TACO BELL

DRIVE THRU RESTAURANT
EXPLORER LITE MEDIUM40

TACO BELL™

3615 BREMEN HIGHWAY
MISHAWAKA, IN 46544

A. ALL WORK SHALL CONFORM TO THE 2015 EDITION OF THE INTERNATIONAL BUILDING CODE, AND ALL OTHER APPLICABLE CODES, STANDARDS, AND REGULATIONS OF THE CITY OF COUNCIL BLUFFS AND COUNTY OF POTTAWATTAMIE.

B. IT IS INTENDED THAT A COMPLETE OCCUPIABLE BUILDING PROJECT IS PROVIDED.

C. THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION (A.I.A. A201 LATEST EDITION) ARE A PART OF THESE CONTRACT DOCUMENTS. A COPY IS ON FILE AT THE ARCHITECT'S OFFICE.

D. DRAWINGS ARE BASED ON A SURVEY, DATED _____ PREPARED BY _____ AND IS INCLUDED IN THESE DOCUMENTS.

E. THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A GEOTECHNICAL INVESTIGATION DATED _____ BY _____. THE REPORT IS PART OF THESE CONTRACT DOCUMENTS, AND THE CONTRACTOR IS RESPONSIBLE FOR CARRYING OUT ITS RECOMMENDATIONS, THOUGH SOME MAY NOT BE SPECIFICALLY DETAILED ON THE PLANS.

F. DO NOT SCALE THESE DRAWINGS. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. ANY DISCREPANCIES IN THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO STARTING WORK.

G. ALL PROPOSED SUBSTITUTIONS SHALL BE APPROVED BY THE YUM BRANDS CONSTRUCTION MANAGER, IN WRITING, PRIOR TO INSTALLATION.

H. RETAIN THE PROJECT GEOTECHNICAL ENGINEER TO PROVIDE OBSERVATION AND TESTING SERVICES DURING THE GRADING (INCLUDING UTILITY TRENCHES) AND FOUNDATION PHASE OF CONSTRUCTION AS RECOMMENDED IN THE GEOTECHNICAL REPORT. ALL TESTING AND INSPECTION REPORTS, INCLUDING FINAL SUMMATION LETTER, SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND OWNER. G.C. SHALL CERTIFY PAD ELEVATION PRIOR TO START OF FOUNDATION WORK.

I. SUBMIT PAY FEES AND OBTAIN ALL PERMITS ASSOCIATED WITH THE PROJECT EXCEPT GENERAL BUILDING PERMIT OR _____ (IF APPLICABLE). THIS INCLUDES, BUT IS NOT LIMITED TO ELECTRICAL, MECHANICAL, PLUMBING, FIRE SPRINKLER, HOOD ANSUL, OR OTHER RELATED FIRE PERMITS, ENCROACHMENT PERMIT, ETC. YUM BRANDS WILL PAY FOR "CONNECTION FEES" ASSOCIATED WITH UTILITY PERMITS. PAY FOR TEMPORARY FACILITIES FEES AS REQUIRED TO COMPLETE THE WORK IN A TIMELY MANNER.

J. PROVIDE EACH SUBCONTRACTOR WITH A COMPLETE AGENCY-PERMITTED DRAWING SET AT TIME OF CONSTRUCTION.

K. ALL ABBREVIATIONS INCLUDED FOLLOW INDUSTRY STANDARDS. CONTACT ARCHITECT IF ANY ABBREVIATIONS ARE NOT CLEAR.

L. GC SHALL SUPPLY AND INSTALL ALL ASPECTS OF THE PROJECT DESCRIBED IN THIS DRAWING SET UNLESS OTHERWISE NOTED. SEE SCOPE OF WORK FOR EXCEPTIONS.

M. GRAPHIC AND WRITTEN INFORMATION ON DRAWINGS SHALL BE COORDINATED WITH ALL TRADES PRIOR TO INSTALLATION.

N. ALL MATERIALS STAGED TO BE USED FOR CONSTRUCTION SHALL BE PROTECTED FROM EXCESSIVE MOISTURE. IF THEY ARE EXPOSED TO MOISTURE THEY SHOULD BE ADEQUATELY DRIED BEFORE ENCAPSULATED INTO THE BUILDING. (GREEN)

O. ALL PAINTS, ADHESIVES, COATINGS AND SEALANTS USED INSIDE THE BUILDING SHALL HAVE A LOW VOC CONTENT. (GREEN)

PROJECT GENERAL NOTES

NAME — ROOM NAME

1 / 4 AX.X 2 / 3 — SHEET NUMBER; ELEVATION NUMBER

8'-4" — CEILING HEIGHT

X / AX.X — BLDG. SECTION LETTER; BLDG. SECTION SHEET

X / AX.X — DETAIL NUMBER; DIRECTION OF DETAIL; DETAIL SHEET

X — REVISION NUMBER

0'-0" ELEV — BLDG. HEIGHT REFERENCE POINT

X / AX.X — ELEV. LETTER; ELEV. SHEET

X — DOOR NUMBER

X — WINDOW NUMBER / DECOR ITEM NUMBER

X — EXTERIOR WALL FINISH NUMBER

X — KEY NOTE NUMBER

X-000 — EQUIPMENT NUMBER

XX — INTERIOR FINISH

X — INTERIOR WALL TYPE

X — INTERIOR ELEVATION DESIGNATION

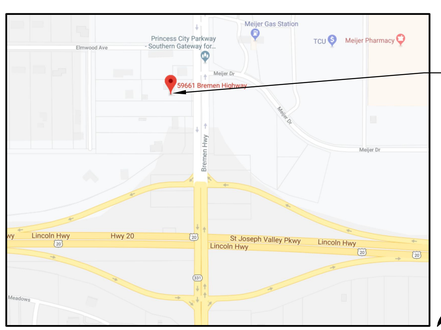
X — SHEAR WALL TYPE (STRUCTURAL)

XXX 000 — EQUIPMENT / FIXTURE NUMBER (M.E.P.)

GREEN — INDICATES SUSTAINABLE DESIGN

REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL SHEETS FOR SPECIFIC SYMBOLS

GENERAL DRAWING SYMBOLS



SITE

VICINITY MAP

LEGAL JURISDICTION:	CITY OF MISHAWAKA
BUILDING CODE:	2014 INDIANA BUILDING CODE / 2012 IBC
MECHANICAL:	2014 INDIANA MECHANICAL CODE / 2012 IMC
PLUMBING:	2012 INDIANA PLUMBING CODE
ELECTRICAL:	2009 INDIANA ELECTRICAL CODE / 2008 NEC
FIRE:	2014 INDIANA FIRE CODE / 2012 IFC
ENERGY:	2010 INDIANA ENERGY CONSERVATION CODE / ASHRAE 90.1-2007
ACCESSIBILITY:	ANSI A117.1-2009

BUILDING AREA:	2,129 S.F. GROSS
SEATING:	42 INTERIOR
OCCUPANCY:	A2
TYPE CONSTRUCTION:	TYPE VB - UNPROTECTED

AREA AND OCCUPANT LOAD

TYPE	AREA	FACTOR	OCCUPANTS
DINING ROOM	650 S.F.	1:15 S.F.	44
QUEING	40 S.F.	1:5 S.F.	8
KITCHEN	887 S.F.	1:200 S.F.	5
OFFICE	73 S.F.	1:100 S.F.	1
ACCESSORY STORAGE	173 S.F.	1:300 S.F.	1
RESTROOMS & PASSAGE	306 S.F.	0	0
TOTAL			59

PROJECT SUMMARY

# PHONE LINES:	25 PAIR CABLE IN 2" CONDUIT
ELECTRIC SERVICE:	600 AMPS / 3 PHASE / 120-208 VOLT
GAS:	785,000 BTUH
WIND SPEED:	90 M.P.H. / EXPOSURE B
EARTHQUAKE ZONE:	D
ROOF LIVE LOAD:	25 P.S.F.

DESIGN CRITERIA

REFER TO CIVIL DRAWINGS.

LEGAL DESCRIPTION

OWNER
Delight TB Indiana LLC
5140 Charlestown Rd., Suite 4
New Albany, NY 47150
Contact: Richard Krumholz

ARCHITECT
ArcVision Inc.
1950 Craig Rd.
St. Louis, MO 63146
Contact: Bob Gassmann
Phone: 314.415.2400

STRUCTURAL ENGINEER
Caruso Turley Scott Structural Engineer
1215 W. Rio Salado Pkwy., Suite 200
Tempe, AZ 85281
Contact: Richard Dahlmann, P.E.
Phone: 480.774.1700

MECH. / ELEC. ENGINEER
ArcVision Inc.
1950 Craig Rd.
St. Louis, MO 63146
Contact: Anthony Richardson
Phone: 314.415.2400

PROJECT DIRECTORY

SEWER
(Company)
(Address)
(City, State, Zip)
Contact:
Phone:

BUILDING DEPARTMENT
City Of Mishawaka Building Department
600 East Third St.
Mishawaka, IN 46544
Phone: 574.258.1625

WATER
(Company)
(Address)
(City, State, Zip)
Contact:
Phone:

ELECTRIC
(Company)
(Address)
(City, State, Zip)
Contact:
Phone:

GAS
(Company)
(Address)
(City, State, Zip)
Contact:
Phone:

UTILITY CONTACTS

	REVISIONS 1	2	3	4	5	6
	08/10/20	00/00/00	00/00/00	00/00/00	00/00/00	00/00/00
TITLE/SITE						
T1.0 TITLE SHEET	X					
G1.0 GREEN CHECKLIST SHEET	X					
G2.0 TRASH ENCLOSURE DETAILS\	X					
G3.0 PEST PROTECTION GUIDE	X					
CIVIL (TB STANDARDS - GENERAL)	X					
CT1.0 SITE DETAILS	X					
CT1.1 SITE DETAILS	X					
CIVIL						
C0.0 COVER SHEET AND INDEX	X					
C1.0 CONSTRUCTION NOTES AND SPECIFICATIONS	X					
C2.0 EXISTING CONDITIONS MAP AND REMOVAL PLAN	X					
C3.0 SITE PLAN	X					
C4.0 UTILITIES PLAN	X					
C5.0 GRADING PLAN	X					
C6.0 DRAINAGE PLAN	X					
C6.1 DRAINAGE PLAN	X					
C7.0 LANDSCAPE PLAN	X					
C7.1 LIGHTING PLAN	X					
C8.0 GENERAL DETAILS	X					
C8.1 UTILITY DETAILS	X					
C8.2 SEWER DETAILS	X					
C9.0 EROSION CONTROL AND DETAILS	X					
C9.1 EROSION CONTROL AND DETAILS	X					
STRUCTURAL						
S1.0 FOUNDATION PLAN	X					
S2.0 WALL FRAMING PLAN	X					
S3.0 ROOF FRAMING PLAN	X					
S4.0 STRUCTURAL DETAILS FOUNDATION	X					
S4.1 STRUCTURAL DETAILS	X					
S4.2 STRUCTURAL DETAILS	X					
S4.3 STRUCTURAL DETAILS	X					
S4.4 STRUCTURAL DETAILS FRAMING	X					
ARCHITECTURAL						
A1.0 FLOOR PLAN						
A1.1 DOOR & WINDOW ELEVATIONS & SCHEDULES	X					
A2.0 EQUIPMENT AND SEATING PLAN	X					
A2.1 EQUIPMENT SCHEDULE	X					
A2.2 EQUIPMENT SCHEDULE	X					
A2.3 EQUIPMENT SCHEDULE	X					
A2.4 EQUIPMENT SCHEDULE	X					
A3.0 ROOF PLAN	X					
A4.0 EXTERIOR ELEVATIONS	X					
A4.1 EXTERIOR ELEVATIONS	X					
A5.0 WALL SECTIONS	X					
A5.1 WALL SECTIONS	X					
A5.2 WALL SECTIONS	X					
A6.0 CONSTRUCTION DETAILS ROOF	X					
A6.1 CONSTRUCTION DETAILS DOOR / WINDOW	X					
A6.2 CONSTRUCTION DETAILS WALL	X					
A6.3 FINISH DETAILS	X					
A6.4 CONSTRUCTION DETAILS INTERIOR	X					
A7.0 FLOOR FINISH PLAN	X					
A7.1 REFLECTED CEILING PLAN	X					
A7.2 FINISH SCHEDULE	X					
A8.0 INTERIOR ELEVATIONS DINING ROOM	X					
A8.1 INTERIOR ELEV. ENLARGED RESTROOM & OFFICE PLAN	X					
A8.2 INTERIOR ELEVATIONS KITCHEN	X					
A8.3 INTERIOR ELEVATIONS KITCHEN	X					
ACCESSIBILITY						
ADA1.0 ACCESSIBILITY REQUIREMENTS	X					
ADA1.1 ACCESSIBILITY REQUIREMENTS	X					
MECHANICAL						
M1.0 MECHANICAL SCHEDULES AND NOTES	X					
M2.0 DUCT AND DIFFUSER PLAN	X					
M3.0 HOOD DRAWINGS PLANS AND SECTIONS	X					
M4.0 MECHANICAL AND HOOD DETAILS	X					
M5.0 INSTALLATION, START-UP, PRE-COMM, CHECK LIST	X					
MP1.0 MP ROOF PLAN	X					
PLUMBING						
P1.0 PLUMBING SCHEDULES AND NOTES	X					
P2.0 WASTE AND VENT PLAN	X					
P3.0 WATER AND GAS PLAN	X					
P4.0 PLUMBING ROUGH-IN PLAN	X					
P5.0 RISER DIAGRAMS	X					
P6.0 PLUMBING DETAILS	X					
ELECTRICAL						
E1.0 SITE ELECTRICAL PLAN	X					
E1.1 SITE PHOTOMETRIC PLAN	X					
E1.2 SITE LIGHTING SPECS	X					
E2.0 ONE LINE DIAGRAM AND LEGEND	X					
E2.1 PANEL SCHEDULES AND LOAD SUMMARY	X					
E2.2 EQUIPMENT SCHEDULES	X					
E3.0 POWER FLOOR PLAN	X					
E3.1 ENLARGED POWER PLAN AND DETAILS	X					
E3.2 POWER ROOF PLAN	X					
E4.0 LIGHTING PLAN AND SCHEDULE	X					
E5.0 COMMUNICATIONS PLAN	X					
E6.0 ELECTRICAL DETAILS	X					
E7.0 ELECTRICAL DETAILS	X					
SPECIFICATIONS						
IN BOOK FORMAT						

SHEET INDEX

ARCVISION INCORPORATED
ARCHITECTURE • ENGINEERING • STORE PLANNING
SAINT LOUIS / DALLAS / LAS VEGAS / ORLANDO
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

RICK J. KOCH — No. 00920072 — STATE OF INDIANA — ARCHITECT
8/10/20

1 OWN/STATE COMMENTS 08.10.20

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

TACO BELL
1 3615 BREMEN HWY MISHAWAKA, IN 46544

EXPLORER LITE
MEDIUM40

TITLE SHEET

T1.0

6/29/20

CHECK LIST NUMBER EXPLANATION:

The checklist numbers below align with the credit numbers in the YUM Blueline system website. For further detail go to the following web address. Note: Follow the "Required" and "Optional" designation on this sheet rather than the ones on the YUMBlueline website. The system has been setup so that if you do the "Required" items on this list your restaurant will meet the YUMBlueline requirements.

1. Go to the reference version of the YUM Blueline website: "**www.yumblueline.com**"
2. In the "User" section choose "**General**" from the pull down menu
3. In the "Password" section type in "**J212[*kl&!**"

FEASIBLITY | DESIGN | CONSTRUCTION | COMMISSIONING

P = Indicates that scope is already in the prototype drawings

* = Indicates "optional" item

FORMALDEHYDE LIMITS
MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBER BOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXIC CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333.
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF $\frac{5}{16}$"

VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS (Cont.)
Grams of VOC per liter of coating, less water & less exempt compounds

SPECIALTY COATINGS	CURRENT VOC LIMIT
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDER-COATINGS	100
STAINS	250
STONE CONSOLIDANTS	450
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. Grams of VOC per liter of liter of coating, including water & exempt compounds
2. The specified limits remain in effect unless revised limits are listed in subsequent columns in the table.
3. Values in this table are derived from those specified by the California arei resource board, architectural coatings suggested control measure, feb 1, 2008. more information is available from the air resources board.

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NON-FLAT COATINGS	100
NON-FLAT HIGH GLOSS COATINGS	150

SPECIALTY COATINGS	CURRENT VOC LIMIT
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF COATINGS PRIMER	350
BOND BREAKER	350
CONCRETE CURING COMPOUNDS	350
CONCRETE / MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
HIGH TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS	120
MAGNESITE CONCRETE COATINGS	450
MASTIC TEXTURE COATINGS	100
PRETREATMENT WASH PRIMER	350
PRIMERS, SEALERS AND UNDERCOATS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250

43.1 CONTROLLED BUILDING MATERIAL (Required)
A. If fluorescent lamps are used they shall not exceed 80 picograms per lumen hour.
B. Maintain the Taco Bell lamps policy of only using LED lamps in all building, site and sign lighting.

45.1 THERMAL COMFORT (Required)
Insure that the HVAC system provides the following comfort conditions, on average:

Store Occupation	Mode	Temp Setpoints	Max Relative Humidity
Occupied	Dining Cooling	73-78 F	60%
	Kitchen Cooling	68-73 F	
	Dining Heating	68-73 F	60%
	Kitchen Heating	66-71 F	
Unoccupied	Cooling (minimum)	80 F or off	
	Heating (maximum)	60 F	

46.1 THERMAL VERIFICATION (Required)
A. At the 11 month warrantee the CM shall administer the "Thermal Comfort Verification Survey" with a response rate of 75% minimum.
B. If 20% or more of the responders are dissatisfied then corrective actions shall take corrective action until less than 20% are dissatisfied.
C. If corrective action is required go back and insure that the store meets #28 Thermal Comfort standards.

48.1 LEED TEAM MEMBER (Required)
Each consultant shall have a LEED AP member on each projects site specific team.

49.1 COMMISSIONING (Required)
Commissioning requires understanding the owners design intent prior to starting site specific design so they can insure that their design meets with the owner's requirements. Commissioning also is also intended to insure that the contractor executes the design per the owner's requirements.

A. The consultant should modify the Owner's Prototype Requirements with the site specific information and insure that the site specific design meets or exceeds the Owner's Requirements prior to starting design.
B. The consultant, general contractor and CM should use Sheet G1 as the checklist to insure the site specific project results meets or exceeds the Owner's Requirements.

FEASIBLITY | DESIGN | CONSTRUCTION | COMMISSIONING

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37.1 RECYLING (Required)
A. Provide dedicated recycling space in the dining room, kitchen and site. Recycling should accommodate plastic, paper and oil.
B. See the "Trash Enclosure Standards" posted on the Plans.YUM.com. Unless approved the "Large" version should be used.

37.2 COOKING OIL RECYCLING (Required)
Collect cooking oil and provide to a third party vendor for recycling.

37.3 CARDBOARD RECYCLING (Optional)
Collect used corrugated cardboard and provide to a third party vendor for recycling.

38. AIR VENTILATION (Required)
1. Provide air ventilation and exhaust rates per YUM BLUELINE
2. Provide fresh air per YUM BLUELINE

39.1 NO SMOKING (Required)
A. Maintain a policy of not smoking within the restaurant
B. Prohibit smoking within 25 feet of the restaurant

41.1 PROTECTION OF MATERIALS (Required)
GC to provide a IAQ management plan with bid. Start with the prototype template and modify as required for site specific conditions.
A. Protect HVAC system
B. Implement pollution source control measures
C. Protect stored materials
D. Protect installed materials
E. Maintain construction site housekeeping

42. LOW EMITTING MATERIALS (Required)
Finish materials shall comply with this section:

Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution or air quality management district rules apply:
1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with SCAQMD.

Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in SCAQMD.

Aerosol Paints and Coatings. Aerosol paints and coatings shall meet SCAQMD requirements.

Verification. The General Contractor shall provided documentation to the CM. Documentation shall include, but is not limited to, the following:
1. Manufacturer's product specification.
2. Field verification of on-site product containers.

ADHESIVE VOC LIMITS

ARCHITECTURAL ADHEASIVE APPLICATIONS	CURRENT VOC LIMIT
CERAMIC TILE	65
DRYWALL PANEL & COVE BASE	50
MULTI-PURPOSE	70
SINGLE PLY ROOFING	250

SPECIALTY APPLICATIONS	CURRENT VOC LIMIT
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR WELDING	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250

SUBSTRATE SPECIFIC APPLICATIONS	CURRENT VOC LIMIT
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIALS (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

SEALANT VOC LIMITS
(less water and less exempt compounds in grams per liter)

SEALANT	CURRENT LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NON-MEMBRANE ROOF	300
ROADWAY	250
SINGLE PLY ROOF MEMBRANE	450
OTHER	420

SEALANT PRIMER	CURRENT LIMIT
ARCHITECTURAL	
NON-POROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

FEASIBLITY | DESIGN | CONSTRUCTION | COMMISSIONING

P = Indicates that scope is already in the prototype drawings

* = Indicates "optional" item

1.3 CONTAMINATED SITES (Optional)
If you are developing a site such as a gas station that requires remedial work check this box.

1.4 LOCATION COMMITMENT (Required)
Commit to stay in the same location for 10 years or more.

1.5 PAY UTILITIES DIRECTLY (Required)
If site is leased insure that Taco Bell will pay the utilities directly rather than allowing the landlord to pay them. This will allow Taco Bell to track utility expenses easily.

2.2 PROXIMITY TO BUS STOP (Optional)
Site is within ¼ a mile of a bus stop.

3.0 BICYCLE FACILITIES (Required)
Provide dedicated bicycle lockable parking for a minimum of two bicycles. Provide changing area and lockable storage for a minimum of two people. Single occupancy toilet rooms will suffice as a changing area.

5.1 PARKING (Optional)
Do not exceed parking spaces required by local zoning. See Credit 5
Provide 5% preferred parking for carpool.

7.2 WHITE ROOF (Required)
Provide white PVC single membrane roof material.

9.0 CONSTRUCTION POLLUTION CONTROL (Required)
A. Construction pollution control plan.
B. Silt fencing
C. Site vehicular access
D. Wheel washing
E. Covered loads
F. Excavated soil storage
G. Storm water drain, trench and pit drain protection
H. Temporary diversion ditches and berms
I. Dust control
J. Exposed slope erosion control
K. Weekly contractor inspection

10.2 Building Water (Required)
Provide plumbing fixtures as specified in the prototype drawings, specifications and equipment model.

11.2 Process Water (Required)
All water using equipment specified in the prototype equipment schedule shall be used for all ground-up restaurants.

12.1 Landscape Design (Required)
All landscape designs for new ground-up restaurants shall follow the Landscape Standards posted on the Plans.YUM.com website.

13.1 Irrigation Water (Required) See landscape specifications
A. Programmable irrigation controller.
B. Separate irrigation zones
C. Program maximum irrigation timing
D. High-efficiency irrigation sprinkler heads
E. Rain sensor

15.3 Interior Lighting (Required)
The current lighting specifications shall be used for all ground-up prototype restaurants.

16.2 Exterior Lighting (Required)
The current lighting specifications shall be used for all ground-up prototype restaurants.

17.2 Sign Illumination (Required)
The current signage specifications shall be used for all ground-up prototype restaurants.

18.1 Exhaust Hoods (Required)
The current 6'-4" back shelf hood design and equipment placement as shown in the ground-up prototype restaurant shall be used.

19.1 LICENSED HVAC ENGINEER (Required)
Use a licensed HVAC engineer for system site adaptation.

19.2 OPTIMIZE HVAC DESIGN (Required)
Optimize HVAC design system per YUM Blueline Standards

20.0 HVAC EFFICIENCY (Required)
Use the EFLEX RTU for the kitchen and the Partial VAV RTU for the dining room and install per the current prototype ground-up restaurant.

21.0 ECONOMIZER PERFORMANCE (Required)
Use an economizer provided with the EFLEX and Partial VAV RTUs by Trane.

22.1. Hot Water Efficiency (Required)
Use the water heater specified in the Taco Bell prototype.

23.1 REFRIGERANTS (Required)
Do not used banned refrigerants. If you use any modern RTU you will not use banned refrigerants

24.1 REFRIGERATION (Required)
A. Use the current specified walk-in cooler/freezer. See Credit 24
B. Use the current specified reach-in freezer. See Credit 24
C. Use the current specified ice makers. See Credit 24

25.1 COOKING & WASHING EQUIPMENT (Required)
A. Use the current specified fryer in the prototype.
B. Use the current specified 3-comp sinkin the prototype.

28.1 BASIC LIGHTING & THERMAL CONTROLS (Required)
A. Provide programable thermostatspecified in the prototype
B. Provide temperature sensor locations and specifications on plan
C. Insure proper operation of ventilation equiment operations
D. Provide lighting controls for interior zones
E. Provide lighting controls for exterior zones.

28.3 Occupancy Sensors (Optional)
Provide ultrasonic/infared) occupancy sensors for 25% or move of interior lighting.

33.1 Recycled Content (Required)
Use materials that have a minimum of 10% recycled materials. (Note: Getting the calculations in process)

36.1 Construction Waste Management (Required)
A. The contractor shall recycle a minimum of 50% of all construction waste and provide records per YUM Blueline. 75% is preferred.
B. The general contractor shall provide a construction waste management plan to the construction manager with their bid submittal. They can use the starter form posted on the Plans.YUM.com website in the Green Playbook section.

ARCVISION INCORPORATED
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www.arcv.com

RICK J. DICKSON
No. 00920072
STATE OF INDIANA
ARCHITECT
8/10/20

⚠1 OWN/STATE COMMENTS 08.10.20
⚠2
⚠3
⚠4
⚠5

CONTRACT DATE: 8/26/19
BUILDING TYPE: EXP. LITE MED40
PLAN VERSION: MARCH 2018
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 314007
STORE NUMBER: TBD

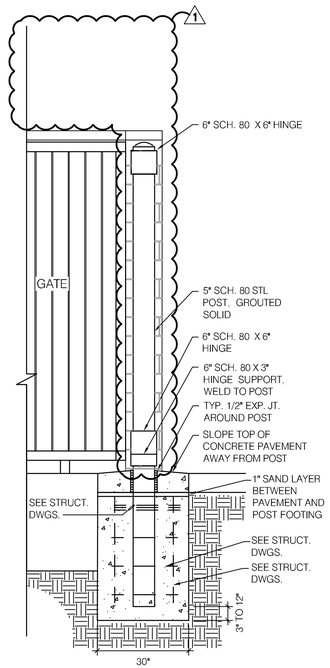
TACO BELL
1
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

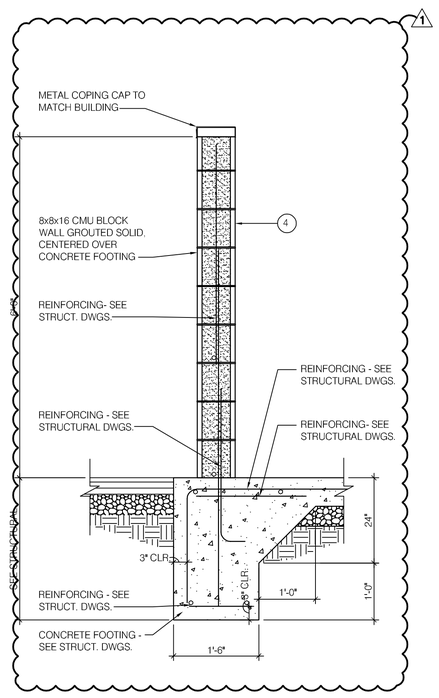
YUM GREEN CHECKLIST

G1.0

6/29/20



GATE COLUMN FOOTING N.T.S. | **F**



WALL SECTION N.T.S. | **D**

GATE HARDWARE: ALL HARDWARE AND ACCESSORIES SHALL BE HEAVY GALVANIZED.

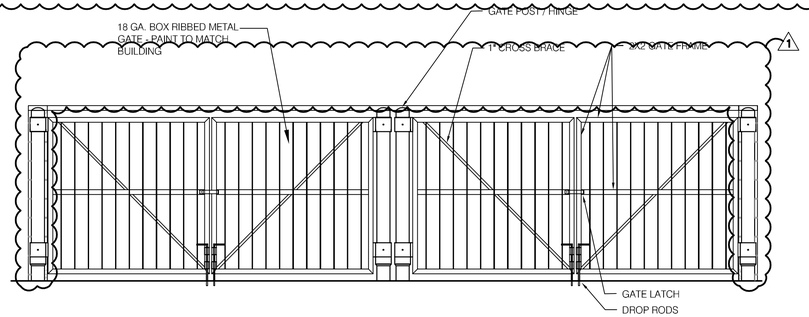
GATE STOP: MUSHROOM TYPE OR FLUSH PLATE WITH ANCHORS SET IN CONCRETE TO ENGAGE THE CENTER DROP ROD OR PLUNGER BAR.

GATE NOTES: (4) EQUAL WIDE x 6-0" HIGH MTL. GATES, TYPE 'B' 1 1/2" DECKING, 22GA. W/ T.S. 1 X .1875 BAR CROSS BRACING WELD AND GRIND SMOOTH ALL CONNECTIONS, TYP. PRIME AND PAINT ALL STEEL COMPONENTS.

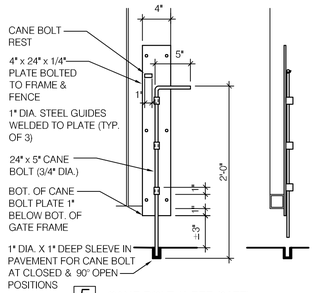
ENCLOSURE NOTES N.T.S. | **I**

SYMBOL	AREA	MANUFACTURER	COLOR
1	GATE FRAME COLOR	SHERWIN WILLIAMS	SW 7045 "INTELLECTUAL GRAY"
2	PIPE BOLLARDS	SHERWIN WILLIAMS	CAUTION YELLOW
3	NOT USED		
4	CMU	SHERWIN WILLIAMS	SW 7045 "INTELLECTUAL GRAY"
5	METAL GATES	SHERWIN WILLIAMS	SW 7045 "INTELLECTUAL GRAY"

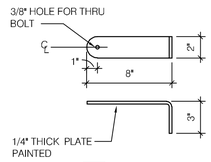
SCHEDULE N.T.S. | **G**



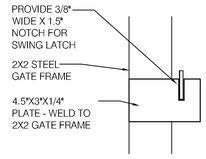
FRONT ELEVATION N.T.S. | **E**



5 CANE BOLT (1 PER GATE)

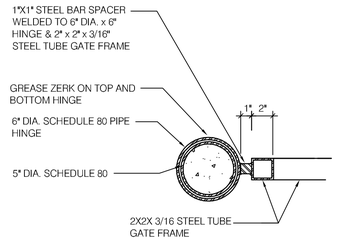


4 GATE HANDLE

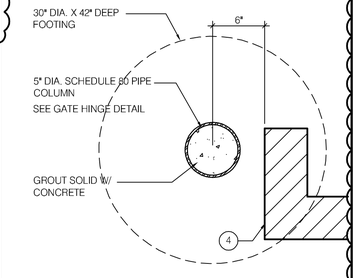


NOTES:
1. MOUNT 48" ABOVE TOP OF PAVEMENT.
2. ALIGN STOP PLATE WITH SWING LATCH.

3 STOP PLATE SECTION

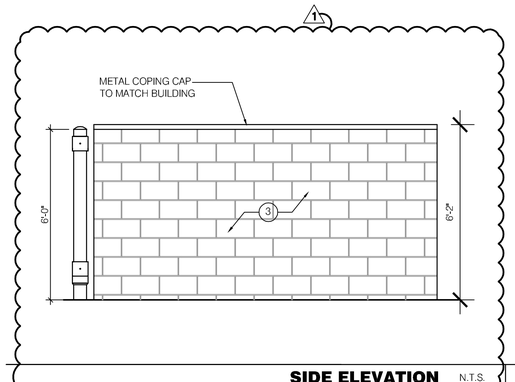


2 GATE HINGE DETAIL

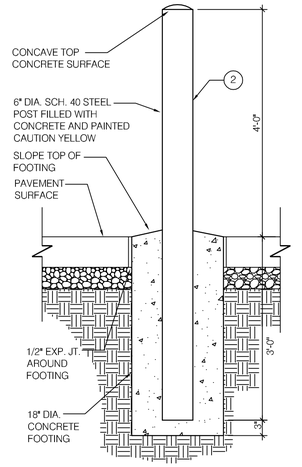


1 JAMB DETAIL

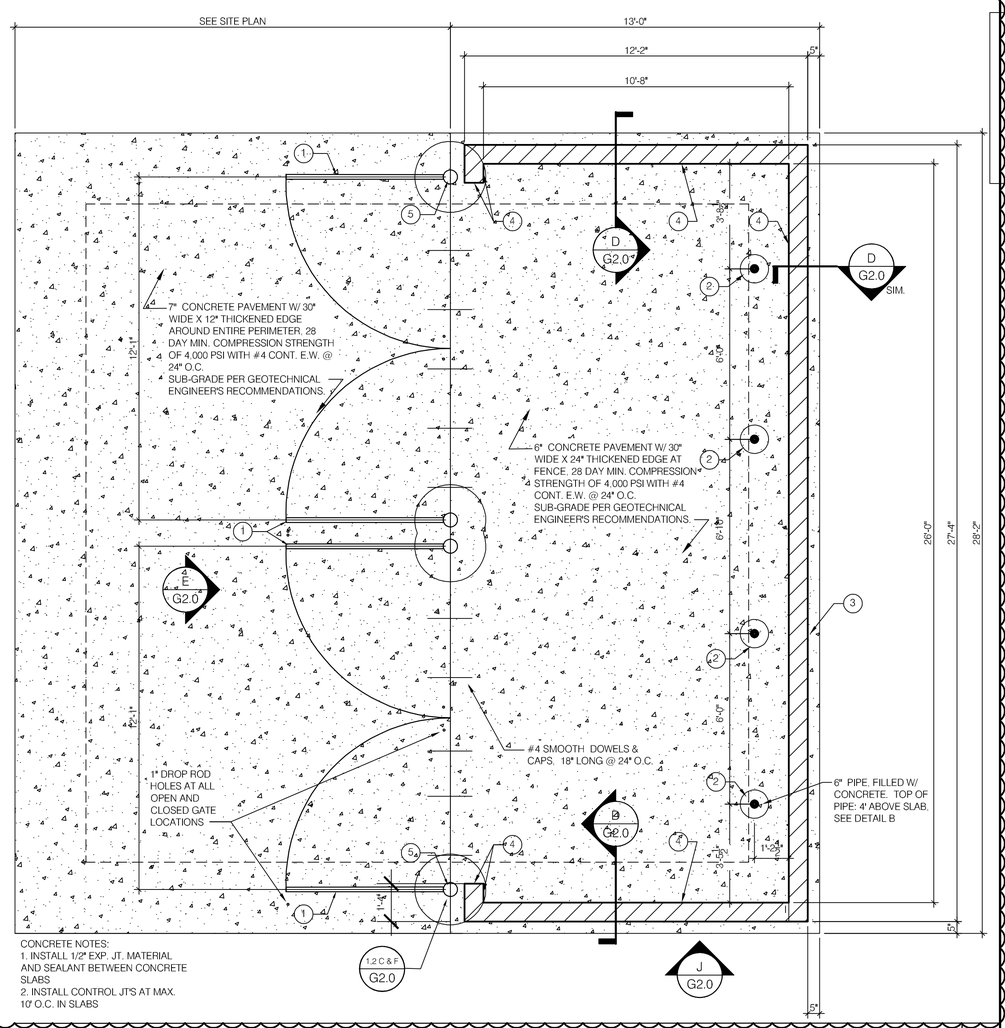
GATE DETAILS VARIES | **C**



SIDE ELEVATION N.T.S. | **J**



BOLLARD DETAIL 1/4" = 1'-0" | **B**



CONCRETE NOTES:
1. INSTALL 1/2" EXP. JT. MATERIAL AND SEALANT BETWEEN CONCRETE SLABS
2. INSTALL CONTROL JT'S AT MAX. 10' O.C. IN SLABS

DUMPSTER PLAN N.T.S. | **A**

ARCVISION INCORPORATED
ARCHITECTURE • ENGINEERING • STORE PLANNING
SAINT LOUIS / DALLAS / LAS VEGAS / ORLANDO
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PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

PATRICK J. COLLINS No. 00920072 STATE OF INDIANA ARCHITECT
8/10/20

⚠1	OWN/STATE COMMENTS 08.10.20
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△	
△	
△	

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MEDIUM40

TRASH ENCLOSURE DETAILS

G2.0

6/29/20

INTEGRATED PEST PREVENTION (IPP) CAN BE DEFINED AS, "THE ART AND SCIENCE OF PREVENTING THE INTRODUCTION OF UNWANTED ORGANISMS INTO COMPLEX MICROENVIRONMENTS AND, THE ASSOCIATED MITIGATION EFFORTS REQUIRED WHEN PREVENTION FAILS". IPP ENCOMPASSES THE CONCEPTS, STRATEGIES AND TACTICS NEEDED TO EFFECTIVELY PROTECT HUMAN HEALTH AND PROPERTY FROM THE PRESENCE OF UNWANTED ORGANISMS.

EVERY PEST, WHETHER MICROBIOLOGICAL, INVERTEBRATE OR MAMMALIAN NEED A FOOD SOURCE, WATER, SAFE HARBORAGE (SUITABLE ENVIRONMENT – TEMPERATURE, HUMIDITY, HIDING PLACES). THEY ALSO NEED A WAY INTO THE RESTAURANT. IN MOST CASES, CONTROLLING EVEN 1 OF THE REQUIREMENTS CAN PREVENT AN INTRODUCTION FROM BECOMING AN INFESTATION (ARTHROPODS OR VERTEBRATES) OR THE GROWTH OF PATHOGENIC ORGANISMS (BACTERIA/FUNGI ETC.). WHILE WE CANNOT ELIMINATE ALL INTRODUCTIONS FROM EMPLOYEES, CUSTOMERS AND DELIVERIES, WE CAN VIRTUALLY ELIMINATE INTRUSIONS DUE TO CONSTRUCTION AND DESIGN FAULTS AND, OPERATIONAL BEHAVIOR.

IN GENERAL, WHEN YOU THINK ABOUT EXCLUDING PEST FROM A BUILDING, YOU CAN THINK OF THE PESTS AS WATER. WE DON'T WANT UNNECESSARY WATER GETTING INTO THE BUILDING SO WE ADD APPROPRIATE BARRIERS. FROM VAPOR BARRIERS TO CONCRETE CURBS, WE BLOCK OR REDIRECT WATER. SAME WITH PESTS; FOR INSECTS WE CAN USE MATERIALS LIKE ELASTOMERIC SEALANTS AND HARD SURFACES TO PREVENT INTRUSION, FOR RODENTS, THE SAME CONCEPTS APPLY BUT THE BUILDING MATERIALS/PRACTICES HAD TO BE MORE ROBUST (CEMENTITIOUS MATERIALS WITH METAL REINFORCEMENT).

FOR ALL ASPECTS OF PEST PREVENTION ACTIVITIES, WE ARE MOVING TOWARDS SEASONALLY AND GEOGRAPHICALLY ATTENUATED (SAGA) © AND, ENVIRONMENTALLY AND SOCIALLY RESPONSIBLE PEST PREVENTION PROGRAMMING © TO ACHIEVE MANAGEABLE, SITE-SPECIFIC SCOPES OF WORK.

GUIDING PRINCIPLE 1 – SITE SELECTION:

YOU HAVE TO TRY TO LOOK AT EVERY PHYSICAL ASPECT OF THE BUILDING AND ITS ENVIRONMENT. TO THIS END, IT IS PREFERABLE TO ESTABLISH A RELATIONSHIP WITH A LOCAL MEMBER OF YOUR PEST PREVENTION PROVIDER'S MANAGEMENT TEAM AND ASK THEM TO GIVE SOME GENERAL GUIDANCE DURING THE SITE SELECTION PROCESS. THEY MAY BE AWARE OF NEIGHBORHOOD LEVEL PEST PREVENTION CONCERNS AND HAVING THEM INVOLVED FROM THE BEGINNING ALLOWS THEM TO PROPERLY CREATE/MODIFY THE PRE AND POST CONSTRUCTION SERVICE PLANS. FROM BOTH GLOBAL AND LOCAL PERSPECTIVES, LOCATION CHARACTERISTICS ARE CLEARLY THE DRIVING FORCE IN POTENTIALLY PREDICTABLE PEST PROBLEMS. MUCH OF THE RELEVANT INFORMATION NEEDED ABOUT ANY PARTICULAR STORE IS ALREADY IN TACO BELL'S HANDS IN THE FORM OF PEST ACTIVITY DATA. ADDITIONAL INFORMATION CAN BE GATHERED FROM LOCAL EXPERTS (IF AVAILABLE) OR ASSESSED BY TACO BELL CORPORATE QA/FOOD SAFETY STAFF.

QA/FOOD SAFETY RESOURCES ARE AVAILABLE TO COORDINATE OR PERFORM ASSESSMENTS AS NEEDED.

THE CRITICAL FACTORS, IRRESPECTIVE OF BROAD GEOGRAPHICAL LOCATION, WOULD BE; STAND ALONE VS. MALL LOCATION, COMBINATION FACILITY*, THE AGE OF THE FACILITY**, AND GENERAL NEIGHBORHOOD CONDITIONS.

FACTORS THAT WE CANNOT CONTROL, BUT CAN ANTICIPATE/MITIGATE:

a. WEATHER / CLIMACTIC ZONE

b. LOCALIZED SPECIAL PEST ISSUES (PAST PEST HISTORY)

c. BUILDING LOCATION – PARTICULARLY A CONCERN IN URBAN AREAS. LITTER, AGING UTILITIES, SUBWAYS AND FOOT TRAFFIC LEVELS MUST BE ACCOUNTED FOR.

d. BUILDING AGE

e. BUILDING PLACEMENT

f. NEIGHBORHOOD (PHYSICAL AND SOCIOECONOMIC) CONDITIONS

* COMBINATION FACILITY CAN MEAN AN INLINE LOCATION OR MULTI-USE FACILITY (FOR EXAMPLE, ADDING A BAR TO A RESTAURANT OR PLACING A RESTAURANT IN A TRAVEL CENTER ADDS COMPLEXITIES DUE TO INCREASED PEST OPPORTUNITIES.)
**THE AGE OF THE BUILDING INTRODUCES ISSUES LIKE: CONSTRUCTION MATERIALS AND BUILDING STANDARDS.

GUIDING PRINCIPLE 2 – BUILDING DESIGNED FOR EXCLUSION, INSPECTION, CLEANING AND TREATMENT: USING PROPER TECHNIQUES TO KEEP PESTS OUT IS EASY ENOUGH BUT TIME AND USE EVENTUALLY TAKE THEIR TOLL ON THE ENTIRE STRUCTURE. THE RESULTS CAN BE RAPID DETERIORATION AND PEST INTRUSION/INFESTATION. 1. USE HIGH QUALITY CONSTRUCTION MATERIALS TO PREVENT THE INTRUSION OF MOISTURE AND PESTS (SPECIFICS AVAILABLE IF REQUIRED). MOISTURE INVITES THE FULL SPECTRUM OF PESTS TO ENTER AND BECOME ESTABLISHED IN THE BUILDING, RESULTING IN A THREAT TO PUBLIC HEALTH AND DAMAGE TO THE ASSET. THIS APPLIES TO MOISTURE WITHIN THE BUILDING AS WELL AS ENVIRONMENTAL MOISTURE. COUNTERS, BEVERAGE MACHINES, DRAINS, SINKS ALL HAVE TO BE WELL SEALED TO PREVENT MOISTURE FROM PENETRATING INTO CRACKS, CREVICES OR VOIDS.

1. THE PESTS OF PRIMARY FOOD SAFETY/PUBLIC HEALTH CONCERN ARE LARGELY CRYPTIC IN NATURE, THEY EITHER LIKE TO HIDE (RODENTS), MUST HIDE (COCKROACHES) OR SIMPLY REQUIRE QUIET, DARK, OUT OF THE WAY PLACES TO BREED (COCKROACHES AND FLIES). RESTAURANT STAFF AND PEST PREVENTION PARTNERS MUST BE ABLE TO MOVE EQUIPMENT AROUND TO SEE WHAT IS HAPPENING.

2. THE FLOORS, DRAINS AND WALLS HAVE TO BE DURABLE AND EASILY CLEANED A. AVOID TILE WHEN POSSIBLE (GROUT LINES) I. WHEN TILE MUST BE USED, EPOXY GROUT IS PREFERRED B. DRAINS MUST BE POSITIONED TO BE EASILY INSPECTED AND CLEANED C. EQUIPMENT MUST BE EASY TO MOVE TO CLEAN THE FLOOR D. EQUIPMENT MUST BE DESIGNED TO BE EASILY CLEANED.

3. TREAT WALL VOIDS AND DIFFICULT TO INSPECT STRUCTURAL AREAS WITH BORACARE (DISODIUM OCTABORATE TETRAHYDRATE) TO ASSIST IN THE PREVENTION OF ARTHROPOD INFESTATIONS.

4. TREAT AREAS PRONE TO INFECTION WITH MOLD-CARE (DIDECYL DIMETHYL AMMONIUM CHLORIDE).

5. BASEMENTS A. FOLLOW THE SAME EXCLUSION PRINCIPLES IN GENERAL TERMS B. ADDITIONAL PEST DEVICES MUST BE ADDED/ACCOMMODATED C. AIRFLOW IS CRITICAL. SINCE FOOD RELATED ITEMS WILL BE STORED IN THESE AREA, WE MUST NOT ALLOW MOISTURE TO FOSTER THE DEVELOPMENT OF MICROORGANISMS (BOTH PATHOGENIC AND NON-PATHOGENIC).

6. EXTERIOR DESIGN TO ELIMINATE INTRODUCTION POINTS AND HARBORAGE AREAS A. NO TREES OVERHEAD OR TOUCHING THE BUILDING B. NO SHRUBS, BUSHES, VINES TOUCHING OF IN CLOSE PROXIMITY TO THE BUILDING C. STRATEGICALLY PLACE WASTE (COMPOST/RECYCLING/LANDFILL) RECEPTACLES AWAY FROM THE BUILDING WHEREVER POSSIBLE AND HAVE THEM IN WELL-LIT AREAS (IF APPROPRIATE).

7. LIGHTING SHOULD BE INDIRECT WHENEVER POSSIBLE TO PREVENT NIGHT FLIERS FROM BEING DRAWN TO THE BUILDING.

8. AVOID SEMI-ENCLOSED (PARTIAL SOFFIT) AREAS WHERE BIRDS AND MAMMALS CAN HARBOR.

(APPENDIX FOLLOWS)

APPENDIX

PEST MANAGEMENT, IN A STANDALONE SETTING IS ACTUALLY QUITE SIMPLE WHEN PROPERLY EXECUTED BY ALL PARTICIPANTS. AS IT RELATES TO BUILDING DESIGN AND CONSTRUCTION, THERE ARE JUST A FEW PRINCIPLES THAT IF ADDRESSED WITH GREATLY DIMINISH PEST ISSUES.

1. DON'T PROVIDE ANY UNNECESSARY ATTRACTANTS WHEN POSSIBLE AND, MITIGATE WHEN UNAVOIDABLE. 2. IF THE BUILDING IS TIGHT, THEN PESTS CANNOT COME IN EASILY. 3. MAKE SURE THAT THERE IS ENOUGH AIRFLOW INTO THE BUILDING FROM ABOVE TO FACILITATE POSITIVE PRESSURE AT THE DOORS. 4. IF THE PESTS CAN'T GET INTO THE BUILDING, THERE WON'T BE AN INTRODUCTION. 5. IF THEY DO GET IN THE BUILDING BUT, HAVE NOWHERE TO HIDE, THERE WON'T BE AN INFESTATION. A. EQUIPMENT, WHEN POSSIBLE SHOULD BE TIGHTLY SEALED. I. EXAMPLE, MANY TIMES, STAINLESS "CURTAINS" ARE PLACED TO SHIELD THE UNDERSIDE OF EQUIPMENT FROM VIEW. THIS WILL NOT KEEP ANYTHING OUT. B. WHEN NOT POSSIBLE, MAKE IT EASY TO OPEN FOR INSPECTION AND TREATMENT. ALSO, CONSIDER THE NEED FOR MONITORING DEVICES NEAR ENTRY POINTS. I. EXAMPLE, IF A PIECE OF EQUIPMENT MUST HAVE A HOLE AT THE BOTTOM, MAKE SURE THAT A DEVICE CAN BE PLACED APPROPRIATELY IN OR UNDER IT. KEEP VISUAL INSPECTION IN MIND TOO. C. AVOID DIFFICULT TO CLEAN EQUIPMENT. IF IT ISN'T EASY, PEOPLE WON'T CLEAN IT. D. IN SUMMARY, IF YOU CAN, KEEP THEM OUT. IF YOU CAN'T MAKE SURE THE EQUIPMENT CAN BE EASILY CLEANED AND INSPECTED.

I. EXTERIOR SANITARY DESIGN

A. BUILDING PERIMETER:

- THERE ARE NO OUTSIDE PITS OR DEPRESSIONS. THE PERIMETER SLOPES AWAY FROM THE BUILDING. • A 2-FOOT GRAVEL BARRIER IS PRESENT WITH DRAINS IN CRITICAL DRAINAGE AREAS. • EXPANSION JOINTS AROUND PERIMETER ARE FILLED WITH CORRECT JOINT FILLER. • THERE ARE NO OUTSIDE STORAGE AREAS THAT COULD PROVIDE HARBORAGE FOR PESTS. • NO CHAIN LINK FENCES ARE PRESENT NEAR THE FACILITY. • BUILDING DESIGN ALLOWS FOR EASY WEED ACCESS/REMOVAL AND LAWN MAINTENANCE.
- EXTERIOR SMOKING AREA IS PROVIDED FOR EMPLOYEES SUCH THAT THE DEBRIS FOUND IN THESE AREAS DOES NOT ATTRACT PESTS INTO THE FACILITY. • BUILDING DESIGN DETERS BIRDS FROM NESTING OR LOAFING.

B. UTILITY LINES:

- UTILITY LINES, ELECTRICAL CONDUITS, AND PLUMBING ENTRANCES INTO THE BUILDING ARE COMPLETELY SEALED, PREVENTING PEST ENTRY. • PIPES OR WIRING ARE NOT GROUPED INTO GANGS AND ARE NOT HOUSED IN METAL TUBES. • UTILITY SYSTEMS ARE EASILY ACCESSIBLE AND EASILY OPENED FOR THOROUGH CLEANING. • RODENTS ARE DETERRED FROM CLIMBING PIPES ON THE BUILDING EXTERIOR BY FITTED METAL RAT GUARDS. GUARDS ARE MADE OF 26-GAUGE SHEET METAL, FITTED CLOSE TO THE WALL AT THE REAR, AND PROJECTING 12 INCHES OUTWARD FROM THE PIPE. • OUTSIDE VERTICAL PIPES ARE COATED WITH GLOSSY PAINT TO PREVENT RODENTS FROM CLIMBING THEM. • WHERE POSSIBLE, UTILITY LINES ARE TRENCHED, RATHER THAN SUSPENDED.

C. PARKING AND ROADWAYS: • ALL PARKING AND TRAFFIC AREAS ARE PAVED. • DRAINS ARE PLACED IN ALL DOCK AND DUMPSTER AREAS. • DRAINS ARE FREE OF DEBRIS.

D. LANDSCAPING: • PERIMETER FOLIAGE CLEARS BUILDING BY 18" MINIMUM AND NOT TALLER THAN 24 INCHES. • TREES ARE AT LEAST 30 FEET AWAY FROM BUILDING PERIMETER. • GROUND COVER DOES NOT INCLUDE PINE STRAW OR THATCHED GRASS. • GROUND COVER SUCH AS GARDEN STONES AND SPARSE LIVE PLANT COVER ARE USED.

E. EXTERIOR LIGHTING:

- BUILDING PERIMETER IS WELL LIGHTED. • EXTERIOR LIGHTS ARE LOCATED AT LEAST 30-40 FEET AWAY FROM EXTERIOR DOORS, SO THAT THEY DO NOT ATTRACT FLYING INSECTS INTO THE BUILDING. (IF FEASIBLE) • OUTSIDE LIGHTS ARE SHIELDED TO SHINE DOWN ONTO THE BUILDING PERIMETER AND DO NOT SHINE OUT/AWAY FROM THE FACILITY. SHADOW BOX FIXTURES PREFERRED. • BULBS LESS ATTRACTIVE TO INSECTS SUCH AS HIGH PRESSURE SODIUM ARE USED. • INSECT LIGHT TRAPS ARE LOCATED SUCH THAT THEY DO NOT DRAW INSECTS INTO THE FACILITY.

F. SANITARY DUMPSTER AND TRASH STORAGE:

- DRIVE AND STORAGE AREA ARE PAVED.
- TRASH STORAGE IS LOCATED AWAY FROM INCOMING GOODS AND ISOLATED FROM FACILITY. • TRASH STORAGE IS LOCATED IN A WALLED SPACE, WITH OPEN AREA AND MINIMAL AVAILABLE HARBORAGE FOR RODENTS, BIRDS, OR INSECTS. • TRASH STORAGE IS LOCATED DOWNWIND (PREVAILING WINDS) WHEN POSSIBLE. • TRASH STORAGE IS SEPARATED FROM FACILITY BY FIRE-RATED SEPARATION WALLS. • HOT WATER RINSE IS AVAILABLE AND PROPER DRAIN(S) ARE PRESENT. • HAND-SANITIZER PROVIDED FOR RE-ENTRY INTO THE FACILITY. • SANITATION DUMPSTER IS ADEQUATE FOR VOLUME, HAS A RAIN COVER, AND IS SEALED WITH NO LEAKS. • SIGN (FOR EMPLOYEES) IS PRESENT IN DUMPSTER AREA – KEEP THIS AREA CLEAR AND CLEAN. • SIGN (FOR EMPLOYEES) IS PRESENT IN DUMPSTER AREA – DO NOT FEED STRAY ANIMALS/BIRDS.

G. RECYCLING STORAGE:

- OUTSIDE STORAGE IS WELL DRAINED; PAVING IS DESIRABLE. • PLASTIC/GLASS – DEDICATED CONTAINERS ARE PROVIDED; AREA FOR DRY STORAGE IS PROVIDED. • HOT WATER AVAILABLE WITH FLOOR DRAINS FOR CLEANING.

H. ROOF CONSTRUCTION:

- SINGLE MEMBRANE OR SMOOTH ASPHALT IS PREFERRED; AVOID BALLASTED ROOFING OR HOT MOP ROOFS. • ACCESSES TO ROOF ARE CONVENIENTLY LOCATED, COVERED AND SEALED WHEN CLOSED. • CURBING (RUN-OFF STOP) IS DESIGNED TO A 12-18 INCHES HEIGHT MINIMUM. • MINIMAL FLAT SURFACES ARE AVAILABLE FOR NESTING/LOAFING SITES. • ROOF DESIGNED TO DETER STORAGE OF ANY KIND. • NO SKY LIGHTS ARE PRESENT; OR ONLY DOUBLE DOMED SKYLIGHTS ARE USED AND ARE WELL SEALED. • THERE ARE NO BRIGHT COLORS ATTRACTIVE TO INSECTS (YELLOW, RED), OR BIRDS (WHITE). • ONLY QUALITY FLASHING IS USED. • EQUIPMENT AND METAL DUCTWORK ARE PROPERLY MOUNTED WITH ALL JOINTS SEALED.

ROOF DRAINAGE:

- ALL ROOF DRAIN PIPES PROPERLY TREATED WITH NH3 TO AVOID RUSTING. • OPEN PIPES AND VENTS ARE SCREENED WITH 1/4 -INCH SCREENING OR CAPPED TO KEEP PESTS OUT. • ROOF DRAIN PIPES ARE INSULATED TO PREVENT FREEZING. • ROOF DRAINS ARE ROUTED TO THE SANITARY SEWER; DOWN-SPOUTS CARRY WATER AWAY FROM BUILDING. • CANOPY RUNOFF IS ROUTED AND DOES NOT RUN OFF ANY EDGE. • NO DEPRESSIONS OR SITUATIONS EXIST THAT CREATE STANDING WATER.

F. DOORS: • VESTIBULES ARE PRESENT AT EACH EMPLOYEE AND FACILITY ENTRY-WAY WHENEVER POSSIBLE. • PEDESTRIAN DOORS OPEN TO THE (OUTSIDE) OF THE FACILITY ONLY.

- PEDESTRIAN DOORS ARE CONSTRUCTED WITH GALVANIZED OR STAINLESS STEEL FRAME. • PEDESTRIAN DOORS HAVE PROPER DOOR-SWEEPS INSTALLED. BRUSHES ARE USED; RUBBER IS NOT. • PEDESTRIAN DOORS ARE (FOAM) INSULATED. NO FIBERGLASS INSULATION IS USED. • WOODEN DOORS ARE NOT PRESENT. • PEDESTRIAN DOORS HAVE A DOOR CLOSER; THERE ARE NO SCREW-DOWN THRESHOLDS OR "DOOR STOPS". • SWEEP-TYPE WEATHER STRIPPING IS USED AND NO PENETRATING LIGHT DETECTED.

II. INTERIOR SANITARY DESIGN

A. FOUNDATION:

- THE CRAWL SPACE OR BASEMENT IS EASILY ACCESSED. • PRESSURE TREATED WOOD IS USED IN ANY LOCATION NEAR OR BELOW GRADE. • NO VISIBLE CRACKS OR HOLES PRESENT IN THE WALLS. ALL OPENINGS GREATER THAN 1/4 INCH ARE SEALED. • 12-INCH BAND OF HARD GLOSSY PAINT IS APPLIED AROUND OUTSIDE BRICK OR STONE WALLS TO DETER CLIMBING RATS AND MICE. • ALL UTILITIES BELOW GRADE ARE EASILY ACCESSED AND ARE LABELED

B. FLOOR DRAINS:

- ALL FLOOR DRAINS ARE DESIGNED WITH TRAPS WITH AT LEAST 3 INCHES OF WATER SEAL, AND THEY ARE FITTED WITH SECONDARY STRAINERS TO PREVENT PEST ENTRY. • FLOOR DRAINS EXIST IN PRODUCTION AREA EVERY 400 SQ. FT. • FLOOR DRAINS ARE CONSTRUCTED OF STAINLESS STEEL FOR EASIER CLEANING. • OVERHEAD PIPING AND DRAINS (IN CRAWL SPACE) ARE WELL SEALED AND DO NOT LEAK. • WHERE INSECTS MAY BE A PERSISTENT PROBLEM, INSECT SCREENS ARE INSTALLED IN FRONT OF FILTER MEDIA. • SCREENS ARE EASY TO REMOVE FOR CLEANING, AND THEY ARE NON-CORROSIVE, 18- MESH SCREEN. • VENTS ARE COVERED WITH METAL GRILLWORK AND ARE BACKED BY RUST RESISTANT SCREENING. • FLOOR DRAINS INCLUDED ON MASTER SANITATION SCHEDULE – MINIMUM 1 WEEK CLEANING.

C. WALLS:

POURED CONCRETE IS PREFERRED FOR INSIDE WALLS, HIGH DENSITY FILLED CONCRETE BLOCK 1ST 6-8 FT. IS ACCEPTABLE IN OTHER AREAS. • IF METAL SIDING IS UTILIZED THE BOTTOM 8' OF THE WALL IS POURED CONCRETE SO AS TO PROVIDE A SEAL TO THE CONCRETE WITH THE OVERLAPPING SIDING. • NO VOIDS ARE PRESENT; ALL VOIDS INSULATED WITH PROPER MATERIAL THAT DETERS PESTS. • WALL AND FLOOR JUNCTURES ARE SEALED WHERE POSSIBLE. • IF STEEL STUDS ARE USED, OPENINGS EXIST THAT ALLOW EASY FLOW OF DUST APPLICATIONS. • FILLER COAT IS APPLIED TO ALL BLOCK WALLS. FOR SMOOTH BLOCK WALL SURFACES, PAINT FILLER IS USED. SEALING IS ADEQUATE, SUCH THAT THERE ARE NO VISIBLE CRACKS. • WALL FILLERS – AVOID PEARLITE, FIBERGLASS, ROCK WOOL. HIGH DENSITY FOAM PREFERRED.

- PIPES ARE PROPERLY RUST-PROOFED WITH NH3, PRIOR TO FOAM INSULATION OF THE WALLS. • ALL PIPE PENETRATIONS ARE PROPERLY SEALED/CAULKED. PIPE PENETRATIONS ARE CUT AND SEALED ON THE SAME DAY SO THAT OPENINGS OR JUNCTIONS REMAIN CLEAN. • TO DETER BIRD OR RODENT NESTING SITES, EXTERIOR PIPES AND CONDUITS ARE NOT ARRANGED IN GROUPS.

- ITEMS MOUNTED TO WALLS WITH LESS THAN A ¼" GAP SHOULD BE SEALED TO THE WALL. • ACCESS IS ALLOWED TO KEY UTILITY JUNCTIONS BEHIND WALLS; KNOCK OUT PANELS ARE PRESENT. • BUILDING CONSTRUCTION MINIMIZES THERMAL TRANSFER OF STRUCTURAL MEMBERS.

D. CEILINGS:

- CONCRETE CEILINGS ARE SMOOTH AND FREE OF PITS THAT MAY HARBOR INSECTS. • DROP CEILINGS ARE NOT PRESENT, BECAUSE OF POTENTIAL FOR FOOD/MOISTURE ACCUMULATION. (OBVIOUSLY NOT A "MUST" BUT, IT SURE MAKES IT EASIER) MAKING THEM MORE ACCESSIBLE FOR INSPECTION WOULD AT LEAST BE BETTER.

E. INTERIOR LIGHTING:

- HIGH PRESSURE SODIUM BULBS ARE USED WHERE HIGH-INTENSITY LIGHT IS NEEDED. SODIUM LIGHTS LAST LONGER AND ARE LESS ATTRACTIVE TO INSECTS THAN FLUORESCENT LIGHTS. • FLUORESCENT LIGHTING IS AVOIDED – IT'S HARD TO KEEP CLEAN. • SKYLIGHTS ARE AVOIDED BECAUSE THEY CAN LEAK. • WALL SCONCE UNITS ARE STRATEGICALLY PLACED SO THAT THEY DO NOT COLLECT DEBRIS.

F. WINDOWS:

- SKYLIGHTS ARE AVOIDED BECAUSE THEY CAN LEAK. • DOUBLE-PANE AND WELL INSULATED WINDOWS ARE PREFERRED. • CAULKING IS USED FOR SMALL CRACKS AND CREVICES FOUND AROUND WINDOWS. • IF SCREENING IS USED, A MINIMUM OF 18 MESH IS RECOMMENDED; 30 MESH IS PREFERRED. • SCREENS ARE REINFORCED AT POINTS OF STRESS.

G. FANS AND HOODS:

- ALL FAN/HOOD HOUSINGS ARE SEALED. ADEQUATE SEALS EXIST BETWEEN FAN HOUSINGS AND ROOF. ALL FANS ARE ACCESSIBLE FOR CLEANING; ALL FANS MOUNTED HIGH ENOUGH FOR CLEANING. • ALL HOODS HAVE SCREENS AND FILTERS THAT ARE PROPERLY SIZED AND HAVE THE PROPER MESH. • ALL FILTERS ARE EASILY CHANGED AND/OR CLEANED. • ALL FILTERS ARE INCLUDED ON THE MSS. • ALL DUCT WORK IS POSITIVELY PITCHED; THERE ARE NO HORIZONTAL DUCTS FROM HOODS. • ALL DUCT WORK IS ACCESSIBLE. • CONDENSATE DRAINS OR TRAPS ARE PRESENT.
- EXHAUST FANS ARE MAXIMUM DISTANCE FROM AIR INTAKE. • THERE IS NO AIRFLOW DIRECTLY ONTO FOOD PREP AREAS. • INBOUND AIR IS FILTERED AND DEHUMIDIFIED OR AIR-CONDITIONED.

H. FLOORS:

- SOURCES OF WATER DISCHARGE DO NOT CREATE STANDING WATER. • ENTIRE FLOOR IS SEALED.

I. CONSTRUCTION GAPS AND PENETRATIONS

- ALL PIPE PENETRATIONS ARE PROPERLY SEALED THE SAME DAY THEY ARE CUT. • EXPANSION JOINTS PRESENT ARE SEALED WITH PROPER JOINT COMPOUND. • ALL CRAWL SPACES ARE CLEAN AND FREE OF CLUTTER (E.G., WOOD DEBRIS) AFTER CONSTRUCTION. • ALL CRAWL SPACES AND BASEMENTS HAVE PROPER DRAINAGE AND VENTILATION. • ADEQUATE DRAINAGE IS AVAILABLE AND EQUIPPED WITH PUMPS FOR EXCESS WATER REMOVAL.

J. STOREROOMS:

- STOREROOMS HAVE METAL SHELVING; NO WOODEN SHELVING PRESENT. • STOREROOMS HAVE ADEQUATE LIGHTING. • STOREROOMS ORGANIZED & NOT CLUTTERED.

K. BATHROOMS:

- TOILETS ARE WALL MOUNTED WITH AUTOMATIC FLUSHING. • HAND WASH HAS AUTOMATIC VALVES. • BATHROOM WALLS ARE MONOLITHIC, SEALED, AND CLEANABLE. • BATHROOM FLOORS ARE MONOLITHIC. TILES AND VINYL SHEETING ARE AVOIDED. • FLOOR DRAINS ARE PRESENT TO ALLOW RINSING.

N. EMPLOYEE FACILITIES:

- OFFICE AREA'S DESIGN PROMOTES ACCESSIBILITY AND MINIMIZES CLUTTER. • OPEN STORAGE SPACES AREA IS PROVIDED FOR EMPLOYEES. • EMPLOYEE LOCKERS ARE AVOIDED, BUT IF INSTALLED ARE ELEVATED WITH ACCESS BEHIND AND UNDER.

III. PEST PROOFING

PEST EXCLUSION: SEALING OR SCREENING ALL POTENTIAL ENTRY POINTS INTO THE BUILDING TO KEEP PESTS FROM COMING INSIDE. PEST ISOLATION (CONCEPT): PEST PROOF INSIDE THE BUILDING TO CONFINE PESTS AND KEEP THEM FROM MOVING INTO NEW AREAS. AN EXAMPLE MIGHT BE COMPARTMENTALIZING A BUILDING (LIKE SHIP BULKHEADS) TO ISOLATE AN INFESTATION IN ONE AREA AND MAKE PESTS EASIER TO ERADICATE.

PEST ISOLATION (CONCEPT): PEST PROOF INSIDE THE BUILDING TO CONFINE PESTS AND KEEP THEM FROM MOVING INTO NEW AREAS. AN EXAMPLE MIGHT BE COMPARTMENTALIZING A BUILDING (LIKE SHIP BULKHEADS) TO ISOLATE AN INFESTATION IN ONE AREA AND MAKE PESTS EASIER TO ERADICATE.

SEALING HARBORAGES: WELL SEALED BUILDINGS ARE LESS ATTRACTIVE TO PESTS, AS FEWER HIDING PLACES ARE AVAILABLE AND MAKE PESTS EASIER TO ELIMINATE.

PEST OPENINGS MUST BE LESS THAN

PIGEON	1.5 – INCH
SPARROW	4/5 – INCH
RAT – YOUNG	1/3 – INCH
MOUSE – ADULT	2/5 – INCH
MOUSE – YOUNG	1/5 – INCH
GERMAN COCKROACH – ADULT	1/5 – INCH
GERMAN COCKROACH 1ST INSTAR NYMPH	1/16 – INCH
HOUSE FLY	1/12 – INCH
MOSQUITO	1/20 – INCH

EXTERIOR PEST PROOFING: PEST EXCLUSION HAS BEEN SHOWN TO BE EFFECTIVE, ESPECIALLY FOR BIRDS AND RODENTS. EXAMPLES OF PEST EXCLUSION ARE INSTALLING METAL KICK PLATES ON DOORS, SCREENING VENTS AND EAVES, SEALING OPENINGS WHERE PIPES AND UTILITY LINES ENTER BUILDINGS, AND INSTALLING METAL RODENT GUARDS ON OVERHEAD LINES OR VERTICAL PIPES.
INTERIOR PEST PROOFING: WHILE INTERIOR SEALING OF OPENINGS AROUND PIPES AND LINES HAS BEEN PROVEN EFFECTIVE FOR MICE AND RATS, MANY STUDIES HAVE SHOWN THAT IT IS NOT VERY EFFECTIVE AGAINST COCKROACHES. IT IS VERY LABOR INTENSIVE AND BUILDING OR MAINTENANCE STAFF MAY NOT HAVE THE KNOWLEDGE OF PEST HABITS TO DO THIS INTERIOR PEST PROOFING CORRECTLY. IN FACT, SEALING OPENINGS INSIDE A STRUCTURE CAN ACTUALLY BE DETRIMENTAL BECAUSE VOIDS MAY NO LONGER BE ACCESSIBLE TO TREATMENT, BUT MAY STILL BE ACCESSIBLE TO COCKROACHES.

IV. INTERIOR PEST PROOFING

A. DOORS:

- ALL DOORS ARE FITTED TO CLOSE AUTOMATICALLY. • ALL DOOR CASINGS ARE PROTECTED WITH SHEET METAL TO PREVENT MICE AND RATS FROM WIDENING CRACKS BY GNAWING.
- ALL WOODEN DOORS HAVE A 12-INCH SHEET METAL (26-GAUGE) KICK PLATE ATTACHED TO THE OUTSIDE OF THE DOOR, WITH THE LOWER EDGE NOT MORE THAN 1/4 -INCH FROM THE FLOOR. • HOLLOW METAL DOOR SEAMS ARE SEALED BY SPOT WELDING TO PREVENT INSECT ENTRY. • ALL SCREEN DOORS OPEN OUTWARDLY AND ARE FITTED WITH A SCREEN MESH OF NO LARGER THAN 1/18 INCH TO PREVENT ENTRY OF SMALL INSECTS INTO THE BUILDING. • DOUBLE DOORS ARE INSTALLED IN REGIONS WHERE FLYING INSECTS ARE PERVASIVE.
- (IF FEASIBLE) • EXTERIOR LIGHTS AROUND DOORS HAVE 'BUG LIGHTS' INSTALLED OR LIGHTING IS AT LEAST 30-40 FEET AWAY FROM EXTERIOR DOORS SO THAT THEY DO NOT ATTRACT FLYING INSECTS ONTO THE PREMISES. (IF FEASIBLE) • AIR DOORS OR PLASTIC CURTAINS (STRIP DOORS) ARE INSTALLED IN DELIVERY ENTRY WAYS TO PREVENT THE ENTRY OF FLYING PESTS. AIR VELOCITY OF AIR DOORS IS A MINIMUM OF 1600 FT/MIN. (IF FEASIBLE) B. WINDOWS:
- OPERABLE WINDOWS, FITTED WITH AT LEAST 18-INCH MESH SCREENING. SCREENING IS REINFORCED AT POINTS OF STRESS. • ALL CRACKS AND CREVICES AROUND WINDOWS ARE THOROUGHLY CAULKED.

A. FOUNDATION:

- ALL CRACKS AND HOLES ARE PATCHED-UP WITH CEMENT. ALL OPENINGS GREATER THAN 1/4 INCH ARE SEALED TO EXCLUDE MICE; ALL OPENINGS GREATER THAN 1/2 INCH ARE SEALED AGAINST RATS. • CLIMBING BY RATS AND MICE IS DETERRED BY A 12-INCH BAND OF HARD GLOSSY PAINT, OR POLISHED METAL, AROUND THE OUTSIDE OF BRICK WALLS, UP TO ABOUT 3.5 FT. ABOVE THE GROUND. • FOR TEMPORARY EXCLUSION, UNTIL MORE PERMANENT REPAIRS CAN BE MADE, STEEL WOOL IS TIGHTLY PLUGGED INTO CRACKS AND HOLES TO PREVENT ENTRY OF RODENTS.

D. PEST PROOFING MATERIALS 1. BACKING/FILLING MATERIALS: • MATERIALS SUCH AS COPPER MESH, PLUMBER'S OAKUM, HARDWARE CLOTH AND/OR FOAM RUBBER ARE (FIRST) USED TO FILL GAPS THAT EXCEED THE MAXIMUM SIZE RECOMMENDED FOR A SEALING PRODUCT. • THESE MATERIALS ARE PLACED IN THE OPENING FIRST, AND THEN CAULKED OR SEALED OVER.

2. SCREENING MATERIALS:

- STEEL WOOL IS USED TO PLUG SMALL OPENINGS WHERE PESTS MAY ENTER OR MOVE WITHIN STRUCTURES. STEEL WOOL IS USEFUL WHERE AIR MOVEMENT IS DESIRED, BUT THERE IS LOW HUMIDITY ONLY. STEEL WOOL WILL RUST, SO IT SHOULD NOT BE USED IN AREAS OF HIGH MOISTURE. • COPPER MESH IS USED IN LOCATIONS WITH HIGH HUMIDITY OR MOISTURE (STEEL WOOL WILL RUST). • WINDOW SCREEN (18 MESH MINIMUM) IS USED TO EXCLUDE INSECTS (NOT WILDLIFE) FROM SOFFIT VENTS IN ATTICS, CRAWL SPACE VENTS, AND FRESHAIR INTAKE VENTS FOR THE STRUCTURE. • HARDWARE CLOTH IS HEAVIER THAN WINDOW SCREENING AND IS USED TO EXCLUDE RODENTS, BATS, BIRDS, AND WILDLIFE FROM ATTICS AND CRAWL SPACES. IT CAN ALSO BE USED TO PREVENT WILDLIFE FROM TUNNELING UNDER STRUCTURES.

CONSTRUCTION CHECKLIST:

DURING CONSTRUCTION 3 MANDATORY AND 1 OPTIONAL VERIFICATION STEPS ARE REQUIRED:

___ 1. (PREFERRED BUT NOT REQUIRED) PEST PROVIDER IS BROUGHT IN DURING SITE SELECTION FOR PRELIMINARY EVALUATION. TACO BELL HAS 4 NATIONAL PROVIDERS OF PEST MANAGEMENT & PREVENTION.
___ 2. AFTER DEMO, PMP ESTABLISHES A PLAN FOR EXCLUSION (SEALING OF BUILDING). IT IS IMPORTANT THIS STEP HAPPENS AFTER ALL OF THE WALLS ARE OPEN TO IDENTIFY ALL PENETRATIONS AND AREAS OF RISK.
___ 3. AFTER EXCLUSION WORK IS COMPLETE, BUT BEFORE WALLS ARE CLOSED UP, PMP CONDUCTS A 2ND EVALUATION.
___ 4. AFTER WALLS ARE CLOSED UP AND TYPICALLY A FEW DAYS BEFORE A STORE OPENS, A FINAL WALK-THRU IS CONDUCTED TO ENSURE THAT ALL DEVICES ARE IN PLACE AND THE INTEGRITY OF THE EXCLUSION PLAN IS STILL INTACT.

CEILING/WALL/FLOOR

EXTERIOR PIPES

VENTS

OTHER AREAS RAT PROOFING IS REQUIRED:

- TOILET GUARDS
- FLOOR TRAPS WITH LATCH GRATES
- MESH OVER SEWER ROOF VENTS

PIPE PENETRATIONS

RAT PROOFING DETAILS

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No. 00920072
8/10/20

△1 OWN/STATE COMMENTS 08.10.20

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

EXPLORER LITE
MEDIUM40

PEST PREVENTION GUIDE

G3.0

6/29/20

NOT USED N.T.S. | 17

NOT USED N.T.S. | 18

NOT USED N.T.S. | 16

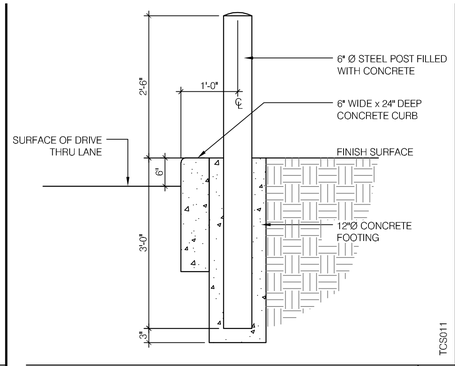
NOT USED N.T.S. | 11

NOT USED N.T.S. | 12

NOT USED N.T.S. | 3

NOT USED N.T.S. | 4

BOLLARD DETAIL 3/4" = 1'-0" | 8

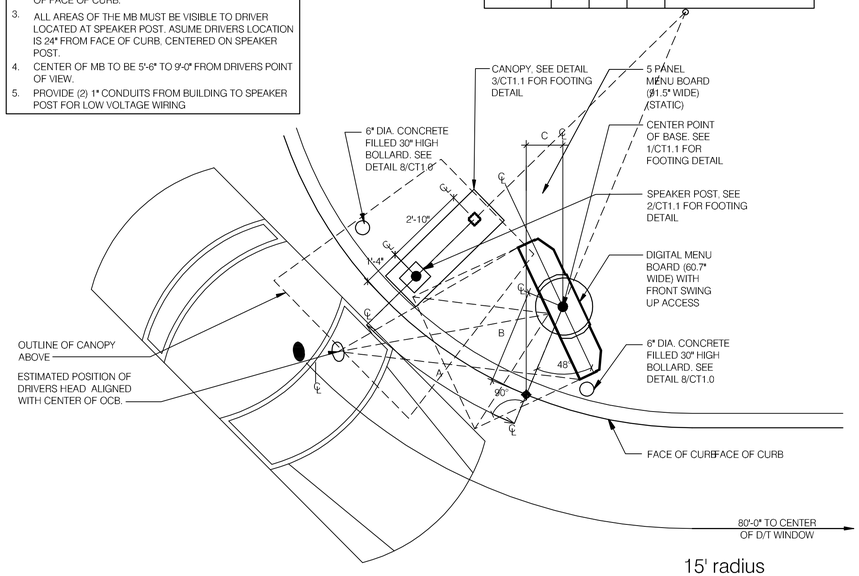


ENLARGED MENU BOARD DETAIL @ STRAIGHT CURB 3/8" = 1'-0" | 1

NOTES

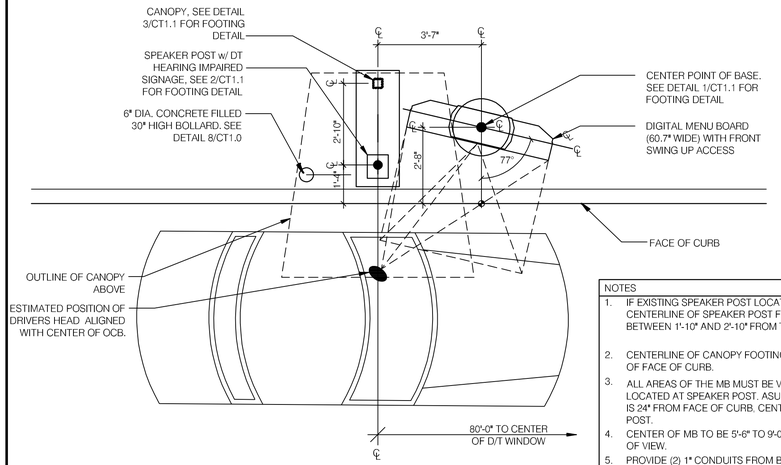
1. IF EXISTING SPEAKER POST LOCATION IS TO BE REUSED, CENTERLINE OF SPEAKER POST FOOTING CAN BE BETWEEN 1'-10" AND 2'-10" FROM THE FACE OF CURB.
2. CENTERLINE OF CANOPY FOOTING MUST BE WITHIN 18" OF FACE OF CURB.
3. ALL AREAS OF THE MB MUST BE VISIBLE TO DRIVER LOCATED AT SPEAKER POST. ASUME DRIVERS LOCATION IS 24" FROM FACE OF CURB, CENTERED ON SPEAKER POST.
4. CENTER OF MB TO BE 5'-6" TO 9'-0" FROM DRIVERS POINT OF VIEW.
5. PROVIDE (2) 1" CONDUITS FROM BUILDING TO SPEAKER POST FOR LOW VOLTAGE WIRING

CORNER DIMENSIONS				
RADUS	A	B	C	MENU BRD DEG TILT
15'-0"	6'-3"	3'-3"	1'-3"	48°
18'-0"	5'-10"	3'-6"	1'-7"	52°
20'-0"	5'-11"	3'-7"	1'-9"	54°



15' radius

ENLARGED MENU BOARD DETAIL @ STRAIGHT CURB 3/8" = 1'-0" | 1



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RICK J. DICKSON
No. 00920072
STATE OF INDIANA
ARCHITECT
8/10/20

⚠1 OWN/STATE COMMENTS 08.10.20

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

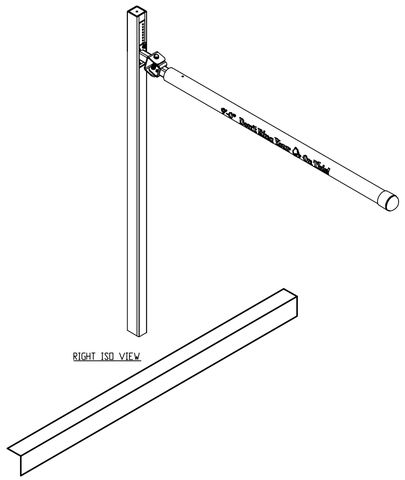
⚠1 TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

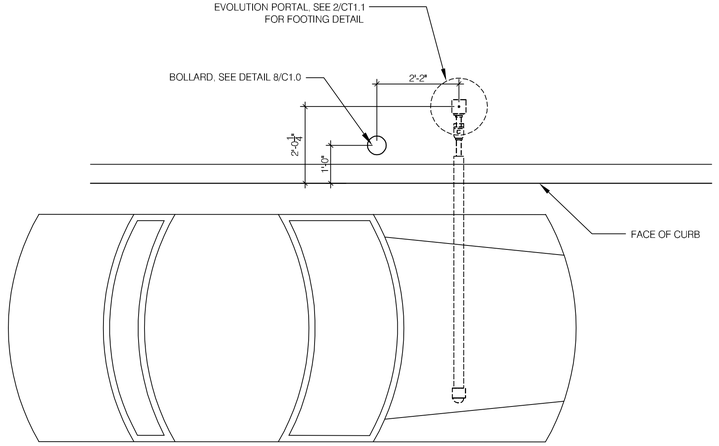
TACO BELL
EXPLORER LITE
MEDIUM40

SITE DETAILS

CT1.0

6/29/20



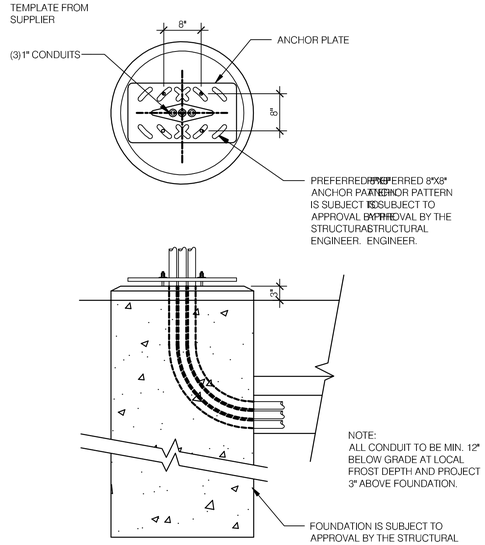


PORTAL PLACEMENT DETAIL 1/2" = 1'-0" | **3**

CONDUIT SCHEDULE

DEVICE	POWER	DATA
DIRECTIONAL	(1) 3/4"	-
SPEAKER POST	(1) 1"	(1) 1"
MENU BOARD	(1) 1"	(2) 1"
PREVIEW BOARD	(1) 1"	(2) 1"

NOTE:
BOLT PATTERN PROVIDED AS EXAMPLE - OBTAIN ANCHOR BOLT TEMPLATE FROM SUPPLIER



MENU BOARD FOOTING 1:16 SCALE | **1**

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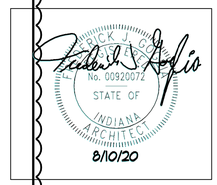
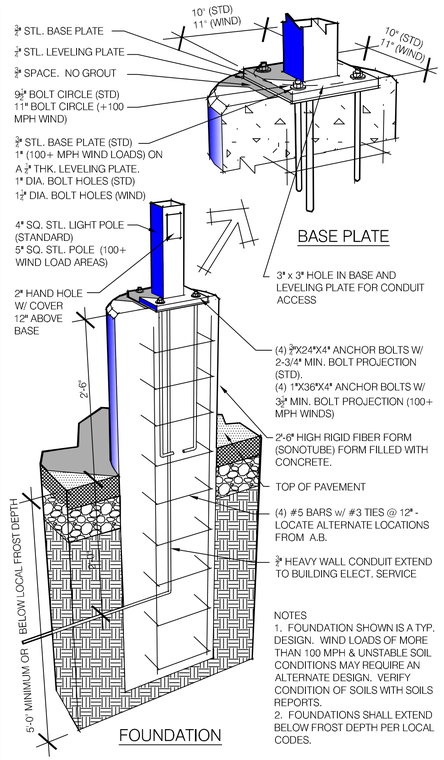


NOT USED | **20**

NOTE USED | **16**

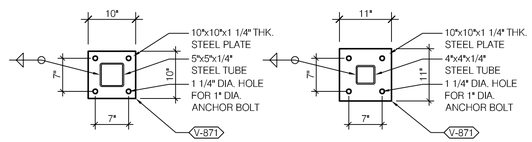


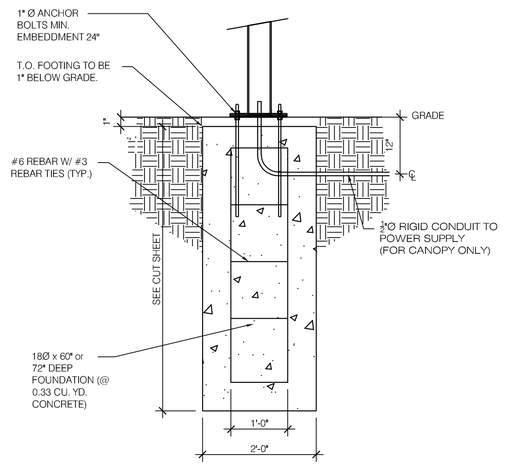
NOTES
1. FOUNDATION SHOWN IS A TYP. DESIGN. WIND LOADS OF MORE THAN 100 MPH & UNSTABLE SOIL CONDITIONS MAY REQUIRE AN ALTERNATE DESIGN. VERIFY CONDITION OF SOILS WITH SOILS REPORTS.
2. FOUNDATIONS SHALL EXTEND BELOW FROST DEPTH PER LOCAL CODES.

LIGHT POLE FOOTING N.T.S. | **12**

1

NOTE:
REFER TO CURRENT CUT SHEETS FOR FOOTING AND BOLT DETAILS
V-870 V-871





ECP-Footing

EVOLUTION FOOTINGS 1:16 SCALE | **2**

1 OWN/STATE COMMENTS 08.10.20

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

1 TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

SITE DETAILS

CT1.1

6/29/20

FINAL SITE DEVELOPMENT PLANS

FOR

TACO BELL

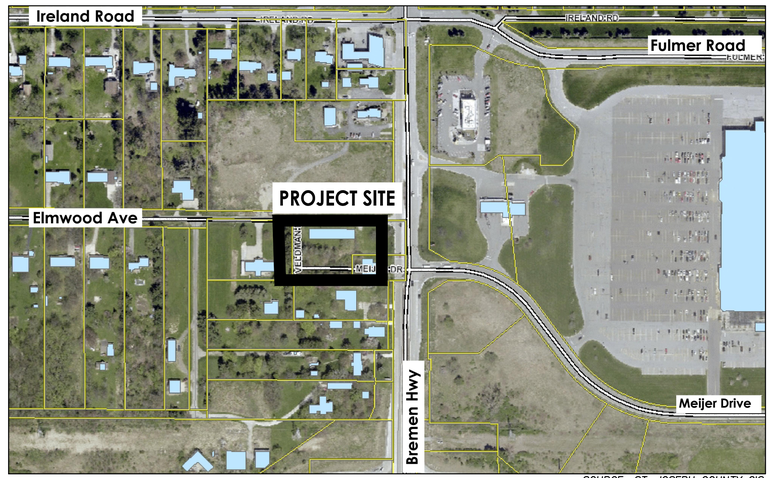
3615 BREMEN HIGHWAY

SECTION 28, TOWNSHIP 37 NORTH, RANGE 3 EAST, PENN TOWNSHIP, CITY OF MISHAWAKA, ST. JOSEPH COUNTY INDIANA

SOURCE: GOOGLE MAPS

VICINITY MAP

SCALE: 1"=2,000'



SOURCE: ST. JOSEPH COUNTY GIS

LOCATION MAP

SCALE: 1"=400'

UTILITY CONTACTS	
Gas	NIPSCO 1039 East Pennsylvania Avenue, South Bend, IN 46601 Contact: Jonathan Erdahl (574) 800–6132
Electric	Mishawaka Utilities, Electric Department 1646 East 12th Street, Mishawaka, IN 46544 Contact: Kevin Wasmer (574) 258–1717
Telephone	AT&T 307 South Main Street, South Bend, IN 46601 Contact: Thomas Pendergrass (574) 237–8822
Fiber Optics	St. Joe Valley Metronet Commerce Center, Suite 305 401 East Colfax Avenue, South Bend, IN 46617 Contact: Ben Hudson (574) 986–5353
Cable	Comcast 1920 E. McKinley Avenue, Mishawaka, IN 46545 Contact: Jay Costello (574) 789–1039
Water	Mishawaka Utilities, Water Department 401 East Jefferson Boulevard, Mishawaka, IN 46545 Contact: Dave Majewski (574) 258–1652
Sewer, Streets	City of Mishawaka Engineering Department 600 East 3rd Street, Mishawaka, IN 46544 Contact: Christine Jamrose, PE (574) 258–1619

Call 811 OR 1-800-382-5544
24 Hours a Day, 7 Days a Week

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bbaquet@arcv.com

SHEET INDEX

Sheet Number	Description	Latest Revision
C0.0	Cover Sheet & Index	
C1.0	Construction Notes & Specifications	
C2.0	Existing Conditions Map & Removals Plan	
C3.0	Site Plan	
C4.0	Utilities Plan	
C5.0	Grading Plan	
C6.0–C6.1	Drainage Plan	
C7.0	Landscape Plan	
C7.1	Lighting Plan	
C8.0	General Details	
C8.1	Utility Details	
C8.2	Sewer Details	
C9.0–C9.1	Erosion Control Plan & Details	

2	UPDATE ADDRESS	DEF	8/10/20

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Benton Harbor
Lafayette
South Haven
Goshen
Hobart
South Bend
Valparaiso
Engineering · Architecture · Land Surveying

PROJECT:
TACO BELL
3615 BREMEN HIGHWAY
MISHAWAKA, INDIANA 46544

SHEET TITLE:
COVER SHEET & INDEX

DRAWN BY: DEF
DESIGNED BY: DEF
PM REVIEW: MJH
QA/QC REVIEW: RTN
DATE: 3-25-2020
SEAL:

ROGER T. NAWROT
REGISTERED
No. 60016991
STATE OF INDIANA
PROFESSIONAL ENGINEER

SIGNATURE:
DATE: 7–1–2020
SCALE:
HORZ:
VERT:
ACI JOB #
20-0205
SHEET NO.
C0.0

SHEET C3.0 - SITE PLAN CONSTRUCTION NOTES

1. Contractor shall obtain all required local, state and federal permits except for the IDEM Rule 5 Construction/Land Disturbance permit that will be obtained by the Owner.
2. Contractor shall follow the current Indiana Rule 5 storm water quality guidelines for controlling soil erosion and controlling and treating nonpoint source sediment laden runoff. See Erosion Control Plan, Sheets C9.0–C9.1.
3. Contractor shall request existing utility location from Indiana 811 prior to commencing construction.
4. Damage to public and private property shall be repaired to equal or better condition at no additional cost to the Owner.
5. No streets shall be closed without prior approval from the local municipality.
6. Contractor shall protect the work and the safety of the public and shall provide, erect and maintain barricades, signals, signs and other traffic control devices in accordance with the Indiana Manual on Uniform Traffic Control Devices.
7. Contractor shall follow "2020 Indiana Department of Transportation Standard Specifications" for pavement materials and installation procedures.
8. See "Miscellaneous Construction Details", Sheet C8.1 for additional construction notes and details of curb, sidewalk, pavement, sidewalk ramps, signs and pavement markings, including ADA accessible spaces.
9. Contractor shall construct sidewalks, ramps, parking spaces and ADA accessible areas in accordance with the current ADA standards.
10. Sign designations from the U.S. Dept. of Transportation Federal Highway Administration "Manual on Uniform Traffic Control Devices" (MUTCD).
11. Radii are noted along the drive centerline. Offset from centerline to determine curb alignment along back of parking bays, unless noted otherwise.
12. Parking spaces along curve are radial with a minimum width of 9'. ADA access aisles are minimum 5' wide.
13. Curb radii noted on the site layout plan are dimensioned along the back of curb.
14. Thicken concrete pavement adjacent to HMA pavement, See Detail, Sheet C8.0.
15. Contractor shall bring Drawing discrepancies and conflicts to the attention of the Engineer as soon as they are noticed, for clarifications and revisions as necessary.
16. Contractor shall prepare Record Drawings with field locations and elevations upon completion of the work for submittal to the Engineer.

SHEET C4.0 - UTILITIES PLAN CONSTRUCTION NOTES

1. For additional construction notes including material and testing specifications and for construction details see "Utility Details," Sheet C8.1; and "Sewer Details," Sheet C8.2. For underground storage system, See "Chamber Details," Sheet C6.1.
2. Contractor is responsible for having existing underground utilities located and field confirming locations and depths prior to commencing construction.
3. Contractor shall coordinate utility service locations and depths in the R/W with utility companies prior to installation.
4. Contractor shall verify utility service locations and depths at the building with the Architect prior to installation.
5. Contractor shall coordinate with utility companies as necessary if service interruption is required.
6. Materials, construction and testing shall be in accordance with the current construction standards for City of Mishawaka.
7. Contractor shall verify the water table depth and include dewatering costs in the Bid. The water table shall be lowered to at least 12 inches below the lowest pipe invert prior to pipe installation.
8. Maintain minimum 10 feet clear of horizontal separation between sewer and water pipes. Maintain minimum 18 inches clear of vertical separation at sewer and water pipe crossings. If clearances cannot be met, sewer shall be water grade pipe in accordance with AWWA standards. At crossings, water grade sewer pipe shall extend a minimum of 10 feet past each side of the crossing, and one full length of water pipe shall be centered at the crossing.
9. Maintain minimum 5 feet of cover at water mains & services.
10. Unsuitable material that may affect the structural integrity of the pipe shall be replaced or treated to support the anticipated loads.
11. Storm and sanitary sewer castings shall be imprinted with the notices as specified on the construction details.
12. Remove sediment buildup from storm structures prior to Owner's acceptance of the Work.
13. Roof downspouts shall connect to the storm sewer. It is the Contractor's responsibility to review the Arch. plans and confirm downspout locations.
14. Utilities other than sewer and water shall be installed underground and placed in PVC conduit where located under pavement sidewalk and curb.

SHEETS C5.0, C6.0 - C6.1 - GRADING & DRAINAGE PLAN CONSTRUCTION NOTES

1. Contractor shall remove topsoil and stockpile the material onsite at a location approved by the Owner. Place a minimum of 4 inches of topsoil on all disturbed areas outside the building and parking areas.
2. All fill material shall be placed and compacted in accordance with the geotechnical report.
3. Prior to commencing paving operations, Contractor shall proof roll exposed subgrade with a geotechnical engineer or qualified representative to witness the work. Excavate unsuitable soil and backfill and compact with suitable material capable of supporting the anticipated loads.
4. Place site grading backfill in maximum six inch lifts and compact to 100% Standard Proctor to the top of subgrade.
5. Finished grades at building doorways shall match the building finished floor elevation, unless otherwise noted.
6. Contractor is responsible for meeting ADA guidelines at sidewalks and parking areas.
7. The proposed contours and spot elevations on this Drawing show grading intent only. Contractor is responsible for confirming that the provided grading plan maintains positive drainage to prevent ponded water or encroachment onto adjacent properties; and shall contact the Engineer if additional grades are needed, if the design does not provide positive drainage, or if any discrepancies/conflicts are found.

SHEET C7.0 - LANDSCAPE PLAN CONSTRUCTION NOTES

1. All landscaping shall comply with the City of Mishawaka Zoning Ordinance.
2. Work shall be performed by a single firm specializing in landscape work with a minimum of five (5) years experience.
3. All plant materials shall be nursery grown and meet the latest edition of the "American Standard for Nursery Stock". Tree caliper size indicates the diameter of the trunk taken at 6" above ground level.
4. Contractor shall restore existing lawn and planting areas disturbed during construction to existing or better condition.
5. Contractor is responsible for coordinating landscape work with other work.
6. Contractor shall notify Developer, prior to planting, of any foreign substance that may damage vegetation.
7. Contractor shall maintain moist soil for vegetation until planted. Check balled and burlapped plants to ensure they are receiving water through burlap material. If vegetation cannot be planted immediately, heel in root balls and cover with mulch.
8. Landscape Contractor to prepare planting area soil. Test topsoil to verify fertility. Amend soil if pH is less than 5.5 or greater than 7.0. Adjust soil as indicated by analysis.
9. Contractor shall verify that landscaped areas meet surveyed benchmarks and intended elevations for site drainage prior to finishing landscaping and placing topsoil; that building and trench backfilling is complete and inspected; and subgrade is contoured and compacted.
10. Topsoil shall be 6" minimum depth in lawn areas. Planting soil shall be 18" minimum depth in planting areas and consist of 1/3 topsoil, 1/3 subsoil, and 1/3 peat moss and fertilizer. Topsoil shall be fertile, agricultural soil, typical for locality, capable of sustaining vigorous plant growth; well drained, free of subsoil, clay or impurities, free from stones, roots, branches, or debris over 1/2" in size and free from herbicide or other toxins. Remove soils contaminated with petroleum products.
11. Top of planted root ball shall be even with finished grade. Plants shall be plumb with a level subbase. Contractor shall provide a two (2) year straightening guarantee in lieu of staking trees.
12. Landscape beds shall be defined by commercial grade 1/8" x 4" steel edging, manufactured by an established company. Stake per manufacturer's recommendation.
13. Place 3" of shredded hardwood mulch at landscape beds. Place a 36" diameter 3" deep spaded natural "v" edged hardwood mulch ring at trees located outside of landscape beds.
14. Hydroseed lawns. Restore areas disturbed during construction. Provide alternate price for sodding in lieu of hydroseeding.
15. Irrigate planting and lawn areas per Owner's direction. Provide a permanent automatic irrigation system on a design build–basis to irrigate 100% of the landscape areas.
16. All tree wrap/twine, stakes, and guys etc. to be removed in one (1) year as part of maintenance. Contractor shall provide a one (1) year guarantee for plant material from the date of installation. Warranty shall include replacement of dead or unhealthy vegetation to be planted in the next growing season, with a new one (1) year warranty commencing on date of replacement for each plant replaced.

SHEETS C8.0 - GENERAL DETAILS

1. GENERAL
   a. Curb and walk to be constructed of INDOT Class A concrete.
   b. Cure concrete in accordance with current INDOT and municipal specifications.
   c. Align curb, gutter and sidewalk joints.
2. SIDEWALK
   a. Expansion joints shall be 1/2" wide with elastomeric filler, extending the full depth of the concrete located at a maximum spacing of 40'–0" and where sidewalk abuts concrete driveways, curb or other adjacent structures.
   b. Contraction joints shall be scored 1/2" deep and spaced at 5 feet.
   c. Formed joints shall be finished with a tool having a 1/4" radius.
   d. Finish: Steel trowelled with a light broom texture perpendicular to the direction of travel.
2. CURB
   a. Expansion joints shall be 1/2" wide with elastomeric filler, extending the full depth of the concrete, located at a maximum spacing of 40'–0".
   b. Contraction joints shall be scored 1/2" deep and spaced at 10'.

SHEETS C8.2 - SEWER CONSTRUCTION NOTES

1. All sewer main materials and construction shall be in accordance with City of Mishawaka Construction Standards and these Construction Drawings.
2. Sanitary sewer fittings shall conform to the requirements of ASTM D3034 with a minimum wall thickness of SDR 35, as defined in 7.4.1, and molded in one piece with elastometric joints and minimum socket depths as specified in Sections 6.2 and 7.3.2. PVC material shall have a cell classification of 12454–B and C as defined in ASTM D1784.
3. Contractor shall supply as–built record drawings to the Owner and Engineer upon completion of work.
4. The following tests shall be performed by the Contractor in accordance with the City of Mishawaka Standards and witnessed by a licensed Professional Engineer. The Engineer and Owner shall be provided48 hours notice of all testing.

   A) Low pressure air leakage test per ASTM F1417, standard test method for installation acceptance of plastic gravity sewer lines using low–pressure air. The infiltration rate shall not exceed 100 gallons per inch diameter of pipe per mile per day. If the test fails, the Contractor shall determine the cause, repair/replace the sewer line to the satisfaction of the Owner, and then re–test.

   B) Tests for deflection of sanitary sewer pipes shall be performed no earlier than 30 days after installation. The pipe shall be tested with an approved 9–point mandrel. No pipe shall exceed a deflection of five (5%) percent. In the event the sanitary sewer pipe fails the deflection test, the section of pipe which failed shall be completely removed, replaced, and tested starting with low pressure air leakage testing and then deflection testing. The mandrel shall be pulled without the aid of a mechanical pulling device.

   C) Sanitary sewer manholes, if specified, shall be tested by negative air pressure in accordance with ASTM C1244–93. If the test fails, the Contractor shall determine the cause, and then repair/replace the manhole to the satisfaction of the Owner. The test shall be repeated until it is successful.

SHEETS C8.1 - WATER CONSTRUCTION NOTES

1. Water main, domestic and fire services, materials and construction shall be in accordance with City of Mishawaka Construction Standards, AWWA Standards, and these Construction Drawings.
2. Water main (4–inch diameter and larger) shall be Class 50 ductile iron and pipe fittings shall be Class 250 ductile iron mechanical joint meeting the requirements of the City of Mishawaka and AWWA C–110 or AWWA C–111. Water main joints shall be bell and spigot with elastomeric rubber gaskets. Joints shall be push–on or mechanical, unless otherwise noted in the plans. Mechanical joint fittings shall be restrained by a mega–lug flange or grip ring meeting Mishawaka's latest specifications.
3. Water services (less than 4–inch diameter) shall be Type 'K' Copper.
4. All gate valves shall be resilient sealed and meet or exceed AWWA C509 (standard for resilient wedge seated valves) and the City of Mishawaka Standards. Valves shall be rated for 200 psi working water pressure with mechanical joints and open left (counterclockwise). Valves shall be anchored with restrained joints and thrust blocking. Valves shall be installed with standard cast iron valve boxes, plumb over the wrench nut of the valve and to finished grade, and have a round plug–type cover embossed with "WATER".
5. Retainer glands shall be provided on all valves and fittings in accordance with City of Mishawaka Standards.
6. Water main and services shall have a minimum cover of 5 feet.
7. Water main shall be backfilled in accordance with the requirements as set forth in the plans for rigid pipe beneath pavement.
8. Maintain a minimum horizontal clear separation 10 feet between water and sewer pipes. Where water and sewer pipes cross, maintain a minimum vertical clear separation of 18 inches. If separation cannot be met, the sewer pipe shall be constructed of water grade pipe meeting AWWA Standards for a distance of 10 feet each side of the water pipe. At crossings, one full length of water pipe shall be installed so that the joints will be as far from the sewer pipe as possible.
9. All tees, plugs, valves, dead ends, reducers, and bends shall be installed with a restrained joint in accordance with City of Mishawaka Standards.
10. Flushing, Disinfection, and Testing for domestic service shall be in accordance with City of Mishawaka and AWWA Standards. Water main shall be subjected to hydrostatic pressure 50% above normal operating pressure or 150 psi for at least 2 hours. Water Department to determine test pressure prior to performing testing. Leakage shall not exceed 36 gallons per 24 hours per mile of pipe per inch nominal diameter for pipes in 12' lengths, 27 gallons for 16' lengths, and 24 gallons for 18' lengths. All pipes or joints that do not surpass the requirements of the leakage testing shall be removed and replaced at the Contractor's expense.
11. Flushing, Disinfection, and Testing for fire service shall be in accordance with City of Mishawaka Fire Department and AWWA Standards. Fire Department to determine test pressure and allowable leakage prior to performing testing.

RNUM	RDESC	RBY	RDATE
2	UPDATE ADDRESS	DEF	8/10/20

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Engineering · Architecture · Land Surveying

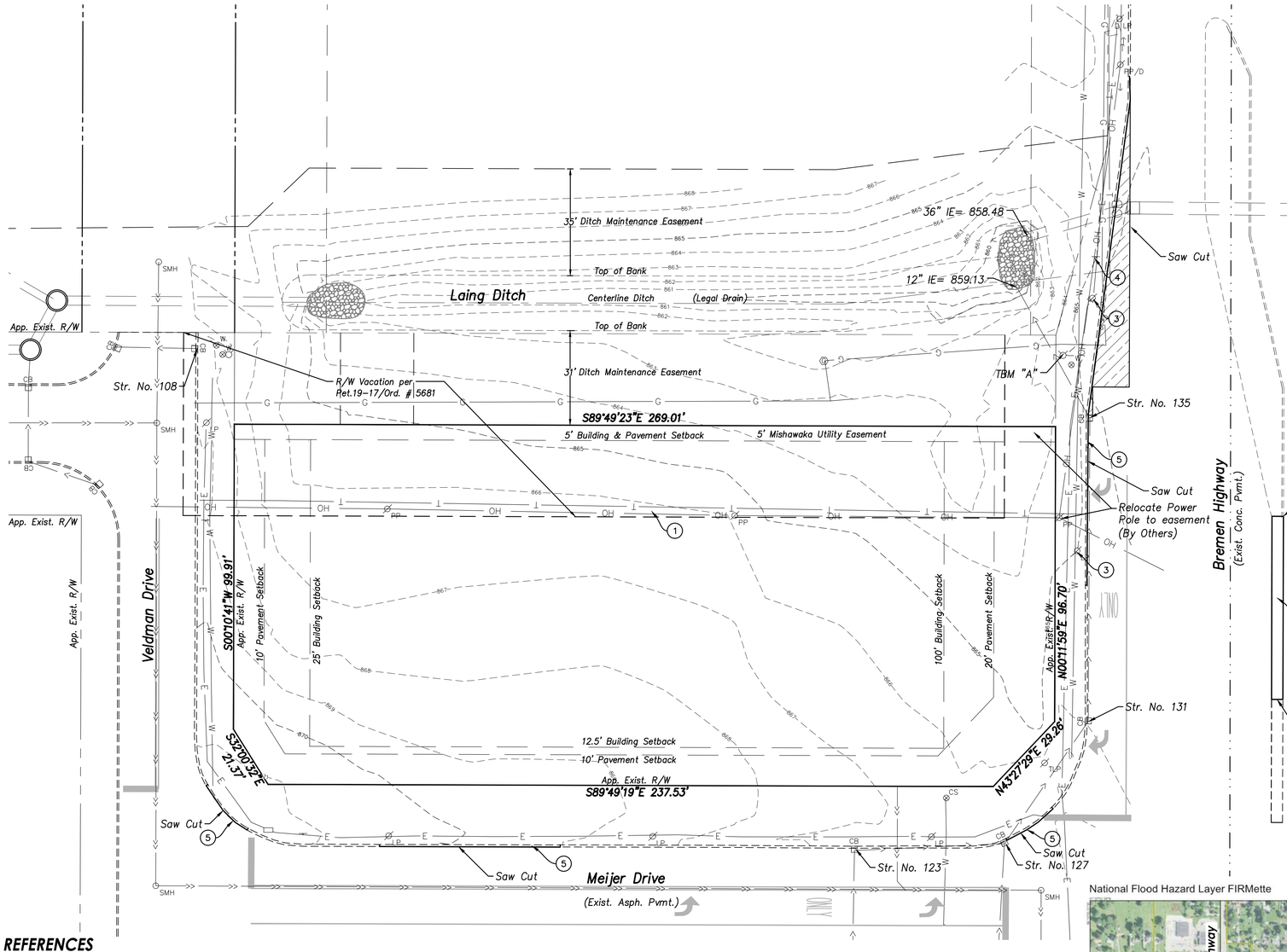
PROJECT:
TACO BELL
3615 BREMEN HIGHWAY
MISHAWAKA, INDIANA

SHEET TITLE:
CONSTRUCTION NOTES AND SPECIFICATIONS

DRAWN BY: DEF
DESIGNED BY: DEF
PM REVIEW: MJH
QA/QC REVIEW: RTN
DATE: 3-25-2020
SEAL:

ROGER T. NAWROT
REGISTERED
No. 60016991
STATE OF INDIANA
PROFESSIONAL ENGINEER

SIGNATURE:
DATE: 7–1–2020
SCALE:
HORZ:
VERT:
ACI JOB #
20-0205
SHEET NO.
C1.0



EXISTING STRUCTURE DATA

STR. NO. 108
Exist. CB
Rim=. 868.12
12" W= 865.98

STR. NO. 123
Exist. CB
Rim= 766.11
12" S= 862.26
12" E= 862.25

STR. NO. 127
Exist. CB
Rim=. 865.53
12" S= 861.90
12" W= 861.94
12" NE DI= 861.89

STR. NO. 131
Exist. CB
Rim= 865.32
12" SW DI= 861.49
12" N DI= 861.49

STR. NO. 135
Exist. CB
Rim= 864.45
12" S DI= 861.00
12" NW DI= 861.00

EXISTING FEATURES LEGEND

- Inlet/Catch Basin
- Water Valve
- Fire Hydrant
- Light Pole
- Telephone Marker
- Sanitary Manhole
- Storm Inlet
- Drywell
- Gas Line
- Overhead Electric Line
- Electric Line
- Telephone Line
- Sanitary Sewer
- Storm Sewer
- Water Main
- Contour

REMOVALS LEGEND

- Remove Existing Concrete Pavement
- (1) Existing electric and telephone to be relocated to 5' Indiana Michigan Power Company Easement (North edge of site) (By Others)
- (2) Relocate Power Pole 2' Behind Curb (By Others)
- (3) Relocate Light Pole 2' Behind Curb (By Others)
- (4) Relocate Sign Behind Curb
- (5) Remove Existing Curb
- (6) Remove Existing Concrete Center Curb

NOTES

1. Contractor shall request existing utility location from Indiana 811 prior to commencing construction.
2. Contractor shall notify the City of Mishawaka Department of Engineering prior to commencing construction within R/W.
3. Contractor shall remove topsoil and stockpile the material onsite at a location approved by the Owner.
4. Removed items shall be disposed off-site in accordance with all applicable local, state and federal codes.

SURVEY NOTES

1. Topographic survey data collection was performed in February, 2020.
2. The horizontal and vertical control datum for this survey is based on state plane coordinate system.

REFERENCES

1. ALTA Survey, Project No. 19-1474, Sheet 1 of 1, dated 11-5-19 by Michael Rozycki, PLS of Abonmarche Consultants, Inc.
2. Building footprint by Arcvision, Inc. St. Louis, MO.

CONTROL POINT DATA HORIZONTAL DATUM

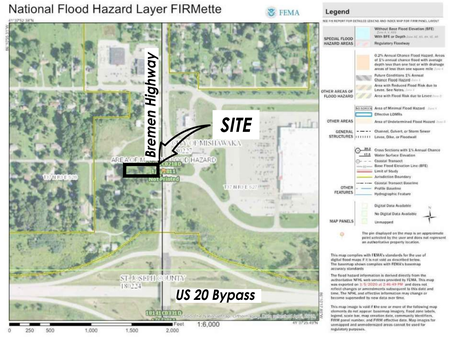
CONTROL POINT #10	SET REBAR WITH RED CAP "ABONMARCHE CONTROL POINT" LOCATED AT NE COR. OF BREMEN HWY & MEIJER DR., APPROX. 9' EAST OF TRAF. MH	2324016.7148	188691.1978	866.08

BENCHMARK DATA VERTICAL DATUM

TBM A	CHISELED "X" IN NE BOLT OF FIRE HYDRANT APPROX. 23' N OF NE COR. OF SITE	865.48
TBM B	CHISELED "X" IN NE BOLT OF FIRE HYDRANT LOCATED AT THE SE COR. OF BREMEN HWY & MEIJER DRIVE	866.53

FIRM Source
St. Joseph County, Indiana and Incorporated Areas
Map Number 18141C0218D
Effective Date January 2, 2011

National Flood Hazard Layer FIRMette



FEMA FLOOD INSURANCE RATE MAP (FIRM)

Scale: 1" = 500'

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 20 ft

2	UPDATE ADDRESS	DEF	8/10/20

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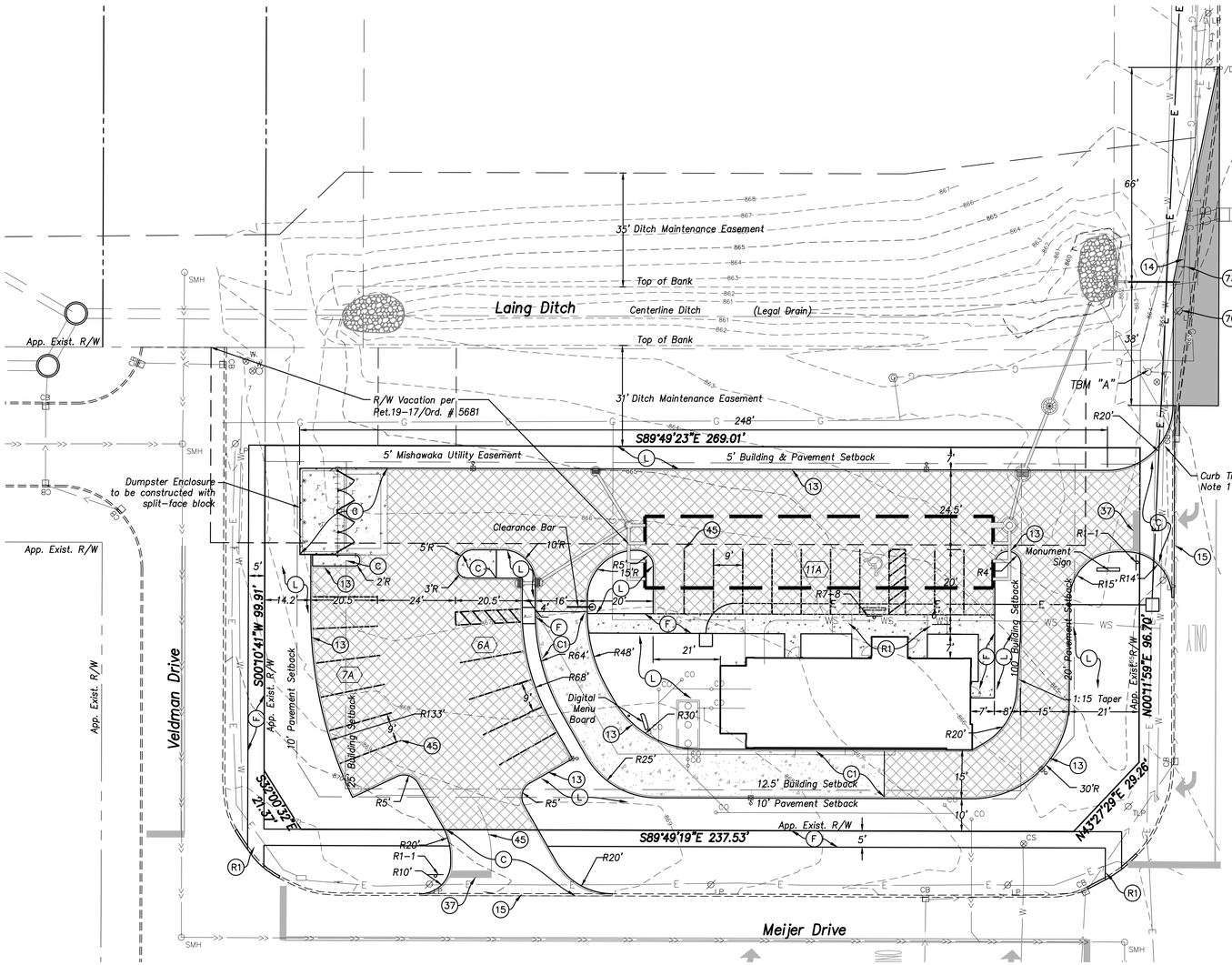
PROJECT:
TACO BELL
3615 BREMEN HIGHWAY
MISHAWAKA, INDIANA

SHEET TITLE:
EXISTING CONDITIONS & REMOVAL PLAN

DRAWN BY: DEF
DESIGNED BY: DEF
PM REVIEW: MJH
QA/QC REVIEW: RTN
DATE: 3-25-2020
SEAL:
ROGER T. NAWROT REGISTERED No. 60016991 STATE OF INDIANA PROFESSIONAL ENGINEER
SIGNATURE:
DATE: 7-1-2020
SCALE: HORZ: 1" = 20' VERT:
ACI JOB # 20-0205
SHEET NO. C2.0



Profile – Concrete Center Curb
Scale: ¼" = 1'-0"

PROPOSED FEATURES LEGEND

- Standard HMA Pavement: 1-1/2" HMA Surface (165 #/SY), 2-1/2" HMA Intermediate (275 #/SY), 8" Compacted #53 Aggregate Base
- PCCP, 10" on Subbase for PCCP
- (C) 8" Concrete Pavement on 4" compacted #53 aggregate base
- (C1) 6" 4,000 PSI Concrete with WWF on 6" compacted #53 aggregate base
- (F) 4" Concrete Sidewalk
- (L) Landscape Area; See Sheet C7.0
- (R1) Sidewalk Ramp, Type 1
- (13) Concrete Curb
- (14) Integral Concrete Curb, 8"
- (15) Combination Concrete Curb & Gutter, Depressed Curb
- (22) Concrete Center Curb, Type "C"
- (37) 24" White Paint Stop Line
- (45) 4" Solid White Paint Line
- (73) Relocate Sign
- (76) Relocate Light Pole
- (11A) Quantity of 9'x20' Auto Parking Spaces/Bay
- Int'l. Symbol of Access
- R1-1 MUTCD R-1 "STOP" Sign & Post
- R7-8 (ADA Access) Sign & Post
- Drainage Structure
- CO Clean out
- Light Pole

LEGAL DESCRIPTION:

A PARCEL LOCATED IN THE SOUTHEAST QUARTER OF SECTION 28, TOWNSHIP 37 NORTH, RANGE 3 EAST, CITY OF MISHAWAKA, PENN TOWNSHIP, ST. JOSEPH COUNTY, INDIANA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID QUARTER SECTION; THENCE SOUTH 00°19'19" EAST, 656.34 FEET TO A POINT ON THE CENTERLINE OF ELMWOOD AVENUE; THENCE SOUTH 89°49'23" WEST ALONG SAID CENTERLINE AND THE NORTH LINE OF A TRACT OF LAND CONVEYED TO CITY OF MISHAWAKA FOR RIGHT OF WAY DEDICATION AS DESCRIBED IN INSTRUMENT NUMBER 2019-18674, DEDICATION #1, ST. JOSEPH COUNTY RECORDER, A DISTANCE OF 57.31 FEET TO THE NORTHWEST CORNER OF SAID DEDICATION #1 AND BEING THE POINT OF BEGINNING; THENCE CONTINUING SOUTH 89°49'23" WEST ALONG SAID CENTERLINE 269.01 FEET TO THE NORTHEAST CORNER OF A TRACT OF LAND CONVEYED TO CITY OF MISHAWAKA FOR RIGHT OF WAY DEDICATION AS DESCRIBED IN INSTRUMENT NUMBER 2019-18674, DEDICATION #2, ST. JOSEPH COUNTY RECORDER; THENCE SOUTH 00°10'41" WEST, ALONG THE EAST LINE OF SAID DEDICATION #2 A DISTANCE OF 99.91 FEET; THENCE SOUTH 32°00'32" EAST ALONG AN EASTERLY LINE OF SAID DEDICATION #2 A DISTANCE OF 21.37 FEET; THENCE SOUTH 89°49'19" EAST ALONG THE NORTH LINE OF SAID DEDICATION #2 AND THE NORTH LINE OF A TRACT OF LAND CONVEYED TO CITY OF MISHAWAKA FOR RIGHT OF WAY DEDICATION AS DESCRIBED IN INSTRUMENT NUMBER 2019-18673, ST JOSEPH COUNTY RECORDER, A DISTANCE OF 237.53 FEET; THENCE NORTH 43°27'29" EAST ALONG THE WESTERLY LINE OF SAID CITY OF MISHAWAKA LAND AND THE WESTERLY LINE OF SAID DEDICATION #1 A DISTANCE OF 29.26 FEET; THENCE NORTH 00°11'59" EAST ALONG THE WEST LINE OF SAID DEDICATION #1 A DISTANCE OF 96.70 FEET TO THE POINT OF BEGINNING; CONTAINING 31,424 SQUARE FEET, MORE OR LESS, AND SUBJECT TO EASEMENTS, COVENANTS, AND RIGHTS OF WAY OF RECORD.

TABULATED DATA

PROPOSED BUILDING

Restaurant with Drive Thru	2,053 SF
TOTAL	2,053 SF

PROPOSED LOT COVERAGE	Area (SF)	% Coverage
Building Footprint	2,053	6.5%
Pavement & Sidewalk	18,242	58.1%
Open/Landscape Area	11,121	35.4%
TOTAL	31,416 (0.72 Ac)	100.0%

PARKING SUMMARY

AUTOMOBILE PARKING SPACES REQUIRED

- Restaurant with Drive Thru: 15 Space/1,000 GSF = (15 Space) x (2,053 SF)/1,000 = 30 Spaces

Total 30 Automobile Spaces Required

TOTAL PARKING SPACES PROVIDED

- Automobile: 24 Spaces (Incl. 1 ADA Accessible)
- See Note 5

GENERAL NOTES

1. Current Zoning: City of Mishawaka S2 PUD.
2. Existing Land Use: Vacant / Proposed Land Use: Restaurant with Drive Thru.
3. Building and parking setbacks in accordance with the S-2 PUD conditions and development regulations (Ord. 5057) and/or the C-7 Auto-Oriented Restaurant Commercial District, when applicable.
4. The building will be serviced by City of Mishawaka municipal water and sewer.
5. Variance to reduce required parking to 24 spaces was approved by the City of Mishawaka BZA Appeal 20-02 on February 11, 2020.
6. Landscaping, lighting & signage will be in accordance with the zoning ordinance unless the proper variances are obtained.
7. Storm water will be collected on-site by the Owner.
8. See Sheet C1.0 for Site Plan Construction Notes. See Sheet C8.0-C8.2 for Construction Details.
9. See Architectural Drawings for building layout, foundations, wiring, etc.
10. The approach and deceleration lane have been designed in accordance with the Mishawaka Engineering Standards for a commercial drive approach Type 1A with a posted speed limit of 40 mph on Bremen Highway.
11. The 6" concrete curb shall transition to the 8" Integral Concrete Curb through the concrete approach.
12. Proposed Building will be one-story in height.

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 20 ft

2	UPDATE ADDRESS	DEF	8/10/20
1	REVISE PAVEMENT MATERIAL IN DRIVE THRU	DEF	7/24/20

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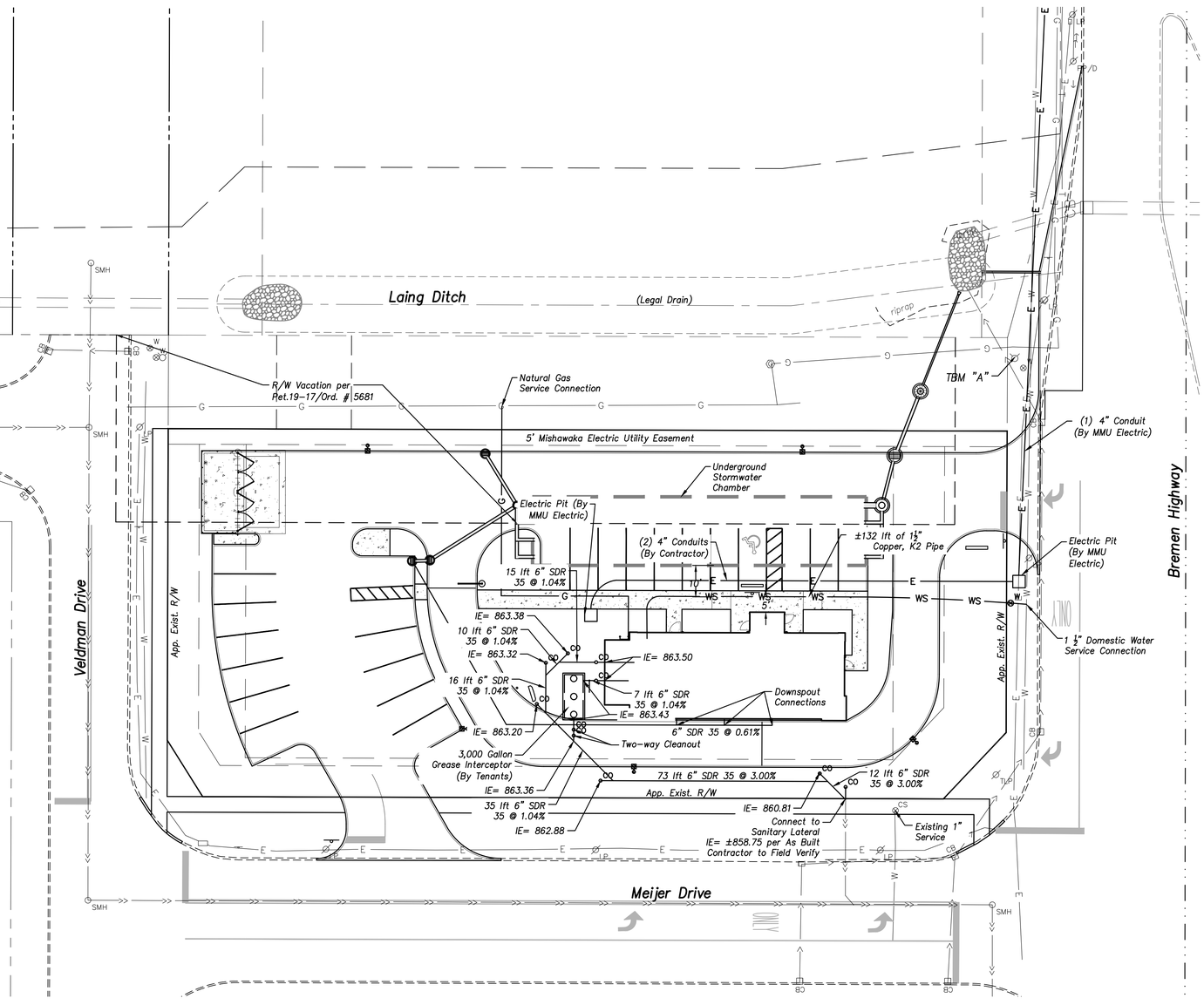
PROJECT:
TACO BELL
3615 BREMEN HIGHWAY
MISHAWAKA, INDIANA

SHEET TITLE:
SITE PLAN

DRAWN BY: DEF
DESIGNED BY: DEF
PM REVIEW: MJH
QA/QC REVIEW: RTN
DATE: 3-25-2020
SEAL:
ROGER T. NAWROT, REGISTERED, No. 60016991, STATE OF INDIANA, PROFESSIONAL ENGINEER
SIGNATURE:
DATE: 7-1-2020
SCALE: HORZ: 1" = 20' VERT:
ACI JOB #: 20-0205
SHEET NO.: C3.0



EXISTING FEATURES LEGEND

- Inlet/Catch Basin
- Water Valve
- Fire Hydrant
- Light Pole
- Telephone Marker
- Sanitary Manhole
- Storm Inlet
- Drywell
- Gas Line
- Overhead Electric Line
- Electric Line
- Telephone Line
- Sanitary Sewer
- Storm Sewer
- Water Main

PROPOSED FEATURES LEGEND

- Drainage/Sewer Structure
- Clean-out
- Water Valve
- Storm Sewer
- 6" SDR 35 PVC Sanitary Sewer Service
- Water Service
- Gas Service
- Electric Service
- Telephone Service
- Cable TV Service
- Fiber Optics Service
- Light Pole

GENERAL NOTES

1. See Drainage Plan, Sheet C6.0, for structure notes with pipe lengths and invert elevations.
2. See Sheet C1.0 for Utilities Plan Construction Notes.
3. See Erosion Control, Sheets C9.0– C9.1.
4. A qualified soil testing firm approved by the Owner shall perform compaction testing.
5. XFMR doors for the electric cabinet to open to the north.

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

Grease Trap Sizing

Grease Trap Sizing conforms to the requirements set forth by the City of Mishawaka.

Assumptions:
- Building will be a Fast Casual Restaurant (Peak Factor = 1.33)
- Building will have a commercial kitchen with dishwashing machines (Waste Flow Rate Factor = 6)
- Building will have commercial kitchen waste (Retention Time = 2.4)
- Building will have a 24–hour operation (Storage Factor = 3)

Approximate Restaurant Seating = 35 seats

Required = (35 seats x 1.33) x 6 x 2.4 x 3 = 2,011 gallons

Provided = 3,000 gallons

2	UPDATE ADDRESS	DEF	8/10/20

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Engineering Architecture Land Surveying
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PROJECT:
TACO BELL
3615 BREMEN HIGHWAY
MISHAWAKA, INDIANA

SHEET TITLE:
UTILITIES PLAN

DRAWN BY: DEF
DESIGNED BY: DEF
PM REVIEW: MJH
QA/QC REVIEW: RTN
DATE: 3-25-2020
SEAL:

ROGER T. NAWROT
REGISTERED
No. 60016991
STATE OF INDIANA
PROFESSIONAL ENGINEER

SIGNATURE:
DATE: 7-1-2020
SCALE:
HORZ: 1" = 20'
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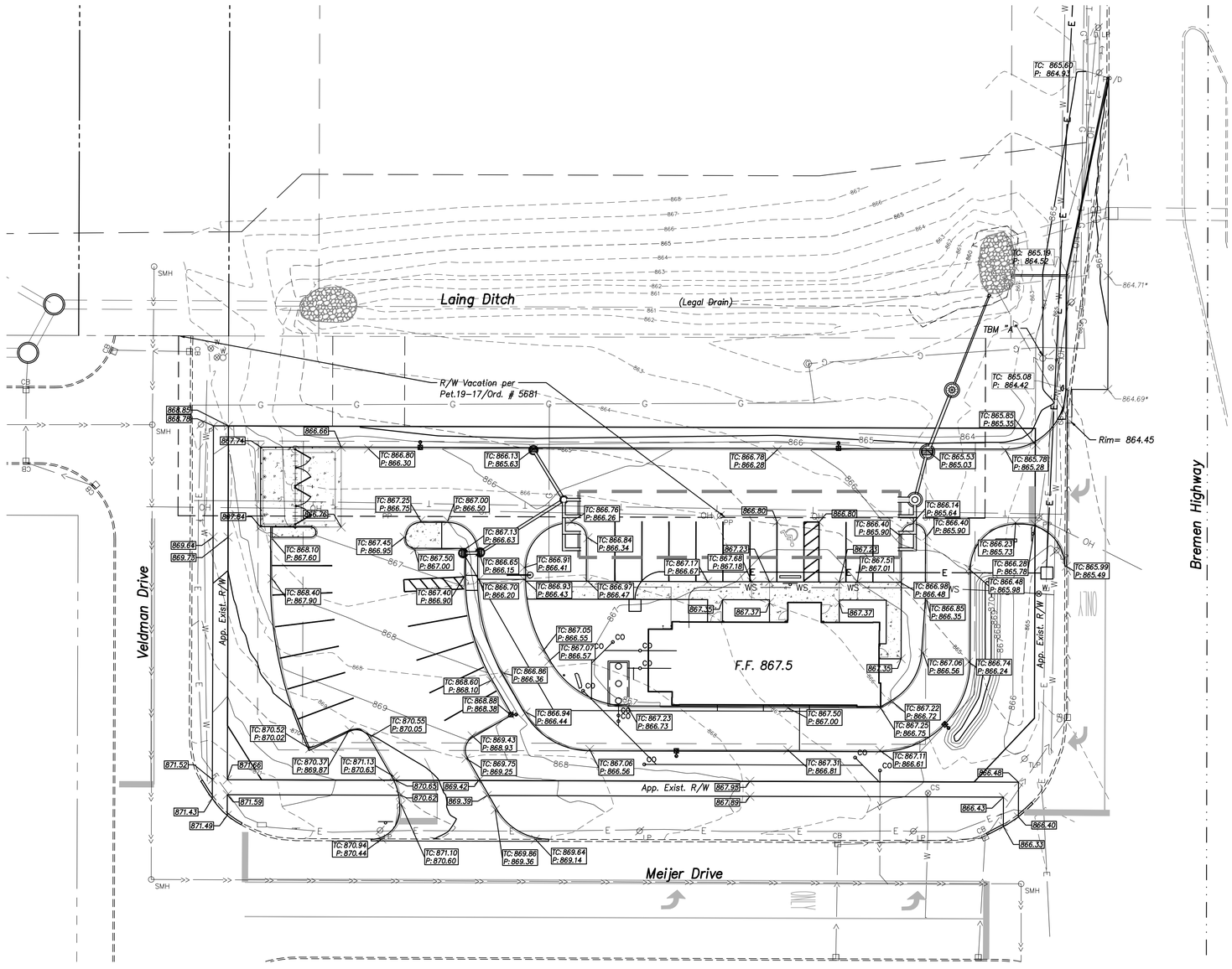
ACI JOB #
20-0205
SHEET NO.
C4.0



EXISTING FEATURES LEGEND

- Inlet/Catch Basin
- Water Valve
- Fire Hydrant
- Light Pole
- Telephone Marker
- Sanitary Manhole
- Contour

PROPOSED FEATURES LEGEND

- Drainage Structure
- TC: 745.00 / P: 744.50 — Top of Curb Elevation / Finished Pavement Elevation
- XXX.XX — Finished Pavement Elevation
- XXX.XX* — Existing Elevation (Match)
- 748 — Contour
- (T) 9' Wide Flush Curb for Mower Access to Lawn; Taper Curb @ Each End

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

2	UPDATE ADDRESS	DEF	8/10/20

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Engineering Architecture Land Surveying

PROJECT:

TACO BELL
3615 BREMEN HIGHWAY
MISHAWAKA, INDIANA

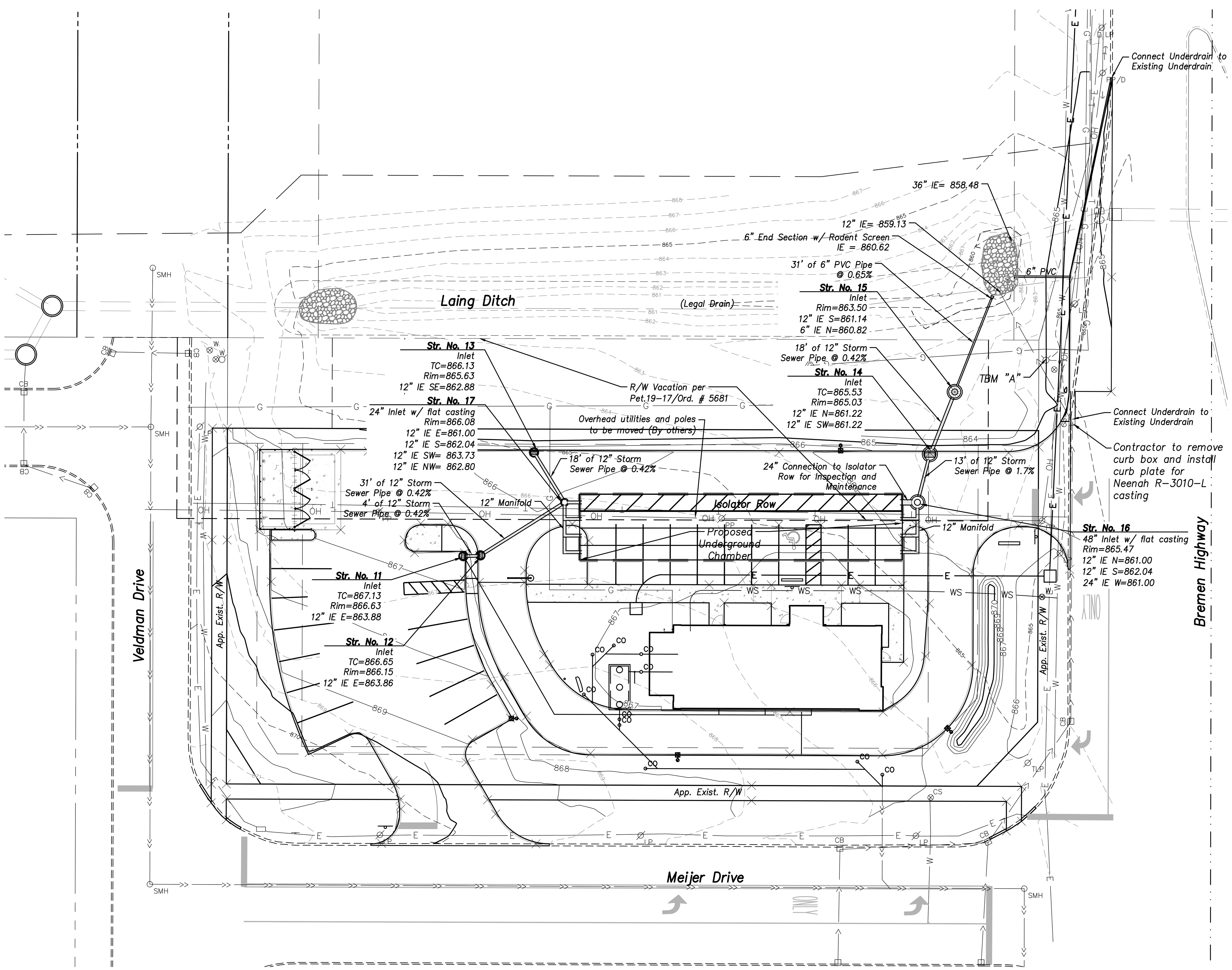
SHEET TITLE:

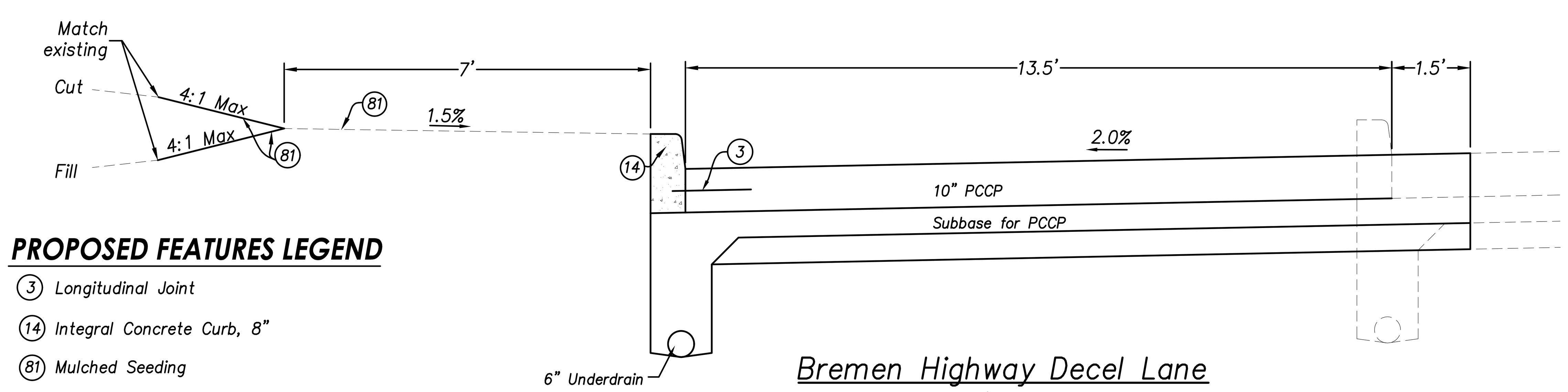
GRADING PLAN

DRAWN BY: DEF
DESIGNED BY: DEF
PM REVIEW: MJH
QA/QC REVIEW: RTN
DATE: 3-25-2020
SEAL:

ROGER T. NAWROT REGISTERED No. 60016991 STATE OF INDIANA PROFESSIONAL ENGINEER

SIGNATURE:
DATE: 7-1-2020
SCALE:
HORZ: 1" = 20'
VERT:
ACI JOB #
20-0205
SHEET NO.
C5.0





PROPOSED FEATURES LEGEND

(3) Longitudinal Joint

(14) Integral Concrete Curb, 8"

(81) Mulched Seeding

Bremen Highway Decel Lane

Scale: $\frac{1}{2}$" = 1'-0"

Per Elmwood Avenue Realignment Plans by Abonmarche Consultants, Inc. March 14, 2019.

Taco Bell

Design Return Period 100 years

Watershed Area 0.72 acres

Developed Runoff Coefficient 0.72

Release Rate:

Total Release Rate **0.45 cfs**

Storm Duration (hrs)	100-Year Intensity (in/hr)	Inflow Rate (cfs)	Release Rate (cfs)	Storage Rate (cfs)	Required Storage (acre-feet)	Storage w/ Silt. Factor (1.06)	Required Storage (cft)
0.08	9.84	5.10	0.45	4.65	0.03	0.03	1,432
0.17	7.38	3.83	0.45	3.38	0.05	0.05	2,208
0.25	6.12	3.17	0.45	2.72	0.06	0.06	2,619
0.33	5.58	2.89	0.45	2.44	0.07	0.07	3,102
0.5	4.42	2.29	0.45	1.84	0.08	0.08	3,543
0.67	3.92	2.03	0.45	1.58	0.09	0.09	4,079
0.83	3.46	1.79	0.45	1.34	0.09	0.10	4,291
1	2.96	1.53	0.45	1.08	0.09	0.10	4,173
1.5	2.42	1.25	0.45	0.80	0.10	0.11	**4,643**
2	1.87	0.97	0.45	0.52	0.09	0.09	3,997
3	1.35	0.70	0.45	0.25	0.06	0.07	2,884
6	0.81	0.42	0.45				
9	0.72	0.37	0.45				
12	0.63	0.33	0.45				
24	0.26	0.13	0.45				

Required Storage **0.11** **4,643 cft**

Available Storage

Proposed Underground Chamber

Total Volume 4,648 cft

Time for Required Storage to Infiltrate Soil

2.87 hrs

Total Available Storage **4,648 cft** **0.11 acre-ft**

Drainage Calculations

Drainage Design conforms to the requirements set forth by the St. Joseph County. Storm Drainage System is designed to retain all post development storm water on the developed site for a 100 year, 24 hour storm event plus 6% for siltation.

Site Coverage

Impervious Surfaces (C =0.90) = 0.47 acres

Open Area (C=0.20) = 0.25 acres

Total = 0.72 acres

Modified Runoff Coefficient – Developed Area

(0.47 acres x 0.90) + (0.25 acres x 0.20)

0.72 acres

Detention Sizing

100 Year, 24 Hour Storm Intensity

Intensity Reference: National Oceanic and Atmospheric Administration (NOAA)

Developed Catchment Area, Total (C=0.73) = 0.72 acres

From Detention Analysis (Above),

Storage Required = 4,643 cft < 4,648 cft = Storage Provided

Allowable Release Rate

Pre–development area = 0.72 acres

i = 10 year 27 min. = 3.13"/hour

Q = CIA

Q = (0.2)(3.13)(0.72)

Q = 0.45 cfs

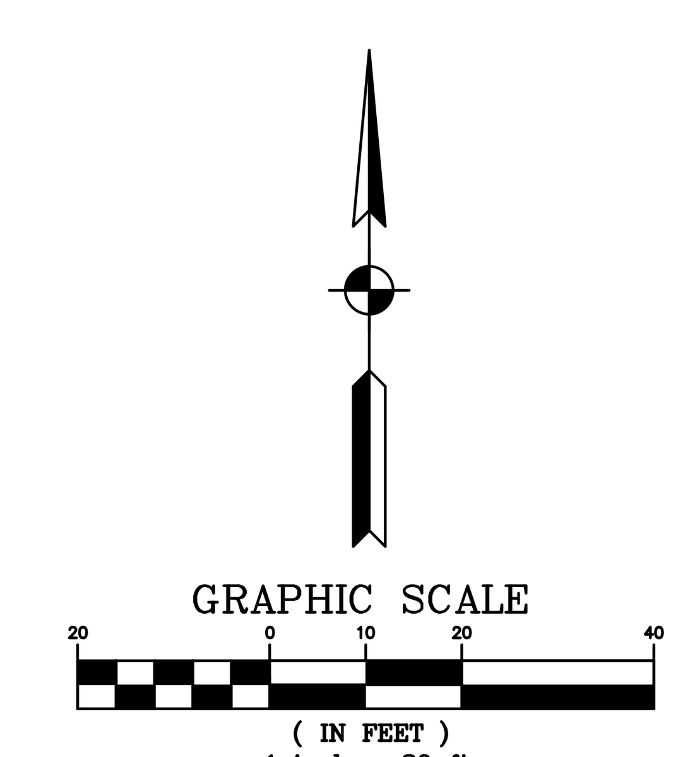
Groundwater Elevation

Soil borings completed by GME Testing May 29, 2020.

Existing groundwater elevation measured at 845±.

Note

1. The St. Joseph County Drainage Board approved discharge into the Laing Ditch at it's July 6, 2020 meeting.
2. Storm sewer pipe is ADS N–12 or approved equal.
3. Flat casting is Neenah R–1642 or approved equal.



2	UPDATE ADDRESS	DEF	8/10/20
1	MODIFICATION TO UG CHAMBER & STORM SEWER	DEF	7/16/20

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PROJECT:

TACO BELL
3615 BREMEN HIGHWAY
MISHAWAKA, INDIANA

SHEET TITLE:

DRAINAGE PLAN

DRAWN BY: DEF

DESIGNED BY: DEF

PM REVIEW: MJH

QA/QC REVIEW: RTN

DATE: 3-25-2020

SEAL: ROGER T. NAWROT REGISTERED No. 60016991 STATE OF INDIANA PROFESSIONAL ENGINEER

SIGNATURE:

DATE: 7–1–2020

SCALE: HORZ: 1" = 20' VERT:

ACI JOB #: 20-0205

SHEET NO.: C6.0

ADVANCED DRAINAGE SYSTEMS, INC.

SiteASSIST for StormTech — FOR STORMTECH INSTRUCTIONS, DOWNLOAD THE INSTALLATION APP

Bremen Highway Taco Bell

Mishawaka, IN

STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740, SC-310, OR APPROVED EQUAL.
2. CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS.
3. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
5. CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
7. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
   a. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
   b. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
   c. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
8. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM

1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.

   STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

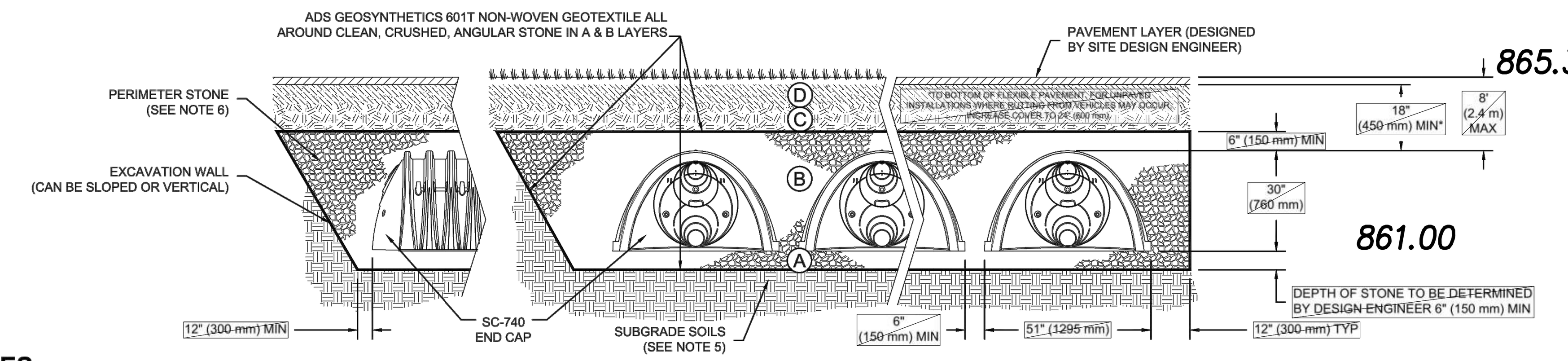
USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. [2] [3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

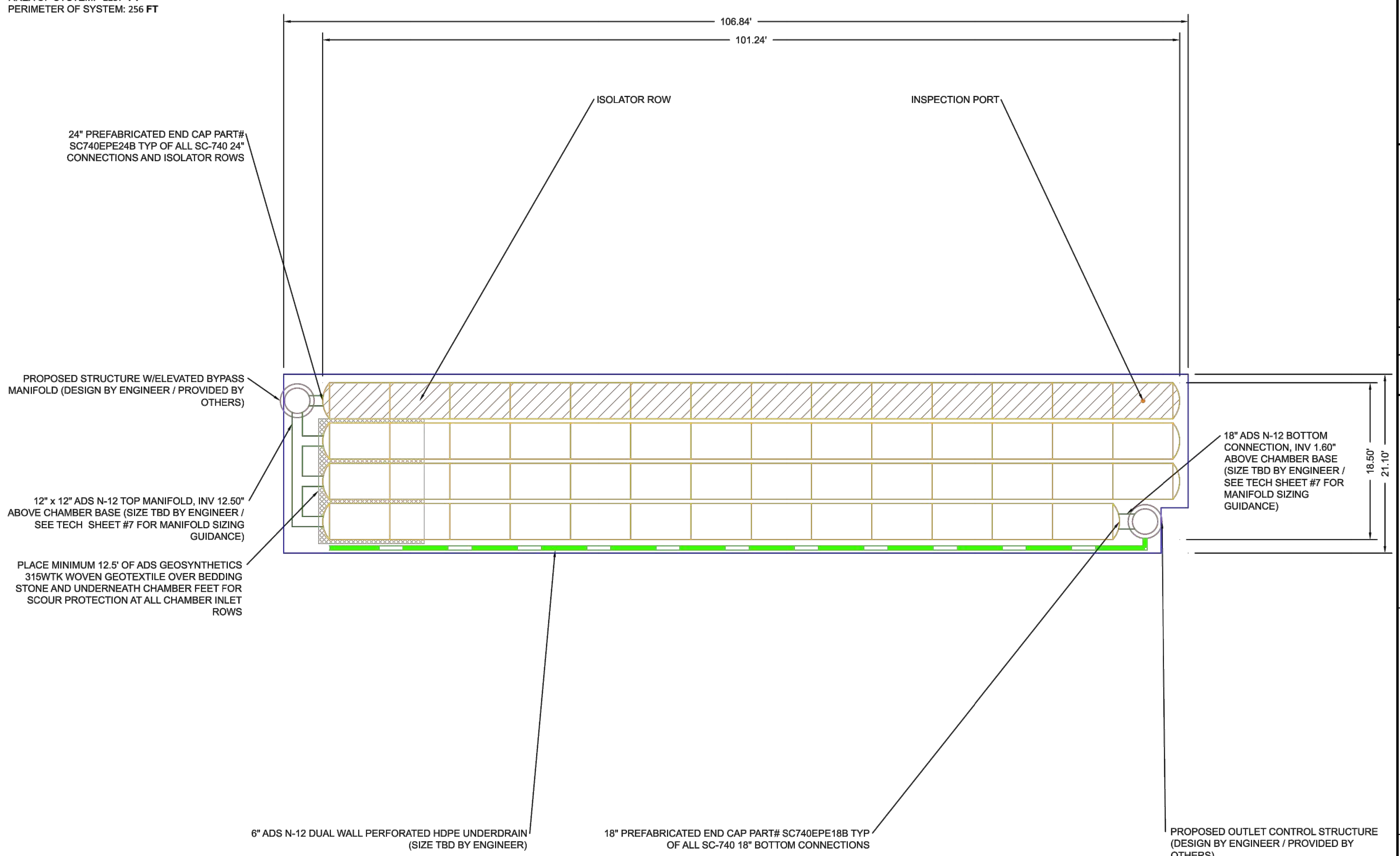
1. SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
4. THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
5. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
6. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
7. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

Bremen Highway Taco Bell, Mishawaka, IN — DATE: 03/04/2020 — DRAWN: DF — PROJECT #: Tool — CHECKED: --- — SHEET 3 OF 5

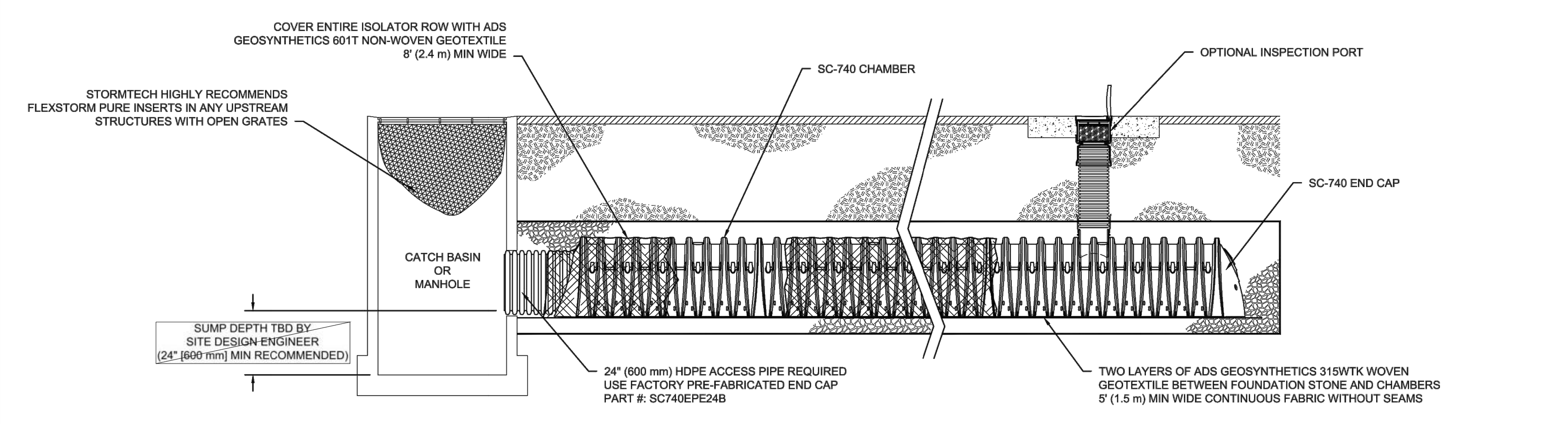
CONCEPTUAL LAYOUT

(55) STORMTECH SC-740 CHAMBERS
(8) STORMTECH SC-740 END CAPS
INSTALLED WITH 6 " COVER STONE, 6 " BASE STONE, 40% STONE VOID
INSTALLED SYSTEM VOLUME: 4648 CF
AREA OF SYSTEM: 2237 FT²
PERIMETER OF SYSTEM: 256 FT

COMPUTER GENERATED CONCEPTUAL LAYOUT - NOT FOR CONSTRUCTION



Bremen Highway Taco Bell, Mishawaka, IN — DATE: 03/04/2020 — DRAWN: DF — PROJECT #: Tool — CHECKED: --- — NOT TO SCALE — SHEET 2 OF 5



SC-740 ISOLATOR ROW DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

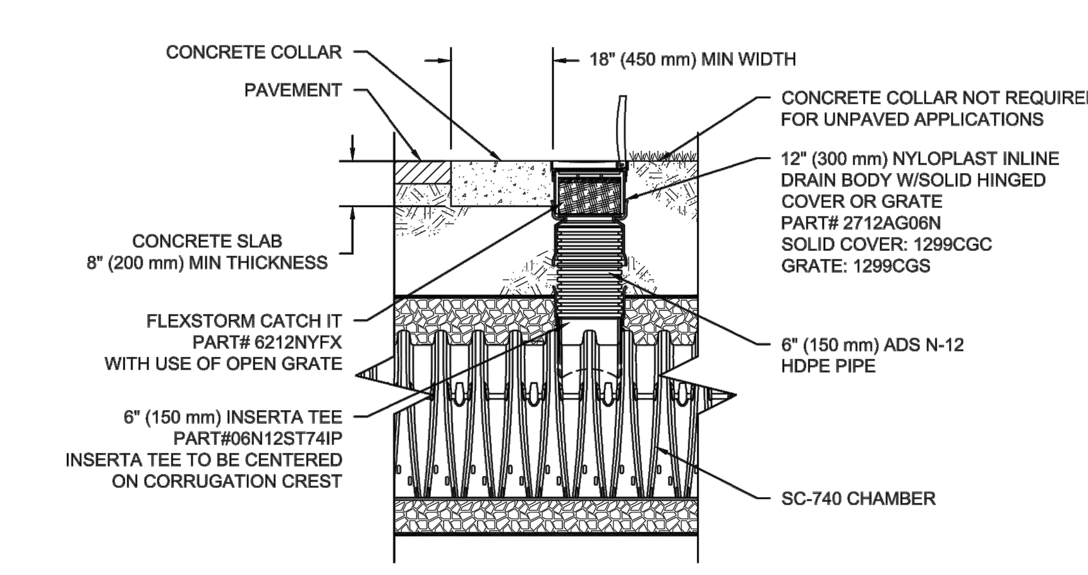
STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



SC-740 6" INSPECTION PORT DETAIL
NTS

Bremen Highway Taco Bell, Mishawaka, IN — DATE: 03/04/2020 — DRAWN: DF — PROJECT #: Tool — CHECKED: --- — SHEET 4 OF 5

StormTech — Detention • Retention • Water Quality — 70 INWOOD ROAD, SUITE 3 | ROCKY HILL | CT | 06067 — 860-529-8188 | 888-892-2694 | WWW.STORMTECH.COM
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2	UPDATE ADDRESS		DEF	8/10/20

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PROJECT: **TACO BELL, 3615 BREMEN HIGHWAY, MISHAWAKA, INDIANA**

SHEET TITLE: **CHAMBER DETAILS**

DRAWN BY: DEF
DESIGNED BY: DEF
PM REVIEW: MJH
QA/QC REVIEW: RTN
DATE: 3-25-2020
SEAL: ROGER T. NAWROT — REGISTERED No. 60016991 — STATE OF INDIANA — PROFESSIONAL ENGINEER
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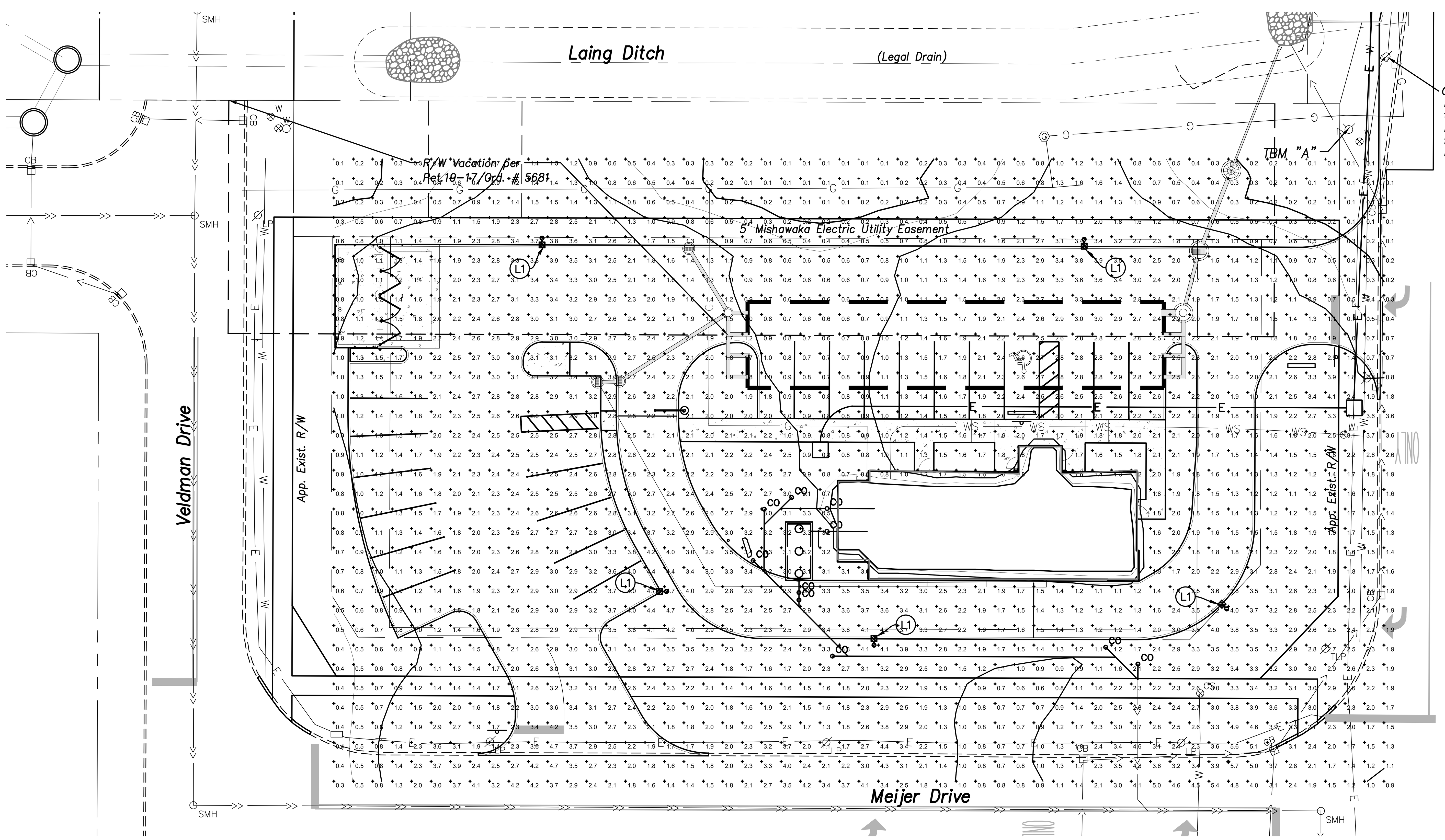


LEGEND

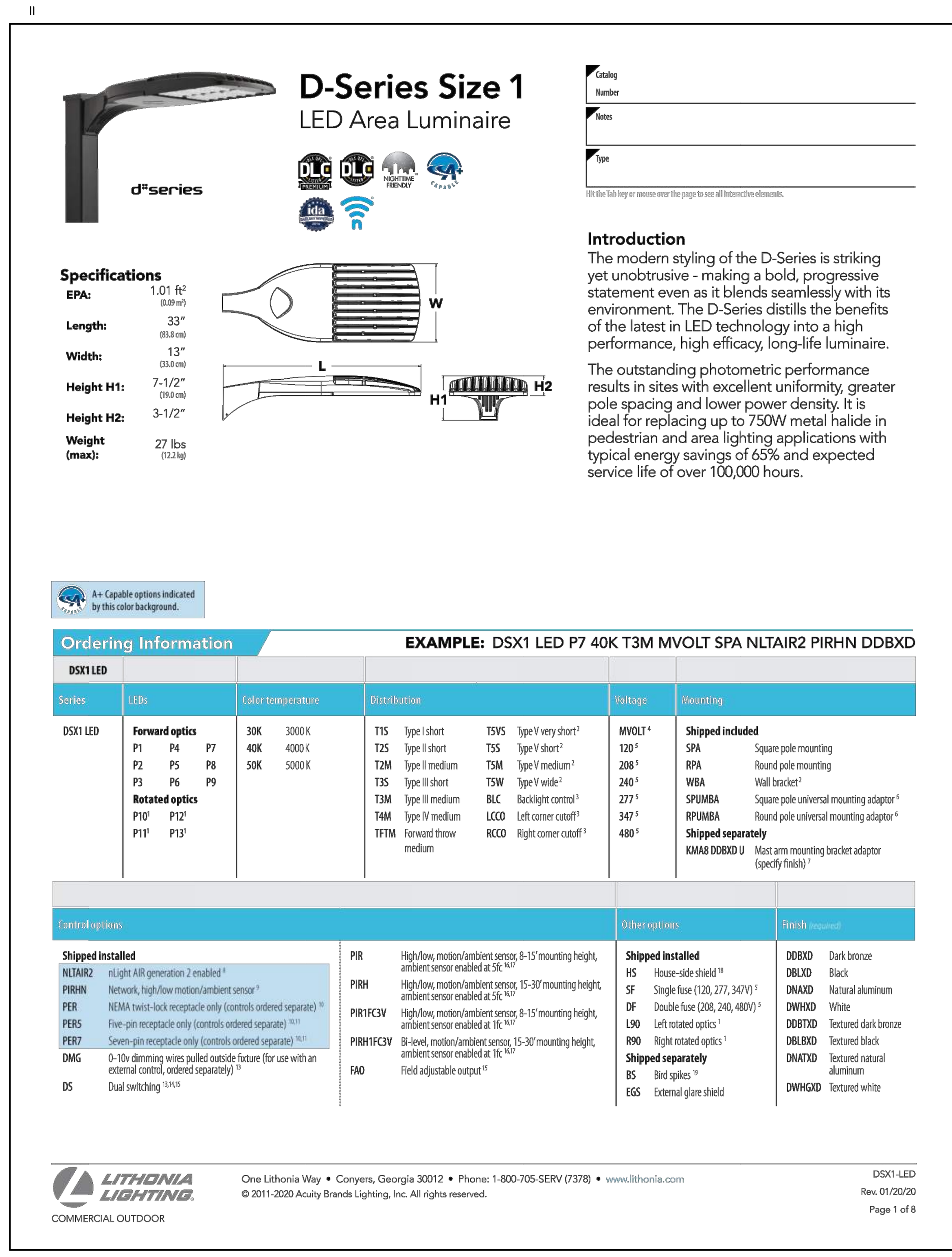
(L1) SITE AREA LIGHTS (SPILL CONTROL)

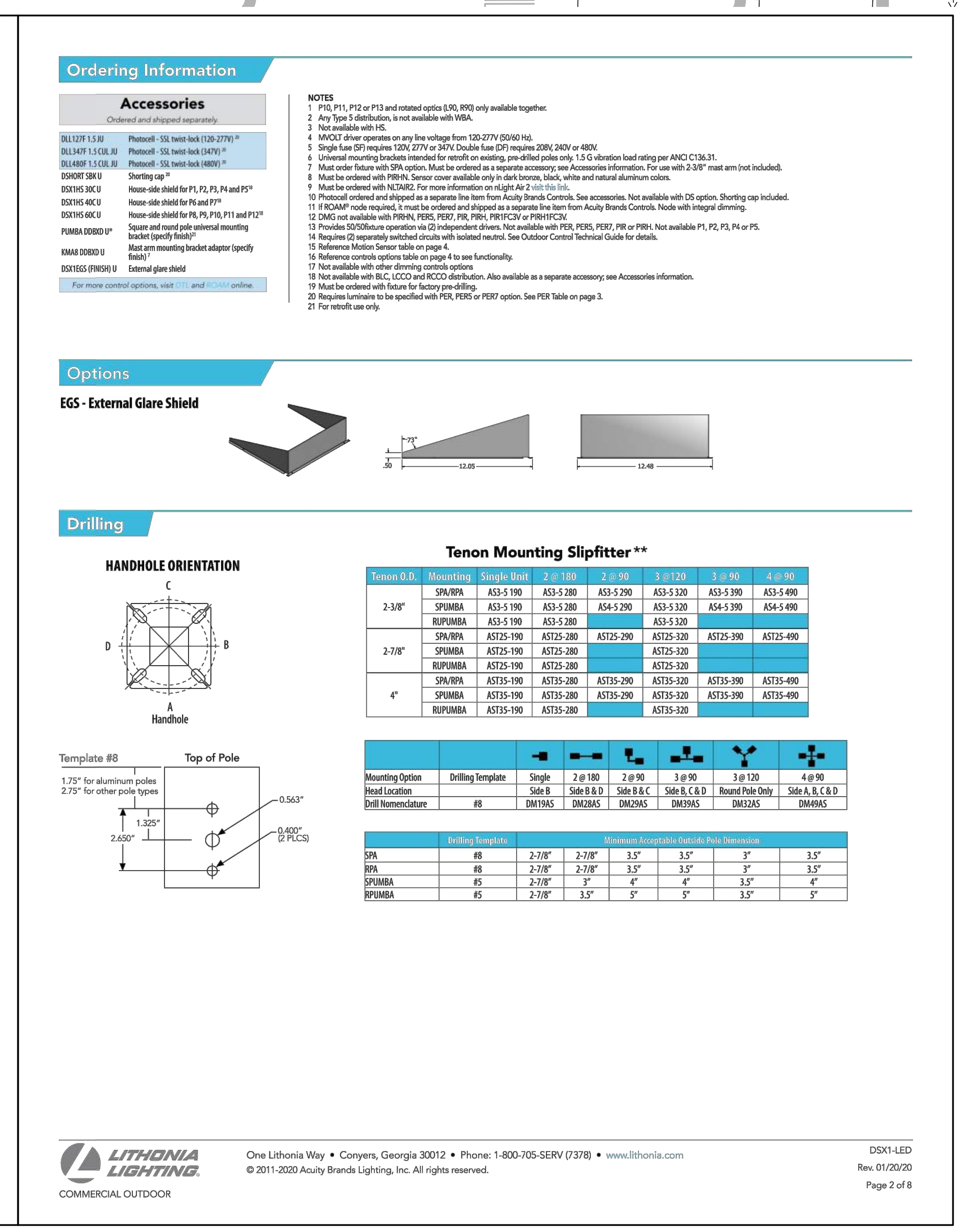
LUMINAIRE SCHEDULE

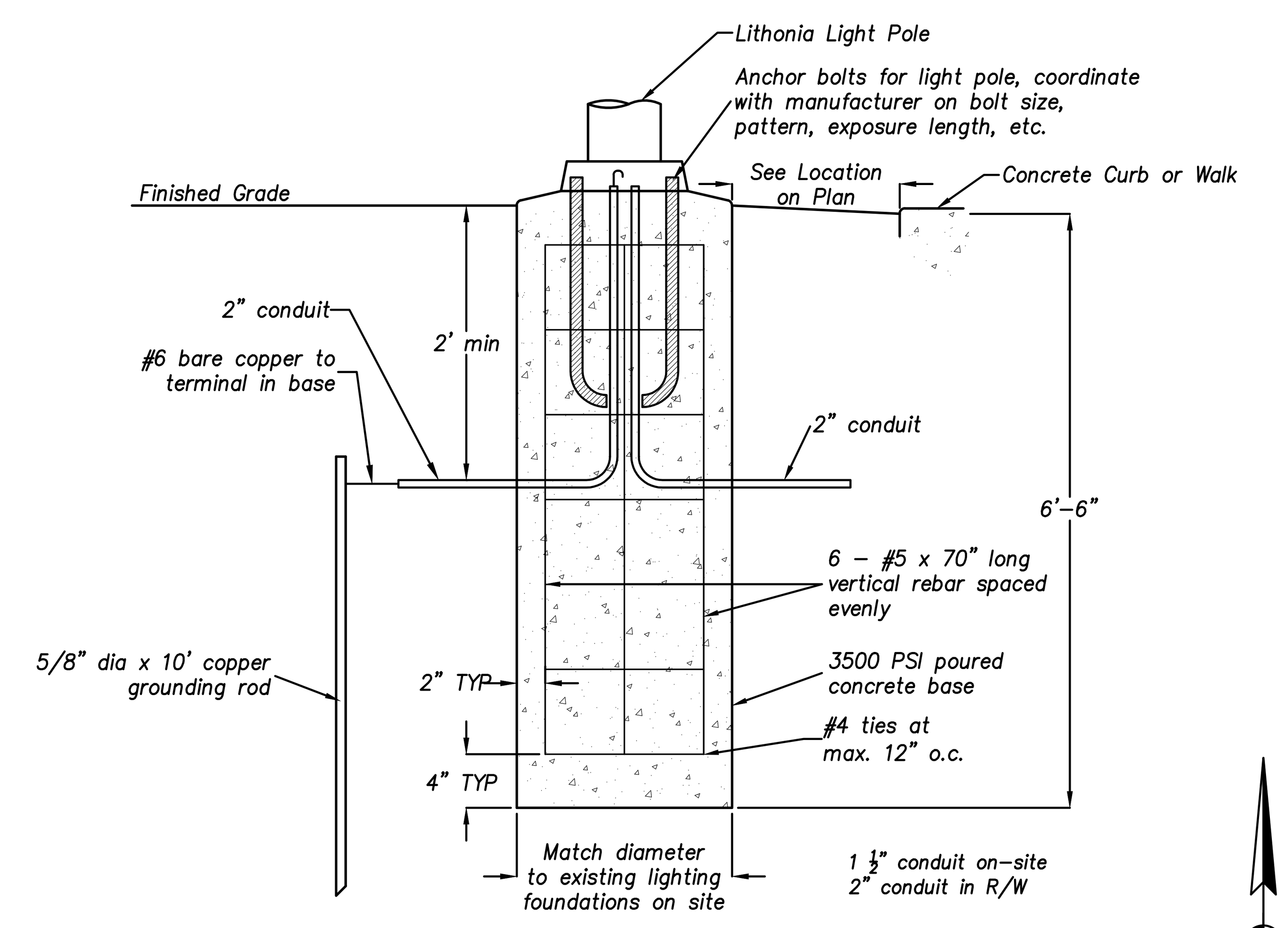
QTY	SYMBOL	MODEL NUMBER AND DESCRIPTION
5	L1	DSX1 LED P1 30K T2S MVOLT HS DSX1 LED P1 30K T2S MVOLT WITH HOUSE SHIELD TYPE II SPILL CONTROL MOUNTING HEIGHT = 25'

NOTES

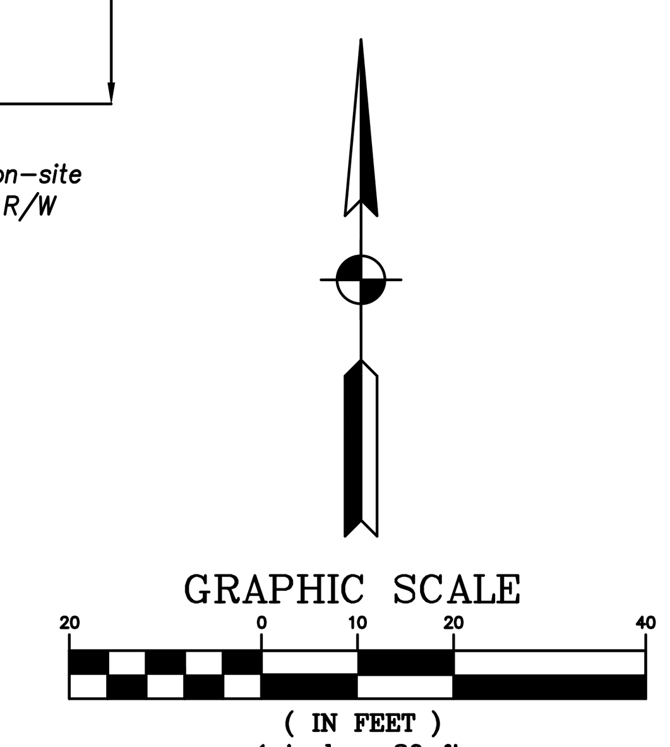
1. LUMINAIRES ARE MANUFACTURED BY LITHINIA LIGHTING. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
2. ALL WIRE SHALL BE 4–1/C NO. 10 THW COPPER WIRE IN 1 ½" PVC SCHEDULE 80 CONDUIT FROM THE ELECTRICAL SERVICE PANEL TO THE LIGHTING FOUNDATION AND IN THE POLES TO THE LUMINAIRES. THERE WILL BE NO UNDERGROUND SPLICES ALLOWED AND ALL WIRE SPLICES SHALL BE IN THE POLE BASES.
3. COVERS FOR LIGHTING PULL BOXES SHALL BE WATERPROOF AND BEAR THE WORD "LIGHTING" ON THE COVER.
4. LUMINAIRE POLES SHALL BE FIELD VERIFIED AND APPROVED BY ENGINEER PRIOR TO ORDERING MATERIALS OR PLACING FOUNDATIONS.
5. LUMINAIRE POLES SHALL BE LOCATED 2' BEHIND BACK OF CURB, UNLESS OTHERWISE NOTED.
6. FOUNDATIONS SHALL LEVEL WITH ADJACENT FINISHED GRADE AND HEIGHT ABOVE FINISHED GRADE SHALL MATCH EXISTING LUMINAIRE FOUNDATIONS.
7. FIXTURE ORIENTATION SHALL BE PERPENDICULAR TO THE ADJACENT PAVEMENT UNLESS OTHERWISE NOTED ON PLANS. ORIENTATION OF POLES SHALL BE FIELD VERIFIED AND APPROVED BY ENGINEER PRIOR TO INSTALLATION.
8. ALL SITE LIGHTING SHALL BE LIMITED TO 25' IN HEIGHT, 90° CUT-OFF FIXTURES SHALL BE REQUIRED FOR BOTH POLE AND WALL MOUNTED FIXTURES. SHIELDING OF LIGHTING SHALL BE REQUIRED IN THE AREAS ADJACENT TO (IN SIGHT OF) RESIDENTIAL AREAS. LIGHTING WITHIN 50' OF RESIDENTIALLY ZONED PROPERTY SHALL BE LIMITED TO 15' IN HEIGHT.







TYPICAL LIGHT POLE FOUNDATION DETAIL
–NOT TO SCALE–



2	UPDATE ADDRESS	DEF	8/10/20

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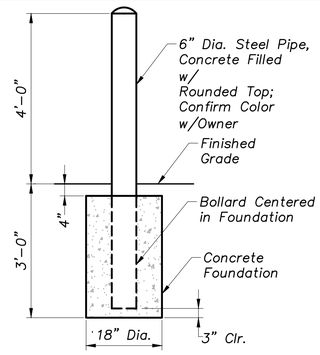
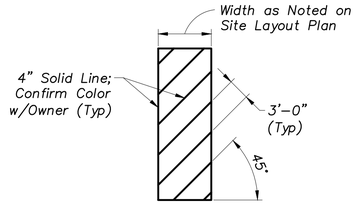
PROJECT:
TACO BELL
3615 BREMEN HIGHWAY
MISHAWAKA, INDIANA

SHEET TITLE:
LIGHTING PLAN

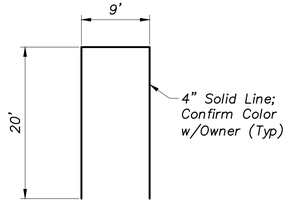
DRAWN BY: DEF
DESIGNED BY: DEF
PM REVIEW: MJH
QA/QC REVIEW: RTN
DATE: 3-25-2020
SEAL: ROGER T. NAWROT REGISTERED No. 60016991 STATE OF INDIANA PROFESSIONAL ENGINEER
SIGNATURE:
DATE: 7-1-2020
SCALE:
HORZ: 1" = 20'
VERT:
ACI JOB #
20-0205
SHEET NO.
C7.1



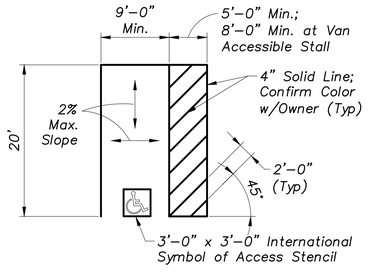
PIPE BOLLARD
(NOT TO SCALE)



PAVEMENT MARKINGS: CROSSWALK & NO ACCESS AREA
(NOT TO SCALE)

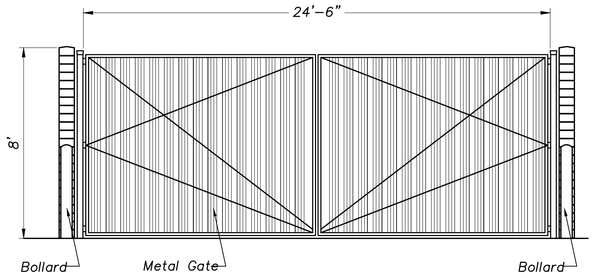


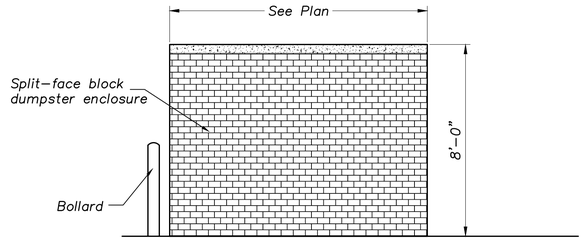
STANDARD SPACE



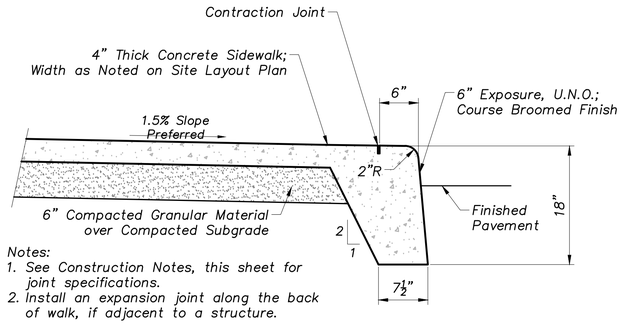
ADA ACCESSIBLE SPACE

PAVEMENT MARKINGS: TYPICAL PARKING SPACE
(NOT TO SCALE)



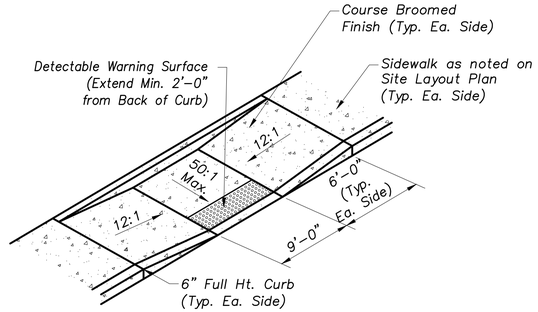


DUMPSTER ENCLOSURE ELEVATIONS
(NOT TO SCALE)



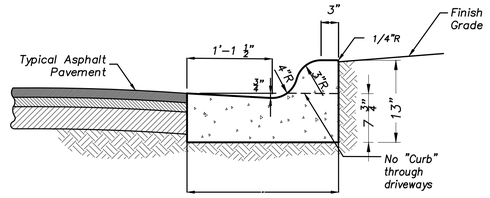
Notes:
1. See Construction Notes, this sheet for joint specifications.
2. Install an expansion joint along the back of walk, if adjacent to a structure.

CONCRETE SIDEWALK WITH INTEGRAL CURB
(NOT TO SCALE)

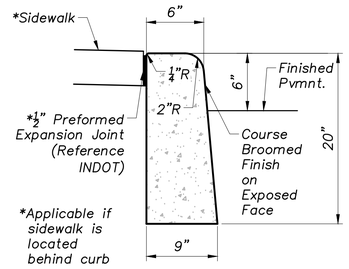


RAMP ISOMETRIC

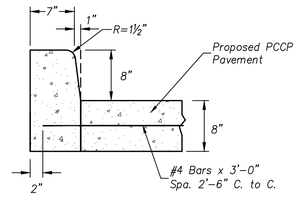
SIDEWALK CURB RAMP
(NOT TO SCALE)



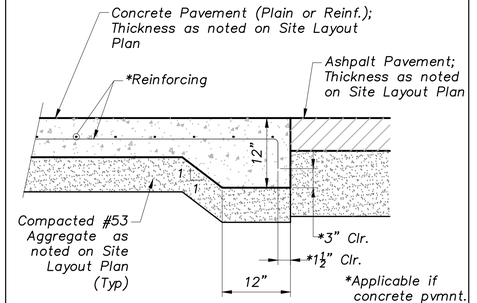
COMBINATION CURB & GUTTER
(NOT TO SCALE)



CONCRETE CURB
(NOT TO SCALE)

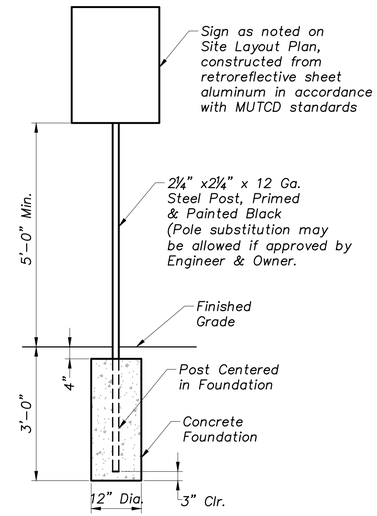


INTEGRAL CONCRETE CURB, 8"
Scale: 1" = 1'



Note: Thicken edge of concrete as shown at transitions from concrete to asphalt pavement.

CONCRETE PAVEMENT THICKENED EDGE
(NOT TO SCALE)



TYPICAL SIGN & POST
(NOT TO SCALE)

2	UPDATE ADDRESS	DEF	8/10/20
RNUM	RDESC	RBY	RDATE

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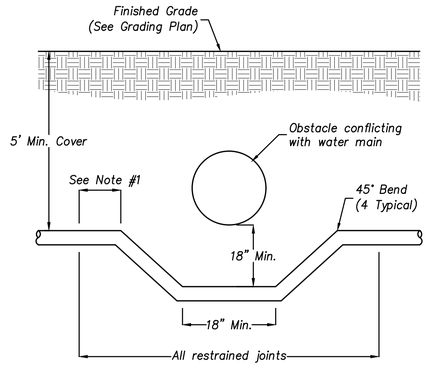
PROJECT:
TACO BELL
3615 BREMEN HIGHWAY
MISHAWAKA, INDIANA

SHEET TITLE:
GENERAL DETAILS

DRAWN BY: DEF
DESIGNED BY: DEF
PM REVIEW: MJH
QA/QC REVIEW: RTN
DATE: 3-25-2020
SEAL:

ROGER T. NAWROT REGISTERED No. 60016991 STATE OF INDIANA PROFESSIONAL ENGINEER

SIGNATURE:
DATE: 7-1-2020
SCALE: HORZ: AS SHOWN
VERT:
ACI JOB #: 20-0205
SHEET NO.: C8.0



NOTES:

1. *Minimum restrained joint length required for the given pipe size, depth, material, soil condition, etc. Use 1.5:1 safety factor and 150 psi test pressure (Typical Each Side)*
2. *Provide adequate support if the obstacle is in place before the water main is constructed.*

WATER PIPE / UTILITY CONFLICT CROSSINGS
(NOT TO SCALE)

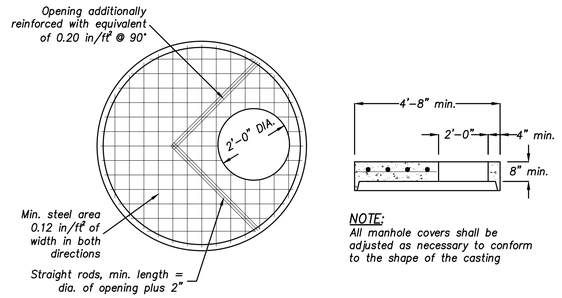
STORM SEWER CASTINGS

All castings shall be stamped with a Fish Image and the lettering "Dump No Waste" "Drains to Waterways"

STRUCTURES IN CURB LINE
NEENAH R-3010 or approved equal

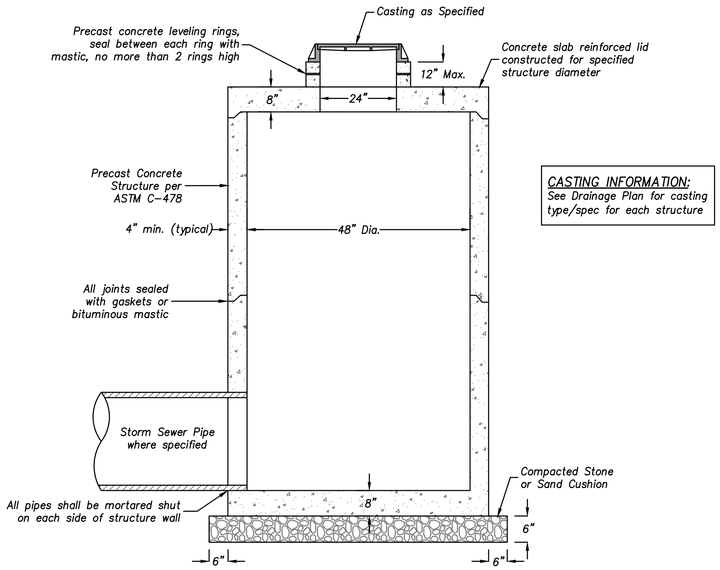
STRUCTURES IN PAVEMENT
NEENAH R-2502 or approved equal

STRUCTURES IN LAWN
NEENAH R-2560-C or approved equal



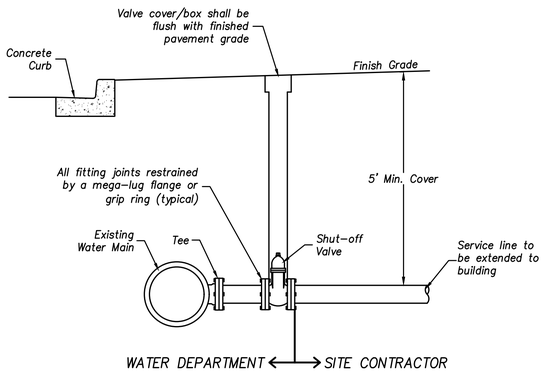
NOTE:
All manhole covers shall be adjusted as necessary to conform to the shape of the casting

COVER CAP FOR 48" MANHOLE
(NOT TO SCALE)

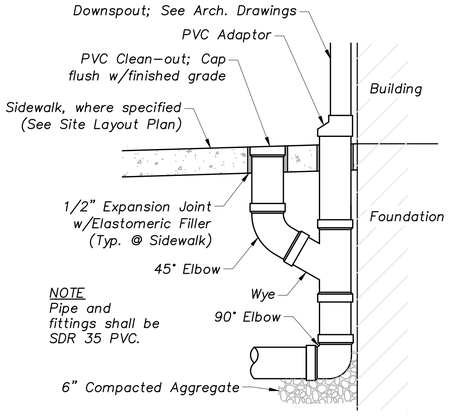


CASTING INFORMATION:
See Drainage Plan for casting type/spec for each structure

STANDARD 48" STORM MANHOLE
(NOT TO SCALE)

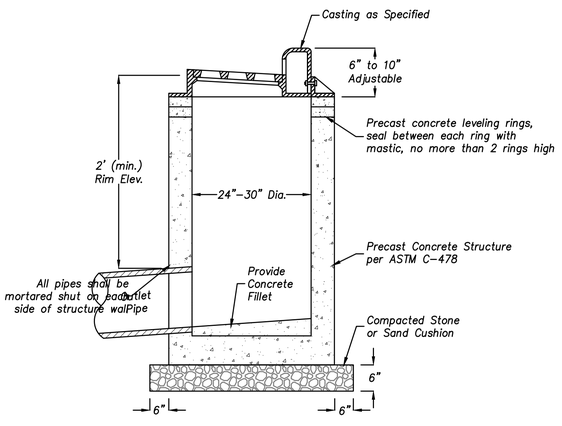


WATER SERVICE DETAIL
(DOMESTIC AND FIRE)
(NOT TO SCALE)



NOTE
Pipe and fittings shall be SDR 35 PVC.

DOWNSPOUT CONNECTOR
(NOT TO SCALE)



STANDARD STORM INLET
(NOT TO SCALE)

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RNUM	RDESC	RBY	RDATE

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PROJECT:
TACO BELL
3615 BREMEN HIGHWAY
MISHAWAKA, INDIANA

SHEET TITLE:
UTILITY DETAILS

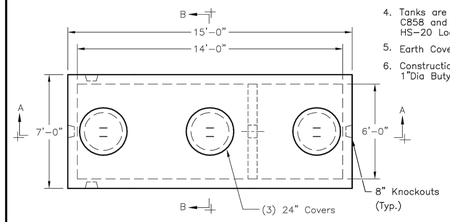
DRAWN BY: **DEF**
DESIGNED BY: **DEF**
PM REVIEW: **MJH**
QA/QC REVIEW: **RTN**
DATE: **3-25-2020**
SEAL:

ROGER T. NAWROT
REGISTERED
No. 60016991
STATE OF INDIANA
PROFESSIONAL ENGINEER

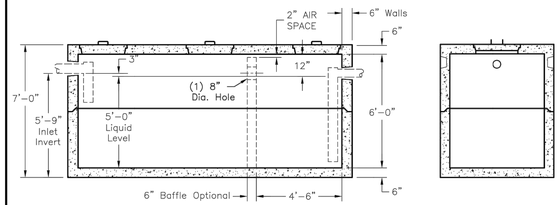
SIGNATURE:
DATE: *7-1-2020*
SCALE: HORZ: **AS SHOWN** VERT:
ACI JOB #: **20-0205**
SHEET NO.: **C8.1**

NOTES:

1. Concrete : 5,000 P.S.I Minimum Strength @ 28 Days
2. Steel Reinforcing– ASTM A–615, Grade 60.
3. Cover to Steel–1" Minimum
4. Tanks are Designed to Meet ASTM C858 and ACI 318 With AASHTO HS–20 Loading
5. Earth Cover –0 to 5 Feet Max.
6. Construction Joint–Sealed with 1"Dia Butyl Rubber or Equivalent



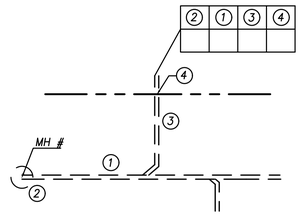
PLAN VIEW



SECTION A-A

SECTION B-B

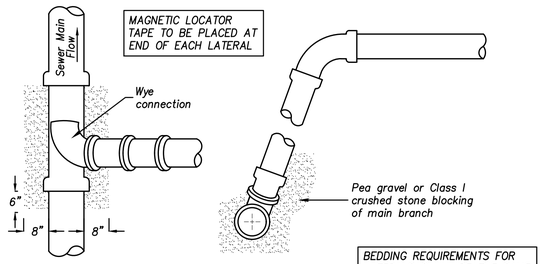
Oldcastle Precast®	GT-3000	6'-0" x 14'-0" x 6'-0" I.D. Grease Trap 3,000 Gallon Capacity
	FILE NAME: 324ECGGT3000_DET.DWG	
	ISSUE DATE: January, 2008	
	www.oldcastleprecast.com	



1. Location of tap from downstream manhole
2. Downstream manhole number
3. Length of lateral from main to stub
4. Depth of lateral at end.

AS–BUILT DETAIL

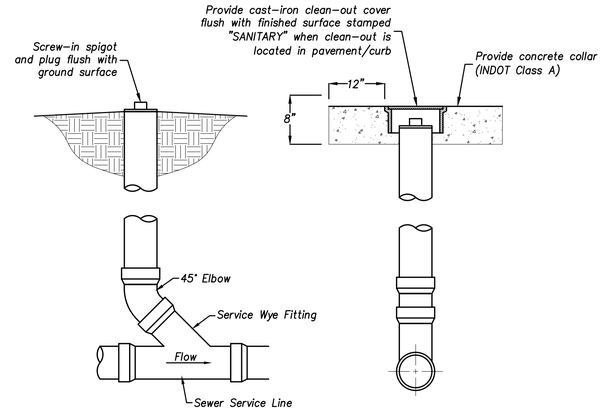
(NOT TO SCALE)



TOP VIEW SIDE VIEW

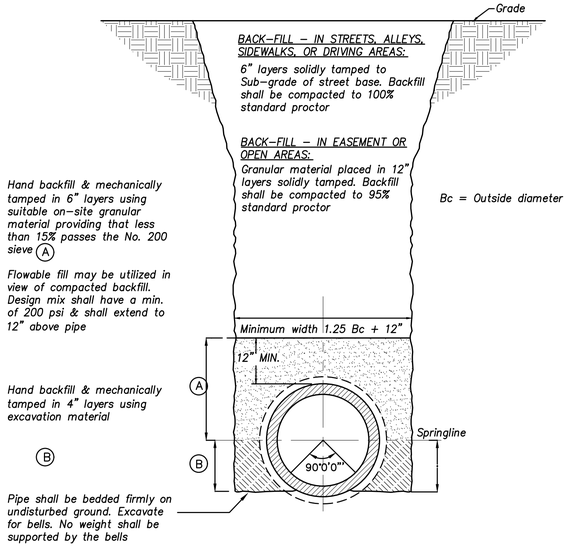
LATERAL CONNECTION DETAIL

(NOT TO SCALE)



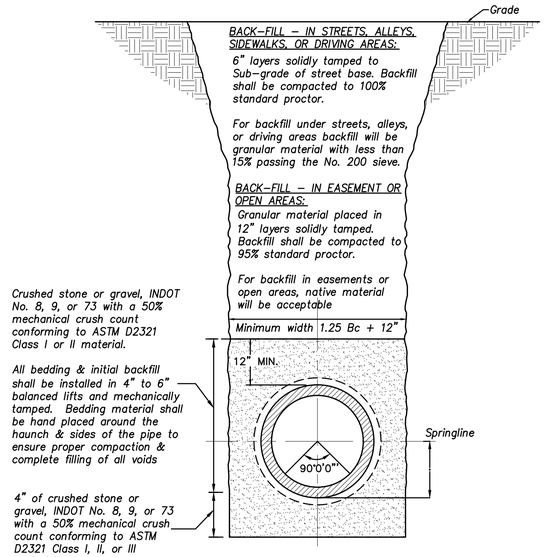
SEWER CLEAN–OUT DETAILS

(NOT TO SCALE)



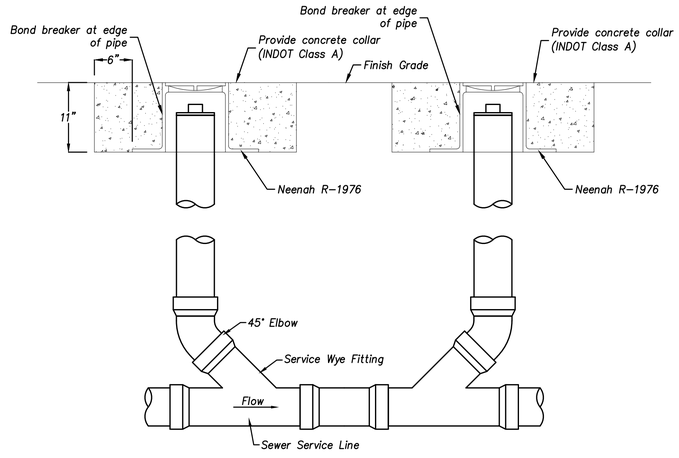
RIGID PIPE BEDDING DETAIL "A"

Not to Scale



FLEXIBLE PIPE BEDDING DETAIL "B"

Not to Scale



TWO–WAY CLEAN–OUT

(NOT TO SCALE)

2	UPDATE ADDRESS	DEF	8/10/20

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Engineering Architecture Land Surveying

PROJECT:

TACO BELL
3615 BREMEN HIGHWAY
MISHAWAKA, INDIANA

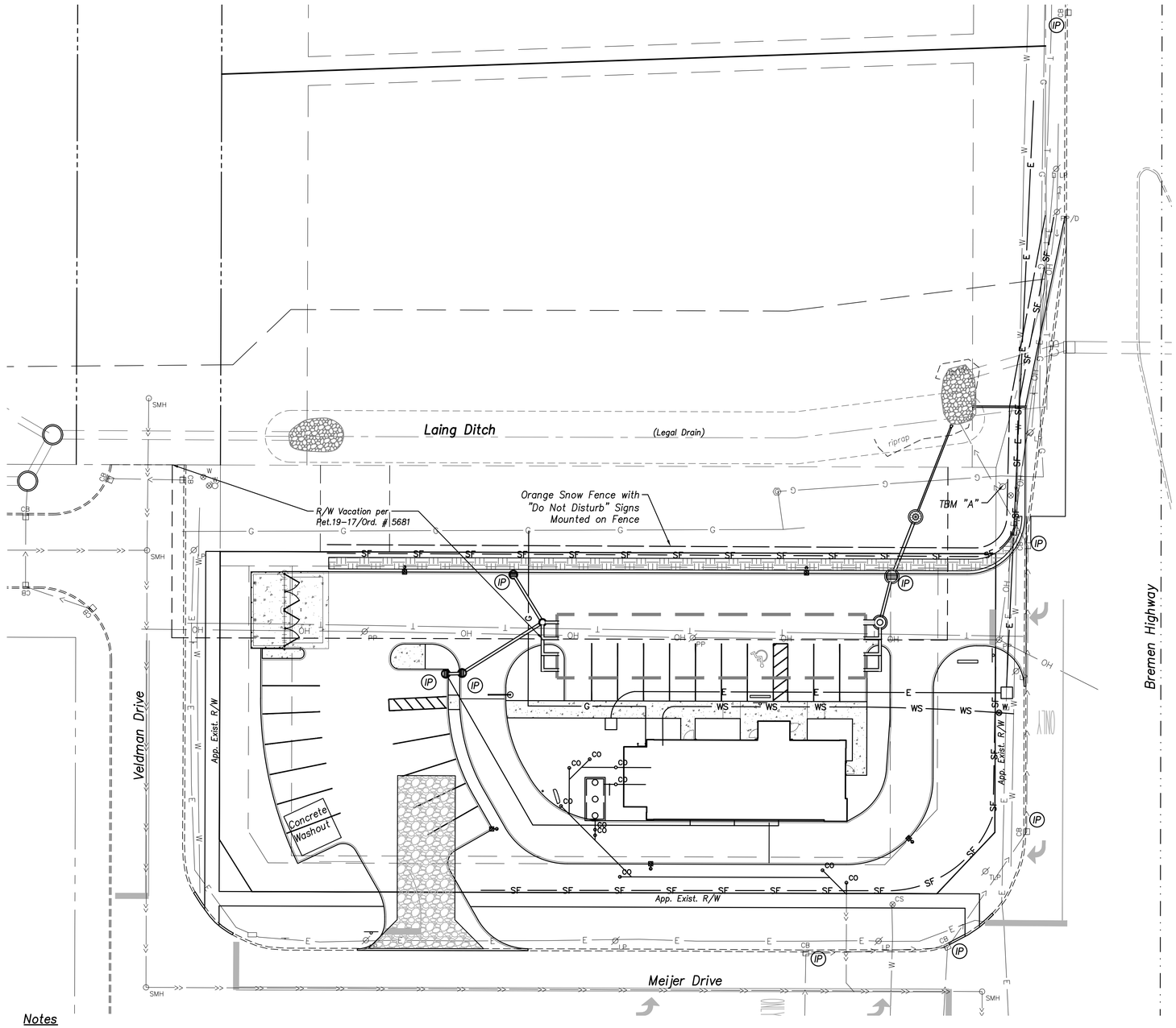
SHEET TITLE:

SEWER DETAILS

DRAWN BY: DEF
DESIGNED BY: DEF
PM REVIEW: MJH
QA/QC REVIEW: RTN
DATE: 3-25-2020
SEAL:

ROGER T. NAWROT REGISTERED No. 60016991 STATE OF INDIANA PROFESSIONAL ENGINEER

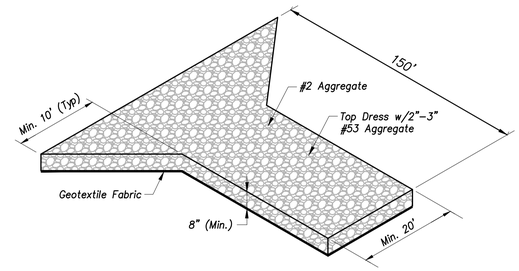
SIGNATURE:
DATE: 7–1–2020
SCALE: HORZ: AS SHOWN VERT:
ACI JOB # 20-0205
SHEET NO. C8.2



Notes

1. Any storm sewer inlets in or adjacent to the construction limits shall be protected as specified on the plan or an approved equal. The intent of this measure is to prevent sediment from entering any drainage systems.
2. Until the project is accepted by the Owner, the Contractor shall maintain all erosion control measures to prevent sediment from entering any public or private storm sewers and from leaving the project site. Contractor shall implement and maintain any additional measures at the request of the Local and/or State Storm Water and Erosion Control Inspectors at no additional cost.
3. Silt Fencing – Tentative location shown on plan. Actual field conditions shall indicate the location and amount of silt fencing required to prevent sediment from entering public and private storm sewers and from leaving the project site. Silt fencing or other appropriate sediment barrier shall be installed a minimum of 10' away from the toe of slope stockpile, borrow, and/or disposal areas.

   NO OFFSITE SEDIMENT FLOWS OR SEDIMENT LADEN STORMWATER FLOWS ARE TO OCCUR AT ANY TIME. INSTALL SILT FENCING ON AN AS NEEDED BASIS.
4. Locations for concrete washout and temporary construction staging shall be determined by the Contractor and Owner prior to construction.
5. All areas disturbed by construction shall be stabilized with seeding or an alternative surface stabilization measure. Temporary Seeding shall take place as soon as possible on any bare or thinly vegetated areas which have less than 70 percent cover and will remain inactive for a period of 15 days or more.



INSTALLATION

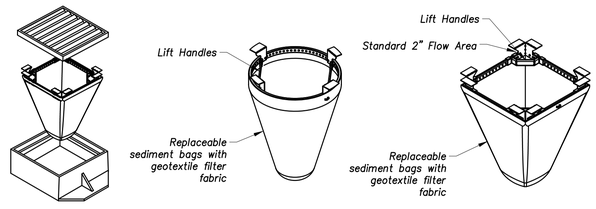
1. Remove all vegetation and other objectionable material from the foundation area.
2. Grade foundation and crown for positive drainage. If the slope of the construction entrance is toward a public road and exceeds two percent, construct an 8-inch high diversion ridge with a ratio of 3-to-1 side slopes across the foundation area about 15 feet from the entrance to divert runoff away from the road.
3. Install a culvert pipe under the pad if needed to maintain proper public road drainage.
4. If wet conditions are anticipated, place geotextile fabric on the graded foundation to improve stability.
5. Place specified aggregate to the dimensions shown leavincg the surface smooth and sloped for drainage.
6. Top-dress the first 50 feet adjacent to the public roadway with 2-3 inches of washed #53 aggregate [optional, used primarily where the purpose of the pad is keep soil from adhering to vehicle tires]
7. Where possible, divert all storm water runoff and drainage from the pad to a sediment trap or basin.

MAINTENANCE

1. Inspect daily.
2. Reshape pad as needed for drainage and runoff control.
3. Top dress with clean aggregate as needed.
4. Immediately remove mud and sediment tracked or washed onto public roads.
5. Flushing should only be used if the water can be conveyed into a sediment trap or basin

Temporary Construction Entrance

(Not to Scale)



INSTALLATION DETAIL | ROUND FILTER | RECTANGULAR FILTER

INSTALLATION

1. Prior to installation, Contractor shall submit brand and model information to Owner for approval prior to installation. Install per manufacturer recommendations.
2. Remove grate and clean ledge of the casting frame or drainage structure.
3. Drop frame and sediment bag insert onto load bearing lip of casting or concrete structure
4. Re-install grate and confirm it is elevated no more than thickness of insert hangers.

MAINTENANCE

1. Inspection should occur at least once a week and following each ½" or more rain event.
2. Empty the sediment bag if more than half filled with sediment and debris.
3. Remove the grate, engage the lifting bars or handles and lift from the drainage structure, and dispose of any sediment or debris in accordance with EPA Guidelines.
4. Remove any caked on silt from the sediment bag and reverse flush the bag with medium spray for optimal filtration.
5. Replace the bag if torn or punctured to ½" diameter or greater on the lower half of the bag.
6. When the contributing drainage area within 50 feet upstream of the inlet has been stabilized, remove insert (basket) and properly dispose of sediment deposits.

Temporary Inlet Protection

(Not to Scale)

EROSION CONTROL LEGEND

- Erosion Control Blankets
- SF — Silt Fence
- IP — Inlet Protection

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

2	UPDATE ADDRESS	DEF	8/10/20

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PROJECT:

TACO BELL
3615 BREMEN HIGHWAY
MISHAWAKA, INDIANA

SHEET TITLE:

EROSION CONTROL PLAN

DRAWN BY: DEF
DESIGNED BY: DEF
PM REVIEW: MJH
QA/QC REVIEW: RTN
DATE: 3-25-2020

SEAL:

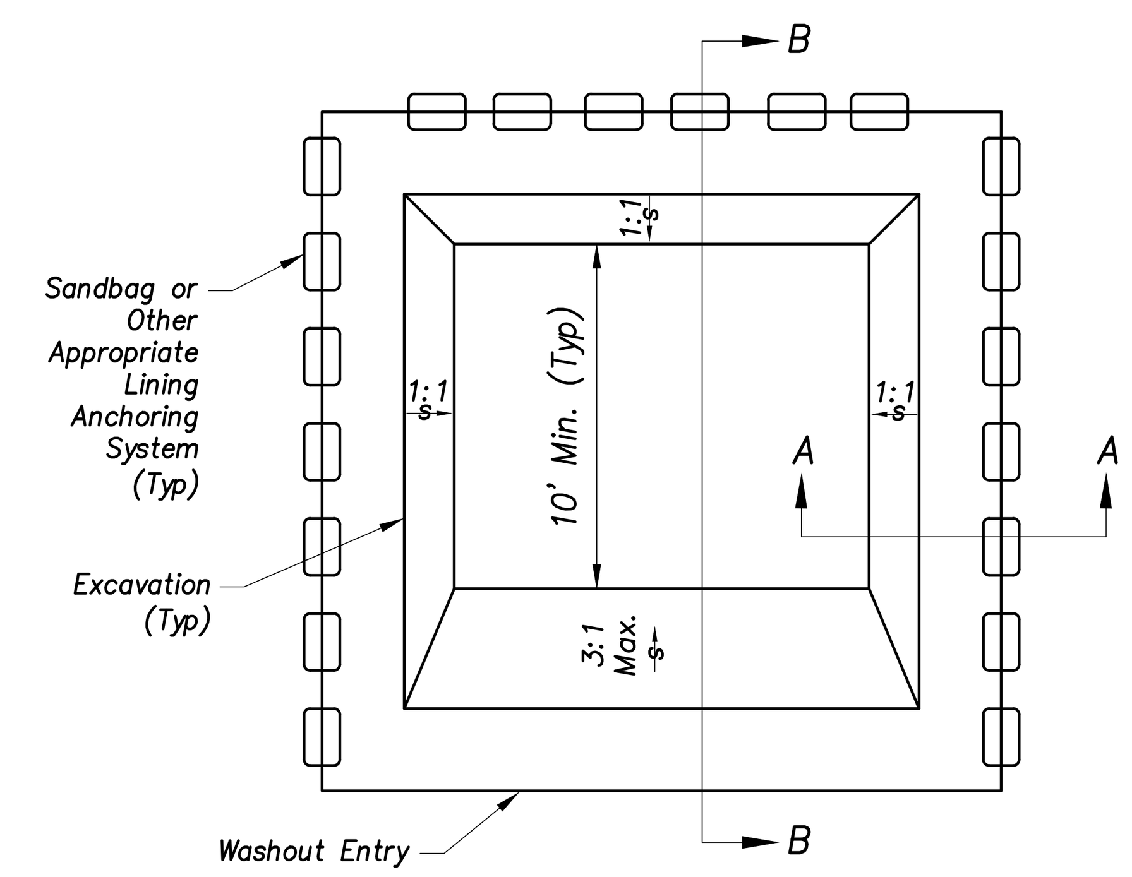
ROGER T. NAWROT REGISTERED No. 60016991 STATE OF INDIANA PROFESSIONAL ENGINEER

SIGNATURE:
DATE: 7-1-2020

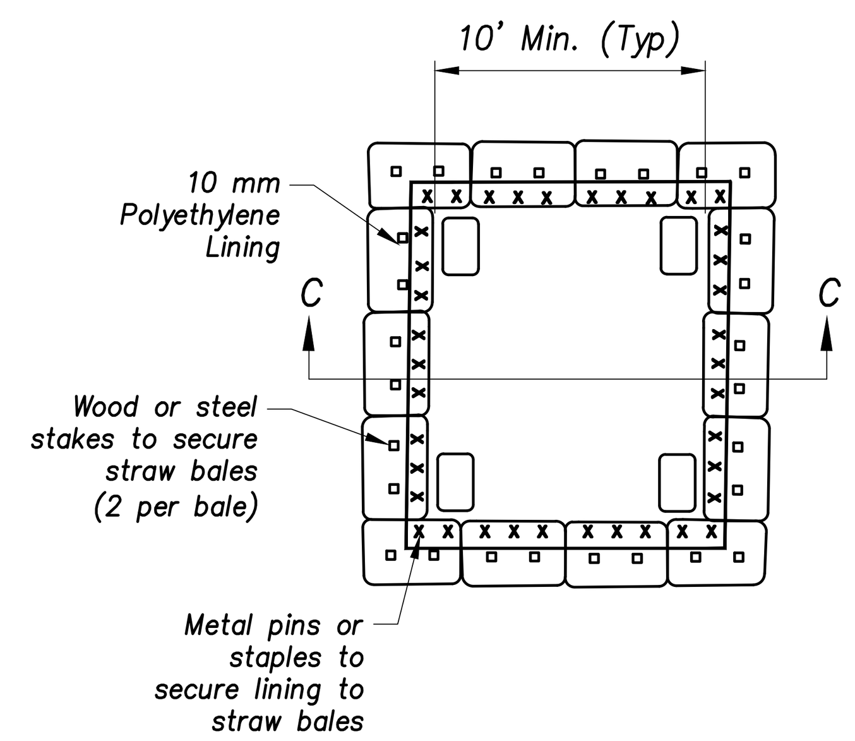
SCALE:
HORZ: 1" = 20'
VERT:

ACI JOB #
20-0205

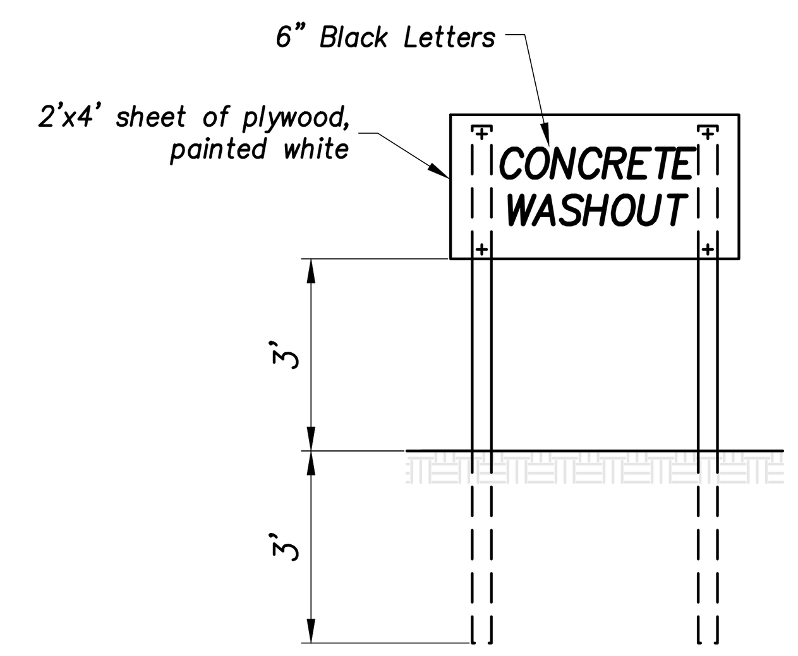
SHEET NO.
C9.0



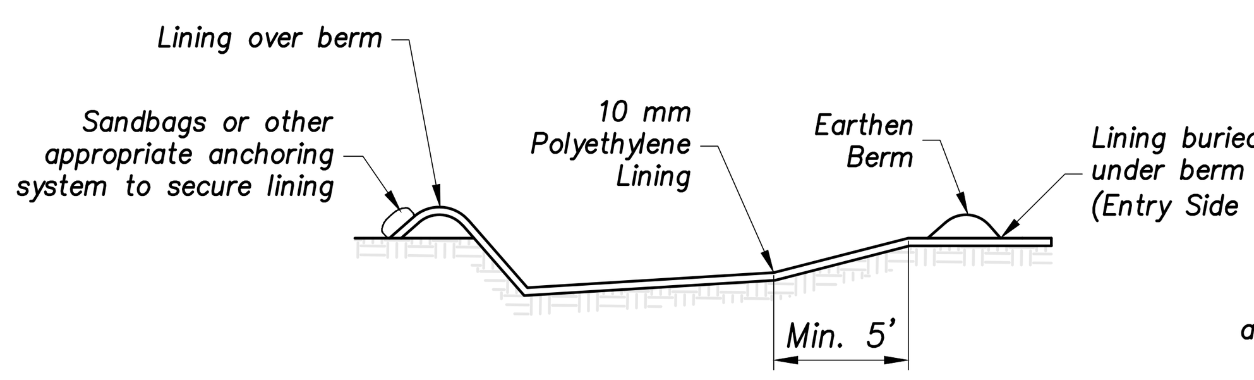
Below Grade Plan View



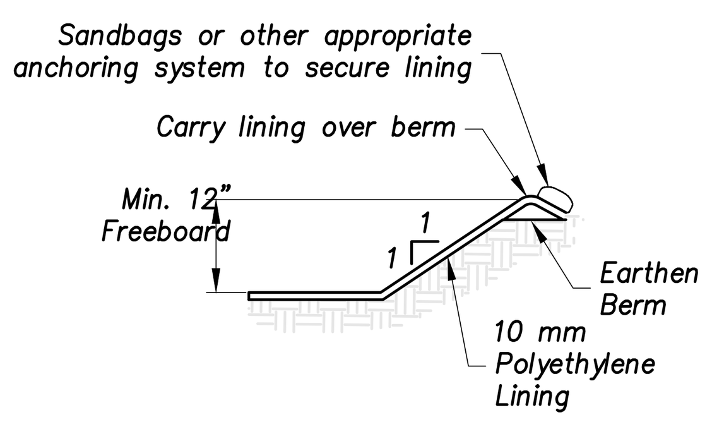
Above Grade Plan View



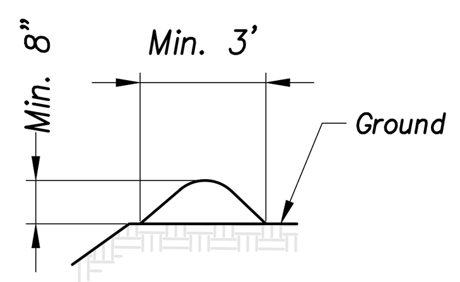
Sign Detail



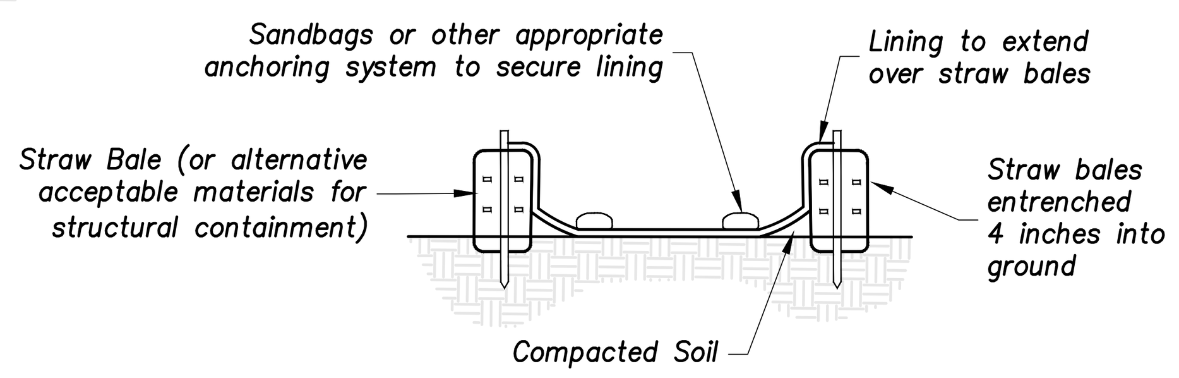
Section B–B



Section A–A



Earthern Berm Section



Section C–C

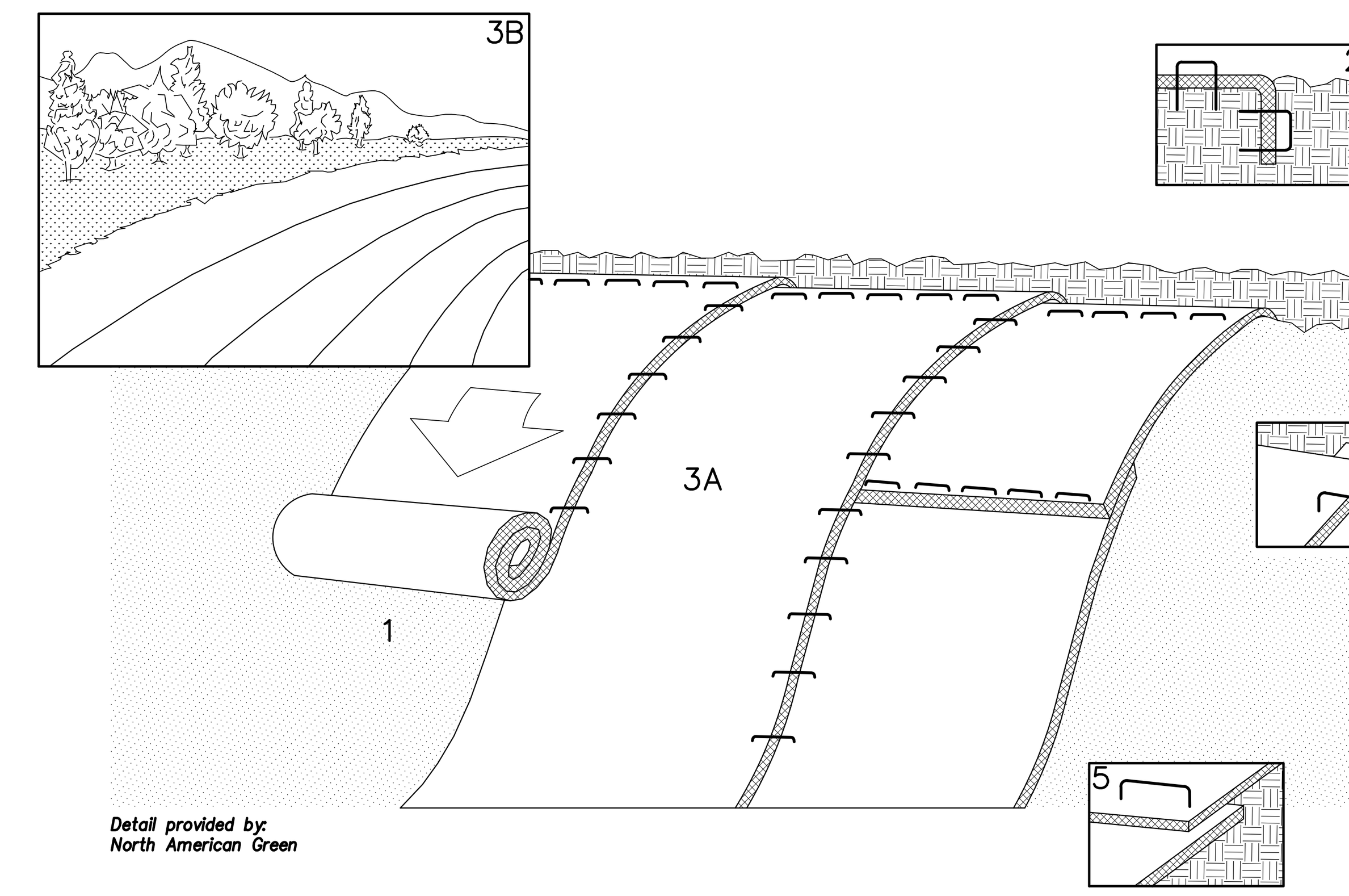
Installation

1. Dependent upon the type of system, either excavate the pit or install the containment system. For prefabricated containers, locate, and install according to the manufacturer's recommendations.
2. A base shall be constructed and prepared that is free of rocks and other debris that may cause tears/punctures in the polyethylene lining.
3. Install the polyethylene lining. For excavated systems, the lining should extend over the entire excavation. The lining for bermed systems should be installed over the pooling area with enough material to extend the lining over the berm or containment system. The lining should be secured with pins, staples, or other fasteners.
4. Place flags, safety fencing, or equivalent to provide a barrier to construction equipment and other traffic.
5. Place a non–collapsing, non–water holding cover over the washout facility prior to a predicted rainfall event to prevent accumulation of water and possible overflow of the system (optional).
6. Install signage that identifies concrete washout areas and post signs directing contractors and suppliers to designated locations.
7. Where necessary, provide stable ingress and egress or alternative approach pad for concrete washout systems.

Maintenance

1. Inspect daily and after each storm event – Inspect the integrity of the overall structure and containment system where applicable.
2. Inspect the system for leaks, spills, and tracking of soil by equipment, and the polyethylene lining for failure, including tears and punctures.
3. Once concrete wastes harden, remove and dispose of the material.
4. Excess concrete should be removed when the washout system reaches 50 percent of the design capacity. Use of the system should be discontinued until appropriate measures can be initiated to clean the structure. Prefabricated systems should also utilize this this criterion, unless the manufacturer has alternate specifications.
5. Upon removal of the solids, inspect the structure. Repair the structure as needed or construct a new system.
6. Dispose of all the concrete in a legal manner. Reuse the material on site, recycle, or haul the material to an approved construction/demoition landfill site. Recycling of material is encouraged. The waste material can be used for multiple applications including but not limited to roadbeds and building. The availability for recycling should be checked locally.
7. The plastic liner should be replaced after every cleaning; the removal of material will usually damage the lining.
8. The concrete washout system should be repaired or enlarged as necessary to maintain capacity for concrete waste.
9. Concrete washout systems are designed to promote evaporation. However, if the liquids do not evaporate and the system is near capacity it may be necessary to vacuum or remove the liquids and dispose of them in an acceptable method. Disposal may be allowed at the local sanitary sewer authority provided their national pollutant discharge elimination system permits allow for acceptance of this material. Another option would be to utilize a secondary containment system or basin for further dewatering.
10. Prefabricated units are often pumped and the company supplying the unit provides this service.
11. Inspect construction activities on a regular basis to ensure suppliers, contractors, and others are utilizing designated washout areas. If concrete waste is being disposed of improperly, identify violators and take appropriate action.
12. When concrete washout systems are no longer required, the concrete washout system shall be closed. Dispose of all hardened concrete and other materials used to construct the system.
13. Holes, depressions and other land disturbances associated with the system should be backfilled, graded, and stabilized.

Concrete Washout Structure
(Not to Scale)



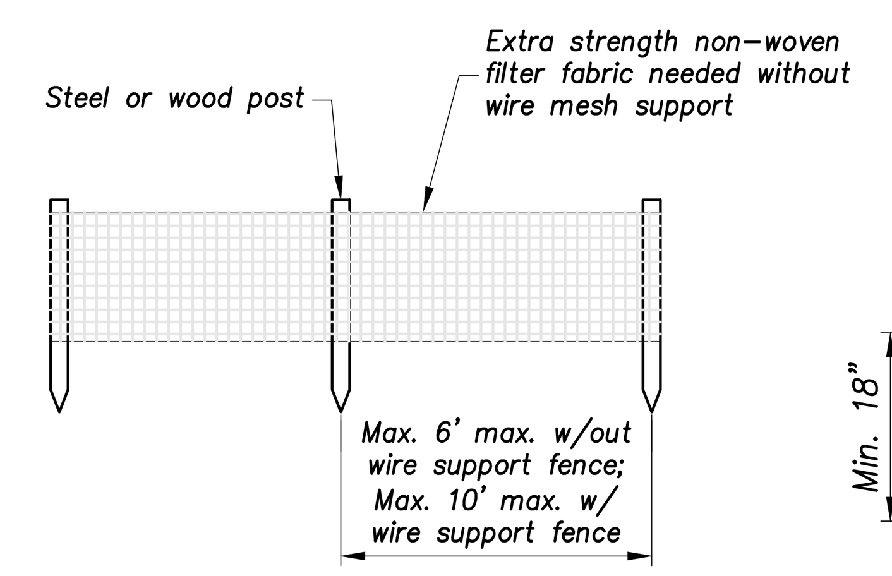
Installation

1. Prepare soil before installing blankets, including application of lime, fertilizer, and seed. When using cell–o–seed do not seed prepared area. Cell–o–seed must be installed with paper side down.
2. Begin at the top of the slope by anchoring the blanket in 6" deep x 6" wide trench. Backfill and compact the trench after stapling. Follow the manufacturer's recommendations for size and type of staples and staple pattern for securing the blankets.
3. A) Roll the blankets down the bank as shown.
   B) Blankets may be installed horizontally down the slope of the drainage swale.
4. The edges of parallel blankets must be stapled with approximately 2" overlap.
5. When blankets must be spliced down the slope, place blanket end over end (shingle style) with approximately 4" overlap. Staple through overlapped area, approximately 12" apart.

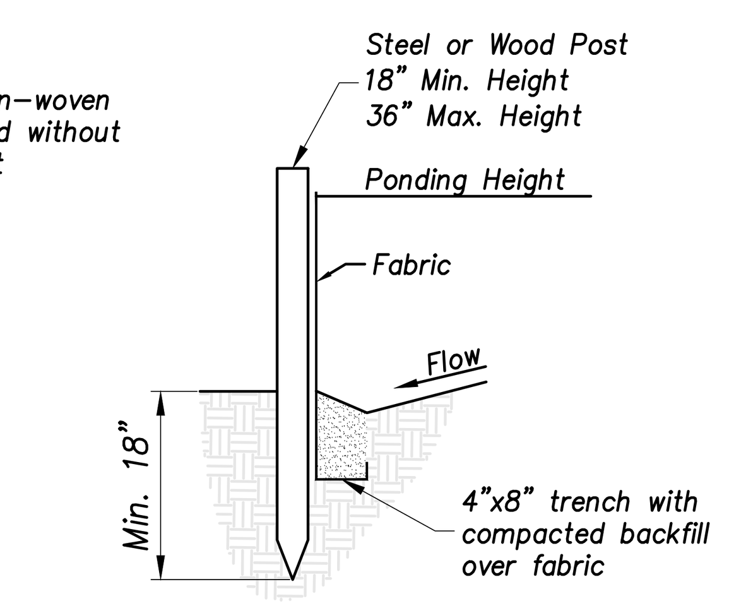
Maintenance Guidelines

1. Inspect within 24 hours of a half–inch or greater rain event and at least once every week.
2. Check for erosion or displacement of the blanket.
3. If any area shows erosion, pull back that portion of the blanket covering the eroded area, add soil and tamp, reseed area, replace and staple the blanket.

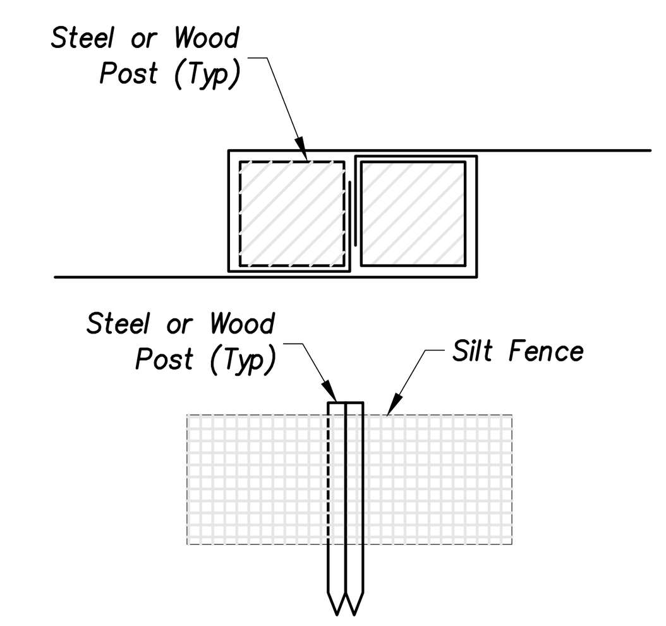
Erosion Control Blanket Slope Stabalization
(Not to Scale)



Elevation



Trench Detail



Fence Joining Detail

Installation

1. Lay out the location of the fence so that it is parallel to the contour of the slope and at least 10 feet beyond the toe of the slope to provide a sediment storage area. Turn the ends of the fence up slope such that the point of contact between the ground and the bottom of the fence end terminates at a higher elevation than the top of the fence at its lowest point.
2. Excavate an 8–inch deep by 4–inch wide trench along the entire length of the fence. (installation by plowing is acceptable)
3. Install silt fence with the filter fabric located on the up–slope side of the excavated trench and the support posts on the down–slope side of the trench.
4. Drive the support posts at least 18 inches into the ground, tightly stretching the fabric between the posts as each is driven into the soil. A minimum of 12 inches of the filter fabric should extend into the trench.
5. Lay the lower 4 inches of fabric on the bottom of the trench and extend it toward the up–slope side of the trench.
6. Backfill the trench with soil material and compact it in place.
7. If the silt fence is being constructed onsite, attach the filter fabric to the support posts and attach wooden lathe to secure the fabric to the posts. Allow for at least 12 inches of fabric below ground level. Complete the silt fence installation, following steps 1 through 6 above.

Maintenance

1. Inspect within 24 hours of a half–inch or greater rain event and at least once every week.
2. If fence fabric tears or starts to decompose, or in any way becomes ineffective, replace the section immediately in accordance with installation specifications above.
3. Remove deposited sediment when it causes filter fabric to bulge or when it reaches 1/2 the height of the fence at it lowest point.
4. When the contributing drainage area has been stabilized, remove the fence and sediment deposits, grade the site to blend with the surrounding area and stabilize.

Temporary Silt Fence
(Not to Scale)

2	UPDATE ADDRESS	DEF	8/10/20

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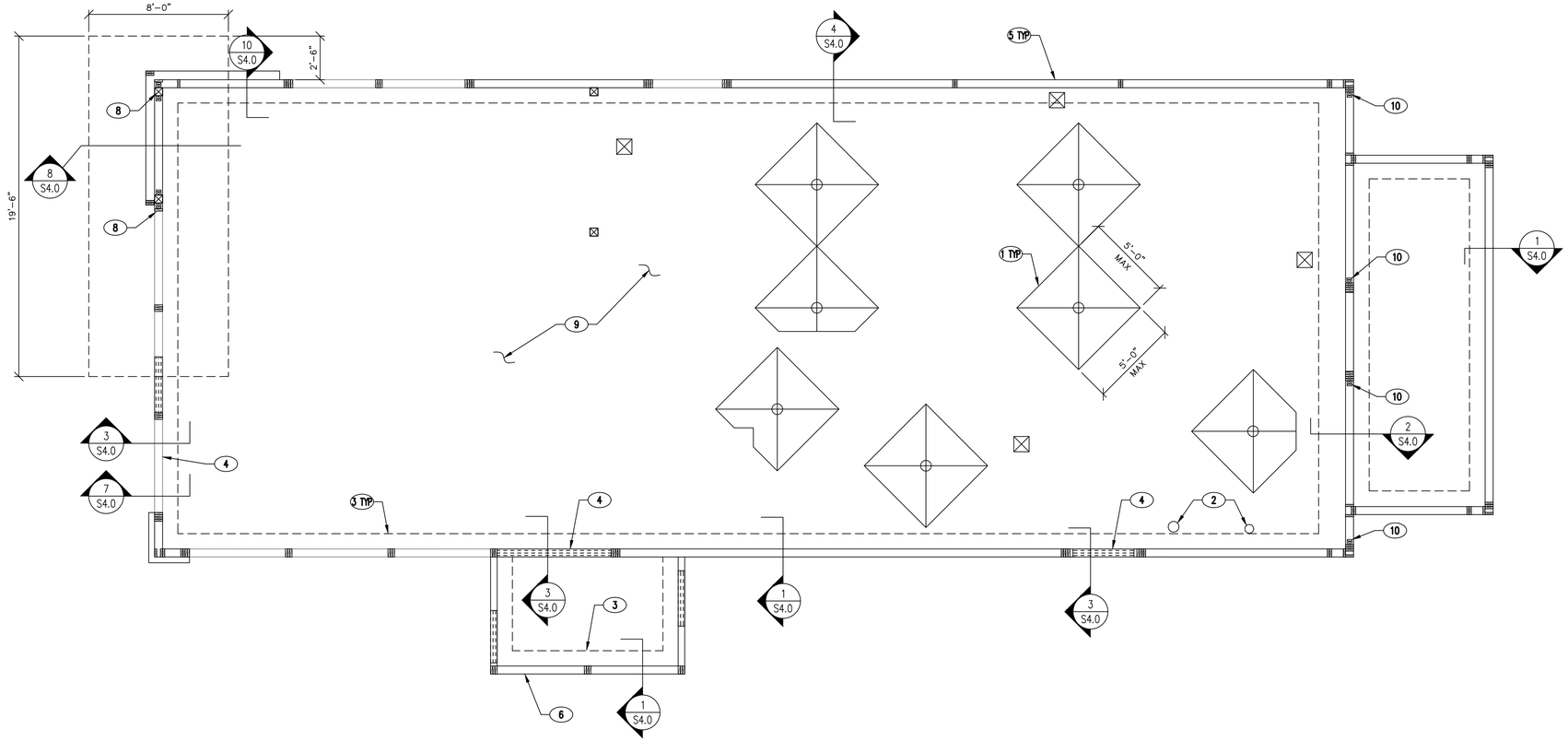
Engineering · Architecture · Land Surveying

PROJECT:
TACO BELL
3615 BREMEN HIGHWAY
MISHAWAKA, INDIANA

SHEET TITLE:
EROSION CONTROL DETAILS

DRAWN BY: DEF
DESIGNED BY: DEF
PM REVIEW: MJH
QA/QC REVIEW: RTN
DATE: 3-25-2020
SEAL: ROGER T. NAWROT REGISTERED No. 60016991 STATE OF INDIANA PROFESSIONAL ENGINEER
SIGNATURE:
DATE: 7–1–2020
SCALE: HORZ: AS SHOWN VERT:
ACI JOB #: 20-0205
SHEET NO.: C9.1



FOUNDATION PLAN

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

12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

FOUNDATION PLAN 1/4" = 1'-0" **A**

DESIGN CRITERIA:

2012 IBC

ROOF SNOW LOADS:

GROUND SNOW LOAD (Pg):	30 PSF
EXPOSURE FACTOR (Ce):	1.0
IMPORTANCE FACTOR (I):	1.0
THERMAL FACTOR (Ct):	1.0

ROOF LOADS:

LIVE LOAD:	20 PSF
DEAD LOAD:	20 PSF

WIND LOADS:

3 SECOND GUST:	115 MPH
RISK CATEGORY:	II
EXPOSURE CATEGORY (MWFRS):	C
INTERNAL PRESSURE COEFF.:	± .18

SEISMIC LOADS:

RISK CATEGORY: II
SEISMIC IMPORTANCE FACTOR: 1.0
SITE CLASS: D

MAPPED SPECTRAL RESPONSE ACCEL:

Ss: 0.097g
S1 : 0.057g

SPECTRAL RESPONSE COEFF.:

SHORT PERIODS (SDS):	0.103g
1 SEC. PERIODS (SD1)	0.092g

SEISMIC DESIGN CATEGORY: B

ANALYSIS BY EQUIVALENT LATERAL LOAD PROCEDURE

PROVIDE SHOP DRAWINGS AND CALCULATIONS BY REGISTERED ENGINEER FOR SIGNS AND ROOF TRUSSES.

DESIGN CRITERIA D

FOUNDATION

1. FOUNDATION DESIGN IS BASED UPON THE GEOTECHNICAL ENGINEERING REPORT BY GME TESTING, PROJECT NUMBER G20-050162 DATED 5/29/2020.
2. CONTRACTOR TO PROVIDE FOUNDATION & FOOTING AS REQUIRED FOR PYLON OR MONUMENTAL SIGN. SEE ELECTRICAL DRAWINGS FOR DETAIL.
3. COORDINATE STRUCTURAL PLANS AND DETAILS WITH REQUIREMENTS OF GEOTECHNICAL REPORT. FOUNDATION DESIGN IS BASED ON 1,000 PSF ALLOWABLE BEARING CAPACITY.
4. CONTRACTOR SHALL TREAT SOIL BELOW SLAB FOR TERMITES.
5. REFER TO THE GEOTECHNICAL REPORT FOR GENERAL REQUIREMENTS OF EARTHWORK, OVEREXCAVATION, SUBGRADE PREPARATION, FILL AND COMPACTION, WATERPROOFING AND OTHER PERTINENT REQUIREMENTS AND INFORMATION.
6. PROTECT PIPES AND CONDUITS RUNNING THROUGH WALLS AND SLABS WITH 1/2 INCH EXPANSION MATERIAL. LOWER CONTINUOUS FOOTINGS AND GRADE BEAMS PERPENDICULAR TO PIPE RUNS TO ALLOW PIPES TO PASS ABOVE THE FOOTINGS OR THROUGH THE GRADE BEAMS. ALTERNATIVELY, PROVIDE A CONCRETE JACKET IF PIPES ARE LOW ENOUGH TO BE PLACED BELOW THE FOOTINGS AND GRADE BEAMS. LOWER FOOTINGS AND GRADE BEAMS PARALLEL TO PIPE RUNS TO AVOID SURCHARGE ONTO ADJACENT TRENCH EXCAVATIONS.
7. MAINTAIN SUBGRADE AND FILL MOISTURE CONTENT UNTIL FOUNDATIONS ARE PLACED.
8. ARRANGE FOR OWNER'S INDEPENDENT TESTING AGENCY TO MONITOR CUT AND FILL OPERATIONS AND PERFORM FIELD DENSITY AND MOISTURE CONTENT TESTS TO VERIFY COMPACTION AND APPROVE FOOTING SUBGRADES PRIOR TO PLACING CONCRETE.
9. DO NOT PLACE FOOTINGS OR SLABS AGAINST SUBGRADE CONTAINING FREE WATER, FROST, OR ICE.
10. MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION TO ENSURE SURFACE RUNOFF AWAY FROM STRUCTURES AND TO PREVENT PONDING OF SURFACE RUNOFF NEAR THE STRUCTURES.

FOUNDATION PLAN NOTES C

CONCRETE:

A. CONCRETE SHALL BE HARD ROCK CONC. (5 SACK CEMENT PER CU.YD. MIN.) AND MEET THE FOLLOWING MIN. ULTIMATE COMPRESSIVE STRENGTHS AT 28 DAYS:

LOCATION	MIN. STRENGTH 28 DAYS PSI	AGGREGATE SIZE - INCHES	SLUMP INCHES	TOLERANCE
SLAB ON GRADE	(4000 DESIGN)	1" x #4	3-1/2"	±1/2"
FOUNDATIONS	(3000 DESIGN)	1" x #4	3-1/2"	±1/2"

B. CONCRETE MIX DESIGN AND TESTING SHALL MEET WITH THESE SPECS. CEMENT SHALL BE IN ACCORDANCE WITH ASTM C 150 TYPE II. VERIFY MIN. CONC. STRENGTH AND CEMENT TYPE.
C. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. STEEL SHALL BE KEPT CLEAN AND FREE OF RUST.
D. CONCRETE CURING SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF ACI-318-95 SECTION 5.11 AND STANDARD PRACTICE FOR CURING CONCRETE REPORTED BY COMMITTEE 308.
E. ANCHOR BOLTS - A36 OR A307, USE 5/8" DIAMETER x 12" ANCHOR BOLTS (A.B.) AT 48" O.C. U.O.N. ANCHOR BOLTS SHALL BE TIED IN PLACE PRIOR TO PLACEMENT OF CONC.
F. TO RESIST FREEZE - THAW DETERIORATION W/C. RATIO SHALL NOT EXCEED .50 FOR CONCRETE IN CONTACT WITH SOILS.
G. TOTAL AIR CONTENT TO BE 6% ± 1.5%.

SLAB:

A. DESIGN IS BASED UPON 4" THICK CONCRETE SLAB REINFORCED W/ WWF 6x6-W1.4x1.4 OR #4 BARS @ 18" O.C. EA. WAY, OVER 10 MIL VISQUEEN MEMBRANE, OVER 6" OF GRANULAR FILL. SLAB SUBGRADE SHALL BE COMPACTED TO ACHIEVE 95 PERCENT OR MORE PER ASTM D-1557. SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

MISCELLANEOUS:

A. DIMENSIONS NOTED ARE TO FACE OF CONCRETE. REFER TO DWG. A1.0 FOR DIMENSIONS TO FACE OF STUD AND OTHER DIMENSIONS NOT OTHERWISE NOTED.
B. DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS AND FIT SHALL BE DETERMINED AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.
C. DETAILS NOT FULLY OR SPECIFICALLY SHOWN SHALL BE OF SAME NATURE AS OTHER SIMILAR CONDITIONS.
D. SEE PLUMB. DWGS. FOR PLUMB. LAYOUT DIMENSIONS, U.O.N.
E. SEE ELECT. DWGS. FOR ELECT. LAYOUT DIMENSIONS, U.O.N.
F. COORD. FOUNDATION AND SLAB LAYOUT WITH OTHER TRADES PRIOR TO POURING SLAB.

KEY NOTES B

(1) FLOOR DRAINS LOCATED 1/2" BELOW T.O. SLAB. SLOPE SLAB AS INDICATED ON PLAN TO PROVIDE POSITIVE DRAINAGE.

(2) PROVIDE HUB DRAIN (HD) UNLESS REQUIRED BY LOCAL CODE TO HAVE FLOOR SINK (FS).

(3) INDICATES INSIDE SURFACE OF FOOTING. SEE SHEET S4.0. BOTTOM OF FOOTING (B.O.F.)

(4) DEPRESSED FOUNDATION WALL AT THRESHOLD. SEE 3/S4.0.

(5) ANCHOR BOLTS LOCATED THROUGHOUT PERIMETER OF BUILDING SHALL BE PROVIDED AS REQUIRED PER THE "PLATE/ANCHOR BOLT" COLUMN OF THE "WALL SHEATHING AND SHEARWALL SCHEDULE." SEE D/S2.0.

(6) AT OWNER/ CONTRACTOR OPTION: VESTIBULE.

(7) NOT USED.

(8) (2) HDU14-SDS2.5 HOLDOWN ANCHOR AT EACH END OF SHEARWALL. SEE 6/S4.0 FOR HOLDOWN EMBEDMENT DETAIL.

(9) 4" CONCRETE SLAB REINFOCED W/ WWR6x6-W1.4xW1.4 OR #4 BARS @ 18" O.C. EA. WAY OVER MIN. 10 MIL. POLYETHELENE VAPOR BARRIER, OVER 4" AGGREGATE BASE OVER SUBGRADE.

(10) HDU8-SDS2.5 HOLDOWN ANCHOR AT EACH END OF SHEARWALL. SEE 6/S4.0 FOR HOLDOWN EMBEDMENT DETAIL.

(11) NOT USED

PROJECT NUMBER	20-0616
PROJECT MANAGER	RAD
PROJECT ENGINEER	SA
PROJECT DRAFTER	MJN

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SANDRA J. HERD REGISTERED No. 12000373 STATE OF INDIANA PROFESSIONAL ENGINEER
08-07-20

⚠ OWN/STATE COMMENTS 08.10.20
⚠
⚠
⚠
⚠

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

TACO BELL

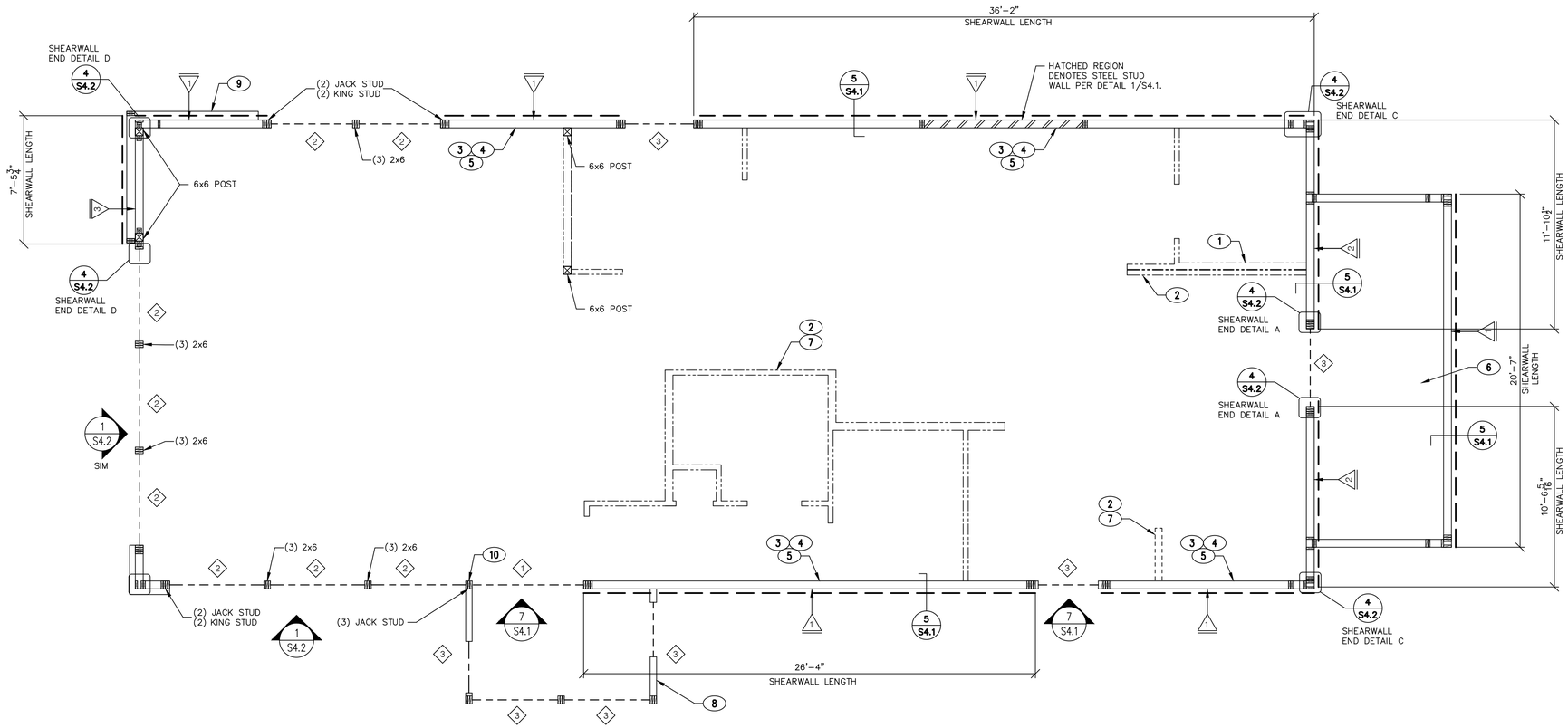
3615 BREMEN HWY
MISHAWAKA, IN 46544

EXPLORER LITE
MEDIUM40

FOUNDATION PLAN

S1.0

6/29/20



WALL FRAMING PLAN

SCALE:

WALL FRAMING PLAN 1/4" = 1'-0" **A**

MARK	BUILT-UP SECTION	MANUF. MEMBER
1	(3) 2x12	–
2	(3) 2x8	–
3	(3) 2x6	–

NOTES:

1. BUILT-UP HEADER SECTION SHALL HAVE 1/2" PLYWOOD SANDWICHED PIECES. REF 14/S4.1

HEADER SCHEDULE E

SW	SHEATHING	EDGE	FIELD	PLATE / ANCHOR BOLT	REMARKS
1	1/2" CDX PLYWD (32/16), PS1 RATING	6d @ 6" O.C.	10d @ 12" O.C.	5/8" DIA. F1554 (8x3) @ 32" O.C. W/ WASHER	PLYWOOD ON EXTERIOR FACE OF STUDS
2	1/2" CDX PLYWD (32/16), PS1 RATING	8d @ 4" O.C.	10d @ 12" O.C.	5/8" DIA. F1554 (8x3) @ 32" O.C. W/ WASHER	PLYWOOD ON EXTERIOR FACE OF STUD
3	1/2" CDX PLYWD (32/16), PS1 RATING	10d @ 2" O.C.	10d @ 12" O.C.	5/8" DIA. F1554, (8x3) @ 12" O.C. W/ WASHER	PLYWOOD ON BOTH SIDES OF WALL
***	1/2" CDX PLYWD (32/16), PS1 RATING	10d @ 6" O.C.	10d @ 12" O.C.	5/8" DIA. F1554, (8x3) @ 48" O.C. W/ WASHER	NAILING @ HEADERS PER 12/S4.1

*** REQUIREMENTS FOR EXTERIOR NON-SHEARWALL WALLS

1. OSB OF COMPARABLE THICKNESS MAY BE USED IN LIEU OF PLYWOOD WHEN APPROVED IN WRITING BY THE PROJECT ENGINEER AND THE LOCAL JURISDICTION OF COMPARABLE THICKNESS MAY BE USED IN LIEU OF PLYWOOD WHEN APPROVED IN WRITING BY THE PROJECT ENGINEER AND THE LOCAL JURISDICTION.
2. BLOCK ALL UNSUPPORTED EDGES WITH 2x MATERIAL U.O.N. BLOCK EDGES WITH 3x MATERIAL WHERE 10d NAILING IS 3" O.C. OR LESS AND 8d NAILING IS 2" O.C. OR LESS.ALL UNSUPPORTED EDGES WITH 2x MATERIAL U.O.N. BLOCK EDGES WITH 3x MATERIAL WHERE 10d NAILING IS 3" O.C. OR LESS AND 8d NAILING IS 2" O.C. OR LESS.
3. ALL PLYWOOD NAILS SHALL BE COMMON WIRE. SEE SPECIFICATIONS FOR OTHER NAIL REQUIREMENTS.
4. EXTERIOR WALLS NOT DESIGNATED AS SHEARWALLS IN THE WALL FRAMING PLAN SHALL MEET REQUIREMENTS INDICATED FOR NON-SHEARWALL WALLS IN THE SCHEDULE ABOVE.EXTERIOR WALLS NOT DESIGNATED AS SHEARWALLS IN THE WALL FRAMING PLAN SHALL MEET REQUIREMENTS INDICATED FOR NON-SHEARWALL WALLS IN THE SCHEDULE ABOVE.
5. SHEARWALL LENGTHS WHERE NOTED ARE MINIMUM. DO NOT LOCATE HOLDDOWNS FROM THESE DIMENSIONS. SEE ARCH DWGS FOR ACTUAL WALL LENGTHS.SHEARWALL LENGTHS WHERE NOTED ARE MINIMUM. DO NOT LOCATE HOLDDOWNS FROM THESE DIMENSIONS. SEE ARCH DWGS FOR ACTUAL WALL LENGTHS.
6. HD REFERS TO SIMPSON STRONGTIE CO. HOLDDOWNS. INSTALL PER 6/S4.0. POST WIDTH SHALL MATCH STUD WALL WIDTH. SEE FOUNDATION PLAN FOR OTHER REQ'S.
7. EDGE NAIL WALL PLY TO STUDS OR POSTS WITH HOLD-DOWNS.
8. WHERE PANELS ARE APPLIED TO BOTH FACES OF A WALL AND NAIL SPACING IS LESS THAN 6" O.C. ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO WALL ON DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3x OR THICKER AND NAILS ON EACH SIDE SHALL BE STAGGERED.

WALL SHEATHING AND SHEARWALL SCHEDULE D

WALL FRAMING:

A. EXTERIOR WALL NON-BEARING & BEARING STUDS SHALL BE NO. 2 DOUG-FIR. 6x6 POSTS TO BE DOUG-FIR #2. INTERIOR WALL STUDS MAY BE STUD GRADE.
B. ALL BEAMS AND JOISTS SHALL BE SEAT CUT FOR FULL UNIFORM BEARING AT SUPPORTS, BEAM SEATS AND COLUMN CAPS.
C. SEE SHEET A1.0 FOR DIMENSIONS.
D. EXTERIOR STUD WALLS ARE 2x6 AT 16" O.C. U.O.N.
E. ALL WOOD IN CONTACT WITH CONC., STEEL OR GRADE SHALL BE PRESSURE TREATED.
F. ALL BOLTED OR NAILED STRAP CONNECTIONS SHALL HAVE AN EQUAL NUMBER OF BOLTS OR NAILS EACH SIDE OF THE SPLICE JOINT. THE FIRST BOLT OR NAIL FROM EACH SIDE OF THE SPLICED OR TREATED MEMBER SHALL BE EQUAL DISTANCE FROM THE SPLICE. STRAPS USING 16d NAILS ON 2x MATERIAL SHALL BE INSTALLED ON THE 1-1/2" EDGE OF THE MEMBER.
G. THE CONTRACTOR SHALL VERIFY THAT THE MOISTURE CONTENT OF ALL FRAMING LUMBER AND PLYWOOD MEET THE REQUIREMENTS OF THE SPECS. AT THE TIME OF INSTALLATION AND AT CLOSE-IN.
H. USE AT PRESSURE TREATED LUMBER AT WINDOW JAMBS, SILL AND STUDS UNDER SILL AS WELL AS ALL TOILET PLUMBING WALLS.

STUD LAYOUT:

A. LAYOUT STUDS ON SIDEWALLS (LONG WALLS) STARTING AT REAR OF BUILDING TOWARDS FRONT.
B. LAYOUT STUDS ON ENDWALLS (SHORT WALLS) STARTING AT EACH END AND WORKING TOWARDS CENTER.

FRAMING PLAN NOTES C

1. COORDINATE WITH ELECTRICAL POWER PLAN SHEET E3.0.
2. INTERIOR NON-BEARING STUD WALL FRAMING; REFER TO SHEET A1.0 FOR DIMENSIONS AND STUD SIZES. SEE DETAIL 10 & 11/S4.1 AND WALL FRAMING NOTES.
3. (2) 2x6 TOP PLATES - SPLICE PER 12/S4.1. U.O.N. REF. 1/S4.3 FOR CAP DETAIL.
4. TOP OF TRUSS BEARING PLATE. SEE DETAIL 2/S4.1.
5. TOP OF PARAPET. SEE DETAIL 1/S4.3.
6. FREEZER/COOLER BY MANUFACTURER.
7. COORDINATE WITH PLUMBING ROUGH IN SHEET P4.0.
8. AT OWNER/ CONTRACTOR OPTION: VESTIBULE.
9. USE (2) 2x6 BUILT UP STUDS AT 16" O.C. FOR EXTERIOR TOWER STUD WALL.
10. POST TO HEADER CONNECTION PER DETAIL 6/S4.3

KEY NOTES

PROJECT NUMBER	20-0616
PROJECT MANAGER	RAD
PROJECT ENGINEER	SA
PROJECT DRAFTER	MJN

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SANDRA J. HERD
REGISTERED
No. 12000373
STATE OF INDIANA
PROFESSIONAL ENGINEER
08-07-20

1 OWN/STATE COMMENTS 08.10.20
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3
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5

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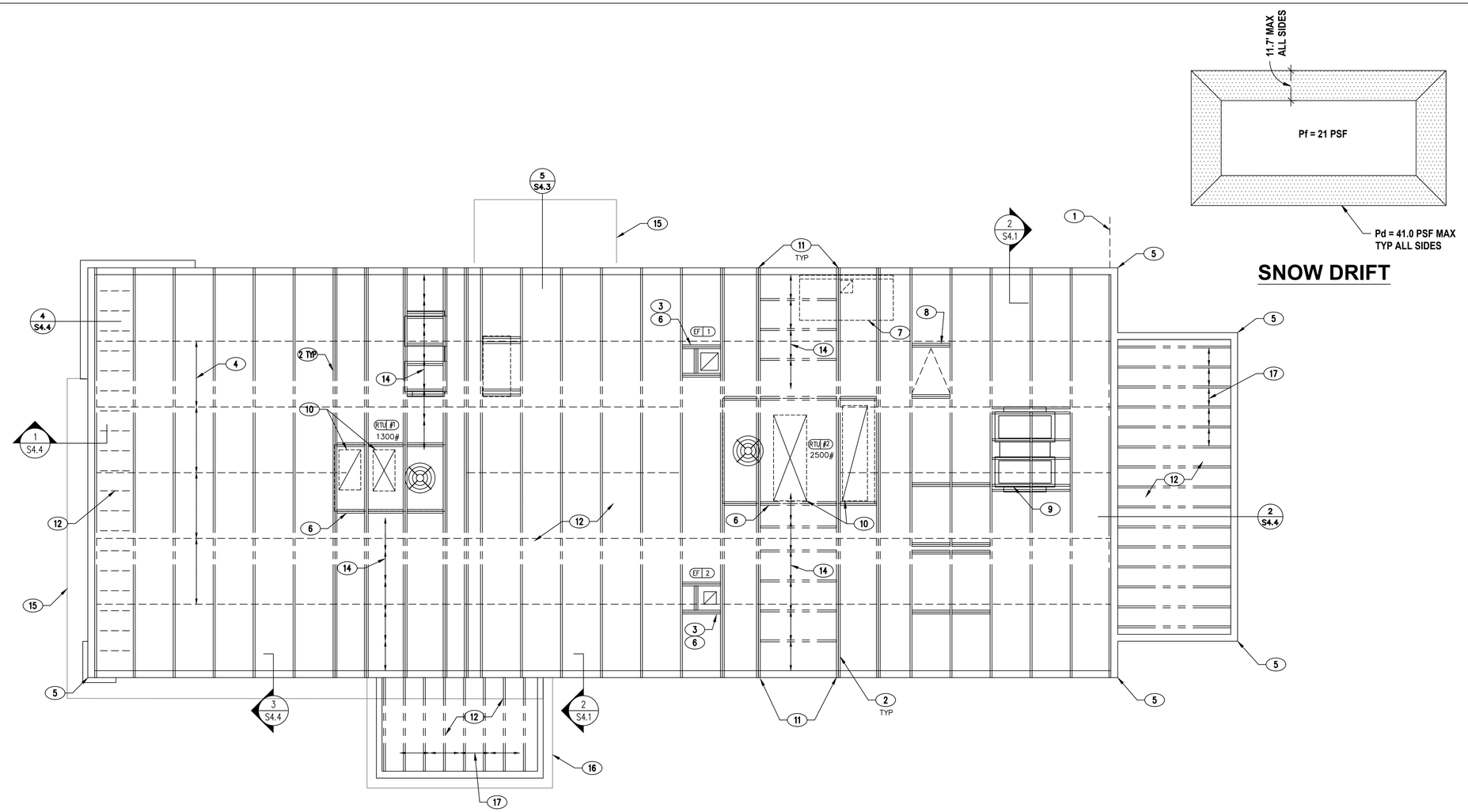
TACO BELL
EXPLORER LITE
MEDIUM40

WALL FRAMING PLAN

S2.0

6/29/20



ROOF FRAMING PLAN

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

TYPE	NAILING / SHEATHING	REMARKS
BN	10d @ 6" O.C.	
EN	10d @ 6" O.C.	
FN	10d @ 12" O.C.	
ROOF SHEATHING	5/8" CDX PLYWOOD (40/20), PS1 RATING	

NOTE:

SEE 8/S4.2 FOR DEFINITIONS.

NAILING SCHEDULE - ROOF D

ROOF FRAMING NOTES:

A. ALL UNSUPPORTED EDGES OF PLYWOOD SHEATHING SHALL BE SUPPORTED WITH SIMPSON PSCL CLIPS, PROVIDE (2) CLIPS EQUALLY SPACED BETWEEN EACH TRUSS/SUPPORT. SEE DETAIL 9/S4.2. OSB OF COMPARABLE THICKNESS MAY BE USED IN LIEU OF PLYWOOD WHEN APPROVED IN WRITING BY THE PROJECT ENGINEER AND THE LOCAL JURISDICTION.
B. ALL MECHANICAL SUPPLY AND RETURN OPENINGS SHALL BE BETWEEN FRAMING U.O.N.

MANUFACTURED ROOF TRUSS NOTES:

A. MFR'D ROOF TRUSSES ARE AT 2'-8" O.C. U.O.N.
B. "T-#" DENOTES ROOF TRUSS TYPE. REFER TO SCHEDULE 7/S4.2.
C. TRUSS DWGS ARE PROVIDED FOR CONCEPTUAL DESIGN ONLY. MFR SHALL SUBMIT SHOP DWGS AND CALCS, BOTH SIGNED BY A LICENSED STRUCTURAL ENGINEER (STATE OF INDIANA). SUBMIT SHOP DWGS AND CALCS TO THE ARCHITECT AND ENGINEER FOR REVIEW AND SUBMITTAL AND , IF REQUIRED, TO BLDG OFFICIAL FOR APPROVAL PRIOR TO FABRICATION. SHOP DWGS SHALL INCLUDE LAYOUT PLAN AND CONNECTORS. CALCS SHALL BE BASED ON THE SPECIFIED LOADING CONDITIONS SHOWN HEREIN. MFR SHALL PROVIDE HANGERS AND CONNECTIONS BETWEEN TRUSSES. REVIEW AND APPROVE DIMENSIONS, SHAPES AND DETAILS SHOWN ON SHOP DWGS PRIOR TO SUBMITTAL TO THE ARCHITECT / ENGINEER FOR REVIEW AND COMMENT.
D. TRUSS MFR SHALL PROVIDE HANGERS AND CONNECTORS ADEQUATE FOR LOADS. ROOF CONNECTORS ARE BASED UPON SIMPSON "STRONG TIE" OR APPROVED EQUAL.
E. TRUSS CHORDS AND PARAPET VERTICALS SHALL BE 2x6 MIN AND CONSISTENTLY SIZED THROUGHOUT PROJECT.
F. REFER TO TRUSS ELEVATIONS FOR SHAPE, OVERHANG, SLOPES, SPAN, ETC. LOCATION OF BEARING POINTS ARE AS INDICATED ON THE DRAWINGS. SEE 2/S4.2.
G. MFR'D ROOF TRUSS DESIGN LOADS: SEE TRUSS DESIGN CRITERIA 3/S4.2.
H. THE POSITIONS, WEIGHTS, AND METHODS OF ATTACHMENT OF ALL MECHANICAL UNITS, ELECT FIXTURES, PLUMBING, ETC. SHALL BE INCLUDED IN THE DESIGN OF THE TRUSSES BY THE TRUSS MFR.
I. DESIGN ROOF TRUSSES TO SUPPORT ALL IMPOSED LOADS, INCLUDING WIND & LATERAL LOADS. COORDINATE SIZE, LOCATION AND WEIGHT OF EQUIPMENT WITH MECHANICAL WORK. PROVIDE MULTIPLE TRUSSES WHERE ONE TRUSS CANNOT SUPPORT THE LOAD. PROVIDE BRIDGING BETWEEN TRUSSES AS SPECIFIED AS MINIMUM STANDARD.
J. INSTALLATION OF ALL TRUSSES SHALL BE DONE USING A SPREADER BAR WITH A THREE POINT VERTICAL PICK. CARE SHALL BE USED IN LIFTING TO PREVENT HORIZONTAL BENDING.
K. IMPROPER HANDLING OF THE TRUSSES AS NOTED ABOVE AND IN THE SPECS SHALL MEAN REMOVAL OF THE TRUSSES FROM THE JOBSITE AND REPLACEMENT AT CONTRACTOR'S EXPENSE.
L. SEE DIV. 6 OF THE SPECS FOR DETAILS ON TRUSS MANUFACTURING AND NAILING.
M. TRUSS MANUFACTURER SHALL KEEP CHORD SPLICES AWAY FROM PANEL POINTS TO MINIMIZE PRESS PLATE PROFILE DIMENSIONS.

ROOF FRAMING NOTES C

1. STARTING POINT OF TRUSS LAYOUT - CENTERLINE OF TRUSS.
2. VERIFY NECESSITY OF DOUBLE TRUSSES WITH TRUSS MFR. DUE TO POINT LOADING AND ADDITIONAL UNIFORM LOADING, TYPICAL.
3. COORDINATE BLOCKING WITH EXHAUST AND SUPPLY DUCT.
4. CONT 2x4 WD BRIDGING ON TOP OF BOTTOM CHORD. ADJUST AS REQUIRED FOR DUCT PLENUMS, MAX SPACING AT 5'-0" O.C. OR TIGHTER SPACING AS REQUIRED BY TRUSS DESIGN. SEE 13/S4.1 FOR BRIDGING LAP DETAIL.
5. SIMPSON MSTA 24 AT CORNER DBL TOP PLATE. CENTER STRAP ON CORNER.
6. (2) 2x6 BLOCKING W/ U26-2 HANGERS. TYP. EDGES OF ALL ROOF TOP EQUIPMENT AND ALL ROOF OPENINGS - SEE DET. 6 & 10/S4.2.
7. LOC. OF HOOD. SEE HOOD DRAWINGS FOR HOOD ATTACHMENT DETAIL 6/S4.1.
8. ROOF HATCH.
9. BLOCKING UNIT ON ROOF TOP EQUIPMENT. COORDINATE WITH MECHAMICAL.
10. HVAC ROOF OPENING FOR DUCT. VERIFY SIZE WITH HVAC MFR. & MECHANICAL DWGS.
11. (2)2x6 BUILT-UP COLUMN AT TRUSS BEARING, TYP. @ GIRDER. TRUSS ONLY. REF. DETAIL 12/S4.2.
12. KICKERS PER DETAIL 3/S4.4.
12. 19/32" PLYWOOD ROOF DECK. SEE NAILING SCHEDULE, THIS SHEET.
13. NOT USED.
14. 2X6 @ 2'-0" O.C. WITH SIMPSON U-26 EA. END.
15. CANOPY BY MANUF.
16. AT OWNER/ CONTRACTOR OPTION: VESTIBULE.
17. 2x6 AT 16" O.C.

KEY NOTES B

ROOF FRAMING PLAN 1/4" = 1'-0" A

PROJECT NUMBER	20-0616
PROJECT MANAGER	RAD
PROJECT ENGINEER	SA
PROJECT DRAFTER	MJN

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SANDRA J. HERD REGISTERED No. 12000373 STATE OF INDIANA PROFESSIONAL ENGINEER
08-07-20

⚠	OWN/STATE COMMENTS 08.10.20
△	
△	
△	
△	

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

TACO BELL

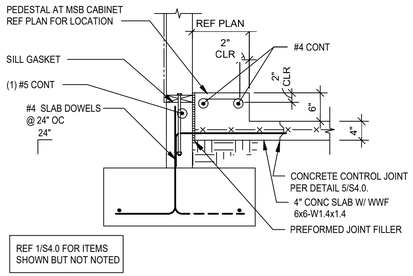
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

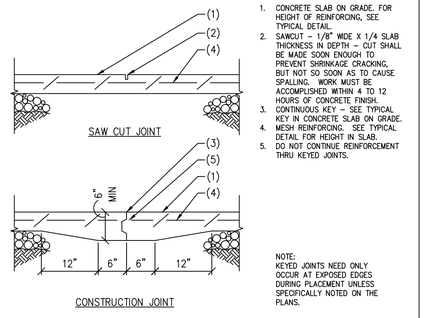
ROOF FRAMING PLAN

S3.0

6/29/20



EQUIPMENT PEDESTAL SECTION 3/4" = 1'-0" | 9

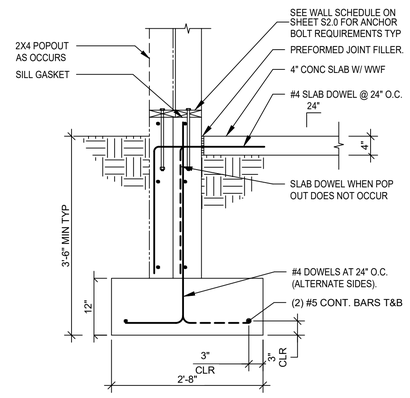


NOTES:

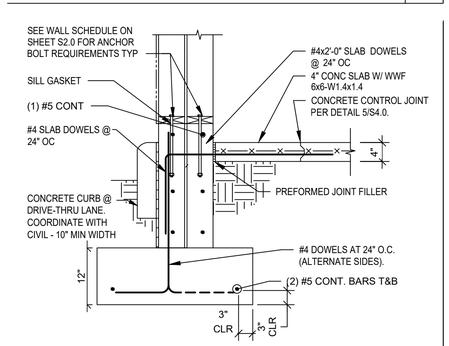
1. CONCRETE SLAB ON GRADE. FOR HEIGHT OF REINFORCING, SEE TYPICAL DETAIL.
2. SAWCUT – 1/8" WIDE X 1/4 SLAB THICKNESS IN DEPTH – CUT SHALL BE MADE SOON ENOUGH TO PREVENT SHRINKAGE CRACKING, BUT NOT SO SOON AS TO CAUSE SPALLING. WORK MUST BE ACCOMPLISHED WITHIN 4 TO 12 HOURS OF CONCRETE FINISH.
3. CONTINUOUS KEY – SEE TYPICAL KEY IN CONCRETE SLAB ON GRADE.
4. MESH REINFORCING. SEE TYPICAL DETAIL FOR HEIGHT IN SLAB.
5. DO NOT CONTINUE REINFORCEMENT THRU KEYED JOINTS.

NOTE:
KEYED JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING PLACEMENT UNLESS SPECIFICALLY NOTED ON THE PLANS.

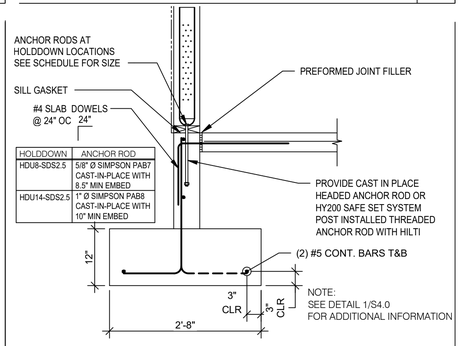
CONTROL JOINTS 3/4" = 1'-0" | 5



FOOTING AT SIDE AND REAR WALLS 3/4" = 1'-0" | 1

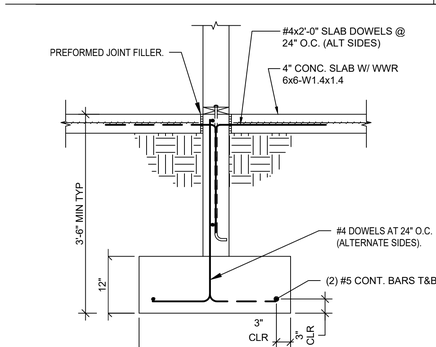


FOOTING AT DRIVE THRU 3/4" = 1'-0" | 10

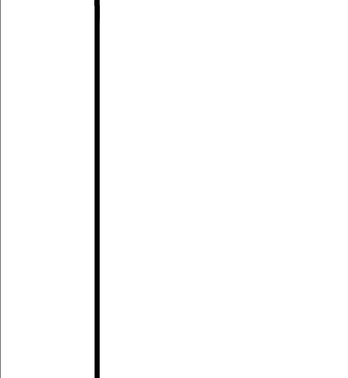


HOLDDOWN	ANCHOR ROD
HDU8-SDS2.5	5/8" Ø SIMPSON PAB7 CAST-IN-PLACE WITH 8.5" MIN EMBED
HDU14-SDS2.5	1" Ø SIMPSON PAB8 CAST-IN-PLACE WITH 10" MIN EMBED

HOLDDOWN DETAIL 3/4" = 1'-0" | 6



FOOTING AT SHEARWALL 2 3/4" = 1'-0" | 2

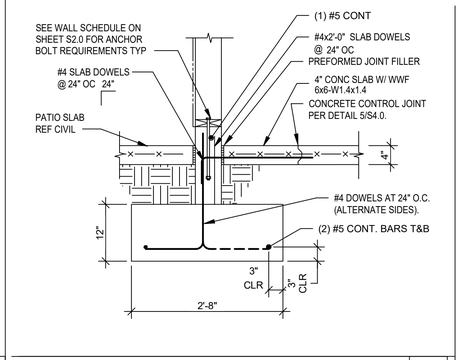


NOTES:

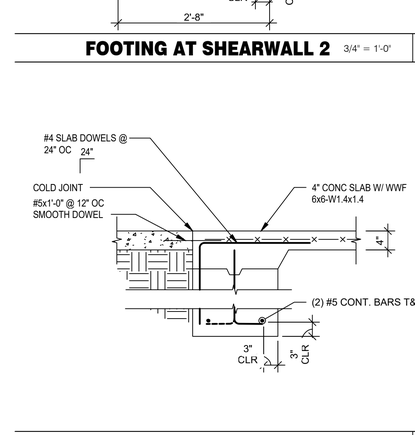
1. LIGHT POLE PER LIGHT POLE MFR.
2. DOUBLE NUTS.
3. 1 1/2"ø DRYPACK.
4. 1" CHAMFER.
5. 3 ADDITIONAL TIES IN TOP 5".
6. 24" DIA CONCRETE PIER WITH 6 #6 VERTICALS AND #3 TIES AT 12" O.C.
7. FINISHED GRADE OR CONCRETE SLAB AS OCCURS.
8. STAGGER LAPS 180° AT ALTERNATE TIES.
9. 1'-0" FOR #3.
10. BASE PLATE AND A.B. PER LIGHT POLE MFR.

NOTE:
ADDITIONAL 1'-0" OF CONCRETE BASE DEPTH AT LANDSCAPED AREAS.

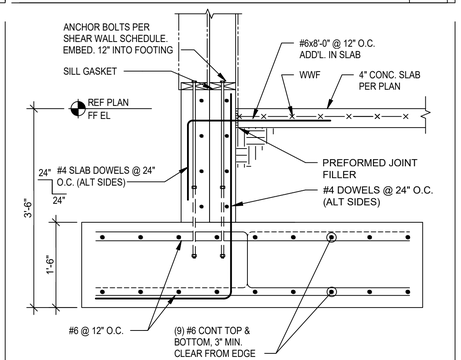
FOUNDATION 25'-0" MAX LIGHT POLE 3/4" = 1'-0" | 11



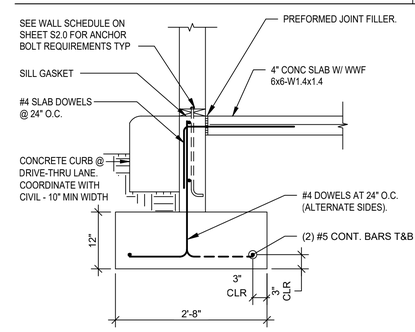
FOOTING AT FRONT WALL 3/4" = 1'-0" | 7



FOOTING AT FULL HEIGHT OPENING 3/4" = 1'-0" | 3



FOOTING AT SHEARWALL 3 3/4" = 1'-0" | 8



FOOTING AT DRIVE THRU 3/4" = 1'-0" | 4

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TACO BELL

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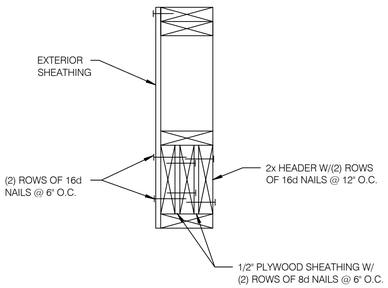
MEDIUM40

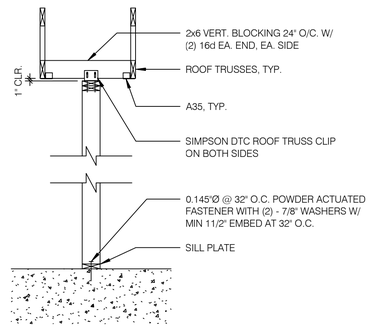
STRUCTURAL DETAILS

S4.0

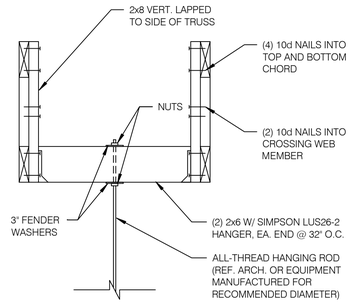
6/29/20



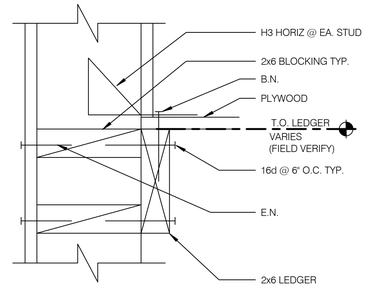
TYP. MULTIPLE HEADER 1-1/2" = 1'-0" | **14**



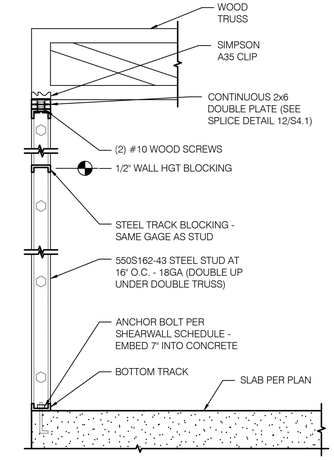
SUPPORT - PARALLEL TO TRUSS N.T.S. | **10**



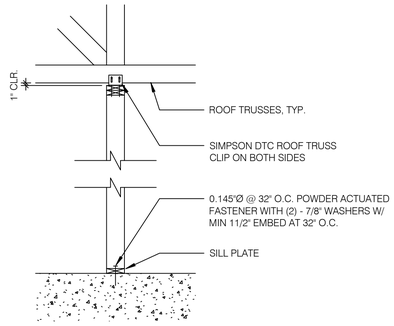
HANGING BULKHD. OR HOOD DETL. N.T.S. | **6**



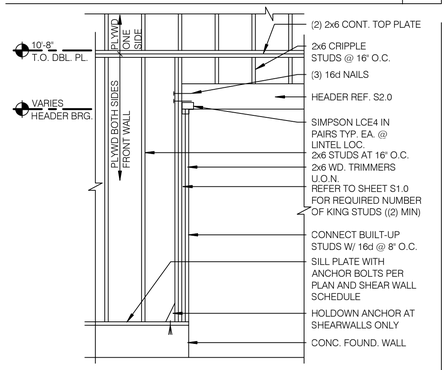
LEDGER DETAIL N.T.S. | **3**



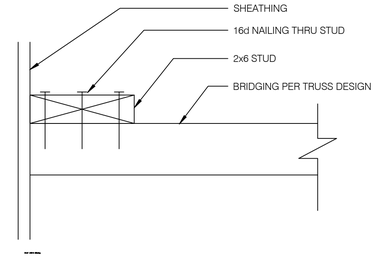
DETAIL NOT USED N.T.S. | **1**



SUPPORT PERP. TO TRUSS N.T.S. | **11**



FRAMING ELEVATION @ OPENING N.T.S. | **7**



BRIDGING DETAIL N.T.S. | **4**

DETAIL NOT USED N.T.S. | **1**

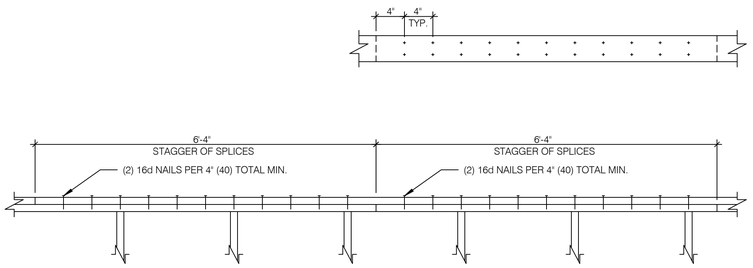
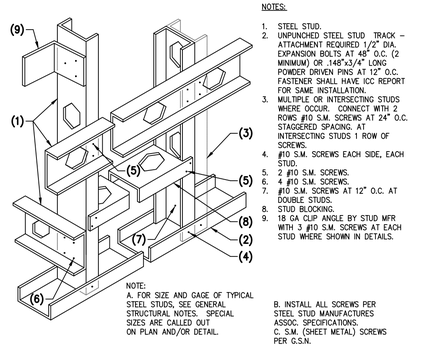
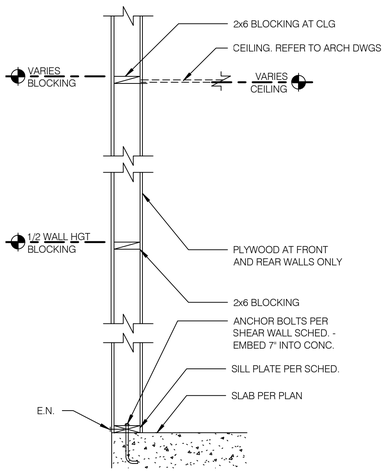


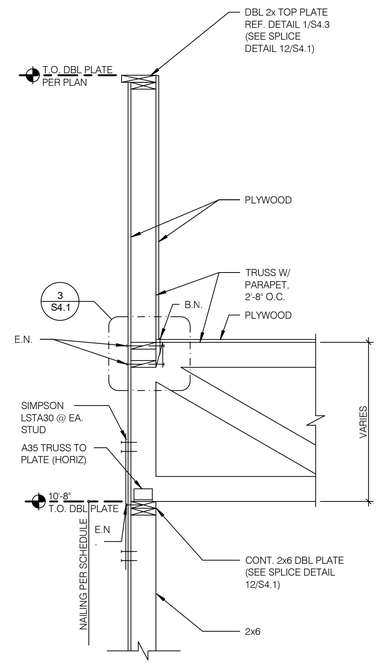
PLATE LAP DETAIL 1" = 1'-0" | **12**



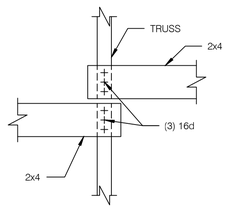
DETAIL NOT USED 1/4" = 1'-0" | **8**



TYPICAL WALL BELOW TRUSS 3/4" = 1'-0" | **5**

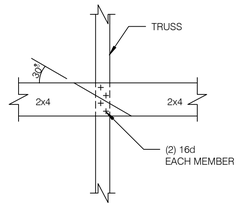


SIDE WALL @ TRUSS N.T.S. | **2**



NOTE: REFER TO TRUSS ELEVATION 2/S4.2.
SEE 9/S4.1 AT OPEN CEILING.

BRIDING LAP DETAIL N.T.S. | **13**



NOTE: REFER TO TRUSS ELEVATION 2/S4.2.

BRIDGING LAP DETAIL @ OPEN CLG. N.T.S. | **9**

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TACO BELL

EXPLORER LITE
MEDIUM40

STRUCTURAL DETAILS

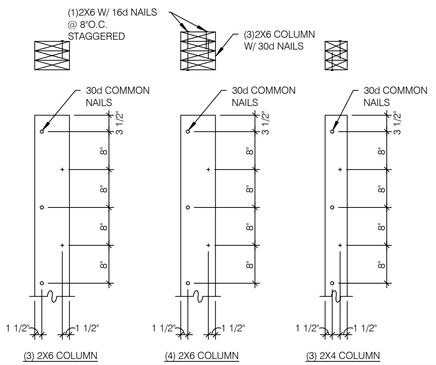
S4.1

6/29/20

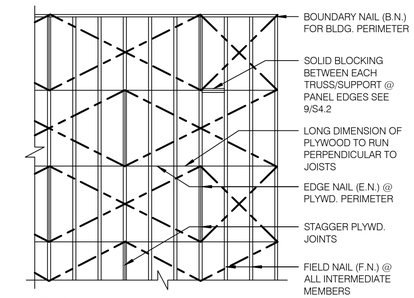
CONNECTION TYPE: NAILING:

1. JOIST TO SILL OR GIRDER, TOENAIL	(3-8d)
2. BRIDGING TO JOIST, TOENAIL EACH END	(2-8d)
3. 1"x6" (25MMx152MM) SUBFLOOR OR LESS TO JOIST, FACE NAIL	(2-8d)
4. WIDER THAN 1" X 6"(25MMx152MM) SUBFLOOR TO JOIST, FACE NAIL	(3-8d)
5. 2" (52MM) SUBFLOOR TO GIRDER, BLIND AND FACE NAIL	(2-16d)
6. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL	(16d @16" O.C.)
7. SOLE PLATE TO JOIST OR BLOCKING, AT BRACED W. PANELS	(3-16d PER 16")
8. TOP PLATE TO STUD, END NAIL	(2-16d)
9. STUD TO SOLE PLATE	(2-16d END NAIL)
10. DOUBLE STUDS, FACE NAIL	(16d @ 24", O.C.)
11. DOUBLE TOP PLATES, TYPICAL FACE NAIL	(16d @ 16" O.C.)
12. DOUBLE TOP PLATES, LAP SPLICE	(8-16d)
13. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	(3-8d)
14. RIM JOIST TO TOP PLATE, TOENAIL	(8d @ 6" O.C.)
15. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	(2-16D)
16. CONTINUOUS HEADER, TWO PIECES	(16d @ 16" O.C. ALONG EDGE)
17. CEILING JOISTS TO PLATE, TOENAIL	(3-8d)
18. CONTINUOUS HEADER TO STUD, TOENAIL	(4-8d)
19. CEILING JOISTS, LAP OVER PARTITIONS, FACE NAIL	(3-16d)
20. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3-16d)
21. RAFTER TO PLATE, TOENAIL	(3-8d)
22. 1" (25MM) BRACE TO EACH STUD AND PLATE, FACE NAIL	(2-8d)
23. 1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL	(2-8d)
24. WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL	(3-8d)
25. BUILT-UP CORNER STUDS	(16d @ 24" O.C.)
26. 2" PLANKS	(2-16d AT EACH SPLICE)
27. 2x6 BOX BEAM / HEADER	(12d @ 12" O.C.)
28. BUILT-UP GIRDER AND BEAMS	(20d @ 32" O.C. AT TOP & BOTTOM AND STAGGERED 2-20d AT ENDS AND AT EACH SPLICE)

NAILING SCHEDULE N.T.S. **11**

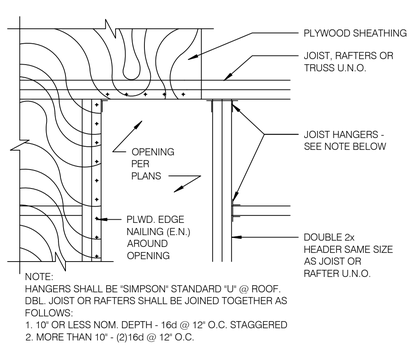


BUILT-UP 2X COLUMNS N.T.S. **12**



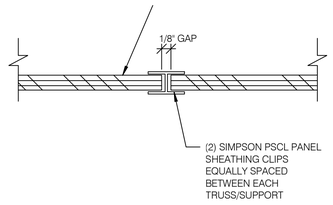
NOTES:
1. MIN. PLYWD. SHT. SIZE SHALL BE 2'-0" X 4'-0".
2. MIN. 3/8" NAILING EDGE DISTANCE.
3. EDGE NAIL (E.N.) O/ BEAMS AND AROUND ALL OPENINGS.

ROOF NAILING PLAN N.T.S. **8**



NOTE:
HANGERS SHALL BE "SIMPSON" STANDARD "U" @ ROOF. DBL. JOIST OR RAFTERS SHALL BE JOINED TOGETHER AS FOLLOWS:
1. 10' OR LESS NOM. DEPTH - 16d @ 12" O.C. STAGGERED
2. MORE THAN 10" - (2)16d @ 12" O.C.

TYPICAL ROOF OPENING 1" = 1'-0" **10**

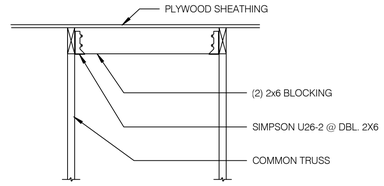


PLYWOOD EDGE BLOCKING N.T.S. **9**

EQUIPMENT		DESIGN WEIGHT
HVAC UNIT - RTU-1	*	1300 lbs.
HVAC UNIT - RTU-2	*	2500 lbs.
EXHAUST FAN - EF-1	*	200 lbs.
EXHAUST FAN - EF-2	*	70 lbs.
HOOD #1 - TACO BELL		300 lbs.
ICE CONDENSERS		200 lbs.
FREEZER CONDENSER		300 lbs.
COOLER CONDENSER		300 lbs.

* A. ALL DESIGN WEIGHTS INCLUDE CURB.
B. COORDINATE WEIGHTS WITH HVAC UNIT SCHEDULE 1/M1.0.

ROOF TOP EQUIPMENT WEIGHTS N.T.S. **5**



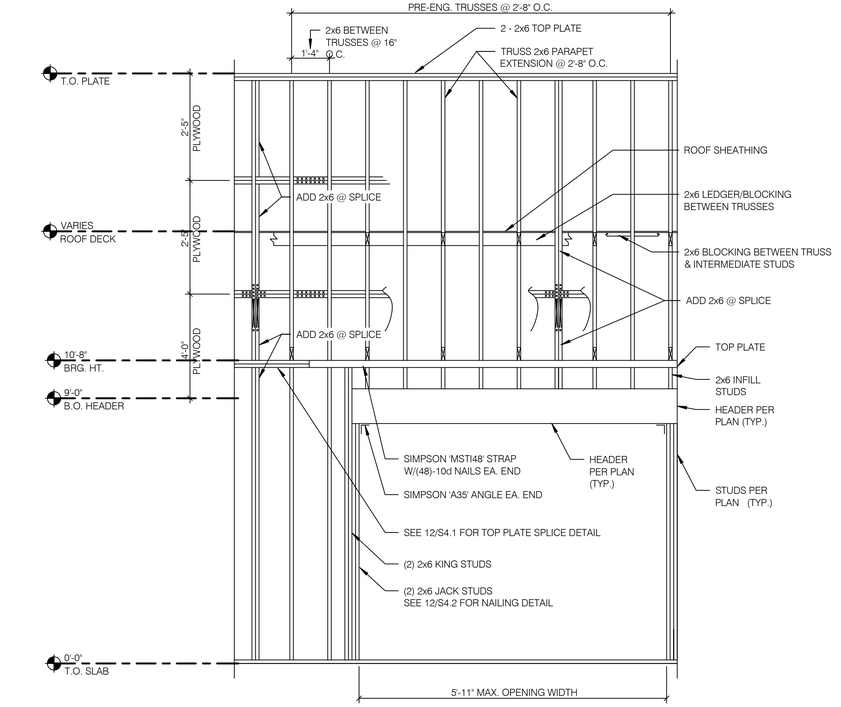
ROOF OPENING DETAIL N.T.S. **6**

TRUSS TYPES	SINGLE TRUSS DESIGNATION	DOUBLE TRUSS DESIGNATION	BEARING POINT	COMMENTS
T1 - T28	X	XX	△	SEE NOTE 1.

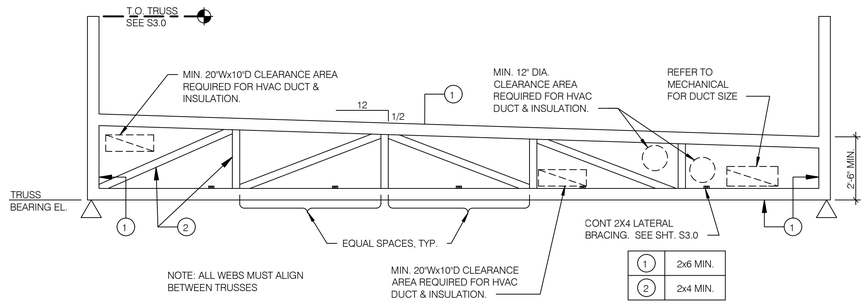
NOTES:

1. HOLDOWN CONNECTORS SHALL BE SPECIFIED BY SITE SPECIFIC ARCHITECT/ ENGINEER BASED UPON LOADING DATA PROVIDED BY TRUSS DESIGNER.
2. PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION.
3. TRUSS MEMBER SIZES ARE FOR REFERENCE ONLY. ACTUAL SIZE SHALL BE DETERMINED BY TRUSS MANUFACTURER BASED ON ACTUAL LOAD CONDITIONS AND CODES,

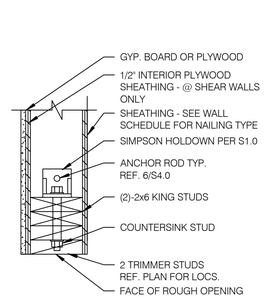
TRUSS SCHEDULE N.T.S. **7**



WALL FRAMING DETAIL 3/8" = 1'-0" **1**



TRUSS ELEVATION N.T.S. **2**



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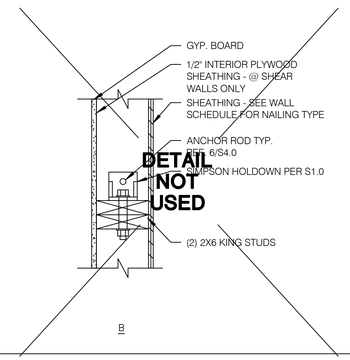

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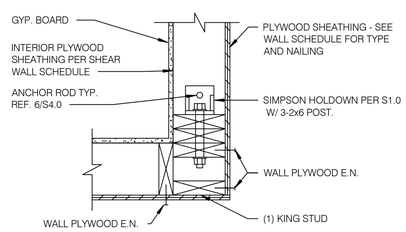

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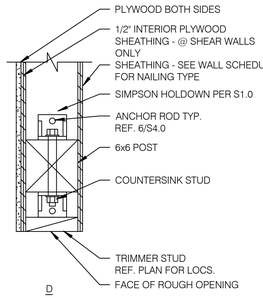
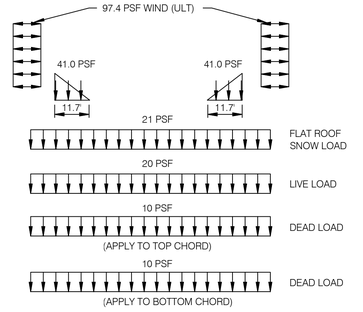


D

HOLDOWN DETAILS 1 1/2" = 1'-0" **4**



NOTE:
ALSO, APPLY ROOF TOP AND SUSPENDED POINT LOADS. WEIGHT AND LOCATION OF UNITS AS NOTED ARE SHOWN ON THIS SHEET AND ARE NOT INCLUDED IN THE ABOVE LOADING DIAGRAM. VERIFY THESE LOADS WITH MECHANICAL SUPPLIER BEFORE DESIGNING TRUSS.

TRUSS LOAD DIAGRAMS N.T.S. **3**

PROJECT NUMBER	20-0616
PROJECT MANAGER	RAD
PROJECT ENGINEER	SA
PROJECT DRAFTER	MJN

CARUSO TURLEY SCOTT INC., consulting structural engineers
1215 W. Rio Salado Pkwy Suite 200
Tempe, Arizona 85281
(480) 774-1700
(480) 774-1701 FAX

SANDRA J. HERD REGISTERED No. 12000373 STATE OF INDIANA PROFESSIONAL ENGINEER 08-07-20

⚠1	OWN/STATE COMMENTS 08.10.20
△	
△	
△	
△	

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

TACO BELL

3615 BREMEN HWY
MISHAWAKA, IN 46544

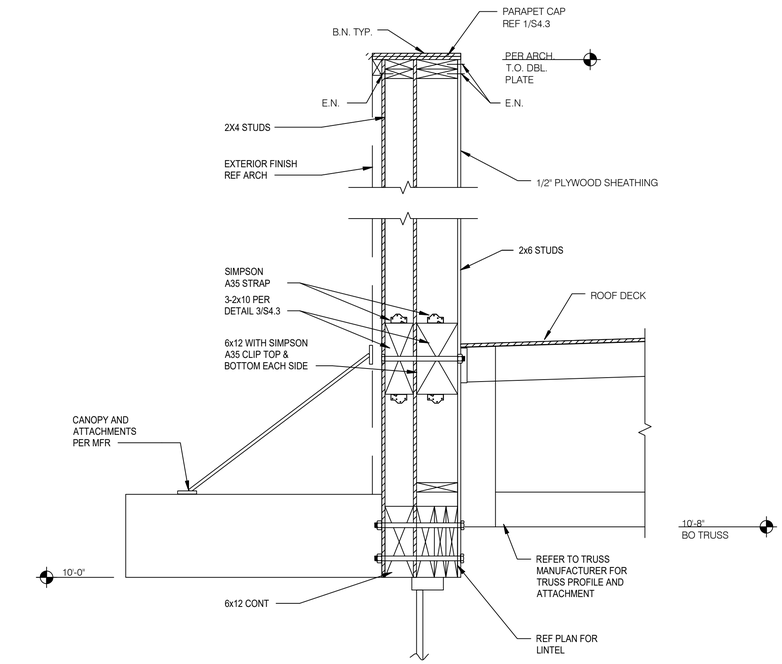
TACO BELL

EXPLORER LITE
MEDIUM40

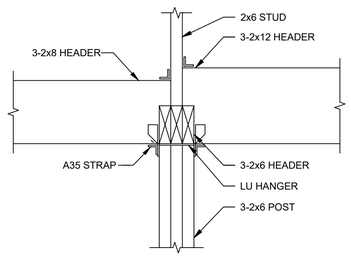
STRUCTURAL DETAILS

S4.2

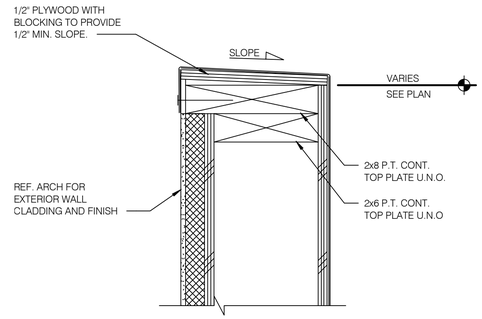
6/29/20



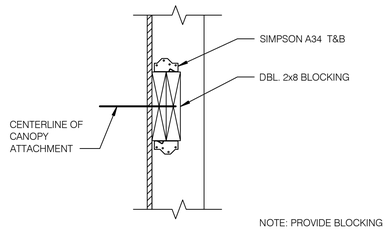
DRIVE THRU TOWER 1" = 1'-0" | **5**



HEADER CONNECTION 1" = 1'-0" | **6**

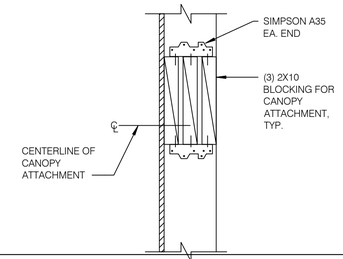


TYPICAL PARAPET CAP 12" = 1'-0" | **1**

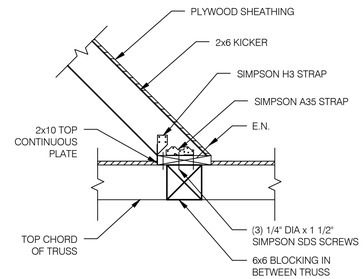


NOTE: PROVIDE BLOCKING
AT EACH LAG SCREW
LOCATION FROM SLATWALL
SUPPORTS

SIGNAGE ATTACH. BLOCKING DTL. 1 1/2" = 1'-0" | **2**



CANOPY TIE BACK BLOCKING DETAIL 12" = 1'-0" | **3**



KICKER TO ROOF CONNECTION AT STOREFRONT 3/4" = 1'-0" | **4**

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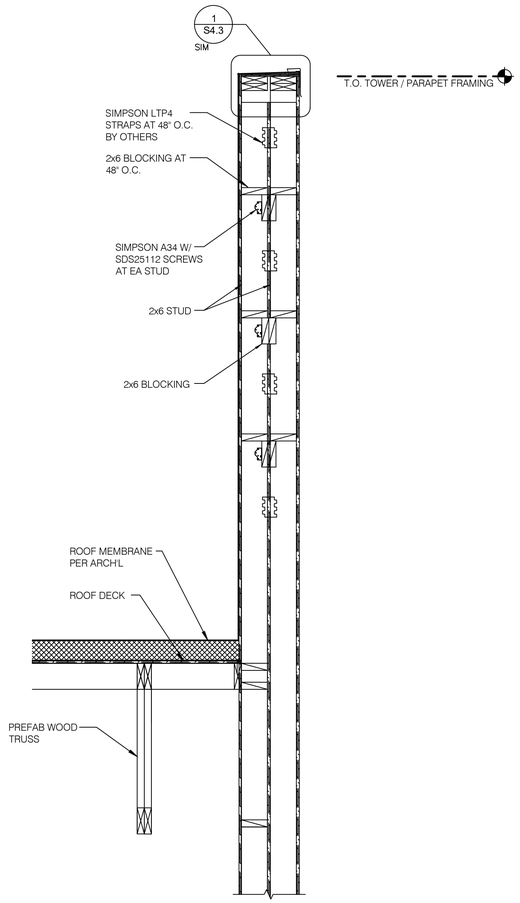
MEDIUM40

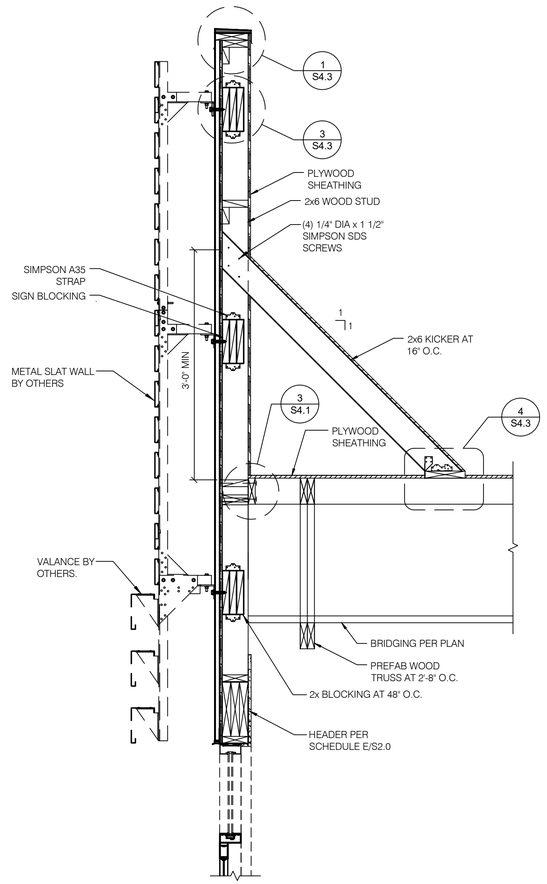
STRUCTURAL DETAILS

S4.3

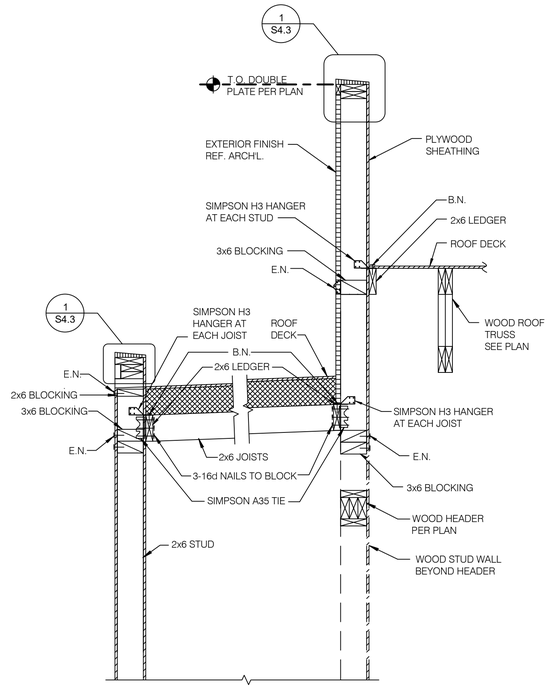
6/29/20



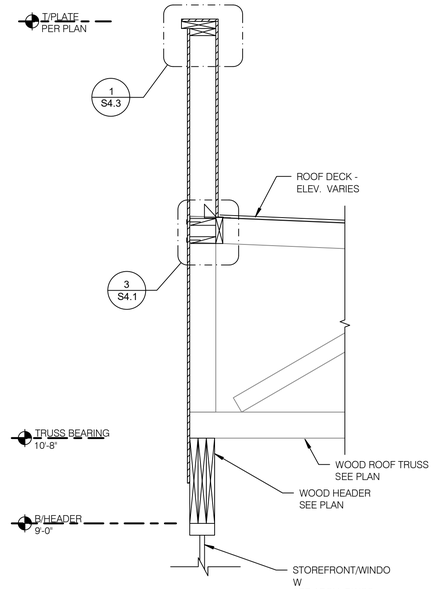
SECTION @ TOWER 3/4" = 1'-0" | **4**



CANOPY TIE BACK BLOCKING DETAIL 3/4" = 1'-0" | **3**



SECTION @ WALK IN COOLER 3/4" = 1'-0" | **2**



SECTION @ DINING WINDOW 3/4" = 1'-0" | **1**

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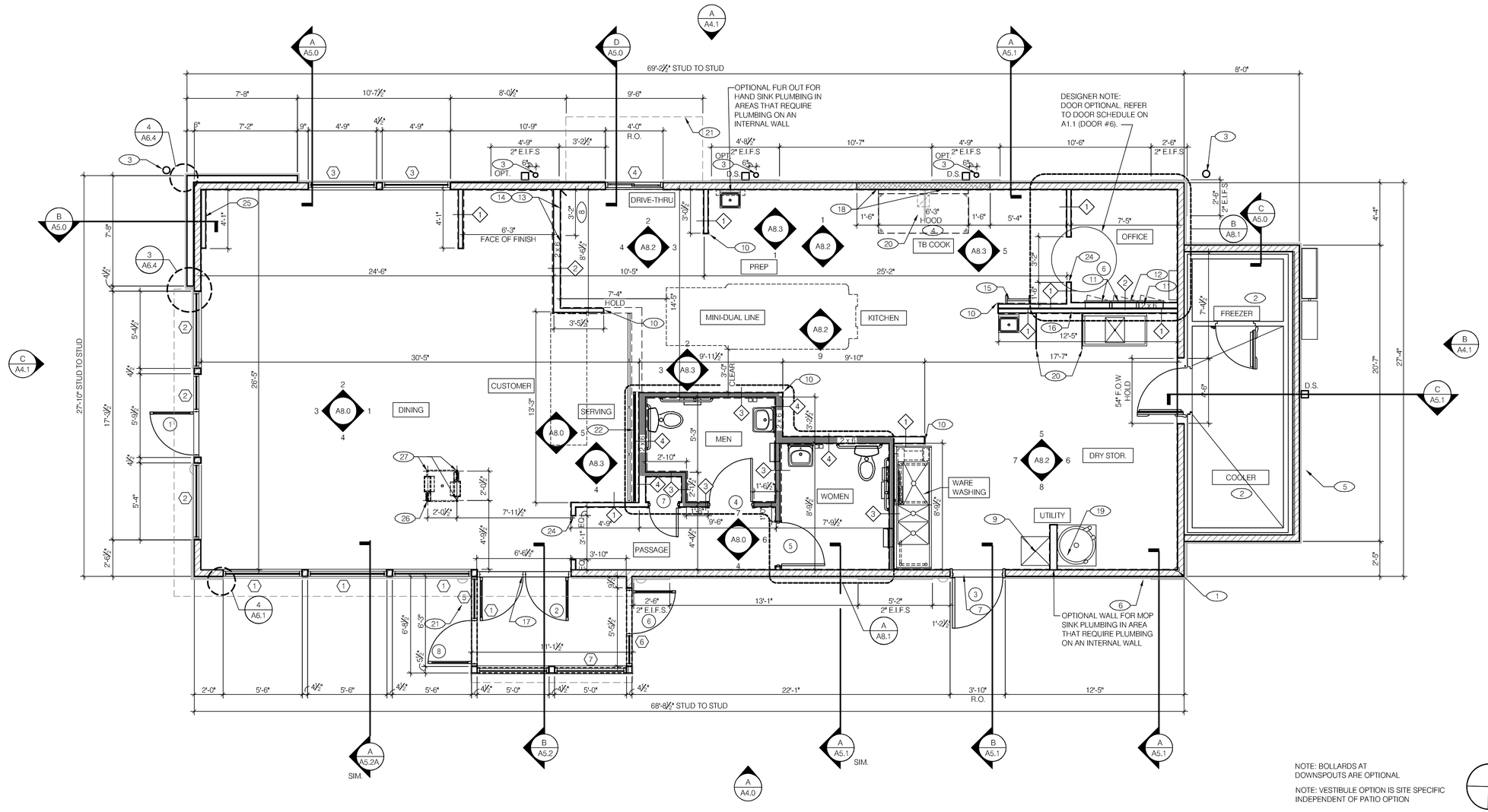
EXPLORER LITE
MEDIUM40

STRUCTURAL DETAILS

S4.4

6/29/20



FLOOR PLAN 1/4"= 1'-0" **A**

TYPICAL EXTERIOR WALL:
2x6 WD STUDS AT 16" O.C. W/ SHEATHING AS SCHEDULED (SEE STRUCT. DWGS.) AND R-19 KRAFT-FACED FIBERGLASS BATT INSULATION U.O.N. GC SHALL PROVIDE 2 LAYERS OF GRADE 'D' 60 lb BUILDING PAPER.

TYPICAL INTERIOR WALL :
WD STUDS AT 16" O.C. AS INDICATED
1 2X4 WOOD STUDS
2 2X6 WOOD STUDS

INTERIOR SOUND-RATED WALL:
TYPICAL INTERIOR WALL W/ 3-1/2" UNFACED FIBERGLASS BATT INSULATION.
3 2X4 WOOD STUDS
4 2X6 WOOD STUDS

HOODWALL:
EXTERIOR WALL WITH 20 GA. S.S. PANEL BEHIND HOOD. EXTEND MIN. 18" BEYOND END OF HOOD. REFER TO DETAIL 2/M3.0 FOR EXTENT OF S.S. PANEL.

DASHED LINE INDICATES INTERIOR SUBSTRATE LOCATION.

WALL HEIGHTS:
ALL INTERIOR NON-BEARING WALLS GO TO BOTTOM OF TRUSS, U.O.N. REFER TO STRUCTURE.

WALL SUBSTRATES:
- DINING ROOM:
1/2" GYPSUM WALLBOARD FROM FLOOR SLAB TO 6" ABOVE CEILING HEIGHT U.O.N. SEE 6, 8 & 16 / A6.3. (NOTE: THE CEMENT BOARD SPECIFICATION IS DESIGNED TO ALLOW THE G.C. FLEXIBLITY.)
- KITCHEN WALLS AND DINING ROOM CLOSET:
1/2" CEMENT WALLBOARD FROM T.O. SLAB TO 12" AFF. AT 12" AFF. USE 1/2" CDX PLYWOOD W/FRP SURFACE FINISH TO 6" ABOVE CEILING HEIGHT U.O.N. IF DOUBLE SIDED SHEAR WALL PLYWD IS SPECIFIED THE PLYWOOD SHALL SHALL BE CONTINUOUS FROM SILL PLATE TO TOP PLATE. SEE 4 & 11 / A6.3.
- RESTROOM WALLS:
5/8" CEMENT WALLBOARD FROM T.O. SLAB OR T.O. CONCRETE CURB TO 48" A.F.F. WITH 5/8" HI-IMPACT BRAND XP WALLBOARD, TYPE X CORE FROM T.O. CEMENT BOARD TO 6" ABOVE CEILING HEIGHT U.O.N.. NO SUBSTITUTIONS ALLOWED. FINISH AS SCHEDULED. SEE 11 (SIM), 12 /A6.3.
- ALL OTHER FRAME WALL CONDITIONS:
1/2" CEMENT WALLBOARD FROM T.O. SLAB OR T.O. CONCRETE CURB TO 48" A.F.F., WITH 1/2" GYPSUM WALLBOARD FROM T.O. CEMENT BOARD TO 6" ABOVE CEILING HEIGHT U.O.N. FINISH AS SCHEDULED.

WALL LEGEND **E**

DIMENSIONS:
A. ALL DIMENSIONS ARE TO FACE OF STUD U.O.N. REFER TO FOUNDATION PLAN FOR FACE OF CONC. DIMENSIONS.
B. DIMENSIONS NOTED AS "CLEAR" OR "HOLD" ARE MIN. REQD. NET CLEARANCE FROM FACE OF WALL / WAINSCOT FINISH. VERIFY FINAL EQUIPMENT SIZES W/ VENDOR PRIOR TO INT. WALL FRAMING.

WINDOWS / DOORS:
A. SEE SHT. A1.1 FOR WINDOW TYPES AND DOOR SCHEDULE.
B. ALL DOOR AND WINDOW OPENING DIMENSIONS ARE TO ROUGH OPENING.

FINISH SUBSTRATES:
A. PROVIDE 1/2" THICK CEMENTITIOUS BD. FROM FLOOR SLAB TO 12" A.F.F. MIN. IN LIEU OF GYP. BD. AT ALL WALLS EXCEPT SHEARWALL SURFACES, U.O.N.
B. ALL JOINTS, GAPS OR SPACES LEADING TO ALL HOLLOW OR INACCESSIBLE SPACES SHALL BE SEALED WITH "NSF INTERNATIONAL" APPROVED SEALANTS.
C. ALL BACK OF HOUSE AND OFFICE WALLS SHALL HAVE 1/2" CDX PLYWOOD SUBSTRATE, U.O.N.

DECOR:
A. SEE A2.0 FOR SEATING PLAN AND DETAILS.
B. SEE A7.0 FOR FLOOR FINISHES.
C. SEE A8.0 - A8.3 FOR WALL FINISHES.
D. SEE A7.1 FOR CEILING FINISHES.

GENERAL:
A. PROVIDE THREE FIRE EXTINGUISHERS - (2) 10 lb. BC and (1) 10 lb. ABC - TO COMPLY WITH LOCAL FIRE CODE. LOCATE PER DIRECTION OF FIRE MARSHALL OR LOCAL AUTHORIZING AGENT.
B. DRAWINGS ARE BASED UPON WOOD FRAMING. UTILIZATION OF METAL STUDS ON NON-BEARING INTERIOR PARTITIONS, BULKHEADS AND SOFFITS IS ACCEPTABLE.
C. ALL ATTACHMENTS MADE THROUGH E.I.F.S. SHALL BE BUSHED TO PREVENT DAMAGE TO THE FINISH. PER 9/A6.2.
D. ALL PENETRATIONS THROUGH E.I.F.S. SHALL BE SEALED USING MFRS. APPROVED METHOD.

FLOOR PLAN NOTES **D**

1. STARTING POINT. ALL SUB-TRADES SHALL USE THIS POINT AS A BEGINNING LAY-OUT (INSIDE FACE OF EXT. WALL STUDS.
2. NO FRP BEHIND W-059 WALK-IN COOLER/FREEZER.
3. PIPE BOLLARD. SEE DETAIL 8/C1.0.
4. HOOD WALL. SEE WALL LEGEND.
5. ELECTRICAL MAIN SWITCH BOARD. REFER TO ELECT. DWGS.
6. CO2 FILL BOX LOCATION.
7. TILE TO METAL THRESHOLD.
8. KEEP CLEAR FOR UTILITIES & SYRUP LINES. SEE DETAIL 14 & 19/A6.4 FOR STUD LAYOUT REQUIREMENTS.
9. MOP SINK. REFER TO SHEET A2.0 & A2.1.
10. S.S. CORNER GUARD / WALL CAP [TM-2]. TYP. ALL CORNERS IN BACK-OF-HOUSE FROM REAR WALL TO THE KITCHEN SIDE OF THE SERVICE COUNTER. SEE DETAIL 19/A6.3.
11. ELECT. PANELS RECESSED IN 2x6 WALL.
12. LIGHTING CONTROL PANEL SURFACE MOUNTED. REFER TO ELECT. DWGS.
13. SYRUP LINE CHASE (ABOVE). SEE DETAIL 19/A6.4.
14. 14"x14" HORIZONTAL OPENING FOR SYRUP TUBES. COORDINATE WALL PENETRATION WITH COUNTER INSTALLER. SEAL CHASE TO COUNTER. SEE 11/A6.4.
15. ROOF LADDER SEE 4/A6.0
16. ADD SECOND 2X4 WALL ON KITCHEN SIDE.
17. REMOVABLE ASTRAGAL FROM INSIDE ONLY.
18. METAL STUDS REQUIRED PER LOCAL CODES.
19. INDICATES WATER HEATER LOCATION.
20. SPLASH GUARD. SEE DETAIL 9/A6.3.
21. LINE OF CANOPY ABOVE
22. LIGHTED WALL. REFER TO DETAIL 5/A8.0
23. LANDSCAPE AREA AT PATIO
24. CASED OPENING. REFER TO DETAIL 7/A6.4.
25. FUR OUT WALL AS INDICATED WITH 2X4 WOOD STUDS AT 16" O.C.
26. KIOSK POWER STUB LOCATION TO RUN WITHIN LEG OF KIOSK
27. KIOSK DATA STUB LOCATION TO RUN WITHIN LEG OF KIOSK

KEY NOTES **B**

ARCVISION INCORPORATED
ARCHITECTURE • ENGINEERING • STORE PLANNING
SAINT LOUIS / DALLAS / LAS VEGAS / ORLANDO
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300
www.arcv.com

RICK J. DICKSON
No. 00920072
STATE OF INDIANA
REGISTERED ARCHITECT
8/10/20

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

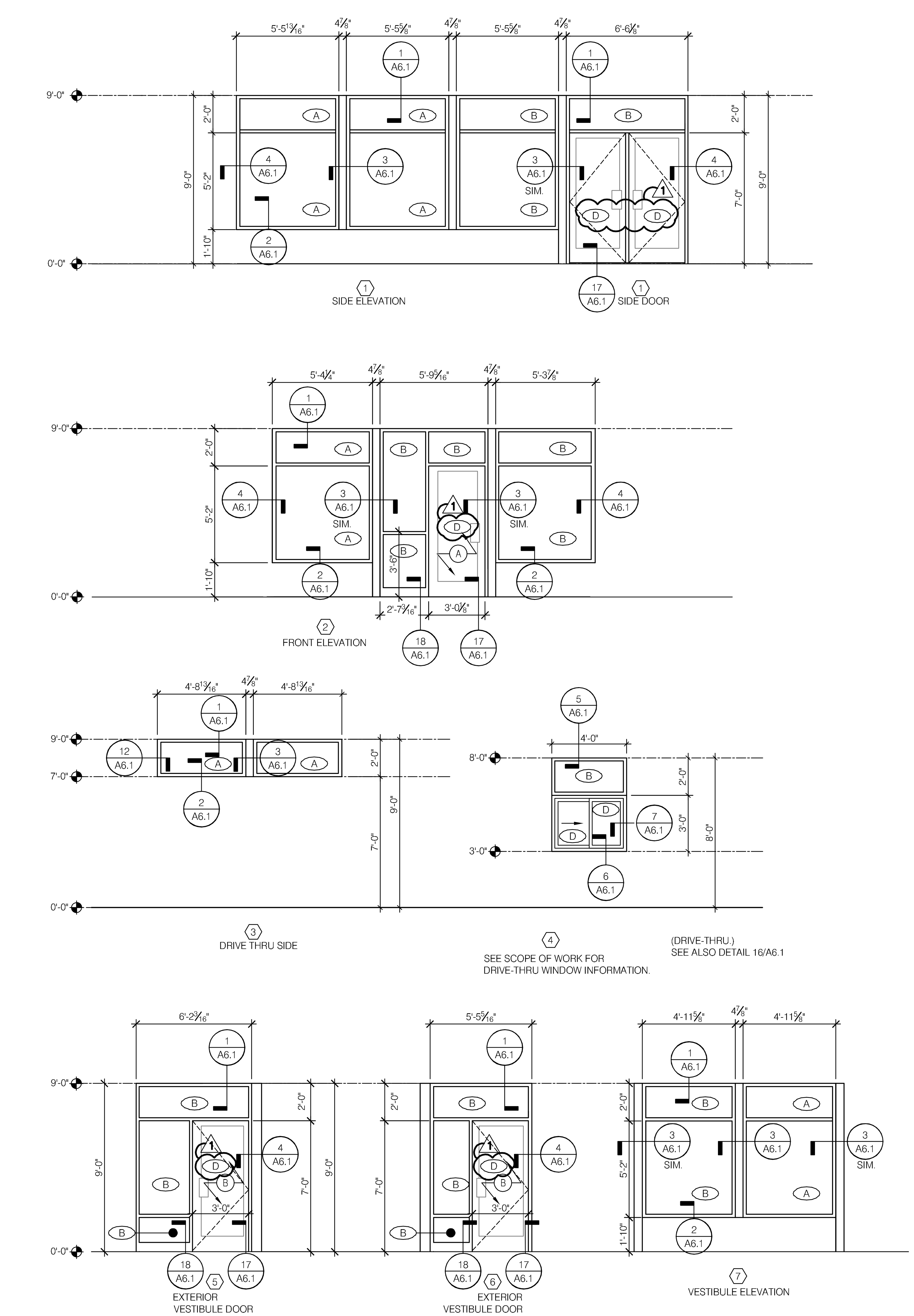
TACO BELL
1 3615 BREMEN HWY
MISHAWAKA, IN 46544

EXPLORER LITE
MEDIUM40

FLOOR PLAN

A1.0

6/29/20



NOTE: ELEVATIONS DRAWN AS VIEWED FROM EXTERIOR OF BUILDING.

WINDOW TYPES 1/4" = 1'-0" **9**

1. DIMENSIONS ON THIS DWG. ARE TO FRAME EDGE. REFER TO SHEETS A1.0 AND A5 SHEETS FOR ROUGH OPENING DIMENSIONS.
2. ENTIRE STOREFRONT SYSTEM SHALL BE CLEAR ANODIZED.
3. NOT USED.
4. SEE SCHEDULE FOR GLASS TYPES.
5. REFER TO FLOOR PLAN, ELEVATIONS AND WALL SECTIONS FOR ROUGH OPENING DIMENSIONS.
6. ALL STOREFRONT MATERIAL AND GLAZING SHALL BE SUPPLIED AND INSTALLED BY G.C. U.O.N.

NATIONAL ACCOUNTS SUPPLIER

INTERIOR DOORS, FRAMES & HARDWARE

LOCKNET
CONSTRUCTION@LOCKNET.COM
800 JOHN C. WATTS DR.
NICHOLASVILLE, KY 40356
855-432-4613 FAX: 877-887-4958

GLASS SCHEDULE

- (A) 1" INSULATED GLASS
- (B) 1" INSULATED TEMPERED GLASS
- (C) 1/4" TEMPERED GLASS
- (D) SAFETY GLASS BY MFR.

NOTE:
SHADING COEFFICIENT SPECIFICATION PER LOCAL CODE REQUIREMENTS.
DAYTIME VISIBILITY INTO DINING ROOM SHALL BE MAINTAINED.

**** ALL STOREFRONT GLAZING SHALL BE LOW "E" SOLAR GLASS ****

GREEN

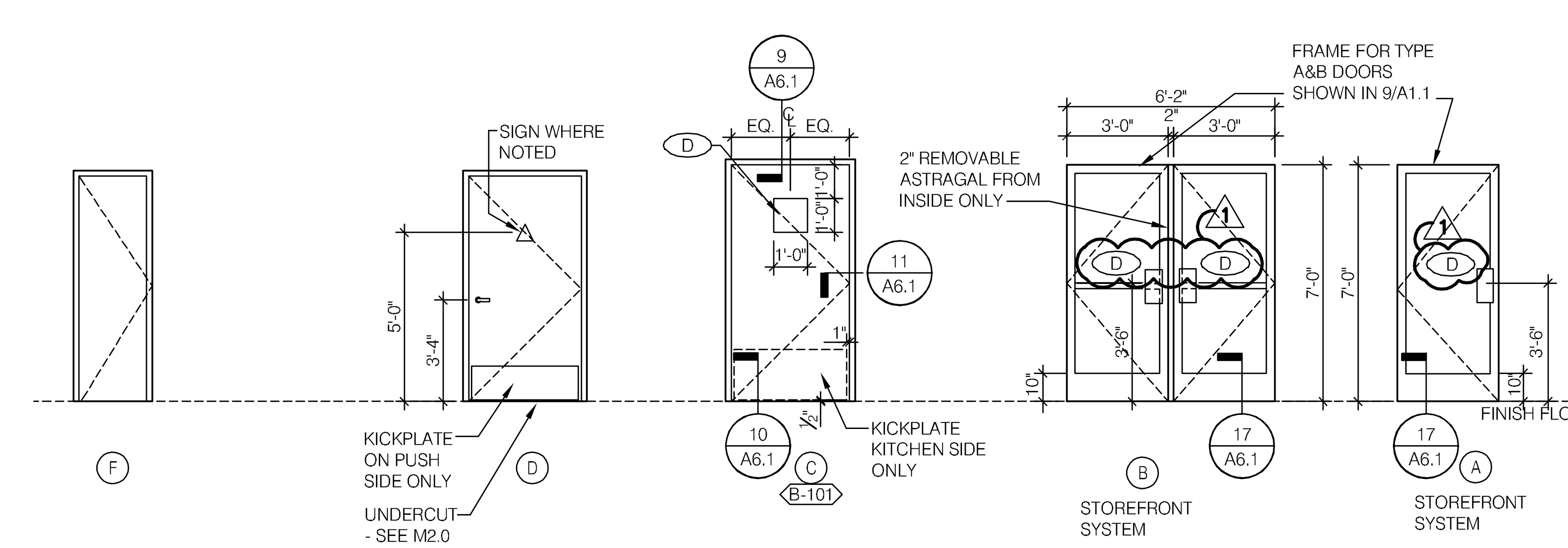
NOTES N.T.S. **4**

1. LAMINATE DOORS 4, 5, 6 & 7 AND PAINT FRAMES 3, 4, 5, 6 & 7. SEE FINISH SCHEDULE, SHEET A7.2.
2. ALL HARDWARE SHALL BE US32D U.O.N.
3. ALL HM FRAMES SHALL BE 16 GA STEEL U.O.N.
4. ALL LOCKS SHALL BE FALCON 6 PIN INTERCHANGEABLE CORE SUPPLIED AND INSTALLED BY THE G.C. ALL EXTERIOR LOCKS SHALL BE PROVIDED WITH CONSTRUCTION CORES. ALL PERMANENT CORES SHALL BE KEYED ALIKE.
5. PERMANENT CORES SHALL BE SHIPPED TO THE RESTAURANT GENERAL MANAGER.
6. MOUNT DOOR CLOSERS ON RESTROOM OR KITCHEN SIDE ONLY.
7. LOCKNET SECURITY DOOR. COMPLETE DOOR, FRAME, AND HARDWARE PACKAGE PROVIDED BY RSCS FACILITIES CONNECTIONS.
8. PROVIDE PUSH/ PULL PLATES.
   IF REQUIRED BY LOCAL CODE, STOREFRONT DOOR PANIC HARDWARE SHALL BE :
   DOR-O-MATIC 2092 RIM PANIC HARDWARE AND EXTERIOR PULLS WITH QUALITY #520 DOOR PULL.
9. MOUNT KICKPLATE ON PUSH SIDE ONLY.
10. MAXIMUM DOOR OPERATING PRESSURE : 5 LBS INTERIOR : 8 LBS EXTERIOR.
11. ADA COMPLIANT ACCESSIBILITY SIGNAGE, INCLUDE BRAILLE AS REQUIRED BY LOCAL JURISDICTION - (1) MEN; (1) WOMEN
12. RESTROOM SIGN REQUIRED.
13. INSTALL WITH APPLIED DOOR STOPS AND WEATHER STRIPS.
14. FRAMES SHALL BE PAINTED.
15. RESTROOM PARTITIONS : BOBRICK 1080 SERIES, WITH STAINLESS STL. 1 1/2" WALL POST, LATCH , KEEPER, COAT HOOK (DTL 20/ADA1.0) & MOUNTING BRACKETS. INSTALL PER MANUFACTURER'S SPECIFICATIONS & DETAILS. DOOR HANDLE AND LATCH SHALL BE MOUNTED AT 36" A.F.F.
16. PROVIDE LATCH AND STRIKE PLATE HARDWARE BY DOOR MFR. TO BE COMPATIBLE WITH LOCK
17. PROVIDE 2" REMOVABLE ASTRAGAL FROM INSIDE ONLY
18. OPTIONAL HARDWARE AT RESTROOM DOOR:
    OCCUPANCY INDICATION DEADBOLT, FALCON D271
    PUSH PLATE, ROCKWOOD 70F - 8" x 16"
    PULL PLATE, TRIMCO 1017-3B - 4" x 16"
19. GC TO TRIM DOOR SWEEP TO FIT DOOR

DOOR SCHEDULE NOTES **1**

DOOR NO.	DOOR SIZE	TYPE: SEE DOOR TYPE ELEVATIONS	DOOR	FRAME	BUTTS 1: ONE PAIR OFFSET PIVOTS PER DOOR MANUFACTURER, TOP & BOTTOM	BUTTS 2: 1 1/2 PR McKINNEY #TA2731, 4-1/2" x 4-1/2"	BUTTS 3: CONT. HINGE INCLUDED IN PACKAGE	BUTTS 4: H.D. TYPE 304 S.S. BOBRICK SPRING LOADED	LOCKS 1: YALE B-PB5405LN	LOCKS 2: YALE B-PB5407LNIC	LOCKS 3: FULL LENGTH LATCH PROTECTOR INCL. IN PKG.	LOCKS 4: PANIC HARDWARE INCLUDED IN PACKAGE	LOCKS 5: FALCON C953-7 OR C987-7 AS REQUIRED	LOCKS 6: FALCON "T" SERIES - PRIVACY SET	LOCKS 7: FALCON 1690 CONCEAL VERT. PANIC HARDWR	CLOSERS 1: DORMA 8616 x 689	CLOSERS 2: CLOSER INCLUDED IN PACKAGE	CLOSERS 3: DORMA 7414 ARP SNB 689	KICKPLATE 1: STAINLESS STEEL 10" x .050 X 2" L.T.D.W.*	KICKPLATE 2: KICKPLATE INCLUDED IN PACKAGE	KICKPLATE 3	THRESHOLD 1: ACCESSIBLE ALUM. THRESHOLD BY DOOR MFR.	THRESHOLD 2: THRESHOLD INCLUDED IN PACKAGE	THRESHOLD 3	THRESHOLD 4	DOOR STOP 1: FLOOR STOP - ROCKWOOD 441 CU	DOOR STOP 2: HINGE STOP - ROCKWOOD 532.NP	DOOR STOP 3: WALL STOP - ASA 0714 COAT HOOK W/ BUMPER	PUSH: PUSH PLATE ROCKWOOD 70F - 8" x 16"	PULL: PULL PLATE TRIMCO 1017-3B - 4" x 16"	MISCELLANEOUS 1: XCLUDER PEST CONTROL DOOR SWEEP #162622	MISCELLANEOUS 2: SWEEP (VISTA 231 STD) NGP 101VA	MISCELLANEOUS 3: UNDERCUT 3/4"	MISCELLANEOUS 4: PROVIDE A SIGN STATING "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS"	MISCELLANEOUS 5: COAT HOOK - BOBRICK	MISCELLANEOUS 6: DOOR SIGN	DETAIL LOCATIONS: HEAD	DETAIL LOCATIONS: JAMB	DETAIL LOCATIONS: SILL	DOOR NOTES (* LESS THAN DOOR WIDTH)
1	3'-0" x 7-0" x 1-3/4"	A	AL	AL	X								X		X	X						X										X		X					17/A6.1	8, 10, 13, 16
2	(2) 3'-0" x 7-0" x 1-3/4"	B	AL	AL	X								X		X	X						X										X		X					17/A6.1	8, 10, 13, 16, 17
3	3'-6" x 7'-0" x 1-3/4"	C	HM	HM			X				X	X					X			X			X								X						9/A6.1	11/A6.1	10/A6.1	6, 7, 10, 14, 19
4	3'-0" x 6'-8" x 1-3/4"	D	WD	HM		X								X				X	X								X						X		X	X	10/A6.4	10/A6.4		6,9,10,11,12,14,18
5	3'-0" x 6'-8" x 1-3/4"	D	WD	HM		X								X				X	X								X						X		X	X	10/A6.4	10/A6.4		6,9,10,11,12,14,18
6	3'-0" x 7-0" x 1-3/4"	A	AL	AL	X								X		X	X						X										X		X					17/A6.1	8, 10, 13, 16
7	2'-0" x 6'-8" x 1-3/4"	F	WD	HM		X			X																		X						X				10/A6.4	10/A6.4		14
8	3'-0" x 7-0" x 1-3/4"	A	AL	AL	X								X		X	X						X										X		X					17/A6.1	8, 10, 13, 16

DOOR SCHEDULE **2**



NOTE: ELEVATIONS DRAWN AS VIEWED FROM EXTERIOR OF BUILDING OR OUTSIDE ROOM.

DOOR TYPES 1/4" = 1'-0" **3**

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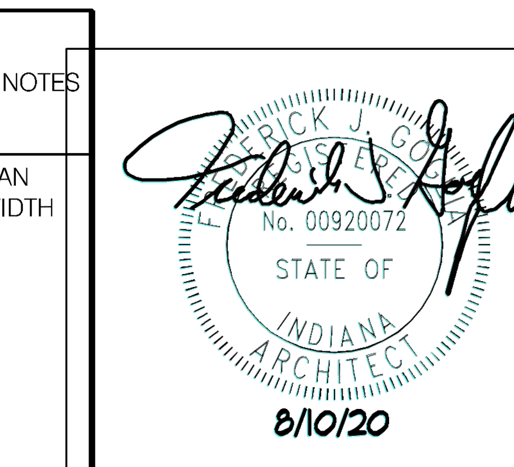


8/10/20

1 OWN/STATE COMMENTS 08.10.20

CONTRACT DATE: 8/26/19
BUILDING TYPE: EXP. LITE MED40
PLAN VERSION: MARCH 2018
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 314007
STORE NUMBER: TBD

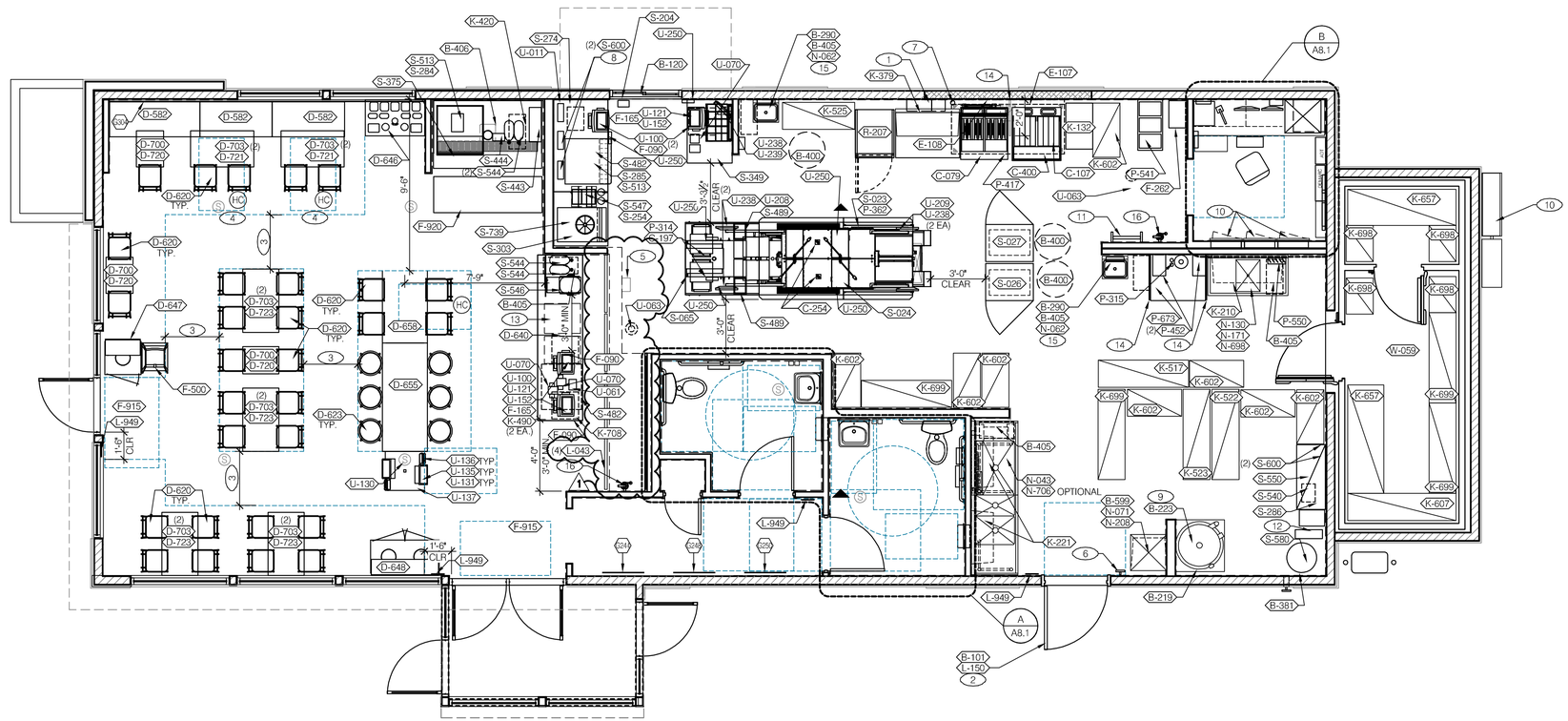
TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

EXPLORER LITE
MEDIUM40

DOOR & WINDOW ELEVATIONS & SCHEDULES

A1.1

6/29/20



NTD:
OPTIONAL: WINDOW SHADE BY ROLL-A-SHADE
MATERIAL - E SCREEN KOOL BLACK CHARCOAL/ CHARCOAL - 5% OPEN
FASCIA - APPROVED IF FRANCHISEE REQUESTS - CLEAR ANODIZED
CONTACT - ANDREW STRICKLIN 951-245-5077 ANDREW.STRICKLIN@ROLLASHADE.COM

NOTE: VESTIBULE OPTION IS SITE SPECIFIC INDEPENDENT OF PATIO OPTION

S

EQUIPMENT/SEATING PLAN 1/4"=1'-0" | A

SYM.	QTY.	ITEM
D-581	2	PINE PLANK SETTEE BOOTHS - 48"
D-582	1	PINE PLANK SETTEE BOOTHS - 60"
D-620	29	RETRO CHAIR - 18"
D-623	6	BARREL BARSTOOL - 29"
D-640	1	SERVICE COUNTER & POS STATION
D-646	1	CONDIMENT COUNTER - RECTANGLE
D-647	1	WASTE ENCLOSURE - SINGLE
D-648	1	WASTE ENCLOSURE - DOUBLE
D-655	1	WB HUB TABLE - 72"
D-658	1	WB HUB TABLE ADA - 48"
D-700	3	22" X 22" X 28.5"H FREE STANDING TABLE BASE
D-703	12	22" X 5.5" X 28.5"H FREE STANDING TABLE BASE
D-720	3	24" X 19" TABLE TOP - PLYWOOD

SYM.	QTY.	
D-721	2	24" X 42" ADA TABLE TOP - PLYWOOD
D-723	4	24" X 42" TABLE TOP - PLYWOOD
D-750	TBD *	WINDOW SILL
D-753	TBD *	WAINSCOTING
D-755	TBD *	CHAIRRAIL
D-920	2	WAUSAU MF 5005 BOLT DOWN END POST
D-921	2	WAUSAU MF 5006 BOLT DOWN CENTER POST
D-931	3	WAUSAU MF 5047 FULL PANEL 5'-6" O.C.

* CONSULTANT TO PROVIDE LINEAR FOOTAGE FOR SILLS, CHAIR RAILS AND SHROUDS.

SEATING PACKAGE - BY SEATING VENDOR U.O.N. (TOTAL SEATS = 42 INT, 12 EXT.) | E

X	QTY.	ITEM	REMARKS
225	1	EMOJIIS, 28"X40"	SEE A8.0 FOR LOCATION
224	1	LINEAR SAUCES, 28"X40"	SEE A8.0 FOR LOCATION
324	1	CONCRETE, 28"X40"	SEE A8.0 FOR LOCATION
500	1	LINEAR SAUCES WALLPAPER	SEE A8.0 FOR LOCATION

ARTWORK SCHEDULE | D

DECOR
1. REFER TO SC SHEETS FOR SCOPE OF WORK RESPONSIBILITIES.
2. (H) - SYMBOL DENOTES A HIGH TABLE OR DINING COUNTER WITH STOOLS.
3. (HC) - SYMBOL DENOTES A HANDICAP ACCESSIBLE TABLE.

GENERAL NOTES | C1

STORAGE TYPE	LINEAR FT.
DRY STORAGE	53
COLD STORAGE	25
FROZEN STORAGE	10

SHELVING QUANTITIES REQUIRED | C2

1. HOOD FIRE SUPPRESSION SYSTEM (ANSUL R-102 OR EQUAL).
2. SEE SHEET A1.1 FOR SECURITY DOOR PACKAGE.
3. MAINTAIN 36" MIN CLEAR ACCESSIBLE AISLE EGRESS PATHS TO EXIT DOORS. 32" AT DOORWAYS AND CASED OPENINGS. (42" AISLE REQUIRED WHEN AISLE SERVES MORE THAN 50 SEATS)
4. 30" x 48" CLEAR FLOOR SPACE FOR HANDICAP ACCESS.
5. ALERT LIGHT BOX FOR 3-COMP POWER SOAK.
6. PULL STATION @ 3'-8" A.F.F.
7. GAS LINE DOWN TO EQUIPMENT.
8. COORDINATE LOCATION OF HORIZ PVC SYRUP CHASE THRU WALL TO COUNTER.
9. 6" HIGH WATER HEATER PLATFORM.
10. SWITCHGEAR / ELECTRIC PANELS.
11. ROOF LADDER. SEE DETAIL 4 & 7/A6.0.
12. 8' LADDER.
13. SAFE.
14. SPLASH GUARD. SEE DETAIL 9/A6.3.
15. AUTOMATIC HAND SOAP AND SANITIZER DISPENSERS PROVIDED BY ECOLAB
16. FIRE EXTINGUISHER (MEETING 2015 IBC STANDARDS) TO BE LOCATED AND MOUNTED PER 2015 IBC.

KEYNOTES | B

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RICK J. GOLIO No. 00920072 STATE OF INDIANA ARCHITECT
8/10/20

1	OWN/STATE COMMENTS 08.10.20
2	
3	
4	
5	

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

1 TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

EQUIPMENT AND SEATING PLAN

A2.0

6/29/20

EQUIPMENT SCHEDULE

CATEGORY	SUBCATEGORY	DESCRIPTION	A&D #	QUANTITY			SUPPLIER	ORDERED BY (DISTRIBUTOR, GC, COMPANY OR FZ)	INSTALLED BY (MANUFACTURER OR GC)	NOTES
				CLOSED KITCHEN	OPEN KITCHEN	IN-LINE AND CANTINA				
BASE EQUIPMENT	COOKING	DUAL FRYER	C-079	1	1	1	FRYMASTER	DISTRIBUTOR	GC	COMES WITH GAS HOSE KIT #2FQG30U
BASE EQUIPMENT	COOKING	Rethermalizer	C-107	1	1	1	PITCO	DISTRIBUTOR	GC	COMES WTH GAS HOSE KIT - #TB-SRTG14-2
BASE EQUIPMENT	COOKING	Toaster, Split Lid	C-197	2	2	2	PROLUXE	DISTRIBUTOR	GC	POWERED BY PRODUCTION LINE - SL1266TBA (STAR OPTIONAL)
BASE EQUIPMENT	COOKING	Cheese Melter	C-254	2	2	2	A. J. ANTUNES	DISTRIBUTOR	GC	POWERED BY PRODUCTION LINE - # CM-100
BASE EQUIPMENT	COOKING	Rethermalizer Timer	C 400	1	1	1	FAST	DISTRIBUTOR	GC	FOR THE RETHERMALIZER - #TBZAP12
BASE EQUIPMENT	PRODUCTION	V-LINE WALL	B-924	0	1	1	BY GC	GC	GC	CUSTOM V-LINE WALL BY GC -
BASE EQUIPMENT	PRODUCTION	V-line L to R	P-001	0	2	2	TBD	DISTRIBUTOR	GC	REFER TO PLAN AND CATALOG FOR (RL) AND (LR) OPTIONS - REFER TO EQUIPMENT PLAN FOR ORIENTATION AND NUMBER OF LINES
BASE EQUIPMENT	PRODUCTION	V-line R TO L	P-002	0	2	2	TBD	DISTRIBUTOR	GC	REFER TO PLAN AND CATALOG FOR (RL) AND (LR) OPTIONS - REFER TO EQUIPMENT PLAN FOR ORIENTATION AND NUMBER OF LINES
BASE EQUIPMENT	PRODUCTION	Flex I-Line,L-R	P-362A	0	0	0	SERTEK	DISTRIBUTOR	GC	DELFIELD ALTERNATE NOTE: Bag holder no longer included with production line - REFER TO EQUIPMENT PLAN FOR ORIENTATION AND NUMBER OF LINES
BASE EQUIPMENT	PRODUCTION	Flex I-Line,R-L	P-362B	0	0	0	SERTEK	DISTRIBUTOR	GC	DELFIELD ALTERNATE NOTE: Bag holder no longer included with production line - REFER TO EQUIPMENT PLAN FOR ORIENTATION AND NUMBER OF LINES
BASE EQUIPMENT	PRODUCTION	Flex Line,Dual	P-362C	1	0	0	SERTEK	DISTRIBUTOR	GC	DELFIELD ALTERNATE NOTE: Bag holder no longer included with production line - REFER TO EQUIPMENT PLAN FOR ORIENTATION AND NUMBER OF LINES
BASE EQUIPMENT	PRODUCTION	V-LINE (EQUIPMENT)	P-XX3	0	0	0	WASSERSTROM	DISTRIBUTOR	GC	REFER TO EQUIPMENT PLAN FOR ORIENTATION AND NUMBER OF LINES
BASE EQUIPMENT	PRODUCTION	V-LINE WALL (WALL)	P-XX4	0	0	0	WASSERSTROM	DISTRIBUTOR	GC	REFER TO EQUIPMENT PLAN FOR ORIENTATION AND NUMBER OF LINES
BASE EQUIPMENT	PRODUCTION	Reach In Freezer	R-207	0	0	1	DELFIELD	DISTRIBUTOR	GC	LH Hinge - #GBF-1P-SH-IK-TB2 - REFER TO EQUIPMENT PLAN FOR LAYOUT
BASE EQUIPMENT	PRODUCTION	Reach In Freezer	R-209	1	1	0	DELFIELD	DISTRIBUTOR	GC	RH Hinge #GBF1P-SH-TB2 - REFER TO EQUIPMENT PLAN FOR LAYOUT
BASE EQUIPMENT	PRODUCTION	Beer Refrigeration Small	R-948	0	0	0	BEV AIR	DISTRIBUTOR	GC	
BASE EQUIPMENT	PRODUCTION	Beer Refrigeration Large	R-949	0	0	0	BEV AIR	DISTRIBUTOR	GC	
BASE EQUIPMENT	PRODUCTION	Warmer,EVO	S-023	1	0	0	CARTER HOFFMAN	DISTRIBUTOR	GC	MOUNT ON PRODUCTION LINE OVER SHELF - LR REFER TO EQUIPMENT PLAN FOR LAYOUT
BASE EQUIPMENT	PRODUCTION	Warmer, EVO	S-024	1	0	0	CARTER HOFFMAN	DISTRIBUTOR	GC	MOUNT ON PRODUCTION LINE OVER SHELF - RL REFER TO EQUIPMENT PLAN FOR LAYOUT
BASE EQUIPMENT	PRODUCTION	Heated Cabinet	S-026	1	2	0	CRES COR	DISTRIBUTOR	GC	W/ 8 WIRE RACKS - R Hinge - #H-137-S-27D1R-TB
BASE EQUIPMENT	PRODUCTION	Heated Cabinet	S-027	1	0	1	CRES COR	DISTRIBUTOR	GC	W/ 8 WIRE RACKS - L Hinge - #H-137-S-27D1L-TB
BASE EQUIPMENT	PRODUCTION	Dessert Tower	S-065	1	0	0	HATCO	DISTRIBUTOR	GC	#GRBW-24D
BASE EQUIPMENT	PRODUCTION	Warmer, EVO - Urban	S-116	0	1	1	CARTER HOFFMAN	DISTRIBUTOR	GC	Left to Right - REFER TO EQUIPMENT PLAN FOR LAYOUT
BASE EQUIPMENT	PRODUCTION	Warmer, EVO - Urban	S-117	0	1	1	CARTER HOFFMAN	DISTRIBUTOR	GC	Right to Left - REFER TO EQUIPMENT PLAN FOR LAYOUT
BASE EQUIPMENT	PRODUCTION	Glycol System with Tap	S-127	0	0	0	PERLICK	DISTRIBUTOR	GC	OPTIONAL LONG DRAW MODEL WITH 3 TAPS
BASE EQUIPMENT	PRODUCTION	Direct Draw with Tap	S-128	0	0	0	BevAir	DISTRIBUTOR	GC	OPTIONAL WITH 3 TAPS
BASE EQUIPMENT	PRODUCTION	Glycol Sytem with Bottoms Up	S-129	0	0	0	Bottoms Up	DISTRIBUTOR	GC	OPTIONAL LONG DRAW MODEL WITH (2)BU2
BASE EQUIPMENT	PRODUCTION	Direct Sytem with Bottoms Up	S-130	0	0	0	Bottoms Up	DISTRIBUTOR	GC	OPTIONAL DIRECT DRAW MODEL WITH (2)BU2
BASE EQUIPMENT	PRODUCTION	Beverage dispenser - self serve	S-284	1	1	1	CORNELIUS COLD FUSION	COMPANY OR FZ	MANUFACTURER	OR SERVEND OPTION (BY PEPSI)
BASE EQUIPMENT	PRODUCTION	Beverage dispenser - drive thru	S-285	1	1	0	SERVEND	COMPANY OR FZ	MANUFACTURER	OR CORNELIUS IDC255 PROGATE 5 (BY PEPSI) - NGF-250QD
BASE EQUIPMENT	PRODUCTION	ICE MAKER (PLACED ON TOP OF DRINK MACHINES)	S-513	2	2	1	MANITOWOC	COMPANY OR FZ	MANUFACTURER	W/ ROOF MOUNTED CONDENSERS HOSHIZAKI KMS-1401MLJ FRANCHISEES CAN USE HOSHISAKI KMS-1230
BASE EQUIPMENT	PRODUCTION	PEPSI BOOSTER TANK	S-540	1	1	1		COMPANY OR FZ	MANUFACTURER	SEE SCOPE OF WORK (PEPSI)
BASE EQUIPMENT	PRODUCTION	TEA DISPENSER	S-544	4	4	2	BUNN	COMPANY OR FZ	MANUFACTURER	3.5 GAL NARROW ICED BEVERAGE DISPENSER
BASE EQUIPMENT	PRODUCTION	ICED TEA BREWER	S-546	1	1	1	TETLEY	COMPANY OR FZ	GC OR MANUFACTURER	
BASE EQUIPMENT	PRODUCTION	COFFEE BREWER	S-547	1	1	1	MY CAFE AP AUTOPOD	DISTRIBUTOR	GC	# 42300.0008
BASE EQUIPMENT	PRODUCTION	3-Barrel Frozen Beverage Dispenser (FBD)	S-737	1	1	1	FBD	DISTRIBUTOR	GC	FRUITISTA (S-739) & REMOTE CONDENSER (S-740) PREFERRED WHEN SPACE ALLOWS - #1273610021
BASE EQUIPMENT	PRODUCTION	3-Barrel FBD Remote Condenser	S-739	1	1	1	FBD	DISTRIBUTOR	GC	MUST ORDER REMOTE CONDENSER
BASE EQUIPMENT	SHELVING	Mop Sink Shelving	B-599	1	1	1	SPG	DISTRIBUTOR	GC	#WST806Y
BASE EQUIPMENT	SHELVING	Coat Hook	F-030	1	1	1	SPG	DISTRIBUTOR	GC	IN OFFICE. SEE SHEET A8.1 - #HOOK246R2Y
BASE EQUIPMENT	SHELVING	LOCKING STEEL STORAGE	F-052	0	0	1	SPG	DISTRIBUTOR	GC	24" X 36" HEAVY DUTY ASSEMBLED
BASE EQUIPMENT	SHELVING	Wall Trax System	K-210	1	1	1	SPG	DISTRIBUTOR	GC	WALL TRACK SHELVING - 1-Comp Sink,#WST255 E,16X50X40,Grey,F/Use On Wall Over 1-Comp Prep Sink: Consists Of: 2 Trax2Esw; 2 Trax50Esw; 1 GSL1424Esw; 1 GSL1448Esw; 1 Gss1448Esw; 1 Grscoopesw; 24 Traxtog Leadtime assumes inventory available; otherws 4-6
BASE EQUIPMENT	SHELVING	Wall Trax System	K-221	1	1	1	SPG	DISTRIBUTOR	GC	3 Comp Sink - #DS-1F
BASE EQUIPMENT	SHELVING	Table,Crispy	K-379	1	1	1	SPG	DISTRIBUTOR	GC	#WST1709EA,30"X42"X74",W/ Undershelves,Freestyle Cantilever Shelving W/ Stainless Work Surface & Above Shelves Assembled Leadtime assumes inventory available; otherws 4-6w
BASE EQUIPMENT	SHELVING	Shelf,Platform	K-420	1	0	0	SPG	DISTRIBUTOR	GC	18X24,#WST34Y F/Carbonator,&/Or Recirc Pump•Consists Of:•1 1824Y 18X24 Wire Shelf•4 Py14 14" Posts•
BASE EQUIPMENT	SHELVING	Shelving Unit,4-Tier	K-484	0	0	0	SPG	DISTRIBUTOR	GC	18X72X74 SU187274
BASE EQUIPMENT	SHELVING	Shelving Unit,Front Counter	K-490	2	0	2	SPG	DISTRIBUTOR	GC	2-Tier,18X24X24 #WST440Y,Gold Bond Leadtime assumes inventory available; otherws 4-6w
BASE EQUIPMENT	SHELVING	SHELVING UNIT	K-497	0	0	8	SPG	DISTRIBUTOR	GC	36" x 18" (4 TIER) - # SU183674Y
BASE EQUIPMENT	SHELVING	SHELVING UNIT	K-498	0	0	6	SPG	DISTRIBUTOR	GC	48" x 18" (4 TIER) - # SU184874Y
BASE EQUIPMENT	SHELVING	SHELVING UNIT	K-512	0	0	3	SPG	DISTRIBUTOR	GC	60" x 18" (4 TIER) -
BASE EQUIPMENT	SHELVING	TORTILLA RACK	K-515	1	0	0	SPG	DISTRIBUTOR	GC	18"x72"x76" (3 TIER) - #WST1465Y
BASE EQUIPMENT	SHELVING	Rack,Prep	K-517	1	0	0	SPG	DISTRIBUTOR	GC	#WST1469Y,18X60,TB,Consists Of: (4)P76Y,76" Post W/Foot;(6)1860Y 18"X60" Wire Shelf Leadtime assumes inventory available; otherws 4-6w
BASE EQUIPMENT	SHELVING	LARGE PACKAGE RACK	K-519	1	0	0	SPG	DISTRIBUTOR	GC	18" x 48" x 76" (4 TIER)
BASE EQUIPMENT	SHELVING	BACKUP #1 RACK	K-520	1	0	0	SPG	DISTRIBUTOR	GC	18" x 72" x 76" (4 TIER)
BASE EQUIPMENT	SHELVING	BACKUP #2 RACK	K-521	1	0	0	SPG	DISTRIBUTOR	GC	18" x 72" x 76" (4 TIER)

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CONTRACT DATE: 8/26/19
BUILDING TYPE: EXP. LITE MED40
PLAN VERSION: MARCH 2018
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 314007
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TACO BELL
1 3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

EQUIPMENT SCHEDULE

A2.1

6/29/20

CATEGORY	SUBCATEGORY	DESCRIPTION	A&D #	QUANTITY			SUPPLIER	ORDERED BY (DISTRIBUTOR, GC, COMPANY OR FZ)	INSTALLED BY (MANUFACTURER OR GC)	NOTES
				CLOSED KITCHEN	OPEN KITCHEN	IN-LINE AND CANTINA				
BASE EQUIPMENT	SHELVING	Rack,Small Packaging	K-522	1	0	0	SPG	DISTRIBUTOR	GC	(Consolidated Wraps) 5 Tier
BASE EQUIPMENT	SHELVING	Rack,Cup & Lid,3 Tier	K-523	1	0	0	SPG	DISTRIBUTOR	GC	18X60,#WST1580Y Consisting Of:(4) P76Y 76" Post W/Foot,(3) 1860Y 18X60 Wire Shelf,TB Leadtime assumes inventory available; otherws 4-6w
BASE EQUIPMENT	SHELVING	SHELVING	K-524	2	0	0	SPG	DISTRIBUTOR	GC	18" x 36" x 76"" (5 TIER)
BASE EQUIPMENT	SHELVING	Shelving Unit,5-Tier	K-525	2	1	0	SPG	DISTRIBUTOR	GC	18X48X76,TB,#WST1613Y Gold Bond,Includes:(4)P76Y 76"Post W/Foot (5)1848Y 18X48 Wire Shelf Leadtime assumes inventory available; otherws 4-6w
BASE EQUIPMENT	SHELVING	SHELVING	K-526	2	0	0	SPG	DISTRIBUTOR	GC	24" x 60" x 76"" (4 TIER)
BASE EQUIPMENT	SHELVING	SHELVING	K-527	3	0	0	SPG	DISTRIBUTOR	GC	18" x 30" x 76"" (5 TIER)
BASE EQUIPMENT	SHELVING	SHELVING	K-550	0	0	0	SPG	DISTRIBUTOR	GC	24X24 5-TIER RACK SHELVING
BASE EQUIPMENT	SHELVING	SHELVING	K-554	0	3	0	SPG	DISTRIBUTOR	GC	48X24 5-TIER RACK SHELVING
BASE EQUIPMENT	SHELVING	Shelving Unit,Dry Storage,5-Tier	K-602	0	2	0	SPG	DISTRIBUTOR	GC	18X36X86 #WST238Y,Gold Bond,F/Dry Goods-Not F/Walk-In Includes:(5)1836Y,(4)P86Y,(5)PFBM36 Leadtime assumes inventory available; otherws 4-6w
BASE EQUIPMENT	SHELVING	SHELVING UNIT	K-604	1	0	0	SPG	DISTRIBUTOR	GC	WALK-IN COOLER - 18" x 48" x 86"H (5 TIER)
BASE EQUIPMENT	SHELVING	Shelving Unit,5-Tier	K-657	2	3	0	SPG	DISTRIBUTOR	GC	WALK-IN COOLER 24X72X86,#SU247285Y,Gold Bond Leadtime assumes inventory available; otherws 4-6w
BASE EQUIPMENT	SHELVING	Shelving Unit,5-Tier	K-698	0	1	0	SPG	DISTRIBUTOR	GC	WALK-IN COOLER Tier,18X24X74,#SU182475Y,Gold Bond Leadtime assumes inventory available; otherws 4-6w
BASE EQUIPMENT	SHELVING	Shelving Unit,5-Tier	K-699	7	7	1	SPG	DISTRIBUTOR	GC	WALK-IN COOLER Tier,18X60X74,#SU186075Y,Gold Bond Leadtime assumes inventory available; otherws 4-6w
BASE EQUIPMENT	SHELVING	Dunnage,Shelf	K-708	1	0	0	SPG	DISTRIBUTOR	GC	UNDER FRONT COUNTER #WST1702Y,F/Holding Cup Dispensing Unit,Front Counter Dunnage,24X30 Leadtime assumes inventory available; otherws 4-6w
BASE EQUIPMENT	SHELVING	Dunnage,Shelf	K-750	0	0	1	SPG	DISTRIBUTOR	GC	OPTIONAL
BASE EQUIPMENT	SHELVING	STORAGE BINS	P-541	1	0	0	B&B SYSTEMS	DISTRIBUTOR	GC	Includes Casters,3 Tanks W/Covers,(Tank Capacity- Sugar=75#,Flour=55# Gallons=12),B&Bsystems#03070100,WSM#111051
BASE EQUIPMENT	SHELVING	Work Table	P-673	1	1	0	SPG	DISTRIBUTOR	GC	FOR HOT WATER SYSTEM W/ BRACKET, FRONT MOUNT: BRACKET, SIDE MOUNT; RETAINTING BRACKET, SIDE MOUNT - #WST908YA
BASE EQUIPMENT	SHELVING	Workstation,Drive Thru	S-274	1	1	0	SPG	DISTRIBUTOR	GC	WST1242YA - #WST1242YA 36"X61",Includes 6 Ea P34Y 34"Post Gold Bond,1 Ea 3661Sctcor2 36"X61" Stainless Counterotp 2 Cutouts Rear,1 Ea #CDU66OR2FLY 30"X60" Channel Dunnage Frame Special Gold,1 Ea #CDU530Y 24"X30" Channel Dunnage Frame Gold Bond
BASE EQUIPMENT	SHELVING	PICK UP DRIVE THRU COUNTER	S 277	1	1	0	SPG	DISTRIBUTOR	GC	(30" x 42")
BASE EQUIPMENT	SHELVING	Work Table	S-349	0	1	0	SPG	DISTRIBUTOR	GC	PICK-UP DRIVE-THRU COUNTER (30" x 42")
BASE EQUIPMENT	SHELVING	DRIVE-THRU DRINK TABLE	S-353	1	0	0	SPG	DISTRIBUTOR	GC	60"(W) X 36"(D)
BASE EQUIPMENT	SHELVING	SELF SERVE DRINK COUNTER	S-397	1	0	0	CARTER HOFFMAN	DISTRIBUTOR	GC	(90" LONG) - #CH3TD590N155
BASE EQUIPMENT	SHELVING	FRUTISTA TABLE	S-458	0	1	0	SPG	DISTRIBUTOR	GC	24"(W) X 36"(D)
BASE EQUIPMENT	SHELVING	BAG-IN-BOX SYRUP RACK	S-550	1	1	1	3 WIRE	COMPANY OR FZ	MANUFACTURER	SEE SCOPE OF WORK (PEPSI) - 2522069
BASE EQUIPMENT	SHELVING	Work Table	S-827	0	1	0	SPG	DISTRIBUTOR	G	24X30 #WST1344Y
BASE EQUIPMENT	WORK STATION	File Cabinet	F-014	1	1	1	HON	DISTRIBUTOR	GC	IN OFFICE. SEE SHEET A8.1
BASE EQUIPMENT	WORK STATION	OFFICE STOOL	F-021	1	1	1	HON	DISTRIBUTOR	GC	IN OFFICE. SEE SHEET A8.1
BASE EQUIPMENT	WORK STATION	Black Frame	F-022	1	1	1	CREATIVE PALETTE	DISTRIBUTOR	GC	IN OFFICE. SEE SHEET A8.1 - TB30
BASE EQUIPMENT	WORK STATION	Employee Chair	F-025	1	1	1	HON	DISTRIBUTOR	GC	IN REAR CORNER NEAR THE DRIVE THRU SEE SHEET A2.0
BASE EQUIPMENT	WORK STATION	Desk Lamp	F-026	1	1	1	Euri LED Lamp	DISTRIBUTOR	GC	
BASE EQUIPMENT	WORK STATION	EMPLOYEE WORK STATION	F-036	1	1	1	SPG	DISTRIBUTOR	GC	#WST754E
BASE EQUIPMENT	WORK STATION	Currency Counter	F-102	1	1	1	TELLERMATE	DISTRIBUTOR	GC	#TIX2000
BASE EQUIPMENT	WORK STATION	Wall Clock	F-211	1	1	1	B&B SYSTEMS	DISTRIBUTOR	GC	Bbsys #02100100,12"Lx8"W,LCD Includes (2)AA Batteries,WSM#6031166
BASE EQUIPMENT	WORK STATION	Lockers	F-262	1	1	1	LYON	DISTRIBUTOR	GC	#5362, W/6-Openings 12"Wx18"Dx12"H,Putty,Unassembled
BASE EQUIPMENT	WORK STATION	Cart,Closing Made Simple	K-132	1	1	1	SPG	DISTRIBUTOR	GC	#WST1434Y,Includes 4 - 28" Posts No Feet,P28Ny 4 - 5" Swivel Casters,Cm5P 3 - 18" X 24" Wire Shelf - Gold Bond 1 - 18" X 24" Stainless Countertop Leadtime assumes inventory available; otherws 4-6w
BASE EQUIPMENT	MUSIC	Speakers	F-131	1	1	1	MOOD MEDIA LOCAL LEASE	COMPANY OR FZ	MANUFACTURER	MOOD (LOCAL LEASE)
BASE EQUIPMENT	PLUMBING	WATER SOFTENER UNIT HOLDER	K-750	1	1	1	SPG	DISTRIBUTOR	GC	OPTIONAL INSTALL - 14"X30"X9"
BASE EQUIPMENT	PLUMBING	3-COMP POWER SOAK	N-042	0	0	0	POWER SOAK GEN IV	DISTRIBUTOR	GC	102"L X 31"D (L TO R) W/ PRE-RINSE,CLICK&CLEAN SYSTEM & (2) T & SB-2466 FAUCETS OPTIONAL - N-706, N-075, N-076, N-077, N-078
BASE EQUIPMENT	PLUMBING	3-COMP POWER SOAK	N-043	0	1	1	POWER SOAK GEN IV	DISTRIBUTOR	GC	208/60/1,#PS6750,102"Lx31"D Right To Left Flow,W/PS-225-1 Control (Reverse Compatible),Awi/Ftd System,Wave Guide,W/Pre- Plumbed Water Tempering Valves Includes T&S #B-2475-PS-OH PRE-RINSE Faucet W/Add-On Faucet Located Over The Rinse Sink & T&
BASE EQUIPMENT	PLUMBING	HAND SINK (KITCHEN)	N-056	0	0	0	AERO	DISTRIBUTOR	GC	Optional Sink ,#HSK-A,15"Wx17"L,Bowl-10"X14",Front To Back X 5"D,Includes Faucet W/.5 Gpm Aerator Basket, Knee Valves,Gooseneck Spout & Basket
BASE EQUIPMENT	PLUMBING	HAND SINK (KITCHEN)	N-061	2	2	2	AERO	DISTRIBUTOR	GC	*dual knee option - #HSK-A
BASE EQUIPMENT	PLUMBING	HAND SINK (KITCHEN)	N-062	0	2	2	AERO	DISTRIBUTOR	GC	Sink,Hand,#HSK-SKV,Wall Mount,Bowl 10X14X5 Ss Construction,8"Rear Splash,Single Spout W/0.5 Gpm Aerator,Single Knee Valve,Basket Drain,Wall Mounting Brackets,NSF
BASE EQUIPMENT	PLUMBING	Mop Faucet	N-071	1	1	1	T&S	DISTRIBUTOR	GC	Faucet,Mop Sink,#B2465,Rough Chrome Finish,Includes: B665Bstr Faucet;Bwh4 4" Wrist Blades;CEramic Valves,4' Hose-
BASE EQUIPMENT	PLUMBING	Faucet	N-130	1	1	1	T&S	DISTRIBUTOR	GC	FOR N-698 #B2463,Includes: B231 12" Nozzle Bwh4 Wrist Blade Handles,1/4" CEramic Valves
BASE EQUIPMENT	PLUMBING	Wall mounted lavatory	N-141	2	2	2	AMERICAN STANDARDS BRAND	DISTRIBUTOR	DISTRIBUTOR GC	WHITE VITREOUS CHINA WALL MOUNTED LAVATORY WITH ACCESSORIES. N-141 IS METERED FAUCET.Faucet,Lavatory,Centerset Mixing,#B-0890-WS
BASE EQUIPMENT	PLUMBING	Faucet	N-146	2	2	2	SLOAN	DISTRIBUTOR	GC	Note: Required for Corporate stores, FZ OPTION T & S BRASS B-2460 - #SF-2350,Battery Operated,Sensor Activated,0.5 Gpm,Electronic,4 Inch Centerset F/Tempered Or Hot/Cold Water Operation,Chrome Plated Brass,Splash-Proof Circuit Control Module Adjustable Infared Sensor Range,36"L Sensor Cable,24"L Flex Hose,Filt
BASE EQUIPMENT	PLUMBING	Lever,Waste Drain	N-171	1	1	1	T&S FAUCET	DISTRIBUTOR	GC	2" TWIST TYPE, FOR N-698 - S-20
BASE EQUIPMENT	PLUMBING	Mop Sink	N-202	1	0	1	AERO	DISTRIBUTOR	GC	#3MP-2121-6/2-PANEL,24"Wx24"Lx10"D O.D., Bowl Size:21"Wx21"Lx6"D,16 Ga 304 S/S,Floor Mount, Furnished W/(2)Wall Panels No Drain Or Other Hardware,F/Drain Use 1 Each E40380210 Free Flow Drain
BASE EQUIPMENT	PLUMBING	Mop Sink	N-208	0	1	0	AERO	DISTRIBUTOR	GC	#3MP-2121-6/1-PANEL,24"Wx24"Lx10"D O.D., Bowl Size:21"Wx21"Lx6"D,16 Ga 304 S/S,Floor Mount, Furnished W/(1) 24"X36" Wall Panel,No Drain Or Other Hardware,F/Drain Use 1 Each E40380210 Free Flow Drain
BASE EQUIPMENT	PLUMBING	Comp Sink	N-698	1	1	1	AERO	DISTRIBUTOR	GC	#3MP-2121-6/1-PANEL,24"Wx24"Lx10"D O.D., Bowl Size:21"Wx21"Lx6"D,16 Ga 304 S/S,Floor Mount, Furnished W/(1) 24"X36" Wall Panel,No Drain Or Other
BASE EQUIPMENT	PLUMBING	Regulator,Water Pressure	P-314	1	1	1	AJ ANTUNES & CO	DISTRIBUTOR	GC	For Cheese Melter - #7000314
BASE EQUIPMENT	PLUMBING	Reverse Osmosis Water Filter	P-315	1	1	1	3MPURIFICATION INC.	DISTRIBUTOR	GC	REQUIRES FLOOR SINK - # 56123-06,FSTM-075
BASE EQUIPMENT	PLUMBING	Hot Water Machine	P-452	2	2	2	BUNN-MACHINE	DISTRIBUTOR	GC	
BASE EQUIPMENT	PLUMBING	WATER FILTER SYSTEM	S-286	1	1	1	SHURFLO	COMPANY OR FZ	MANUFACTURER	FRANCHISEES CAN USE SELECTO #TB5/620-5
BASE EQUIPMENT	PLUMBING	Water Filter	S-547	1	1	1	SHURFLO	COMPANY OR FZ	MANUFACTURER	ORDER DIRECT FROM PEPSI
BASE EQUIPMENT	PLUMBING	CARBONATOR	S-570	1	1	1	CORNELIUS	COMPANY OR FZ	MANUFACTURER	SHELF MOUNTED BELOW EACH DRINK (BY PEPSI)

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RICK J. DICKSON
No. 00920072
STATE OF INDIANA
ARCHITECT
8/10/20

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CONTRACT DATE: 8/26/19
BUILDING TYPE: EXP. LITE MED40
PLAN VERSION: MARCH 2018
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 314007
STORE NUMBER: TBD

1 TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

EQUIPMENT SCHEDULE

A2.2

6/29/20

CATEGORY	SUBCATEGORY	DESCRIPTION	A&D #	QUANTITY			SUPPLIER	ORDERED BY (DISTRIBUTOR, GC, COMPANY OR FZ)	INSTALLED BY (MANUFACTURER OR GC)	NOTES
				CLOSED KITCHEN	OPEN KITCHEN	IN-LINE AND CANTINA				
BASE EQUIPMENT	PLUMBING	Bulk CO2	S-580	1	1	1	MVE	DISTRIBUTOR	MANUFACTURER	
BASE EQUIPMENT	PLUMBING	CO2 (BULK) TANK	S-580	1	1	1	MVE	DISTRIBUTOR	MANUFACTURER	WITHOUT IMPURITY RING
BASE EQUIPMENT	PLUMBING	BUNDLED SYRUP LINES	S-600	2	2	1	PEPSI	COMPANY OR FZ	MANUFACTURER	SEE SCOPE OF WORK (PEPSI)
CONTRACTOR'S PACKAGE	WATER HEATER	Water Heater Rack	B-219	1	1	1	NEW AGE INDUSTRIAL CORP.	DISTRIBUTOR	GC	#98147
CONTRACTOR'S PACKAGE	WATER HEATER	GAS WATER HEATER	B-223	1	1	1	AO SMITH	DISTRIBUTOR	GC	Gas Fired,#BTH120,NG,60 Gal,High Efficiency,AO Smith,Sealed Combustion,120M BTU
CONTRACTOR'S PACKAGE	BUILDING MISCELLANEOUS	72"W X 41"H DRIVE-THRU WINDOW	B-925	0	1	0	QUICKSERV	DISTRIBUTOR	GC	D/T Window, Quikserv #Bp-7241E-B, Fully Automatic
CONTRACTOR'S PACKAGE	BUILDING MISCELLANEOUS	Roof Ladder	B-049	1	1	0	PRECISION	DISTRIBUTOR	GC	#FL-184,16'0"Oad 15'4"Ladder,Interior Use For Roof Hatch Access W/Floor Brackets
CONTRACTOR'S PACKAGE	BUILDING MISCELLANEOUS	Roof Hatch	B-050	1	1	0	PRECISION			#PLHG,2'6"X3' Clear Opening,Galv Steel,Hold Open Arms,Pressure Intensifier,Heavy Duty Hinge,All Mounting Hardware Furnished By Others
CONTRACTOR'S PACKAGE	BUILDING MISCELLANEOUS	Door and Frame	B-101	1	1	1	LOCKNET	DISTRIBUTOR	GC	New,Non-Delivery,4 Week Leadtime W/Frame,W/Sargent Panic Bar,W/Window Consists Of 1 Steel Frame: 14 Ga,Galv,Welded,Pre Finished Tan 1 Steel Door:16 Ga,Galv,Foam Insulated,Fully Reinforced F/Hdwe,Full Length Steel Security Astragal & Pre-Finis
CONTRACTOR'S PACKAGE	BUILDING MISCELLANEOUS	DT Window	B-120	1	0	0	QUICKSERV	DISTRIBUTOR	GC	G.C. TO PROVIDE TRANSOM - CLEAR ANODIZED B-130 LEFT-RIGHT Single Slider,Quikserv#SC4030CR Self Closing,Right To Left,Slide,Manual Operation 20"X30"Opening,48"Wx4 1/2"Dx36"H,W/Auto Locking Handle,Opening Direction Is From Inside Restaurant,Closing Mechanical Upgrade W/Hold Open Device,Clear Finish
CONTRACTOR'S PACKAGE	BUILDING MISCELLANEOUS	FLY FAN	B-160	1	1	1		DISTRIBUTOR	GC	
CONTRACTOR'S PACKAGE	BUILDING MISCELLANEOUS	Carbon Monoxide Meter	B-381	1	1	1	AMPROBE	DISTRIBUTOR	GC	# CO2-200380,2000PPM Wall Mount,Amprobe,Lcd Display,Audible Alarm Output Relay,Includes 100 To 240Vac Power Adapter And Instructions
CONTRACTOR'S PACKAGE	BUILDING MISCELLANEOUS	Backsplash	E-108	1	1	1	STRATOVENT	DISTRIBUTOR	GC	TB,#BACKSPLASH106X111FLAT,106"H X 111"H,430S/S,Flat Wall Panels W/Divider Strips & Trim,Covering Rear Wall & 18" Beyond Left & Right Sides
CONTRACTOR'S PACKAGE	BUILDING MISCELLANEOUS	CO2 CARBON DIOXIDE SENSOR/WARNING	S-381	1	1	1	AMPROBE	DISTRIBUTOR	GC	CO2-200
CONTRACTOR'S PACKAGE	BUILDING MISCELLANEOUS	FLY FAN	S-XX2	1	1	1	TBD	DISTRIBUTOR	GC	
CONTRACTOR'S PACKAGE	ELECTRICAL	Combined Controls,Tb; Combined Control Box	CCBOX	1	1	1	AEC	GC	GC	
CONTRACTOR'S PACKAGE	HVAC	Hood Exhaust	E-107	1	1	1	STRATOVENT	DISTRIBUTOR	GC	PRE-PIPED FOR ANSUL SUPPRESSION - #TBG3650SVBD6FT3IN,6'-3"L X 36"W,430 S/S,UL Listed Lights With (3) Cfl Bulbs Included,S/S Grease Baffle Filters,End Panels Shipped Loose,Insulated Rear Stand-Off Integral To Hood,25"H Wrappers To Enclose Top Of Hood Sized
CONTRACTOR'S PACKAGE	HVAC	Roof Curb	EF-1	1	1	1		DISTRIBUTOR	GC	#CURB195X26TBG,Stratovent 19,5"Lx19,5"Wx26"D,Vented,Factory Attached Hinges F/Grease Hood Applications
CONTRACTOR'S PACKAGE	HVAC	Exhause fan	EF-1	1	1	1		DISTRIBUTOR	GC	Upblast,TB,#SV50HP1050TBG Stratovent,1/2Hp,120V,1PH,Electric,30"Lx30"Wx30"H 1050 Cfm,Prewired Disconnect Switch & Prewired Speed Controller,Grease Cup W/Drain Tube,F/Grease Hood Applications
CONTRACTOR'S PACKAGE	HVAC	Roof Curb	EF-2	1	1	1		DISTRIBUTOR	GC	#CURB195X14TBRR,Stratovent TB,20"Lx20"Wx20"D,Used With Svdr30TBrr570 Or Svdr30TBrr780 Fans
CONTRACTOR'S PACKAGE	HVAC	Fan,Downblast Exhaust	EF-2	1	1	1		DISTRIBUTOR	GC	#SVDR30TBRR570,570 Cfm,0.25 Hp,120V/1PH,0.375"Sp,W/Prewired Disconnect&Speed Controller,Backdraft Damper Birdscreen,Restroom Or Steam/Heat Removal Only
CONTRACTOR'S PACKAGE	HVAC	HVAC - RTU 1	RTU-1	1	1	1	LENNOX / TRANE	DISTRIBUTOR	GC	DINING RTU / YORK OPTIONAL FOR EXPLORER AND EXPLORER LITE TEMPLATES
CONTRACTOR'S PACKAGE	HVAC	HVAC - RTU 2	RTU-2	1	1	1	LENNOX / TRANE	DISTRIBUTOR	GC	KITCHEN RTU / YORK OPTIONAL FOR EXPLORER AND EXPLORER LITE TEMPLATES
CONTRACTOR'S PACKAGE	HVAC	Condenser Remote	S-740	1	1	1		DISTRIBUTOR	GC	#12-3003-0006,230V/60Hz,W/ Metal Flex,F/Use W/Fbd Remote 773 Unit E56190037 & Fbd Remote 774 Unit E56190035, INCLUDES LINE SETS - 2-50 Copper Lines, 2-Flex Line Sets, Bag of Miscellaneous Parts, and Strut Channel
CONTRACTOR'S PACKAGE	RESTROOM ACCESSORY	SOAP DISPENSER (WALL MOUNT)	B-241	4	4	4	KAY	DISTRIBUTOR	GC	PROVIDED BY ECOLAB 3741
CONTRACTOR'S PACKAGE	RESTROOM ACCESSORY	SANITIZER DISPENSER (WALL MOUNT)	B-251	4	4	4	KAY	DISTRIBUTOR	GC	PROVIDED BY ECOLAB 3741
CONTRACTOR'S PACKAGE	RESTROOM ACCESSORY	Receptacle,Paper Towel Dispenser/Waste	B-253	2	2	2	BOBRICK	DISTRIBUTOR	GC	RECESSED - Bobrick#B3944,Convertible,Recessed,W/4-1/8" Extension F/Wall,12Gal
CONTRACTOR'S PACKAGE	RESTROOM ACCESSORY	Wall Mirror	B-265	2	2	2	BOBRICK	DISTRIBUTOR	GC	SURFACE MTD 18"X36",S/S Finish,Bobrick,#B1651836
CONTRACTOR'S PACKAGE	RESTROOM ACCESSORY	Dispenser,Toilet Paper,Single Jumbo Roll	B-275	2	2	2	BOBRICK	DISTRIBUTOR	GC	SURFACE MTD - S/S, Bobrick#B2890
CONTRACTOR'S PACKAGE	RESTROOM ACCESSORY	Paper Towel Dispenser	B-290	2	2	2	BOBRICK	DISTRIBUTOR	GC	SURFACE MTD. #B-262
CONTRACTOR'S PACKAGE	RESTROOM ACCESSORY	Grab Bar	B-300	2	2	2	BOBRICK	DISTRIBUTOR	GC	SURFACE MTD. 1 1/2"X36",S/S Finish,Bobrick,#B6806X36
CONTRACTOR'S PACKAGE	RESTROOM ACCESSORY	RESTROOM PARTITION PACKAGE	B-301	0	0	0	BOBRICK	GC	GC	OVERHEAD BRACED, COLOR: SC04 "FOREST GREEN" #1090
CONTRACTOR'S PACKAGE	RESTROOM ACCESSORY	Grab Bar	B-305	2	2	2	BOBRICK	DISTRIBUTOR	GC	SURFACE MTD. 1 1/2"X42",S/S Finish,Bobrick,#B6806X42
CONTRACTOR'S PACKAGE	RESTROOM ACCESSORY	Grab Bar	B-310	2	2	2	BOBRICK	DISTRIBUTOR	GC	SURFACE MTD. - 1.5"X18",S/S Finish,Bobrick#B6806X18
CONTRACTOR'S PACKAGE	RESTROOM ACCESSORY	Receptacle,F/Sanitary Napkin	B-410	1	1	1	RUBBERMAID	DISTRIBUTOR	GC	INCLUDES ACCESSORY KIT & MOUNTING HARDWARE W/Rigid Liner,12 1/ 2Lx5 1/4Wx10 3/4"H,White,Rubbermaid 6140,WSM 656000 - #FG614000
CONTRACTOR'S PACKAGE	RESTROOM ACCESSORY	BABY CHANGING TABLE	F-452	1	1	1	FACILITIES CONNECTION	DISTRIBUTOR	GC	OPTIONAL - SFSTP4399
CONTRACTOR'S PACKAGE	Walk-In	Walk-In	W-058	0	0	0	KOLPAK	DISTRIBUTOR	GC	FRANCHISE OPTION: KOLPAK
CONTRACTOR'S PACKAGE	Walk-In	Walk-In	W-059	1	1	0	ICS	DISTRIBUTOR	GC	Combo,TB,#105181,Budgetary 19'4"X7'X9'2" OAD,F/Medium Building Prototype, Includes LEDs
CONTRACTOR'S PACKAGE	Walk-In	Walk-In	W-059A	0	0	1	ICS	DISTRIBUTOR	GC	SMALL WALK-IN
IT / POS	POS	CREDIT CARD SATELLITE ROUTER JUNCTION	F-050	1	1	1	POS PROVIDED	TB/IT	SSP	
IT / POS	POS	Front Load Safe	F-165	3	3	3	PERMA VAULT	DISTRIBUTOR	GC	#PRO-10TM
IT / POS	POS	SAFE WITH TOUCH SCREEN CONTROLS	F-174	1	1	1	BRINKS	COMPANY	MANUFACTURER	
IT / POS	POS	RECEIPT PRINTER	U-070	2	2	2		TB/IT	SSP	
IT / POS	POS	RECIEPT PRINTER	U-070	3	3	3	EPSON	TB/IT	SSP	2 FOR F/C AND 1 D/T
IT / POS	POS	POS/ORDER ENTRY TERMINAL	U-100	4	4	2		TB/IT	SSP	2 FOR F/C AND 2 D/T
IT / POS	POS	Hanging Kit Cash Drawer	U-120	4	4	2		TB/IT	SSP	#K1056,Used When Mounting M2352 & M2321 Cash Drawer Under Counter
IT / POS	POS	CASH DRAWER BRACKETS	U-121	4	4	4	SPG	TB/IT	SSP	#5U186075Y
IT / POS	POS	CASH DRAWER	U-135	4	4	4	PAR			PROVIDE DEDICATED CIRCUIT AND (2) TWO CATS CABLES PER TABLET
IT / POS	POS	CASH DRAWER	U-152	3	3	3	PAR	TB/IT	SSP	
IT / POS	IT	OFFICE COMPUTER	F-040	1	1	1		TB/IT	SSP	IN OFFICE AREA. SEE SHEET A8.2
IT / POS	IT	MONITOR - OFFICE	F-060	1	1	1		TB/IT	SSP	IN OFFICE AREA. SEE SHEET A8.2
IT / POS	IT	OFFICE PRINTER/COPIER/FAX/SCANNER	F-080	1	1	1		TB/IT	SSP	
IT / POS	IT	UPS (UN-INTERUPTABLE POWER SUPPLY)	F-090	5	5	5		TB/IT	SSP	

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CONTRACT DATE: 8/26/19
BUILDING TYPE: EXP. LITE MED40
PLAN VERSION: MARCH 2018
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 314007
STORE NUMBER: TBD

TACO BELL
1 3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

EQUIPMENT SCHEDULE

A2.3

6/29/20

CATEGORY	SUBCATEGORY	DESCRIPTION	A&D #	QUANTITY			SUPPLIER	ORDERED BY (DISTRIBUTOR, GC, COMPANY OR FZ)	INSTALLED BY (MANUFACTURER OR GC)	NOTES
				CLOSED KITCHEN	OPEN KITCHEN	IN-LINE AND CANTINA				
IT / POS	IT	INTERIOR DIGITAL MENU BOARD	L-043	4	4	4	STRATACACHE	TB/IT	SSP	DIGITAL MENU BOARDS - LG 43" DISPLAY
IT / POS	IT	BASE STATION - D/T COMM. SYSTEM	U-011	1	1	1	HME	TB/IT	SSP	5 COMMUNICATORS, +7'-0" A.F.F. System,Five,#C4000D-5-HS3-TB, Drive-Thru,EOS HD High Definition Includes:(1)6200 Base Station W/O Switcherboard (5) EOS HD All-In-One Headsets, (8) Batteries Battery Charger,Speaker,Vehicle Detector Board Microphone,Cables,P
IT / POS	IT	Headset	U-011	1	1	1	HME	TB/IT	SSP	5 COMMUNICATORS, +7'-0" A.F.F. System,Five,#C4000D-5-HS3-TB, Drive-Thru,EOS HD High Definition Includes:(1)6200 Base Station W/O Switcherboard (5) EOS HD All-In-One Headsets, (8) Batteries Battery Charger,Speaker,Vehicle Detector Board Microphone,Cables,Power Adapters, Headset
IT / POS	IT	CCTV DVR & MONITOR	U-035	1	1	1	SPG	TB/IT	SSP	WITH 8 CAMERA. SEE DETAIL 12/E7.0 FOR MNTG. MONITOR - #SU186075Y OR 4 TIER SU186074Y
IT / POS	IT	CCTV DVR & MONITOR	U-035	1	1	1		TB/IT	SSP	
IT / POS	IT	Digital Cameral	U-039	1	1	1		TB/IT	SSP	12 Digital Camera For Envysion/ confirm Kit,12 Digital Camera For Envysion,TB,Kit Includes: 2Mp Camera,17" Office Monitor And Mount All Cabling,12 Ch Poe Switch,Keyboard,Mouse,UPS, Shipping--Note That Fee Based Permit May Be Required Based On Location,Check With Martco And Order If Needed(E5805
IT / POS	IT	SECURITY SYSTEM	U-052	0	0	0		TB/IT	SSP	Alarm,Cross Zoned,TB,3 Buttons,Safewatch Control OPTIONAL FOR U-063
IT / POS	IT	Alarm System Kit	U-063	1	1	1	KAY	TB/IT	SSP	TB,Base Burglar Alarm System Kit W/Cellular Communicator Vista Control Panel, Includes: Vista Alpha Keypad (1),Battery (1), Phone Jack (1),Telco Cord (1),Interior Siren, Cellular Communicator (1),Front Counter Motion Sensor (1),Drivethru - KAY 3741
IT / POS	IT	MOUNTING PLATE	U-131	4	4	4		TB/IT	SSP	ONE PER KIOSK TABLET
IT / POS	IT	STORM AUDIO-NAV KEYPAD	U-131	4	4	4				1 PER KIOSK TABLET
IT / POS	IT	KIOSK TABLET	U-135	4	4	4		TB/IT	SSP	DEDICATED CIRCUIT AND (2) CAT6 CABLES PER TABLET
IT / POS	IT	MONITOR SUPPORT ARM	U-136	4	4	4	FACILITY SOLUTIONS			1 PER KIOSK TABLET - KIT,TB,39"L,MONITOR SUPPORT ARM, CRADLE NOT INCLUDED - #SW550340-39
IT / POS	IT	VERIFONE (CREDIT CARD MACHINE)	U-136	4	4	4		TB/IT	SSP	1 PER KIOSK TABLET
IT / POS	IT	MONITOR SUPPORT ARM	U-137	1	1	1	FACILITY SOLUTIONS			1 PER STORE; CALIFORNIA STORES 50% OF TOTAL TABLETS - KIT,TB,24.25"L,MONITOR SUPPORT ARM, CRADLE NOT INCLUDED - #SW550340-24
IT / POS	IT	STORM AUDIO-NAV KEYPAD	U-137	1	1	1		TB/IT	SSP	1 PER STORE; CALIFORNIA STORES 50% OF TOTAL TABLETS
IT / POS	IT	KITCHEN MONITOR	U-152	3	3	3	VIEWSONIC			SEE SCOPE OF WORK - VA2055Sm
IT / POS	IT	V-LINE MONITOR SUPPORT ARM	U-182	0	2	2				
IT / POS	IT	MONITOR SUPPORT ARM	U-208	2	2	2	FACILITY SOLUTIONS	TB/IT	SSP	KIT,TB,39"L - Cradle not Included
IT / POS	IT	MONITOR SUPPORT ARM	U-209	2	2	2	FACILITY SOLUTIONS	TB/IT	SSP	KIT,TB,24.25"L,MONITOR SUPPORT ARM, CRADLE NOT INCLUDED
IT / POS	IT	KITCHEN MONITOR	U-237	1	1	1				
IT / POS	IT	KITCHEN MONITOR	U-238	5	5	5				BASE EQUIPMENT MOUNTED WITH V-LINE AND EVO ARM
IT / POS	IT	KITCHEN MONITOR	U-238	4	4	4	VIEWSONIC		SSP	VA2055Sm
IT / POS	IT	MONITOR CEILING MOUNTED BRACKET	U-239	1	1	1				FOR ONE MONITOR EACH. SEE DETAIL 2/A6.3
IT / POS	IT	BUMP BAR	U-250	6	6	6	SPG			WITH MOUNTING PLATE - #WST1434Y
IT / POS	IT	BUMP BAR	U-250	6	6	6	QSR AUTOMATION		SSP	WITH MOUNTING PLATE - KP-7500
SMALLWARES	BUILDING MISCELLANEOUS	Trash Container	B-400	3	3	3	RUBBERMAID	DISTRIBUTOR	GC	32 Gal,Gray Rubbermaid #2632,WSM #652801
SMALLWARES	BUILDING MISCELLANEOUS	Dolly	B-400	3	3	3	RUBBERMAID	DISTRIBUTOR	GC	20,32,44,&55Gal Container,Blk,Rubbermaid2640,WSM#65310
SMALLWARES	BUILDING MISCELLANEOUS	Waste Basket Container	B-405	5	5	5	RUBBERMAID	DISTRIBUTOR	GC	Slim Jim,W/Handles,15 Gal. Gray,RUC#3541,WSM#6046109
SMALLWARES	BUILDING MISCELLANEOUS	WASTE BASKET	B-406	1	1	1	RUBBERMAID	DISTRIBUTOR	GC	28 QT - #FG295600BLA (BLACK)
SMALLWARES	BUILDING MISCELLANEOUS	Restroom sign - Men's	D-043	1	1	1	Technology Media Group	DISTRIBUTOR	GC	Refer to tacobellplans.com for additional sign options
SMALLWARES	BUILDING MISCELLANEOUS	Restroom sign - Women's	D-044	1	1	1	Technology Media Group	DISTRIBUTOR	GC	Refer to tacobellplans.com for additional sign options
SMALLWARES	BUILDING MISCELLANEOUS	Exit Sign	D-056	2	2	2	Technology Media Group	DISTRIBUTOR	GC	
SMALLWARES	BUILDING MISCELLANEOUS	First Aid Kit	F-270	1	1	1	PROSTAT FIRST AID YUM	DISTRIBUTOR	GC	36U
SMALLWARES	BUILDING MISCELLANEOUS	Floor Matt	F-915	1	1	1	CREWSAFE	DISTRIBUTOR	GC	RUBBERIZED - 3'X5',Ribbed,Entrance I #41150012,Charcoal,WSM #800503
SMALLWARES	BUILDING MISCELLANEOUS	Rubber Matt	F-920	1	1	1	CREWSAFE	DISTRIBUTOR	GC	RUBBERIZED - Black,2'X8',1/4",2/Non Slip Corrugated Top & Rubber No- Slip Back Entrance#4-4450,WSM#800507
SMALLWARES	KITCHEN MISCELLANEOUS	Knife rack	P-550	1	1	1	EDLUND	DISTRIBUTOR	GC	S/S,12"X12"X2 5/8",W/12" Skirt & Open Back,NSF,Hold 8 Chef'S Knives Plus 2 Smaller Knives,1 Steel,Scissors Edlund #KR-699,WSM #303500
SMALLWARES	KITCHEN MISCELLANEOUS	Condiment Cart	S-254	1	1	1	PRONTO	DISTRIBUTOR	GC	TB,17"Lx10.25"Wx6"H,Plain Steel W/Black Powder Coat Finish,Plastisol Feet,Custom Pronto#CHPW0446,WSM#6020323
SMALLWARES	KITCHEN MISCELLANEOUS	Straw Holder	S-283	1	1	1	SPG	DISTRIBUTOR	GC	Wst788E,F/Ka/Kl,Includes:(1)Dchese (4)Dsdivbl,(1)Dsfese,(1)Dste
SMALLWARES	KITCHEN MISCELLANEOUS	Lid dispenser	S-443	1	1	1	CAL-MIL ADA	DISTRIBUTOR	GC	18"Hx23"Dx10"W STRAW - LID DISPENSER - TB103
SMALLWARES	KITCHEN MISCELLANEOUS	Napkin dispenser	S-444	1	1	1	Tork Xpressnap	DISTRIBUTOR	GC	#5555100
SMALLWARES	KITCHEN MISCELLANEOUS	Paper bag holder	S-448	2	2	2	WSM	DISTRIBUTOR	GC	TB,Nemco #69400,S/S,Custom WSM #6034878
SMALLWARES	KITCHEN MISCELLANEOUS	Cup Dispenser	S-482	1	1	1	A.J. ANTUNES	DISTRIBUTOR	GC	DRIVE THRU - #DACS60
SMALLWARES	KITCHEN MISCELLANEOUS	Scale	S-489	2	2	2	EDLUND	DISTRIBUTOR	GC	10#X.1OZ,Electronic,Edlund #DS-10 CSTM;WSM #113464
SMALLWARES	KITCHEN MISCELLANEOUS	VERTICAL CUP DISPENSER	S-710	4	4	4	A.J. ANTUNES	DISTRIBUTOR	GC	TO BE INSTALLED IN CUP MODULE AT POS - # DAC 5 - Refer to Furniture Catalog on tacobellplans.com for POS configuration options

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CONTRACT DATE: 8/26/19
BUILDING TYPE: EXP. LITE MED40
PLAN VERSION: MARCH 2018
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 314007
STORE NUMBER: TBD

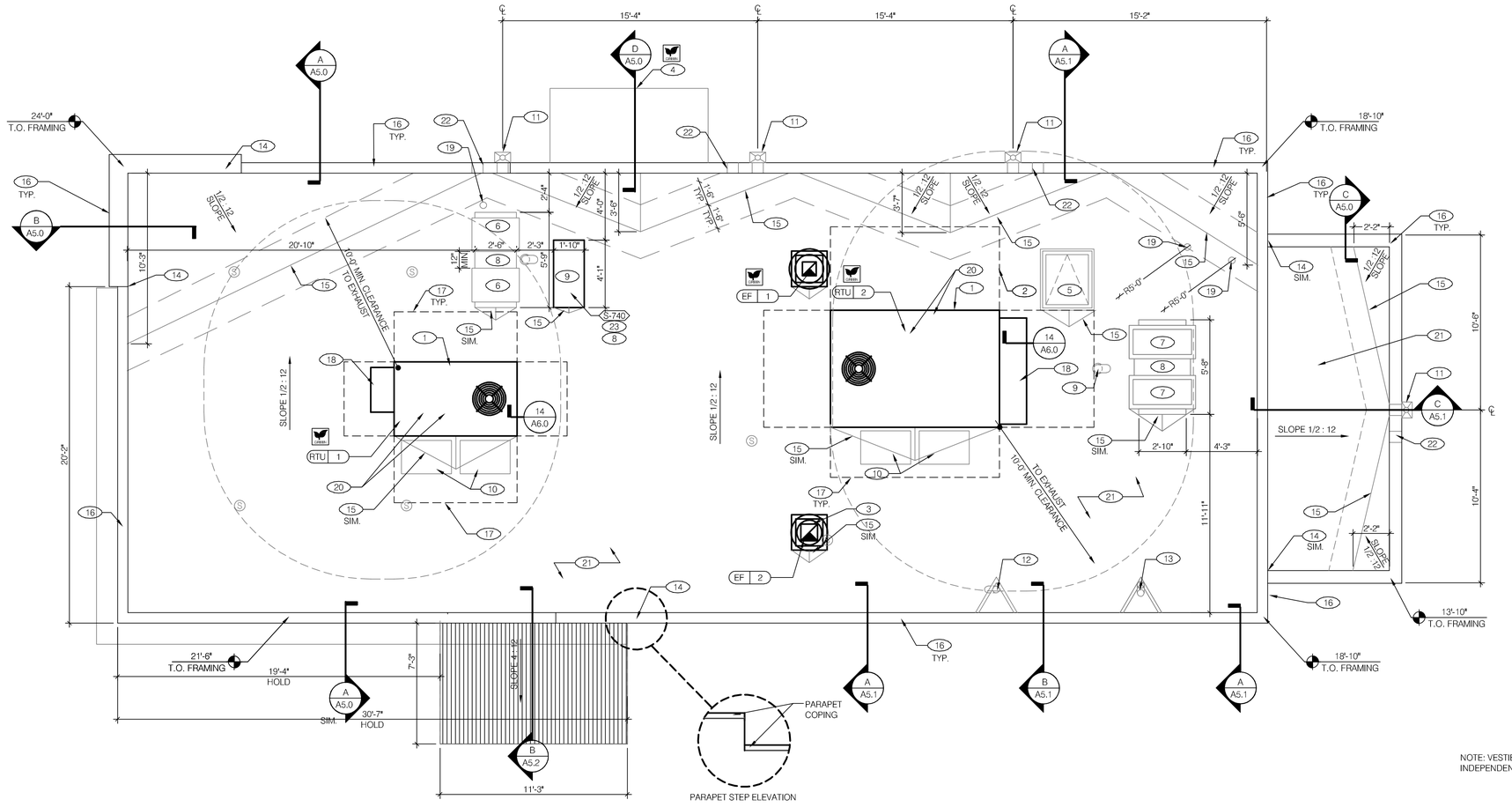
△1 TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

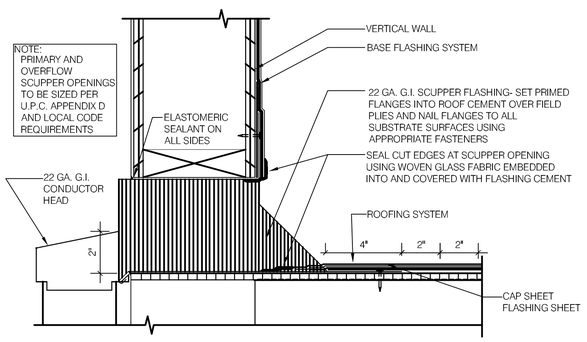
EQUIPMENT SCHEDULE

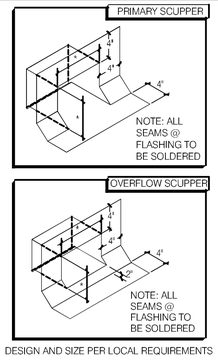
A2.4

6/29/20



ROOF PLAN 1/4"= 1'-0" A





* DESIGN AND SIZE PER LOCAL REQUIREMENTS

T-AR103

SCUPPER FLASHING F

WATERPROOFING:
A. PAINT UNDERSIDE OF PARAPET CAP FLASHING WITH FACTORY BONDED PAINT GRIP OR PRIMER.
B. TOP NAILING AT PARAPET CAP FLASHING WILL NOT BE ACCEPTED.
C. PENETRATIONS IN ROOFING MEMBRANE AND FLASHING SHALL ONLY BE MADE AS INDICATED ON THE DRAWINGS OR SPECS.
D. SEE SPECIFICATIONS FOR SEALANT SPECS.
E. ALL SHEET MTL FLASHING SHALL BE 22 GA MIN.

MISCELLANEOUS:
A. ROOF PENETRATIONS CLOSER THAN 12" FROM ANOTHER WILL NOT BE ALLOWED.
B. EXHAUST FANS MIN. 10'-0" AWAY FROM ALL AIR INTAKE / SUPPLY.
C. LOCATE WALK-IN CONDENSERS ON ROOF ONLY IF REQUIRED BY CODE.

ROOF PLAN NOTES E

1. ROOFTOP UNIT. INSTALL PLUMB AND LEVEL.
2. KITCHEN HOOD EXHAUST FAN. SEE SHEETS M3.0 & DETAIL 19/A6.0.
3. RESTROOM EXHAUST FAN. SEE 18/A6.0.
4. CANOPY. SEE SCOPE OF WORK.
5. ROOF HATCH: SEE 7/A6.0.
6. ICE MACHINE CONDENSERS.
7. WALK-IN COOLER / FREEZER CONDENSERS. SEE SCOPE OF WORK SHEET.
8. EQUIPMENT PLATFORM. SEE DETAIL 15/A6.0.
9. PIPE HOOD FOR UTILITIES. SEE DETAIL 9/A6.0.
10. 24x36 WALK MATS. SEE ROOF SPECS.
11. SCUPPER AND DOWNSPOUT. SEE DETAIL F/A3.0.
12. WATER HEATER INTAKE. SEE DETAIL 13/A6.0 FOR BRACING.
13. WATER HEATER EXHAUST FLUE SHALL BE MIN. 6" HIGHER THAN INTAKE-MAINTAIN MIN. 10'-0" FROM NEAREST POINT OF RTU INTAKE. SEE DETAIL 13/A6.0 FOR BRACING.
14. CHANGE IN PARAPET ELEVATION SEE DETAIL 14/A6.2.
15. ROOF CRICKET. SEE DETAIL 16/A6.0.
16. METAL PARAPET CAP. SEE DETAIL 2 & 5/A6.0
17. MAINTAIN MFR'S ROOFTOP UNIT MAINTENANCE CLEARANCE.
18. OUTSIDE AIR INTAKE FOR ROOFTOP UNIT. MAINTAIN MIN 10'-0" SEPARATION FROM PLUMBING VENTS, FLUES AND BUILDING EXHAUST.
19. WASTE VENT THROUGH ROOF. THE TOP OF WASTE VENTS SHALL BE 12" HIGHER THAN THE CLOSEST PARAPET CAP U.N.O. OR NOT ALLOWED BY LOCAL JURISDICTION. SEE 12/A6.0 FOR FLASHING ASSEMBLY.
20. POWER / GAS / CONDENSATE ENTRY UNDER HVAC UNIT (PER HVAC MFR. SPECS.) REFER TO MECH. AND PLUMB DWGS. UTILITY ACCESS FROM WITHIN CURB - NO ROOF PENETRATIONS. DO NOT RUN ON ROOF SURFACE. SEE 13/P6.0.
21. "DURO-LAST" SINGLE PLY ROOF MEMBRANE OVER MINIMUM R-20 RIGID INSULATION BOARD OVER 5/8" APA RATED EXTERIOR GRADE PLYWOOD OVER TRUSSES. INSTALL PER MANUFACTURERS SPECIFICATIONS.
22. OVERFLOW SCUPPER, SEE DETAIL F/A-3.0.
23. DUAL REMOTE CONDENSER. REFER ELECTRICAL AND PLUMBING.
24. GUTTER AND DOWNSPOUT.

KEY NOTES B

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RICK J. DICKSON
No. 00920072
STATE OF INDIANA
ARCHITECT
8/10/20

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

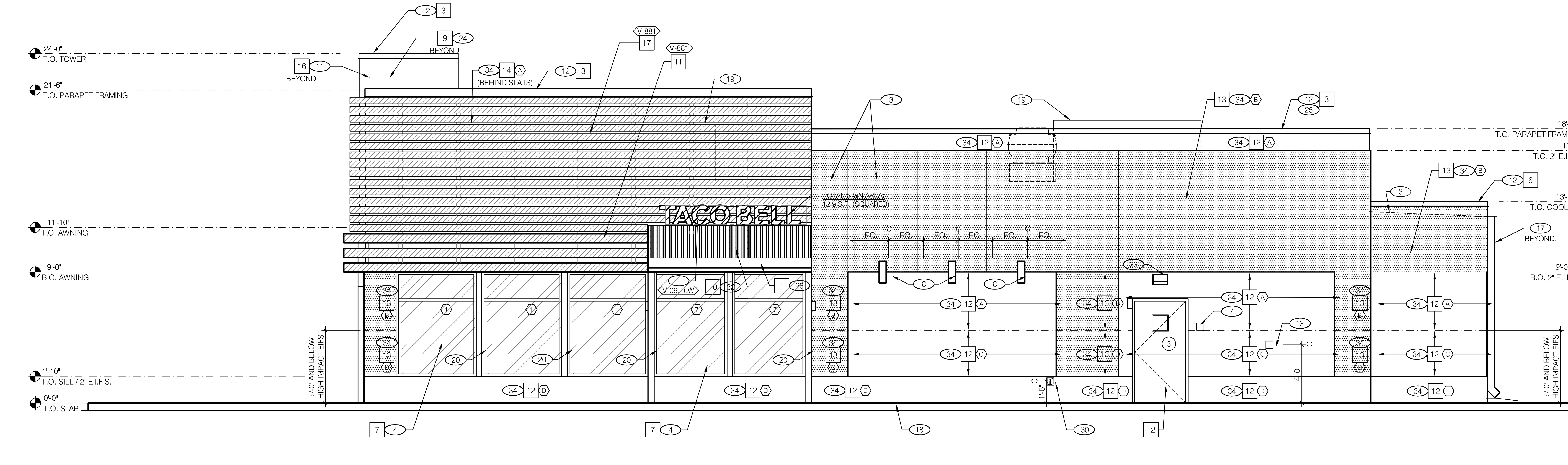
TACO BELL
1 3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

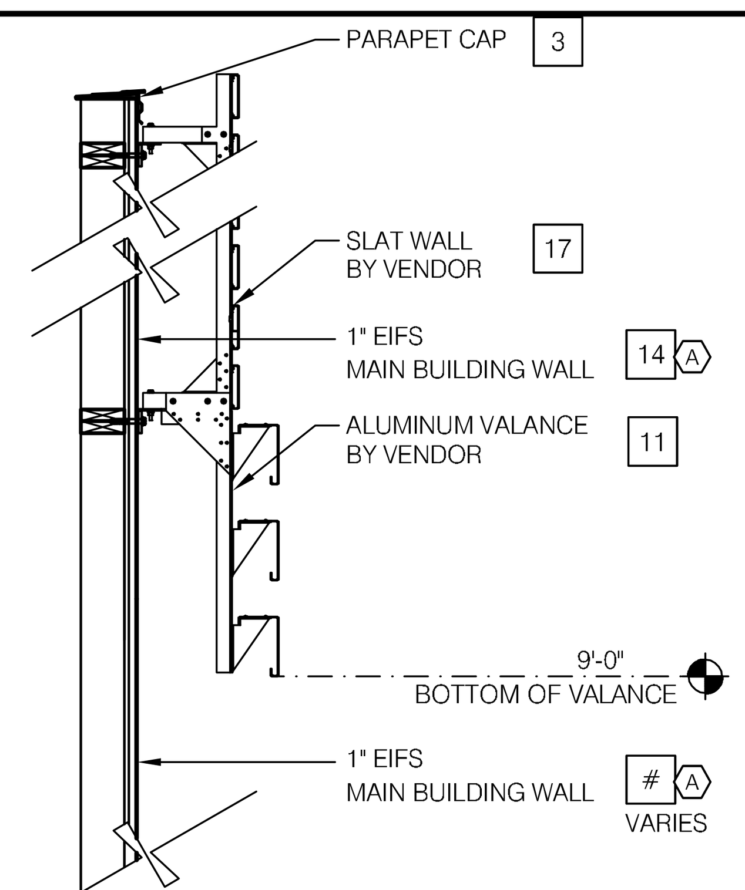
ROOF PLAN

A3.0

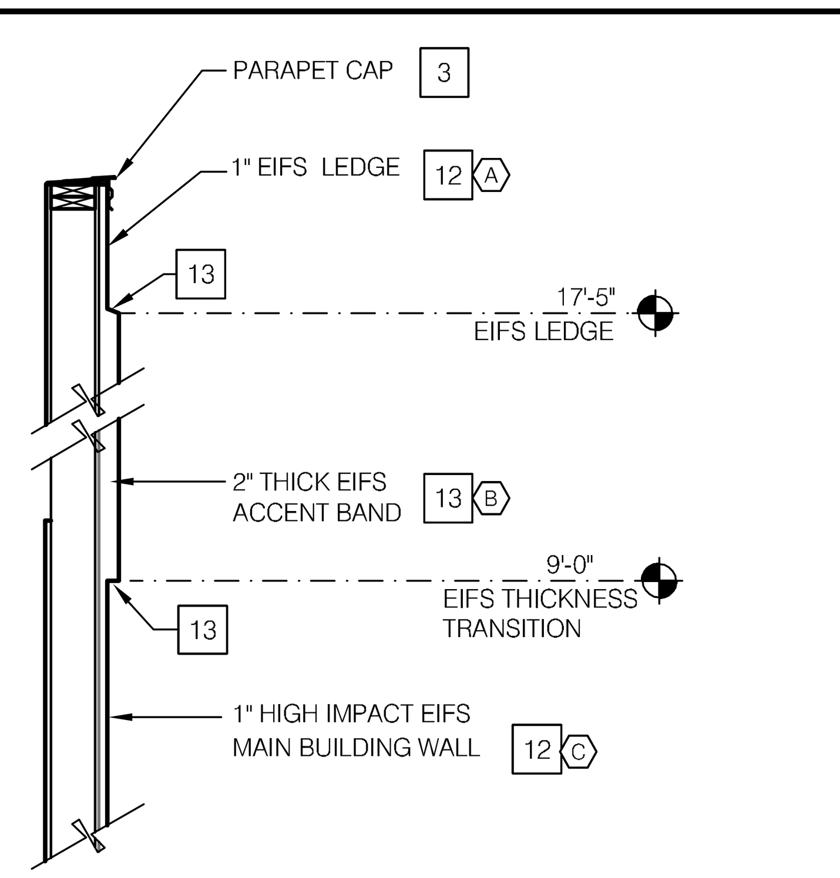
6/29/20



RIGHT SIDE ELEVATION 1/4"=1'-0" A



SLAT WALL COLOR TRANSITION N.T.S. I



EIFS THICKNESS COLOR TRANSITION N.T.S. G

MISCELLANEOUS
A. SEE SHT A1.1 "WINDOW TYPES" FOR WINDOW ELEVATIONS.

SEALERS (REFER TO SPECS):
A. SEALANT AT ALL WALL AND ROOF PENETRATIONS.
B. SEALANT AT ALL WINDOW AND DOOR FRAMES AT HEAD AND JAMB. DO NOT SEAL SILL @ WINDOWS.
C. APPLY NEOPRENE GASKET (CONT.) BETWEEN BUILDING & CANOPY.

"CRITICAL" DIMENSIONS:
A. REQUIRED CLEAR OPENING WIDTH TO ENSURE COORDINATION WITH STANDARD SIGNAGE/ BUILDING ELEMENTS DIMENSIONS.

NOTE: NO EXTERIOR SIGNS ARE WITHIN THE SCOPE OF WORK COVERED BY THE BUILDING PERMIT APPLICATION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL EXTERIOR SIGNS AND INSTALLATION OF REQUIRED BLOCKING AND ELECTRICAL CONNECTIONS FOR FINAL APPROVED SIGNS.

GENERAL NOTES F

PAINTING OVER EIFS/STUCCO:
APPLICATOR MUST DO THEIR DUE DILIGENCE WITH PREPARATION.
PRIMER: 1 COAT SW A24W8300, LOXON CONCRETE & MASONRY PRIMER.
FINISH: 2 COATS SW A82-100 SERIES, A-100 EXTERIOR LATEX SATIN.

EIFS NOTES E

- (A) BASE THICKNESS - 1" THICK E.I.F.S.
- (B) BASE THICKNESS - 2" THICK E.I.F.S. GREEN
- (C) BASE THICKNESS -1" THICK E.I.F.S. WITH HIGH IMPACT MESH (ONLY WHERE NOTED). SEE DETAIL 2/A6.2.
- (D) BASE THICKNESS -2" THICK E.I.F.S. WITH HIGH IMPACT MESH (ONLY WHERE NOTED). SEE DETAIL 2/A6.2. GREEN

NOT USED N.T.S. B

V-XXX	QTY	ITEM DESCRIPTION	ELEC
V-881	1	SLAT WALL	
V-04.3640	2	3'-6" x 4'-0" LARGE SWINGING BELL, PURPLE LOGO - FACE LIT	X
V-09.16W	3	16" LARGE CHANNEL LETTERS WHITE	X
V-1046	1	DRIVE-THRU CANOPY - 4'-0"D x 9'-0"W x 6"H	X

NOTE: SIGNAGE UNDER SEPARATE PERMIT

SIGN SCHEDULE N.T.S. C

SYMBOL	AREA	MANUFACTURER	COLOR	ALTERNATE MFR.	ALTERNATE COLOR	CONTACT INFORMATION
1	CANOPY RAFTER/ BEAM PAINT	SHERWIN WILLIAMS	SW3022 "WOODSCAPES BLACK ALDER"			SHERWIN WILLIAMS: BRAD HARRINGTON, 216-228-54988 (PHONE), BRAD.E.HARRINGTON@SHERWIN.COM (EMAIL)
2	CANOPY COLUMN PAINT	SHERWIN WILLIAMS	SW 7062 ROCK BOTTOM			
3	PARAPET CAP (TOWER)	DUROLAST (25)	MEDIUM BRONZE (FACTORY FINISH)	SHERWIN WILLIAMS	SW 7069 "IRON ORE"	DURO-LAST: LEE COBB, 800-434-3876 (PHONE)
4	PARAPET CAP (FRONT)	DURALAST	SHERWIN WILLIAMS SW6832 "IMPULSE PURPLE" EGGSHELL (P-4)			
5	PARAPET CAP (SIDES)	DUROLAST (25)	REGAL WHITE (FACTORY FINISH)			
6	PARAPET CAP (COOLER)	DUROLAST (25)	GALVALUME PLUS (FACTORY FINISH)			
7	STOREFRONT WINDOWS	OLD CASTLE	"CHAMPAGNE"			OLD-CASTLE: MARK LEHMAN, 972-551-6100 (PHONE), MLEHMAN@OBE.COM (EMAIL)
8	PIPE BOLLARDS	STREET SMART	YELLOW - 1/4" THICK PLASTIC COVER (US.POSTMAN.COM) OR EQUAL			
9	PARAPET BACK ROOFING	DUROLAST	THE COLOR SHALL BE FACTORY COLORED "TAN." EQUAL ALTERNATE ALLOWED.			DURO-LAST: LEE COBB, 800-434-3876 (PHONE)
10	AWNING, COOLER WALL	BERRIDGE	S-DECK PREWEATHERED GALVALUME			
11	VALANCE COLOR	SIGN VENDOR	SW 7034 "STATUS BRONZE" (EQUAL)			
12	MAIN BUILDING COLOR	SHERWIN WILLIAMS	SW 7067 "CITYSCAPE"	STO LOTUSAN	NA17-0014	SHERWIN WILLIAMS: BRAD HARRINGTON, 216-341-5558 X115 (PHONE), BRAD.E.HARRINGTON@SHERWIN.COM
13	ACCENT COLOR	SHERWIN WILLIAMS	SW 6098 "PACER WHITE"	STO LOTUSAN	NA17-0008	EIFS CONTACT: STO CORP.: CHUCK DUFFIN, 940-894-2092 (PHONE), 940-894-2095 (FAX), *CDUFFIN@STOCORP.COM*
14	WALL COLOR BEHIND SCREEN WALL	SHERWIN WILLIAMS	SW 6831 "CLEMATIS"	STO LOTUSAN	NA14-0004	
15	NOT USED					
16	METAL PANELS	WESTERN STATES METAL ROOFING	18" A606-4 RUSTWALL PANELS			WESTERN STATES DECKING: JESSICA TRIER, 602-422-2696 (PHONE), jessica@metaldeck.com (EMAIL)
17	SLAT WALL	GTC	ALUMAWOOD BARN WOOD, NUSTONE HIGH IMPACT EMBOSSED WOOD GRAIN TEXTURE			

EXTERIOR FINISH SCHEDULE H

1. BUILDING SIGN, BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
2. DRIVE THRU WINDOW. SEE SHEET A1.0 AND A1.1.
3. DASHED LINE INDICATES ROOF BEYOND.
4. STOREFRONT, TYPICAL.
5. NOT USED
6. SWITCH GEAR. PAINT TO MATCH WALL.
7. G.C. TO INSTALL KNOX BOX PER LOCAL FIRE DEPARTMENT STANDARDS. COORDINATE WITH FIRE MARSHAL FOR LOCATION.
8. LIGHT SCONCE. ALIGN BOTTOM OF FIXTURE'S MOUNTING BRACKET WITH EIFS REVEAL / CHANGE IN EIFS THICKNESS.
9. ASSUME D/T LANE SURFACE IS 6" BELOW THE FINISH FLOOR. REFER TO GRADING & SITE PLAN.
10. NOT USED.
11. TOWER WITH METAL PANEL FINISH.
12. PARAPET COPING. IF DURO-LAST EDGE TRIM IS USED. USE THE DURO-LAST PRE-FINISHED EDGE TRIM. SEE DETAIL 2/A6.0.
13. CO2 FILLER VALVE & COVER. SEE DETAIL 5/A6.2 SIM.
14. DRIVE-THRU CANOPY BY OTHERS.
15. GAS SERVICE.
16. WALL SHALL BE FINISHED PRIOR TO INSTALLATION OF SWITCHGEAR.
17. SCUPPER, COLLECTOR, AND VERTICAL DOWNSPOUT 6" MIN. PAINT TO MATCH ADJACENT WALL.
18. CONCRETE CURB.
19. RTU BEYOND. PAINT TO MATCH MAIN BUILDING COLOR.
20. BREAK METAL COVER OVER WOOD STUDS TO MATCH STOREFRONT. SEE 3/A6.1
21. OVERFLOW SCUPPER
22. NOT USED
23. BOLLARD
24. SINGLE MEMBRANE ROOFING.
25. IF THE DURO LAST PARAPET CAP TRIM IS USED IT SHALL NOT BE PAINTED.
26. NOT USED
27. NOT USED
28. STAIN COLOR FOR FASCIA AND SOFFIT.
29. STOREFRONT DOOR. REFER TO DOOR SCHEDULE.
30. HOSE BIBB LOCATION. REFER TO PLUMBING AND DETAIL 8/A6.2
31. NOT USED
32. METAL ROOFING.
33. WALL PACK LIGHT FIXTURE.
34. EIFS (TYP). SEE 2 & 4/A6.2.

KEY NOTES D

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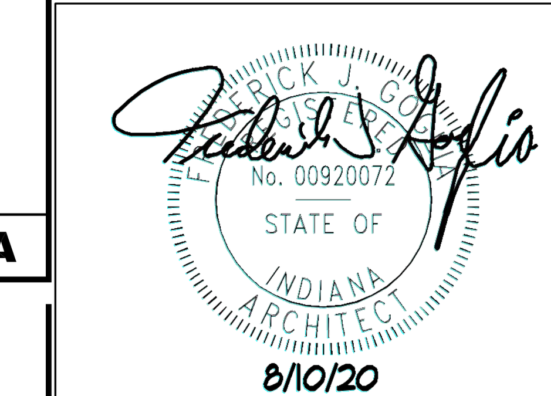


(1) OWN/STATE COMMENTS 08.10.20

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

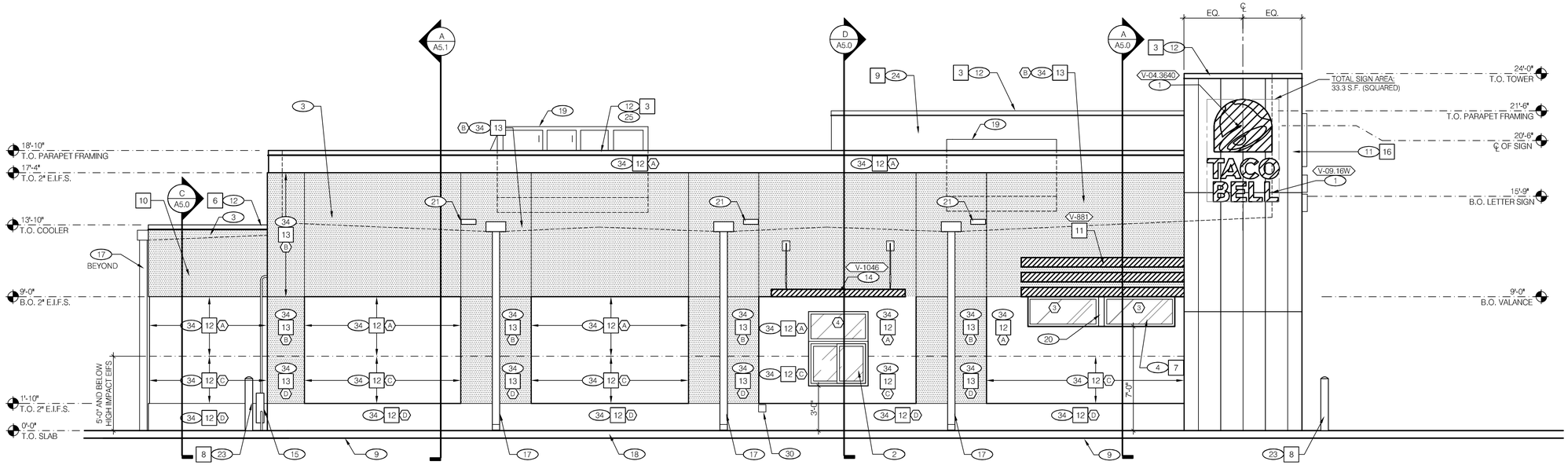
TACO BELL
(1) 3615 BREMEN HWY
MISHAWAKA, IN 46544

EXPLORER LITE
MEDIUM40

EXTERIOR ELEVATIONS

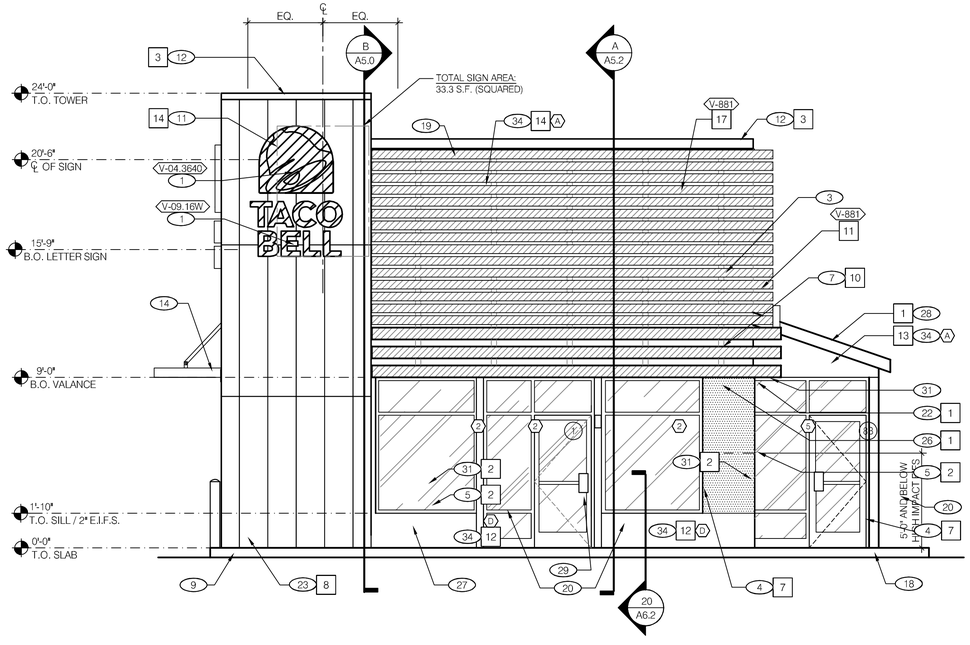
A4.0

6/29/20

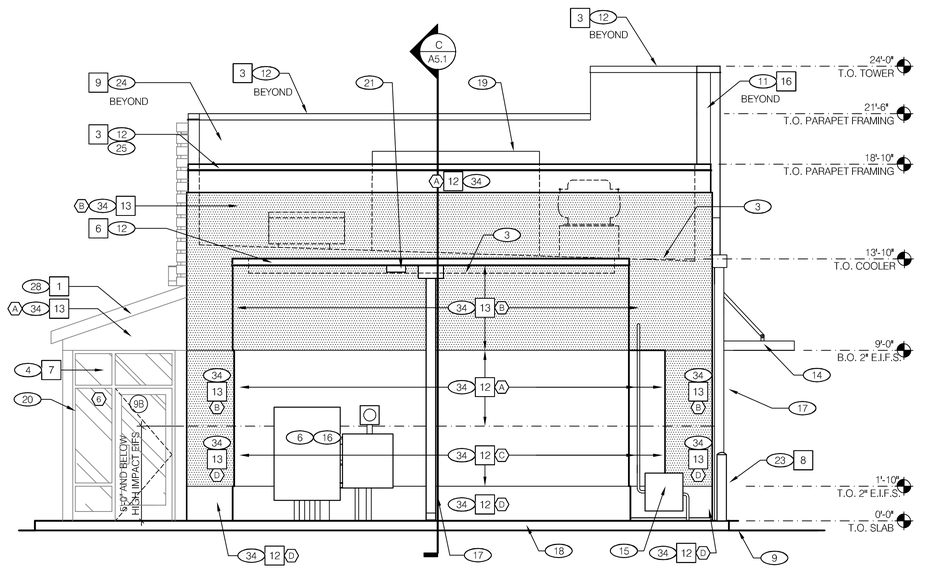


LEFT SIDE ELEVATION 1/4"=1'-0" | **A**

NOTE: VESTIBULE OPTION IS SITE SPECIFIC
INDEPENDENT OF PATIO OPTION



FRONT ELEVATION 1/4" = 1'-0" | **C**



REAR ELEVATION 1/4" = 1'-0" | **B**

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www.arcv.com

RICK J. DICKSON
No. 00920072
STATE OF INDIANA
ARCHITECT
8/10/20

⚠1	OWN/STATE COMMENTS 08.10.20
△	
△	
△	
△	

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

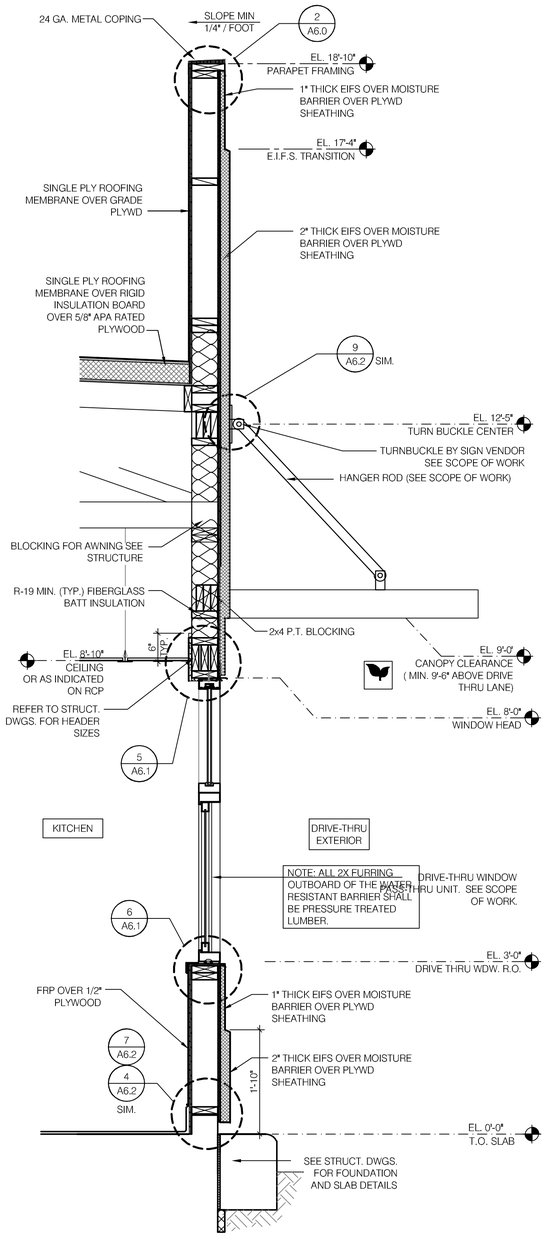
TACO BELL
1 3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

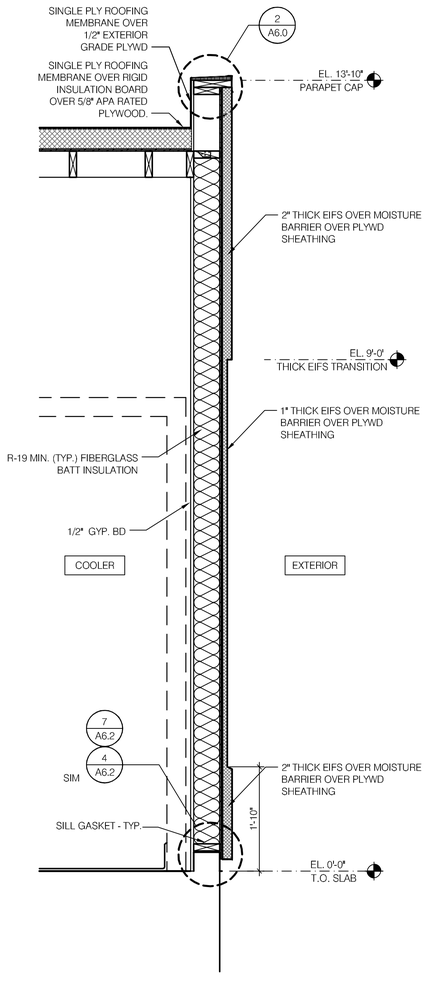
EXTERIOR ELEVATIONS

A4.1

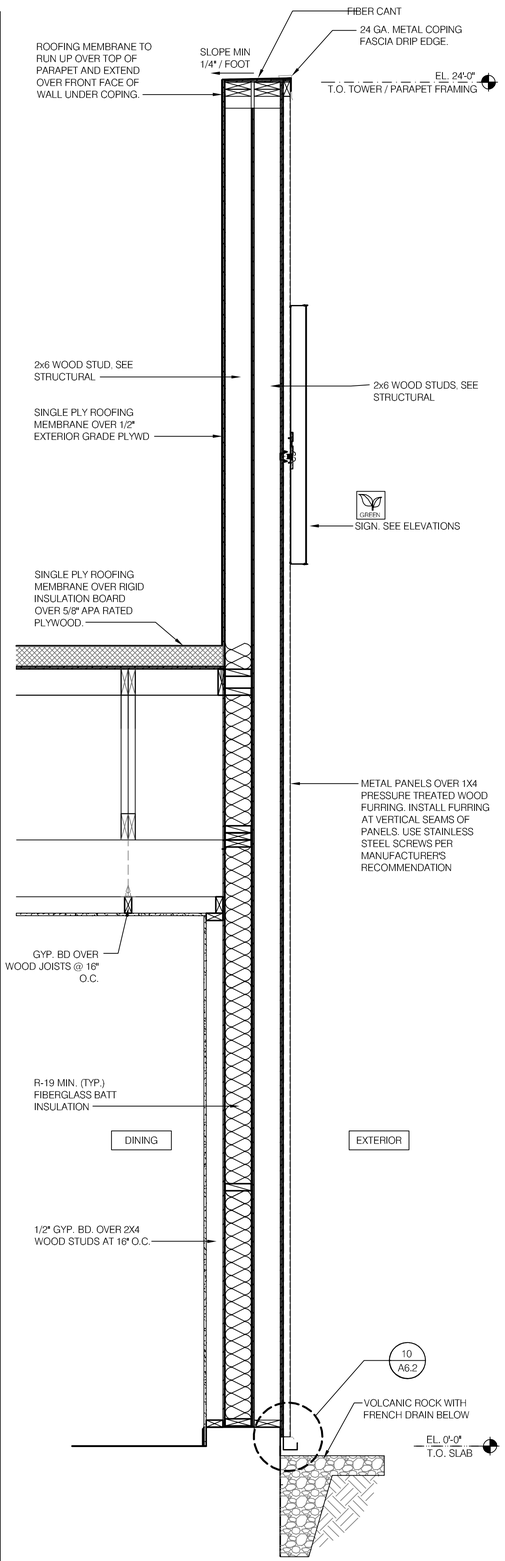
6/29/20



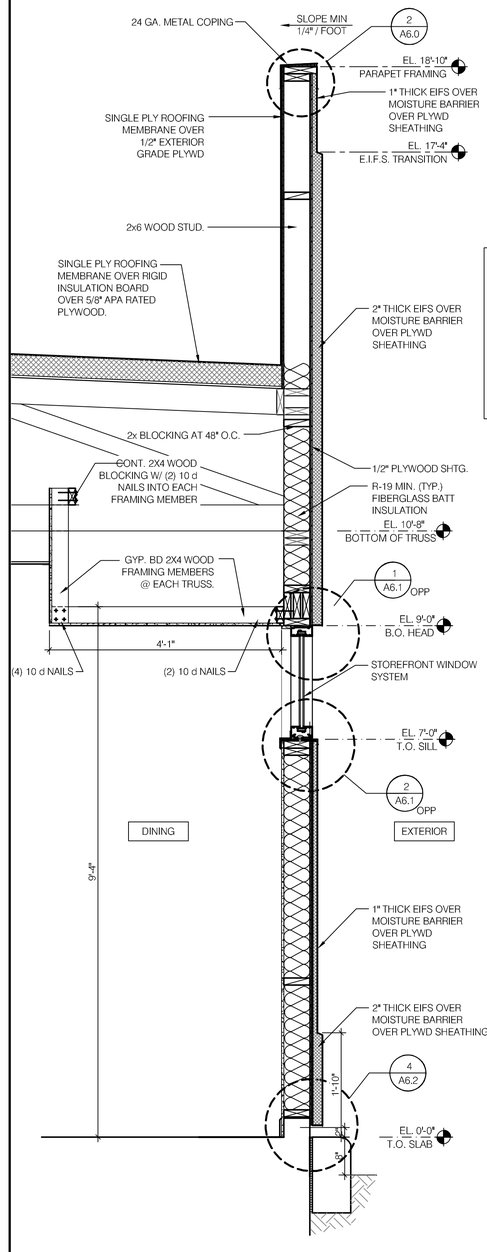
WALL SECTION AT DRIVE THRU 3/4" = 1'-0" | **D**



WALL SECTION AT COOLER | **C**



SECTION AT DINING - TOWER 3/4" = 1'-0" | **B**



WALL SECTION AT DINING 3/4" = 1'-0" | **A**

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RICK J. DICKSON
No. 00920072
STATE OF INDIANA
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8/10/20

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
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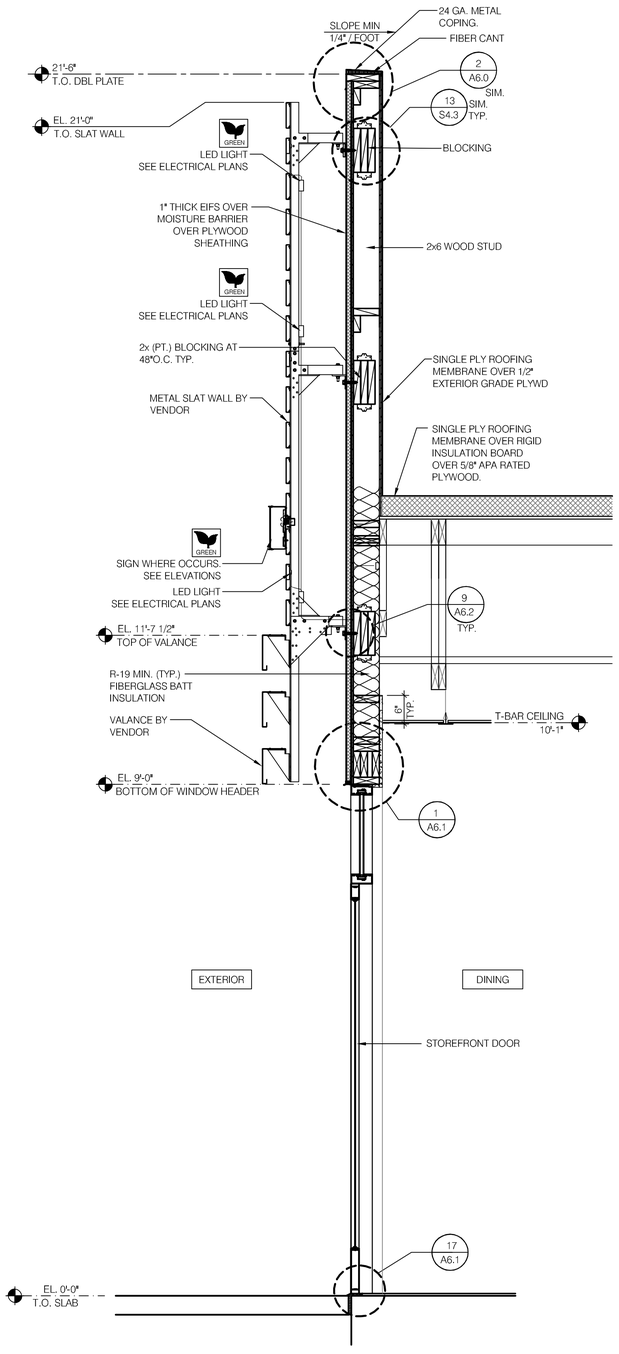
TACO BELL
1
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

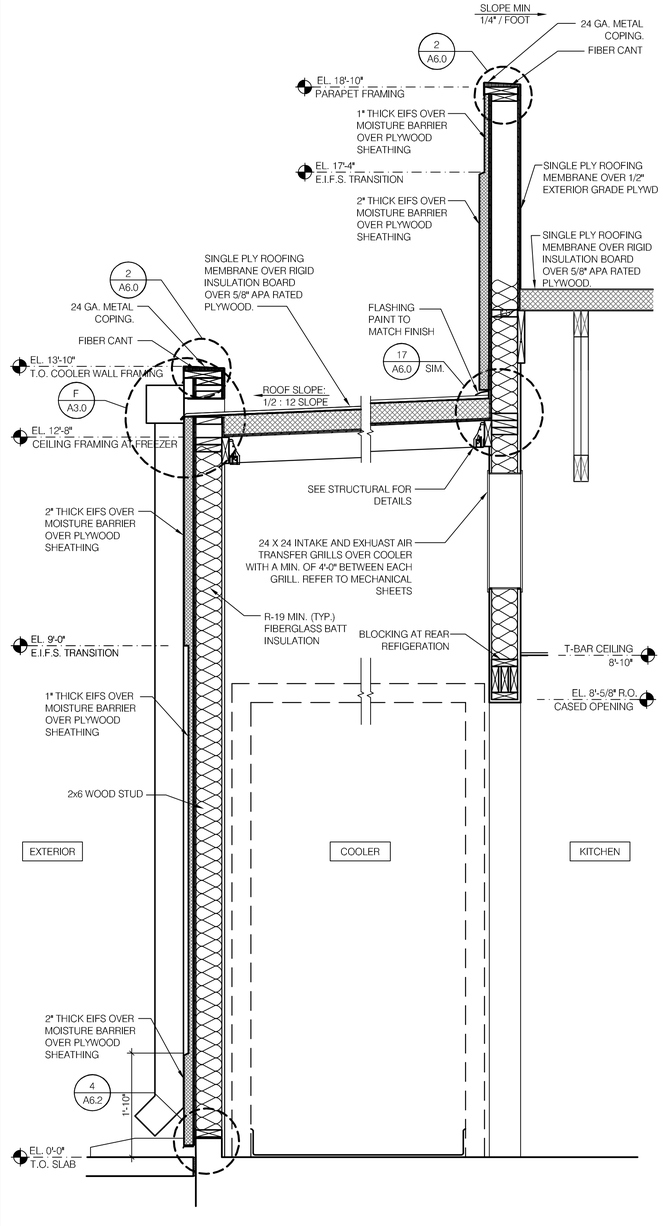
WALL SECTIONS

A5.0

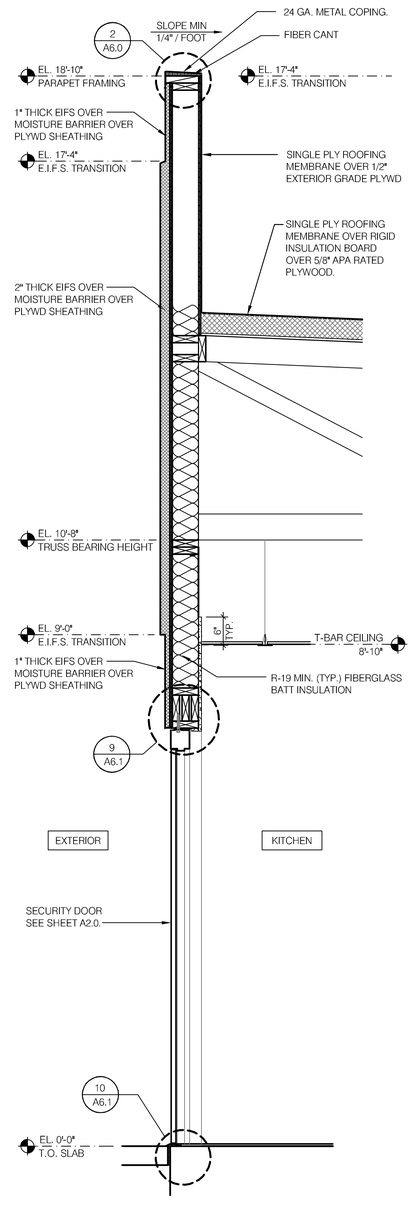
6/29/20



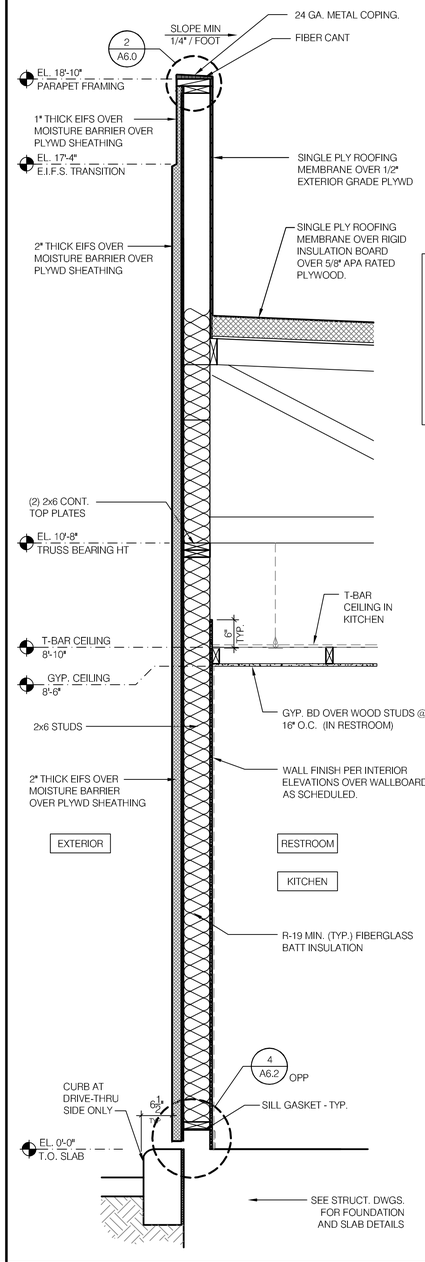
WALL SECTION AT DINING DOOR 3/4" = 1'-0" | **D**



WALL SECTION AT WALK IN COOLER 3/4" = 1'-0" | **C**



WALL SECTION AT SERVICE DOOR 3/4" = 1'-0" | **B**



TYPICAL WALL SECTION 3/4" = 1'-0" | **A**

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RICK J. DICKSON
REGISTERED
No. 00920072
STATE OF INDIANA
ARCHITECT
8/10/20

1	OWN/STATE COMMENTS 08.10.20
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CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
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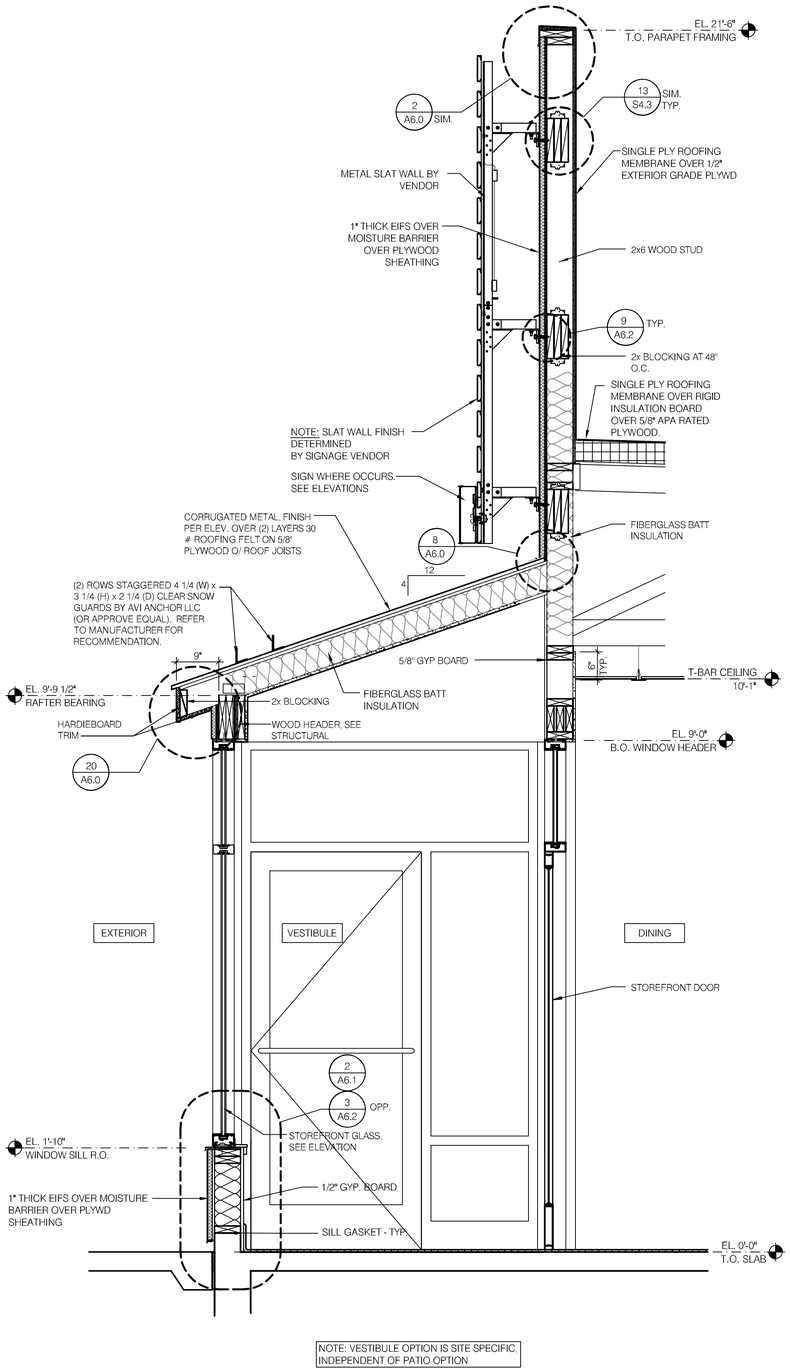
TACO BELL
1
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

WALL SECTIONS

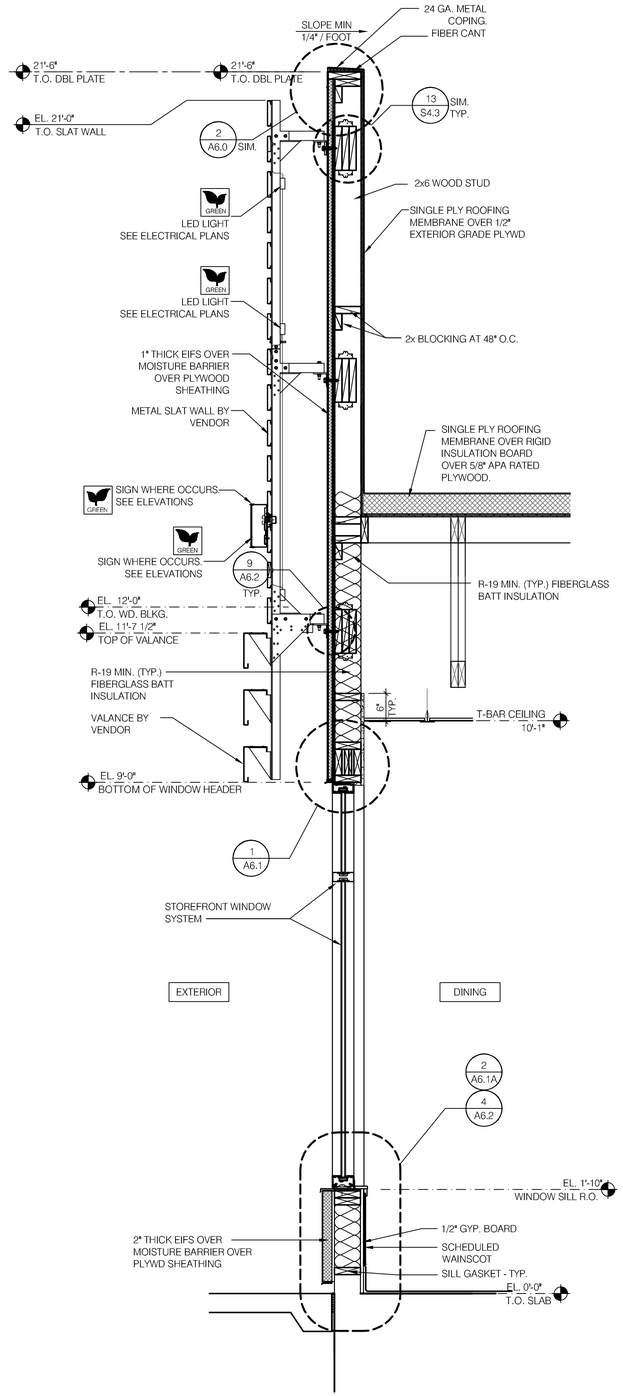
A5.1

6/29/20



NOTE: VESTIBULE OPTION IS SITE SPECIFIC, INDEPENDENT OF PATIO OPTION

WALL SECTION AT VESTIBULE NTS | **B**



FRONT WALL SECTION 3/4" = 1'-0" | **A**

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RICK J. DICKSON
No. 00920072
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8/10/20

1	OWN/STATE COMMENTS 08.10.20
2	
3	
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5	

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

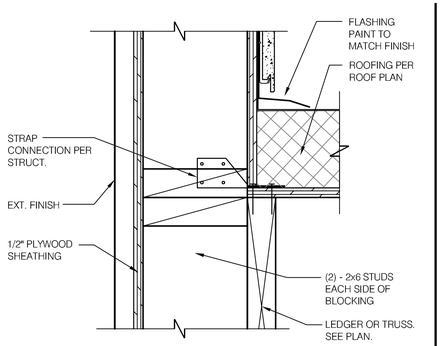
1 TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

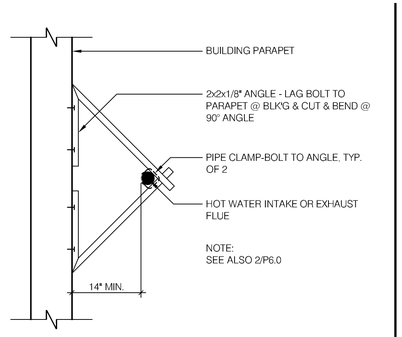
WALL SECTIONS

A5.2

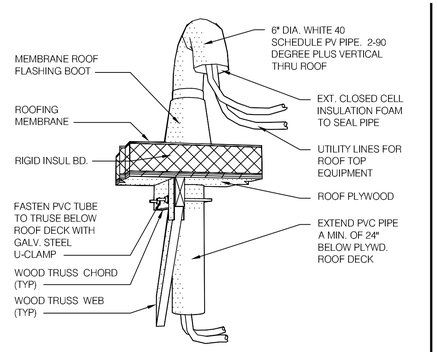
6/29/20



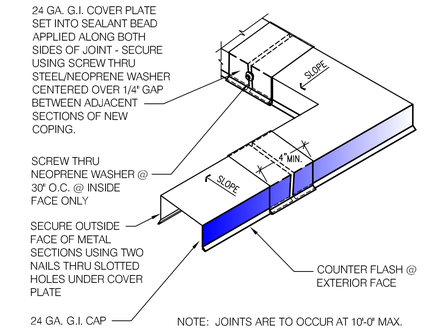
CON. @ STUD AND @ BLOCKING 3" = 1'-0" | **17**



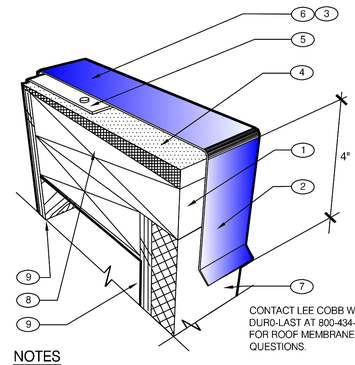
W.H. FLU / INTAKE PIPE SUPPORT N.T.S. | **13**



PIPE HOOD N.T.S. | **9**



COPING JOINT N.T.S. | **5**

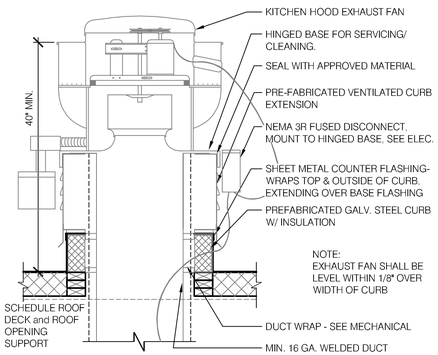


CONTACT LEE COBB WITH DURO-LAST AT 800-434-3876 FOR ROOF MEMBRANE QUESTIONS.

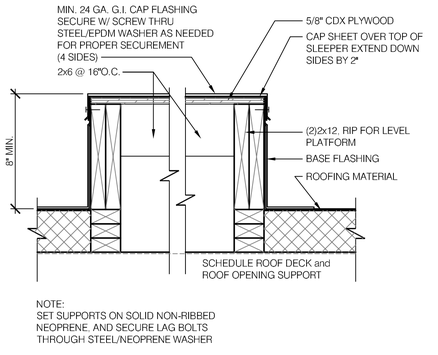
NOTES

1. PROVIDE A WOOD NAILER TO MATCH THE THICKNESS OF THE WALL FINISH. APPROX. 1" THICK IS TYPICAL BUT MAY VARY. TOP OF WOOD NAILER SHALL BE FLUSH WITH TOP OF WALL FINISH. THE WOOD NAILER SHALL EXTEND AT LEAST 1/2" INCH BEYOND THE LOWER HORIZONTAL EDGE OF THE PARAPET COPING TO ALLOW FOR PROPER FASTENING.
2. FASTENERS USED TO ATTACH THE COPING TO WOOD NAILERS, MUST BE SPACED NO GREATER THAN 18 - INCHES ON-CENTER.
3. ALLOW FOR 1/8 - INCH EXPANSION GAP BETWEEN 10-FOOT LENGTHS OF COPING. PROVIDE A COPING JOINT COVERS BETWEEN ENDS OF COPING PIECES AND AT CORNERS. JOINT COVERS SHOULD BE MADE FROM THE SAME MATERIAL AS THE COPING AND SHOULD LAP THE JOINTS A MINIMUM OF 6" ON EITHER SIDE. JOINT COVERS SHALL BE FASTENED THE SAME WAY AS THE COPING.
4. FIBER CANT STRIP SLOPED 1/4:12 TOWARDS ROOF..
5. ROOF MEMBRANE
6. FACTORY PAINTED 24 GAUGE METAL COPING WITH 4" DROP FRONT, BACK AND ENDS (WHERE SHOWN).
7. WALL FINISH: TYPICALLY 1" THK EIFS OR 7/8" THK STUCCO
8. DOUBLE 2X TOP PLATE
9. PLYWOOD SUBSTRATE. SEE SHEET A1.0 & S2.0 FOR ADDITIONAL DETAILS

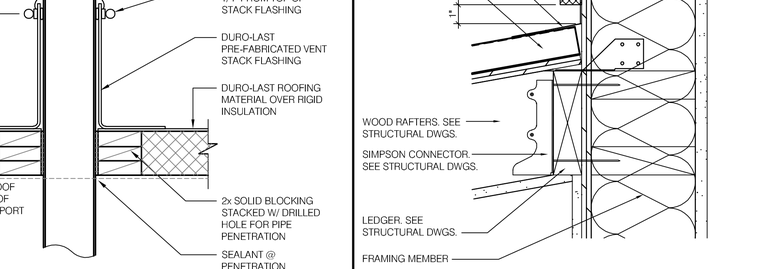
PARAPET CAP N.T.S. | **2**



EXHAUST FAN CURB 1-1/2" = 1'-0" | **18**



HVAC CURB 3"=1'-0" | **14**



NOTES:

(1) ALL MOUNTING HARDWARE TO BE SUPPLIED BY OTHERS.

(2) FOR OPERATING EFFICIENCY, HATCH HARDWARE VARIES BY SIZE.

EXAMPLE MODEL#: PH- A/G OPENING SIZE IN FEET-INCHES (PH-G2630)

HATCH MATERIAL:

GALVANIZED STEEL (PRIME PAINTED)
COVER - 14 GA. GALV STEEL
FRAME COVER - 14 GA. GALV STEEL
FRAME CURB - 14 GA. GALV STEEL
COVER LINER - 22 GA. GALV STEEL

HATCH FINISH:

GALV - PRIME PAINTED

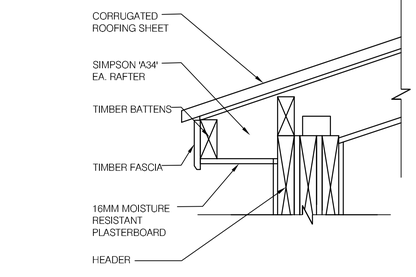
MANUFACTURER:

PRECISION LADDERS, LLC OR EQUAL

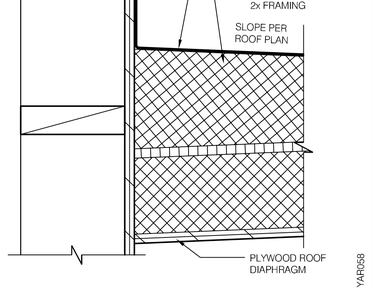
ROOF LADDER AND HATCH 1"=1'-0" | **7**

EXHAUST FAN CURB N.T.S. | **19**

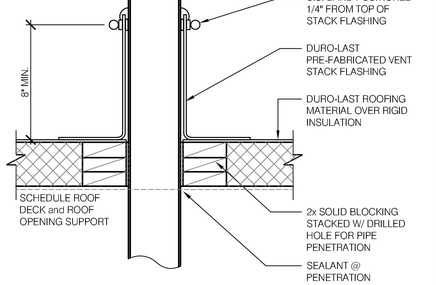
EQUIPMENT PLATFORM SUPPORT 1-1/2"=1'-0" | **15**



ROOF EAVE DETAIL | **20**



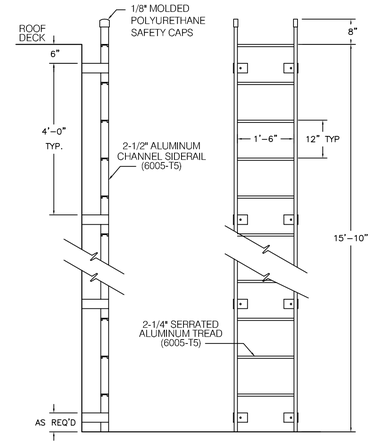
CRICKET 3"=1'-0" | **16**

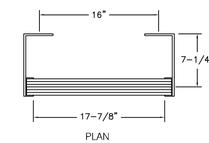


SEALED PIPE FLASHING 1 1/2"=1'-0" | **12**

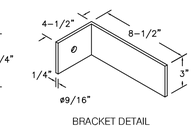
FLASHING AT VESTIBULE 3"=1'-0" | **8**

NOTE: G.C. TO PROVIDE BLOCKING AND INSTALL THE LADDER.





PLAN



BRACKET DETAIL

ROOF LADDER N.T.S. | **4**

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RICK J. FOLIO — No. 00920072 — STATE OF INDIANA — ARCHITECT
8/10/20

⚠1 OWN/STATE COMMENTS 08.10.20
⚠2
⚠3
⚠4
⚠5

CONTRACT DATE: 8/26/19
BUILDING TYPE: EXP. LITE MED40
PLAN VERSION: MARCH 2018
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 314007
STORE NUMBER: TBD

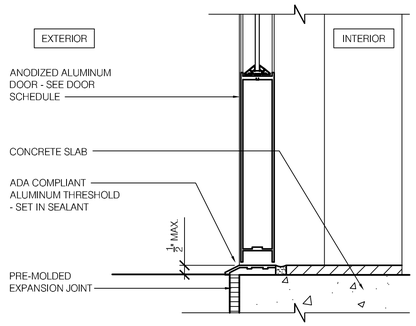
TACO BELL
1 3615 BREMEN HWY MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

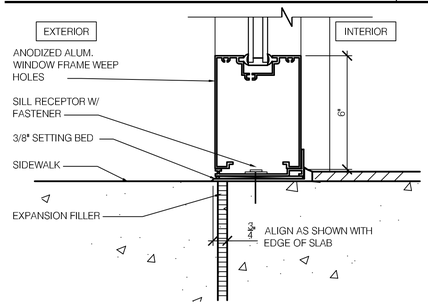
CONSTRUCTION DETAILS ROOF

A6.0

6/29/20

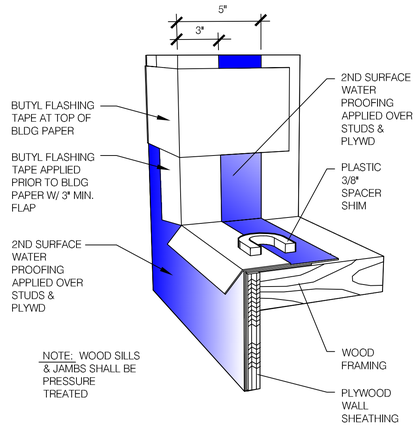


STOREFRONT DOOR SILL 3"=1'-0" **17**



NOTE: SEE DETAIL 16/A6.1 FOR ADDITIONAL INFORMATION REGARDING WATER PROOFING AT AND NEAR WINDOWS / DOORS

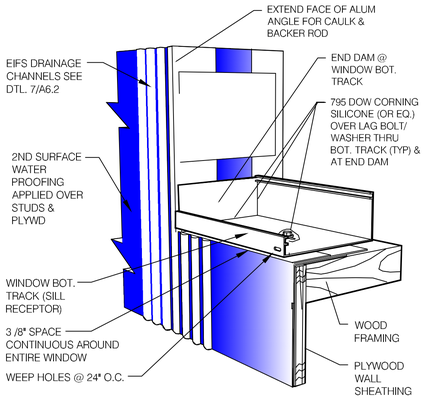
SILL @ FULL HEIGHT OPENINGS 3"=1'-0" **18**



NOTE: WOOD SILLS & JAMBS SHALL BE PRESSURE TREATED

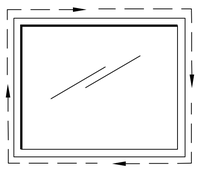
WATER PROOFING ROUGH OPENING

AFTER FRAMING 2ND SURFACE WATER PROOFING PER EIFS MANUFACTURER. ADD FLASHING TAPE AROUND THE ROUGH OPENING FOR THE WINDOW AND DOOR OPENING



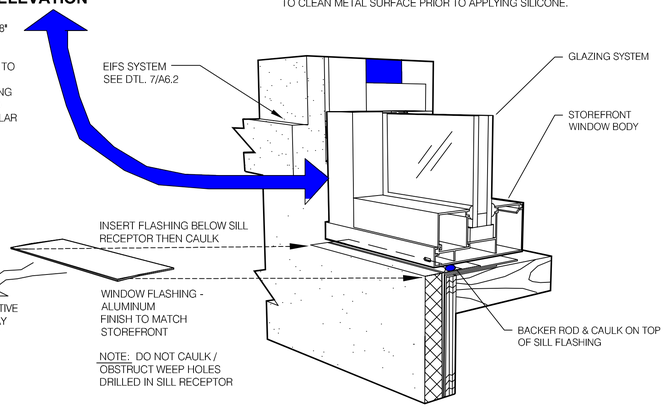
ADD SILL RECEPTOR AND END DAM

THIS DIAGRAM SHOWS THE APPLICATION OF SILL RECEPTOR AND VERTICAL EIFS ADHESIVE DRAINAGE CHANNELS. USE 100% PURE ISOPROPYL ALCOHOL TO CLEAN METAL SURFACE PRIOR TO APPLYING SILICONE.



WINDOW ELEVATION

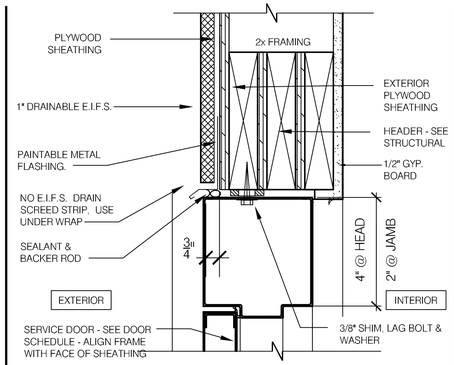
NOTE: THERE SHOULD BE A 3 /8" SPACE AROUND THE ENTIRE WINDOW FRAME TO ALLOW FOR A CONTINUOUS RING OF BACKER ROD AND CAULK SIMILAR TO A TYPICAL GASKET ON A BOTTLE TOP.



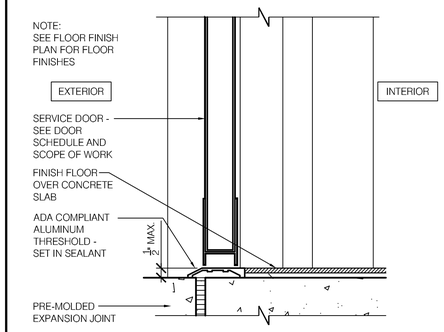
COMPLETING WINDOW SYSTEM

SET STOREFRONT WINDOW, APPLY EIFS SYSTEM AND THEN ADD WINDOW FLASHING OVER TOP OF EIFS AT WINDOW SILL

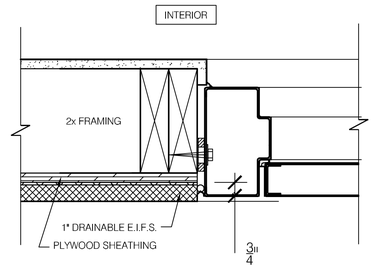
TYPICAL WINDOW WALL WATER PROOFING **16**



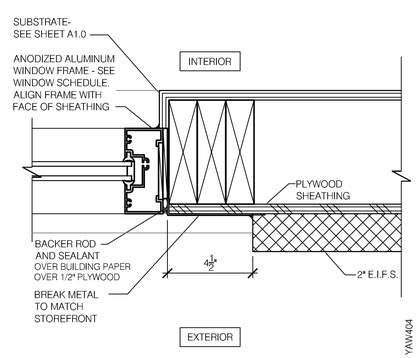
HEAD / JAMB @ SERVICE DOOR 3"=1'-0" **9**



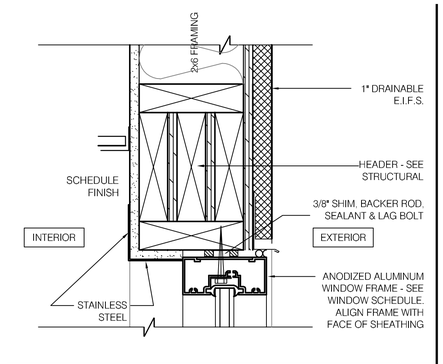
THRESHOLD @ SERVICE DOOR 3"=1'-0" **10**



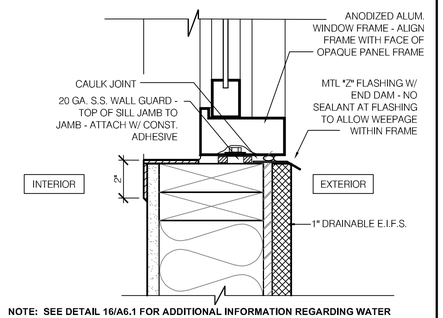
E.I.F.S. JAMB @ SERVICE DOOR 3"=1'-0" **11**



STOREFRONT JAMB DETAIL 3" = 1'-0" **12**

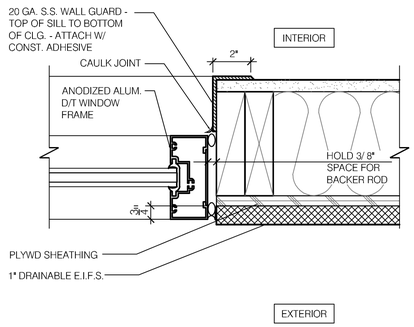


WINDOW HEAD @ DRIVE THRU 3" = 1'-0" **5**



NOTE: SEE DETAIL 16/A6.1 FOR ADDITIONAL INFORMATION REGARDING WATER PROOFING AT AND NEAR WINDOWS / DOORS

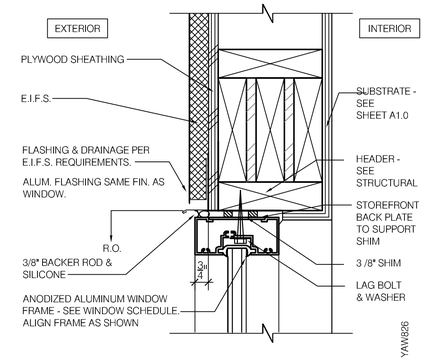
WINDOW SILL @ DRIVE THRU 3"=1'-0" **6**



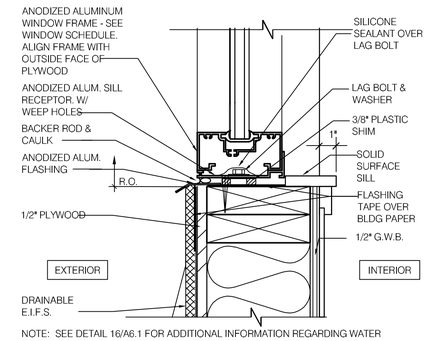
NOTE: SEE DETAIL 16/A6.1 FOR ADDITIONAL INFORMATION REGARDING WATER PROOFING AT AND NEAR WINDOWS / DOORS

WINDOW JAMB @ DRIVE THRU 3"=1'-0" **7**

NOT USED **8**

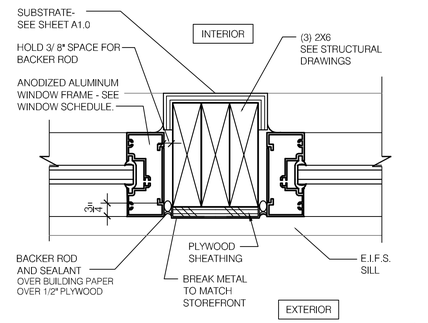


TYPICAL WINDOW HEAD 3" = 1'-0" **1**



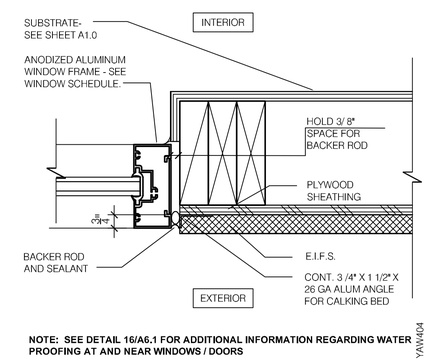
NOTE: SEE DETAIL 16/A6.1 FOR ADDITIONAL INFORMATION REGARDING WATER PROOFING AT AND NEAR WINDOWS / DOORS

TYPICAL WINDOW SILL 3"=1'-0" **2**



NOTE: SEE DETAIL 16/A6.1 FOR ADDITIONAL INFORMATION REGARDING WATER PROOFING AT AND NEAR WINDOWS / DOORS

STOREFRONT JAMB DETAIL 3" = 1'-0" **3**



NOTE: SEE DETAIL 16/A6.1 FOR ADDITIONAL INFORMATION REGARDING WATER PROOFING AT AND NEAR WINDOWS / DOORS

TYPICAL WINDOW JAMB 3"=1'-0" **4**

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RICK J. DICKSON No. 00920072 STATE OF INDIANA ARCHITECT
8/10/20

⚠ OWN/STATE COMMENTS 08.10.20	
CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

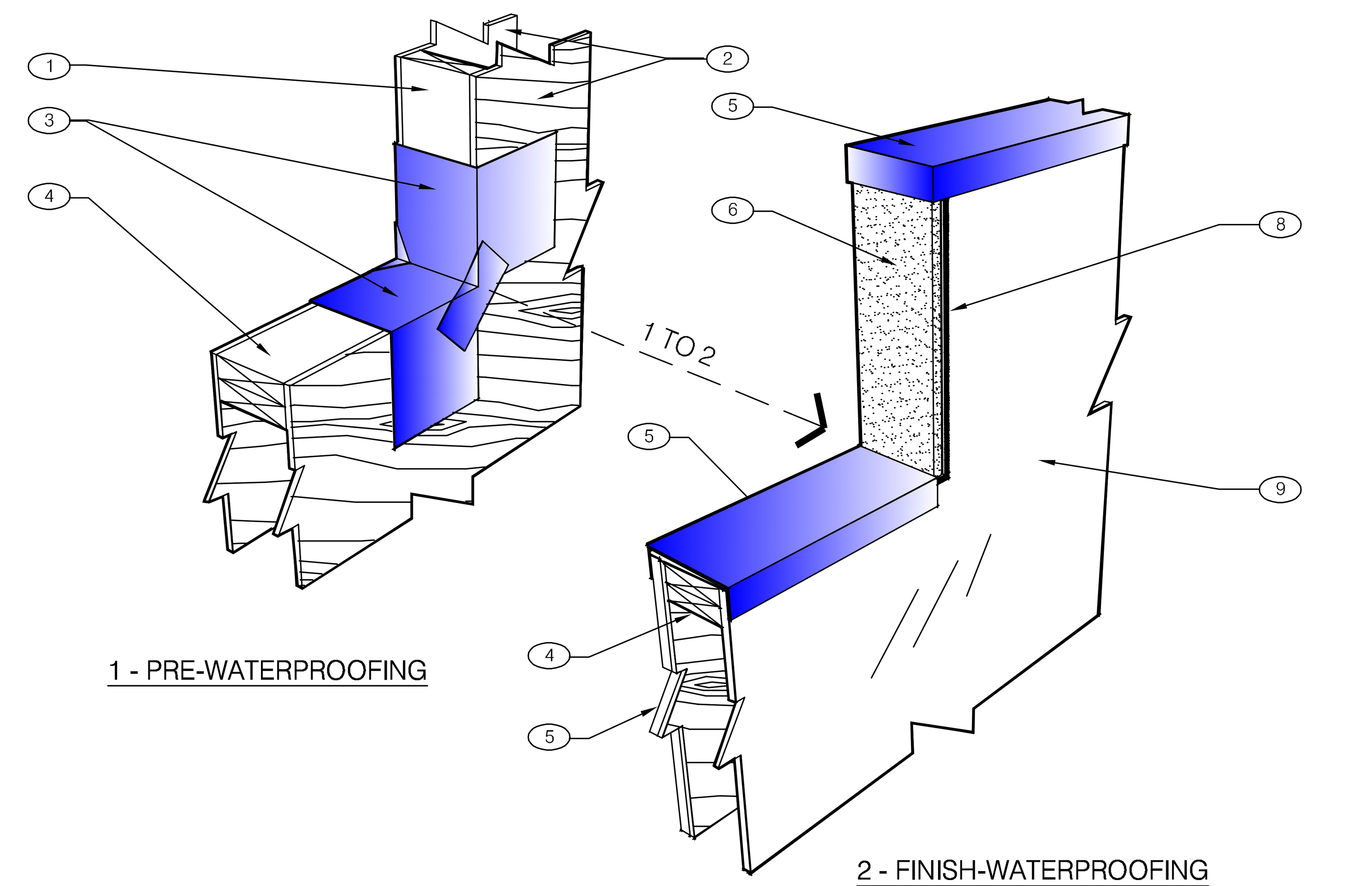
1 TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

CONSTRUCTION DETAILS DOOR/WINDOW

A6.1

6/29/20

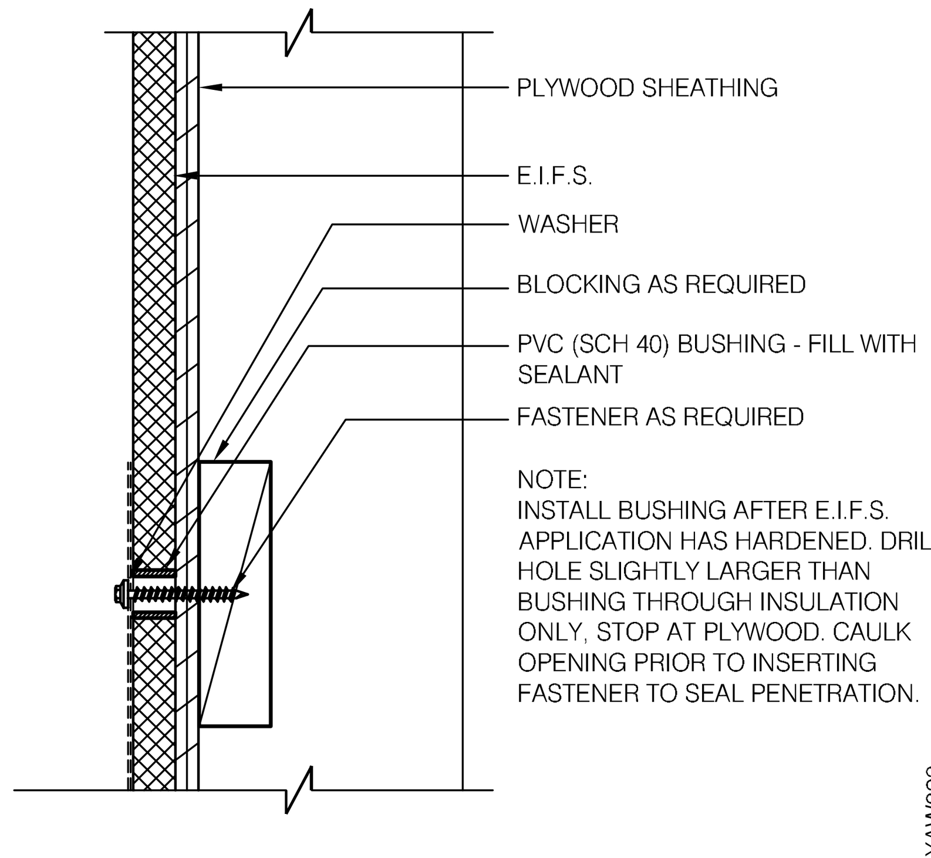


NOTES

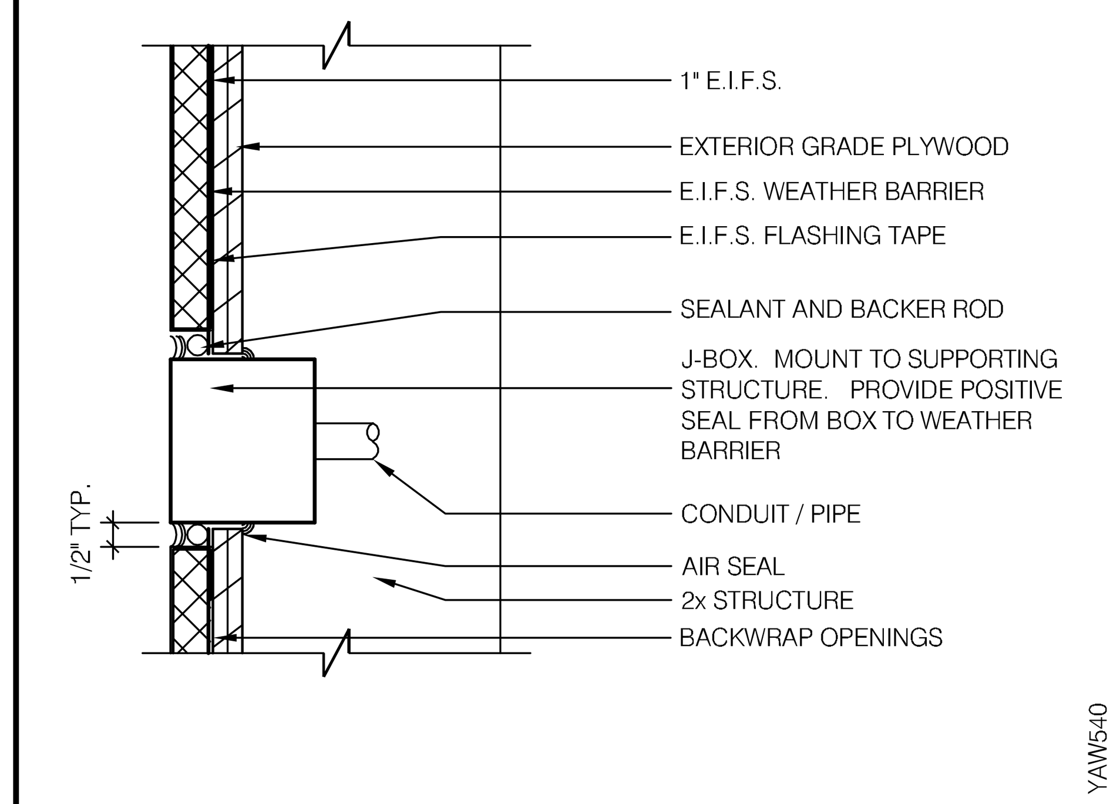
1. 2X WOOD STUDS
2. PLYWOOD SUBSTRATE FOR EXTERIOR WALLS
3. FLASHING TAPE AT ALL VERTICAL PARAPET TRANSITIONS. EXTEND TAPE 12" OUTWARD AND UPWARD FROM CORNER AS SHOWN. LAP CORNERS WITH ANGLED TAPE AS SHOWN TO INSURE FULL COVERAGE AT CORNERS
4. DOUBLE 2X TOP PLATE.
5. PAINTED 24 GAUGE PARAPET COPING. SLOPE 1/4:1 TOWARDS ROOF WITH FIBER CANT STRIPS UNDER COPING. LAP FRONT AND BACK EDGE 2" DOWN VERTICAL FACE. LAP EXPOSED COPING EDGE EXPOSED ENDS AT VERTICAL PARAPET TRANSITION.
6. WRAP 1" THICK EIFS ONTO VERTICAL FACE OF PARAPET TRANSITION
7. EIFS FINISH ON OUTER SURFACE OF EXTERIOR WALL. THICKNESS PER THE EXTERIOR ELEVATIONS ON SHEET A4.0
8. TERMINATION BAR AT VERTICAL TRANSITION OF EIFS AND MEMBRANE ROOFING. SEAL VERTICAL GAP BETWEEN TERMINATION BAR AND EIFS PER ROOFING MANUFACTURER SPECIFICATIONS.
9. PVC ROOFING MEMBRANE ON BACKSIDE OF PARAPET.

IMPORTANT: ONLY FASTEN PARAPET COPING ALONG THE FRONT AND BACK VERTICAL EDGE. NEVER ON TOP OF COPING.

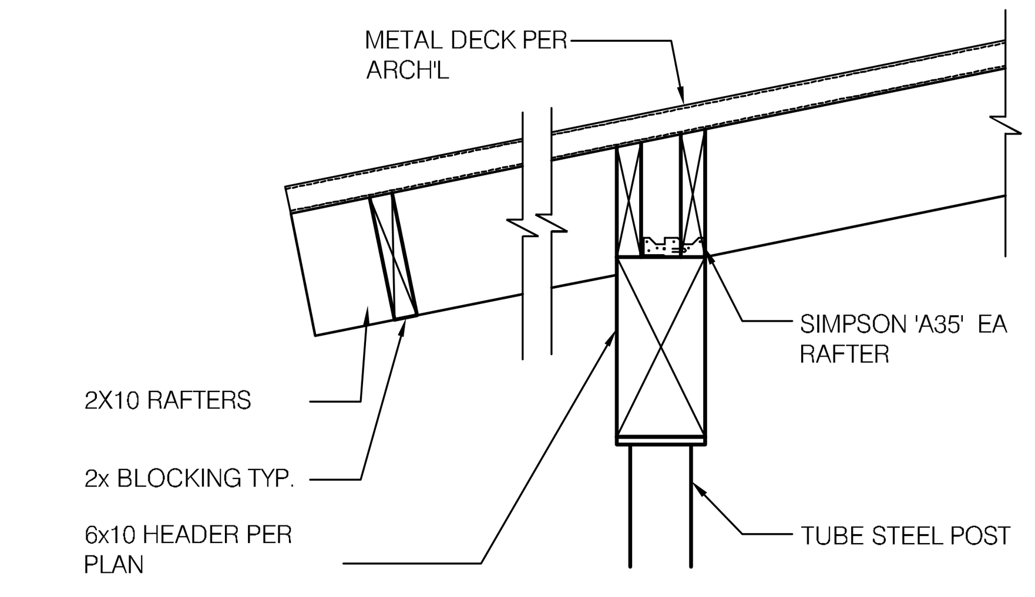
PARAPET CAP & TRANSITION N.T.S. 14



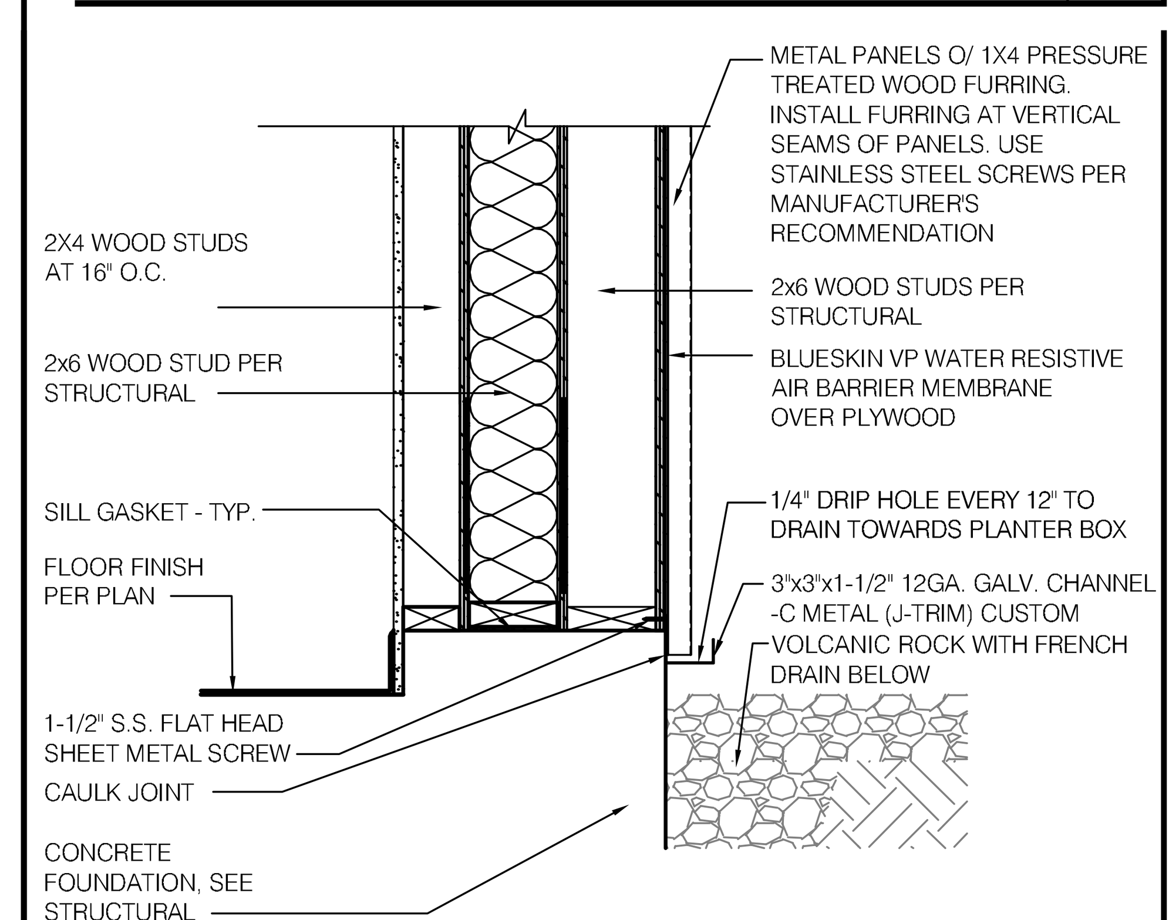
CONNECTION THRU EIFS 3" = 1'-0" 9



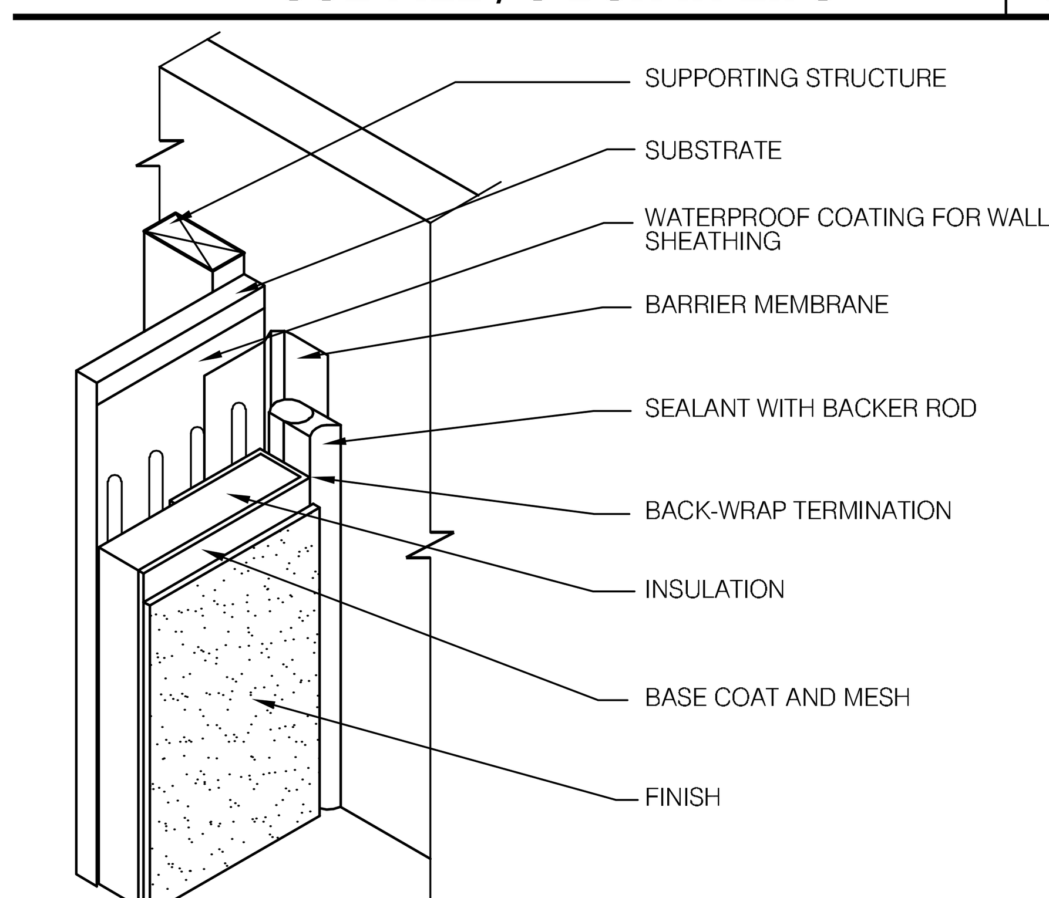
CO2 FILL / J-BOX IN EIFS 3" = 1'-0" 5



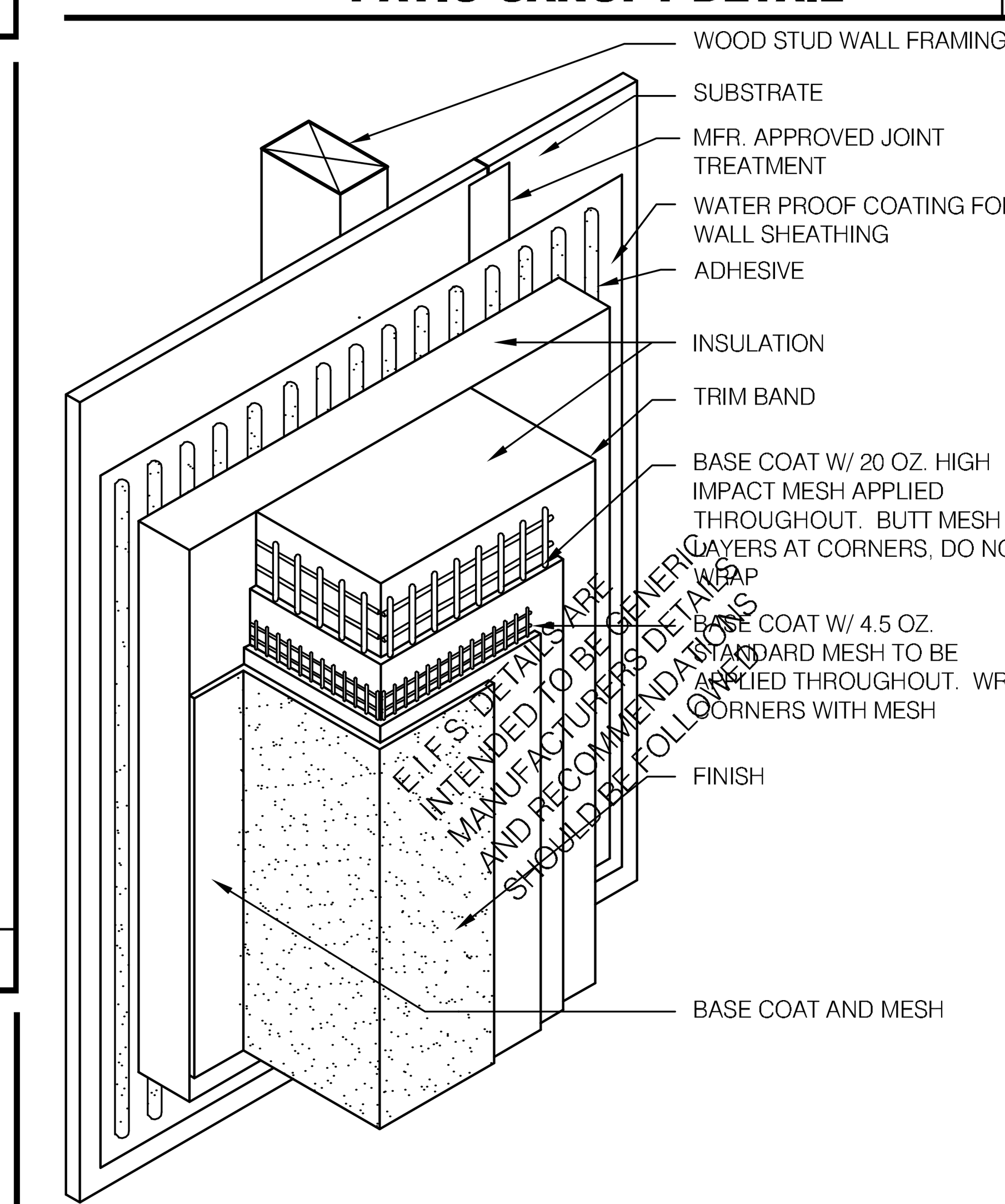
PATIO CANOPY DETAIL 1



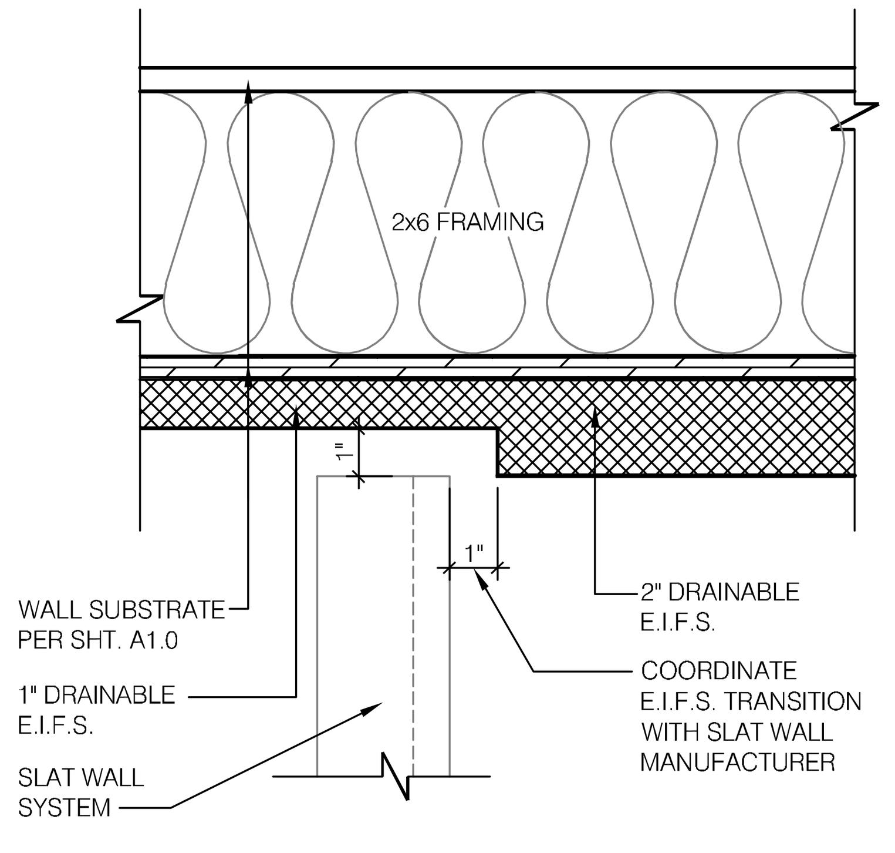
METAL PANEL BASE AT TOWER 1" = 1'-0" 10



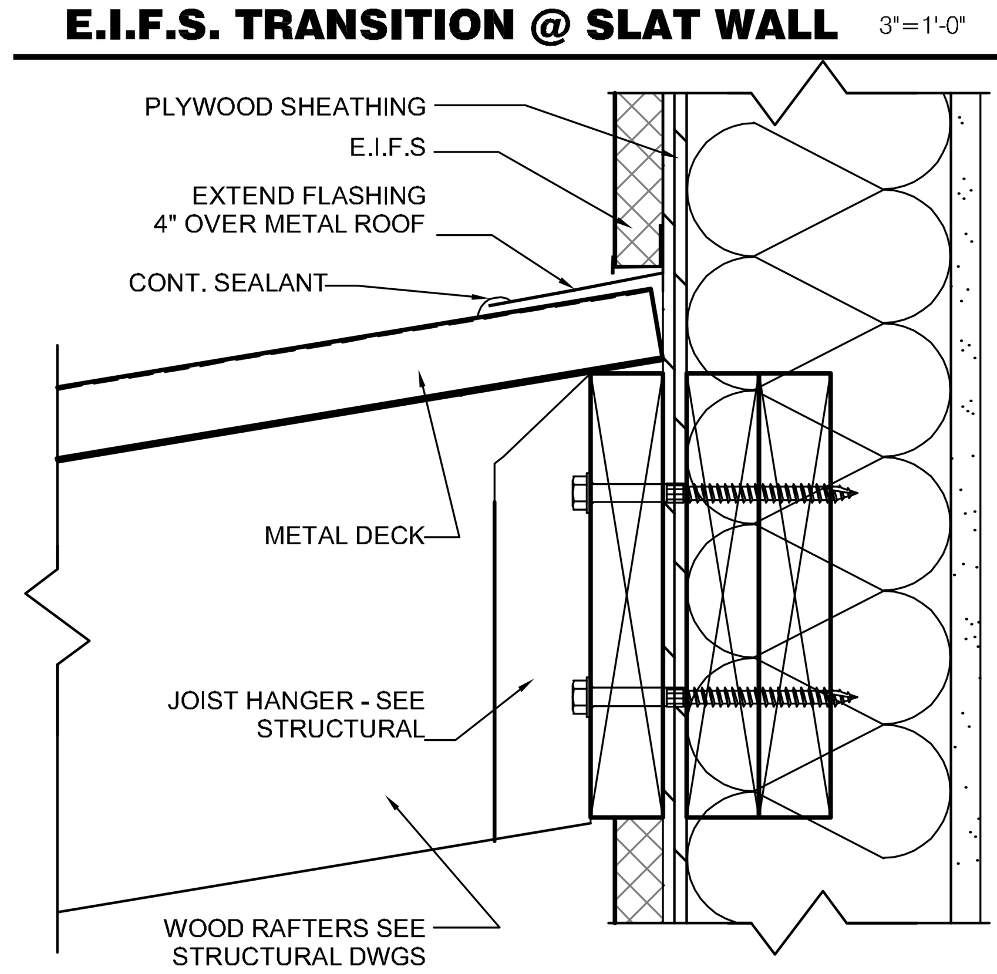
TYP. E.I.F.S. @ INSIDE CORNER N.T.S. 6



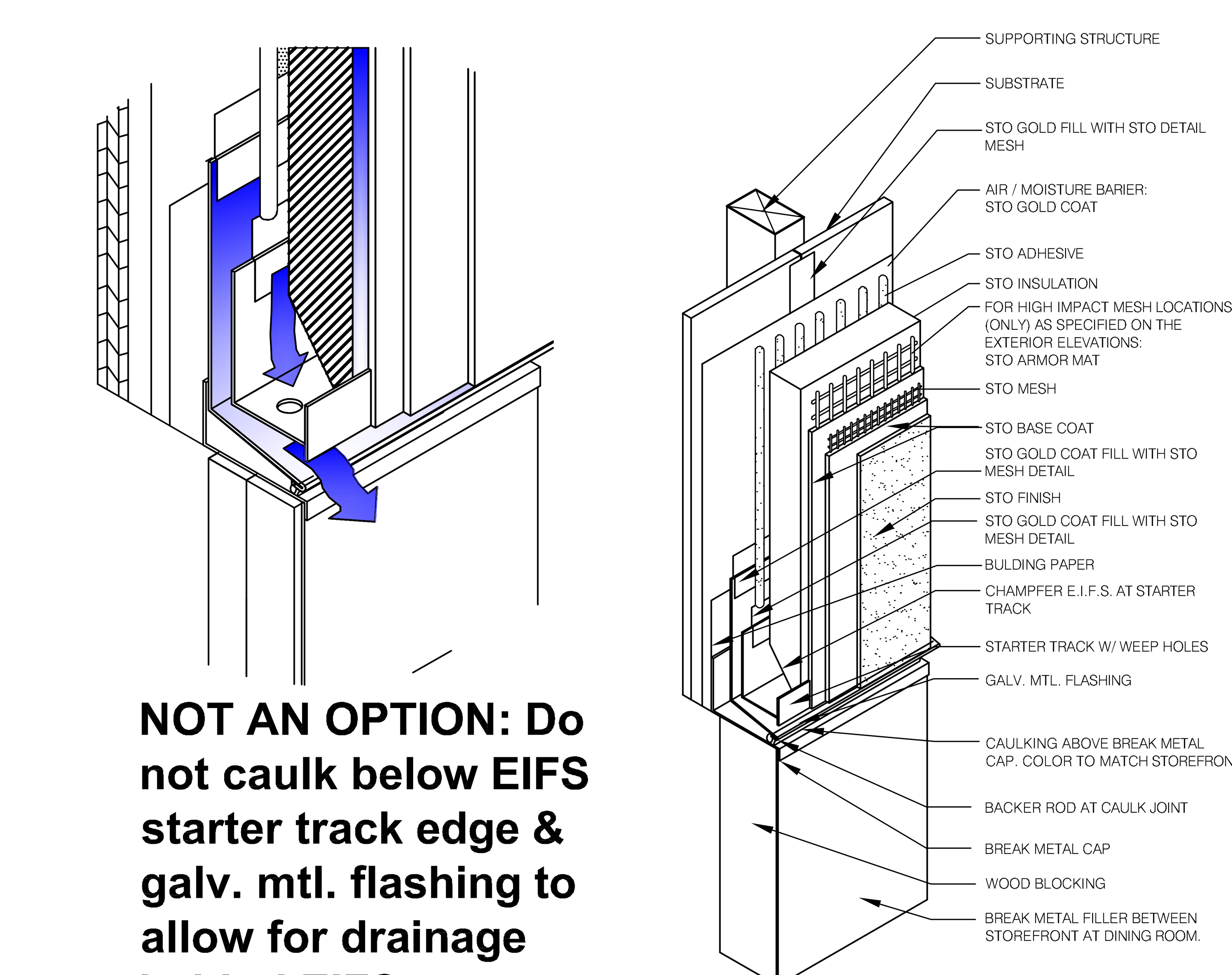
TYP. E.I.F.S. TRIM HIGH-IMPACT N.T.S. 2



E.I.F.S. TRANSITION @ SLAT WALL 3"=1'-0" 19



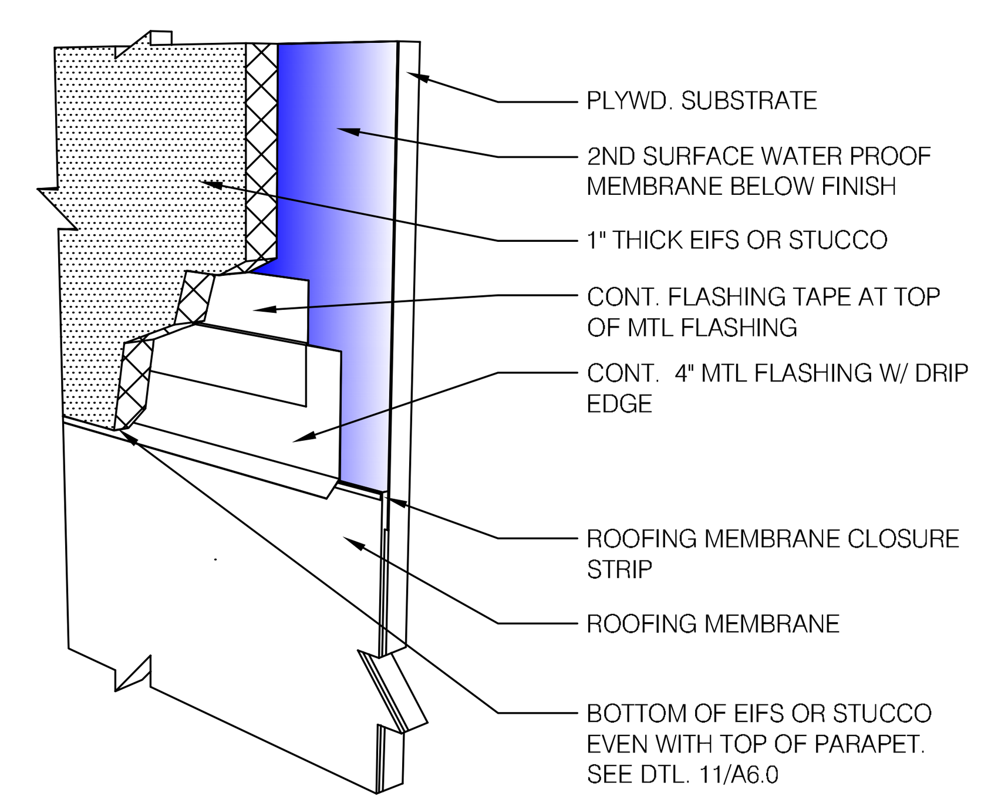
FRONT ROOF CONNECTION DETAIL 3"=1'-0" 20



NOT AN OPTION: Do not caulk below EIFS starter track edge & galv. mtl. flashing to allow for drainage behind EIFS.

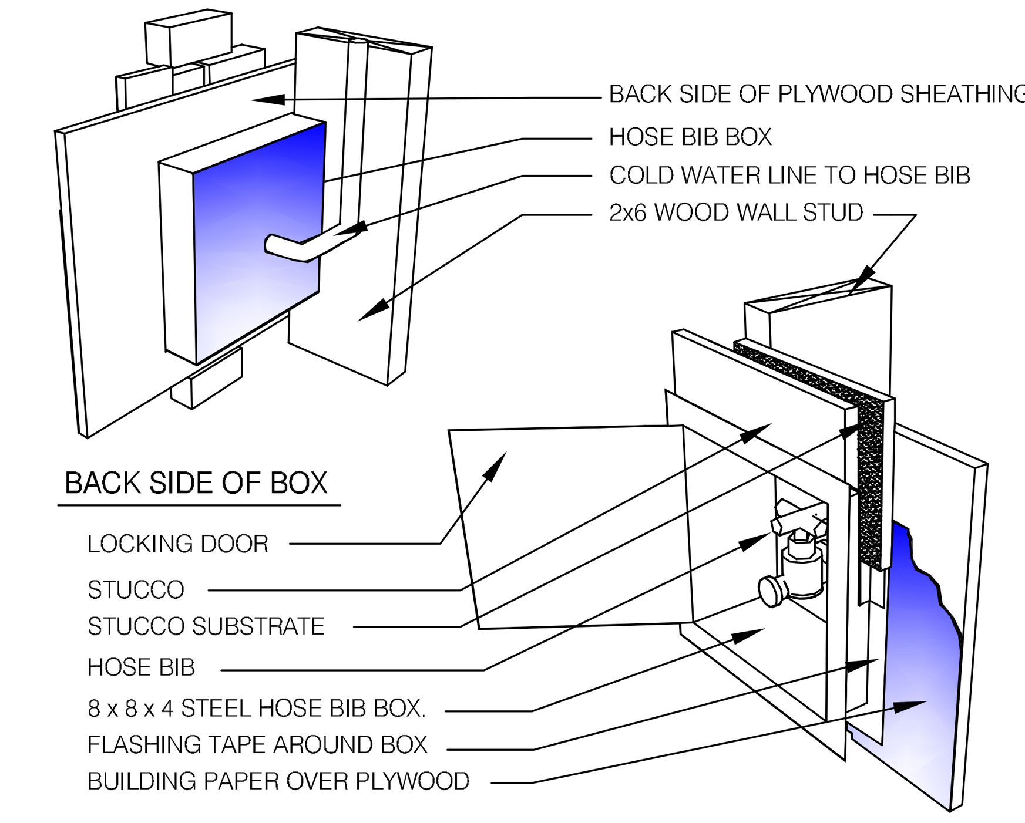
NOTE:
E.I.F.S. DETAILS ARE INTENDED TO BE GENERIC. MANUFACTURER'S DETAILS AND RECOMMENDATIONS SHOULD BE FOLLOWED. REFER TO SECTION 07240 OF THE SPECIFICATIONS MANUAL.

E.I.F.S FLASHING AT TOP OF BREAK METAL 12

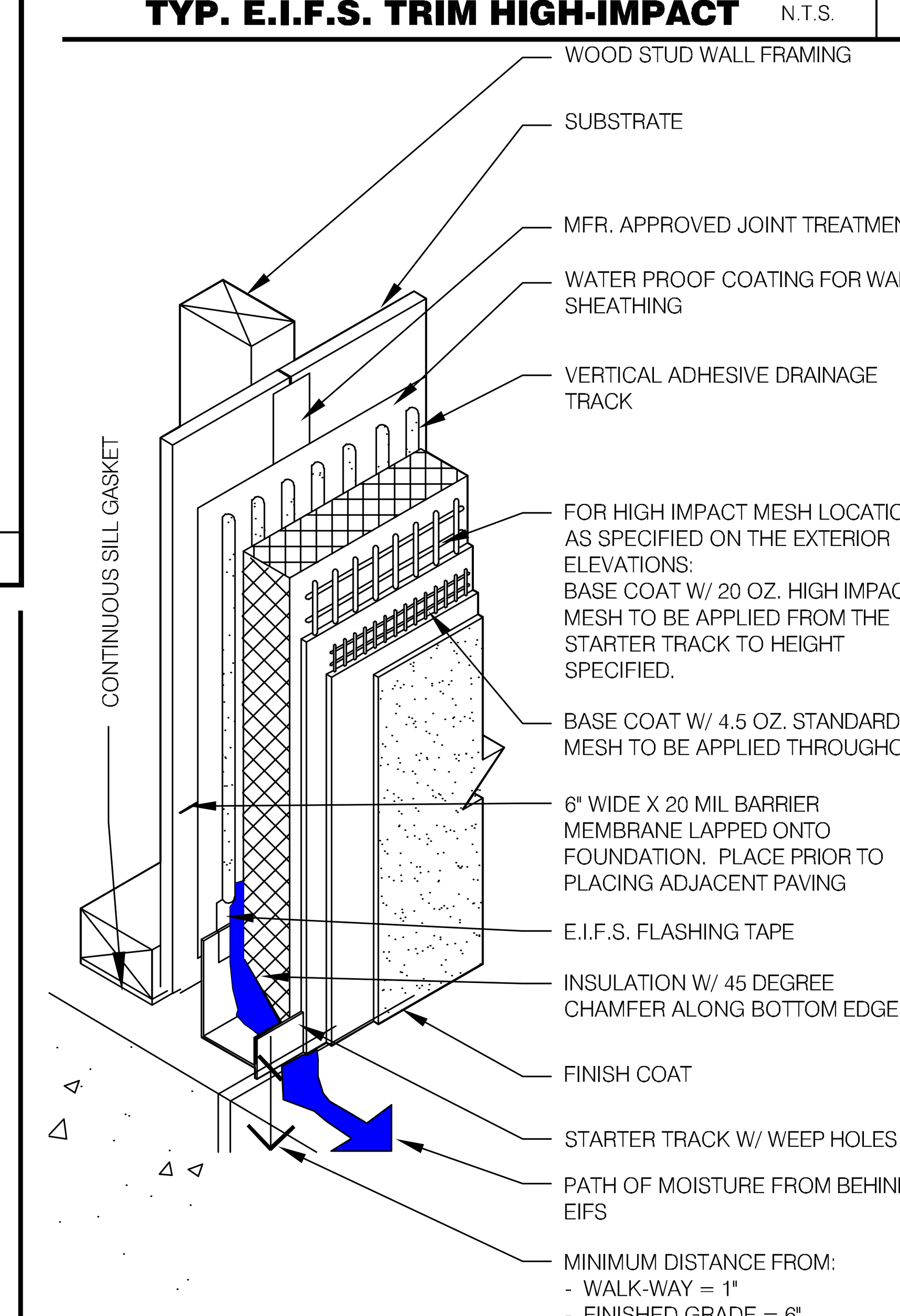


E.I.F.S. TO BASE FLASHING N.T.S. 7

NOTE: HOSE BIB BOX SHALL BE ACUDOR-ARVB OR EQUAL



HOSE BIB BOX N.T.S. 8



TYP. E.I.F.S. BASE TERMINATION N.T.S. 4

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REGISTERED ARCHITECT No. 00920072 STATE OF INDIANA
8/10/20

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL

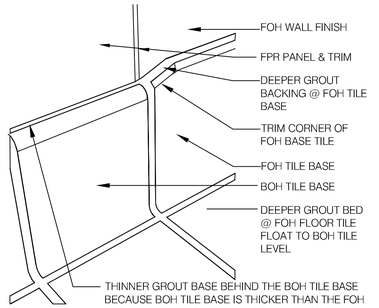
EXPLORER LITE
MEDIUM40

CONSTRUCTION DETAILS WALL

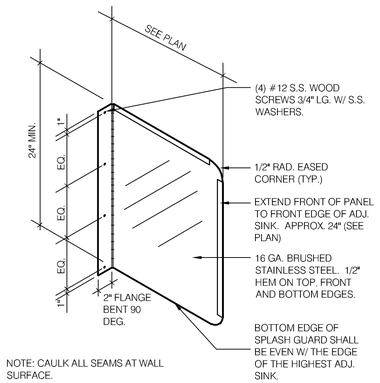
A6.2

6/29/20

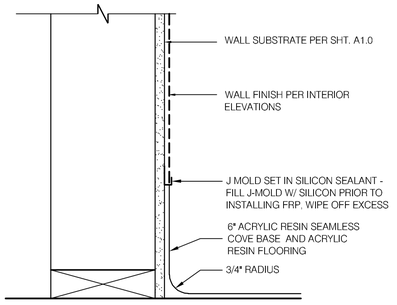
NOT USED N.T.S. **17**



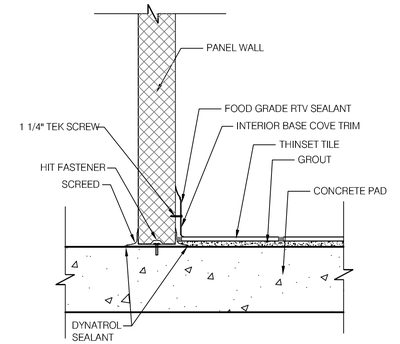
TILE BASE TRANSITION **13**



SPLASH GUARD 1" = 1'-0" **9**



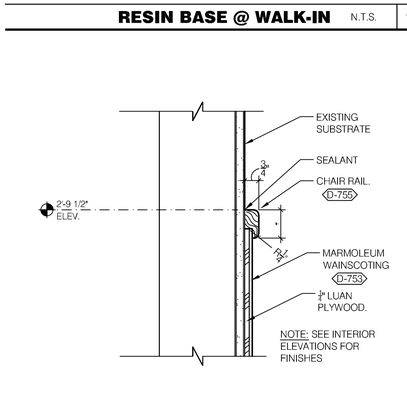
RESIN BASE @ INT. WALL 3" = 1'-0" **5**



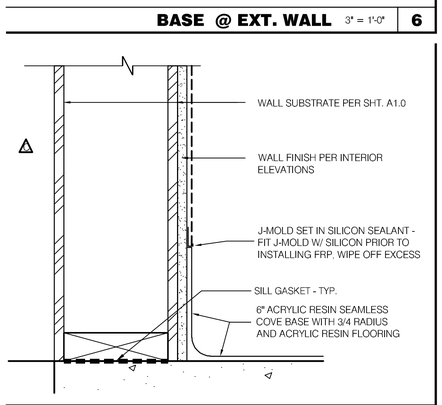
WALK-IN TILE/BASE 1-1/2" = 1'-0" **1**

NOT USED N.T.S. **18**

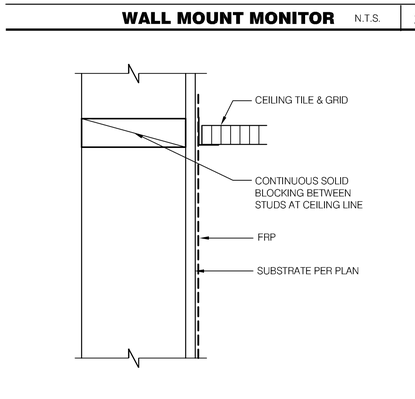
RETHERMALIZER RAIL DETAIL N.T.S. **14**



RESIN BASE @ WALK-IN N.T.S. **10**

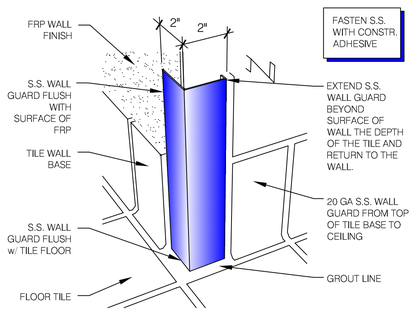


BASE @ EXT. WALL 3" = 1'-0" **6**



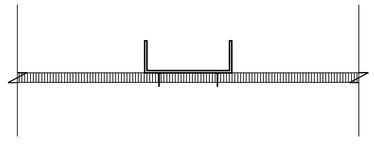
WALL MOUNT MONITOR N.T.S. **2**

NOT USED N.T.S. **19**



NOTE: THIS DETAIL SHOW A 90 DEGREE CORNER. ADAPT THIS DETAIL AND APPLY WHERE WALLS EXTEND INTO SPACE.

S.S. CORNER & END WALL GUARD N.T.S. **19**



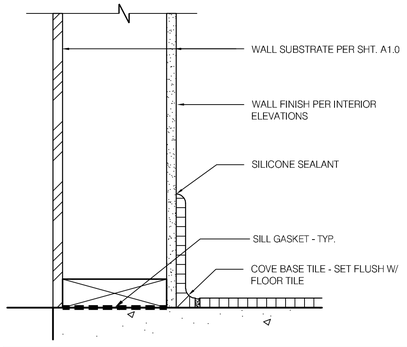
RETHERMALIZER RAIL @ FLOOR N.T.S. **15**

CHAIR RAIL DETAIL 3" = 1'-0" **11**

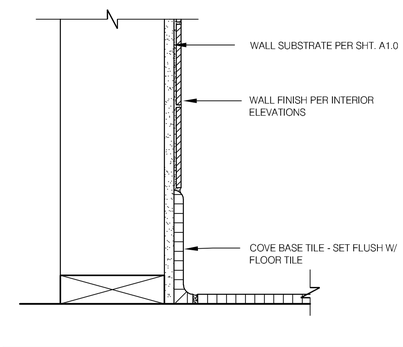
RESIN BASE @ EXT. WALL 3" = 1'-0" **7**

KITCHEN FINISH @ CEILING 3"= 1'-0" **3**

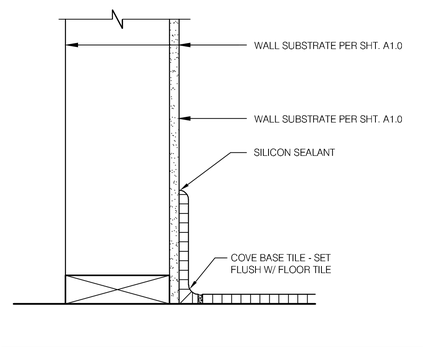
NOT USED **20**



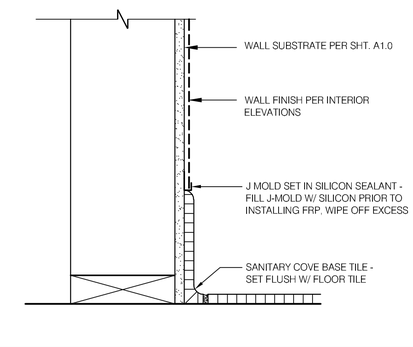
BASE @ DINING EXT. SIDE WALLS 3"= 1'-0" **16**



BASE IN RESTROOM 3" = 1'-0" **12**



BASE @ DINING ROOM INT. WALL 3"= 1'-0" **8**



KITCHEN FINISH @ TILE BASE 3"= 1'-0" **4**

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RICK J. [illegible]
No. 00920072
STATE OF INDIANA
ARCHITECT
8/10/20

⚠1 OWN/STATE COMMENTS 08.10.20
⚠
⚠
⚠
⚠

CONTRACT DATE: 8/26/19
BUILDING TYPE: EXP. LITE MED40
PLAN VERSION: MARCH 2018
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 314007
STORE NUMBER: TBD

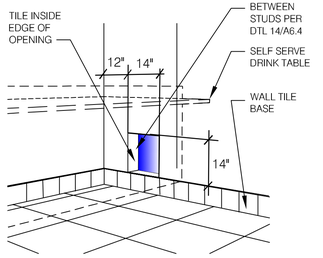
TACO BELL
⚠1 3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

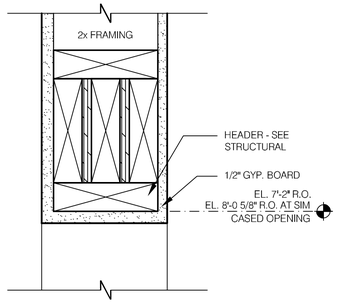
FINISH DETAILS

A6.3

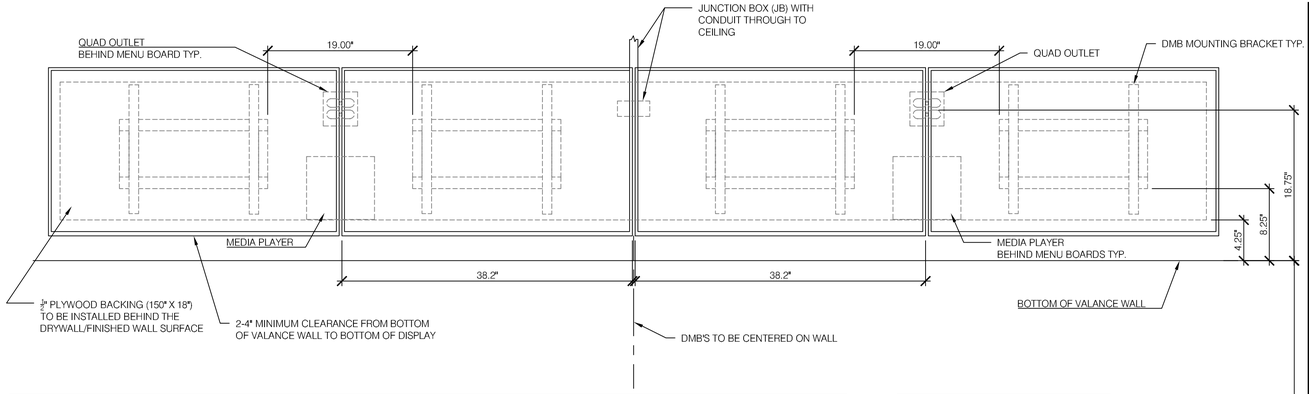
6/29/20



WALL PASS THRU NTS | **11**



CASED OPENING DETAIL 3" = 1'-0" | **7**



NOTES:

1. EC/GC TO INSTALL A TOTAL OS (4) IG5262 DUPLEX OUTLETS IN (2) QUAD BOXES ON FRONT OF VALANCE WALL AS SHOWN. OUTLETS TO BE ORANGE AND STRAIGHT BLADE.
2. EC/GC TO EVALUATE VALANCE WALL STRUCTURE TO ENSURE ADEQUATE SUPPORT OF DIGITAL MENU BOARDS EQUIPMENT EC/GC TO INSTALL ADDITIONAL BACKING MATERIALS (AS REFERENCED ON DRAWINGS) AS NEEDED TO ENSURE ADEQUATE SUPPORT OF DIGITAL MENU BOARDS
3. EC/GC TO INSTALL (1) DATA JUNCTION (JB) IN VALANCE WALL AS SHOWN. CONDUIT TERMINATED ABOVE CEILING TO HAVE BUSHING.
4. EC/GC TO FUN (3) CAT6 LINES FROM NETWORK SWITCH TO DATA JUNCTION BOX. CAT6 LINES SHOULD HAVE BOTH PROPERLY TERMINATED WITH RJ-45 CONNECTORS. EXCESS CAT6 CABLE TO BE COILED INTO SERVICE LOOPS AT EACH END AND LEFT ACCESSIBLE FOR DMB INSTALL TEA. CAT6 TO BE RUN IN ACCORDANCE WITH ALL LOCAL MUNICIPALITY CODE REQUIREMENTS.
5. EC/GC SHALL ACQUIRE AND SECURE NY/ALL REQUIRED PERMITTING FOR THE WORK MENTIONED ABOVE PER MUNICIPALITY CODE REQUIREMENTS.
6. DRAWING PROVIDED IS FOR INSTALLATION OF DMB EQUIPMENT ONLY. NOT TO BE USED FOR ARCHITECTURAL PURPOSES. IF PLACEMENT OF REQUIRED ELEMENTS CANNOT BE MET AND WILL EXCEED A 3IN DEVIATION. STRATACACHE MUST BE NOTIFIES IMMEDIATELY.

VALANCE WALL REQUIREMENTS
26.2" H x 156.8" L (MINIMUM)

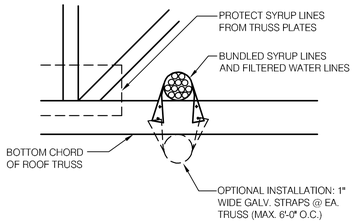
IF YOUR VALANCE WALL DOES NOT MEET THESE REQUIREMENTS PLEASE NOTIFY STRATACACHE IMMEDIATELY

JB = JUNCTION BOX
GC = GENERAL CONTRACTOR
EC = ELECTRICAL CONTRACTOR

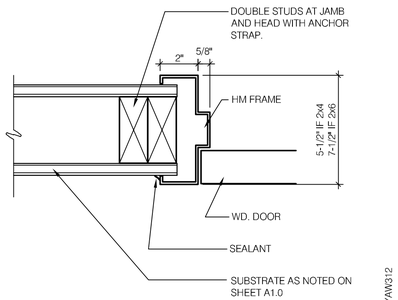
ELECTRICAL SCHEDULE

QTY	DESCRIPTION	VOLT/PH	BRK SIZE	COND/WIRE	PNL/CCT	RECP TYPE	HGT AFF	REQUIREMENT & REMARKS
4	MENUE BOARD - DIGITAL & MEDIA PLAYER	120/1 ISOLATED	20A	———	———	(4) IG5262	SEE PLAN	SEE LAYOUT AND NOTES

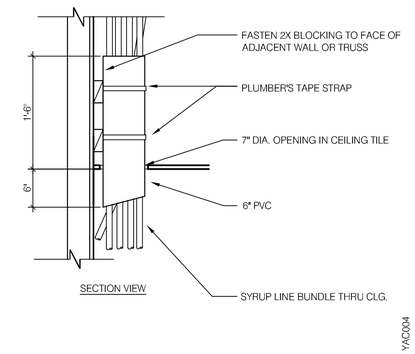
WALL MOUNTED DMB DETAIL N.T.S. | **1**



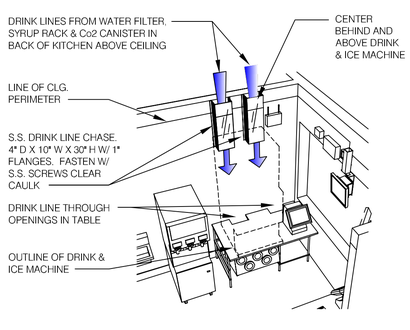
SYRUP LINE IN CEILING N.T.S. | **17**



JAMB @ H.M. DOOR 3" = 1'-0" | **10**

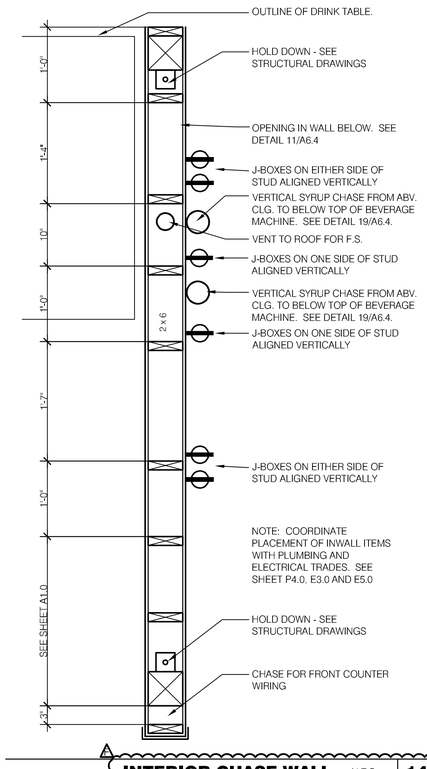


SYRUP BUNDLE CLG. PENETRATION N.T.S. | **18**

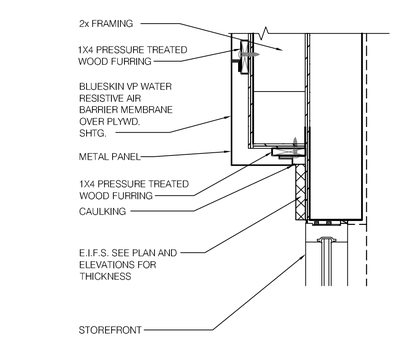


NOTE: SEE DETAIL 11/P6.0 DRINK SYSTEM SCHEMATIC & DETAIL 12/P6.0 FOR DRINK LINES

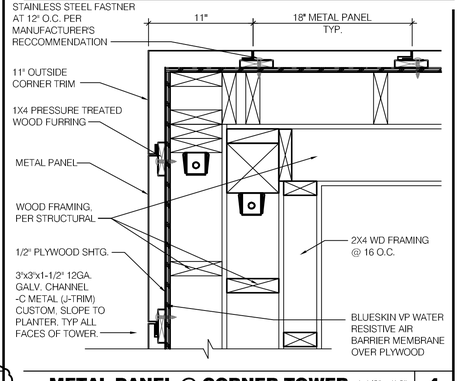
SYRUP CHASE ON WALL N.T.S. | **19**



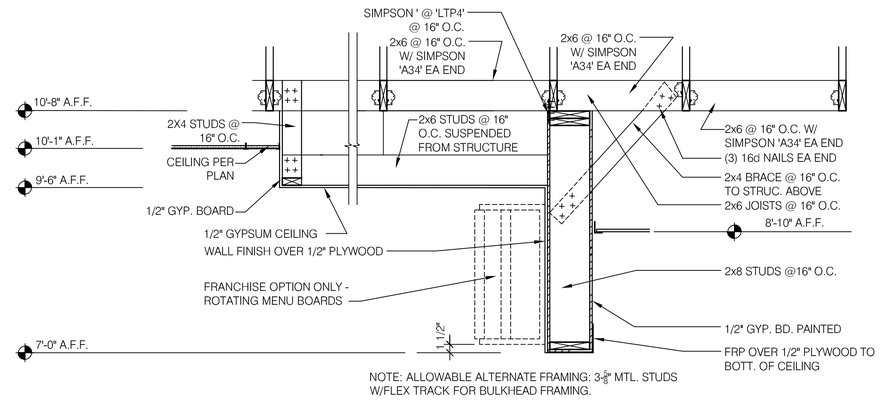
INTERIOR CHASE WALL N.T.S. | **14**



FINISH TRASITION AT TOWER 1 1/2" = 1'-0" | **3**



METAL PANEL @ CORNER TOWER 1 1/2"=1'-0" | **4**



NOTE: ALLOWABLE ALTERNATE FRAMING: 3⅝" MTL. STUDS W/FLEX TRACK FOR BULKHEAD FRAMING.

MENU BOARD/SOFFIT SECTION 3/4" = 1'-0" | **2**

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RICK J. DICKSON
No. 00920072
STATE OF INDIANA
ARCHITECT
8/10/20

1 OWN/STATE COMMENTS 08.10.20

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

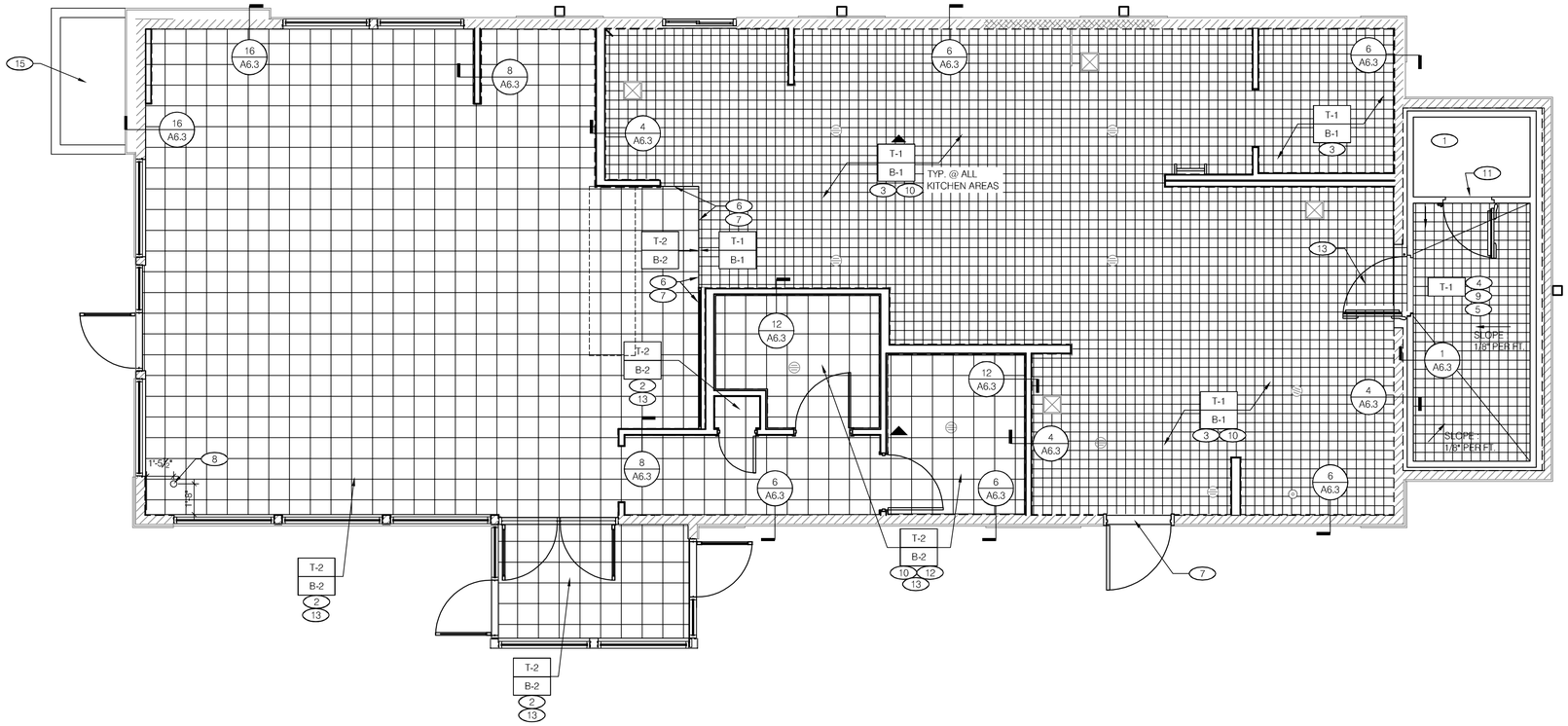
TACO BELL
1 3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

CONSTRUCTION DETAILS INTERIOR

A6.4

6/29/20



12 11 10 9 8 7 6 5 4 3 2 1

S

FLOOR FINISH PLAN 1/4"=1'-0" | **A**

NOT USED | **F**

A. ▭ DENOTES FINISH MATERIAL. REFER TO SHT A7.2 FOR FINISHES.

B. TILE JOINTS (U.O.N.):
   1. QUARRY FLOOR TILE : 1/4"
   2. PORCELAIN FLOOR TILE : 3/16"
   3. GLAZED WALL TILE : 1/8"
   4. BASE, TRIM AND ACCESSORIES : MATCH ADJOINING TILE UNITS

C. TILE INSTALLATIONS REQUIRE MANUFACTURERS STANDARD MOLDED CORNERS AT BOTH INSIDE AND OUTSIDE CORNERS.

D. ALL BASE TILE SHALL BE SANITARY COVE STYLE WITH 3/8" MIN RADIUS UNLESS NOTED OTHERWISE.

E. SEE SCOPE OF WORK SHEETS FOR RESPONSIBILITIES.

F. PROVIDE CLEAR SILICONE CAULK WHERE FRP STOPS AT TOP OF COVE BASE.

G. TILE CHIPPING AROUND CORE DRILL HOLES FOR SEATING FIXTURE WILL NOT BE ACCEPTED.

FINISH NOTES | **D**

(1) FACTORY FLOOR FINISH (GALV STL) W/ INTEGRAL COVE BASE

(2) 6" COVE TILE BASE. SEE DETAILS 8/A6.3 (INTERIOR) AND 16/A6.3 (EXTERIOR) FOR INSTALLATION.

(3) 6" SANITARY COVE TILE BASE. SEE DETAILS 4/A6.3 (INTERIOR) AND 6/A6.3 (EXTERIOR).

(4) PROVIDE FLOOR TILE INSIDE WALK-IN COOLER (NO TILE OR BASE IN FREEZER). FLOAT FLOOR TILE IN COOLERS TO DRAIN TO KITCHEN. COORD. WITH COOLER WALL CONFIGURATION.

(5) NO BASE TILE BEHIND (W-059) WALK-IN COOLER/FREEZER.

(6) ALIGN FLOOR TILE TRANSITION WITH FACE OF WALL.

(7) FLOAT FLOOR TILE FOR FLUSH TRANSITION.

(8) START POINT FOR FLOOR TILE.

(9) METAL BASE IN COOLER; SEE SCOPE OF WORK. SEE DETAIL 1/A6.3.

(10) REFER TO STRUCT DRAWINGS FOR CONC FLOOR SLOPES AROUND FLOOR DRAINS.

(11) STEP-UP AT FREEZER TRANSITION.

(12) SANITARY TILE BASE IN RESTROOMS. SEE DETAIL 12/A6.3 FOR INSTALLATION.

(13) INSTALL FLOOR TILE WITH OFFSET NO MORE THAN 33% OR INSTALL IN A STRAIGHT STACK BOND.

(14) CONCRETE PATIO - SEE CIVIL DRAWINGS

(15) LANDSCAPE AREA

KEY NOTES | **B**

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REGISTERED ARCHITECT
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△
△
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TACO BELL
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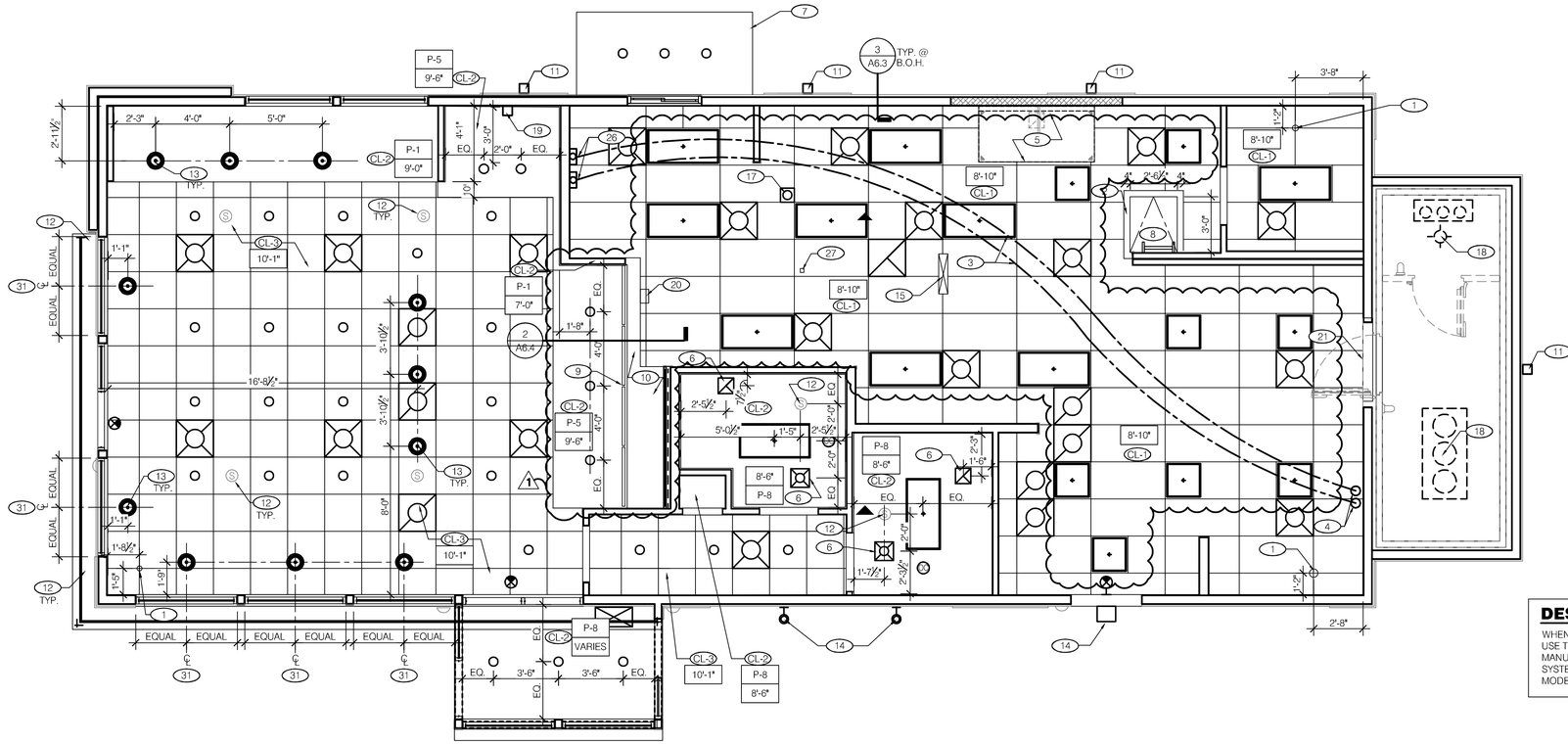
TACO BELL
EXPLORER LITE
MEDIUM40

FLOOR FINISH PLAN

A7.0

6/29/20



DESIGNER NOTE:

WHEN A FIRE ALARM SYSTEM IS REQUIRED BY THE AHJ USE THE FOLLOWING:
MANUFACTURER: HONEYWELL
SYSTEM: SILENT KNIGHT FARENHYT
MODEL: IFP-100

NOTE: VESTIBULE OPTION IS SITE SPECIFIC INDEPENDENT OF PATIO OPTION

12 11 10 9 8 7 6 5 4 3 2 1

REFLECTED CEILING PLAN 1/4"=1'-0" A

NOT USED 1/4"=1'-0" F

CEILING SYMBOL LEGEND E

- 2'-0" x 2'-0" LED TROFFER
- 2'-0" x 4'-0" LED LIGHT FIXTURE
- DOWNLIGHT @ WALK-IN (BY WALK-IN MFR.)
- PENDANT FIXTURE
- DOWNLIGHT - CENTER ON CEILING TILE
- EMERGENCY LIGHTS
- EXIT LIGHT (WALL MOUNTED)
- EXIT LIGHT (CEILING MOUNTED)
- EXTERIOR WALL FIXTURE
- SPEAKER - CENTER ON CEILING TILE
- 12" EXHAUST FAN
- HVAC RETURN GRILLE
- HVAC SUPPLY DIFFUSER
- BACK DOOR SECURITY STROBE LIGHT
- OCCUPANCY SENSOR, CEILING MOUNTED
- PATIO HEATER - SEE PLUMBING DRAWINGS

REFLECTED CEILING PLAN NOTES D

DIMENSIONS:
A. ALL DIMENSIONS ARE TO FACE OF FINISH U.O.N.

CEILING FINISHES:
A. REFER TO ROOM FINISH SCHEDULE (SHT A7.2) FOR CLG. FINISHES.

SUSPENDED CEILING:
A. ACOUSTICAL PANEL INSTALLATION: INSTALL ACOUSTICAL PANELS WITH EDGES IN CLOSE CONTACT WITH METAL SUPPORTS AND IN TRUE ALIGNMENT.
B. ALLOWABLE VARIATIONS FROM FLAT AND LEVEL SURFACE: 1/8" IN 10'-0" MAX.
C. ALLOWABLE VARIATIONS FROM PLUMB OF GRID MEMBERS: AS CAUSED BY ECCENTRIC LOADS, 2° MAX.
D. INSTALL SYSTEM AFTER MAJOR ABOVE CLG. WORK IS COMPLETE. COORD LOCATIONS OF HANGERS WITH RELATED WORK.
E. SEE SPECS FOR ADDITIONAL INFORMATION.

GYPSUM BOARD CEILING:
A. SUBSTRATE SHALL BE 1/2" THICK GYP BD.
B. ACOUSTICAL SEALANT: APPLY TO GYP. BD. PANELS AS INDICATED IN SPECS. GYP. BD. FINISHING AND DECORATING: REFER TO DWGS FOR TEXTURE AND FINISHES.

ELECTRICAL:
A. SEE ELECT. DWGS. FOR FIXTURE SCHED.

KEY NOTES B

1. CEILING GRID STARTING POINT.
2. BULKHEAD @ 8'-0" A.F.F.
3. NON-INSULATED BUNDLED SYRUP LINES FOR DRINK SYSTEM. SEE SCOPE OF WORK. SEE DETAIL 17/A6.4.
4. 6" DIA PVC STUB THROUGH CEILING. SEE DETAIL 18/A6.4.
5. HOOD.
6. FOR ROUGH FRAMING OPENINGS SEE AIR DEVICE SCHED. (TYP. AT RESTROOMS).
7. DRIVE THRU CANOPY.
8. ROOF HATCH. SEE 7/A6.0.
9. MENU BOARD. SEE SCOPE OF WORK.
10. MENU BOARD BULKHEAD - BOTTOM OF SOFFIT AT 7'-0" A.F.F. / SEE DETAIL 1/A6.4.
11. VERTICAL DOWNSPOUT.
12. SPEAKER. CENTER ON CEILING TILE.
13. PENDANT LTG.
14. EXTERIOR WALL LIGHT FIXTURES, SEE ELEVATIONS AND ELECT. DWGS. ALIGN BOTTOM OF LIGHT FIXTURE MOUNTING PLATE WITH EIFS REVEAL / CHANGE IN EIFS THICKNESS.
15. UTILITY CHASE BY 3RD PARTY VENDOR TO CEILING.
16. EMERGENCY DUAL HEAD FIXTURE. SEE ELECT. DWGS.
17. SECURITY STROBE LIGHT. REFER TO ELECT. DWGS.
18. FAN COIL FOR WALK-IN.
19. 6" x 6" 18 GA. STAINLESS STEEL CHASE ALONG WALL FOR ICE MACHINE REFRIGERANT LINES: 6" ABOVE CEILING TO TOP OF ICE MACHINE.
20. ALERT LIGHT BOX FOR 3-COMP POWER SOAK MOUNTED AT C.L. OF BOX 7-11" AFF
21. 30" X 30" ACCESS OPENING IN REAR WALL ABOVE CEILING. FINISH WITH GYP. BD.
22. EXPOSED WOOD RAFTERS.
23. PATIO ROOF.
24. ALUMINUM GUTTER.
25. PRE-WEATHERED GALVALUM METAL AWNING.
26. STAINLESS STEEL SYRUP CHASE ON WALL. SEE DETAIL 19/A6.4.
27. WATER INLET CHASE FOR CHEESE MELTER SCREWED TO HEATED AIR SCREEN
28. PATIO ROOF RAFTERS. SEE ELEVATION FOR FINISH.
29. EXPOSED DUCTWORK WITH EXPOSED GALVANIZED FINISH.
30. CEILING MOUNTED SPACE HEATER. REFER TO P1.0 FOR SCHEDULE. REFER PLUMBING AND ELECTRICAL DWGS.
31. CENTER LIGHT FIXTURE ON WINDOW.

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1 OWN/STATE COMMENTS 08.10.20
2
3
4
5

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1 TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

REFLECTED CEILING PLAN

A7.1

6/29/20

FLOORING

SYM	DESCRIPTION	ALTERNATE / NOTE
T-1	MFR.: CREATIVE MATERIALS CORP. TYPE: COLOR: QUARRY PURITAN GREY # 507 SIZE: 6" X 6" NATURAL GROUT: MAPEI KERAPOXY IEG CQ WITH PART C GREY NOTE: BOH, KITCHEN	MFR.: DAL TILE TYPE: QUARRY #0Q42 NON ABRASIVE COLOR: ARID GRAY SIZE: 6"x6" GROUT: POLYBLEND CHARCOAL GROUT
T-2	MFR.: CREATIVE MATERIALS CORP. TYPE: CMC XTREME COLOR: MUD SIZE: 18"x18" NATURAL GROUT: MAPEI ULTRACOLOR PLUS #11 SAHARA BEIGE NOTE: DINING ROOM, ALCOVE, RESTROOMS	
T-2A	MFR.: CREATIVE MATERIALS CORPORATION TYPE: CMC SKYLINE COLOR: STORM SIZE: 18"x18" JOINT FILLER: CMC ULTRA COLOR PLUS #11 SAHARA	ONLY TO BE USED AS ALTERNATE FOR RESTROOM FLOOR TILE.
C-2	LOCATION: PATIO CONCRETE SLAB TYPE: CONCRETE WITH LINEAR SINGLE DIRECTION BROOM FINISH COLOR: MATCH DINING FLOOR COLOR	
F-1	MFR.: SILIKAL TYPE: ACRYLIC RESIN COLOR: QUARTZ BLEND #4	OPTION FOR BACK OF HOUSE AREAS

WALL BASE

SYM	DESCRIPTION	ALTERNATE / NOTE
B-1	MFR.: CREATIVE MATERIALS CORP. TYPE: COLOR: QUARRY GREY # 507 SIZE: 6" X 6" COVE BASE GROUT: MAPEI KERAPOXY IEG CQ WITH PART C GREY NOTE: BOH, KITCHEN	MFR.: AMERICAN OLEAN TYPE: QUARRY #Q01 COLOR: GREY TO MATCH T-1 SIZE: 5" x 6" GROUT: #95 SABLE BROWN - NON EPOXY
B-2	MFR.: CREATIVE MATERIALS CORP. TYPE: CMC XTREME COLOR: MUD SIZE: 6"x12" COVE BASE GROUT: MAPEI ULTRACOLOR PLUS #11 SAHARA BEIGE NOTE: DINING ROOM, ALCOVE, RESTROOMS	
B-3	MFR.: SILIKAL TYPE: ACRYLIC RESIN COLOR: QUARTZ BLEND #3 90% Light Gray, 10% Black	TO BE USED WITH F-1 FLOORING

WALL FINISHES

SYM	DESCRIPTION	ALTERNATE / NOTES.
P-1	MFR.: SHERWIN WILLIAMS TYPE: SATIN / EGGSHELL LATEX COLOR: SW7020 BLACK FOX PRIMER: #023 (WHITE) FRESH START 100% ACRYLIC	
P-2	MFR.: NOT USED TYPE: - COLOR: - PRIMER: -	
P-3	MFR.: NOT USED TYPE: COLOR: PRIMER:	
P-4	MFR.: NOT USED TYPE: - COLOR: - PRIMER: -	
P-5	MFR.: SHERWIN WILLIAMS TYPE: SATIN / EGGSHELL LATEX COLOR: SW6098 PACER WHITE PRIMER: #023 (WHITE) FRESH START 100% ACRYLIC	
P-8	MFR.: SHERWIN WILLIAMS TYPE: SEMI-GLOSS COLOR: SW7002 "DOWNY" PRIMER: #023 (WHITE) FRESH START 100% ACRYLIC	
P-9	MFR.: NOT USED TYPE: COLOR: PRIMER:	
WF-1	MFR.: REPLICATIONS UNLIMITED TYPE: URESTONE 5/8" THICK COLOR: ROUGH BRICK PATTERN RUSTIC RED PRIMER: N/A (VERIFY WITH OWNER PRIOR ORDERING)	
TM-2	MFR.: SCHLUTER TYPE: 1/2"X1/2" STAINLESS STEEL CORNER TRIM COLOR: CLEAR ALUMINUM (BY G.C.)	
WT-1	MFR.: CREATIVE MATERIALS CORP. TYPE: CMC LINES COLOR: OYSTER SIZE: 12"X24" NATURAL GROUT: MAPEI ULTRA COLOR PLUS # 93 WARM GREY NOTE: RESTROOM WALLS, TO BE INSTALLED WITH GRAIN HORIZONTAL, USE RONDEC SATIN ANODIZED ALUMINUM RO 100 AE FOR OUTSIDE CORNERS	WT-1 MFR.: DALTILE TYPE: TIMBERGLEN COLOR: DUNE P620 SIZE: 6"X24"X3/8" AT RESTROOMS GROUT: MAPEI #14 BISCUIT NOTE: TILE TO BE INSTALLED WITH THE GRAIN HORIZONTAL
WT-3	MFR.: CREATIVE MATERIALS CORPORATION TYPE: CMC MAIOLICA COLOR: AQUA MARINE SIZE: 4x12 GLOSSY GROUT: MAPEI ULTRACOLOR PLUS #27 SILVER NOTE: KITCHEN ACCENT WALL TO BE INSTALLED IN A RUNNING BOND PATTERN, USE RONDEC SATIN ANODIZED ALUMINUM RO 60 AE FOR OUTSIDE CORNERS	

METAL TRANSITIONS

SYM	DESCRIPTION	ALTERNATE / NOTE
MT-1	MFR.: SCHLUTER TYPE: SCHLUTER DILEX-AHKA80AE COLOR: AE: SATIN ANODIZED ALUMINUM SIZE: 3/8" profile	
MT-3	MFR.: SCHLUTER TYPE: RENO-U COLOR: ANODIZE ALUMINUM SIZE:	

LAMINATES

SYM	DESCRIPTION	ALTERNATE/ NOTE
FRP-1	MFR.: MARLITE TYPE: FIBERGLASS REINFORCED PANEL (GREEN) COLOR: S-5373 SMOOTH FINISH FRP 5373 TB GRAY NOTE: CA ONLY. FRP-S100 WHITE SMOOTH FINISH S/2/S 4'X 9'X .90	ANODIZED CORNER GUARDS AND J-MOLDS BY NATIONAL METAL SHAPES (STAINLESS). INTERMEDIATE VERTICAL TRIM BY DECOR VENDORS PAINTED SAME COLOR AS WALL PANEL.
WC-1	MFR.: WOLF GORDON TYPE: RAMPART HIGH IMPACT WALL COVERING COLOR: FOUNDATION; ONYX GDH 12172612 NOTE: RAILROAD INSTALLATION: THERE SHOULD BE NO SEAMS ALONG THE WALLS	

MILLWORK

SYM	DESCRIPTION	ALTERNATE / NOTE
S-1	MFR.: WILSONART TYPE: SOLID SURFACE COLOR: AVALANCHE MELANGE 9175ML WHITE WITH BRONZE SPECKLES	
TM-1	MFR.: MINWAX TYPE: CHAIR RAIL COLOR: STAINED MAPLE CLASSIC GRAY STAIN NOTE: APPLY 2 COATS PER MANUFACTURER'S SPECIFICATION	TM-1 MFR.: MILLWORK TYPE: CHAIR RAIL COLOR: PAINTED P-1 1 x 2 SOLID MAPLE

CEILINGS

	DESCRIPTION	ALTERNATE / NOTE
CL-1	MFR.: CERTAINTEED TYPE: VINYLROCK #1140, WASHABLE NON-PERFORATED, 24"x48"X1/2" COLOR: WHITE GRID: WHITE SUSPENSION GRID W/ ALUMINUM FACE NOTE: FLAME SPREAD RATING 0-25, CLASS A	MFR.: US GYPSUM CO. TYPE: CLIMAPLUS LAY-IN CEILING PANEL COLOR: FLAT WHITE #050, VINYL 3270 NOTE: 24"x48" NOTE: SEE SPECIFICATIONS
CL-2	MFR.: TYPE: GYPSUM BOARD COLOR: NOTE: REFER TO A7.1	
CL-3	MFR.: USG SUSPENDED CEILING TILE TYPE: 414, FROST, 24x24x1/2" COLOR: FLAT BLACK #205 GRID: ARMSTRONG PRELUDE XL 15/16" EXPOSED TEE COLOR: PRE-PAINTED BLACK	

DOORS

SYM	DESCRIPTION	ALTERNATE/ NOTE
DL-1	MFR.: WILSONART TYPE: PLASTIC LAMINATE COLOR: 7981-K12, WEAR LANDMARK WOOD	* DOOR EDGES SHALL BE FINISHED SIMILAR TO FACES
DL-3	MFR.: NEVAMAR TYPE: S7027T COLOR: SMOKY WHITE * DOOR EDGES SHALL BE FINISHED SIMILAR TO FACES	ALTERNATE : FORMICA 933-58 MISSION WHITE

ROOM FINISH NOTES — D

1. INSTALL FRP ON KITCHEN SIDE OF SERVING COUNTER WALL.
2. GALV STEEL WALL AND CEILING FINISHES BY WIC / WIF BOX MFR.
3. REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF TILE AND FRP.
4. FOR FINISH LOCATIONS REFER TO:
   SHEETS A4.0 & A4.1 - EXTERIOR ELEVATIONS
   SHEET A7.0 - FLOOR FINISH PLAN
   SHEET A7.1 - REFLECTED CEILING PLAN
   SHEETS A8.0 TO A8.3 - INTERIOR ELEVATIONS
5. APPROVED PAINT MANUFACTURERS:
   PORTER, BENJAMIN MOORE, SHERWIN WILLIAMS, ICI, & PITTSBURGH PAINTS.
   MATCH SPECIFIED SCHEDULE COLORS EXACTLY.
6. ALL PAINTED GYPSUM BOARD SHALL HAVE A LIGHT ORANGE PEEL TEXTURE
7. ALL MORTAR SHALL BE MIXED WITH WHITE SAND TO INSURE A COLOR CONSISTENT TO THE ORIGINAL DESIGN INTENT

CONTACTS — C

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ROOM FINISH SCHEDULE LEGEND — A

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RICK J. GOLIO — No. 00920072 — STATE OF INDIANA — ARCHITECT
8/10/20

⚠ OWN/STATE COMMENTS 08.10.20
⚠
⚠
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SITE NUMBER: 314007
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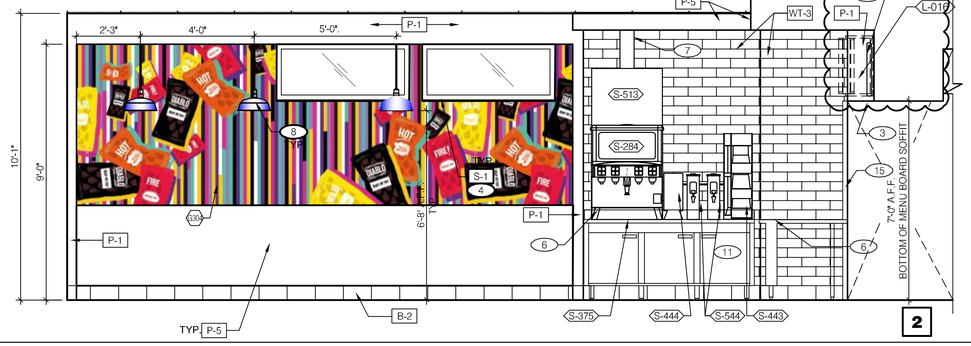
TACO BELL
EXPLORER LITE
MEDIUM40

FINISH SCHEDULE
A7.2

6/29/20



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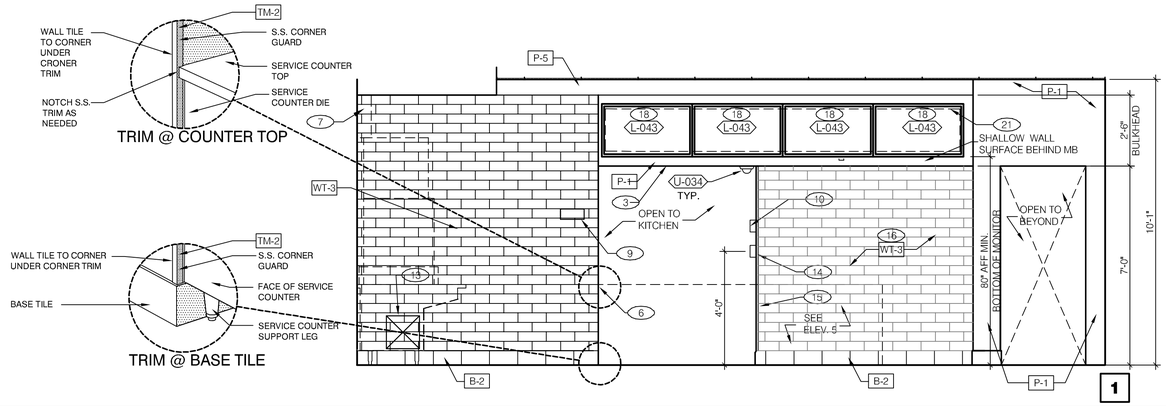

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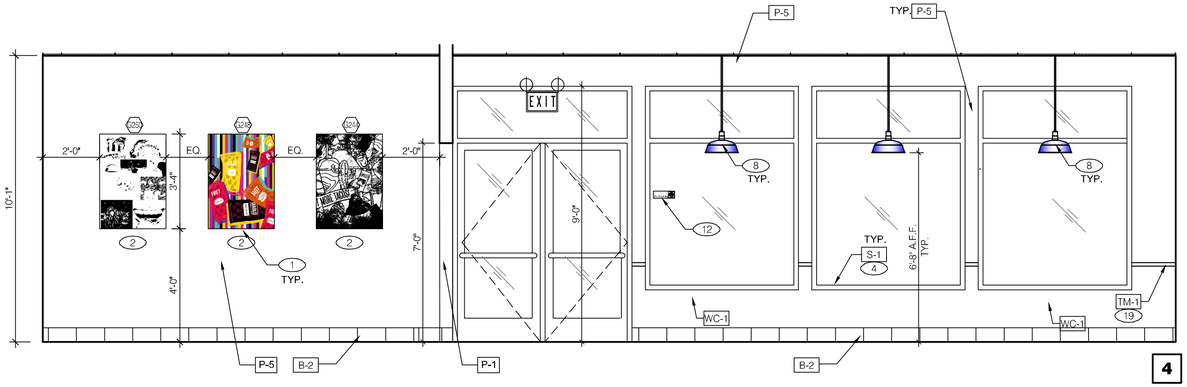
DINING 3/8"=1'-0"



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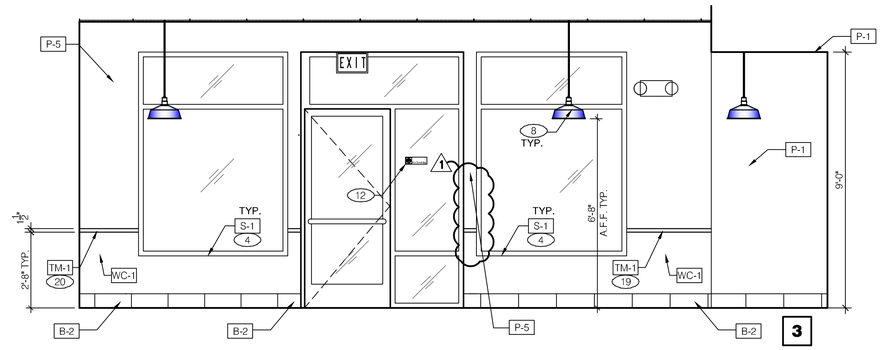
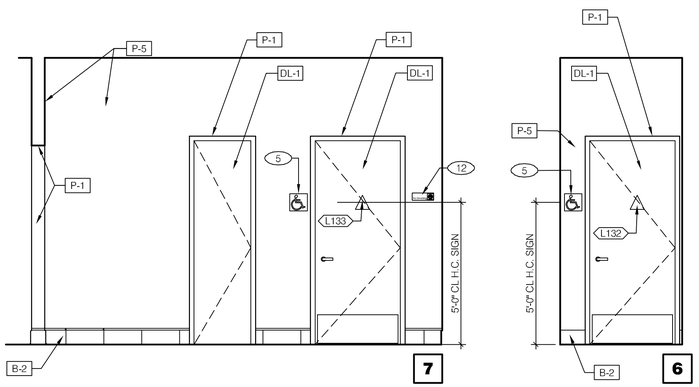


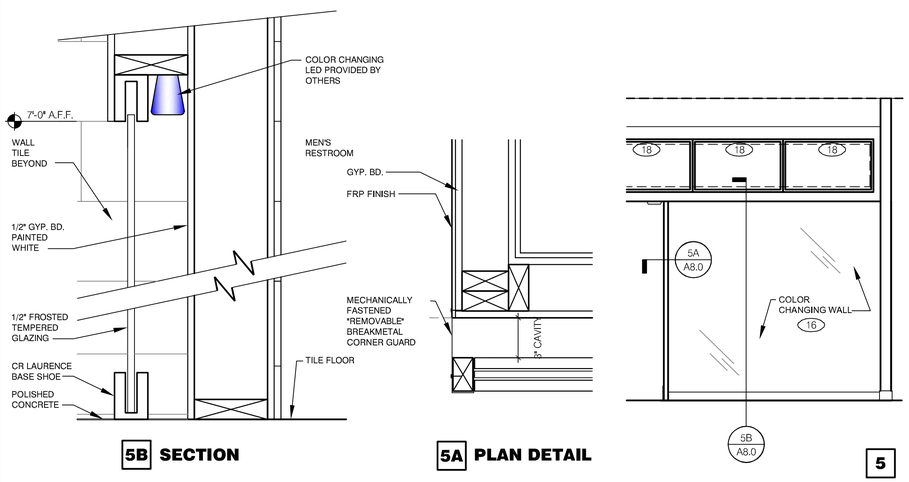
3

DINING 3/8"=1'-0"

DESIGNER NOTE: CALIFORNIA ADA RESTROOM SIGNAGE SIGNS MUST BE 1/4" THICK, AND IN CONTRASTING COLOR TO THE SURFACE ON WHICH THEY ARE INSTALLED.
DOOR: GENDER NEUTRAL SIGN
(E#: E76000974)
WALL SIGN: FAMILY RESTROOM SIGN WITH BRAILLE
(E#: E76000972)



PASSAGE 3/8" = 1'-0"



COLOR CHANGING WALL BEHIND COUNTER 3/8"=1'-0"

1. FOR ARTWORK DESCRIPTION, REFER TO ARTWORK SCHEDULE ON SHEET A2.0.
2. 28"x40" ART PANELS.
3. MENUBOARD BULKHEAD.
4. WINDOW SILL.
5. H.C. SIGNAGE
6. PROVIDE CLEAR SILICONE CAULK WHERE ALL FIXED AND BUILT-IN COUNTERS / EQUIPMENT ABUT WALL SURFACES. WHERE GAP BETWEEN WALL AND COUNTER SPLASH / EQUIPMENT EXCEEDS 1/4", PROVIDE S.S. CLOSURE ANGLE.
7. 6" X6" 18 GAUGE STAINLESS STEEL CHASE.
8. DROP PENDANT LIGHT FIXTURE. SEE SCOPE OF WORK AND SHEET E4.0.
9. "PLEASE ASK IF YOU NEED ASSISTANCE" SIGN. SMALLWARE PACKAGE.
10. TEMPERATURE SENSOR. SEE MECHANICAL DRAWINGS.
11. BOTTOM OF BEVERAGE AND ICE DISPENSING LEVERS SHALL BE NO HIGHER THAN 42" A.F.F.
12. NO SMOKING SIGN.
13. OPENING FINISHED WITH FRP FOR SYRUP TUBES. SEE 11/A6.4 AND SHEET A1.0.
14. SECURITY SYSTEM KEYPAD. SEE E5.0.
15. SS CORNER/ END WALL CHANNEL GUARD. FULL HEIGHT. SEE 19/A6.3 & 5/A8.0.
16. USE WT-3 IF COLOR CHANGING WALL IS NOT USED.
17. NOT USED
18. DIGITAL MENUBOARDS
19. CHAIR RAIL. SEE DETAIL 11/A6.3

KEY NOTES A

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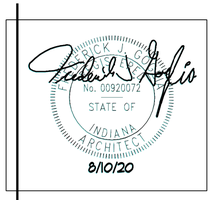


1	OWN/STATE COMMENTS 08.10.20
2	
3	
4	
5	

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

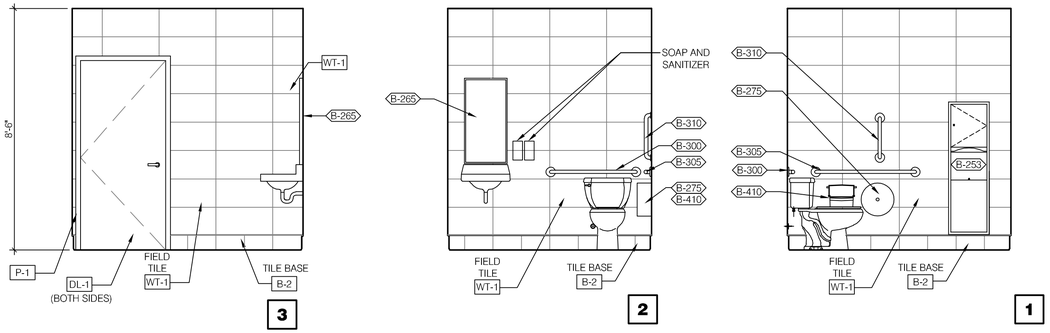
TACO BELL
1 3615 BREMEN HWY
MISHAWAKA, IN 46544

EXPLORER LITE
MEDIUM40

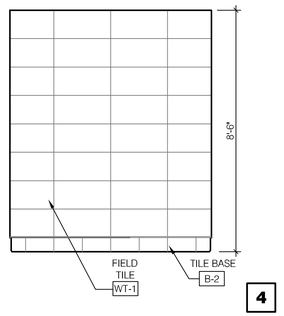
INTERIOR ELEVATIONS DINING ROOM

A8.0

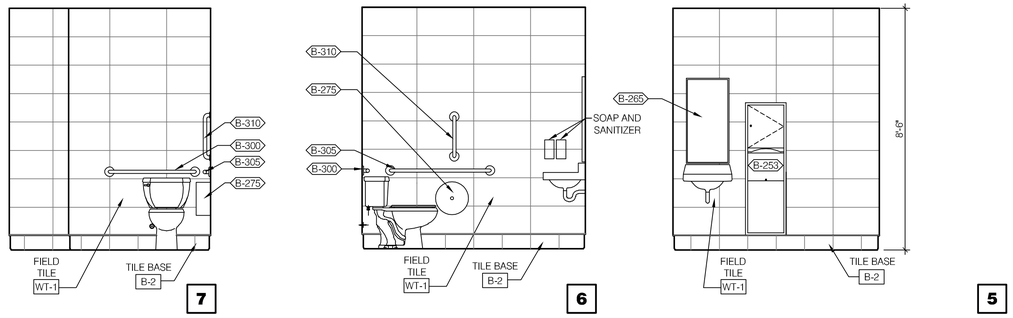
6/29/20



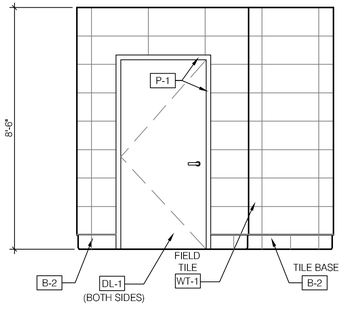
WOMEN'S RESTROOM 3/8"=1'-0"



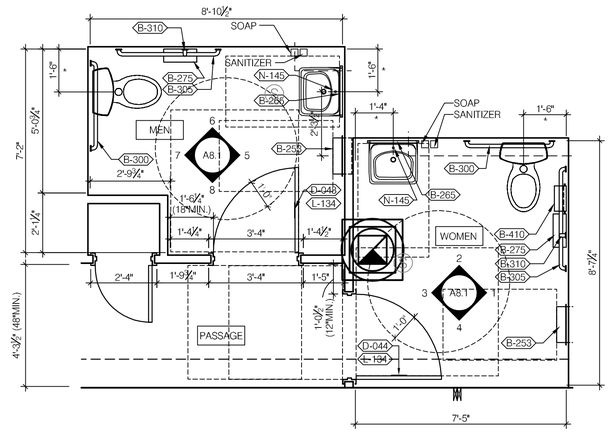
WOMEN'S RESTROOM 3/8"=1'-0"



MEN'S RESTROOM 3/8"=1'-0"



MEN'S RESTROOM 3/8"=1'-0"



A. PROVIDE PROPER 2x BLOCKING AT WALL RECESSED MOUNTED ACCESSORIES.

B. GRAB BARS, FASTENERS AND MOUNTING DEVICES SHALL BE INSTALLED PER ADA REQUIREMENTS. REFER TO SHEET ADA1.0.

C. REFER TO FLOOR PLAN NOTES FOR BLOCKING AND SUBSTRATE NOTES.

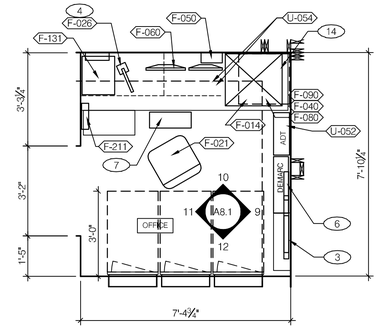
D. REFER TO SHEET ADA1.0 FOR MOUNTING HEIGHTS AND CLEARANCES OF ACCESSORIES AND FIXTURES.

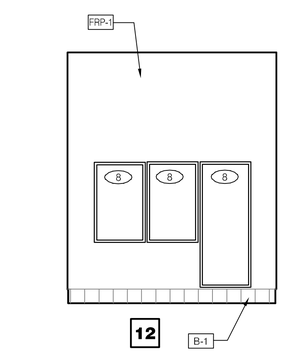
E. ALL DIMENSIONS THIS DRAWING ARE TO FINISH SURFACE.

* ABSOLUTE DIMENSION

DESIGNER NOTE:
REFER TO TACOBELLPLANS.COM/LIBRARY/SIGNS FOR ADDITIONAL RESTROOM SIGN OPTIONS.

ENLARGED RESTROOM / GENERAL NOTES 3/8"=1'-0" | **A**





1. THERMOSTATS
2. NOT USED.
3. TELEPHONE TERMINAL BOARD
4. DESK LAMP.
5. 12" X 12" PHONE DISTRIBUTION BOX: OWNER PROVIDED & INSTALLED.
6. WIRING CABINET BY POS PROVIDER.
7. UNDER COUNTER KEYBOARD TRAY.
8. ELECTRIC PANELS.
9. TACO BELL COMBINED CONTROL BOX - TBCCB ; REF SHEET E6.0
10. NOT USED.
11. SHELF BY G.C.- FINISH WITH PLASTIC LAMINATE DL-3.
12. COUNTER BY G.C. - FINISH WITH PLASTIC LAMINATE DL-3.
13. DUCT SMOKE DETECTOR RESET SWITCH.
14. TECH-IN-A-BOX (WALL MOUNT RACK ENCLOSURE CABINETS): REFER TO E3.1. G.C. TO PROVIDE BLOCKING WHERE REQUIRED.
15. DOOR IS OPTIONAL.

OFFICE PLAN & ELEVATIONS / KEY NOTES 3/8"=1'-0" | **B**

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⚠1	OWN/STATE COMMENTS 08.10.20
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CONTRACT DATE:	8/26/19
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PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
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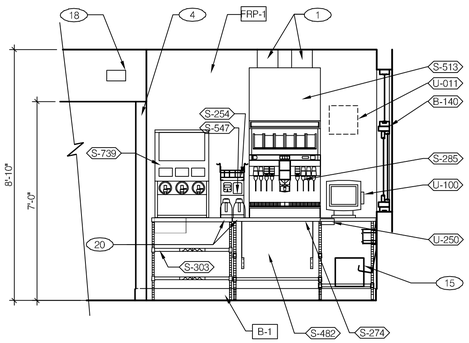
TACO BELL
1
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

INTERIOR ELEV. ENLARGED RESTROOMS & OFFICE PLAN

A8.1

6/29/20



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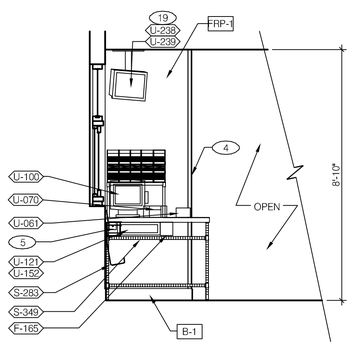
DRIVE-THRU 3/8" = 1'-0"



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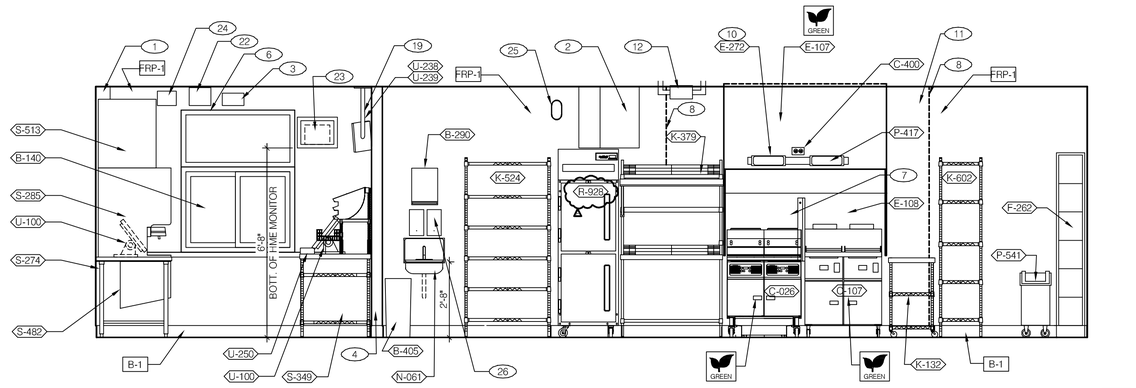
DRIVE-THRU 3/8" = 1'-0"

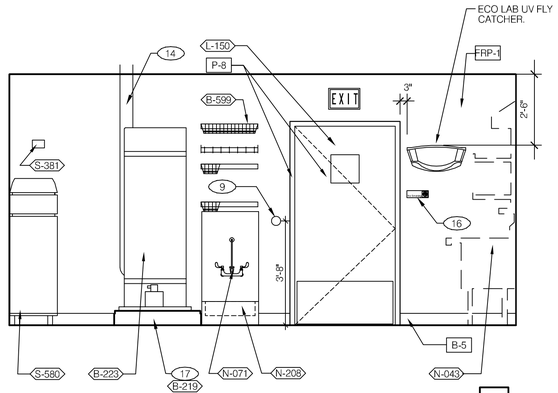


2

DRIVE-THRU 3/8" = 1'-0"

1

TB COOK 3/8" = 1'-0"



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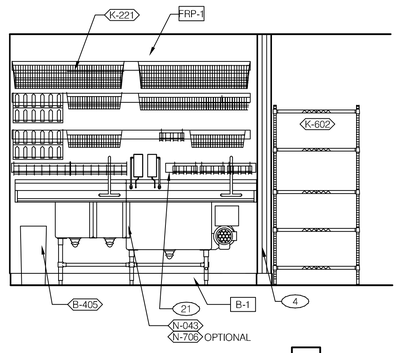
UTILITY 3/8" = 1'-0"



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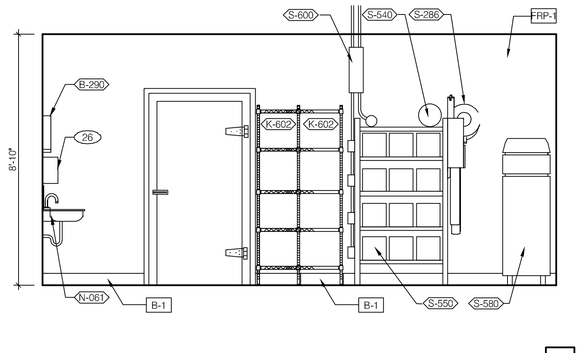
WARE WASHING 3/8" = 1'-0"



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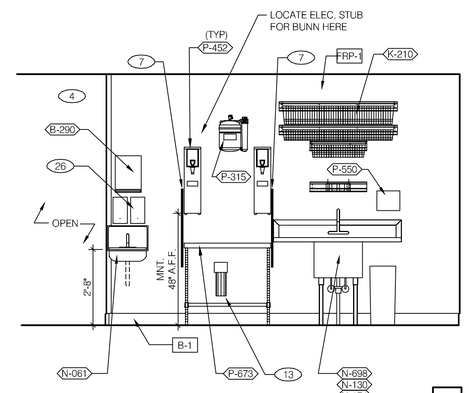
UTILITY 3/8" = 1'-0"



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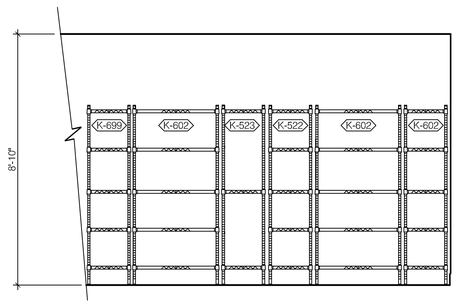
WARE WASHING 3/8" = 1'-0"



9

DRY STORAGE 3/8" = 1'-0"

1. STAINLESS STEEL CHASE FOR SYRUP LINES & ICE MACHINE REFRIGERANT LINES. SEE DETAIL 19/A6.4
2. ANSUL CABINET.
3. DRIVE-THRU TIMER DISPLAY UNIT.
4. SS CORNER / END WALL CHANNEL GUARD. FULL HEIGHT. SEE DETAIL 19/A6.3.
5. HOLD-UP BUTTON.
6. SS CORNER GUARDS AT PERIMETER OF D/T WINDOW. SEE DETAILS 5, 6 & 7/A6.1 AND SCOPE OF WORK FOR RESPONSIBILITIES.
7. SPLASHGUARD. SEE DETAIL 9/A6.3.
8. EDGE OF SS PANEL BEHIND HOOD.
9. ANSUL PULL STATION.
10. J-BOX AND OUTLET INCLUDED WITH HOOD. INSET WITH FLUSH WITH FACE OF HOOD.
11. 20 GA. STAINLESS STEEL PANEL BEHIND HOOD.
12. GAS SHUT-OFF VALVE.
13. FILTER FOR HOT WATER SYSTEM.
14. WATER HEATER FLUE. SEE PLUMBING DRAWINGS.
15. OPENING FINISHED WITH FRP FOR SYRUP TUBES. SEE DETAIL 11/A6.4.
16. NO SMOKING SIGN.
17. 6" HIGH WATER HEATER PLATFORM.
18. ALERT LIGHT BOX FOR 3-COMP POWER SOAK.
19. CEILING MOUNT MONITOR BRACKET. SEE DETAIL 2/A6.3.
20. ADJACENT TABLE TOPS TO BE INSTALLED AT SAME LEVEL. ADJUST IN THE FIELD AS REQUIRED.
21. CUT WALL-HANGING TRACK TO ALLOW SPACE FOR CLICK&CLEAN SYSTEM
22. DT TIMER SIGNAL PROCESSOR.
23. DT TIMER MONITOR AND CONTROL UNIT.
24. DT TIMER ETNERNET SWITCH.
25. OPTIONAL LIGHT INDICATOR FOR POWER SOAK. SEE ELECTRICAL FOR J-BOX.
26. AUTOMATIC HAND SOAP AND SANITIZER DISPENSERS. BY ECO LAB.

GREEN

KEY NOTES | **A**

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⚠1	OWN/STATE COMMENTS 08.10.20
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CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

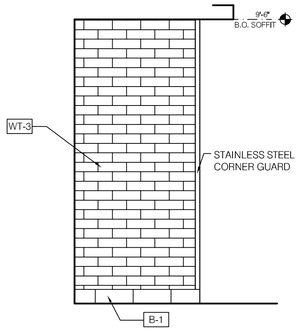
TACO BELL
1
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

INTERIOR ELEVATIONS KITCHEN

A8.2

6/29/20



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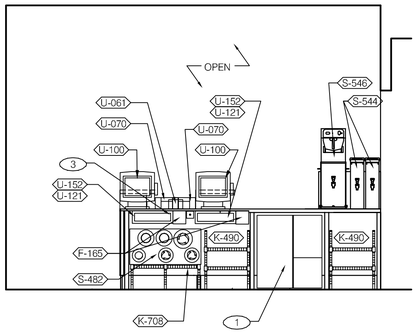

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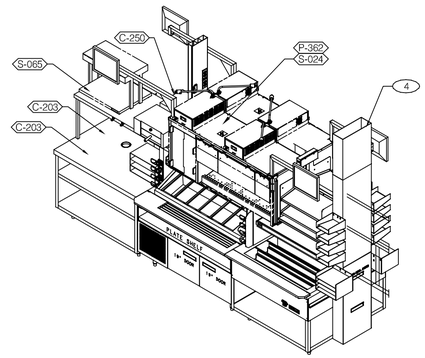

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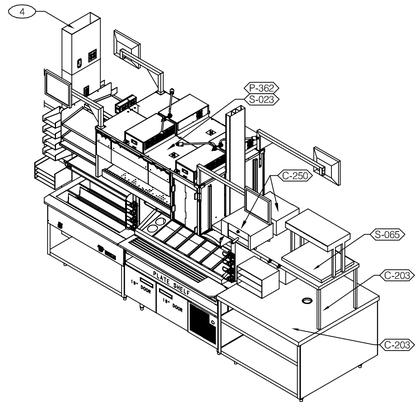
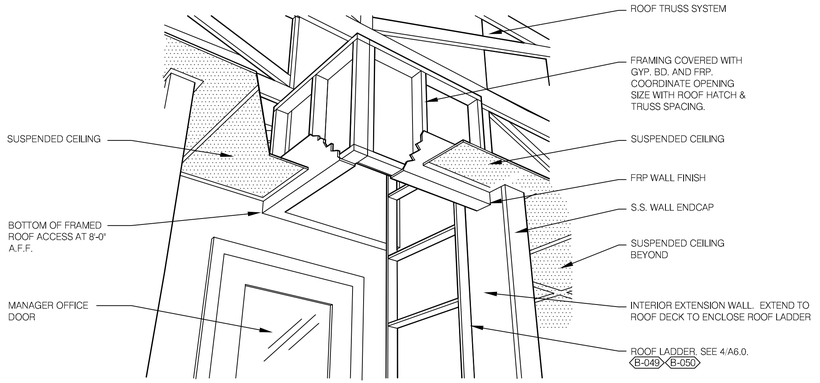


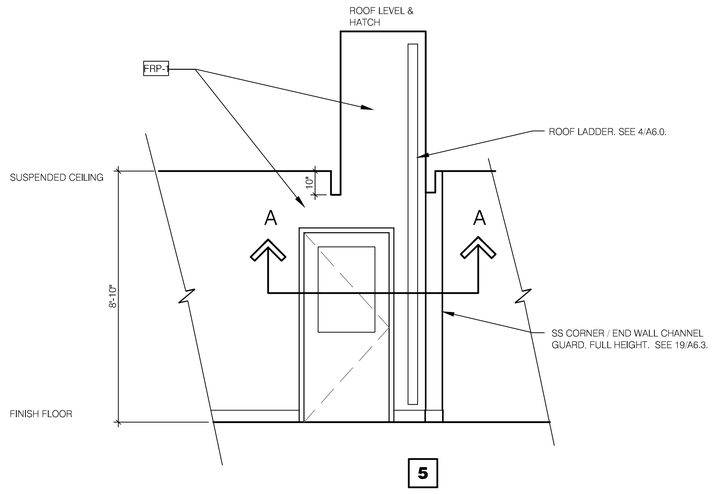
1

SERVING 3/8" = 1'-0"

GTO DUAL LINE 3/8"=1'-0"

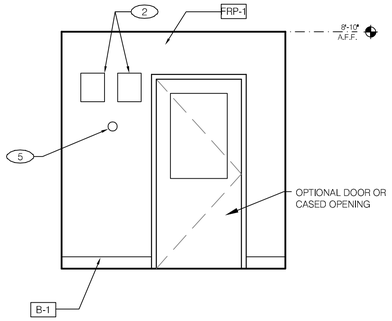


A - ROOF LADDER VIEW



5

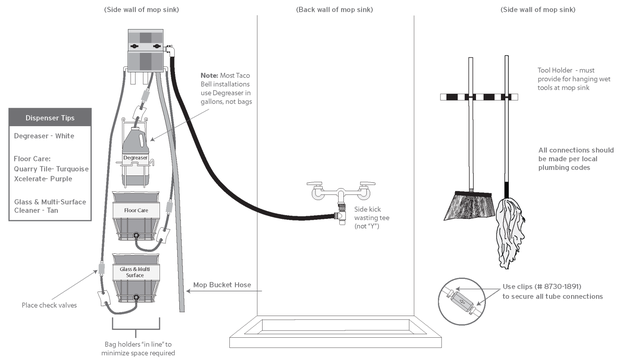
ROOF ACCESS PASSAGEWAY N.T.S. **B**



5

EMPLOYEE / STORAGE 3/8" = 1'-0"

Taco Bell Mop Sink Installation



INSTALL IN ACCORDANCE WITH STATE AND LOCAL PLUMBING CODES.
In states or municipalities requiring dedicated or hard-plumbed water lines, the dispensing unit at the 3-compartment sink must be connected to a "TEMPERED" water source. This may require the installation of a mixing/tempering valve.

ECOLAB Kay Chemical Company 8300 Capital Drive Greensboro, NC 27409-9790, USA 800.529.5458

QSR 44480/8000/1012

MOP SINK INSTALLATION **C**

1. SAFE - INSTALLATION BY BRINKS
2. FAN MOTOR STARTERS. SURFACE MOUNTED. TYP. OF 2.
3. HOLD-UP BUTTON
4. UTILITY CHASE.
5. TEMPERATURE SENSOR. SEE MECHANICAL DRAWINGS.

KEY NOTES **A**

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RICK J. [illegible]
No. 00920072
STATE OF INDIANA
ARCHITECT
8/10/20

1 OWN/STATE COMMENTS 08.10.20

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

TACO BELL
1 3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

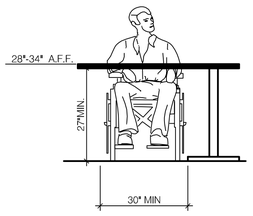
INTERIOR ELEVATIONS KITCHEN

A8.3

6/29/20

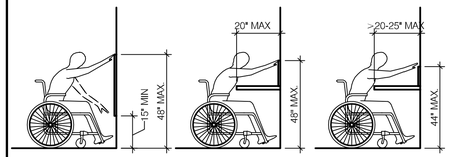
TOTAL SEATS	ACCESSIBLE SEATS
1 - 20	1
21 - 40	2
41 - 60	3
61 - 80	4
81 - 100	5
101 - 120	6
121 - 140	7

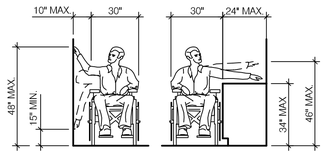
NUMBER OF ACCESSIBLE SEATS



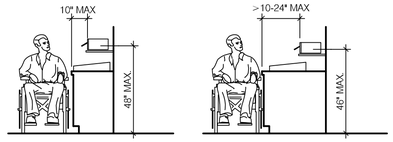
ELEVATION

SEATING AND TABLES N.T.S. **18**





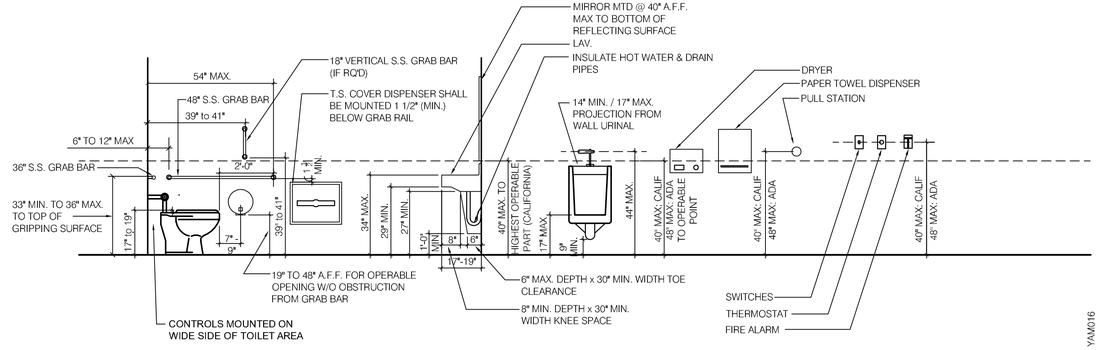
EXAMPLE: DRINK MACHINE, ETC.



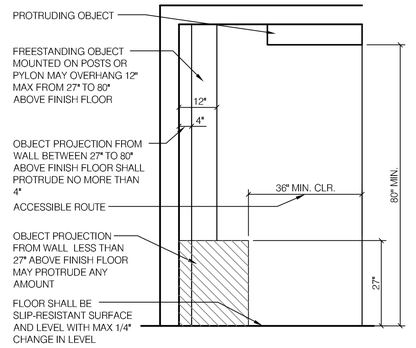
CONDIMENTS

REACH RANGES N.T.S. **14**

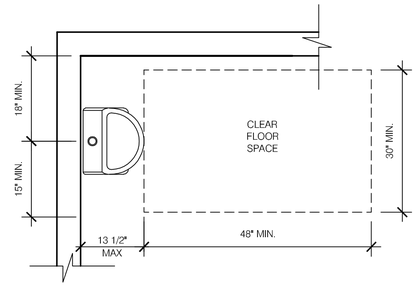
NOTES:
1. TOP OF GRIPPING SURFACE 33" TO 36" MAX TO THE TOP OF THE BAR. SEE NOTES BELOW
2. 12" MINIMUM CLEAR ABOVE GRAB BAR



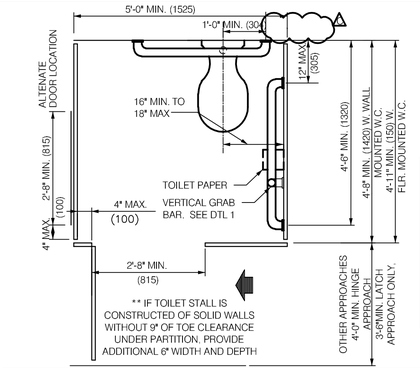
MOUNTING HTS. & CLEARANCES FOR ACCESSIBILITY BY THE DISABLED N.T.S. **1**



INT. ACCESS. ROUTE CLEARANCES 1/2" = 1'-0" **10**



ACCESSIBLE URINAL 3/4" = 1'-0" **6**



STANDARD TOILET STALL N.T.S. **2**

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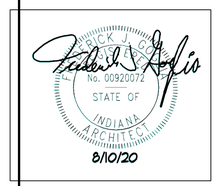
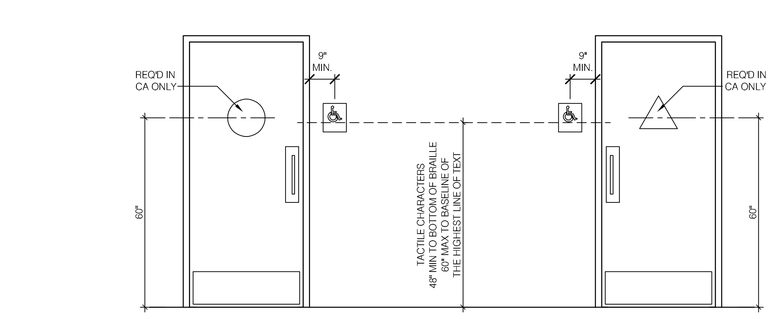
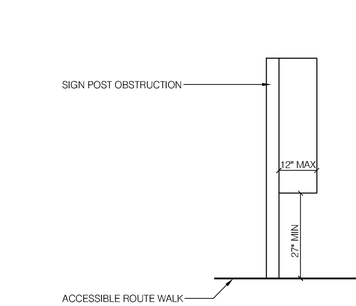
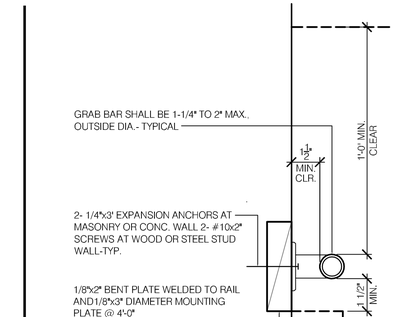




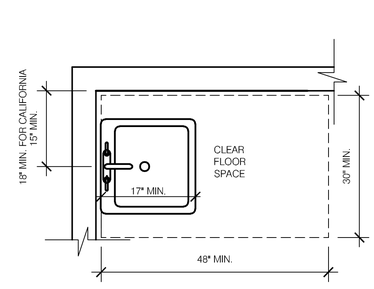
ACCESSIBLE RESTROOM DOORS N.T.S. **15**



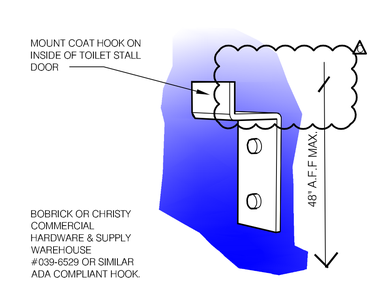
PROTRUDING HAZARDS 1/2" = 1'-0" **11**



GRAB BAR 3" - 1'-0" **7**

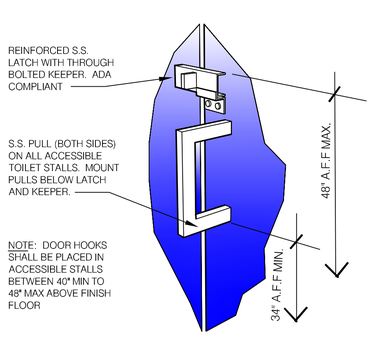


ACCESSIBLE LAVATORY 3/4" = 1'-0" **3**



NOTE: SEE DOOR SCHEDULE, AND DOOR SCHEDULE NOTES

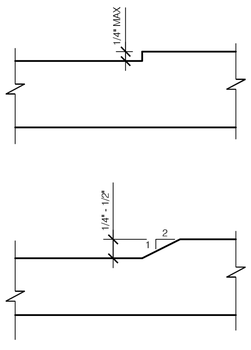
COAT HOOK N.T.S. **20**



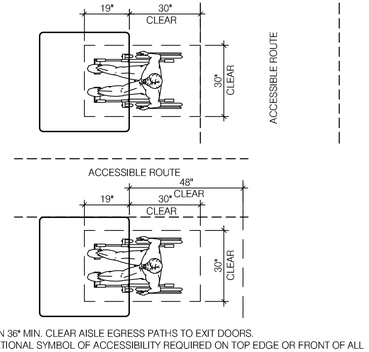
NOTE: DOOR HOOKS SHALL BE PLACED IN ACCESSIBLE STALLS BETWEEN 40" MIN TO 48" MAX ABOVE FINISH FLOOR

NOTE: SEE DOOR SCHEDULE. AND DOOR SCHEDULE NOTES

PARTITION DOOR LATCH @ PULL **16**



CHANGES IN LEVEL N.T.S. **12**



NOTE:
1. MAINTAIN 36" MIN. CLEAR AISLE EGRESS PATHS TO EXIT DOORS.
2. INTERNATIONAL SYMBOL OF ACCESSIBILITY REQUIRED ON TOP EDGE OR FRONT OF ALL ACCESSIBLE TABLES.

DINING ROOM SEATING CLEARANCES N.T.S. **8**

1. INDICATED DIMENSIONS, HEIGHTS, DEPTHS, AREAS AND OTHER GRAPHIC INFORMATION ARE PROVIDED AS MINIMUMS THAT MUST BE MAINTAINED. THESE MINIMUMS ARE BASED UPON YUM STANDARDS AND MAY EXCEED ADA REQUIREMENTS.

   THE DETAILS SHOWN ARE CONCEPTUAL ONLY AND INTENDED TO SHOW ABSOLUTE MINIMUMS AND SHALL BE COORDINATED WITH THE OTHER CONSTRUCTION DOCUMENTS ASSOCIATED WITH THIS PROJECT.

2. 60" TURNING SPACE
   - PERMITTED OVERLAP LIMITED TO 1 ARM OF T-SHAPED SPACE
   - CAN OVERLAP FIXTURE & DOOR CLEARANCE
   - DOOR CAN SWING INTO TURNING SPACE A MAXIMUM OF 12"
3. RESTROOM, IN GENERAL, DOOR SWING MUST BE OUTSIDE OF THE FIXTURE CLEAR FLOOR SPACE HOWEVER A DOOR CAN SWING INTO FIXTURE CLEAR FLOOR SPACE IF WHEELCHAIR SPACE 30"X48" IS PROVIDED BEYOND THE DOOR SWING.
4. TOILET ROOM MUST ALLOW FOR SIDE TRANSFER - 42" BETWEEN FIXTURES

GENERAL NOTES **4**

1	OWN/STATE COMMENTS 08.10.20
2	
3	
4	
5	

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

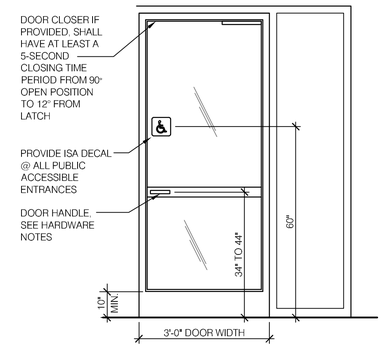
TACO BELL
1 3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

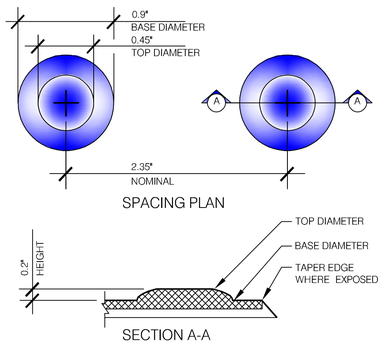
ACCESSIBILITY REQUIREMENTS

ADA1.0

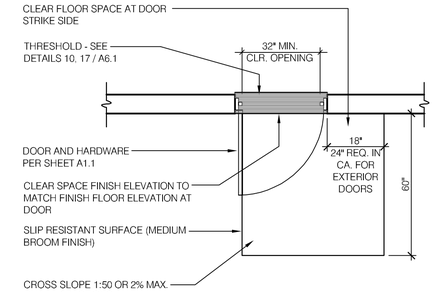
6/29/20



TYP. ENTRANCE / EXIT DOOR N.T.S. **17**

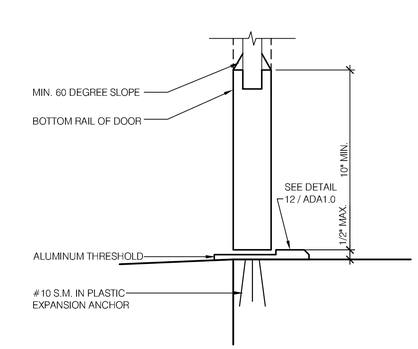


TRUNCATED DOMES N.T.S. **18**

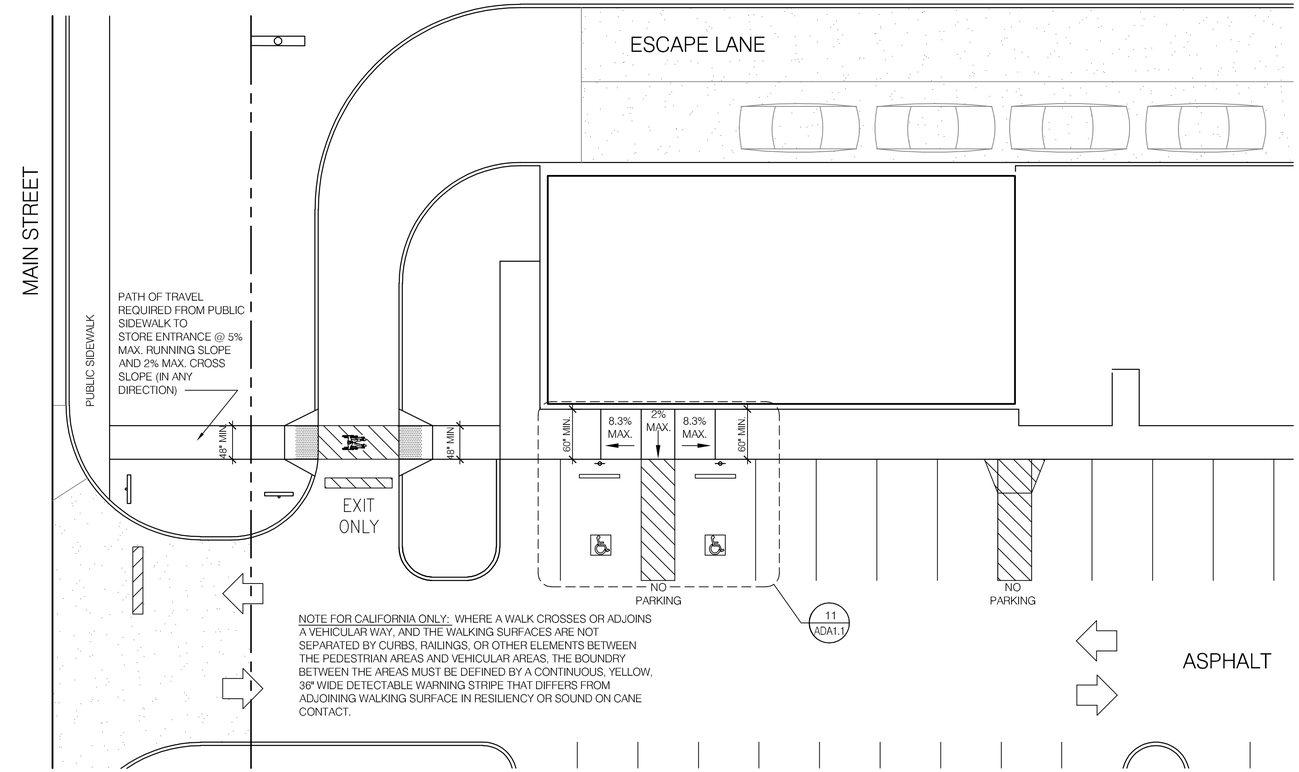


NOTE:
1. EXTERIOR DOOR PRESSURE CANNOT EXCEED 8.5 LBS (GC TO DOOR PRESSURE TO MINIMUM ALLOWABLE BY AHJ).
2. INTERIOR DOOR PRESSURE CANNOT EXCEED 5 LBS.
3. 60% OF PUBLIC ENTRANCES MUST BE ACCESSIBLE. (100% IN CA)

EXTERIOR DOOR REQUIREMENTS 1/2" = 1'-0" **13**

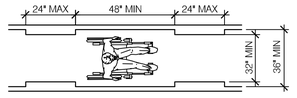


BOTTOM RAIL (EXTERIOR DOOR) 3" = 1'-0" **14**



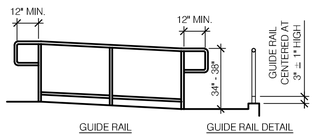
NOTE FOR CALIFORNIA ONLY: WHERE A WALK CROSSES OR ADJOINS A VEHICULAR WAY, AND THE WALKING SURFACES ARE NOT SEPARATED BY CURBS, RAILINGS, OR OTHER ELEMENTS BETWEEN THE PEDESTRIAN AREAS AND VEHICULAR AREAS, THE BOUNDRY BETWEEN THE AREAS MUST BE DEFINED BY A CONTINUOUS, YELLOW, 36" WIDE DETECTABLE WARNING STRIPE THAT DIFFERS FROM ADJOINING WALKING SURFACE IN RESILIENCY OR SOUND ON CANE CONTACT.

EXTERIOR PATH OF TRAVEL N.T.S. **2**

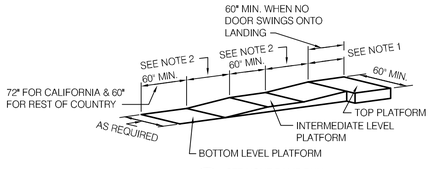


CLEAR WIDTH OF ACCESSIBLE ROUTE

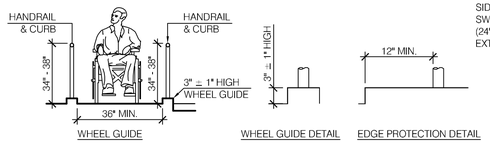
KEY NOTES
1. WHEN DOOR SWINGS ONTO LANDING 42" MIN. PLUS DOOR WIDTH
2. MAXIMUM HORIZONTAL DISTANCE OF EACH RAMP & RUN VARY
3. HANDRAILS NOT REQUIRED ON WALKING SURFACES WITH RUNNING SLOPES LESS THAN 1:20.



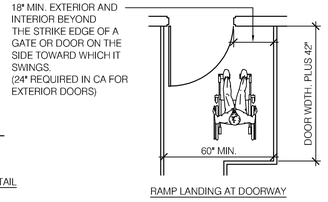
GUIDE RAIL GUIDE RAIL DETAIL



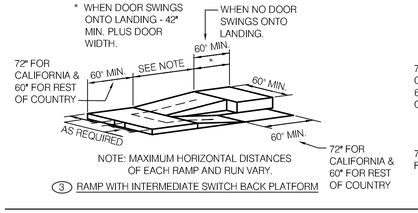
③ STRAIGHT RAMP RUN



WHEEL GUIDE WHEEL GUIDE DETAIL EDGE PROTECTION DETAIL

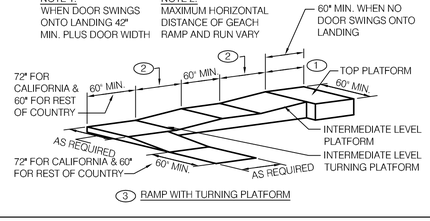


RAMP LANDING AT DOORWAY



NOTE: MAXIMUM HORIZONTAL DISTANCES OF EACH RAMP AND RUN VARY.

③ RAMP WITH INTERMEDIATE SWITCH BACK PLATFORM



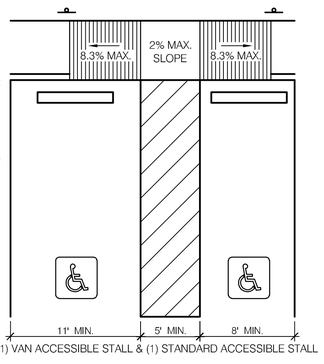
③ RAMP WITH TURNING PLATFORM

RAMPS N.T.S. **16**

NOTE: 1:6 VAN ACCESSIBLE SPACES ARE REQUIRED. AISLE MUST BE ON PASSENGER SIDE ONLY.

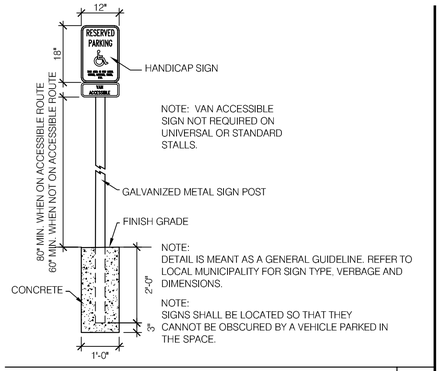
NOTE: ADHERE TO LOCAL OR STATE MUNICIPALITY IF MORE RESTRICTIVE.

NOTE: PROVIDE WHEEL STOP WHERE SIDEWALK IS LESS THAN 6'-0" WIDE

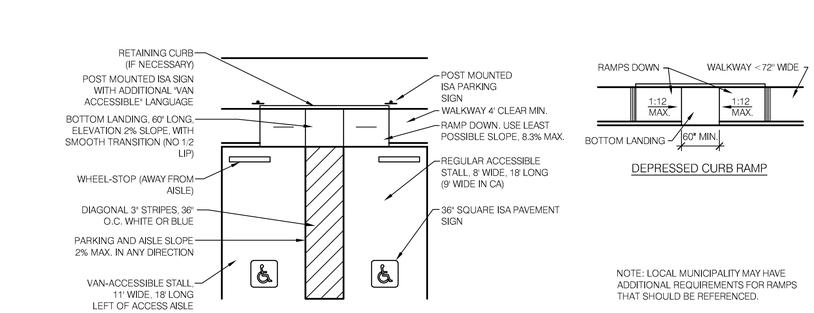


(1) VAN ACCESSIBLE STALL & (1) STANDARD ACCESSIBLE STALL

ACCESSIBLE PARKING STALL N.T.S. **11**



ACCESSIBLE PARKING SIGN N.T.S. **12**

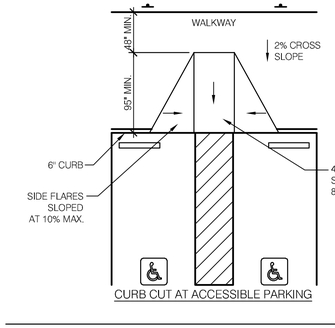


DEPRESSED CURB RAMP

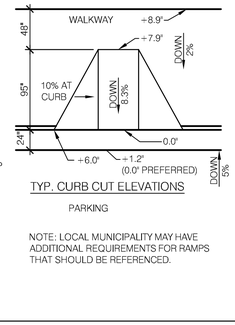
NOTE: LOCAL MUNICIPALITY MAY HAVE ADDITIONAL REQUIREMENTS FOR RAMPS THAT SHOULD BE REFERENCED.

DEPRESSED CURB RAMP AT ACCESSIBLE PARKING (TYP.)

CURB RAMPS N.T.S. **3**

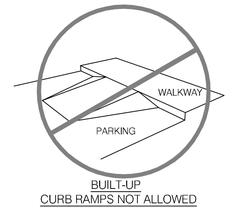


CURB CUT AT ACCESSIBLE PARKING



TYP. CURB CUT ELEVATIONS

NOTE: LOCAL MUNICIPALITY MAY HAVE ADDITIONAL REQUIREMENTS FOR RAMPS THAT SHOULD BE REFERENCED.



BUILT-UP CURB RAMPS NOT ALLOWED

CURB RAMPS N.T.S. **4**

ARCVISION INCORPORATED
ARCHITECTURE • ENGINEERING • STORE PLANNING
SAINT LOUIS / DALLAS / LAS VEGAS / ORLANDO
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

RICK J. DICKSON
No. 00920072
STATE OF INDIANA
ARCHITECT
8/10/20

1	OWN/STATE COMMENTS 08.10.20
2	
3	
4	
5	

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

TACO BELL
1 3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

ACCESSIBILITY REQUIREMENTS

ADA1.1

6/29/20

GENERAL:

1. LOCATE, CUT AND FRAME ROOF OPENINGS AS SHOWN FOR ALL HVAC EQUIPMENT AND EXHAUST FANS.
2. IT IS VERY IMPORTANT THAT ACCURATE MEASUREMENTS ARE USED WHEN LOCATING EXHAUST FAN ROOF OPENINGS TO ENSURE THAT NO ADDITIONAL OFF-SETS ARE REQUIRED IN THE EXHAUST DUCTWORK. COORDINATE ROOF OPENINGS WITH THE KITCHEN EQUIPMENT.
3. PROVIDE ANY FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILING.

REFER TO SCOPE OF WORK 15700-1 HVAC FOR TEST & BALANCE & COMMISSIONING REQUIREMENTS WHICH WILL BE SUPPLIED BY THE OWNER AND COORDINATED BY THE GC.

HVAC:

1. INSTALLATION SHALL CONFORM TO THE ENERGY CONSERVATION DESIGN MANUAL STANDARDS FOR NEW NONRESIDENTIAL BUILDINGS.
2. ALL WORK AND MATERIALS SHALL COMPLY WITH GOVERNING CODES, SAFETY ORDERS AND REGULATIONS.
3. OBTAIN AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY GOVERNING AUTHORITIES.
4. E.C. SHALL PROVIDE CONDUIT FOR LINE AND LOW VOLTAGE WIRING, LINE VOLTAGE WIRING SWITCHES, AND FINAL CONNECTIONS.
5. M.C. SHALL PROVIDE 24V CONTROL WIRING AND FINAL CONNECTIONS. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMINTED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS.
6. FOR INSTALLATION OF RECHARGEABLE REFRIGERANT LINES FROM ICE MACHINE TO CONDENSER ON ROOF, SEE SCOPE OF WORK.
7. HVAC UNITS SHALL BE MOUNTED LEVEL ON ROOF CURBS.
8. ALL SUPPLY / RETURN DUCTWORK SHALL BE EXTERNALLY INSULATED.
9. ALL SUPPLY / RETURN DUCTS SHALL BE RIGID, WITH THE EXCEPTION OF THE LAST 5'-0", WHICH MAY BE FLEX.
10. SMOKE DETECTOR SHALL BE INSTALLED IN THE RETURN AIR DUCT, PRIOR TO ANY OUTSIDE AIR CONNECTIONS, AND SHALL DEACTIVATE ROOFTOP UNIT UPON SENSING SMOKE. INCLUDE SMOKE DETECTOR IN THE SUPPLY AIR DUCT ONLY IF REQUIRED BY LOCAL CODE.
11. ALL HOOD EXHAUST DUCTS SHALL BE RIGID 16 GA MINIMUM, WELDED DUCT. GRIND ALL WELDS SMOOTH. PROVIDE 3M FIRE BARRIER DUCT WRAP FOR ALL HOOD EXHAUST DUCTS. SEE 15/M4.0.
12. ALL BRANCH DUCTS FEEDING INDIVIDUAL DIFFUSERS SHALL HAVE DAMPERS AT TAKEOFFS FOR AIR BALANCING. PROVIDE ACCESS PANELS TO DAMPERS. SEE 8/M4.0.
13. ALL UTILITY PIPING FOR RTU'S SHALL RUN UP THROUGH ROOF INSIDE EACH UNIT'S ROOF CURB.
14. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM EXHAUST FANS AND / OR VENTS.
15. SEE 8/M1.0 AND SCOPE OF WORK FOR DESCRIPTION OF HVAC PACKAGE TO BE PURCHASED THROUGH YUM! BRANDS NATIONAL CONTRACT.
16. FINAL HVAC SYSTEM TESTING AND BALANCING SHALL BE PERFORMED BY INDEPENDENT AGENT CONTRACTED DIRECTLY BY THE OWNER. A RE-TEST IS MANDATORY FOR A FALSE START (I.E. NO POWER UPON AGENT'S ARRIVAL, EQUIPMENT NOT WIRED, ETC.) AND SHALL BE A COST INCURRED BY THE G.C. IN THE EVENT A SYSTEM / STORE RECEIVES A GRADE OF 5 OR BELOW AS A RESULT OF THE HVAC SYSTEM PERFORMANCE OR OPERATIONAL DEFICIENCIES, OWNER WILL REQUEST A RE-TEST AND THE COST FOR SAME SHALL BE ALSO INCURRED BY THE GENERAL CONTRACTOR.
17. TRANE THERMOSTAT & REMOTE SENSOR BAYSENS119, PROVIDED WITH TRANE PACKAGE.

GREEN

GENERAL NOTES 10

SYMBOL & ABBREV.	DESCRIPTION
SA/SUP	SUPPLY AIR (RISE/DROP)
RA/RET	RETURN AIR DUCT (RISE/DROP)
EA/EXH	EXHAUST AIR DUCT (RISE/DROP)
CD/SR	CEILING DIFFUSER/SUPPLY REGISTER (ARROWHEAD REPRESENTS NUMBER OF THROW)
RR/RG	RETURN REGISTER/GRILLE
ER/EG	EXHAUST REGISTER/GRILLE
	RECTANGULAR DUCT ELBOW WITH TURNING VANES
FC	FLEXIBLE CONNECTION
MVD	MANUAL VOLUME DAMPER
FD	FIRE DAMPER
(L)	DUCT LINING (1" THICK UNLESS OTHERWISE NOTED)
	SINGLE LINE DUCT BRANCH TAKEOFF
	DUCT TRANSITION (RECTANGULAR TO ROUND)
FLEX	FLEXIBLE DUCT (14'-0 MAXIMUM)
T	T-STAT
TS	THERMOSTAT SENSOR (REMOTE). PROIVDED WITH TRANE PACKAGE.
H	HUMIDITY SENSOR (REMOTE). PROVIDED WITH TRANE PACKAGE.
D	CONDENSATE DRAIN
Ø	DIAMETER
DL	DOOR LOUVER
UC	DOOR UNDERCUT (3/4" MINIMUM)
X-X 0000	MECHANICAL EQUIPMENT DESIGNATION
R	RESET
	DOUBLE LINE DUCT SHOE TAP BRANCH TAKEOFF WITH VOLUME DAMPER

SYMBOL & ABBREV.	DESCRIPTION
A/C , AC	AIR CONDITIONING
BDD	BACK DRAFT DAMPER
CB	CIRCUIT BREAKER
CLG.	CEILING
CONN.	CONNECT/CONNECTION
CONT.	CONTINUATION
CONTR	CONTRACTOR
CFM	CUBIC FEET PER MINUTE
DET.	DETAIL
DISC.	DISCONNECT
DTR	DOWN THRU ROOF
EF	EXHAUST FAN
(E)	EXISTING
GA.	GAGE/GAUGE
GC	GENERAL CONTRACTOR
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
MFR.	MANUFACTURER
MECH.	MECHANICAL
(N)	NEW
OA/OSA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
S/S	STAINLESS STEEL
TYP.	TYPICAL
UON	UNLESS OTHERWISE NOTED
UTR	UP THRU ROOF

MECHANICAL SYMBOLS 12

XX-XXX MARK	AREA SERVED	FAN DATA: SUPPLY CFM	MIN O.A. CFM	ESP	HP	RPM	COOLING CAPACITY: NOM TONS	MIN CAP (MBH) TOT/SEN	EER	HEATING CAPACITY: INPUT (MBH)	OUTPUT (MBH)	STAGES	AFUE	UNIT ELECT DATA: VOLTS/PH	MCA	MOPD	MAX UNIT WEIGHT (LBS)	MANUFACTURER AND MODEL NUMBER	REMARKS
RTU-1	DINING	3000	750	0.8"	2.75	1217	7.5	98.09/63.63	12.6	200	160	2	80	208/3	42.0	50.0	1255	TRANE YHC092F3RHA--F0C1C2A000C3	SEE NOTES 1-4
RTU-2	KITCHEN	6000	1050	1"	3	747	15.0	190.46/140.67	12.1	350	280	2	80	208/3	68.0	90.0	2701	TRANE YHD180G3RHB--F0C1C2A000C3	SEE NOTES 1-4

SCHEDULE NOTES:
1. LISTED CAPACITY IS THE UNIT'S NET COOLING CAPACITY AT THE FOLLOWING CONDITIONS: RTU-1 - 81.2°F DB / 61.5°F WB EAT AND 95°F AMBIENT / RTU-2 - 82.0°F DB / 57.6°F WB EAT AND 95°F AMBIENT. OUTDOOR DESIGN CONDITION, SUMMER 90°F & 73°F WB, WINTER -2°F. THERMOSTAT SHALL BE PROGRAMMED FOR 73°F IN SUMMER AND 68°F IN WINTER WITH 2°F ADJ. FUNCTION UP OR DOWN. THE UNOCCUPIED TEMP SHALL BE SET TO THE STORE SCHEDULE AND 60°F MINIMUM.
2. SPECIFIED RTUS ARE DOWN DISCHARGE PACKAGED GAS / ELECTRIC ROOFTOP UNITS WITH MINUMUM 2-STAGE COOLING. INCLUDES THROUGH THE ROOF CURB POWER, GAS & CONDENSATE DRAIN. GAS PIPING SHALL BE FACTORY PIPED WITH SHUT-OFF OUTSIDE OF UNIT.
3. SPECIFIED UNIT INCLUDES HINGED ACCESS DOORS, 2" PLEATED FILTERS, LOW AMBIENT CONTROL TO 0 DEG. F., REFERENCE ENTHALPY ECONOMIZER (0-100%) WITH BAROMETRIC RELIEF, CIRCUIT BREAKER WITH SINGLE POINT WIRING, HAIL GUARD, FACTORY FABRICATED, KNOCK DOWN ROOF CURB,FACTORY INSTALLEDDISCHARGE AIR SENSING TUBE.
4. THERMOSTAT AND REMOTE SENSOR PROVIDED WITH HVAC PACKAGE. THERMOSTAT TO BE TRANE BAYSENS136 PROGRAMMABLE ZONE THERMOSTAT W/REMOTE SENSOR OR EQUIVALENT.

GREEN

HVAC UNIT SCHEDULE 1

XX-XXX MARK	CFM	SP	RPM	HP	ELECT	STARTER	ACCESSORIES: DISC	BDD	BIRD SCREEN	V-BELT	D-DR	MANUFACTURER AND MODEL NUMBER	REMARKS
EF-1	1050	0.9	1344	0.50	120/1	-	X	-	-	-	X	STRATOVENT #SVDU50HFA	SEE NOTES 1,3,5,6,7,8,10
EF-2	570	.375	1025	1/4	120/1	-	X	X	X		X	STRATOVENT #SVDR30HFA	SEE NOTES 2,4,7,8,9,10,11

REMARKS:
1. UL 762 LISTED (GREASE)
2. UL705 LISTED (HEAT OR STEAM)
3. FLAT ROOF CURB 19.5"X 19.5"X 26"H, VENTED
4. FLAT ROOF CURB, 19.5"X 19.5" X 14"H
5. GREASE CUP WITH DRAIN
6. FACTORY ATTACHED HINGES
7. WEATHERPROOF PRE-WIRED DISCONNECT SWITCH
8. PROVIDE PRE-WIRED SOLID STATE SPEED CONTROLLER
9. GRAVITY BACKDRAFT DAMPER
10. PROVIDED BY OWNER WITH HOOD PACKAGE
11. PROVIDE WITH DAMPER TRAY

SUPPLY AND EXHAUST FAN SCHEDULE 2

XX-XXX MARK	QUANTITY	NECK SIZE	DIFFUSER FACE OR CEILING GRID SIZE	TYPE: DIFFUSER	REGISTER	GRILL	(NO.) & AIR PATTERN / CFM RANGE	MOUNTING: LAY-IN	SURFACE	DUTY: SUPPLY	RETURN	EXHAUST	MATERIAL: ALUMINUM	STEEL	MANUFACTURER	MODEL NUMBER	REMARKS
S-1	14	15x15	24x24	X			(8)4W / (6)3W			X			X		METAL-AIRE / TITUS	5000-6 / TDC-AA-NT	FRN SQR TO RND ADAPTER
S-3	2	9x9	14x14	X			(2)4W / 0-250		X				X		METAL-AIRE / TITUS	5000-1 / TDC-AA	FRN SQR TO RND ADAPTER. PROVIDE SURFACE MOUNT BORDER.
S-4	3	12"Ø	24x24	X			VERT / 300-700		X	X			X		HART & COOLEY	RZMCDST	PLASTIC MODULAR CORE
S-5	1	8x6	10x6			X	NO DIREC. / 0-150		X	X			X		METAL AIRE / TITUS	4000-AF / 300FL	PROVIDE SURFACE MOUNT BORDER.
R-1	6	20x20	24x24			X	NO DIREC. / 0-2000	X			X		X		METAL-AIRE / TITUS	RHE-6 / 50FF	HINGED / FULLY REMOVABLE FACE
	1																
E-1	2	8x8	12X12			X	NO DIREC. / 0-200		X			X	X		METAL-AIRE / TITUS	CC5S-1 / 50F	FRN SQR TO RND ADAPTE.R PROVIDE SURFACE MOUNT BORDER.
E-2	1	10x10	24x24			X	NO DIREC. / 0-400	X				X			METAL-AIRE / TITUS	CC5-FB-TB / 50F-NT	PROVIDE 2x2" LAY-IN PANEL; FRN SQR TO RND ADAPTER

NOTES:
1. DIFFUSERS IN SURFACE MOUNTED CEILINGS SHALL BE PROVIDED WITH OPPOSED BLADE DAMPERS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

AIR DEVICE SCHEDULE 3

1

FOR COMPLETE INFORMATION AND PRICING ON THE TRANE HVAC PACKAGE CONTACT MARTY CUSICK, THE YUM! BRANDS ACCOUNT EXECUTIVE AT TRANE NATIONAL ACCOUNTS.
TOLL-FREE PHONE: (866) YUM-HVAC or (866) 986-4822
FAX: (502) 499-7870
EMAIL: mjcusick@trane.com

FOR HVAC TEST AND BALANCE, GC TO SCHEDULE WITH TACO BELL'S PREFERRED VENDOR PER SCOPE OF WORK WORKSHEETS.

BE PREPARED AT TIME OF ORDER OR QUOTE REQUEST TO PROVIDE ALL PROJECT DETAILS REGARDING SPECIFICATIONS AND QUANTITIES AS SITE SPECIFIC DESIGN MAY NOT MATCH NATIONAL DESIGN.

SEE THE SCOPE OF WORK SHEETS FOR ADDITIONAL INFORMATION.

TRANE PACKAGE N.T.S. 8

ITEM	OA	RA	SA	EA	PRESSURE
EF-1	--	--	--	1050	-1050
EF-2	--	--	--	570	-570
RTU-1	750	2250	3000	--	+750
RTU-2	1050	4950	6000	--	+1050
				1	
TOTAL	1800	7200	9000	1620	+180

NOTE:
THE OUTSIDE PERCENTAGE OF TOTAL SUPPLY AIR IS 25% FOR RTU-1 AND 17.1% FOR RTU-2.

AIR BALANCE SCHEDULE CFM 4

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SAINT LOUIS / DALLAS / LAS VEGAS / ORLANDO
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300
www.arcv.com

1 OWN/STATE COMMENTS 08.10.20

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

1 TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

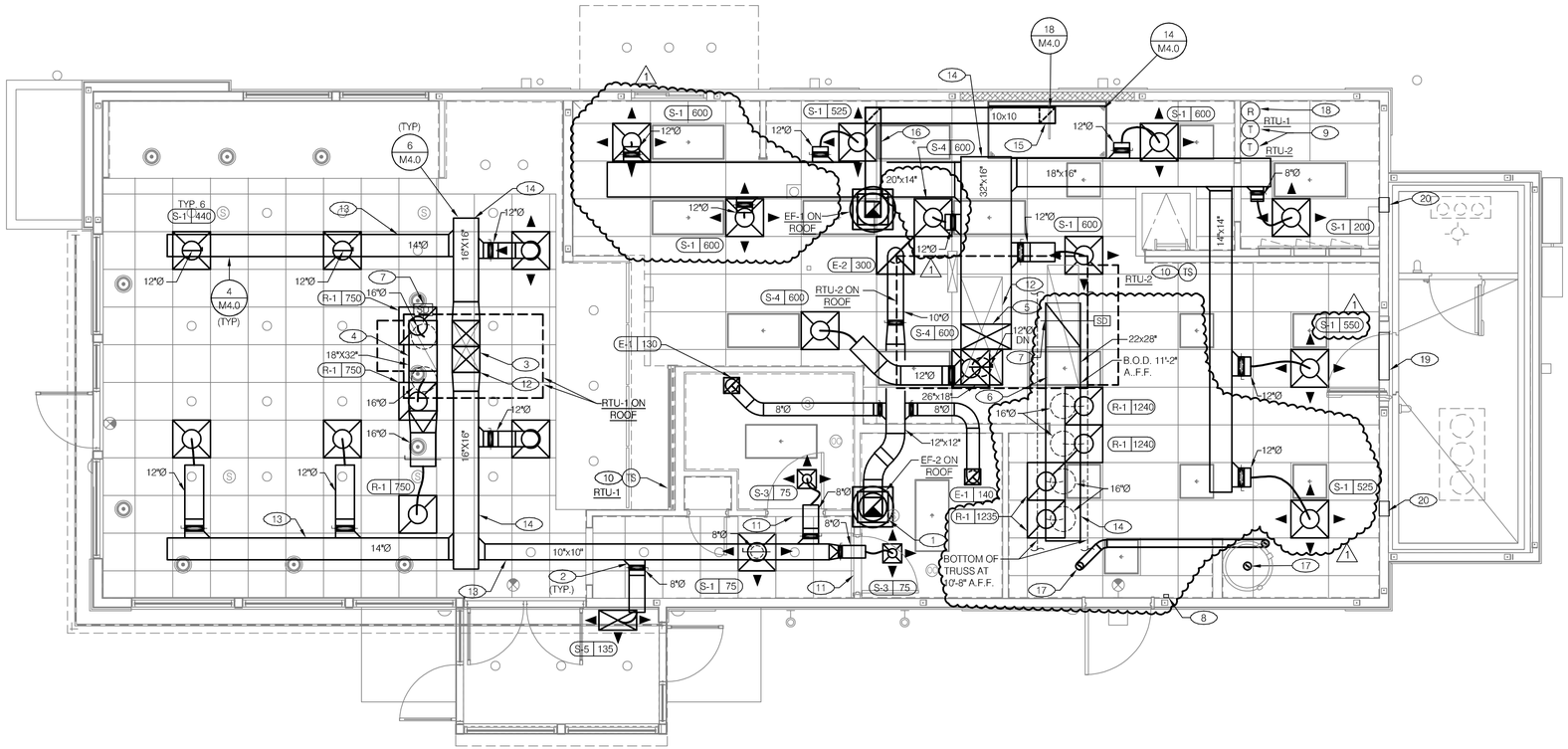
TACO BELL
EXPLORER LITE
MEDIUM40

MECHANICAL SCHEDULES AND NOTES

M1.0

6/29/20

COVER ALL HVAC DUCT SYSTEM OPENINGS TO PROTECT FROM CONSTRUCTION DUST AND DEBRIS UNTIL CONSTRUCTION IS COMPLETE. IF THE HVAC SYSTEM IS OPERATED BEFORE CONSTRUCTION IS COMPLETE, PROVIDE MERV8 FILTERS AT ALL AIR INTAKES INSIDE THE BUILDING.



DUCT AND DIFFUSER PLAN 1/4"=1'-0" A

NOT USED F

GENERAL NOTES E

1. DINING ROOM LIGHT FIXTURE LOCATIONS ARE CRITICAL. COORDINATE DUCTWORK LOCATIONS SO AS NOT TO CONFLICT WITH LIGHT FIXTURE LOCATIONS.
2. THERMOSTATS SHALL BE PROGRAMMABLE THERMOSTAT WITH SUBBASE. REMOTE TEMPERATURE SENSOR. AND REMOTE HUMIDITY SENSOR. (PROVIDED WITH TRANE PACKAGE).
3. HUMIDITY SENSOR APPLICATION IS VARIABLE PER SITE SPECIFIC CONDITIONS. REFER TO HVAC UNIT SCHEDULE. 1/M1.0. FOR APPLICATION CONDITIONS.
4. COORDINATE DUCTWORK LOCATIONS WITH LIGHTING AND STRUCTURAL.

KEY NOTES B

1. 12x12 EXHAUST AIR DUCT UP THROUGH ROOF TO EF-2.
2. SEE DETAIL 8 ON DRAWING M4.0 FOR SUPPLY AIR TAKE-OFF TO CEILING DIFFUSERS. RETURN OR EXHAUST AIR TAKE-OFFS SHALL BE SIMILAR.
3. 34x18 SUPPLY AIR DUCT UP. CONNECT TO SUPPLY AIR PLENUM AT ROOFTOP UNIT RTU-1.
4. 32x18 RETURN AIR DUCT UP. CONNECT TO RETURN AIR PLENUM AT ROOFTOP UNIT RTU-1.
5. 68x26 SUPPLY AIR DUCT UP. CONNECT TO SUPPLY AIR PLENUM AT ROOFTOP UNIT RTU-2.
6. 76x20 RETURN AIR DUCT UP. CONNECT TO RETURN AIR PLENUM AT ROOFTOP UNIT RTU-2.
7. FURNISH AND INSTALL SMOKE DETECTOR IN THE RETURN AIR DUCT, IN ACCORDANCE WITH LOCAL CODES. DUCT SMOKE DETECTOR WIRED BY ELECTRICAL CONTRACTOR, SEE SHEET E3.2.
8. LOCATE NEW ANSUL PULL STATION FOR TYPE I EXHAUST HOOD 10'-20' FROM HOOD. INSTALL 48" A.F.F.
9. LOCATE THERMOSTAT CONTROLS ON WALL IN OFFICE AT 48" A.F.F. COORD LOCATION WITH LIGHT SWITCHES.
10. MOUNT THERMOSTAT REMOTE SENSOR AT 60" ABOVE FINISHED FLOOR.
11. UNDERCUT RESTROOM DOORS MIN. 3/4" FOR MAKE-UP AIR.
12. PROVIDE SPLITTER DAMPER AND 90 DEGREE ELBOW WITH TURNING VANES.
13. RUN DUCT THROUGH OPEN WEBBING OF ROOF JOISTS (WHERE POSSIBLE). COORDINATE WITH TRUSS DESIGN PRIOR TO DUCTWORK FABRICATION.
14. RUN DUCTWORK BETWEEN TRUSSES AS HIGH AS POSSIBLE UNDER ROOF JOISTS.
15. 10"X10" EXHAUST AIR DUCT DOWN AND TRANSITION TO FIELD CUT EXHAUST CONNECTION AT HOOD.
16. EXHAUST DUCT SHALL RUN BETWEEN ROOF JOISTS TO CONNECT TO ROOF EXHAUST FAN EF-1. SEE HOOD DETAILS ON DRAWING M3.0. SEE DETAIL 15 ON SHEET M4.0 FOR FIRE PROTECTION OF DUCT WORK. SEE DETAIL 18 ON SHEET M4.0 FOR EXHAUST DUCT TRANSITION.
17. FURNISH AND INSTALL 3" PVC WATER HEATER INTAKE AND FLUE VENT TERMINATION ON ROOF. COORDINATE WORK WITH ALL TRADES.
18. NEW SMOKE DETECTOR RESET SWITCH WITH KEY. MFR. IS "SYSTEM SENSOR" MODEL # RT5151 KEY. MOUNT NEXT TO THERMOSTATS @ 48" A.F.F. - INSTALL PER MFR. SPECIFICATIONS.
19. ACCESS OPENING TO SPACE ABOVE WALK-IN. SEE SHEET A7.1.
20. AIR TRANSFER GRILLS. SEE SECTION "C" ON A5.1.

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REGISTERED PROFESSIONAL ENGINEER
LICENSE NO: PE10303015
STATE OF INDIANA
8/10/20

1	OWN/STATE COMMENTS 08.10.20
2	
3	
4	
5	

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

1 TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

DUCT AND DIFFUSER PLAN

M2.0

6/29/20

CODE COMMENTS

1. TYPE I KITCHEN HOODS SHALL BE TESTED PRIOR TO OCCUPANCY AS SET FORTH IN SECTION 507.16, IMC (675 IAC 18-1.6).
2. JOINTS, SEAMS AND PENETRATIONS FOR TYPE I HOODS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 507.7.1, IMC (675 IAC 18-1.6).
3. MAKEUP AIR FOR COMMERCIAL KITCHEN EXHAUST SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 508, IMC (675 IAC 18-1.6).

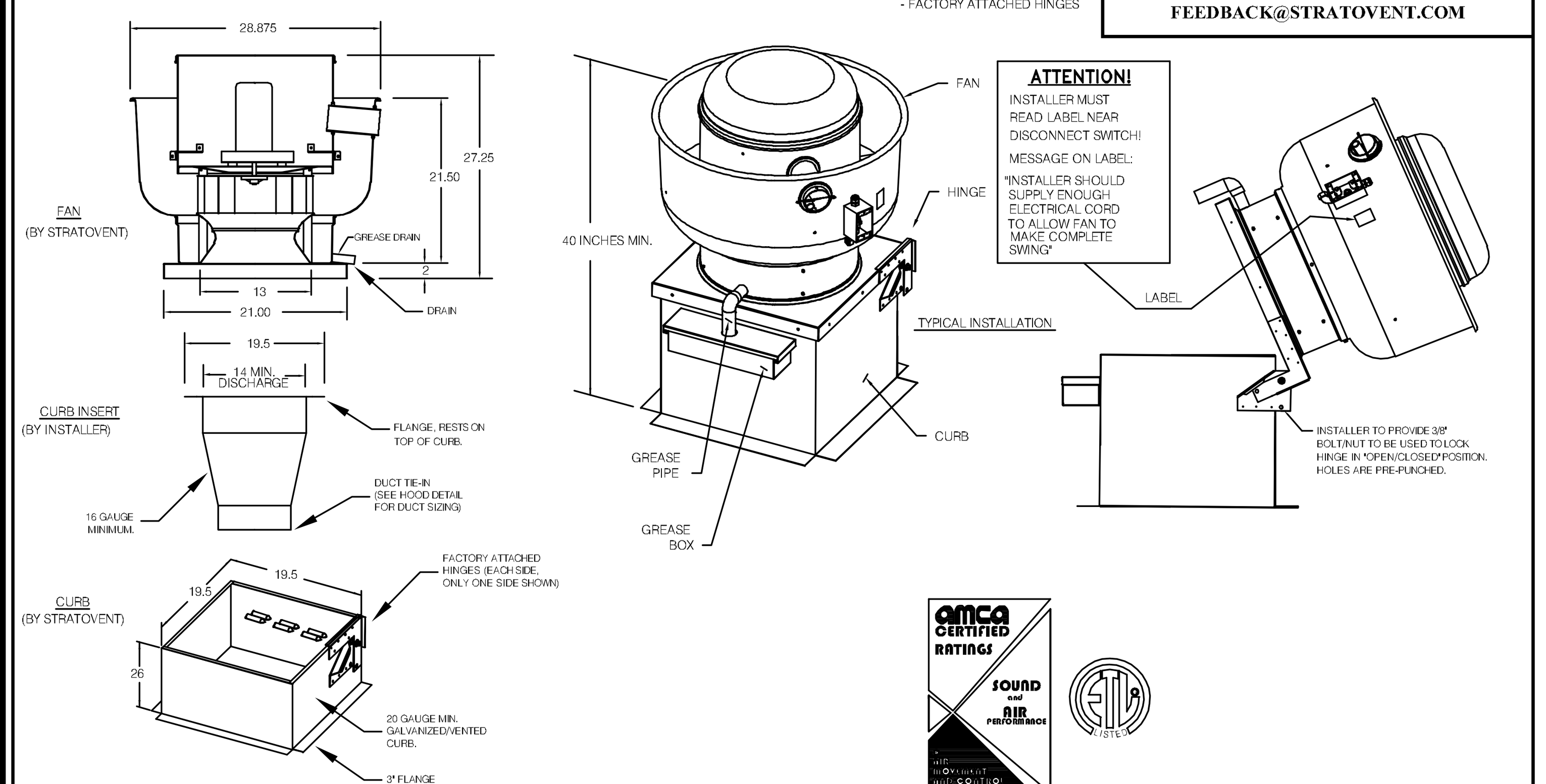
STRATOVENT MODEL# SVDU50HFA

TAG	HOOD	STRATOVENT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	MCA/MOP	WEIGHT (LBS.) FAN/CURB	SONES
EF-1	FRYER	SVDU50HFA	1050	0.9"	1429	0.50	0.33	1	115	8.4	10.5/15	85/40	14.5

SIZING NOTE: THE SELECTED FAN IS SUITABLE FOR MOST SINGLE STORY BUILDINGS. FOR LONGER DUCT RUNS, OR MULTI-STORY STRUCTURES, REQUEST A SITE ADAPT SELECTION.

SELECTED OPTIONS
- RESTAURANT MODEL
- UL762, GREASE RATED
- DIRECT DRIVEN
- SPEED CONTROLLER
- WEATHERPROOF DISCONNECT
- FLAT CURB, VENTED
- FACTORY ATTACHED HINGES

STRATOVENT
CALIFORNIA-OKLAHOMA-NORTH CAROLINA
PH: 919-573-4250
FEEDBACK@STRATOVENT.COM



ATTENTION!
INSTALLER MUST READ LABEL NEAR DISCONNECT SWITCH!
MESSAGE ON LABEL:
"INSTALLER SHOULD SUPPLY ENOUGH ELECTRICAL CORD TO ALLOW FAN TO MAKE COMPLETE SWING"

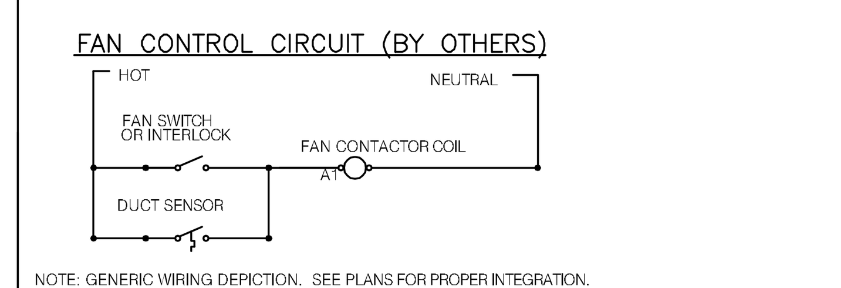
NOTE: ALL DIMENSIONS (INCHES)

REVISED: 10-10-2018

TACO BELL HOOD FIRE SUPPRESSION SYSTEM PLAN N.T.S. **14**

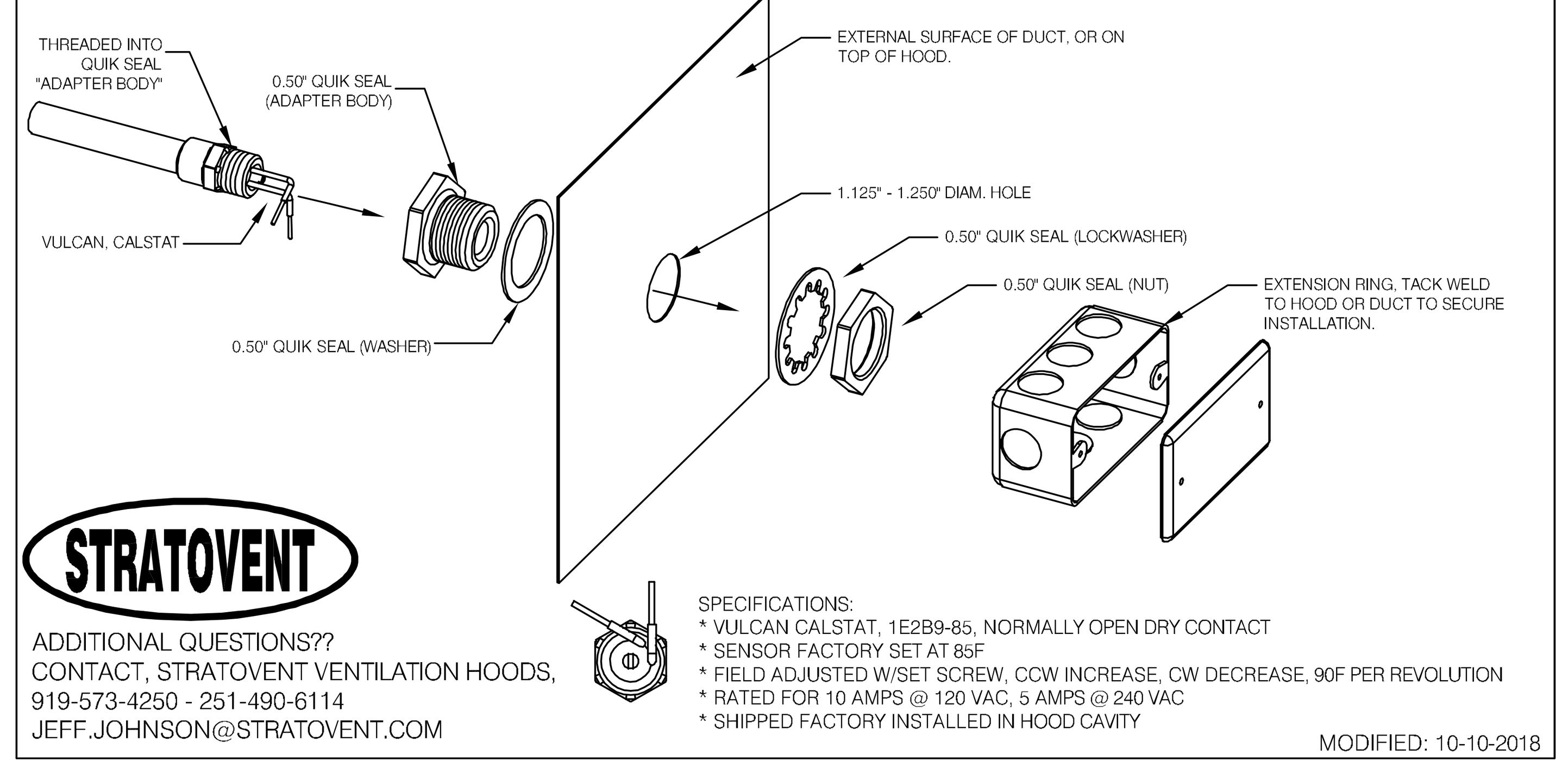
INSTALLATION: DUCT TEMPERATURE SENSOR

SENSOR DETAIL



NOTE: GENERIC WIRING DEPICTION. SEE PLANS FOR PROPER INTEGRATION.

- NORMALLY OPEN DRY CONTACT, CLOSES ON TEMPERATURE RISE ABOVE 85F. WIRED IN PARALLEL TO NORMAL CONTROLS CIRCUIT. WHEN ORDERED, SENSOR IS FACTORY INSTALLED IN HOOD CAVITY WITH J-BOX ON TOP OF THE HOOD.
- DO NOT USED SENSOR AS THE PRIMARY MEANS OF FAN CONTROL. USED ONLY AS A SAFETY DEVICE TO ENERGIZE HOOD EXHAUST WHEN COOKING EQUIPMENT GENERATES HEAT
- FAN CONTACTOR BY OTHERS SEE ELECTRICAL SHEETS FOR DETAILS.
- SEE SPECS BELOW FOR TEMP SET POINT ADJUSTMENT



STRATOVENT

ADDITIONAL QUESTIONS??
CONTACT, STRATOVENT VENTILATION HOODS,
919-573-4250 - 251-490-6114
JEFF.JOHNSON@STRATOVENT.COM

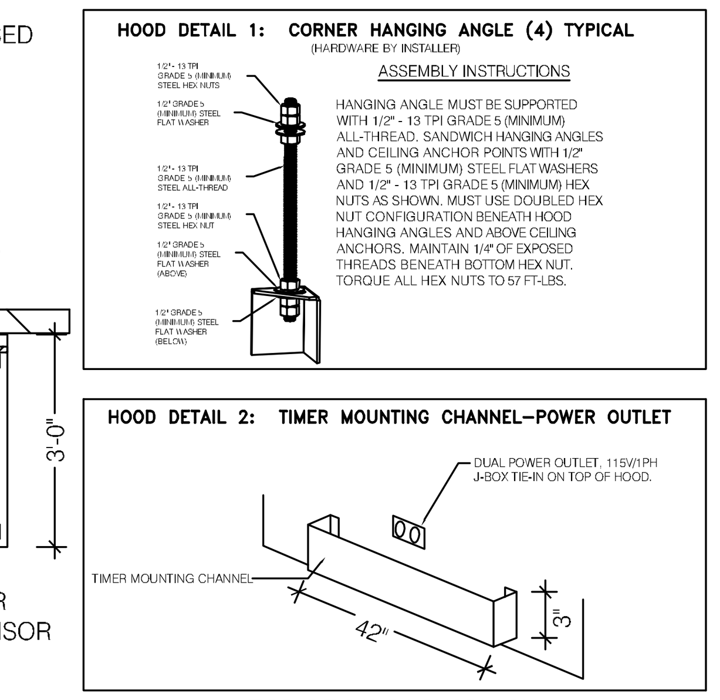
SPECIFICATIONS:
* VULCAN CALSTAT, 1E2B9-85, NORMALLY OPEN DRY CONTACT
* SENSOR FACTORY SET AT 85F
* FIELD ADJUSTED W/SET SCREW, CCW INCREASE, CW DECREASE, 90F PER REVOLUTION
* RATED FOR 10 AMPS @ 120 VAC, 5 AMPS @ 240 VAC
* SHIPPED FACTORY INSTALLED IN HOOD CAVITY

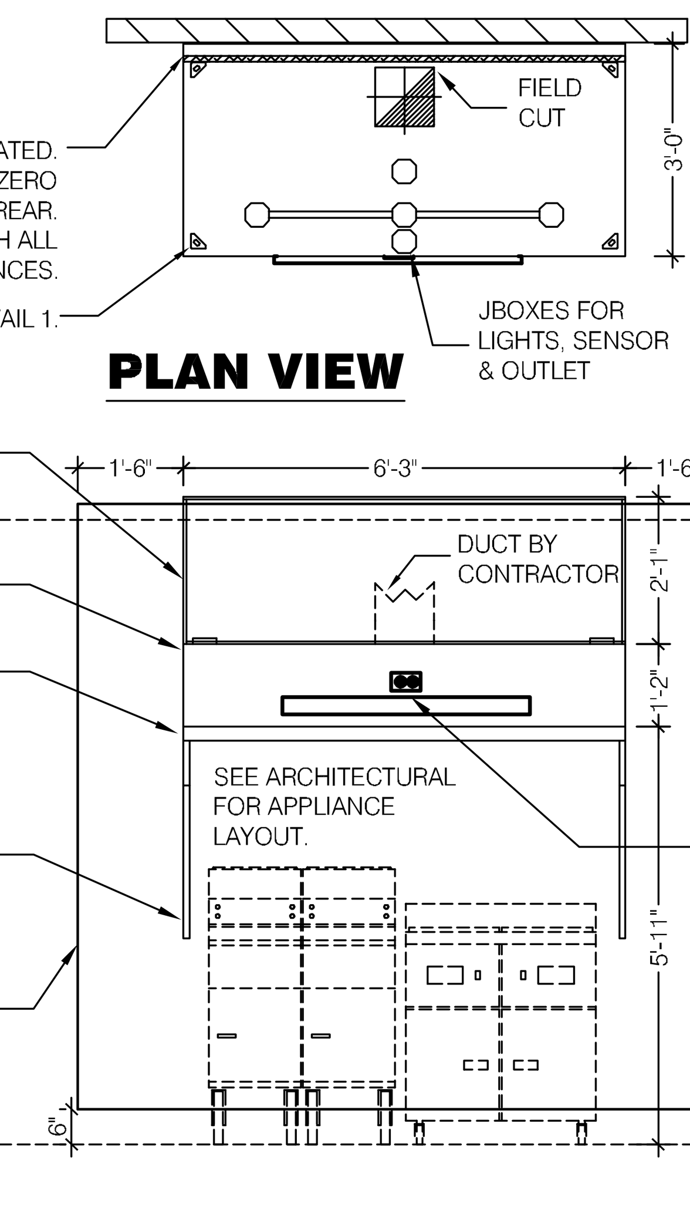
MODIFIED: 10-10-2018

HEAT SENSOR ATTACHMENT N.T.S. **10**

HOOD #	1 OF 1	MODEL #	STRATOVENT SVBD2
LENGTH (IN): 6'-3"	WIDTH (IN): 36"	HEIGHT (IN): 14"	
EXHAUST CFM:	1050	SUPPLY CFM:	BY RTU-SEE M1.0
EXHAUST SP:	0.9" (HOOD+DUCT)	SUPPLY SP:	NA
EXHAUST FPM:	1512	SUPPLY FPM:	NA
EXH. SIZE:	10"X10"	SUP SIZE:	NA
FILTERS: (4)	16" X 16"	HOOD WEIGHT:	300 LBS
FIRE SUPPRESSION:	ANSUL-R102	FILTER TYPE:	STAINLESS BAFFLE
LIGHT QTY: (3)	A19/ CFL	CONTROL SWITCH:	BY OTHERS

DESIGN NOTES:
- STRATOVENT HOODS ARE ETL LISTED TO UL-710 STANDARDS, 3054804-001
- MODEL SVBD2 IS A NON-CANOPY HOOD, "LISTED" VALUES ARE UTILIZED FOR AIRFLOW, OVERHANGS AND TEMPERATURE RATINGS.
- 18/20 GAUGE MINIMUM S/S ON EXPOSED SURFACES PER NFPA.
- HOOD IS PRE-PIPED FOR ANSUL R102, FIELD HOOKUP BY OTHERS
- INSTALLER TO REVIEW ELECTRICAL SHEETS FOR HOOD AND FAN WIRING. STRATOVENT DOES NOT PROVIDE A CONTROL BOX IN THE "BASE" PACKAGE.





3" INTEGRAL REAR STAND-OFF. FACTORY INSULATED. HOOD ASSEMBLY IS LISTED AND LABELED FOR ZERO CLEARANCE TO COMBUSTIBLE IN THE REAR. ARCHITECT MUST VERIFY COMPLIANCE WITH ALL LOCAL CODES CONCERNING CLEARANCES.

HOOD DETAIL 1.

PLAN VIEW

27" TALL DUCT ENCLOSURE PANELS, FRONT, LEFT & RIGHT SIDES (PROVIDED WITH HOOD, GC INSTALLED).

TOP EDGE OF HOOD.

LOWER, LEADING EDGE OF HOOD, 71" ABOVE FINISHED FLOOR.

TRIANGLE, END PANELS, PROVIDED BY STRATOVENT, SEE SIDE VIEW DETAIL. FIELD INSTALLED BY GC.

106"H X 111"L, BACKSPLASH, COVERING HOOD WALL AND 18" BEYOND THE HOOD. MINIMUM 20 GA. STAINLESS STEEL PROVIDED BY HOOD VENDOR.

TOP OF S/S BACKSPLASH, SLIGHTLY ABOVE DROP CEILING.

8'-10" HIGH, DROP CEILING (TYPICAL). HOOD PROVIDER MUST BE NOTIFIED IF CEILING HEIGHT VARIES TO ADJUST TRIM HEIGHT. VERIFY WITH ARCHITECTURAL SHEETS

HOOD DETAIL 2: 42"L x 3"H, FACTORY ATTACHED MOUNTING CHANNEL FOR CUSTOMER SUPPLIED TIMERS. DUAL 115V/1PH OUTLET FACE MOUNTED ABOVE CHANNEL WITH J-BOX ON TOP OF HOOD.

STRATOVENT
REDDING, CA - RALEIGH, NC
800-474-0037 - WWW.STRATOVENT.COM - 251-490-6114
(UL/ULC-710 Standard) (NSF/ANSI Standard 2)
ETL-LISTED FILE #3054804-001 / TESTED TO UL-710

FRONT VIEW

UPDATED: 6FT-3IN LONG VERSION, 10-10-18 JJ

TACO BELL HOOD DETAIL N.T.S. **2**

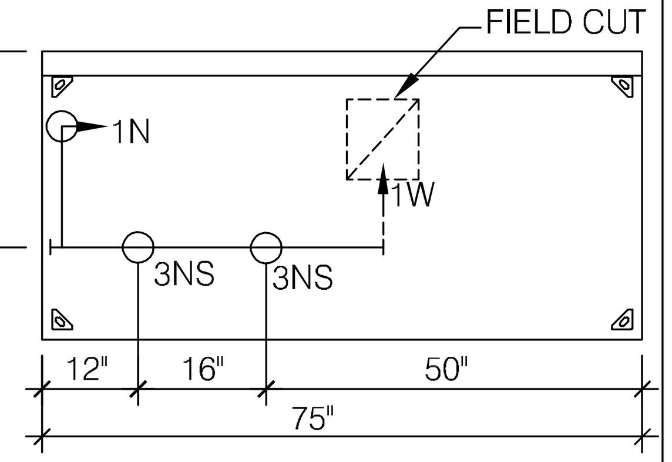
PROJECT: TACO BELL

System Size: ANSUL-3.0 Gallons Total, R102
Flow Points: 8 Design, 11 (max)

Hood #1: 6'-6" L x 36" W x 14" H
Exhaust Riser Size: 10" x 10"

3.0 GA. R102 ANSUL SYSTEM

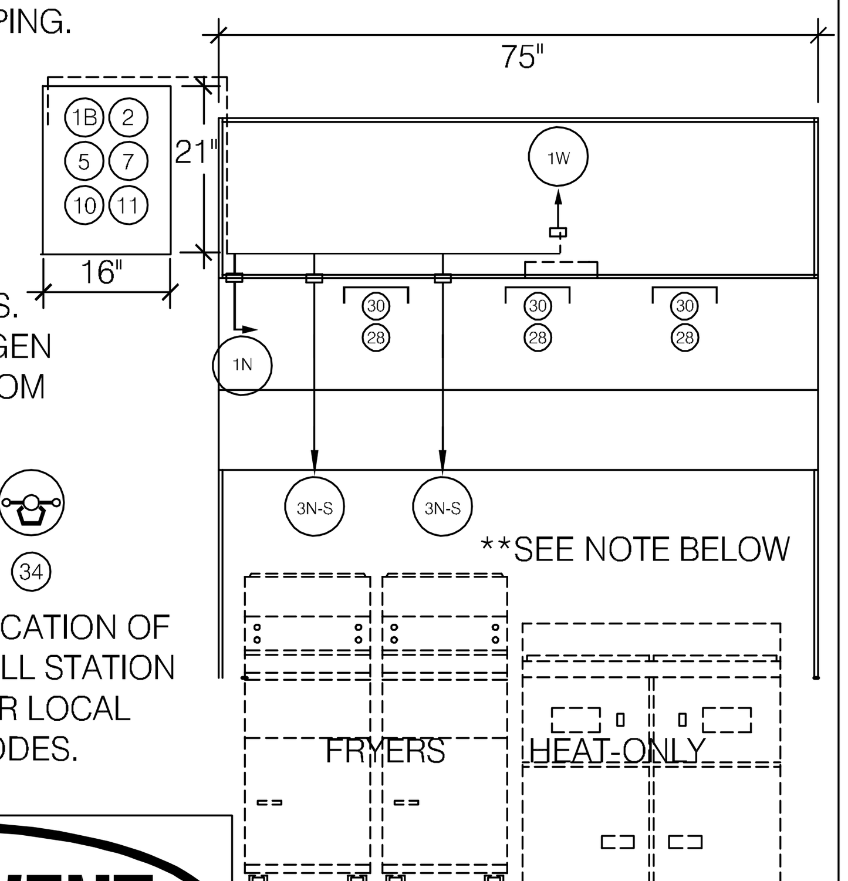
8 FLOW POINTS



————	FACTORY PIPING
- - - - - -	FIELD PIPING

PLAN VIEW

NOTES
- FIELD PIPE DROPS AS SHOWN: SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY STRATOVENT FOR HOOD-BASED PIPING.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE, MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE.
- ALL NOZZLE HEIGHT AND PLACEMENT TO BE DETERMINED BY INSTALLER AND AHJ PER ANSUL GUIDELINES.
- ALL PIPING TO BE 3/8" SCH 40 BLACK IRON.
- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.
- SYSTEM INSTALLATION AND FINAL HOOKUP SOURCED BY GEN CONTRACTOR. SYSTEM PARTS OPTIONALLY PURCHASED FROM STRATOVENT BY OWNER OR G.C..



LEGEND – WALL MOUNTED ANSUL SYSTEM

1B	3.0 GALLON TANK
2	AUTOMAN RELEASE
5	ANSULEX LIQUID AGENT (3.0 GAL.)
7	CARTRIDGE (101-20)
10	TEST LINK
11	DOUBLE MICROSWITCH
1W	NOZZLE ASSEMBLY (419336)
1N	NOZZLE ASSEMBLY (419335)
3N	NOZZLE ASSEMBLY (419338)
28	DETECTOR BRACKET
30	HIGH TEMP FUSIBLE LINK
MGV	MECHANICAL GAS VALVE
34	REMOTE MANUAL PULL STATION
S	SWIVEL ADAPTOR

34 LOCATION OF PULL STATION PER LOCAL CODES.

STRATOVENT

PROVIDED BY: STRATOVENT
RALEIGH, NC - REDDING, CA
CONTACT: JEFF JOHNSON
PH: 251-490-6114, Fax: 919-573-4251
JEFF.JOHNSON@STRATOVENT.COM

FRONT VIEW

**THE ABOVE LAYOUT SHOWS PIPING FOR 2 FRYERS (LEFT END) OF HOOD. FOR "REVERSE" LAYOUT SITES, THE "3N" NOZZLES WOULD BE FACTORY PIPED ON THE RIGHT END OF THE HOOD.

REVISED: 10-10-2018

TACO BELL HOOD FIRE SUPRESSION SCHEDULE N.T.S. **16**

1. Hoods shall be constructed of minimum 20 gauge stainless steel with # 3 polish. All unexposed surfaces shall be constructed of minimum 18 gauge aluminized steel.
2. UL classified aluminum or stainless steel baffle-type filters shall be easily removed for cleaning. Filter housing shall terminate in a pitched grease trough that drains into a removable stainless steel grease cup.
3. UL listed and NSF approved vapor proof incandescent light fixtures pre-wired to junction box at top of hood in accordance with NEC 70.
4. Pre-piped fire suppression systems shall be located on the top of the hood and provided with the hood or by a certified technician. Final location of all nozzles and fire suppression drops to be locally approved and inspected.
5. Hood(s) shall be fabricated in accordance with NFPA Bulletin #96 and shall bear the NSF Seal of Approval. Hoods shall be listed under UL 710 EXHAUST HOODS FOR COMMERCIAL COOKING EQUIPMENT, Certified by ETL under FILE# 3054804-001.

THIS HOOD DESIGN IS BASED UPON STRATOVENT, MODEL SVND2. MANUFACTURED BY

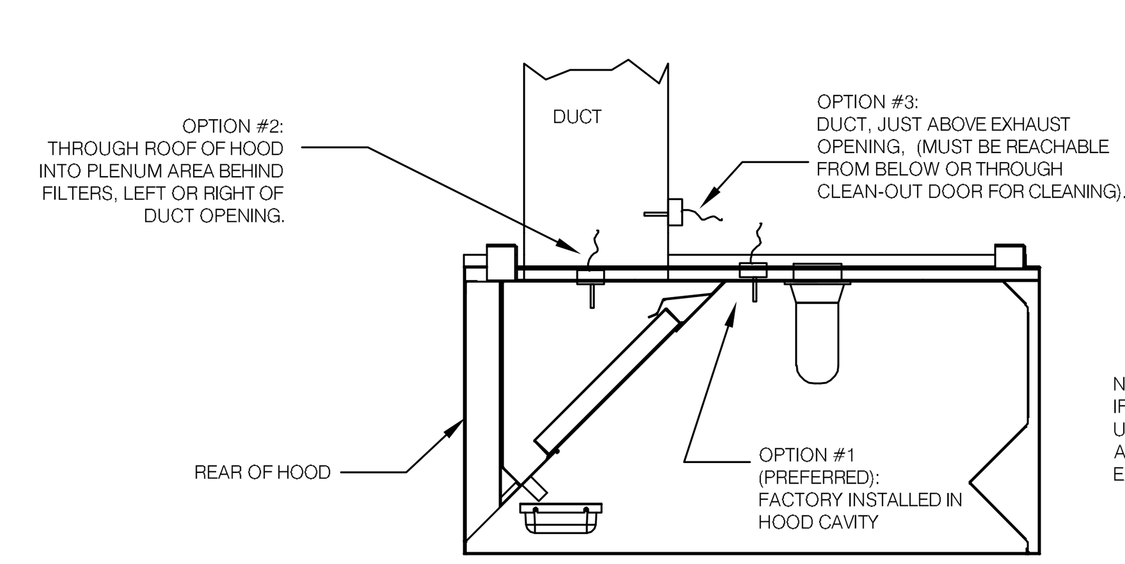
STRATOVENT VENTILATION HOODS
RALEIGH, NC 27616
CONTACT: JEFF JOHNSON, 251-490-6114

HOOD NOTES AND SPECS (TYP) N.T.S. **6**

INSTALLATION: DUCT TEMPERATURE SWITCH

HOOD DETAIL

STRATOVENT



NOTE: IF SENSOR IS FIELD INSTALLED, THE KIT SHIPS WITH UL-LISTED QUICK SEALS MUST BE USED TO SEAL ANY HOOD OR DUCT PENETRATIONS (SEE EXPLODED PARTS VIEW).

SIDE VIEW

ADDITIONAL QUESTIONS??
CONTACT, STRATOVENT VENTILATION HOODS,
919-573-4250 - 251-490-6114
JEFF.JOHNSON@STRATOVENT.COM

MODIFIED: 10-10-2018

HEAT SENSOR LOCATION **12**

LOW-PROFILE HOOD

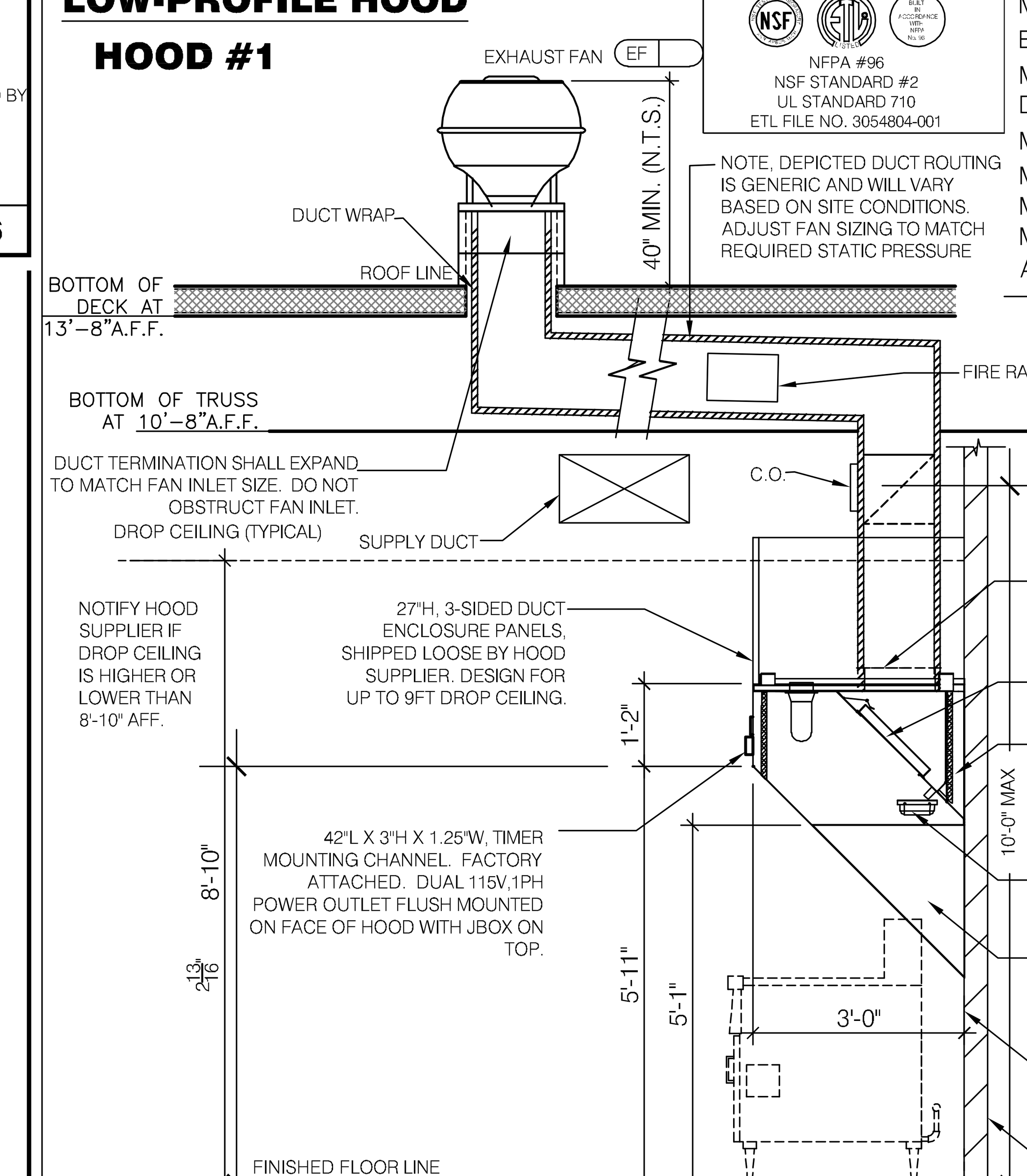
HOOD #1

STRATOVENT HOODS BUILT IN COMPLIANCE WITH
NFPA #96
NSF STANDARD #2
UL STANDARD 710
ETL FILE NO. 3054804-001

NON-CANOPY HOOD DESIGN BASED ON:

MANUFACTURER: STRATOVENT, MODEL SVBD2
ETL LISTED UL/ULC-710, ULC-S646: # 3054804-001
MIN. "LISTED" AIRFLOW: 150 CFM PER LINEAR FT
DESIGN AIRFLOW: 168 CFM PER LINEAR FT
MAX. DIST. ABOVE COOK SURFACE: 47"
MAX. COOK SURFACE FRONT UNDERHANG: - 3"
MIN. SIDE COOK SURFACE OVERHANG: 0"
MAX. APPLIANCE COOKING TEMPERATURE: 450 F
APPLIANCE RATING: MEDIUM

HOOD DESIGN QUESTIONS?
STRATOVENT KITCHEN VENTILATION
PHONE: 251.490.6114
JEFF.JOHNSON@STRATOVENT.COM



NOTE, DEPICTED DUCT ROUTING IS GENERIC AND WILL VARY BASED ON SITE CONDITIONS. ADJUST FAN SIZING TO MATCH REQUIRED STATIC PRESSURE

DUCT TERMINATION SHALL EXPAND TO MATCH FAN INLET SIZE. DO NOT OBSTRUCT FAN INLET.

DROP CEILING (TYPICAL)

NOTIFY HOOD SUPPLIER IF DROP CEILING IS HIGHER OR LOWER THAN 8'-10" AFF.

27"H, 3-SIDED DUCT ENCLOSURE PANELS, SHIPPED LOOSE BY HOOD SUPPLIER. DESIGN FOR UP TO 9FT DROP CEILING.

42"L X 3"H X 1.25"W, TIMER MOUNTING CHANNEL. FACTORY ATTACHED. DUAL 115V,1PH POWER OUTLET FLUSH MOUNTED ON FACE OF HOOD WITH JBOX ON TOP.

FIELD CUT OPENING BY INSTALLER, TRANSITION PER PLANS. IF SELECTED, A HOOD MOUNTED HEAT SENSOR WILL BE FACTORY INSTALLED IN ROOF OF HOOD FOR AUTOMATIC ACTIVATION.

16"H, UL-LISTED, S/S BAFFLE FILTERS.

3" INTEGRAL REAR STAND-OFF, FACTORY INSULATED. HOOD ASSEMBLY IS LISTED FOR ZERO CLEARANCE TO COMBUSTIBLE IN THE REAR. COMPLIANCE WITH ALL LOCAL CODES VERIFIED BY ARCHITECT.

GREASE CUP

26" X 26" END PANELS, SHIPPED LOOSE AND GC INSTALLED. PROVIDED BY HOOD VENDOR.

20 GA. MIN S/S WALL PANEL COVERING REAR WALL. EXTENDING 18" BEYOND THE HOOD. PROVIDED BY STRATOVENT.

SIDE WALL.

SIDE VIEW

UPDATED: 6FT-3IN LONG VERSION, 10-10-18 JJ

TACO BELL HOOD SECTION NTS **4**

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SAINT LOUIS / DALLAS / LAS VEGAS / ORLANDO
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

PE10303015 STATE OF INDIANA PROFESSIONAL ENGINEER 8/10/20

△ OWN/STATE COMMENTS 08.10.20

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

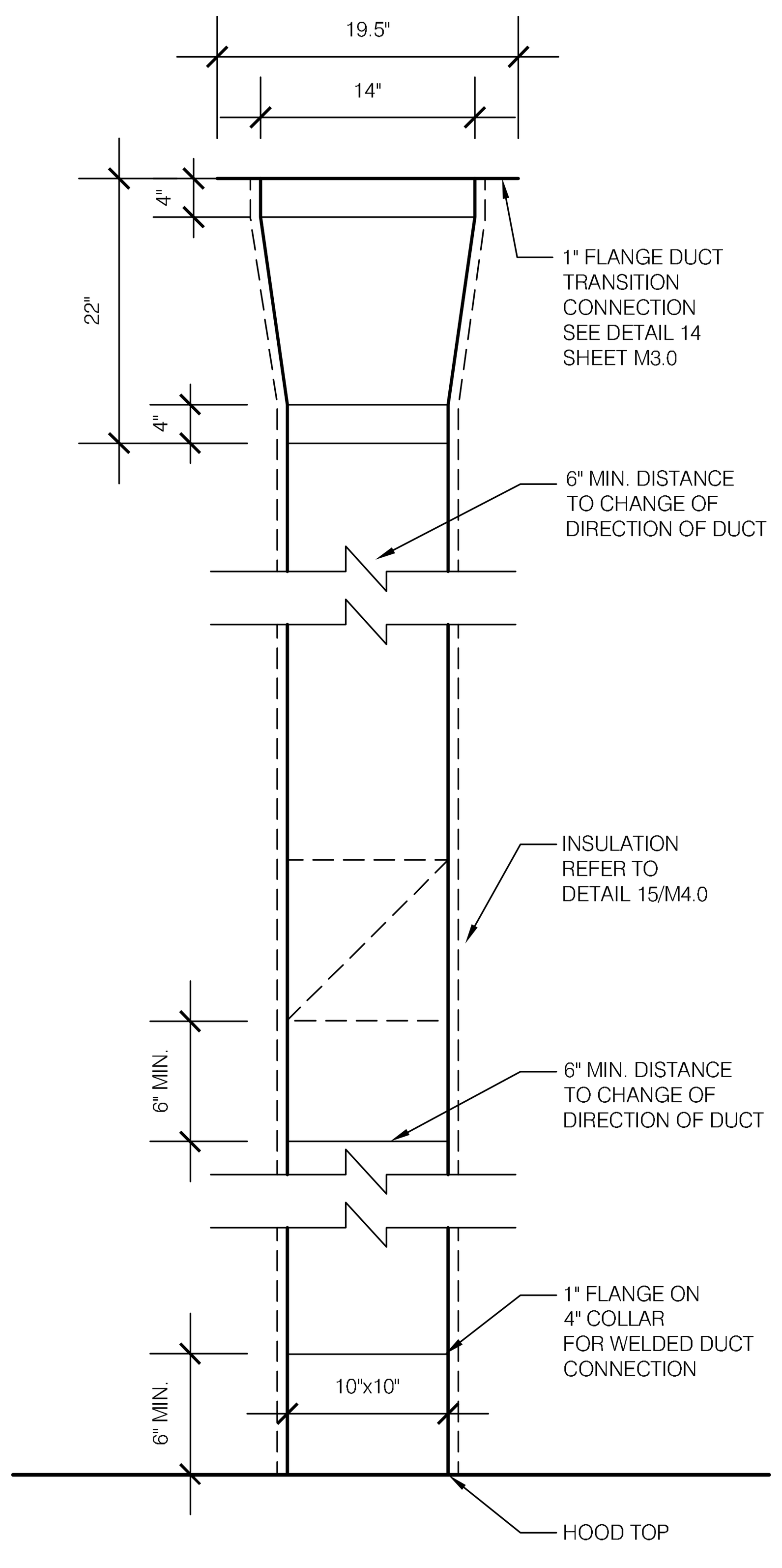
TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

EXPLORER LITE
MEDIUM40

HOOD DRAWINGS PLANS AND SECTIONS

M3.0

6/29/20

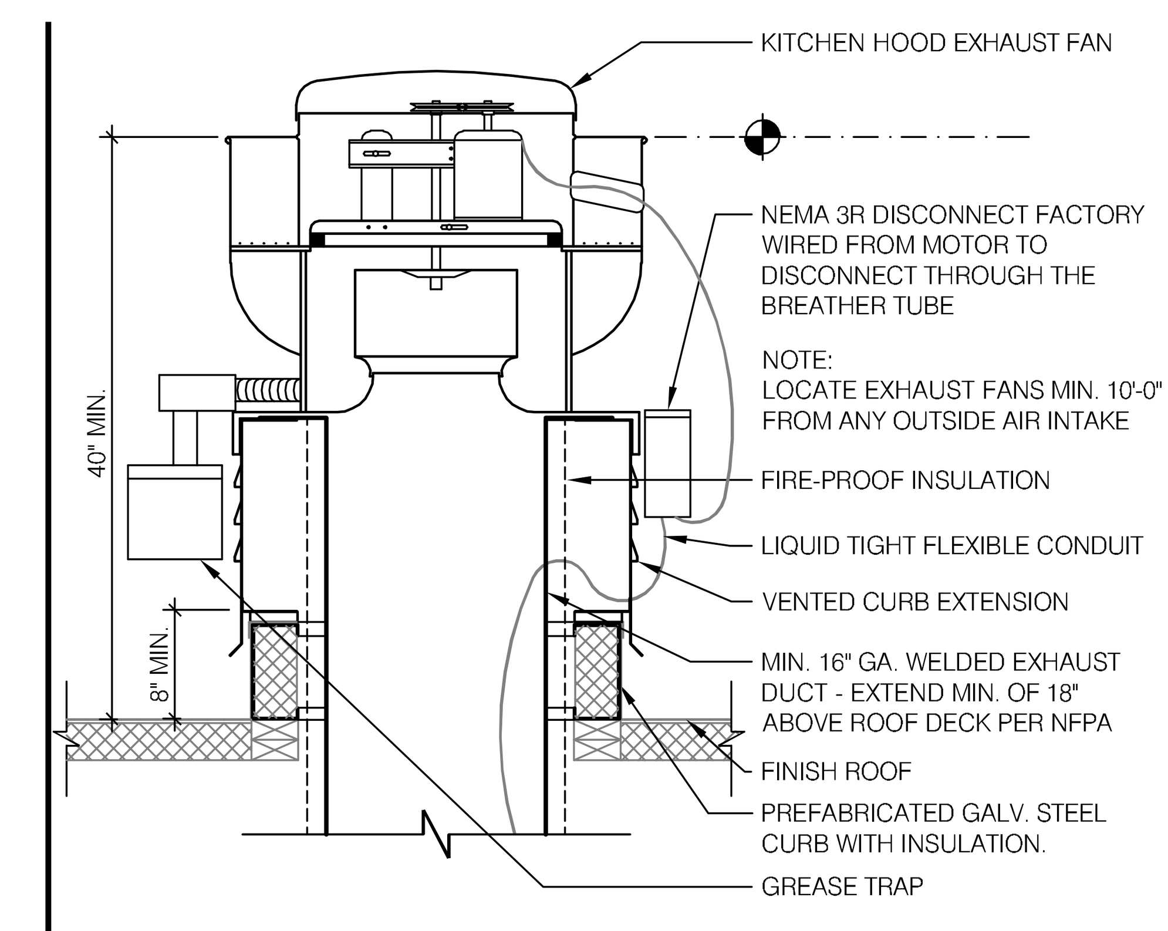


TB HOOD DUCT TRANSITION N.T.S. **18**

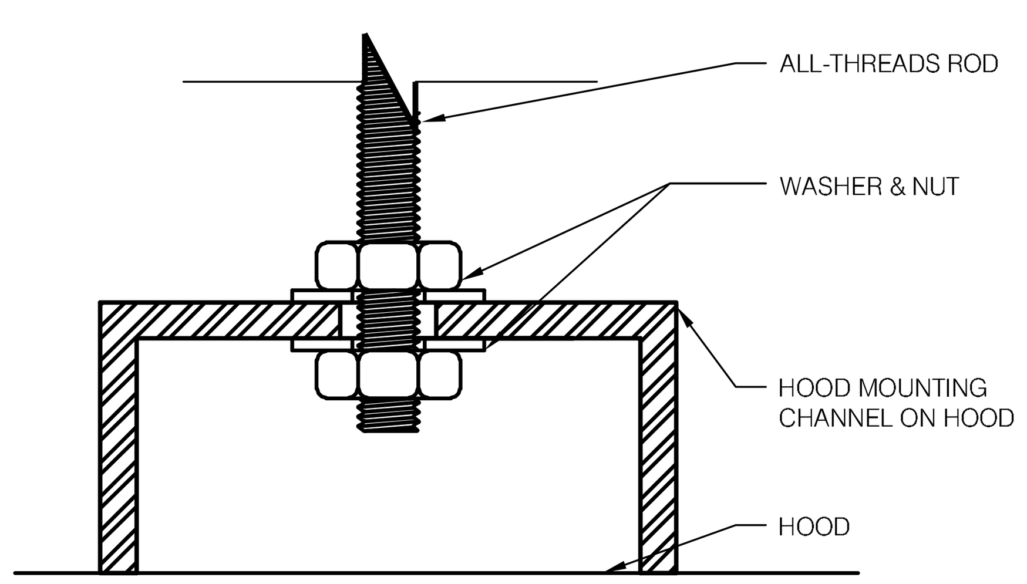
NOT USED **13**

NOT USED **9**

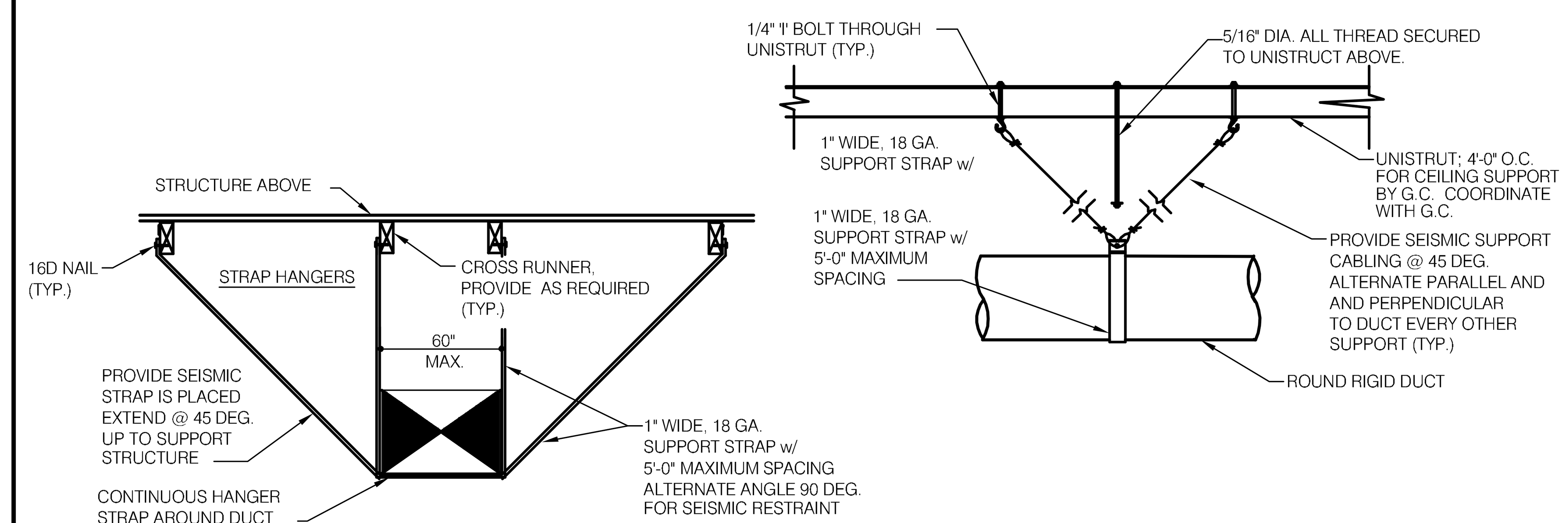
NOT USED **5**



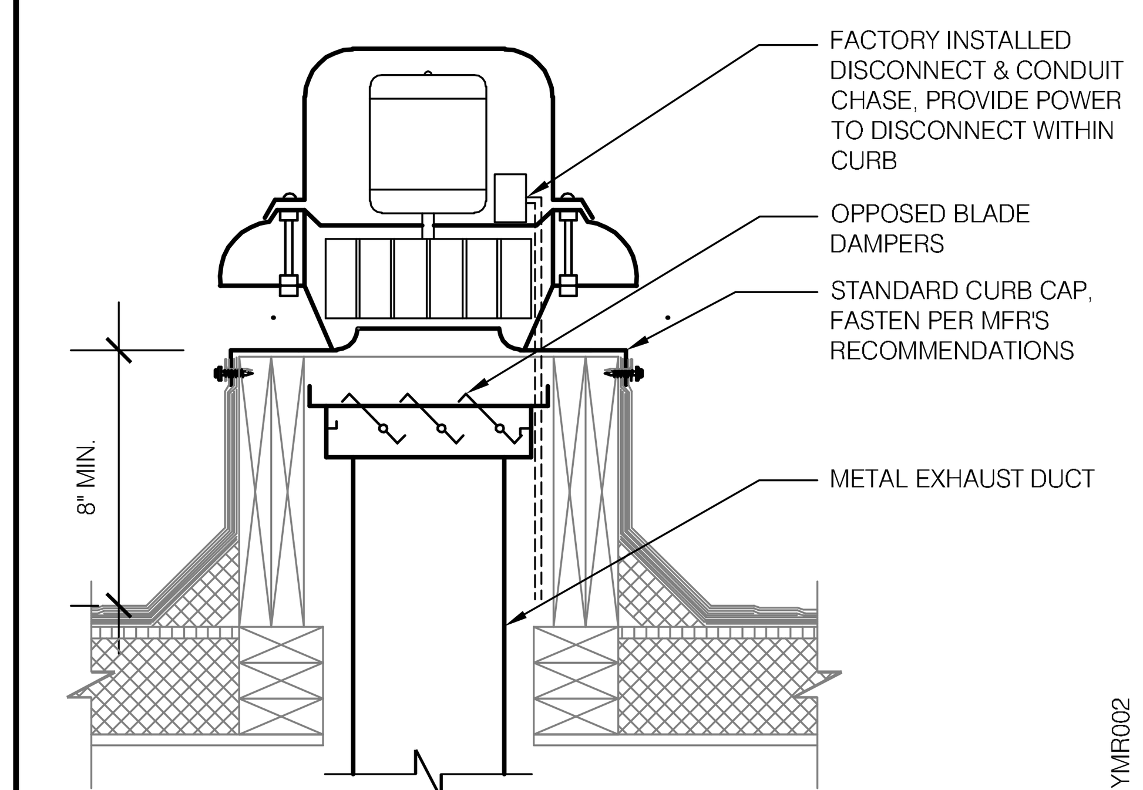
EXHAUST FAN EF-1 N.T.S. **1**



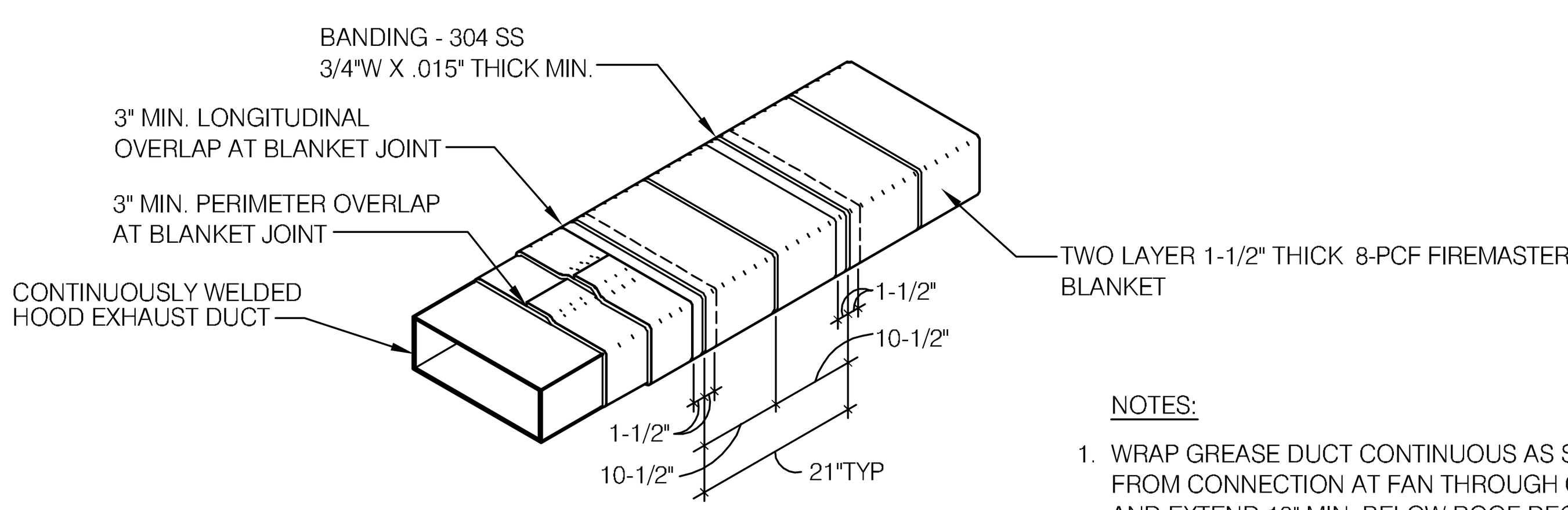
BOLT CONNECTION TO HOOD N.T.S. **14**



DUCT SUPPORT DETAIL N.T.S. **6**



RESTROOM FAN (EF-2) N.T.S. **2**

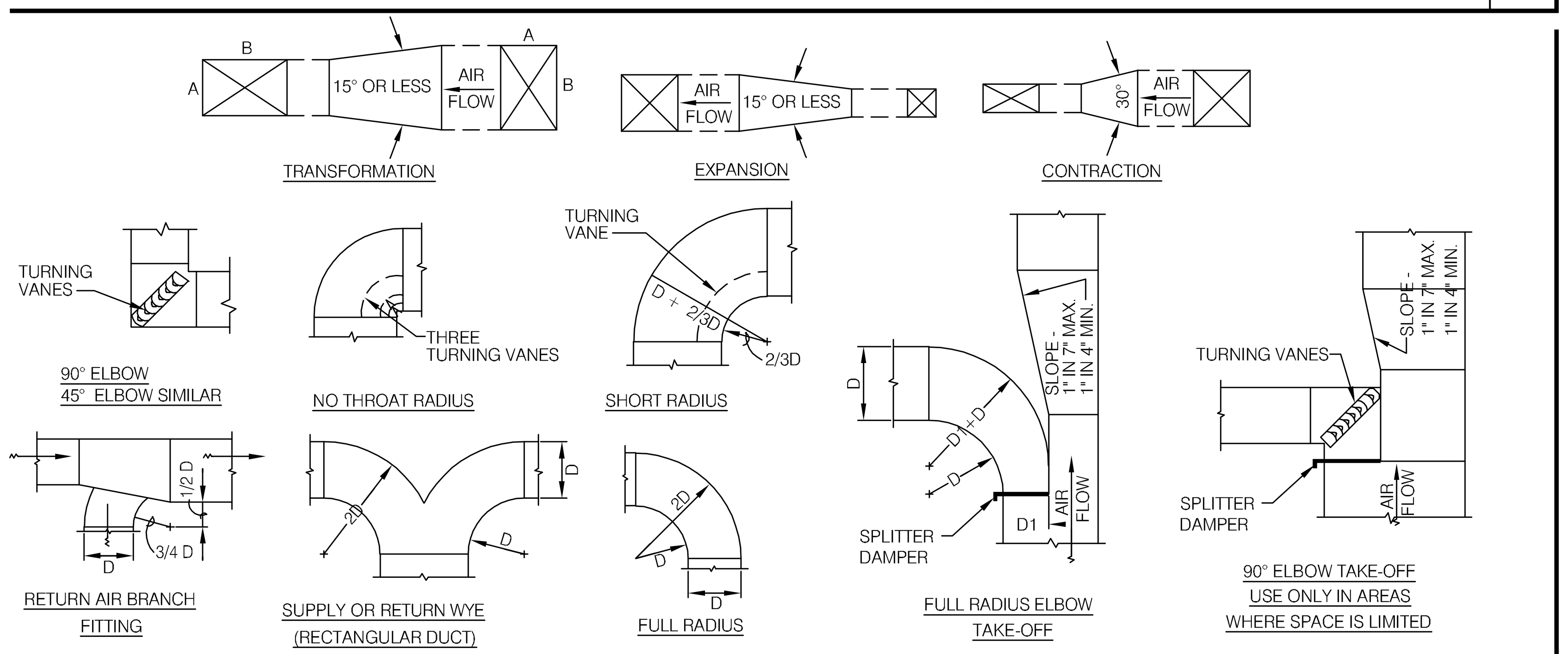


BANDING REQUIREMENTS: USE 304 STAINLESS STEEL BANDS A MAXIMUM 1-1/2" FROM BLANKET EDGE AND SPACED A MAXIMUM OF 10-1/2" ON CENTER.

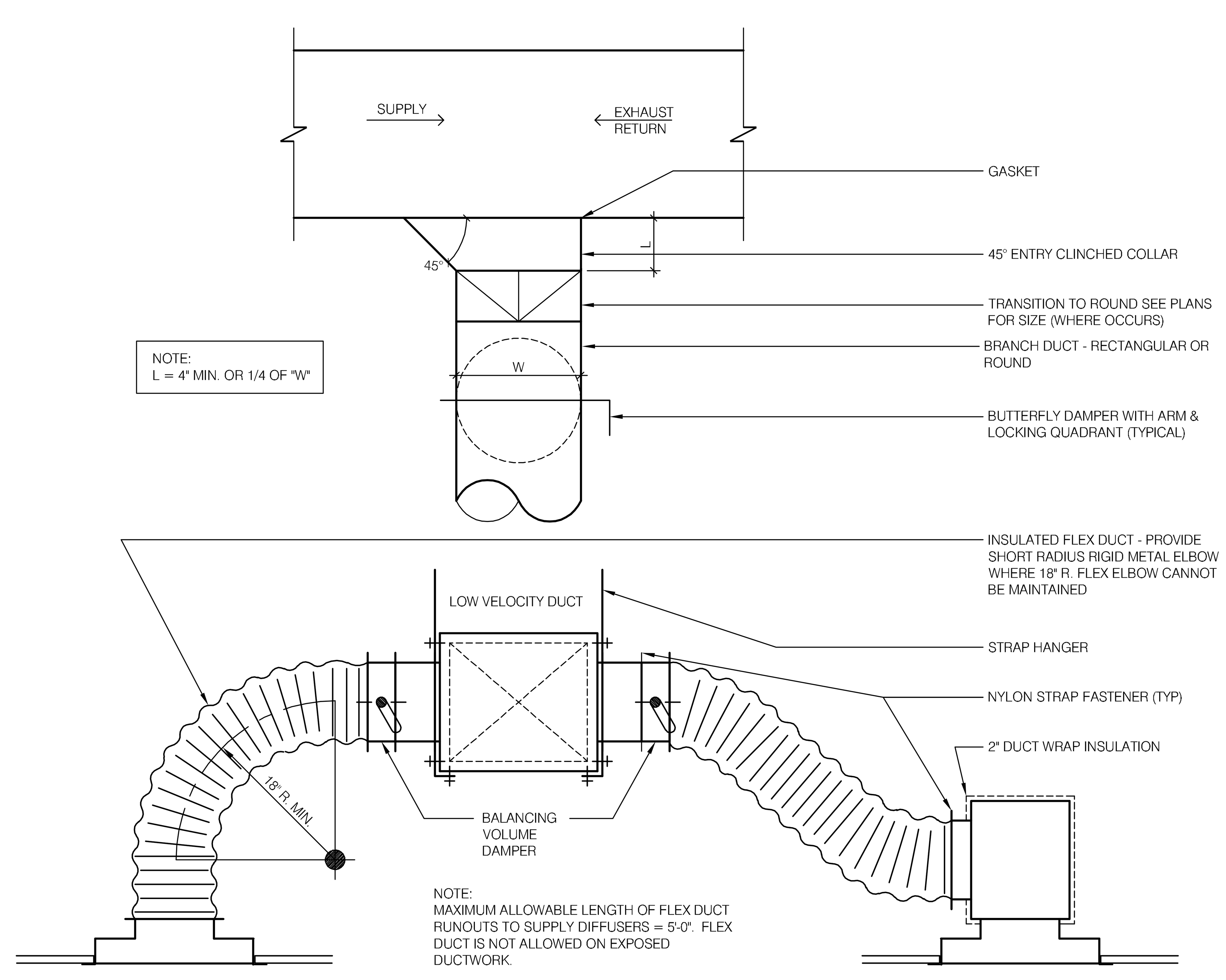
NOTES:

1. WRAP GREASE DUCT CONTINUOUS AS SHOWN FROM CONNECTION AT FAN THROUGH CURB AND EXTEND 18" MIN. BELOW ROOF DECK.
2. FOR HORIZONTAL RUNS OF EXHAUST DUCTS PROVIDE TYPICAL TRAPEZE SUPPORT SYSTEM WITH 1/2" HANGER RODS A MAXIMUM OF 6" FROM INSULATION EDGE. TRAPEZE SUPPORTS SHALL BE SPACED A MAXIMUM OF 60" ON CENTER FROM CENTERLINE OF VERTICAL EXHAUST DUCT.
3. SLOPE HORIZONTAL EXHAUST DUCT RUNS A MINIMUM OF 1/4" PER FOOT (2% SLOPE) TOWARDS EXHAUST HOOD.
4. PROVIDE INSULATED ACCESS DOOR OR PANEL NEAR MID POINT OF EXHAUST DUCT RUN FOR CLEANING AND INSPECTION OF DUCT. PROVIDE AN APPROVED SIGN ON ACCESS DOOR OR PANEL WHICH READS " ACCESS PANEL DO NOT OBSTRUCT"

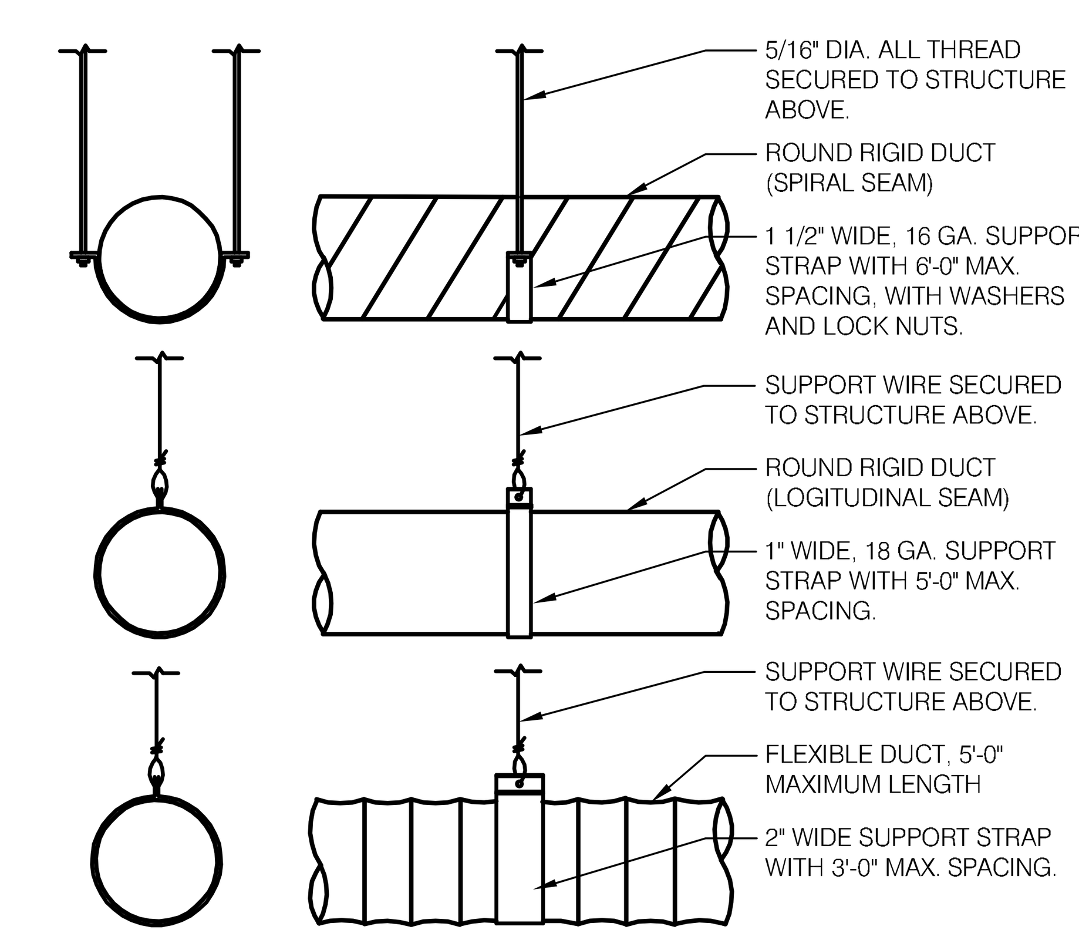
KITCHEN HOOD EXHAUST DUCT SYSTEM DETAIL N.T.S. **15**



TYPICAL DUCTWORK DETAILS N.T.S. **16**



CEILING DIFFUSER CONNECTIONS N.T.S. **8**



DUCT SUPPORT DETAIL **4**

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TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

EXPLORER LITE
MEDIUM40

MECHANICAL AND HOOD DETAILS

M4.0

6/29/20

Installation, Start Up and Pre-Commissioning Checklist

☐ = Responsible Party

Initial When Completed

Standard Unit	eFlex	Reference #	PROCESS	GC - General Contractor	EC - Electrical Contractor	MC-Mechanical Contractor	PC-Plumbing Contractor	AB-Air Balance Agency	Remarks
		1	**Package Units**						
X	X	2	Reference and abide to all instructions in manufacturers Installation, Startup, Operation and Maintenance literature	☐	☐	☐	☐	☐	
X	X	3	Units are set level			☐			
X	X	4	Unit and plenums align to each other			☐			
X	X	5	Units and plenums are properly sealed to each other			☐			
X	X	6	All loose shipped components are relocated and installed per manufacturers instructions			☐			
X	X	7	a) economizer eyebrow, skirts and mist eliminator installed			☐			
X	X	8	b) economizer dampers and linkage installed and operable			☐			
X	X	9	c) economizer wiring connected and completed			☐			
X	X	10	d) relief damper or power exhauster installed and operable			☐			
X	X	11	e) smoke detectors and sample tubes relocated and installed per manufacurers instructions			☐			
X	X	12	Utilities are installed and ON to the units	☐	☐	☐	☐		
X	X	13	a) power on and breakers sized to unit rating		☐				
X	X	14	b) phases correct		☐				
X	X	15	c) gas on				☐		
X	X	16	d) gas gooseneck or pipe capacity meets or exceeds unit capacity				☐		
X	X	17	e) condensate line is piped per plan				☐		
X	X	18	f) condensate vent is on leaving side of trap				☐		
	X	19	Discharge Temperature Limit potentiometer is set to the 9 o'clock position			☐			
X	X	20	No thermostat, smoke detector, remote enunciator or any other wiring runs though the plenums		☐	☐			
X	X	21	Manufacturers start up procedure has been followed and all units evaporator fan operates through all fan stages per manufacturers			☐			
X	X	22	Manufacturers start up procedure has been followed and all units cycle through all heating stages per manufacturers instructions			☐			
X	X	23	Manufacturers start up procedure has been followed and all units cycle through all cooling stages per manufacturers instructions			☐			
X	X	24	Manufacturers start up procedure has been followed and all units cycle through all economizer stages per manufacturers instructions			☐			
		25							
		26							
		27							
		28	**Ductwork**						
X	X	29	All ductwork and registers are installed per plan			☐			
X	X	30	All starters and or take offs are radiused per plan.			☐			
X	X	31	Ductwork from the exhaust register over production line to EF-2 fan base is 100% rigid per plan			☐			
X	X	32	Balance dampers are in sleeves on axles with locking quadrant, not located in any starter collars, "T"s or "Y"s and located per plan			☐			
X	X	33	Balance damper handles are flagged to identify their location			☐			
		34							
		35							
		36	**Economizer**						
X	X	37	All mechanical components related to the economizer have been installed			☐			
X	X	38	"Blank off" plate under economizer eyebrow has been installed			☐			
X	X	39	Barometric relief damper operates freely			☐			
X	X	40	Input sensors for the Economizer have been properly located and connected to the Economizer			☐			
X	X	41	Economizer has been tested to perform "Free" cooling when ambient conditions are below 55 degrees			☐			
X	X	42	Mechanical cooling stages on when Economizer cooling is not available			☐			
X	X	43	Mechanical cooling stages on with the Economizer cooling when conditioned space temperature rises and requires two stage cooling			☐			
X	X	44	Economizer damper positions to minimum damper position when set			☐			
		45							
		46							
		47	**Smoke Detectors**						
X	X	48	Smoke detector option has been included in package unit			☐			
X	X	49	Return side smoke detector has been relocated from its shipping position to the factory provided installation location in the return section of the package unit			☐			
X	X	50	All smoke detector sample tubes are properly located per manufacturers design			☐			
X	X	51	The return smoke detector in each unit has been tested for unit shutdown			☐			
X	X	52	The supply smoke detector in each unit has been tested for unit shutdown			☐			
		53							
		54	**Remote Smoke Detector Enunciators and Resets**						
X	X	55	A remote smoke detector enunciator and reset has been installed in the managers office for each package unit			☐			
X	X	56	RTU 1 supply side smoke detector alarm sets off the visual and audible remote enunciator alarms and shuts down RTU 1			☐			
X	X	57	After triggering RTU 1 supply side smoke detector alarm, resetting the remote smoke detector reset for RTU 1 returns RTU 1 to normal operation			☐			
X	X	58	RTU 1 return side smoke detector alarm sets off the visual and audible remote enunciator alarms and shuts down RTU 1			☐			
X	X	59	After triggering RTU 1 return side smoke detector alarm, resetting the remote smoke detector reset for RTU 1 returns RTU 1 to normal operation			☐			
X	X	60	RTU 2 supply side smoke detector alarm sets off the visual and audible remote enunciator alarms and shuts down RTU 2			☐			
X	X	61	After triggering RTU 2 supply side smoke detector alarm, resetting the remote smoke detector reset for RTU 2 returns RTU 2 to normal operation			☐			
X	X	62	RTU 2 return side smoke detector alarm sets off the visual and audible remote enunciator alarms and shuts down RTU 2			☐			
X	X	63	After triggering RTU 2 return side smoke detector alarm, resetting the remote smoke detector reset for RTU 2 returns RTU 2 to normal operation			☐			
		64							
		65							
		66							
		67							

Installation, Start Up and Pre-Commissioning Checklist

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		68							
		69	**Zonesensor**						
	X	70	Baysens 135 Zonesensor is installed			☐			
	X	71	Zonesensor to unit wiring is landed on proper terminals per detail			☐			
	X	72	Remote sensor wiring is landed on proper terminals (8 and 9) of Zonesensor per detail			☐			
	X	73	Jumper on back of Zonesensor is configured for remote sensor			☐			
	X	74	Zonesensor is set up for eFlex operation			☐			
	X	75	a)Fahrenheit selected			☐			
	X	76	b)Whole degrees selected			☐			
	X	77	c) Dual Setpoint selected			☐			
	X	78	d)Heat/Cool/Auto/Off selected			☐			
	X	79	e)Occupancy (Timed Override) Disabled			☐			
	X	80	Zonesensor is programmed to Taco Bell parameters			☐			
		81							
		82	**Thermostat**						
X		83	Thermostats are wired to package units per thermostat and unit wiring diagrams			☐			
X		84	Package units equiped with two stage cooling have each cooling stage individualy wired and controled from their thermostat.			☐			
X		85	Package units equiped with two stage heating have each heating stage individualy wired and controled from their thermostat.			☐			
X		86	Thermostats are wired to Interlock Control Box per Detail on plan sheet E-6			☐			
X		87	Thermostats are programmed to Taco Bell parameters			☐			
		88	**Hoodstat**						
X	X	89	Hoodstat has been installed in duct or hood per plan			☐			
X	X	90	Hoodstat is wired to terminals 1 and 2 of the Interlock Control Box		☐	☐			
X	X	91	Hoodstat microswitch closes at 85 degrees			☐			
		92							
		93							
		94	**Interlock**						
X	X	95	Unswitched power is provided to H=HOT and N=Neutral terminals in the Control Box		☐				
X	X	96	Hoodstat wires are landed on terminals 1 and 2 of the Control Box		☐				
X	X	97	Terminal 16 of Control Box is wired to terminal 11 of RTU 1 RTRM (J6)			☐			
X	X	98	Terminal 17 of Control Box is wired to terminal 12 of RTU 1 RTRM (J6)			☐			
X	X	99	Terminal 19 of Control Box is wired to terminal 11 of RTU 2 RTRM (J6)			☐			
X	X	100	Terminal 20 of Control Box is wired to terminal 12 of RTU 2 RTRM (J6)			☐			
X	X	101	"Occupied" switch is installed so that it is "Hot" when switch is in "Unoccupied or OFF" position and landed on terminal 7 of the Control Box		☐				
X	X	102	"Occupied" switch in "ON" position activates Kitchen Lights, EF-1, RTU 1 and		☐				
X	X	103	"Occupied" switch in "OFF" position turns off Kitchen Lights, Dining Room lights, EF-2 and starts time delayed off of EF-1 and RTU 1 &2 evaporator fans (subject to Hoodstat and or Zonesensor override)		☐				
		104							
		105							
		106							
		107	**Ansul Shutdown**						
X	X	108	Metal jumper clip on EPO terminals 5 and 6 of RTU 2 LTB 1 has been removed			☐			
X	X	109	Terminals 5 and 6 of RTU 2 LTB 1 are wired to "Closed when Cocked"			☐			
X	X	110	Upon activation of the fire suppression system discharge (microswitch opens) RTU 2 immediately shuts off			☐			
		111							
		112							
		113							
		114	**Lighting**						
X	X	115	A 3 way switch, installed as a single switch and open in the UP throw position, has been installed as an "Occupied" switch in the managers office		☐				
X	X	116	Up position of "Occupied" switch activates kitchen lighting via Control Box		☐				
X	X	117	Up position of "Occupied" switch provides power, via the Control Box, to the Dining Room light switch in the managers office		☐				
X	X	118	Photocell is wired to the Greengate Box per detail		☐				
X	X	119	Exterior lights are wired to the Greengate Box per detail		☐				
X	X	120	Sign lights are wired to the Greengate Box per detail		☐				
X	X	121	Greengate Box is programmed to Taco Bell parameters		☐				
X	X	122	Manual override of Greengate box activates lighting circuits		☐				
		123							
		124							
		125							
		126							
		127	**Air Balance Supplement**						
X	X	128	Balancing performed in accordance to ASHRAE Standard 111-2008, NEBB, TABB or AABC standards					☐	
X	X	129	Perform full fan speed adjustments after exhaust fan adjustments and supply air distribution adjustments have been made					☐	
X	X	130	Perform outside air adjustment after all other balance adjustments are complete					☐	
X	X	131	Perform outside air adjustment at full evaporator fan speed operating point					☐	
	X	132	Perform outside air adjustment at medium fan speed operating point					☐	
	X	133	Perform outside air adjustment at low fan speed operating point					☐	
X	X	134	Verify lobby doors closures have been adjusted for ADA compliance					☐	
X	X	135	Verify lobby doors closure operation during full economizer function of both package units and note result in air balance report					☐	
X	X	136	Verify pressure relief system operation in full economizer operation					☐	
X	X	137	Adjust power exhauster "ON" and "OFF" positions to mitigate door closure issues. Note if no power exhauster is available.					☐	
X	X	138	Provide copy of air balance report to Commissioning Agent					☐	
		139							
		140							
		141							
		142							

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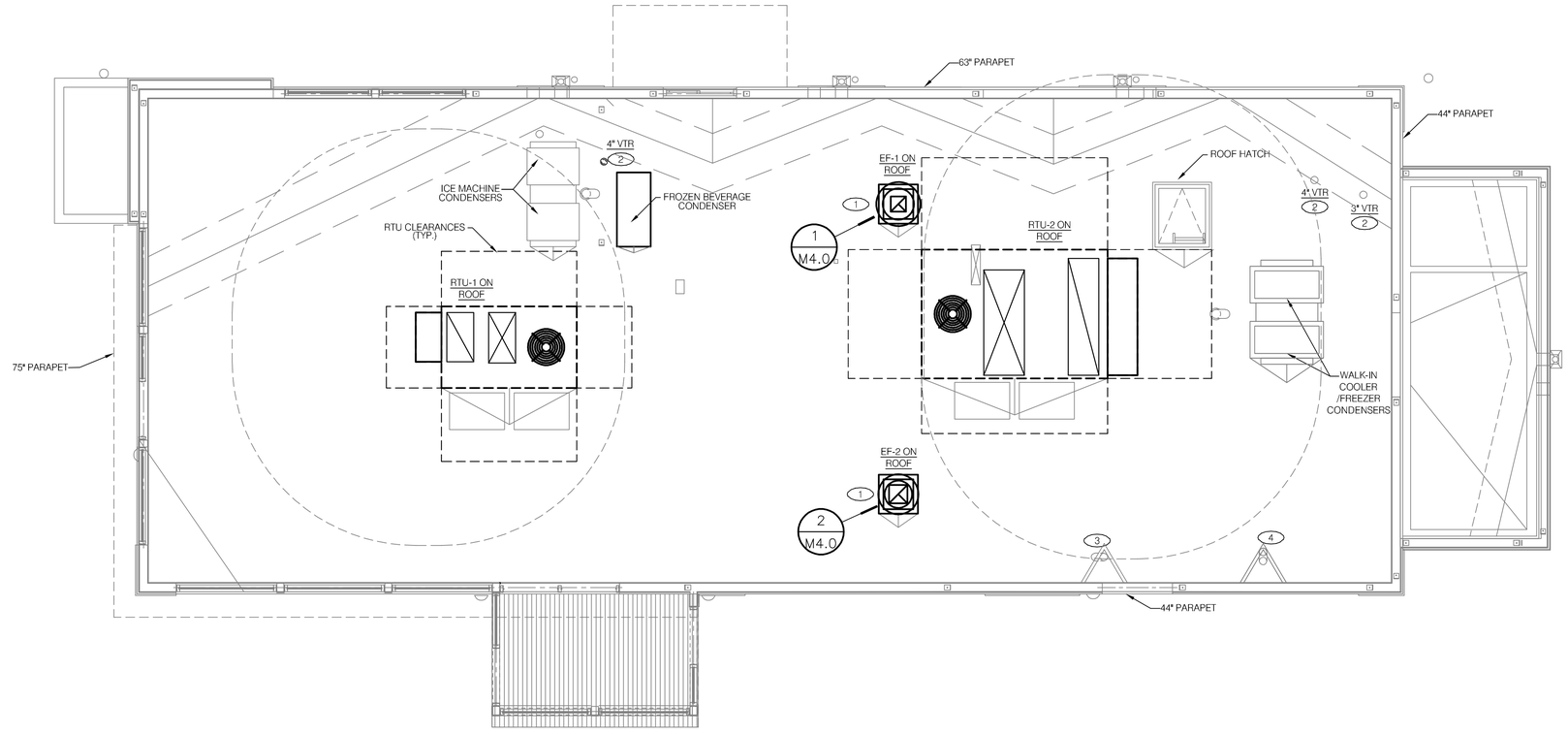
1 TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

INSTALLATION START-UP PRE-COMM CHECK LIST

M5.0

6/29/20



12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

MEP ROOF PLAN 1/4"=1'-0" **A**

1. MAINTAIN AT LEAST 10' BETWEEN ALL EXHAUST OUTLETS AND OUTSIDE AIR INTAKES.
2. ENSURE VTR IS MINIMUM 10' FROM ALL OUTSIDE AIR INTAKES.
3. PROVIDE 3" PVC WATER HEATER INTAKE TERMINATION ON ROOF. COORDINATE WORK WITH ALL OTHER TRADES. SEE 13/A6.0.
4. PROVIDE 3" PVC WATER HEATER FLUE VENT TERMINATION ON ROOF. COORDINATE WORK WITH ALL OTHER TRADES. ENSURE OPENING IS A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES. SEE 13/A6.0.

KEY NOTES **B**

NOT USED **E**

NOT USED **F**

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REGISTERED ARCHITECT
REG. NO. PE10303015
STATE OF INDIANA
PROFESSIONAL ENGINEER
8/10/20

1	OWN/STATE COMMENTS 08.10.20
2	
3	
4	
5	

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TACO BELL
EXPLORER LITE
MEDIUM40

MP ROOF PLAN

MP1.0

6/29/20

1. SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.

2. ALL DRAWN WATER & GAS LINES SHALL BE KEPT TIGHT TO THE UNDERSIDE OF EQUIPMENT & SECURED IN PLACE.

3. VERIFY THE LOCATION OF THE SANITARY SEWER ON THE SITE PLAN AND SHALL REVISE THE SEWER SYSTEM AS REQUIRED.

4. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS IN RESTROOMS, WHERE REQUIRED BY CODES. PROVIDE DEEP SEAL TRAPS FOR FLOOR DRAINS WITHOUT TRAP PRIMERS.

5. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND THE OWNERS REPRESENTATIVE PRIOR TO ANY INSTALLATION.

6. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE INSTALLED BEHIND AN ACCESS PANEL.

7. ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKE.

8. PROVIDE GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.

9. INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE LINES TO BE CHROME PLATED.

10. PROVIDE A LEVER HANDLE GAS SHUT-OFF VALVE IN THE BRANCH PIPING OF EACH APPLIANCE OR PIECE OF EQUIPMENT, FOR EACH APPLIANCE INSTALL QUICK DISCONNECT, FLEXIBLE PIPE WHEN ALLOWED BY CODE AND RESTRAINING DEVICE FURNISHED BY OWNER. PROVIDE PRESSURE REDUCING VALVES AT EACH PIECE OF EQUIPMENT OR APPLIANCE. IF GAS PRESSURE GREATER THAN 10"/wc IS USED DOWNSTREAM FROM THE GAS METER.

11. ALL VALVES, UNIONS, ETC. SHALL BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.

12. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR PLUMBING ROUGH-IN SCHEDULE & FOR ADDITIONAL WORK TO BE FURNISHED & INSTALLED BY CONTRACTOR. ALL ROUGH-IN PLUMBING AND FINAL CONNECTIONS TO KITCHEN EQUIPMENT SHALL BE MADE BY THE CONTRACTOR U.O.N.

13. REFER TO MECHANICAL SHEETS FOR HVAC AND HOOD PLUMBING REQUIREMENTS.

14. ALL GAS LINES SHALL BE SUPPORTED SEE SPECS.

15. ALL FLOOR SINKS AND FLOOR DRAINS IN TRAFFIC AREAS SHALL BE INSTALLED FLUSH TO FLOOR SURFACE.

16. PROVIDE WATER HAMMER ARRESTOR FOR ALL HAND SINKS AND URINAL WATER LINES.

17. PROVIDE AIR GAPS FOR INDIRECT DRAINS AS REQUIRED BY CODE. AIR GAP SHALL BE MINIMUM 2 TIMES THE DIAMETER OF THE INDIRECT DRAIN.

18. PRIOR TO COMMENCING WORK ON THIS PROJECT, VERIFY DEPTH, SIZE, LOCATION AND CONDITION OF ALL EXISTING UTILITIES IN FIELD. SHOULD CONDITIONS EXIST OTHER THAN THOSE INDICATED WHICH WOULD CAUSE THE DESIGN TO BE ALTERED, CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY.

19. COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OR INTERFERENCES. CONTRACTOR SHALL REVIEW ARCHITECTURAL AND EQUIPMENT SHEETS.

20. FURNISH & INSTALL ALL BACKFLOW PROTECTION DEVICES REQUIRED BY AGENCIES HAVING JURISDICTION. BACKFLOW DEVICES REQUIRING TESTING SHALL BE INSTALLED NO HIGHER THAN 5'-0" A.F.F.

21. PROVIDE CONDENSATE DRAIN FROM A/C UNITS TO APPROVED DRAIN, GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.

22. THE OWNER OR KITCHEN EQUIPMENT SUPPLIER MAY SUBSTITUTE EQUIPMENT OR THE EQUIPMENT MAY VARY FROM WHAT IS SHOWN. THEREFORE, VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION DIRECTLY UPON THE CONTRACTOR.

23. ALL WATER LINES SHALL BE RUN OVERHEAD U.O.N.

24. ALL WATER LINES SHALL BE FLUSHED PRIOR TO CONNECTING ANY FIXTURES OR EQUIPMENT.

25. PROVIDE ESCUTCHEON PLATES AND SILICONE SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, CEILINGS, AND FLOORS. DO NOT USE CAULKS OR EXPANDING FOAMS FOR SEALANT.

26. CVPVC SCHEDULE 40 WASTE PIPE CAN BE SUBSTITUTED FOR BLACK IRON WASTE PIPE WHERE ALLOWED BY LOCAL MUNICIPALITIES.

27. PEX PLASTIC TUBING AND FITTING CAN BE USED AS AN OPTION, ALL INSTALLATION SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SHALL COMPLY WITH SECTION 605.10.1 AND SECTION 605.10.2.

GENERAL NOTES — E

SYMBOLS	ABBREV.	DESCRIPTION
	Y.B.	YARD BOX
	R.D.	ROOF DRAIN
	A.P.	ACCESS PANEL
	V.T.R.	VENT THRU ROOF
	V.B.F.	VENT BELOW FLOOR
	U.T.R.	UP THRU ROOF
	V.C.P.	VITRIFIED CLAY PIPE
	C.I.	CAST IRON
	A.C.P.	ASBESTOS CEMENT PIPE
	(N)	NEW
	(E)	EXISTING
	F.D.	FLOOR DRAIN
	H.D.	HUB DRAIN
	OFD	OVERFLOW DRAIN
	F.S.	FLOOR SINK
	G.L.	GAS LINE
	A.F.F.	ABOVE FINISHED FLOOR
X-X 0000		PLUMBING EQUIPMENT DESIGNATION
XXX		KITCHEN EQUIPMENT NUMBER: REFER TO KITCHEN EQUIP. DRAWINGS FOR DESCRIPTION.
— SS —		SOIL OR WASTE (SANITARY)/ WASTE STUB
— GW —		SOIL OR WASTE (GREASE WASTE)/WASTE STUB
— G —	G	GAS / GAS STUB
— CW —	CW	COLD WATER / CW STUB
— HW —	HW	HOT WATER / HW STUB
— HWR —	H.W.R.	HOT WATER RETURN
- - - - - -	V.	SANITARY VENT
— SD —	S.D.	STORM DRAIN
— CD —	C.D.	CONDENSATE DRAIN
	F.C.O.	FLOOR CLEANOUT OR CLEANOUT TO GRADE
	W.C.O.	WALL CLEANOUT
— FW —	FW	FILTERED WATER
— TW —	TW	PREMIXED TEMPERATURE WATER
	H.B.	HOSE BIBB
	S.O.V.	SHUT-OFF GATE VALVE
	S.O.C.	SHUT-OFF GAS COCK
	C.V.	CHECK VALVE
	P.T.R.V.	PRESS-TEMPERATURE RELIEF VALVE
	B.V.	BALL VALVE
— — —	C.W.	COLD WATER BELOW GRADE
	E.C.O.	EXTERIOR CLEAN OUT
	BFP	BACK FLOW PREVENTER
	FU	FIXTURE UNIT
	S.O.V.	ANSUL SHUT-OFF GATE VALVE
	U	UNION (LINE SIZE)
	P.O.C.	POINT OF CONNECTION

PLUMBING LEGEND — D

ITEM	QTY.	GPH	TOTAL GPH
HAND SINK / LAVATORY	4	5	20
PRE RINSE SINK	1	20	20
3 COMP POT SINK	1	90	90
MOP SINK	1	50	50
TOTAL			180

DEMAND FACTOR = 0.7
TOTAL HW DEMAND = 126 GPH

BTU/HR OUTPUT = TOTAL HW DEMAND x 8.34 x TEMP RISE
= 126 x 8.34 x 80
= 84,067 BTU
BTU/HR INPUT = 84,067 / 0.75
= 112,089 BTU

HOT WATER DEMAND — C

FIXTURE	NO.	DRAIN		COLD WATER		HOT WATER	
		D.F.U.	TOTAL D.F.U.	F.U. C.W.	TOTAL C.W.	F.U. H.W.	TOTAL H.W.
WATER CLOSET (FLUSHOMETER TANK)	2	4	8	2	4	--	--
WATER FILTRATION UNIT	1	--	--	1	1	--	--
LAVATORY	2	1	2	1.5	3	1.5	3
HAND SINK	2	2	4	1.5	3	1.5	3
PREP SINK *	1	--	--	2	2	2	2
3 - COMPARTMENT SINK *	1	--	--	3	3	3	3
HOSE BIBB	2	--	--	2.5:1	3.5	--	--
FLOOR DRAIN	7	2	14	--	--	--	--
HUB DRAIN	1	2	2	--	--	--	--
FLOOR SINK	4	6	24	--	--	--	--
MOP SINK	1	3	3	2.25	2.25	2.25	2.25
RETHERMALIZER*	1	-	-	--	--	1.0	1.0
TOTAL	-	-	67	--	20.75	--	14.25

PROBABLE DEMANDS/ AND PIPE SIZING REQUIREMENTS:

COLD WATER:	20.75 FU = 20 GPM	USE 1-1/2" CW SERVICE
DRAIN: GW	43 DFU	USE 4" SANITARY (MIN)
DRAIN: SAN	24 DFU	USE 4" SANITARY (MIN)
HOT WATER:	14 .25 FU =17 GPM	USE 1-1/4" HW SERVICE

BASED ON 2012 INDIANA PC (COMBINATION DRAIN & VENT). *FIXTURE HAS INDIRECT WASTE TO FLOOR SINK

WATER CALCULATION'S — B

ITEM	FIXTURE	SOIL OR WASTE	VENT	COLD WATER	HOT WATER	TEMP'D WATER	WASTE FU	WATER FU	DESCRIPTION	MANUFACTURER / MODEL NUMBER
ECO 1	EXTERIOR CLEANOUT	--	--	--	--	--	--	--	CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER.	JOSAM / MODEL: 56000 WADE / MODEL: 6000Z ZURN / MODEL: Z-1400
FS 1	FLOOR SINK	4"	2"	--	--	--	6	--	LIGHT DUTY, ACID RESISTANCE, WHITE PVC FLOOR SINK W/ 12" SQURE WHIT PVC HALF GRATE AND STAINLESS STEEL DEBRIS BUCKET WITH LIFTING HANDEL.	SIOUX CHIEF / MODEL: 861-4PNDW
FS 2	FLOOR SINK	4"	2"	--	--	--	6	--	PVC 12" SQUARE FLOOR SINK, 6" DEEP, WITH ALUMINUM DOME STRAINER AND NICKEL BRONZE HINGED TOP.	SIOUX / MODEL: 861-4-PND
FD 1	FLOOR DRAIN (3")	3"	2"	--	--	--	2	--	LIGHT DUTY ADJUSTABLE PVC WITH THREADED ADAPTOR AND 5" DIAMETER NICKEL BRONZE RING AND FASTENED GRATE	ZURN / MODEL: FD-2210 SIOUX CHIEF 842 OATEY 72000
FCO 1	FLOOR CLEANOUT	--	--	--	--	--	--	--	CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER.	JOSAM / MODEL: 56000 WADE / MODEL: 6000Z ZURN / MODEL: Z-1400
WCO 1	WALL CLEANOUT	--	--	--	--	--	--	--	CAST IRON CLEANOUT TEE WITH INLET/OUTLET SPIGOT AND THREADED BRASS PLUG, WITH STAINLESS STEEL ACCESS COVER.	JOSAM / MODEL: 58510 WADE / MODEL: 8560E ZURN / MODEL: Z-1446-BP
HB 1	HOSE BIBB	--	--	3/4"	--	--	--	2.5/1	NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER, BRONZE CASING AND NICKEL BRONZE BOX.	JOSAM / MODEL: 71000 WADE / MODEL: 8600L ZURN / MODEL: Z-1300
WC 1	WATER CLOSET (GREEN)	4"	2"	1/2"	--	--	4	2	WHITE VITREOUS CHINA FLOOR MOUNTED FLUSHOMETER TANK (PRESSURE ASSISTED) TYPE, ELONGATED BOWL, ADA COMPLIANT, 1.1 GPF, WITH OPEN FRONT SEAT LESS COVER, OLSENITE #95 OR EQUIVALENT. FLUSHOMETER TANK: SLOAN FLUSHMATE OR EQUAL. PROVIDE TANK COVER LOCKS. FLUSH LEVERS SHALL BE RIGHT HAND OR LEFT HAND AS REQUIRED TO CORRESPOND WITH ACCESS FROM WIDE SIDE OF STALL. VERIFY FLUSH SIDE REQUIREMENTS	AM. STD. "CADET" / MODEL: 2467.100 KOHLER "HIGHLINE" / MODEL: K-3519 CRANE "ECONMISER" / MODEL: 31888
L 1	LAVATORY (GREEN)	1-1/4"	1-1/2"	--	--	1/2"	2	1.5	WHITE VITREOUS CHINA, WALL HUNG, WITH CONCEALED ARMS SUPPORT SEE 8/P6.0, 4" CENTERS, WITH INTEGRAL BACKSPLASH, ADA ACCESSIBLE. FLAT GRID STRAINER. BRAIDED WATER LINES. FAUCET: FURNISHED BY OWNER-INSTALLED BY G.C. ELECTRONIC HANDWASHING FAUCET, SLOAN BATTERY FAUCET. ADA COMPLIANT, 0.5 GPM AERATOR.	A.S. COMRADE/ MODEL: 0124.131 CRANE "HARWICH" / MODEL: 1412V SLOAN FAUCETS SF-2350
S 1	HAND SINK (GREEN)	1-1/2"	1-1/2"	--	--	1/2"	2	1.5	S-1: STAINLESS STEEL HAND SINK, WALL HUNG, INCLUDES A 6" GOOSENECK STAINLESS FAUCET, W/SINGLE KNEE PEDAL, BRAIDED WATER LINES, AND 0.5 GPM AERATOR	-- -- --
S 2	MOP SINK	3"	2"	1/2"	1/2"	--	3	3	MOP SINK: AERO - 3MP-2121-6 W/ 48" HIGH S.S LEFT SIDE AND BACK-SPLASH. FURNISHED BY OWNER, INSTALLED BY GC. FAUCET: T&S #B2465, WITH VACUUM BREAKER, FURNISHED BY OWNER, INSTALLED BY GC.	-- -- --
S 3	3-COMP.* SINK	INDIRECT	--	1/2"	1/2"	--	--	3	SINK, FAUCET, 0.65 GPM NOZZLE, DRAIN, & GEN IV POWER SOAK STANDARD, GEN III IS AN OPTION FOR FRANCHISES	-- -- --
S 4	PREP SINK	INDIRECT	--	1/2"	1/2"	--	--	2	SINK, FAUCET, 0.65 GPM NOZZLE, & DRAIN	-- -- --
GI 1	GREASE INTERCEPTOR	4"	--	--	--	--	--	--	3,000 GALLON INTERCEPTOR, SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION	-- -- --
MV 1	MIXING VALVE (GREEN)	--	--	1/2"	1/2"	--	--	--	THERMOSTATIC, 125 P516, 200VF BRONZE BODY, STAINLESS STEEL PISTON LINER, CHECK VALVES SIZE PER PIPE CONNECTIONS.	POWERS SERIES LF495 LAWLER SERIES 310 LEONARD SERIES 170
WH 1	WATER HEATER	--	--	1-1/4"	1-1/4"	--	--	--	GAS FIRED WATER HEATER, 98.5% THERMAL EFF., 120,000 BTUH INPUT, 60 GAL. STORAGE TANK, 138 GPH @ 100 DEG. RISE REC. RATE, 3" PVC FLUE & AIR INTAKE, ASME RTD TEMP. & PRESS. REL. VALVE, ELECTRONIC IGNITION SYSTEM AND ELETRONIC CONTROLS. Call 800-477-1953 Option #1 for National Account Price & Service	AO SMITH / BTH 120 STATE / SUF 100 120 NE
ET 1	EXPANSION TANK	--	--	3/4"	--	--	--	--	EXPANSION TANK, STEEL, EXPANSION MEMBRANE 150 PSI, 160° F, 12 GALLON CAPACITY.	WATTS SERIES DET AMTROL SERIES ST WILKINS SERIES WXTP
BFP 1	BACKFLOW PREVENTOR	--	--	1-1/2"	--	--	--	-	REDUCED PRESSURE ZONE BACKFLOW PREVENTER, CAST BRONZE CONSTRUCTION WITH QUARTER TURN FULL-PORT BALL VALVES AND BRONZE STRAINER.	WATTS / MODEL: 009M2QTS WILKINS / MODEL: 975XLS FEBCO / MODEL: 860
SA 1	SHOCK ARRESTOR	--	--	1/2"	--	--	--	--	STAINLESS STEEL CASING WITH STAINLESS STEEL BELOW, PRECHARGED WITH NITROGEN. SIZED PER PDI-WH201	WADE / SHOKSTOP JOSAM / MODEL: 75000 ZURN / SHOKTROL
RO 1	REVERSE OSMOSIS	INDIRECT	--	1/2"	--	--	--	--	REVERSE OSMOSIS FILTER SYSTEM BY OWNER SEE TO DETAIL 9/P6.0	WADE / SHOKSTOP JOSAM / MODEL: 75000 ZURN / SHOKTROL
HD 1	HUB DRAIN	3"	2"	--	--	--	2	--	CAST IRON DEEP SEAL P-TRAP WITH FUNNEL, NO-HUB OUTLET AND BRASS GASKETED CLEANOUT PLUG.	JOSAM / MODEL: 88213 WADE / MODEL: 2453EF ZURN / MODEL: Z-1019
BFP 2	DOUBLE CHECK VALVE	--	--	VERIFY	--	--	-	--	WATTS REGULATOR MODEL LF7R DOUBLE CHECK VALVE ASSE 1024 PROVIDE WITH SHUT-OFF VALVE	-- --

*. IF GEN POWER SOAK SINK USED THEN ADD A MIXING VALVE TO SINK ABOVE SUSPENDED CEILING.

PLUMBING SCHEDULE — A

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PE10303015
STATE OF INDIANA
PROFESSIONAL ENGINEER
8/10/20

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

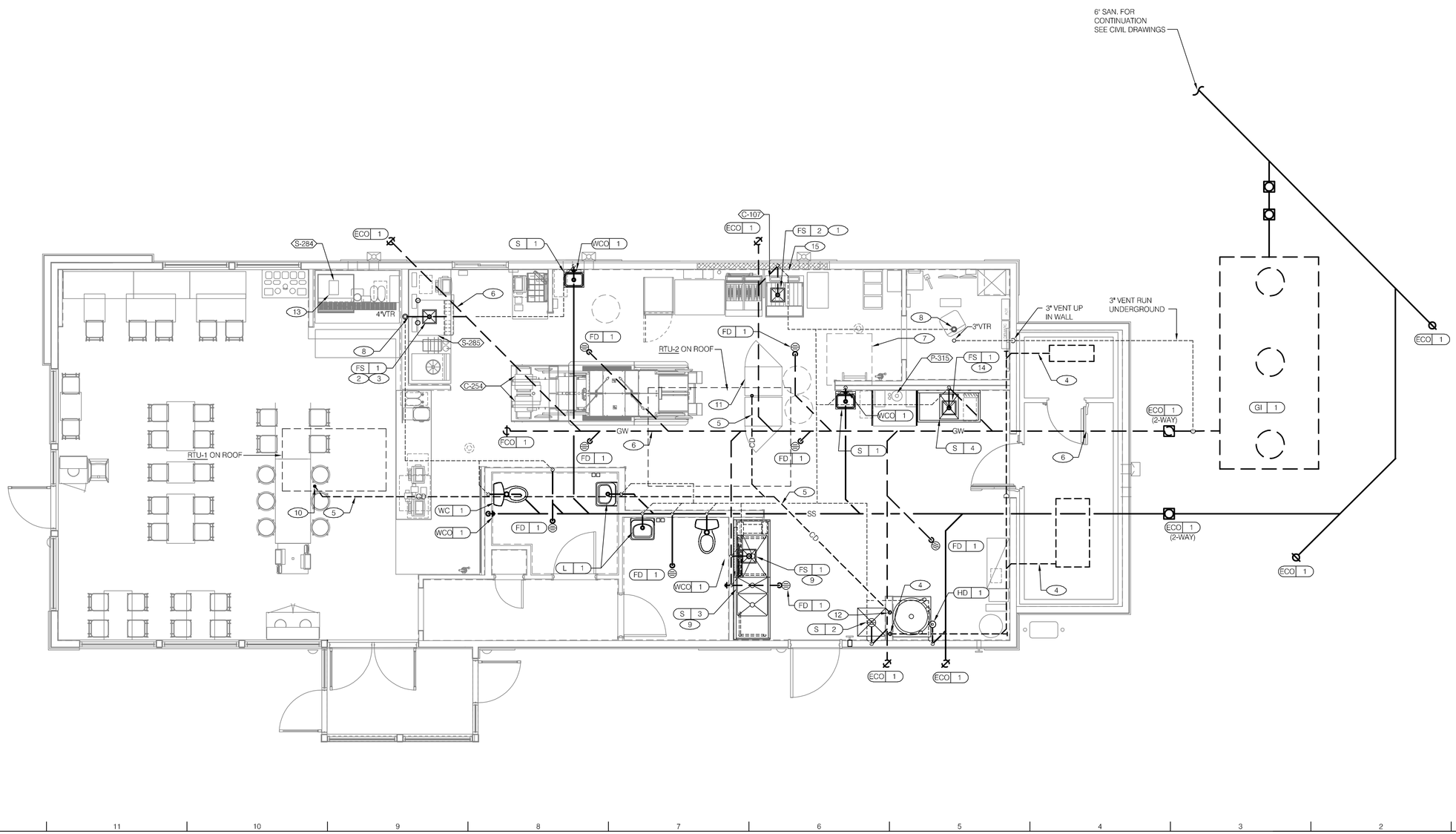
TACO BELL

EXPLORER LITE
MEDIUM40

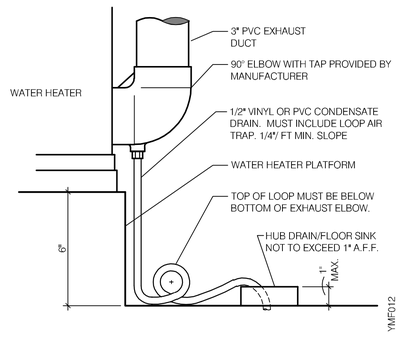
PLUMBING SCHEDULES AND NOTES

P1.0

6/29/20



WASTE & VENT PLAN 1/4"=1'-0" A



WATER HEATER CONDENSATE DETAIL D

WASTE & VENT PLAN NOTES C

A. NO ROOF PENETRATIONS PERMITTED WITHIN ROOF WATER PLY. REFER TO ROOF PLAN FOR LOCATIONS.

B. REFER TO RISER DIAGRAM ON SHEET P5.0 FOR ALL WASTE AND VENT SIZES.

C. SEE ARCHITECTURAL PLANS FOR DOWNSPOUT LOCATIONS

D. VERIFY WITH THE LOCAL BUILDING AUTHORITY THAT CONDENSATE DRAINAGE CAN BE ROUTED TO THE MOP SINK.

KEY NOTES B

1. UNDERGROUND SANITARY PIPE SHALL BE NO HUB CAST IRON PIPE FOR THE FIRST 10 FEET FROM CONNECTION TO FLOOR SINK FS-2, OUTWARD.
2. PROVIDE CONDENSATE LINE AND DRAIN LINE FROM ICE MACHINE TO HD / FS. PROVIDE AIR GAP PER LOCAL CODE. SEE 11/A6.4
3. PROVIDE WASTE LINES FROM BEVERAGE UNIT TO HD / FS. PROVIDE AIR GAP PER LOCAL CODE. SEE 11/A6.4
4. PROVIDE 3/4" COPPER CONDENSATE FROM DRAIN PROVIDED BY VENDOR TO OUTFALL AT MOP SINK (HEAT ROPE IS SUPPLIED WITH FREEZER CONDENSATE). CONCEAL CONDENSATE PIPE IN WALL.
5. PVC OR COPPER CONDENSATE DRAIN FROM HVAC UNITS ON ROOF. RUN ABOVE CEILING TO FLOOR SINK. PIPING SHALL SLOPE 1/4" PER FOOT AND SHALL BE INSULATED WITH 1" CLOSED CELLULAR INSULATION. REFER TO RISER DIAGRAM ON SHEET P5.0 FOR PIPE SIZES.
6. ENTIRE RUN OF DRAIN LINES TO INLET OF EXTERIOR GREASE INTERCEPTOR AND OUTBOUND FROM INTERCEPTOR TO CONNECTION AT SANITARY MAIN SHALL BE SCHEDULE 40 PVC DWV OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
7. AVOID ROUTING VENT PIPING THRU ROOF HATCH OPENING. COORDINATE IN FIELD.
8. 4" VENT UP THROUGH ROOF.
9. PIPE 3-COMPARTMENT SINK TO FLOOR SINK WITH AIR GAP PER CODE.
10. 1" CONDENSATE DRAIN DOWN FROM RTU-1. SEE DETAIL 13 ON DRAWING P6.0.
11. 1" CONDENSATE DRAIN DOWN FROM RTU-2. SEE DETAIL 13 ON DRAWING P6.0.
12. 1-1/2" CONDENSATE DRAIN PIPE DOWN TO MOP SINK. PROVIDE AIR GAP AS REQUIRED BY CODE. IF REQUIRED RUN CONDENSATE PIPING TO EXTERIOR DRYWELL. RETENTION AREA OR STORM SEWER AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.
13. RUN DRAIN LINE FROM S/S DRINK MACHINE THRU WALL OPG. TO OUTFALL AT FS BENEATH D/T DRINK MACHINE. SEE DETAIL 11/A6.4
14. ROUTE DRAIN FOR REVERSE OSMOSIS DISCHARGE TO FLOOR SINK. ENSURE PROPER AIR GAP.
15. INSTALL PLUMBING ON WARM SIDE OF INSULATION IN EXTERIOR WALL.

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REGISTERED PROFESSIONAL ENGINEER
LICENSE NO. PE10303015
STATE OF INDIANA
PROFESSIONAL ENGINEER
8/10/20

⚠ OWN/STATE COMMENTS 08.10.20
⚠
⚠
⚠
⚠

CONTRACT DATE: 8/26/19
BUILDING TYPE: EXP. LITE MED40
PLAN VERSION: MARCH 2018
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 314007
STORE NUMBER: TBD

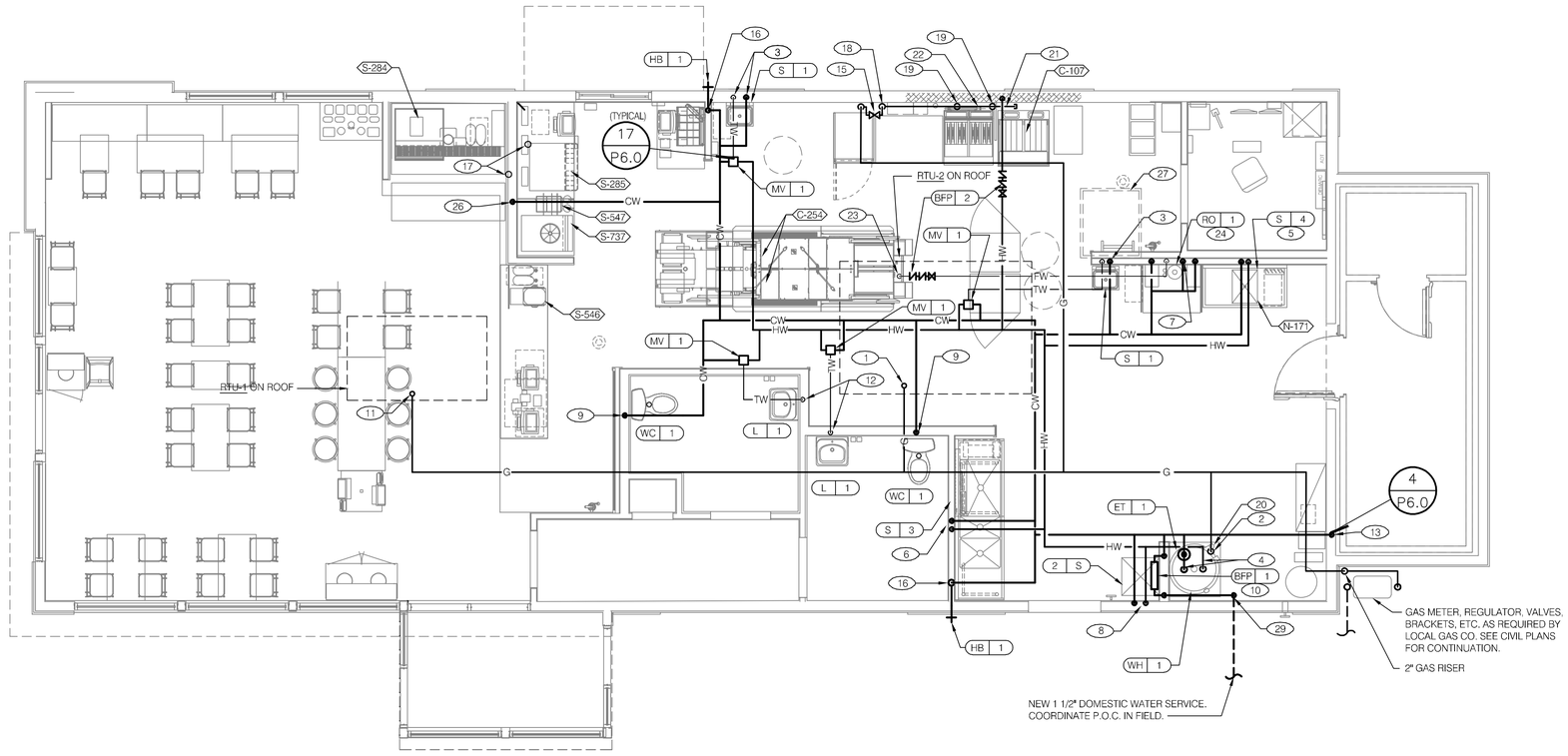
1 TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

WASTE AND VENT PLAN

P2.0

6/29/20



WATER & GAS PLAN 1/4"=1'-0" A

NOT USED D

WATER & GAS PLAN NOTES C

A. WATER DISTRIBUTION PIPING IS SHOWN ABOVE FINISH CEILING. UNDER SLAB DISTRIBUTION ALLOWED AT CONTRACTOR OPTION. COORDINATE ALL DETAILS.

B. NO ROOF PENETRATIONS PERMITTED WITHIN THE ROOF "WATER VALLEYS". REFER TO ROOF PLAN FOR LOCATIONS.

C. REFER TO SHT P4.0 FOR ROUGH-IN LOCATIONS.

D. REFER TO SHEET P5.0 FOR WATER AND GAS ISOMETRIC DRAWINGS.

E. FLUSH ALL WATER SUPPLY LINES OF ALL DEBRIS AND IMPURITIES PRIOR TO CONNECTING TO WATER FILTERS.

F. PROVIDE REDUCED PRESSURE BACKFLOW TO SERVE CARBONATOR . DRAIN RELIEF TO FLOOR SINK WITH AIR GAP.

G. PROVIDE A VENTED DOUBLE CHECK VALVE W/ATMOSPHERIC PORT FOR THE WATER LINES SUPPLY LINES TO FOOD SERVICE EQUIPMENT (ASSE -1022.)

H. EQUIPMENT VENDER TO FOLLOW MANUFACTURE'S REQUIREMENTS TO INSTALL DOUBLE CHECK VALVE ON EQUIPMENTS WHERE APPLICABLE.

KEY NOTES B

1. 1-1/4" GAS UP TO RTU-2 WITH DIRT LEG. GAS COCK. UNION.
2. 1" GAS DOWN TO WATER HEATER WITH GAS COCK. DIRT LEG AND UNION.
3. 1/2" TEMPERED AND COLD WATER DOWN IN WALL TO HAND SINK.
4. 1.25" HOT AND 1.25" COLD WATER LINES DOWN TO WATER HEATER.
5. 1/2" HOT AND COLD WATER LINES DOWN IN WALL TO PREP SINK.
6. 1/2" HOT AND COLD WATER LINES DOWN IN WALL TO THREE COMPARTMENT SINK.
7. 1/2" COLD WATER 2'-0" A.F.F. CONNECT TO WATER FILTER FOR HOT WATER SYSTEM P-452. PROVIDE SHUT-OFF VALVE PRIOR TO CONNECTION TO THE WATER FILTER.
8. 1/2" COLD AND HOT WATER DOWN IN THE WALL TO THE MOP SINK.
9. 1/2" CW DOWN IN WALL TO WATER CLOSET FLUSHOMETER TANK.
10. REDUCED PRESSURE BACKFLOW PREVENTER PER LOCAL UTILITY REQ'S. PROVIDE SHUT-OFF VALVES AT BOTH SIDES OF METER. PIPE BFP RELIEF TO FLOOR SINK. VERIFY LOCATIONS WITH CIVIL DWGS.
11. 1-1/4" GAS UP TO RTU-1 WITH DIRT LEG. GAS COCK. UNION.
12. 1/2" TEMPERED WATER LINE DOWN IN WALL TO LAVATORY.
13. 3/4 CW DOWN IN WALL TO WATER FILTER S-286. SEE DETAIL 4/P6.0.
14. 3/4" CW DOWN IN WALL TO URINAL FLUSH VALVE.
15. EMERGENCY GAS SHUT-OFF VALVE LOCATED BELOW CEILING.
16. 3/4" CW DOWN IN WALL TO EXTERIOR HOSE BIBB.
17. BUNDLED SYRUP LINES TO BEVERAGE DISPENSERS S-284 & S-285 AND FILTERED WATER LINES TO ICE MAKERS S-513 AND FROZEN BEVERAGE DISPENSER S-739. SEE DRAWINGS A2.0 AND P5.0.
18. 1-1/4" GAS DOWN ALONG WALL TO TACO BELL COOKING EQUIPMENT.
19. GAS DIRT LEG W/ GAS COCK TO COOKING EQUIPMENT. PROVIDE FLEXIBLE GAS HOSE KIT FOR CONNECTION TO COOKING EQUIPMENT. SEE 5/P5.0 FOR SIZES.
20. 3" PVC COMBUSTION AIR AND VENT FOR WATER HEATER. SEE M2.0.
21. 1/2" HOT WATER DOWN IN WALL TO TB RETHERMALIZER. PROVIDE SHUT-OFF VALVE OUTSIDE OF WALL FOR CONNECTION TO RETHERMALIZER.
22. RUN GAS PIPE 18" A.F.F. WITH DIRT LEGS FOR GAS HOSE KITS TO COOKING EQUIPMENT. HARD GAS LINE BEHIND COOKING EQUIPMENT SHALL NOT BE MORE THAN 6" MAX. FROM THE WALL SURFACE.
23. 3/4" FILTER WATER LINE DOWN IN UTILITY CHASE OF DRY PRODUCTION LINE. PROVIDE SHUT-OFF VALVE ON FW PIPING IN CEILING NEAR CHASE.
24. 3/4" COLD WATER TO REVERSE OSMOSIS FILTER P-315 AND 3/4" FILTER WATER FROM REVERSE OSMOSIS FILTER. PROVIDE SHUT-OFF VALVE ON CW PIPE PRIOR TO CONNECTION TO FILTER. SEE DETAIL 9 / P6.0.
25. GAS METER REGULATOR VALVES, BRACKETS, ETC. AS REQUIRED BY LOCAL GAS CO. SEE CIVIL DRAWINGS FOR CONTINUATION.
26. 1/2" COLD WATER. CONNECT TO WATER FILTER FOR BUNN POD BREWER S-547. PROVIDE SHUT-OFF VALVE PRIOR TO CONNECTION TO THE WATER FILTER.
27. AVOID ROUTING PIPING THRU ROOF HATCH OPENING. COORDINATE IN FIELD.
28. INSTALL NEW WATER PIPING ON WARM SIDE OF INSULATION.
29. PLUMBING CONTRACTOR TO INSTALL WATER METER AND MAIN SHUT-OFF VALVE IN ACCESSIBLE LOCATION.

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8/10/20

	REVISION	FEB18
1		
2		
3		
4		
5		

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
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1 TACO BELL
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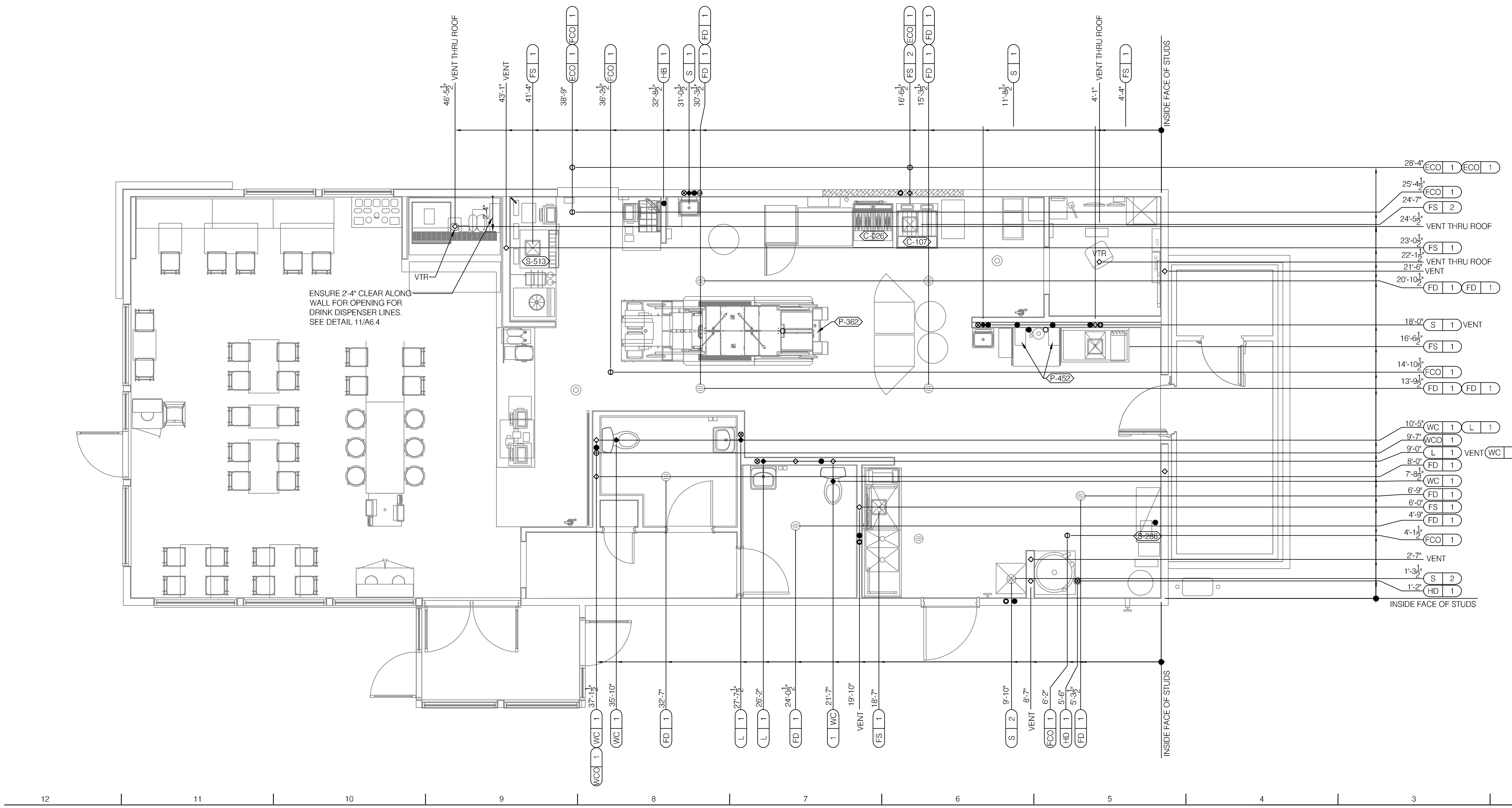
TACO BELL
EXPLORER LITE
MEDIUM40

WATER AND GAS PLAN

P3.0

6/29/20



PLUMBING ROUGH-IN PLAN A

1/4"=1'-0"

EQUIP #	EQUIPMENT ITEM	TYPE	ELEVATION	REMARKS
FS 1	FLOOR SINK			--
FD 1	FLOOR DRAIN			--
HD 1	HUB DRAIN			--
WH 1	WATER HEATER	CW		--
WH 1	WATER HEATER	G	+15" A.F.F.	--
WC 1	WATER CLOSET FLUSH VALVE	CW	+29" A.F.F	BOTH HANDICAP AND REGULAR
UR 1	URINAL FLUSH VALVE	CW	+47" A.F.F.	WALL MOUNTED
UR 1	URINAL WASTE STUB	W	+16-1/2" A.F.F.	WALL MOUNTED
L 1	LAVATORY	TW	+20" A.F.F.	--
L 1	LAVATORY WASTE LINE	W	+16-1/2" A.F.F.	--
S 1	HAND SINK	TW	+18" A.F.F	RIM OF LAV @ +2'-8" A.F.F.
S 2	MOP SINK	W	-6" A.F.F.	RECESSED IN FLOOR
S 2	MOP SINK FAUCET	CW/HW	+36" A.F.F	--
S 2	MOP SINK FAUCET	CW/HW	+42" A.F.F	CLOSET MOP SINK ONLY
S 3	3-COMPARTMENT SINK	W	+19" A.F.F	--

EQUIP #	EQUIPMENT ITEM	TYPE	ELEVATION	REMARKS
S 3	3-COMPARTMENT SINK FAUCET	CW/HW	+38" A.F.F	--
S 4	PREP SINK	W	+19" A.F.F	--
S 4	PREP SINK FAUCET	CW/HW	+38" A.F.F	--
S-513	ICE MAKER	FW	-	VIA SYRUP BUNDLE
C-107	RETHERMALIZER	HW	+8" A.F.F.	
C-107	RETHERMALIZER	G	+12" A.F.F.	
C-026	DOUBLE OPEN FRYER	G	+12" A.F.F.	
S-286	WATER FILTER SYSTEM	CW	+94" A.F.F.	INLET TO & OUTLET FROM FILTER
P-362	UTILITY CHASE FOR V-LINE	FW	CLG.	STUB AT CLG.
P-452	FILTER FOR HOT WATER SYSTEM	CW	+24" A.F.F.	

PLUMBING ROUGH-IN SCHEDULE D

- HOT WATER
- COLD WATER
- TEMPERED WATER
- GAS
- FLOOR DRAIN
- FLOOR SINK
- HUB DRAIN
- WASTE OUTLET
- FLOOR CLEANOUT
- WALL CLEANOUT
- FILTERED WATER
- VENT UP FROM UNDER SLAB
- WATER LINE THRU FLOOR.

SYMBOL LEGEND C

1. ALL DIMENSIONS TO FLOOR SINKS, FLOOR DRAINS AND HUB DRAINS ARE TO CENTER OF FIXTURE.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THIS DATA ON THE LOCATION OF ALL PLUMBING ROUGH-INS WITH INFORMATION PROVIDED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND THE EQUIPMENT ACTUALLY SUPPLIED AND TO CONFIRM THE CORRECTNESS OF ANY DIMENSIONS INDICATED HEREIN.

PLUMBING ROUGH-IN NOTES B

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PE10303015 STATE OF INDIANA PROFESSIONAL ENGINEER 8/10/20

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

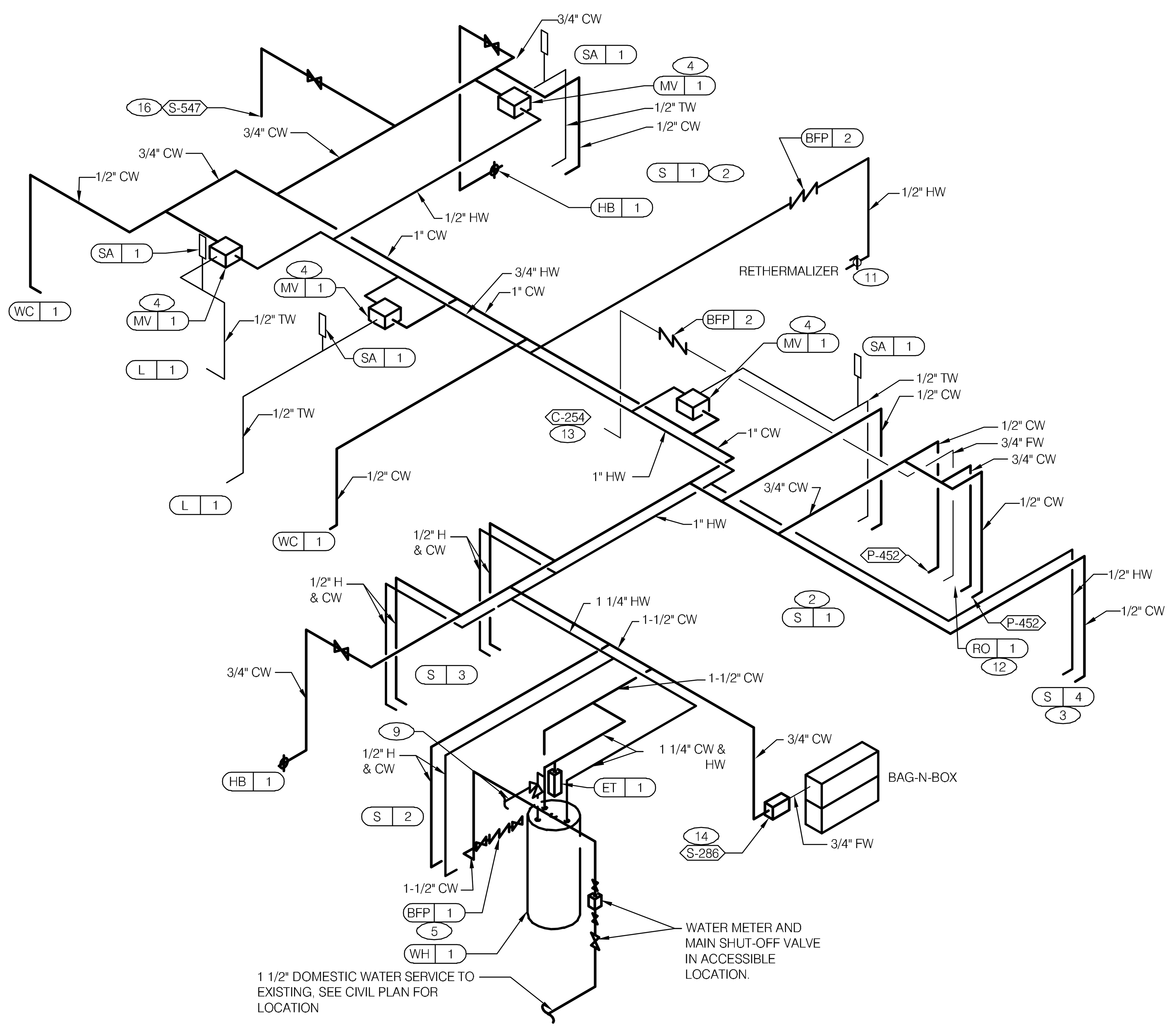
TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

EXPLORER LITE
MEDIUM40

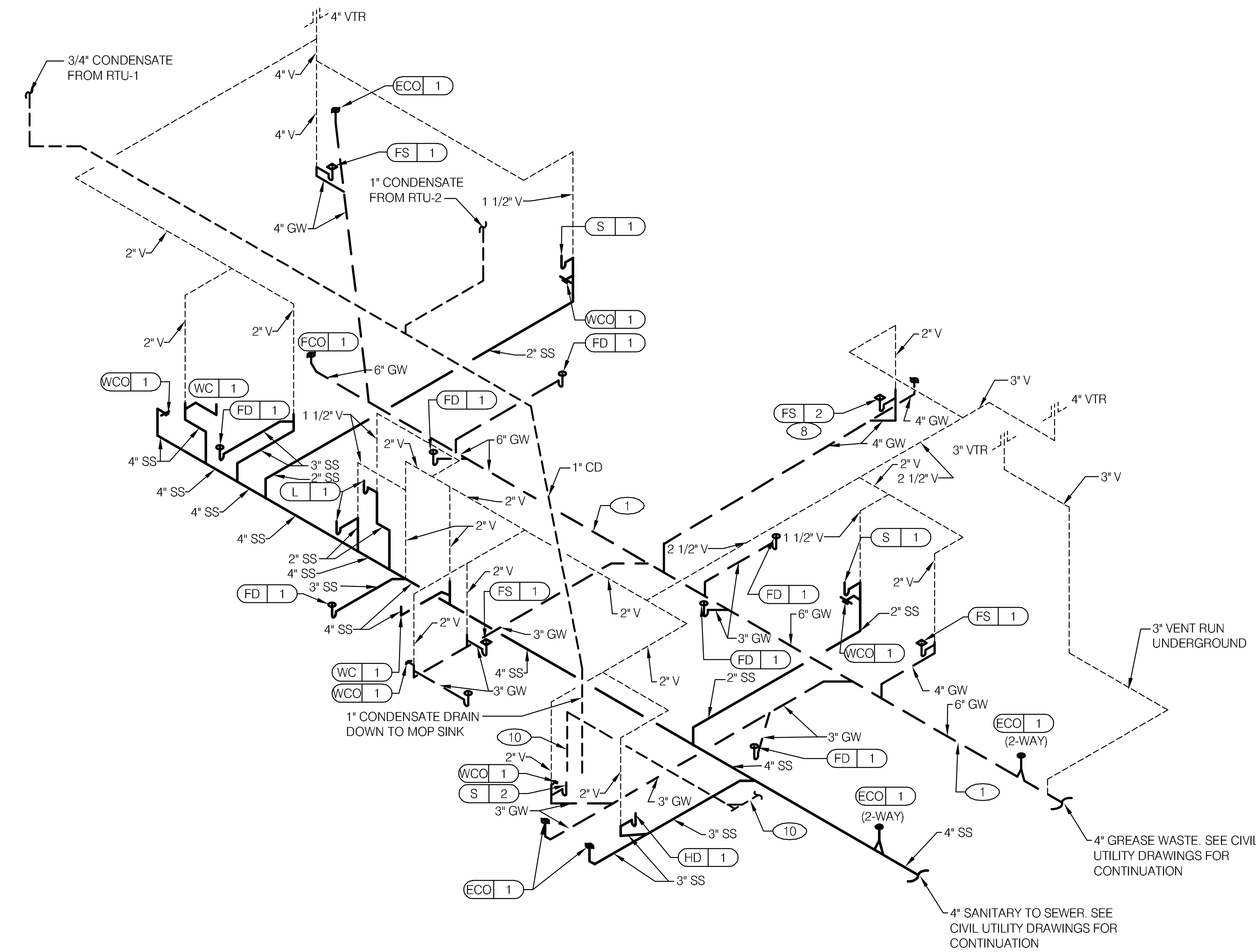
PLUMBING ROUGH-IN PLAN

P4.0

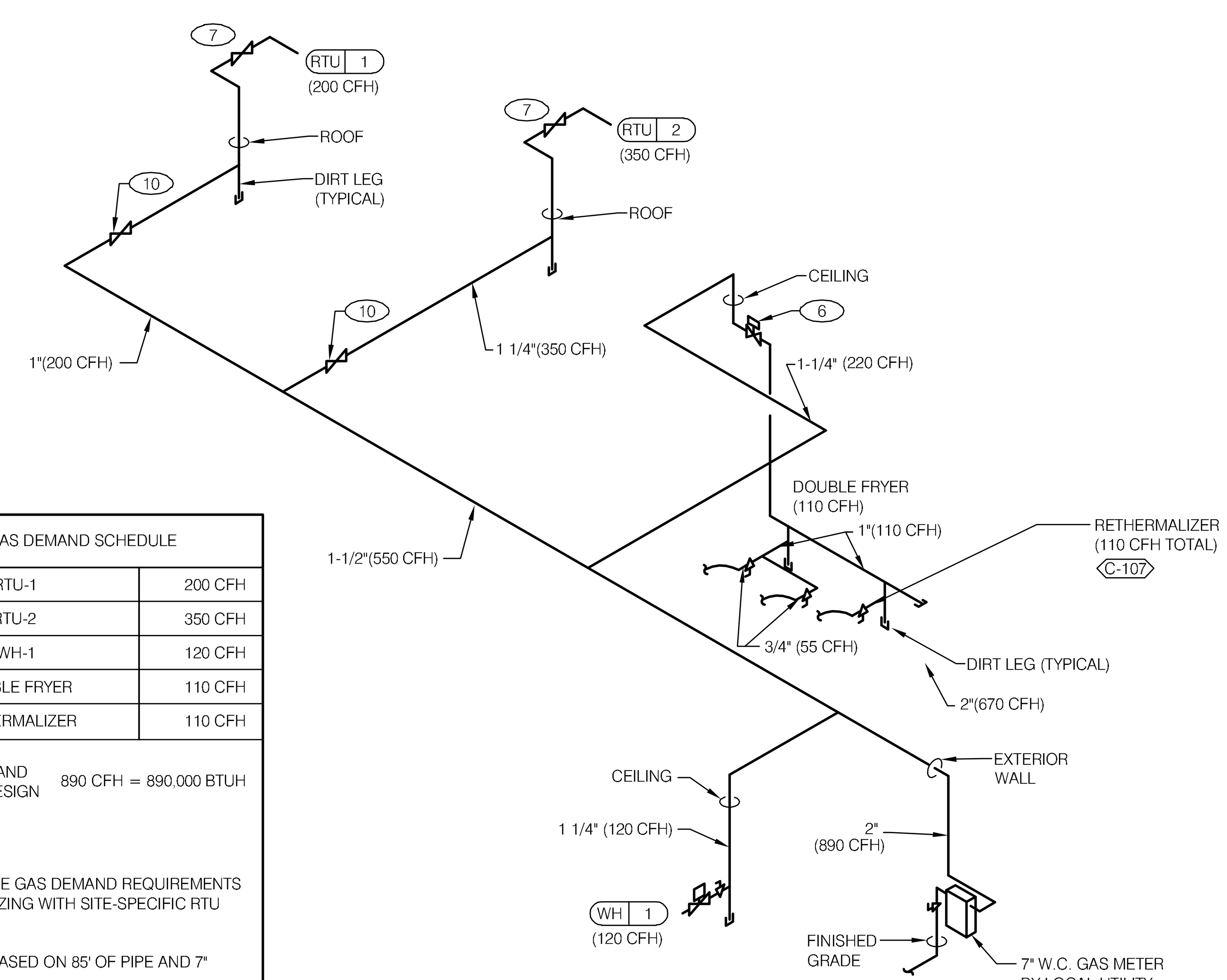
6/29/20



WATER ISOMETRIC(SIMILAR) N.T.S. 4



WASTE AND VENT ISOMETRIC(SIMILAR) N.T.S. 1

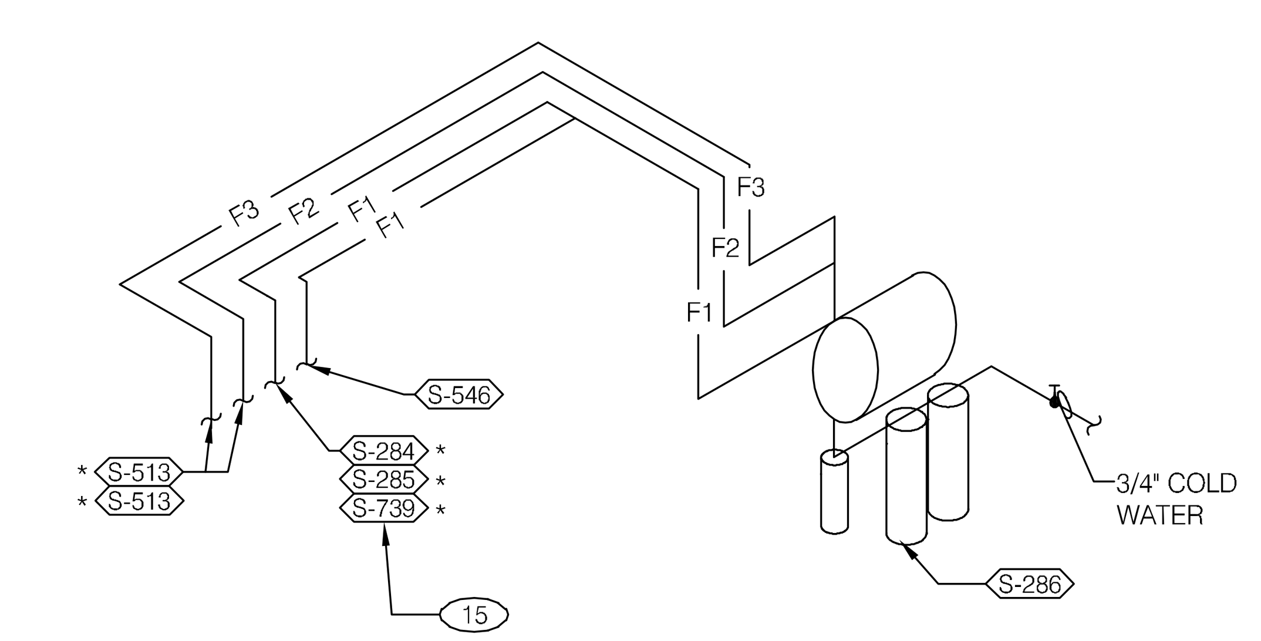


GAS DEMAND SCHEDULE	
RTU-1	200 CFH
RTU-2	350 CFH
WH-1	120 CFH
DOUBLE FRYER	110 CFH
RETHERMALIZER	110 CFH
TOTAL DEMAND BASIS OF DESIGN	890 CFH = 890,000 BTUH

NOTE:
COORDINATE GAS DEMAND REQUIREMENTS AND PIPE SIZING WITH SITE-SPECIFIC RTU DESIGN.

PIPE SIZE BASED ON 85' OF PIPE AND 7" W.C.

GAS ISOMETRIC N.T.S. 5



FILTERED EQUIPMENT AND LINES:

S-286 - WATER FILTER

FILTERED LINE (COLD WATER)

S-513 - ICE MAKER - ABOVE SELF-SERVE BEVERAGE DISPENSER *
S-513 - ICE MAKER - ABOVE DRIVE-THRU BEVERAGE DISPENSER *
S-285 - DRIVE-THRU BEVERAGE DISPENSER *
S-284 - SELF-SERVE BEVERAGE DISPENSER *
S-546 - ICED TEA BREWER
S-739 - FROZEN BEVERAGE DISPENSER *

* FILTERED WATER SUPPLIED VIA SYRUP BUNDLE. REFER TO 11/P6.0. SEE SCOPE OF WORK FOR RESPONSIBILITIES.

FILTERED WATER ISOMETRIC N.T.S. 2

1. ENTIRE RUN OF DRAIN LINES ON INLET TO GREASE TRAP SHALL BE SCHEDULE 40 PVC OR NO HUB CAST IRON AS REQUIRED BY CODE.
2. 1/2" TEMPERED WATER DOWN IN WALL TO HAND SINK / LAVATORY.
3. 1/2" HOT AND COLD WATER LINES DOWN IN WALL TO PREP SINK .
4. THERMOSTATIC MIXING VALVE.
5. REDUCED PRESSURE BACKFLOW PREVENTER PER LOCAL UTILITY REQ'S. PROVIDE SHUT-OFF VALVES AT BOTH SIDES OF BACKFLOW PREVENTER. VERIFY LOCATIONS WITH CIVIL DWGS.
6. EMERGENCY GAS SHUT-OFF VALVE (NORMALLY CLOSED) SHALL BE ELECTRIC SOLENOID TYPE WITH SPRING RETURN AND 24 VOLT ACTUATOR, SUITABLE FOR USE ON GAS PIPING SYSTEMS. VALVE SHALL BE ACTIVATED BY ANY OF THE EXHAUST HOOD FIRE SUPPRESSION SYSTEMS. PROVIDE RELAYS AS REQUIRED TO ACTIVATE SHUT-OFF VALVE.
7. FACTORY GAS PIPING AT ROOF TOP UNIT FOR THROUGH THE BASE PIPE CONNECTION. SHUT-OFF VALVE SHALL BE LOCATED OUTSIDE OF THE UNIT.
8. PROVIDE NO HUB CAST IRON PIPE FOR FIRST 10 FEET OF PIPE FROM CONNECTION TO FLOOR SINK FS-2
9. PIPE T&P RELIEF VALVE TO OUTSIDE OF BUILDING OR TO HUB DRAIN. RUN FULL SIZE PIPE FROM VALVE WITH TYPE "K" COPPER TUBING.
10. GAS SHUT-OFF VALVE IN CEILING SPACE BY G.C.
11. 1/2" HOT WATER PIPE DOWN IN WALL. PROVIDE SHUT-OFF VALVE OUTSIDE OF WALL FOR CONNECTION TO TB RETHERMALIZER.
12. 3/4" COLD WATER CONNECT TO REVERSE OSMOSIS FILTER AND 3/4" FILTERED WATER FROM REVERSE OSMOSIS FILTER. PROVIDE SHUT-OFF ON CW PIPE PRIOR TO CONNECTION TO FILTER.
13. 3/4" FILTERED WATER FROM REVERSE OSMOSIS FILTER DOWN IN UTILITY CHASE OF M.A.P.S. LINE. PROVIDE SHUT-OFF VALVE ON FW PIPE IN CEILING NEAR UTILITY CHASE.
14. 3/4" COLD WATER TO WATER FILTER SYSTEM.
15. TEE OFF 3/8" LINE FROM DRIVE THRU BEVERAGE DISPENSER FILTERED WATER SUPPLY. SEE DETAIL 16/P6.0.
16. 1/2" COLD WATER. CONNECT TO WATER FILTER FOR BUNN POD BREWER S-547. PROVIDE SHUT-OFF VALVE PRIOR TO CONNECTION TO THE WATER FILTER.
17. 3/4" COPPER CONDENSATE FROM DRAIN PROVIDED BY COOLER VENDOR TO OUTFALL AT MOP SINK (HEAT ROPE IS SUPPLIED WITH FREEZER CONDENSATE). CONCEAL CONDENSATE PIPE IN WALL.

KEYNOTES 3

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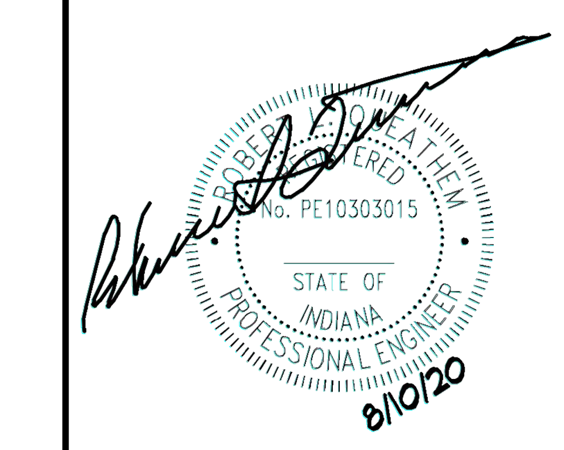

REVISION	FEB18

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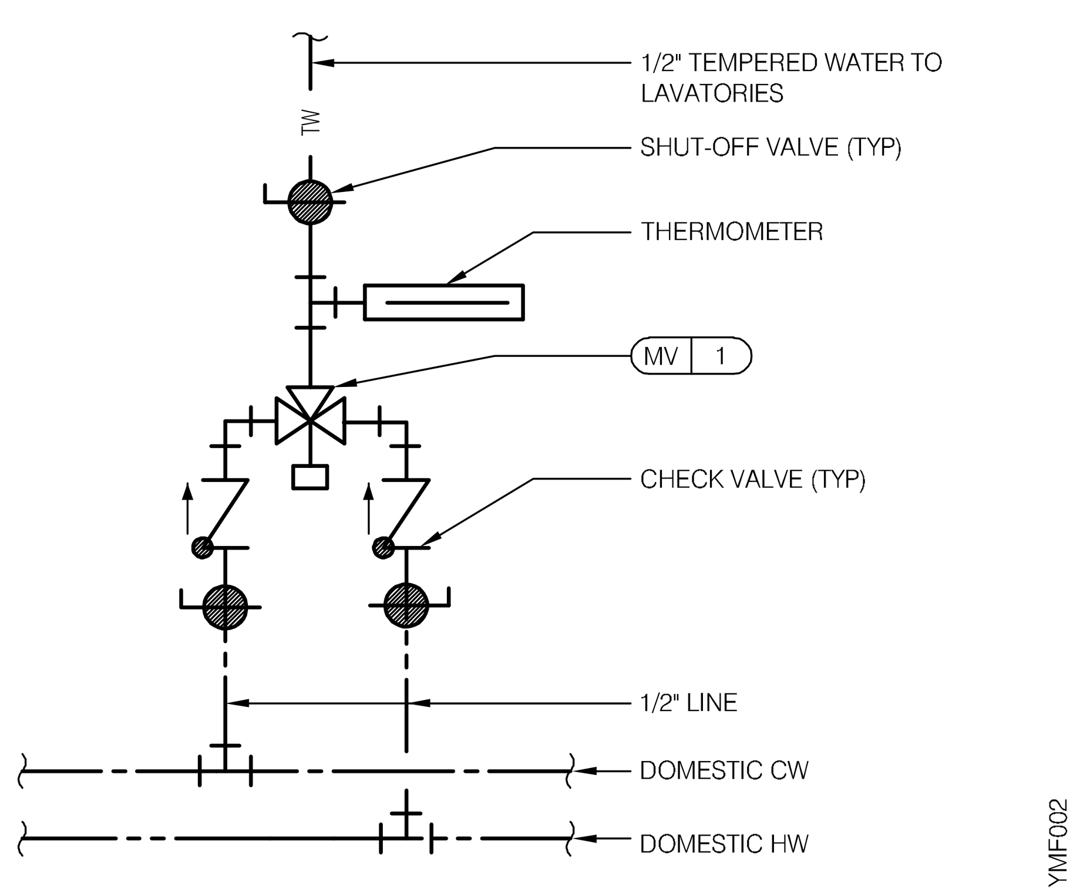
EXPLORER LITE
MEDIUM40

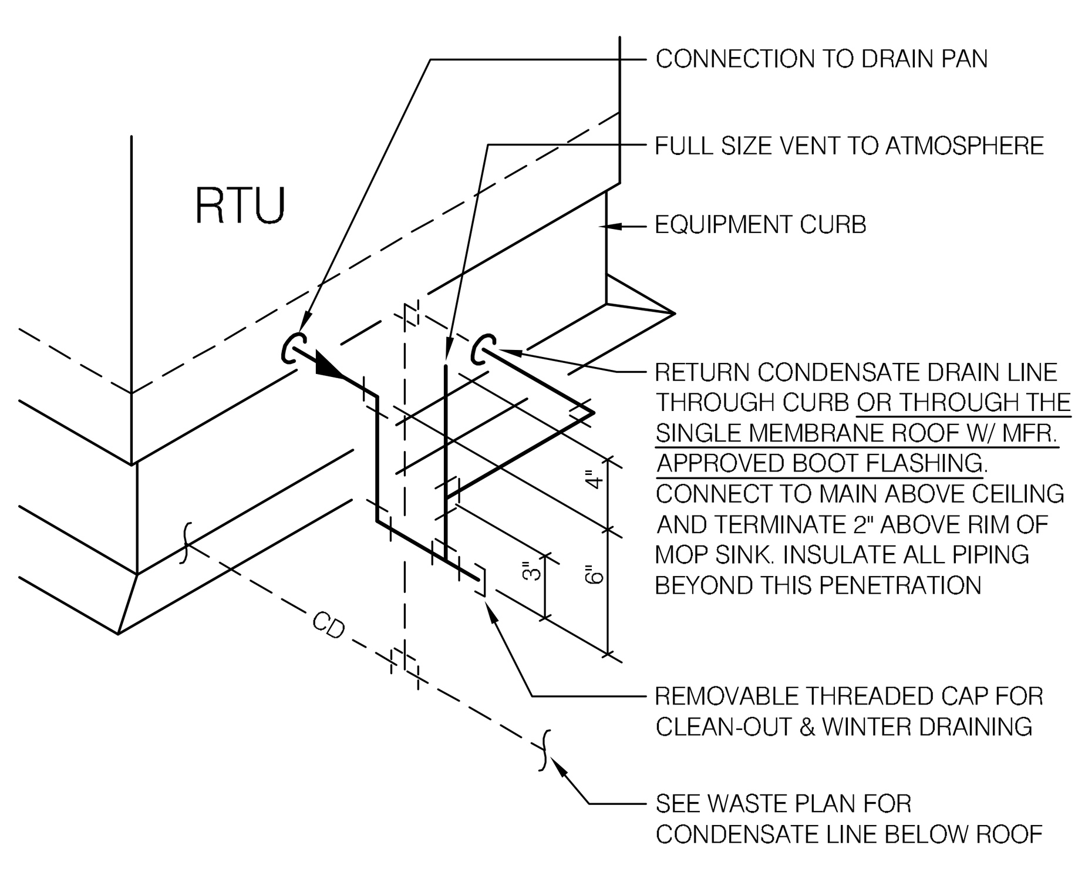
RISER DIAGRAMS

P5.0

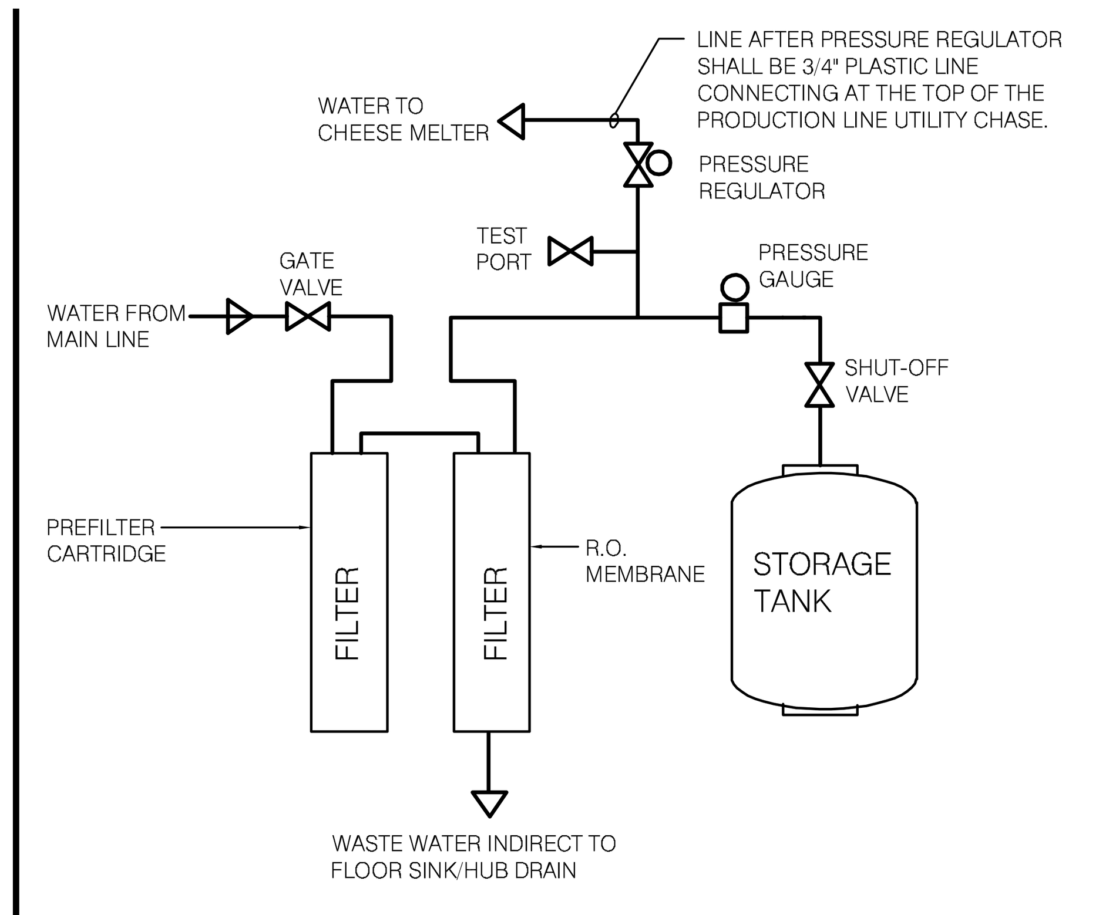
6/29/20



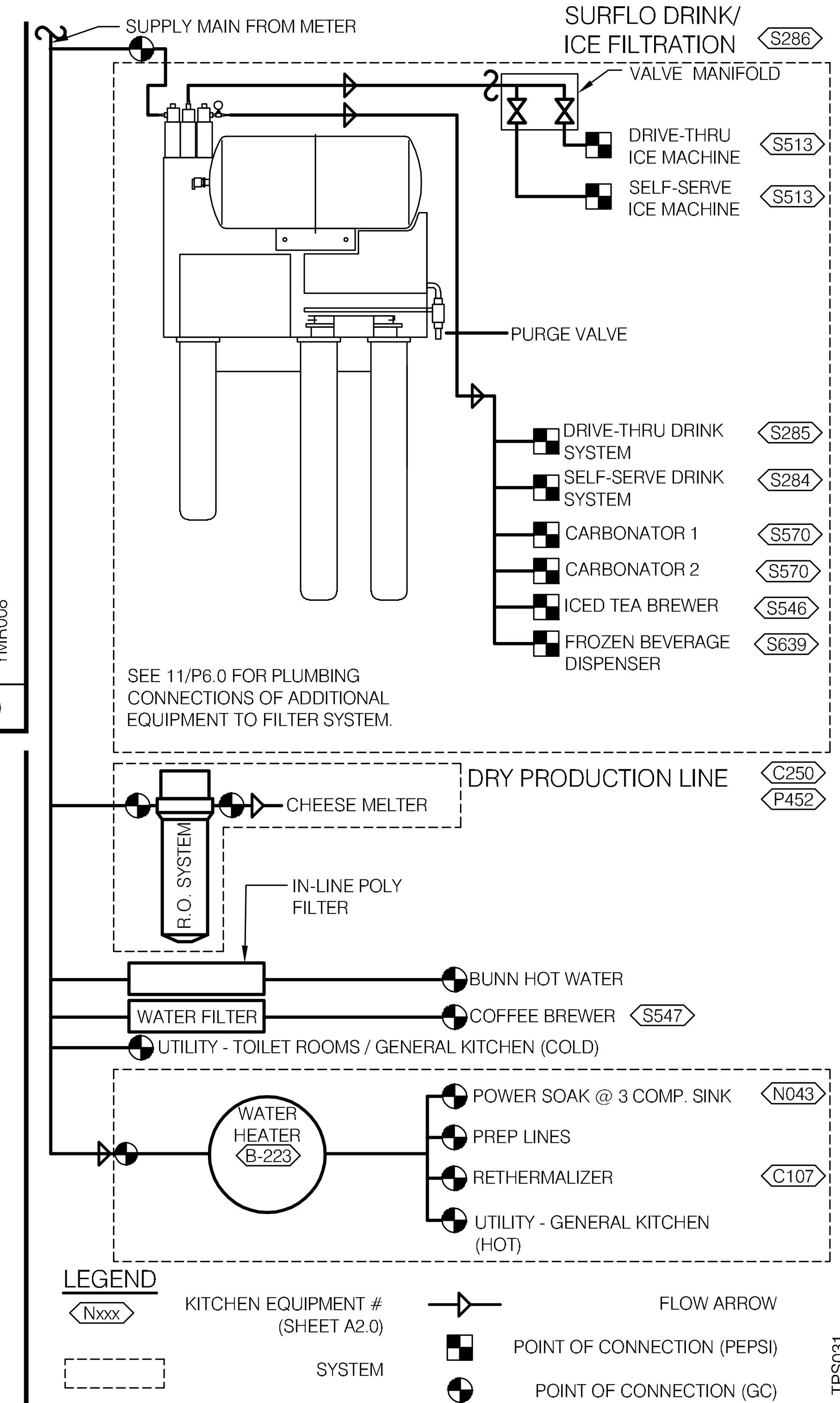
TEMPERING VALVE N.T.S. 17



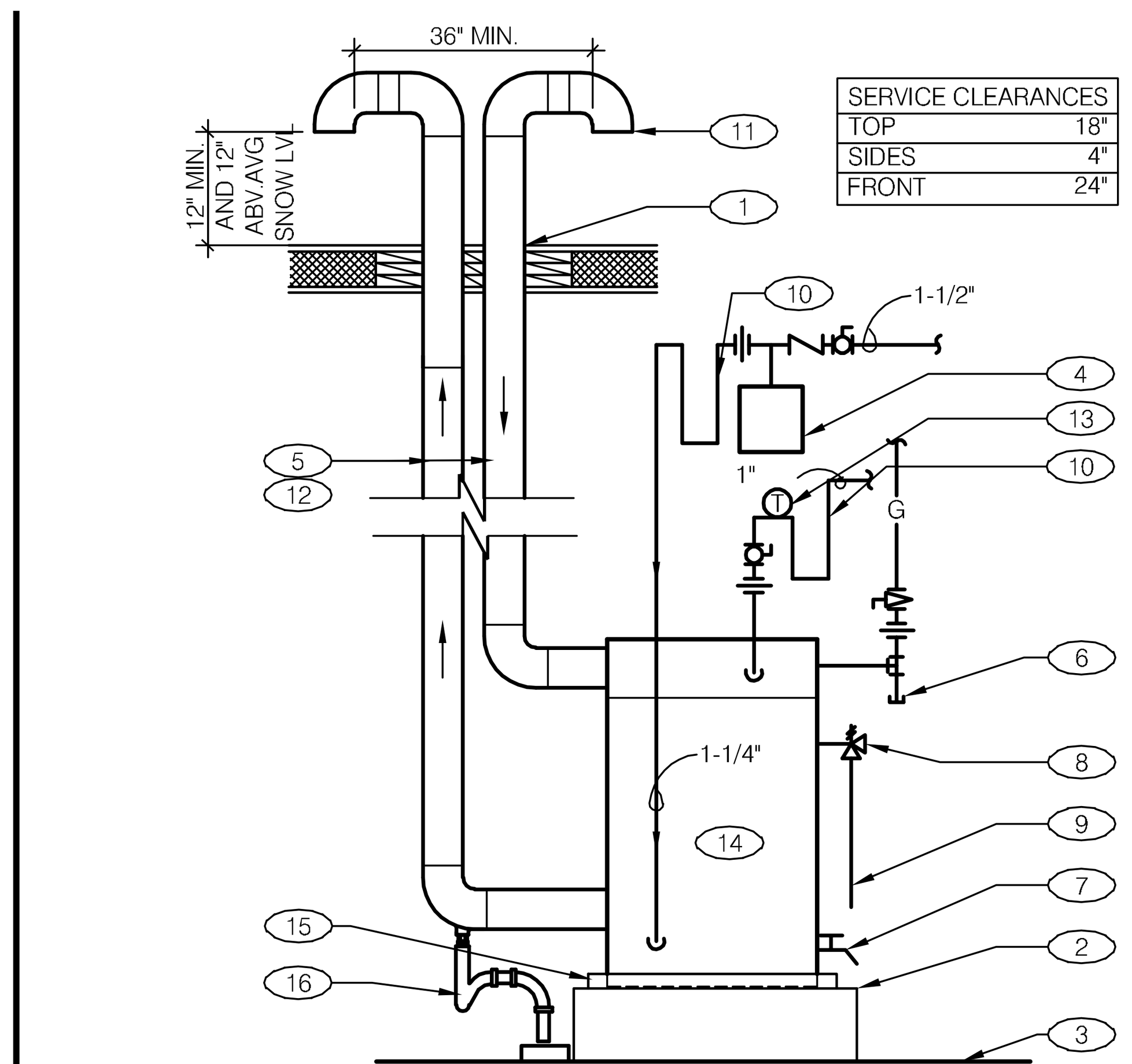
RTU CONDENSATE N.T.S. 13



REVERSE OSMOSIS SYSTEM N.T.S. 9



WATER FILTRATION SCHEMATIC N.T.S. 6

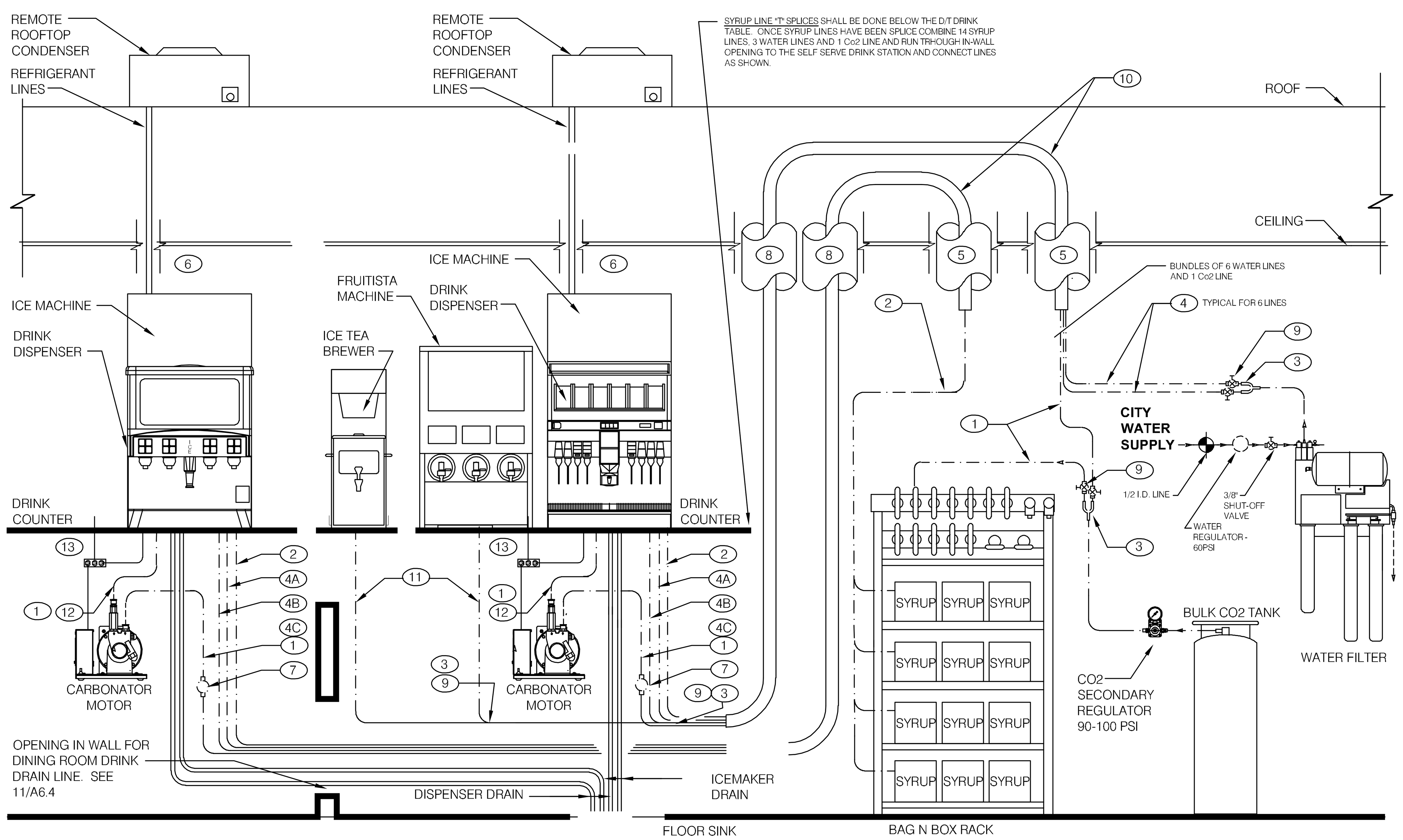


SERVICE CLEARANCES	
TOP	18"
SIDES	4"
FRONT	24"

1. FLUE THRU ROOF - SEE DETAIL 12/A6.0
2. WATER HEATER PLATFORM PROVIDED BY W.H. MANUFACTURER.
3. FINISHED FLOOR
4. THERMAL EXPANSION TANK BY WATTS - SEE PLUMBING SCHEDULE - STRAP AND SUPPORT TO WALL
5. SCHEDULE 40 PVC. MINIMIZE TURNS AND TRANSITIONS.
6. GAS COCK VALVE WITH FULL SIZE DIRT LEG
7. 3/4" DRAIN WITH VALVE & CAP
8. COMBINATION TEMPERATURE AND PRESSURE RELIEF PER LOCAL CODE
9. RUN T&P DISCHARGE FULL SIZE TO HUB DRAIN
10. 22" DEEP HEAT TRAP
11. AIR INTAKE W/ INTERNAL INSECT SCREEN PROVIDED BY MFR.
12. SUPPORT VENT PIPE RUNS EVERY 5'-0" VERTICALLY AND EVERY 3'-0" HORIZONTALLY.
13. OUTLET THERMOMETER PROVIDED BY MFR. LOCATE WITHIN 12" OF W.H. OUTLET.
14. SEE DETAIL 7/P6.0 FOR SCHEDULE OF ITEMS PROVIDED BY W.H. MFR.
15. DRAIN PAN TO HUB DRAIN.
16. P-TRAP AND LINE TO DRAIN PROVIDED BY MANUFACTURER. LEAVE AIR GAP BETWEEN BOTTOM OF TRAP AND DRAIN. SEE DETAIL E/P2.0.

YMF023

WATER HEATER N.T.S. 2



GENERAL NOTES:

1. OVERALL FILTER DIMENSIONS: 21" WIDE x 12" DEEP x 48 1/2" HIGH
2. SEE DETAIL SCOPE OF WORK FOR SCOPE DEFINITIONS.
3. ROUGH-INS SHALL BE PROVIDED BY THE CONTRACTOR.
4. INSTALLATION MUST COMPLY WITH ANY STATE OR LOCAL PLUMBING CODES.
5. THE FILTER MUST BE PROTECTED AGAINST FREEZING.
6. USE ONLY TEFLON (HIGH-LOW TEMPERATURE) TAPE TO SEAL THREADED PARTS; NO PIPE DOPE.
7. DO NOT INSTALL WHERE LINE PRESSURE EXCEEDS 125 PSI OR WHERE TEMPERATURE EXCEEDS 100 F.
8. SEE THE EQUIPMENT PLAN FOR LOCATION.
9. SEE DETAIL 12 THIS SHEET FOR BUNDLE DETAILS
10. "Y" FOR ICE MACHINES SUPPLY LINES SHALL BE INSTALLED @ FILTER OUTLET.
11. BACKFLOW PREVENTERS FOR FILTER ASSEMBLY ARE PROVIDED.

THERE ARE TWO SELF-SERVE DRINK/ICE SYSTEMS WHICH SHARE A COMMON FLOOR SINK WITH THE D/T DRINK/ICE SYSTEM.

NOTE INSTALL ELECTRICAL, WATER, AND DRAIN IN ACCORDANCE WITH ALL LOCAL, STATE & FEDERAL CODES.

EQUIPMENT RATING:
ED250 DISPENSER - 115V, 3.5 AMPS
ED300 DISPENSER - 115V, 4.0 AMPS
CARBONATOR - 115V, 60 Hz, 7.0 AMPS
BOOSTER ASSEMBLY - 115V, 60 Hz, 6.5 AMPS

DINING ROOM **DRIVE THRU** **BACK ROOM**

KEY NOTES:

1. 3/8" Co2 LINE
2. 14 - 3/8" SYRUP LINE BUNDLE
3. 1/2 X 3/8 X 3/8 "Y"
4. 3/8" FILTERED WATER LINE TO DINING & DRIVE THRU
   A. WATER LINE TO ICE MACHINE
   B. WATERLINE TO WATER DISPENSER VALVE
   C. WATERLINE TO CARBONATOR
5. BUNDLED TUBING CEILING PENETRATION. SEE DETAIL 18/A6.4
6. STAINLESS CHASE SURFACE MOUNTED FROM CEILING TO TOP OF ICE MACHINE
7. PRE-SET Co2 REGULATOR
8. SURFACE MOUNTED S.S. CHASE; ONE FOR EACH BUNDLE. SEE DTL. 19/A6.4
9. 3/8" SHUT OFF VALVES BARB FITTINGS. TYP @ ALL "Y"s
10. DRINK SYSTEM BUNDLED TUBING. SEE DETAIL 12/P6.0
11. 3/8" FILTERED WATERLINE - ICE TEA, FRUITISTA, DRINK MACHINES & ICE MACHINES
12. 3/8" LINE FOR PRESSURIZE FILTERED WATER
13. ELECTRICAL FOR DRINK SYSTEM. SEE SHEET E3.0

TPS030

DRINK SYSTEM SCHEMATIC N.T.S. 11

QTY	MODEL #	DESCRIPTION
1	SEE SHEET P1.0	HIGH EFFICIENCY COMMERCIAL WATER HEATER
1	MFK7	MANIFOLD KIT *
1	DET12	EXPANSION TANK
1	HAL	ALARM LIGHT W/ INSTALLATION INSTRUCTIONS
1	PK100	STAND

* THE FOLLOWING ARE INCLUDED IN THE MANIFOLD KIT:

QTY	DESCRIPTION	QTY	DESCRIPTION
1	3/4" BLK GAS COCK	1	3" PVC 90°
1	3/4" BLK UNION	1	1/2" PVC STREET 90°
1	3/4" BLK TEE	1	1/2" PVC 90° ELBOW
1	3/4" BLK CAP		
3	3/4" x 2 1/2" BLK NIPPLE		
1	3/4" x 4 BLK NIPPLE		
1	3/4" THD BALL VALVE		
2	1 1/2" FX UNION		
6	1 1/2" CXC 90		
1	1 1/2" CXC TEE		
2	1 1/2" BALL VALVES CXC		
1	1 1/2" CHECK VALVES CXC		
1	1 1/2" GALV ST 90		
1	1 1/2" CX ST 90		
1	HPT-507 1/2" P-TRAP		
1	1/2" P4 SMA		
1	1 1/2" x 1 1/2" x 1/2" TEE COPPER		
1	DIAL THERMOMETER		
1	1/2" COPPER FEMALE FITTING ADAPTER		

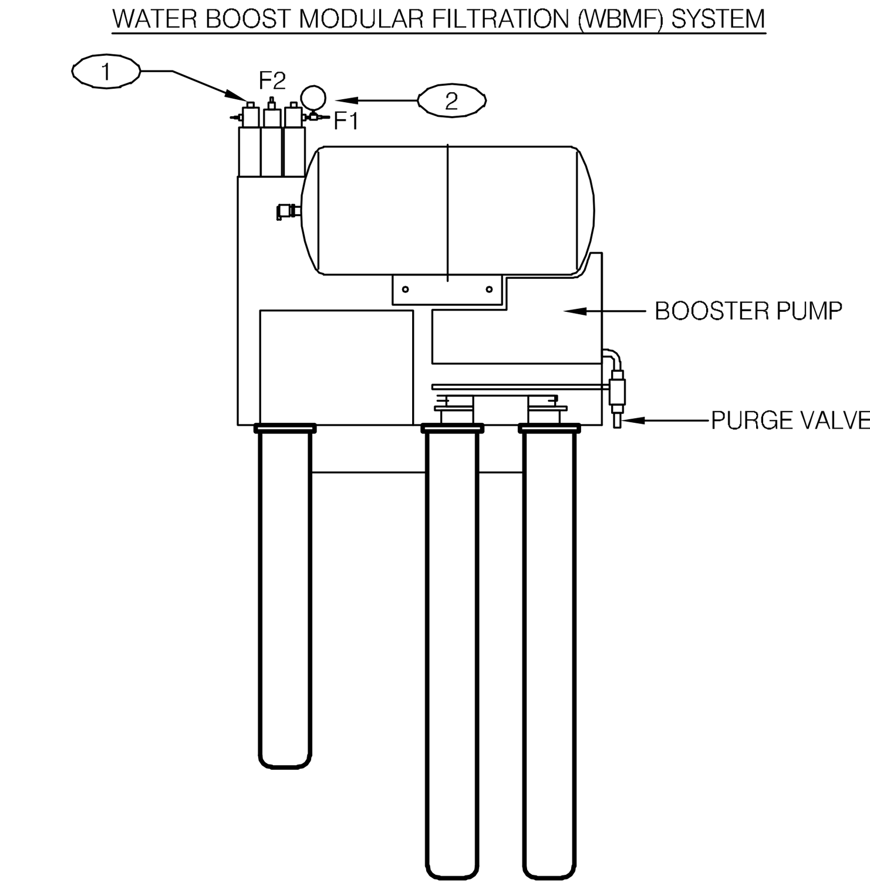
WATER HEATER SCHEDULE N.T.S. 7

ALL WORK THIS DETAIL PER DETAILS 6, 11 & 12/P6.0

FILTER LINE F1 SUPPLIES BUNDLED TUBE BY PEPSI
1. DRIVE THRU DRINK STATION
2. SELF SERVE DRINK STATION

FILTER LINE F2 SUPPLIES BUNDLED TUBE BY PEPSI
1. ICE MACHINES

WB2-M3-22-003
WATER BOOST MODULAR FILTRATION (WBMF) SYSTEM



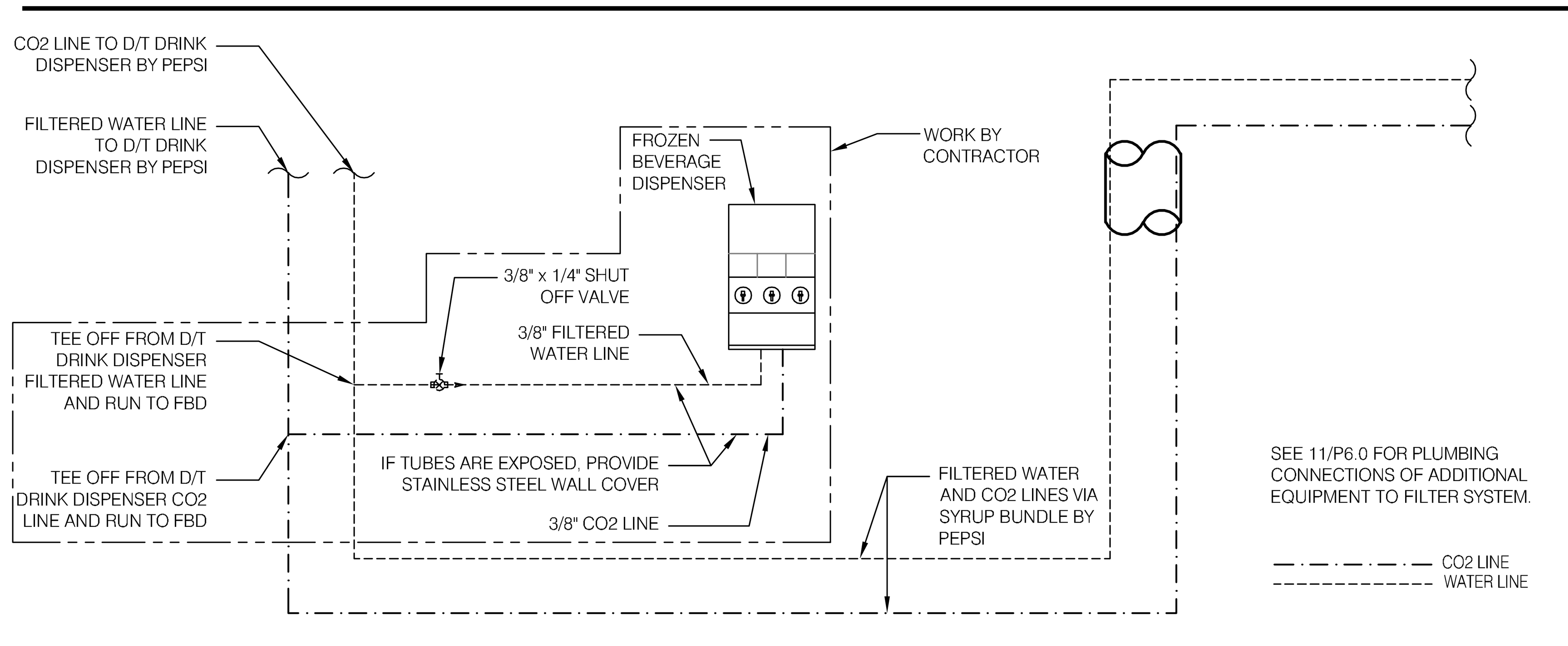
KEY NOTES:

1. 3/4" COLD WATER INLET TO 1/2" COPPER LINE AND FITTINGS AT FILTER.
2. 3/4" OUTLET W/ INTEGRAL BACKFLOW PREVENTER, EQUAL TO WATTS REGULATOR CO. SERIES 007 AND SERVICE BALL VALVE.

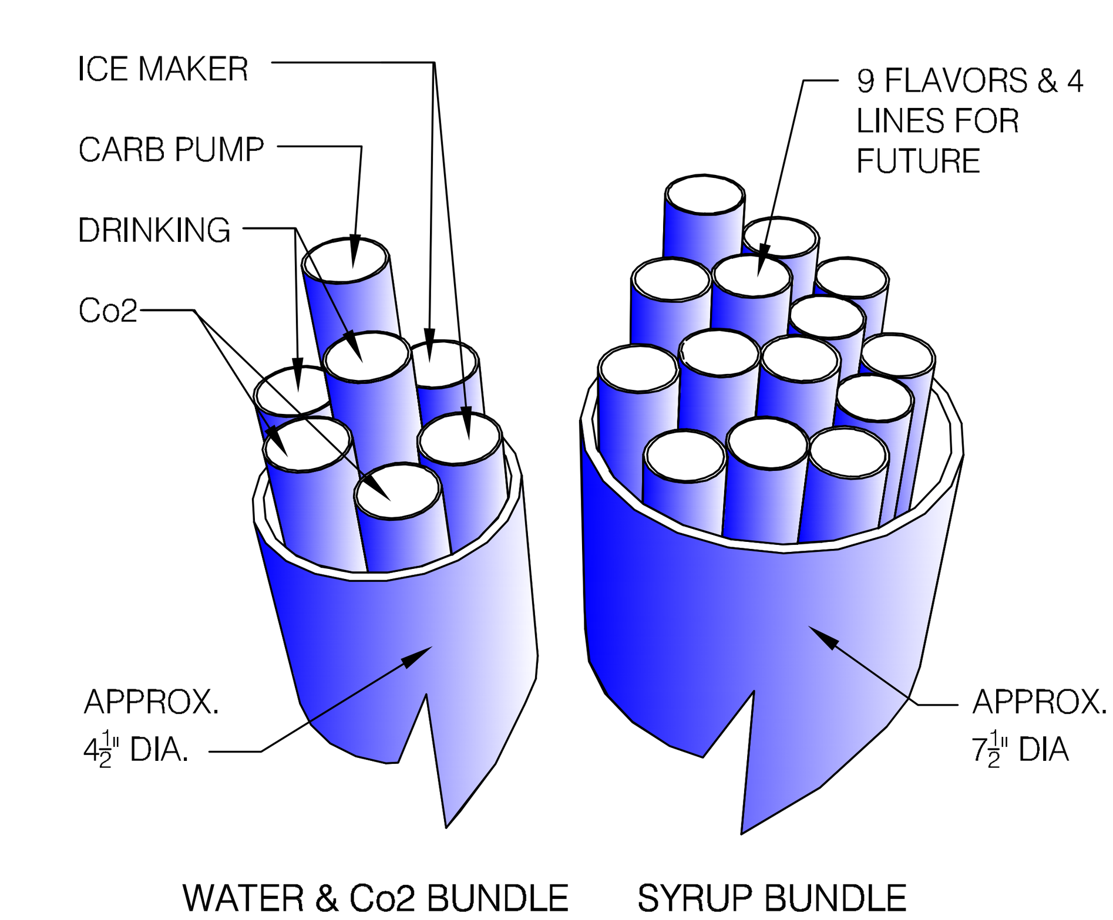
GENERAL NOTES:

1. OVERALL DIMENSIONS 21" WIDE x 12" DEEP x 48 1/2" HIGH
2. SEE SCOPE OF WORK FOR ADDITIONAL INFORMATION.
3. INSTALLATION MUST COMPLY WITH STATE OR LOCAL PLUMBING CODES.
4. THE UNIT MUST BE PROTECTED AGAINST FREEZING.
5. USE ONLY TEFLON (HIGH-LOW TEMPERATURE) TAPE TO SEAL THREADED PARTS; NO PIPE DOPE.
6. DO NOT INSTALL WHERE LINE PRESSURE EXCEEDS 125 PSI OR WHERE TEMPERATURE EXCEEDS 100 F.
7. SEE SHT. A2.0 FOR LOCATION.

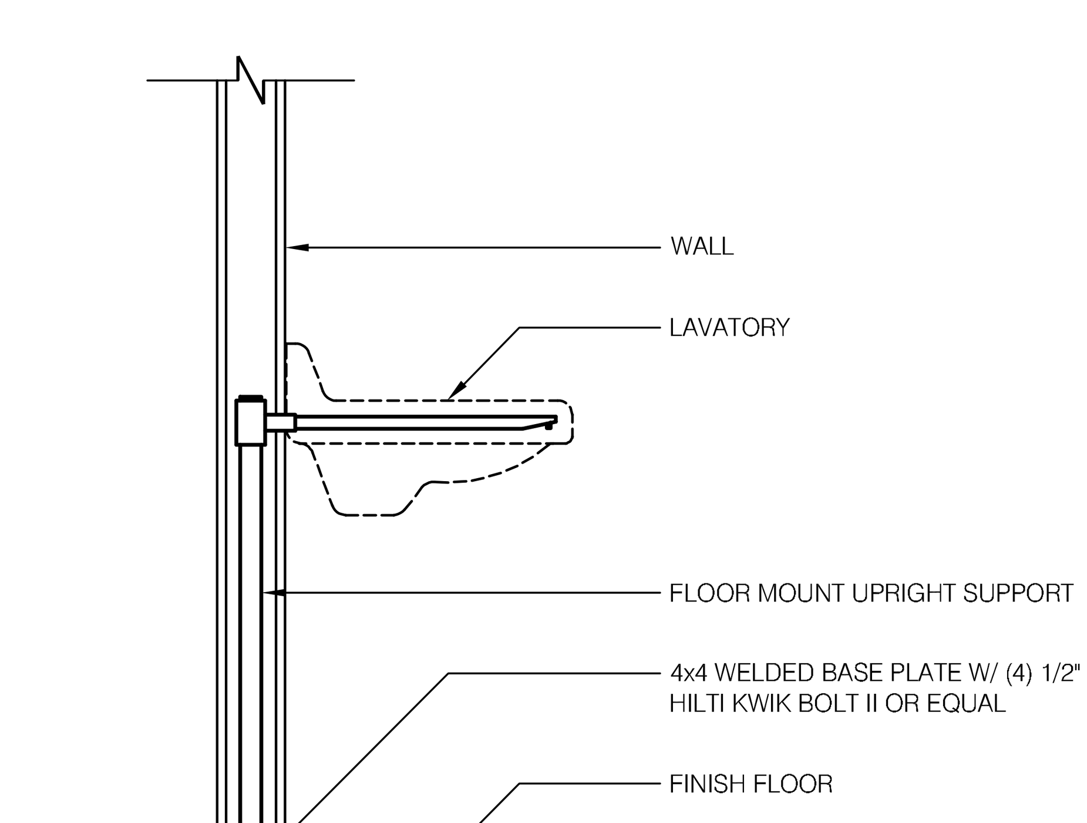
WATER FILTER SYSTEM N.T.S. 4



DRINK SYSTEM SCHEMATIC DETAIL N.T.S. 16



DRINK MACH. BUNDLE CONFIG. NTS 12



LAVATORY SUPPORT N.T.S. 8

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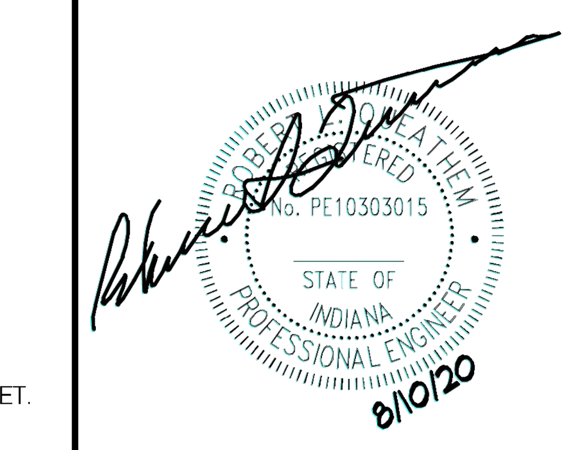

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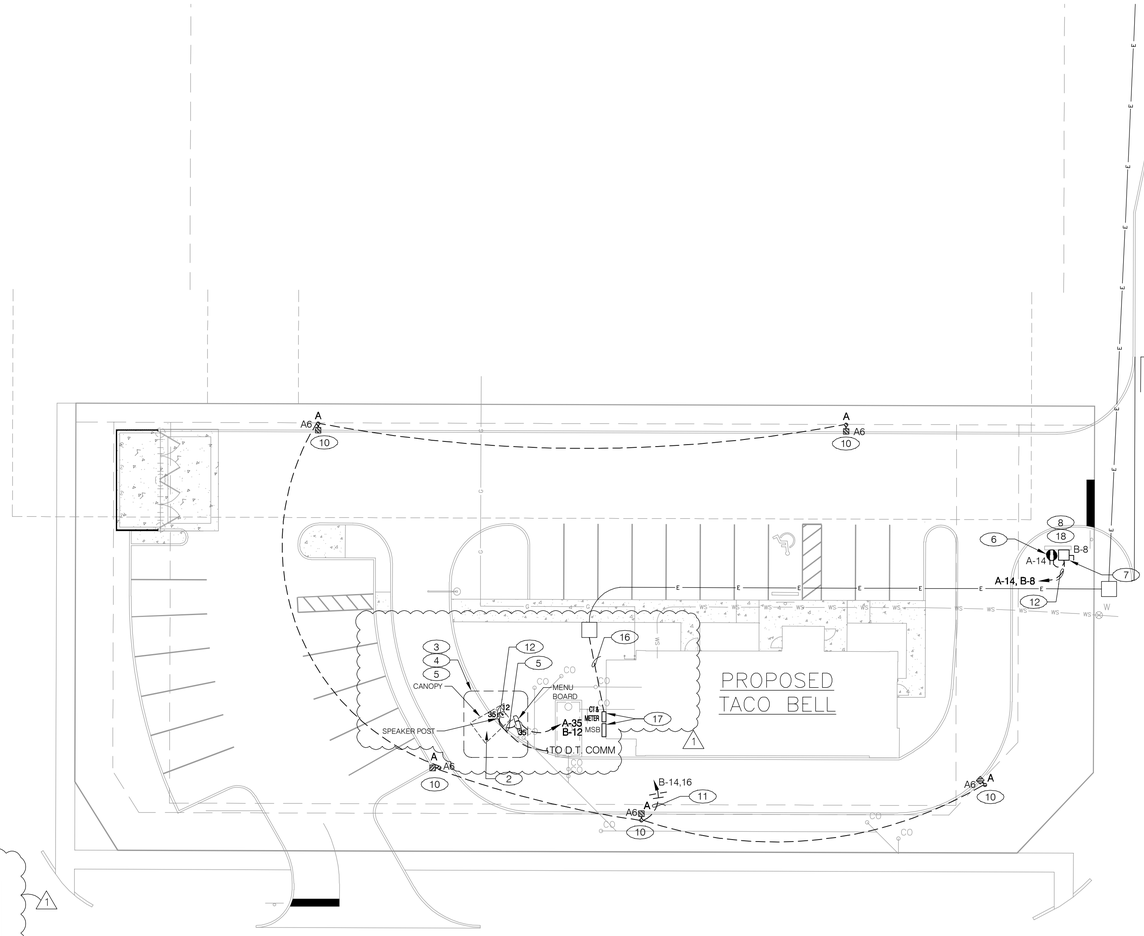
PLUMBING DETAILS

P6.0

6/29/20



MENU REQUIREMENTS

REQUIREMENTS FOR MENU BOARD:
(1) 1" CONDUITS TO DRIVE THRU COMMUNICATIONS SYSTEM (WITH PULLWIRE)
(1) (2-DEDICATED SETS) 2#10, 1#10G AND 2#10, 2#10G/IG. IN (1) 1" CONDUIT TO 120V SOURCE (SEE PLAN FOR CIRCUIT)

REQUIREMENTS FOR SPEAKER POST:
(1) 1" DATA CONDUIT TO DRIVE-THRU COMMUNICATIONS SYSTEM (WITH PULLWIRE)
(1) 1" DATA CONDUIT TO DRIVE THRU LOOP-DETECTION SYSTEM (WITH PULLWIRE)

REQUIREMENTS FOR CANOPY:
(1) 2#10, 1#10G IN 1" CONDUIT TO 120V TIME-CONTROLLED SOURCE (SEE PLAN FOR CIRCUIT)

SITE ELECTRICAL PLAN 1"=20'-0" A

NOT USED E

NOT USED D

GENERAL NOTES C

1. THE ELECTRICIAN IS RESPONSIBLE FOR ALL TEMPORARY POWER AS NECESSARY.
2. THE ELECTRICIAN IS RESPONSIBLE FOR ALL FLOOR & WALL PENETRATIONS FOR ELECTRICAL & MECHANICAL WORK. ALL SUCH OPENINGS SHALL BE FRAMED & REINFORCED.
3. ELECTRICIAN TO PROVIDE & INSTALL ALL EQUIPMENT NEUTRAL & GROUND WIRING AS REQUIRED.
4. WHERE BRANCH CIRCUIT HOMERUNS INDICATE WIRE SIZES, THE BRANCH CIRCUIT SHALL BE THAT SIZE WIRE THROUGHOUT, INCLUDING SWITCH LEGS, ETC.
5. THE ELECTRICIAN SHALL BE OBLIGATED TO VISIT THE JOB SITE PRIOR TO SUBMITTING HIS BID TO ENSURE THAT THE EXISTING SERVICE EQUIPMENT (METER, MAIN DISCONNECT SWITCH, PANELBOARDS, ETC;), ARE CORRECT & COMPLIANT TO THE ADOPTED VERSION OF THE ELECTRICAL & LOCAL GOVERNING CODES. THE CONTRACTORS INSPECTIONS SHALL INCLUDE STRUCTURAL MOUNTING OF EQUIPMENT, GROUNDING & WEATHER-PROOFING, ETC;. THE CONTRACTOR WILL NOT BE PAID COMPENSATION FOR HIS FAILURE TO VISIT THE JOB SITE.
6. ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST MUNICIPALITIES ADOPTED EDITION OF THE N.E.C. & LOCAL CODES.
7. IF DRAWINGS ARE INCORRECT FROM ACTUAL SITE CONDITIONS, ELECTRICIAN SHALL NOTIFY ENGINEER(S) & PROVIDE INFORMATION REFLECTING ACTUAL CONDITIONS.
8. COORDINATE FINAL DESIGN WITH SITE PLAN "C-SHEETS".

KEY NOTES (X) B

1. NOT USED.
2. PREFABRICATED MAGNETIC UNDERGROUND LOOP DETECTOR. REFER TO DETAIL "C". SHEET E7.0.
3. MENU BOARD AND D.T. SYSTEM. EXTEND BRANCH CIRCUIT INTO MENUBOARD. ROUTE CIRCUIT BELOW GRADE PER N.E.C.. COORDINATE WITH INSTALLER FOR STUB-UP LOCATIONS (IN FOOTING INTO MANUFACTURER'S PROVIDED JUNCTION BOX. REFER TO DETAIL C ON SHEET E7.0.
4. ORDER SPEAKER POST AND DRIVE THRU CANOPY. FIELD VERIFY EXACT REQUIREMENTS AND LOCATION OF CANOPY AND SPEAKER POST UNIT. COORDINATE INSTALLATION WITH OWNER, CIVIL AND SITE DRAWINGS. SET CONDUITS IN-PLACE PRIOR TO "FORMS" BEING POURED, PROVIDE STUB-UPS UNDER PROPOSED CANOPY, MENUBOARD AND SPEAKER POST. MAKE ALL FINAL CONNECTIONS (REFER TO MANUFACURERS INSTALLATION GUIDELINES FOR INFORMATION). PROVIDE (1) 1" CONDUIT (BELOW-GRADE) FOR POWER FOR CANOPY LIGHTING FROM MENUBOARD, (1) 1" CONDUIT (BELOW-GRADE) FOR POWER BETWEEN CANOPY AND SPEAKER POST AND (2) 1" CONDUITS (BELOW-GRADE) FOR COMMUNICATIONS FROM SPEAKER POST TO INTERIOR DRIVE THRU AREA. REFER TO ARCHITECTURAL, CIVIL DRAWINGS AND DETAIL "C" ON SHEET E7.0. CANOPY LIGHTING SHALL BE CONTROLLED VIA EXTERIOR SIGN LIGHT CONTROL SYSTEM (TIMECLOCK).
5. SEE MENU REQUIREMENTS (BOX NOTE) THIS SHEET FOR INFORMATION.
6. FURNISH AND INSTALL (1) 20A, 125V, GROUND-FAULT INTERRUPTER (GFCI) DUPLEX RECEPTACLE WITH A STEEL WEATHER-PROOF IN-USE COVER, FOR SERVICE. MOUNT ON OR ADJACENT TO SIGN. COORDINATE WITH SIGN MANUFACTURER.
7. 20 AMP WEATHERPROOF TOGGLE SWITCH FOR SIGN DISCONNECT SWITCH. VERIFY DISCONNECT SWITCH MOUNTING LOCATION WITH SIGN VENDOR AND MAKE FINAL CONNECTIONS TO SIGN.
8. STUB UP UNDERGROUND CONDUIT AND INSTALL A WEATHERPROOF J-BOX WITH GASKETED BLANK COVER PLATE. EXTEND CIRCUITS IN SEALTITE CONDUIT FROM J-BOX TO RECEPTACLE AND SIGN DISCONNECT SWITCH.
9. NOT USED.
10. LIGHT POLE BASES TO BE DESIGNED TO ACCOMMODATE LIGHT POLES. SEE CIVIL AND SITE DRAWINGS FOR BASE DETAIL AND ADDITIONAL BASE INFORMATION. SEE SHEET E4.0, DETAIL 'C' FOR ADDITIONAL POLE INFORMATION.
11. 1" C. - 2 #6, 1#10 G. (TYP. FOR ENTIRE CIRCUIT.)
12. 1" C. - 2 #8, 1#10 G. (TYP. FOR ENTIRE CIRCUIT.)
13. NOT USED.
14. NOT USED.
15. NOT USED
16. NEW U.G. 120/208V, 3PH, 4W SECONDARY ELECTRICAL SERVICE CONDUCTORS. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
17. APPROXIMATE LOCATION OF NEW ELECTRICAL SWITCHGEAR. COORDINATE EXACT MOUNTING/STUB-UP LOCATION WITH UTILITY COMPANY IN FIELD. SEE SHEET E2.0 FOR ADDITIONAL INFORMATION/REQUIREMENTS.
18. EXACT LOCATION OF SITE PYLON/MONUMENT SIGN TO BE DETERMINED BY SIGN VENDOR. SIGN LOCATION SHOWN POWER REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY LOCATION OF PYLON/MONUMENT SIGN PRIOR TO ROUTING/INSTALLING POWER TO SITE SIGNAGE. SIGNAGE UNDER SEPARATE PERMIT.

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REGISTERED PROFESSIONAL ENGINEER
No. PE10303015
STATE OF INDIANA
8/10/20

1 OWN/STATE COMMENTS 08.10.20

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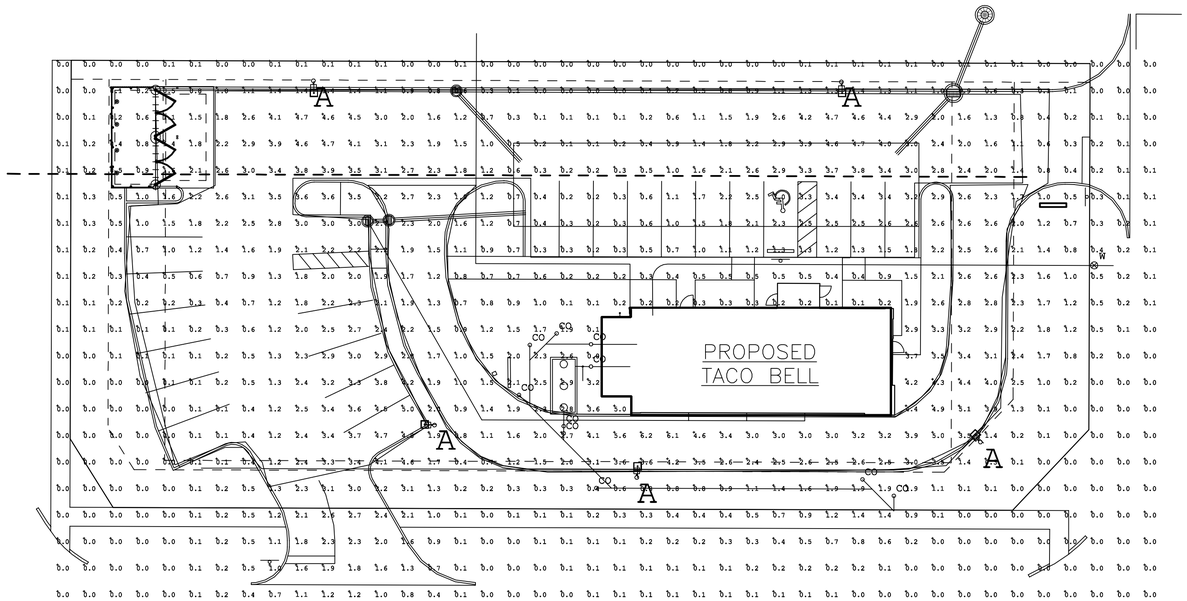
TACO BELL
EXPLORER LITE
MEDIUM40

SITE ELECTRICAL PLAN

E1.0

6/29/20



Luminaire Schedule			
Symbol	Qty	Label	Description
	5	A	MRM-LED-18L-SIL-FT-40-70CRI-IL WITH REAR HOUSING SHIELD MOUNTED AT 20'

Calculation Summary					
Label	Avg	Max	Min	Avg/Min	Max/Min
-	N.A.	N.A.	N.A.	N.A.	N.A.
DRIVE THRU SURFACE	2.70	6.2	0.8	3.38	7.75
ENTIRE SITE	1.96	6.2	0.0	N.A.	N.A.
PARKING LOT SURFACE	1.90	5.0	0.0	N.A.	N.A.

BASED ON THE INFORMATION PROVIDED, ALL DIMENSIONS AND LUMINAIRE LOCATIONS SHOWN REPRESENT RECOMMENDED POSITIONS OR POSITIONS PROVIDED BY THIRD PARTY. THE ENGINEER AND/OR ARCHITECT HAVE THE SOLE RESPONSIBILITY TO DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING OR FUTURE FIELD CONDITIONS.

THIS LIGHTING PATTERN REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS UTILIZING CURRENT INDUSTRY STANDARD LAMP RATINGS IN ACCORDANCE WITH IES APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER VARIABLE FIELD CONDITIONS.

ARCVISION INCORPORATED
ARCHITECTURE • ENGINEERING • STORE PLANNING
SAINT LOUIS / DALLAS / LAS VEGAS / ORLANDO
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

REGISTERED PROFESSIONAL ENGINEER
No. PE10303015
STATE OF INDIANA
8/10/20

⚠1	OWN/STATE COMMENTS 08.10.20
⚠2	
⚠3	
⚠4	
⚠5	

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

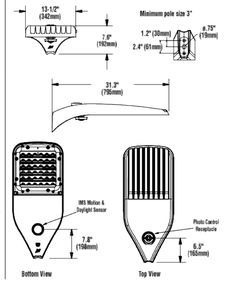
TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

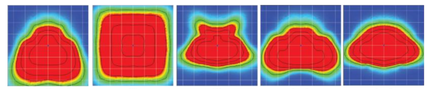
TACO BELL
EXPLORER LITE
MEDIUM40

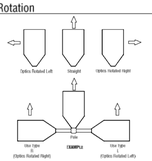
SITE PHOTOMETRIC PLAN

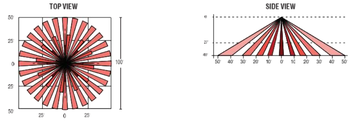
E1.1

6/29/20









Catalog # :	Project :
Prepared By :	Date :

Mirada Medium - MRM
Outdoor LED Area Light

The Mirada's sleek design makes it perfectly-suited for architectural & commercial applications, while its cost-effective die-cast aluminum housing makes its acquisition cost very competitive. The Mirada offers high performance factory-rotatable silicone optics, 5 standard CCTs, 42,000+ delivered lumens, and is available with integral Airlink™ Wireless Controls.

Features & Specifications

Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 5W, FT and FTA.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.
- Zero uplight.
- Available in 5000K, 4000K, 3000K, and 2700K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.
- Integral Louver (IL) option available for improved back-light control without sacrificing street side performance. See page 5 for more details.

Electrical

- High-performance driver features over-voltage, under-voltage, short-circuit and over temperature protection.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance on Page 2)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L lumen package rated to +40°C.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Terminal block provided accepts up to 10ga wire.
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

WIRELESS CONTROLS · IP66 · RoHS COMPLIANT · ARRA Funding Compliant · c UL us LISTED · MANUFACTURED IN USA · TITLE 24 COMPLIANT · ida DARK SKY APPROVED · DLC LISTED · DLC PREMIUM

Product Dimensions

LSI Industries Inc. 10000 Alliance Rd. Cincinnati, OH 45242 • www.lsi-industries.com • (513) 372-3200 • ©LSI Industries Inc. All Rights Reserved.

Features & Specifications (Cont.)

Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to square or round poles.
- Luminaire is proudly manufactured in the U.S.of U.S. and imported parts.
- IP66 rated luminaire protects integral components from harsh environments.
- 3G rated for ANSI C136.31 high vibration applications
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 30 lbs in carton.

Controls

Wireless Controls System

To make this fixture AirLink ready, simply order one of the following options:

a. The integrated Wireless Lighting Controller: ALSC or ALSCH (see ordering guide) as the controls option, or

b. Integrated Wireless Controller option (above) with integrated motion sensor: ALSCS (ordering guide for mounting heights) or

c. The 7-Pin Photoelectric Control Receptacle: CR7P as the controls option; and either the 5-Pin or 7-Pin Twist Lock Controller: ALSC UNV TL5 or ALSC UNV TL7 as an accessory

To see how the components of AirLink system work together, reference the diagram in the controls section of this specsheet. For more information on our AirLink products, visit our website: www.lsi-airlink.com/airlink-synapse/

Stand-Alone Controls

- The integral passive infrared motion sensor (IMS) activates switching of luminaire light levels (see the controls section for more details).
- The 7-pin ANSI C136.41-2013 photocontrol receptacle option (CR7P) is available for twist lock photocontrols or wireless control modules.
- The Button Type Photocells (PCI) are capable of switching luminaires ON/OFF in response to the amount of available daylight.

Installation

- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment for installing/servicing.
- Included terminal block provides quick and easy on-site wiring.
- Utilizes LSI's traditional 3" drill pattern for easy fastening of LSI products. (See drawing on page 1)

Warranty

- LSI LED Fixtures carry a 5-year warranty.

Listings

- Listed to UL 1598 and UL 8750.
- RoHS Compliant.
- American Recovery and Reinvestment Act Funding Compliant.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable For wet Locations.
- IP66 rated Luminaire. IP66 rated optical chamber.
- 3G rated for ANSI C136.31 high vibration applications
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Performance

ELECTRICAL DATA (AMPS)*

Lumens	Watts	120V	208V	240V	277V	347V	480V
7L	53	0.4A	0.3A	0.2A	0.2A	0.2A	0.1A
9L	69	0.6A	0.3A	0.3A	0.2A	0.2A	0.1A
12L	94	0.8A	0.5A	0.4A	0.3A	0.3A	0.2A
18L	150	1.2A	0.7A	0.6A	0.5A	0.4A	0.3A
24L	187	1.6A	0.9A	0.8A	0.7A	0.5A	0.4A
30L	247	2.1A	1.2A	1.0A	0.9A	0.7A	0.5A
36L	317	2.6A	1.5A	1.3A	1.1A	0.9A	0.7A
42L	390	3.2A	1.9A	1.6A	1.4A	1.1A	0.8A

*Electrical data at 25C (77F). Actual wattage may differ by +/-10%

ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)*

Lumens	Watts	120V	208V	240V	277V	347V	480V
9L	74.3	0.6A	0.4A	0.3A	0.3A	0.2A	0.2A
12L	102.9	0.9A	0.5A	0.4A	0.4A	0.3A	0.2A

*Electrical data at 25C (77F). Actual wattage may differ by +/-10%

RECOMMENDED LUMEN MAINTENANCE[1](24-42L)

Ambient	Initial[2]	25 hr[2]	50 hr[2]	75 hr[3]	100 hr[3]
0-40 C	100%	100%	97%	94%	92%

RECOMMENDED LUMEN MAINTENANCE[1](7-18L)

Ambient	Initial[2]	25 hr[2]	50 hr[2]	75 hr[3]	100 hr[3]
0-50 C	100%	96%	92%	88%	84%

1- Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
2- In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
3- In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing

DELIVERED LUMENS*

Lumen Package	Distribution	Phosphor Converted Amber (Peak 610nm) Delivered Lumens	Efficacy	BUG Rating	Wattage
9L	2	5848	80	B2-U0-G2	74
	2 - IL	3644	50	B0-U0-G1	
	3	6018	82	B1-U0-G2	
	3 - IL	4468	61	B0-U0-G2	
	5W	5471	74	B3-U0-G1	
	FT	5801	79	B1-U0-G2	
	FT - IL	3649	50	B0-U0-G1	
	FTA	5924	81	B1-U0-G1	
	FTA - IL	4243	58	B1-U0-G1	
12L	2	7530	74	B2-U0-G2	102
	2 - IL	4692	46	B0-U0-G1	
	3	7749	76	B1-U0-G2	
	3 - IL	5753	57	B0-U0-G2	
	5W	7045	69	B3-U0-G2	
	FT	7470	73	B2-U0-G2	
	FT - IL	4699	46	B0-U0-G2	
	FTA	7628	75	B2-U0-G2	
	FTA - IL	5464	54	B1-U0-G1	

*LED Chips are frequently updated therefore values are nominal

LUMINAIRE EPA CHART - MRM

Tilt Degree	0°	30°	45°	Tilt Degree	0°	30°	45°
Single	0.5	1.5	1.9	T90°	1.0	2.5	2.8
D180°	1.0	1.5	1.9	TN120°	1.0	3.3	3.9
D90°	0.8	1.9	2.3	Q90°	1.0	2.5	2.8

Specifications and dimensions subject to change without notice.

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DELIVERED LUMENS*

Lumen Package	Distribution	CRI	2700K CCT Delivered Lumens	Efficacy	BUG Rating	3000K CCT Delivered Lumens	Efficacy	BUG Rating	4000K CCT Delivered Lumens	Efficacy	BUG Rating	5000K CCT Delivered Lumens	Efficacy	BUG Rating	Wattage
7L	2	70	6550	124	B2-U0-G1	6711	127	B2-U0-G1	7208	137	B2-U0-G2	7596	144	B2-U0-G2	53
	2 - IL	70	4068	77	B0-U0-G1	4167	79	B0-U0-G1	4476	85	B0-U0-G1	4717	89	B0-U0-G1	
	3	70	6724	127	B1-U0-G2	6889	130	B1-U0-G2	7400	140	B1-U0-G2	7798	148	B1-U0-G2	
	3 - IL	70	4929	93	B0-U0-G2	5050	96	B0-U0-G2	5424	103	B0-U0-G2	5716	108	B0-U0-G2	
	5W	70	6400	121	B3-U0-G1	6557	124	B3-U0-G1	7043	133	B3-U0-G2	7422	141	B3-U0-G2	
	FT	70	6540	124	B1-U0-G2	6701	127	B1-U0-G2	7197	136	B1-U0-G2	7584	144	B2-U0-G2	
	FT - IL	70	4231	80	B0-U0-G2	4334	82	B0-U0-G2	4656	88	B0-U0-G2	4906	93	B0-U0-G2	
	FTA	70	6636	126	B1-U0-G1	6799	129	B2-U0-G1	7303	138	B2-U0-G1	7696	146	B2-U0-G1	
	FTA - IL	70	4864	92	B1-U0-G1	4984	94	B1-U0-G1	5353	101	B1-U0-G1	5641	107	B1-U0-G1	
9L	2	70	8349	122	B2-U0-G2	8576	125	B2-U0-G2	9396	137	B2-U0-G2	9784	143	B2-U0-G2	69
	2 IL	70	5185	76	B0-U0-G1	5326	78	B0-U0-G1	5835	85	B0-U0-G1	6076	89	B0-U0-G1	
	3	70	8571	125	B1-U0-G2	8804	129	B1-U0-G2	9646	141	B2-U0-G2	10044	147	B2-U0-G2	
	3 IL	70	6283	92	B0-U0-G2	6454	94	B0-U0-G2	7071	103	B0-U0-G2	7363	107	B0-U0-G2	
	5W	70	8158	119	B3-U0-G2	8380	122	B3-U0-G2	9181	134	B3-U0-G2	9560	140	B4-U0-G2	
	FT	70	8337	122	B2-U0-G2	8563	125	B2-U0-G2	9382	137	B2-U0-G2	9769	143	B2-U0-G2	
	FT IL	70	5393	79	B0-U0-G2	5540	81	B0-U0-G2	6069	89	B0-U0-G2	6320	92	B0-U0-G2	
	FTA	70	8459	123	B2-U0-G2	8689	127	B2-U0-G2	9520	139	B2-U0-G2	9913	145	B2-U0-G2	
	FTA IL	70	6200	91	B1-U0-G1	6369	93	B1-U0-G1	6978	102	B1-U0-G1	7266	106	B1-U0-G1	
12L	2	70	11157	119	B2-U0-G2	11461	122	B2-U0-G2	12556	134	B3-U0-G2	13075	139	B3-U0-G2	94
	2 IL	70	6929	74	B1-U0-G1	7117	76	B1-U0-G2	7798	83	B1-U0-G2	8119	86	B1-U0-G2	
	3	70	11454	122	B2-U0-G2	11766	125	B2-U0-G2	12890	137	B2-U0-G2	13423	143	B2-U0-G2	
	3 IL	70	8396	89	B0-U0-G2	8625	92	B0-U0-G2	9449	101	B0-U0-G2	9839	105	B0-U0-G2	
	5W	70	10902	116	B4-U0-G2	11199	119	B4-U0-G2	12269	131	B4-U0-G2	12775	136	B4-U0-G2	
	FT	70	11141	119	B2-U0-G2	11444	122	B2-U0-G2	12538	133	B2-U0-G3	13055	139	B2-U0-G3	
	FT IL	70	7207	77	B0-U0-G2	7403	79	B0-U0-G2	8110	86	B0-U0-G2	8445	90	B0-U0-G2	
	FTA	70	11304	120	B2-U0-G2	11612	124	B2-U0-G2	12722	135	B2-U0-G2	13247	141	B2-U0-G2	
	FTA IL	70	8286	88	B1-U0-G1	8511	91	B1-U0-G1	9325	99	B1-U0-G1	9710	103	B1-U0-G1	
18L	2	70	16714	112	B3-U0-G3	17168	115	B3-U0-G3	18809	126	B3-U0-G3	19586	131	B3-U0-G3	150
	2 IL	70	10379	69	B1-U0-G2	10662	71	B1-U0-G2	11681	78	B1-U0-G2	12163	81	B1-U0-G2	
	3	70	17158	115	B2-U0-G3	17625	118	B2-U0-G3	19310	129	B3-U0-G3	20107	134	B3-U0-G3	
	3 IL	70	12578	84	B1-U0-G3	12920	86	B1-U0-G3	14155	95	B1-U0-G3	14739	99	B1-U0-G3	
	5W	70	16331	109	B4-U0-G2	16776	112	B4-U0-G2	18379	123	B4-U0-G2	19138	128	B5-U0-G3	
	FT	70	16689	112	B3-U0-G3	17143	115	B3-U0-G3	18781	126	B3-U0-G4	19557	131	B3-U0-G4	
	FT IL	70	10795	72	B1-U0-G2	11089	74	B1-U0-G2	12149	81	B1-U0-G3	12651	85	B1-U0-G3	
	FTA	70	16934	113	B3-U0-G3	17395	116	B3-U0-G3	19058	127	B3-U0-G3	19844	133	B3-U0-G3	
	FTA IL	70	12412	83	B1-U0-G1	12750	85	B1-U0-G2	13969	93	B1-U0-G2	14546	97	B1-U0-G2	
24L	2	70	20880	112	B3-U0-G3	22701	121	B4-U0-G3	24276	130	B4-U0-G3	24784	133	B4-U0-G3	187
	2 IL	70	13100	70	B1-U0-G2	14243	76	B1-U0-G2	15231	81	B1-U0-G2	15550	83	B1-U0-G2	
	3	70	21739	116	B3-U0-G3	23636	126	B3-U0-G4	25275	135	B3-U0-G4	25804	138	B3-U0-G4	
	3 IL	70	15828	85	B1-U0-G3	17209	92	B1-U0-G3	18403	98	B1-U0-G4	18788	100	B1-U0-G4	
	5W	70	20632	110	B5-U0-G3	22432	120	B5-U0-G3	23988	128	B5-U0-G3	24490	131	B5-U0-G3	
	FT	70	21611	116	B3-U0-G4	23496	126	B3-U0-G4	25126	134	B3-U0-G4	25652	137	B3-U0-G4	
	FT IL	70	13692	73	B1-U0-G3	14886	80	B1-U0-G3	15919	85	B1-U0-G3	16252	87	B1-U0-G3	
	FTA	70	21496	115	B3-U0-G3	23371	125	B3-U0-G3	24992	134	B3-U0-G3	25515	136	B3-U0-G3	
	FTA IL	70	15226	81	B1-U0-G2	16555	89	B1-U0-G2	17703	95	B2-U0-G2	18073	97	B2-U0-G2	
30L	2	70	26581	108	B4-U0-G3	28900	117	B4-U0-G3	30905	125	B4-U0-G3	31551	128	B4-U0-G3	247
	2 IL	70	16677	68	B1-U0-G2	18132	73	B1-U0-G2	19390	79	B1-U0-G2	19796	80	B1-U0-G2	
	3	70	27675	112	B3-U0-G4	30089	122	B3-U0-G4	32176	130	B3-U0-G4	32850	133	B3-U0-G4	
	3 IL	70	20150	82	B1-U0-G4	21908	89	B1-U0-G4	23428	95	B1-U0-G4	23918	97	B1-U0-G4	
	5W	70	26266	106	B5-U0-G3	28557	116	B5-U0-G3	30538	124	B5-U0-G4	31177	126	B5-U0-G4	
	FT	70	27512	111	B3-U0-G4	29912	121	B3-U0-G4	31987	130	B3-U0-G4	32656	132	B3-U0-G5	
	FT IL	70	17430	71	B1-U0-G3	18951	77	B1-U0-G4	20266	82	B1-U0-G4	20690	84	B1-U0-G4	
	FTA	70	27365	111	B3-U0-G3	29752	120	B4-U0-G3	31816	129	B4-U0-G3	32482	132	B4-U0-G3	
	FTA IL	70	19384	78	B2-U0-G2	21075	85	B2-U0-G2	22537	91	B2-U0-G2	23008	93	B2-U0-G2	
36L	2	70	32214	102	B4-U0-G3	35025	111	B4-U0-G3	37454	118	B4-U0-G3	38238	121	B4-U0-G4	317
	2 IL	70	20212	64	B1-U0-G2	21975	69	B1-U0-G3	23499	74	B2-U0-G3	23991	76	B2-U0-G3	
	3	70	33540	106	B3-U0-G4	36466	115	B3-U0-G5	38996	123	B3-U0-G5	39812	126	B3-U0-G5	
	3 IL	70	24421	77	B1-U0-G4	26551	84	B1-U0-G4	28393	90	B1-U0-G4	28987	92	B1-U0-G5	
	5W	70	31832	101	B5-U0-G4	34609	109	B5-U0-G4	37010	117	B5-U0-G4	37785	119	B5-U0-G4	
	FT	70	33342	105	B3-U0-G5	36251	114	B3-U0-G5	38766	122	B4-U0-G5	39577	125	B4-U0-G5	
	FT IL	70	21125	67	B1-U0-G4	22968	73	B1-U0-G4	24561	78	B1-U0-G4	25075	79	B1-U0-G4	
	FTA	70	33164	105	B4-U0-G3	36058	114	B4-U0-G4	38559	122	B4-U0-G4	39366	124	B4-U0-G3	
	FTA IL	70	23492	74	B2-U0-G2	25541	81	B2-U0-G2	27313	86	B2-U0-G2	27885	88	B2-U0-G2	
42L	2	70	36785	94	B4-U0-G3	39994	103	B5-U0-G4	42768	110	B5-U0-G4	43663	112	B5-U0-G4	390
	2 IL	70	23079	59	B1-U0-G3	25093	64	B2-U0-G3	26833	69	B2-U0-G3	27395	70	B2-U0-G3	
	3	70	38299	98	B3-U0-G5	41640	107	B4-U0-G5	44528	114	B4-U0-G5	45460	117	B4-U0-G5	
	3 IL	70	27886	72	B1-U0-G4	30319	78	B1-U0-G5	32422	83	B1-U0-G5	33100	85	B1-U0-G5	
	5W	70	36349	93	B5-U0-G4	39520	101	B5-U0-G4	42261	108	B5-U0-G4	43145	111	B5-U0-G4	
	FT	70	38073	98	B4-U0-G5	41395	106	B4-U0-G5	44266	114	B4-U0-G5	45192	116	B4-U0-G5	
	FT IL	70	24122	62	B1-U0-G4	26226	67	B1-U0-G4	28045	72	B1-U0-G4	28632	73	B1-U0-G4	
	FTA	70	37870	97	B4-U0-G4	41174	106	B4-U0-G4	44030	113	B4-U0-G4	44951	115	B4-U0-G4	
	FTA IL	70	26825	69	B2-U0-G2	29165	75	B2-U0-G2	31188	80	B2-U0-G2	31841	82	B2-U0-G2	

*LED Chips are frequently updated therefore values are nominal

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Performance (Cont.)

All published luminaire photometric testing performed to IESNA LM-79 standards. ISO footcandle plots below demonstrate the Mirada (MRM) light patterns only. Not for total fixture output. For complete specifications and IES files, see website.

Ordering Guide

TYPICAL ORDER EXAMPLE: **MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL**

Luminaire Prefix	Light Source	Lumen Package*	Light Output	Distribution	Orientation[1]	Voltage	Driver
MRM Mirada	**LED**	**7L** - 7,000 lms **9L** - 9,000 lms **12L** - 12,000 lms **18L** - 18,000 lms **24L** - 24,000 lms **30L** - 30,000 lms **36L** - 36,000 lms **42L** - 42,000 lms *Consult factory for programmable wattages and lumen packages	**SIL** - Silicone	**2** - Type 2 **3** - Type 3 **5W** - Type 5 Wide **FT** - Forward Throw **FTA** - Forward Throw Automotive	**(blank)** - standard L- Optics rotated left 90 **R** - Optics rotated right 90	**UNV** - Universal Voltage (120-277V) **HV** - High Voltage (347-480V)	**DIM** - 0-10V Dimming (0-10%)

Color Temp	Color Rendering	Controls (Choose One)	Finish	Options
50 - 5,000 CCT **40** - 4,000 CCT **30** - 3,000 CCT[2] **27** - 2,700 CCT[2] **AMB** - Phosphor Converted Amber[2,3]	**70CRI** - 70 CRI	**(Blank)** - None **Wireless Controls System** **ALSC** - AirLink Synapse Control System[4] **ALSCH** - AirLink Synapse Control System Host / Satelite[4,5] **ALSCS01** - AirLink Synapse Control System with 8-12' Motion Sensor[4] **ALSCHS01** - AirLink Synapse Control System Host / Satelite with 8-12' Motion Sensor[4,5] **ALSCS02** - AirLink Synapse Control System with 12-20' Motion Sensor[4] **ALSCHS02** - AirLink Synapse Control System Host / Satelite with 12-20' Motion Sensor[4,5] **ALSCS04** - AirLink Synapse Control System with 20-40' Motion Sensor[4] **ALSCHS04** - AirLink Synapse Control System Host / Satelite with 20-40' Motion Sensor[4,5] **Stand-Alone Controls** **EXT** - 0-10v Dimming (from external signal) **IMSOM1** - Integral Motion Sensor 8-12' 120-277V[4,5] **IMSOM2** - Integral Motion Sensor 12-20' 120-277V[4,6] **IMSOM4** - Integral Motion Sensor 20-40' 120-277V[4,6] **IMSOM1HV** - Integral Motion Sensor 8-12' 347-480V[6,11] **IMSOM2HV** - Integral Motion Sensor 12-20' 347-480V[6,11] **IMSOM4HV** - Integral Motion Sensor 20-40' 347-480V[6,11] **CR7P** - 7 Pin Control Receptacle ANSI C136.41[7] **Button Type Photocells** **PCI120** - 120V **PCI208-277** - 208 -277V **PCI347** - 347V	**BRZ** - Bronze **BLK** - Black **GPT** - Graphite **MSV** - Metallic Silver **WHT** - White **PLP** - Platinum Plus **SVG** - Satin Verde Green	**(Blank)** - None **IL** - Integral Louver HSS[1]

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Accessory Ordering Information

Description	Order Number	Description	Order Number
PC120 Photocell for use with CR7P option (120V)[9]	122514	Pole Quick Mount Bracket - Square Pole[10]	687073CLR
PC208-277 Photocell for use with CR7P option (208V, 240V, 277V)[9]	122515	Pole Quick Mount Bracket - 4-5' Round Pole[10]	689903CLR
PC347 Photocell for use with CR7P option (347V)[9]	159516	15° Tilt Pole Quick Mount Bracket - Square Pole[10]	688003CLR
PC480 Photocell for use with CR7P option (480V)[9]	1225180	15° Tilt Pole Quick Mount Bracket - 4-5' Round Pole[11]	689905CLR
ALSC UNV TL5 - Airlink 5Pin Twist Lock Controller[4,9]	661409	BKS XBO WM * CLR Wall Mount Bracket[10]	382132CLR
ALSC UNV TL7 - Airlink 7Pin Twist Lock Controller[4,9]	661410	BKA-XMA-XALM-CLR	652761
PMOS24 - 24V Pole-Mount Occupancy Sensor (ALSC/H Compatible)[10]	663284CLR	FK120 Single Fusing (120V)	FK120[12]
IMS/PC Remote Configurator Tool	584929	FK277 Single Fusing (277V)	FK277[12]
IL - Integral Louver HSS	684812	DFK480 Double Fusing (480V)	DFK480[12]
Universal Mounting Bracket (UMB)[10]	684616CLR	FK347 Single Fusing (347V)	FK347[12]
Adjustable Slip Fitter (ASF)[10]	688138CLR		

FOOTNOTES:

1 - Not available on "Type 5W" distribution.
2 - Consult Factory for availability.
3 - Only available in 9L and 12L Lumen Packages
4 - Not available in HV.
5 - Consult Factory for Site Layout
6 - IMS is field adjustable, via a hand held Remote Configurator Tool, which must be ordered separately. See Accessory Ordering Information.
7 - Control device must be ordered separately. 7 pin standard. See Accessory Ordering Information.
8 - Accessories are shipped seperately and field installed.
9 - Factory installed CR7P option required. See Options.
10 - "CLR" denotes finish. See Finish options.
11 - Not available in UNV.
12 - Fusing must be located in hand hole of pole.

Accessories/Options

Integral Louver (IL)

Accessory Integral Louver available for improved back-light control without sacrificing street side performance. LSI's Integral Louver (IL) option delivers backlight control that significantly reduces light spill behind the pole for applications with pole locations close to adjacent properties. The integrated louvers' design maximizes forward-reflected light while reducing glare, maintaining the optical distribution selected, and most importantly, eliminating light trespass. IL rotates with optical distribution.

Luminaire Shown with Integral Louver (IL)

7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Fixture Shown with CR7P

Optics Rotation

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Stand-alone Controls: Occupancy Sensor (IMS)

The integral passive infrared motion sensor activates switching of luminaire light levels. Standard Factory settings: High level light is activated and increased to full bright upon detection of motion. Lowlight level (10% maximum drive current) is activated when target zone is absent of motion activity for ~5 minutes. See coverage diagram for detection cone.

The Remote Configurator Tool allows for easy and safe programming of each luminaire from ground level. See the Remote Configurator User Guide for programming instructions.

When ordering the Stand-alone Occupancy Sensor on the fixture, you must include IMS (see ordering guide for mounting height options) as the controls option in the fixture nomenclature.

To order as a motion sensor with the AirLink Wireless Control System, see ordering guide under "Wireless Controls System" and select the ALSCS controls option with the desired mounting height.

IMS Coverage Diagrams

Remote Configurator Tool

Luminaire Shown with IMS

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AirLink™
enabled by Synapse®

The AirLink enabled by Synapse Wireless Lighting Control System is the perfect solution for commercial, industrial and municipal applications, such as: auto dealerships, parking lots, garages, shopping complexes and warehouses.

AirLink utilizes robust wireless communication via 2.4 GHz Self-Healing Mesh Network which not only increases reliability and accuracy of system, but also eliminates single point of failure.

The flexibility of the system make it perfect for new construction and retrofit projects. The user-friendly AirLink web application is accessible through any device with an internet connection and allows for complete customization of the system's features.

Some capabilities of the system include: occupancy/vacancy sensing, daylight harvesting, scheduling, high-end trim, dimming, zone control, BMS integration and energy monitoring.

The AirLink System

Contact LSI Controls

Sales
controls.sales@lsi-industries.com

Support
controls.support@lsi-industries.com
1 (800) 436-7800 (support, option 8)

More information
For more information on AirLink, visit our website at **www.lsi-airlink.com**

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poles & Brackets

LSI offers a full line of poles and brackets to complete your lighting assembly. Our USA manufacturing facility has the same high quality standards for our poles and brackets as we do our lighting fixtures.

BKA UMB CLR

The 3G rated Universal Mounting Bracket (UMB) allows for seemless integration of LSI Luminaires onto existing or new construction poles. The UMB bracket was designed specifically for square or round (tapered/straight) poles with (2) mounting hole spaces between 3.5"-5".

BKA-XMA-XALM-CLR

The Mirada Slip Fitter is a aesthetically pleasing 3G rated die cast aluminum adapter. Designed specifically to mount the MRM onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon. The Mirada Slip Fitter allows for leveling via integrated steps to adjust the luminaire +/- 3 Degrees.

BKA ASF CLR

The adjustable Slip Fitter is a 3G rated rugged die cast aluminum adapter to mount LSI luminaires onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon. The Adjustable Slip Fitter can be rotated 180° allowing for tilting LSI luminaires up to 45° and 90° when using a vertical tenon.

BKS PQMH CLR

The Pole Quick Mount Bracket allows for lightning fast installation of LSI luminaires onto existing and new construction poles with LSI's 3" or 5"standard bolt patterns

BKS PQM15 CLR

The Pole Quick Mount Bracket allows for preset 15° uptilt of LSI luminaires for greater throw of light and increased vertical illumination aswell as fast installation onto poles with LSI's 3" or 5" bolt pattern.

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PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

No. PE10303015
STATE OF INDIANA
PROFESSIONAL ENGINEER
8/10/20

△1 OWN/STATE COMMENTS 08.10.20

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

TACO BELL
△1
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

SITE LIGHTING SPECS

E1.2

6/29/20

SITE LIGHT SPECIFICATIONS 1"=20'-0" **A**

J:\Taco Bell\190739_Drawings\190739_E1-2_R1.dwg, 8/7/2020 3:20:23 PM, AcroPlotTemp15432.pc3

NATIONAL ACCOUNTS: SWITCHGEAR

SUPPLY and INSTALL STANDARD PACKAGE

CORPORATE AND FRANCHISE DEVELOPMENT

YUM NATIONAL ACCOUNT AGREEMENT IS WITH SQUARE-D FOR ELECTRICAL SWITCHGEAR EQUIPMENT FOR COMPANY AND FRANCHISE DEVELOPMENT. CUTLER-HAMMER ELECTRICAL SWITCHGEAR EQUIPMENT IS AN APPROVED ALTERNATE MANUFACTURER FOR FRANCHISE DEVELOPMENT ONLY.

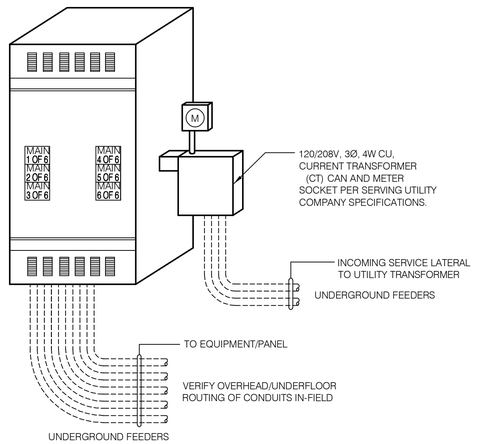
UNDER THIS AGREEMENT, THE CONTRACTOR IS RESPONSIBLE FOR PURCHASE AND INSTALLATION OF THE SYSTEMS DESCRIBED IN THE PLANS. ALL COMPANY AND FRANCHISE PROJECTS SHALL CONTACT ACCUSERV FOR A PRICE QUOTE AND A BILL OF MATERIAL CONFIRMATION FOR THEIR SPECIFIC PROJECT. SEE THE SWITCHGEAR SECTION IN THE SCOPE OF WORK FOR ADDITIONAL INFORMATION.

PRIMARY CONTACT: BUDDY BOCKWEG
PHONE: (877) 707-7378
FAX: (502) 961-0357
EMAIL: buddy@accuserv.com

THE SWITCHGEAR PACKAGE CONSISTS OF SERVICE ENTRANCE, SWITCHGEAR, MAIN PANELS, SUB PANELS, LIGHTING CONTACTORS AND ALL ASSOCIATED PRODUCTS TO COMPLIMENT THE SWITCHGEAR PACKAGE.

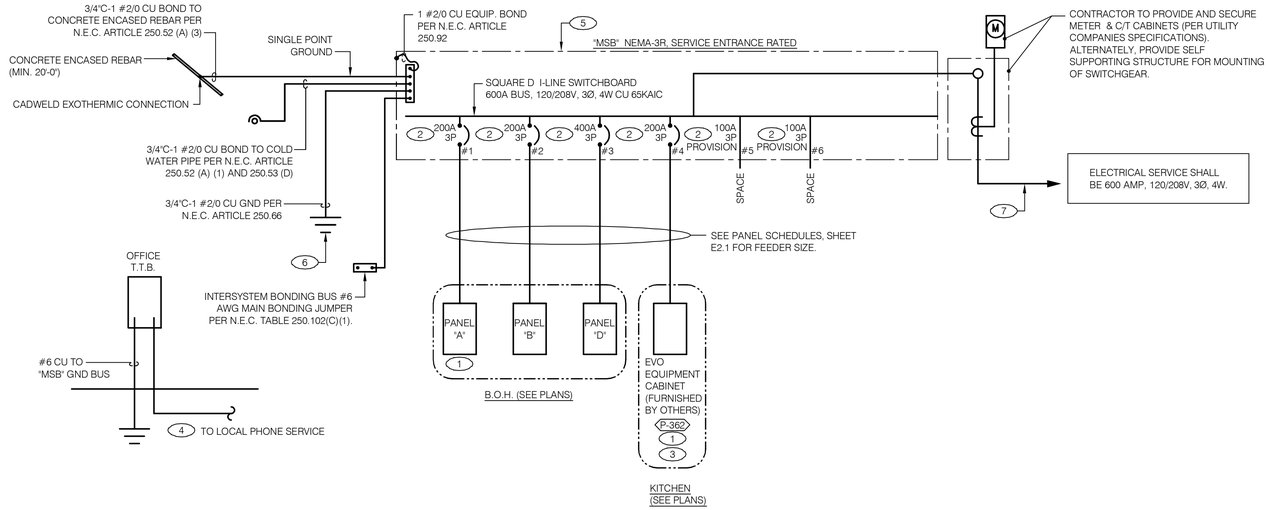
BE PREPARED AT TIME OF ORDER OR QUOTE REQUEST TO PROVIDE ALL PROJECT DETAILS REGARDING SPECIFICATIONS AND QUANTITIES AS SITE SPECIFIC DESIGN MAY NOT MATCH PROTOTYPICAL DESIGN.

NOTE: THE SITE-ADAPT CONSULTANT IS RESPONSIBLE FOR DETERMINING IF THE SITE-SPECIFIC SWITCHGEAR PACKAGE FALLS WITHIN A JURISDICTION THAT REQUIRES EUSERC-COMPLIANT METERING EQUIPMENT.



NOTE: CONFIRM DIMENSIONS WITH SUPPLIER

SERVICE ENTRANCE EQUIPMENT ELEVATION - NON-EUSERC PACKAGE | E



SINGLE LINE DIAGRAM | A

FIRE ALARM NOTE

AS REQUIRED, IT SHALL BE THE GENERAL CONTRACTORS RESPONSIBILITY TO ENGAGE THE SERVICES OF AN APPROVED FIRE ALARM CONTRACTOR. THE FIRE ALARM CONTRACTOR SHALL BE REQUIRED TO PROVIDE DRAWINGS, SPECIFICATIONS & INSTALLATION ACCORDING TO MUNICIPALITIES GUIDELINES. FIRE ALARM SERVICE MAY ALSO INCLUDE PROVIDING FIRE ALARM MONITORING TO BUILDING'S INSTALLED FIRE ALARM CONTROL SYSTEM. FIRE ALARM CONTRACTOR TO PROVIDE COMPATIBLE DEVICES & ALL BRACING, WIRING, ETC. COORDINATE WITH SPRINKLER CONTRACTOR FOR DETAILS.

	2X4 LIGHT FIXTURE	NL	NIGHT LIGHT
	2X4 LIGHT FIXTURE WITH BATTERY PACK	S	CEILING MOUNTED SPEAKER
	1X4 LIGHT FIXTURE	S	WALL MOUNTED SPEAKER
	1X4 LIGHT FIXTURE WITH BATTERY PACK	J	JUNCTION BOX
	DOWNLIGHT FIXTURE		WALL MOUNTED JUNCTION BOX
	SUSPENDED DOWNLIGHT FIXTURE		TELEPHONE OUTLET
	PENDANT MOUNTED LIGHT FIXTURE		DEDICATED GROUNDED OUTLET
	TRACK MOUNTED PENDANT LIGHT FIXTURE		DUPLEX GROUNDED OUTLET
	DIRECTIONAL FIXTURE, TRACK MOUNTED		DOUBLE DUPLEX GROUNDED OUTLET
	DIRECTIONAL FIXTURE, TRACK MOUNTED TO UNDERSIDE OF INTERIOR CANOPY		GROUND FAULT DUPLEX OUTLET
	COOLER FIXTURE		FLUSH MOUNTED CEILING GROUND FAULT DUPLEX OUTLET
	EXIT SIGN (WALL MOUNTED)		GROUND FAULT DUPLEX W/ BOTTOM. HALF SWITCHED
	EXIT SIGN (CEILING MOUNTED)		CEILING DUPLEX OUTLET
	SECURITY STROBE		FLUSH MOUNTED CEILING DUPLEX ISOLATED GROUND OUTLET
			DUPLEX ISOLATED GROUND OUTLET
			DOUBLE DUPLEX ISOLATED GROUND OUTLET
			SINGLE ISOLATED GROUND
			SPECIAL PURPOSE OUTLET
			CEILING SPECIAL PURPOSE OUTLET
			ELECTRICAL PANEL. SEE SHEET E2.1 FOR PANEL SCHEDULE.
			HOLD UP EMERGENCY BUTTON
			ELECTRICAL MOTOR
		SD	DUCT MOUNTED SMOKE DETECTOR
		C	CONNECTION TO EQUIPMENT
		A-XX	BRANCH CIRCUIT HOMERUN TO PANEL
			DISCONNECT SWITCH SEE NOTE FOR TYPE)
		PC	PHOTOCELL
		RS	RAIN SENSOR
			WALL MOUNT LIGHT FIXTURE
			EMERGENCY LIGHT
			SINGLE POLE, SINGLE THROW TOGGLE SWITCH
		$P	SINGLE POLE, SINGLE THROW TOGGLE SWITCH W/ PILOT LIGHT
			DIMMER SWITCH WITH SEPARATE MANUAL ON/OFF
		R	RELAY
			CONDUIT RUN, UNDERGROUND
			SMOKE DETECTOR
			EXTERIOR WALL FIXTURE
			EXTERIOR DECORATIVE WALL FIXTURE
			EXTERIOR DECORATIVE WALL FIXTURE
		WPG	WEATHERPROOF GROUND FAULT

ELECTRICAL LEGEND | D

1. INSTALLED TENANT SWITCHBOARD A.I.C. RATINGS SHALL EXCEED THAT OF THE CALCULATED FAULT-CURRENT PROVIDED BY THE SERVING UTILITY COMPANY. ALL BRANCH DEVICES CONNECTED DOWNSTREAM OF MSB SHALL BE U.L. LISTED AND APPROVED TO SERIES RATE WITH ALL COMPONENTS OF THIS ELECTRICAL SYSTEM
2. SEE SCOPE OF WORK FOR DETAILS REGARDING OWNER SUPPLIED AND/OR INSTALLED PRODUCTS. CONTRACTOR IS RESPONSIBLE FOR ALL OTHER ASPECTS OF THE PROJECT.
3. IF UTILITY COMPANY PROPOSES A SERVICE DIFFERENT FROM THAT ILLUSTRATED. CONTACT THE CONSTRUCTION ENGINEER FOR A DECISION BEFORE PROCEEDING. COORDINATE AVAILABLE SHORT CIRCUIT CURRENT W/ LOCAL UTILITY AND PROVIDE CIRCUIT BREAKERS W/ SUFFICIENT INTERRUPTING CAPACITY.
4. ALL WIRING SHOWN AS COPPER TYPE "THH/THWN" FEEDERS FROM UTILITY TRANSFORMER TO MSB AND TO INTERIOR PANELS MAY BE ALUMINUM IF ALLOWED BY AHJ. ADJUST FEEDER SIZES AS NECESSARY.
5. ARMOR CABLE ACCEPTABLE FOR ALL APPLICATIONS WHERE ALLOWED BY LOCAL CODES AS DELINEATED BY N.E.C. 330.10. ALL CONDUIT MUST BE CONCEALED U.N.O.
6. PROVIDE SERVICE EQUIPMENT LABELS PER N.E.C. 110.24(A). (B). 110.16.
7. ALL CONTRACTORS PRIOR TO BID SUBMISSION PROCESS SHALL VISIT PROPOSED WORK SITE AND FIELD VERIFY ALL EXISTING CONDITIONS. ANY CONDITION THAT DIFFERES FROM THAT SHOWN ON THESE PLANS SHALL BE REPORTED TO THE TENANT'S ARCHITECT/ENGINEER SO THAT NEW AND REVISED BID DRAWINGS OR INFORMATION MAY BE ISSUED. MODIFICATIONS TO THE SCOPE OF WORK WHICH RESULTS FROM THE CONTRACTORS NEGLECT TO VISIT THE SITE PRIOR TO SUBMITTING BID, SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY.
8. REFER TO SHEET E2.1 FOR PANEL SCHEDULES.

GENERAL NOTES | C

1. WIRE ISOLATED GROUND TO ISOLATION GROUND BUS IN PANEL AND LAND ISOLATED GROUND TO SINGLE POINT GROUND. "DO NOT COMBINE COMMON GROUND TO ISOLATED GROUND".
2. 6 BUILDING MAIN DISCONNECT FOR THIS SERVICE:
   MAXIMUM 6 MAINS PER N.E.C. ARTICLE: SERVICES 230.71 (SEE PANEL SCHEDULE, E2.1 FOR RATINGS)
   LABEL EACH MAIN BREAKER AS INDICATED: (ENGRAVED LETTERS x 3/4" HIGH)
   "PANEL A"
   "PANEL B"
   "PANEL D"
   "PANEL EVO-LINE"
   "SPACE"
   "SPACE"
3. EQUIPMENT CABINET IS FURNISHED WITH EVO LINE.
4. PROVIDE 2" CONDUIT STUBBED INTO BUILDING FROM LATERAL POLE OR PEDESTAL FOR TELEPHONE.
5. VERIFY AVAILABLE FAULT CURRENT AT SERVICE ENTRANCE WITH THE UTILITY CO. AND CONFIRM 65 kAIC RATED EQUIPMENT IS SUFFICIENT.
6. (3) 5/8" DIAMETER. x 10'-0" COPPER CLAD GROUND RODS. INSTALL 10'-0" APART AND CONNECT GROUND SYSTEM PER N.E.C. ARTICLE 250.
7. ESTABLISH NEW ACCOUNT ON BEHALF OF CLIENT. INSTALL UNDERGROUND SERVICE LATERAL TO UTILITY TRANSFORMER PER SERVING UTILITY COMPANY SPECIFICATIONS. 4#350KCMIL (CU) IN EACH OF (2) 3"C. TO PAD MOUNT TRANSFORMER. GENERAL/ELECTRICAL CONTRACTOR SHALL COORDINATE SERVICE EQUIPMENT PER LOCAL UTILITY CODE.

(X) KEY NOTES | B

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1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

REGISTERED PROFESSIONAL ENGINEER
No. PE10303015
STATE OF INDIANA
8/10/20

1	OWN/STATE COMMENTS 08.10.20
2	
3	
4	
5	

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

1 TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

RISER DIAGRAM AND LEGEND

E2.0

6/29/20

PANEL **MSB** — NEW INSTALL **X** — FED TOP
VOLTAGE **120/208** **3** PHASE **4** WIRE — EXIST LOCATION — FED BOTTOM **X**
AMP BUS **600** — RELOCATED EXIST — MTD FLUSH
AMP MAIN **600** **M.L.O.** — A.I.C. RATING **65 kAIC** — SURFACE **X**

CKT #	DESCRIPTION	WATTS	LOAD TYPE	WIRE SIZE	BRKR SIZE	POLE	A	B	C	POLE	BRKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION	CKT #
1	PANEL A	4820	*	4#3/0, 2#6 CU BOND/ISO GND IN 2"C	200	3	20724			3	200	4#3/0, 1#6 CU BOND IN 2"C	*	15904	PANEL B	2
	-	4850	*	-	-	-		19775		-	-	-	*	14925	-	
	-	4930	*	-	-	-			19790	-	-	-	*	14860	-	
3	PANEL EVO EQUIPMENT (P-362)	14978	*	4#3/0, 2#6 CU BOND/ISO GND IN 2"C	200	3	31671			3	400	4#500 KCMIL,1#3 CU BOND IN 3-1/2"C	*	16693	PANEL D	4
	-	14612	*	-	-	-		31547			-	-	*	16935	-	
	-	15274	*	-	-	-			32640	-	-	-	*	17366	-	
5	3-POLE, 100A PROVISION		-	-	-	3	0			3	-	-	-		3-POLE, 100A PROVISION	6
			-	-	-	-		0				-	-			
			-	-	-	-			0			-	-			

52395 | 51322 | 52430 = 156147 CONNECTED WATTS
2.1% BALANCE

L= LIGHTING/SIGNS	8963	125% =	11204	
R= RECEPTACLES	4460	100% =	4460	
M= MISC	11958	100% =	11958	
H= HVAC	36558	100% =	36558	
K= KITCHEN	94208	65% =	61235	
LARGEST MOTOR	9936	25% =	2484	

DEMAND WATTS 127899 = 355.3 DEMAND AMPS

1 PROVIDE SEPARATE GROUND CONDUCTOR IN ALL CONDUITS
2 PROVIDE BREAKER LOCK DEVICE.
3 PROVIDE HACR TYPE CIRCUIT BREAKER.

PANEL **A** — NEW INSTALL **X** — FED TOP
VOLTAGE **120/208** **3** PHASE **4** WIRE — EXIST LOCATION — FED BOTTOM **X**
AMP BUS **200** — RELOCATED EXIST — MTD FLUSH **X**
AMP MAIN **200** **M.L.O W/ISOLATED GROUND BUS** — A.I.C. RATING **65/10 kAIC** — SURFACE

NOTE	CKT #	DESCRIPTION	WATTS	LOAD TYPE	WIRE SIZE	BRKR SIZE	POLE	A	B	C	POLE	BRKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION	CKT #	NOTE
1	1	TBCC FAN CONTROL PANEL	500	M	2#12,1#12G IN 3/4"C	20	1	500			1	20	-	-	-	SPARE	2	1
	3	SPARE	-	-	-	20	1		360		1	20	2#12,1#12G/IG IN 3/4"C	M	360	CCTV DVR/MON. (U-054)	4	3
	5	WATER HEATER CONTROL (B-223)	600	M	2#12,1#12G IN 3/4"C	20	1			850	1	20	2#12,1#12G IN 3/4"C	M	250	TELEPHONE SERVICE BOX	6	1
	7	IRRIGATION TIMER	360	M	2#12,1#12G IN 3/4"C	20	1	720			1	20	2#12,1#12G IN 3/4"C	M	360	SAFE (F-174 SAFE)	8	3
3	9	MUSIC SYSTEM (F-131)	200	M	2#12,1#12G/IG IN 3/4"C	20	1		740		1	20	2#12,1#12G/IG IN 3/4"C	M	540	POS/ORD ENTRY/U-070 (U-100)	10	3
	11	SPARE	-	-	-	20	1			600	1	20	2#12,1#12G IN 3/4"C	M	600	HOOD FIRE SUPPRESSION (E-107)	12	1
	13	ROOF/EXTERIOR RECEPTACLES	720	R	2#12,1#12G IN 3/4"C	20	1	900			1	20	SEE SITE PLAN	R	180	REC. @ MONUMENT SIGN	14	
3	15	F-050/U-061/PRINTER/CC	360	M	2#12,1#12G/IG IN 3/4"C	20	1		600		1	20	2#12,1#12G/IG IN 3/4"C	M	240	D/T - BASE ST./COM. SYS. (U-011)	16	3
	17	HUB TABLE RECEPTACLES	540	R	2#12,1#12G IN 3/4"C	20	1			1080	1	20	2#12,1#12G IN 3/4"C	R	540	OFFICE RECEPTACLES	18	
	19	UTILITY RECEPTACLES	360	R	2#12,1#12G IN 3/4"C	20	1	720			1	20	2#12,1#12G IN 3/4"C	R	360	UTILITY RECEPTACLES	20	
3	21	HUB TABLE KIOSK	360	M	2#12,1#12G/IG IN 3/4"C	20	1		720		1	20	2#12,1#12G/IG IN 3/4"C	M	360	KITCHEN MON - IG (U-238)	22	3
2	23	SHOW WINDOW RECEPTACLE	360	R	2#12,1#12G IN 3/4"C	20	1			540	1	20	2#12,1#12G IN 3/4"C	M	180	CO2 MONITOR (B-381)	24	1
2	25	SHOW WINDOW RECEPTACLE	360	R	2#12,1#12G IN 3/4"C	20	1	720			1	20	2#12,1#12G IN 3/4"C	M	360	SECURITY SYSTEM (U-063)	26	3
3	27	UTILITY REC/VSAT (F-050/U-061)	540	M	2#12,1#12G/IG IN 3/4"C	20	1		1260		1	20	2#12,1#12G/IG IN 3/4"C	M	720	INTERIOR MENUBOARDS (L-043)	28	3
	29	SPARE	-	-	-	20	1			960	1	20	2#12,1#12G IN 3/4"C	M	960	MONEY COUNTER (F-102)	30	1
2	31	SHOW WINDOW RECEPTACLE	540	R	2#12,1#12G IN 3/4"C	20	1	540			1	20	-	-	-	SPARE	32	
3	33	OFFICE COMPUTER (F-040)	200	M	2#12,1#12G/IG IN 3/4"C	20	1		450		1	20	2#12,1#12G/IG IN 3/4"C	M	250	D/T TIMING SYSTEM (S-204)	34	3
3	35	DIGITAL MENU/SPEAKER POST	400	M	2#12,1#12G/IG IN 3/4"C	20	1			400	1	20	-	-	-	SPARE	36	
3	37	OFC.-VIDEO TRAINING UNIT(F-090&F-080)	720	M	2#12,1#12G IN 3/4"C	20	1	720			1	20	-	-	-	SPARE	38	
	39	SPARE	-	-	-	20	1		720		1	20	2#12,1#12G/IG IN 3/4"C	M	720	POS (2) & UPS (2) (U-100)(F-090)	40	3
	41	SPARE	-	-	-	20	1			500	1	20	2#12,1#12G IN 3/4"C	R	500	TECH IN A BOX	42	3

4820 | 4850 | 4930 = 14600 CONNECTED WATTS
PHASE DIFF. 47 | 17 | -63
2.2% BALANCE

L= LIGHTING/SIGNS	0	125% =	0
R= RECEPTACLES	4460	100% =	4460
M= MISC	10140	100% =	10140
H= HVAC	0	100% =	0
K= KITCHEN	0	65% =	0
LARGEST MOTOR	0	25% =	0

DEMAND WATTS 14600 = 40.56 DEMAND AMPS

1 PROVIDE LOCK-ON BREAKER.
2 CIRCUITS TO BE ROUTED THRU TBCCB CONTROL. REFER TO E6.X DRAWINGS FOR INFORMATION.
3 PROVIDE G.F.C.I. DEVICE IN PANEL.
4 PROVIDE LOCKOUT/TAGOUT CIRCUIT BREAKER DEVICE.

PANEL **B** — NEW INSTALL **X** — FED TOP
VOLTAGE **120/208** **3** PHASE **4** WIRE — EXIST LOCATION — FED BOTTOM **X**
AMP BUS **200** — RELOCATED EXIST — MTD FLUSH **X**
AMP MAIN **200** **M.L.O** — A.I.C. RATING **65/10 kAIC** — SURFACE

NOTE	CKT #	DESCRIPTION	WATTS	LOAD TYPE	WIRE SIZE	BRKR SIZE	POLE	A	B	C	POLE	BRKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION	CKT #	NOTE
2	1	DÉCOR LTG/COLOR CHANGING LTG	194	L	2#12,1#12G IN 3/4"C	20	1	1394			1	20	2#12,1#12G IN 3/4"C	L	1200	EXTERIOR BUILDING SIGNAGE	2	2
1,2	3	KITCHEN/BOH/RR LTG	728	L	2#12,1#12G IN 3/4"C	20	1		1134		1	20	2#12,1#12G IN 3/4"C	L	406	DINING RM. LIGHTS	4	1,2
	5	COOLER/FRZR LIGHTS	800	L	2#12,1#12G IN 3/4"C	20	1			2000	1	20	2#12,1#12G IN 3/4"C	L	1200	EXTERIOR BUILDING SIGNAGE	6	2
	7	~~EXTERIOR BUILDING LTG~~	~~281~~	~~L~~	~~2#12,1#12G IN 3/4"C~~	~~20~~	~~1~~	1481			1	20	SEE SITE PLAN	L	1200	PYLON/MONUMENT SIGN	8	2,3
	9	SPARE	-	-	-	20	1		0		1	20	-	-	-	SPARE	10	
1	~~11~~	~~REMOTE ALARM LT~~	~~360~~	~~L~~	~~2#12,1#12G IN 3/4"C~~	~~20~~	~~1~~			860	1	20	2#10,1#10G IN 1"C	L	500	DT CANOPY	12	2,3
	13	SPARE	-	-	-	20	1	375			2	20	SEE SITE PLAN	L	375	PARKING LOT LIGHTING	14	2,3
2	15	EXTERIOR BUILDING SIGNAGE	1200	L	2#12,1#12G IN 3/4"C	20	1		1575		-	-	-	L	375	-	16	
2	17	EXTERIOR BUILDING CANOPY (DT)	144	L	2#12,1#12G IN 3/4"C	20	1			312	1	20	2#12,1#12G IN 3/4"C	M	168	EMERG INVERTER "E3"	18	1
	19	EF-1	966	H	2#12,1#12G IN 3/4"C	20	1	966			1	20	-	-	-	SPARE	20	
	~~21~~	~~EF-2~~	~~528~~	~~H~~	~~2#12,1#12G IN 3/4"C~~	~~20~~	~~1~~		528		1	20	-	-	-	SPARE	22	
	23	RTU-1	4464	H	3#8,1#10G IN 1"C	50	3			4464	1	20	-	-	-	SPARE	24	
	25	-	4464	H	-	-	-	4464			1	20	-	-	-	SPARE	26	
	27	-	4464	H	-	-	-		4464		1	20	-		-	SPARE	28	
	29	RTU-2	7224	H	3#3,1#8G IN 1-1/2"C	90	3			7224	1	20	-		-	SPARE	30	
	31	-	7224	H	-	-	-	7224			1	20	-	-	-	SPARE	32	
	33	-	7224	H	-	-	-		7224		-	-				BLANK	34	
	~~35~~	~~BLANK~~	-	-	-	-	-			0	-	-				BLANK	36	
	37	BLANK	-	-	-	-	-	0			-	-				BLANK	38	
	39	BLANK	-	-	-	-	-		0		-	-				BLANK	40	
	41	BLANK	-	-	-	-	-			0	-	-				BLANK	42	

15904 | 14925 | 14860 = 45689 CONNECTED WATTS
PHASE DIFF. -674 | 305 | 370
6.6% BALANCE

L= LIGHTING/SIGNS	8963	125% =	11204
R= RECEPTACLES	0	100% =	0
M= MISC	168	100% =	168
H= HVAC	36558	100% =	36558
K= KITCHEN	0	65% =	0
LARGEST MOTOR	9936	25% =	2484

DEMAND WATTS 50414 = 140 DEMAND AMPS

1 PROVIDE LOCK-ON BREAKER.
2 CIRCUITS TO BE ROUTED THRU TBCCB CONTROL. REFER TO E6.X DRAWINGS FOR INFORMATION.
3 FOR PARKING LOT LIGHTS AND OUTSIDE SIGNS: PROVIDE (8) 3/4" C FROM PANEL "B" AND STUB OUT 10'-0" AWAY FROM THE BUILDING. VERIFY EXACT LOCATION OF STUB PRIOR TO ROUGH-IN. LOADS MAY VARY WITH LOCATION. VERIFY OUTDOOR VOLTAGE DROP FOR ALL PARKING LIGHTING CIRCUITS.

PANEL **D** — NEW INSTALL **X** — FED TOP
VOLTAGE **120/208** **3** PHASE **4** WIRE — EXIST LOCATION — FED BOTTOM **X**
AMP BUS **400** — RELOCATED EXIST — MTD FLUSH **X**
AMP MAIN **400** **M.L.O** — A.I.C. RATING **65/10 kAIC** — SURFACE

NOTE	CKT #	DESCRIPTION	WATTS	LOAD TYPE	WIRE SIZE	BRKR SIZE	POLE	A	B	C	POLE	BRKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION	CKT #	NOTE
	1	WALK-IN COOLER (W-059)	972	K	3#12,1#12G IN 3/4"C	20	3	3012			2	30	2#10,1#10G IN 3/4"C	K	2040	HOT WATER DISP. (P-452)	2	
	3	-	972	K	-	-	-		3012		-	-	-	K	2040	-	4	
	5	-	972	K	-	-	-			3012	2	30	2#10,1#10G IN 3/4"C	K	2040	HOT WATER DISP. (P-452)	6	
	7	WALK-IN FREEZER (W-059)	1044	K	3#12,1#12G IN 3/4"C	20	3	3084			-	-	-	K	2040	-	8	
	9	-	1044	K	-	-	-		2059		1	15	2#12,1#12G IN 3/4"C	K	1015	ICE MAKER S/S & D/T (2) - (S-513-1)	10	
	11	-	1044	K	-	-	-			2644	2	20	2#12,1#12G IN 3/4"C	K	1600	ICE MACH. COND. (S-513-2)	12	
	13	BUNN BREWER (S-547)	1425	K	2#12,1#12G IN 3/4"C	20	1	3025			-	-	-	K	1600	-	14	
	15	HEATED CABINET (S-027)	1920	K	2#12,1#12G IN 3/4"C	20	1		3520		2	20	2#12,1#12G IN 3/4"C	K	1600	ICE MACH. COND. (S-513-2)	16	
	17	DT CARBONATOR (S-570)	828	K	2#12,1#12G IN 3/4"C	20	1			2428	-	-	-	K	1600	-	18	
1	19	POWER SOAK (N-043)	1186	K	2#12,1#12G IN 3/4"C	15	2	1750			1	20	2#12,1#12G IN 3/4"C	K	564	BOOSTER TNK (S-540)	20	
	21		1186	K	-	-	-		4306		2	30	2#10,1#10G IN 3/4"C	K	3120	FROZEN BEV. DISP. (S-739)	22	4
	23	BEVERAGE DISP. SS (S-284)	1116	K	2#12,1#12G IN 3/4"C	20	1			4236	-	-	-	K	3120	-	24	
1	25	WATER FILTER SYSTEM (S-286)	400	M	2#12,1#12G IN 3/4"C	20	1	630			1	20	2#12,1#12G IN 3/4"C	K	230	RETHERMALIZER (C-107)	26	
	27	FREEZER (R-207)	828	K	2#12,1#12G IN 3/4"C	20	1		828		1	-	-	-	-	SHUNT TRIP BREAKER	28	
	29	BEVERAGE DISP. D/T (S-285)	1296	K	2#12,1#12G IN 3/4"C	20	1			2546	2	15	2#12,1#12G IN 3/4"C	K	1250	FROZEN BEV. COND. (S-740)	30	
	31	HEATED CABINET (S-026)	1920	K	2#12,1#12G IN 3/4"C	20	1	3170			-	-	-	K	1250	-	32	
	33	ICE TEA EQP. (S-546)	1780	K	2#12,1#12G IN 3/4"C	20	1		1960		1	20	2#12,1#12G IN 3/4"C	K	180	(2) TIMERS (C-400 & P-417)	34	
2,3	35	HEAT TRACE	1000	M	2#12,1#12G IN 3/4"C	20	1			1000	1	-	-	-	-	SHUNT TRIP BREAKER	36	
	37	SS CARBONATOR (S-570)	828	K	2#12,1#12G IN 3/4"C	20	1	1599			1	20	2#12,1#12G IN 3/4"C	K	771	DUAL VAT FRYER (C-026)	38	
	39	SPARE	-	-	-	20	1		0		1	-	-	-	-	SHUNT TRIP BREAKER	40	
	41	SPARE	-	-	-	20	1			250	1	20	2#12,1#12G IN 3/4"C	M	250	HOOD EXHAUST CONTROL	42	1

16270 | 15685 | 16116 = 48071 CONNECTED WATTS
PHASE DIFF. -246 | 339 | -92
3.6% BALANCE

L= LIGHTING/SIGNS	0	125% =	0
R= RECEPTACLES	0	100% =	0
M= MISC	1650	100% =	1650
H= HVAC	0	100% =	0
K= KITCHEN	46421	65% =	30174
LARGEST MOTOR	3132	25% =	783

DEMAND WATTS 32607 = 90.57 DEMAND AMPS

1 PROVIDE LOCK-ON BREAKER.
2 PROVIDE EQUIPMENT GROUND FAULT PROTECTION PER C.E.C. ARTICLE 427.22.
3 PROVIDE LOCKOUT/TAGOUT CIRCUIT BREAKER DEVICE.
4 PROVIDE G.F.C.I. DEVICE IN PANEL.

PANEL **EVO EQUIPMENT** — NEW INSTALL **X** — FED TOP **X**
VOLTAGE **120/208** **3** PHASE **4** WIRE — EXIST LOCATION — FED BOTTOM
AMP BUS **200** — RELOCATED EXIST — MTD FLUSH **X**
AMP MAIN **200** **M.L.O W/ISOLATED GROUND BUS** — A.I.C. RATING **65/10 kAIC** — SURFACE

NOTE	CKT #	DESCRIPTION	WATTS	LOAD TYPE	WIRE SIZE	BRKR SIZE	POLE	A	B	C	POLE	BRKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION	CKT #	NOTE
	1	HOT FOOD TABLE	1560	K	*	20	2	3120			2	20	*	K	1560	HOT FOOD TABLE	2	
	3	-	1560	K	*	-	-		3120		-	-	*	K	1560	-	4	
2	5	CLAM SHELL GRILL (C-204)	2300	K	*	30	1			3380	1	15	*	K	1080	SCALES/ DESSERT TOWER	6	2
2	7	CLAM SHELL GRILL (C-204)	2300	K	*	30	1	4220			1	20	*	K	1920	REFRIGERATED BASE	8	2
	9	CHEESE MELTER (C-254)	1650	K	*	20	2		2898		2	15	*	K	1248	AIR SCREEN	10	
	11	-	1650	K	*	-	-			2898	-	-	*	K	1248	-	12	
2	13	MONITOR	1500	K	*	20	1	3300			1	15	*	K	1800	EQUIPMENT RECEPTACLE	14	1
	15	AIR SCREEN	1248	K	*	15	2		2898		2	20	*	K	1650	CHEESE MELTER (C-254)	16	
	17	-	1248	K	*	-	-			2898	-	-	*	K	1650	-	18	
2	19	SAUCE DISPENSER W/TIMERS	1440	K	*	15	1	2688			2	15	*	K	1248	AIR SCREEN	20	
	21	TORTILLA WARMER	1550	K	*	20	2		2798		-	-	*	K	1248	-	22	
	23	-	1550	K	*	-	-			3200	2	20	*	K	1650	CHEESE MELTER (C-254)	24	
	25	BLANK	-	-	-	-	1	1650			-	-	*	K	1650	-	26	
	27	AIR SCREEN	1248	K	-	15	2		2898		2	20	*	K	1650	CHEESE MELTER (C-254)	28	
	29	-	1248	K	-	-	-			2898	-	-	*	K	1650	-	30	

14978 | 14612 | 15274 = 44864 CONNECTED WATTS
PHASE DIFF. -23 | 343 | -319
4.3% BALANCE

L= LIGHTING/SIGNS	0	125% =	0
R= RECEPTACLES	0	100% =	0
M= MISC	0	100% =	0
H= HVAC	0	100% =	0
K= KITCHEN	44864	65% =	29162
LARGEST MOTOR	0	25% =	0

DEMAND WATTS 29162 = 81 DEMAND AMPS

1 PROVIDE FULLY RATED BREAKER.
2 PROVIDE G.F.C.I. DEVICE IN PANEL
* PRE-WIRED PANEL PROVIDED WITH PRODUCTION COUNTER. MAKE CONNECTIONS PER MANUFACTURER'S RECOMMENDATION.
3 SEE NOTE #1, DETAIL B, SHEET E2.0.

1 PANEL SCHEDULES — A

NOT USED — E

NOT USED — D

1. LIGHTING CIRCUITS SHALL BE WIRED THRU LIGHTING CONTROL. REFER TO DETAILS ON SHEET E6.X DRAWINGS.
2. PROVIDE PANELS WITH ISOLATED GROUND BUS, AS INDICATED. REFER TO DETAIL "F", SHEET E3.1 FOR ISOLATED GROUND BRANCH CIRCUITS.
3. PROVIDE CIRCUIT DIRECTORY, CIRCUIT IDENTIFICATION AND SOURCE OF SUPPLY PER N.E.C. 408.4(A), (B).
4. PROVIDE CIRCUIT BREAKER INDICATION FOR EMERGENCY LIGHTING CIRCUITS PER N.E.C. 700.1.
5. SEE DETAIL "G", SHEET E7.0 FOR SHUNT-TRIP DETAIL.

GENERAL NOTES — C

1. REFER TO DETAIL C, SHEET E7.0 AND CIVIL SHEETS FOR FURTHER INFORMATION ON EXTERIOR POWER REQUIREMENTS.

X KEY NOTES — B

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PE10303015 STATE OF INDIANA PROFESSIONAL ENGINEER 8/10/20

1 OWN/STATE COMMENTS 08.10.20

CONTRACT DATE: 8/26/19
BUILDING TYPE: EXP. LITE MED40
PLAN VERSION: MARCH 2018
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 314007
STORE NUMBER: TBD

TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

EXPLORER LITE
MEDIUM40

PANEL SCHEDULES AND LOAD SUMMARY

E2.1

6/29/20

COMMERCIAL KITCHEN EQUIPMENT SCHEDULE

EQUIPMENT IDENTIFICATION			EQUIPMENT ELECTRICAL CHARACTERISTICS									EQUIPMENT CIRCUIT			EQUIPMENT DISCONNECT								
										OCP		BRANCH CIRCUIT SIZE						LOCATION					
TAG	TYPE	EQUIPMENT NAME	PHASE	WIRES W/ GND	VOLTS	MAX HP	FLA / RLA	KW	MCA	TIME-DELAY FUSE	INVERSE-TIME BREAKER	SETS	BRANCH CIRCUIT	WIRE TYPE	CONDUIT TYPE	TYPE	SIZE	NEMA	EQUIPMT	REMOTE	PANEL BOARD	SUPPLIED BY	INSTALLED BY	NOTES
B-223	O	WATER HEATER IGNITION	1	3	120		4	0.48	4	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	MCCB	20					EC	EC	8
B-381	O	CO2 CARBON DIOXIDE SENSOR/WARNING	1	3	120		0.3	0.04	0.3	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
C-079	KR	DUAL FRYER W/ UNDER FRYER FILTER SYSTEM	1	3	120		8	0.96	8	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
C-107	O	RETHERMALIZER	1	3	115		2	0.23	2.5	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
C-197	KR	SPLIT LID CLAM SHELL TOASTER	1	3	120		15.8	1.896	20	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	
C-254	KR	CHEESE MELTER (SINGLE)	1	3	208		16	3.3	20	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	6-20				ES	ES	
C-400	O	COOK TIMER	1	3	120		3.5	0.42	4.4	15	15	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	15	5-15				ES	ES	2
E-107	O	STRATOVENT 6'-3" EXHAUST HOOD	1	3	120		9.8	1.18	12.3	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	-	20	5-20				ES	ES	8
E-272	O	HOOD FIRE SUPPRESSION SYSTEM	1	3	120		6.3	0.76	7.9	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	-	20	5-20				ES	ES	8
F-040	O	OFFICE COMPUTER	1	3	120		2.5	0.3	3.1	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
F-050	O	ALTERNATE PAYMENT ROUTER BOX	1	3	120																			
F-060	O	MONITOR-OFFICE	1	3	120					20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P						ES	ES	
F-080	O	OFFICE PRINTER/COPIER/FAX/SCANNER	1	3	120		2	0.24	2.5	15	15	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	15	5-15				ES	ES	2
F-090	O	UPS (UN-INTERRUPTABLE POWER SUPPLY)	1	3	120		4	0.48	5	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
F-102	O	MONEY COUNTER	1	3	120																			
F-131	O	MUSIC SYSTEM (MUZAK)	1	3	120		4.2	0.5	5.3	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	8
F-174	O	SAFE WITH TOUCH SCREEN CONTROLS	1	3	120		3	0.36	3.8	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
L-043	O	INTERIOR MENU BOARD PACKAGE	1	3	120		9	1.08	11.3	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
N-043	O	3-COMP POWER SOAK 102"L x 31"D (R TO L)	1	3	208		11.4	2.372	14.25	15	15	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	15	6-15				ES	ES	2
P-362B	KR	DUAL LINE, 157" READY TO ACCEPT EVO CABINETS	3	4	208		-	45	-	200	200	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	MCCB	200	-						
P-417	O	8-CHANNEL TIMER	1	3	120		0.5	0.06	0.625	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	-	20	5-20						
P-452	KR	HOT WATER DISPENSER	1	3	208		19.5	4.08	24.4	30	30	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	30	6-30				ES	ES	2
R-209	KM	FULL HT FREEZER	1	3	115		7.2	0.828	9	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-15				ES	ES	2
S-023	KM	WARMER, EVO TACO TOWER, TB,208V,L TO R UNIT	1	3	208		24	2.496																
S-024	KM	WARMER, EVO TACO TOWER, TB,208V,R TO L UNIT	1	3	208		24	2.496																
S-026	KR	HEATED CABINET-FULL HEIGHT (RH)	1	3	120		16	1.92	20	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
S-027	KR	HEATED CABINET-FULL HEIGHT (LH)	1	3	120		16	1.92	20	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
S-065	KR	DESSERT TOWER	1	3	120		6.8	0.82	-	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-15				ES	ES	2
S-204	O	DT/TIMING SYSTEM	1	3	120		7.2	0.86	9	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
S-284	KM	BEVERAGE DISPENSER - SELF SERVE	1	3	120		9.3	1.116	11.6	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
S-285	KM	BEVERAGE DISPENSER - DRIVE THRU	1	3	120		10.8	1.296	12.8	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
S-286	O	WATER FILTER SYSTEM	1	3	120		2	0.24	2.5	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	-	20	5-20				ES	ES	2
S-489	KR	DIGITAL SCALE																						
S-513-1	KM	ICE MAKER S/S & DT (2)	1	3	120		2.3	0.26	2.9	15	15	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	15	5-15				ES	ES	2
S-513-2	KM	ICE MAKER CONDENSER	1	3	208		13.2	2.61	16.5	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	F	20	5-20				ES	ES	5,8
S-204	O	ORDER CONFIRMATION BOARD/SWITCHBOX	1	3	120		1.1	0.13	1.4	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
S-540	KM	PEPSI BOOSTER TANK/CO2 MONITOR	1	3	120		4.7	0.54	5.9	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
S-546	O	ICED TEA BREWER	1	3	120		14.8	1.78	18.5	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
S-547	O	BUNN POD BREWER	1	3	120		11.9	1.43	14.9	15	15	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	15	5-15				ES	ES	2
S-739	KM	FROZEN BEVERAGE DISPENSER, REMOTE	1	3	208		24	5	30	30	30	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	30	6-30				ES	ES	2
S-740	KM	FROZEN BEVERAGE CONDENSER, REMOTE	1	3	208		12	2.5	15	15	15	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	F	15	-				ES	ES	5,8
U-011	O	BASE STATION - D/T COMMUNICATION SYSTEM	1	3	120		2	0.24	2	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
F-504	O	CCTV DVR & MONITOR	1	3	120		5	0.6	5	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	15	5-15				ES	ES	2
U-061	O	CREDIT CARD READER (VSTAT)	1	3	120		2	0.24	2.5	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
U-063	O	SECURITY SYSTEM	1	3	120		2.5	0.3	2.5	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
U-070	O	RECEIPT PRINTER	1	3	120		2	0.24	2	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
U-100	O	POS/ORDER ENTRY	1	3	120		3	0.36	3	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20							
U-238	O	KITCHEN MONITOR	1	3	120		5	0.6	5	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	C&P	20	5-20				ES	ES	2
W-059-1	KM	WALK-IN COOLER	3	4	208		14.2	4.86	17.8	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	-	20	15-20				ES	ES	8
W-059-2	KM	WALK-IN FREEZER	3	4	208		11.6	3.96	14.5	20	20	1	SEE PANEL SCHEDULES, SHEET E2.1	CU	ST	-	30	15-20				ES	ES	8

TYPE: H-HEATING, C-COOLING, R-KITCHEN RESISTIVE, KM-KITCHEN MOTOR, WH-WATER HEATER, OM-OTHER MOTORS, O-OTHER
DISCONNECT TYPE: HP-HP RATED SWITCH, C&P-CORD & PLUG, LC & P-LOCKING CORD & PLUG, F-FUSED, NF-NON-FUSED, MCCB-MOLDED CASE CIRCUIT BREAKER. SUPPLIED/INSTALLED BY: EC-ELECTRICAL CONTRACTOR, HC-HVAC CONTRACTOR, PC-PLUMBING CONTRACTOR, ES-EQUIPMENT SUPPLIER

NOTES:

1. REQUIRES SHUNT TRIP PROTECTION
2. CORD & PLUG SUPPLIED AND INSTALLED BY ES. EC SHALL PROVIDE RECEPTACLE.
3. CORD & PLUG SUPPLIED AND INSTALLED BY ES. RECEPTACLE SUPPLIED BY ES AND INSTALLED BY EC.
4. CORD, PLUG, & RECEPTACLE SUPPLIED AND INSTALLED BY EC.
5. SINGLE PHASE, THREE WIRE EQUIPMENT. PROVIDE PHASE CONDUCTORS AND GROUND.
6. THREE PHASE, FOUR WIRE EQUIPMENT. PROVIDE NEUTRAL CONDUCTOR AND GROUND.
7. OUTLETS SUPPLIED AND INSTALLED BY ES. CONDUIT & WIRING PROVIDED BY EC.
8. HARD WIRED CONNECTION BY E.C.

BRANCH CIRCUIT WIRING SCHEDULE

TO BE USED FOR BRANCH CIRCUIT WIRING UNLESS NOTED OTHERWISE

OC RATING	POLES	CONDUCTOR AND CONDUIT SIZE					
		HOT		NEUTRAL		GROUND	CONDUIT
		NO.	AWG	NO.	AWG	AWG	
15A	1	1	12	1	12	12	3/4"
	2	2	12	-	-	12	3/4"
	3	3	12	-	-	12	3/4"
20A	1	1	12	1	12	12	3/4"
	2	2	12	-	-	12	3/4"
	3	3	12	-	-	12	3/4"
25A	1	1	10	1	10	10	3/4"
	2	2	10	-	-	10	3/4"
	3	3	10	-	-	10	3/4"
30A	1	1	10	1	8	10	3/4"
	2	2	10	-	-	10	3/4"
	3	3	10	-	-	10	3/4"
35A	1	1	8	1	8	10	3/4"
	2	2	8	-	-	10	3/4"
	3	3	8	-	-	10	3/4"
40A	1	1	8	1	8	10	3/4"
	2	2	8	-	-	10	3/4"
	3	3	8	-	-	10	3/4"
45A	1	1	8	1	8	10	3/4"
	2	2	8	-	-	10	3/4"
	3	3	8	-	-	10	3/4"
50A	1	1	8	1	6	10	3/4"
	2	2	8	-	-	10	3/4"
	3	3	8	-	-	10	3/4"
60A	1	1	6	1	6	10	1"
	2	2	6	-	-	10	1"
	3	3	6	-	-	10	1"

NOTES:
1. THE ABOVE SCHEDULE IS BASED ON COPPER, 75 DEGREE CONDUCTORS

VOLTAGE DROP SCHEDULE

120V BRANCH CIRCUITS: MAXIMUM CIRCUIT LENGTH; 3% MAX VOLTAGE DROP

BRANCH CIRCUIT WATTAGE	WIRE GAUGE					
	#12	#10	#8	#6	#4	#3
3840	N/A	N/A	69	110	174	220
3500	N/A	N/A	76	120	191	242
3250	N/A	N/A	82	130	206	--
3000	N/A	N/A	88	140	223	--
2880	N/A	58	92	146	233	--
2500	N/A	66	106	169	268	--
2250	N/A	74	118	187	298	--
1920	54	87	138	220	--	--
1800	58	92	148	234	--	--
1500	70	111	177	281	--	--
1200	87	139	221	--	--	--
1000	105	167	266	--	--	--
700	150	238	--	--	--	--

VOLTAGE DROP SCHEDULE

208V/1Ø BRANCH CIRCUITS: MAXIMUM CIRCUIT LENGTH; 3% MAX VOLTAGE DROP

BRANCH CIRCUIT WATTAGE	WIRE GAUGE					
	#12	#10	#8	#6	#4	#3
8320	N/A	N/A	96	152	241	--
7488	N/A	N/A	106	169	269	--
6656	N/A	N/A	120	190	302	--
5764	N/A	N/A	138	220	--	--
4992	N/A	100	160	253	--	--
4160	N/A	120	192	304	--	--
3328	94	150	240	--	--	--
2080	151	251	--	--	--	--
1456	216	--	--	--	--	--

VOLTAGE DROP SCHEDULE

208V/3Ø BRANCH CIRCUITS: MAXIMUM CIRCUIT LENGTH; 3% MAX VOLTAGE DROP

BRANCH CIRCUIT WATTAGE	WIRE GAUGE					
	#12	#10	#8	#6	#4	#3
14411	N/A	N/A	111	176	280	--
11528	N/A	N/A	138	220	--	--
9727	N/A	N/A	164	260	--	--
8646	N/A	116	185	292	--	--
7205	N/A	139	222	--	--	--
5764	109	174	277	--	--	--
4323	146	232	--	--	--	--
3602	175	279	--	--	--	--
2882	219	--	--	--	--	--

VOLTAGE DROP NOTES:
1. THE CONDUCTORS FOR FEEDER AND BRANCH CIRCUITS COMBINED SHALL BE SIZED FOR A MAXIMUM OF (5) PERCENT VOLTAGE DROP TOTAL.
2. THE VOLTAGE DROP OF THE SERVICE FEEDERS SHALL NOT EXCEED (2) PERCENT. (CONTRACTOR TO VERIFY FEEDER LENGTH IN FIELD, UPSIZE FEEDER CONDUCTOR SIZE AS NEEDED, KEEP VOLTAGE DROP BELOW (2) PERCENT.)
3. THE VOLTAGE DROP OF ANY BRANCH CIRCUIT SHALL NOT EXCEED (3) PERCENT.
4. CONTRACTOR TO DETERMINE THE LENGTH OF RUN AND THE CONNECTED LOAD FOR EACH BRANCH CIRCUIT. USING THE VOLTAGE DROP SCHEDULES IN THIS DETAIL, THE CONTRACTOR SHALL DETERMINE THE SIZE OF THE BRANCH CIRCUIT CONDUCTOR IS ADEQUATE FOR A VOLTAGE DROP LESS THAN THE MAXIMUM (3) PERCENT. CONTRACTOR TO UP-SIZE THE BRANCH CIRCUIT CONDUCTORS AS NEEDED TO ADJUST FOR VOLTAGE DROP.

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REGISTERED ARCHITECT STATE OF INDIANA No. PE10303015 PROFESSIONAL ENGINEER 8/10/20

1 OWN/STATE COMMENTS 08.10.20

CONTRACT DATE: 8/26/19
BUILDING TYPE: EXP. LITE MED40
PLAN VERSION: MARCH 2018
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 314007
STORE NUMBER: TBD

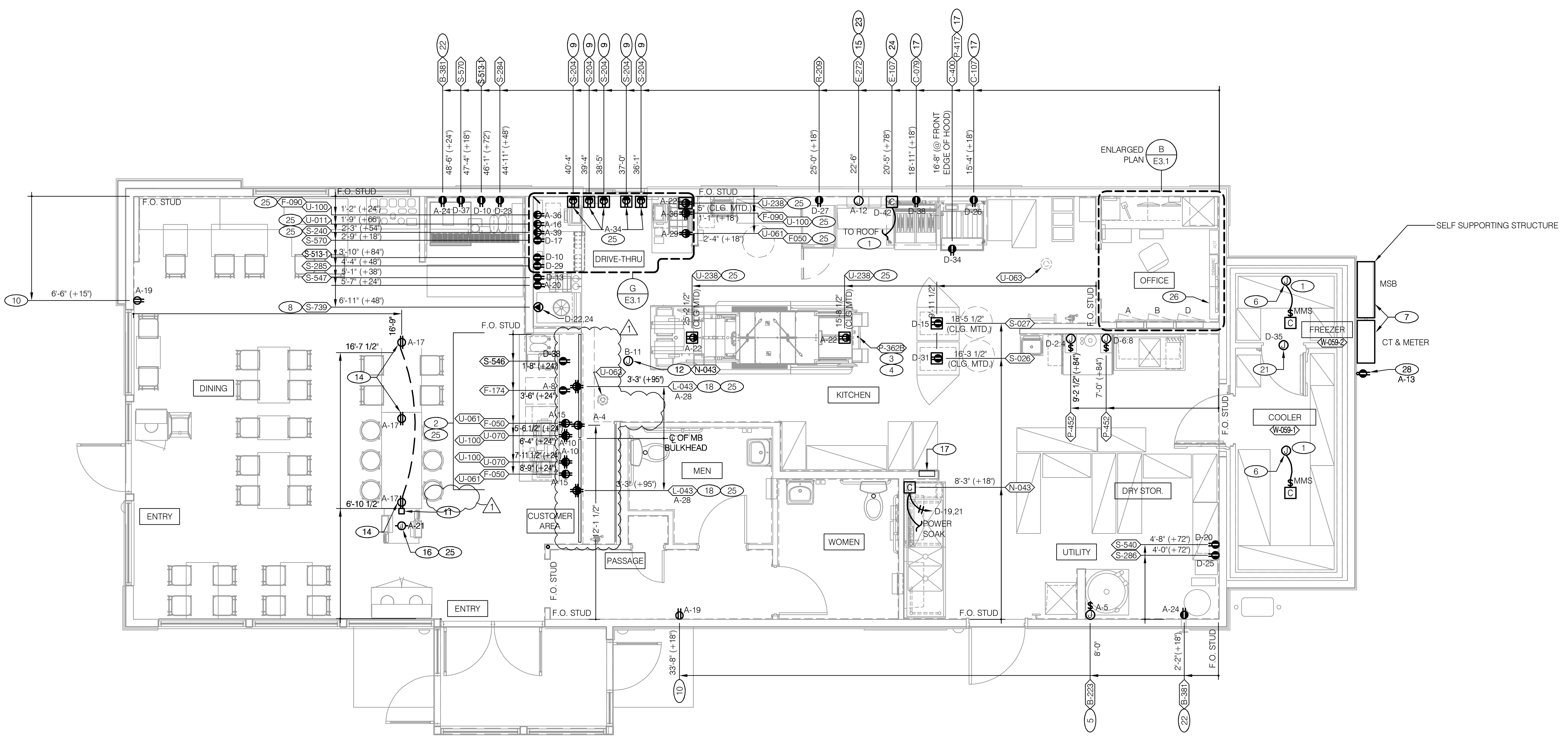
1 TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

ELECTRICAL SCHEDULES

E2.2

6/29/20



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

POWER PLAN GENERAL NOTES E

A. ALL DIMENSIONS TO J-BOXES ARE FROM FACE OF STUD TO CENTER OF BOX, U.O.N.

B. ALL CONDUIT DROPS ARE INSIDE WALLS U.O.N. SEE ARCH. DWGS FOR WALL DIMS.

C. ALL J-BOX CIRCUITS, CONDUITS, FIXTURES, ETC. SHALL BE AS INDICATED ON THE ELECTRICAL DRAWINGS AND SPECIFICATIONS.

D. CONTRACTOR SHALL VERIFY UNDERGROUND CONDUIT LOCATIONS PRIOR TO POURING SLAB.

E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THIS DATA ON THE LOCATION OF ELECT. ROUGH-INS WITH INFO PROVIDED ON THE ARCH. AND STRUCT. DWGS AND THE EQUIPMENT ACTUALLY SUPPLIED, AND TO CONFIRM THE CORRECTNESS OF ANY DIMENSIONS HEREIN.

F. LOCATIONS OF ALL OUTLETS MAY BE RELOCATED TO NEAREST STUD. DO NOT CUT INTO STUDS.

G. FOR EXACT LOCATIONS OF KITCHEN & MECHANICAL EQUIPMENT AND POINTS OF CONNECTION, REFER TO KITCHEN & MECHANICAL EQUIPMENT DRAWINGS AND MANUFACTURER'S SHOP DRAWINGS.

H. ALL CIRCUIT FEEDERS AND DISCONNECTS SHALL BE SIZED BY N.E.C..

I. CONTRACTOR SHALL VERIFY CIRCUIT BREAKER, DISCONNECT SWITCH, STARTER AND FUSE SIZES WITH SELECTED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS PRIOR TO PLACING ORDER AND PROVIDE EVERYTHING AS REQUIRED.

J. ELECTRICAL EQUIPMENT ENCLOSURES SHALL BE NEMA-1 FOR INTERIOR AND NEMA 3R FOR EXTERIOR. IN COASTAL REGIONS THE STANDARD FOR OUTSIDE SHALL BE NEMA-4X.

K. PER SECTION 210.8(B)(3) N.E.C., ALL 15 AND 20A, 120V RECEPTACLES IN COMMERCIAL KITCHENS ARE REQUIRED TO BE GFCI PROTECTED. THIS INCLUDES ISOLATED GROUND RECEPTACLES.

L. DO NOT MEASURE/LOCATE OUTLETS ON DRAWINGS. USE DIMENSIONS PROVIDED.

M. CONDUIT MAY RUN UNDER SLAB AT CONTRACTORS DISCRETION.

N. E.C. SHALL PROVIDE A PREPRINTED SELF-ADHESIVE LABEL ON ALL POS RECEPTACLES STATING "POS USE ONLY".

O. PROVIDE ESCUTCHEON PLATES AND SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, CEILING, AND FLOORS. DO NOT USE CAULKS OR EXPANSION FOAM FOR SEALANT.

P. EMT SHALL BE USED FOR ALL WIREWAYS. ARMOR CABLE IS ALLOWED ONLY WHERE WIREWAYS ARE EASILY ACCESSIBLE. FOR EXAMPLE: EMT INSIDE WALLS AND ABOVE HARD GYPSUM BOARD CEILINGS AND ARMOR CABLE ABOVE SUSPENDED CEILING SYSTEMS.

Q. ARMOR CABLE (BX) ALLOWED WHERE ACCEPTABLE BY CODE. ALL WIRE SHALL BE CONCEALED U.O.N.

R. ALL OUTLETS IN PUBLIC AREAS SHALL BE LISTED AS "TAMPER-RESISTANT".

S. G.F.C.I. DEVICES MUST BE INSTALLED IN ACCORDANCE WITH N.E.C. 240.24. ALTERNATIVELY A GFCI CONTROLLED BRANCH BREAKER CAN BE INSTALLED.

T. ALL CONDUITS SHALL BE INSTALLED PER N.E.C. 430.102 & 300.7.

U. ALL RECEPTACLES AND COVERPLATES SHALL MATCH DECOR.

V. ALL OUTLETS SHALL BE FLUSH MOUNTED AT 15" A.F.F. TO THE CENTER OF OUTLET UNLESS NOTED OTHERWISE.

W. 5mA GFCI BREAKERS MUST BE USED WHERE OUTLETS REQUIREING GFCI PROTECTION ARE NOT ACCESSIBLE FOR COMPLIANCE WITH N.E.C. 210.8. WHERE GFCI PROTECTION AND SHUNT TRIP BREAKERS ARE REQUIRED, A DEAD-FRONT GFCI DEVICE MUST BE USED.

KEY NOTES B

1. REFER TO ROOF PLAN.
2. INSTALL SURFACE MOUNTED IN CONDUIT RUNNING ON KITCHEN SIDE OF CABINETRY REAR WALL.
3. CONNECT "DRY PRODUCTION EVO LINE" CIRCUIT BREAKER PANEL VIA UTILITY CHASE IN CEILING TO CIRCUIT BREAKER IN MAIN DISTRIBUTION PANEL (MSB) (REFER TO SHEET E2.0). VERIFY ALL REQUIREMENTS WITH ACTUAL EQUIPMENT SPECIFIED. THE MANUFACTURER WILL FULLY PRE-WIRE THE COMPLETE DRY PRODUCT LINE AT THE FACTORY. THE UNITS WILL THEN BE PULLED APART FOR SHIPPING PURPOSES. ALL CONNECTION POINTS WILL BE MARKED. THE CIRCUITING RUNS WILL BE COILED UP FOR FIELD INSTALLATION. SOME ELECTRICAL COMPONENTS MAY BE REMOVED FOR EASE OF DISASSEMBLING THE LINE-UP. THE ELECTRICAL CONTRACTOR WILL BE FULLY RESPONSIBLE FOR MAKING THE PROPER FIELD CONNECTIONS FROM THE ROUGH-IN LOCATION TO THE MANUFACTURER PROVIDED BREAKER PANEL BOX. IN ADDITION, THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ANY SPLICE POINTS AND/OR JUNCTION BOXES THAT NEED TO BE RECONNECTED. SOME ELECTRICAL COMPONENT ASSEMBLY MAY ALSO BE REQUIRED.
4. BUILT-IN BRANCH ELECTRIC PANEL 'EVO' MOUNTED WITHIN EVO PRODUCTION LINE.
5. TANK-TYPE WATER HEATER. COORDINATE CONNECTION TYPE WITH EQUIPMENT ORDERED. MOUNT JUNCTION BOX ADJACENT TO UNIT AND PER N.E.C. REQUIREMENTS.
6. INSTALL CONTROL CABLE FROM FREEZER/COOLER FAN COIL TO ROOF MOUNTED CONDENSOR.
7. LOCATE SWITCHGEAR PER GUIDELINES ON SHEET A4.1 AND DETAIL "A", SHEET E2.0.
8. PROVIDE BOOST TRANSFORMER (208V, 1-PHASE IN, 240V, 1-PHASE OUT) FOR FROZEN BEVERAGE DISPENSER.
9. FOR WALL MOUNTED HME. SEE G/E3.1
10. PROVIDE DUPLEX RECEPTACLE WITH TWO (2) USB CHARGING PORTS.
11. ELECTRICAL CHASE FOR PROPOSED HUB TABLE (VERIFY FINISH/COLOR REQUIREMENTS OF ELECTRICAL CHASE WITH OWNER PRIOR TO ORDERING). CONTRACTOR TO PROVIDE/INSTALL ELECTRICAL CHASE IN APPROXIMATE LOCATION SHOWN (FIELD VERIFY EXACT MOUNTING LOCATION IN FIELD, CHASE SHALL BE SECURED AT BOTH ENDS). PROVIDE JUNCTION BOX ABOVE CEILING FOR ROUTING CONDUIT/CONDUCTORS DOWN INSIDE ELECTRICAL CHASE TO PROVIDE POWER TO RECEPTACLES INSTALLED IN HUB TABLE (SEE KEYED NOTE #7 FOR ADDITIONAL INFORMATION). FIELD VERIFY ROUTING CONDUIT/CONDUCTORS TO DEVICES INSTALLED IN HUB TABLE. CONDUIT/CONDUCTORS SHALL BE SECURED TO THE TABLE AND CONCEALED FROM VIEW TO THE GREATEST EXTENT POSSIBLE COORDINATE, ROUTING WITH HUB TABLE PROVIDER/INSTALLER. NECESSARY DEVICES AND MAKE ALL FINAL CONNECTIONS.
12. PROVIDE J-BOX ABOVE CEILING FOR POWER SOAK INDICATOR LIGHT.
13. NOT USED. (1)
14. E.C. SHALL PROVIDE, INSTALL AND WIRE A DUPLEX RECEPTACLE WITH (2) USB POWER PORTS IN SINGLE-GANG BOX PROVIDED WITH TABLE, AT EACH END OF THE TABLE. PROVIDE GALVANIZED COVER PLATE TO MATCH BOX.
15. SEE DETAIL G, SHEET E7.0 FOR MOUNTING INFORMATION.
16. PROPOSED KIOSK TOWER. PROVIDE JUNCTION BOX ABOVE CEILING FOR ROUTING CONDUIT/CONDUCTORS DOWN INSIDE KIOSK TOWER TOP POST AND PROVIDE A QUAD I.G RECEPTACLES & (1) I.G. DUPLEX RECEPTACLE MOUNTED BELOW TABLE (VERIFY EXACT MOUNTING LOCATION IN FIELD.) VERIFY ALL ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUPPLIER(S), PROVIDE ALL NECESSARY DEVICES AND MAKE ALL FINAL CONNECTIONS. POWER AND DATA SHALL BE ROUTED IN SEPARATE CONDUITS. CONTRACTOR TO CIRCUIT AS SHOWN. PROVIDE CAT6 (2 CAT6 CABLES PER TABLET) FROM TERMINATION BOX (IN TOWER) TO COMMUNICATION HUB.
17. CONTRACTOR TO FIELD-VERIFY THE EXACT NUMBER OF RECEPTACLES REQUIRED TO BE SHUNT-TRIP CONTROLLED (UNDER A TYPE-1 FIRE SUPPRESSED HOOD). PROVIDE A FLUSH MOUNTED, GANGED OUTLET BOX AT 48" A.F.F. WITH THE APPROPRIATE NUMBER OF SPACES FOR EQUIPMENT TO BE SHUNTED. PROVIDE A 120-VOLT, 20-AMP, 1-POLE DEAD-FRONT GFCI DEVICE (ONE FOR EACH PIECE OF EQUIPMENT) MOUNTED IN BOX. DE-RATE DEVICES, IN BOX AS REQUIRED BY THE N.E.C.. PROVIDE SHUNT-TRIP CONTROL, IN PANEL AS INDICATED ON PANEL SCHEDULE. SEE DETAIL "A", SHEET E7.0.
18. ELECTRICIAN TO INSTALL A TOTAL OF (2)QUAD OUTLETS (IG5362) IN (2) QUAD BOXES ON FRONT OF VALANCE WALL AS SHOWN. OUTLETS TO BE STRAIGHT BLADE. OUTLETS TO BE ON AN ISOLATED/DEDICATED GROUNDED CIRCUIT THAT IS NOT CONNECTED TO ANY RESTAURANT POWER MANAGEMENT SYSTEM.
19. NOT USED.
20. NOT USED.
21. JUNCTION BOX FOR COOLER/FREEZER HEAT TRACE LOCATED IN UNIT.
22. OUTLET FOR CO2 MONITOR. INSTALL PER MANUFACTURE SPECIFICATIONS AND I.B.C..
23. ANSUL JUNCTION BOX, LOCATED ABOVE CEILING. SEE D/E7.0.
24. JUNCTION BOX (ABOVE ACCESSIBLE CEILING) FOR "FIELD" WIRING TO FAN SYSTEM CONTROL BOX, EXHAUST AND ROOM TEMPERATURE SENSORS, LIGHT AND FAN SWITCHES FURNISHED WITH HOOD SYSTEM CONTROL BOX. PROVIDE 115V POWER TO CONTROLLER. CONTROL BOX IS SUPPLIED WITH EXHAUST AND SUPPLY FAN TERMINATIONS. ROUTE FAN BRANCH CIRCUITS THRU HOOD CONTROLLER TO DISCONNECTS, MOUNTED TO FANS, ON ROOF. REFER TO HOOD DRAWINGS FOR CONTROL WIRING DIAGRAM AND ELECTRICAL CONTRACTOR RESPONSIBILITIES.
25. SEE DETAIL F, SHEET E3.1 FOR ISOLATED GROUND RECEPTACLE.
26. TBCCB CONTROL BOX (RELAY PANEL) SEE SHEET E6.X SERIES SHEETS FOR ADDITIONAL INFORMATION
27. NOT USED.
28. PROVIDE A NEMA 5-20R GFCI SURFACE MOUNTED TO INDEPENDENTLY SUPPORTED SWITCHGEAR STRUCTURE AT 24" A.F.F., WITH STEEL "IN-USE" COVER. (1)

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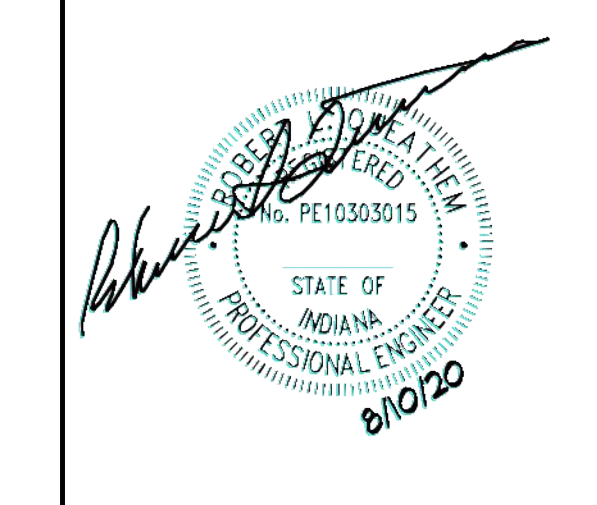

(1) OWN/STATE COMMENTS 08.10.20

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

POWER FLOOR PLAN

E3.0

6/29/20

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THE DEDICATED POS POWER CIRCUIT REQUIRES AN ISOLATED GROUND IN ADDITION TO THE NORMAL COMMON BUILDING GROUND. THE ISOLATED GROUND WIRE SERVES TWO PURPOSES:
* AS A SAFETY PATH TO GROUND.
* AS A ZERO REFERENCE POINT FOR ALL POS DIGITAL LOGIC.

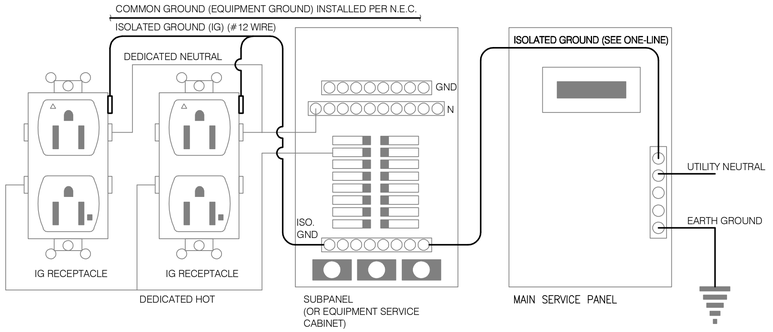
THE GROUND MUST EXHIBIT THE LOWEST POSSIBLE IMPEDANCE TO MINIMIZE VOLTAGE TRANSIENTS AND NOISE.

BE SURE TO:

* USE AN INSULATED CONDUCTOR FOR THE ISOLATED GROUND WIRE.
* RUN THE ISOLATED GROUND WIRE THROUGH THE SAME CONDUIT AS THE HOT AND NEUTRAL WIRES.
* INSTALL ONLY ISOLATED GROUND (IG) TYPE RECEPTACLES.
* CONNECT THE ISOLATED GROUND WIRE TO BUILDING GROUND ONLY AT THE MAIN SERVICE PANEL.
* VERIFY THAT IG RECEPTACLES PRE-WIRED IN OWNER SUPPLIED EQUIPMENT HAVE A TRUE ISOLATED GROUND THAT CAN BE TRACED BACK TO THE BUILDING GROUND AT THE MAIN SERVICE PANEL/SWITCH.

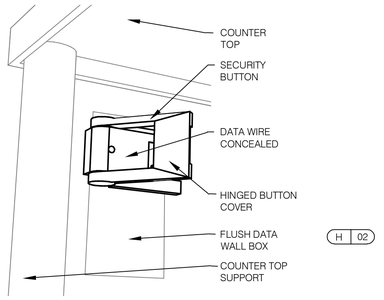
DO NOT CONNECT THE ISOLATED GROUND WIRE TO THE CONDUIT, JUNCTION BOXES, THE FRAME ON A SUBPANEL, OR ANY OTHER METAL SURFACE.

DEDICATED CIRCUITS: DEDICATED CIRCUITS REQUIRE A DEDICATED HOT AND A DEDICATED NEUTRAL THAT ARE NOT SHARED WITH ANY OTHER CIRCUITS. IG RECEPTACLES MUST BE "PHASE ALIGNED" WITH THE "B" PHASE OF SUBPANEL IN WHICH IT IS INSTALLED.

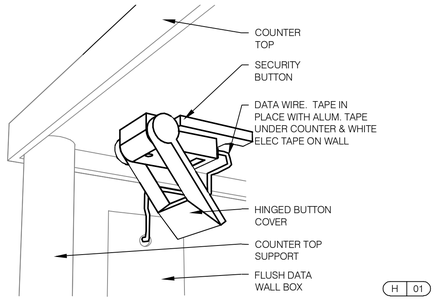


NOTE: USE GFCI BRANCH CIRCUIT BREAKERS FOR ISOLATED GROUND OUTLET CIRCUITS.

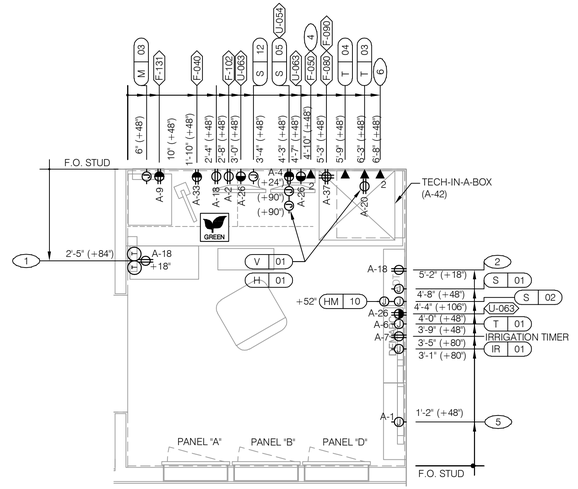
P.O.S. ISOLATED GROUND SYSTEM N.T.S. F



SECURITY BUTTON ON WALL N.T.S. C

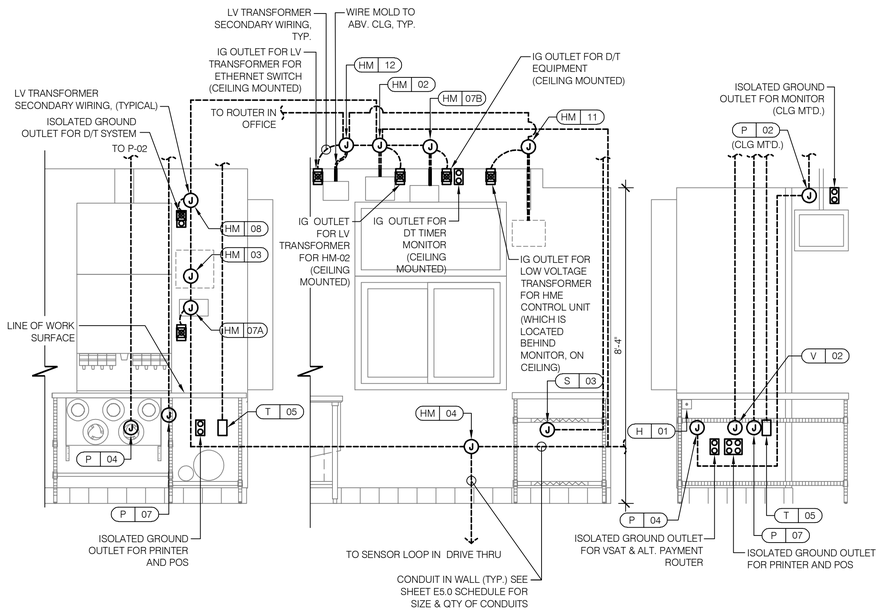


SECURITY BUTTON UNDER COUNTER N.T.S. D



REFER TO COMMUNICATIONS SCHEDULE ON SHEET E5.0 FOR EQUIPMENT DESCRIPTION/MOUNTING HEIGHTS.

ENLARGED POWER AND COMMUNICATIONS PLAN (OFFICE) 1/2" = 1'-0" B



REFER TO COMMUNICATIONS SCHEDULE ON SHEET E5.0 FOR EQUIPMENT DESCRIPTIONS/MOUNTING HEIGHTS.

DRIVE-THRU ELEVATION COMPONENT RELATION DETAIL 1/2" = 1'-0" G

NOT USED N.T.S. E

1. THERMOSTAT CONTROLS. COORDINATE WITH MECHANICAL SHEETS.
2. CONTROLLED RECEPTACLE (TBCCB OPTION). CIRCUIT THROUGH TBCCB CONTROL BOX (INSTALLED IN THE OFFICE) AND CONTROLLED VIA OCCUPANCY/VACANCY SENSOR, BUILT INTO FRONT OF THE CONTROL BOX. SEE E6X SERIES SHEETS FOR ADDITIONAL INFORMATION. RECEPTACLE SHALL BE PERMANENTLY MARKED, U.L. LISTED AND PROVIDE INDICATION OF CONTROLLED RECEPTACLE, FOR EACH REQUIRED RECEPTACLE.
3. NOT USED.
4. PHONE JACK FOR MODEM.
5. LOCATION OF TACO BELL COMBINED CONTROL BOX - TBCCB. CONTRACTOR TO VERIFY (IN THE FIELD). CONSIDER OPERATOR NEED TO ACCESS SWITCHES ON THE FRONT OF THE CONTROL BOX AND BUILT-IN OCCUPANCY SENSOR FOR MANAGER'S OFFICE.
6. DATA JACK FOR TECH-IN-A-BOX WITH 2 PORTS.

(X) KEY NOTES N.T.S. A

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REGISTERED ARCHITECT
No. PE10303015
STATE OF INDIANA
PROFESSIONAL ENGINEER
8/10/20

1 OWN/STATE COMMENTS 08.10.20

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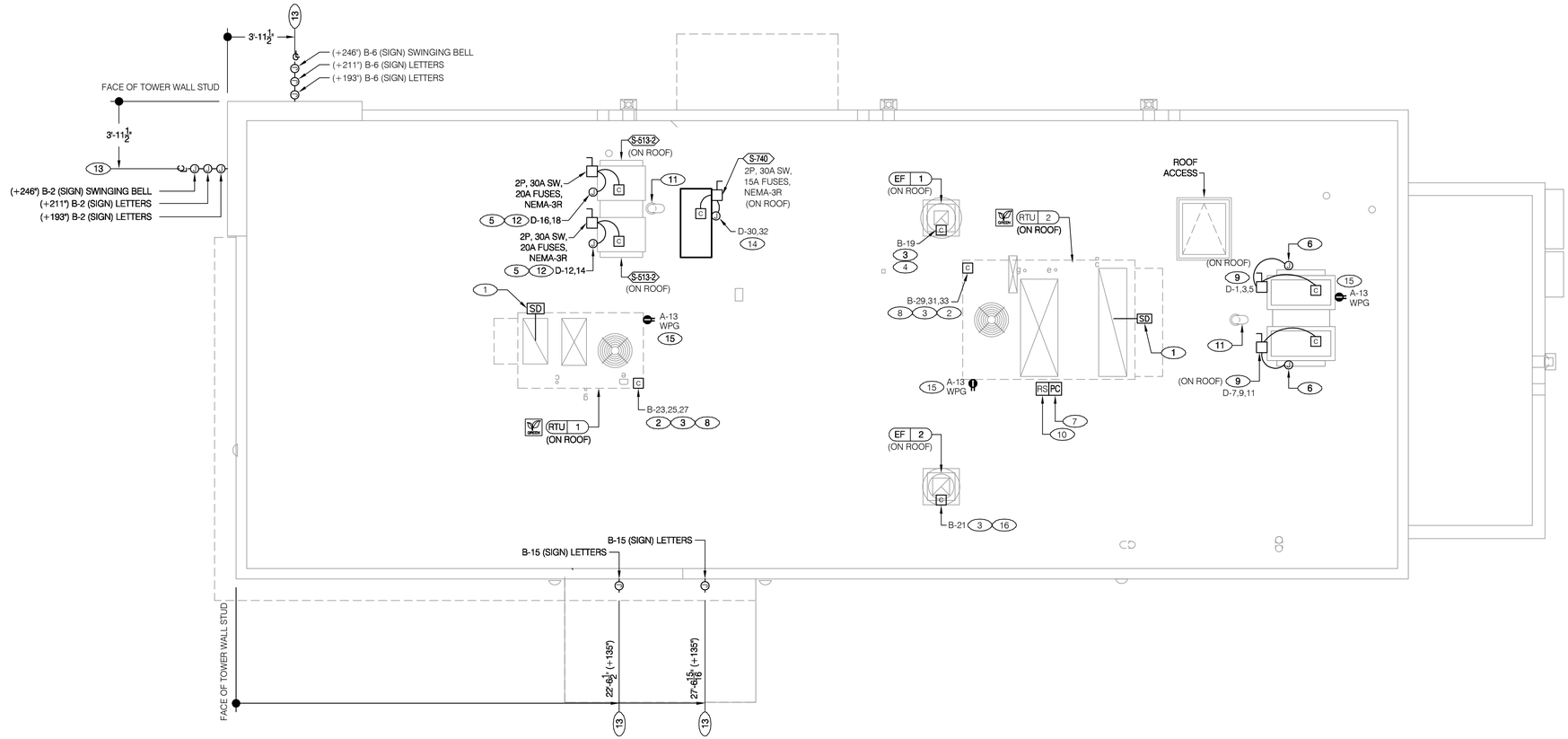
TACO BELL
EXPLORER LITE
MEDIUM40

ENLARGED POWER PLAN AND DETAILS

E3.1

6/29/20



S

POWER ROOF PLAN 1/4" = 1'-0" A

NOT USED E

NOT USED D

POWER ROOF PLAN NOTES C

A. NO CONDUIT SHALL BE FASTENED DIRECTLY TO OR THROUGH ROOFING MEMBRANE.

B. ALL CUTS IN ROOFING MEMBRANE SHALL BE MINIMAL AND IN ACCORDANCE WITH ROOFING MANUFACTURES AND INSTALLER'S REQUIREMENTS.

C. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT ELECTRICAL REQUIREMENTS.

D. ALL EXPOSED ELECTRICAL CONDUITS SHALL PENETRATE ROOF MEMBRANE AT PIPE HOODS U.O.N.

E. REFER TO MECHANICAL DRAWINGS, EQUIPMENT SCHEDULE AND ROUGH-IN PLANS FOR SPECIFICATIONS.

F. ALL CONDUITS FROM EXHAUST FANS SHALL BE ROUTED INSIDE OF CURB.

G. ALL CONDUITS TO AND FROM RTU SHALL BE ROUTED INSIDE OF RTU CURB. COORDINATE WITH RTU MFR RECOMMENDATIONS.

H. REFER TO GENERAL NOTES SHEET E2.0 FOR IMPORTANT INFORMATION.

I. ALL WIRING AND CONDUITS SHALL BE CONCEALED. NO CONDUITS PERMITTED TO RUN EXPOSED ACROSS ROOF DECK. ROUTE ALL CONDUITS THROUGH EQUIPMENT ROOF CURBS OR ARCHITECT SPECIFIED ROOF PENETRATIONS.

J. ALL OUTLETS AND J-BOXES BEHIND SIGNAGE SHALL BE WEATHER RESISTANT, RECESSED AND FLUSH WITH BUILDING FINISH SURFACE.

K. ARMOR CABLE (BX) ALLOWED WHERE ACCEPTABLE BY CODE.

(X) KEY NOTES B

1. PROVIDE CONNECTION FROM AIR DUCT SMOKE DETECTORS TO MECHANICAL CONTROL CIRCUIT SEE SHEET E6.0.
2. SPECIFIED RTU IS SUPPLIED WITH THRU THE BASE ELECTRICAL CONNECTIONS AND FACTORY INSTALLED HACR CIRCUIT BREAKER WITH WEATHER TIGHT ENCLOSURES AND ACCESS THRU SWINGING DOOR.
3. POWER AND CONTROL ENTRY FROM BOTTOM OF UNIT.
4. CONNECT TO EF-1 RELAY, IN TBCCB CONTROL BOX.
5. 1/2" C. WITH REQUIRED CONDUCTORS TO J-BOX IN CEILING ABOVE ICE MACHINE. MAKE CONNECTION TO ICE MACHINE AND CONDENSING UNIT.
6. REFER TO POWER PLAN FOR CONTINUATION TO COOLER / FREEZER.
7. MOUNT PHOTOCELL ON NORTH SIDE OF RTU-2. CONNECT TO TBCCB CONTROL PANEL.
8. RTU'S SHALL BE PROVIDED WITH BUILT-IN DISCONNECT AND SINGLE POINT WIRING.
9. CONTRACTOR SHALL VERIFY CIRCUIT BREAKER TYPE, STARTER, DISCONNECT SWITCH, AND FUSE SIZE (IF REQUIRED) WITH SELECTED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS PRIOR TO PLACING ORDER AND FURNISH AND INSTALL EVERYTHING AS REQUIRED.
10. PROVIDE AN ADDITIONAL EMPTY CONDUIT AND NEMA-3R JUNCTION BOX MOUNTED NEXT TO TIMECLOCK PHOTOCELL FOR IRRIGATION RAIN GUAGE. SECURELY MOUNT TO STRUCTURE. (GREEN)
11. PIPE HOOD. SEE DETAIL 6/A6.0 AND SHEET A3.0.
12. ELECTRICAL CONTRACTOR SHALL MAKE ALL ELECTRICAL CONNECTIONS INCLUDING ALL NECESSARY INTERCONNECTIONS BETWEEN THE COMPRESSOR ON THE ROOF & THE EVAPORATOR IN THE ICE MACHINE AS REQUIRED. REFER TO THE MANUFACTURER'S SHOP DRAWINGS FOR EXACT INSTALLATION AND INTERCONNECTION REQUIREMENTS, PRIOR TO ROUGH-IN INSTALL.
13. COORDINATE LOCATION OF J-BOX WITH SIGN VENDOR. SEE SCOPE OF WORK.
14. 1/2" C. WITH REQUIRED CONDUCTORS TO J-BOX IN CEILING ABOVE FROZEN BEVERAGE MACHINE. MAKE CONNECTION TO BEVERAGE MACHINE AND ASSOCIATED CONDENSING UNIT.
15. MOUNT TO UNIT IN A SURFACE MOUNTED NEMA 3R WEATHERTIGHT BOX WITH IN-USE COVER.
16. CONNECT TO EF-2 RELAY IN TBCCB CONTROL BOX. FOR CONTINUOUS OPERATION DURING OCCUPIED HOURS. SEE SHEET 6.0, FOR ADDITIONAL INFORMATION.

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TACO BELL
EXPLORER LITE
MEDIUM40

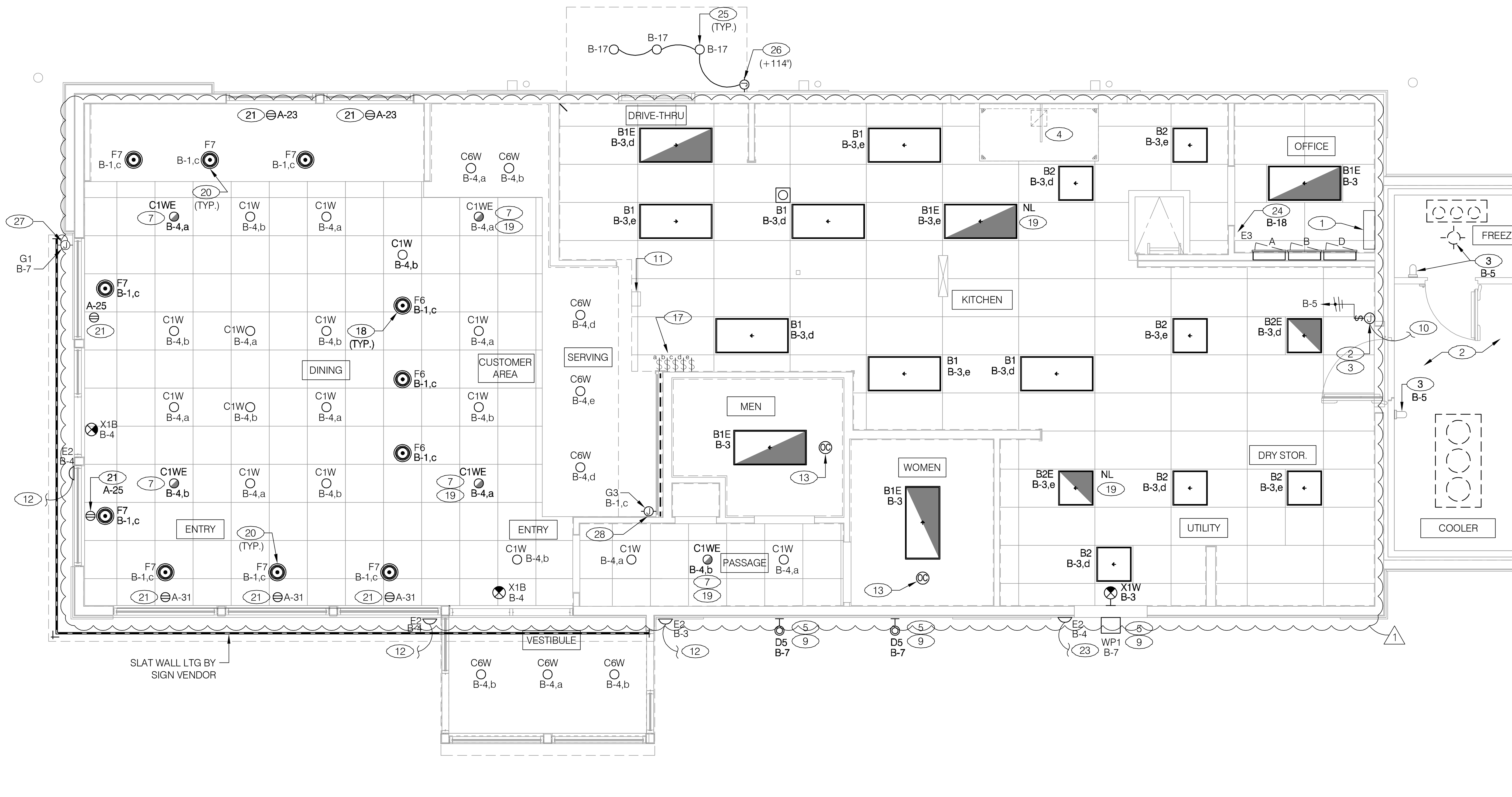
POWER ROOF PLAN

E3.2

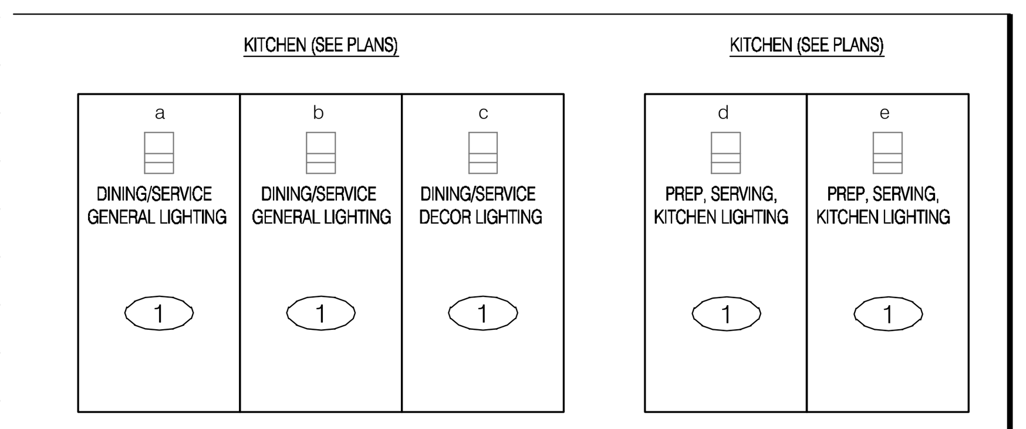
6/29/20

GENERAL NOTES

A. CONFIRM LIGHTING FIXTURE QUANTITIES WITH SUPPLIER. ALL FIXTURES SUPPLIED WITH LAMPS.
B. EMERGENCY AND NORMAL LIGHTING MARKED WITH "NL" SUBSCRIPT SHALL OPERATE CONTINUOUSLY. EMERGENCY LIGHTING NOT MARKED WITH "NL" SUBSCRIPT SHALL OPERATE UNDER CONTROL OF LIGHTING SWITCH AS INDICATED. PROVIDE UNSWITCHED CONSTANT HOT TO EMERGENCY BALLAST AND EMERGENCY LIGHTING NOT MARKED WITH "NL" SUBSCRIPT SHALL OPERATE UNDER CONTROL OF LIGHTING SWITCH AS INDICATED. PROVIDE UNSWITCHED CONSTANT HOT TO EMERGENCY BALLAST AND SWITCHED HOT TO NORMAL BALLAST.
C. ALL CONDUITS ENTERING OR LEAVING COOLER/FREEZER SHALL BE PROVIDED WITH SEAL-OFF FITTING WITH COMPOUND PER NEC 300-(7a).
D. ALL INTERIOR LIGHTING CIRCUITS TO BE WIRED THRU THE LIGHTING CONTROL RELAY. ALL EXTERIOR NON-EMERGENCY LIGHT FIXTURES AND EXTERIOR SIGNS SHALL BE CONTROLLED THROUGH PHOTOCELL AND LIGHTING CONTROL RELAYS. SEE SHEET E6.0.
E. CONTRACTOR TO FIELD VERIFY CEILING TYPE AND PROVIDE PROPER MOUNTING HARDWARE.
F. RECESSED FIXTURES INSTALLED IN AN INSULATED CEILING SHALL BE I.C. RATED.
G. CONTRACTOR TO CONSULT WITH LIGHTING MANUFACTURER'S TO PROVIDE U.L. LABELING TO REFLECT ACTUAL LAMP WATTAGE USED, NOT MAX FIXTURE WATTAGE.



LIGHTING PLAN 1/4"=1'-0" **A**



(1) 120-VOLT, 20-AMP, 1-POLE WALL-SWITCH. PROVIDE COVERPLATE PER DECOR SPECIFICATIONS.

NOTES:

CONTRACTOR TO VERIFY EXACT CONFIGURATION REQUIRED WITH SPACE AVAILABLE. PROVIDE LABELS AS DIRECTED BY OWNER. SWITCHES SHALL NOT BE MOUNTED HIGHER THAN 48".

SWITCH "GANGING" SHOWN FOR REFERENCE ONLY. CONTRACTOR TO DETERMINE (IN-FIELD) THE EXACT NUMBER OF GANGED SWITCHES ACCORDING TO TYPE OF SWITCHING USED AND DE-RATING FACTORS OF MULTIPLE DEVICES INSTALLED PER LOCAL N.E.C..

SWITCHES PROVIDE A MANUAL CONTROL POINT (BETWEEN THE LIGHTING CONTACTOR AND LIGHTING FIXTURES).

SWITCH BANK DETAIL **D**

NO.	QTY	LOCATION	MFR / CATALOG NUMBER	DESCRIPTION	LAMP #	LAMP TYPE	BALLAST TYPE	MOUNTING TYPE	MOUNTING HT.	VOLT	WATT	REMARKS
A	5	SITE LIGHT	LSI INDUSTRIES MRM-LED-18L-SIL-40-70CRI-IL-BRZ	LED AREA LIGHTS FORWARD THROW, BRONZE FINISH	1	LED	NA	POLE -	20'-0" -	120	150	PROVIDED WITH REAR HOUSING SHIELD
B	0	SITE LIGHT	LSI INDUSTRIES MRM-LED-18L-SIL-40-70CRI-BRZ	LED AREA LIGHTS FORWARD THROW, BRONZE FINISH	1	LED	NA	POLE -	20'-0" -	120	300	DOUBLE HEAD -
A6	5	SITE POLE	LSI INDUSTRIES 4SQB3-S07G-20-D180-BRZ	4" SQ 7 GA 20FT POLE D180 -	-	-	-	- -	- -	-	-	SEE CIVIL PLANS FOR POLE DETAILS
B1	6	KITCHEN	ELITE 24-FPL-BL-LED-4000L-DIM10-MVOLT-85	2x4 LED FLAT PANEL	-	LED	NA	RECESSED GRID	- -	120	39	- -
B1E	5	RR, OFFICE, & KITCHEN	ELITE 24-FPL-BL-LED-4000L-DIM10-MVOLT-85-0-EMG-LED-20W	2x4 LED FLAT PANEL	-	LED	EM	RECESSED GRID	- -	120	39	PROVIDED WITH INTEGRAL BATTERY PACK
B2	2	KITCHEN	ELITE 22-FPL-BL-LED-4000L-DIM10-MVOLT-85	2x2 LED FLAT PANEL	-	LED	NA	RECESSED GRID	- -	120	37.4	- -
B2E	6	KITCHEN	ELITE 22-FPL-BL-LED-4000L-DIM10-MVOLT-85-0-EMG-LED-20W	2x2 LED FLAT PANEL	-	LED	EM	RECESSED GRID	- -	120	37.4	PROVIDED WITH INTEGRAL BATTERY PACK
C1W	16	DINING	TCP: LED14DR5630KB95 ELITE HOUSING: B6IC-AT-W	RECESSED LED DOWNLIGHT	1	LED	NA	RECESSED DROP CLG	- -	120	14	- -
C1WE	5	DINING	TCP: LED14DR5630KB95 ELITE HOUSING: B6IC-AT-W	RECESSED LED DOWNLIGHT	1	LED	EM	RECESSED DROP CLG	- -	120	14	
C6W	8	DINING	TCP: LED14DR5630K95 ELITE HOUSING: E45180172	RECESSED LED DOWNLIGHT	1	LED	NA	RECESSED HARD CLG	- -	120	14	- -
D5	2	EXTERIOR SCONCE	PROGRESS LTG - P5642-20 TOP COVER P8798-31	BRONZE 6" DOWN CYLINDER	1	SEE REMARKS	NA	- -	CNTR OF BRACKET AT 14'-0" A.F.F.	120	18	(BULB) TCP L14PAR38 D30KFLW -
E2	4	EXTERIOR	THOMAS & BETTS CAMLSDDB-CW	EXTERIOR EMERGENCY EGRESS FIXTURE	2	LED	NA	UNIVERSAL -	SEE KEY NOTES	120	18	UNSWITCHED 'HOT' -
E3	0	DINING -	EVENLITE PW12-LC-V1-TB	BATTERY BACK-UP/ INVERTER	-	-	-	- -	- -	120		CONVERTS STANDARD FIXTURES TO EMER. (7)
F6	3	HUB TABLE -	BASELIGHT CO15/78EXT/59INT/BLC25WINC MAX	HUB TABLE PENDANT -	1	LED	NA	PENDANT -	VARIES -	120	25	- -
F7	8	PERIMETER TABLE	HI-LITE: H2421-96-CB15-20WLBL-6OP TCP: LED10A19D0D27K (BULB)	12" GALVANIZED PENDANT	1	10W LED	NA	PENDANT -	6'-8" A.F.F.	120	10	- -
G1	VERIFY	EXTERIOR SLAT WALL	CONTECH #TLTO-12V-2-WW-16CR	OUTDOOR LED STRIP LIGHT	-	LED	NA	- -	- -	120	1.8/FT	BY SIGN VENDOR -
G3	VERIFY	COLOR CHANGING LIGHT WALL	LED POWER #HB-40 W/ ACCESSORIES	DINING ROOM LED STRIP	1	LED	NA	- -	- -	120	96	- -
X1B	2	DINING	LIGHTALARMS QLXN500R-N, PW-08118-L	EXIT SIGN, LED UNIVERSAL MOUNT LED	-	-	-	CEILING -	- -	120	3	PENDANT MOUNT FIXTURE +9' A.F.F. TO BOTTOM
X1W	1	KITCHEN	LIGHTALARMS QLXN500R-N	EXIT SIGN, LED UNIVERSAL MOUNT LED	-	-	-	WALL -	- -	120	3	- -
WP1	1	EXTERIOR WALL	LUMARK (EATON) LDWP-FC-3B-120V	LED WALL PACK	1	LED	-	WALL -	8'-6" -	120	27	FULL CUTOFF DOOR -

NOTES:
1. CONTRACTOR TO CONSULT WITH LIGHTING MANUFACTURER'S TO PROVIDE FIXTURE LAMPS & UL LABELING TO REFLECT ACTUAL LAMP WATTAGE USED, NOT MAX FIXTURE WATTAGE.
2. RECESSED FIXTURES INSTALLED IN AN INSULATED CEILING SHALL BE I.C. RATED.

LIGHTING FIXTURE SCHEDULE **C**

1. UTILIZE TIMECLOCK CONTROLS FOR LIGHTING CIRCUITS. REFER TO E6.0 FOR ADDITIONAL INFORMATION.
2. FOR LIGHTING FIXTURES, CONDUIT, CONDUCTORS AND INSTALLATION RESPONSIBILITIES, REFER TO SCOPE OF WORK.
3. WALK-IN FIXTURE & SWITCH FACTORY INSTALLED WITH UNIT. CONTRACTOR TO COMPLETE CIRCUITING. PROVIDE LIQUID-TIGHT FLEXIBLE CONDUIT FOR CONDUCTORS. REFER TO GENERAL NOTE "C".
4. EXHAUST HOOD LIGHT FIXTURES SUPPLIED WITH HOOD AND MOUNTED IN PRE-WIRED J-BOX. COMPLETE CIRCUITING PER DETAIL E6.0.
5. COORDINATE J-BOX LOCATION WITH WOOD FRAMING SO IT REMAINS CONCEALED BEHIND FIXTURE. VERIFY MOUNTING HEIGHT WITH ARCH. DRAWINGS.
6. NOT USED.
7. 'C1WE' FIXTURES WIRED THROUGH INVERTER 'E3' ON CIRCUIT B-4.
8. NOT USED
9. REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS ON A4.0 AND A4.1 FOR DIMENSIONED LOCATION OF FIXTURE.
10. LIQUID TIGHT FLEXIBLE CONDUIT TO FIXTURES. SEAL ALL ELECTRICAL CONDUITS INTO THE WALK-IN COOLER PER U.L. LISTING RECOMMENDATIONS.
11. ALERT LIGHT : ONLY APPLIES WHEN A GEN IV POWER SOAK IS USED. DISREGARD IF GEN III POWER SOAK IS USED. SEE SHEET E3.0 FOR POWER REQUIREMENTS.
12. MOUNT "E2" AT 6'-8" A.F.G. TO CENTER OF FIXTURE.
13. REFER TO DETAIL #B, SHEET E7.0. WIRE RESTROOMS AHEAD OF ANY LIGHTING CONTROL OR RELAY.
14. NOT USED.
15. NOT USED.
16. NOT USED.
17. PROPOSED SWITCH BANK LOCATION FOR LOCAL LIGHTING CONTROL (COORDINATE EXACT SWITCH BANK LOCATION WITH OWNER IN FIELD). CONTRACTOR TO PROVIDE SWITCH INDICATION AND LABEL FOR THEIR INTENDED USE. SEE SWITCHBANK DETAIL , THIS SHEET FOR MORE INFORMATION. VERIFY EACH THE LIGHTING AREA BEING CONTROLLED BY SWITCH BANK, IS WITHIN THE LINE OF SIGHT FROM THE CONTROLLING LOCATION. ANY "CONTROLLED" LIGHTING IN AREAS, NOT WITHIN THE LINE OF SITE, FROM THE CONTROLLING DEVICE LOCATION, SHALL BE PROVIDED WITH WITH AN ANNUNCIATOR DEVICE (E.G. WITH PILOT LIGHT), SO WHEN THE AREA BEING CONTROLLED IS LIT, THE CONTROLLING DEVICE IS ANNUNCIATED.
18. F6 FIXTURES TO BE MOUNTED FROM HUB TABLE CROSS BAR BY ELECTRICAL CONTRACTOR. COORDINATE PRE-DRILLED HOLES AND WIRING WITH FURNITURE VENDOR. FIXTURES TO BE HUNG AT STAGGERED LENGTHS DOWN FROM THE CROSS BAR. REFER TO ARCHITECTURAL DRAWINGS FOR INFORMATION. COORDINATE LENGTH WITH TACO BELL PROJECT MANAGER.
19. NIGHT LIGHT.
20. COORDINATE THE POSITION OF LIGHT FIXTURES WITH ARCHITECTURAL DRAWINGS.
21. FLUSH MOUNTED JUNCTION BOX WITH NEMA TYPE RECEPTACLE & COVER TO MATCH DECOR. MOUNT WITHIN 6" ABOVE OR 18" PROJECTION FROM WINDOW PER NEC 210.62. ROUTE CIRCUIT THROUGH RELAY PANEL FOR CONTROL.
22. NOT USED.
23. MOUNT "E2" AT 6'-10" A.F.G. TO CENTER OF FIXTURE.
24. PROVIDE NEW INVERTER. SEE LIGHTING FIXTURE SCHEDULE FOR INFORMATION. OPTIONAL MOUNTING CONFIGURATIONS THROUGH MANUFACTURER. INSTALL INVERTER AT A LOCATION TO MINIMIZE EXCESSIVE VOLTAGE-DROP ON CONDUCTORS. COORDINATE LOCATION WITH GENERAL CONTRACTOR. MAKE ALL FINAL CONNECTIONS.
25. CANOPY DOWN LIGHTS FURNISHED WITH CANOPY. MAKE FINAL CONNECTION.
26. J-BOX FOR CANOPY LIGHTS. VERIFY POINT OF CONNECTION. WIRE VIA EXTERIOR LIGHTING CONTACTOR.
27. JUNCTION BOX MOUNTED IN INTERIOR SPACE, ABOVE ACCESSIBLE CEILING. ROUTE SECONDARY CONDUCTORS TO LOCATION DIRECTED BY SIGN VENDOR.
28. JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING. MOUNT TRANSFORMER TO JUNCTION BOX AND ROUTE SECONDARY CONDUCTORS TO LIGHT STRIP. G.C. TO VERIFY LED MOUNTING LOCATION.

(X) **KEY NOTES** **B**

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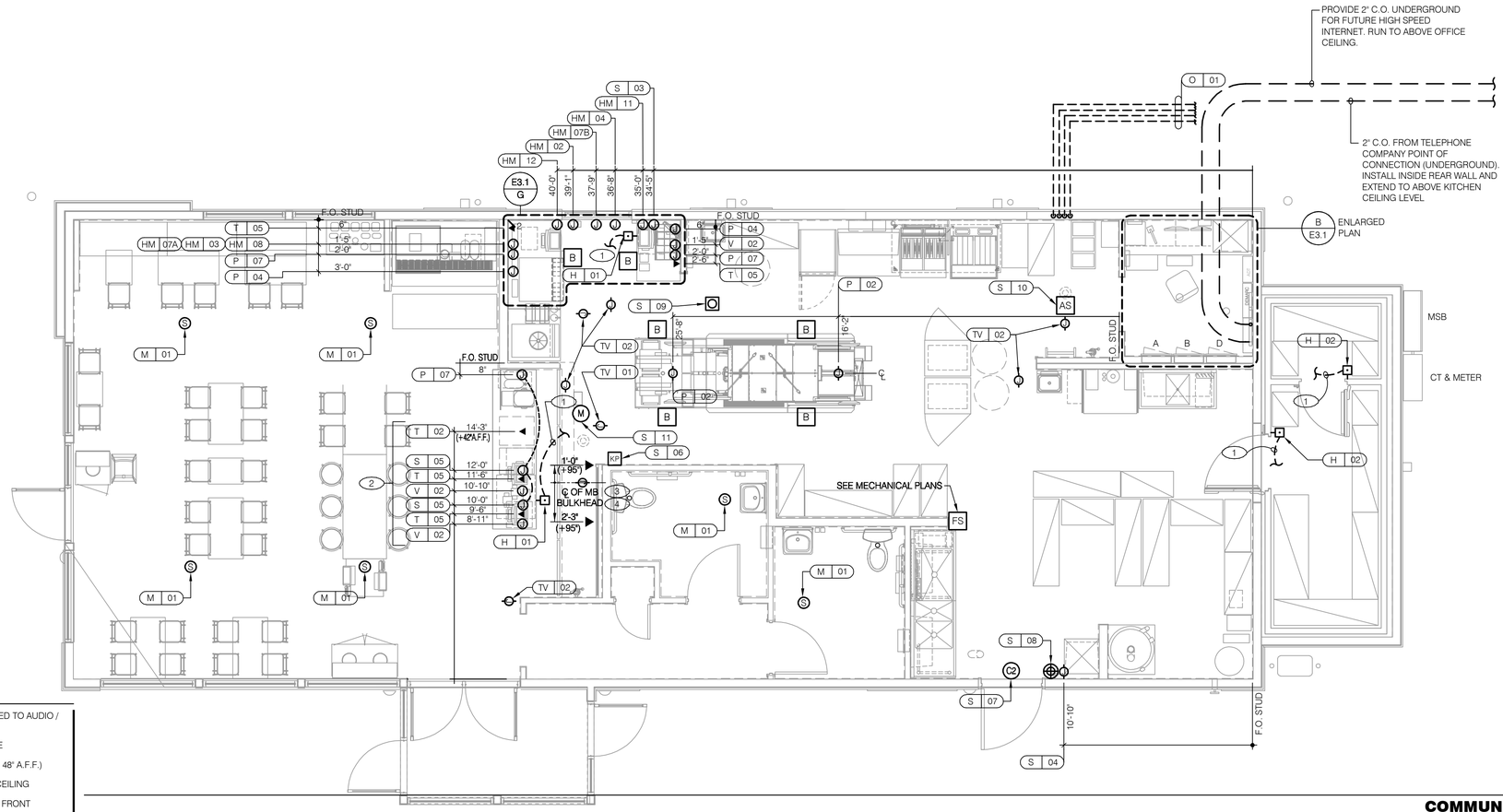
LIGHTING PLAN AND SCHEDULE

E4.0

6/29/20



COMMUNICATIONS PLAN 1/4" = 1'-0" A

- HOLD-UP BUTTON (SEE DETAILS C & D. SHEET E3.1)
- MUSIC SYSTEM SPEAKERS
- SECURITY STROBE
- J-BOX
- 2" x 4" J-BOX W/ DATA PORTS
- MOTION DETECTOR
- OCCUPANCY SENSOR. CEILING MOUNTED. SEE DETAIL B / E7.0
- DOOR CONTACT
- DOOR CONTACT (LINKED TO AUDIO / VISUAL ALARM)
- "SOUND ALERT" DEVICE
- KEYPAD (MOUNTED AT 48" A.F.F.)
- ALARM SIREN ABOVE CEILING
- BUMP PAD (MOUNT AT FRONT COUNTER)
- HOOD FIRE SUPPRESSION SYSTEM PULL STATION
- TECH-IN-A-BOX

COMMUNICATIONS LEGEND C

1. 1/2" CONDUIT WITH PULL STRING FOR HOLD-UP BUTTON SIGNAL WIRE TO SECURITY.
2. ROUTE CONDUIT/CONDUCTORS THRU MILLWORK TO NEAREST FULL HEIGHT WALL TO STUB-UP. ROUTE CONDUIT TO AVOID OBSTACLES/EQUIPMENT IN MILLWORK.
3. ELECTRICIAN TO INSTALL (1) OPEN DATA JUNCTION BOX IN VALANCE WALL. CONDUIT TERMINATED ABOVE CEILING TO HAVE BUSHING.
4. ELECTRICIAN TO RUN (3) ORANGE CAT 6 LINES FROM NETWORK SWITCH TO DATE JUNCTION BOX. CAT6 LINES SHOULD HAVE BOTH ENDS PROPERLY TERMINATED WITH RJ-45 CONNECTORS. EXCESS CAT6 CABLE TO BE COILED INTO SERVICE LOOPS AT EACH END AND LEFT ACCESSIBLE FOR DMB INSTALL TEAM. CAT6 TO BE RUN IN ACCORDANCE WITH ALL LOCAL MUNICIPALITY CODE REQUIREMENTS.

KEY NOTES D

A. SUPPLY AND INSTALL OUTLETS AND CONDUIT FOR OWNER SUPPLIED AND INSTALLED CABLE AND LOW VOLTAGE WIRING (U.O.N.) TELEPHONE AND MUSIC SYSTEM WIRING SHALL BE SUPPLIED AND INSTALLED. SEE SCOPE OF WORK SHEETS.

B. SEE SHEETS. E3.0 AND E3.1 FOR ELECTRICAL INFO ON POS, SECURITY SYSTEM, CCTV SYSTEM, (OFFICE) COMPUTER, DRIVE-THRU TIMER AND DRIVE-THRU COMMUNICATION SYSTEM.

C. THIS PLAN INCLUDES CONDUITS AND J-BOXES FOR POS, SECURITY SYSTEM, CCTV SYSTEM, (OFFICE) COMPUTER, TELEPHONE SYSTEM, MUSIC SYSTEM, DRIVE-THRU TIMER AND DRIVE-THRU COMMUNICATION SYSTEM.

D. ALL OUTLETS AND BOXES MOUNTED IN THE SERVING COUNTER CABINETRY ARE TO BE 24" AFF. INSTALL JUNCTION BOXES WITH CONDUIT UNDER CABINET TO NEAREST WALL AND TO ABOVE CEILING.

COMMUNICATIONS NOTES E

COM. #	EQUIPMENT ITEM	ELEVATION	REMARKS
H 01	UNDER COUNTER SECURITY BUTTON		INSTALL 3045 CTW PART. SEE DETAIL D/E3.1
H 02	WALL MOUNTED SECURITY BUTTON	+18" A.F.F.	2x4 J-BOX FLUSH MOUNTED IN WALK-IN WALL BY COOLER MANUFACTURER WITH 1/2" CONDUIT TO OUTSIDE OF COOLER NEAR KITCHEN CEILING. SECURITY SYSTEM INSTALLER TO INSTALL HOLD-UP BUTTON FACING DOWN AND RUN WIRING. SEE DETAIL C/E3.1
HM 02	D/T TIMER SIGNAL PROCESSOR J-BOX	+114" A.F.F.	4X4X4" DEEP (MIN.) J-BOX ABV. CLG. W/ (1) 1" CONDUIT TO HM-07B, (1) 1" CONDUIT TO HM-04, (1) 1-1/2" CONDUIT TO HM-08 & (1) 1" CONDUIT TO HM-12. SEE DET. G/E3.1.
HM 03	D/T BASE STATION J-BOX	+72" A.F.F.	4X4 J-BOX @ D/T BASE STATION W/ (1) 1-1/2" C TO HM-08 & (1) 1-1/2" C TO HM-07A. SEE DET. G/E3.1.
HM 04	D/T COMM SYSTEM J-BOX	+18" A.F.F.	4X8 J-BOX W/ (1) 1" CONDUIT TO HM-02, (1) 1" CONDUIT TO HM-07A, (1) 1" CONDUIT TO PICK-UP WINDOW D/T LOOP, AND (3) 1" CONDUITS TO D/T MENU BOARD. SEE DET. G/E3.1.
HM 07A	D/T TIMER DISPLAY J-BOX	+62" A.F.F.	2X4 J-BOX W/ (1) 1-1/2" CONDUIT TO HM-03 AND (1) 1"C TO HM-04. SEE DET. G/E3.1.
HM 07B	D/T TIMER DISPLAY J-BOX	+108" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-02. SEE DET. G/E3.1.
HM 08	D/T J-BOX	+96" A.F.F.	4X4X4" DEEP (MIN.) J-BOX W/ (1) 1-1/2" CONDUIT TO HM-03 & (1) 1-1/2" CONDUIT TO HM-02. SEE DET. G/E3.1.
HM 10	OCB SWITCH	+52" A.F.F.	2X4 J-BOX W/ (1) 1" CONDUIT TO ABOVE CEILING
HM 11	D/T CONTROL UNIT J-BOX	+108" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-12 . SEE DET G/E3.1.
HM 12	D/T ETHERNET SWITCH J-BOX	+114" A.F.F.	2X4 J-BOX ABV. CLG W/ (1) 1" CONDUIT TO HM-11, 1" CONDUIT TO HM-02, AND 1" CONDUIT TO OFFICE ROUTER
IR 01	IRRIGATION TIMER	+80" A.F.F.	4X4 J-BOX W/ 1" CONDUIT TO IRRIGATION VALVES.
M 01	RECESSED CEILING SPEAKERS, COLOR - BLACK	CEILING	SPEAKER WIRING FROM SPEAKERS IN DINING ROOM TO AMPLIFIER IN OFFICE.
M 03	MUSIC SYSTEM J-BOX	+60" A.F.F.	4X4 J-BOX & COVER W/ (1) 1/2" CONDUIT TO ABOVE CEILING FOR MUSIC SYSTEM. SEE SCOPE OF WORK.
O 01	(4) 1" DATA CONDUITS	U.G.	FROM MENU BOARD/SPEAKER POST TO ABOVE CEILING FOR OCB AND D/T COMM. SYST. SEE DET. C/E7.0.
P 02	KITCHEN MONITOR J-BOX	@ CLG.	2X4 J-BOX FLUSH @ CEILING. FOR M.A.P.S. LINE / DRIVE THRU MONITOR J-BOX.
P 04	BUMP PAD J-BOX	+24" A.F.F.	2X4 J-BOX W/ (1) 3/4" CONDUIT TO P-02
P 07	POS J-BOX W/ 2-1/2" DIA HOLE IN COVER PLATE	+24" A.F.F.	6X6X4" DEEP J-BOX W/ 2-1/2" CONDUIT IN WALL TO ABV. CEILING, WITH PULL STRING FOR POS.
S 01	J-BOX SECURITY SYSTEM	+48" A.F.F.	4X4 J-BOX AT SECURITY SYSTEM CONTROL PANEL W/ (1) 2" CONDUIT TO S-02.
S 02	J-BOX SECURITY SYSTEM	+106" A.F.F.	4X4 J-BOX ADJACENT TO T-02 W/ (1) 2" CONDUIT TO S-01.

COM. #	EQUIPMENT ITEM	ELEVATION	REMARKS
S 03	J-BOX SECURITY SYSTEM	+24" A.F.F.	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABV. CLG. FOR HOLD-UP BUTTON SIGNAL WIRE. SEE ELEVATION C/E3.1.
S 04	J-BOX SECURITY SYSTEM	+84" A.F.F.	2X4 J-BOX W/ COVER & (1) 1/2" CONDUIT TO ABOVE CEILING.
S 05	J-BOX SECURITY SYSTEM	+24" A.F.F.	2X4 J-BOX W/ 3/4" CONDUIT TO S-05 AND TO ABOVE CEILING.
S 06	J-BOX SECURITY SYSTEM	+48" A.F.F.	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABOVE CEILING FOR SECURITY SYSTEM KEYPAD.
S 07	J-BOX SECURITY SYSTEM	TOP OF JAMB	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABOVE CEILING FOR DOOR CONTACT.
S 08	"SOUND ALERT" DEVICE	CEILING	CONNECT TO SECURITY SYSTEM.
S 09	SECURITY STROBE LIGHT	CEILING	CONNECT TO SECURITY SYSTEM.
S 10	ALARM SIREN	ABV. CEILING	CONNECT TO SECURITY SYSTEM
S 11	MOTION / HEAT DETECTOR	+78" A.F.F.	STUB 1/2" CONDUIT. D5835 OR D5820. MOUNT 90° A.F.F. FOR OFFICE
S 12	J-BOX SECURITY DVR	+42" A.F.F.	2X4 J-BOX FOR SECURITY DVR.
T 01	TELEPHONE SERVICE BOX PER LOCAL TELEPHONE COMPANY. PROVIDE 24"X24"X3/4" PLYWOOD PANEL AT CLG. PROVIDE PULL STRING IN 2" CONDUIT.	+48" A.F.F.	PROVIDE (1) 25 PAIR TELEPHONE CABLE. ONLY (2) LINES TO BE USED. LINE ONE FOR VOICE/FAX. LINE (2) FOR COMPUTER MODEM.
T 02	SECURITY SYSTEM PHONE JACK	+106" A.F.F.	2X4 J-BOX ADJACENT TO S-02 W/ RJ-31X PHONE JACK.
T 03	VOICE LINE PHONE JACK	+42" A.F.F.	2X4 J-BOX W/ DOUBLE RJ-11 PHONE JACK & 1" CONDUIT TO ABOVE CEILING.
T 04	COMPUTER LINE PHONE JACK	+42" A.F.F.	2X4 J-BOX W/ RJ-11 PHONE JACK AND 1" CONDUIT TO ABOVE CEILING.
T 05	POS PHONE JACK	+24" A.F.F.	2X4 J-BOX W/ 1" CONDUIT TO ABOVE CEILING.
TV 01	CLOSED CIRCUIT TELEVISION (CCTV)		CCTV INSTALLATION IS BASED ON THE CRIME INDEX AS DETERMINED BY YUM! LOSS PREVENTION MANAGER. THE STANDARD CCTV PACKAGE WILL CONSIST OF (1) CCTV MONITOR W/ WALL BRACKET AND (1) MINI-DOME CAMERA MTD. TO BTM OF MENU BOARD BULKHEAD.
TV 02	SECURITY CAMERA	BULKHEAD/ CEILING	MINI-DOME CAMERA. 2X4 J-BOX W/(1) 1/2" CONDUIT TO ABOVE CEILING (7 TOTAL).
V 01	ALTERNATE PAYMENT ROUTER BOX	+90" A.F.F.	4X4 J-BOX W/ 1/2" CONDUIT TO ABOVE CEILING FOR ETHERNET CABLES (DOUBLE JACK)
V 02	CREDIT CARD READER (VSAT)	+24" A.F.F.	2X4 J-BOX W/ 1/2" CONDUIT TO ABOVE CEILING FOR ETHERNET CABLES.

COMMUNICATIONS ROUGH-IN SCHEDULE B

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PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

REGISTERED ARCHITECT No. PE10303015 STATE OF INDIANA PROFESSIONAL ENGINEER 8/10/20

1	OWN/STATE COMMENTS 08.10.20
2	
3	
4	
5	

CONTRACT DATE:	8/26/19
BUILDING TYPE:	EXP. LITE MED40
PLAN VERSION:	MARCH 2018
BRAND DESIGNER:	DAN DICKSON
SITE NUMBER:	314007
STORE NUMBER:	TBD

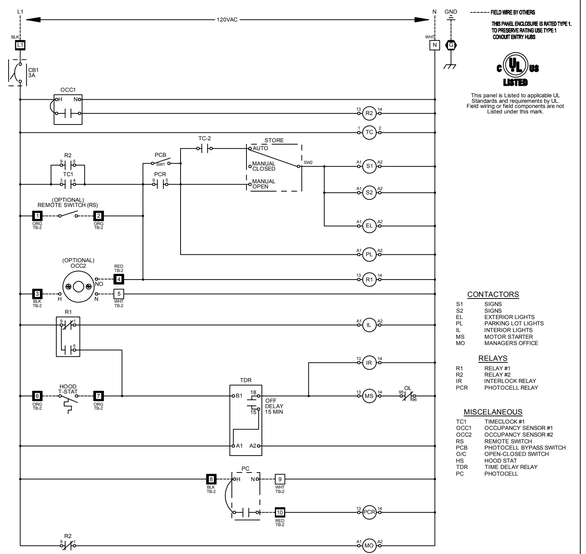
1 TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

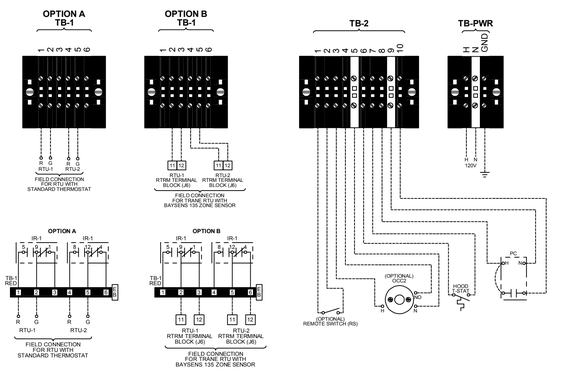
TACO BELL
EXPLORER LITE
MEDIUM40

COMMUNICA-TIONS PLAN

E5.0

6/29/20





CONTACTORS

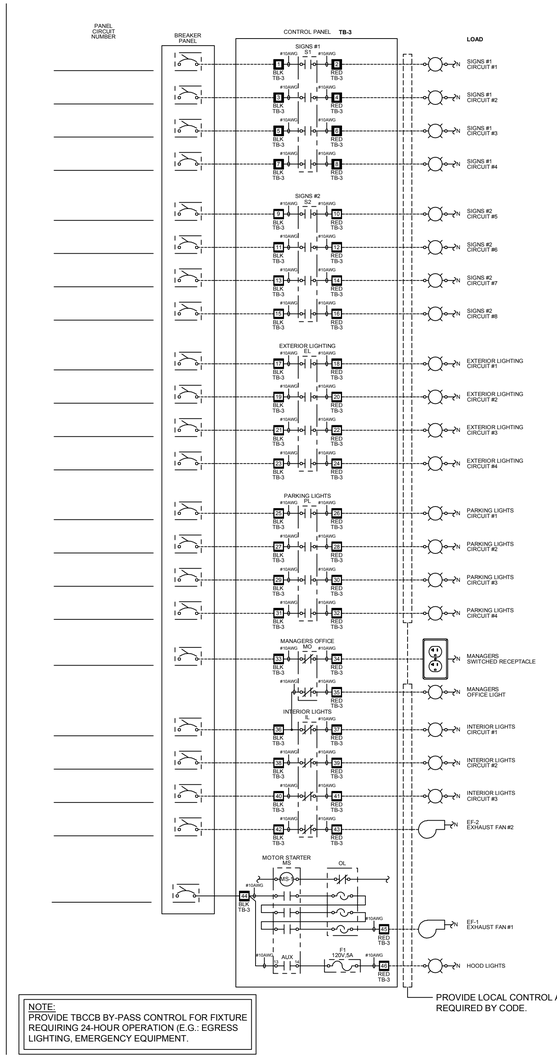
S1	SIGNS
S2	SIGNS
EL	EXTERIOR LIGHTS
PL	PARKING LOT LIGHTS
IL	INTERIOR LIGHTS
MS	MOTOR STARTER
MO	MANAGERS OFFICE

RELAYS

R1	RELAY #1
R2	RELAY #2
IR	INTERLOCK RELAY
PCR	PHOTOCELL RELAY

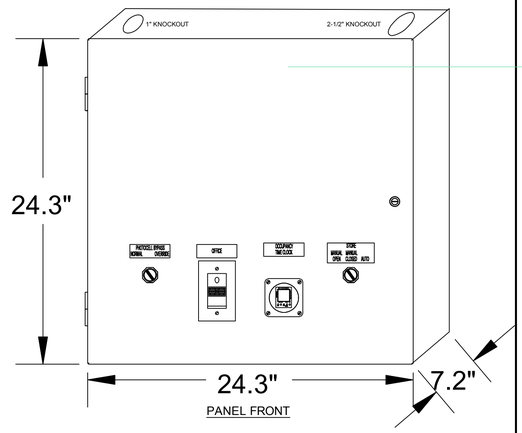
MISCELANEOUS

TC1	TIMECLOCK #1
OCC1	OCCUPANCY SENSOR #1
OCC2	OCCUPANCY SENSOR #2
RS	REMOTE SWITCH
PCB	PHOTOCELL BYPASS SWITCH
OC	OPEN-CLOSED SWITCH
HS	HOOD STAT
TDR	TIME DELAY RELAY
PC	PHOTOCELL

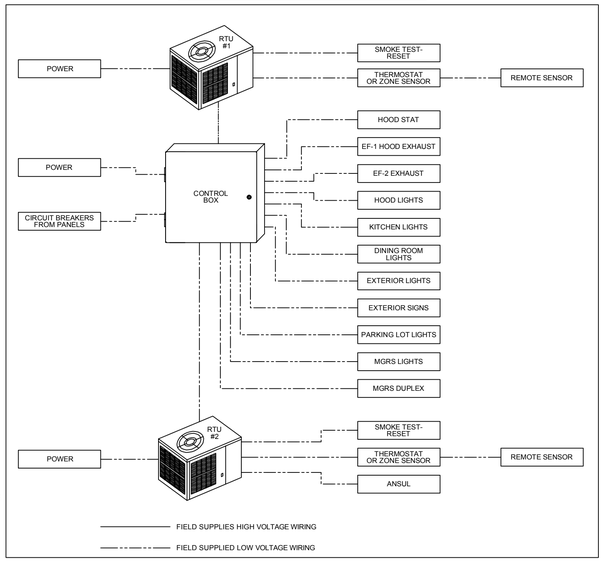


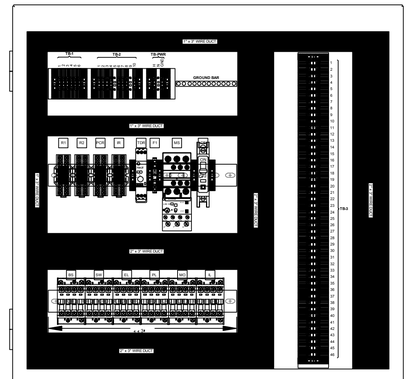
NOTE:
PROVIDE TBCCB BY-PASS CONTROL FOR FIXTURE REQUIRING 24-HOUR OPERATION (E.G.: EGRESS LIGHTING, EMERGENCY EQUIPMENT.

CONTROL BOX
Taco Bell's supplier of the Control Box is Air Care Experts.
Combined Control Box is part of the lighting package. The Control Box includes the box and all components shown within the box and internal wiring between the components.
Primary Contact: Chuck McCabe
Phone: 949 770 2222
Fax: 949 770 5885
Email: CMCCABE@ACE-IAQ.COM



TACO BELL COMPONENT RELATIONSHIP





SUBPANEL LAYOUT

Taco Bell BMS Control Box

The intent of the BMS Control Box is to activate or deactivate the following:

- Kitchen Lighting
- Dining Room Lighting
- Exterior Lighting
- Exterior Signs
- Exhaust hood exhaust fan
- Exhaust hood lighting
- Make up air / replacement air fan
- Rest room / cook line exhaust fan
- Managers Office lighting & at least one duplex outlet

Sequence of Operation

Occupied Mode

A Timeclock in the Control Box is programmed to place the building in Occupied mode 15 minutes before the first Team Member arrives on the premises. This allows power to proceed to the following:

- The photocell for the Parking Lot Lights and Open/Closed switch
- The restroom and cook line exhaust fan marked "EF-2"
- Light switches for the dining room lights
- The kitchen and rest room lights
- A timer relay for the exhaust hood motor starter marked "EF-1" and a relay (IR) for the make up air replacement air fan (evaporator fan) in RTU 1 and RTU 2.

The timer relay for the exhaust hood motor starter immediately activates motor starter EF-1 and relay IR. When activated, motor starter EF-1 contacts close providing power to the exhaust hood exhaust fan. It also closes auxiliary contacts that turn on the exhaust hood lights. Activation of relay IR causes the contacts for RTU 1 and RTU 2 to close, returning 24 volts to the evaporator fan controller of each respective unit.

Occupied mode may also be invoked when optional Occupancy sensors and or an Occupied switch located in the managers office is activated or placed in the Occupied positon.

Unoccupied Mode

The Timeclock in the Control Box is programmed to place the building in "Unoccupied" mode at a time provided by Operations.

This removes power for the following:

- Photocell for the Parking Lot Lights and the Open/Closed switch
- The Interior lights
- The R-1 relay
- The exhaust fans

The timer relay for the exhaust hood motor starter continues power to motor starter EF-1 and the relay (IR) for the make up air replacement air fan (evaporator fan) in RTU 1 and RTU 2 for fifteen minutes after the loss of power to the timer. Motor starter EF-1 continues to provide power to the exhaust hood exhaust fan. It also keeps closed the auxiliary contacts that turn on the exhaust hood lights. Power also continues to relay (IR) for the make up air replacement air fan (evaporator fan) in RTU 1 and RTU 2. After fifteen minutes without power to the timer, the timer opens contacts to EF-1 motor starter, the auxiliary hood lighting contacts and relay (IR) for the make up air replacement air fan (evaporator fan) in RTU 1 and RTU 2. This drops power to the exhaust fan and the hood lights. Relay IR opens its contacts interrupting the 24 volts returned to RTU 1 and RTU 2 evaporator fan controllers. RTU 1 and RTU 2 evaporator fans may continue to operate if their respective thermostats or zone controllers are calling for evaporator fan operation.

In the event of a rise in temperature above 85 degrees in the exhaust hood, control voltage will be sent to the timer relay for the exhaust hood motor starter which will immediately activate motor starter EF-1 and relay IR. When activated, motor starter EF-1 contacts close providing power to the exhaust hood exhaust fan. It also closes auxiliary contacts that turn on the exhaust hood lights. Upon activation of relay IR, the contacts for RTU 1 and RTU 2 close, returning 24 volts to the evaporator fan controller of each unit.

When in Unoccupied mode and upon a drop in temperature below 85 degrees in the exhaust hood, control voltage to the timer delay is dropped however the timer relay for the exhaust hood motor starter continues power to motor starter EF-1 and the relay (IR) for the make up air replacement air fan (evaporator fan) in RTU 1 and RTU 2 for fifteen minutes after the loss of control power to the timer. Motor starter EF-1 continues to provide power to the exhaust hood exhaust fan. It also keeps closed the auxiliary contacts that turn on the exhaust hood lights. Power also continues to relay (R1) for the make up air replacement fan (evaporator fan) in RTU 1 and RTU 2. After fifteen minutes without power to the timer, the timer opens contacts to EF-1 motor starter, the auxiliary hood lighting contacts and relay (IR) for the make up air replacement air fan (evaporator fan) in RTU 1 and RTU 2. This drops power to the exhaust fan and the hood lights. Relay IR opens its contacts interrupting the 24 volts returned to RTU 1 and RTU 2 evaporator fan controllers. RTU 1 and RTU 2 evaporator fans may continue to operate if their respective zone controllers are calling for evaporator fan operation.

Any detection by the Occupancy sensor in the Managers office or the optional Remote Occupancy Sensor or the optional Remote Occupancy Switch will override the Timeclock and keep the building in OCCUPIED mode.

OPEN/CLOSED Automatic and Manual Operation

An OPEN/CLOSED switch exists on the front panel of the Control Box. This switch has three positions. When in the Automatic position, a timeclock will activate the Signs and Exterior Lights, provided the Photocell has determined that it is dark enough outside for the lights to be on, at a time that has been programmed into the timeclock. A Team Member may place the OPEN/CLOSED switch in the Manual OPEN or Manual CLOSED position to override the timeclock operation of the Open mode or Closed mode.

Manual OPEN Mode

When a Team Member places the OPEN/CLOSED switch in the Manual OPEN position it activates the Signs and Exterior Lights when the Photocell determines it is dark enough for the lights to be on. The store will remain in the OPEN operation until the switch is moved to either the CLOSED position or the Automatic timeclock operation.

Manual CLOSED Mode

When a Team Member places the OPEN/CLOSED switch in the Manual CLOSED position it turns off the Signs and Exterior Lights. The store will remain in the CLOSED operation until the switch is moved to either the OPEN position or the Automatic timeclock operation.

External Operations Not Part Of The Control Box Operation But Required To Be Installed

The following operations should take place between the package units and various components:

- Control voltage for RTU 2 shall pass through contacts in the fire suppression system for the exhaust hood so that RTU 2 evaporator fan shuts down upon an activation of the fire suppressant into the hood. The system shall be wired directly between the fire suppression system and RTU 2.
- A remote smoke detector system featuring testing, annunciation and remote unit reset shall be installed in the manager's office for each RTU. The system shall be wired directly between each RTU and its respective testing, annunciation and reset device.

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REGISTERED PROFESSIONAL ENGINEER
No. PE10303015
STATE OF INDIANA
PROFESSIONAL ENGINEER
8/10/20

1 OWN/STATE COMMENTS 08.10.20
2
3
4
5

CONTRACT DATE: 8/26/19
BUILDING TYPE: EXP. LITE MED40
PLAN VERSION: MARCH 2018
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 314007
STORE NUMBER: TBD

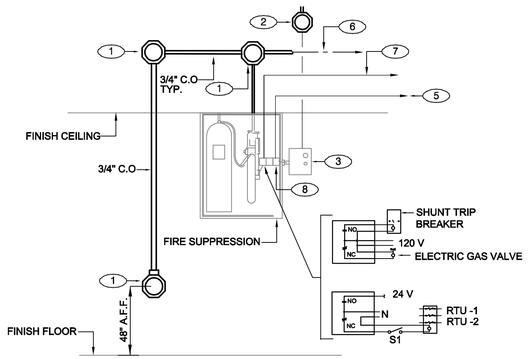
1 TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

ELECTRICAL DETAILS

E6.0

6/29/20



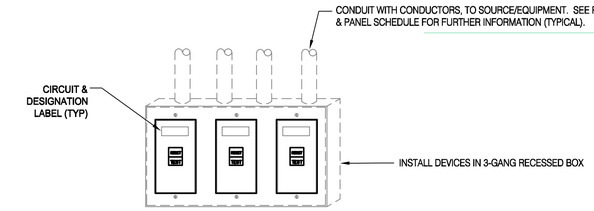
GENERAL NOTE:

1. REFER TO MECHANICAL SHEETS FOR MORE INFORMATION

KEYED NOTES: (X)

1. PROVIDE 4" OCTAGONAL J-BOX.
2. PROVIDE J-BOX , AND 110 V CIRCUIT. REFER TO EQUIPMENT SCHEDULE/FLOOR PLAN FOR CIRCUIT ASSIGNMENT. INTERCONNECT TO MANUAL RESET RELAY THROUGH MICROSWITCH.
3. MANUAL RESET RELAY FURNISHED WITH UNIT INSTALLED BY E.C.
4. NOT USED.
5. PROVIDE 1/2" C WITH CONTROL CABLE. MAKE INTERCONNECTIONS TO EXHAUST & SUPPLY FAN INTERFACE THROUGH MICROSWITCH ON HOOD.
6. CABLE AND CONNECTION TO FUSIBLE LINKS AT EXHAUST HOOD BY K.E.C.
7. PROVIDE INTERCONNECTION TO "SHUNT-TRIP" BREAKER AT PANEL AND MICROSWITCH AT HOOD. SEE DETAIL F, THIS SHEET.
8. SLOT FOR SNAP ACTION MICRO-SWITCH. UP TO FOUR SWITCHES AVAILABLE FOR HOOK-UP.
   SWITCH 1: GAS SHUT-OFF VALVE.
   SWITCH 2: EXHAUST/SUPPLY
   SWITCH 3: SHUNT TRIP BREAKER IN ELECTRICAL PANEL.

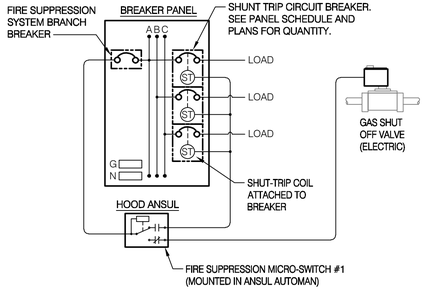
FIRE SUPPRESSION SYSTEM WIRING DIAGRAM N.T.S. **D**



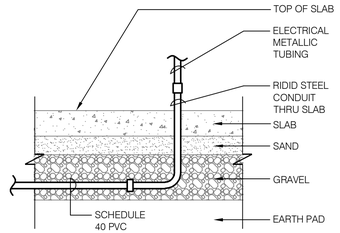
NOTES:
1. DEAD FRONT GFCI DEVICES ARE REQUIRED FOR KITCHEN EQUIPMENT REQUIRING BOTH A SHUNT TRIP BREAKER AND GFCI PROTECTION.
2. REFER TO SHEET E3.0 FOR LOCATION OF DEAD FRONT GFCI DEVICES.
3. PROVIDE LABEL ON DEVICES WITH CIRCUIT NUMBER AND LOAD DESIGNATION.

DEAD-FRONT GFCI DEVICE DETAIL N.T.S. **A**

SEQUENCE OF OPERATION:
UPON ACTIVATION OF ANY HOOD FIRE SUPPRESSION SYSTEM, THE (NORMALLY-CLOSED, DRY-CONTACT) RELAY IN THAT FIRE SUPPRESSION SYSTEM SHALL CAUSE ALL SHUNT TRIP CIRCUIT BREAKERS TO OPERATE, THUS REMOVING POWER FROM ALL DEVICES CONNECTED TO EQUIPMENT LOCATED UNDER THE "TYPE 1" HOOD. EXHAUST FANS SHALL NOT BE AFFECTED BY THIS ACTION AND SHALL CONTINUE TO BE CONTROLLED AS INDICATED IN THE SEQUENCE OF OPERATIONS INDICATED ON E6.X SHEETS.

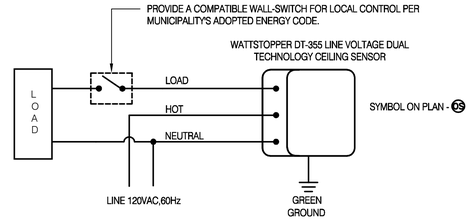


SHUNT TRIP DETAIL N.T.S. **G**



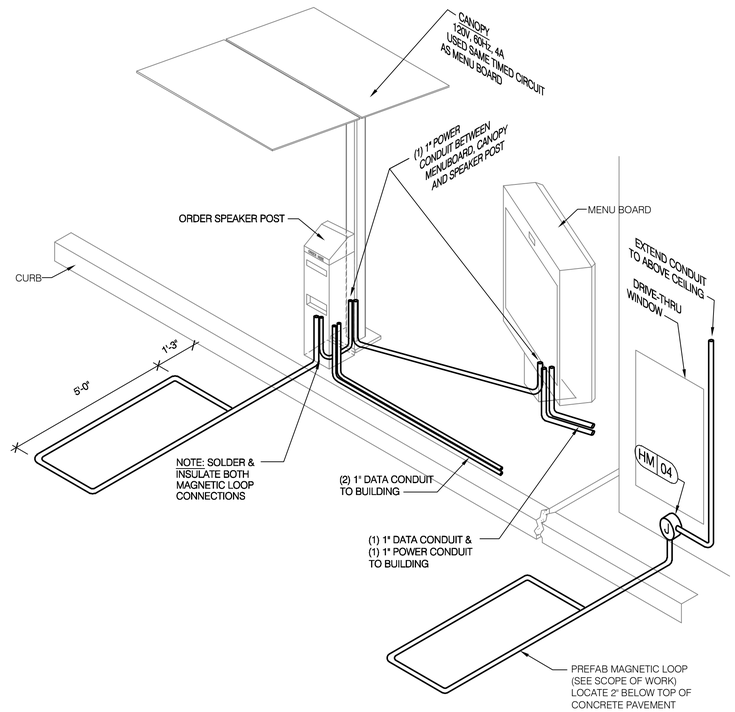
NOTE: GREEN GROUND WIRE REQUIRED IN ALL CONDUITS, SIZED PER N.E.C. REQUIREMENTS.

UNDER SLAB CONDUIT N.T.S. **E**



CEILING OCCUPANCY SENSOR WIRING DIAGRAM N.T.S. **B**

NOT USED N.T.S. **F**



MENUBOARD / OCB POWER & COMMUNICATIONS DETAIL N.T.S. **C**

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REGISTERED PROFESSIONAL ENGINEER
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SITE NUMBER:	314007
STORE NUMBER:	TBD

1 TACO BELL
3615 BREMEN HWY
MISHAWAKA, IN 46544

TACO BELL
EXPLORER LITE
MEDIUM40

ELECTRICAL DETAILS

E7.0

6/29/20