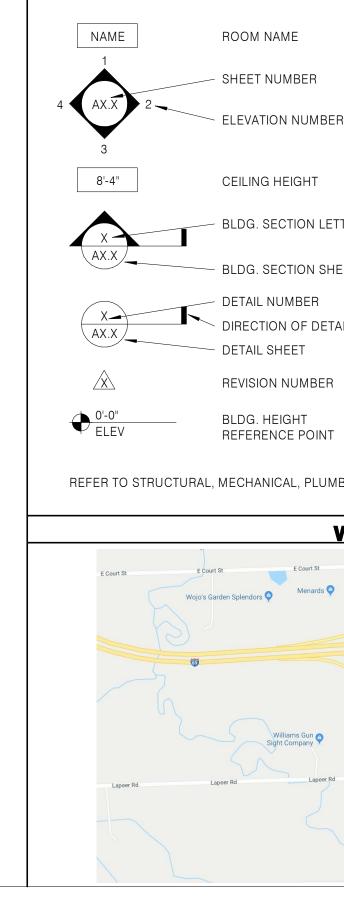


# 7931 LAPEER RD DAVISON, MI 48423



- A. ALL WORK SHALL CONFORM TO THE 2014 EDITION OF THE INTERNATIONAL BUILDING CODE, AND ALL OTHER APPLICABLE CODES, STANDARDS, AND REGULATIONS OF THE CITY OF DAVISON.
- 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 <u>MAY 17, 2018</u> PREPARED BY <u>KEM-TEC & ASSOCIATES</u> AND IS INCLUDED IN THESE DOCUMENTS.
- E. THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A GEOTECHNICAL INVESTIGATION DATED <u>MAY 8, 2015</u> BY <u>CARDNO</u>. 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. 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.



	PROJEC'	T SUMMARY		SHEET INDEX
	LEGAL JURISDICTION: CITY OF DAVISON		Sheet Number	Sheet Name
	BUILDING CODE: 2015 MICHIGAN BUILDING CODE			
	MECHANICAL CODE: 2012 INTERNATIONAL MECHANICA	AL CODE	1 - TITLE T1.0	TITLE SHEET
	PLUMBING CODE: 2014 MICHIGAN PLUMBING CODE		T2.0	LIFE SAFETY PLAN
	ELECTRICAL CODE: 2017 NEC		G1.0	YUM GREEN CHECKLIST
	FIRE CODE: 2012 IFC		G2.0 3 - STRUCTUR	
			S1.1	FOUNDATION PLAN - ALTERNATE BID
	ENERGY CODE: 2015 IECC WITH AMENDMENTS		S3.1	ROOF FRAMING PLAN - ALTERNATE BID
	HEALTH CODE: MICHIGAN PUBLIC HEALTH CODE		S4.6	STRUCTURAL SECTIONS - ALTERNATE BID
	ACCESSIBILITY: ANSI A117.1		S1.0 S2.0	FOUNDATION PLAN WALL FRAMING PLAN
	BUILDING AREA: 1,900 SF (GROSS)		S3.0	ROOF FRAMING PLAN
	SEATING: 52 (40 INTERIOR, 12 EXTERIOR)		S4.0	STRUCTURAL DETAILS FOUNDATION
	OCCUPANCY: A2		S4.1	STRUCTURAL DETAILS FRAMING
	TYPE CONSTRUCTION: TYPE VB		S4.2 S4.3	STRUCTURAL DETAILS ROOF STRUCTURAL DETAILS
			S4.5	STRUCTURAL SECTIONS
			S4.5	STRUCTURAL SECTIONS
	# PHONE LINES: 25 PAIR CABLE IN 2" CONDUIT		S5.0	CANOPY/AWNING BLOCKING ELEVATIONS
	ELECTRIC SERVICE: 600 AMPS / 3 PHASE / 120-208 VO	DLT	4 - ARCHITEC	FLOOR PLAN
	GAS: 736,000 BTUH		A1.0	DOOR AND WINDOW SCHEDULE
			A1.2	FLOOR PLAN - ALTERNATE BID
	PROJECT SCOPE INCLUDES ONE (1) ALTERNATE BID IT	EM (SEE SHEETS LABELED 'ALTERNATE BID'):	A2.0	SEATING AND EQUIPMENT PLAN
	BASE BID: G.CBUILT TOWER		A2.1	EQUIPMENT SCHEDULE EQUIPMENT SCHEDULE
	ALTERNATE BID: PRE-FAB TOWER ON G.CBUI		A2.2 A3.0	ROOF PLAN
	ACTENIATE DD. THETAD TOWEN ON G.CBUI		A3.1	ROOF PLAN - ALTERNATE BID
			A4.0	EXTERIOR ELEVATION
	DESIGN	CRITERIA	A4.1 A4.2	EXTERIOR ELEVATIONS COLORED ELEVATIONS
	WIND SPEED: 115 M.P.H. 3SGVLT / EXPOSURE B		A4.2 A5.0	BUILDING SECTIONS
	SEISMIC DESIGN CATEGORY: B		A5.1	BUILDING SECTIONS
	ROOF LIVE LOAD: 20 P.S.F.		A5.2	WALL SECTIONS
			A5.3 A5.4	WALL SECTIONS WALL SECTIONS
			A5.4 A6.0	CONSTRUCTION PLAN DETAILS
			A6.1	CONSTRUCTION DETAILS - WALL
			A6.2	CONSTRUCTION DETAILS ROOF
			A6.3 A6.4	CONSTRUCTION DETAILS - DOORS
			A6.4 A6.5	CONSTRUCTION DETAILS - WINDOWS FINISH DETAILS
	LEGAL DE	SCRIPTION	A6.6	MISCELLANEOUS DETAILS
			A7.0	FLOOR FINISH PLAN
	REFER TO CIVIL DRAWINGS		A7.1 A7.2	REFLECTED CEILING PLAN FINISH SCHEDULE
			A7.2 A8.0	INTERIOR ELEVATIONS - DINING
			A8.1	INTERIOR ELEVATIONS - DINING
			A8.2	INTERIOR ELEVATIONS - KITCHEN & BOH
			A8.3 A8.4	RESTROOMS - ENLARGED PLAN & ELEVATIONS
			A8.4 5- ACCESSIBIL	KITCHEN DETAILS
			ADA1.0	ACCESSIBILITY REQUIREMENTS
			ADA1.1	
			6 - MECHANIC M1.0	AL MECHANICAL SCHEDULES AND NOTES
	PROJECT	DIRECTORY	M1.0 M2.0	DUCT AND DIFFUSER PLAN
			M2.1	MECHANICAL ROOF PLAN
	OWNER	ARCHITECT	M3.0	HOOD DRAWINGS PLANS AND SECTIONS
RENCE SYMBOLS	YUM! BRANDS, INC. 1900 COLONEL SANDERS LANE	GPD GROUP PROFESSIONAL CORPORATION 520 SOUTH MAIN ST, SUITE 2531	M4.0 7 - PLUMBING	MECHANICAL AND HOOD DETAILS
	LOUISVILLE, KY 40213	AKRON, OH 44311	P1.0	PLUMBING SCHEDULES AND NOTES
	CONTACT: SUE HARROD PHONE: 502-874-8584	CONTACT: MATT YANDA PHONE: 330-572-2484	P2.0	WASTE AND VENT PLAN
			P3.0 P4.0	WATER AND GAS PLAN PLUMBING ROUGH-IN PLAN
AX.X	CONSTRUCTION MANAGER	STRUCTURAL ENGINEER	P4.0	RISER DIAGRAMS
X DOOR NUMBER	TACO BELL OF AMERICA	GPD GROUP PROFESSIONAL CORPORATION	P6.0	PLUMBING DETAILS
$\langle x \rangle$ WINDOW NUMBER / DECOR ITEM	104 LISA COURT	520 SOUTH MAIN ST, SUITE 2531	8 - ELECTRICA	AL SITE ELECTRICAL PLAN
NUMBER	MCMURRY, PA 15317 CONTACT: CLINT LANGLEY	AKRON, OH 44311 CONTACT: MATT YANDA	E1.0 E2.0	ELECTRICAL PLAN ELECTRICAL ONE LINE DIAGRAMS AND LEGEND
X EXTERIOR WALL FINISH NUMBER	PHONE: 724-263-7757	PHONE: 330-572-2484	E2.1	ELECTRICAL SCHEDULES
	CIVIL ENGINEER	MECH / ELEA ENAINEER	E2.2	
	GIVIL ENGINEER GPD GROUP PROFESSIONAL CORPORATION	MECH. / ELEC. ENGINEER GPD GROUP PROFESSIONAL CORPORATION	E3.0 E3.1	ELECTRICAL POWER PLAN ENLARGED POWER PLAN AND DETAILS
X-000 EQUIPMENT NUMBER	520 SOUTH MAIN ST, SUITE 2531	520 SOUTH MAIN ST, SUITE 2531	E3.2	ELECTRICAL POWER ROOF PLAN
XX ROOM FINISH NUMBER	AKRON, OH 44311 CONTACT: MATT YANDA	AKRON, OH 44311 CONTACT: MATT YANDA	E3.3	ELECTRICAL DIMENSIONS PLAN
	PHONE: 330-572-2484	PHONE: 330-572-2484	E4.0 E5.0	LIGHTING PLAN AND DETAILS COMMUNICATIONS PLAN
INTERIOR ELEVATION DESIGNATION			E5.0 E6.0	TBCCB DETAILS
	GEOTECHNICAL ENGINEER		E6.1	TBCCB DETAILS
SHEAR WALL TYPE (STRUCTURAL)	CARDNO 46555 HUMBOLDT DRIVE	GPD GROUP PROFESSIONAL CORPORATION 520 SOUTH MAIN ST. SUITE 2531	E6.2	TBCCB DETAILS
	NOVI, MICHIGAN 48377	AKRON, OH 44311	E7.0 9 SCOPE OF V	
(XXX 000) EQUIPMENT / FIXTURE NUMBER (M.E.P.)	CONTACT: KARA GRISAMER PHONE: 248.669.5140	CONTACT: MATT YANDA PHONE: 330-572-2484	SW1.0	
INDICATES SUSTAINABLE DESIGN		CONTACTS		
	SEWER GENESEE COUNTY DRAIN COMMISSION - DIVISION OF	TELEPHONE AT&T		
SIGN. SEE ELEVATIONS	GENESEE COUNTY DRAIN COMMISSION - DIVISION OF WATER & WASTE SERVICES	CONTACT: ED HOFFMAN		
D ELECTRICAL SHEETS FOR SPECIFIC SYMBOLS	G-4610 BEECHER RD, FLINT, MI 48532	PHONE: 248-456-0830		
	CONTACT: LYNNETTE MEINZ PHONE: 810.732.7870			
			———————————————————————————————————————	
E Court St E Court St	WATER	ROADS		
Durt St of E Court St	GENESEE COUNTY DRAIN COMMISSION - DIVISION OF WATER & WASTE SERVICES	GENESEE COUNTY ROAD COMMISSION 211 WEST OAKLEY STREET		
Davison Farmers Market	G-4610 BEECHER RD, FLINT, MI 48532	FLINT, MI 48503-3995		
	CONTACT: LYNNETTE MEINZ	CONTACT: CORY JARBEAU PHONE: 810-767-4920		
tion to the second seco	PHONE: 810.732.7870			
	GAS	TRASH		
		SERVICE		
s Meijer 👽	CONTACT: GABRIEL POLETTI PHONE: 810-760-3485	STREET ADDRESS CITY, STATE ZIP CODE		
P Rd		CONTACT:		
Tractor Supply Co 🔍		PHONE:		
7931 Lapeer Road			I	

HEALTH GENESEE COUNTY HEALTH DEPARTMENT 630 S SAGINAW STREET, SUITE 4 FLINT, MI 48502 CONTACT: JEFF KOST PHONE: 810-257-3847

Charter Oaks Apartments **O** 

ELECTRIC

CONSUMERS ENERGY

PHONE: 810-760-3485

CONTACT: GABRIEL POLETTI

ood 🕥 🛛 Lapeer Rd



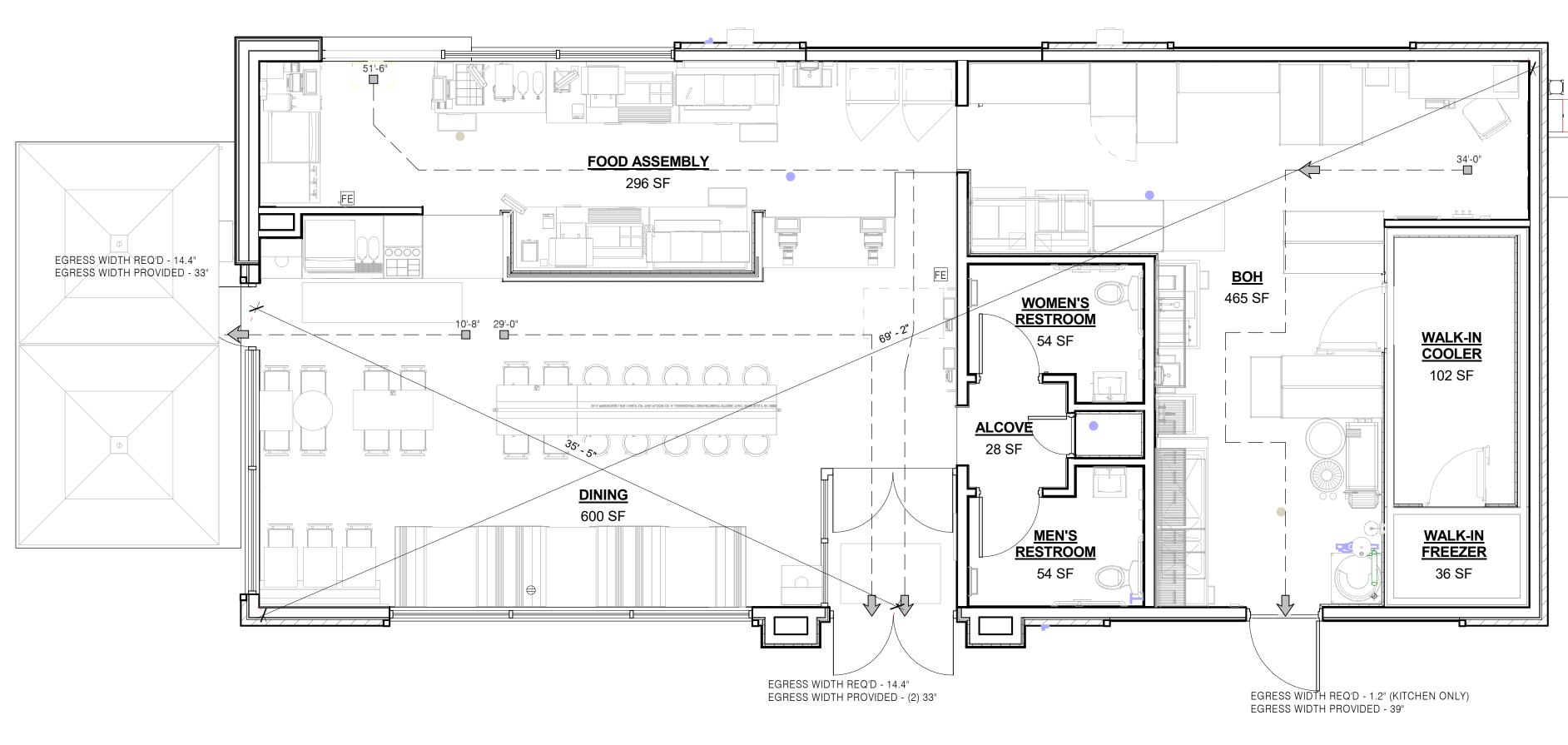
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AKRON, OH 4431

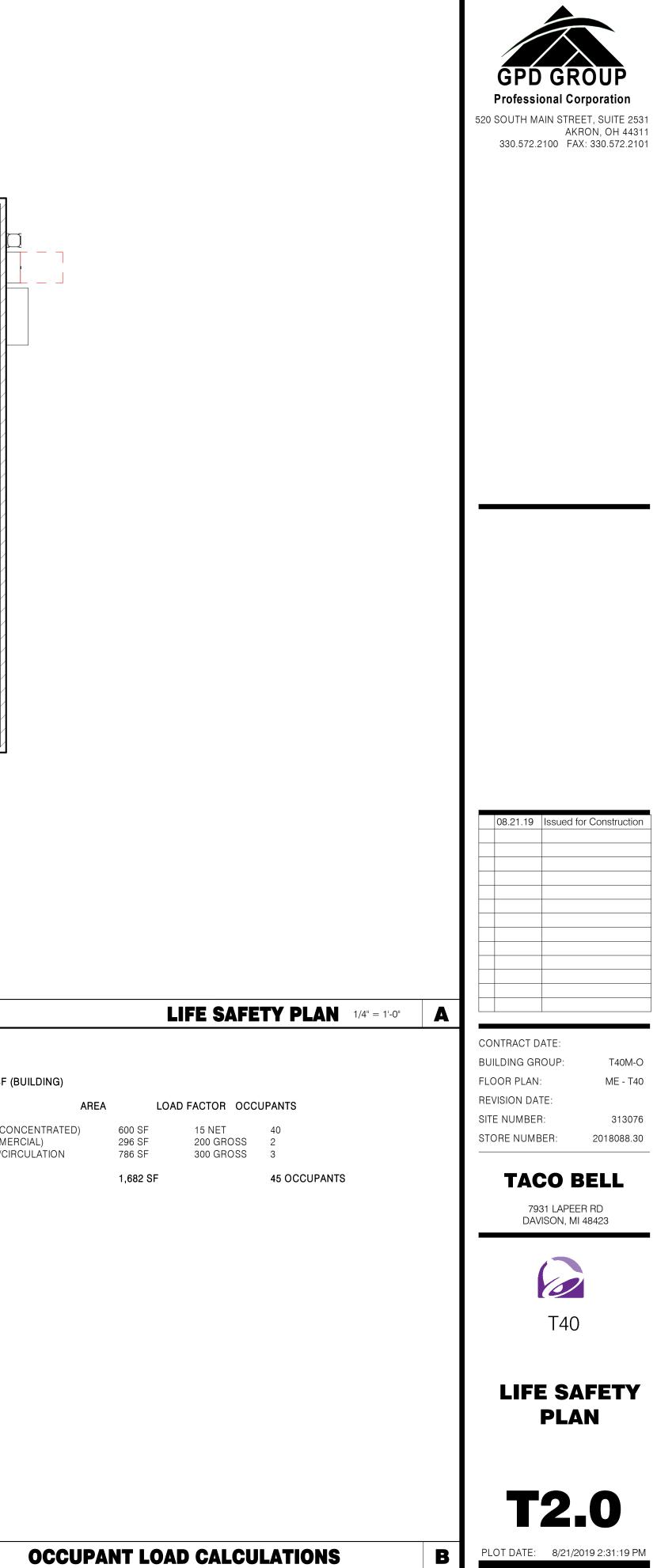
330.572.2100 FAX: 330.572.210



PLOT DATE: 8/21/2019 2:31:14 PM



LIFE SAFETY LEGEND	1	
		TOTAL
EXIT SIGNS		STORAGE/BOH/C
TRAVEL DISTANCE		ASSEMBLY (UNC) KITCHEN (COMM
		SPACE
		1,900 GROSS SF



						ER EXPLANATION:		
			Ш	Optional	l" designatio	ers below align with the credit numbers in the YUM Blueline system website. For further detail go to the following web on on this sheet rather than		d" and
			t			Blueline website. The system has been setup so that if you do the "Required" items on this list your restaurant will m	eet the YUMBlueline requirements.	
			2	2.	In the "User'	ference version of the YUM Blueline websiteat:  " <u>www.yumblueline.com</u> " " section choose " <u>General</u> " from the pull down menu word" section type in " <u>J212j*kla!</u> "		
	Nu Nu				64		4	
BUT ON STRUCT	P = Indicates that scope is already in the prototype drawings		BUTY .	at a	RUCTIC ME	<b>P</b> = Indicates that scope is already in the prototype drawings	BUIT ON STRUCTU	NISSION P = alread
FERSHELL DESIGN CONSTRU	<pre> * = Indicates "optional" item </pre>	FEAS	. The	COM2	COMIN	<ul> <li>* = Indicates "optional" item</li> </ul>	FERSHELL DESER CONSTRUCTION	* =
$\times$ $\times$ $\times$ $>$		$\square$	$\times$	$\times$				
	FORMALDEHYDE LIMITS		Р					1.3 CONTAMINATED SITES (Optional)
	MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION           PRODUCT         CURRENT LIMIT					<ul><li>37.1 RECYLING (Required)</li><li>A. Provide dedicated recycling space in the dining room, kitchen and site. Recycling should</li></ul>		If you are developing a site such as a gas 1.4 LOCATION COMMITMENT (Required)
	HARDWOOD PLYWOOD VENEER CORE     0.05					<ul> <li>A. Provide dedicated recycling space in the drining room, kitchen and site. Recycling should accommodate plastic, paper and oil.</li> <li>B. See the "Trash Enclosure Standards" posted on the Plans.YUM.com. Unless approved the "Large"</li> </ul>		Commit to stay in the same location for 10
	HARDWOOD COMPOSITE CORE     0.05     PARTICLE BOARD     0.09					version should be used.		1.5 PAY UTILITIES DIRECTLY (Required) If site is leased insure that Taco Bell will pa
	MEDIUM DENSITY FIBER BOARD     0.11     THIN MEDIUM DENSITY FIBERBOARD     0.13					37.2 COOKING OIL RECYCLING (Required) Collect cooking oil and provide to a third party vendor for recycling.		This will allow Taco Bell to track utility expo
	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.					<b>37.3 CARDBOARD RECYCLING (</b> Optional) Collect used corrugated cardboard and provide to a third party vendor for recycling.		2.2 PROXIMITY TO BUS STOP (Optional) Site is within 1/4 a mile of a bus stop.
	<ol> <li>2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/15"</li> </ol>					Conect used confugated cardboard and provide to a time party vehicle for recycling.	P	3.0 BICYCLE FACILITIES (Required) Provide dedicated bicycle lockable parking
	VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS (Cont.) Grams of VOC per liter of coating, less water & less exempt compounds					<ul> <li>38. AIR VENTILATION (Required)</li> <li>1. Provide air ventilation and exhaust rates per YUM BLUELINE</li> </ul>		storage for a minimum of two people. Sin
	SPECIALTY COATINGS CURRENT VOC LIMIT					2. Provide fresh air per YUM BLUELINE		5.1 PARKING (Optional) Do not exceed parking spaces required by
	ROOF COATINGS     S0     RUST PREVENTATIVE COATINGS     250					39.1 NO SMOKING (Required) A. Maintain a policy of not smoking within the restaurant B. Prohibit smoking within 25 feet of the restaurant		Provide 5% preferred parking for carpool
	SHELLACS     CLEAR 730					41.1 PROTECTION OF MATERIALS (Required)	P	7.2 WHITE ROOF (Required) Provide white PVC single membran
	OPAQUE     550     SPECIALTY PRIMERS, SEALERS & UNDER-COATINGS     100     STANIO					GC to provide a IAQ management plan with bid. Start with the prototype template and modify as required for site specific conditions.		9.0 CONSTRUCTION POLLUTION CONTROL (Re
	STAINS 250     STONE CONSOLIDANTS 450     TRAFFIC MARKING COATINGS 100					<ul> <li>A. Protect HVAC system</li> <li>B. Implement pollution source control measures</li> <li>C. Protect stored materials</li> </ul>		<ul> <li>A. Construction pollution control plan.</li> <li>B. Silt fencing</li> <li>C. Site vehicular access</li> </ul>
	TUB & TILE REFINISH COATINGS 420     WATERPROOFING MEBRANES 250					<ul> <li>D. Protect installed materials</li> <li>E. Maintain construction site housekeeping</li> </ul>		D. Wheel washing E. Covered loads
	WOOD COATINGS 275     WOOD PRESERVATIVES 350							F. Excavated soil storage G. Storm water drain, trench and pit d
	<ul> <li>ZINC-RICH PRIMERS 340</li> <li>Grams of VOC per liter of liter of coating, including water &amp; exempt compounds</li> </ul>					<b>42. LOW EMITTING MATERIALS (</b> Required <b>)</b> Finish materials shall comply with this section:		H. Temporary diversion ditches and be I. Dust control J. Exposed slope erosion control
	<ol> <li>Chains of voc per liter of iter of iter of coaling, including water a exempt compounds</li> <li>The specified limits remain in effect unless revised limits are listed in subsequent columns in the table.</li> <li>Values in this table are derived from those specified by the California arei resource board, architectural coatings</li> </ol>					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		K. Weekly contractor inspection
	suggested control measure, feb 1, 2008. more information is available from the air resources board.					management district rules apply: 1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall	P	10.2 Building Water (Required) Provide plumbing fixtures as specif
	COATING CATEGORY     CURRENT VOC LIMIT     FLAT COATINGS     50					comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits.	P	11.2 Process Water (Required)
	FLAT COATINGS 50     NON-FLAT COATINGS 100     NON-FLAT HIGH GLOSS COATINGS 150					<ol> <li>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.</li> </ol>		All water using equipment specified 12.1 Landscape Design (Required)
	SPECIALTY COATINGS CURRENT VOC LIMIT					Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in SCAQMD.		All landscape designs for new grou
	ALUMINUM ROOF COATINGS     400					Aerosol Paints and Coatings. Aerosol paints and coatings shall meet SCAQMD requirements.		<b>13.1 Irrigation Water (</b> Required <b>)</b> See landscape speA.Programmable irrigation controller.
	BASEMENT SPECIALTY COATINGS 400     BITUMINOUS ROOF COATINGS 50     BITUMINOUS ROOF COATINGS PRIMER 350					<b>Verification.</b> The General Contractor shall provided documentation to the CM. Documentation shall include, but is not limited to, the following:		<ul> <li>B. Separate irrigation zones</li> <li>C. Program maximum irrigation timing</li> <li>D. High-efficiancy irrigation sprinkler h</li> </ul>
	BOND BREAKER     S50     CONCRETE CURING COMPOUNDS     S50					<ol> <li>Manufacturer's product specification.</li> <li>Field verification of on-site product containers.</li> </ol>		E. Rain sensor
	CONCRETE / MASONRY SEALERS 100     DRIVEWAY SEALERS 50						P	15.3 Interior Lighting (Required) The current lighting specifications s
	DRY FOG COATINGS     150     FIRE RESISTIVE COATINGS     S50     FLOOR COATINGS     100					ADHESIVE VOC LIMITS ARCHITECTURAL ADHEASIVE APPLICATIONS CURRENT VOC LIMIT	P	16.2 Exterior Lighting (Required) The current lighting specifications s
	FORM-RELEASE COMPOUNDS     HIGH TEMPERATURE COATINGS     420					CERAMIC TILE     65	P	17.2 Sign Illumination (Required)
	<ul> <li>INDUSTRIAL MAINTENANCE COATINGS</li> <li>LOW SOLIDS COATINGS</li> <li>120</li> </ul>					<ul> <li>DRYWALL, PANEL &amp; COVE BASE 50</li> <li>MULTI-PURPOSE 70</li> </ul>		The current signage specifications
	MAGNESITE CONCRETE COATINGS 450     MASTIC TEXTURE COATINGS 100     PRETREATMENT WASH PRIMER 350					SINGLE PLY ROOFING 250	P	18.1 Exhaust Hoods (Required) The current 6'-4" back shelf hood d
	<ul> <li>PRETREATMENT WASH PRIMER</li> <li>PRIMERS, SEALERS AND UNDERCOATS</li> <li>REACTIVE PENETRATING SEALERS</li> <li>350</li> </ul>					PVC WELDING     SPECIALTY APPLICATIONS     CURRENT VOC LIMIT     510	P	19.1 LICENSED HVAC ENGINEER (Required) Use a licensed HVAC engineer for s
	RECYCLED COATINGS     250					<ul> <li>CPVC WELDING 490</li> <li>ABS WELDING 325</li> </ul>	P	19.2 OPTIMIZE HVAC DESIGN (Required)
	43.1 CONTROLLED BUILDING MATERIAL (Required)					PLASTIC CEMENT WELDING 250     ADHESIVE PRIMER FOR WELDING 550		Optimize HVAC design system per
	<ul> <li>A. If fluorescent lamps are used they shall not exceed 80 picograms per lumen hour.</li> <li>B. Maintain the Taco Bell lamps policy of only using LED lamps in all building, site and sign lighting.</li> </ul>					CONTACT ADHESIVE 80     SPECIAL PURPOSE CONTACT ADHESIVE 250     STRUCTURAL WOOD MEMBER ADHESIVE 140		20.0 HVAC EFFICIENCY (Required) Use the EFLEX RTU for the kitchen current prototype ground-up restau
	45.1 THERMAL COMFORT (Required) Insure that the HVAC system provides the following comfort conditions, on average:					• TOP & TRIM ADHESIVE 250	P	21.0 ECONOMIZER PERFORMANCE (Required)
	Store Occupation Mode Temp Setpoints Max Relative					SUBSTRATE SPECIFIC APPLICATIONS CURRENT VOC LIMIT		Use an economizer provided with t
	Humidity Occupied Dining Cooling 73-78 F 60%					<ul> <li>METAL TO METAL 30</li> <li>PLASTIC FOAMS 50</li> <li>POROUS MATERIALS (EXCEPT WOOD) 50</li> </ul>		22.1. Hot Water Efficiency (Required) Use the water heater specified in th
	Kitchen Cooling 68-73 F					<ul> <li>WOOD</li> <li>FIBERGLASS</li> </ul>	P	23.1 REFRIGERANTS (Required) Do not used banned refrigerants. I
	Dining Heating68-73 F60%Kitchen Heating66-71 F					SEALANT VOC LIMITS	P	24.1 REFRIGERATION (Required)
	Unoccupied Cooling (minimum) 80 F or off					(less water and less exempt compounds in grams per liter) SEALANT CURRENT LIMIT		A. Use the current specified walk-in co B. Use the current specified reach-in f C. Use the current specified ice make
	Heating (maximum) 60 F					ARCHITECTURAL 250	P	25.1 COOKING & WASHING EQUIPMENT (Require
						MARINE DECK 760     NON-MEMBRANE ROOF 300		A. Use the current specified fryer in th B. Use the current specified 3-comp s
	<ul> <li>46.1 THERMAL VERIFICATION (Required)</li> <li>A. <u>At the 11 month warrantee</u> the CM shall administer the "Thermal Comfort Verification Survey" with a response rate of 75% minimum</li> </ul>					ROADWAY     SINGLE PLY ROOF MEMBRANE     450	P	28.1 BASIC LIGHTING & THERMAL CONTROLS (R
	<ul> <li>75% minimum.</li> <li>B. If 20% or more of the responders are dissatisfied then corrective actions shall take corrective action until less than 20% are dissatisfied.</li> </ul>					OTHER 420 SEALANT PRIMER CURRENT LIMIT		<ul> <li>A. Provide programable thermostatss</li> <li>B. Provide temperature sensor locatio</li> <li>C. Insure proper operation of ventilation</li> </ul>
	C. If corrective action is required go back and insure that the store meets #28 Thermal Comfort standards.					• ARCHITECTURAL		D. Provide lighting controls for exterior E. Provide lighting controls for exterior
	48.1 LEED TEAM MEMBER (Required) Each consultant shall have a LEED AP member on each projects site specific team.					NON-POROUS250PORUS775		28.3 Occupancy Sensors (Optional)
	49.1 COMMISSIONING (Required) Commissioning requires understanding the owners design intent prior to starting site specific design so they can					<ul> <li>MODIFIED BITUMINOUS</li> <li>MARINE DECK</li> <li>OTHER</li> <li>750</li> </ul>		Provide ultrasonic/infared) occupar 33.1 Recycled Content (Required)
	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.							Use materials that have a minimum
	A. The consultant should modify the Owner's Prototype Requirements with the site specific information and insure that							36.1 Construction Waste Management (Required) A. The contractor shall recycle a minin B. The general contractor shall provid
	<ul> <li>the site specific design meets or exceeds the Owner's Requirements prior to starting design.</li> <li>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.</li> </ul>							B. The general contractor shall provide can use the starter form posted on
	· ·							

#### Indicates that scope is ady in the prototype drawings

Indicates "optional" item

s station that requires remedial work check this box.

0 years or more.

bay the utilities directly rather than allowing the landlord to pay them. penses easily.

ng for a minimum of two bicycles. Provide changing area and lockable Single occupancy toilet rooms will suffice as a changing area.

by local zoning. See Credit 5

ane roof material.

Required)

drain protection berms

ified in the prototype drawings, specifications and equipment model.

ed in the prototype equipment schedule shall be used for all ground-up restaurants.

ound-up restaurants shall follow the Landscape Standards posted on the Plans.YUM.com website. ecifications

heads

shall be used for all ground-up prototype restaurants.

shall be used for all ground-up prototype restaurants.

s shall be used for all ground-up prototype restaurants.

design and equipment placement as shown in the ground-up prototype restaurant shall be used.

r system site adaptation.

er YUM Blueline Standards

n and the Partial VAV RTU for the dining room and install per the aurant.

the EFLEX and Partial VAV RTUs by Trane.

the Taco Bell prototype.

If you use any modern RTU you will not use banned refrigerants

cooler/freezer. See Credit 24 n freezer. See Credit 24 kers. See Credit 24

red) he prototype. sinkin the prototype.

(Required) sspecified in the prototype ons and specifications on plan ion equiment operations or zones or zones.

ancy sensors for 25% or move of interior lighting.

m of 10% recycled materials. (Note: Getting the calculations in process)

imum of 50% of all construction waste and provide records per YUM Blueline. 75% is preferred. ide a construction waste management plan to the construction manager with their bid submittal. They on the Plans.YUM.com website in the Green Playbook section.



AKRON, OH 44311 330.572.2100 FAX: 330.572.2101

08.21.19	Issued for Construction

CONTRACT DATE:	
BUILDING GROUP:	T40M-O
FLOOR PLAN:	ME - T40
REVISION DATE:	
SITE NUMBER:	313076
STORE NUMBER:	2018088.30

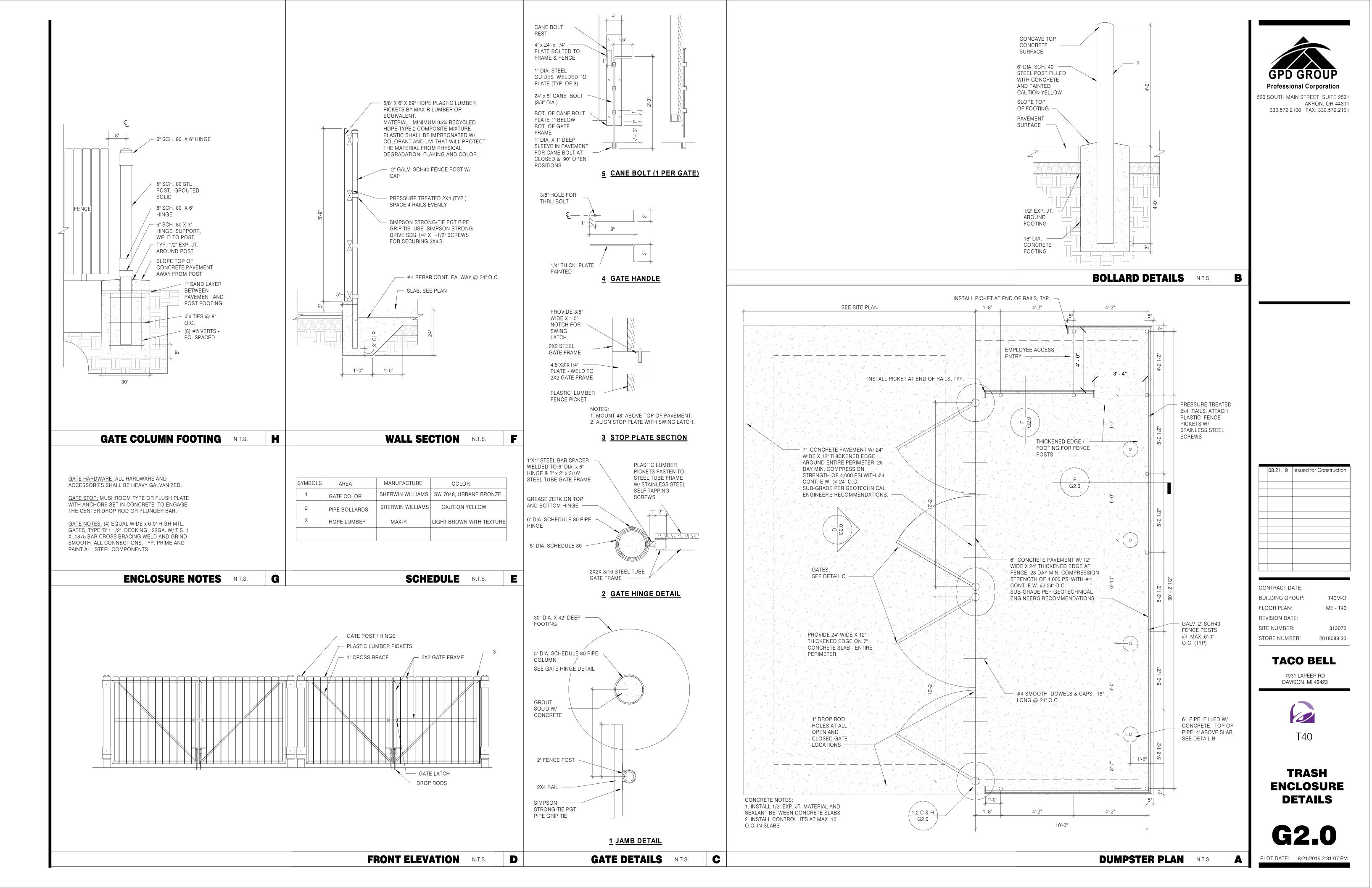












TOTAL DISTURBED AREA = 0.87 ACRES

### LEGAL DESCRIPTION:

LAND SITUATED IN THE TOWNSHIP OF DAVIDSON, COUNTY OF GENESEE, STATE OF MICHIGAN, DESCRIBED AS:

PART OF THE SOUTHEAST 1/4 AND THE NORTHEAST 1/4 OF SECTION 18, TOWNSHIP 7 NORTH, RANGE 8 EAST, TOWNSHIP OF DAVIDSON, GENESEE COUNTY, MICHIGAN, BEGINNING AT THE EAST 1/4 CORNER OF SECTION 18; THENCE SOUTH 01 DEGREE 34 MINUTES 00 SECONDS EAST 202.20 FEET TO THE CENTER LINE OF LAPEER ROAD; THENCE SOUTH 88 DEGREES 29 MINUTES 00 SECONDS WEST, ALONG SAID CENTERLINE 900.00 FEET; THENCE NORTH 01 DEGREE 31 MINUTES 00 SECONDS WEST, 1271.11 FEET TO THE SOUTHERLY RIGHT OF WAY LINE OF I-69 EXPRESSWAY; THENCE ALONG SAID SOUTHERLY RIGHT OF WAY LINE OF I-69 EXPRESSWAY; THENCE ALONG SAID SOUTHERLY RIGHT OF WAY LINE SOUTH 72 DEGREES 42 MINUTES 12 SECONDS EAST, 57.79 FEET AND SOUTH 54 DEGREES 27 MINUTES 12 SECONDS EAST 499.35 FEET AND NORTH 88 DEGREES 16 MINUTES 10 SECONDS EAST 273.85 FEET AND SOUTH 46 DEGREES 43 MINUTES 50 SECONDS EAST, 99.00 FEET AND SOUTH 01 DEGREE 43 MINUTES 50 SECONDS EAST 280.69 FEET (280.00 FEET MEASURED); THENCE NORTH 88 DEGREES 29 MINUTES 05 SECONDS EAST 75 FEET TO THE POINT OF BEGINNING.

BASED ON A FIELD SURVEY, ALL OF THE ABOVE IS BEING DESCRIBED AS:

PART OF THE SOUTHEAST 1/4 AND THE NORTH EAST 1/4 OF SECTION 18, TOWNSHIP 7 NORTH, RANGE 8 EAST, TOWNSHIP OF DAVIDSON, GENESEE COUNTY, MICHIGAN, DESCRIBED AS FOLLOWS: BEGINNING AT THE EAST 1/4 CORNER OF SECTION 18; THENCE SOUTH 01 DEGREE 55 MINUTES 12 SECONDS EAST 202.20 FEET TO THE CENTER LINE OF LAPEER ROAD; THENCE SOUTH 88 DEGREES 09 MINUTES 35 SECONDS WEST, ALONG SAID CENTERLINE 900.00 FEET; THENCE NORTH 01 DEGREE 34 MINUTES 24 SECONDS WEST, 1275.50 FEET TO THE SOUTHERLY RIGHT OF WAY LINE OF I-69 EXPRESSWAY (WIDTH VARIES); THENCE ALONG SAID SOUTHERLY RIGHT OF WAY LINE, SOUTH 72 DEGREES 42 MINUTES 12 SECONDS EAST, 57.79 FEET AND SOUTH 54 DEGREES 27 MINUTES 12 SECONDS EAST 499.35 FEET AND NORTH 88 DEGREES 16 MINUTES 10 SECONDS EAST, 273.85 FEET AND SOUTH 46 DEGREES 43 MINUTES 50 SECONDS EAST, 99.00 FEET TO THE WESTERLY LINE OF IRISH ROAD (WIDTH VARIES); THENCE ALONG SAID WESTERLY LINE, SOUTH 01 DEGREE 43 MINUTES 50 SECONDS EAST, 400.00 FEET AND NORTH 88 DEGREES 16 MINUTES 10 SECONDS EAST, 25.00 FEET AND SOUTH 01 DEGREE 43 MINUTES 50 SECONDS EAST, 400.00 FEET AND NORTH 88 DEGREES 16 MINUTES 10 SECONDS EAST, 25.00 FEET AND SOUTH 01 DEGREE 43 MINUTES 50 SECONDS EAST, 280.00 FEET; THENCE NORTH 88 DEGREES 29 MINUTES 05 SECONDS EAST, 75.00 FEET TO THE EAST 1/4 CORNER OF SAID SECTION 18 AND THE POINT OF BEGINNING.

# IMPROVEMENT PLANS TACCO BELL 7931 LAPEER RD

DAVISON, MI 48423



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DEVELOPER INFO	RMATION
DEVELOPER: CONTACT:	IRISH ROAD, LLC LAITH JONNA
ADDRESS:	2360 ORCHARD LAKE R SYLVAN LAKE, MI 48320
PHONE:	248-683-7355

TACO BELL INFORMATION

9, STE 101	CORPORATION: CONTACT: ADDRESS: PHONE:	TACO BELL OF AMERICA, LLC CLINT LANGLEY 1300 COLONEL SANDERS LN LOUISVILLE, KY 40213 724-263-7757
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#### COUNTY: JURISDICTION: SECTION NUMBER:

GENESSE COUNTY DAVISON TOWNSHIP 18

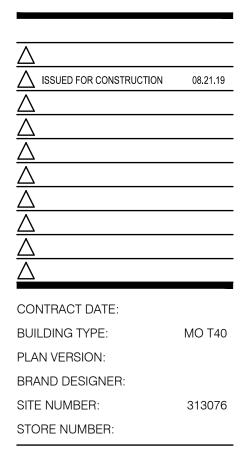
### SURVEYOR'S NOTES:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPROMISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY AREA LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES OTHER THAN THE STRUCTURE INVENTORY SHOWN HEREON.

GCDC-WWS CONTRACTOR ALERT STATEMENT:

THIS PROJECT HAS BEEN DESIGNED IMPLEMENTING THE LATEST GCDC-WWS DESIGN SPECIFICATIONS (7TH EDITION). CAREFULLY REVIEW THE NOTES, DETAILS, AND DESIGN PRIOR TO SUBMITTING A BID. FULL COMPLIANCE WITH THE STANDARDS WILL BE REQUIRED.



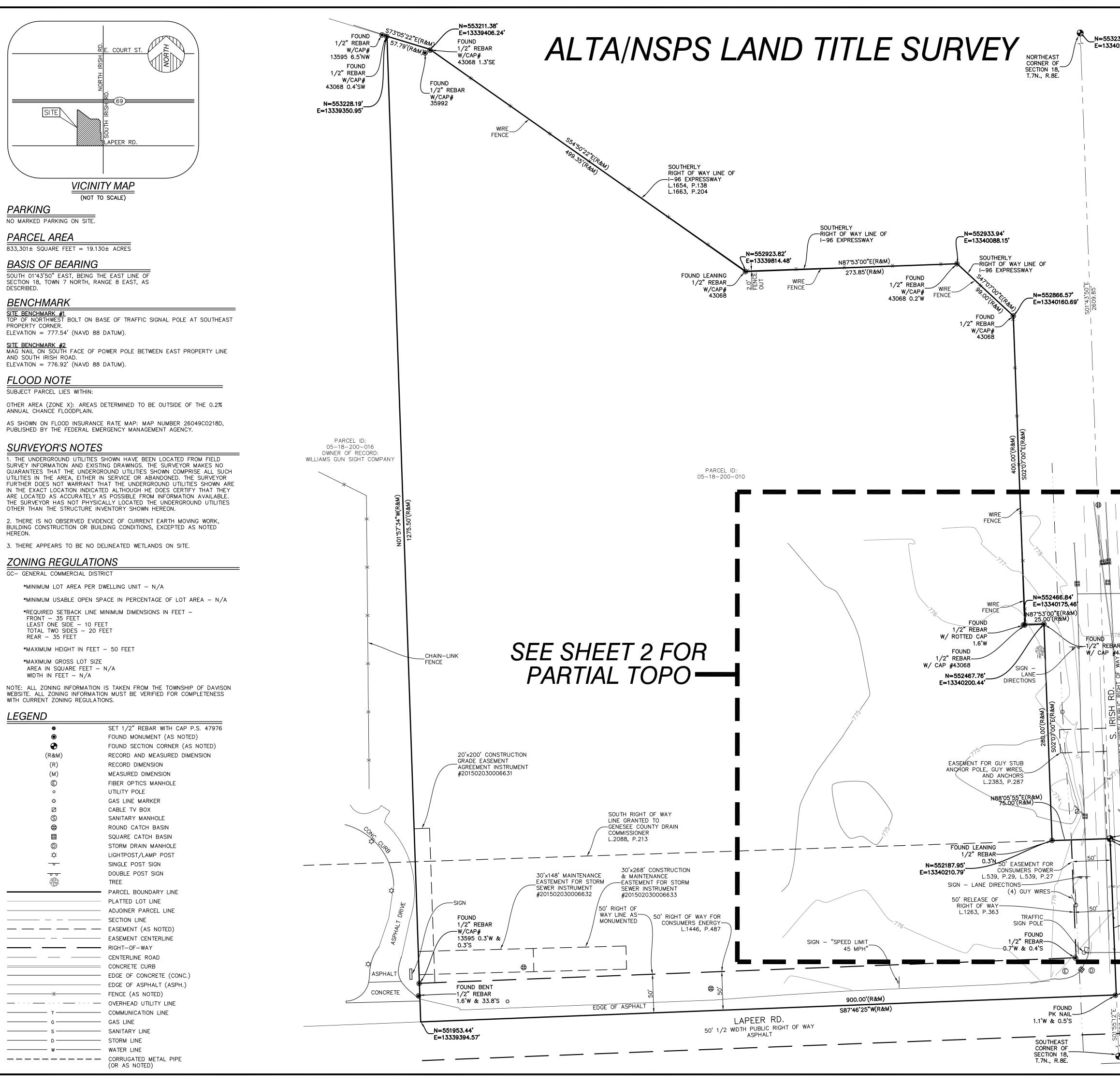


### TACO BELL









GRAPHIC SCALE

( IN FEET 1 inch = 60 ft.

PROPERTY DESCRIPTION LAND SITUATED IN THE TOWNSHIP OF DAVISON, COUNTY OF GENESEE, STATE OF MICHIGAN, DESCRIBED AS:

PART OF THE SOUTHEAST 1/4 AND THE NORTHEAST 1/4 OF SECTION 18, TOWNSHIP 7 NORTH, RANGE 8 EAST, TOWNSHIP OF DAVISON, GENESEE COUNTY, MICHIGAN, BEGINNING AT THE EAST 1/4 CORNER OF SECTION 18; THENCE SOUTH 01 DEGREE 34 MINUTES 00 SECONDS EAST 202.20 FEET TO THE CENTER LINE OF LAPEER ROAD; THENCE SOUTH 88 DEGREES 29 MINUTES 00 SECONDS WEST, ALONG SAID CENTERLINE 900.00 FEET; THENCE NORTH 01 DEGREE 31 MINUTES 00 SECONDS WEST, 1271.11 FEET TO THE SOUTHERLY RIGHT OF WAY LINE OF I-69 EXPRESSWAY; THENCE ALONG SAID SOUTHERLY RIGHT OF WAY LINE SOUTH 72 DEGREES 42 MINUTES 12 SECONDS EAST, 57.79 FEET AND SOUTH 54 DEGREES 27 MINUTES 12 SECONDS EAST 499.35 FEET AND NORTH 88 DEGREES 16 MINUTES 1 SECONDS EAST 273.85 FEET AND SOUTH 46 DEGREES 43 MINUTES 50 SECONDS EAST. 99.00 FEET AND SOUTH 01 DEGREE 43 MINUTES 50 SECONDS EAST 400.00 FEET AND NORTH 88 DEGREES 16 MINUTES 10 SECONDS EAST 25.00 FEET AND SOUTH 01 DEGREE 43 MINUTES 50 SECONDS EAST 280.69 FEET (280.00 FEET MEASURED); THENCE NORTH 88 DEGREES 29 MINUTES 05 SECONDS EAST 75 FEET TO THE POINT OF BEGINNING.

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#### TITLE REPORT NOTE

ONLY THOSE EXCEPTIONS CONTAINED WITHIN THE CHICAGO TITLE INSURANCE COMPANY COMMITMENT No. 251056854NTS, DATED MAY 09, 2018, AND RELISTED BELOW WERE CONSIDERED FOR THIS SURVEY. NO OTHER RECORDS RESEARCH WAS PERFORMED BY THE CERTIFYING SURVEYOR.

3. RIGHT(S) OF WAY AND/OR EASEMENT(S) AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT: GRANTED TO: CONSUMERS POWER COMPANY (NOW KNOWN AS CONSUMERS ENERGY). RECORDING NO: LIBER 539, PAGE 29 AND IN LIBER 539, PAGE 27. (AS SHOWN)

4. RIGHT(S) OF WAY AND/OR EASEMENT(S) AND RIGHTS INCIDENTAL THERETO, AS GRANTÉD IN A DOCUMENT: GRANTED TO: COUNTY OF GENESEE FOR HIGHWAY PURPOSES, AS CONTINUED IN RELEASE OF RIGHT OF WAY. RECORDING NO: DEED LIBER 1268, PAGE 363. (AS SHOWN)

5. RIGHT(S) OF WAY AND/OR EASEMENT(S) AND RIGHTS INCIDENTAL THERETO, AS GRANTÉD IN A DOCUMENT: GRANTED TO: CONSUMERS POWER COMPANY (NOW KNOWN AS CONSUMERS ENERGY). RECORDING NO: DEED LIBER 1446, PAGE 487. (AS SHOWN)

6. EASEMENTS AND THE TERMS, CONDITIONS AND PROVISIONS THEREOF WHICH ARE RECITED IN DECLARATION OF TAKINGS RECORDED IN DEED LIBER 1654. PAGE 138 AND IN DEED LIBER 1663, PAGE 204. (AS SHOWN)

7. RIGHT(S) OF WAY AND/OR EASEMENT(S) AND RIGHTS INCIDENTAL THERETO, AS GRANTÉD IN A DOCUMENT: GRANTED TO: GENESEE COUNTY DRAIN COMMISSIONER. RECORDING NO: DEED LIBER 2088, PAGE 213. (SPECIFIC LOCATION NOT DESCRIBED)

8. RIGHT(S) OF WAY AND/OR EASEMENT(S) AND RIGHTS INCIDENTAL THERETO, AS GRANTÉD IN A DOCUMENT: GRANTED TO: CONSUMERS POWER COMPANY (NOW KNOWN AS CONSUMERS ENERGY) RECORDING NO: DEED LIBER 2383, PAGE 287. (AS SHOWN)

9. 20x200 FOOT CONSTRUCTION GRADE EASEMENT AGREEMENT BY AND BETWEEN RUBY REAL ESTATE, LLC, A SUBSIDIARY OF TALMER BANK AND TRUST AND WILLIAMS GUN SIGHT COMPANY RECORDING DATE: FEBRUARY 3, 2015 RECORDING NO .: INSTRUMENT NO. 201502030006631. (AS SHOWN)

10. 30x148 FOOT PERMANENT MAINTENANCE EASEMENT FOR STORM SEWER EASEMENT AGREEMENT BY AND BETWEEN RUBY REAL ESTATE, LLC, A SUBSIDIARY OF TALMER BANK AND TRUST AND WILLIAMS GUN SIGHT COMPANY RECORDING DATE: FEBRUARY 3, 2015 RECORDING NO .: INSTRUMENT NO. 201502030006632. (AS SHOWN)

11. 30X268 FOOT STORM SEWER CONSTRUCTION EASEMENT AGREEMENT BY AND BETWEEN RUBY REAL ESTATE, LLC, A SUBSIDIARY OF TALMER BANK AND TRUST AND WILLIAMS GUN SIGHT COMPANY RECORDING DATE: FEBRUARY 3, 2015

RECORDING NO .: INSTRUMENT NO. 201502030006633. (NULL AND VOID) 12. 30X268 FOOT STORM SEWER CONSTRUCTION AND MAINTENANCE EASEMENT AGREEMENT BY AND BETWEEN RUBY REAL ESTATE, LLC, A SUBSIDIARY OF TALMER BANK AND TRUST AND WILLIAMS GUN SIGHT COMPANY

RECORDING DATE: FEBRUARY 27, 2015 RECORDING NO .: INSTRUMENT NO. 201502270013202. (AS SHOWN) SURVEYOR'S CERTIFICATION

TO TACO BELL OF AMERICA, LLC, A DELAWARE LIMITED LIABILITY COMPANY,

GPD GROUP, AND THE CHICAGO TITLE INSURANCE COMPANY:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDED ITEMS 1, 2, 3, 4, 5, 6A, 6B, 7A, 7B1, 8, 9, 10A, 11, 13, 18, 19, AND 20 OF TABLE A, THEREOF. THE FIELD WORK WAS COMPLETED ON MAY 16, 2018.

DATE OF PLAT OR MAP: MAY 17, 2018

m

DRW. BY: JDM

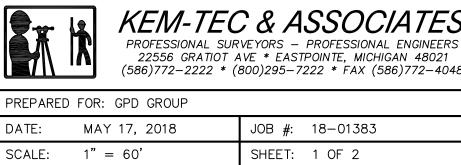


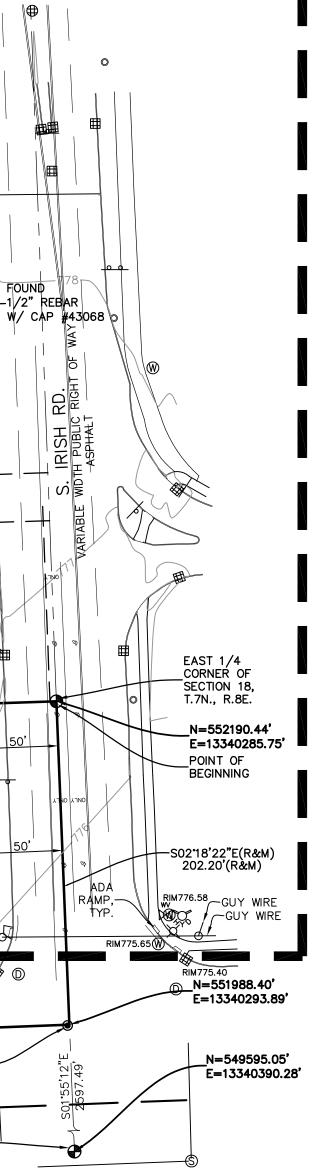
REV.: JULY 19, 2018

PROFESSIONAL SURVEYOR MICHIGAN LICENSE NO. 47976

ANTHONY T. SYCKO, JR., P.S.

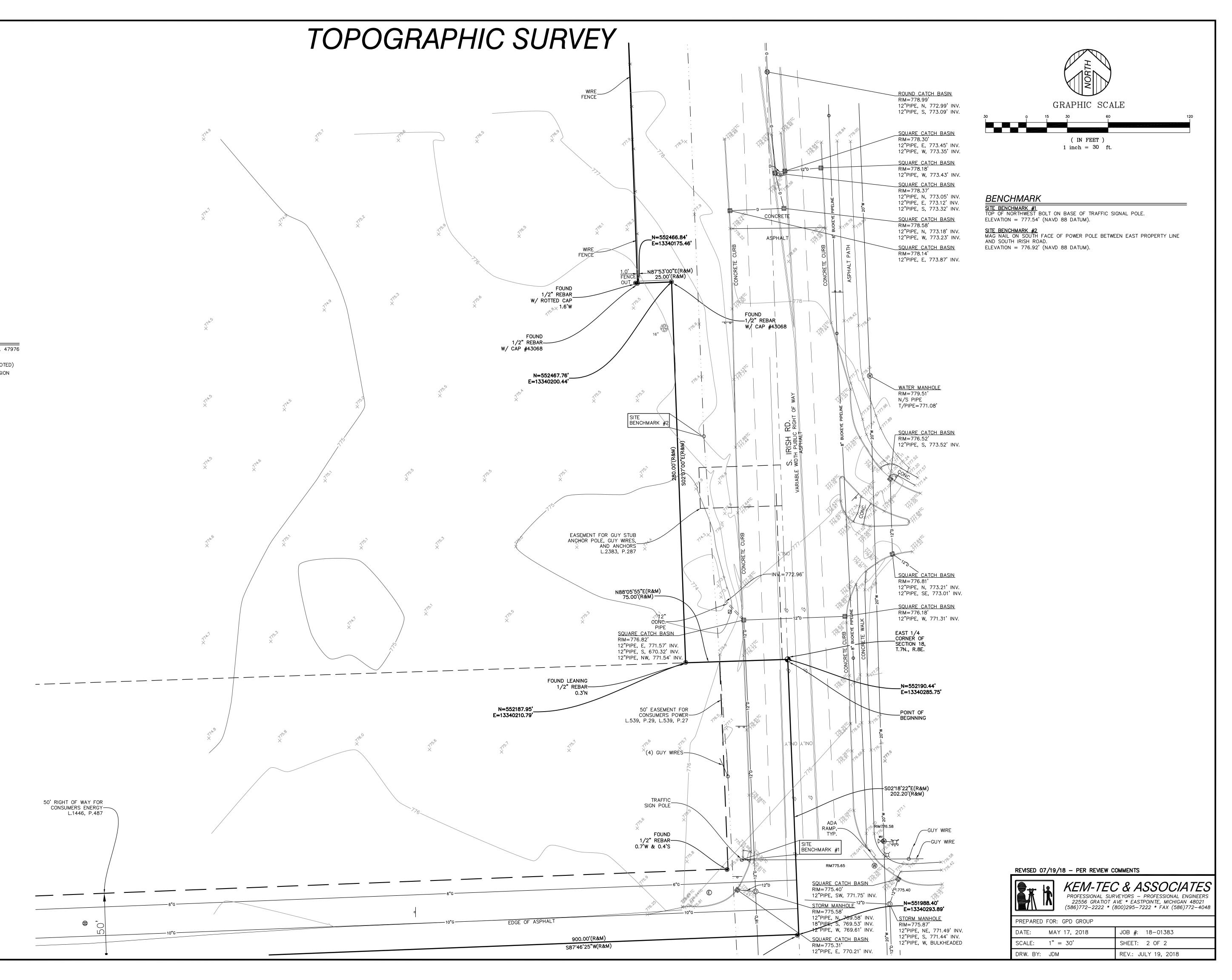
**REVISED 07/19/18 – PER REVIEW COMMENTS** REVISED 06/06/18 – UPDATED TITLE WORK





## LEGEND

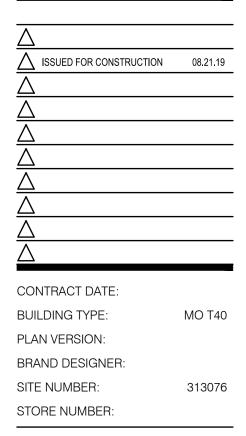
•	SET 1/2" REBAR WITH CAP P.S. 4
۲	FOUND MONUMENT (AS NOTED)
$\bullet$	FOUND SECTION CORNER (AS NOTE
(R&M)	RECORD AND MEASURED DIMENSIO
(R)	RECORD DIMENSION
(M)	MEASURED DIMENSION
Ē	FIBER OPTICS MANHOLE
0	UTILITY POLE
0	GAS LINE MARKER
	CABLE TV BOX
S	SANITARY MANHOLE
$\oplus$	ROUND CATCH BASIN
⊞	SQUARE CATCH BASIN
$\odot$	STORM DRAIN MANHOLE
<b>\$</b>	LIGHTPOST/LAMP POST
<u> </u>	SINGLE POST SIGN
	DOUBLE POST SIGN
花	TREE
	PARCEL BOUNDARY LINE
	PLATTED LOT LINE
	ADJOINER PARCEL LINE
	SECTION LINE
	EASEMENT (AS NOTED)
	EASEMENT CENTERLINE
	RIGHT-OF-WAY
	CENTERLINE ROAD
	CONCRETE CURB
X	FENCE (AS NOTED)
· · · · · · · · · · · ·	OVERHEAD UTILITY LINE
тт	COMMUNICATION LINE
G	GAS LINE
S	SANITARY LINE
D	STORM LINE
w	WATER LINE
	CORRUGATED METAL PIPE (OR AS NOTED)



DEMOLITION NOTES	GENERAL PLAN NOTES	GRADING PLAN NOTES	UTILITY NOTES (CONTINUED)
<ol> <li>DEMOLITION INCLUDES THE FOLLOWING:</li> <li>1.A. TRANSFER BENCHMARK CONTROL TO NEW LOCATIONS OUTSIDE THE DISTURBED AREA</li> </ol>	1. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO	1. BEFORE STARTING GRADING OPERATIONS, SEE SHEET C-131 THROUGH C-134, STORMWATER POLLUTION PREVENTION PLAN NOTES AND DETAILS (SWPP).	SANITARY SEWER NOTES
<ul> <li>PRIOR TO COMMENCING DEMOLITION OPERATIONS (WHEN APPLICABLE).</li> <li>1.B. DEMOLITION AND REMOVAL OF SITE IMPROVEMENTS.</li> <li>1.C. DISCONNECTING, CAPPING OR SEALING, AND ABANDONING/REMOVING SITE UTILITIES IN</li> </ul>	CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.	<ol> <li>BEFORE STARTING GRADING OPERATIONS, SEE LANDSCAPE PLAN L-101 AND SOILS REPORT FOR TREATMENT OF EXISTING GRADE.</li> </ol>	1. SANITARY SEWER LATERAL INVERT AT BUILDING SHALL BE A MINIMUM OF 4' BELOW FINISH FLOOR.
<ul><li>PLACE (WHICHEVER IS APPLICABLE).</li><li>2. REMOVE AND LEGALLY DISPOSE OF ITEMS EXCEPT THOSE INDICATED TO BE REINSTALLED, CALVARED OF TO BE MANY</li></ul>	2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY. THE SOILS	3. PRIOR TO SITE CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL INSTALL ALL SWPP MEASURES TO PROTECT EXISTING DRAINAGE FACILITIES. CONTRACTOR SHALL PREVENT	<ol> <li>CLEAN-OUTS TO BE INSTALLED AT ALL PIPE BENDS AND ANGLES, UNLESS A MANHOLE IS INDICATED.</li> <li>THE CONTRACTOR SHALL HIRE A LOCAL PLUMBER LICENSED WITH THE LOCAL SANITARY</li> </ol>
<ol> <li>SALVAGED, OR TO REMAIN.</li> <li>REMOVE, REINSTALL, AND RELOCATE: REMOVE ITEMS INDICATED; CLEAN, SERVICE, AND OTHERWISE PREPARE THEM FOR REUSE; STORE AND PROTECT AGAINST DAMAGE. REINSTALL</li> </ol>	REPORT AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION/PROJECT MANAGER OF ANY DISCREPANCY BETWEEN SOILS REPORT AND PLANS. ETC.	<ul> <li>SILTATION FROM LEAVING THE SITE AT ALL TIMES.</li> <li>4. STRIP BUILDING AND PAVEMENT AREAS OF ALL ORGANIC TOPSOILS. STOCKPILE SUITABLE TOPSOILS FOR RESPREADING ONTO LANDSCAPE AREAS. ALL EXCESS EXCAVATED</li> </ul>	JURISDICTION TO MAKE ALL CONNECTIONS FROM THE BUILDING TO THE EXISTING DEVELOPER SEWER MAIN. CONTRACTOR SHALL SECURE A SANITARY SEWER CONNECTION PERMIT PRIOR TO ANY CONSTRUCTION. THE CONTRACTORS PRICE FOR SANITARY SEWER
<ul> <li>4. EXISTING TO REMAIN: PROTECT ITEMS INDICATED TO REMAIN AGAINST DAMAGE AND SOILING</li> <li>TUPOLICULATION MULTIN DEPARTMENTED BY THE ENGINEER ITEMS MAY BE</li> </ul>	3. THE A.L.T.A. SURVEY BY KEM-TEC & ASSOCIATES, DATED MAY 17, 2018 SHALL BE CONSIDERED A PART OF THESE PLANS. THE G.C. IS RESPONSIBLE FOR LOCATING IMPROVEMENTS PER	MATERIALS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE. SEE GEOTECHNICAL REPORT FOR STRIPPING AND TOPSOIL REQUIREMENTS.	INSTALLATION SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE LOCAL SANITARY JURISDICTION TO PROVIDE A COMPLETE WORKING SERVICE. COORDINATE ALL WORK WITH LYNNETTE MEINZ (GENESEE COUNTY DRAIN COMMISSION - DIVISION OF WATER & WASTE SERVICES) @ 810-732-7870.
THROUGHOUT CONSTRUCTION. WHEN PERMITTED BY THE ENGINEER, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION THROUGHOUT CONSTRUCTION AND THEN CLEANED AND REINSTALLED IN THEIR ORIGINAL LOCATIONS.	<ol> <li>THESE PLANS.</li> <li>4. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THE PLAN ARE BASED ON FIELD SURVEYS AND CITY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO</li> </ol>	5. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT BY BRANDENBROOKE INVESTMENT CORP., DATED MAY 8, 2015 AND REFERENCED IN THIS PLAN SET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL SOFT. YIELDING OR	4. ALL SANITARY PIPE MATERIAL AND JOINTS PER GCDC STANDARD NOTES ON SHEET C-504.
<ol> <li>CONTRACTOR SHALL SCHEDULE DEMOLITION ACTIVITIES WITH THE CONSTRUCTION/PROJECT MANAGER INCLUDING THE FOLLOWING:</li> <li>DETAILED SEQUENCE OF DEMOLITION AND REMOVAL WORK, WITH STARTING AND ENDING DATES FOR EACH ACTIVITY.</li> </ol>	CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE.	UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. UNLESS OTHERWISE SPECIFIED IN THE PLANS, SPECIFICATIONS, OR SOILS REPORT THE SITE GRADING, EXCAVATION, AND EMBANKMENT SHALL BE IN ACCORDANCE	WATER NOTES         1.       WATER SERVICE MATERIALS SHALL BE COPPER TYPE "K" UNLESS OTHERWISE NOTED ON PLANS. DIAMETER SHALL BE AS NOTED ON THESE PLANS (SHEET C-141) AND SHALL BE
<ul> <li>5.B. DATES FOR SHUTOFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES.</li> <li>5.C. IDENTIFY AND ACCURATELY LOCATE UTILITIES AND OTHER SUBSURFACE STRUCTURAL, ELECTRICAL, OR MECHANICAL CONDITIONS.</li> </ul>	5. ALL DIMENSIONS, GRADES, AND UTILITY LOCATIONS SHOWN ON THESE PLANS WERE BASED ON A.L.T.A SURVEY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY CONSTRUCTION/PROJECT MANAGER IF ANY	<ul> <li>WITH THE STATE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.</li> <li>6. AT A MINIMUM ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 98% OF</li> </ul>	<ul> <li>INSTALLED WITH A MINIMUM COVER OF 42" OR BELOW FROST LINE, WHICHEVER IS GREATER.</li> <li>2. <u>CONSTRUCTION AND MATERIALS PROVIDED BY THE COUNTY:</u></li> <li>FURNISH METER.</li> </ul>
6. REGULATORY REQUIREMENTS: COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE STARTING DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.	DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO INFORMATION SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.	STANDARD PROCTOR MAXIMUM DRY DENSITY PER A.S.T.M. TEST D-698. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 2% BELOW OPTIMUM. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND RETAIN A QUALIFIED SOILS ENGINEER REGISTERED WITHIN THE STATE TO ENSURE	<ul> <li>INSTALL METER AT BUILDING.</li> <li>FURNISH AND INSTALL COPPER SERVICE LINE FROM DEVELOPER MAIN TO METER.</li> <li>COORDINATE ALL WORK WITH THE LYNNETTE MEINZ (GENESSEE COUNTY DRAIN COMMISSION - DIVISION OF WATER &amp; WASTE SERVICES) @ 810-732-7870.</li> </ul>
<ol> <li>STORAGE OR SALE OF REMOVED ITEMS OR MATERIALS ON-SITE WILL NOT BE PERMITTED.</li> <li>OBTAIN APPROVED BORROW SOIL MATERIALS OFF-SITE WHEN SUFFICIENT SATISFACTORY</li> </ol>	6. ALL WORK WITHIN THE RIGHTS OF WAY SHALL BE IN ACCORDANCE WITH THE GOVERNING JURISDICTION AND SPECIFICATIONS.	COMPLIANCE WITH THE GEOTECHNICAL REPORT, MAKE GEOTECHNICAL RECOMMENDATIONS BASED ON FIELD CONDITIONS, AND ENSURE THAT ALL SHORING AND DEWATERING MEANS AND METHODS WILL NOT COMPROMISE THE STABILITY OF EXISTING OR PROPOSED FOOTINGS/FOUNDATIONS. THE REQUIREMENT TO HIRE AN INDEPENDENT GEOTECHNICAL	3. <u>CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR:</u> • TAP DEVELOPMENT MAIN.
<ul> <li>SOIL MATERIALS ARE NOT AVAILABLE ON-SITE.</li> <li>9. MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE THROUGHOUT CONSTRUCTION OPERATIONS.</li> </ul>	7. CONTRACTOR SHALL COORDINATE ANY MAINTENANCE OF TRAFFIC WITH THE OWNER'S REPRESENTATIVE AND THE LOCAL JURISDICTION PRIOR TO CONSTRUCTION.	ENGINEER MAY BE WAIVED IF AN OWNER HIRED GEOTECHNICAL ENGINEER IS ONSITE. THE OWNER RESERVES THE RIGHT TO REQUEST COMPACTION REPORTS PREPARED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER, VERIFYING THAT ALL FILLED AREAS AND	<ul> <li>FURNISH AND INSTALL COPPER SERVICE LINE FROM METER TO BUILDING.</li> <li>ALL TRENCHING AND BACKFILLING.</li> <li>4. CONTRACTOR SHALL PROVIDE 100% IRRIGATION PER CONSTRUCTION/PROJECT MANAGER</li> </ul>
9.A. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR OPERATING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY ENGINEER AND AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING	8. CONTRACTOR SHALL AT ALL TIMES ENSURE THAT SWPP MEASURES PROTECTING EXISTING DRAINAGE FACILITIES BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY PHASE OF THE SITE CONSTRUCTION OR LAND ALTERATION. (SEE SHEET SWPP SHEETS).	SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT. NOTIFY PROJECT CONSTRUCTION MANAGER IF ANY UNSUITABLE SOILS ARE FOUND.	AND COUNTY REQUIREMENTS. COORDINATE SLEEVE LOCATIONS WITH THE CONSTRUCTION/PROJECT MANAGER AND IRRIGATION CONSULTANT PRIOR TO PAVEMENT AND CURB INSTALLATION.
<ul><li>UTILITIES, AS ACCEPTABLE TO OWNER AND TO GOVERNING AUTHORITIES.</li><li>10. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING.</li></ul>	9. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL CLEAN THE PAVED AREAS PRIOR TO REMOVAL OF TEMPORARY SEDIMENT CONTROLS, AS DIRECTED BY THE CITY AND/OR CONSTRUCTION/PROJECT MANAGER. IF POWER WASHING IS USED, NO SEDIMENT LADEN WATER SHALL BE WASHED INTO THE STORM SYSTEM. ALL SEDIMENT LADEN MATERIAL ON	7. FOLLOWING GRADING OF SUBSOIL TO SUBGRADE ELEVATIONS THE CONTRACTOR SHALL PLACE TOPSOIL TO A 6" DEPTH IN ALL DISTURBED AREAS WHICH ARE NOT TO BE PAVED. SMOOTHLY FINISH GRADE TO MEET SURROUNDING LAWN AREAS AND ENSURE POSITIVE	<u>ELECTRICAL NOTES</u> 3.       SEE ELECTRICAL DRAWINGS FOR SITE LIGHTING AND LUMINAIRE DESCRIPTION.
<ol> <li>UTILITY REQUIREMENTS: LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITY SERVICES SERVING THE SITE, IF APPLICABLE.</li> <li>ARRANGE TO SHUT OFF AND CAP UTILITIES WITH UTILITY COMPANIES AND FOLLOW</li> </ol>	<ul> <li>PAVEMENT OR WITHIN THE STORM SYSTEM SHALL BE COLLECTED AND REMOVED FROM THE SITE AT CONTRACTOR'S EXPENSE.</li> <li>10. THE CONTRACTOR WILL, UPON BECOMING AWARE OF SUBSURFACE OR LATENT PHYSICAL</li> </ul>	DRAINAGE. STOCKPILED TOPSOIL SHALL BE SCREENED PRIOR TO RESPREADING. TOPSOIL SHALL BE FREE OF SUBSOIL, DEBRIS, BRUSH AND STONES LARGER THAN 1" IN ANY DIMENSION. ROCK HOUNDING IN PLACE WILL NOT BE PERMITTED. ALL EXCESS TOPSOIL SHALL BE LEGALLY DISPOSED OF OFF SITE.	<ul> <li>SEE ELECTRICAL SHEETS FOR ALL DEDICATED EXTERIOR BUILDING AND SIGN LIGHTING SCHEDULES. ELECTRICAL CONTRACTOR SHALL BALANCE LOADS WHERE REQUIRED.</li> <li>ALL BARKING LOT LIGHTING WIRING SHALL BE NO. 10 AWG IN 3/4" RVC DUCT.</li> </ul>
<ul><li>THEIR RESPECTIVE UTILITY KILL AND CAP POLICIES.</li><li>12. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE</li></ul>	CONDITIONS DIFFERING FROM THOSE DISCLOSED BY THE ORIGINAL SOIL EXPLORATION WORK, PROMPTLY NOTIFY THE OWNER VERBALLY TO PERMIT VERIFICATION OF THE CONDITIONS AND IN WRITING, AS TO THE NATURE OF THE DIFFERING CONDITIONS. NO CLAIM BY THE CONTRACTOR FOR ANY CONDITIONS DIFFERING FROM THOSE ANTICIPATED IN THE	<ol> <li>8. ELEVATIONS GIVEN ARE AT BOTTOM FACE OF CURB AND/OR FINISHED PAVEMENT GRADE UNLESS OTHERWISE SPECIFIED ON GRADING PLAN. ALL PAVEMENT SHALL BE LAID ON A STRAIGHT, EVEN, AND UNIFORM GRADE WITH A MINIMUM OF 1% SLOPE TOWARD THE</li> </ol>	<ol> <li>ALL PARKING LOT LIGHTING WIRING SHALL BE NO. 10 AWG IN 3/4" PVC DUCT.</li> <li>WHEN INSTALLING VERTICAL SWEEPS FOR UTILITY CONDUITS, CONTRACTOR SHALL USE 4" SCHD. 80 DUCTS.</li> </ol>
AROUND DEMOLITION AREA. 12.A. ERECT TEMPORARY PROTECTION, BARRICADES AS PER LOCAL GOVERNING AUTHORITIES. 12.B. PROTECT EXISTING SITE IMPROVEMENTS AND APPURTENANCES TO REMAIN.	PLAN AND SPECIFICATIONS AND DISCLOSED BY THE SOIL STUDIES WILL BE ALLOWED UNLESS THE CONTRACTOR HAS SO NOTIFIED THE OWNER, VERBALLY AND IN WRITING AS REQUIRED ABOVE, OF SUCH DIFFERING CONDITIONS.	COLLECTION POINTS UNLESS OTHERWISE SPECIFIED ON THE GRADING PLAN. DO NOT ALLOW NEGATIVE GRADES OR PONDING OF WATER.	<ul> <li>7. <u>CONSTRUCTION AND MATERIALS PROVIDED BY THE ELECTRIC COMPANY:</u></li> <li>FURNISH AND INSTALL PAD MOUNTED TRANSFORMER.</li> <li>MAKE APPROPRIATE PRIMARY AND SECONDARY CONNECTIONS AT TRANSFORMER AND</li> </ul>
<ol> <li>12.B. PROTECT EXISTING SITE IMPROVEMENTS AND APPORTENANCES TO REMAIN.</li> <li>13. EXPLOSIVES: USE OF EXPLOSIVES WILL NOT BE PERMITTED.</li> </ol>	11. THESE PROJECT CONSTRUCTION DOCUMENTS SHALL NOT CONSTITUTE A CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR THE ENGINEER AND THE	9. SLOPE BUILDING SIDEWALK AWAY FROM THE BUILDING AT A MAXIMUM OF 1.5% (UNLESS OTHERWISE INDICATED ON SHEET C-121).	METER. • FURNISH AND INSTALL METER. • COORDINATE ALL WORK WITH GABRIEL POLETTI (CONSUMERS ENERGY) @
14. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.	SUBCONTRACTOR. 12. THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION OR SAFETY MEANS,	10. CONTRACTOR SHALL PROVIDE BUTT END JOINT TO MEET EXISTING PAVEMENT IN ELEVATION AT DRIVE RETURNS AND ENSURE POSITIVE DRAINAGE.	<ul> <li>6. CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR:</li> </ul>
15. CLEAN ADJACENT BUILDINGS AND IMPROVEMENT OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF DEMOLITION.	METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN CONSTRUCTION BY THE CONTRACTOR OR SUBCONTRACTORS. 13. THE CONTRACTOR SHALL RUN AN INDEPENDENT VERTICAL CONTROL TRAVERSE TO CHECK		<ul> <li>INSTALL CONCRETE PAD FOR TRANSFORMER.</li> <li>FURNISH AND INSTALL 2-4" PVC SCHEDULE 40 DUCTS, INCLUDING ALL TRENCHING AND BACKFILLING.</li> </ul>
16. DAMAGES: PROMPTLY REPAIR DAMAGES TO ADJACENT FACILITIES CAUSED BY DEMOLITION OPERATIONS AT THE CONTRACTORS COST.	BENCHMARKS AND A HORIZONTAL CONTROL TRAVERSE THROUGH THE REFERENCED PROJECT CONTROL DATUM TO CONFIRM GEOMETRIC DATA. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF		<ul> <li>FURNISH AND INSTALL SECONDARY WIRE FROM THE BUILDING TO THE TRANSFORMER.</li> <li>FURNISH AND INSTALL METER BASE AND CT CABINET.</li> <li>INCLUDE ALL FEES REQUIRED BY ELECTRIC COMPANY TO PROVIDE A COMPLETE WORKING SERVICE</li> </ul>
17. GENERAL: PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.	CONSTRUCTION.		TELEPHONE NOTES         1.       CONSTRUCTION AND MATERIALS PROVIDED BY THE TELEPHONE COMPANY:
<ol> <li>BURNING: DO NOT BURN DEMOLISHED MATERIALS.</li> <li>ASBESTOS: IT IS NOT EXPECTED THAT ASBESTOS WILL BE ENCOUNTERED IN THE COURSE OF</li> </ol>			CONSTRUCTION AND MATERIALS PROVIDED BY THE TELEPHONE COMPANY.     COORDINATE ALL WORK WITH ED HOFFMAN (AT&T) @ 248-456-0830.     PROVIDE AND INSTALL WIRING TO EXISTING SERVICE POLE.
THIS CONTRACT. IF ANY MATERIALS SUSPECTED OF CONTAINING ASBESTOS ARE ENCOUNTERED, DO NOT DISTURB THE MATERIALS. IMMEDIATELY NOTIFY THE ENGINEER AND THE OWNER.	SITE PLAN NOTES	UTILITY NOTES	<ul> <li>2. <u>CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR:</u></li> <li>FURNISH AND INSTALL ONE 4" PVC SCH. 40 CONDUIT WITH PULLWIRE FROM THE BUILDING TO EXISTING SERVICE.</li> </ul>
20. FILLING BELOW-GRADE AREAS: COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION OF PAVEMENTS WITH SOIL MATERIALS ACCORDING TO REQUIREMENTS PER SOILS REPORT. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO	<ol> <li>ALL DIMENSIONS AND RADII ARE GIVEN TO FACE OF CURB UNLESS OTHERWISE NOTED.</li> <li>ALL EXTERIOR SITE SPECIFIC PORTLAND CONCRETE CEMENT (I.E. SIDEWALK, PAVEMENT</li> </ol>	<u>GENERAL UTILITY NOTES</u> 1. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES IMMEDIATELY AFTER BID IS	<ul> <li>ALL TRENCHING AND BACKFILLING.</li> <li>INSTALL MOUNTING BOARD SUFFICIENT FOR MOUNTING A BUILDING TERMINAL OR EQUIPMENT REQUIRED TO SUPPLY SERVICE TO THE BUILDING.</li> <li>INCLUDE ALL FEES REQUIRED BY TELEPHONE COMPANY TO PROVIDE A COMPLETE</li> </ul>
<ul> <li>FILLING ANY AREAS. CONTRACTOR SHALL CONTACT ENGINEER TO OBSERVE FILL PROCEDURES.</li> <li>21. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM</li> </ul>	OR CURBING) SHALL MEET THE LATEST EDITION OF THE STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR MATERIALS USED, MIXING, TRANSPORTATION, PLACEMENT AND CURING. THE MINIMUM STRENGTH FOR PCC ALLOWED IS 4000 PSI AT 28	AWARDED AND ENSURE THE UTILITY COMPANIES HAVE THE ESSENTIALS REQUIRED FOR COMPLETE SERVICE INSTALLATION. CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER OF ANY TIME FRAMES ESTABLISHED BY UTILITY COMPANIES WHICH WILL NOT MEET OPENING DATE.	WORKING SERVICE. 3. CONTRACTOR SHALL COORDINATE THE NUMBER OF LINES REQUIRED WITH THE
INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES. 21.A. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR	DAY STRENGTH. AIR ENTRAINMENT SHALL BE IN ACCORDANCE WITH DOT SPECIFICATIONS FOR EXTERIOR CONCRETE. (CONTRACTOR SHALL REFER TO DETAILS WITHIN THIS DRAWING SET FOR ANY VARIATIONS TO THIS SPECIFICATION)."	<ol> <li>CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, INVERT ELEVATION, AND CONDITION OF EXISTING UTILITIES WHICH ARE INTENDED TO BE UTILIZED AS A CONNECTION POINT FOR ALL</li> </ol>	CONSTRUCTION/ PROJECT MANAGER. <u>NATURAL GAS NOTES</u>
USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY GOVERNING REGULATIONS.	3. ALL EXTERIOR CURB SHALL HAVE EXPANSION JOINTS AT 100'-0" O.C, AND CONTROL JOINTS AT 10'-0" O.C. (UNLESS OTHERWISE SPECIFIED ON THE DETAIL SHEETS) ALL EXTERIOR WALK SHALL HAVE EXPANSION JOINTS AT 20'-0" O.C. AND CONTROL JOINTS @ 5'-0" MAX. O.C.	PROPOSED UTILITIES (SEE SHEET C-141), PRIOR TO ANY CONSTRUCTION. CONTRACTOR TO ENSURE EXISTING UTILITIES ARE IN GOOD CONDITION AND FREE FLOWING (IF APPLICABLE). IF ELEVATIONS, SIZE, OR LOCATION DIFFER FROM WHAT IS SHOWN ON SHEET C-141, CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER IMMEDIATELY.	<ol> <li><u>CONSTRUCTION AND MATERIALS PROVIDED BY THE GAS COMPANY:</u></li> <li>TAP MAIN.</li> <li>FURNISH AND INSTALL SERVICE FROM TAP TO BUILDING.</li> </ol>
22. CONTRACTOR TO SAWCUT EXISTING PAVEMENT TO REMAIN PRIOR TO CURB, GUTTER, PAVEMENT, ETC REMOVAL.	<ul><li>(UNLESS OTHERWISE SPECIFIED ON THE DETAIL SHEETS).</li><li>4. ALL CONCRETE SHALL HAVE A MEDIUM TRANSVERSE FINISH.</li></ul>	3. WHERE PLANS PROVIDE FOR PROPOSED WORK TO BE CONNECTED TO, OR CROSS OVER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE	<ul> <li>ALL TRENCHING AND BACKFILLING.</li> <li>FURNISH AND INSTALL METER.</li> <li>COORDINATE ALL WORK WITH GABRIEL POLETTI (CONSUMERS ENERGY) @ 810-760-3485.</li> </ul>
		EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING THE PROPOSED WORK. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE RESULTS IN A CHANGE IN THE PLAN, THE CONSTRUCTION MANAGER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED WORK WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY. PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT ITEM.	<ul> <li>2. <u>CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR:</u></li> <li>FURNISH AND INSTALL SERVICE FROM METER TO BUILDING AND THROUGHOUT THE BUILDING.</li> <li>CONTRACTOR SHALL INCLUDE ALL FEES REQUIRED BY THE GAS COMPANY TO PROVIDE A COMPLETE WORKING SERVICE.</li> </ul>
		STORM SEWER NOTES	<u>CABLE NOTES</u>
		<ol> <li>ALL STORM SEWER PIPE 12" OR GREATER IN DIAMETER SHALL BE CORRUGATED HIGH DENSITY POLYETHYLENE (HDPE) SMOOTH INTERIOR PIPE (UNLESS OTHERWISE NOTED ON PLAN). HDPE PIPE SHALL CONFORM TO ASTM D 3350 AND JOINTS PER ASTM F477. STORM SEWER LESS THAN 12" IN DIAMETER SHALL BE PVC, SDR 35, PER ASTM D 3034 AND JOINTS PER ASTM D 3212 (OR APPROVED EQUAL). STORM SEWER CALLED OUT TO BE RCP SHALL BE CL IV, PER ASTM C76, AND JOINTS PER ASTM S-443. CONNECT 6" PVC LATERAL TO HDPE</li> </ol>	<ol> <li>INSTALL 4" CABLE TVSS CONDUIT PER CITY, STATE OR NEC CODE, WHICHEVER IS MORE STRINGENT (FOR FUTURE USE). SEE ELECTRICAL SHEETS FOR DETAILS. TERMINATE CABLE CONDUIT AT RIGHT-OF-WAY. PROVIDE END CAP AND NOTE LOCATION ON AS-BUILT DRAWINGS.</li> </ol>
	PLAN REPRODUCTION WARNING THE PLANS HAVE BEEN CREATED ON ANSI D (22"x34") SHEETS, REFER TO GRAPHIC SCALE.	<ol> <li>SEWER WITH INSERTA TEE CONNECTOR.</li> <li>THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRENCHING, BACKFILLING AND PIPE INSTALLATION, PIPE MATERIAL AND TAP CONNECTION. COORDINATE ALL WORK WITH TOM JONES (GENESEE COUNTY DRAIN COMMISSION - SURFACE WATER MANAGEMENT) @ 810-732-1474.</li> </ol>	NOTE: UTILITY SUBMITTALS HAVE BEEN SENT OUT TO THE LOCAL JURISDICTIONS AND COMPANIES ON 10/19/2018
		3. ALL DRAINAGE STRUCTURES SHALL HAVE FINGER DRAINS PER ON SHEET C-502.	

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e	EXISTING ELECTRIC PULLBOX		
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@	EXISTING CLEANOUT		
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——— P/L ———	EXISTING PROPERTY LINE		
———— R/W ————	EXISTING RIGHT OF WAY LINE		
C/L	EXISTING CENTER LINE		
	EXISTING OVERHEAD UTILITY LINES EXISTING UNDERGROUND GAS LINES		
	EXISTING UNDERGROUND GAS LINES		
SAN	EXISTING UNDERGROUND SANITARY LINES		
W	EXISTING UNDERGROUND WATER LINES		
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## DEMOLITION NOTES

#### ENSION OF PUBLIC UTILITIES:

. PUBLIC SANITARY SEWER AND/OR WATERMAIN SHALL BE EXTENDED TO THE FURTHEST ITS OF THE PROPERTY, INCLUDING CORNER LOTS, WITH THE PIPE SIZE AND MATERIAL PROVED BY GCDC-WWS. THIS IS NECESSARY FOR PLAN APPROVAL. FOR WATER SERVICE 1" OR LESS OR A BUILDING ON A CORNER LOT, THE REQUIREMENTS TO EXTEND THE BLIC WATERMAIN AND/OR SANITARY SEWER ALONG BOTH PROPERTY LINES WILL BE /IEWED. FINAL DETERMINATION SHALL BE MADE BY GCDC-WWS.

#### TERMAIN LOOPING:

PUBLIC WATERMAINS SHALL BE LOOPED WHENEVER POSSIBLE. THE PIPE SIZE QUIREMENTS SHALL BE APPROVED BY GCDC-WWS.

#### USTRIAL PRETREATMENT PROGRAM (IPP):

S PERMIT IS REQUIRED FOR ALL COMMERCIAL (NON-RESIDENTIAL) AND INDUSTRIAL CHARGES. THE OWNER SHALL OBTAIN AN INDUSTRIAL PRETREATMENT DISCHARGE RMIT PRIOR TO THE ISSUANCE OF A SEWER CONNECTION PERMIT. INDUSTRIAL DISCHARGE RMITS ARE NON-TRANSFERABLE. CHANGES IN FACILITY USE WILL REQUIRE A NEW USTRIAL DISCHARGE PERMIT. FOR MORE INFORMATION CALL THE ANTHONY RAGNONE EATMENT PLANT AT (810) 232-7662.

#### L EROSION:

E DEVELOPER AND/OR OWNER SHALL SUBMIT A DETAILED SOIL EROSION AND DIMENTATION CONTROL PLAN AND OBTAIN AN ACT 451 PART 91, SOIL EROSION AND DIMENTATION CONTROL PERMIT. THIS INCLUDES THE PAYMENT OF FEES AND THE DVIDING OF NECESSARY BONDS. NO EARTH CHANGES OR EXCAVATION SHALL BE STARTED OR TO THE ISSUANCE OF THIS PERMIT. THE DEVELOPER AND/OR OWNER SHALL PROTECT . EXISTING AND PROPOSED STORM SEWER FACILITIES ON AND ADJACENT TO THE SITE RING EXCAVATION AND CONSTRUCTION. ALL SEDIMENT SHALL BE CONTAINED ON SITE. Y SILT IN COUNTY DRAINS, STORM SEWER, CULVERTS, ETC. AS A RESULT OF THIS DJECT, SHALL BE REMOVED BY THE DEVELOPER AND/OR OWNER AT THE COST OF THE /ELOPER AND/OR OWNER.

#### OD PLAIN OR WETLAND CONSTRUCTION:

E DEVELOPER AND/OR OWNER SHALL APPLY TO THE MICHIGAN DEPARTMENT OF /IRONMENTAL QUALITY FOR A PERMIT FOR THE ALTERATION AND/OR OCCUPATION OF A OD PLAIN OR FLOODWAY, AS REQUIRED UNDER PA 451. EVIDENCE OF THIS PERMIT MAY BE QUIRED PRIOR TO PLAN APPROVAL BY GCDC-WWS.

#### DES STORM WATER DISCHARGE PERMIT:

E OWNER OF THE PROPERTY SHALL OBTAIN A NPDES STORM WATER DISCHARGE PERMIT R CONSTRUCTION ACTIVITIES FROM MDEQ AS REQUIRED UNDER PUBLIC ACT 451. THE FICE OF COVERAGE FORM SHALL BE SUBMITTED THROUGH GCDC-WWS WITH THE SOIL DSION CONTROL PERMIT APPLICATION. ALL MDEQ FEES SHALL ACCOMPANY THE NOTICE COVERAGE. EVIDENCE OF THIS PERMIT MAY BE REQUIRED PRIOR TO PLAN APPROVAL BY DC-WWS.

#### ESEE COUNTY PERMIT TO CONSTRUCT A PUBLIC UTILITY:

TER THE APPROVAL OF THIS PRELIMINARY PLAT OR SITE PLAN, THE DEVELOPER SHALL 3MIT A DETAILED PLAN FOR CONSTRUCTION OF ALL PUBLIC SANITARY SEWER AND TERMAIN. THE PLANS MUST HAVE GCDC-WWS APPROVAL, A S-PERMIT ISSUED, AND PROVAL FROM THE MDEQ PRIOR TO BEGINNING CONSTRUCTION.

#### ESEE COUNTY ROAD COMMISSION PERMIT:

E DEVELOPER SHALL OBTAIN A PERMIT FROM THE GENESEE COUNTY ROAD COMMISSION PERFORM WORK WITHIN THE GENESEE COUNTY ROAD COMMISSION RIGHT-OF-WAY. ALL IS FOR THE PERMIT, BONDS AND INSURANCES ARE THE RESPONSIBILITY OF THE /ELOPER.

#### VICIPALITY SANITARY SEWER AND WATER PERMIT:

OR TO THE ISSUANCE OF A BUILDING PERMIT BY THE LOCAL MUNICIPALITY, THE /ELOPER SHALL BE REQUIRED TO OBTAIN A SANITARY SEWER AND/OR WATER TAP-IN RMIT FROM THE LOCAL MUNICIPALITY, IF AUTHORIZED, OR GCDC-WWS.

#### TE CONSTRUCTION PERMITS:

E SANITARY SEWER AND WATERMAIN CONSTRUCTION PERMITS FROM THE MICHIGAN PARTMENT OF ENVIRONMENTAL QUALITY SHALL BE SUBMITTED TO THE MDEQ AFTER PROVAL OF GCDC-WWS. CONSTRUCTION SHALL NOT BEGIN UNTIL THESE STATE PERMITS E ISSUED.



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CONTRACT DATE:	
CONTRACT DATE:	
BUILDING TYPE:	MO T40
PLAN VERSION:	
BRAND DESIGNER:	
SITE NUMBER:	313076

## TACO BELL

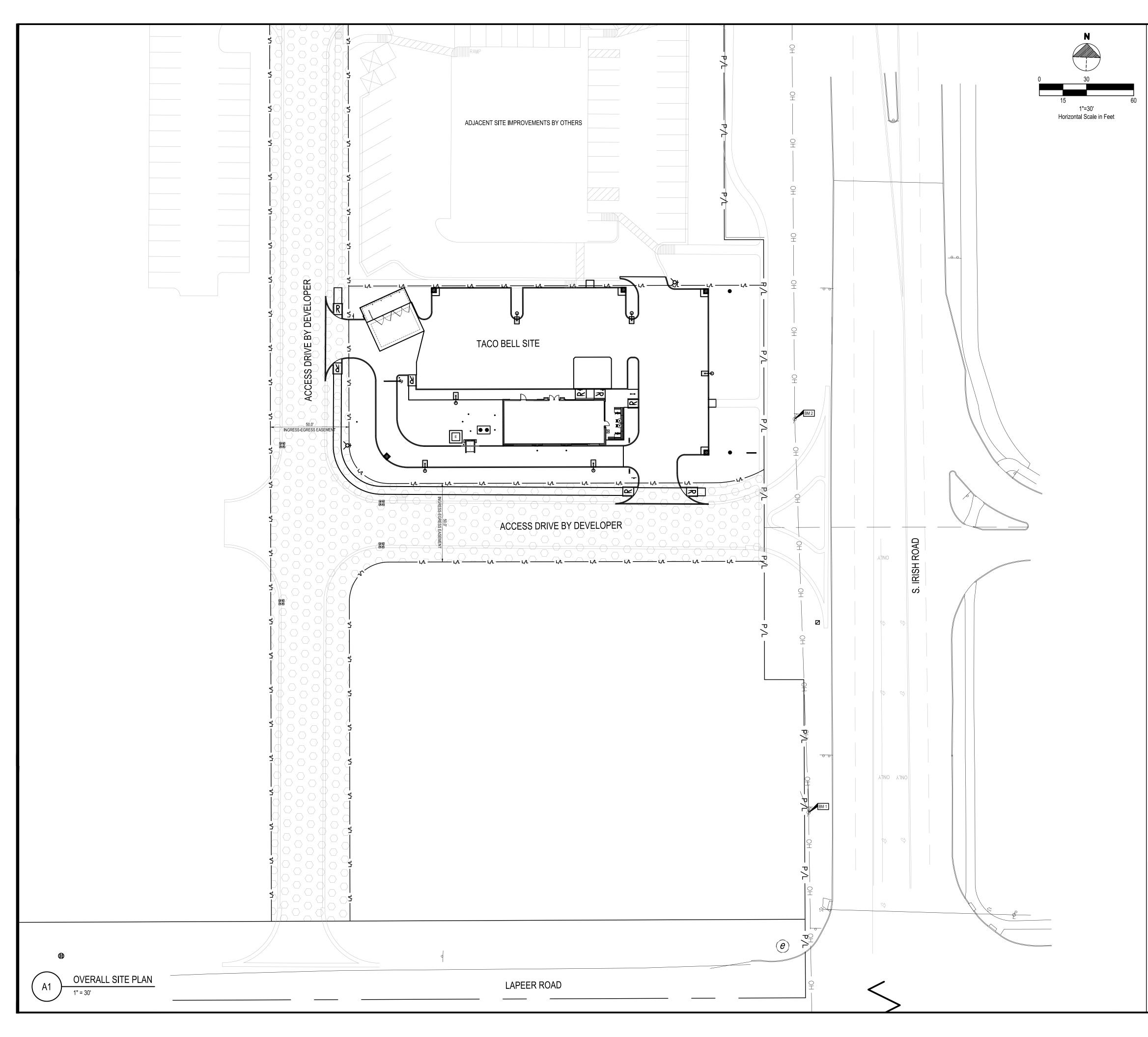
STORE NUMBER:

7931 LAPEER ROAD DAVISON, MI 48423



## **GCDC NOTES**







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$\bigtriangleup$ issued for construction	08.21.19
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CONTRACT DATE:	
BUILDING TYPE:	MO T40
PLAN VERSION:	
BRAND DESIGNER:	
SITE NUMBER:	313076
STORE NUMBER:	

## TACO BELL

7931 LAPEER ROAD DAVISON, MI 48423



## OVERALL SITE PLAN



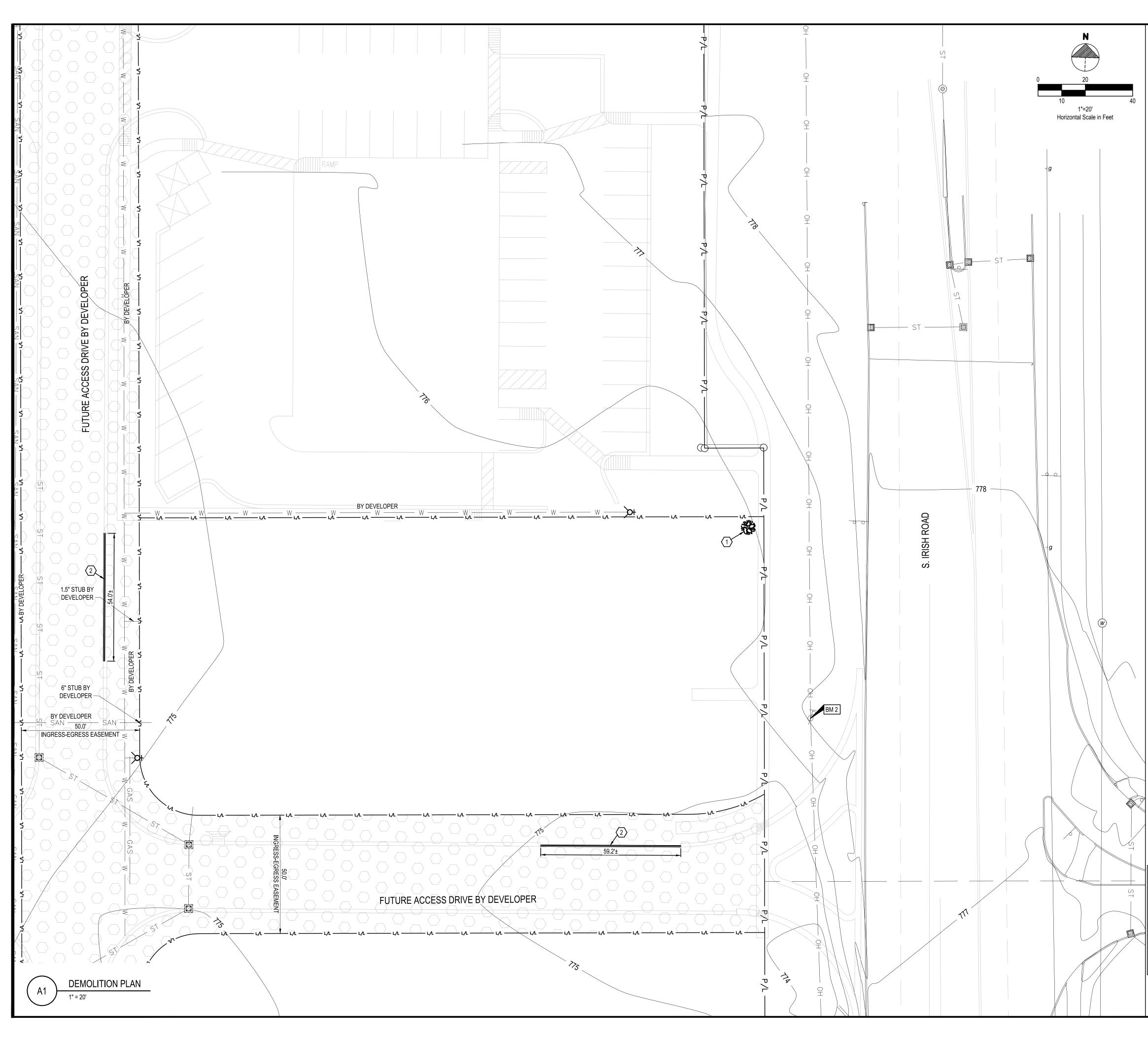
BENCHMARKS:

BENCHMARK #1 TOP OF NORTHWEST BOLT ON BASE OF TRAFFIC SIGNAL POLE AT SOUTHEAST PROPERTY CORNER. ELEVATION=777.54 (NAVD 88 DATUM) BENCHMARK #2 - MAG NAIL ON SOUTH FACE OF POWER POLE BETWEEN EAST PROPERTY LINE AND SOUTH IRISH ROAD. ELEVATION=776.92 (NAVD 88 DATUM)

UTILITY NOTIFIC ATION ORGANIZATION MIC HIGAN'S ONE- CALL THREE FULL WORKING DAYS BEFORE YOU DIG, CALL THE MISS DIG SYSTEM AT

1-(800)-482-7171

OR CALL #DIG FREE FROM YOUR AT&T OR CINGULAR CELLULAR PHONE THE MISS DIG MEMBER UTILITIES WILL MARK THE APPROXIMATE LOCATION OF THEIR UNDERGROUND PUBLIC UTILITY LINES AT NO CHARGE.



## GENERAL SHEET NOTES

UTILITY LOCATIONS SHOWN ON PLAN FOR THE DEVELOPMENT ARE FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE DEVELOPER FOR EXACT LOCATIONS OF ALL DEVELOPER UTILITIES.

## DEMOLITION KEYNOTES (#)

EXISTING LANDSCAPING (INCLUDING BUSHES, TREES, ETC.) TO BE REMOVED. EXISTING DEVELOPMENT CURBING TO BE HORIZONTALLY SAW CUT TO MAINTAIN 1" LIP ACROSS CURB LINE FOR NEW DRIVE APRON. CONTRACTOR SHALL COORDINATE WORK WITH THE DEVELOPER'S CONTRACTOR PRIOR TO CONSTRUCTION.

DEMOLITION NOTE: ALL EXISTING SITE AND SURROUNDING FEATURES SUCH AS UTILITIES, PAVEMENT, CURB, LANDSCAPING, ETC. SHALL REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION UNLESS NOTED OTHERWISE, OR ARE REQUIRED TO BE MODIFIED OR REMOVED FOR THE INSTALLATION OF PROPOSED IMPROVEMENTS. ALL DISTURBED FEATURES SHALL BE RESTORED OR RELOCATED AS REQUIRED TO THE SATISFACTION OF THE OWNER. CONTRACTOR SHALL REPAIR/REPLACE ANY SURROUNDING FEATURES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.

## LEGEND

(SEE SHEET C-001 FOR GENERAL LEGEND)

DENOTES LIMITS OF SAWCUT

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DEMOLITION KEYNOTE

NOTE: ALL UNDERGROUND UTILTIES AND PAVEMENTS SHOWN HEREON (EXCEPT FOR SOUTH IRISH ROAD) ARE PROPOSED AT THE TIME THIS DESIGN IS COMPLETED. ALL REFERENCES TO THOSE PAVEMENTS AND UTILITIES ARE PLANNED FOR CONNECTION AT A LATER DATE.



$\Delta$	
$\Delta$ issued for construction	08.21.19
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$\overline{\wedge}$	
$\overline{\wedge}$	
$\overline{\wedge}$	
CONTRACT DATE:	
BUILDING TYPE:	MO T40
PLAN VERSION:	
BRAND DESIGNER:	
SITE NUMBER:	313076
STORE NUMBER:	
TACO BELL	
	-

7931 LAPEER ROAD DAVISON, MI 48423







## **BENCHMARKS:**

BENCHMARK #1 TOP OF NORTHWEST BOLT ON BASE OF TRAFFIC SIGNAL POLE AT SOUTHEAST PROPERTY CORNER. ELEVATION=777.54 (NAVD 88 DATUM)

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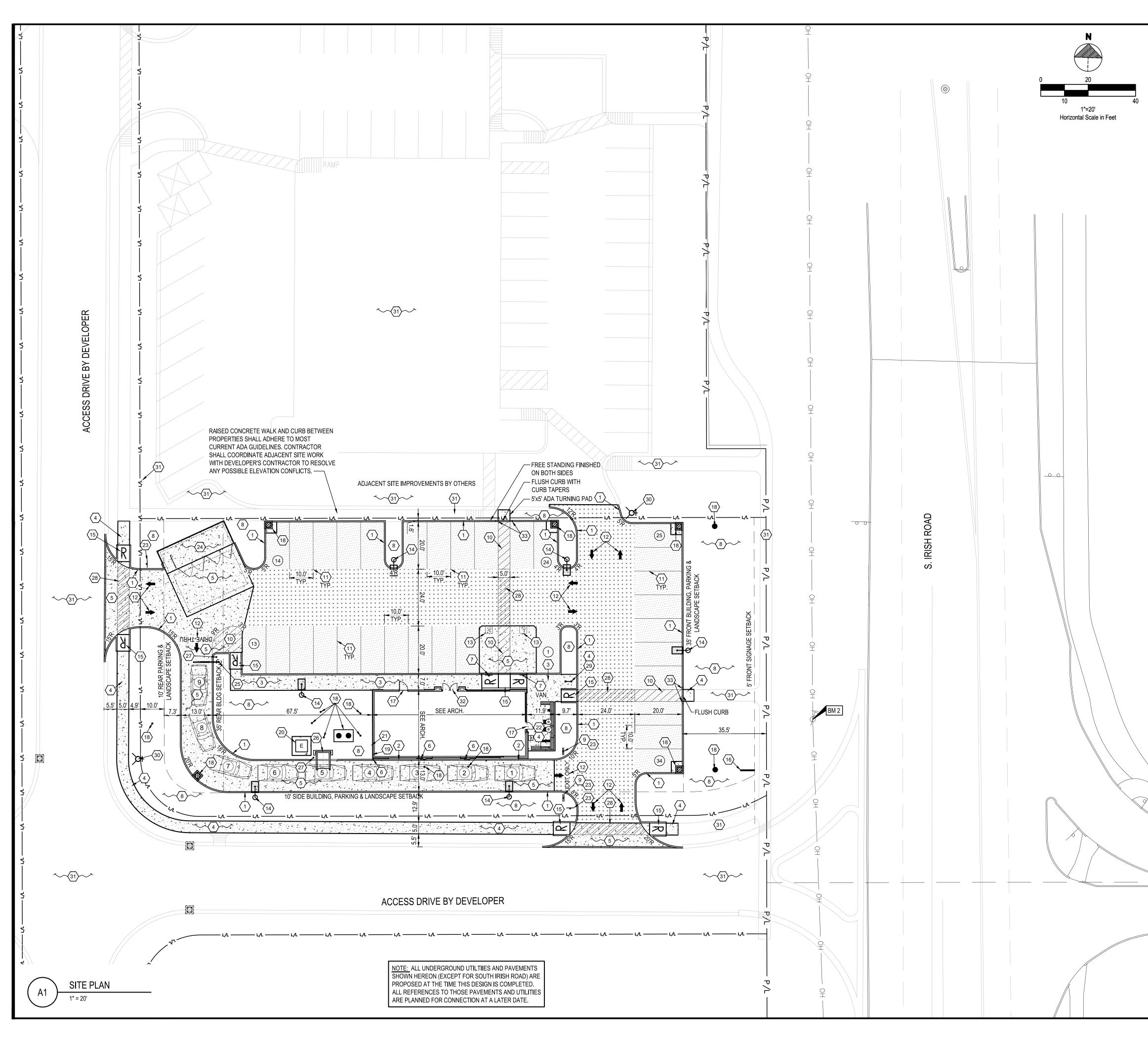
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DNF— CALL

1-(800)-482-7171

UTILITY

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## PLAN KEYNOTES 🖽

- PROPOSED P.C.C. CURB, SEE SHEET 501.
- PROPOSED CURB AT DRIVE THRU, SEE SHEET 501.
- PROPOSED P.C.C. CURBED WALK, SEE SHEET 501. PROPOSED P.C.C. WALK, SEE SHEET 501.
- PROPOSED 6" P.C.C. PAVEMENT W/ W.W.F. 6" x 6"-W2.9 x W2.9 (CONTROL JTS. 12'-0" O.C.) OVER 8" CRUSHED AGGREGATE OR GRAVEL BASE. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT.
- PROPOSED BOLLARD IN CURB, SEE SHEET 501.
- PROPOSED HANDICAPPED PARKING SIGN, SEE SHEET 501.
- PROPOSED LANDSCAPING AREA. SOD ALL DISTURBED AREAS EXCEPT WHERE PLANTING BEDS ARE INDICATED. SEE SHEET L-101.
- PROPOSED 'DO NOT ENTER' SIGN PER MDOT STANDARDS AND SHEET 501.
- PROPOSED PAINTED TRANSVERSE STRIPING, SEE SHEET 501.
- . PROPOSED PAINTED 4" WIDE SOLID STRIPE WHITE ON ASPHALT, YELLOW ON CONCRETE. 12. PROPOSED DIRECTIONAL PAVEMENT MARKINGS - WHITE ON ASPHALT, YELLOW ON CONCRETE - SEE SHEET 501.
- 13. PROPOSED PAINTED INTERNATIONAL ADA SYMBOL PER ADA SPECIFICATIONS AND SHEET 501. 14. PROPOSED LIGHT POLE AND FOUNDATION. SEE ELECTRICAL DRAWINGS AND SHEET 501 FOR FOUNDATION SPECIFICATIONS.
- 15. PROPOSED ADA ACCESSIBLE RAMP PER ADA SPECIFICATIONS AND SHEET 502.
- 16. PROPOSED 5'-0" O.A.H., 60 S.F. MONUMENT SIGN PER SIGN SUPPLIER SPECIFICATIONS.
- 17. PROPOSED 5'x5' FROST SLAB AT DOOR. SEE STRUCTURAL DRAWINGS. 18. PROPOSED UTILITY STRUCTURE, SEE SHEET C-141 FOR DESIGN INFORMATION.
- 19. PROPOSED GAS METER PER GAS COMPANY SPECIFICATIONS. SEE ARCHITECTURAL
- DRAWINGS FOR EXACT LOCATION.
- 20. PROPOSED ELECTRICAL TRANSFORMER PER ELECTRICAL COMPANY SPECIFICATIONS. G.C. TO VERIFY EXACT LOCATION AND SIZE WITH UTILITY ENGINEER.
- 21. PROPOSED ELECTRIC METER PER ELECTRIC COMPANY SPECIFICATIONS. SEE
- ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
- 22. PROPOSED PATIO FURNITURE, SEE ARCHITECTURAL SHEETS.
- 23. PROPOSED 'STOP' SIGN PER MDOT STANDARDS AND SHEET C-501. 24. PROPOSED TRASH ENCLOSURE, SEE ARCHITECTURAL SHEETS.
- 25. PROPOSED EVOLUTION PORTAL CLEARANCE BAR, SEE SHEET C-502.
- 26. PROPOSED DIGITAL MENU BOARD PER SIGN SUPPLIER SPECIFICATIONS AND SHEET C-502. SIGN SUPPLIER TO PROVIDE A TEMPLATE FOR G.C. G.C. TO COORDINATE A MEETING WITH THE CONSTRUCTION/PROJECT MANAGER AND OPERATIONS TO VERIFY LOCATION AND PLACEMENT OF MENU BOARD PRIOR TO ANY CONSTRUCTION. SIGN SUPPLIER SHALL PROVIDE G.C. WITH FOUNDATION DETAILS. G.C. RESPONSIBLE FOR SIGN FOUNDATIONS/ELECTRICAL.
- 27. PROPOSED BOLLARD, SEE SHEET C-502.
- 28. PROPOSED PAINTED CROSSWALK STRIPING, SEE SHEET C-502.
- 29. PROPOSED BIKE RACK, SEE SHEET C-502.
- 30. PROPOSED FIRE HYDRANT BY DEVELOPER.
- 31. PROPOSED WALK BY DEVELOPER OR ADJACENT SITE CONTRACTOR.
- 32. PROPOSED 5'X7' FROST SLAB AT DOOR. SEE STRUCTURAL DRAWINGS.
- 33. PROPOSED 1' CURB TAPER, SEE SHEET C-503.

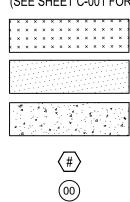
### LEGEND

(SEE SHEET C-001 FOR GENERAL LEGEND)

PROPOSED HEAVY DUTY ASPHALT. SEE TABLE, THIS SHEET.

PROPOSED STANDARD DUTY ASPHALT. SEE TABLE, THIS SHEET.

3.0"



PROPOSED CONCRETE

CONSTRUCTION KEYNOTE

## PROPOSED PARKING SPACE NUMBER

PROPOSED DRIVE THRU STACK CAR AND NUMBER

### ASPHALT PAVEMENT

(00))

MATERIAL	DEPTH (HVY. DUTY)	DEPTH (STD. DUTY)	MDOT SPECIFICATIONS ITEM
ASPHALT SURFACE COURSE	1.5"	1.5"	5E03

1.5" ASPHALT SURFACE COURSE 4.0" ASPHALT BASE COURSE

8.0" 6.0" 21AA GRADED AGG. BASE COURSE SUBGRADE COMPACTION PER SOILS REPORT PER SOILS REPORT PER SOILS REPORT MATERIALS SHALL BE MICHIGAN DEPARTMENT OF TRANSPORTATION APPROVED. SEE TYPICAL SECTION SHEET C-503.

## BUILDING SETBACKS REQUIRED PROVIDED

BENCHMARKS:

BENCHMARK #1

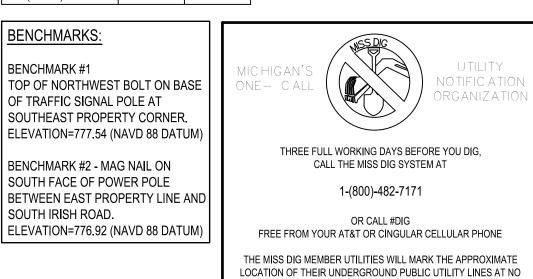
SOUTH IRISH ROAD.

FRONT: IRISH	I ROAD	35'	100.5'					
REAR: DEV. D	DRIVE	35'	97.8'					
SIDE (NORTH	I):	10'	71.1'					
SIDE (SOUTH	):	10'	24.0'					
PARKI	NG SETE	BACKS						
REQUIRED PROVIDED								
FRONT: IRISH	I ROAD	35'	35.0'					
REAR: DEV. D	DRIVE	10'	16.8'					
SIDE (NORTH	I):	N/A	1.0'					
SIDE (SOUTH	):	10'	10.0'					
LANDS	CAPE S	ETBACK	S					
		REQUIRED	PROVIDED					
FRONT: IRISH	I ROAD	35'	35.0'					
REAR: DEV. D	DRIVE	10'	16.8'					
SIDE (NORTH	I):	N/A'	1.0'					
SIDE (SOUTH	):	10'	10.0'					

PARKING SPACE	S	
	REQUIRED	PROVIDED
NUMBER OF SPACES	34	34
PARKING REQUIREMENTS 1 SPACE PER EMPLOYEE AT LAI 2 SEATS PROVIDED+1 FOR EAC AREA DEVOTED TO CUSTOMER THEREFORE: 8+(40/2)+(175/30) =	H 30 S.F. OF U WAITING ARE	SABLE FLOW
LAND USE DATA		
	% OF	AREA
	SITE AREA	PROVIDED
BUILDING	5.4%	0.044 AC.
PAVEMENT/IMPERVIOUS	60.8%	0.491 AC.
LANDSCAPING	33.8%	0.273 AC.
TOTAL	100%	0.808 AC.

4E03

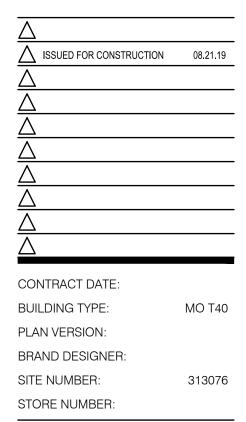
CURRENT ZONING: GC - GENERAL COMMERCIAL



CHARGE.

TOTAL

	<b>OUP</b> orporation
520 South Mai	n Street, Suite 2531 Akron, OH 44311
330.572.2100	Fax: 330.572.2102

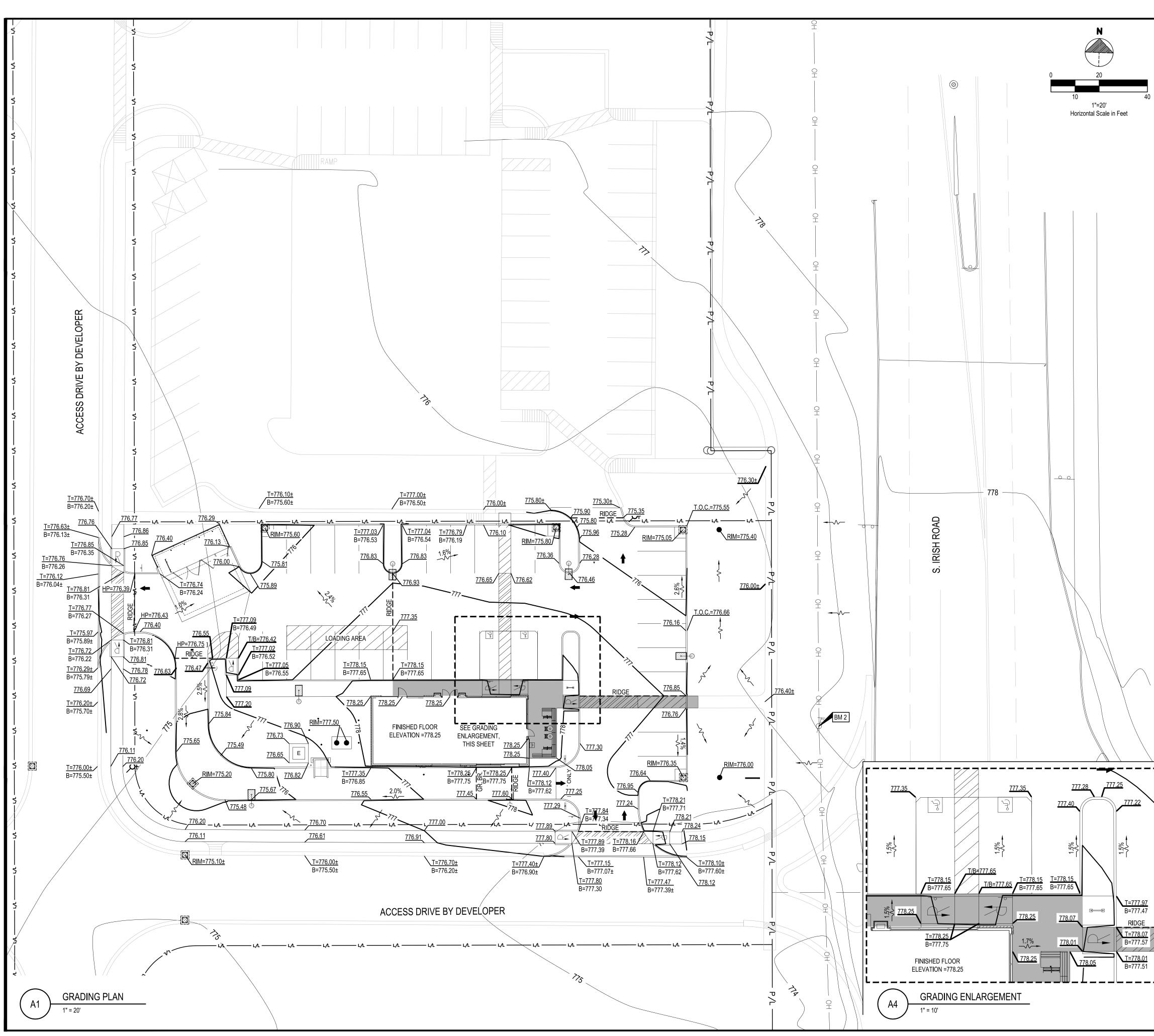


TACO BELL









OF THIS PROPERTY. IT IS TO WILL COORDINATE THE ADJAG GRADES GIVEN ON THIS SHEE 2. CONTRACTOR SHALL COORD ALL OTHER LOCATIONS WITH 3. IF DEVELOPER GRADES ARE S CONTRACTOR SHALL CONTAC	R GRADES HAVE NOT BEEN ESTABLISHED PRIOR TO DESIGN THE DESIGN ENGINEERS KNOWLEDGE THAT THE DEVELOPER CENT DRIVE AISLE GRADES WITH THE TACO BELL PROPERTY CT. NATE TIE-IN GRADES AT PROPOSED WALKS, CURB CUTS AND THE PROPERTY DEVELOPER. SUCH THAT STEEP SLOPES ARE NEEDED TO TIE-IN, THE CT AND COORDINATE WITH THE CONSTRUCTION MANAGER. SHALL BE CONSTRUCTED TO MEET CURRENT ADA	Figure 1       Figure 2         Contract of the second
LEGEND (SEE SHEET C-001 FOR GENERAL L	EGEND)	
	OSED CONTOUR	
	OSED PAVEMENT SWALE	
	TO BE ADA COMPLIANT ES PER ADA GUIDELINES	
000.00± EXIST	ING SPOT ELEVATION	
000.00 PROF	OSED ELEVATION @ FINISHED GROUND ELEVATION	
HP=000.00 PROF	OSED ELEVATION AT PAVEMENT RIDGE	
LP=000.00 PROF	OSED ELEVATION AT PAVEMENT LOW POINT	
	OSED TOP AND BOTTOM OF CURB - FLUSH CURB AT PAVEMENT	
	OF CURB ELEVATION/WALK ELEVATION OM OF CURB/FINISHED PAVEMENT ELEVATION	
	OSED DRAINAGE SLOPE & DIRECTION	
SHOWN HERE PROPOSED AT ALL REFEREN	DERGROUND UTILITIES AND PAVEMENTS DN (EXCEPT FOR SOUTH IRISH ROAD) ARE THE TIME THIS DESIGN IS COMPLETED. CES TO THOSE PAVEMENTS AND UTILITIES FOR CONNECTION AT A LATER DATE.	△       ISSUED FOR CONSTRUCTION       08.21.19         △       △       △         △       △       △         △       △       △         △       △       △         △       △       △         △       ○       ○         △       ○       ○         △       ○       ○         △       ○       ○         △       ○       ○         △       ○       ○         △       ○       ○         △       ○       ○         △       ○       ○         △       ○       ○         △       ○       ○         △       ○       ○         △       ○       ○         △       ○       ○         △       ○       ○         ○       ○       ○         ○       ○       ○         ○       ○       ○         ○       ○       ○         ○       ○       ○         ○       ○       ○         ○       ○       ○         ○       ○
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ST	ORM WATER POLLUTION PREVENTION NOTES	ADI	DITIONAL CONSTRUCTION SITE POLLUTION CONTROLS	(
1.	ALL WORK SPECIFIED AS AN DEPARTMENT OF TRANSPORTATION ITEM SHALL BE GOVERNED BY THE MICHIGAN DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS AS WELL AS THE CURRENT EDITION OF THE LOCAL JURISDICTION STORM WATER MANAGEMENT MANUAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO POSSESS AND TO BE FAMILIAR WITH APPLICABLE SECTIONS.	1.	CONSTRUCTION PERSONNEL, INCLUDING SUBCONTRACTORS WHO MAY USE OR HANDLE HAZARDOUS OR TOXIC MATERIALS, SHALL BE MADE AWARE OF THE FOLLOWING GENERAL GUIDELINES REGARDING DISPOSAL AND HANDLING OF HAZARDOUS AND CONSTRUCTION WASTES:	
2.	THESE CONTRACT DRAWING SHALL BE MADE AVAILABLE ON SITE AT ALL TIMES AND PRESENTED UPON REQUEST. IF UNFORESEEN STORM WATER POLLUTION IS ENCOUNTERED, ADDITIONAL STORM WATER POLLUTION PREVENTION (SWPP) MEASURES SHALL BE IMPLEMENTED TO MANAGE THE CURRENT SITE CONDITIONS WHICH MAY BE REQUESTED BY THE OWNER, COUNTY ENGINEER, PROJECT ENGINEER OR SOIL AND WATER CONSERVATION SERVICE REPRESENTATIVE AT ANYTIME. SUCH REQUESTS AND CHANGE IN SITE CONDITIONS SHALL BE IMPLEMENTED IMMEDIATELY AT CONTRACTOR'S EXPENSE.	)	<ul> <li>a) PREVENT SPILLS</li> <li>b) USE PRODUCTS UP</li> <li>c) FOLLOW LABEL DIRECTIONS FOR DISPOSAL</li> <li>d) REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING IN TRASH</li> <li>e) RECYCLE WASTES WHENEVER POSSIBLE</li> <li>f) DON'T POUR INTO WATERWAYS, STORM DRAINS OR ONTO THE GROUND</li> <li>g) DON'T POUR DOWN THE SINK, DOOR DRAIN OR SEPTIC TANKS</li> <li>h) DON'T BURY CHEMICALS OR CONTAINERS</li> <li>i) DON'T PUEN OUE MICAL S OR CONTAINERS</li> </ul>	;
3.	ALL STORM WATER POLLUTION PREVENTION PRACTICES WILL BE INSTALLED BEFORE ANY OTHER EARTH MOVING OCCURS.		i) DON'T BURN CHEMICALS OR CONTAINERS j) DON'T MIX CHEMICALS TOGETHER	4
4.	ALL STORM WATER POLLUTION PREVENTION ITEMS SHALL BE INSTALLED AS SHOWN OR NOTED IN THESE PLANS.	3.	CONTAINERS SHALL BE PROVIDED FOR THE PROPER COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM PRODUCTS AND ANY HAZARDOUS MATERIALS USED ON-SITE. CONTAINERS SHALL BE COVERED AND NOT LEAKING. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL.	
5.	PLANT TEMPORARY SEEDING AND MULCHING IN ALL AREAS THAT SHALL BE INACTIVE FOR 14 DAYS OR MORE. ALL DISTURBED AND ERODED EARTH SHALL BE REGRADED AND SEEDED WITHIN 7 DAYS WITH SEEDING, AS DEFINED ON THE TEMPORARY SEEDING TABLE WITHIN THESE PLANS, TO ESTABLISH STABILITY AND PROVIDE SEDIMENT CONTROL. WHERE POSSIBLE, TEMPORARY SEEDING GROWTH SHALL NOT BE MOWED UNTIL IT HAS GONE TO SEED FOR 1 YEAR.	4.	CONSTRUCTION DEMOLITION AND DEBRIS (CD&D) WASTE MUST BE DISPOSED OF AT THE MICHIGAN EPA APPROVED CD&D LAND FILL. NO CONSTRUCTION RELATED WASTE MATERIALS ARE TO BE BURIED ON-SITE. BY EXCEPTION, CLEAN FILL (BRICKS, HARDENED CONCRETE, SOIL) MAY BE UTILIZED IN A WAY WHICH DOES NOT ENCROACH UPON NATURAL WETLANDS, STREAMS OR PLAINS OR DECULTING THE CONTAMINATION OF WATERS OF THE STATE	
6.	PERMANENT VEGETATION SHALL BE INSTALLED WITHIN 7 DAYS AT THE COMPLETION OF ANY GRADED AREAS, WEATHER PERMITTING.	5.	RESULT IN THE CONTAMINATION OF WATERS OF THE STATE. HANDLING CONSTRUCTION CHEMICALS : MIXING, PUMPING, TRANSFERRING OR OTHER HANDLING OF CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT,	
7.	PRIOR TO THE TIME THAT DRAINAGE DIVERTS TO INLETS, INLET SEDIMENT FILTERS SHALL BE INSTALLED AT ALL INLET STRUCTURES TO KEEP PIPING SYSTEMS FREE OF SILTATION.		CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH OR STORM DRAIN.	
8.	SILT BARRIERS SHALL BE INSTALLED AROUND ALL EXISTING AND NEW STORM INLETS, CATCH BASINS, YARD DRAINS. INSTALL ROCK CHECK DAMS FOR HEADWALL INLETS FOR STORM WATER POLLUTION PREVENTION.	6.	EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND	
9.	STORM WATER POLLUTION PREVENTION MEASURES SHALL BE INSTALLED AROUND ALL DIRT OR TOPSOIL STOCKPILES AND OTHER TEMPORARILY DISTURBED AREAS AS SHOWN ON THESE PLANS AND AS DIRECTED BY THE ENGINEER.		CATCHING SPILLS. SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL FUEL OIL STORAGE TANKS. THESE AREAS MUST BE INSPECTED EVERY SEVEN DAYS AND WITHIN 24 HRS. OF A 0.5 INCH OR GREATER RAIN EVENT TO ENSURE THERE ARE NO EXPOSED MATERIALS WHICH WOULD CONTAMINATE STORM WATER. SITE OPERATORS MUST BE	. ,
10.	CONTRACTOR SHALL INSPECT ALL SWPP MEASURES DAILY AND LOGGED BY THE CONTRACTOR FOR INSPECTION, LOGGING SHALL BE WEEKLY AND AFTER EVERY ½" RAINFALL EVENT. REPAIR AS NECESSARY TO PREVENT EROSION. SILTATION SHALL BE REMOVED FROM AREAS WHERE FAILURES HAVE OCCURRED AND CORRECTIVE ACTION TAKEN WITHIN 24 HOURS TO MAINTAIN ALL SWPP.		AWARE THAT SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) REQUIREMENTS MAY APPLY. AN SPCC PLAN IS REQUIRED FOR SITES WITH ONE SINGLE ABOVE GROUND TANK OF 660 GALLONS OR MORE, ACCUMULATIVE ABOVE GROUND STORAGE OF 1330 GALLONS OR MORE, OR 42,000 GALLONS OF UNDERGROUND STORAGE. CONTAMINATED SOILS MUST BE DISPOSED OF IN ACCORDANCE WITH ITEM 8.	
11.	SILT BARRIERS, CONSTRUCTION ENTRANCES, AND SILT PERIMETER CONTROLS SHALL REMAIN IN PLACE UNTIL A GOOD STAND OF GRASS HAS BEEN OBTAINED AND/OR PAVING OPERATIONS ARE COMPLETE. CONTRACTOR SHALL KEEP SILT FROM ENTERING ANY STORM DRAINAGE SYSTEM. ONCE SITE HAS BEEN COMPLETELY STABILIZED, ANY SILT IN PIPES AND DRAINAGE SWALES SHALL BE REMOVED WITHIN 10 DAYS.	7.	CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED AWAY FROM ANY WATER CONVEYANCES.	.
12.	TEMPORARY SEDIMENTATION AND STORM WATER POLLUTION PREVENTION MEASURES MUST BE INSPECTED AND AFTER $\frac{1}{2}$ " RAIN EVENTS.	8.	SPILL REPORTING REQUIREMENTS : SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST OR KITTY LITTER AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY	
13.	UTILITY COMPANIES MUST COMPLY WITH ALL STORM WATER POLLUTION PREVENTION MEASURES AS DEFINED ON THE STORM WATER POLLUTION PREVENTION PLANS, DETAILS AND NOTES.		LAND FILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. SPILLS SHALL BE REPORTED TO THE MICHIGAN EPA. SPILLS OF 25 GALLONS OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO THE MICHIGAN EPA, THE LOCAL FIRE	
14.	ALL EXISTING WATER COURSES WITHIN THE PROJECT LIMITS SHALL BE TEMPORARILY PROTECTED DURING LAND CLEARING AND GRADING OPERATIONS. SOILS WITHIN 50 FEET OF SAID WATER COURSES SHALL BE STABILIZED WITHIN 2 DAYS OF THE INITIAL CLEARING / GRADING OPERATION AS SHOWN ON PLANS.	9.	DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE DISCOVERY OF THE RELEASE. ALL SPILLS WHICH CONTACT WATERS OF THE STATE MUST BE REPORTED TO THE MICHIGAN EPA. CONTAMINATED SOILS : IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID,	
15.	IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SEDIMENTATION AND STORM WATER POLLUTION PREVENTION ITEMS AT ALL TIMES.	9.	ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF AT LICENSED SANITARY LAND FILL OR OTHER APPROVED	l
16.	DUST CONTROL SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. IF POSSIBLE GRADING SHALL BE DONE BY PHASING. IF PHASING IS NOT AN OPTION, DUST SHALL BE CONTROLLED WITH WATER DURING EARTHWORK. AFTER EARTHWORK OPERATIONS, THE EXPOSED SOILS SHALL BE COVERED WITH STRAW OR MULCH UNTIL SEEDED. SEE DETAIL WITHIN THESE PLANS. OIL IS NOT TO BE USED AS A DUST SUPPRESSANT.	10.	PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY (NOT A CONSTRUCTION/DEMOLITION DEBRIS LAND FILL). NOTE THOSE STORM WATER RUNOFFS ASSOCIATED WITH CONTAMINATED SOILS ARE NOT BE AUTHORIZED UNDER THE MICHIGAN EPA GENERAL STORM WATER PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITIES. OPEN BURNING : NO OPEN BURNING.	
17.	ANY DISCHARGE OF PETROLEUM OR PETROLEUM PRODUCTS OF LESS THAN 25 GALLONS ONTO A PERVIOUS SURFACE SHALL BE LEGALLY REMOVED AND PROPERLY TREATED OR PROPERLY DISPOSED OF, OR OTHERWISE REMEDIATED, SO THAT NO CONTAMINATION FROM THE DISCHARGE REMAINS ON-SITE.	11.	DUST CONTROL OR DUST SUPPRESSANTS SHALL BE USED TO PREVENT NUISANCE CONDITIONS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND IN A MANNER, WHICH PREVENT A DISCHARGE TO WATERS OF THE STATE. SUFFICIENT DISTANCE MUST BE PROVIDED BETWEEN APPLICATIONS AND NEARBY BRIDGES, CATCH BASINS, AND OTHER WATERWAYS. APPLICATION (EXCLUDING WATER) MAY NOT OCCUR	
18.	IN THE EVENT OF A LARGE PETROLEUM SPILL (25 OR MORE GALLONS) CONTRACTOR MUST CONTACT THE MICHIGAN EPA. THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) WITHIN 30 MINUTES OF A SPILL OF 25 OR MORE GALLONS.	12.	WHEN RAIN IS IMMINENT AS NOTED IN THE SHORT TERM FORECAST. USED OIL MAY NOT BE APPLIED FOR DUST CONTROL. OTHER AIR PERMITTING REQUIREMENTS : CERTAIN ACTIVITIES ASSOCIATED WITH	
19.	CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT FACILITY SHALL BE UTILIZED, IF CONDITIONS ARE SUCH THAT MUD IS COLLECTING ON VEHICLE TIRES, THE TIRES MUST BE CLEANED BEFORE THE VEHICLES ENTER THE PUBLIC ROADWAY. THE SITE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING OR FLOW OF MUD ONTO THE PUBLIC RIGHT-OF-WAY. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO THE ROADWAY MUST BE REMOVED PROMPTLY.	12.	CONSTRUCTION WILL REQUIRE AIR PERMITS INCLUDING BUT NOT LIMITED TO: MOBILE CONCRETE BATCH PLANTS, MOBILE ASPHALT PLANTS, CONCRETE CRUSHERS, LARGE GENERATORS, ETC. THESE ACTIVITIES WILL REQUIRE SPECIFIC THE MICHIGAN EPA AIR PERMITS FOR INSTALLATION AND OPERATION. OPERATORS MUST SEEK AUTHORIZATION FROM THE CORRESPONDING DISTRICT OF THE EPA. FOR DEMOLITION OF ALL COMMERCIAL SITES, A NOTIFICATION FOR RESTORATION AND DEMOLITION MUST BE SUBMITTED TO THE MICHIGAN EPA TO DETERMINE IF ASBESTOS CORRECTIVE ACTIONS ARE REQUIRED.	
20.	IF NECESSARY, THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.	13.	PROCESS WASTE WATER/LEACHATE MANAGEMENT : EPA'S CONSTRUCTION GENERAL PERMIT ONLY ALLOWS THE DISCHARGE OF STORM WATER AND DOES NOT INCLUDE OTHER WASTE STREAMS/DISCHARGES SUCH AS VEHICLE AND/OR EQUIPMENT WASHING, ON-SITE SEPTIC LEACHATE CONCRETE WASH OUTS, WHICH ARE CONSIDERED PROCESS WASTEWATERS. ALL PROCESS WASTEWATERS MUST BE COLLECTED AND PROPERLY	
21.	IF NECESSARY, ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN ANY ROAD RIGHT OF WAY DURING CONSTRUCTION.	14.	DISPOSED AT AN APPROVED DISPOSAL FACILITY. IN THE EVENT, LEACHATE OR SEPTAGE IS DISCHARGED; IT MUST BE ISOLATED FOR COLLECTION AND PROPER DISPOSAL AND CORRECTIVE ACTIONS TAKEN TO ELIMINATE THE SOURCE OF WASTE WATER. A PERMIT TO INSTALL (PTI) IS REQUIRED PRIOR TO THE CONSTRUCTION OF ALL CENTRALIZED SANITARY SYSTEMS, INCLUDING SEWER EXTENSIONS, AND SEWERAGE SYSTEMS (EXCEPT THOSE SERVING ONE, TWO, AND THREE FAMILY DWELLINGS) AND	
22.	CONTRACTOR IS RESPONSIBLE FOR PLACING AND MAINTAINING CONSTRUCTION FENCE, SIGNS, ETC. TO WARN AND KEEP PEOPLE OFF SITE FOR THE DURATION OF THE PROJECT.		POTABLE WATER LINES. PLANS MUST BE SUBMITTED AND APPROVED BY THE MICHIGAN EPA. ISSUANCE OF THE MICHIGAN EPA CONSTRUCTION GENERAL STORM WATER PERMIT DOES NOT AUTHORIZE THE INSTALLATION OF ANY SEWERAGE SYSTEM WHERE THE MICHIGAN EPA HAS NOT APPROVED A PTI.	
23.	IF ENCOUNTERED DURING SITE REDEVELOPMENT, ANY OIL/GAS WELLS OR MINE SHAFTS MUST BE PROPERLY ABANDONED, VAULTED AND VENTED IN ACCORDANCE WITH CURRENT REGULATIONS AND SPECIFICATIONS OF ALL GOVERNING AUTHORITIES	15.	PLEASE REFER TO THE LOCAL JURISDICTION STORM WATER MANAGEMENT MANUAL, CURRENT EDITION, FOR ADDITIONAL INFORMATION.	
24.	IF, FOR ANY REASON, THE PROJECT IS SUSPENDED, THE CONTRACTOR SHALL INSURE THAT ALL INSTALLED EROSION MEASURES ARE FUNCTIONING AND PROPERLY MAINTAINED DURING THIS PERIOD, AND THAT ALL BARE SOILS ARE SEEDED AND MULCHED WITH TEMPORARY SEED MIXTURE.	16.	WASTES GENERATED BY CONSTRUCTION ACTIVITIES (I.E. CONSTRUCTION MATERIALS SUCH AS PAINTS, SOLVENTS, FUELS, CONCRETE, WOOD, ETC) MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS. HAZARDOUS AND TOXIC SUBSTANCES ARE USED ON VIRTUALLY ALL CONSTRUCTION SITES. GOOD MANAGEMENT OF THESE SUBSTANCES IS ALWAYS NEEDED.	
25.	<ul> <li>THE FOLLOWING STORM WATER POLLUTION PREVENTION AND SEDIMENT CONTROL MEASURES</li> <li>WHICH WILL BE USED ON THIS SITE INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:</li> <li>a. SILT FENCE</li> <li>b. SILT BARRIERS</li> <li>c. CONSTRUCTION ENTRANCE</li> </ul>			

CONSTRUCTION ENTRANCE CONCRETE WASHOUT FACILITY

#### CONSTRUCTION SEQUENCE

- DURING PRECONSTRUCTION MEETING ALL EROSION & SEDIMENT CONTROL FACILITIES & PROCEDURES SHALL BE DISCUSSED.
- G OF HAZARDOUS AND CONSTRUCTION INSTALL CONSTRUCTION ENTRANCE AS DETAILED ON PLANS. TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED AROUND PERIMETER OF CONSTRUCTION SITE. WHERE THERE IS EXISTING FENCE ALONG THE PERIMETER OF THE SITE, IT CAN BE UTILIZED. FENCING SHALL BE USED TO RESTRICT OUTSIDE TRAFFIC TO SITE.
  - DELIVER CONSTRUCTION TRAILER TO SITE AND INSTALL TEMPORARY POWER AND TELEPHONE, IF REQUIRED. TEMPORARY UTILITY SERVICES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
  - 3. STAKE AND/OR FLAG LIMITS OF CLEARING.
  - 4. CLEARING & GRUBBING, AS NECESSARY, FOR INSTALLATION OF PERIMETER CONTROLS INSTALL SILT PERIMETER CONTROLS AS SHOWN ON PLANS. SILT PERIMETER CONTROLS SHALL BE INSTALLED LEVEL, ALONG THE CONTOURS, WITH ENDS TURNED UPSLOPE TO PREVENT CONCENTRATED FLOW AT THE SILT PERIMETER CONTROLS.
  - INSTALL TEMPORARY SILT INLET PROTECTION ON ALL EXISTING CATCH BASINS AND INLETS, AS DESIGNATED IN THE PLANS. REMOVAL OF SILT INLET PROTECTION FROM DESIGNATED INLETS CAN ONLY OCCUR WHEN A STRUCTURE IS REMOVED, AND AS REQUIRED BY THE PROGRESSION OF THE DEMOLITION AND CONSTRUCTION.
  - CLEARING & GRUBBING, AS NECESSARY, FOR INSTALLATION OF TEMPORARY SEDIMENT TRAP/BASIN. INSTALL TEMPORARY SEDIMENT TRAP/BASIN, IF REQUIRED, AS DETAILED IN THE PLANS. CONSTRUCT AND MAINTAIN TEMPORARY DIVERSION SWALE AND / OR DIVERSION BERM DURING FILLING & GRADING ACTIVITIES.
  - CLEARING & GRUBBING THE REMAINING SITE AS NECESSARY. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR REUSE, OR REMOVED TO AN APPROVED OFFSITE SPOIL AREA.
  - BEGIN FILLING & GRADING AS REQUIRED TO REACH SUBGRADE.
  - UTILIZE DUST CONTROL MEASURES AS REQUIRED TO MINIMIZE AIR-BORNE POLLUTION BY METHODS APPROVED BY THE AUTHORIZING EPA OFFICE.
  - 10. ONCE PAVEMENT GRADES HAVE BEEN ESTABLISHED, AS DESIGNATED ON THE PLANS, THE CONTRACTOR SHALL UTILIZE THESE AREAS FOR STRUCTURE CONSTRUCTION.
- AND COUNTERMEASURES (SPCC) 11. IN PROPOSED GRASS AREAS, REPLACE TOPSOIL, FINE GRADE AND SEED, AS REQUIRED. STABILIZE ALL DISTURBED AREAS WITH PERMANENT SEED AND MULCHING OR TEMPORARY SEEDING IMMEDIATELY UPON REACHING FINAL GRADE.
  - 12. CONSTRUCT UNDERGROUND UTILITY WORK INCLUDING STORM DRAINAGE FACILITIES. UPON INSTALLATION OF STORM DRAINAGE CATCH BASINS, YARD DRAINS AND INLETS, INSTALL REQUIRED INLET PROTECTION.
  - 13. DO NOT REPLACE ANY TOPSOIL, SEED OR INSTALL FINAL PAVEMENT PRIOR TO COMPLETION OF BUILDING SHELL. SHOULD SITEWORK BE COMPLETED PRIOR TO THIS DATE, MULCH DISTURBED AREAS TO BE PLANTED AND INSTALL STONE SUBBASE IN DISTURBED AREAS TO BE PAVED.
- PAVEMENT SHALL BE ABSORBED WITH 14. FOLLOWING COMPLETION OF BUILDING SHELL AND PAVEMENT INSTALLATION. BEGIN LANDSCAPE INSTALLATION.
- POUNDS REQUIRE SPECIAL HANDLING. 15. COMPLETE SITEWORK, PAVEMENT MARKINGS AND FINAL CLEAN-UP. RESEED ANY AREAS THAT MAY REQUIRE ATTENTION IMMEDIATELY. NOTE THAT LAWN AREAS WILL NOT BE DEEMED STABLE UNTIL A MINIMUM 80% VEGETATIVE DENSITY HAS BEEN ACHIEVED.
- HICH CONTACT WATERS OF THE STATE 16. MAINTAIN EROSION & SEDIMENTATION CONTROL MEASURES UNTIL THE SITE HAS BEEN COMPLETELY STABILIZED. ALL AREAS OF VEGETATIVE SURFACE, WHETHER PERMANENT OR TEMPORARY, SHALL BE CONSIDERED TO BE IN PLACE AND FUNCTIONAL WHEN THE REQUIRED UNIFORM RATE OF COVERAGE (80%) IS OBTAINED.
- ITARY LAND FILL OR OTHER APPROVED 17. REMOVE SEDIMENT CONTROLS.
- NOTE THOSE STORM WATER RUNOFFS 18. THE FOLLOWING ITEMS MUST BE COMPLETED IN ORDER BY THE CONTRACTOR, ONCE THE SITE HAS BEEN DEEMED STABLE:
  - REMOVE CONSTRUCTION ENTRANCE PRIOR TO COMPLETION OF PAVING
  - SITE CLEAN UP RESEED ANY AREAS THAT REQUIRE ADDITIONAL SEED
  - SILT FENCE SHOULD BE CLEANED, REMOVED, BACKFILLED AND SEEDED WITH PERMANENT SEEDING.
  - e) VERIFY POSITIVE DRAINAGE FLOW IN ALL DRAINAGE STRUCTURES, REPAIR AS NECESSARY.

\* YEARLY INSPECTIONS, COMPLETED BY MAY 31ST OF EACH YEAR, MUST BE DOCUMENTED. COPIES SHOULD BE SENT TO THE LOCAL CITY AS WELL AS THE THE LOCAL COUNTY SOIL AND WATER CONSERVATION DISTRICT.

> ONLY APPROVED SIGNED PLANS BY THE LOCAL SWCD ARE TO BE USED FOR CONSTRUCTION.

CONTRACTORS INSPECTOR SHALL BE A QUALIFIED INDIVIDUAL. SITE INSPECTIONS SHALL BE DONE WEEKLY AND WITHIN 24 HRS AFTER EVERY RAINFALL EVENT EXCEEDING 1/2" OF RAINFALL. ALL NECESSARY REPAIRS SHOULD BE IMPLEMENTED IMMEDIATELY AFTER SUCH INSPECTIONS.

CONTRACTOR'S INSPECTOR SHALL BE RESPONSIBLE FOR PREPARING AND SIGNING WEEKLY AND ALL INTERMEDIATE EROSION CONTROL INSPECTION REPORTS AFTER EVERY INSPECTION. SUCH REPORTS SHALL BE MADE AVAILABLE TO OWNER, ENGINEER AND CITY / STATE OFFICIALS UPON THEIR REQUEST.

REPORTS SHALL BE KEPT FOR 3 YEARS AFTER TERMINATION OF THE CONSTRUCTION ACTIVITIES.

CONTRACTOR MAY SUBMIT A WAIVER REQUEST TO THE STATE EPA FOR A REDUCTION TO MONTHLY INSPECTIONS IF THE SITE WILL BE STABILIZED DORMANT SITE FOR A LONG PERIOD.

ONLY A QUALIFIED INSPECTION PERSONNEL IS TO PERFORM THE INSPECTIONS.

FOR BMPS THAT REQUIRE REPAIR OR MAINTENANCE - NON SEDIMENT POND BMPS ARE TO BE REPAIRED WITHIN 3 DAYS OF INSPECTION AND SEDIMENT PONDS ARE TO BE REPAIRED OR CLEANED OUT WITHIN 10 DAYS OF INSPECTION.

FOR BMPS THAT DO NOT MEET THE INTENDED FUNCTION, A NEW BMP SHALL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION.

FOR MISSING BMPS REQUIRED, THE MISSING BMPS SHALL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION.

STORM WATER POLLUTION PREVENTION PLAN NARRATIVE

#### PROJECT DESCRIPTION

THE PROPOSED PROJECT SITE WILL BE HOME TO A NEW TACO BELL SITE. PROPOSED CONSTRUCTION WILL CONSIST OF A TACO BELL BUILDING (APPROX. FOOTPRINT = 1,900 S.F.), TRASH ENCLOSURE, ASPHALT PARKING LOT, CONCRETE PAVEMENT, CONCRETE WALK, SITE LIGHTING, AND OTHER ASSOCIATED SITE AMENITIES.

PROJECT COMPLETION STATISTICS

PROJECT SIZE: "OTAL DISTURBED AREA:		0.87 ACRES 0.87 ACRES
EXISTING LAND USE FOR THE SITE	IS FARM LAND.	
ESTIMATED PRE-CONSTRUC ESTIMATED PRE-CONSTRUC PRE-CONSTRUCTION RUN-C	CTION IMPERVIOUS PERCENT:	0.00 ACRES 0.0% 0.00
PROPOSED LAND USE WILL BE A T	ACO BELL AND AMENITY IMPROVEMENTS.	
ESTIMATED POST-CONSTRU ESTIMATED POST-CONSTRU POST-CONSTRUCTION RUN	JCTION IMPERVIOUS PERCENT:	0.59 ACRES 68% 0.76
PROJECT LOCATION:		
ATITUDE I3.0130°	LONGITUDE -83.5563°	
EXISTING SITE SOIL TYPES:		

CONOVER LOAM CvraaB:

REFERENCE: USDA NATIONAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY.

## SESC CONSTRUCTION AND MAINTENANCE SCHEDULE

### Project Name:\_ TACO BELL - DAVISON, MI Anticipated Start Date: T.B.D.

Anticipated End Date: T.B.D.

#### Construction Schedule

Construction Sequence	Jan	Feb	Mar	Apr	May	Jun	Ju	Aug	Sep	Oct	Nov	Dec	Notes
Temporary SESC Measures				-					_				
Building Demolition							-						
Strip and Stockpile		33		3				1	3;}				
Rough Grading		.)					.)		(i)				
Underground Utilities								U	ji – j				
Road Installation				4									
Building Construction													
Permanent SESC Measures	1			8									
Final Grade	1 1	1					Ĵ	8				î î	
Landscaping		Ŭ.					Ŭ.	1			i — i	l i	

#### Maintenance Schedule

Maintenance Sequence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Notes
Street Sweeping						[							
Silt Fencing						<u>[</u> ]							
Maintain Buffer Strips		J		4		)							
Inlet Structures	-88							3 · · · · ·	3				
Seeding and Mulch				8		i i	1					i i	
Sediment Basins		Ĵ					Ĵ.					1 (	
Rip-Rap		0					0	1					
Remove Temporary Measures		.)				)			.)				

#### Seeding and Planting Schedule

Mix #	Common Name	Natural Drainage Class Suitability	Suitable Uses	Rate Ib/acre
to Tables 4 & 6 in M	DEQ "Guidelines for Vegetative		ith this packet)	
Mix #	Common Name	Natural Drainage Class Suitability	Suitable Uses	Rate Ib/acre
s: (Refer to Table 7 i	in MDEQ "Guidelines for Vege	tative Erosion control" include	ed with this packet)	
Quantity	Common Name	Scientific Name	Drainage Class	Notes
	2		1	
	to Tables 4 & 6 in M Mix # S: (Refer to Table 7	to Tables 4 & 6 in MDEQ "Guidelines for Vegetative Mix # Common Name	Mix # Common Name Class Suitability Class Suitability Class Suitability Class Suitability Common Name Mix # Common Name Class Suitability S: (Refer to Table 7 in MDEQ "Guidelines for Vegetative Erosion control" included	Mix #       Common Name       Class Suitability       Suitable Uses         Image: Class Suitability       Image:

Trees and Shrub	S: (Refer to Table 7	in MDEQ "Guidelines for Veget Common Name	ative Erosion control" include Scientific Name	ed with this packet) Drainage Class	Notes
Area on P <b>l</b> an	Mix #	Common Name	Natural Drainage Class Suitability	Suitable Uses	Rate Ib/acre
Permanent: (Refe	r to Tables 4 & 6 in M	DEQ "Guidelines for Vegetative		ith this packet)	
Area on Plan	Mix #	Common Name	Natural Drainage Class Suitability	Suitable Uses	Rate Ib/acre

Permanent: (Refer to Tables 4 & 6 in MDEQ "Guidelines for Vegetative Erosion control" included with this packet)         Area on Plan       Mix #       Common Name       Natural Drainage Class Suitability       Suitable Uses       Rate Ib/acr			/		9	
Permanent: (Refer to Tables 4 & 6 in MDEQ "Guidelines for Vegetative Erosion control" included with this packet) Area on Plan Mix # Common Name Name Natural Drainage Suitable Lloss Pate Ib/con	Area on Flan	WIX #	Common Name	Class Suitability	Suitable Uses	Rate D/acre
	20 ( )(+12)			Natural Drainage	Names accord	Rate Ib/acr
	Area on Plan	Mix #	Common Name	Natural Drainage Class Suitability	Suitable Uses	Rate Ib/acro

#### WETLAND INFORMATION

THERE ARE NO WETLANDS ON THIS SITE.

FIRST AND SUBSEQUENT RECEIVING STREAM:

INITIAL RECEIVING WATER IS KEARSLEY CREEK AND THE SUBSEQUENT RECEIVING WATER IS THE KEARSLEY RESERVOIR.

CONTROL RATIONAL AND DESCRIPTION

#### WATER QUALITY:

PER THE REQUIREMENTS OF THE CITY OF DAVISON AND GENESEE COUNTY DRAIN COMMISSION -SURFACE WATER MANAGEMENT. THE PROPOSED OVERALL DEVELOPMENT WILL BE REQUIRED TO PROVIDE A POST-CONSTRUCTION WATER QUALITY FEATURE. FOR THE TACO BELL SITE, THE IMPERVIOUS AREA AFTER DEVELOPMENT WILL BE PROVIDED FOR IN THE EXTENDED DETENTION BASIN FOR THE DEVELOPMENT PER THE DEVELOPER'S DESIGN DOCUMENTS.

DETENTION: THE PROPOSED TACO BELL SITE IS A PART OF A LARGER COMMON DEVELOPMENT PLAN, IN WHICH THE DEVELOPMENT HAS AN EXTENDED DETENTION BASIN LOCATED TO THE NORTHWEST OF THE TACO BELL SITE ACCOUNTS FOR THE INCREASE IN RUNOFF FOR THE ENTIRE DEVELOPMENT PER THE DEVELOPER'S DESIGN DOCUMENTS.

TICIPATED	TIMING:	

CONSTRUCTION BEGIN:	T.B.D.
CONSTRUCTION COMPLETE:	T.B.D.
CONTRACTOR: T.B.D.	

CONTACT:

PHONE NUMBER:

CONTRACTOR SHALL MAINTAIN A CONSTRUCTION LOG DOCUMENTING ALL GRADING AND STABILIZATION ACTIVITIES.

CONTRACT DATE BUILDING TYPE: MO T40 PLAN VERSION: BRAND DESIGNER: SITE NUMBER: 313076 STORE NUMBER: TACO BELL 7931 LAPEER ROAD DAVISON, MI 48423

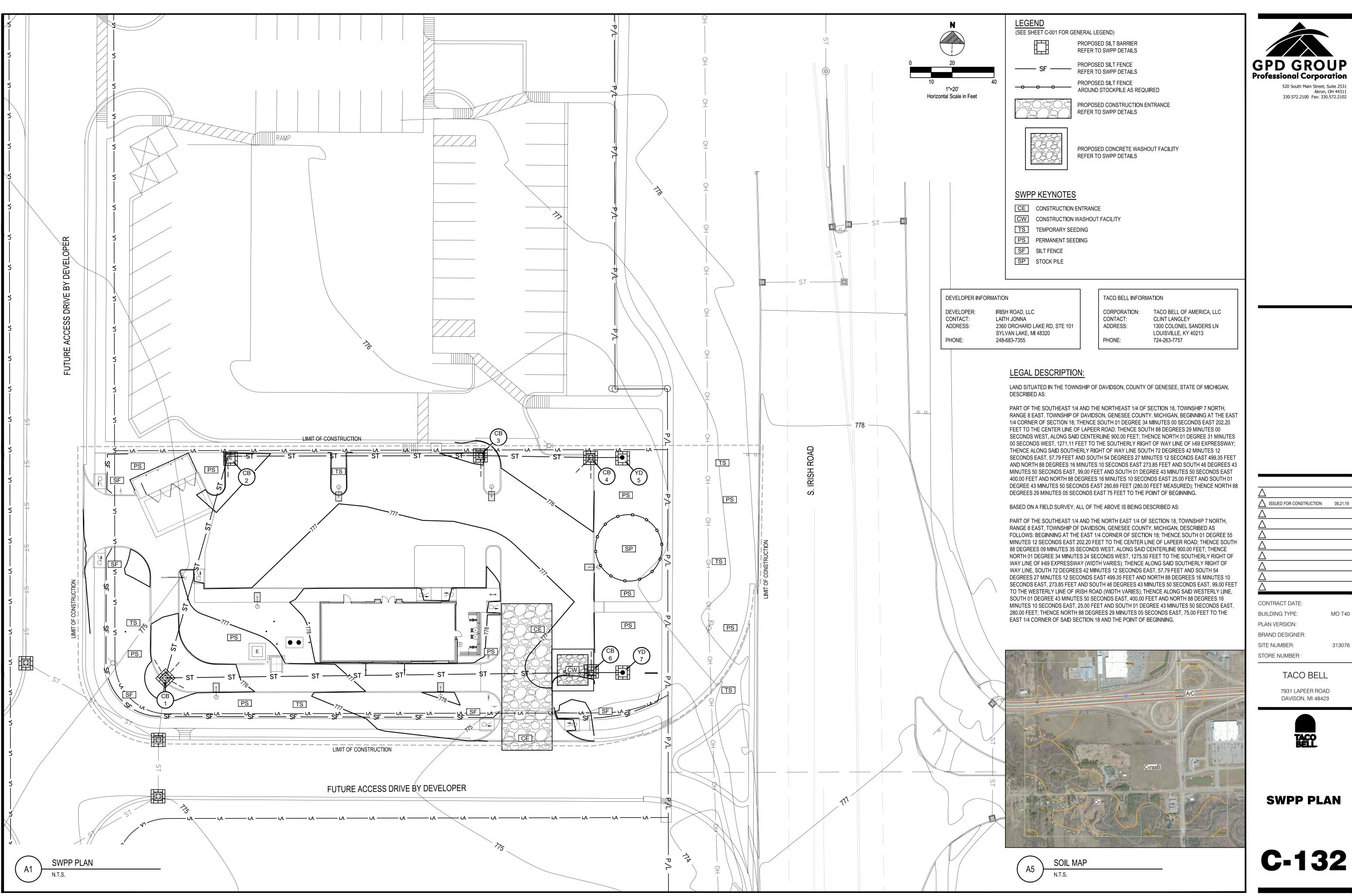
ISSUED FOR CONSTRUCTION 08.21.19











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$\Delta$ issued for construction	08.21.19
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CONTRACT DATE:	
BUILDING TYPE:	MO T40
PLAN VERSION:	
BRAND DESIGNER:	

Vhen Vhy	
Vhy	<ul> <li>Bare soil is exposed to erosive forces from wind and or water.</li> </ul>
	<ul> <li>A cost effective way to prevent erosion by protecting the soil from raindrop impact, flowing water and wind.</li> </ul>
	<ul> <li>Vegetation binds soil particles together with a dense root system,</li> </ul>
Vhere	increasing infiltration thereby reducing runoff volume and velocity.
Vilere	<ul> <li>On all disturbed areas except where non-vegetative stabilization measures are being used or where seeding would interfere with agricultural activity.</li> </ul>
Scheduling	· During the recommended temporary and permanent seeding dates outlined
	<ul> <li>Dormant seeding is acceptable.</li> </ul>
low	1. Site Assessment. Determine site physical characteristics including available
	sunlight, slope, adjacent topography, local climate, proximity to sensitive areas or natural plant communities, and soil characteristics such as natural
	drainage class, texture, fertility and pH.
	<ol> <li>Seed Selection. Use seed with acceptable purity and germination tests that are viable for the planned seeding date. Seed that has become wet, moldy</li> </ol>
	or otherwise damaged is unacceptable. Select seed depending on, location
	and intended purpose. A mixture of native species for permanent cover may provide some advantages because they have coevolved with native
	wildlife and other plants and typically play an important function in the
	ecosystem. They are also adapted to the local climate and soil if properly
	selected for site conditions; can dramatically reduce fertilizer, lime and maintenance requirements; and provide a deeper root structure. When re-
	vegetating natural areas, introduced species may spread into adjacent
	natural areas, native species should be used. Noxious or aquatic nuisance species shall not be used (see list below). If seeding is a temporary soil
	erosion control measure select annual, non-aggressive species such as
	annual rye, wheat, or oats. See MDEQ's "Guidelines for Vegetative
	Erosion Control" or the USDA-NRCS-MICH "Critical Area Planting Guide 342-1" for specific seeding rates by species.
	3. Site Preparation. Final grade or shape area to be seeded. Remove large
	clods, rocks, tree roots, etc. that will interfere with seeding. A spring tooth drag, field tiller, disk or other suitable equipment may be used. When
	feasible, replace the topsoil after grading. If soils are compacted, scarify or
	rake seedbed to a minimum depth of 3 inches and roughen slopes steeper than 3 horizontal to 1 vertical. If needed, divert concentrated flows away
	from seeded areas until vegetation is established.
	4. Soil Amendments. Properly sited native vegetation should not require
	fertilization and, in such instances, fertilizing may promote competition from unwanted species at the expense of natives. Do not apply nitrogen for
	warm season mixes. If fertilizer is needed, fertilize with a low or no
	phosphorus fertilizer when near water, and/or add lime only when necessary for proper establishment and maintenance of vegetation.
	Conduct a soil test to determine required soil amendments if having
	difficulties with vegetation establishment. See Soil Amendments Table below.
	그는 것 같은 것 같은 것 것 같은 것 같은 것 같은 것 같은 것 것 같을 가지 않는 것 같은 것 같을 가지 않는 것 같은 것 같
	<ol><li>Seeding. Apply seed as soon as possible, but within 5 days, after final</li></ol>
	grading, shaping, and/or seedbed preparation by hand broadcasting,
	grading, shaping, and/or seedbed preparation by hand broadcasting, hydroseeding, or using mechanical drills following seeding dates outlined below. Water as needed or possible for successful germination. Apply temporary seeding to disturbed areas within 5 days if final grading and
	grading, shaping, and/or seedbed preparation by hand broadcasting, hydroseeding, or using mechanical drills following seeding dates outlined below. Water as needed or possible for successful germination. Apply
Frosion Contro	grading, shaping, and/or seedbed preparation by hand broadcasting, hydroseeding, or using mechanical drills following seeding dates outlined below. Water as needed or possible for successful germination. Apply temporary seeding to disturbed areas within 5 days if final grading and permanent seeding will be delayed for more than 5 days. Apply temporary
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Trosion Contro	grading, shaping, and/or seedbed preparation by hand broadcasting,         hydroseeding, or using mechanical drills following seeding dates outlined         below. Water as needed or possible for successful germination. Apply         temporary seeding to disturbed areas within 5 days if final grading and         permanent seeding will be delayed for more than 5 days. Apply temporary         of Measures       3.1         1. Seeding         seed daily to dredged spoil piles that will be flattened at a later date if they         do not slope away from the drain except where they will interfere with
crosion Contro	grading, shaping, and/or seedbed preparation by hand broadcasting,         hydroseeding, or using mechanical drills following seeding dates outlined         below. Water as needed or possible for successful germination. Apply         temporary seeding to disturbed areas within 5 days if final grading and         permanent seeding will be delayed for more than 5 days. Apply temporary         of Measures       3.1         1. Seeding         seed daily to dredged spoil piles that will be flattened at a later date if they         do not slope away from the drain except where they will interfere with         plowing tilling or the harvesting of crops. Seed streambanks daily and other
Prosion Contro	<ul> <li>grading, shaping, and/or seedbed preparation by hand broadcasting, hydroseeding, or using mechanical drills following seeding dates outlined below. Water as needed or possible for successful germination. Apply temporary seeding to disturbed areas within 5 days if final grading and permanent seeding will be delayed for more than 5 days. Apply temporary</li> <li>Measures 3.1 1. Seeding</li> <li>seed daily to dredged spoil piles that will be flattened at a later date if they do not slope away from the drain except where they will interfere with plowing tilling or the harvesting of crops. Seed streambanks daily and other disturbed areas within 5 days.</li> <li>Dormant fall seeding. In late fall after the soil temperature remains</li> </ul>
irosion Contro	<ul> <li>grading, shaping, and/or seedbed preparation by hand broadcasting, hydroseeding, or using mechanical drills following seeding dates outlined below. Water as needed or possible for successful germination. Apply temporary seeding to disturbed areas within 5 days if final grading and permanent seeding will be delayed for more than 5 days. Apply temporary</li> <li>Measures 3.1 1. Seeding</li> <li>Seed daily to dredged spoil piles that will be flattened at a later date if they do not slope away from the drain except where they will interfere with plowing tilling or the harvesting of crops. Seed streambanks daily and other disturbed areas within 5 days.</li> <li>Dormant fall seeding. In late fall after the soil temperature remains consistently below 50°F prior to the ground freezing. No seed germination</li> </ul>
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#### TEMPORARY SEEDING DATES

Seed Type	Lower	Lower			Amount (Ibs. per)	
- 1927	Peninsula south of US 10	Peninsula north of US 10	2029	1000 sq. ft.	Acre	
Oats, Barley	April 1 - Sept. 15	April 15 - Aug. 1	May 1- Aug. 1	2	96	
Cereal Rye	Aug. 1 - Oct. 15	Aug. 1 - Oct. 10	Aug. 1 - Nov. 1	3	120	
Wheat	Sept. 20 - Oct. 15	Sept. 10 - Oct. 10	Sept. 10- Oct. 1	3	120	
Buckwheat	June 1 - July 15	June 1 - July15	June 15 - July15	2	75	
Perennia Ryegrass	Aug. 1 - Oct. 15	June 1 - Aug. 1	Aug. 1 - Oct. 1	0.5	20	

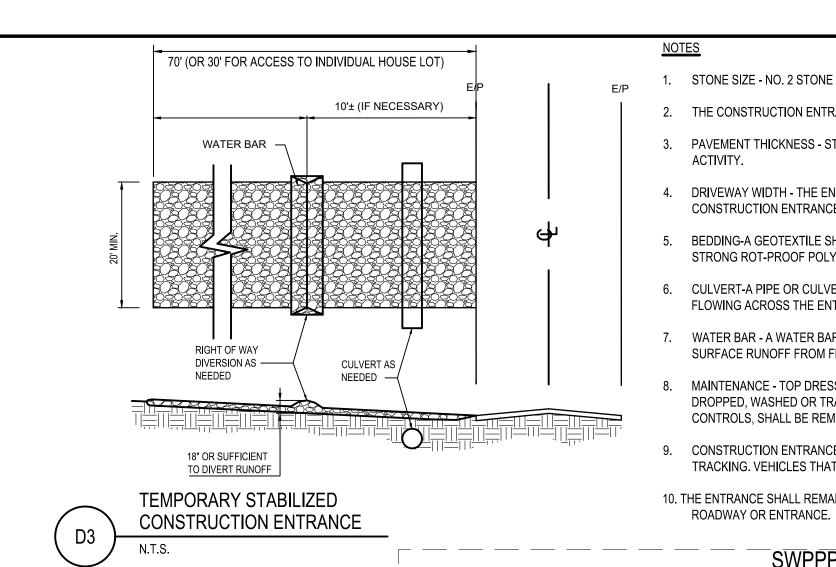
Source: Adapted from USDA NRCS Technical Guide #342 (1999)

3.2

Erosion Control Measures

1. Seeding

REFER TO THE GENESEE COUNTY DRAIN COMMISSIONER SOIL EROSION AND SEDIMENTATION CONTROL FOR MORE INFORMATION.



PROJECT NAME:

SWPPP CONTACT:

PF

#### MULCHING

1) MULCH AND OTHER APPROPRIATE VEGETATIVE PRACTICES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS OF GRADING IF THE AREA IS TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 21 DAYS OR ON AREAS AND PORTIONS OF THE SITE WHICH CAN BE BROUGHT TO FINAL GRADE.

2) MULCH SHALL CONSIST OF ONE OF THE FOLLOWING:

-STRAW SHALL BE UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC. OR 90 LB./1,000 SQ. FT. (TWO TO THREE BALES) THE STRAW MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQ. FT. SECTIONS AND PLACE TWO 45-LB BALES OF STRAW IN EACH SECTION.

-WOOD CELLULOSE FIBER SHOULD BE USED AT 2,000 LB.AC, OR 46 LB/1,000 SQ. FT.

-ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS AND ROLLED EROSION CONTROL PRODUCTS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD MULCH/CHIPS APPLIED AT 10-20 TONS/AC.

3) MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH.

-USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN 6 INCHES.

-USE MULCH NETTINGS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING REQUIREMENTS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE.

-FOR STRAW MULCH. SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET. TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER. ALL APPLICATIONS OF SYNTHETIC BINDERS MUST BE CONDUCTED IN SUCH A MANNER WHERE THERE IS NO CONTACT WITH WATERS OF THE STATE.

-WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB/AC. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB/100 GAL. OF WOOD CELLULOSE FIBER.

### DUST CONTROL

NOTES:

CONSTRUCTION SEQUENCING AND DISTURBING ONLY SMALL AREAS AT A TIME CAN GREATLY REDUCE PROBLEMATIC DUST FROM THE SITE. IF LAND MUST BE DISTURBED, ADDITIONAL TEMPORARY STABILIZATION MEASURES SHOULD BE CONSIDERED PRIOR TO DISTURBANCES.

1) APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 14 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUSE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS.

2) SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURERS INSTRUCTIONS.

3) GRADED ROADWAYS AND OTHER SUITABLE AREAS WILL BE STABALIZED USING CRUSHED STONE OR COARSE GRAVEL AS SOON AS PRACTICABLE AFTER REACHING AN INTERIM OR FINAL GRADE. CRUSHED STONE OR COARSE GRAVEL CAN BE USED AS A PERMANENT COVER TO PROVIDE CONTROL OF SOIL EMISSIONS.

4) EXISTING WINDBREAK VEGETATION SHALL BE MARKED AND PRESERVED. SNOW FENCING OR OTHER SUITABLE BARRIER MAY BE PLACED PERPENDICULAR TO PREVAILING AIR CURRENTS AT INTERVALS OF ABOUT 15 TIMES THE BARRIER HEIGHTS TO CONTROL AIR CURRENTS AND BLOWING SOIL.

5) CALCIUM CHLORIDE MAY BE APPLIED BY MECHANICAL SPREADER AS LOOSE, DRY GRANULES OR FLAKES AT A RATE THAT KEEPS THE SURFACE MOIST BUT NOT SO HIGH AS TO CAUSE WATER POLLUTION OR PLANT DAMAGE. APPLICATION RATES SHOULD BE STRICTLY IN ACCORDANCE WITH SUPPLIERS' SPECIFIED RATES.

6) WHEN TEMPORARY DUST CONTROL MEASURES ARE USED; REPETITIVE TREATMENT SHOULD BE APPLIED AS NEED TO ACCOMPLISH CONTROL.

7) PAVED AREAS THAT HAVE ACCUMULATED SEDIMENT FROM CONSTRUCTION SHOULD BE CLEANED DAILY, OR AS NEEDED, UTILIZING A STREET SWEEPER OR BUCKET-TYPE ENDLOADER OR SCRAPER.

> SITE INSPECTIONS SHALL BE DONE WEEKLY AND AFTER EVERY RAINFALL EVENT EXCEEDING 1/2" OF RAINFALL. ALL NECESSARY REPAIRS SHOULD BE IMPLEMENTED IMMEDIATELY AFTER SUCH INSPECTIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING WEEKLY EROSION CONTROL INSPECTION REPORTS. SUCH REPORTS SHALL BE MADE AVAILABLE TO OWNER, ENGINEER AND CITY / STATE OFFICIALS UPON THEIR REQUEST.

AMENDMENT No.	DATE OF AMENDMENT	AMENDMENT PREPARED BY [NAME(S) AND TITLE]	
1			
2			
3			
5			
4			
5			
6			
ROJECT NA	AME:		
WPPP CON			

DATE GRADING ACTIVITY INITIATED	TEMPORARY OF PERMANENT ACTIVITY	LOCATION AND DESCRIPTION OF THE GRADING ACTIVITY	DATE GRADING ACTIVITY CEASED	DATE OF STABILIZATION MEASURES INITIATED	DESCRIPTION OF THE STABILIZATION MEASURE AND LOCATION

1. STONE SIZE - NO. 2 STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.

2. THE CONSTRUCTION ENTRANCE SHALL COINCIDE WITH THE PROPOSED DRIVE AS SHOWN ON THE PLAN.

3. PAVEMENT THICKNESS - STONE LAYER SHALL BE 6" THICK FOR STANDARD DUTY ACTIVITY AND 10" THICK FOR HEAVY DUTY

4. DRIVEWAY WIDTH - THE ENTRANCE SHALL BE AT LEAST 20' WIDE. CONTRACTOR SHALL ENSURE ALL VEHICLES UTILIZE THE CONSTRUCTION ENTRANCE UNTIL PAVEMENT IS IN PLACE.

5. BEDDING-A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE SPECIFICATIONS SHOWN BELOW.

6. CULVERT-A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.

7. WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.

MAINTENANCE - TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.

CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SHALL BE RESTRICTED FROM MUDDY AREAS.

10. THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT

## SWPPP AMENDMENT LOG

DESCRIPTION OF THE AMENDMENT

## NG AND STABILIZATION LOG

\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_



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	08.21.19
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CONTRACT DATE:	
BUILDING TYPE:	MO T40
PLAN VERSION:	
BRAND DESIGNER:	
SITE NUMBER:	313076
STORE NUMBER:	

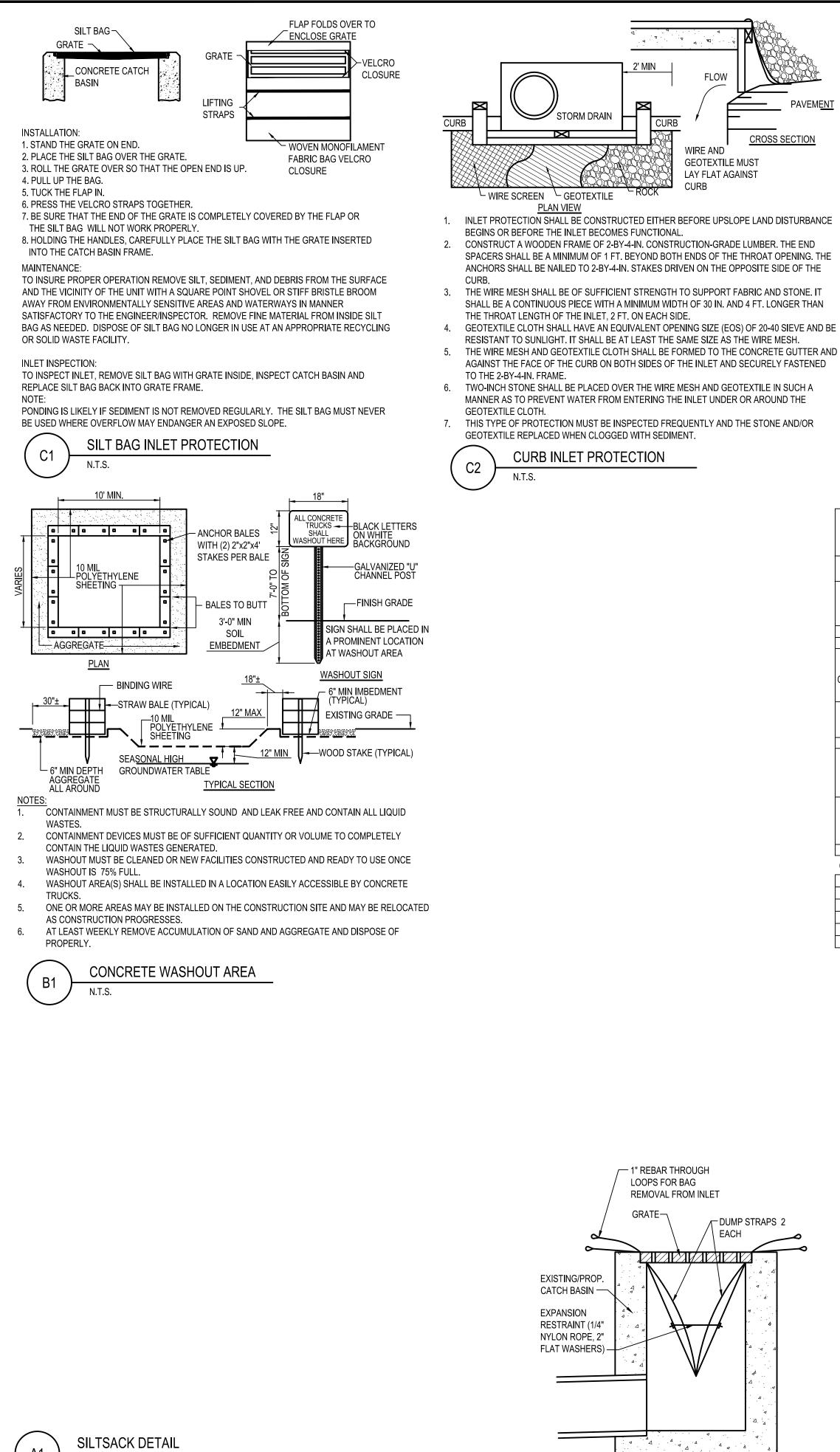
ΓΑΟΟ	BELL	

7931 LAPEER ROAD DAVISON, MI 48423

**SWPP NOTES** 

**AND DETAILS** 

C-133



N.T.S.

#### PAVEMENT

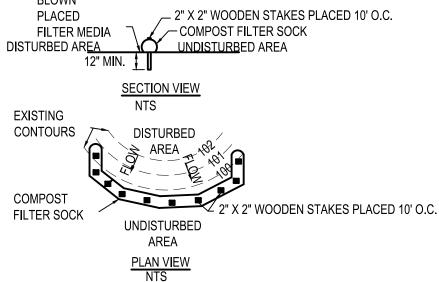
## COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS

MATERIAL TYPE	3 mil HDPE	5 mil HE	OPE	5 mil HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (MFPP)	
MATERIAL	РНОТО-	PHOT	)-	BIO-	PHOTO-	PHOTO-	
CHARACTERISTICS	DEGRADABLE	DEGRAD/	ABLE	DEGRADABLE	DEGRADABLE	DEGRADABLE	
0001/	401	12"		12"	12"	12"	
SOCK	12"	18"		18"	18"	18"	
DIAMETERS	18"	24"		24"	24"	24"	
	0./01	32"		32"	32"	32"	
MESH OPENING	3/8"	3/8"		3/8"	3/8"	1/8"	
TENSILE STRENGTH		26 PS		26 PSI	44 PSI	202 PSI	
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	% AT 1000 HR.	23% A 1000 H			100% AT 1000 HR.	100% AT 1000 HR.	
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTH		6 MONTHS	1 YEAR	2 YEARS	
			T۷	VO-PLY SYSTEI			
					IDPE BIAXIAL NET		
INNER	CONTAINMENT				NTINUOUSLY WOUN		
NETTIN				FUSION-WELDED JUNCTURES			
			3/4" X 3/4" MAX. APERTURE SIZE				
					E POLYPROPYLEN		
001	FER FILTRATION	N	(000)		ON-WOVEN FLEEC		
MES	SH	-					
					MAX. APERTURE S	IZE MONTHS OR LESS	

SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS COMPOST SHALL MEET THE FOLLOWING STANDARDS:

ORGANIC MATTER CONTENT	80% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
рН	5.5 - 8.0
MOISTURE CONTENT	35% - 55%
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN
SOLUBLE SALT CONCENTRATION	5.0 dS MAXIMUM

BLOWN



#### ADAPTED FROM FILTREXX

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES ½ THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH ½ INCH STORM RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE. THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

> COMPOST FILTER SOCK N.T.S.

A3

#### NOTES:

1) SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.

2) ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.

3) TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.

4) WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.

5) WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.

6) THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 IN. ABOVE THE ORIGINAL GROUND SURFACE.

7) THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6 INCH OVERLAP, AND SECURELY SEALED.

8) POSTS SHALL BE A MINIMUM OF 5 FEET LONG, 2 INCHES IN DIAMETER AND SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND. WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.

9) THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.

10) THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 IN. OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6 IN. DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.

11) WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS.

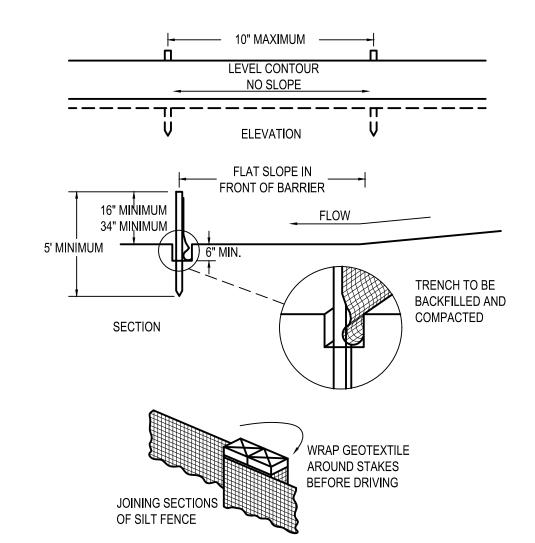
12) THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

13) SEAMS BETWEEN SECTION OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.

14) SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: A) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, B) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR C) OTHER PRACTICES SHALL BE INSTALLED.

#### MAINTENANCE:

SILT FENCE SHOULD BE INSPECTED REGULARLY AND FREQUENTLY AS WELL AS AFTER EACH RAINFALL EVENT TO INSURE THAT THEY ARE INTACT AND THERE ARE NO GAPS AT THE FENCE-GROUND INTERFACE OR TEARS ALONG THE LENGTH OF THE FENCE. IF GAPS OR TEARS ARE FOUND. THEY SHOULD BE REPAIRED OR THE FABRIC REPLACED IMMEDIATELY. ACCUMULATED SEDIMENTS SHOULD BE REMOVED FROM THE FENCE BASE WHEN THE SEDIMENT REACHES ONE-THIRD TO ONE-HALF THE HEIGHT OF THE FENCE. SEDIMENT REMOVAL SHOULD OCCUR MORE FREQUENTLY IF ACCUMULATED SEDIMENT IS CREATING NOTICEABLE STRAIN ON THE FABRIC AND THERE IS THE POSSIBILITY OF THE FENCE FAILING FROM A SUDDEN STORM EVENT. WHEN THE SILT FENCE IS REMOVED, THE ACCUMULATED SEDIMENT SHOULD BE REMOVED.

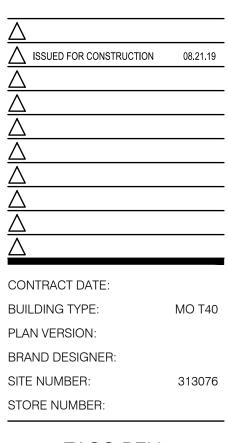


CRITERIA FOR GEOTEXTILE FABRIC SILT FENCE, PER CURRENT STATE'S DOT SPECIFICATIONS.

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LB. MINIMUM	ASTM D 4632
MINIMUM BURST STRENGTH	200 PSI MINIMUM	
MINIMUM PERMITTNITY	1x10-2sec-1	ASTM D 4491
APPARENT OPENING SIZE	AOS <u>&lt;</u> 0.84 mm	ASTM D 4751
UV EXPOSURE STRENGTH RETENTIOL	70%	ASTM G 4335
MAXIMUM ELONGATION AT 60 LBS.	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS (220N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS (180N)	ASTM D 4533

SILT FENCE Α4 N.T.S.







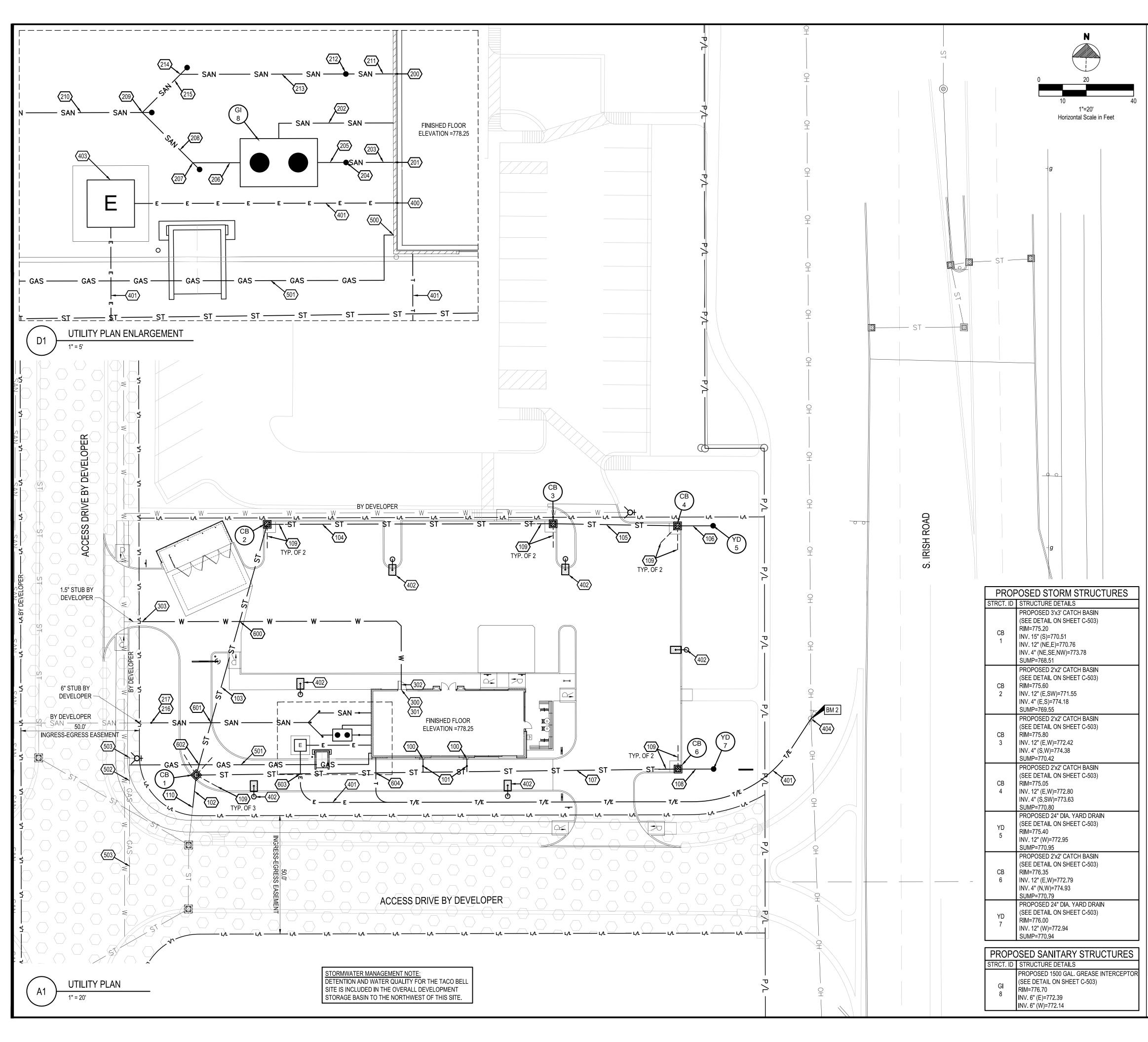
SWPP NOTES

**AND DETAILS** 

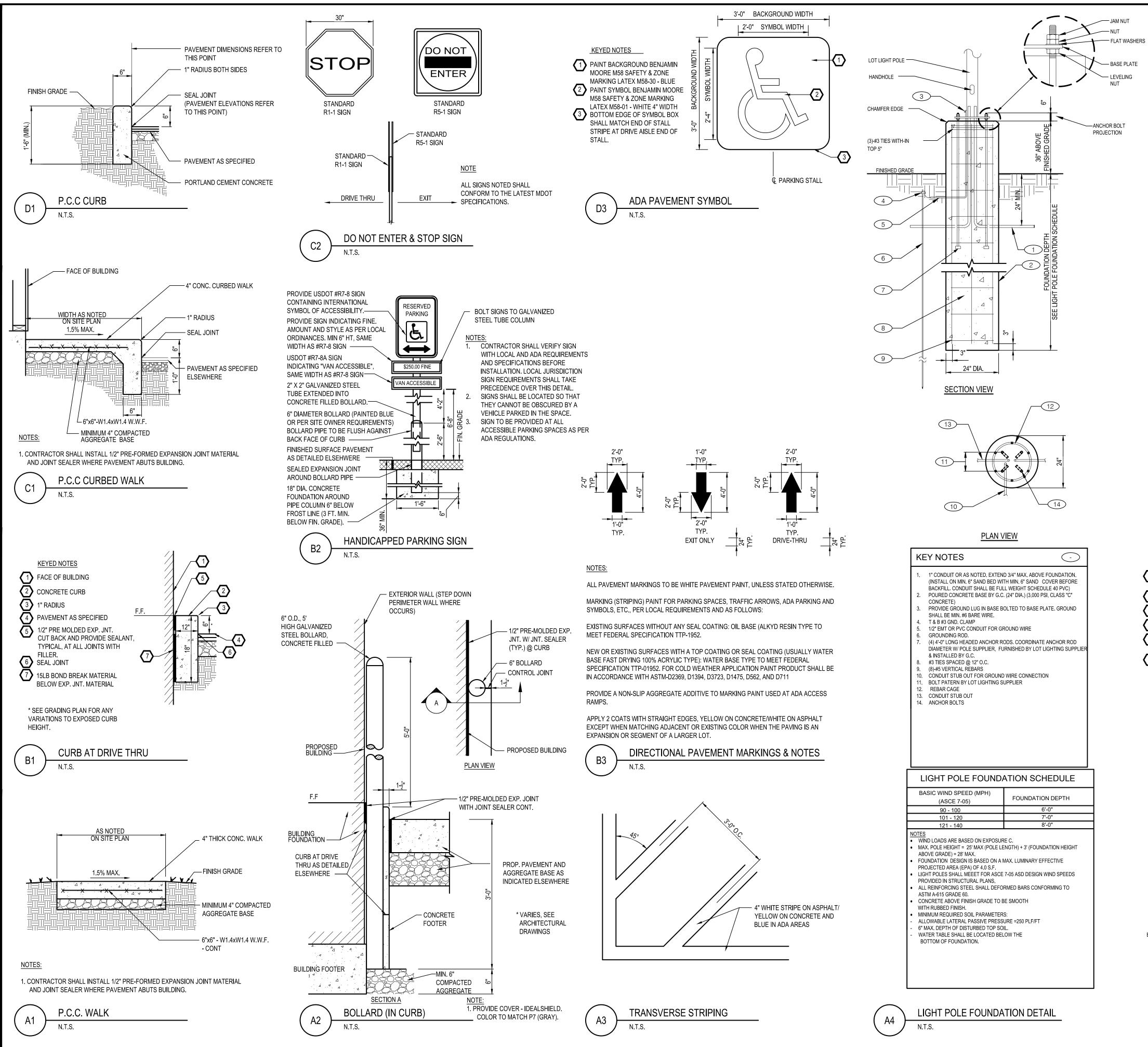
C-134

7931 LAPEER ROAD

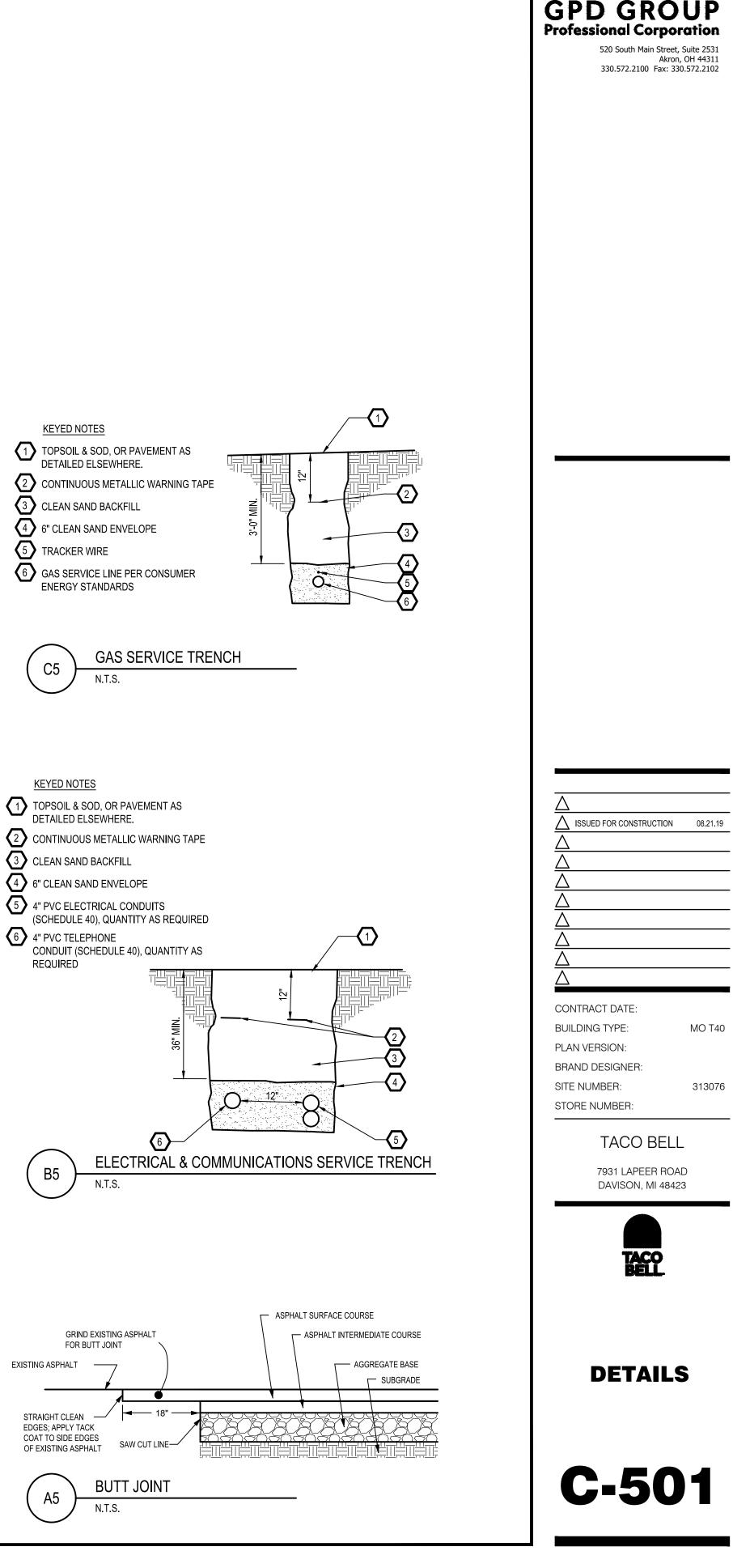
TACO BELL

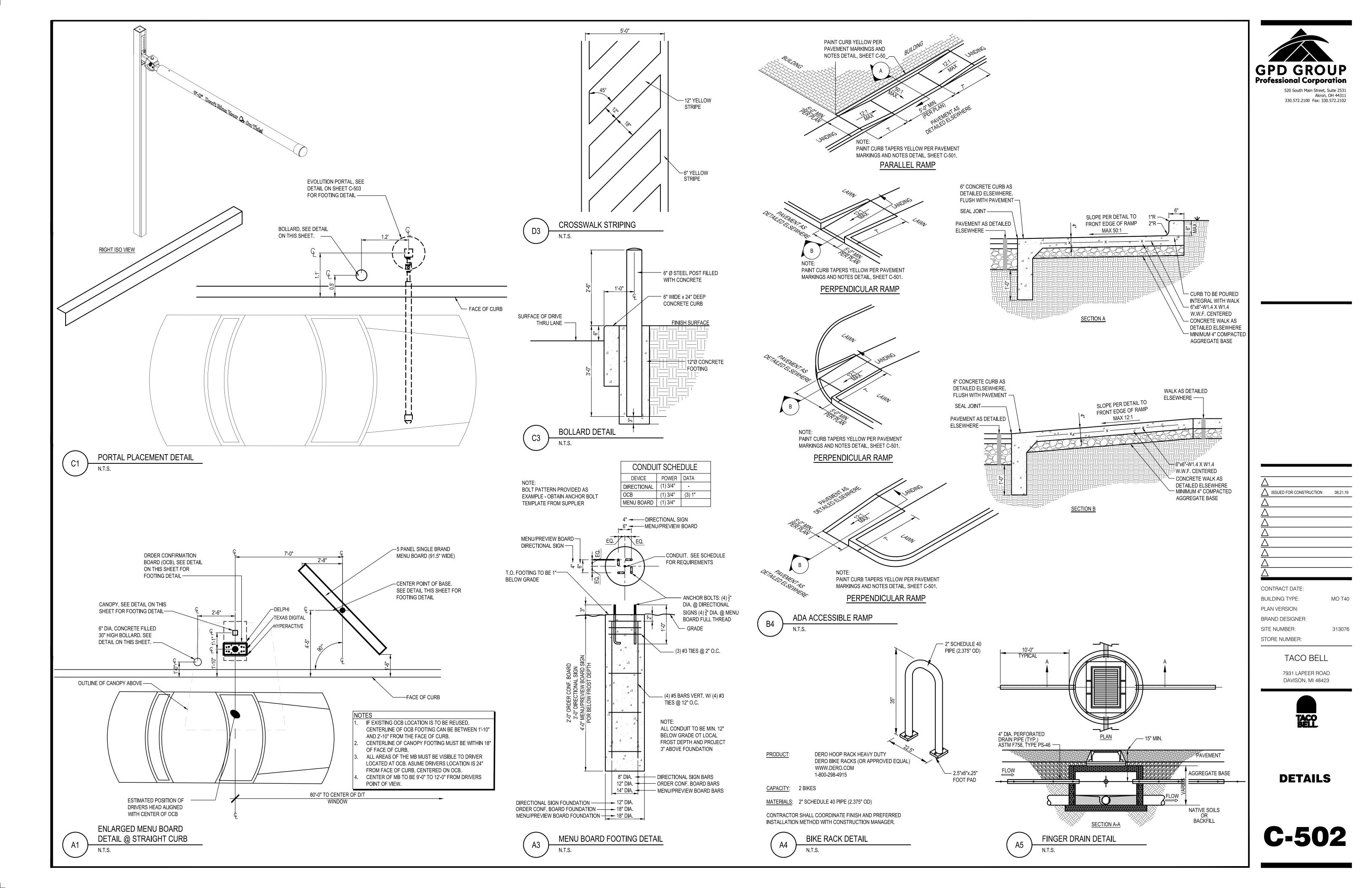


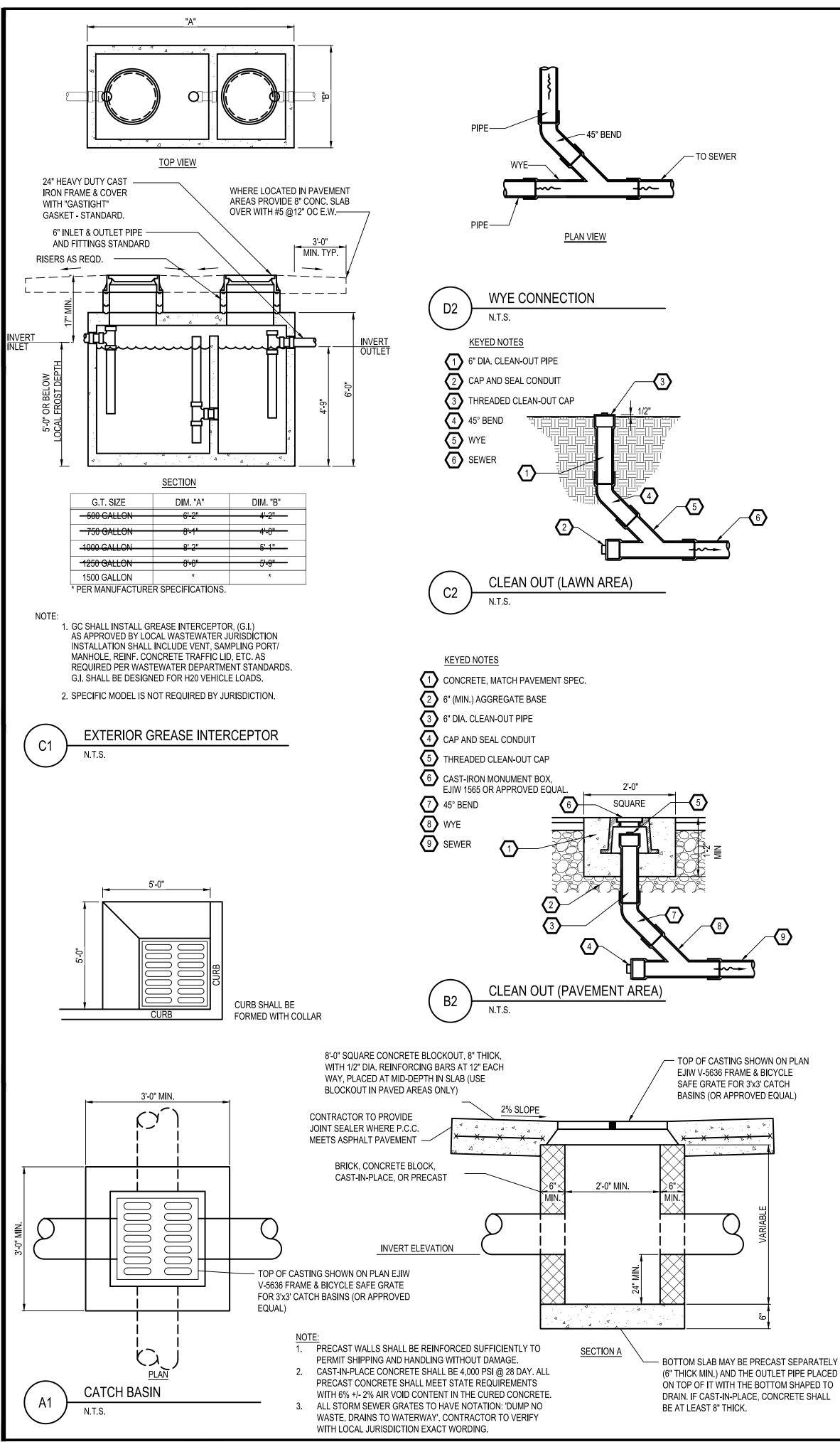
PLA	N KEYNOTES 🛲		
<u>STO</u>	RM		
100. 101.	REQUIRED TO CONNECT PROPOS LINE. STORM PIPES SHALL BE INS INTO PROPOSED STORM LINE. AL FEET. THE CONTRACTOR SHALL I	G = 773.25. SDR 35 PVC STORM PIPES AND SUPPLY FITTINGS AS ED DOWNSPOUT CONNECTIONS TO PROPOSED STORM STALLED AT A MINIMUM OF 2.0% SLOPES AND CONNECT L PIPES SHALL MAINTAIN A MINIMUM COVER OF FOUR (4) FIELD VERIFY ALL PROPOSED PIPE LOCATIONS AND R IMMEDIATELY IF THERE ARE ANY ISSUES MAINTAINING	<b>GPD GROUP</b> <b>Professional Corporation</b> 520 South Main Street, Suite 2531
102. 103. 104. 105. 106.	POSITIVE DRAINAGE. CONTRACT	DR SHALL INSTALL CLEANOUTS AS SHOWN ON PLAN (3' FINISHED PAVEMENT GRADE, SEE SHEET C-503. 0.32%. 0.72%. 0.72%. ).72%.	Akron, OH 44311 330.572.2100 Fax: 330.572.2102
100. 107. 108. 109. 110.	PROPOSED 203 L.F. OF 12" HDPE ( PROPOSED 15 L.F. OF 12" HDPE ( PROPOSED FINGER DRAIN, SEE S	⊉ 1.00%. 1.00%.	
SAN	ITARY		
200. 201.	PROPOSED SANITARY CONNECTION PROPOSED SANITARY CONNECTION		
202.	PROPOSED SANITARY VENT BACK	TO BUILDING, SEE ARCHITECTURAL SHEETS.	
203. 204.		WYE CONNECTION INV.=772.57. SEE SHEET C-503.	
205. 206.	PROPOSED 3 L.F. OF 6" PVC SDR 2 PROPOSED 5 L.F. OF 6" PVC SDR 2	26 @ 6.0%.	
207. 208.	PROPOSED LAWN CLEANOUT AND PROPOSED 8 L.F. OF 6" PVC SDR 2	0 WYE CONNECTION INV.=771.84. SEE SHEET C-503. 26 @ 6.0%.	
209. 210.	PROPOSED WYE CONNECTION. 6" PROPOSED 66 L.F. OF 6" PVC SDR		
211. 212.	PROPOSED 5 L.F. OF 6" PVC SDR 2	•	
213. 214.	PROPOSED 17 L.F. OF 6" PVC SDR		
215.	PROPOSED 6 L.F. OF 6" PVC SDR 2	26 @ 6.0%.	
216. 217.	PROPOSED CONNECTION TO DEV RESPONSIBLE FOR FIELD LOCATION	0 WYE CONNECTION INV.=767.40±. SEE SHEET C-503. ELOPER STUB. 6" INV.=767.40±. CONTRACTOR SHALL BE NG STUB AND VERIFYING INVERT ELEVATION.	
WAT 300.		COORDINATE WITH PLUMBING PLANS.	
301.	DAVISON STANDARDS AND SPECI AFTER THE METER.	ACKFLOW PREVENTOR INSIDE BUILDING PER TOWNSHIP OF FICATIONS. BACKFLOW PREVENTOR SHALL BE LOCATED	
302. 303.	PROPOSED CONNECTION TO DEV RESPONSIBLE FOR FIELD LOCATI	PPER TYPE K) WATER SERVICE LINE. ELOPER WATER STUB. CONTRACTOR SHALL BE NG AND VERIFYING STUB SIZE PRIOR TO INSTALLATION. N WITH THE DEVELOPER'S CONTRACTOR FOR INECTION.	
ELE	CTRIC AND COMMUNICA	TIONS	
400.		RELECTRIC COMPANY SPECIFICATIONS. SEE BUILDING	
401.	ELECTRIC COMPANY. PROPOSED ELECTRIC AND TELEC COORDINATED WITH THE UTILITY	OMMUNICATIONS SERVICE CONDUITS TO BE COMPANIES.	
402.	SPECIFICATIONS.	ET C-501. SEE ELECTRICAL DRAWINGS FOR FOUNDATION	
403. 404.	SPECIFICATIONS. G.C. TO VERIFY PROPOSED CONNECTION TO EXIS	DRMER AND CONCRETE PAD PER ELECTRICAL COMPANY EXACT LOCATION AND SIZE WITH UTILITY ENGINEER. ITING ELECTRICAL AND COMMUNICATIONS SERVICE. E CONNECTION WITH THE PROPER UTILITY COMPANY.	<u>^</u>
	PRIOR TO COORDINATION, THE C	ONTRACTOR SHALL COORDINATE WITH THE DEVELOPER TO ROUGHT TO THE SITE. COORDINATE WITH CONSTRUCTION	$\frac{\Delta}{\Delta}$ ISSUED FOR CONSTRUCTION 08.21.19 $\Delta$
GAS	•		$\Delta$
500.	EXACT LOCATION. GAS SERVICE L	COMPANY SPECIFICATIONS. SEE BUILDING DRAWINGS FOR INE TO BE COORDINATED WITH THE GAS COMPANY.	$\Delta$
501. 502.	PROPOSED CONNECTION TO DEV	E COORDINATED WITH THE GAS COMPANY/DEVELOPER. ELOPER MAIN. CONTRACTOR SHALL COORDINATE WITH THE	$\Delta$
503.	DEVELOPER'S CONTRACTOR FOR GAS EXTENSION FROM MAIN BY C	LOCATION AND TIMING OF CONNECTION. THERS.	$\Delta$
UTIL	ITY CROSSINGS		$\wedge$
GENE COMP	RAL CROSSING NOTES: CONTRACT	OR SHALL COORDINATE ALL CROSSINGS WITH THE UTILITY RY UTILITIES SHALL DEFLECT TO MAINTAIN 18" CLEAR AT S.	CONTRACT DATE: BUILDING TYPE: MO T40
600.		" STM. INV.=771.24; WATER LINE SHALL DEFLECT.	PLAN VERSION:
601. 602.		2" STM. INV.=770.92; 6" SAN. INV.=768.90. 2" STM. INV.=770.80; GAS SHALL DEFLECT.	BRAND DESIGNER:
603. 604.		2" STM. INV.=771.20; ELECTRIC SHALL DEFLECT. 2" STM. INC.=771.52; TELEPHONE SHALL DEFLECT.	SITE NUMBER: 313076 STORE NUMBER:
	SHOWN HEREON (E	GROUND UTILTIIES AND PAVEMENTS EXCEPT FOR SOUTH IRISH ROAD) ARE	TACO BELL
	ALL REFERENCES	TIME THIS DESIGN IS COMPLETED. TO THOSE PAVEMENTS AND UTILITIES CONNECTION AT A LATER DATE.	7931 LAPEER ROAD DAVISON, MI 48423
		DR SHALL REFER TO SHEET C-504 FOR TAILS FOR ALL SANITARY AND	TACO
			BELĹ.
BEN	CHMARKS:	NSS.DC	
TOP (	HMARK #1 DF NORTHWEST BOLT ON BASE RAFFIC SIGNAL POLE AT	MICHIGAN'S ONE- CALL UTILITY NOTIFICATION ORGANIZATION	
SOUT	HEAST PROPERTY CORNER. ATION=777.54 (NAVD 88 DATUM)		UTILITY PLAN
	HMARK #2 - MAG NAIL ON	THREE FULL WORKING DAYS BEFORE YOU DIG, CALL THE MISS DIG SYSTEM AT	
SOUT	H FACE OF POWER POLE	1-(800)-482-7171	
SOUT	H IRISH ROAD. ATION=776.92 (NAVD 88 DATUM)	OR CALL #DIG	
		FREE FROM YOUR AT&T OR CINGULAR CELLULAR PHONE THE MISS DIG MEMBER UTILITIES WILL MARK THE APPROXIMATE	<b>C-141</b>
		LOCATION OF THEIR UNDERGROUND PUBLIC UTILITY LINES AT NO CHARGE.	

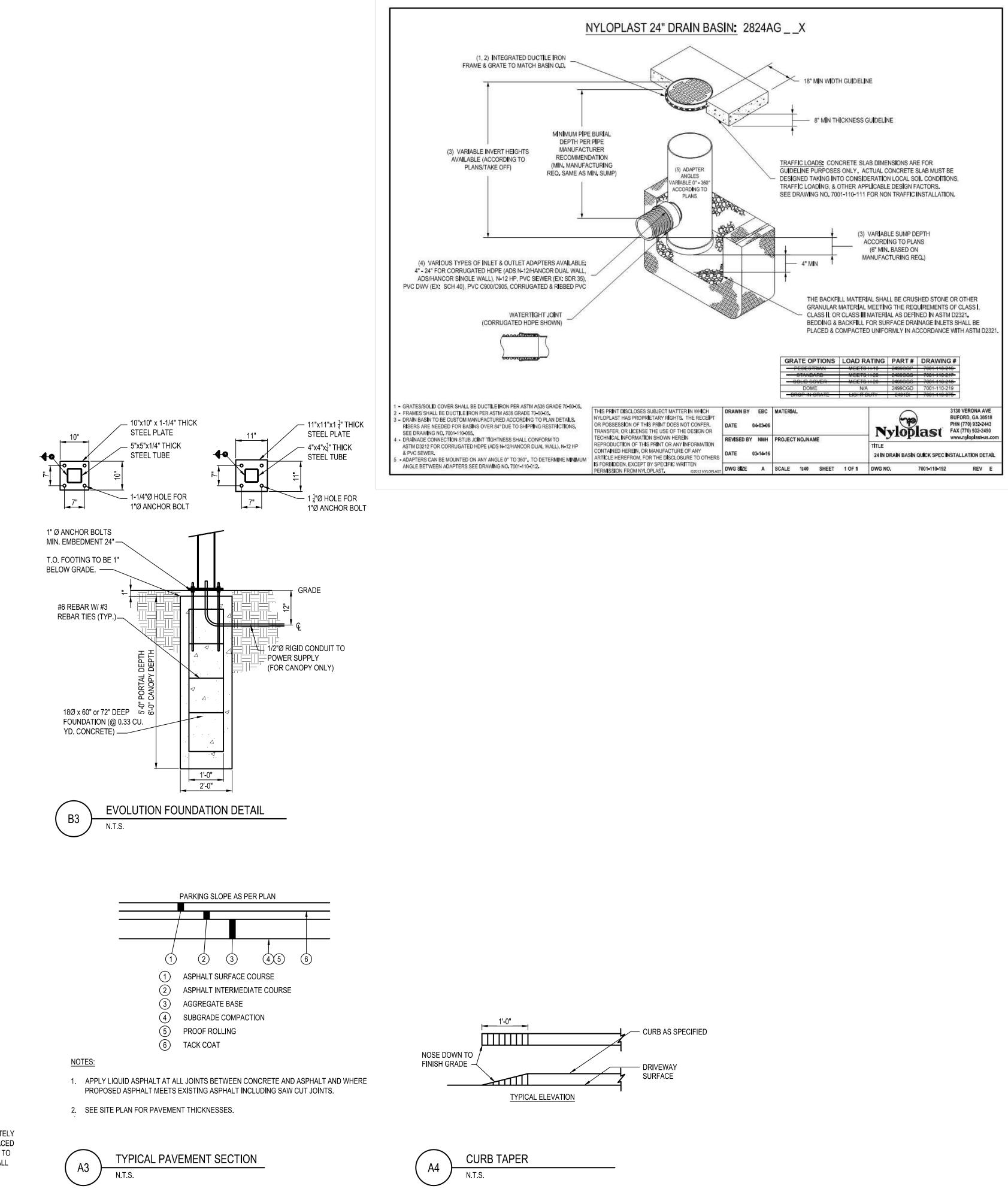


KEY NOTES	-
<ol> <li>1" CONDUIT OR AS NOTED. EXTEN (INSTALL ON MIN. 6" SAND BED WI' BACKFILL. CONDUIT SHALL BE FUL</li> <li>POURED CONCRETE BASE BY G.C CONCRETE)</li> <li>PROVIDE GROUND LUG IN BASE B' SHALL BE MIN. #6 BARE WIRE.</li> <li>T &amp; B #3 GND. CLAMP</li> <li>1/2" EMT OR PVC CONDUIT FOR GF</li> <li>GROUNDING ROD.</li> <li>(4) 4'-0" LONG HEADED ANCHOR ROD DIAMETER W/ POLE SUPPLIER, FU &amp; INSTALLED BY G.C.</li> <li>#3 TIES SPACED @ 12" O.C.</li> <li>(8) #5 VERTICAL REBARS</li> <li>CONDUIT STUB OUT FOR GROUND IL PATERN BY LOT LIGHTING SI</li> <li>REBAR CAGE</li> <li>CONDUIT STUB OUT</li> <li>ANCHOR BOLTS</li> </ol>	TH MIN. 6" SAND COVER BEFORE L WEIGHT SCHEDULE 40 PVC) . (24" DIA.) (3,000 PSI, CLASS "C" OLTED TO BASE PLATE. GROUND ROUND WIRE ODS. COORDINATE ANCHOR ROD IRNISHED BY LOT LIGHTING SUPPLIER
LIGHT POLE FOUND	ATION SCHEDULE
BASIC WIND SPEED (MPH) (ASCE 7-05)	FOUNDATION DEPTH
	6'-0"
(ASCE 7-05)	









ISSUED FOR CONSTRUCTION 08.21.19 CONTRACT DATE: BUILDING TYPE: MO T40 PLAN VERSION: BRAND DESIGNER: SITE NUMBER: 313076 STORE NUMBER: TACO BELL

GPD GR

**Professional Corporation** 

520 South Main Street, Suite 2531

330.572.2100 Fax: 330.572.2102

Akron, OH 44311







#### 1. STANDARD SPECIFICATIONS & DETAILS ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE LATEST GENESEE COUNTY STANDARD SPECIFICATIONS AND STANDARD DETAILS FOR SANITARY SEWER, PRESSURE PIPE, AND PUMP STATION CONSTRUCTION. ANY DEVIATIONS FROM THE GCDC-WWS APPROVED PLANS WILL NOT BE PERMITTED. IF IT BECOMES NECESSARY TO REVISE THE PLAN, THEY SHALL BE RESUBMITTED TO GCDC-WWS FOR APPROVAL.

#### 2. PRE-CONSTRUCTION MEETING

A PRE-CONSTRUCTION MEETING SHALL BE HELD AT THE GCDC-WWS OFFICE PRIOR TO BEGINNING THE WORK. NO PRE-CONSTRUCTION MEETING SHALL BE HELD PRIOR TO OBTAINING THE STATE CONSTRUCTION PERMITS. THE MEETING'S TIME, PLACE, AND ATTENDEES SHALL BE ARRANGED BY THE ENGINEER FOR THE PROJECT. GCDC-WWS, GCDC-SWM. THE MUNICIPALITY, THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS PROJECT OWNER, CONTRACTOR, AND ANY AFFECTED UTILITIES SHALL BE INVITED, AS A MINIMUM, TO THE PRE-CONSTRUCTION MEETING.

#### 3. MISS DIG 811 UTILITY ALERT

THREE (3) WORKING DAYS PRIOR TO BEGINNING THE WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT MISS DIG 811 UTILITY PROTECTION SERVICE (1-800-482-7171 OR 811) TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. ALL UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE PROPERLY REPAIRED IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS.

#### 4. FIELD LOCATION OF UTILITIES

PRIOR TO BEGINNING THE WORK, THE CONTRACTOR SHALL BE REQUIRED TO EXPOSE ALL EXISTING UTILITIES THAT CROSS THE PROPOSED CONSTRUCTION, SO THE ENGINEER MAY DETERMINE IF A VERTICAL CONFLICT EXISTS BETWEEN AN EXISTING UTILITY AND THE PROPOSED WORK. ALL LABOR REQUIRED TO UNCOVER THE EXISTING UTILITY SHALL BE CONSIDERED INCLUDED IN THE LINEAL FEET OF PRESSURE PIPE OR SANITARY SEWER PIPE INSTALLED. THE CONTRACTOR SHALL VERIFY THE DEPTH AND HORIZONTAL LOCATIONS OF ALL UTILITIES IN SUFFICIENT TIME SUCH THAT ANY CONFLICTS CAN BE RESOLVED BEFORE WORK IS STARTED IN THAT PORTION OF THE PROJECT. THE CONTRACTOR SHALL ARRANGE FOR THE VARIOUS UTILITY OWNERS TO LOCATE, REMOVE AND REPLACE, OR RELOCATE THEIR FACILITIES. ALL COSTS FOR THIS SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PROJECT

#### 5. SUBSURFACE SOIL CONDITIONS

PRIOR TO BIDDING, THE CONTRACTOR AND SUBCONTRACTORS SHALL MAKE A PERSONAL INVESTIGATION OF THE SITE AND EXISTING SURFACE AND SUBSURFACE CONDITIONS. THE CONTRACTOR SHALL ACQUAINT ITSELF WITH CONDITIONS OF THE WORK AREA. THE CONTRACTOR IS ADVISED TO DETERMINE THE SUBSURFACE SOIL AND GROUND WATER CONDITIONS. DEWATERING, IF DETERMINED NECESSARY BY THE CONTRACTOR AND IF NOT SPECIFICALLY REQUIRED BY THE CONTRACT DOCUMENTS, WILL BE INCIDENTAL TO THE COST OF INSTALLATION.

#### 6. PERMITS AND FEES

THE CONTRACTOR/DEVELOPER SHALL OBTAIN ALL PERMITS, INCLUDING THE PAYMENT OF ANY FEES OR BONDS, REQUIRED BY ANY FEDERAL, STATE, COUNTY, LOCAL, OR PRIVATE ORGANIZATIONS PRIOR TO COMMENCING WORK.

#### 7. GCDC-WWS INSPECTION FEES

THE DEVELOPER SHALL PAY FOR ALL SANITARY SEWER AND PRESSURE PIPE INSPECTION FEES AND WATER USAGE FEES PRIOR TO THE PRE-CONSTRUCTION MEETING.

8. SOIL EROSION CONTROL, PART 91 OF P.A. 451 OF 1994 THE CONTRACTOR/DEVELOPER SHALL COMPLY WITH ALL PROVISIONS OF PART 91, ACT 451 OF P.A. 1994 FOR SOIL EROSION AND SEDIMENTATION CONTROL AND WILL BE RESPONSIBLE FOR ALL MAINTENANCE UNTIL THE FINAL ACCEPTANCE OF THE PERMANENT CONTROL MEASURES BY GCDC-WWS. THE CONTRACTOR/DEVELOPER IS REQUIRED BY GCDC-WWS TO PREPARE AND SUBMIT A SOIL EROSION AND SEDIMENTATION CONTROL PLAN IN ORDER TO OBTAIN THE SOIL EROSION AND SEDIMENTATION CONTROL PERMIT AND TO PAY ANY APPLICATION FEES AND BOND FEES NECESSARY TO OBTAIN THE PERMIT.

#### 9. STATE CONSTRUCTIONS PERMITS

THE CONSTRUCTION OF PUBLIC SANITARY SEWERS OR PRESSURE PIPES SHALL NOT BEGIN UNTIL THE REQUIRED STATE CONSTRUCTION PERMITS HAVE BEEN OBTAINED. NOTE: SOIL EROSION AND CONSTRUCTION PLAN APPROVAL ARE SEPARATE APPROVALS AT GCDC-WWS.

#### 10. ROADWAY PERMITS

A PERMIT FROM THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS IS REQUIRED FOR ALL CONSTRUCTION WITHIN ANY ROAD RIGHT-OF-WAY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE ALL NECESSARY PERMITS, POST ALL NECESSARY BONDS, PAY ALL FEES, AND OBTAIN ANY REQUIRED INSURANCES IN CONNECTION THERE WITH.

#### 11. WORK OBSERVATION

ALL WORK SHALL BE PERFORMED UNDER THE OBSERVATION OF A CONSTRUCTION OBSERVER FROM GCDC-WWS OR LOCAL MUNICIPALITY HAVING JURISDICTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OBSERVING AGENCIES THREE (3) WORKING DAYS OR 72 HOURS PRIOR TO STARTING CONSTRUCTION TO ARRANGE FOR ON-SITE OBSERVATION AND ESTING OUT SHEETS FOR ALL PIPE INSTALLATION AND REDITCHING SHALL BE PROVIDED TO THE GCDC-WWS CONSTRUCTION OPERATION'S SUPERVISOR A MINIMUM OF 24 HOURS PRIOR TO STARTING THE WORK WITH RESPECT TO THAT UTILITY. GCDC-WWS OR THE LOCAL MUNICIPALITY HAVING JURISDICTION SHALL BE NOTIFIED FOR A FINAL INSPECTION.

12. CONTRACTOR'S MINIMUM WAGE & USE OF IN-COUNTY LABOR THE CONTRACTOR SHALL EMPLOY COMPETENT AND SKILLED WORKERS THROUGHOUT THE COURSE OF THE PROJECT. THE CONTRACTOR SHALL STRIVE TO USE GENESEE COUNTY RESIDENTS WHEN FEASIBLE. THE CONTRACTOR SHALL BE REQUIRED TO PAY THE PREVAILING WAGE RATES AS ESTABLISHED BY THE BUILDING AND CONSTRUCTION TRADES DEPARTMENT OF THE AMERICAN FEDERATION OF LABOR WHICH APPLIES TO THE COUNTY OF GENESEE. THESE RATES CAN BE OBTAINED BY CONTACTING THE MICHIGAN DEPARTMENT OF CONSUMER AND INDUSTRIAL SERVICES.

#### 13. MIOSHA SAFETY REQUIREMENTS

ALL WORK, WORK PRACTICE, AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE STATE AND FEDERAL SAFETY GUIDELINES, OCCUPATION, HEALTH AND ENVIRONMENTAL REGULATIONS, AND ALSO NFPA AND ANSI CODES AS APPLICABLE. ALL WORK INSIDE A CONFINED SPACE, SUCH AS MANHOLES OR OTHER UNDERGROUND STRUCTURES, SHALL BE COORDINATED WITH THE UTILITY OWNER, AND ALL WORKER SAFETY REQUIREMENTS STRICTLY ENFORCED. THE CONTRACTOR SHALL HAVE ITS SAFETY PLAN ON FILE WITH GCDC-WWS AND ONE COPY ON SITE AT ALL TIMES.

14. ROADWAY REQUIREMENTS FOR UTILITY CONSTRUCTION THE CONTRACTOR SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF THE GCRC OR LOCAL MUNICIPALITY REGARDING THE CONSTRUCTION OF PRESSURE PIPE AND SEWER MAINS. MAINTAINING TRAFFIC, BARRICADING, BORING, BACKFILLING AND RESTORATION WITHIN THE ROAD RIGHT-OF-WAY.

#### 15. OPEN CUTTING OF COUNTY/LOCAL ROADS

WHEN OPEN CUTTING OF GRAVEL OR HARD SURFACED ROADS ARE INCORPORATED INTO THE PROJECT, THE CONTRACTOR SHALL OBTAIN THE APPROVAL AND COMPLY WITH ALL OF THE REQUIREMENTS OF THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS, AND BY THE SPECIFICATIONS OF GCDC-WWS.

16. GRAVEL ROAD CONTAMINATION BY THE WORK IF IT IS DETERMINED BY THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS THAT GRAVEL ROADS HAVE BECOME CONTAMINATED DURING THE WORK, THE ROAD MUST BE REPAIRED PER THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS. WHERE THE EXISTING ROAD GRAVEL IS REMOVED BECAUSE OF THE WORK, ALL WORK AND MATERIALS SHALL MEET THE REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS.

17. RESTORATION OF GRAVEL SHOULDERS IF IT IS DETERMINED BY THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS THAT GRAVEL

SHOULDERS HAVE BEEN CONTAMINATED BY THE WORK, THE CONTRACTOR SHALL RE-GRAVEL PER THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS. ALL WORK AND MATERIALS SHALL MEET THE REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS.

18. COMPACTED GRANULAR BACKFILL FOR ROADWAYS, DRIVES, ETC. ALL TRENCH EXCAVATION WITHIN A ONE-ON-ONE INFLUENCE OF A ROADWAY, DRIVEWAY CROSSINGS, PARKING LOTS, OR AS OTHERWISE NOTED ON THE PLANS, SHALL BE BACKFILLED WITH COMPACTED SAND MDOT CLASS II (A5) PER THE SCHEDULE OF BACKFILLING, FOUND IN THE SPECIFICATIONS. IN ADDITION, SEE THE SPECIFICATIONS FOR THE REQUIREMENTS FOR THE COMPACTION PLAN. THIS STANDARD ALSO INCLUDES SERVICE LEADS UNLESS BORED.

#### 19. SURFACE RESTORATION

ALL DISTURBED AREAS SHALL BE COMPLETELY RESTORED IN STRICT COMPLIANCE WITH THE SOIL EROSION AND SEDIMENTATION SPECIFICATIONS AND TO THE SATISFACTION OF GCDC-WWS, GCDC-SWM, GCRC, MDOT, THE LOCAL MUNICIPALITY, AND THE PROPERTY OWNER. ALL COSTS FOR THE CLEANUP, RESTORATION WORK, AND OTHER INTERMEDIATE OPERATIONS INCLUDING BUT NOT LIMITED TO, CONSTRUCTION SIGNAGE, STREET SWEEPING, AND MAINTAINING EXISTING UTILITIES, SHALL BE CONSIDERED INCLUSIVE AND AT NO ADDITIONAL COST TO GCDC-WWS. AREAS DISTURBED DURING THE WORK SHALL RECEIVE A 4" APPLICATION OF SCREENED TOPSOIL, FERTILIZED AND SEEDED. ALL EXCESS MATERIALS, DEBRIS, AND SIMILAR ITEMS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF IN ACCORDANCE WITH THE LAW. ALL GROUND SURFACES SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER PRIOR TO FINAL APPROVAL.

#### 20. TRAFFIC CONTROL

THE CONTRACTOR SHALL EXECUTE THE WORK IN A MANNER SUCH THAT TRAFFIC IS MAINTAINED AND ACCESS IS PROVIDED TO ALL RESIDENCES, BUSINESSES, AND COMMERCIAL ESTABLISHMENTS. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS AND THE LATEST EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, PART 6, AND THE REQUIREMENTS OF THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS, OR AS DIRECTED BY THE ENGINEER.

#### 21. SIGNING AND BARRICADING

SIGNING AND BARRICADING SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE DETAILS ON THE PLANS, THE LATEST EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, PART 6, AND THE REQUIREMENTS OF THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS. SIGNS AND BARRICADES LEFT IN PLACE AFTER DARK SHALL BE LIGHTED.

#### 22. PROTECTION OF HAZARDOUS AREAS

EXCAVATION AND HAZARDOUS AREAS SHALL BE PROTECTED BY BARRICADES, SNOW FENCE, OR OTHER APPROPRIATE MEANS. BARRICADES LEFT IN PLACE AFTER DARK SHALL BE LIGHTED.

#### 23. STORM WATER DRAINAGE DURING THE WORK

THE CONTRACTOR/DEVELOPER SHALL OBTAIN THE SERVICES OF A CERTIFIED STORM WATER OPERATOR AND COMPLY WITH THE PROVISIONS OF THE NPDES AND SESC PERMITS. THE CONTRACTOR SHALL MAINTAIN DITCH DRAINAGE DURING CONSTRUCTION AND SHALL NOT OBSTRUCT SUMP PUMP LEADS DISCHARGING INTO THE DITCH. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ALL STORM SEWER FACILITIES, SUCH AS CATCH BASINS AND CULVERTS, DURING THE WORK. CULVERTS AND CATCH BASINS CONTAMINATED DURING THE WORK SHALL BE CLEANED.

#### 24. UTILITY INFORMATION

UTILITY INFORMATION IS DELINEATED IN ACCORDANCE WITH THE LOCATIONS PROVIDED BY UTILITY OWNERS. THE ENGINEER IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION OR THE LOCATION AT WHICH THESE SERVICES EXIST. DIFFERING FIELD CONDITIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND GCDC-WWS.

#### 25. EXISTING UTILITIES

THE CONTRACTOR SHALL MAINTAIN ALL EXISTING SANITARY SEWER, PRESSURE PIPE, OR STORM SEWER CONNECTIONS IN SERVICE THROUGHOUT THE WORK. THE CONTRACTOR SHALL PROVIDE OR ARRANGE FOR THE TEMPORARY SUPPORT OF GAS MAIN, TELEPHONE, FIBER OPTIC, CABLE, PRESSURE PIPE, SANITARY SEWER, STORM SEWER, AND UTILITY POLES WHERE NEEDED. ALL STORM SEWERS DAMAGED OR REMOVED, OR RELOCATED BY THE CONTRACTOR, SHALL BE REPLACED WITH THE SAME SIZE AND QUALITY PIPE BY THE CONTRACTOR AT CONTRACTOR'S SOLE EXPENSE. ALL UTILITIES UNDERMINED BY THE EXCAVATION SHALL HAVE COMPACTED SAND BACKFILL PLACED UNDER THEM, UNLESS MDOT 6AA CRUSHED LIMESTONE (A1) OR MDOT 22A GRAVEL (A2) IS SHOWN ON THE CONSTRUCTION PLANS. ALL WORK, NCLUDING THE REBORING OF SANITARY SEWER SERVICE LEADS AND WATERMAIN LEADS TO ACCOMMODATE CONSTRUCTION TO CLEAR EXISTING SERVICES, SHALL BE INCLUSIVE TO THE PROJECT

#### 26. SHOP DRAWINGS

PRIOR TO THE START OF THE WORK. THE CONTRACTOR SHALL FURNISH TO GCDC-WWS SHOP DRAWINGS AND/OR CATALOG CUTS FOR ALL MATERIALS AND EQUIPMENT ITEMS PER THE STANDARD SPECIFICATIONS.

#### 27. MATERIAL CERTIFICATIONS PRIOR TO THE START OF THE WORK, THE CONTRACTOR SHALL FURNISH TO GCDC-WWS MATERIALS CERTIFICATES FOR ALL MATERIALS USED DURING THE WORK.

28. NON-STOPPAGE CLAUSE THE CONTRACTOR SHALL BE REQUIRED TO COMPLETE ALL WORK IN AN EXPEDITIOUS MANNER AND SHALL NOT STOP THE WORK FOR EXTENDED PERIODS ONCE THE WORK HAS BEGUN

29. DISPOSAL OF EXCESS EXCAVATED MATERIAL ALL EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR, WITH ALL PERMITS, PERMISSIONS, AND LOCATIONS PROVIDED BY THE CONTRACTOR. ADJACENT PROPERTY OWNERS SHALL BE GIVEN PREFERENCE FOR DISPOSAL SITES. WRITTEN PERMISSION FOR DISPOSAL ON ADJACENT PROPERTY OWNERS SHALL BE PROVIDED TO GCDC-WWS.

WITHOUT WRITTEN APPROVAL OF GCDC-WWS.

**30. CONSTRUCTION STAKING** THE CONTRACTOR SHALL, AT ITS OWN EXPENSE, PROVIDE A PROFESSIONAL LAND SURVEYOR. LICENSED IN THE STATE OF MICHIGAN, TO PROVIDE ALIGNMENT AND GRADE STAKES, AND CUT SHEETS. THE SURVEYOR SHALL PROVIDE GRADE STAKES AND CUT SHEETS AT ALL STRUCTURES AND AT A MAXIMUM OF 50' INTERVALS BETWEEN STRUCTURES.

#### 31. FINAL ELEVATIONS OF SURFACE UTILITIES

ALL FINAL ELEVATIONS OF MANHOLE CASTINGS, HYDRANTS, VALVES, AND VALVE BOXES SHALL BE APPROVED BY THE GCDC-WWS REPRESENTATIVE IN THE FIELD. ANY ADJUSTMENTS THAT ARE MADE SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE.

#### 32. PROJECT RECORD DOCUMENTS UPON COMPLETION OF THE WORK AND PRIOR TO FINAL APPROVAL FROM GCDC-WWS, THE OWNER/DEVELOPER SHALL FURNISH GCDC-WWS WITH ONE COMPLETE SET OF PROJECT

RECORD DOCUMENTS. THESE PROJECT RECORD DOCUMENTS ARE COMPRISED OF DRAWINGS ON MYLAR AND AN ELECTRONIC DATA SET. THE MYLAR PROJECT RECORD DOCUMENTS SHALL BE SUBMITTED TO GCDC-WWS ON 4 MIL MYLAR FOR THE REVIEW AND APPROVAL OF GCDC-WWS. THE MYLAR PROJECT RECORD

#### DOCUMENTS SHALL INCLUDE BUT NOT BE LIMITED TO: INVERT OF PIPES, LOCATION OF MANHOLES, PIPE LENGTHS, SLOPES OF PIPE, LOCATION OF SERVICE LEADS, LOCATION OF MAINLINE VALVES, LOCATION OF BENDS, TEES CROSSES, AND LOCATION OF CURB BOXES. THIS INFORMATION SHALL BE GATHERED BY THE OWNER/DEVELOPER AT ITS SOLE EXPENSE. THESE PROJECT RECORD DOCUMENTS SHALL ALSO INCLUDE ANY ADDITIONAL INFORMATION COLLECTED BY THE GCDC-WWS OR MUNICIPAL CONSTRUCTION OBSERVER.

NO.	DATE	DESCRIPTION		DT	WOION	OF
1	2018	SEVENTH EDITION		DI	VISION	OF
			WATER	80	WASTE	SERVICES
				~~		

SANITARY CONSTRUCTION NOTES	SANITARY	CONSTRUCTION	NOTES
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1. ALL MATERIAL AND WORK SHALL COMPLY WITH THE LATEST GCDC-WWS SPECIFICATIONS AND IN ADDITION TO THE AS-BUILT MYLARS, THE OWNER/DEVELOPER SHALL PROVIDE TO 1. ALL MATERIAL AND WORK SHALL COMPLY WITH THE LATEST GCDC-WWS SPECIFICATIONS AND GCDC-WWS AN ELECTRONIC DATA SET IN A MICROSOFT EXCEL SPREADSHEET DETAILING THE STANDARD DETAILS. STANDARD DETAILS. FOLLOWING ITEMS IN THEIR AS-BUILT LOCATIONS DEPICTED IN MICHIGAN STATE PLANE SOUTH 2. NO CONNECTION TO AN EXISTING SANITARY SEWER SHALL BE MADE WITHOUT THE PRIOR . ALL PUBLIC PRESSURE PIPE SHALL BE DUCTILE IRON. THE PIPE SHALL BE BELL AND SPIGOT OR COORDINATES (NAD83) AND ELEVATIONS (USGS/NGVD): ALL MANHOLES (WATER AND APPROVAL OF GCDC-WWS. GCDC-WWS SHALL HAVE FINAL INSPECTION AUTHORITY AND APPROVAL RESTRAINED JOINT FITTINGS FITTED WITH A RUBBER GASKET. FITTINGS MAY BE GRAY IRON OR DUCTILE SANITARY), ALL HYDRANTS, ALL VALVES, AND ALL SERVICE RISERS (WATER AND SANITARY) FOR UNDERGROUND SANITARY SEWER FACILITIES. IRON MEETING CLASS 350 PSI RATING. FOR 3" OR SMALLER SANITARY SEWER FORCEMAIN, SDR-21 PVC AT THEIR TERMINUS, ALL METER PITS, AND ALL PUMP STATIONS. MAY BE UTILIZED 3. THE MATERIAL FOR THE SANITARY SEWER SHALL BE SPECIFIED ON THE CONSTRUCTION DRAWINGS. THE FOLLOWING MATERIALS ARE ACCEPTABLE TO GCDC-WWS: 33. 2-YEAR MAINTENANCE AND GUARANTEE BOND 3. ALL PIPES, VALVES, AND FITTINGS SHALL BE POLYWRAPPED, EXCEPT IN MANHOLES. CIRCUMFERENTIAL A. 8" TO 15". PVC WITH A MINIMUM SDR OF 26 CONFORMING TO ASTM D-3034-00 UPON COMPLETION OF THE WORK AND PRIOR TO FINAL APPROVAL, THE CONTRACTOR SHALL WRAPS OF MANUFACTURER RECOMMENDED TAPE SHALL BE PLACED AT NO GREATER THAN 4' INTERVALS GASKETED SEWER PIPE. FURNISH THE GCDC-WWS WITH A 2-YEAR MAINTENANCE AND GUARANTEE BOND. ALONG THE BARREL OF THE PIPE, WITH THE EXCESS FOLDED OVER THE TOP TO TAKE OUT EXCESS B. LARGER THAN 15". REINFORCED CONCRETE PIPE CONFORMING TO ASTM C-76-03. JOINTS SHALL BE MODIFIED TONGUE & GROOVE TYPE WITH SOLID RUBBER GASKETS CONFORMING TO ASTM C-443-02. MINIMUM SIZE SHALL BE CLASS III, WALL B AS SLACK, HELPING TO MINIMIZE THE SPACE BETWEEN THE POLYETHYLENE AND THE PIPE. COMPLETE THE INSTALLATION BY OVERLAPPING THE POLYETHYLENE TUBE WRAP AT EACH END AND SEAL ENDS PER THE 34. SOIL EROSION AND SEDIMENTATION CONTROL RELEASE MOST CURRENT VERSION OF AWWA C105/A21.5 STANDARD. WRAPPING PVC PIPE IS NOT REQUIRED. PRIOR TO FINAL ACCEPTANCE BY GCDC-WWS. THE CONTRACTOR SHALL REQUEST A FINAL RECOMMENDED BY THE ENGINEER. INSPECTION OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND RECEIVE 4 WHERE SANITARY SERVICE LEADS OR OTHER UTILITIES ARE ENCOUNTERED. THE CONTRACTOR SHALL WRITTEN APPROVAL FROM GCDC-WWS. THE SOIL EROSION AND SEDIMENTATION CONTROL 4. ALL SANITARY SEWER SERVICE RISERS SHALL BE 6" INTERNAL DIAMETER SDR-26 PVC OR MAKE ADJUSTMENTS TO PROVIDE CONTINUOUS SERVICE TO PROPERTIES ALONG THE ROUTE OF CONSTRUCTION. ALL WORK, INCLUDING THE REBORING OF SANITARY SEWER SERVICE RISERS TO BOND WILL BE RELEASED UPON GCDC-WWS FINAL APPROVAL. LOWER CONFORMING TO ASTM D-3034-00. JOINTS SHALL BE RUBBER GASKET JOINTS OR SOLVENT WELD BELL JOINTS. RISERS SHALL BE LEFT AT 8-10' DEEP AT THE RIGHT-OF-WAY OR ACCOMMODATE CONSTRUCTION, OR ADJUSTING PRESSURE PIPE INSTALLATION TO CLEAR EXISTING EASEMENT LINE, OR AS DEEP TO SERVICE BASEMENTS. SERVICE RISERS WITHIN EASEMENTS SHALL BE EXTENDED A MINIMUM OF ONE PIPE LENGTH FROM THE MAINLINE SEWER OR TO THE EDGE OF 35. ORDER OF PRECEDENCE SERVICES, SHALL BE INCLUSIVE TO CONSTRUCTION. IN RESOLVING INCONSISTENCIES BETWEEN TWO OR MORE SECTIONS OF THE CONTRACT HE EASEMENT, WHICH EVER IS LONGER. WEEP TILE, PERIMETER DRAINS, DOWN SPOUTS, OR ANY DOCUMENTS, PRECEDENCE SHALL BE GIVEN IN THE FOLLOWING ORDER FROM (A) THROUGH 5. ALL PRESSURE PIPES SHALL HAVE A MINIMUM COVER OVER THE TOP OF THE PIPE OF 5' FROM OTHER SOURCE OF WATER, SHALL NOT BE CONNECTED TO THE SANITARY SEWER. FINISHED GRADE, 5' CLEARANCE UNDER DRAINS, 5' CLEARANCE BELOW EXISTING DITCHES, AND/OR A MINIMUM 5' BELOW THE EXISTING ROAD. THE STANDARD LAYING CONDITIONS FOR PRESSURE PIPE SHALL A. AGREEMENT AND ANY CONTRACT MODIFICATIONS (WITH GCDC-WWS) 5. PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C-478-03 WITH RUBBER JOINTS CONFORMING TO ASTM C-443-02. ALL FINAL ELEVATIONS OF MANHOLE CASTINGS SHALL BE DETERMINED BY GCDC-WWS. MANHOLE FRAMES AND COVERS SHALL BE BOLT-DOWN, WATERTIGHT BE A 30" TRENCH WIDTH, OR PIPE DIAMETER PLUS 12". THE PIPE SHALL BE LAID ON MDOT CLASS II . SUPPLEMENTARY CONDITIONS SAND (A5) A MINIMUM OF 4" WITH RECESSES TO ACCOMMODATE PIPE BELLS OR AS SHOWN ON THE ). INSTRUCTION TO BIDDERS AST JORDAN 1040 ZPT, NEENAH FOUNDRY COMPANY R-1916F, OR GCDC-WWS APPROVED PLANS. LTERNATE. STEPS SHALL BE M.A. INDUSTRIES PS-1-PF, AMERICAN STEP CO. ML-10, OR A E. GENERAL CONDITIONS OF THE CONTRACT GCDC-WWS APPROVED ALTERNATE. 6. ALL TRENCH EXCAVATION, UNDER OR WITHIN THE ONE-ON-ONE INFLUENCE OF THE EXISTING OR . SPECIFICATIONS PROPOSED PAVING, SHALL BE BACK FILLED WITH COMPACTED MOOT CLASS II SAND (A5). G. DRAWINGS ALL SANITARY SEWERS SHALL BE INSTALLED PURSUANT TO THE SANITARY SEWER STANDARD DETAILS. DEEPER SEWERS, EXCESSIVE TRENCH WIDTH, AND WHERE NOTED, THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS SPECIFIED. 7. THE CONTRACTOR SHALL RESTRAIN ALL THRUST IN THE SYSTEM BY THE USE OF GCDC-WWS APPROVED RESTRAINED JOINTS AND THRUST BLOCKS. DURING THE INSTALLATION OF WATERMAIN, ALL HYDRANTS, TEES, VERTICAL OR HORIZONTAL BENDS AND FUTURE VALVE CONNECTIONS SHALL BE 7. WHERE MANHOLE ADJUSTMENT IS REQUIRED, THE MAXIMUM AMOUNT OF ADJUSTMENT BETWEEN RESTRAINED. THE RESTRAINT SYSTEM AND LOCATION IN THE FIELD SHALL BE DESIGNATED ON THE THE CASTING AND THE CONE SHALL BE 9". A MAXIMUM OF TWO ADJUSTMENT RINGS ARE ALLOWED. ONLY 3", 4", OR 6" CONCRETE ADJUSTMENT RINGS SHALL BE USED. THE MANHOLE SHALL BE WRAPPED PER SD-5 OF THE SANITARY SEWER DETAILS. 8. THE CONTRACTOR SHALL ENCASE THE PRESSURE PIPE IN CONCRETE WHERE THE VERTICAL SEPARATION BETWEEN THE SANITARY SEWER OR STORM SEWER AND THE WATERMAIN IS LESS THAN 18" 8. ALL SANITARY SEWERS 8" THROUGH 21" DIAMETER, INCLUDING SERVICE LEADS CONSTRUCTED AS INCHES. PART OF WORK, SHALL UNDERGO A LOW PRESSURE AIR TEST AND AN INFILTRATION TEST, IN CONFORMANCE WITH ASTM C-924-02 OR C-969-02, PRIOR TO FINAL ACCEPTANCE. SANITARY 9. GATE VALVES SHALL BE RESILIENT SEATED CONFORMING TO THE MOST CURRENT VERSION OF AWWA SEWER SYSTEMS LARGER THAN 21" SHALL UNDERGO AN INFILTRATION TEST. THE MAXIMUM ALLOWABLE INFILTRATION FOR PVC SYSTEMS SHALL BE O GALLONS PER INCH DIAMETER, PER MILE, C509 OR C515 STANDARDS. VALVES SHALL HAVE A VERTICAL, NON-RISING STEM, AND OPEN CLOCKWISE, OR AS SPECIFIED BY LOCAL MUNICIPALITY HAVING JURISDICTION. PER 24 HOURS, AND CONCRETE SYSTEMS SHALL BE 100 GALLONS PER INCH DIAMETER, PER MILE. 10. FIRE HYDRANTS SHALL CONFORM TO THE MOST CURRENT VERSION OF AWWA C502 STANDARD. ALL 9. ALL PUBLIC SANITARY SEWERS 8" OR LARGER SHALL BE INTERNALLY TELEVISED (PAN/TILT) BY HYDRANTS SHALL BE TRAFFIC MODELS WITH BREAKAWAY FLANGES, AND SHALL HAVE THE DRAIN HOLES. FACTORY PLUGGED. ALL THE FIRE HYDRANT ASSEMBLIES FROM THE TEE THROUGH THE HYDRANT, SHALL BE RESTRAINED BY A GCDC-WWS APPROVED METHOD. FIRE HYDRANTS SHALL BE PLACED AT PROPERTY HE CONTRACTOR. THE TELEVISED REPORT, INCLUDING THE DVD, SHALL BE GIVEN TO GCDC-WWS PRIOR TO A REQUEST FOR FINAL INSPECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ORNERS AND WITHIN THE RIGHT-OF-WAY WHEN POSSIBLE AND SHALL BE PAINTED YELLOW WITH THE CLEANING (JET/VAC) THE LINE AND ASSURING ALL DIRT AND DEBRIS HAS BEEN REMOVED PRIOR TO TELEVISING. PRIOR TO TELEVISING THE LINE, WATER SHALL BE PLACED IN THE MAIN FROM THE UPSTREAM MANHOLE UNTIL IT COMES OUT OF THE DOWNSTREAM MANHOLE. THE TELEVISED REPORT SHALL LIST THE DISTANCE A HOUSE LEAD IS LOCATED FROM A MANHOLE, ALL SHEAR CAP COLOR CODED IN ACCORDANCE WITH THE STANDARD DETAILS. FINAL ELEVATIONS AND ADJUSTMENTS TO GRADE, USING EXTENSION PIECES IF REQUIRED, SHALL BE ACCOMPLISHED BY THE CONTRACTOR AT THE CONTRACTOR'S SOLE EXPENSE. FIRE HYDRANTS SHALL HAVE A 5 1/4" VALVE OPENING. FIRE HYDRANTS SHALL BE EAST JORDAN 5BR 250, AMERICAN FLOW CONTROL WATEROUS BREAKS IN THE MAIN OR SERVICE LEADS, ALL LONGITUDINAL CRACKS, BROKEN PIPE, DIPS, OR HIGH POINTS IN THE LINE, ETC. THE CONTRACTOR SHALL REPAIR DAMAGED PIPE BY EXCAVATING THE PIPE AND REPLACING THE LENGTH OF PIPE IN AN APPROVED METHOD. LEAKING JOINTS PACER WB67-250, OR A GCDC-WWS APPROVED ALTERNATE. SHALL BE REPAIRED BY THE CONTRACTOR BY GROUTING. A LEAKING JOINT IS DEFINED AS HAVING SUFFICIENT INFILTRATION TO WET THE INTERIOR OF THE JOINT. GCDC-WWS SHALL BE NOTIFIED 11. PRESSURE TAPS TO EXISTING WATERMAIN, AND CONNECTIONS TO EXISTING VALVES, SHALL BE MADE ONLY UNDER GCDC-WWS OR THE LOCAL MUNICIPALITY HAVING JURISDICTION. ALL VALVE OPENING AND WHEN THE LINE IS TO BE TELEVISED AND SHALL BE PRESENT TO INSPECT REPAIRS. CLOSING SHALL BE BY THE OPERATIONAL AUTHORITY. (ONLY A GCDC-WWS APPROVED TAPPING SLEEVE IS ALLOWED FOR ALL PRESSURE TAPS.) A CONCRETE MANHOLE SHALL BE REQUIRED AROUND ALL 10. SANITARY MANHOLES SHALL BE PLACED CLOSEST TO PROPERTY CORNERS WHEN FEASIBLE. PRESSURE TAPS. SEE PRESSURE PIPE DETAILS. 11. PRIOR TO PERFORMING ANY TESTING, THE CONTRACTOR SHALL BE REQUIRED TO DO THE 12. THE CONTRACTOR SHALL HAVE THE OPTION OF PRESSURE TESTING THE WATERMAIN AGAINST THE EXISTING VALVE AT THE POINT OF BEGINNING OF THE PROJECT OR PLACING A CAP WITHIN 10' OF THE EXISTING VALVE AND STUB. IF TESTING AGAINST THE EXISTING VALVE AND IT LEAKS, THE CONTRACTOR A. CONDUCT PRELIMINARY TESTS ON THE SYSTEM. B. PROVIDE THE RESULTS FROM THE PRELIMINARY TESTS ON THE SYSTEM SHALL MAKE REPAIRS AND REPEAT THE PRESSURE TEST AGAINST THE EXISTING VALVE, AT THE C. PROVIDE RESULTS OF DENSITY CHECKS ON COMPACTED SAND BACKFILL FROM A CONTRACTOR'S SOLE EXPENSE. IF A CAP HAS BEEN PLACED, THEN THE CONTRACTOR SHALL PERFORM THE SYSTEM TEST, AND IF THE TESTS ARE SATISFACTORY TO GCDC-WWS, THEN THE FINAL CONNECTION CERTIFIED TESTING AGENCY. D. FURNISH A COMPLETED TWO-YEAR MAINTENANCE & GUARANTEE BOND E. COMPLETE FINAL ADJUSTMENTS ON ANY SANITARY SEWER STRUCTURES. SHALL BE MADE. 12. PRIOR TO FINAL APPROVAL, THE FOLLOWING ITEMS MUST BE COMPLETED BY THE CONTRACTOR: A. THE FINAL TESTING SHALL CONSIST OF VISUAL INSPECTION OF MANHOLES, TELEVISING OF . WATERMAIN SHALL BE TESTED IN ACCORDANCE WITH MOST CURRENT VERSION OF AWWA C600 STANDARD, AND CHLORINATED IN ACCORDANCE WITH THE LATEST GENESEE COUNTY STANDARD SPECIFICATIONS. WATERMAIN SHALL BE TESTED TO 150 PSI AS MEASURED AT THE HIGH POINT IN SANITARY MAIN, LOW PRESSURE AIR TEST, AND/OR INFILTRATION TEST DEPENDENT ON WATER LINE. WATERMAIN CHLORINATION SHALL BE OBSERVED AND MONITORED BY GCDC-WWS OR THE THE SIZE OF THE SANITARY MAIN (SEE #8 ABOVE), AND PASSING AN APPROPRIATE SIZED MANDREL 30 DAYS AFTER THE MAIN HAS BEEN INSTALLED. LOCAL MUNICIPALITY HAVING JURISDICTION. CHLORINATION AND TESTING SHALL BE AT THE B. PROVIDE MATERIAL CERTIFICATES. C. PROVIDE RECORDED COPIES OF ALL EASEMENTS FOR THE MASTER DEED REFLECTING FINAL CONTRACTOR'S SOLE EXPENSE. A LETTER OF APPROVAL FROM THE AGENCY HAVING AUTHORITY SHALL BE ISSUED PRIOR TO THE WATER BEING USED FOR HUMAN CONSUMPTION. PROJECT RECORD DOCUMENT LOCATIONS. 14. WHEN SPECIFIED BY THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SUPPLY ALL WATER SERVICE LEADS. THESE LEADS SHALL BE "K" COPPER AND SHALL BE A MINIMUM OF 3/4" IN DIAMETER. THEY SHALL BE INSTALLED IN ACCORDANCE WITH THE WATERMAIN STANDARD DETAIL. ALL CORPORATIONS SHALL BE BRONZE. ALL APPURTENANCES THAT COME IN CONTACT WIHT PORTABLE WATER SHALL BE LEAD FREE ACCORDING TO NSF/ANSI STANDARD 372. 15. THE CONTRACTOR SHALL INSTALL, AS A MINIMUM, 2" CORPORATIONS ON THE PRESSURE PIPE FOR PRESSURE TESTING, CHLORINE ADDITION, AND FOR BLOW-OFF PURPOSES. THE CORPORATIONS SHALL HAVE COPPER PIPE EXTENDING TO THE GROUND SURFACE. THE CONTRACTOR SHALL REMOVE THE NS AND COPPER LINES UPON A SATISFACTORY TEST AND INSTALL BRONZE PLUGS PRIOR TO FINAL ACCEPTANCE. 16 PRIOR TO REQUESTING ANY FINAL PRESSURE TESTING AND GATHERING THE REQUIRED BACTERIA SAMPLES (FOR WATERMAIN ONLY). THE CONTRACTOR SHALL PERFORM THE FOLLOWING ITEMS: A. CONDUCT A PRELIMINARY PRESSURE TEST ON THE SYSTEM B. PROVIDE THE RESULTS FROM THE PRELIMINARY TESTS ON THE SYSTEM. C. PROVIDE PROPER CAP COLOR ON THE FIRE HYDRANTS (FOR WATERMAIN ONLY). 17. PRIOR TO FINAL APPROVAL, THE FOLLOWING ITEMS SHALL BE COMPLETED BY THE CONTRACTOR: A. FURNISH A COMPLETED TWO-YEAR MAINTENANCE & GUARANTEE BOND. PROVIDE MATERIAL CERTIFICATES. C. COMPLETE FINAL ADJUSTMENTS OF FIRE HYDRANTS (FOR WATERMAIN ONLY), VALVES, AND MANHOLES. D. PROVIDE RESULTS OF DENSITY CHECKS ON COMPACTED SAND BACKFILL FROM A CERTIFIED TESTING AGENCY. E. PROVIDE RECORDED COPIES OF ALL EASEMENTS FOR THE MASTER DEED REFLECTING FINAL PROJECT RECORD DOCUMENT LOCATIONS. STANDARD DETAILS STANDARD CONSTRUCTION NOTES For the Construction of Sanitary Sewers & Watermain in Genesee County

## PRESSURE PIPE CONSTRUCTION NOTES





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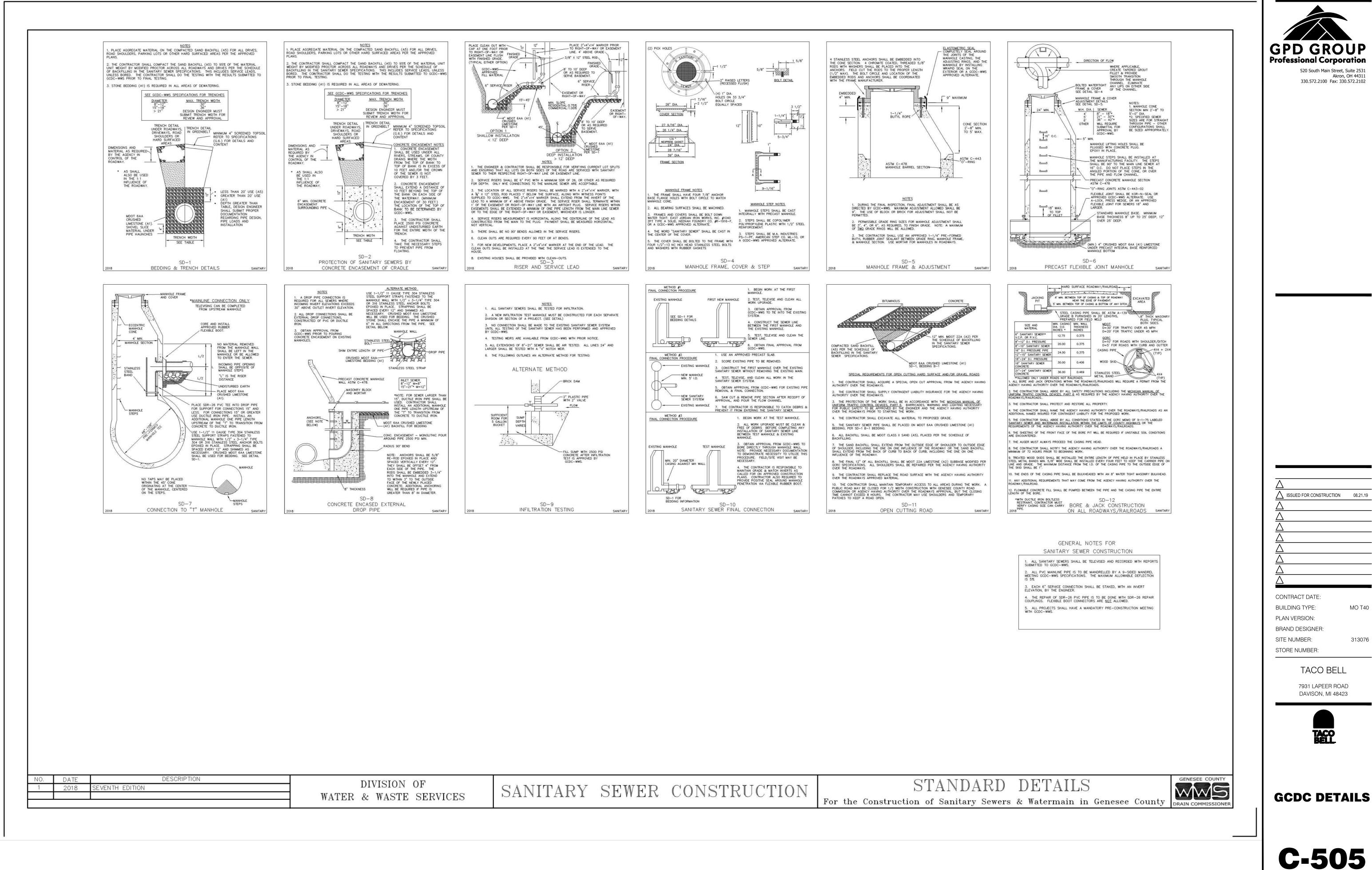
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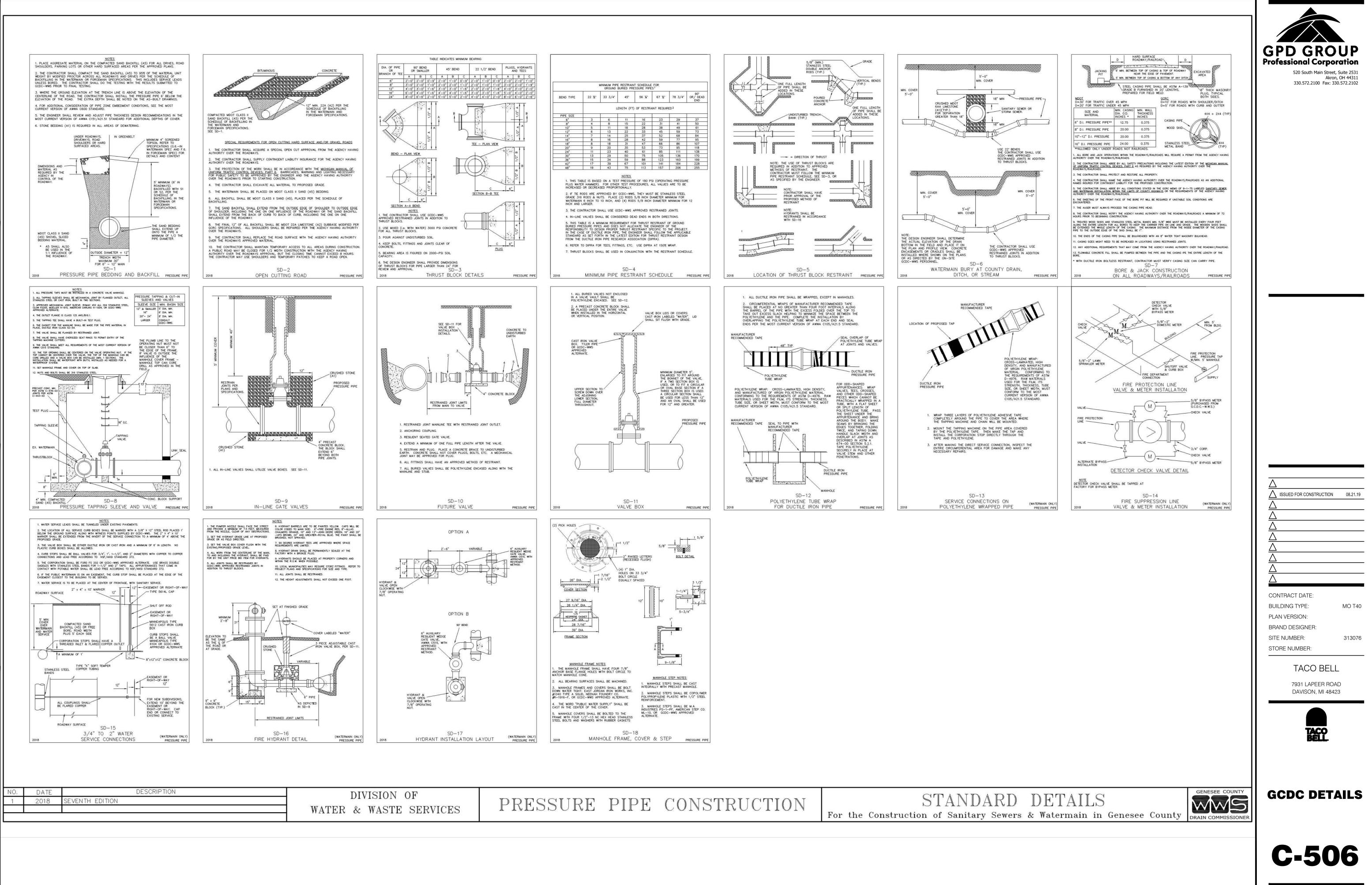
7931 LAPEER ROAD DAVISON, MI 48423



## **GCDC DETAILS**







### SCOPE OF WORK

- THIS WORK SHALL CONSIST OF PERFORMING CLEARING AND GRUBBING, SOIL PREPARATION, FINISH GRADING, PLANTING AND DRAINAGE, INCLUDING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT.
- QUANTITY TAKEOFF IS SUPPLIED FOR CONTRACTOR'S ASSISTANCE ONLY. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING ALL PLANT MATERIALS AS PER PLAN.
- NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR WITHIN EASEMENT OR RIGHT-OF-WAY LIMITS.

#### PRESERVATION/PROTECTION (IF APPLICABLE)

- CONTRACTOR SHALL MAINTAIN AND PRESERVE TREES AND SHRUBS NOT BEING REMOVED, INCLUDING THEIR ROOTS. TREE PROTECTION FENCING SHALL BE USED AT THE DRIP LINE OF ALL TREES AND SHRUBS WITHIN 50 FEET OF CONSTRUCTION EXCEPT AS SHOWN ON PLAN. FENCING SHALL REMAIN IN PLACE UNTIL FINAL PLANT INSPECTION FOLLOWING CONSTRUCTION. MATERIALS SHALL NOT BE STOCKPILED WITHIN THIS DEFINED AREA AND VEHICLES AND OTHER EQUIPMENT SHALL BE OPERATED TO AVOID SOIL COMPACTION.
- FEEDER ROOTS SHOULD NOT BE CUT IN AN AREA EQUAL TO TWICE THE TREE CIRCUMFERENCE GENERAL WORK PROCEDURES (MEASURED 6" ABOVE THE GROUND LINE IN INCHES) EXPRESSED IN FEET. (EXAMPLE: A CIRCUMFERENCE OF 10" WOULD HAVE A 'NO CUT' ZONE OF 20 FEET IN ALL DIRECTIONS FROM 1. LANDSCAPE WORK SHALL BE ACCORDING TO THE WORKMANLIKE STANDARDS ESTABLISHED THE TREE). THIS SHOULD APPLY TO UTILITY SERVICES, IF FEASIBLE. THE ONLY EXCEPTION TO THIS REQUIREMENT WILL BE THOSE SPECIFICALLY ALLOWED BY THE LANDSCAPE ARCHITECT, SPECIFICATIONS OR AS INDICATION ON THE PLANS.
- TREE TRUNKS AND EXPOSED ROOTS DAMAGED DURING EQUIPMENT OPERATIONS SHALL BE TREATED IN ACCORDANCE WITH THE ARBOR CULTURAL STANDARDS OF THE CITY.

#### PLANT MATERIALS

- GENERAL ALL MATERIALS SHALL BE OF ITS KIND AVAILABLE AND SHALL HAVE BEEN GROWN IN A CLIMATE SIMILAR TO THAT ON SITE.
- PLANTS ALL PLANTS SHALL BE HEALTHY, OF NORMAL GROWTH, WELL ROOTED, FREE FROM DISEASE AND INSECTS. QUALITY AND SIZE OF PLANT MATERIAL SHALL CONFORM TO ANSI Z60.1 "AMERICAN STANDARDS FOR NURSERY STOCK".
- VARIETIES AND SIZES OF PLANTS SHALL BE AS SHOWN ON DRAWINGS.
- PLANTS SHALL BE IN A HEALTHY, VIGOROUS CONDITION, FREE OF DEAD OR BROKEN BRANCHES, SCARS THAT ARE NOT COMPLETELY HEALED, FROST CRACKS, DISFIGURING KNOTS, BROKEN OR ABRADED BARK, REDUNDANT LEADERS OR BRANCHES, OR ABERRATIONS OF ANY KIND. PLANTS SHALL NOT HAVE MULTIPLE LEADERS, UNLESS THIS IS THE NATURAL FORM.
- BALLED AND BURLAPPED (B&B) PLANTS SHALL BE DUG WITH A FIRM ROOT BALL OF NATURAL EARTH, OF A SIZE IN PROPORTION TO THE PLANT'S SIZE, AS MEASURED BY CALIPER, HEIGHT, OR SPREAD. BALLED AND BURLAPPED PLANTS SHALL BE HANDLED ONLY BY THE ROOT BALL, NOT BY THE TRUNK OR BRANCHES, AS THIS MAY BREAK OR LOOSEN THE ROOT BALL AND DAMAGE THE ROOT SYSTEM. CONTAINER PLANTS SHALL HAVE BEEN ESTABLISHED FOR A MINIMUM OF ONE FULL GROWING SEASON IN THEIR CONTAINERS BEFORE INSTALLATION. CONTAINER PLANTS SHALL BE HANDLED ONLY BY THE CONTAINER, NOT BY THE STEMS OR BRANCHES, AS THIS MAY PULL THE PLANT OUT OF THE CONTAINER AND BREAK OR LOOSEN THE ROOT BALL AND DAMAGE THE ROOT SYSTEM.
- PLANTS SHALL BE PROTECTED FROM DRYING OUT DURING SHIPPING WITH TARPAULINS OR OTHER COVERINGS. PLANTS SHALL BE PROTECTED FROM DRYING OUT AFTER DELIVERY BY PLANTING IMMEDIATELY; IF THIS IS NOT POSSIBLE, THE ROOT BALL SHALL BE COVERED WITH 6. INSTALL BED EDGING AND MULCH. PEAT MOSS OR EARTH, AND WATERED FREQUENTLY TO KEEP IT MOIST UNTIL PLANTING.
- DO NOT HANDLE, MOVE, BIND, TIE OR OTHERWISE TREAT PLANTS SO AS TO DAMAGE THE ROOT BALL, ROOTS, TRUNK, OR BRANCHES IN ANY WAY.

#### OPSOIL

- TOPSOIL HAS BEEN (OR WILL BE) STOCKPILED FOR REUSE IN LANDSCAPE WORK. IF QUANTITY OF STOCKPILED TOPSOIL IS INSUFFICIENT. PROVIDE ADDITIONAL TOPSOIL AS REQUIRED TO COMPLETE LANDSCAPE WORK. IMPORTED TOPSOIL SHALL CONSIST OF LOOSE, FRIABLE, LOAMY TOPSOIL WITHOUT ADMIXTURE OF SUBSOIL OR REFUSE. ACCEPTABLE TOPSOIL SHALL CONTAIN NOT LESS THAN 3 PERCENT NOR MORE THAN 20 PERCENT ORGANIC MATTER.
- PLANTING BACKFILL FOR PARKING LOT ISLANDS SHALL CONSIST OF A HOMOGENEOUS MIXTURE OF 3 PARTS TOPSOIL TO ONE PART SPHAGNUM PEAT INSTALLED OVER A 6" THICKNESS OF NO. 57 AGGREGATE.

### SOIL CONDITIONING

### OTHER MATERIALS

- BED EDGING EDGING SHALL BE 4" STEEL EDGING WITH THREE (3) METAL ANCHOR STAKES 1. PER 20 FOOT SECTION. ALL MASS PLANTING BEDS SHALL HAVE EDGING PLACED BETWEEN MULCH AREA AND ANY ADJACENT TURF AREA.
- 2. MULCH: ORGANIC MULCH FREE FROM DELETERIOUS MATERIALS AND SUITABLE FOR TOP DRESSING OF TREES, SHRUBS, OR PLANTS AND CONSISTING OF THE FOLLOWING:
  - RIVER ROCK MULCH AREA: AGGREGATE MULCH, 3/4"-2" IN SIZE, WASHED AND a. ROUNDED, SHALL BE INSTALLED WITHIN THE RIVER ROCK MULCH AREA PER THE PLAN. RIVER ROCK MULCH SHALL BE INSTALLED AT 3" INCHES DEPTH.
  - b. NON-DRYED, DOUBLE SHREDDED HARDWOOD SHALL BE INSTALLED IN ALL OTHER LANDSCAPE BEDS OUTSIDE OF THE RIVER ROCK MULCH AREA AT A DEPTH OF 3 INCHES.
- WEED BARRIER POLYETHYLENE FILTER FABRIC DESIGNED TO PERMIT WATER INFILTRATION 3. WHILE PREVENTING WEED GROWTH-TO BE INSTALLED IN ALL PLANTING BEDS.

- FOR LANDSCAPE CONSTRUCTION AND PLANTING IN THE MICHIGAN STANDARDIZED LANDSCAPE SPECIFICATIONS (ASLA) AND ANY LOCAL LANDSCAPE ORDINANCES.
- CONTRACTOR SHALL OBTAIN A COPY OF LOCAL ORDINANCES REGARDING ACCEPTABLE PLANT AND PLANTING DETAILS AND ABIDE BY THOSE ORDINANCES AND DETAILS.
- 3. ENGINEER RESERVES THE RIGHT TO REJECT ALL PLANT MATERIAL DEEMED NOT ACCEPTABLE.
- ANY PROPOSED PLANT SUBSTITUTIONS SHALL BE EQUIVALENT IN FORM, HABIT, STRUCTURE, BRANCHING AND LEAF TYPE AND MUST BE ISSUED TO THE LANDSCAPE ARCHITECT FOR APPROVAL, IN WRITING, PRIOR TO INSTALLATION.

#### WEEDING

1. BEFORE AND DURING PRELIMINARY GRADING AND FINISH GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.

### PLANTING

- POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE OWNER BEFORE EXCAVATING PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
- 2. PLANTING PITS SHALL BE AS PER DETAILS.
- 3. PREPARED SOIL SHALL BE TAMPED FIRMLY AT BOTTOM OF PIT. FILL PREPARED SOIL AROUND BALL OF PLANT. COMPLETE BACKFILLING AND WATER THOROUGHLY.
- 4. PREPARE RAISED EARTH BASIN AS WIDE AS PLANTING HOLE OF EACH PLANT.
- 5. WATER IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACKFILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED.
- 7. REMOVE ALL SALES TAGS, STRINGS, STRAPS, WIRE, ROPE OR OTHER MATERIALS THAT MAY INHIBIT PLANT GROWTH BOTH ABOVE AND BELOW THE SURFACE OF THE SOIL.
- 8. REMOVE ANY BROKEN, SUCKERING, DISEASED, CRISSCROSSED OR AESTHETICALLY DISPLEASING BRANCHES BACK TO LIVE LEADER OR SIDE LATERAL WITH A FLUSH CUT.
- 9. MULCH TREES AND SHRUBS AND OTHER AREAS NOTED ON THE PLANTING PLAN WITH A 3" LAYER OF MULCH AS SPECIFIED IN NOTE 2 OF "OTHER MATERIALS".

#### **FINISH GRADING**

- 1. ALL AREAS WILL BE GRADED BY THE CONTRACTOR TO SUBSTANTIALLY PLUS/MINUS 0.1 FOOT OF FINISH GRADE.
- 2. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN, UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE. SOIL AREAS ADJACENT TO THE BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS.
- 3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER.
- 4. PARKING LOT ISLAND SHALL BE BACKFILLED AS PART OF THIS CONTRACT.

#### LANDSCAPE NOTES & PLANTING SPECIFICATIONS

#### CLEANUP

UPON THE COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. AN 'ACCEPTABLE CONDITION' SHALL BE AS DEFINED AND APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

#### MAINTENANCE

(MAINTENANCE PERIOD TO COMMENCE AFTER FINAL INSPECTION.)

- MAINTENANCE PERIOD FOR THIS CONTRACT SHALL BE 90 CALENDAR DAYS COMMENCING AFTER FINAL INSPECTION OF CONSTRUCTION.
- 2. MAINTAIN TREES, SHRUBS AND OTHER PLANTS BY PRUNING, CULTIVATING AND WEEDING AS REQUIRED FOR HEALTHY GROWTH, RESTORE PLANTING SAUCERS, RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED.
- MAINTAIN LAWNS BY WATERING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.
- 4. MAINTAIN THE LANDSCAPING BY KEEPING ALL PLANTS DISEASE-FREE AND PLANTING BEDS GROOMED, EXCEPT IN NATURALLY OCCURRING VEGETATION AREAS.
- 5. REPLACE ANY REQUIRED PLANTING(S), WHICH SEVERELY DECLINE OR DIE AFTER THE DATE OF PLANTING. SUCH REPLACEMENT SHALL OCCUR DURING THE NEXT APPROPRIATE PLANTING SEASON.

#### SEEDING

- GRASS SEED SHALL BE FRESH, CLEAN, DRY, NEW-CROP SEED COMPLYING WITH THE ASSOCIATION OF OFFICIAL SEED ANALYSTS' "RULES FOR TESTING SEEDS" FOR PURITY AND GERMINATION TOLERANCES.
- ALL AREAS TO BE SEEDED SHALL RECEIVE NO LESS THAN FIVE POUNDS OF SEED PER ONE THOUSAND SQUARE FEET. APPLY SEED AND PROTECT WITH STRAW MULCH AS REQUIRED FOR NEW LAWNS. GRASS SEED MIX SHALL CONSIST OF THE FOLLOWING:

PROPORTION	NAME		MIN.% PURE SEED	MAX.% WEED SEED
30%	KENTUCKY BLUEGRASS (POA PRATENSIS)	80	85	0.50
30%	CREEPING RED FESCUE (FESTUCA RUBRA)	85	98	0.50
20%	PERENNIAL RYE GRASS (LOLIUM PERENNE)	90	98	0.50
20%	ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	85	92	1.00

#### SODDING

- 1. SOD SHALL BE FIRST GRADE CERTIFIED KENTUCKY BLUEGRASS BLEND CONTAINING NOT MORE THAN 30 PERCENT OF OTHER GRASSES AND CLOVERS, AND FREE FROM ALL NOXIOUS WEEDS. SOD SHALL BE RECENTLY MOWED TO A HEIGHT OF NOT LESS THAN 3 INCHES. IT SHALL BE CUT INTO STRIPS OF NOT LESS THAN 3 FEET AND NOT OVER 6 FT. WITH A UNIFORM WIDTH OF NOT OVER 24 INCHES.
- THE SOD SHALL BE CUT TO A DEPTH EQUAL TO THE GROWTH OF THE FIBROUS ROOTS BUT IN NO CASE LESS THAN 1 INCH. SOD SHALL BE DELIVERED TO THE JOB WITHIN 24 HOURS AFTER BEING CUT AND SHALL BE INSTALLED WITHIN 48 HOURS AFTER BEING CUT.
- BEFORE SOD IS PLACED, THE SOD BED WILL HAVE BEEN EXCAVATED TO SUCH A DEPTH THAT WHEN THE SOD IS IN PLACE THE TOP OF THE SOD WILL BE FLUSH WITH THE SURROUNDING GRADE. NO SOD SHALL BE PLACED WHEN THE TEMPERATURE IS BELOW 32 DEGREES F. NO FROZEN SOD SHALL BE PLACED NOR SHALL ANY SOD BE PLACED ON FROZEN SOIL.
- WHEN SOD IS PLACED BETWEEN THE DATES OF JUNE 1ST AND OCTOBER 15TH, IT SHALL BE COVERED IMMEDIATELY WITH A STRAW MULCH 1 INCH THICK (LOOSE MEASUREMENT). AFTER LAYING, THE SOD SHALL BE WATERED THOROUGHLY AND TAMPED WITH APPROVED SOD TAMPERS SUFFICIENTLY TO BRING THE SOD INTO CLOSE CONTACT WITH THE SOD BED AND INSURE TIGHT JOINTS BETWEEN THE SECTIONS OR STRIPS.
- 5. THE CONTRACTOR SHALL KEEP ALL SODDED AREAS INCLUDING SUBGRADE, THOROUGHLY MOIST FOR 30 DAYS AFTER SODDING.
- 6. THE CONTRACTOR SHALL REPAIR ANY AREAS DAMAGED FOLLOWING INSTALLATION AS DIRECTED BY THE ENGINEER. SOD SHALL BE IN PLACE AT LEAST 30 DAYS BEFORE FINAL ACCEPTANCE.

#### PLANTING SCHEDULE

ALL PLANTING IS RECOMMENDED TO BE DONE WITHIN THE FOLLOWING DATES. WHEN PLANTING OUTSIDE THESE DATES, WRITTEN DOCUMENTATION SHALL BE PROVIDED THAT SURVIVAL OR REPLACEMENT WILL BE ENSURED. NO PLANTING SHALL BE DONE IN FROZEN SOIL.

NORMAL PLANTING SEASONS ALL TREES AND SHRUBS EVERGREENS

GROUNDCOVERS SEED AND MULCH



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BUILDING TYPE:	MO T40
PLAN VERSION:	
BRAND DESIGNER:	
SITE NUMBER:	313076
STORE NUMBER:	

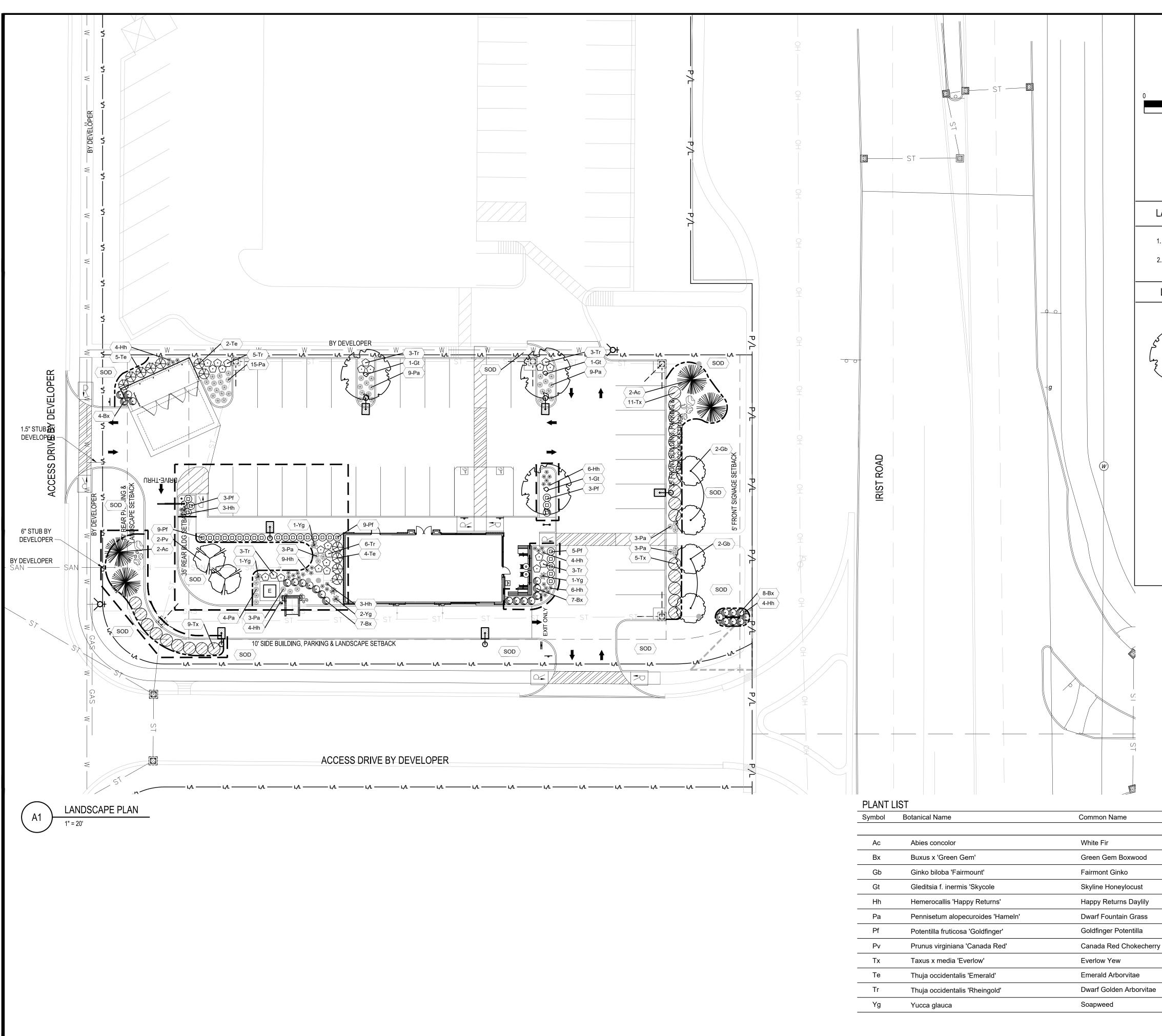
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7931 LAPEER ROAD DAVISON, MI 48423

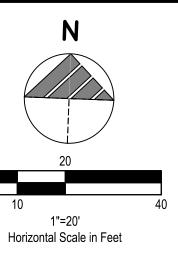




LANDSCAPE



Symbol	Botanical Name	Common Name	Qty.	Min. Size	Condition	Remarks
Ac	Abies concolor	White Fir	4	6' H	B&B	Per Plan
Bx	Buxus x 'Green Gem'	Green Gem Boxwood	27	18" H	B&B	3' o/c
Gb	Ginko biloba 'Fairmount'	Fairmont Ginko	4	1.5" Cal.	B&B	Per Plan
Gt	Gleditsia f. inermis 'Skycole	Skyline Honeylocust	3	2" Cal.	B&B	Matching
Hh	Hemerocallis 'Happy Returns'	Happy Returns Daylily	43	No. 1	Cont.	1.5' o/c
Ра	Pennisetum alopecuroides 'Hameln'	Dwarf Fountain Grass	49	No. 2	Cont.	Per Plan
Pf	Potentilla fruticosa 'Goldfinger'	Goldfinger Potentilla	29	No. 3, 18" ⊦	l Cont.	3' o/c
Pv	Prunus virginiana 'Canada Red'	Canada Red Chokecherry	2	1.5" Cal.	B&B	Matching
Тх	Taxus x media 'Everlow'	Everlow Yew	25	24" H	B&B	5' o/c
Те	Thuja occidentalis 'Emerald'	Emerald Arborvitae	11	5' H	B&B	4' o/c
Tr	Thuja occidentalis 'Rheingold'	Dwarf Golden Arborvitae	23	24" H	Cont.	Per Plan
Yg	Yucca glauca	Soapweed	5	No. 3	Cont.	Per Plan





UTILITY NOTIFIC ATION ORGANIZATION

THREE FULL WORKING DAYS BEFORE YOU DIG, CALL THE MISS DIG SYSTEM AT

1-(800)-482-7171

OR CALL #DIG FREE FROM YOUR AT&T OR CINGULAR CELLULAR PHONE

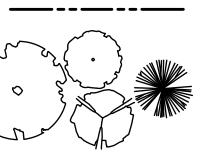
THE MISS DIG MEMBER UTILITIES WILL MARK THE APPROXIMATE LOCATION OF THEIR UNDERGROUND PUBLIC UTILITY LINES AT NO CHARGE.

## LANDSCAPE NOTES

1. MULCH PER LANDSCAPE SPECIFICATIONS.

2. ALL DISTURBED AREAS NOT TO BE PAVED OR MULCHED SHALL BE SODDED PER SPECIFICATIONS.

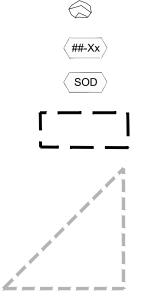
## LANDSCAPE LEGEND



PROPOSED LANDSCAPE BED EDGE

PROPOSED TREE

## ®©©©⊗



PROPOSED SHRUB PROPOSED LIMESTONE BOULDER, DESERT SAND, 12"-36" PROPOSED PLANT QUANTITY AND SYMBOL PROPOSED LAWN AREA

PROPOSED RIVER ROCK GRAVEL AREA

CLEAR VISION ZONE

#### GENERAL LANDSCAPING REQUIRED PROVIDED 1 TREE FOR EVERY 3,000 15,681 SF = PROPOSED 5.2 TREES (DOES NOT SF OF LANDSCAPED OPEN-SPACE INCLUDE GREENBELT TREES) GREENBELT BUFFER REQUIREDPROVIDED1 TREE PER 25 LINEAL130 LF66FEET OF GREENBELT=F 2 TREE 5.2 TREES

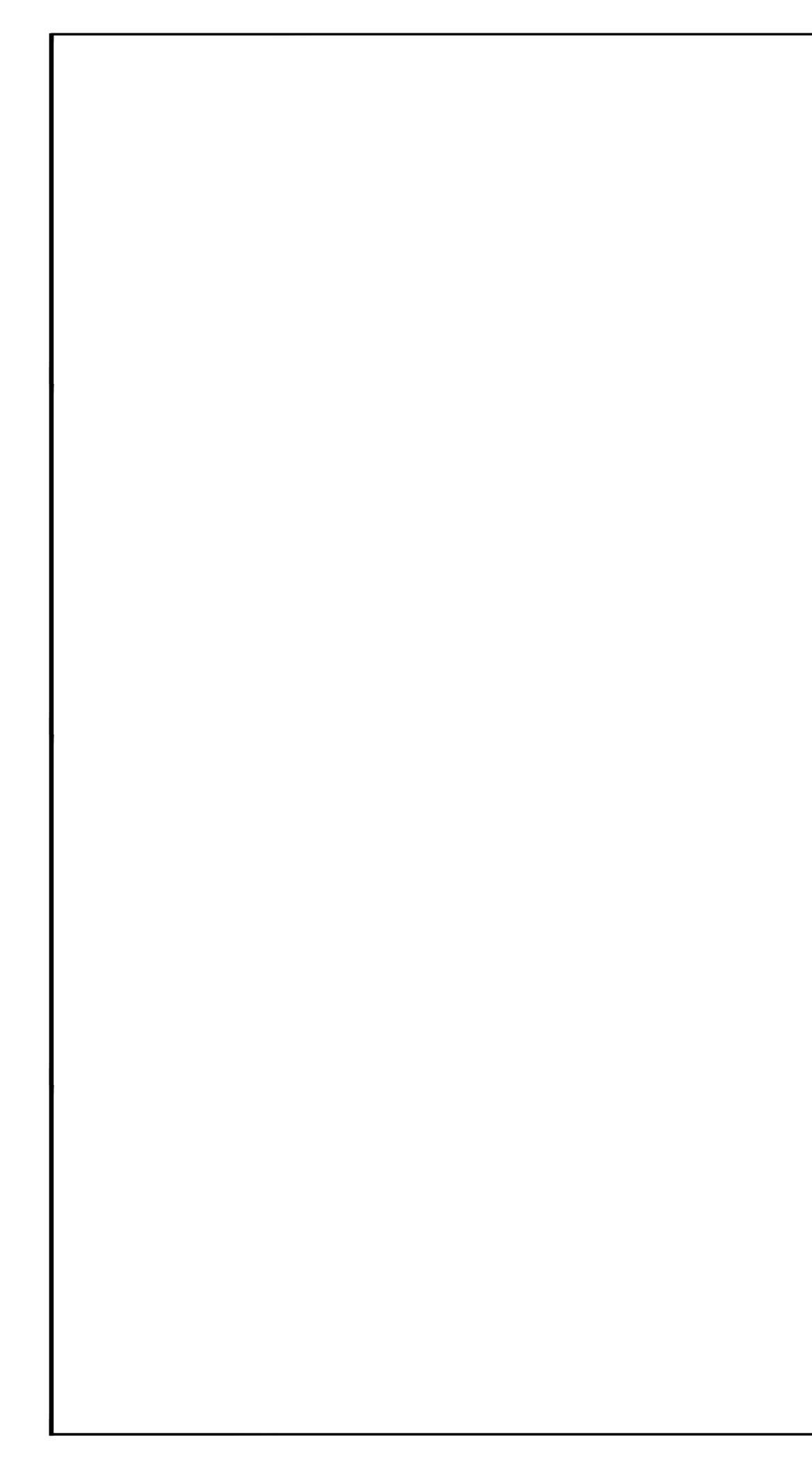


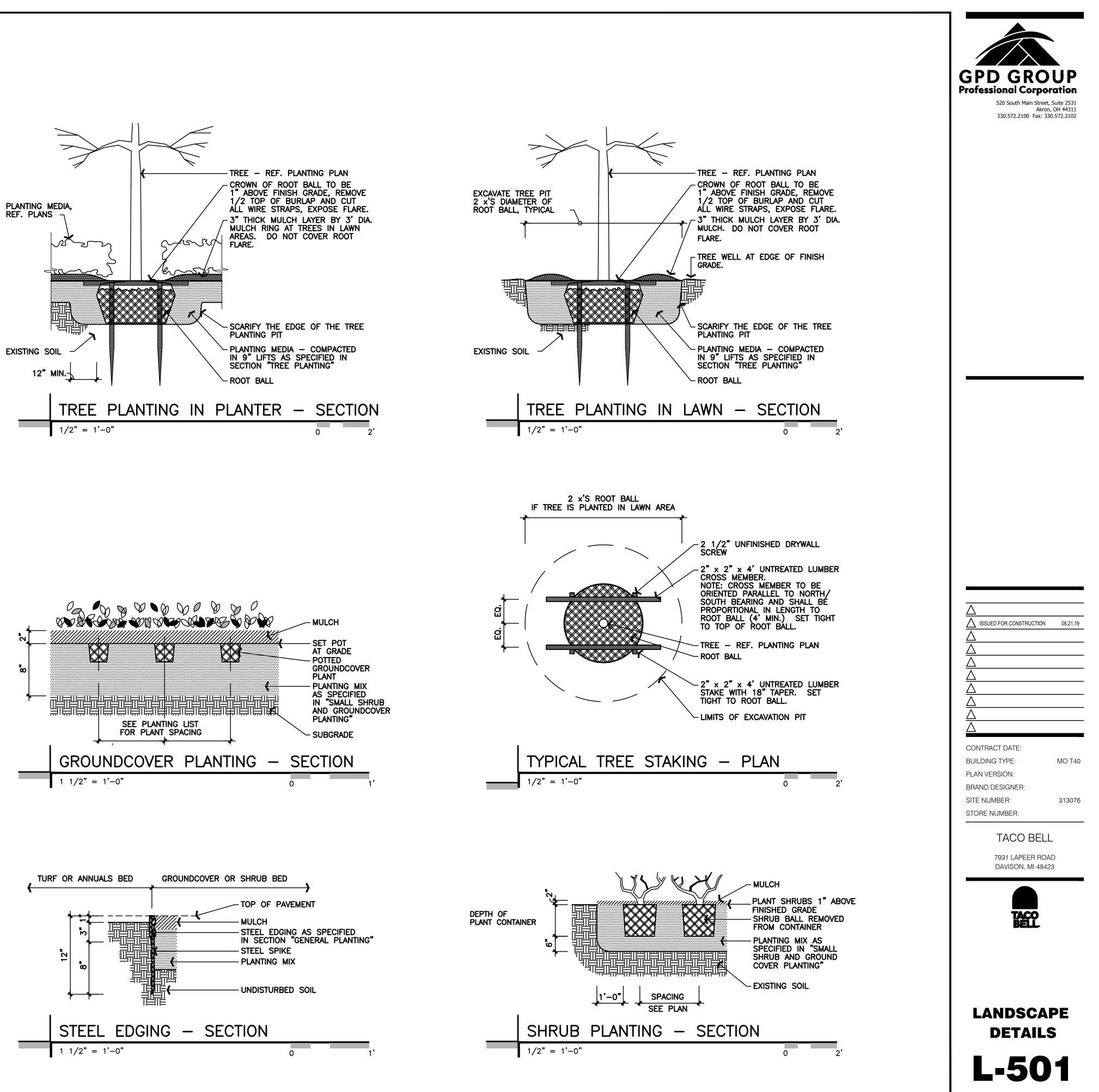
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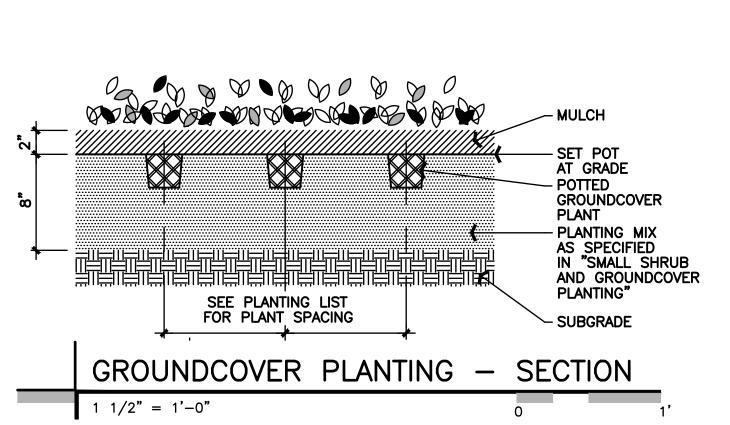
TACO BELL

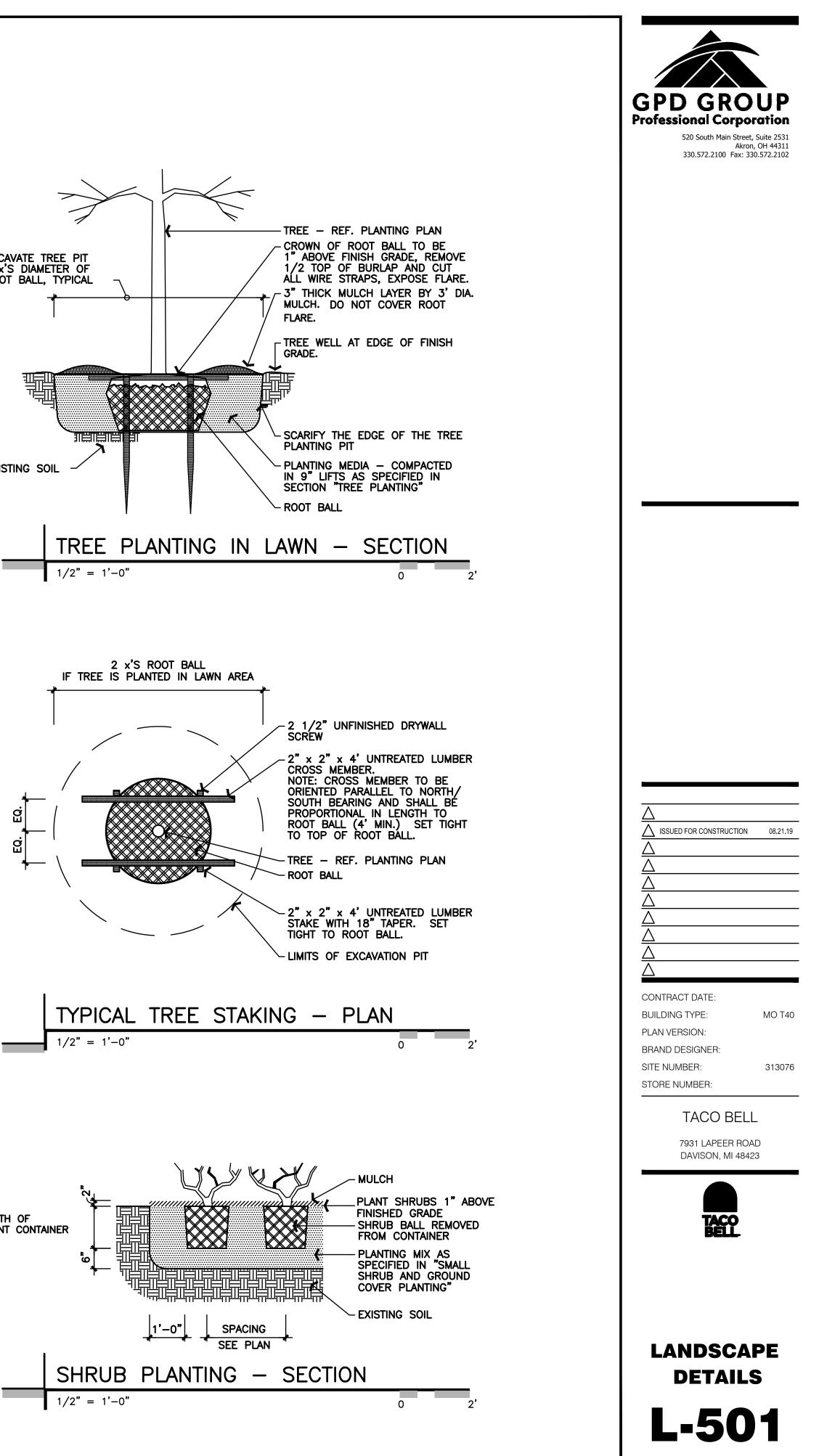


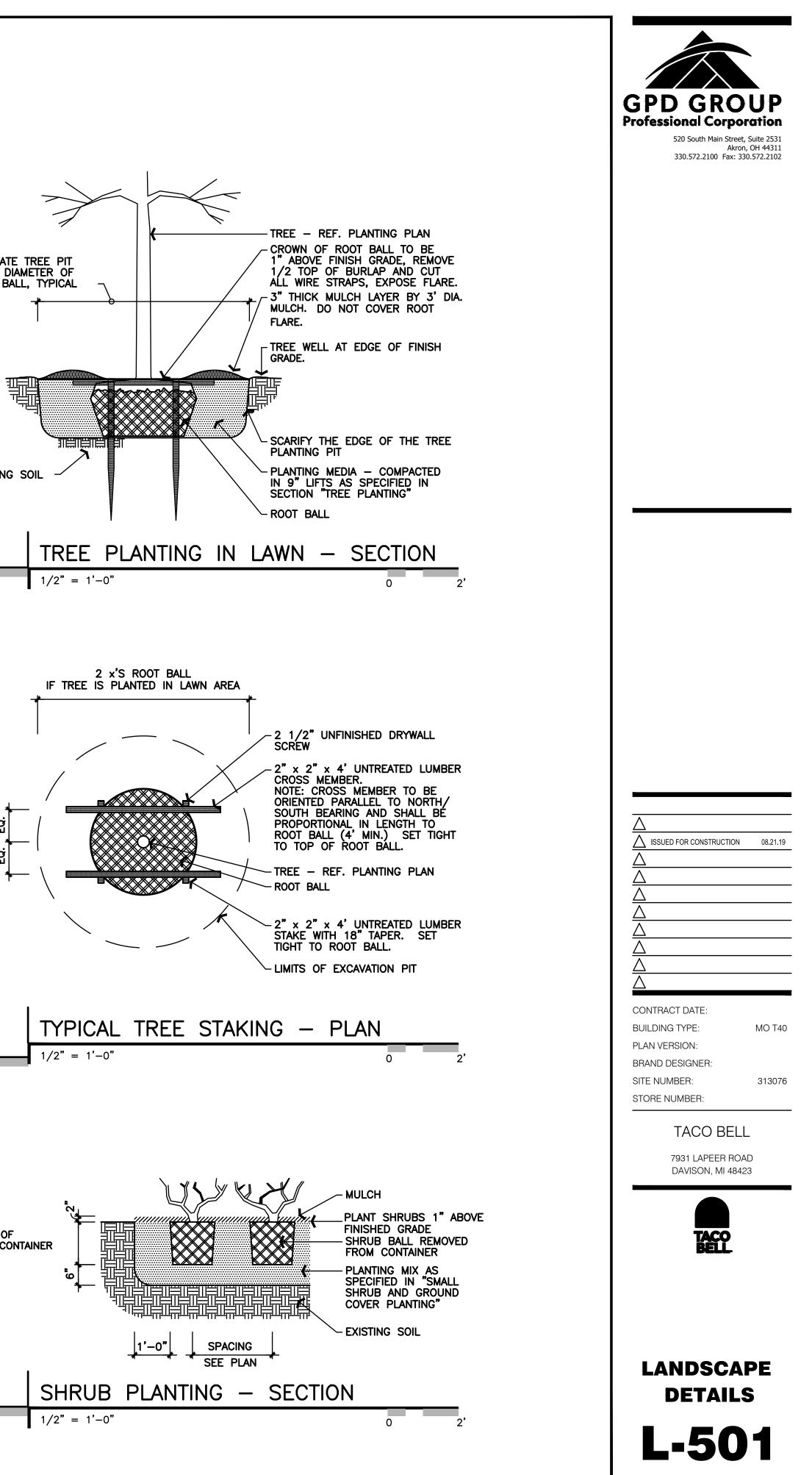


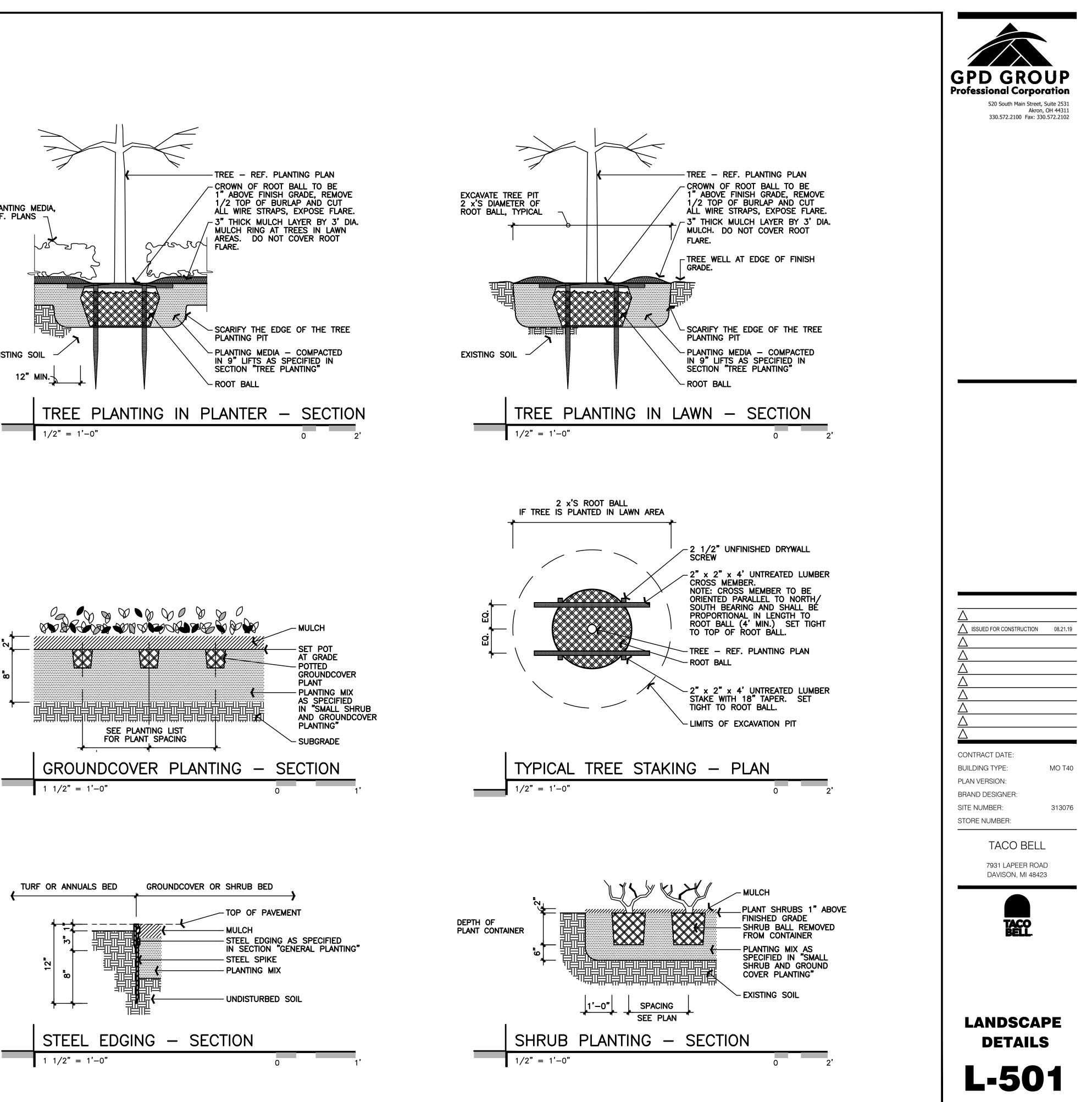


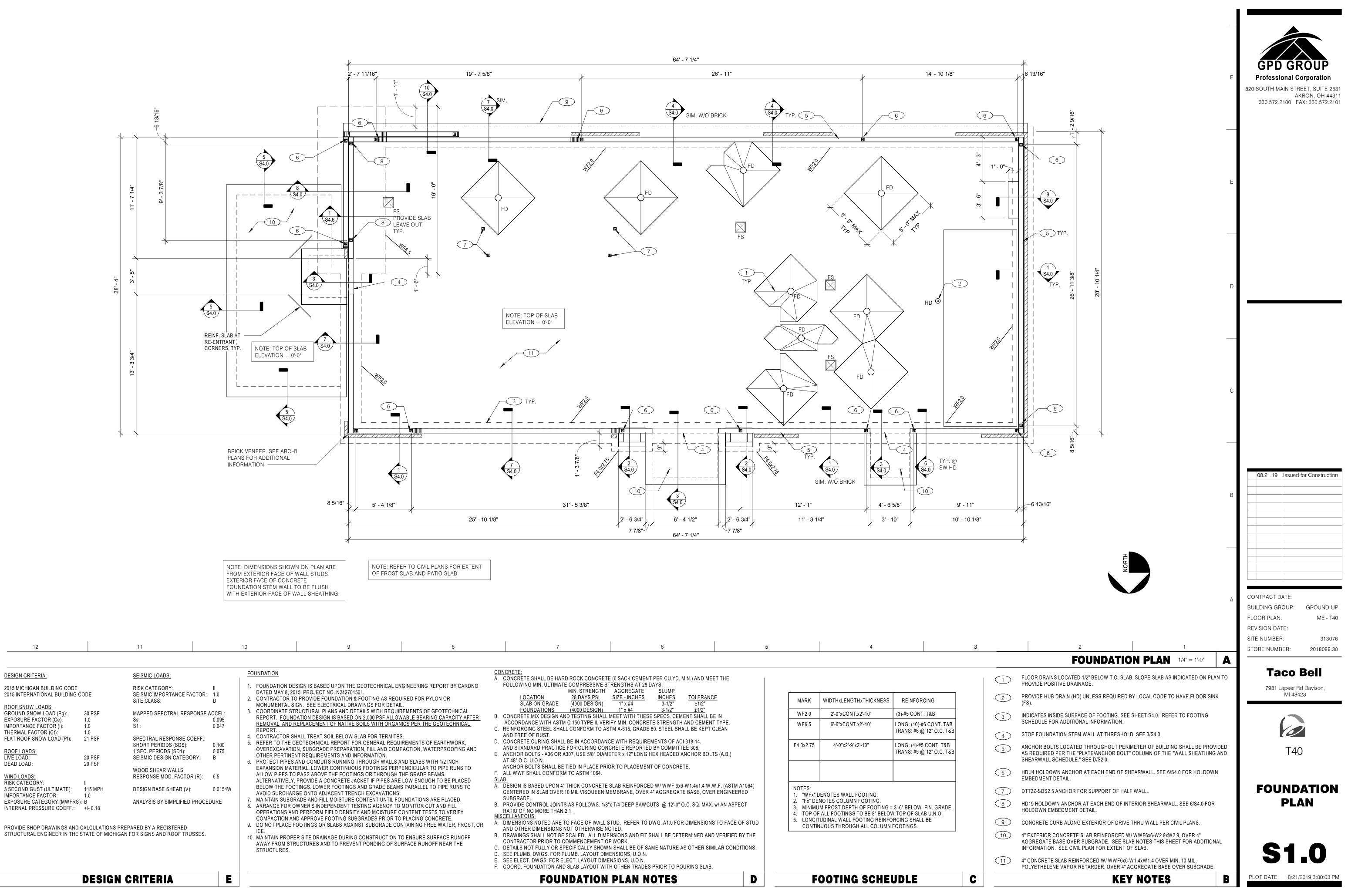






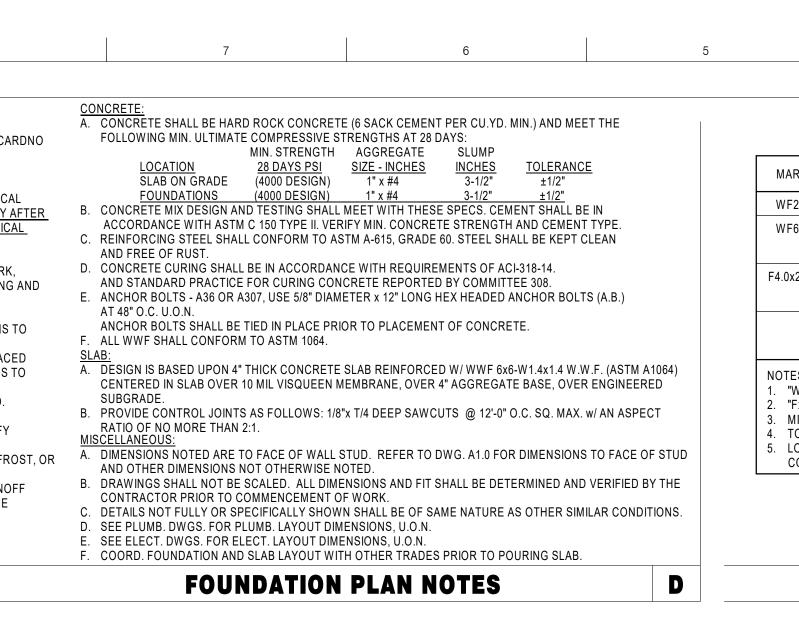




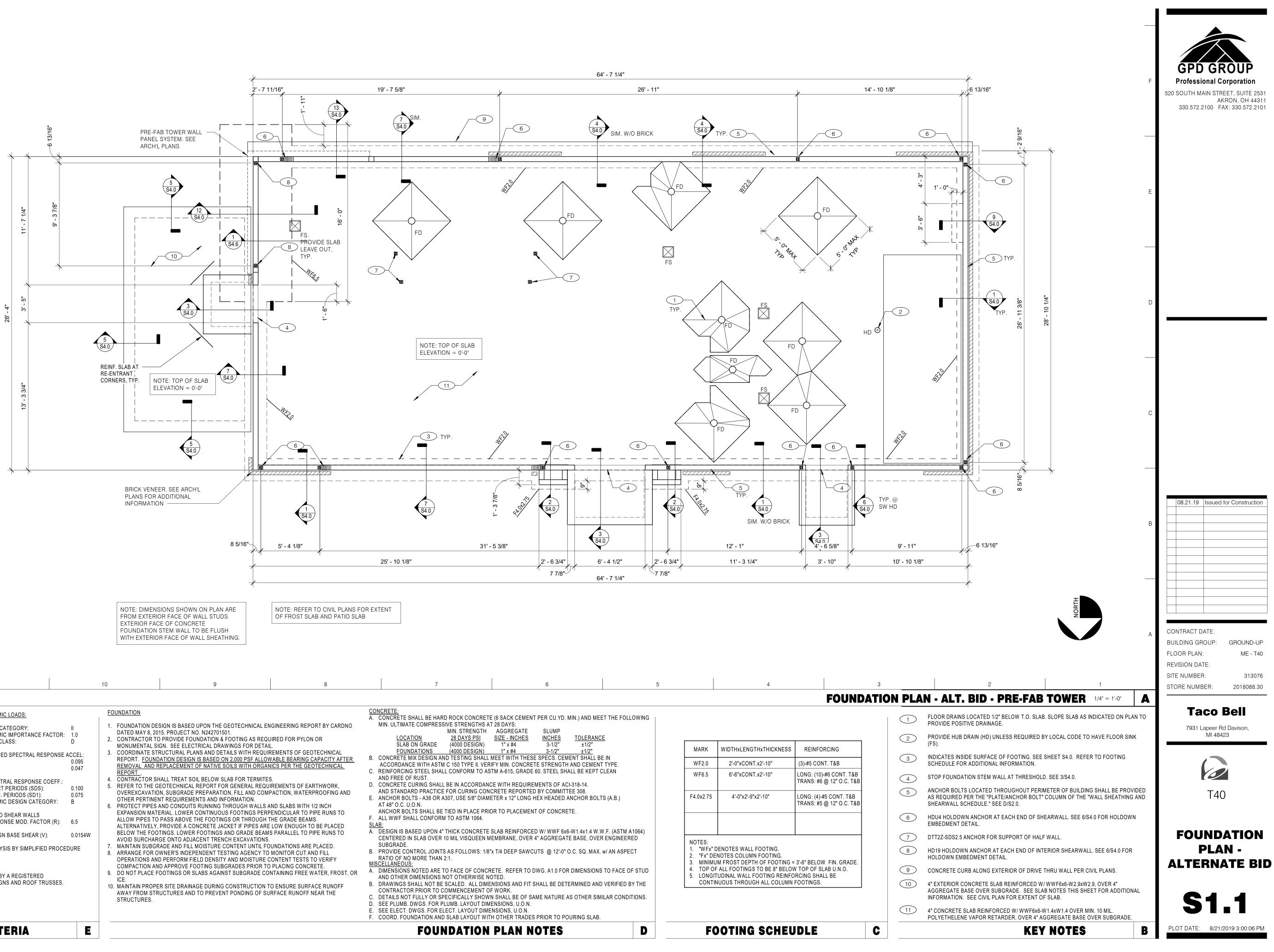


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<u>ROOF SNOW LOADS:</u>		
GROUND SNOW LOAD (Pg):	30 PSF	MAPPE
EXPOSURE FACTOR (Ce):	1.0	Ss:
IMPORTANCE FACTOR (I):	1.0	S1:
THERMAL FACTOR (Ct):	1.0	
FLAT ROOF SNOW LOÁD (Pf):	21 PSF	SPECTR
( ),		SHORT
ROOF LOADS:		1 SEC. F
LIVE LOAD:	20 PSF	SEISMIC
DEAD LOAD:	20 PSF	
		WOODS
WIND LOADS:		RESPON
RISK CATEGORY:		
3 SECOND GUST (ULTIMATE):	115 MPH	DESIGN
IMPORTANCE FACTOR:	1.0	
EXPOSURE CATEGORY (MWFRS):	В	ANALYS
INTERNAL PRESSURE COEFF.:	+/- 0.18	

PROVIDE SHOP DRAWINGS AND CALCULATIONS PREPARED BY A REGISTERED STRUCTURAL ENGINEER IN THE STATE OF MICHIGAN FOR SIGNS AND ROOF TRUSSES.



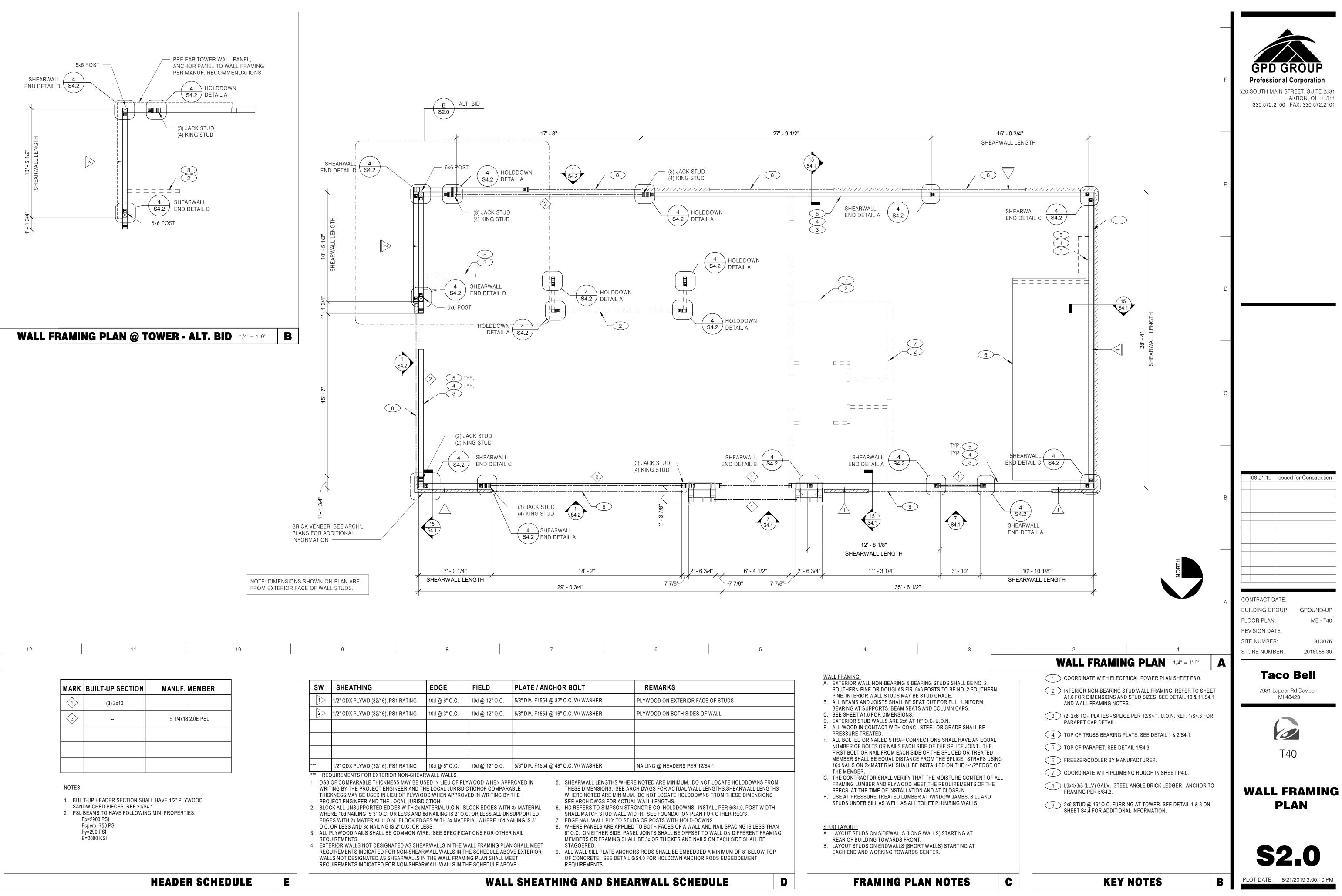
MARK	WIDTHXLENGTHXTHICKNESS	REINFORCING
WF2.0	2'-0"xCONT.x2'-10"	(3)-#5 CONT. T&B
WF6.5	6'-6"xCONT.x2'-10"	LONG: (10)-#6 CONT. T&B TRANS: #6 @ 12" O.C. T&B
F4.0x2.75	4'-0"x2'-9"x2'-10"	LONG: (4)-#5 CONT. T&B TRANS: #5 @ 12" O.C. T&B
<ol> <li>2. "Fx" DE</li> <li>3. MINIMU</li> <li>4. TOP OF</li> </ol>	NENOTES WALL FOOTING. NOTES COLUMN FOOTING. M FROST DEPTH OF FOOTING = ALL FOOTINGS TO BE 8" BELOV	V TOP OF SLAB U.N.O.



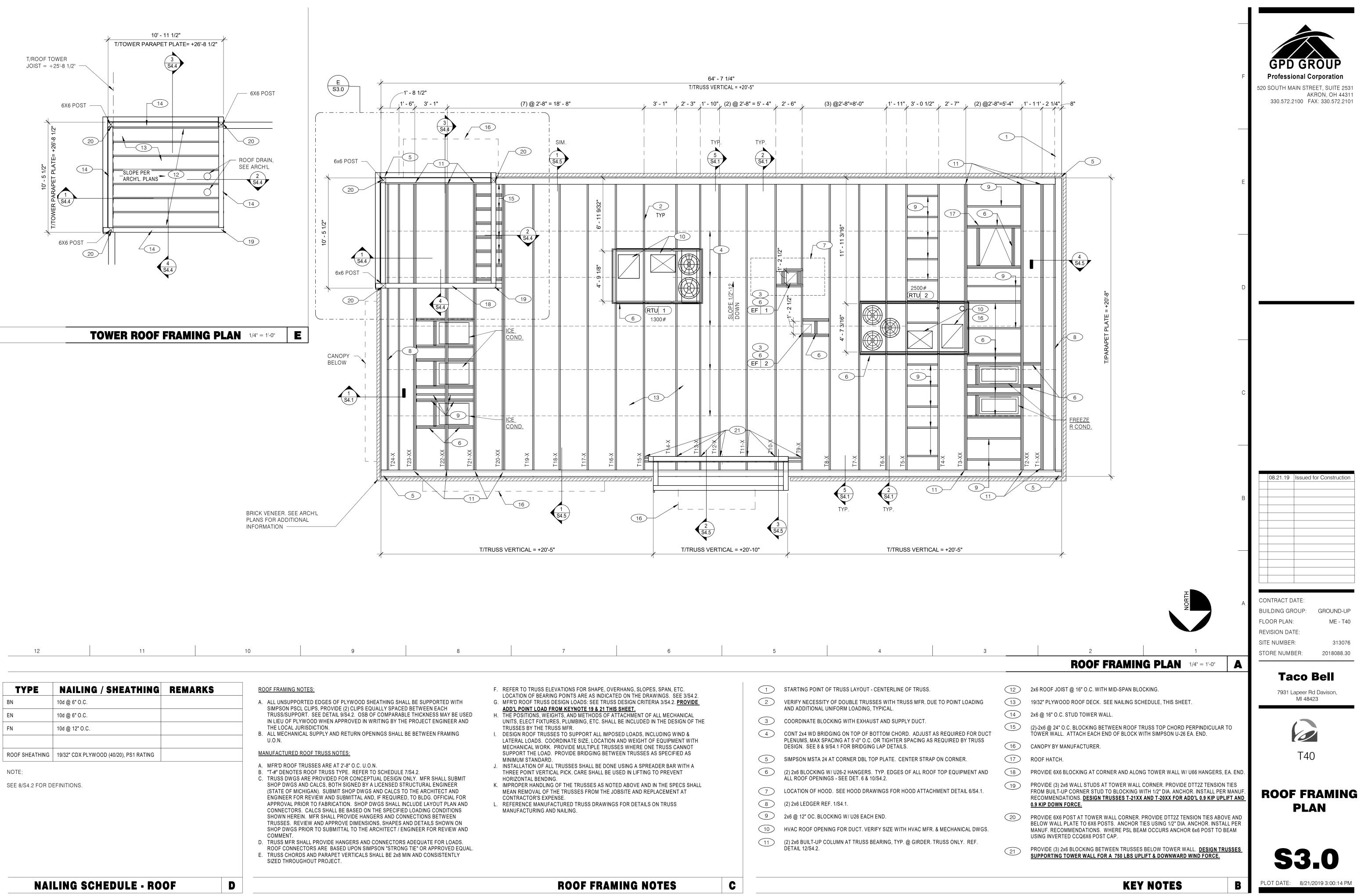
12		11		10	9		
DESIGN CRITERIA:		SEISMIC LOADS:		FOUNDATION			
2015 MICHIGAN BUILDING CODE 2015 INTERNATIONAL BUILDING C <u>ROOF SNOW LOADS:</u> GROUND SNOW LOAD (Pg): EXPOSURE FACTOR (Ce): IMPORTANCE FACTOR (I): THERMAL FACTOR (Ct): FLAT ROOF SNOW LOAD (Pf): <u>ROOF LOADS:</u> LIVE LOAD: DEAD LOAD: <u>WIND LOADS:</u> RISK CATEGORY: 3 SECOND GUST (ULTIMATE): IMPORTANCE FACTOR: EXPOSURE CATEGORY (MWFRS): INTERNAL PRESSURE COEFF.:	30 PSF 1.0 1.0 21 PSF 20 PSF 20 PSF II 115 MPH 1.0	RISK CATEGORY: SEISMIC IMPORTANCE FAC SITE CLASS: MAPPED SPECTRAL RESPO Ss: S1 : SPECTRAL RESPONSE COE SHORT PERIODS (SDS): 1 SEC. PERIODS (SD1): SEISMIC DESIGN CATEGOR WOOD SHEAR WALLS RESPONSE MOD. FACTOR DESIGN BASE SHEAR (V): ANALYSIS BY SIMPLIFIED P	D DNSE ACCEL: 0.095 0.047 EFF.: 0.100 0.075 RY: B (R): 6.5 0.0154W	<ul> <li>DATED MAY 8, 20</li> <li>CONTRACTOR TO MONUMENTAL SI</li> <li>COORDINATE STI REPORT. FOUND REMOVAL AND R REPORT</li> <li>CONTRACTOR SF</li> <li>REFER TO THE G OVEREXCAVATIO OTHER PERTINEN</li> <li>PROTECT PIPES J EXPANSION MATI ALLOW PIPES TO ALTERNATIVELY, BELOW THE FOO AVOID SURCHAR</li> <li>MAINTAIN SUBGR</li> <li>ARRANGE FOR O OPERATIONS ANI COMPACTION AN</li> </ul>	SIGN IS BASED UPON THE GEOTECH 15. PROJECT NO. N242701501. D PROVIDE FOUNDATION & FOOTING GN. SEE ELECTRICAL DRAWINGS FO RUCTURAL PLANS AND DETAILS WIT DATION DESIGN IS BASED ON 2,000 P REPLACEMENT OF NATIVE SOILS WIT HALL TREAT SOIL BELOW SLAB FOR EOTECHNICAL REPORT FOR GENEF N, SUBGRADE PREPARATION, FILL AND NT REQUIREMENTS AND INFORMATI AND CONDUITS RUNNING THROUGH ERIAL. LOWER CONTINUOUS FOOTIN PASS ABOVE THE FOOTINGS OR TH PROVIDE A CONCRETE JACKET IF P TINGS. LOWER FOOTINGS AND GRA GE ONTO ADJACENT TRENCH EXCA RADE AND FILL MOISTURE CONTENT WNER'S INDEPENDENT TESTING AG D PERFORM FIELD DENSITY AND MC D APPROVE FOOTING SUBGRADES	AS REQUIRED FOR OR DETAIL. TH REQUIREMENTS O SF ALLOWABLE BEA TH ORGANICS PER TH TERMITES. RAL REQUIREMENTS AND COMPACTION, W ON. WALLS AND SLABS NGS PERPENDICULA HOUGH THE GRADE HOUGH THE GRADE HES ARE LOW ENOU DE BEAMS PARALLE VATIONS. UNTIL FOUNDATION SENCY TO MONITOR DISTURE CONTENT TH PRIOR TO PLACING (	PYLON OF <u>RING CAP</u> , <u>HE GEOTE</u> OF EARTH VATERPRC WITH 1/2 II R TO PIPE E BEAMS. UGH TO BE L TO PIPE IS ARE PLA CUT AND F ESTS TO V CONCRETE
PROVIDE SHOP DRAWINGS AND CALCULATIONS PREPARED BY A REGISTERED STRUCTURAL ENGINEER IN THE STATE OF MICHIGAN FOR SIGNS AND ROOF TRUSSES.			ICE. 10. MAINTAIN PROPE	OOTINGS OR SLABS AGAINST SUBG	UCTION TO ENSURE	SURFACE	

**DESIGN CRITERIA** 

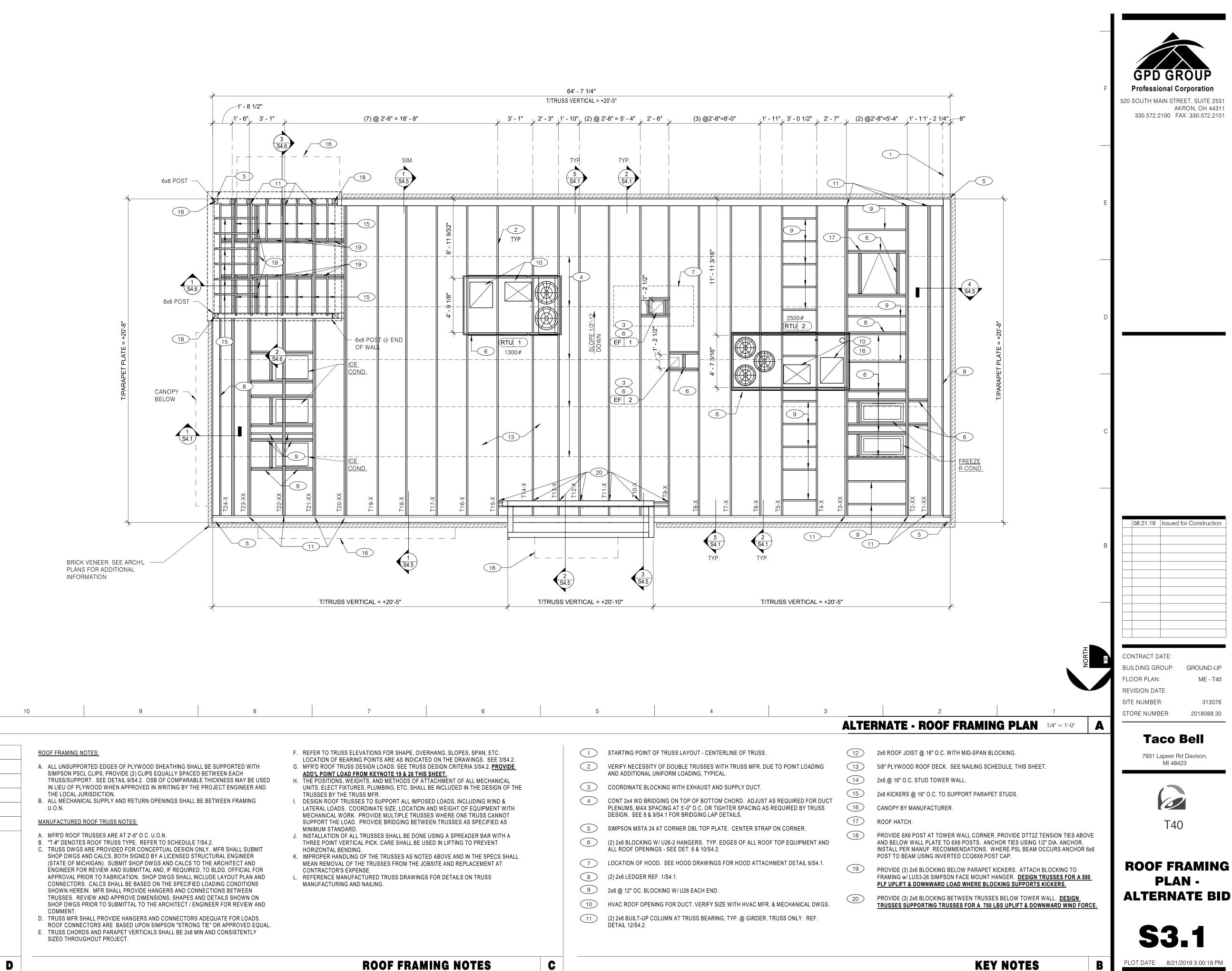
MARK WIDTHxLENGTHxTHICKNESS		REINFORCING	
WF2.0	2'-0"xCONT.x2'-10"	(3)-#5 CONT. T&B	
WF6.5	6'-6"xCONT.x2'-10"	LONG: (10)-#6 CONT. T&B TRANS: #6 @ 12" O.C. T&B	
F4.0x2.75	4'-0"x2'-9"x2'-10"	LONG: (4)-#5 CONT. T&B TRANS: #5 @ 12" O.C. T&E	
<ul> <li>NOTES:</li> <li>1. "WFx" DENOTES WALL FOOTING.</li> <li>2. "Fx" DENOTES COLUMN FOOTING.</li> <li>3. MINIMUM FROST DEPTH OF FOOTING = 3'-6" BELOW FIN. GRADE.</li> <li>4. TOP OF ALL FOOTINGS TO BE 8" BELOW TOP OF SLAB U.N.O.</li> <li>5. LONGITUDINAL WALL FOOTING REINFORCING SHALL BE CONTINUOUS THROUGH ALL COLUMN FOOTINGS.</li> </ul>			



	FIELD	PLATE / ANCHOR BOLT		REMARKS
	10d @ 12" O.C.	5/8" DIA. F1554 @ 3	2" O.C. W/ WASHER	PLYWOOD ON EXTERIOR FACE OF STUDS
•	10d @ 12" O.C.	5/8" DIA. F1554 @ 1	6" O.C. W/ WASHER	PLYWOOD ON BOTH SIDES OF WALL
	10d @ 12" O.C.	5/8" DIA. F1554 @ 4	8" O.C. W/ WASHER	NAILING @ HEADERS PER 12/S4.1
ISDIC ROV N. BI " O.C ATE FICA IFICA IS W N TH RAMI	WOOD WHEN APPI CTIONOF COMPARA ED IN WRITING BY OCK EDGES WITH OCK EDGES WITH OCK EDGES WITH OCK EDGES WITH OCK EDGES WITH TONS FOR OTHER ALL FRAMING PLAN IE SCHEDULE ABO IE SCHEDULE ABO	NBLE THE 3x MATERIAL SUPPORTED AILING IS 3" X NAIL N SHALL MEET VE.EXTERIOR	<ul> <li>THESE DIMENSIONS. SEE A WHERE NOTED ARE MINIMU SEE ARCH DWGS FOR ACTU</li> <li>HD REFERS TO SIMPSON S' SHALL MATCH STUD WALL V</li> <li>EDGE NAIL WALL PLY TO ST</li> <li>WHERE PANELS ARE APPLI</li> <li>6" O.C. ON EITHER SIDE, PA MEMBERS OR FRAMING SH STAGGERED.</li> <li>ALL WALL SILL PLATE ANCH</li> </ul>	ERE NOTED ARE MINIMUM. DO NOT LOCATE HOLDDOWNS FROM ARCH DWGS FOR ACTUAL WALL LENGTHS.SHEARWALL LENGTHS JM. DO NOT LOCATE HOLDDOWNS FROM THESE DIMENSIONS. JAL WALL LENGTHS. TRONGTIE CO. HOLDDOWNS. INSTALL PER 6/S4.0. POST WIDTH WIDTH. SEE FOUNDATION PLAN FOR OTHER REQ'S. TUDS OR POSTS WITH HOLD-DOWNS. ED TO BOTH FACES OF A WALL AND NAIL SPACING IS LESS THAN ANEL JOINTS SHALL BE OFFSET TO WALL ON DIFFERENT FRAMING ALL BE 3x OR THICKER AND NAILS ON EACH SIDE SHALL BE HORS RODS SHALL BE EMBEDDED A MINIMUM OF 8" BELOW TOP L 6/S4.0 FOR HOLDOWN ANCHOR RODS EMBEDDEMENT



F. REFER TO TRUSS ELEVATIONS FOR SHAPE, OVERHANG, SLOPES, SPAN, ETC.
F. REFER TO TRUSS ELEVATIONS FOR SHAFE, OVERHANG, SLOFES, SPAN, ETC.
LOCATION OF BEARING POINTS ARE AS INDICATED ON THE DRAWINGS. SEE 3/S4.2.



NAILING SCHEDULE - ROOF

11

NAILING / SHEATHING REMARKS

12

10d @ 6" O.C.

10d @ 6" O.C.

10d @ 12" O.C.

ROOF SHEATHING | 19/32" CDX PLYWOOD (40/20), PS1 RATING

TYPE

ΒN

EN

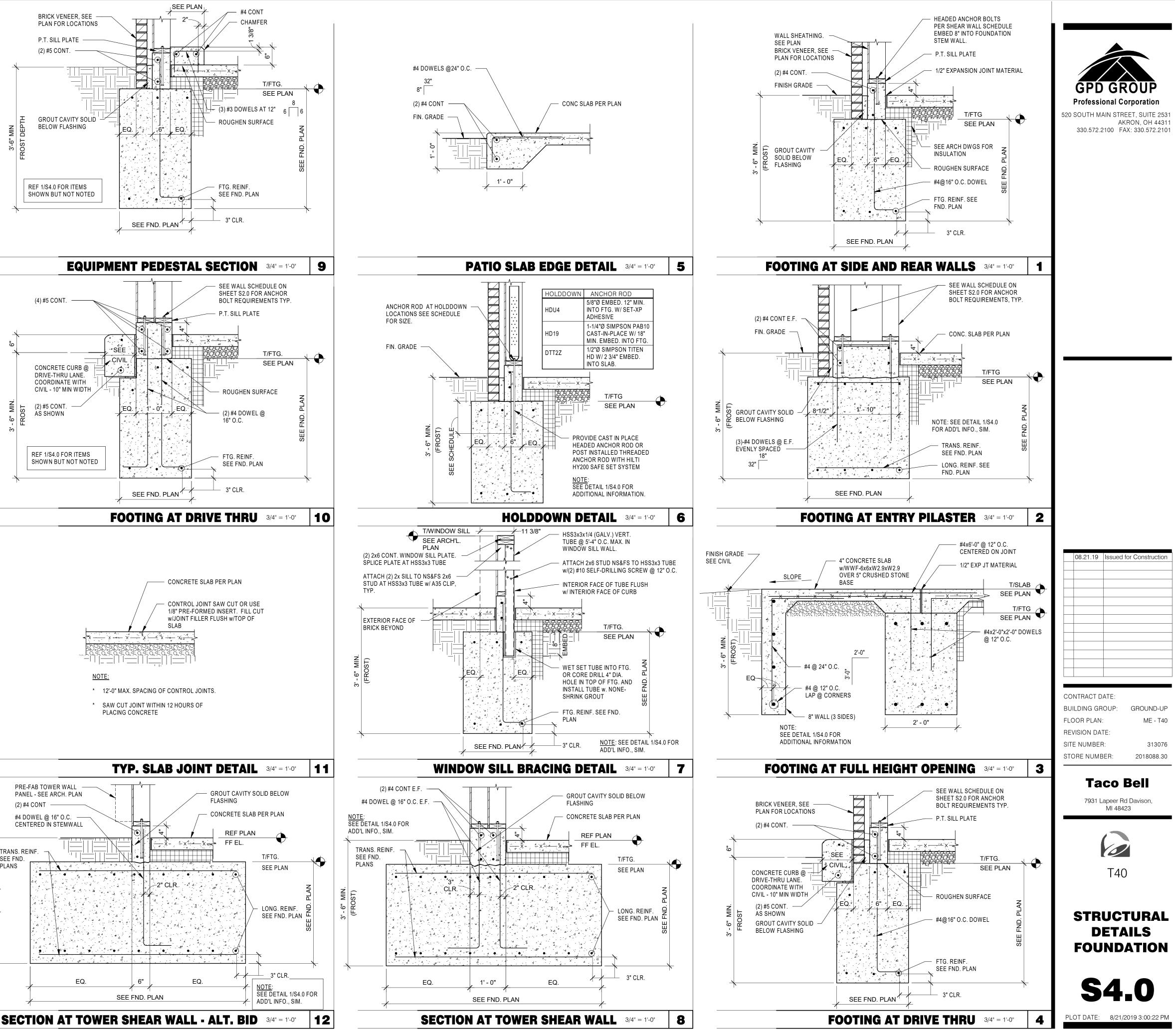
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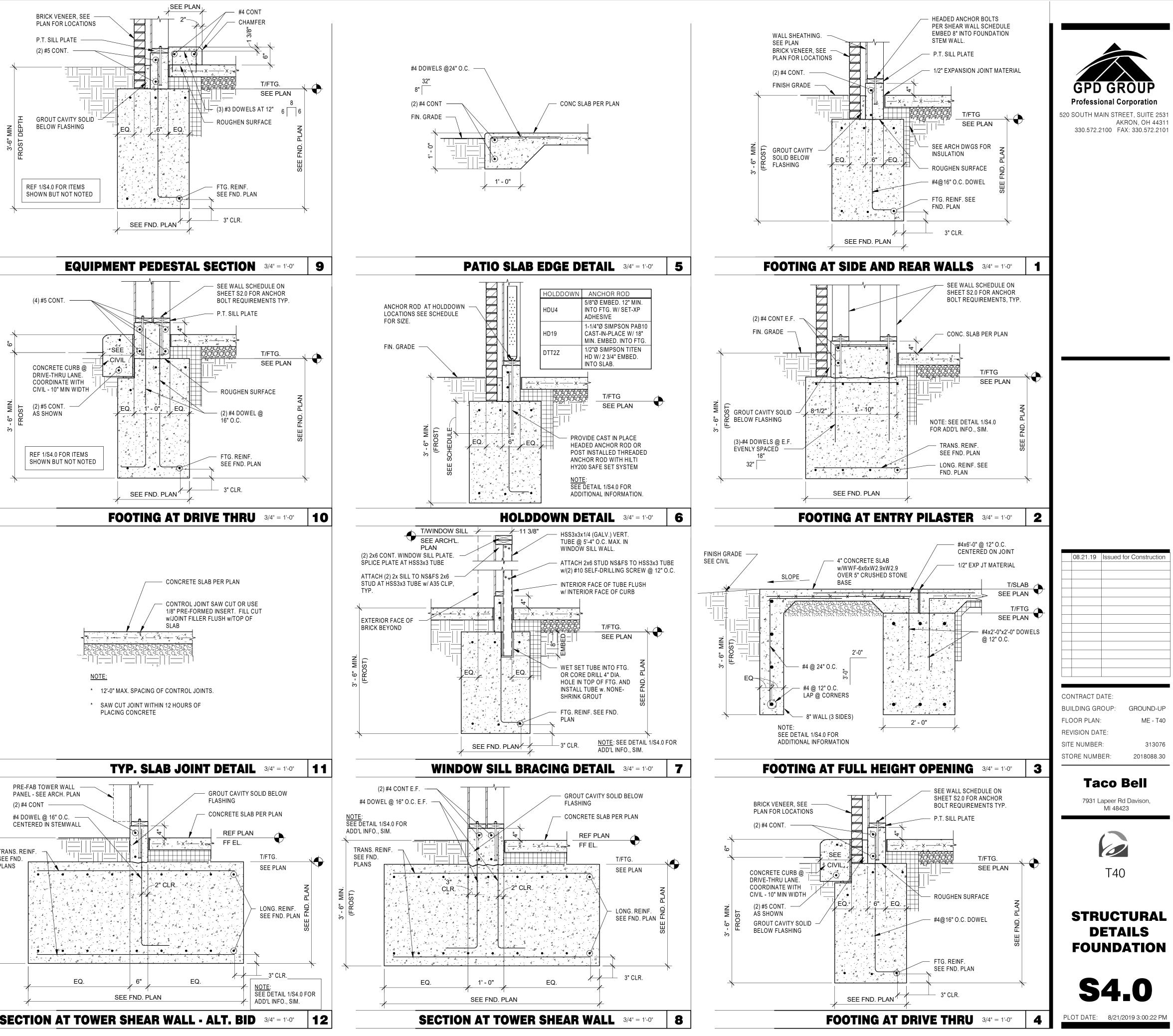
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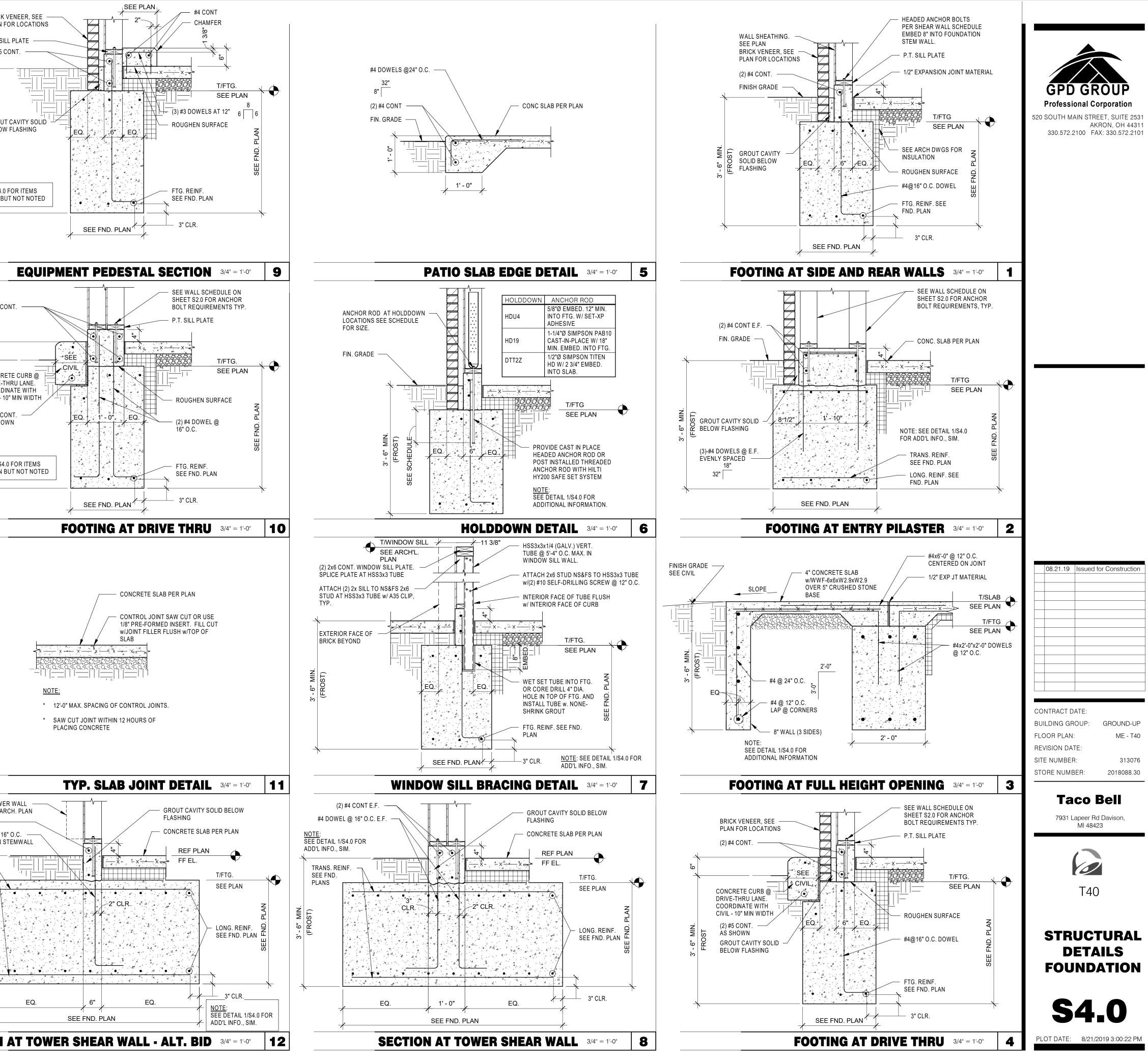
SEE 8/S4.2 FOR DEFINITIONS.

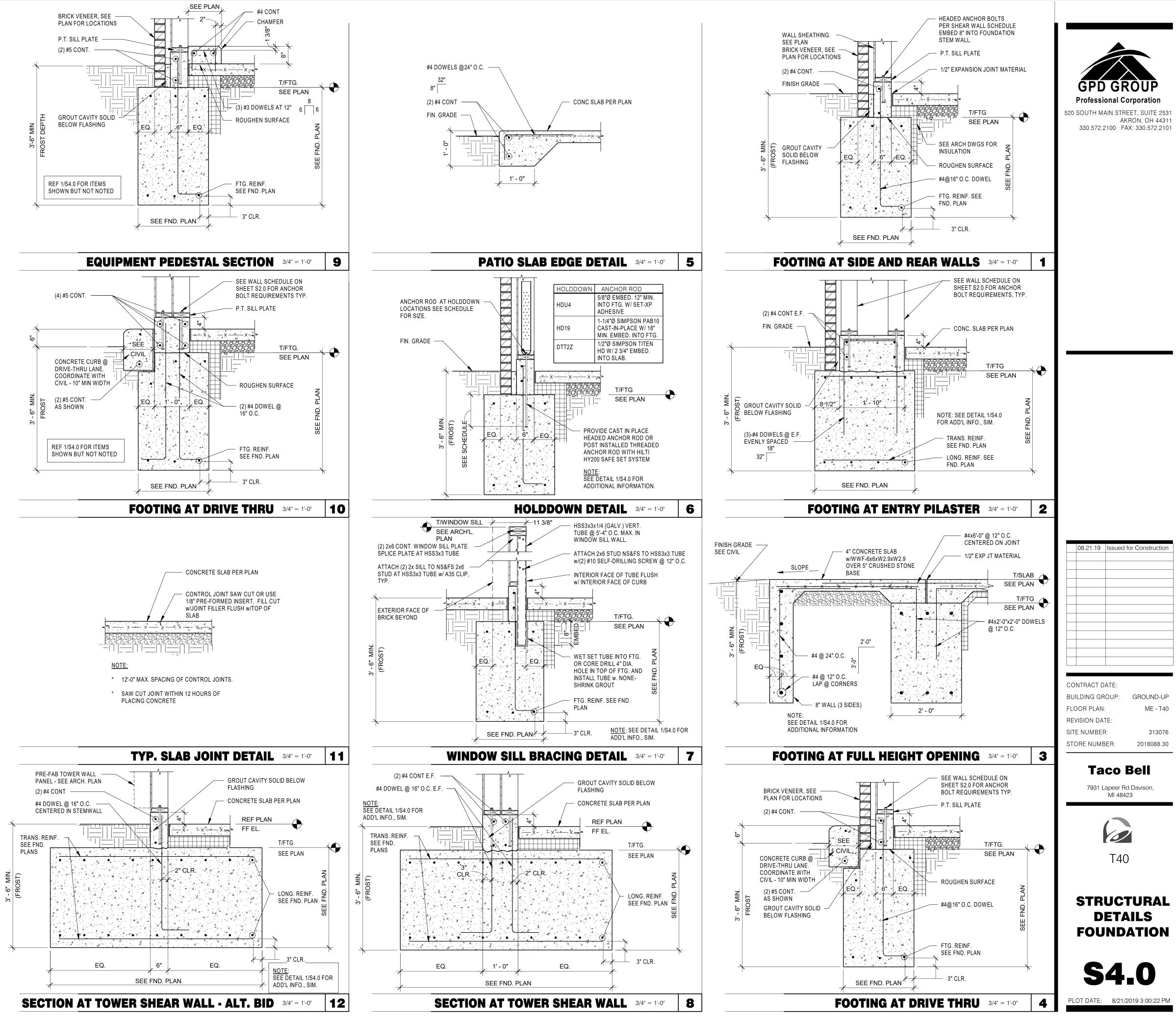
	1 STARTING POINT OF TRUSS LAYOUT - CENTERLINE OF TRUSS.
F. REFER TO TRUSS ELEVATIONS FOR SHAPE, OVERHANG, SLOPES, SPAN, ETC. LOCATION OF BEARING POINTS ARE AS INDICATED ON THE DRAWINGS. SEE 3/S4.2.	1 STARTING POINT OF TRUSS LAYOUT - CENTERLINE OF TRUSS.
G. MFR'D ROOF TRUSS DESIGN LOADS: SEE TRUSS DESIGN CRITERIA 3/S4.2. PROVIDE ADD'L POINT LOAD FROM KEYNOTE 19 & 20 THIS SHEET.	2 VERIFY NECESSITY OF DOUBLE TRUSSES WITH TRUSS MFR. DUE TO POINT LOADING AND ADDITIONAL UNIFORM LOADING, TYPICAL.
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.	3 COORDINATE BLOCKING WITH EXHAUST AND SUPPLY DUCT.
<ol> <li>DESIGN ROOF TRUSSES TO SUPPORT ALL IMPOSED LOADS, INCLUDING WIND &amp; LATERAL LOADS. COORDINATE SIZE, LOCATION AND WEIGHT OF EQUIPMENT WITH MECHANICAL WORK. PROVIDE MULTIPLE TRUSSES WHERE ONE TRUSS CANNOT</li> </ol>	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 8 & 9/S4.1 FOR BRIDGING LAP DETAILS.
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	5 SIMPSON MSTA 24 AT CORNER DBL TOP PLATE. CENTER STRAP ON CORNER.
THREE POINT VERTICAL PICK. CARE SHALL BE USED IN LIFTING TO PREVENT HORIZONTAL BENDING.	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.
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 CONTRACTORS EVENUES.	7 LOCATION OF HOOD. SEE HOOD DRAWINGS FOR HOOD ATTACHMENT DETAIL 6/S4.1.
CONTRACTOR'S EXPENSE. L. REFERENCE MANUFACTURED TRUSS DRAWINGS FOR DETAILS ON TRUSS MANUFACTURING AND NAILING.	8 (2) 2x6 LEDGER REF. 1/S4.1.
MANU AUTONING AND NALLING.	9 2x6 @ 12" OC. BLOCKING W/ U26 EACH END.
	10 HVAC ROOF OPENING FOR DUCT. VERIFY SIZE WITH HVAC MFR. & MECHANICAL DWGS.
	(2) 2x6 BUILT-UP COLUMN AT TRUSS BEARING, TYP. @ GIRDER. TRUSS ONLY. REF. DETAIL 12/S4.2.

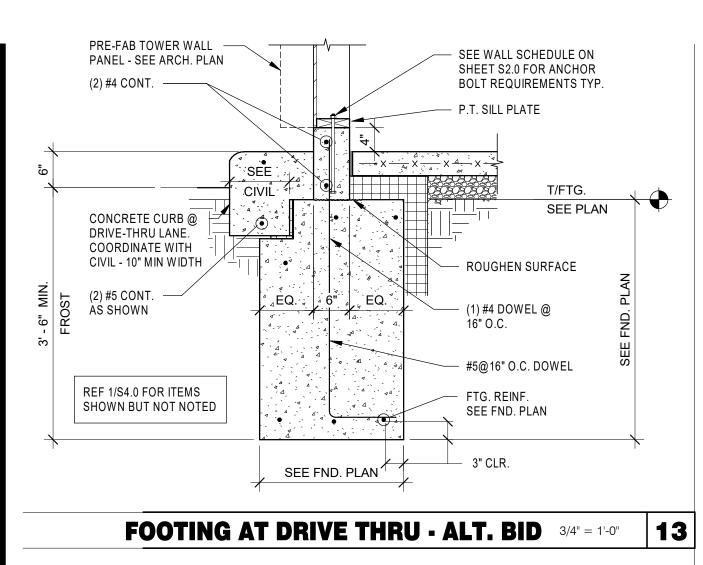
## **ROOF FRAMING NOTES**

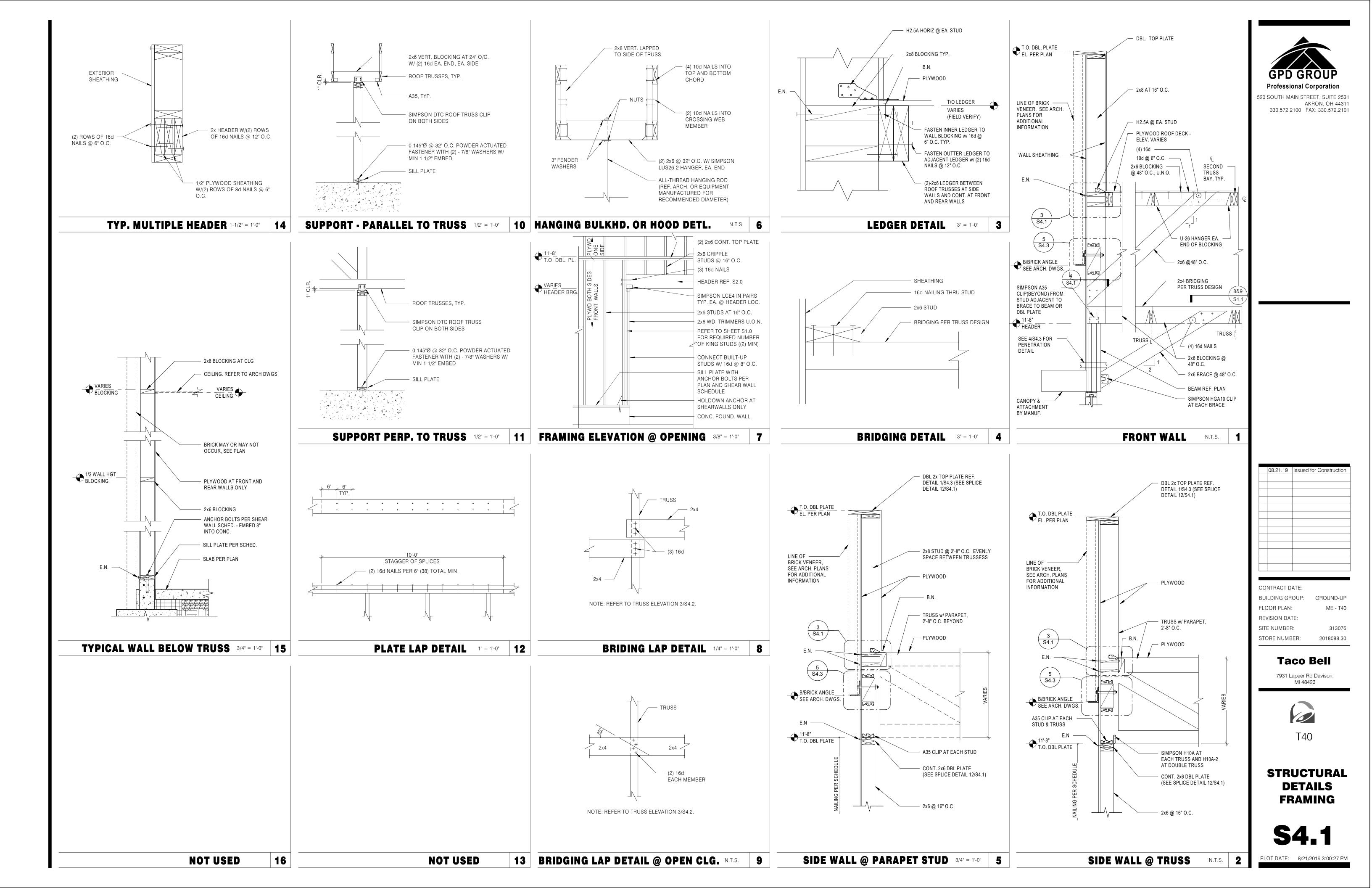


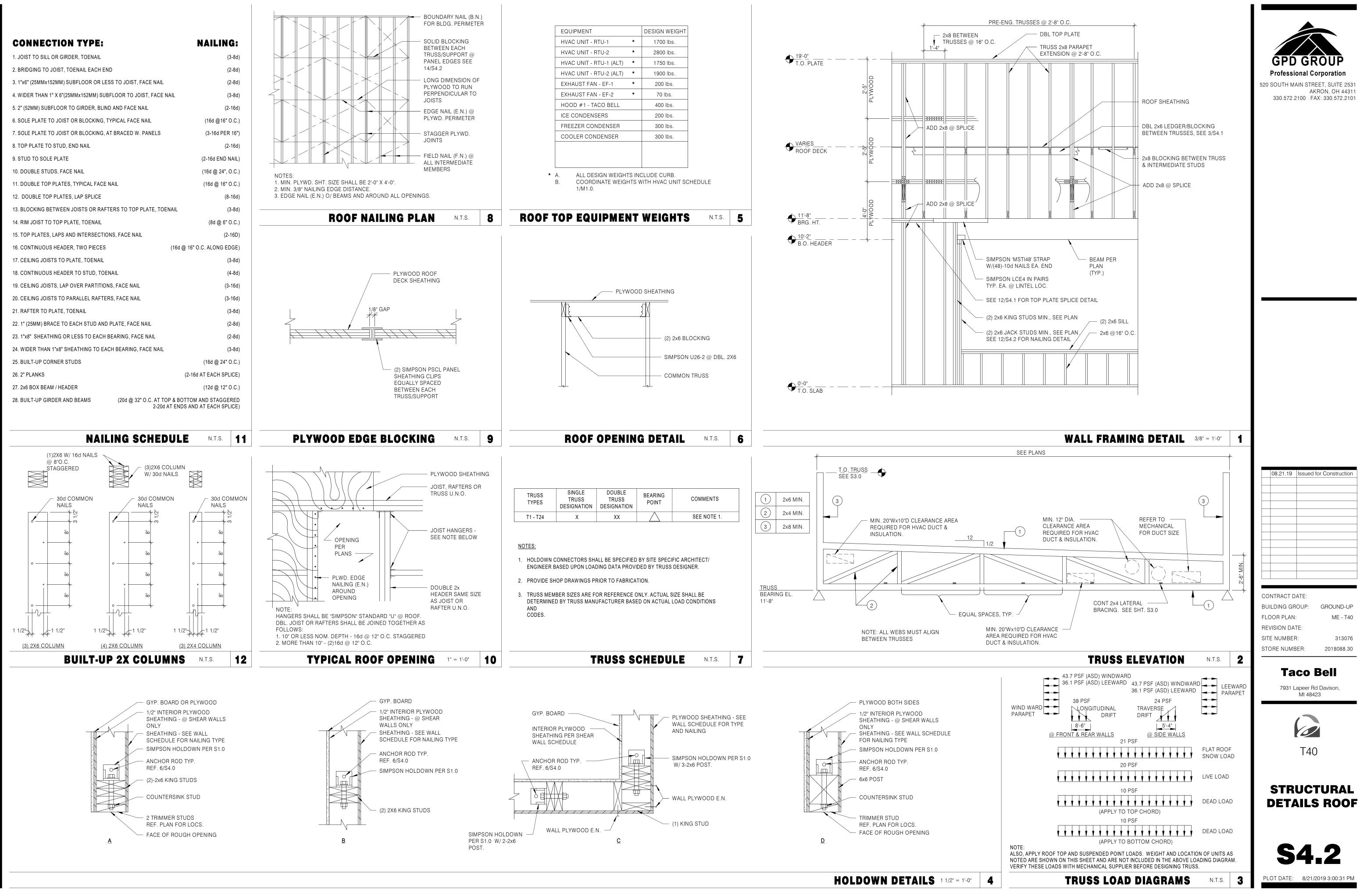


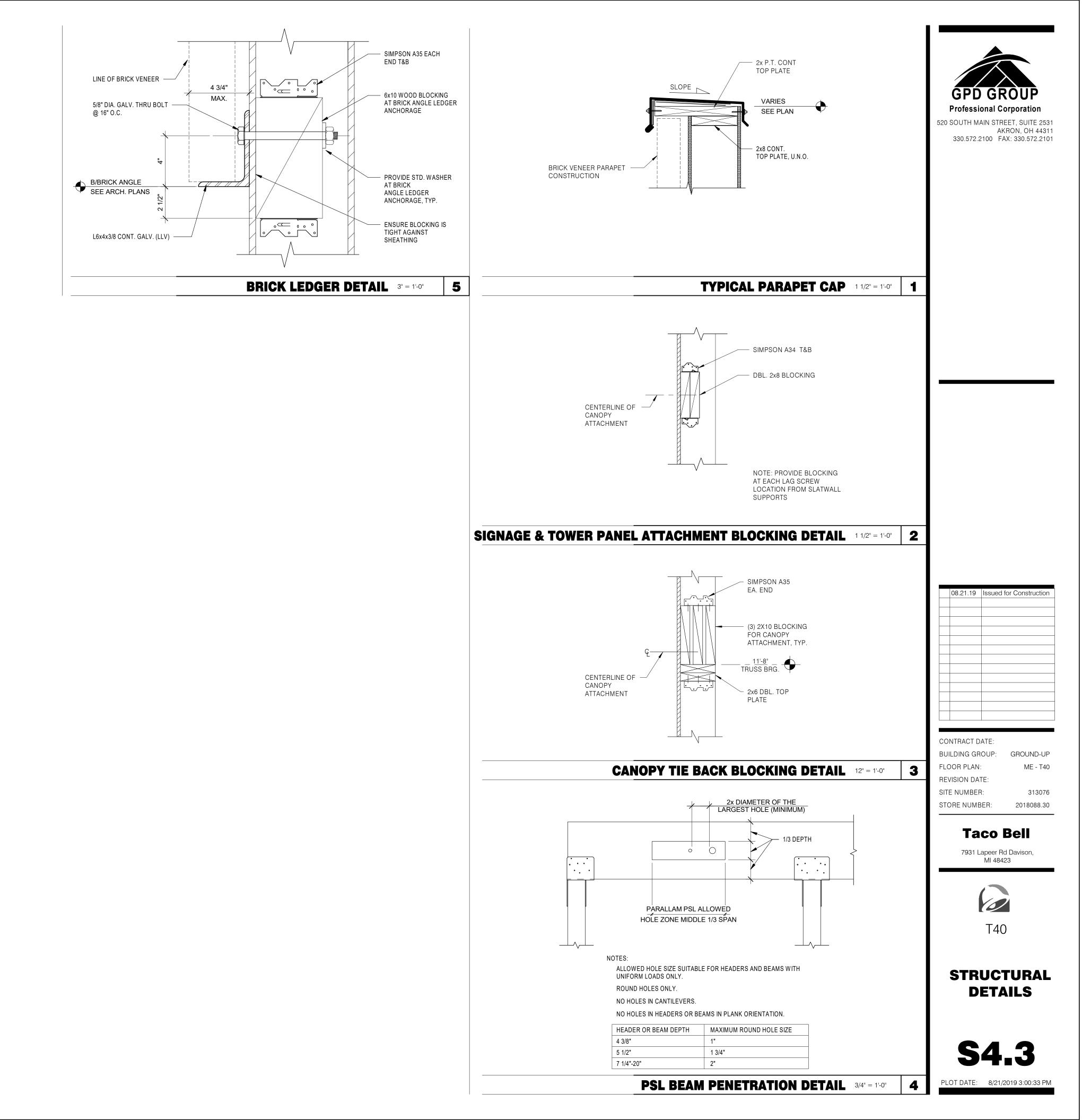


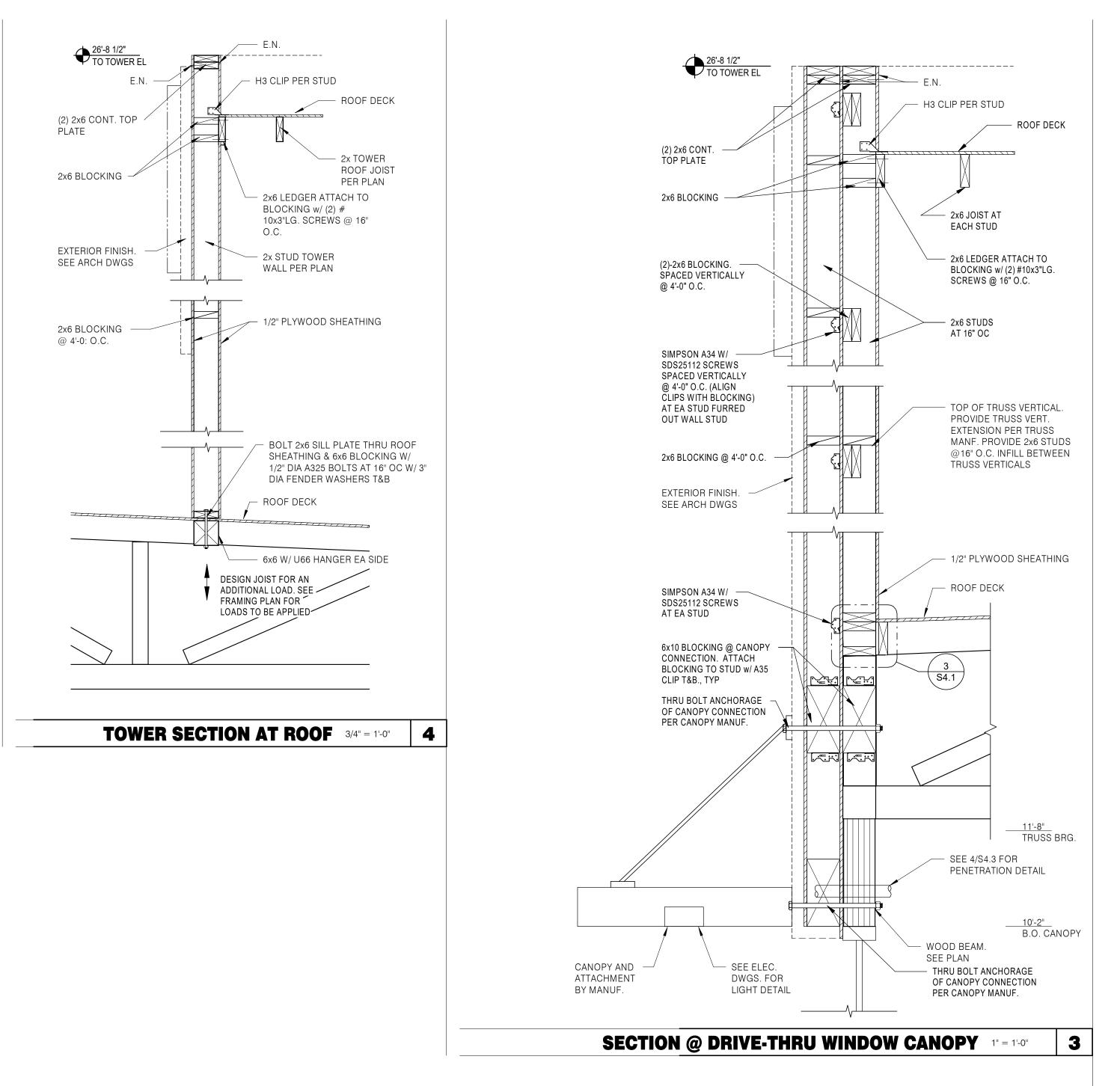


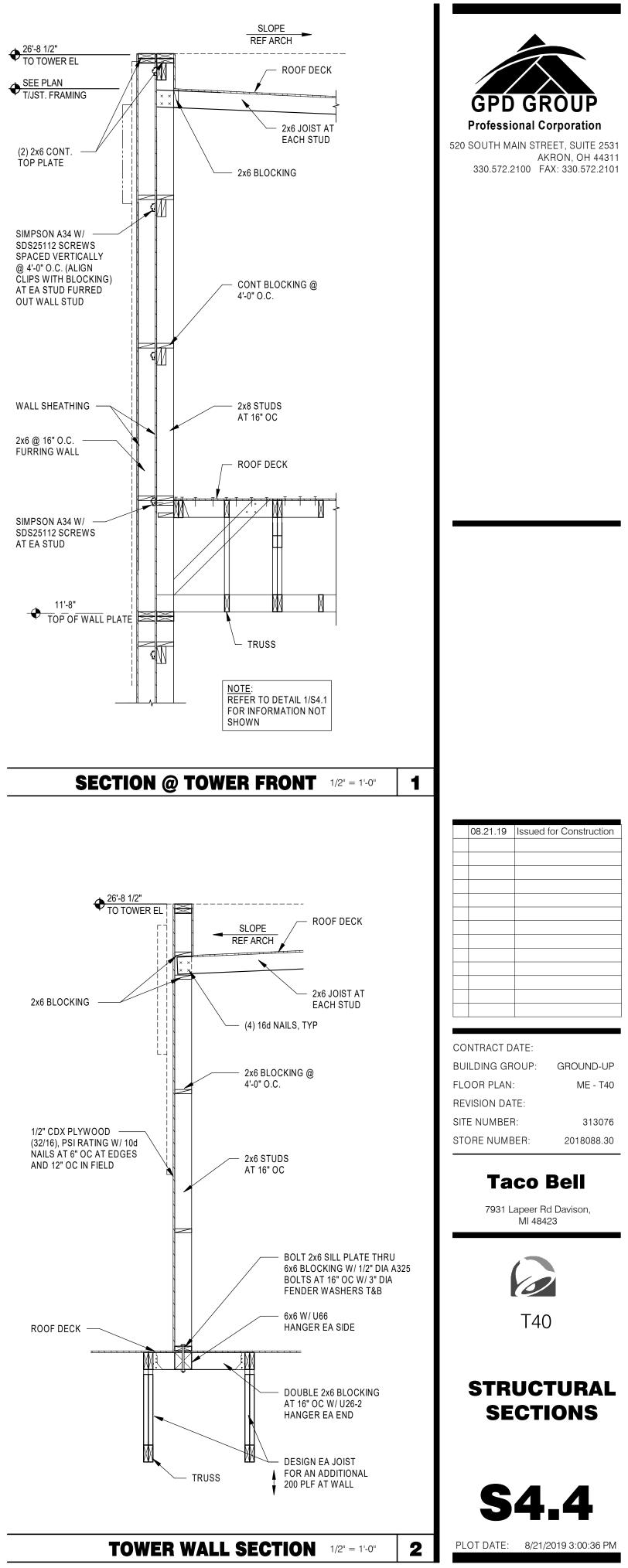




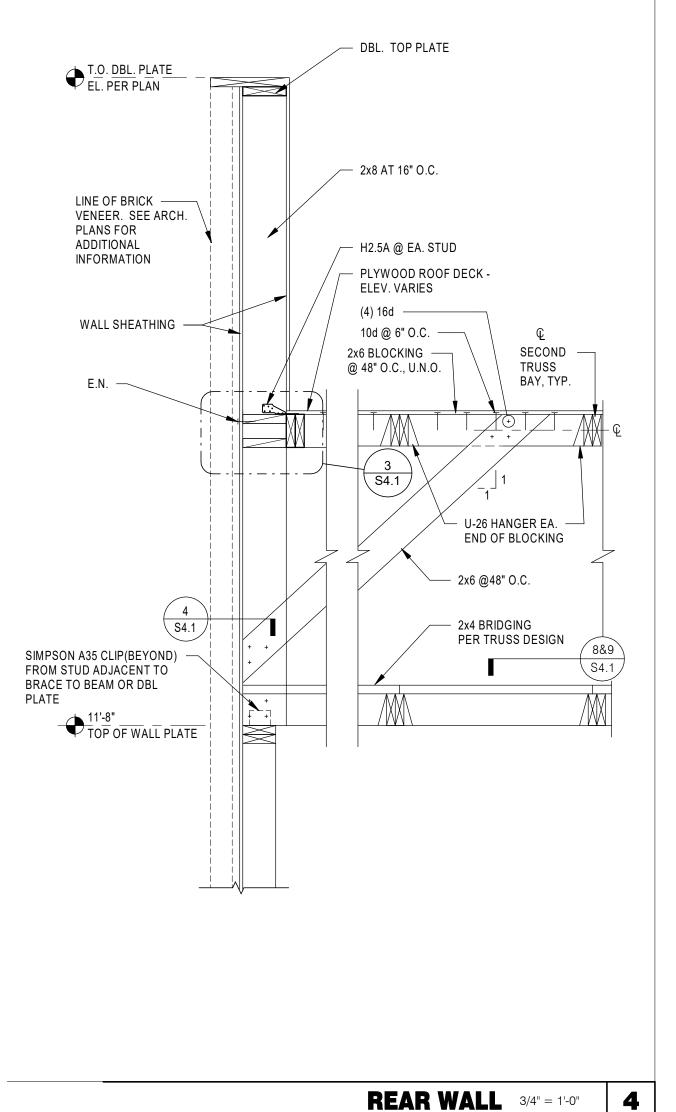


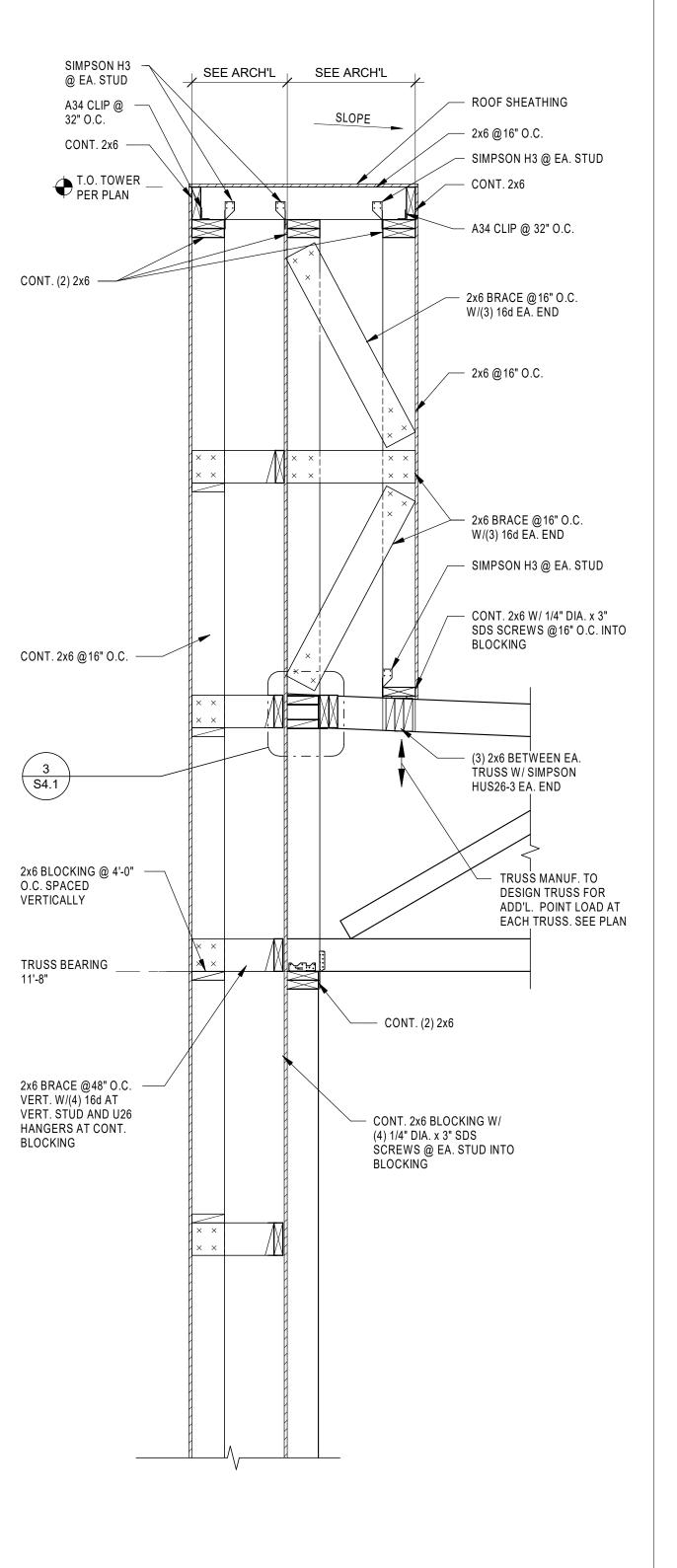


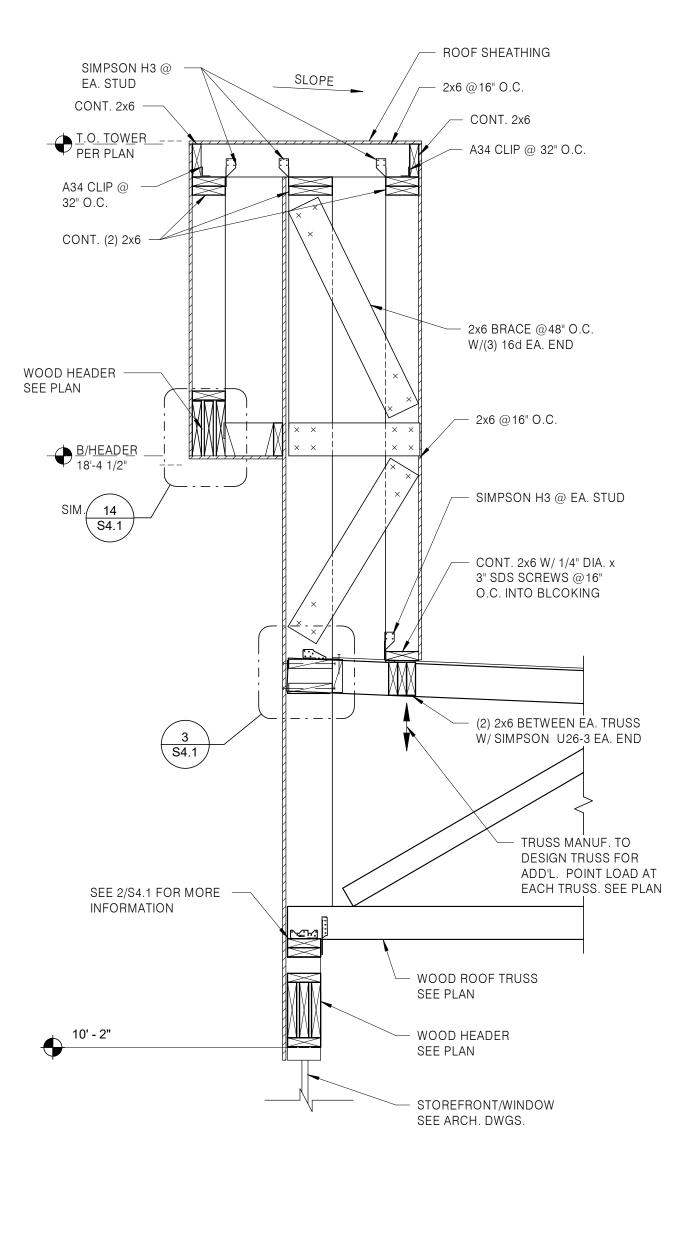




**SECTION @ ENTRY PIER** 3/4" = 1'-0" **3** 

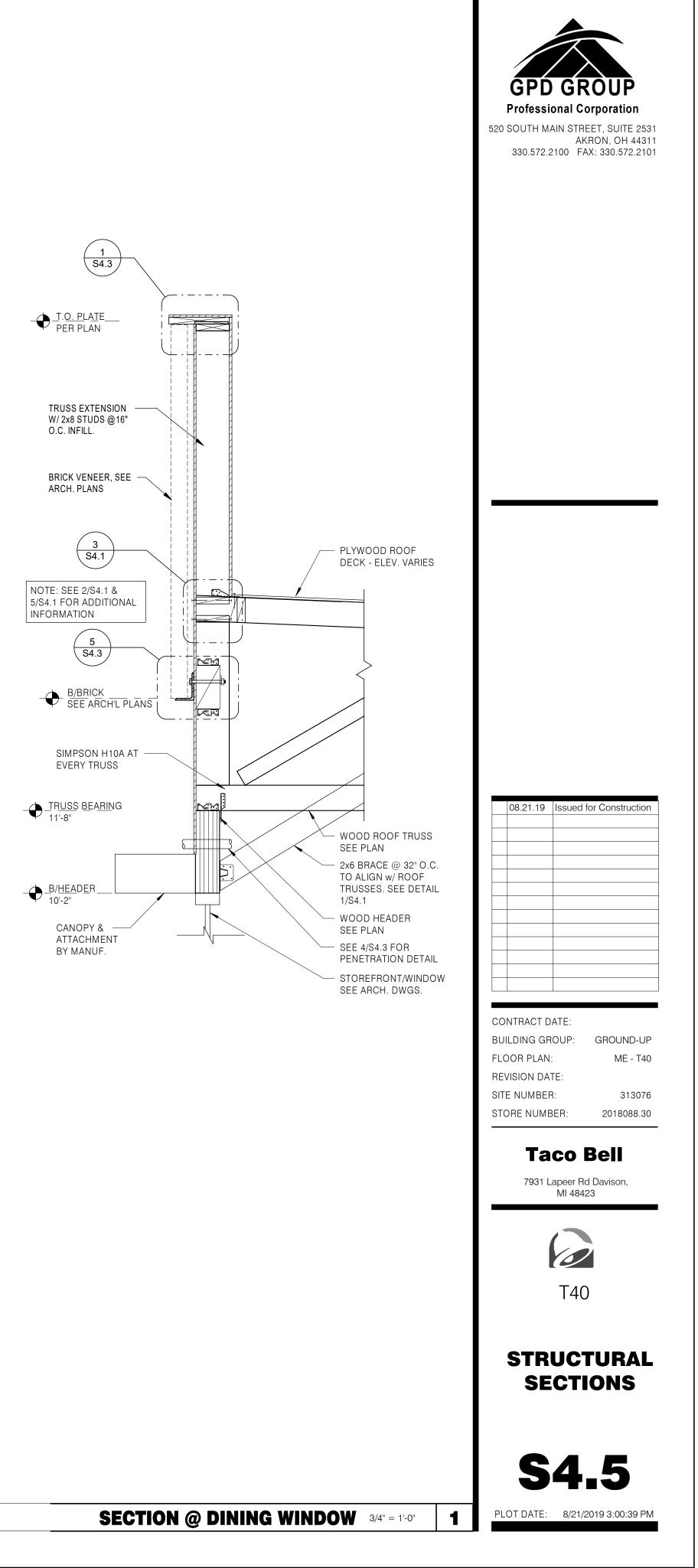


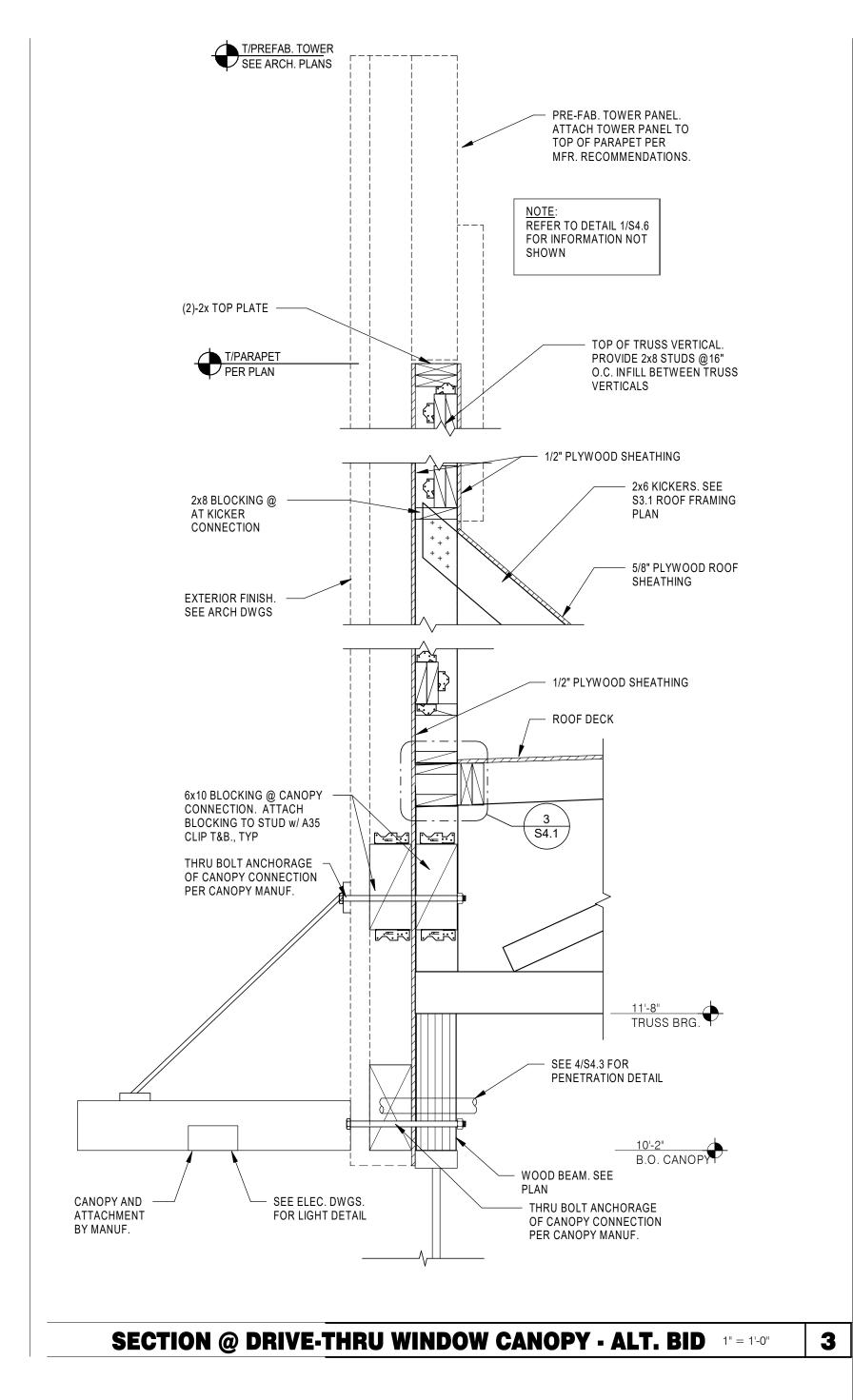


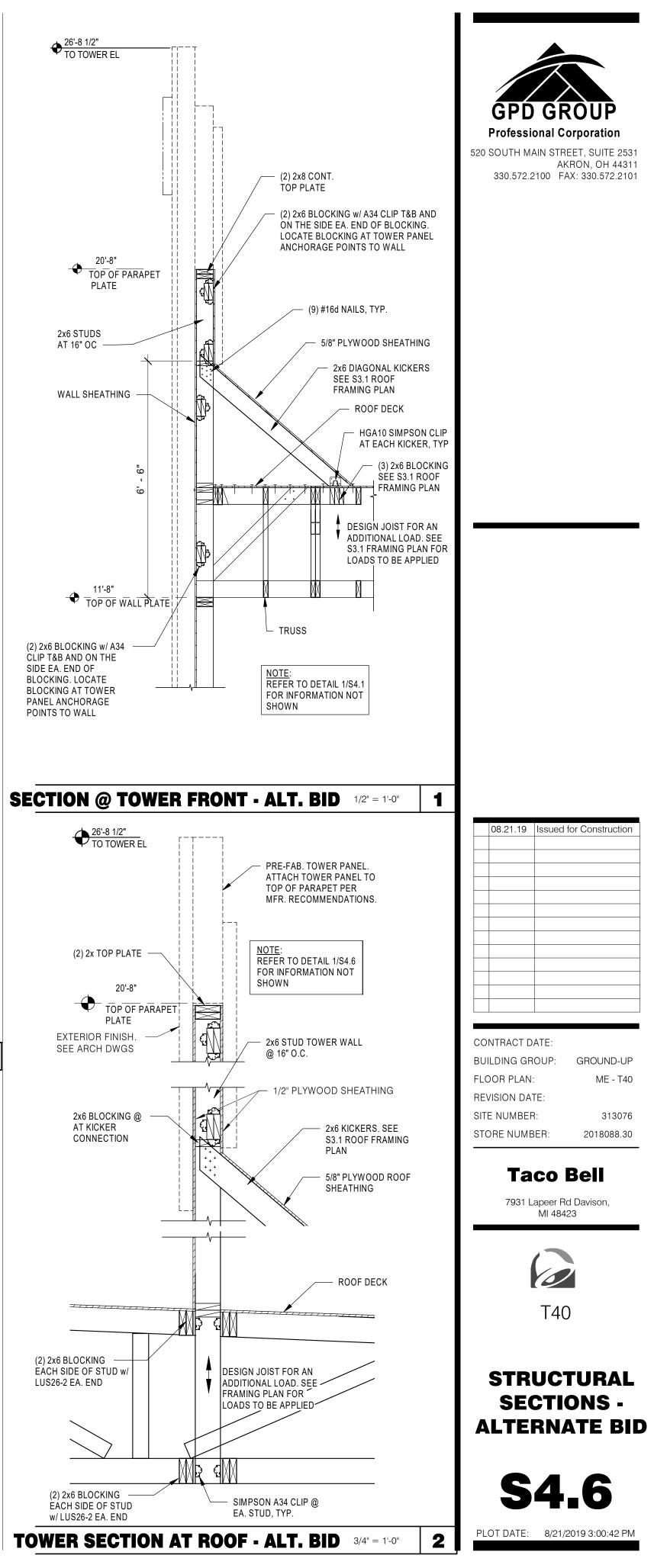


SECTION @ ENTRY DOOR 3/4" = 1'-0"

2



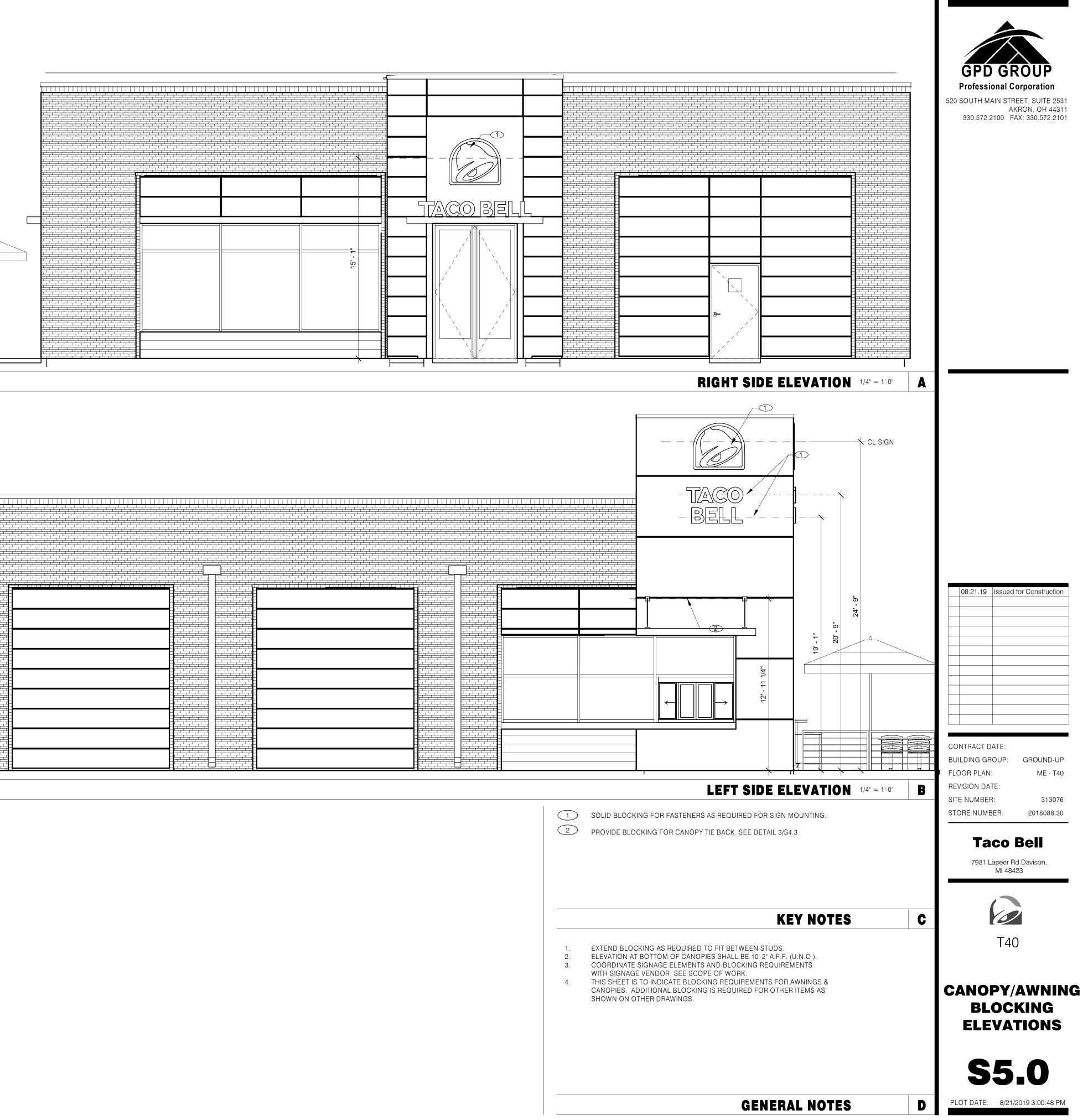


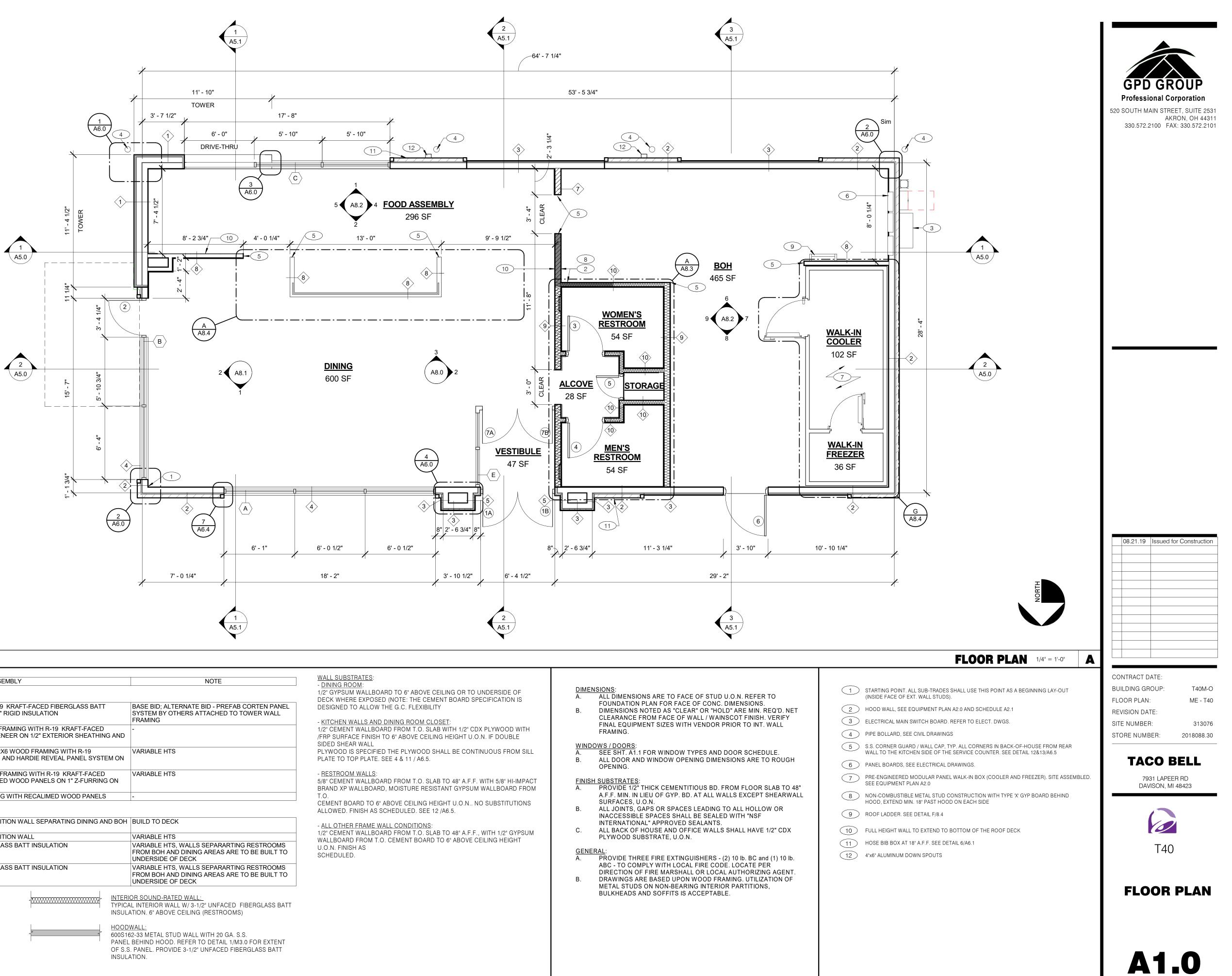




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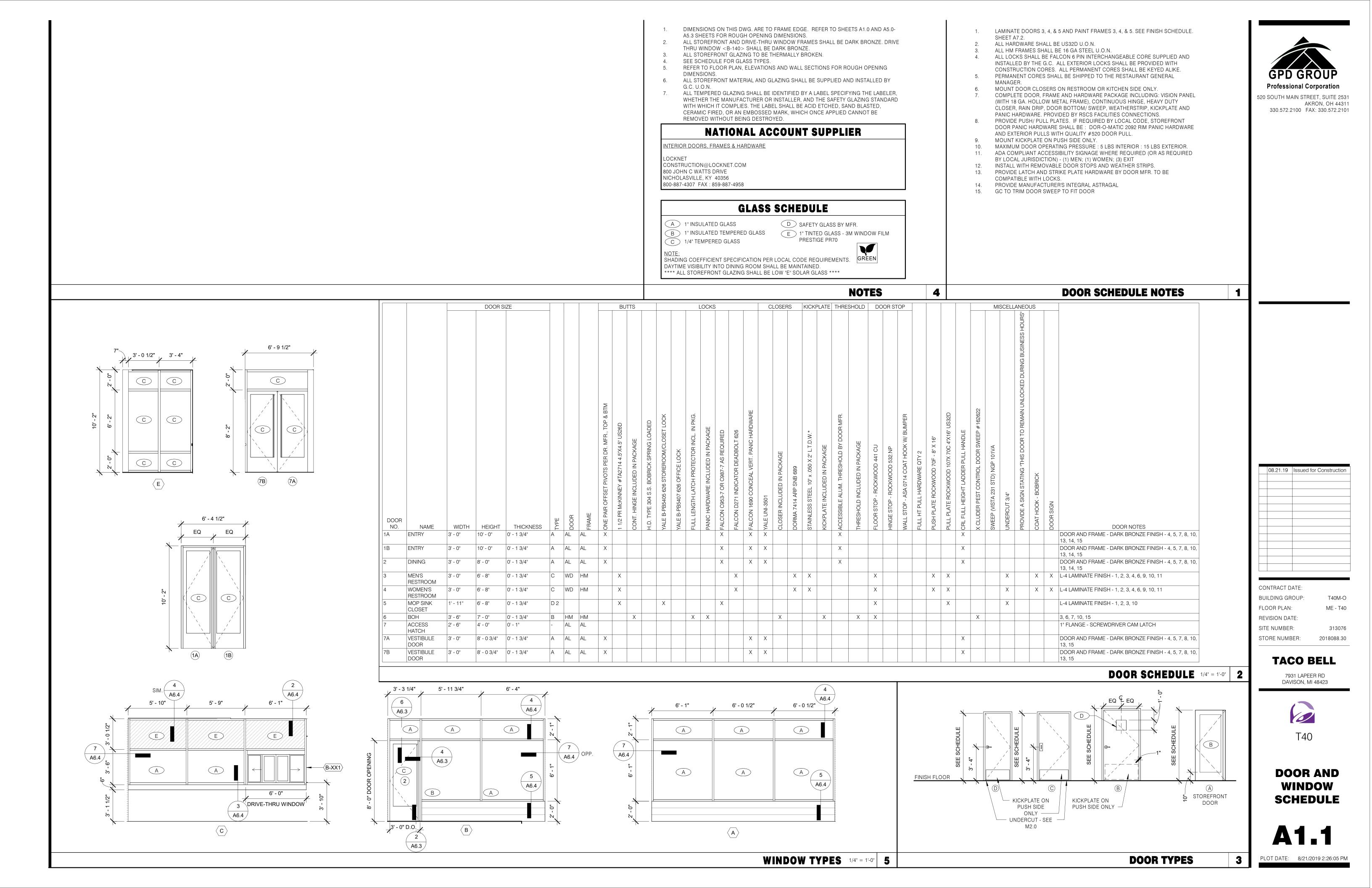
I ENGTH	HEIGHT	WALLASSEMBLY	NOTE
22110111			
22' - 0"	26' - 9"	TOWER WALL - 2X6 WOOD FRAMING WITH R-19 KRAFT-FACED FIBERGLASS BATT INSULATION AND CORTEN STEEL PANEL ON 1" RIGID INSULATION	BASE BID; ALTERNATE BID - PREFAB C SYSTEM BY OTHERS ATTACHED TO TO FRAMING
162' - 10 3/4"	20' - 8"	TYPICAL EXTERIOR BRICK WALL - 2X6 WOOD FRAMING WITH R-19 KRAFT-FACED FIBERGLASS BATT INSULATION AND BRICK VENEER ON 1/2" EXTERIOR SHEATHING AND 1" AIR SPACE	-
115' - 2 1/4"		TYPICAL EXTERIOR CEMENT PANEL WALLS - 2X6 WOOD FRAMING WITH R-19 KRAFT-FACED FIBERGLASS BATT INSULATION AND HARDIE REVEAL PANEL SYSTEM ON 1" Z-FURRING ON 1/2" EXTERIOR SHEATHING	VARIABLE HTS
41' - 1 1/2"		TYPICAL EXTERIOR WOOD WALL - 2X6 WOOD FRAMING WITH R-19 KRAFT-FACED FIBERGLASS BATT INSULATION AND RECLAIMED WOOD PANELS ON 1" Z-FURRING ON 1/2" EXTERIOR SHEATHING	VARIABLE HTS
2' - 10 3/4"	18' - 2 5/8"	EXTERIOR PORTAL WALL - 2X6 WOOD FRAMING WITH RECALIMED WOOD PANELS	-
-			1
10' - 3 1/2"	14' - 0"	TYPICAL 2X6 WOOD FRAMING INTERIOR PARTITION WALL SEPARATING DINING AND BOH AREAS	BUILD TO DECK
39' - 3 1/4"		TYPICAL 2X4 WOOD FRAMING INTERIOR PARTITION WALL	VARIABLE HTS
36' - 9 1/4"		2X6 WOOD FRAMING WITH UNFACED FIBERGLASS BATT INSULATION	VARIABLE HTS, WALLS SEPARARTING FROM BOH AND DINING AREAS ARE TO UNDERSIDE OF DECK
33' - 10"		2X4 WOOD FRAMING WITH UNFACED FIBERGLASS BATT INSULATION	VARIABLE HTS, WALLS SEPARARTING FROM BOH AND DINING AREAS ARE TO UNDERSIDE OF DECK
	2x6 WD STUDS A STRUCT. DWGS.) NSULATION U.O ADHERED AIR BA <u>YPICAL INTERIC</u> 2x4 WD STUDS A VALLS AND GYP	TYPICA ARRIER <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRIER</u> <u>ARRI</u>	2-33 METAL STUD WALL WITH 20 GA. S.S BEHIND HOOD. REFER TO DETAIL 1/M3.C . PANEL. PROVIDE 3-1/2" UNFACED FIBER
	162' - 10 3/4"         115' - 2 1/4"         41' - 1 1/2"         2' - 10 3/4"         10' - 3 1/2"         39' - 3 1/4"         36' - 9 1/4"         33' - 10"	22' - 0"       26' - 9"         162' - 10 3/4"       20' - 8"         115' - 2 1/4"       41' - 1 1/2"         41' - 1 1/2"       18' - 2 5/8"         10' - 3 1/2"       14' - 0"         39' - 3 1/4"       36' - 9 1/4"         33' - 10"       TYPICAL EXTERIONAL EXTER	22' - 0"       26' - 9"       TOWER WALL - 2X6 WOOD FRAMING WITH R-19 KRAFT-FACED FIBERGLASS BATT INSULATION AND CORTEN STEEL PANEL ON 1" RIGID INSULATION         162' - 10 3/4"       20' - 8"       TYPICAL EXTERIOR BRICK WALL - 2X6 WOOD FRAMING WITH R-19 KRAFT-FACED FIBERGLASS BATT INSULATION AND BRICK VENEER ON 1/2" EXTERIOR SHEATHING AND 1" AIR SPACE         115' - 2 1/4"       TYPICAL EXTERIOR CEMENT PANEL WALLS - 2X6 WOOD FRAMING WITH R-19 KRAFT-FACED FIBERGLASS BATT INSULATION AND HARDIE REVEAL PANEL SYSTEM ON 1" Z-FURRING ON 1/2" EXTERIOR SHEATHING         41' - 1 1/2"       TYPICAL EXTERIOR WOOD WALL - 2X6 WOOD FRAMING WITH R-19 KRAFT-FACED FIBERGLASS BATT INSULATION AND RECLAIMED WOOD PANELS ON 1" Z-FURRING ON 1/2" EXTERIOR SHEATHING         2' - 10 3/4"       18' - 2 5/8"       EXTERIOR PORTAL WALL - 2X6 WOOD FRAMING WITH RECALIMED WOOD PANELS         10' - 3 1/2"       14' - 0"       TYPICAL 2X6 WOOD FRAMING INTERIOR PARTITION WALL SEPARATING DINING AND BOH AREAS         39' - 3 1/4"       1YPICAL 2X4 WOOD FRAMING INTERIOR PARTITION WALL       SEPARATING DINING AND BOH AREAS         33' - 10"       2X4 WOOD FRAMING WITH UNFACED FIBERGLASS BATT INSULATION       INTERIOR WALL:         2x6 WD STUDS AT 16' O. C. W/ SHEATHING AS SCHEDULED (SEE STRUCT. DWGS.) AND R-19 KRAFT-FACED FIBERGLASS BATT INSULATION       INTERIOR WALL:         1YPICAL EXTERIOR WALL:       1YPICAL INTERIOR WALL:       HOOD FOR STUDE SLOP OF START FOR THE PORTAL START FOR THE PORTAL START FOR THE PORTAL START FOR THE PORTAL START FOR THE PO

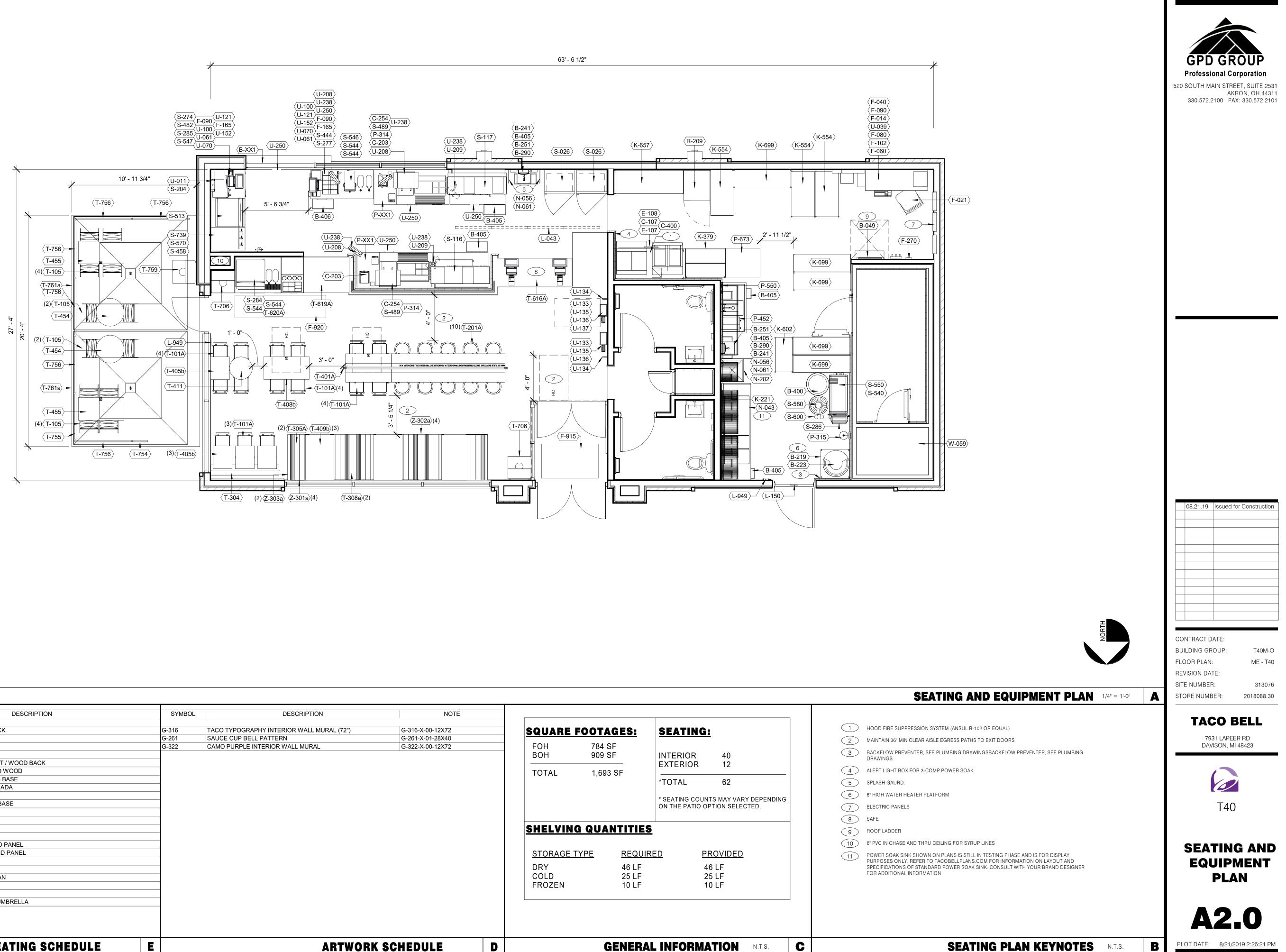
FLOOR PLAN NOTES N.T.S.

FLOOR PLAN KEYNOTES N.T.S.

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PLOT DATE: 8/21/2019 2:26:00 PM



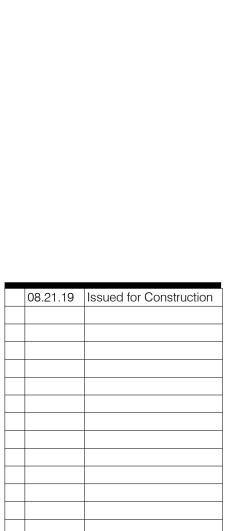


SYMBOL	COUNT	DESCRIPTION	SYMBOL	DESCRIPTION	NOTE				
101A	15	CHAIR - WOOD SEAT/ METAL BACK	G-316	TACO TYPOGRAPHY INTERIOR WALL MURAL (72")	G-316-X-00-12X72	SQU	ARE FOOTAGES	: SE	ATING:
201A	10	29" BARREL BARSTOOL	G-261	SAUCE CUP BELL PATTERN	G-261-X-01-28X40			· <u>-</u>	
04	1	6' BENCH	G-322	CAMO PURPLE INTERIOR WALL MURAL	G-322-X-00-12X72	FOF	1 784 SF		
)5A	2	BANQUETTE SEATS				BOH	1 909 SF	INT	ERIOR 40
08a	2	48" DOUBLE BOOTH - WOOD SEAT / WOOD BACK							ERIOR 12
01A	1	14" HUB TABLE ADA - RECLAIMED WOOD				тот	AL 1,693 SF	2/11	
05b	4	24" X 20" TABLE TOP AND CROSS BASE					1,000 01	*TO	TAL 62
08b	1	24" X 48" TABLE TOP AND BASE - ADA							
.09b	3	30" X 48" TABLE TOP AND BASE						* 0 - 1	ATING COUNTS MAY VARY DEPENDING
11	1	24" DIA TABLE TOP AND CROSS BASE							THE PATIO OPTION SELECTED.
16A	1	POS COUNTER BY IDX							
19A	1	HAND-OFF PLAN 48"							
20A	1	SAUCE AND SODA COUNTER				SHE	LVING QUANTI	IES	
06	2	SINGLE TRASH RECEPTACLE				<u> </u>		<u></u>	
)1a	4	SINGLE REVERSIBLE BOOTH END PANEL							
)2a	4	DOUBLE REVERSIBLE BOOTH END PANEL				STC	RAGE TYPE RE	<u>QUIRED</u>	PROVIDED
)3a	2	BACK PANEL							
05	12	EXTERIOR ALUMINUM CHAIR				DR	_		46 LF
54	2	INTERLACE DINING TABLE BY KIAN				COL			25 LF
155	2	RECTANGULAR DINING TABLE				FRC	DZEN 10	LF	10 LF
'59	1	SINGLE TRASH RECEPTACLE							
761a	2	TUCCI 10x10 BAY MASTER MAX UMBRELLA							

SEATING PLAN KEYNOTES N.T.S.

PLOT DATE: 8/21/2019 2:26:21 PM

			EG	QUIP	MENT SCHEDULE						EQ	UIPMENT	SCHEDULE		
Type Mark	G.C. Ir	nstall Count	Description	Gas	Elec Manufacturer	Plumb	Comments	Туре Ма	ark G.C. Ins	tall Count	Description	Gas Elec	Manufacturer	Plumb	Comments
<b>B</b> CONTRA	CTOR B	BUILDING ELI	MENTS					F OFFIC	E/EMPLOYE	E/MUSIC/MIS	SC.				
B-049	X	1	ROOF LADDER		PRECISION #FL184	1	5'-4" W/ 8" EXTENSION	F-014	X		FILE CABINET (2 DRAWER HIGH) 18"		HON #582LL		IN OFFICE AREA. SEE SHEET A8.2
B-050	Х	1	ROOF HATCH		PRECISION LADDER	2'	-6" X 3'-0" CLEAR OPENING				x 36" x 27"H				
					#PH-G2'-6"X3'-0"			F-021	X	1	CHAIR - OFFICE		HON #4609AB10		IN OFFICE AREA. SEE SHEET A8.2
B-160	X	1	FLY FAN		Black,Mars #LVP25-1UA,25",1	/6		F-022	X	1	LICENSE FRAME 8" X 10" (BLACK)		CREATIVE PALETTE TB30		
					HP,115V Lopro Series			F-030	X	1	COAT HOOKS		ISS #HOOK246R2Y		
B-219	X	1	WATER HEATER DUNNAGE RACK	X	NEW AGE INDUSTRIAL COR INC #98147	P., X		F-040 F-050			OFFICE COMPUTER CREDIT CARD SATELLITE ROUTER	X	POS PROVIDED YUM		IN OFFICE AREA. SEE SHEET A8.2
B-223	X	1	GAS WATER HEATER 98% HIGH EFFICIENCY 120 MBH, 60 GALLON		A. O. SMITH BTH 120 60 CYCLONE HE						JUNCTION				
D 044	V	4						F-060			MONITOR - OFFICE		YUM		
B-241	X	4	SOAP DISPENSER (WALL MOUNT)		KAY 3741		ROVIDED BY ECOLAB	F-080			OFFICE	X	POS PROVIDED		
B-251	X	4	SANITIZER DISPENSER (WALL MOUNT)		KAY 3741	P	ROVIDED BY ECOLAB	F-090			PRINTER/COPIER/FAX/SCANNER UPS (UN-INTERUPTABLE POWER		POS PROVIDED		
B-253	Х	2	PAPER TOWEL DISPENSER / TRASH	1	BOBRICK #B-3944			1-030			SUPPLY)				
D.005			12 GALLON					F-102		1	MONEY COUNTER	X	TELLER MATE #TIXR3000		
B-265	X	2	MIRROR, 18" x 36"		BOBRICK #B-165-1836			F-165		4	DROP SAFE		PERMA VAULT #PRO-10		
B-275	X	2	TOILET PAPER DISPENSER		BOBRICK #B-2890			F-174			SAFE WITH TOUCH SCREEN		BRINKS TIDEL SENTINAL SIDE		
B-290	X	2	PAPER TOWEL DISPENSER		BOBRICK #B-262						CONTROLS		VAULT		
B-300	X	2	GRAB BAR 1-1/2" DIA. x 36" S.S. FIN.		BOBRICK #B6806X36			F-211	X		CLOCK		B&B SYSTEMS #02100100		
B-305	X	2	GRAB BAR 1-1/2" DIA. x 42" S.S. FIN.		BOBRICK #B6806X42			F-262			EMPLOYEE LOCKERS - 6 COUNT		12 X 15 X 72 GREY		
B-310	X	2	GRAB BAR VERTICAL 1-1/2" DIA. x 18" S.S. FIN.		BOBRICK #B6806X18			F-270	X	1	FIRST AID KIT		PROSTAT FIRST AID LLC #2617		IN OFFICE AREA. SEE SHEET A8.2
B-400	X	1	WASTE BASKET - 32 GALLON		RUBBERMAID #2632 (GREY)			F-915		1	FLOOR MAT 3' X 5'		Apache Mills Absorba mat #SP1010-PP		
B-405	X	6	WASTE BASKET		RUBBERMAID SLIM JIM #354			F-920		1	FLOOR MAT 3' X 8'				
					(GREY)			INT-ART		1					
B-406	Х	1	WASTE BASKET		RUBBERMAID 28 QT #2956 (BLACK)			G-322			CAMO PURPLE INTERIOR WALL				G-322-X-00-12X72
B-410	X	1	SANITARY NAPKIN RECEPTACLE		RUBBERMAID #6140						MURAL				
B-599	X	1	MOP SINK STATION		ISS #WST806Y				STATIONS/S						
B-XX1		1	60"W X 36"H DRIVE-THRU WINDOW		QUICKSERV / #BP-7241E-B	F	ULLY AUTOMATIC, BI-PARTING	K-210	X		PREP SINK WORKSTATION 50" TRACK		ISS #WST255E		
						C	OORS, THRU BEAM SENOR, 1/4" LEAR TEMPERED GLASS AND	K-221	X	1	3 COMP SINK WORKSTATION 96" TRACK		ISS #DS-1F		
						A	LARM SENOSRS, DARK BRONZE	K-379		1	Crispy Table,30"X42"X74,		TB,#WST1709EA		
C COOKIN	G EQUIF	PMENT						K-554			48X24 5-TIER RACK SHELVING		ISS #SU244875Y		
C-079		1	FILTER QUICK GAS FRYER	X	X FRY MASTER FQG3OU			K-602			36X18 5-TIER RACK SHELVING		ISS #WST238Y		
C-107	X	1	RETHERMALIZER	X	X PITCO #TB-SRTG14-2	X		K-657			72X24 5-TIER RACK SHELVING		ISS #SU247285Y		
C-203	X	2	SPLIT LID CLAM SHELL TOASTER		X DOUGHPRO #SL15775TBA (STAR OPTIONAL)	P	OWERED BY PRODUCTION LINE	K-699			60X18 5-TIER RACK SHELVING		ISS #SU186075Y		
C-254	X	2	CHEESE MELTER (SINGLE)		X A. J. ANTUNES # CM-100	XP	OWERED BY PRODUCTION LINE	L LIGHT	ING/SIGNAG	E/MENUBOA	RDS				
C-400	X	1	COOK TIMER		X FAST #TBZAP12		OR THE RETHERMALIZER	L-043		1	DIGITAL MENU BOARDS	X			
		) S/FIRE SUPI						L-132			SIGN- TACO BELL RESTROOM				
E-107	X	1	STRATOVENT 6'-3" EXHAUST HOOD		X STRATOVENT MODEL #	н	OOD IS PRE-PIPED FOR ANSUL				WOMEN WITH BRAILLE 10"X6.5"				
					TBG365OSVBD6FT3IN		UPPRESSION	L-133			SIGN- TACO BELL RESTROOM MEN WITH BRAILLE 10"X6.5"				
E-108	X	1	STRATOVENT 106"H X 111" L BACK SPLASH		STRATOVENT MODEL #BACKSPLASH106X111FLA			L-150	X	1	SECURITY DOOR DANGER SIGN		ADVERCO#ADVCUSTOM		ORDERED DIRECT FROM YRFS
F 070	V							L-949	X	3	NO SMOKING SIGN		VOLLRATH #4513		
E-272	X	1	TIMER BRACKET		λ										



GPD GROUP Professional Corporation

520 SOUTH MAIN STREET, SUITE 2531 AKRON, OH 44311 330.572.2100 FAX: 330.572.2101

CONTRACT DATE:BUILDING GROUP:T40M-OFLOOR PLAN:ME - T40REVISION DATE:SITE NUMBER:SITE NUMBER:313076STORE NUMBER:2018088.30











	EQUI	PMENT S	CHEDULE CONT.							EQU	IPMEN	IT SCH	EDULE CONT.		
Type Mark G.C. Install Count	Description	Gas Elec	Manufacturer	Plumb	C	comments		lark G.C. I	nstall Co	•		Elec	Manufacturer	Plum	b Comments
11							S-274	X	1	61"(W) X 36"(D) DRIVE-THRU DRINK		S	PG WST1242YA		
B-XX2 1	Access Door - Non-rated - Insulated - Aluminum Frame		Babcock-Davis		1" FLANGE - SC LATCH	REWDRIVER CAM	S-277	X	1	PICK-UP DRIVE-THRU COUNTER (30 x 42") ISS#WST1344Y	"	18	SS #WST 1344Y		
T-754 1	16" RAILING						S-284		1	BEVERAGE DISPENSER - SELF-SERVE		C	ORNELIUS 611057625		
T-755     1       T-756     6	16" RAILING 16" RAILING						S-285		1	BEVERAGE DISPENSER - DRIVE		X S	ERVEND NGF-250QD	X	OR CORNELIUS IDC255 PROGATE
N SINKS/DISHWASHERS	GEN IV 102" LX31" D POWERSOAK (F		#PS6750			CLICK & CLEAN	S-286		1	WATER FILTER SYSTEM		X S	HURFLO #WB6-M3-22-003	X	(BY PEPSI) FRANCHISEES CAN USE SELECTO
N-043	TO L)		#F 307 30		SYSTEM & (2) T OPTIONAL - N-7	& SB-2466 FAUCETS 706, N-075, N-076,	S-349		1	PICK-UP DRIVE-THRU COUNTER (30 x 42")	"	15	SS #WST 1344Y		#TB5/620-5
N-061 X 2	HAND SINK WITH FAUCET		AERO #HSK-A	X	N-077, N-078		S-381	X	1	CO2 CARBON DIOXIDE		X A	MPROBE CO2-200		
N-071 X 1	MOP SINK FAUCET		T&S #B-2465	X			S-444		1	SENSOR/WARNING NAPKIN DISPENSER		0	CA TISSUE #5555100		
N-130 X 1	1 COMP SINK FAUCET		T&S FAUCET B-2465	X			S-444 S-458	X	1	24"(W) X 36"(D) FRUTISTA TABLE			PG WST1343Y		
N-146 X 2	FAUCET (RESTROOMS)		SLOAN # SF-2350		FRANCHISE OP B-2460	TION N-164 T&S	S-482	X	1	CUP DISPENSER			.J. ANTUNES #DACS60		W/ ANGLED MOUNTING BRCKET
N-202 X 1 N-698 X 1	24" X 24" MOP SINK 1 COMP PREP SINK 53"W X 27"D X 35	5	AERO 3MP-2121-6 AERO #2F1211617LR	X X			S-489		2	DIGITAL SCALE		E	DLUND DS-10		OMNITEAM CDB-DTA FRANCHISEES CAN USE HOSHISAK KMS-1230
	1/2"H						S-513		1	ICE MAKER (PLACED ON TOP OF		N	IANITOWOC #1Y-1474C		
P FOOD PREPARATION P-314 X 2	WATER PRESSURE REGULATOR KIT	-	A.J. AUTUNES & CO. #7000314							DRINK MACHINES)					
P-315 X 1	REVERSE OSMOSIS SYSTEM			XF	REQUIRES FLO	OR SINK	S-540 S-544		1	PEPSI BOOSTER TANK TEA URNS		P	UNN TDO-N-3.5		
P-452 2	HOT WATER SYSTEM		BUNN-MACHINE #43600.0014				S-544	X	4	ICED TEA BREWER			ETLEY TB3Q	X	
P-550         X         1           P-673         1	KNIFE RACK WORKTABLE, 36" x 30"		EDLUND #KR-699 ISS #WST908YA				S-547	X	1	BUNN POD BREWER		X N	1Y CAFE AP AUTOPOD # 2300.0008		
P-XX1 2	V-LINE				1 VLINE (L-R) &	1 V-LINE (R-L)	S-550		1	BAG-IN-BOX SYRUP RACK		С	ORNELIUS/REMCOR	X	FLO-3REG-2CRB (BY PEPSI)
PATIO T-105 12	EXTERIOR ALUMINUM CHAIR				MEDIUM		S-570		1	CARBONATOR			NB12B8P ORNELIUS/REMCOR	X	SHELF MOUNTED BELOW EACH
T-454 2	INTERLACE DINING TABLE BY KIAN				MEDIUM										DRINK (BY PEPSI)
T-455 2	RECTANGULAR DINING TABLE				MEDIUM		S-580		1	CO2 (BULK) TANK			IVE #11805373		
T-759     1       T-761a     2	SINGLE TRASH RECEPTACLE TUCCI 10x10 BAY MASTER MAX		FURNITURE DESIGN STUDIOS		MEDIUM MEDIUM		S-600	X	2	BUNDLED SYRUP LINES			ORNELIUS/REMCOR TUBE	X	
	UMBRELLA						S-739	X	1	FROZEN BEVERAGE DISPENSER		X F	BD #1273610021	X	
R REFRIGERATION							-	JRITY/COM	M./FIRE PI			· · · ·			
R-209 1 S SERVING/DRIVE-THRU	FULL HT FREEZER (RH HINGED)	X	DELFIELD #E30601008	X			U-011		1	HME-HEADSET SYSTEM BASE STATION - D/T COMM. SYSTEM			ME-HEADSET YSTEM,FIVE,#C40000-5-HS3-T		
S-026 X 2	HEAT CABINET - FULL HEIGHT - (1)	X	CRESCOR #H137S27D1TB				U-039		1	CCTV DVR & MONITOR		B	IARTCO - NUVICO DVR		12 Digital Camera For Envysion
S-116 1	WARMER EVO TACO TOWER TB		EVOL208U1				U-052	X	1	SECURITY SYSTEM			DT #3BCZTB		
	208V - L TO R UNIT						U-061		2	CREDIT CARD MACHINE		X			
S-117 1	WARMER EVO TACO TOWER TB		EVOR208U1	N	VV		U-070		2	RECEIPT PRINTER			BM, NCR & PAR		
S-204 X 2	208V - L TO R UNIT HME Zoom Timer	×	HME SYS50 ZOOM timer				U-100 U-121		4	POS/ORDER ENTRY TERMINAL CASH DRAWER BRACKETS			3M, NCR & PAR 3M, NCR & PAR		
			#C12061TB				U-132		2	KIOSK RAIL		11			1 PER KIOSK TABLET
S-254 1	CONDIMENT RACK		PRONTO PRODUCTS				U-133		2	MOUNTING PLATE FOR WALL					1 PER KIOSK TABLET
			#CHPWO446				U-134		2	BLADE SIGN					FOR BLADE SIGN COUNT REFER TO DIGITAL PLAYBOOK. PLAYBOOK CA BE DOWNLOADED FROM TACOBELLPLANS.COM
							U-135		2	KIOSK TABLET		X			PROVIDE DEDICATED CIRCUIT AND (2) TWO CAT5 CABLES PER TABLET
							U-136 U-137		2	VERIFONE (CREDIT CARD MACHINE STORM AUDIO - NAV KEYPAD	)	X X			1 PER KIOSK TABLET 1 PER STORE. FOR CALIFORNIA STORES 50% OF TOTAL NUMBER C SCREENS
							U-152		3	CASH DRAWER		IE	BM, NCR & PAR		
							U-208		3	V-LINE MONITOR SUPPORT ARM					
							U-209 U-237		2	EVO MONITOR SUPPORT ARM KITCHEN MONITOR		IF	3M, NCR & PAR		
							U-238		5	KITCHEN MONITOR			BM, NCR & PAR BM, NCR & PAR		EQUIPMENT MOUNTED WITH V-LINI AND EVO ARM
							U-250		6	BUMP BAR		IE	3M, NCR & PAR		WITH MOUNTING PLATE
							\\\\\\\\	K-IN COOLI							



08.21.19 Issued for Construction

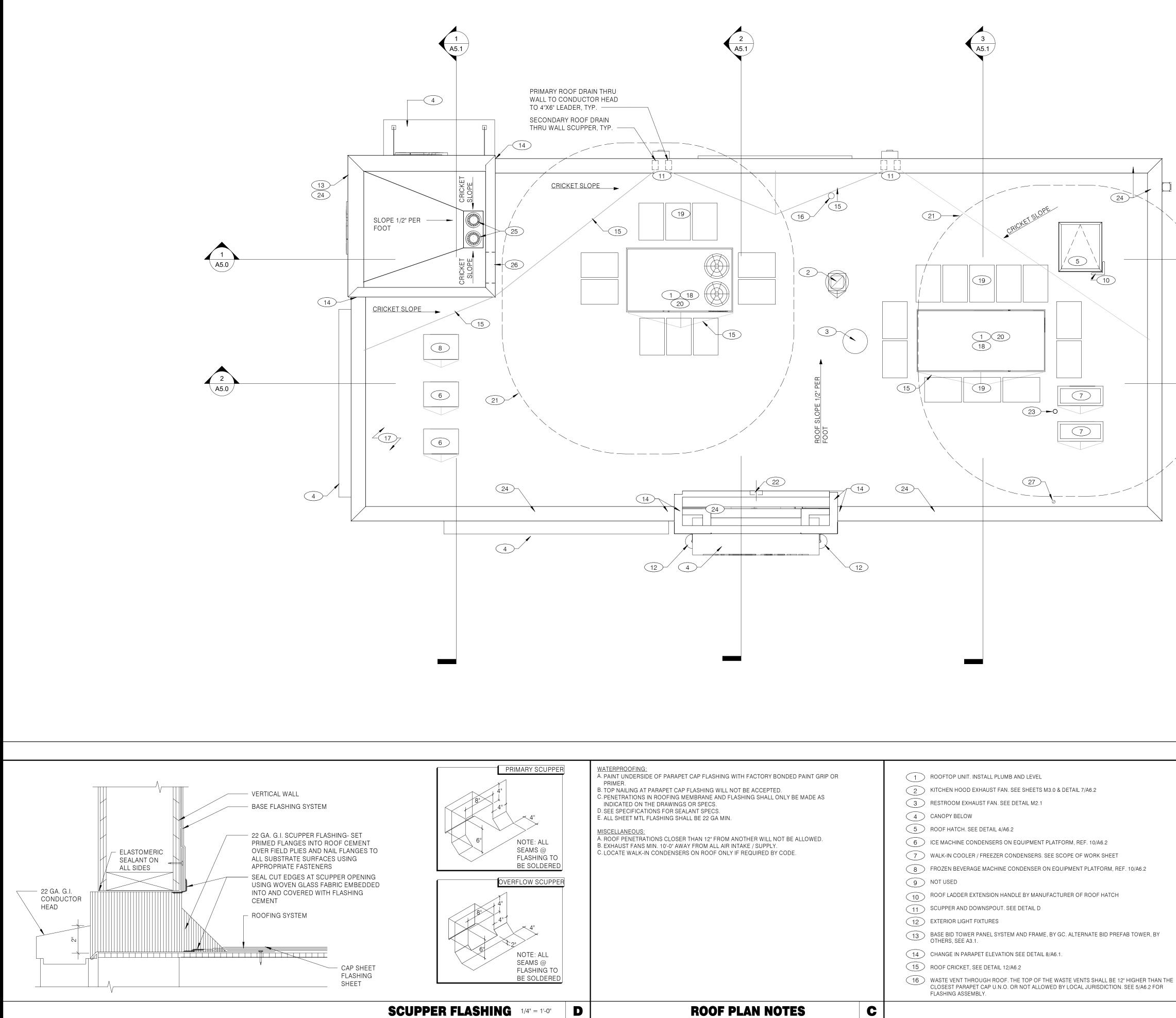
**GPD GROUP** Professional Corporation

520 SOUTH MAIN STREET, SUITE 2531 AKRON, OH 44311 330.572.2100 FAX: 330.572.2101

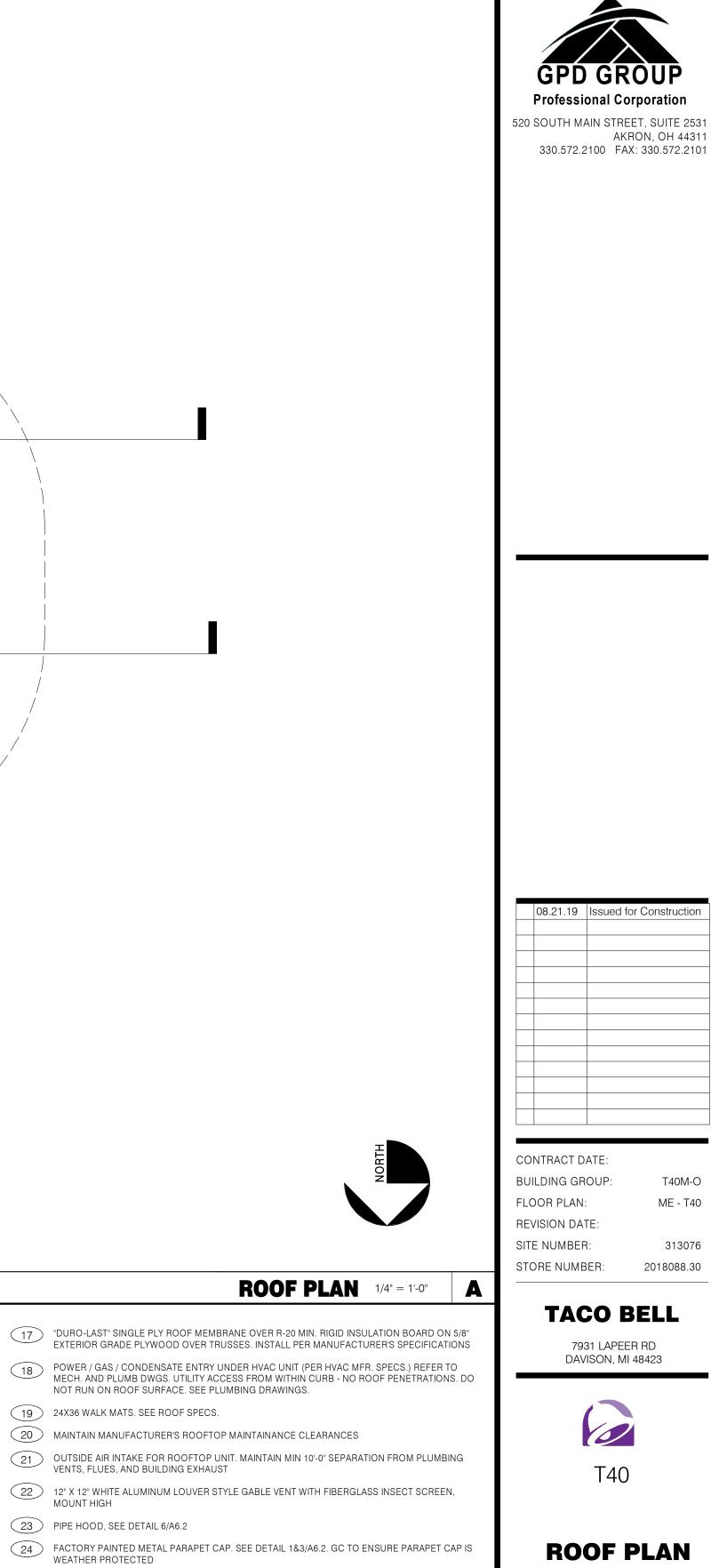








	<ul> <li>WATERPROOFING:</li> <li>A. PAINT UNDERSIDE OF PARAPET CAP FLASHING WITH FACTORY BONDED PAINT GRIP OR PRIMER.</li> <li>B. TOP NAILING AT PARAPET CAP FLASHING WILL NOT BE ACCEPTED.</li> <li>C. PENETRATIONS IN ROOFING MEMBRANE AND FLASHING SHALL ONLY BE MADE AS INDICATED ON THE DRAWINGS OR SPECS.</li> <li>D. SEE SPECIFICATIONS FOR SEALANT SPECS.</li> <li>E. ALL SHEET MTL FLASHING SHALL BE 22 GA MIN.</li> <li>MISCELLANEOUS:</li> <li>A. ROOF PENETRATIONS CLOSER THAN 12" FROM ANOTHER WILL NOT BE ALLOWED.</li> <li>B. EXHAUST FANS MIN. 10-0" AWAY FROM ALL AIR INTAKE / SUPPLY.</li> <li>C. LOCATE WALK-IN CONDENSERS ON ROOF ONLY IF REQUIRED BY CODE.</li> </ul>	1       ROOFTOP UNIT. INSTALL PLUMB AND LEVEL         2       KITCHEN HOOD EXHAUST FAN. SEE SHEETS M3.0 & DETAIL 7/A6.2         3       RESTROOM EXHAUST FAN. SEE DETAIL M2.1         4       CANOPY BELOW         5       ROOF HATCH. SEE DETAIL 4/A6.2         6       ICE MACHINE CONDENSERS ON EQUIPMENT PLATFORM, REF. 10/A6.2         7       WALK-IN COOLER / FREEZER CONDENSERS. SEE SCOPE OF WORK SHEET         8       FROZEN BEVERAGE MACHINE CONDENSER ON EQUIPMENT PLATFORM, REF. 10/A6.2         9       NOT USED         10       ROOF LADDER EXTENSION HANDLE BY MANUFACTURER OF ROOF HATCH         11       SCUPPER AND DOWNSPOUT. SEE DETAIL D         12       EXTERIOR LIGHT FIXTURES         13       BASE BID TOWER PANEL SYSTEM AND FRAME, BY GC. ALTERNATE BID PREFAB TOWER, BY OTHERS, SEE A3.1.         14       CHANGE IN PARAPET ELEVATION SEE DETAIL 8/A6.1.         15       ROOF CRICKET, SEE DETAIL 12/A6.2         16       WASTE VENT THROUGH ROOF. THE TOP OF THE WASTE VENTS SHALL BE 12" HIGHER THAN THE CLOSEST PARAPET CAP U.N.O. OR NOT ALLOWED BY LOCAL JURISDICTION. SEE 5/A6.2 FOR FLASHING ASSEMBLY.
D	ROOF PLAN NOTES C	

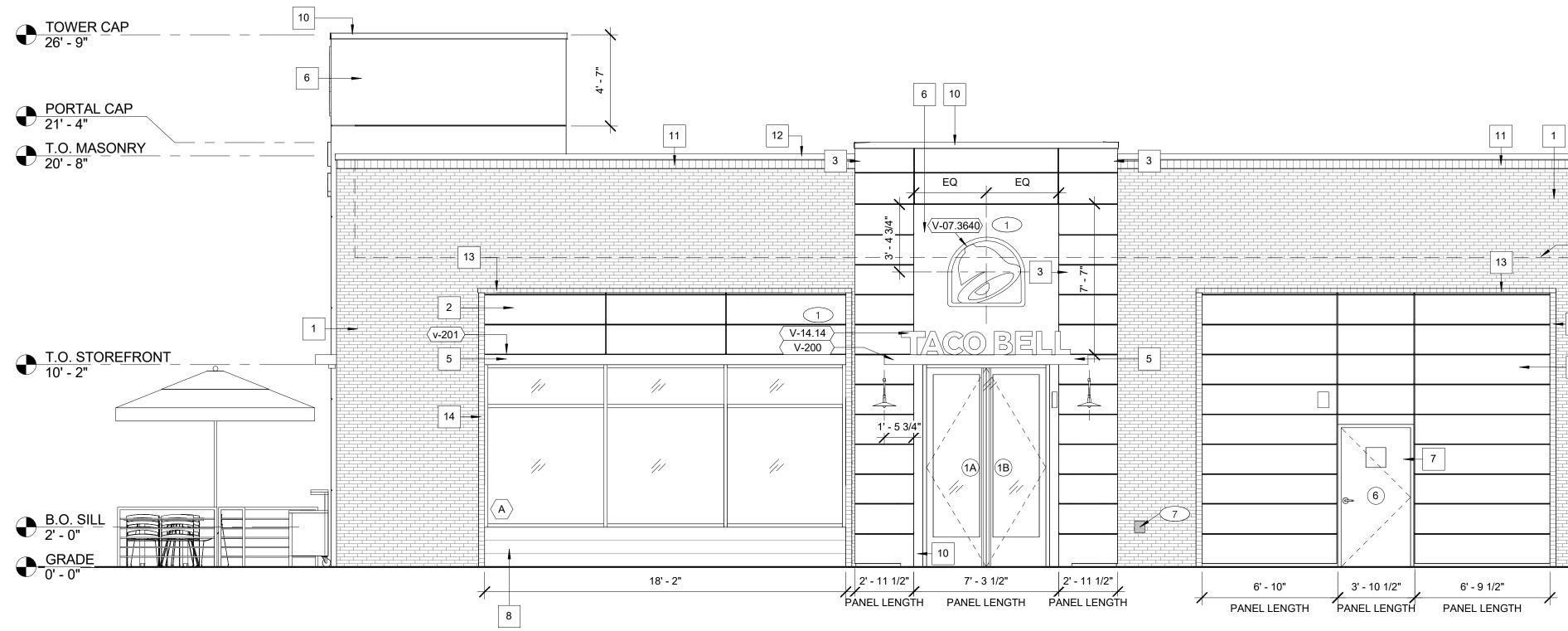


- 25 ROOF DRAIN AND OVERFLOW. ROUTE PIPE THROUGH TOWER ATTIC AND OUTLET ONTO MAIN ROOF.
- 26 2'-6" X 5'-0" ACCESS HATCH WITH SCREWDRIVER CAM LOCK IN OVERBUILD WALL.
- (27) WATER HEATER VENT. SEE MECHANICAL.

**ROOF PLAN KEYNOTES** В

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**A3.0** 



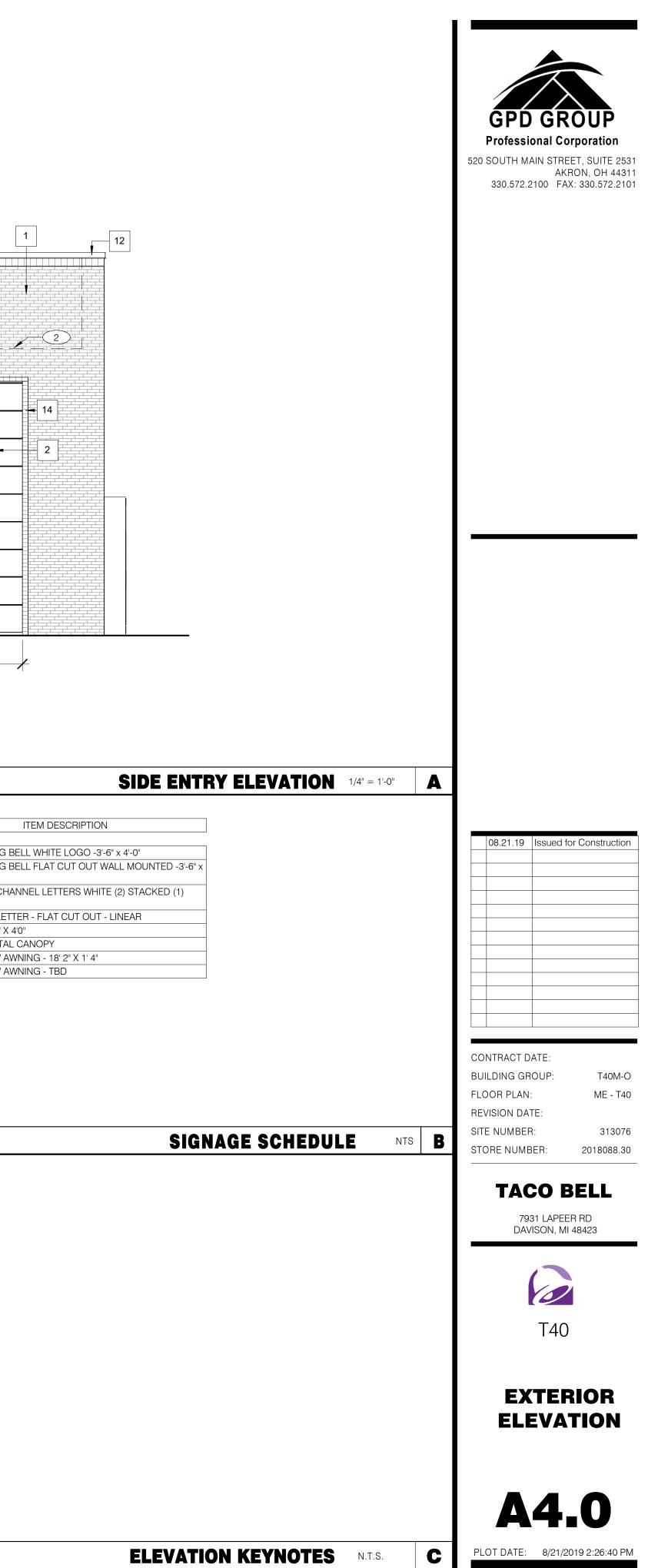
				EXTERIOR FINISH SCHEDULE				
						ALTERN	ATE FINISH INFOR	MATION
SYMBOL	AREA	AREA	MANUFACTURER	MATERIAL SPEC	COLOR	MFR.	MATERIAL SPEC.	COLOR
1	BRICK VENEER	1992 SF	INTERSTATE	STANDARD BRICK - 3-5/8"W X 2-1/4"H X 8"L	RANDOM MIX, 30% PLATINUM / 70% PEWTER			
2	EXTERIOR FIBER CEMENT PANELS	689 SF	JAMES HARDIE	REVEAL PANEL SYSTEM	PAINT SW7048 URBANE BRONZE	NICHIHA	ILLUMINATION	PAINTED SW7048 URBANE BRONZE
3	EXTERIOR FIBER CEMENT PANELS	188 SF	JAMES HARDIE	REVEAL PANEL SYSTEM	PAINT SW7048 URBANE BRONZE	NICHIHA	ILLUMINATION	PAINTED SW7048 URBANE BRONZE
4	STOREFRONT	133 SF	OLD CASTLE	SERIES 500 - WIDE STILE FOR WINDOWS AND SERIES 500 - WIDE STILE FOR DOORS	DARK BRONZE	N/A	N/A	N/A
5	METAL CANOPIES	208 SF	BY OTHERS	-	DRYLAC POWDER COATING 038/60080 STATUARY BRONZE	N/A	N/A	N/A
6	TOWER AND PORTAL ACCENT	827 SF	CORTEN	STEEL FLAT SHEETS	STANDARD	N/A	N/A	N/A
7	EXTERIOR HOLLOW METAL DOOR	81 SF	-	-	PAINT SW7048 URBANE BRONZE	N/A	N/A	N/A
8	LOCAL RECLAIMED WOOD	166 SF	BY GC	BARNWOOD	AS-IS/ GRAY	N/A	N/A	N/A
9	DOWNSPOUT	69 SF	-	-	PAINT SW7045 INTELLECTUAL GRAY	N/A	N/A	N/A
10	EXTERIOR METAL TRIM - ENTRY	13 SF	AEP SPAN	TBD				

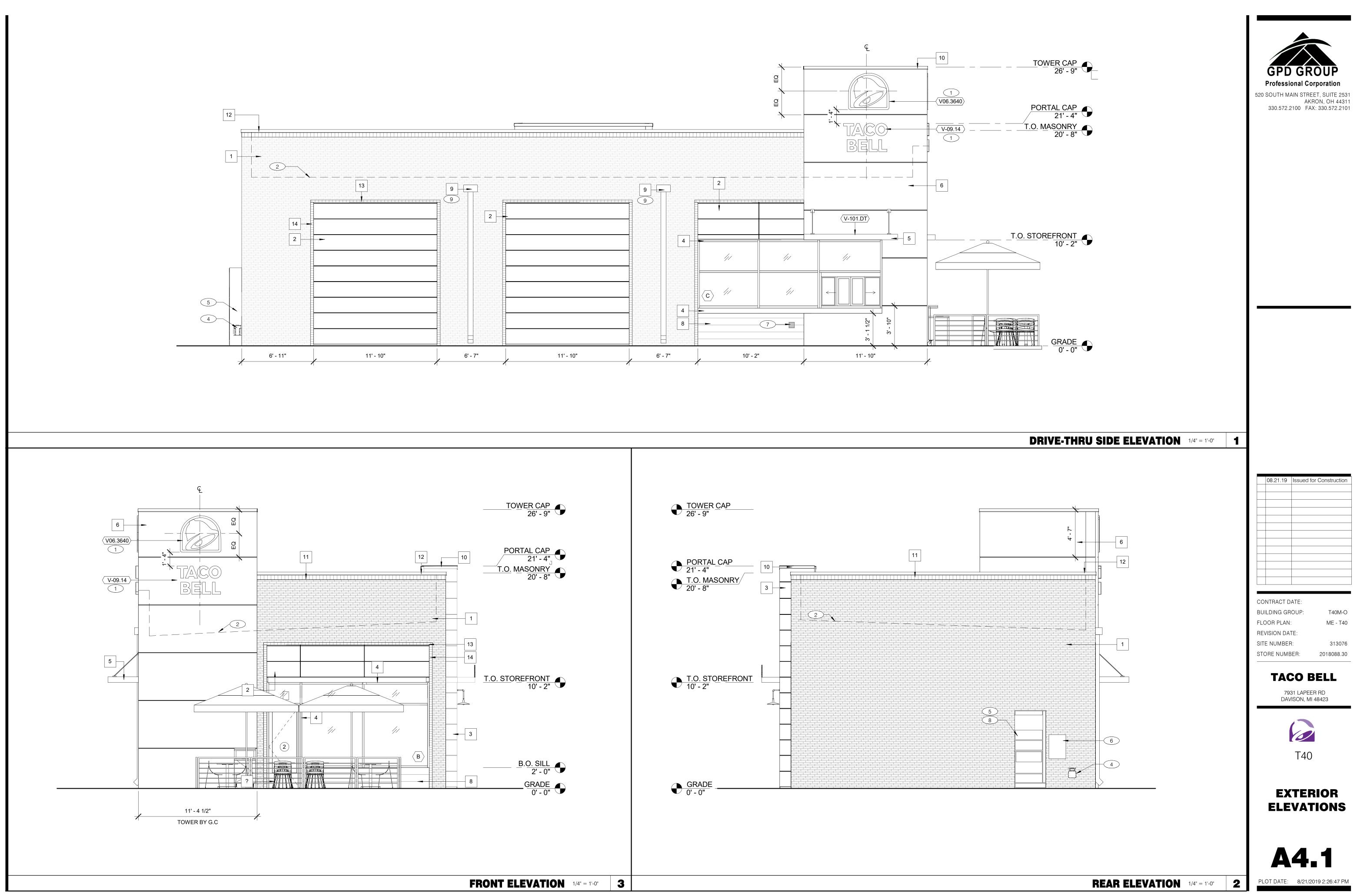
EXTERIOR FINISHES IN LF									
SYMBOL	AREA	LENGTH	MANUFACTURER	COLOR	ALTERNATE MANUFACTURER				
10	EXTERIOR METAL TRIM - PORTAL CAP AND TOWER CAP	56' - 2 3/4"	AEP SPAN	PAINTED SW 7048 URBANE BRONZE					
11	BRICK VENEER SOLDIER COURSE	154' - 1 3/4"	INTERSTATE	RANDOM MIX, 30% PLATINUM / 70% PEWTER					
12	EXTERIOR METAL TRIM - PARAPET CAP	154' - 1 3/4"	AEP SPAN	VINTAGE					
13	BRICK VENEER HEADER COURSE - HALF BRICK TURNED IN 90 DEGREES	88' - 5 1/4"	INTERSTATE	RANDOM MIX, 30% PLATINUM / 70% PEWTER					
14	BRICK VENEER STACKED COURSE - CUT BRICK TURNED IN 90 DEGREES AT JAMB	151' - 7 1/4"	INTERSTATE	RANDOM MIX, 30% PLATINUM / 70% PEWTER					

	Type Mark	QTY	ITEN
MISCELLANEOUS:	<b>F</b>		
A. SEE SHT A1.1 "WINDOW TYPES" FOR WINDOW ELEVATIONS.	V06.3640	2	LARGE SWINGING BELL W
	V-07.3640	1	LARGE SWINGING BELL FL 4'-0"
<u>SEALERS (REFER TO SPECS):</u>	V-09.14	2	MEDIUM TB 14" CHANNEL
A. SEALANT AT ALL WALL AND ROOF PENETRATIONS.			LINEAR
B. SEALANT AT ALL WINDOW AND DOOR FRAMES AT HEAD AND JAMB. DO NOT SEAL SILL @ WINDOWS.	V-14.14	1	MEDIUM TB 14" LETTER - F
C. APPLY NEOPRENE GASKET (CONT.) BETWEEN BUILDING &	V-101.DT	1	DT AWNING - 9'0" X 4'0"
CANOPY.	V-200	1	ENTRANCE PORTAL CANC
"CRITICAL" DIMENSIONS:	v-201	1	DINING WINDOW AWNING
	V-202	1	DINING WINDOW AWNING
A. REQUIRED CLEAR OPENING WIDTH TO ENSURE COORDINATION WITH STANDARD SINAGE/ 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 INSTALLAION OF			
REQUIRED BLOCKING AND ELECTRICAL CONNECTIONS FOR FINAL			
APPROVED SIGNS.			
GENERAL NOTES N.T.S. D			
1 BUILDING SIGN, BY SIGN VENDOR. REQUIRES ELECTRICAL. SEE ELECTRICAL PLAN	NS		
2 DASHED LINE INDICATES ROOF LINE BEYOND.			
3 4" DIA. BOLLARD AT ALL DOWNSPOUTS.			
4 GAS METER			
5 SWITCH GEAR. PAINT TO MATCH WALL.			
6 ELECTRIC METER			
7 HOSE BIB BOX AT 18" A.F.F. SEE DETAIL 6/A6.1			
8 WALL SHALL BE FINISHED PRIOR TO INSTALLATION OF SWITCHGEAR.			
9 SCUPPER, COLLECTOR, AND VERTICAL DOWNSPOUT 6" MIN			

**EXTERIOR FINISH SCHEDULE** 

NTS E

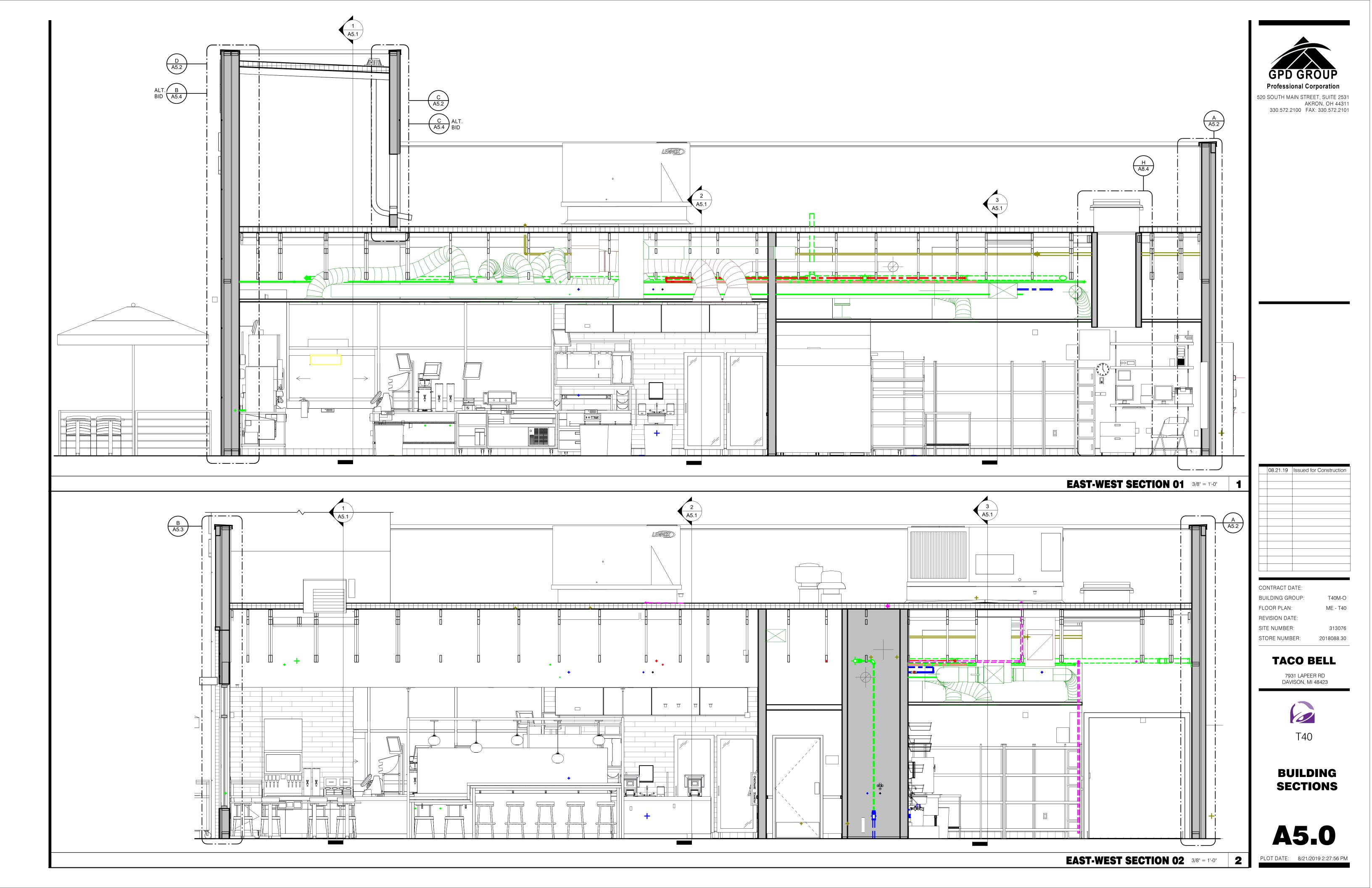


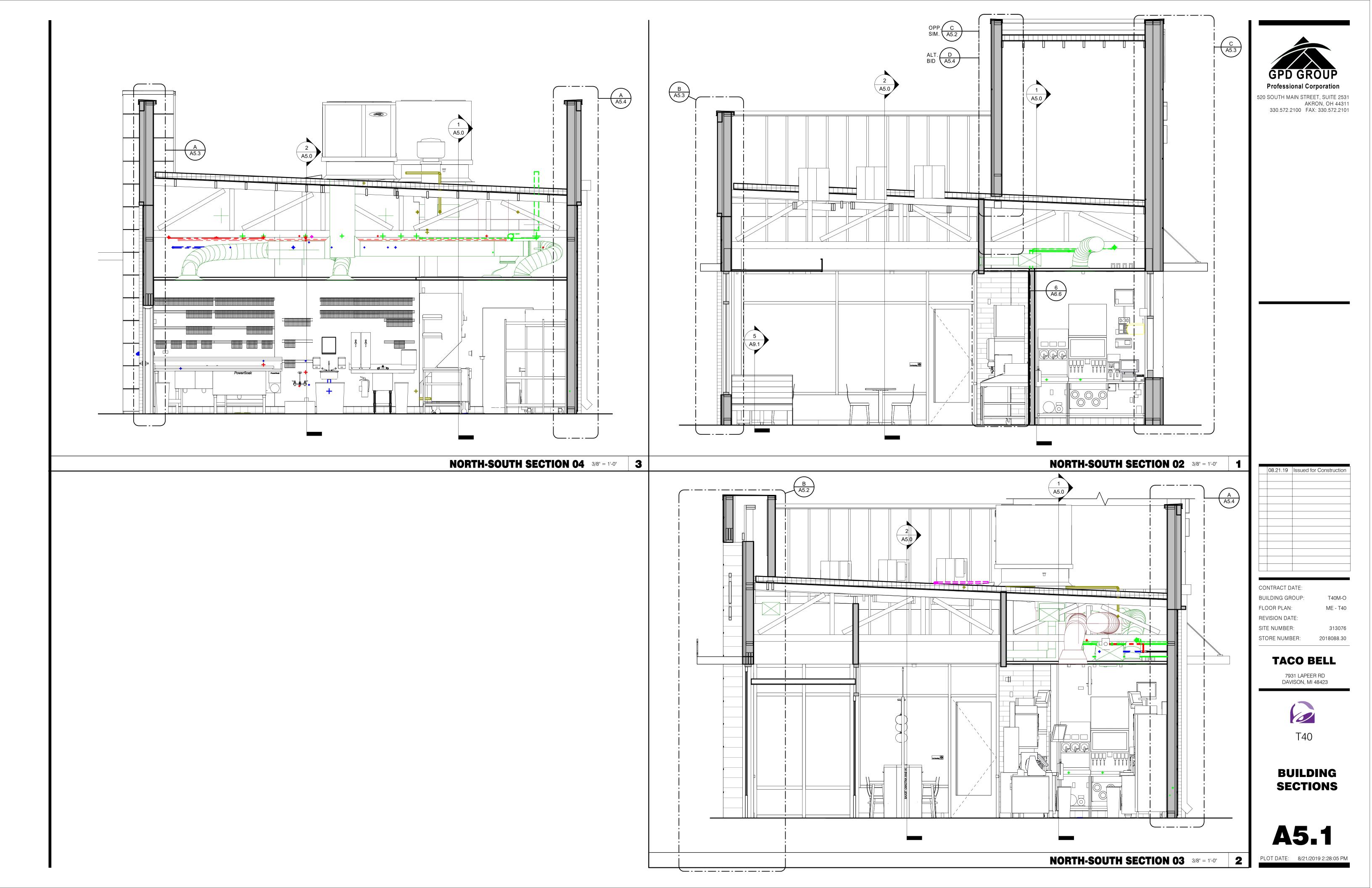


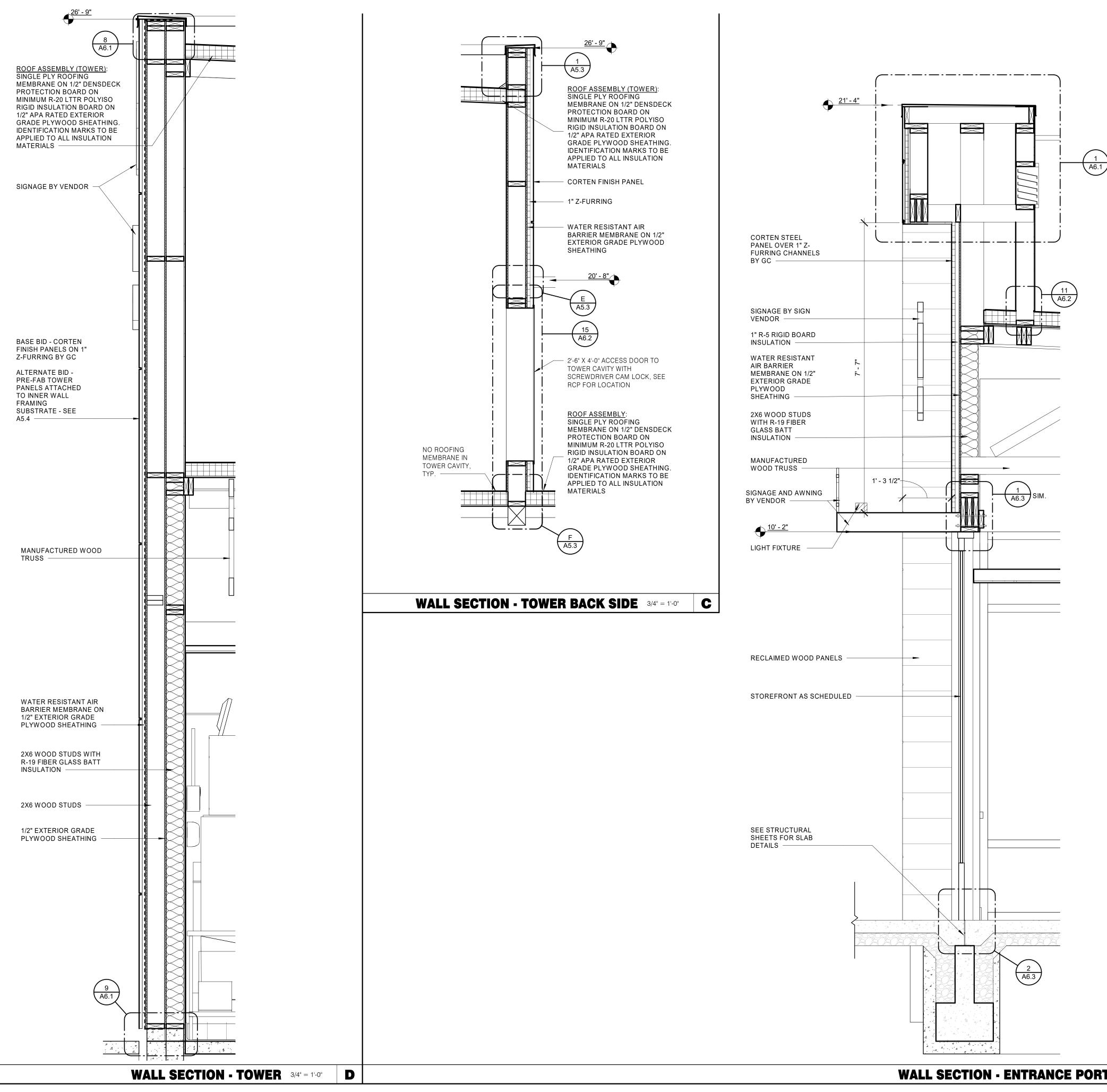


	TACO BELL	
BELL		•

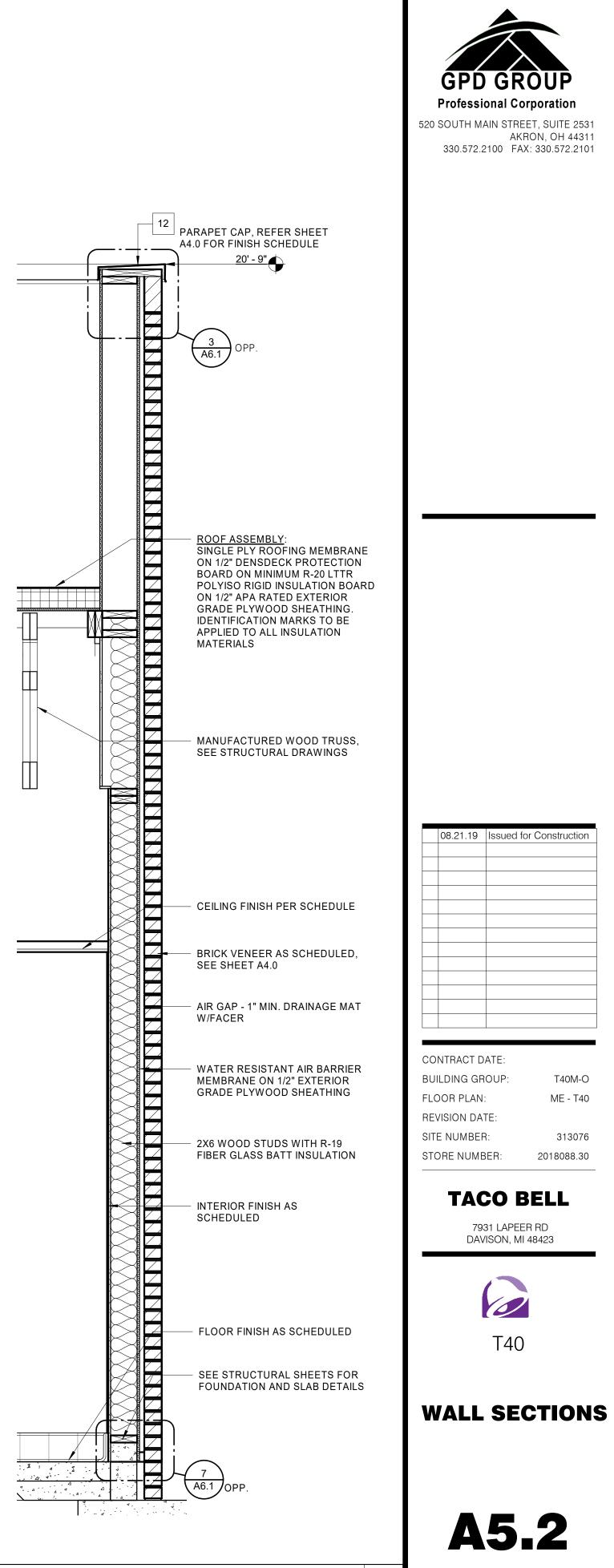
<b>SIDE ENTRY ELEVATION</b> 1/4" = 1'-0"	С	







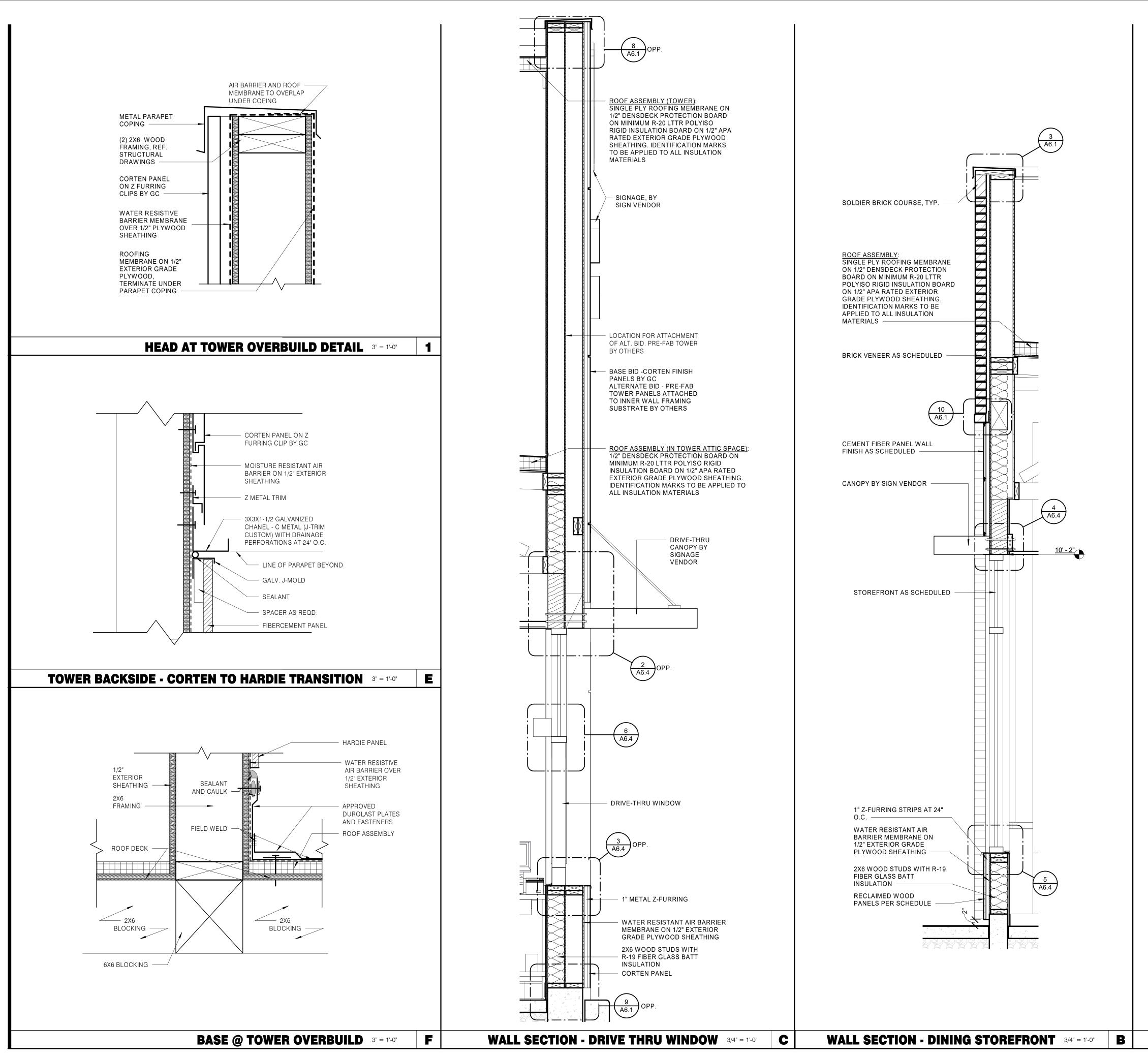
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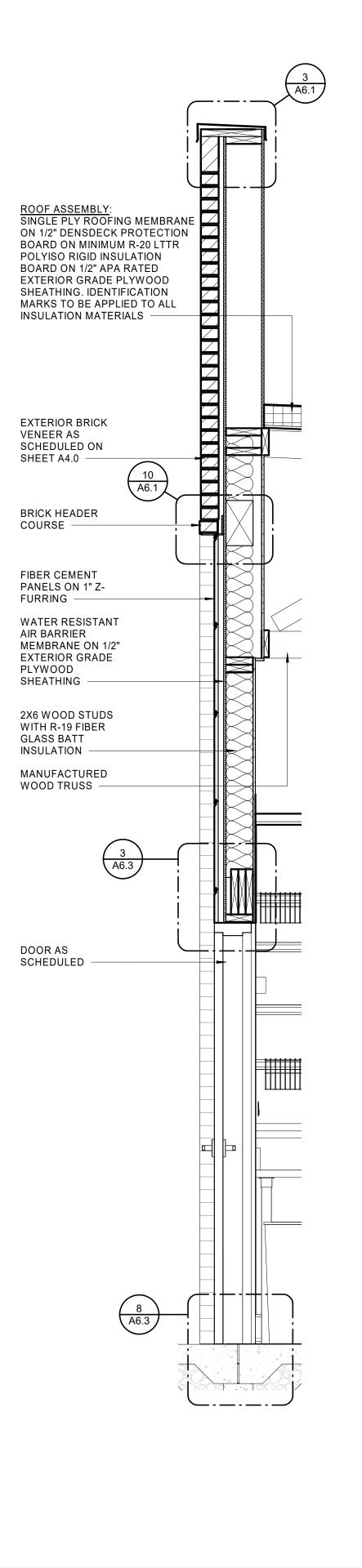


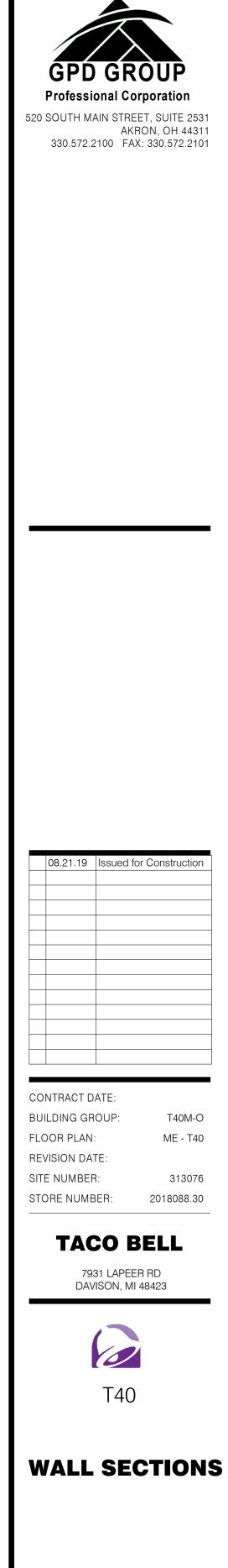
WALL SECTION - TYPICAL 3/4" = 1'-0"

A

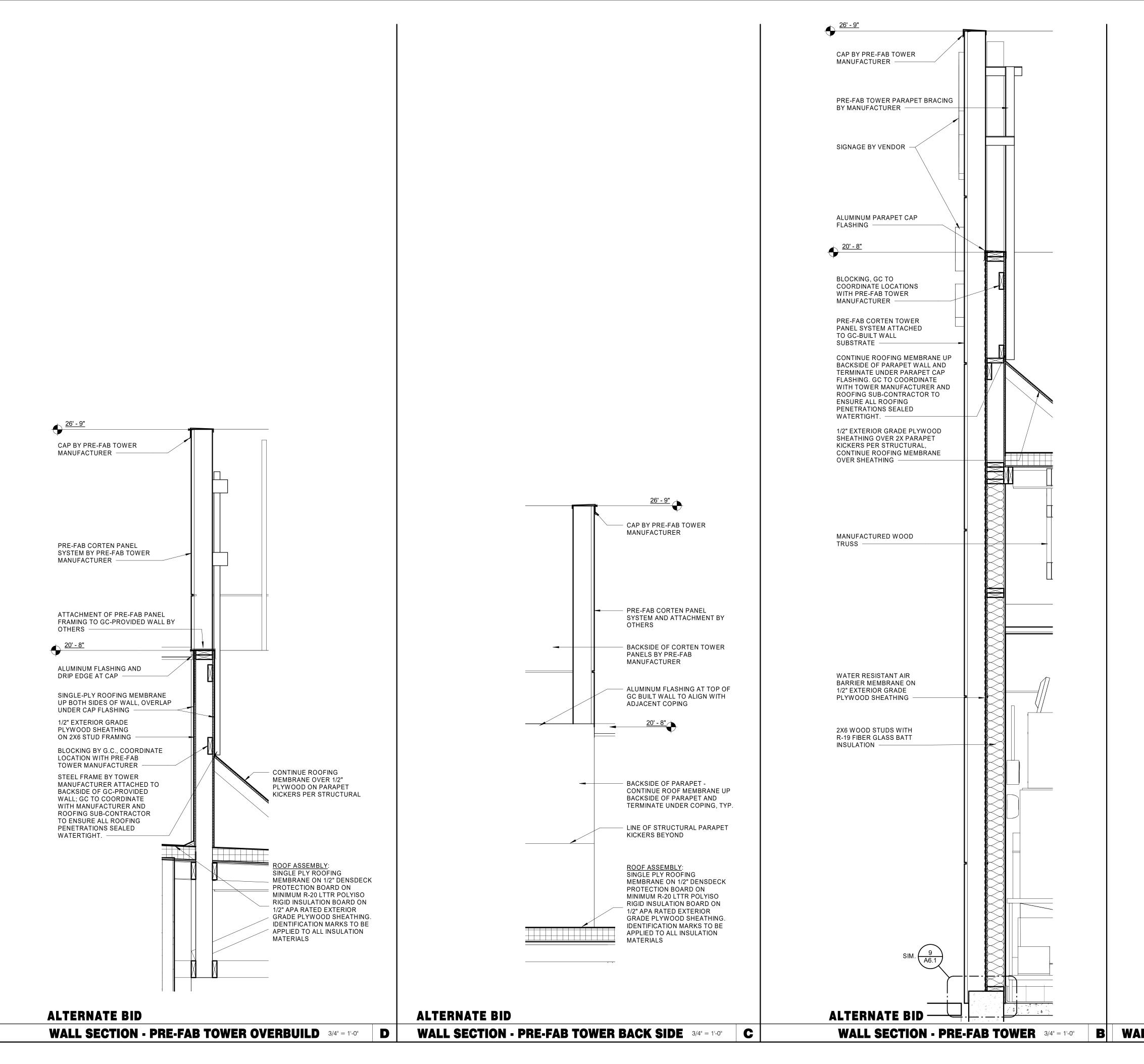
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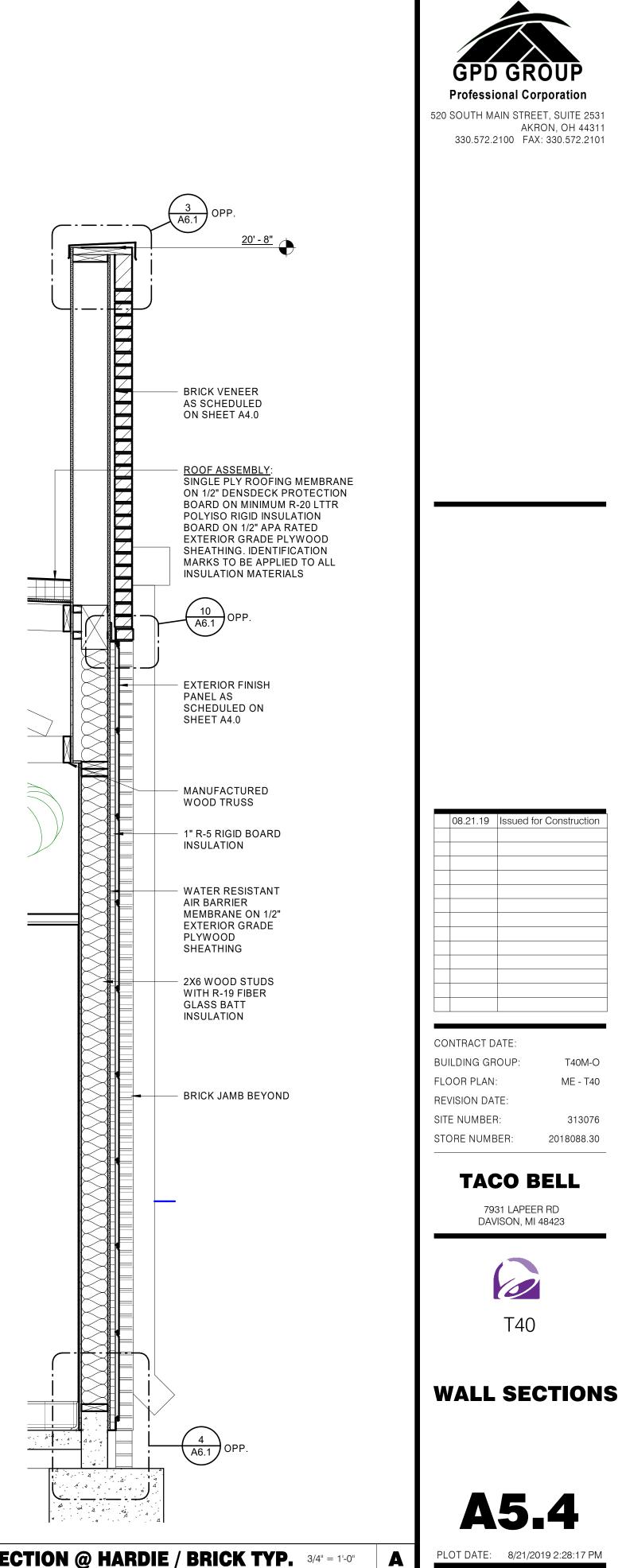




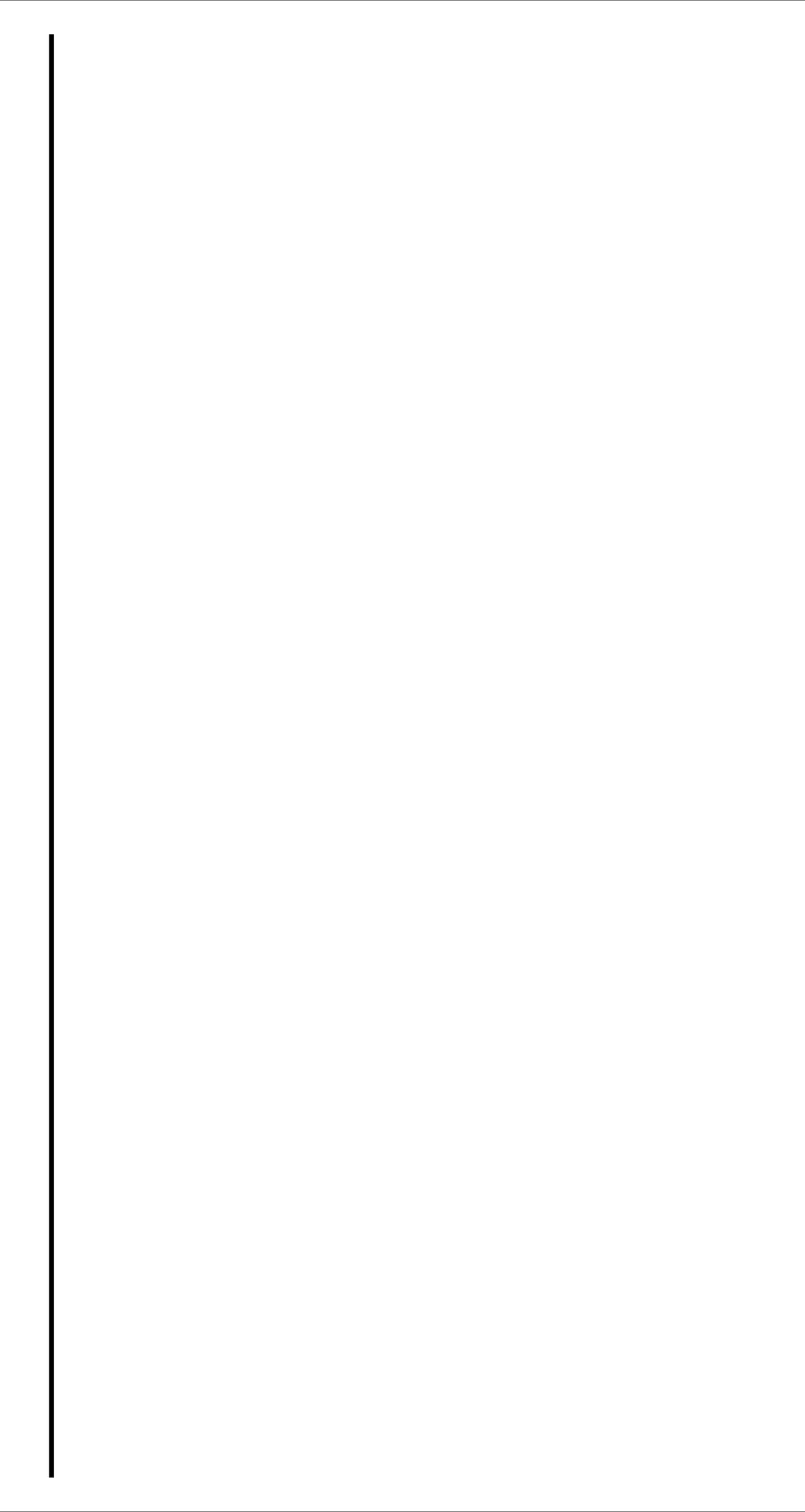


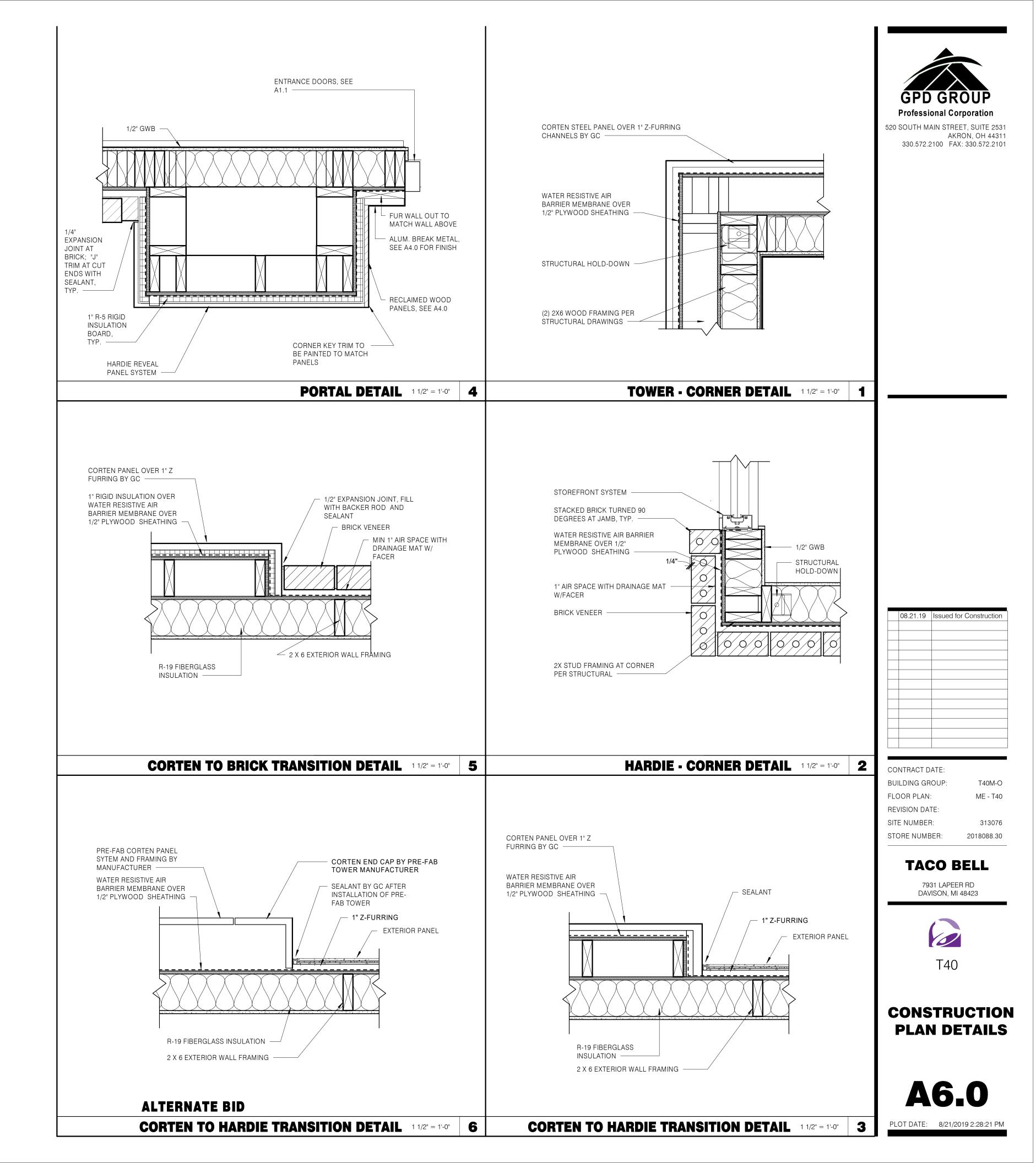


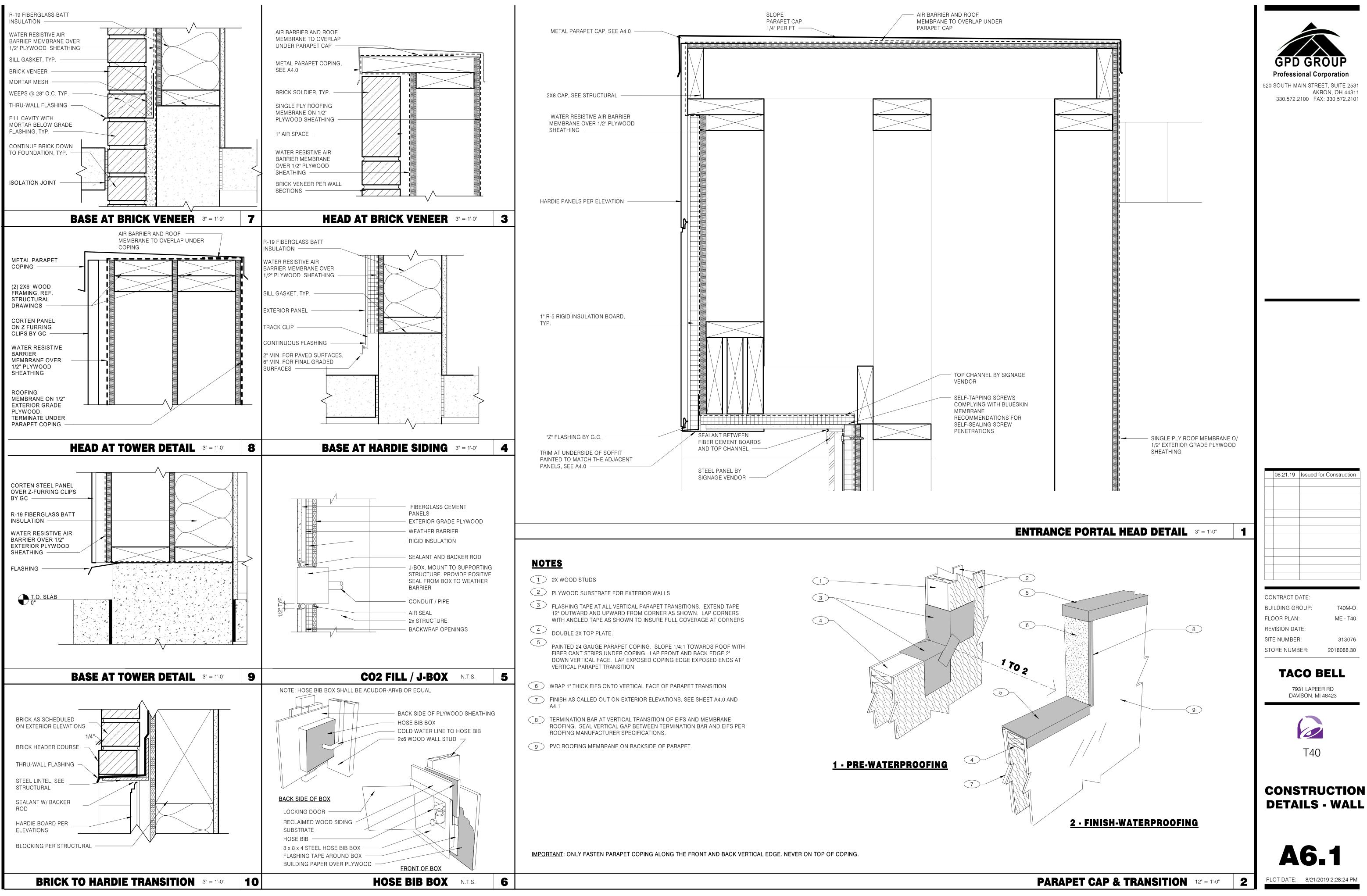


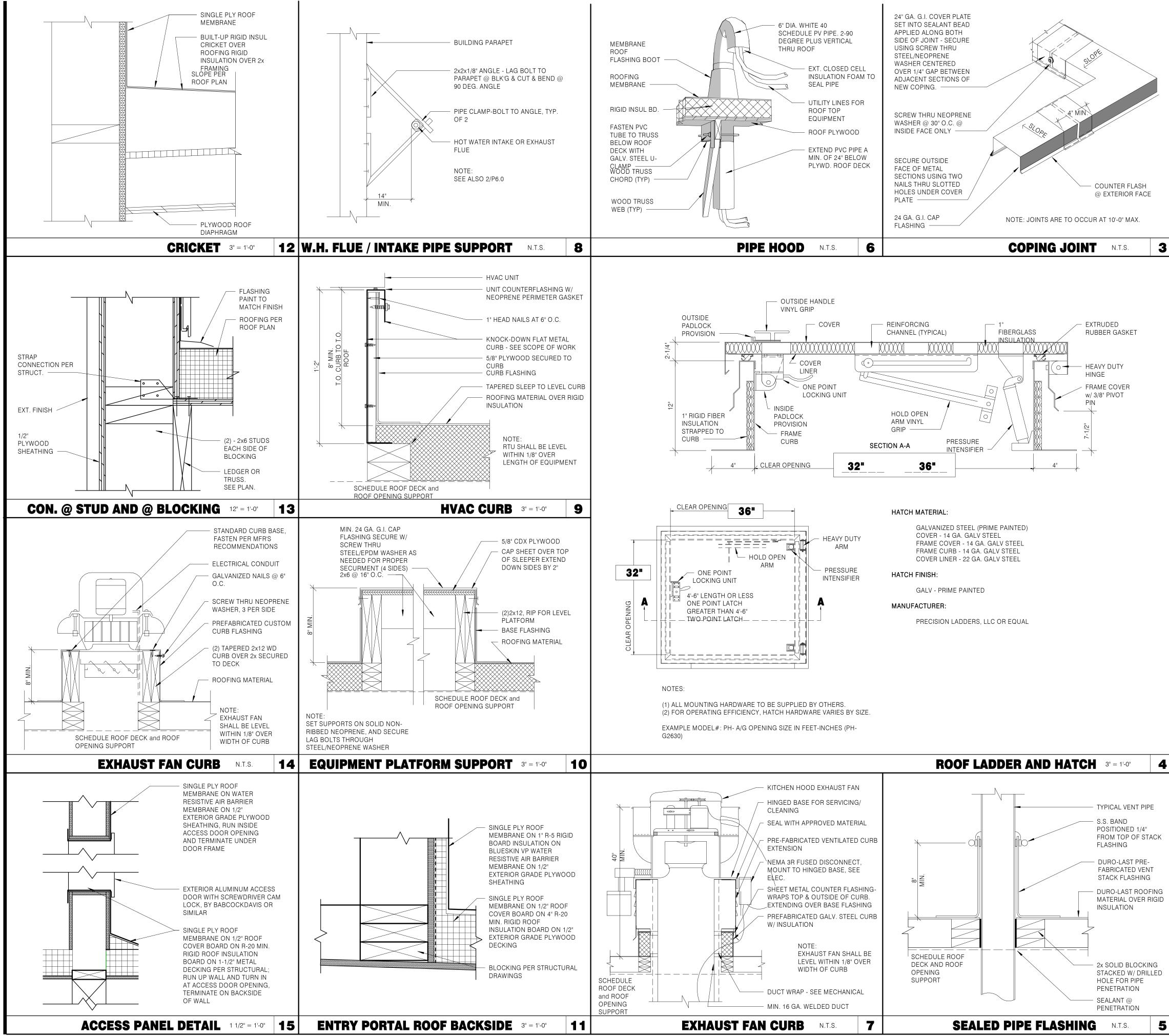


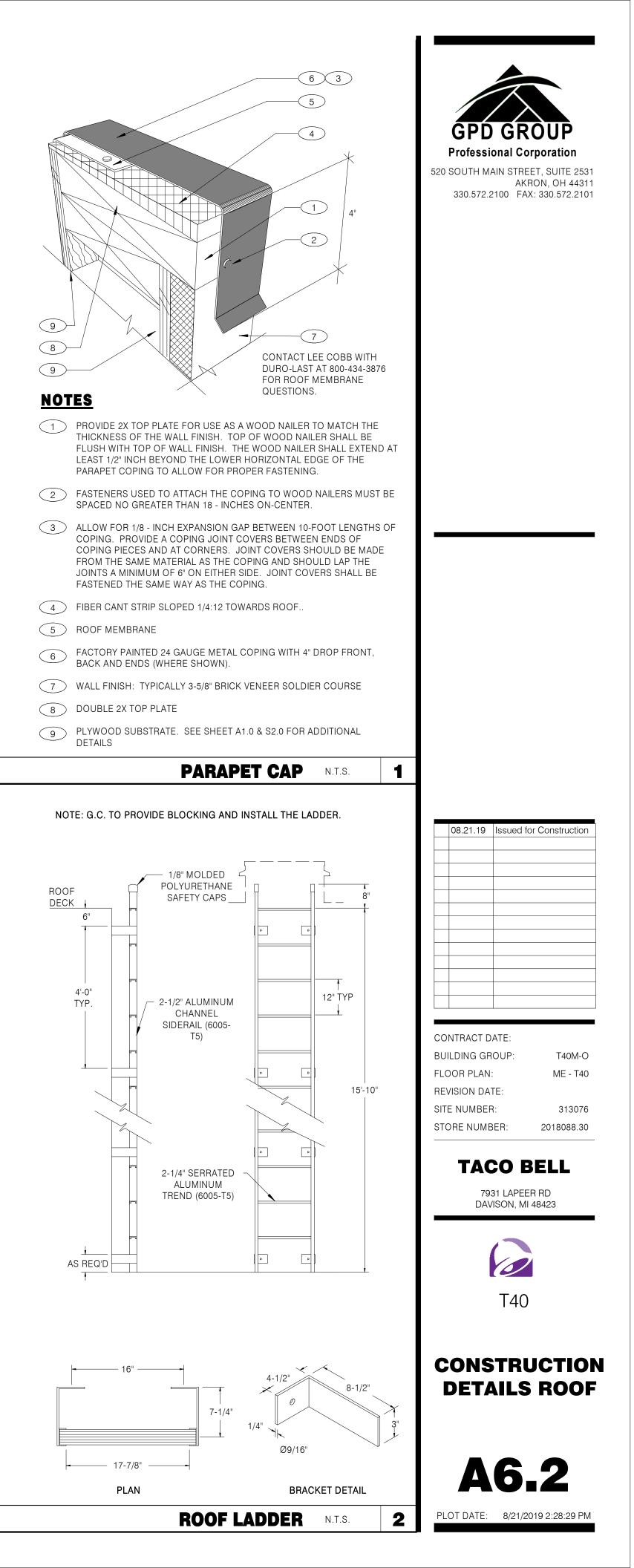
**B** WALL SECTION @ HARDIE / BRICK TYP. 3/4" = 1'-0"

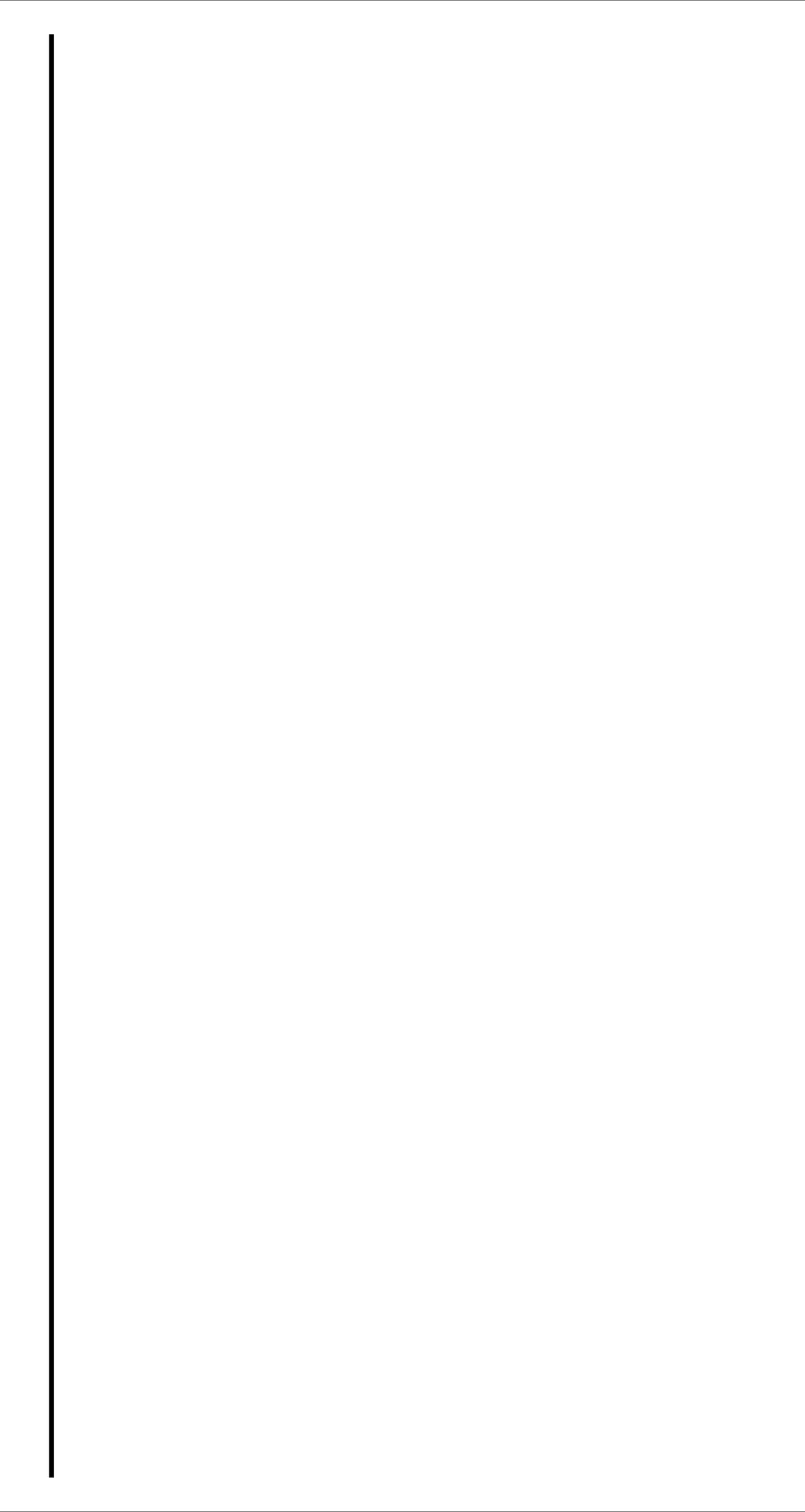


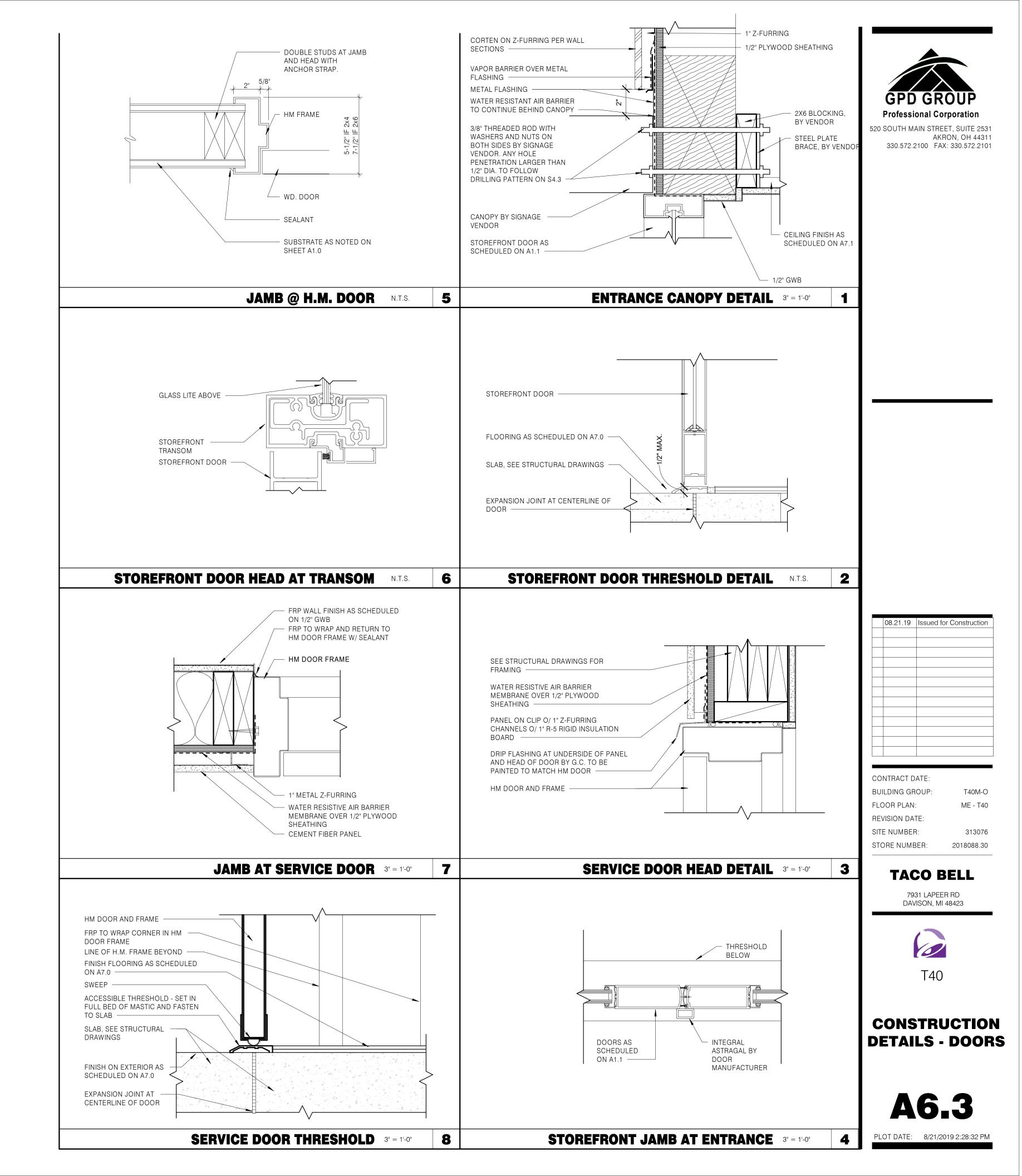












BLDG PAPER -

FLAP -

WATER PROOFING MEMBRANE APPLIED OVER STUDS & PLYWD

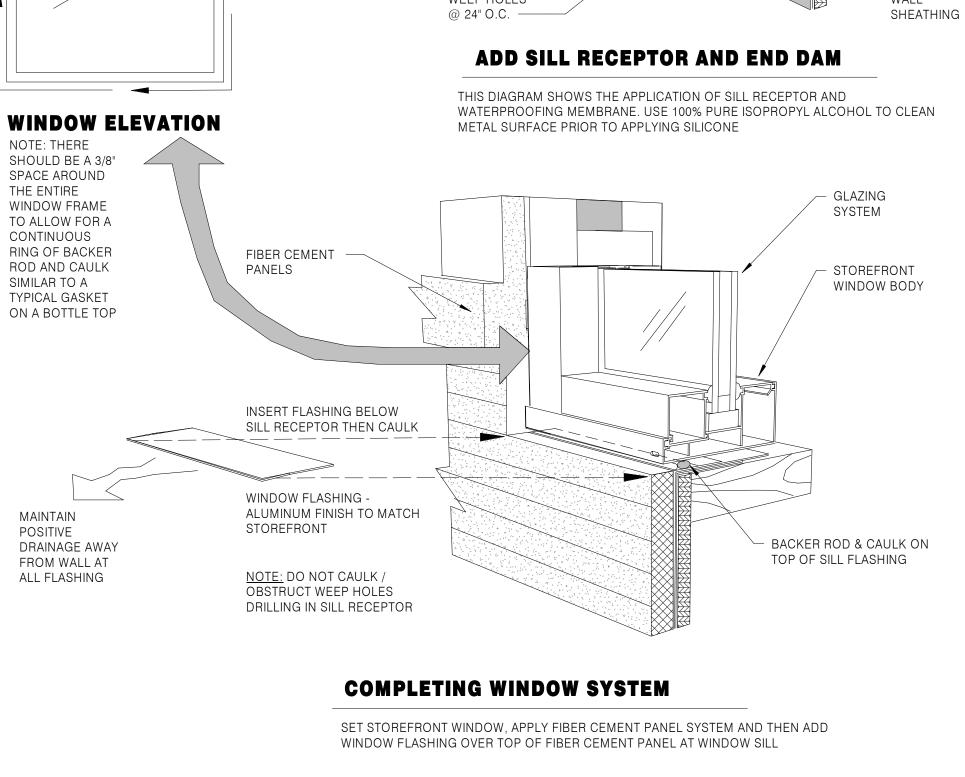
WATER

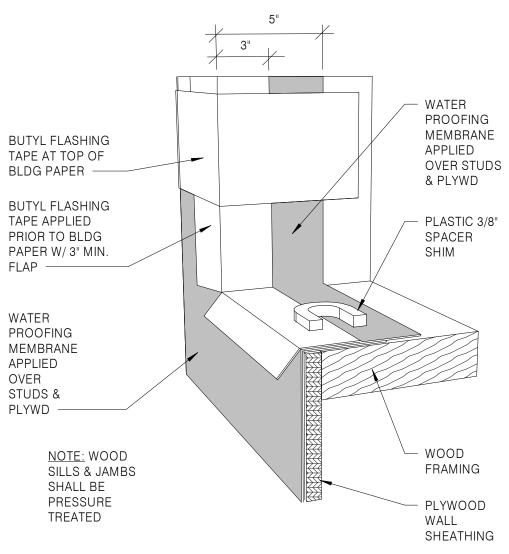
PROOFING MEMBRANE APPLIED OVER STUDS & PLYWD -

WINDOW BOT. TRACK (SILL RECEPTOR) 3/8" SPACE CONTINUOUS

AROUND ENTIRE 

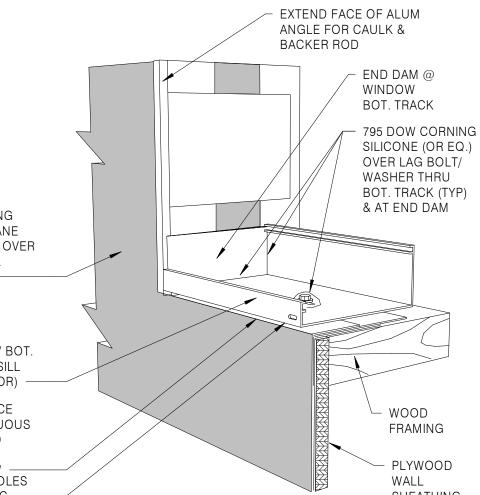
THIS DIAGRAM SHOWS THE APPLICATION OF SILL RECEPTOR AND METAL SURFACE PRIOR TO APPLYING SILICONE GLAZING SYSTEM FIBER CEMENT PANELS - STOREFRONT WINDOW BODY INSERT FLASHING BELOW SILL RECEPTOR THEN CAULK WINDOW FLASHING -ALUMINUM FINISH TO MATCH STOREFRONT BACKER ROD & CAULK ON TOP OF SILL FLASHING NOTE: DO NOT CAULK / OBSTRUCT WEEP HOLES DRILLING IN SILL RECEPTOR



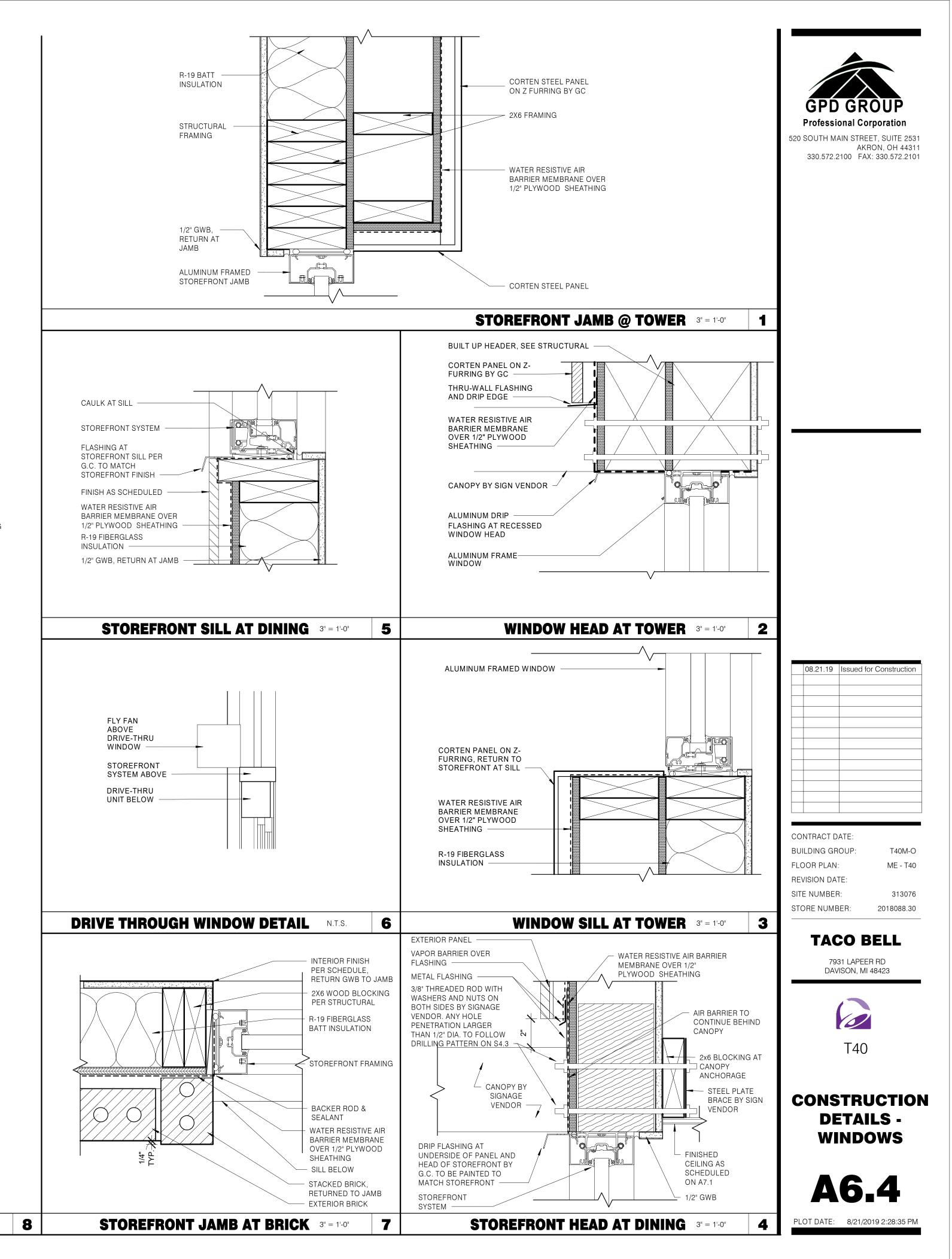


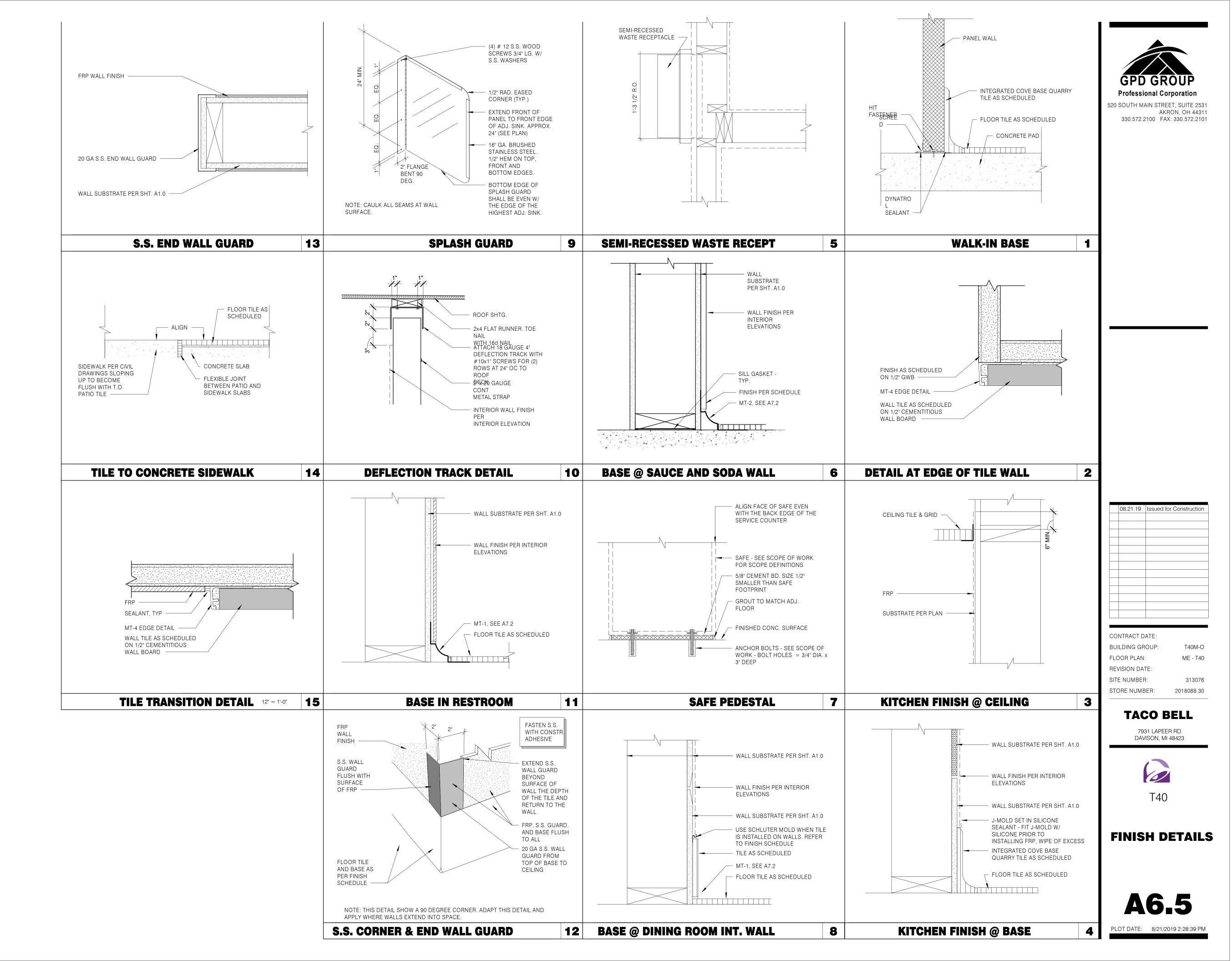
### WATER PROOFING ROUGH OPENING

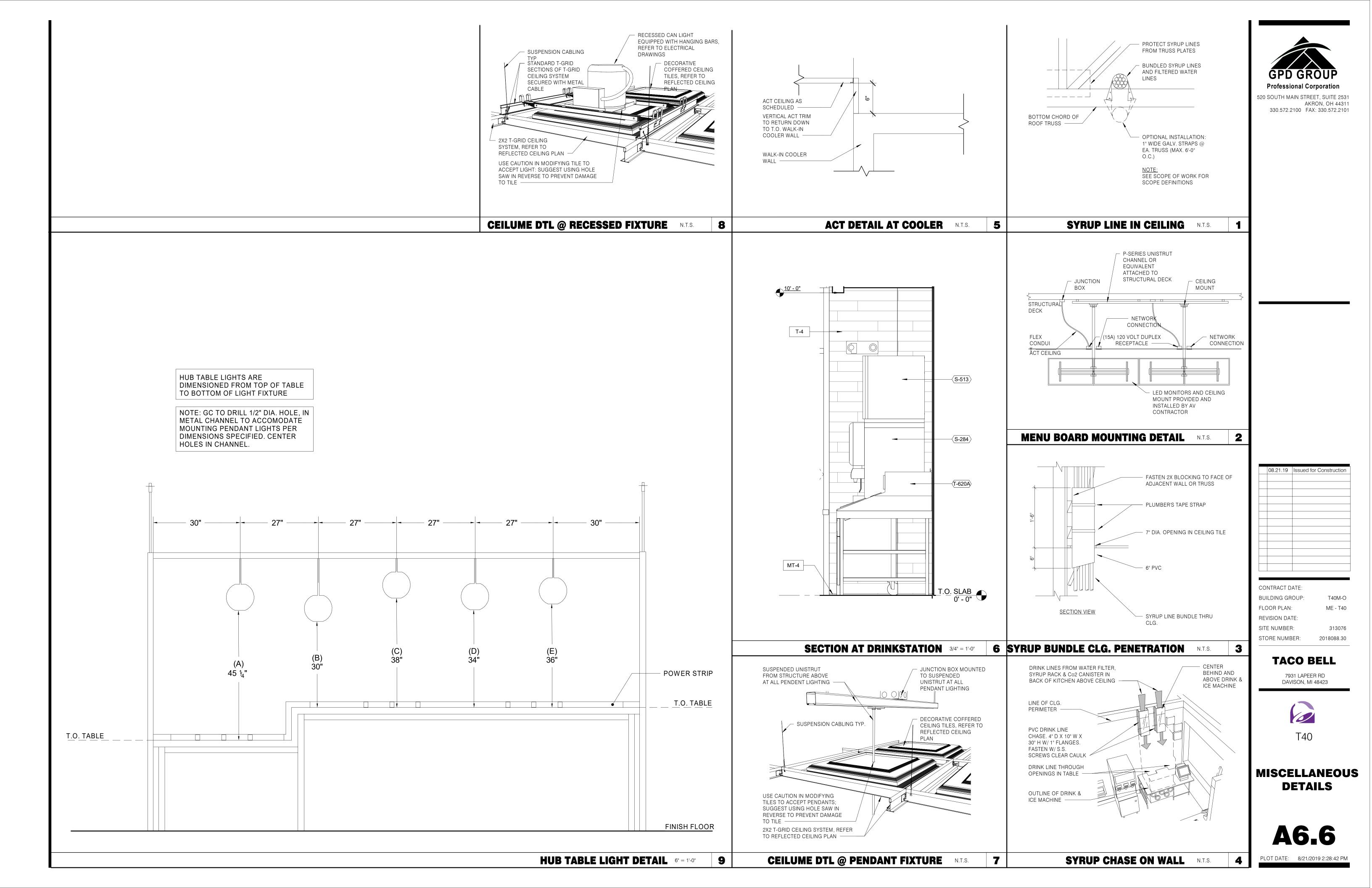
AFTER FRAMING WATER PROOFING MEMBRANE PER FIBER CEMENT PANEL MANUFACTURER RECOMMENDATIONS. ADD FLASHING TAPE AROUND THE ROUGH OPENING FOR THE WINDOW AND DOOR OPENING.

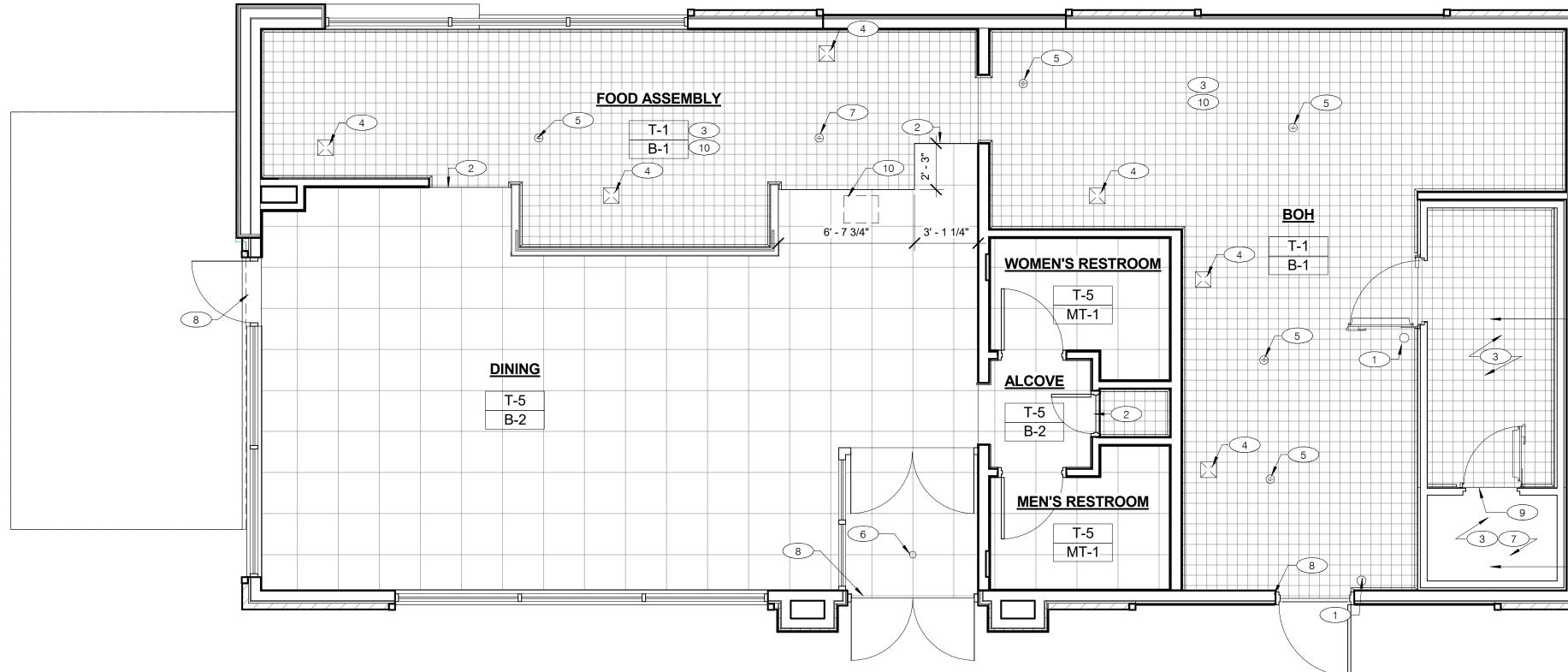


**TYPICAL WINDOW WALL WATER PROOFING** 3" = 1'-0"

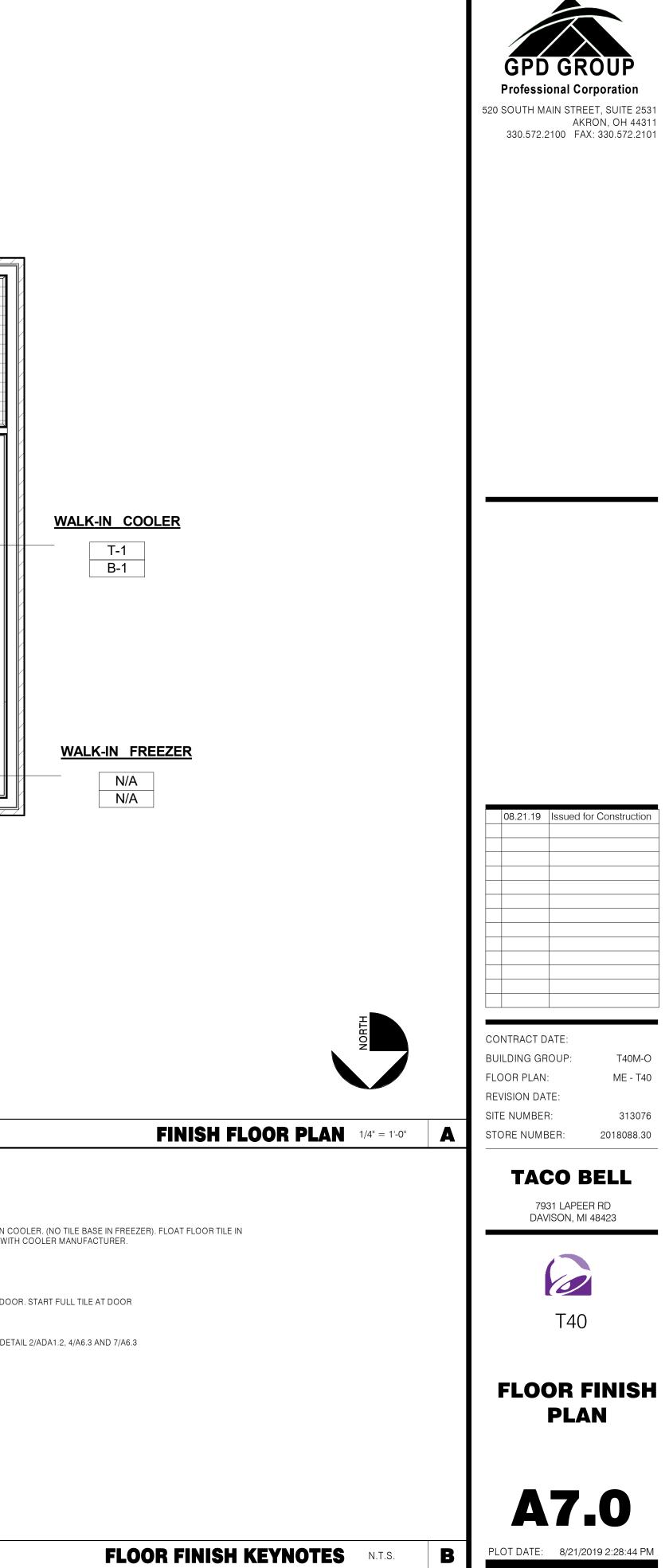


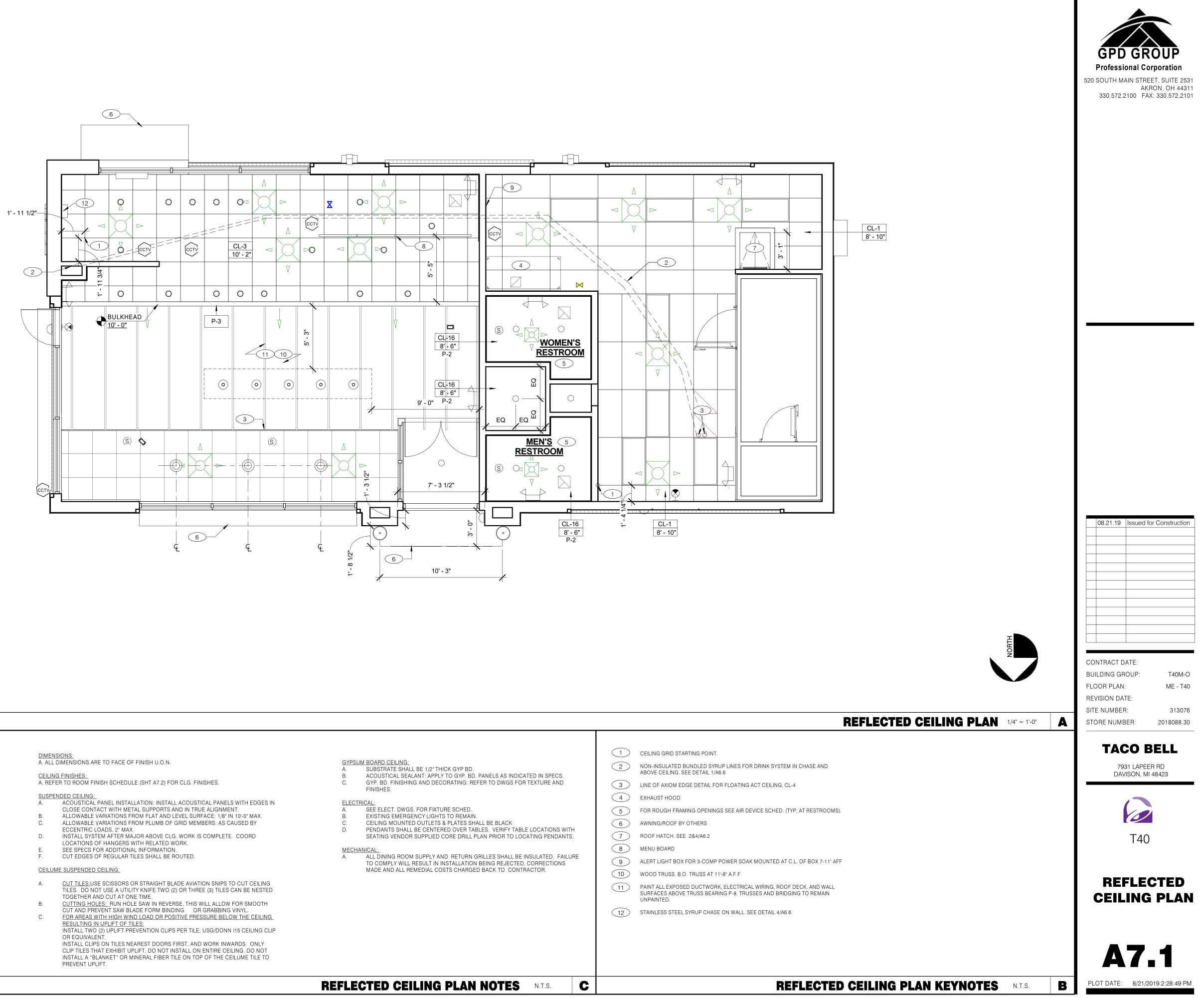






<ul> <li>C. TILE INSTALLATIONS REQUIRE MANUFACTURERS STANDARD MOLDED CORNERS AT BOTH INSIDE AND OUTSIDE CORNERS.</li> <li>D. ALL BASE TILE SHALL BE SANITARY COVE STYLE WITH 3/8" MIN RADIUS UNLESS NOTED OTHERWISE.</li> <li>E. SEE SCOPE OF WORK SHEETS FOR RESPONSIBILITIES.</li> <li>F. PROVIDE CLEAR SILICONE CAULK WHERE FRP STOPS AT TOP OF COVE BASE.</li> </ul>	<ul> <li>5 FLOOR DRAIN</li> <li>6 START POINT FOR FLOOR TILE, CENTERED ON DO</li> <li>7 NO BASE BEHIND WALK-IN COOLER/FREEZER</li> <li>8 ADA COMPLIANT ALUMINUM THRESHOLD. SEE DE</li> <li>9 STEP-UP AT FREEZER TRANSITION</li> <li>10 PEDESTAL SAFE UNDER POS COUNTER</li> </ul>
<ul> <li>A. DENOTES FINISH MATERIAL. REFER TO SHT A7.2 FOR FINISHES.</li> <li>B. TILE JOINTS (U.O.N.): <ol> <li>PORCELAIN FLOOR TILE : 3/16"</li> <li>GLAZED WALL TILE : 1/8"</li> <li>BASE, TRIM AND ACCESSORIES : MATCH ADJOINING TILE UNITS</li> </ol> </li> </ul>	<ol> <li>HUB DRAIN</li> <li>FLOAT TILE FOR FLUSH TRANSITION</li> <li>PROVIDE FLOOR TILE AND BASE INSIDE WALK-IN COOLER TO DRAIN TO KITCHEN. COORDINATE W</li> <li>FLOOR SINK</li> </ol>





				FINISH LEGEND					
SYMBOL	CATEGORY	MANUFACTURER	STYLE	COLOR	SIZE	GROUT	Comments	Name	Area Flo
								DINING	600 SF T-5
CEILING CL-1	CEILING	CERTAINTEED	ACT VINYL ROCK #1140 WASHABLE NON PERFORATED	WHITE	2X4X1/2"	N/A	WHITE SUSPENDED GRID W/ALUMINIUM FLAME SPREAD RATING 0-25, CLASS A	FOOD ASSEMBLY ALCOVE BOH	296 SF T-1 28 SF T-5 465 SF T-1
CL-2 CL-3	CEILING CEILING	CEILUME CERTAINTEED	ACT VINYL ROCK #1140 WASHABLE NON PERFORATED	LATTE WHITE	2X2 2X2X1/2"	N/A N/A	WHITE SUSPENDED GRID W/ALUMINIUM FLAME SPREAD RATING 0-25, CLASS A	WOMEN'S RESTROOM MEN'S RESTROOM WALK-IN COOLER WALK-IN FREEZER VESTIBULE STORAGE	M 54 SF T-5 54 SF T-5 102 SF T-1 36 SF N/A 47 SF 8 SF
CL-16	CEILING	N/A	GYPSUM BOARD				P-2	STORAGE	1691 SF
CEILING GRID CL-12	CEILING GRID	ARMSTRONG	PRELUDE XL 15/16" EXPOSED TEE	SW6080 UTTERLY BEIGE					
CEILING TRIM CL-4	CEILING TRIM	ARMSTRONG	AXIOM CLASIC TRIM	PAINT SW6080 UTTERLY BEIGE	10"H PROFILE				
CHAIR RAIL CR-1	CHAIR RAIL	MINWAX	STAINED MAPLE CHAIR RAIL	CLASSIC GREY STAIN	1"X 4"		APPLY 2 COATS OF STAIN PER MANUFACTURER'S SPECIFICATIONS	FLOOR TILE	AREA 860 SF
FLOOR BASE					0)/0			T-5 URBAN WEAVE	790 SF
B-1	FLOOR BASE	EUROWEST	QUARRY	PURITAN GREY #507	3X6	1/8" JOINT WIDTH	, STACK BOND INSTALLATION		4040.05
B-2 FLOORING	FLOOR BASE	EUROWEST	URBAN WEAVE X104292X8	GREY	4X24 NOMINAL	MAPEI, PEWTER #2, 1/8" JOINT WIDTH	STACK BOND INSTALLATION	FRP-1 LAMINATES L-4 BAILEY PAINT	1049 SF 111 SF
T-1	FLOORING	EUROWEST	QUARRY	PURITAN GREY #507	6X6	MAPEI #106 WALNUT 1/8" JOINT WIDTH	· , ,	P-2 WORLDLY GRAY P-3 GRIFFIN	645 SF 695 SF
T-5	FLOORING	EUROWEST	URBAN WEAVE X606292X8	GREY	24X24	MAPEI, PEWTER #2, 1/8" JOINT WIDTH	FOH/RESTROOM FLOOR TILE	WALL PROTECTION WC-1 WOLF GORDON	245 SF
T-5a	FLOORING	CREATIVE MATERIALS CORP.	PORTLAND HOOD 2.0 DECO		24X24	MAPEI, PEWTER #2, 1/8" JOINT WIDTH	ALTERNATE FOH/RESTROOM FLOOR TILE	WALL TILE	
	LAMINATE	MARLITE		FRP S5373 TB GRAY				T-3 TERRE NERO T-4 ARCTIC ANTICATO	342 SF 286 SF
FRP-1 L-2	LAMINATE	WILSONART	S-5373 SMOOTH FINISH 4888-38	RUSTIC SLATE	4' X 9' X .90		FOR CALIFORNIA STORES: FRP S100 WHITE SMOOTH FINISH S/2/S 4'X9'X.90 FINE VELVET FINISH, SAUCE AND SODA, POS	- ARCTIC ANTICATO	280 SF
L-3		WILSONART	4994-60	FIRED STEEL			AND PICK-UP COUNTER FACE MATTE FINISH, OPEN KITCHEN SHROUD	-	
L-3	LAMINATE	NEVAMAR	WK0027-T	BAILEY			INTERIOR DOORS		
L-10	LAMINATE	WILSONART	S7027	SMOKY WHITE			OFFICE SHELVING LAMINATE	-	
L-11 METAL TRANSI		WILSONART	RECOVER	RUSTIC SLATE			REMODELS ONLY		
MT-1	METAL TRANSITION	SCHLUTER	DILEX AHK	AT: SATIN NICKEL ANODIZED ALUMINUM		N/A	FOR STORES IN CALIFORNIA ONLY USE: AE: SATIN ANODIZED ALUMINUM		
MT-2	METAL TRANSITION	SCHLUTER	JOLLY	SATIN ANODIZED		N/A	VERTICAL TRIM AT WALL TILE TO GYPSUM		
MT-3	METAL TRANSITION	SCHLUTER	DILEX AHK	ALUMINUM EB: BRUSHED STAINLESS STEEL		N/A	BOARD TRANSITION DINING/POS AREAS BRUSHED STAINLESS STEEL COVE BASE TRIM WHERE WALL TILE MEETS DINING FLOOR TILE		
MT-4	METAL TRANSITION			SATIN ANODIXED ALUMINUM		N/A	1/2" X 1/2" OUTSIDE CORNER RIM ON WAINSCOT		
MT-5	METAL TRANSITION			BLACK			1/2" DECORATIVE METAL TRIM AT EXPOSED EDGES AND VERTICAL SEAMS; AND 1/2" x 1/2" CORNER TRIM AT OUTSIDE CORNERS ON POS		G FINISHES BY WIC / WIF BOX
SOLID SURFAC	 F						COUNTER AND MILLWORK	3. REFER TO INTERIOR ELEVATION 4. APPROVED PAINT MANUFACTUR 5. PORTER, BENJAMIN MORE, SHE	RERS:
SS-1	SOLID SURFACE	STARON	BW010	BRIGHT WHITE		1/2" SS GLUED TO 3/4" PLYWOOD BACKING	COUNTERTOPS/24" DIAMETER TABLE TOP	<ol> <li>MATCH SPECIFIED SCHEDULE C</li> <li>ALL PAINTED GYPSUM BOARD S</li> <li>ALL MORTAR SHALL BE MIXED V</li> <li>DESIGN INTENT</li> </ol>	COLORS EXACTLY. SHALL HAVE A LIGHT ORANGE WITH WHITE SAND TO INSURE
WALL COVERIN	IG WALL COVERING	WOLF GORDON	'RAMPART' HIGH IMPACT	FOUNDATION/ PIGMENT		RAILROAD		9. ALL TILE MUST BE ORDERED FR CORP.	OM THE SAME VENDOR, EITH
			WALL COVERING	(GOH 12172606)		INSTALLATION: THERE SHOULD BE NO SEAMS ALONG WALLS			WILSONART INTERNATIO
			014/2040					DAVID CONDELLO DAVID@CEILUME.COM	ALLYSON MAZZARINI SPECIFICATION REPRESE
P-2 P-3	WALL PAINT WALL PAINT	SHERWIN WILLIAMS	SW7043 SW7026	WORLDLY GREY GRIFFIN	N/A N/A	N/A N/A	SEMI-GLOSS SEMI-GLOSS	1-(877)492-5605	(562)781 - 4059 MAZZARA@WILSONART.C
P-8	WALL PAINT	SHERWIN WILLIAMS	SW7026	GRIFFIN	N/A	N/A	FLAT FINISH	IDX DENNIS CARUANA	SHERWIN WILLIAMS
P-12 WALL TILE	WALL PAINT	SHERWIN WILLIAMS	SW7043	WORLDLY GREY			FLAT FINISH	SENIOR PROJECT MANAGER DIRECT: (909)212 - 8375	BRAD HARRINGTON (216)341-5553 EXT 115
T-2	WALL TILE	EUROWEST	TERRECOTTE NERO PAV. SQ. MIXED 713192		8X8	MAPEI #47 CHARCOAL, 1/8" JOINT WIDTH	RESTROOM ACCENT WALL TILE	CELL: (909)217 - 6674 DENNIS.CARUANA@IDXLOSANGELES.COM <u>EVERBRITE</u>	CELL: (216)-210-2723 EUROWEST DECORATIVE JAN DETER
T-2a	WALL TILE	CREATIVE MATERIALS CORP.	TERRA DECO MIX		8X8	MAPEI #47 CHARCOAL, 1/8"	ALTERNATE RESTROOM ACCENT WALL TILE	ANTHONY NOTO ANOTO@EVERBRITE.COM	NATIONAL ACCOUNT MAN DESIGN/ ARCH. CONSULT (714)-309-9551 JDETER@EUROWEST.COI
T-3	WALL TILE	EUROWEST	TERRE NERO 713175		8X8	JOINT WIDTH MAPEI #47 CHARCOAL, 1/8"	RESTROOM WALL TILE	RANDY KERR RKERR@AGISIGN.COM	WWW.EUROWEST.COM
Т-3а	WALL TILE	CREATIVE MATERIALS	TERRA ANTHRACITE		8X8	JOINT WIDTH MAPEI #47	ALTERNATE RESTROOM WALL TILE	CUMMINGS ANN BAKER (800)489-7446 EXT. 10001 DIRECT: (615)872-0068	CRAIG LANSLEY PH: 518.713.5372 CLANSLEY@CREATIVEMA
T-4	WALL TILE	CORP. EUROWEST	ARTIC ANTICATO 8mm		3X36	CHARCOAL, 1/8" JOINT WIDTH MAPEI #01	RUNNING BOND INSTALLATION OFFSET 25%	CELL: (615)812-2204	<u>MARLITE</u> DAN EGBERS (330)343-6621 WWW.MARLITE.COM
T-4a	WALL TILE	CREATIVE MATERIALS	BA790488H SALVAGEWOOD	WHITE WASH	3X36	ALABASTER, 1/8" JOINT WIDTH MAPEI #01	RUNNING BOND INSTALLATION OFFSET 25%,	MATT STEPHENSON (770)-789-8228 JAMES HARDIE	<u>WOLF GORDON</u> JESSICA ROSE
1- <del>4</del> a		CREATIVE MATERIALS CORP.			57.50	ALABASTER, 1/8" JOINT WIDTH	ALTERNATE KITCHEN WALL TILE	LEVI STUFFER WORK: (800) 348 - 1811 CELL: (562) 243 - 8974 LEVI.STAUFFER@JAMESHARDIE.COM	(213)999-1141 JESSICA.ROSE@WOLFGC
								<b>-</b>	

ING COUNTER WALL. ES BY WIC / WIF BOX MFR. DCATIONS OF TILE AND FRP. LLIAMS, ICI, & PITTSBURGH PA EXACTLY. VE A LIGHT ORANGE PEEL TE: TE SAND TO INSURE A COLOF SAME VENDOR, EITHER EUR 

ONART INTERNATIONAL, INC SON MAZZARINI IFICATION REPRESENTATIVE '81 - 4059 ARA@WILSONART.COM

# <u>WIN WILLIAMS</u> HARRINGTON 41-5553 EXT 115 (216)-210-2723

DWEST DECORATIVE SURFAC DETER DNAL ACCOUNT MANAGER GN/ ARCH. CONSULTANT .309-9551 ER@EUROWEST.COM /.EUROWEST.COM

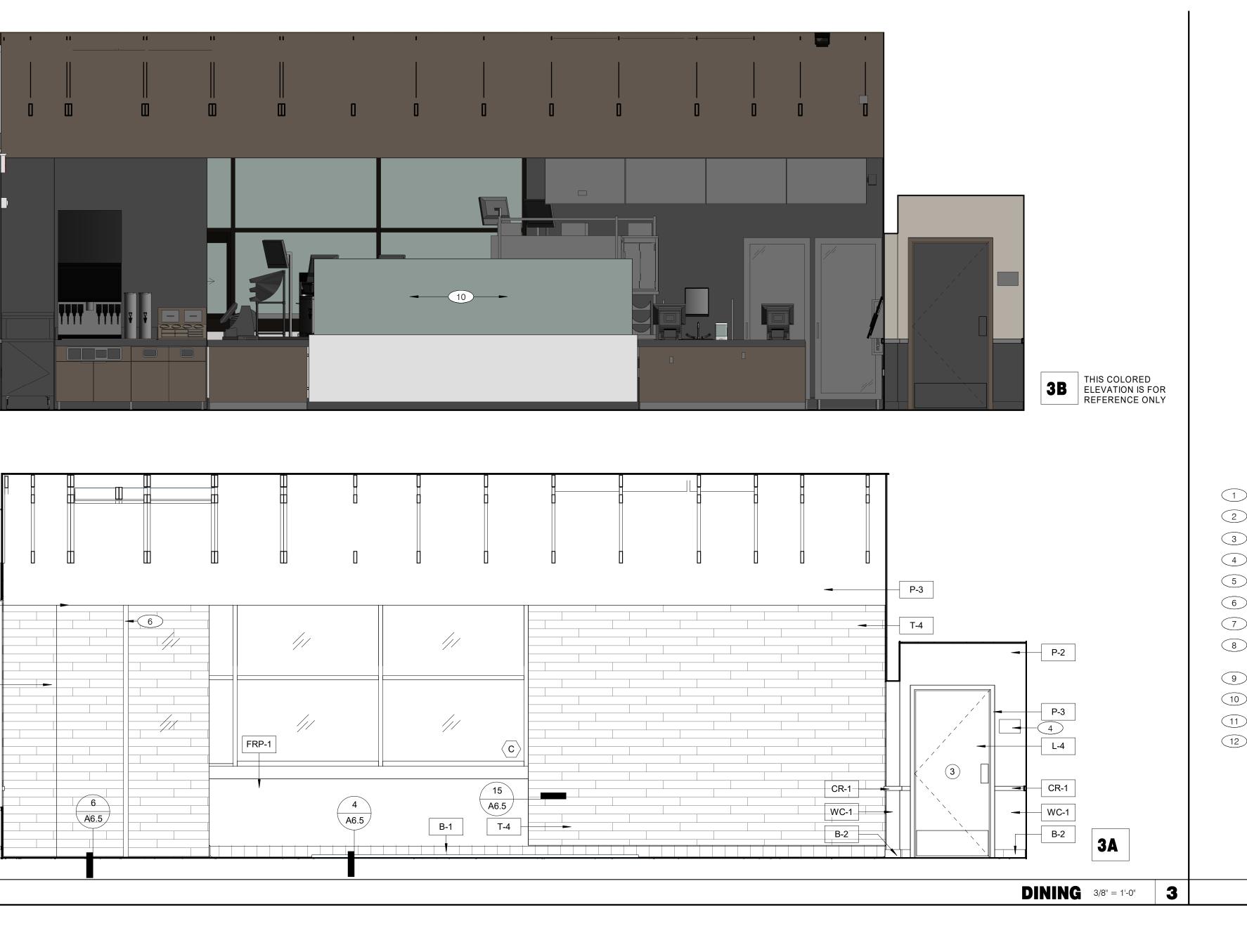
A<mark>TIVE MATERIALS CORP.</mark> G LANSLEY 18.713.5372 ISLEY@CREATIVEMATERIALSC

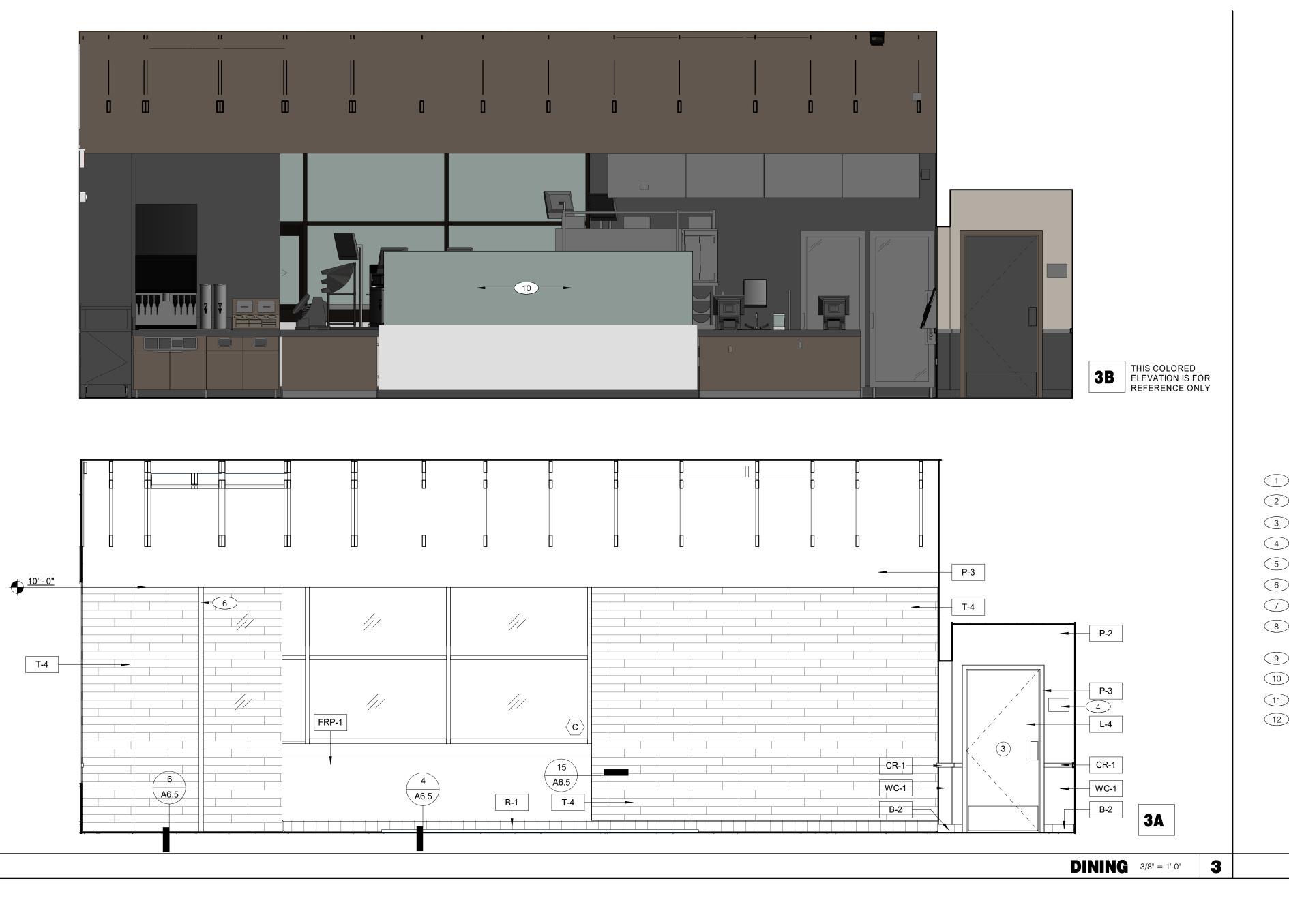
F GORDON ICA ROSE 999-1141 ICA.ROSE@WOLFGORDON.C

FINISH LEGEND

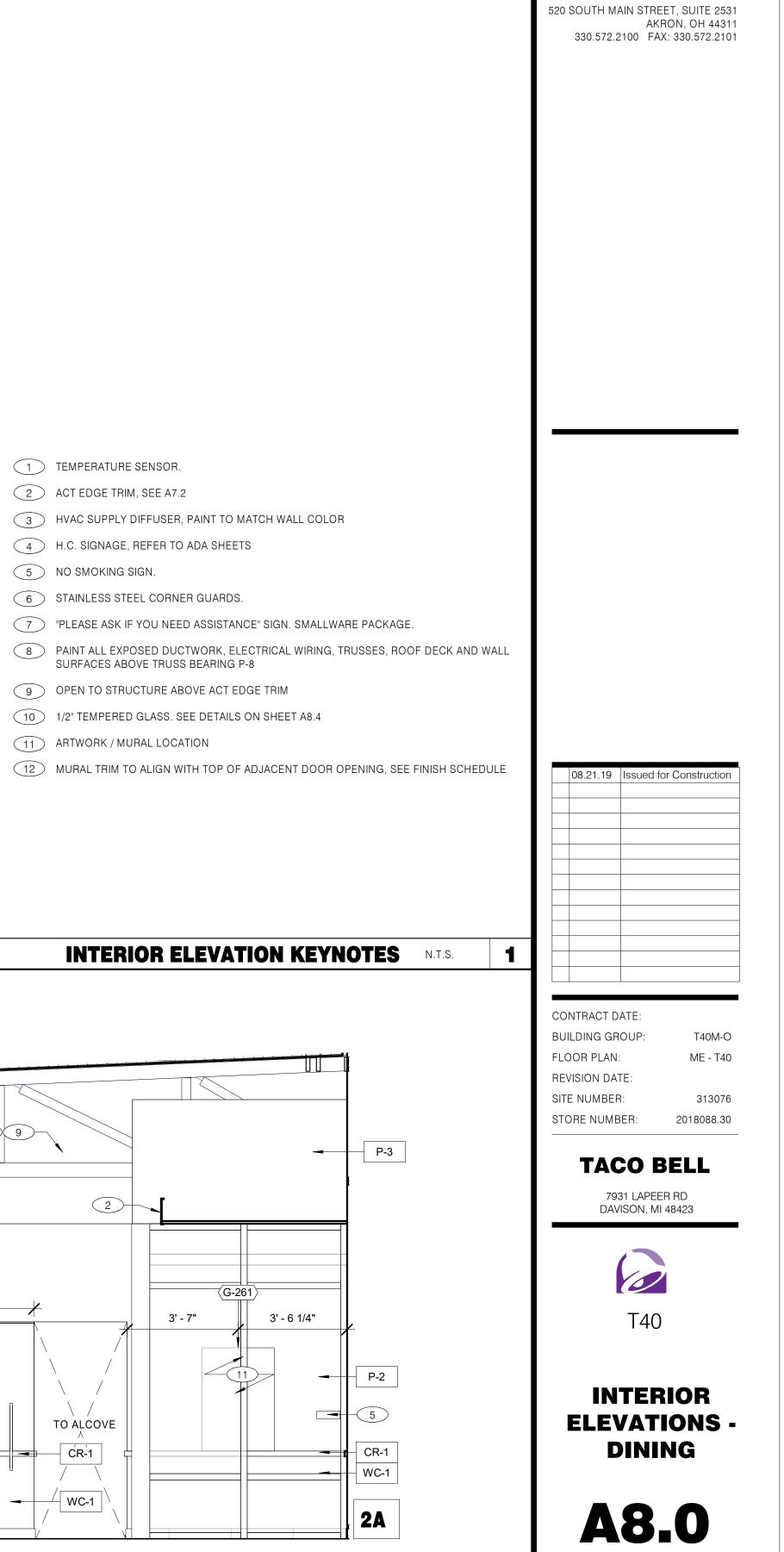
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	ROO	M SCHEDU	JLE				I	
Flo	oor Finish Ba	se Finish	Wall Finish	Accent Wa	II Ceiling Finis	h Comments		
T-5	B-2		P-2, P-3, L-1,	T-4	CL-2, CL-4, F	2-8		
T-1	B-1		CR-1 P-2, FRP-1	T-4	CL-3			
T-5 T-1	B-2 B-1		P-2 FRP-1	N/A N/A	CL-16 CL-1			GPD GROUP
T-5	MT-1		T-3	T-2	CL-1 CL-16	P-2		Professional Corporation
T-5 T-1	MT-1 B-1		T-3 N/A	T-2 N/A	CL-16 N/A	P-2		520 SOUTH MAIN STREET, SUITE 2 AKRON, OH 44
N/A	N/A		N/A	N/A N/A	N/A N/A			330.572.2100 FAX: 330.572.2
			<b>D</b> 00					
			RUU	M FINIS	SH SCHE	DULE	<b>A</b>	
	7 [					_		
REA	SYMBO		BASE FINIS			_		
=	B-1 B-2	URBA	TAN GREY 3X6 AN WEAVE 3X2	4	212' - 3 1/4" 84' - 0 1/2"	_		
F	MT-1 MT-3		AL TRANSITION AL TRANSITION		S 68' - 6" 11' - 6 1/2"	_		
SF			CEILIN	GS				
=	 Type Ma	'k	Descrip		Area	_		
=			r		4 SF	_		
=	CL-1 CL-2		CEILING TILE		452 SF 169 SF	-		
=	CL-2 CL-3	LATT			367 SF	_		
	CL-3		SUM BOARD		187 SF			
=	-		CHAIR RAI	L IN LF				
=	Mark		ARE	A	Length			
	CR-1	STAI	NED MAPLE CH	HAIR RAIL - 1X2	2 29' - 11 3/4"			
ER WALI		ATER	IAL QUA	ANTITIE	S (REF O	NLY)	B	
WIF BOX DF TILE A								
& PITTSI	BURGH PAINTS.							
	E PEEL TEXTURE. A COLOR CONS		THE ORIGINAL					
	HER EUROWEST							
								CONTRACT DATE:
				FI	NISH NO	TES	С	BUILDING GROUP: T40M FLOOR PLAN: ME - T
FRNATIC	NAL, INC.,							REVISION DATE:
ARINI REPRESE								SITE NUMBER: 3130 STORE NUMBER: 2018088.
ONART.	СОМ							
AMS								TACO BELL
FON (T 115								7931 LAPEER RD
2723	<u>E SURFACES</u>							DAVISON, MI 48423
CONSUL								0
NEST.CC	Μ							T40
RIALS C	<u>DRP.</u>							140
2 ATIVEMA	TERIALSCORP.C	ОМ						
		UIVI						FINISH
								SCHEDULE
СОМ								
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WOLFG								
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	ORDON.COM			FINISH		CTS N.T.S.	D	<b>A7_2</b> PLOT DATE: 8/21/2019 2:28:56









**DINING** 3/8" = 1'-0"

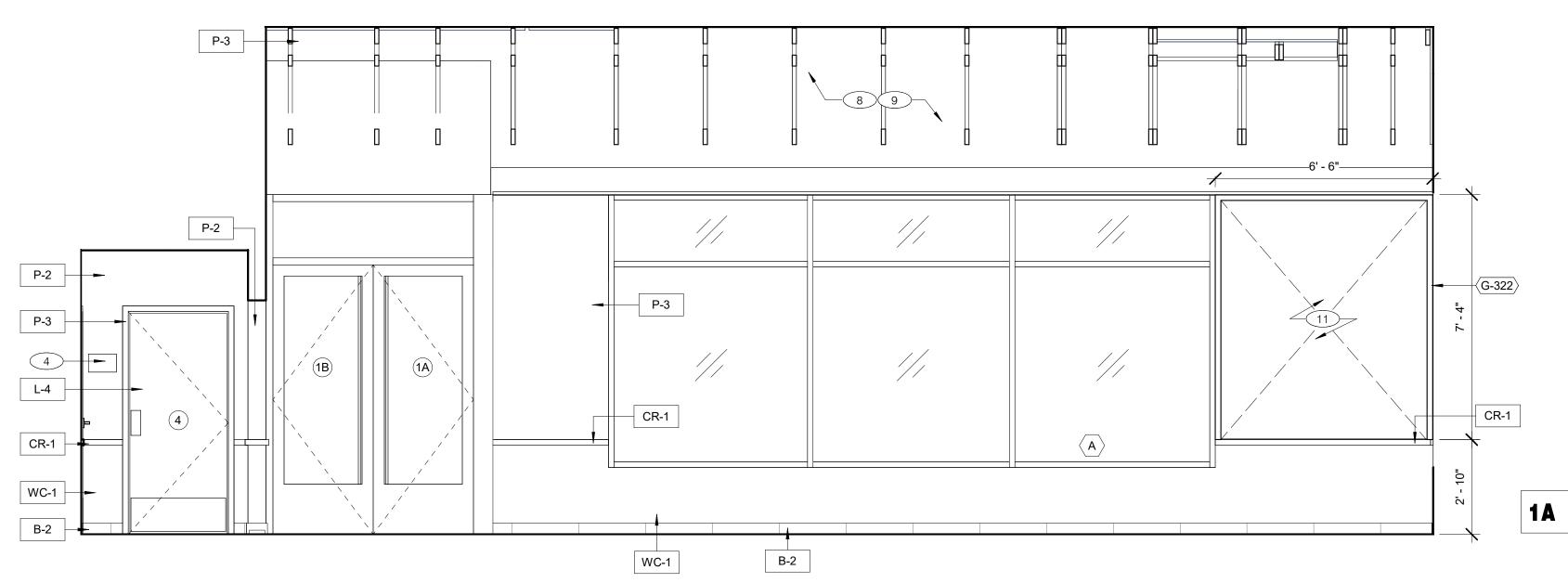
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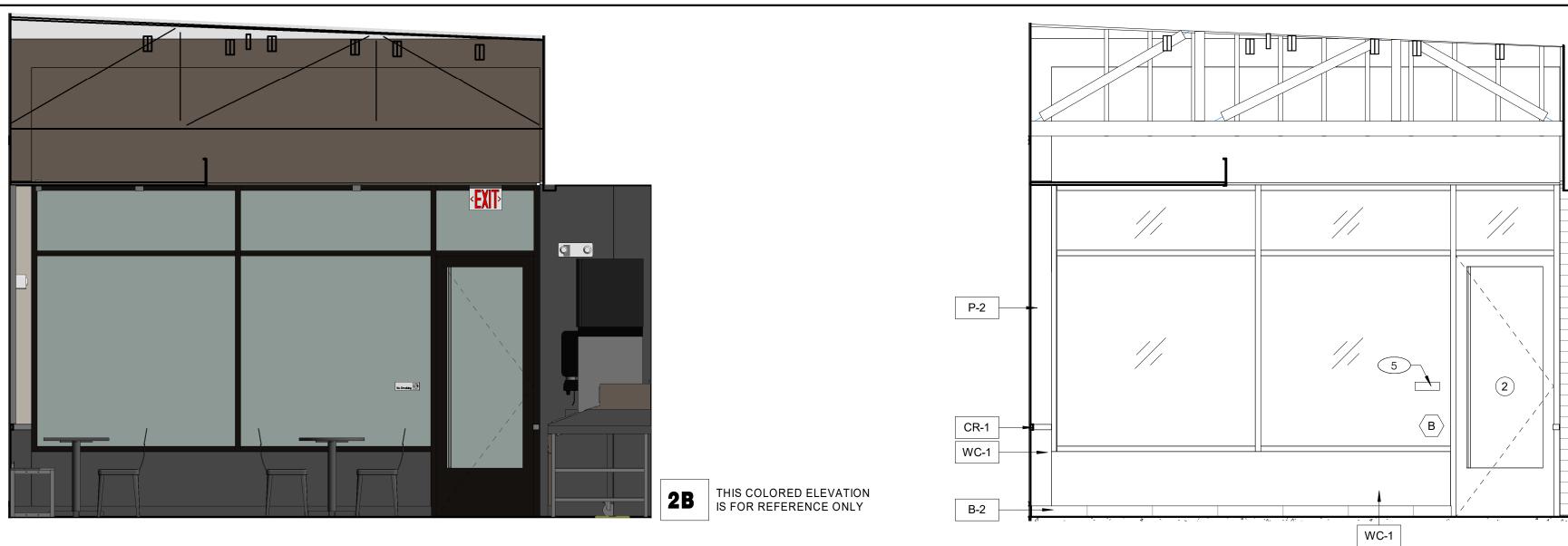
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GPD GR

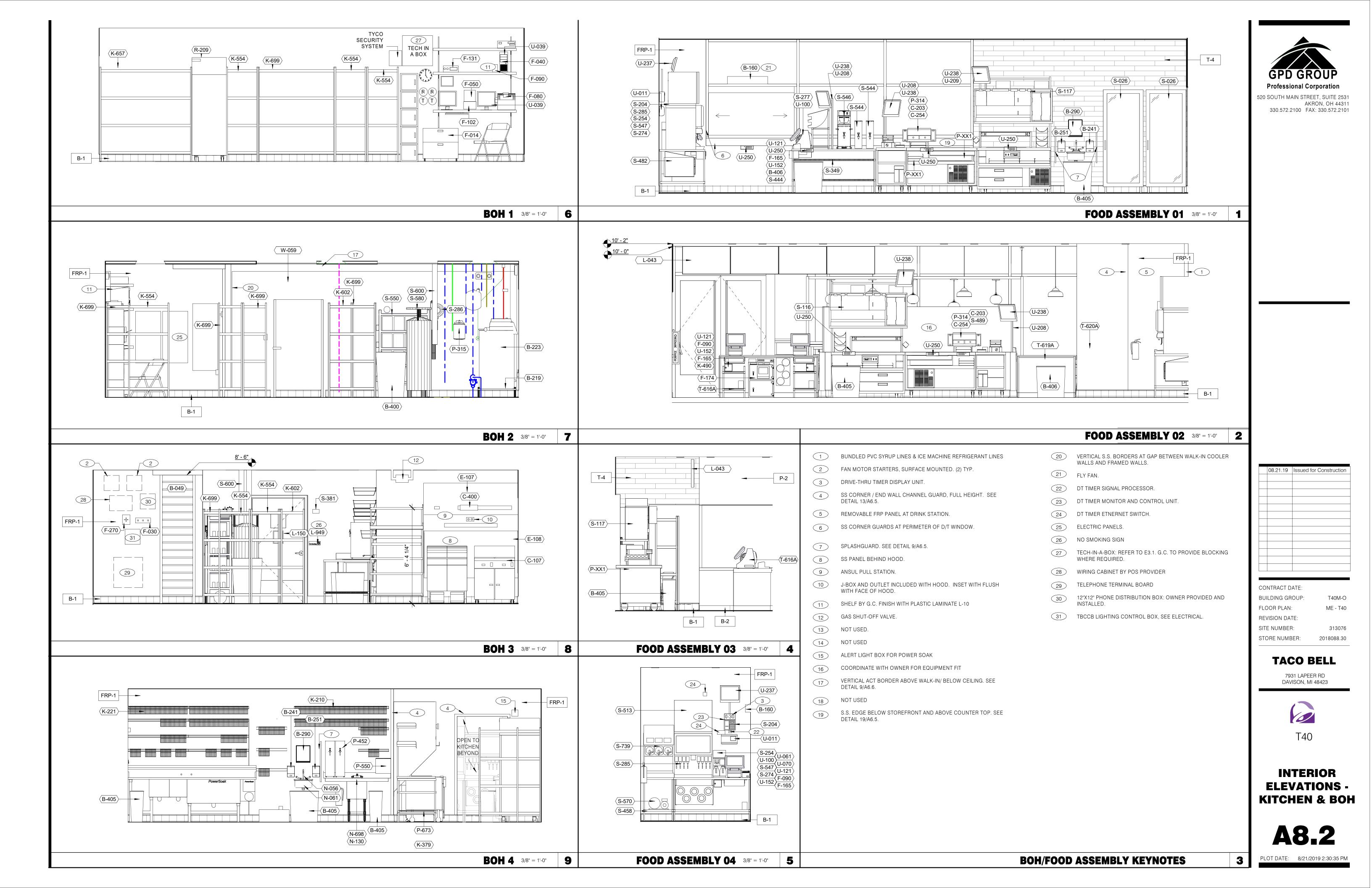
**Professional Corporation** 

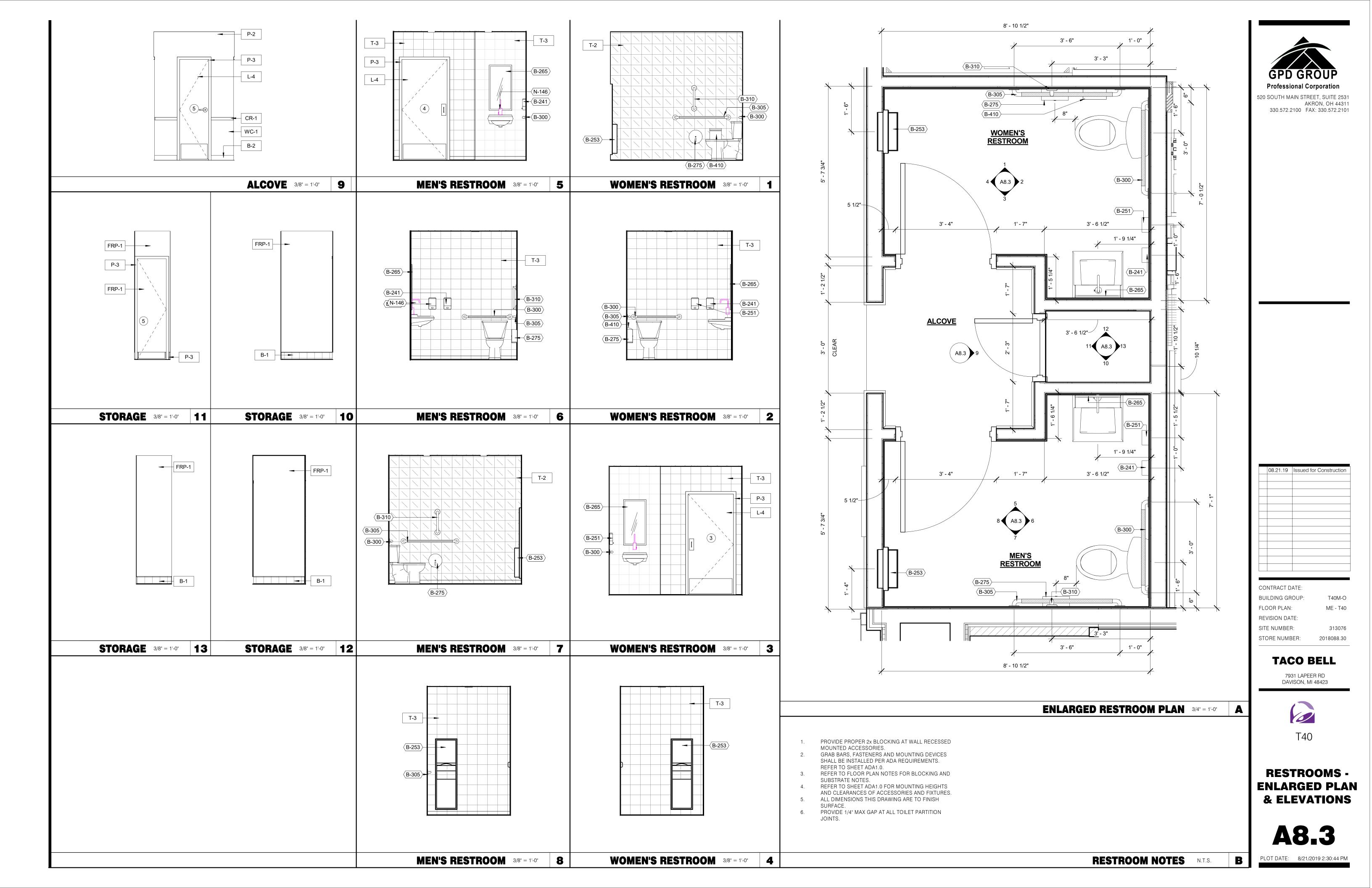


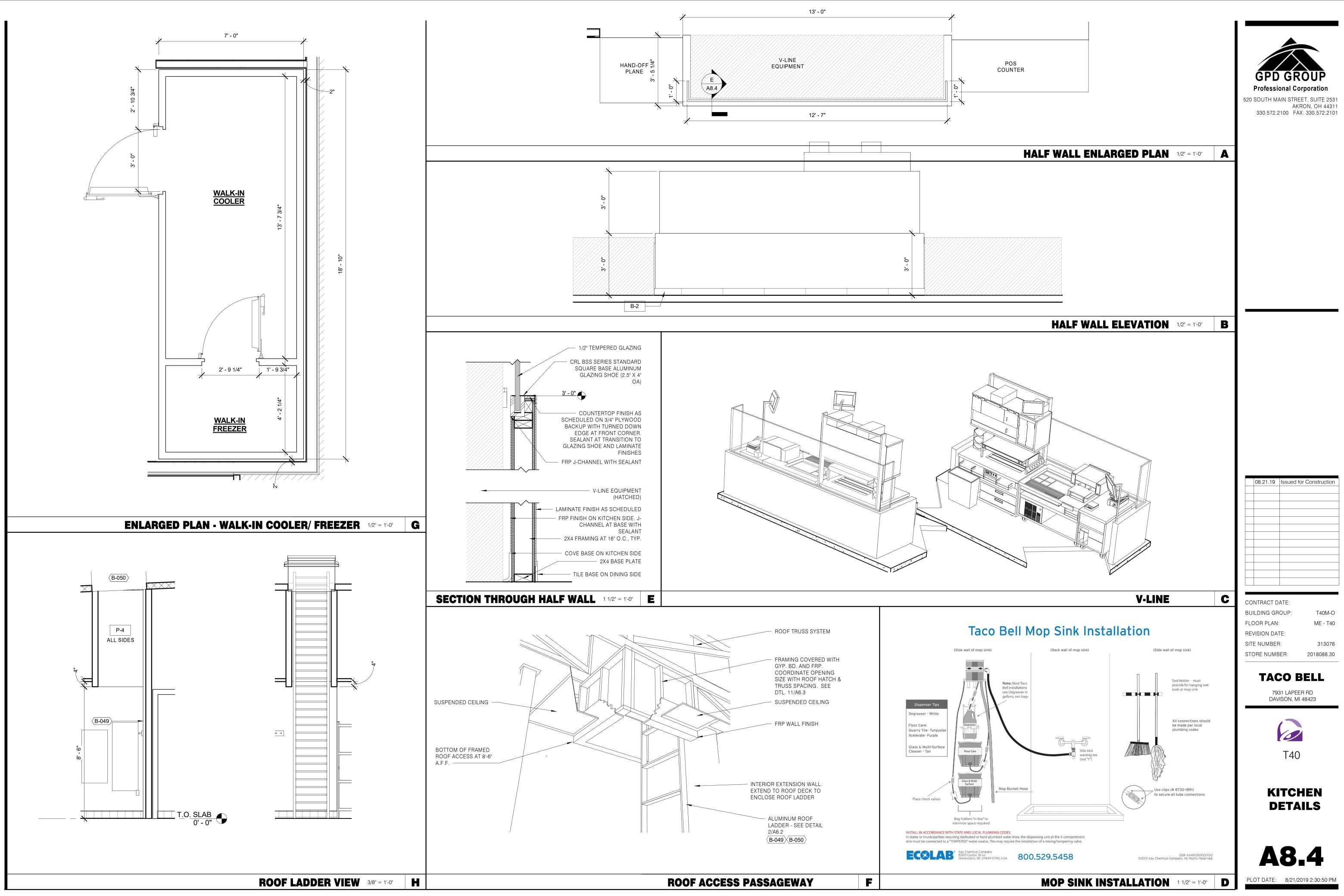


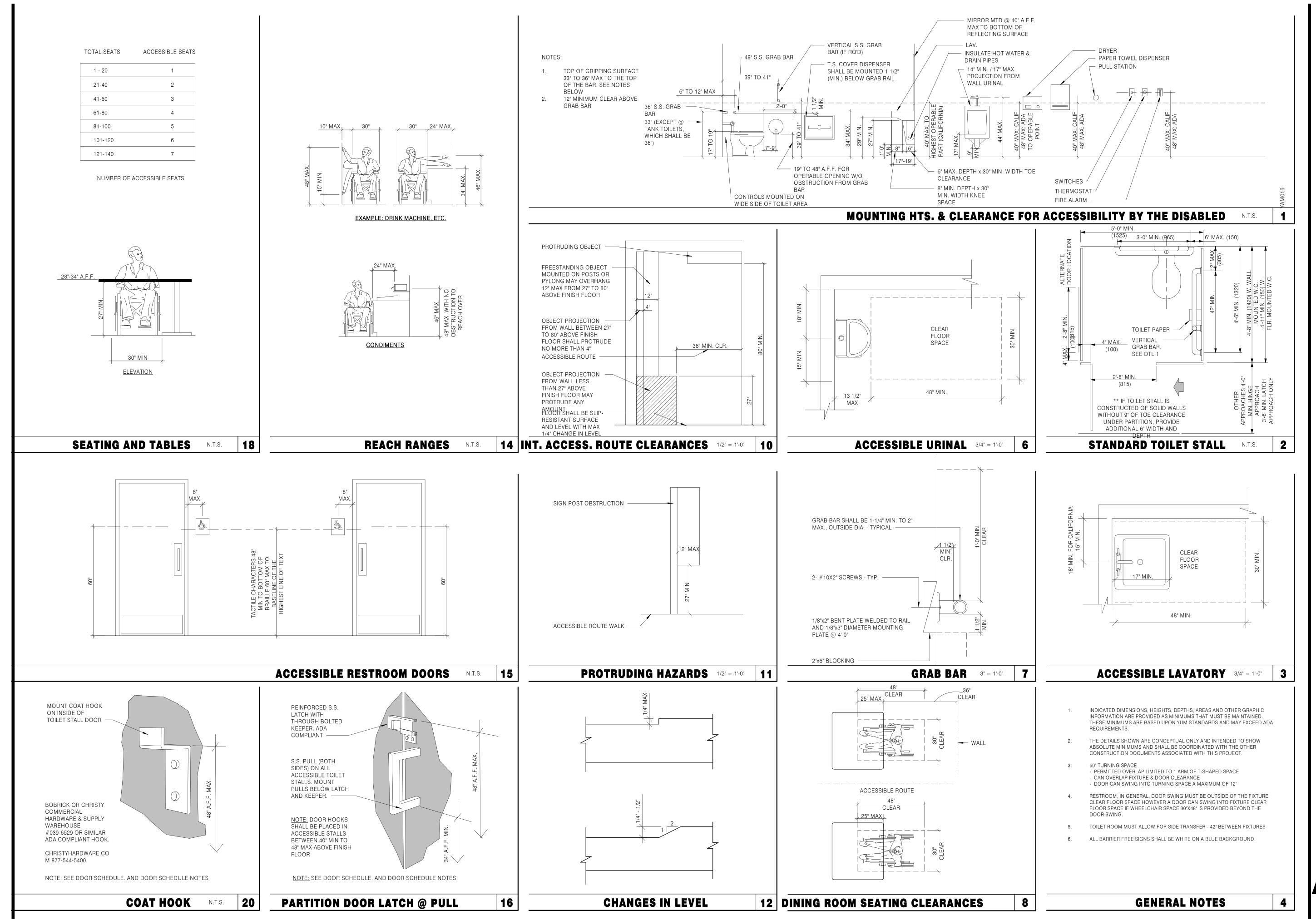


		<b>GPD GROUP</b> Professional Corporation
		520 SOUTH MAIN STREET, SUITE 2531 AKRON, OH 44311 330.572.2100 FAX: 330.572.2101
<b>1B</b> THIS COLORED ELEVATION IS FOR REFERENCE ONLY		
		08.21.19 Issued for Construction
1		
1A		
		CONTRACT DATE:
	<b>DINING</b> 3/8" = 1'-0"	BUILDING GROUP: T40M-O FLOOR PLAN: ME - T40
		REVISION DATE: SITE NUMBER: 313076 STORE NUMBER: 2018088.30
		TACO BELL
		7931 LAPEER RD DAVISON, MI 48423
		T40
T-4		
		INTERIOR ELEVATIONS -
		DINING
		<b>A8.1</b>
	<b>DINING</b> 3/8" = 1'-0"	PLOT DATE: 8/21/2019 2:30:18 PM

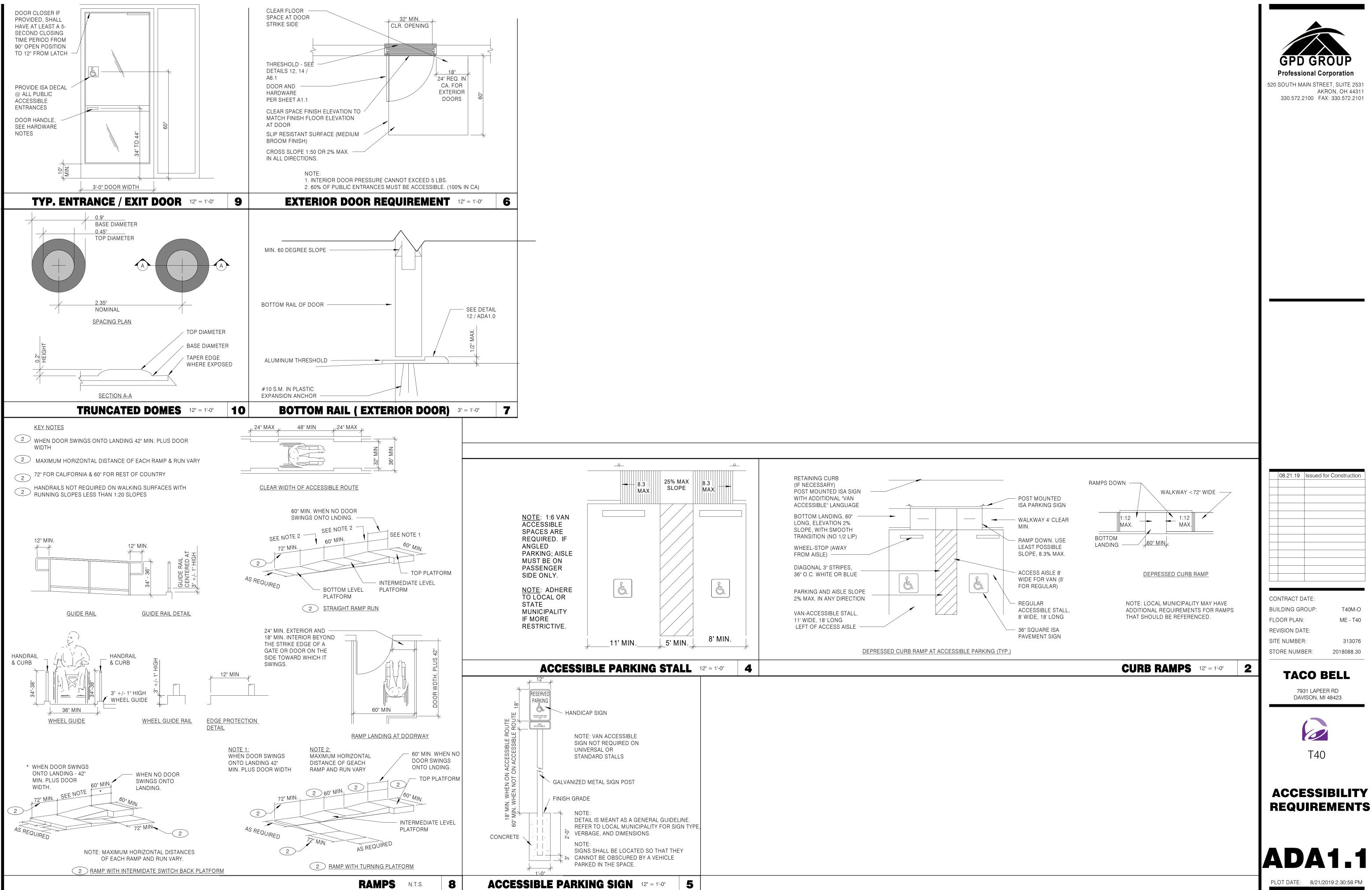








Professional Corporation 520 SOUTH MAIN STREET, SUITE 253 AKRON, OH 44311 330.572.2100 FAX: 330.572.2101 08.21.19 Issued for Construction CONTRACT DATE: BUILDING GROUP: T40M-O FLOOR PLAN: ME - T40 **REVISION DATE:** SITE NUMBER: 313076 STORE NUMBER: 2018088.30 **TACO BELL** 7931 LAPEER RD DAVISON, MI 48423 0 T40 ACCESSIBILITY REQUIREMENTS **ADA1.0** PLOT DATE: 8/21/2019 2:30:54 PM





# **GENERAL:**

- LOCATE, CUT AND FRAME ROOF OPENINGS AS SHOWN FOR ALL HVAC EQUIPMENT AND EXHAUST FANS.
- 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.
- PROVIDE ANY FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILING. З.

### HVAC:

- 1. INSTALLATION SHALL CONFORM TO THE ENERGY CONSERVATION DESIGN MANUAL STANDARDS FOR NEW NONRESIDENTIAL BUILDINGS.
- ALL WORK AND MATERIALS SHALL COMPLY WITH GOVERNING CODES, SAFETY ORDERS AND REGULATIONS.
- OBTAIN AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY GOVERNING AUTHORITIES. E.C. SHALL PROVIDE CONDUIT FOR LINE AND LOW VOLTAGE WIRING, LINE VOLTAGE WIRING SWITCHES, AND FINAL 4.
- CONNECTIONS. 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 LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT,
- CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS.
- FOR INSTALLATION OF RECHARGEABLE REFRIGERANT LINES FROM ICE MACHINE TO CONDENSER ON ROOF, SEE SCOPE OF 6. WORK.
- HVAC UNITS SHALL BE MOUNTED LEVEL ON ROOF CURBS.
- ALL SUPPLY / RETURN DUCTWORK SHALL BE EXTERNALLY INSULATED.
- ALL SUPPLY / RETURN DUCTS SHALL BE RIGID, WITH THE EXCEPTION OF THE LAST 5'-0", WHICH MAY BE FLEX.
- SMOKE DETECTOR SHALL BE INSTALLED IN THE RETURN AIR DUCT, PRIOR TO ANY OUTSIDE AIR CONNECTIONS, AND SHALL 10. DEACTIVATE ROOFTOP UNIT UPON SENSING SMOKE. INCLUDE SMOKE DETECTOR IN THE SUPPLY AIR DUCT ONLY IF REQUIRED
- BY LOCAL CODE. ALL HOOD EXHAUST DUCTS SHALL BE RIGID 16 GA MINIMUM, WELDED DUCT. GRIND ALL WELDS SMOOTH. PROVIDE 3M FIRE 11. BARRIER DUCT WRAP FOR ALL HOOD EXHAUST DUCTS. SEE 10/M4.0.
- ALL BRANCH DUCTS FEEDING INDIVIDUAL DIFFUSERS SHALL HAVE DAMPERS AT TAKEOFFS FOR AIR BALANCING. PROVIDE 12. ACCESS PANELS TO DAMPERS. SEE 4/M4.0.
- ALL UTILITY PIPING FOR RTU'S SHALL RUN UP THROUGH ROOF INSIDE EACH UNIT'S ROOF CURB. 13. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM EXHAUST FANS AND / OR VENTS.
- 14. FINAL HVAC SYSTEM TESTING AND BALANCING SHALL BE PERFORMED BY INDEPENDENT AGENT CONTRACTED DIRECTLY BY 15. 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.

				MECHANICAL NOTES	5
SYMBOL & AE	BBREV.	DESCRIPTION	SYMBOL & ABBREV.	DESCRIPTION	
	SA/SUP	SUPPLY AIR (RISE/DROP)	A/C, AC	AIR CONDITIONING	
	RA/RET	RETURN AIR DUCT (RISE/DROP)	A.F.F.	ABOVE FINISHED FLOOR	
	EA/EXH	EXHAUST AIR DUCT (RISE/DROP)	BDD	BACK DRAFT DAMPER	
	CD/SR	CEILING DIFFUSER/SUPPLY REGISTER	СВ	CIRCUIT BREAKER	
		(ARROWHEAD REPRESENTS NUMBER OF THROW)	CLG.	CEILING	
Ø	RR/RG	RETURN REGISTER/GRILLE	CONN.	CONNECT/CONNECTION	
	ER/EG	EXHAUST REGISTER/GRILLE	CONT.	CONTINUATION	
	,			CONTRACTOR	
	50	RECTANGULAR DUCT ELBOW WITH TURNING VANES	CFM	CUBIC FEET PER MINUTE	
■ ,	FC	FLEXIBLE CONNECTION	DET.	DETAIL	
	MCD	MANUAL VOLUME DAMPER	DISC.	DISCONNECT	
- + +  -	FD	FIRE DAMPER	DTR	DOWN THRU ROOF	
	(L)	DUCT LINING	EF EF	EXHAUST FAN	
		SINGLE LINING DUCT BRANCH TAKEOFF	(E)	EXISTING	
		DUCT TRANSITION (RECTANGULAR TO ROUND)	GA.	GAGE/GAUGE	
	FLEX	FLEXIBLE DUCT	GC	GENERAL CONTRACTOR	
	T-STAT	PROGRAMMABLE THERMOSTAT, PROVIDED WITH LENNOX PACKAGE	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	
(TS)		THERMOSTAT SENSOR (REMOTE), PROVIDED WITH LENNOX PACKAGE	MFR.	MANUFACTURER	
<u>(H)</u>		HUMIDITY SENSOR (REMOTE), PROVIDED WITH LENNOX PACKAGE	MECH.	MECHANICAL	
R	RESET	SMOKE DETECTOR RESET		NEW	
Ø	DIA.	DIAMETER	(N) OA/OSA	OUTSIDE AIR	
X-X 0000		MECHANICAL EQUIPMENT DESIGNATION	OBD	OPPOSED BLADE DAMPER	
			S/S	STAINLESS STEEL	
				TYPICAL	
			UON	UNLESS OTHERWISE NOTED	
			UTR		
				UP THRU ROOF	

			FAN DATA					COOLING CAPACITY			HEATING CAPACITY			UNIT ELECT DATA							
	MARK	AREA SERVED	SUPPLY CFM	MIN. O.A. CFM	ESP	HP	RPM	NOMINAL TONS	MIN CAP (MBH) TOT/SEN	MIN EER	INPUT STAGE (MBH)	OUTPUT (MBH)	HEATING STAGES	AFUE %	VOLTS/ PH	MCA (A)	MOCP (A)	WEIGHT (LBS.)	MANUF.	MODEL	NOTES
GREEN	RTU-1	DINING	2400	600	1.0"	2.0	-	6	72.0/54.0	12.0	108	87	2	81	208/3	35	50	918	LENNOX	LGH072H4BM1Y	1,2,3,4,5,6
	RTU-2	KITCHEN	4400	950	1.0"	3.0	970	12.5	145.2/100.2	12.3	240	192	2	80	208/3	66	80	1431	LENNOX	LGH152U4EH1Y	1,2,3,4,5,6

SCHEDULE NOTES:

- 1. LISTED CAPACITY IS THE STANDARD UNIT'S GROSS COOLING CAPACITY AT 80 DEG. F. DB / 67 DEG. F. WB EAT AND 95 DEG. F. AMBIENT. OUTDOOR DESIGN CONDITION. SUMMER 88 DEG. F. & 73 DEG. F. WB. WINTER -2 DEG. F. (ARI STANDARD CONDITIONS). THERMOSTAT SHALL BE PROGRAMMED FOR 73 DEG. F IN SUMMER AND 68 DEG. F IN WINTER WITH 2 DEG ADJ. FUNCTION UP OR DOWN. THE UNOCCUPIED TEMP SHALL BE SET TO THE STORE SCHEDULE AND 60 DEG. 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., MODULATING ECONOMIZER, CIRCUIT BREAKER WITH SINGLE POINT WIRING, HAIL GUARD, AND FACTORY FABRICATED, KNOCK DOWN ROOF CURB.
- 4. SPECIFIED UNIT INCLUDES FACTORY INSTALLED HOT GAS REHEAT OPTION (WHERE REQUIRED) INCLUDING REMOTE MOUNTED TEMPERATURE AND HUMIDITY SENSORS AS INDICATED ON THE DRAWINGS. 5. SPECIFIED UNIT INCLUDES SUPPLY AIR TEMPERING CONTROL
- 6. SPECIFIED RTUS SHALL BE SUPPLIED WITH OVERSIZED INDOOR FAN MOTOR AND EVAPORATOR MOTOR.

 _										
_										
			FAN D	ATA						
GREEN	Mark	CFM	ESP	RPM	HP	VOLTS/PH	DRIVE TYPE	MANUFACTURER	MODEL	NOTES
	EF-1	1050	0.8	1292	1/2	120/1	DIRECT	STRATOVENT	#SVDU50HFA	1,3,5,6,7,8,10
	EF-2	300	0.375	1025	1/4	120/1	DIRECT	STRATOVENT	#SVDR30HFA	2,4,7,8,9,10,1

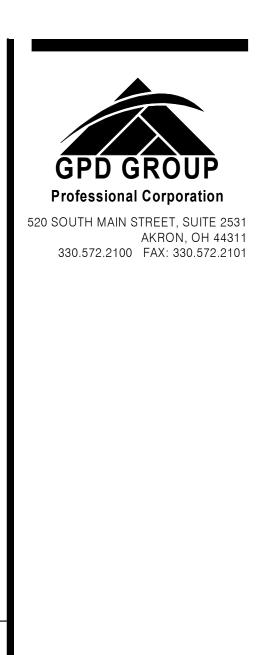
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			FACE SIZE OR	(NO.) & AIR							
MARK	QUANTITY	NECK SIZE	GRID SIZE	PATTERN	TYPE	MAX FLOW (CFM)	MOUNTING	MATERIAL	MANUFACTURER	MODEL NUMBER	REMARKS
E-1	2	8"Ø	12x12	-	EXHAUST	200	SURFACE	ALUMINUM	METAL-AIRE / TITUS	CC5 / 50F	FRN SQR TO RND ADAPTER
E-2	1	8"Ø	12x12	-	EXHAUST	200	SURFACE	ALUMINUM	METAL-AIRE / TITUS	CC5 / 50F	FRN SQR TO RND ADAPTER
R-1	4	22x22	24x24	-	RETURN	2200	LAY-IN	ALUMINUM	METAL-AIRE / TITUS	CC5-FB-TB / 50FF	FULLY REMOVABLE FACE
S-1	7	SEE PLANS	24x24	(2)4W/(2)3W	SUPPLY	500	LAY-IN	ALUMINUM	METAL-AIRE / TITUS	5000-6 / TDC-AA	FRN SQR TO RND ADAPTER
S-2	3	6"Ø	14x14	HORIZ	SUPPLY	250	SURFACE	ALUMINUM	METAL-AIRE / TITUS	5000-1 / TDC-AA	FRN SQR TO RND ADAPTER
S-3	3	12x6	18x6	VERT	SUPPLY	400	SURFACE	ALUMINUM	TITUS	301RL	SUPPLY GRILLE WITH SINGLE DEFLECTION
S-4	5	SEE PLANS	24x24	HORIZ	SUPPLY	700	LAY-IN	ALUMINUM	METAL-AIRE / TITUS	RZMCDST	PLASTIC MODULAR CORE

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

ITEM
EF-1
EF-2
RTU-1
RTU-2
TOTAL

NOTE:



	HVAC UNIT SCHEDULE	1
REMA 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	NRKS: UL 762 LISTED (GREASE) UL 705 LISTED (HEAT OR STEAM) FLAT ROOF CURB, 19.5" X 19.5" X 26"H, VENTED FLAT ROOF CURB, 19.5" X 19.5" X 14"H GREASE CUP WITH DRAIN FACTORY ATTACHED HINGES WEATHERPROOF PRE-WIRED DISCONNECT SWITCH PROVIDE PRE-WIRED SOLID STATE SPEED CONTROLLER GRAVITY BACKDRAFT DAMPER PROVIDED BY OWNER WITH HOOD PACKAGE PRVIDED WITH DAMPER TRAY	

PPLY AND EXHAUST FAN SCHE	DULE
---------------------------	------

AIR DEVICE SCHEDULE

	OA	RA	SA	EA	PRESSURE
				1050	-1050
				300	-300
	600	1800	2400		+600
2	950	3450	4400		+950
_	1550	5250	6800	1350	+200

THE OUTSIDE PERCENTAGE OF TOTAL SUPPLY AIR IS 25.0% FOR RTU-1 AND 21.6% FOR RTU-2.

08.21.19 Issued for Constru	uction				
CONTRACT DATE:					
BUILDING GROUP: GROUND-UP					

2

FLOOR PLAN:	ME - T40
REVISION DATE:	
SITE NUMBER:	313076
STORE NUMBER:	2018088.30



7931 LAPEER RD DAVISON, MI 48423



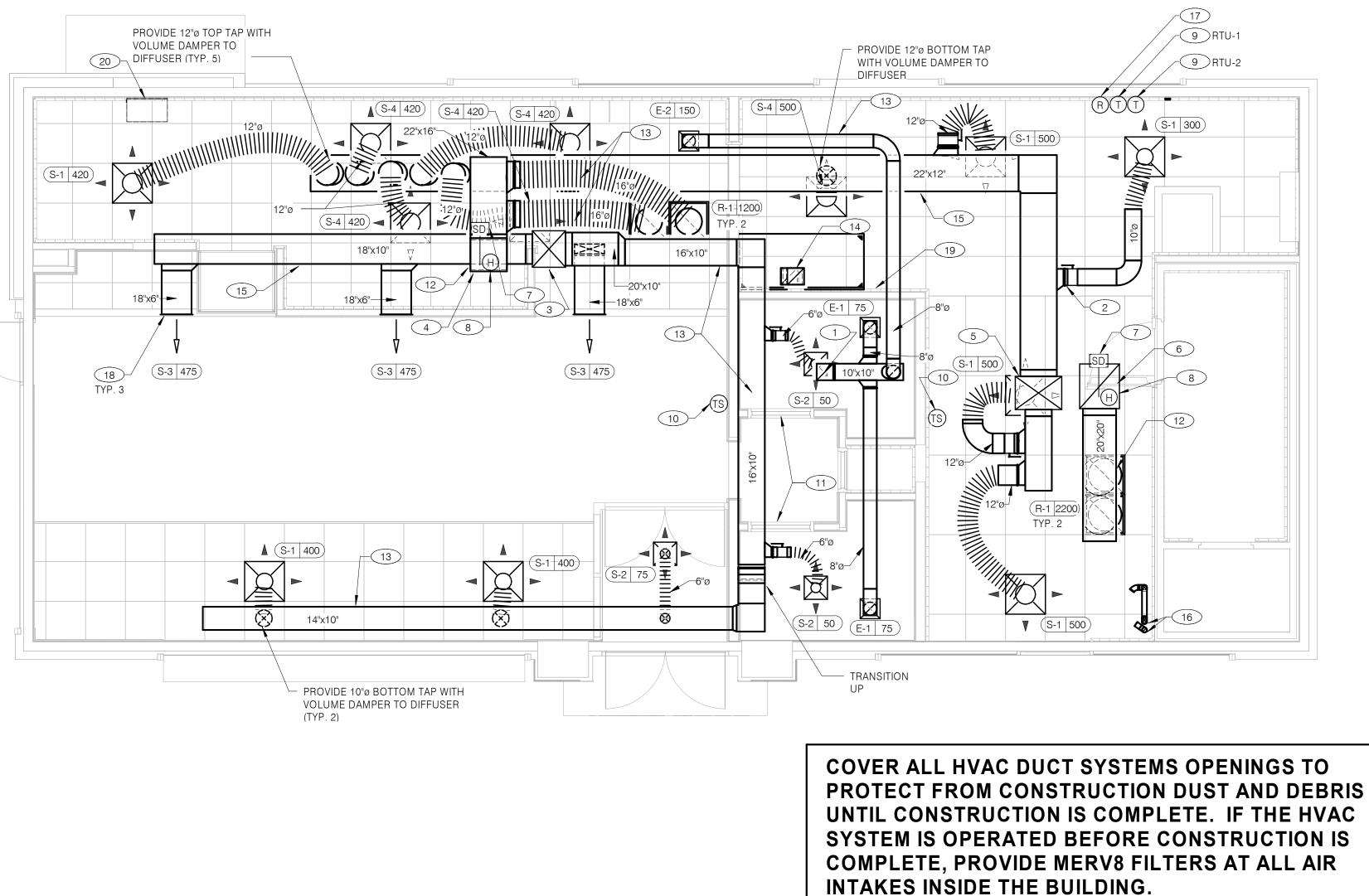


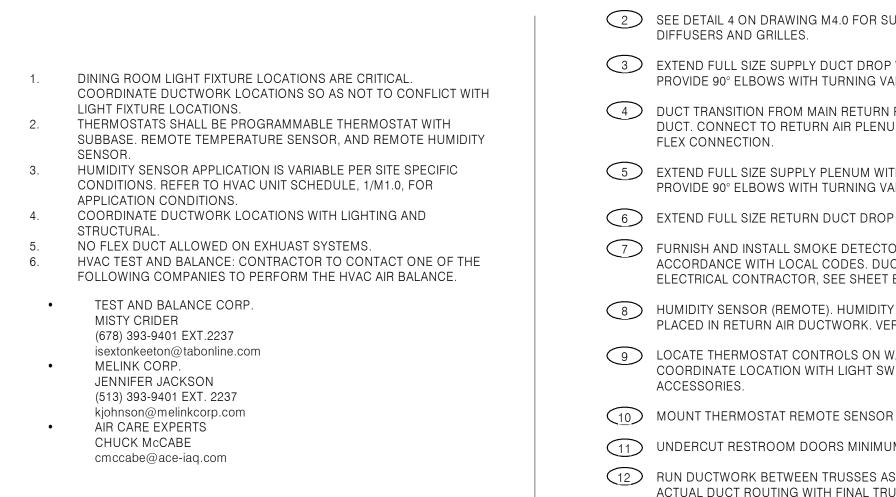


# **AIR BALANCE SCHEDULE CFM**

4

3





С

- 1) 10x10 EXHAUST AIR DUCT UP TO EF-2.
- 2 SEE DETAIL 4 ON DRAWING M4.0 FOR SUPPLY AIR TAKE-OFF TO CEILING
- 3 EXTEND FULL SIZE SUPPLY DUCT DROP WITH FLEX CONNECTION TO RTU-1. PROVIDE 90° ELBOWS WITH TURNING VANES.
- 4 DUCT TRANSITION FROM MAIN RETURN PLENUM TO 22"X18" RETURN AIR DUCT. CONNECT TO RETURN AIR PLENUM AT ROOFTOP UNIT RTU-1 WITH
- 5 EXTEND FULL SIZE SUPPLY PLENUM WITH FLEX CONNECTION TO RTU-2. PROVIDE 90° ELBOWS WITH TURNING VANES AND SPLITTER DAMPERS.
- 6 EXTEND FULL SIZE RETURN DUCT DROP WITH FLEX CONNECTION TO RTU-2.
- 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 HUMIDITY SENSOR (REMOTE). HUMIDITY SENSOR LOCATION SHALL BE PLACED IN RETURN AIR DUCTWORK. VERIFY EXACT LOCATION.
- 9 LOCATE THERMOSTAT CONTROLS ON WALL IN OFFICE AT 48" A.F.F. COORDINATE LOCATION WITH LIGHT SWITCHES AND OTHER WALL MOUNTED
- (10) MOUNT THERMOSTAT REMOTE SENSOR AT 60" A.F.F.
- (11) UNDERCUT RESTROOM DOORS MINIMUM 3/4" FOR MAKE-UP AIR.
- 12 RUN DUCTWORK BETWEEN TRUSSES AS HIGH AS POSSIBLE. COORDINATE ACTUAL DUCT ROUTING WITH FINAL TRUSS SPACING AND LOCATIONS.



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

- (13) RUN DUCT THROUGH OPEN WEBBING OF ROOF TRUSSES (WHERE POSSIBLE). COORDINATE WITH TRUSS DESIGN PRIOR TO DUCTWORK FABRICATION.
- 10"x10" EXHAUST AIR DUCT DOWN FROM EF-1 AND TRANSITION TO FIELD CUT EXHAUST CONNECTION AT HOOD. EXHAUST DUCT SHALL BE ROUTED THROUGH TRUSS WEBS TO CONNECT TO HOOD COLLAR, SEE HOOD DETAILS ON DRAWING M3.0. SEE DETAIL 10 ON SHEET M4.0 FOR FIRE PROTECTION OF DUCT WORK. SEE DETAIL 6 ON SHEET M4.0 FOR EXHAUST DUCT TRANSITION.
- (15) RUN MAIN SUPPLY DUCT UNDER BOTTOM OF TRUSS. COORDINATE ACTUAL DUCT ROUTING WITH FINAL CEILING HEIGHT.
- (16) FURNISH AND INSTALL 3" PVC WATER HEATER INTAKE AND FLUE VENT TERMINATION ON ROOF. COORDINATE WORK WITH ALL TRADES.
- (17) 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.
- (18) INSTALL SIDE-WALL MOUNTED GRILLE AT APPROXIMATELY 10'-8" A.F.F. CONNECT GRILLE TO SUPPLY DUCT AND PROVIDE WITH VOLUME DAMPER AT CONNECTION PAINT TO MATCH ADJACENT CONDITIONS.
- (19) CONTRACTOR TO INSTALL FIRE SUPPRESSION CABINET ON EXHAUST HOOD. CONTRACTOR TO PROVIDE ALL NECESSARY PIPING, FITTINGS, AND ACCESSORIES TO MAKE FINAL CONNECTION AT HOOD. FIELD VERIFY EXACT LOCATION OF FIRE SUPPRESSION CABINET.
- (20) CONTRACTOR TO PROVIDE AND INSTALL AIR CURTAIN IN LOCATION AS SHOWN ON PLAN. MOUNT AIR CURTAIN ON MULLION DIRECTLY ABOVE SERVICE OPENING DOORS AT DRIVE-THRU WINDOW. PROVIDE BERNER MODEL DTU03-2026A AT 120/1/60. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR MORE DETAILS.

### KEYNOTES - DUCT AND DIFFUSER NTS



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CONTRACT DATE:

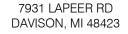
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BUILDING GROUP:	GROUND-UP
FLOOR PLAN:	ME - T40
REVISION DATE:	
SITE NUMBER:	313076
STORE NUMBER:	2018088.30



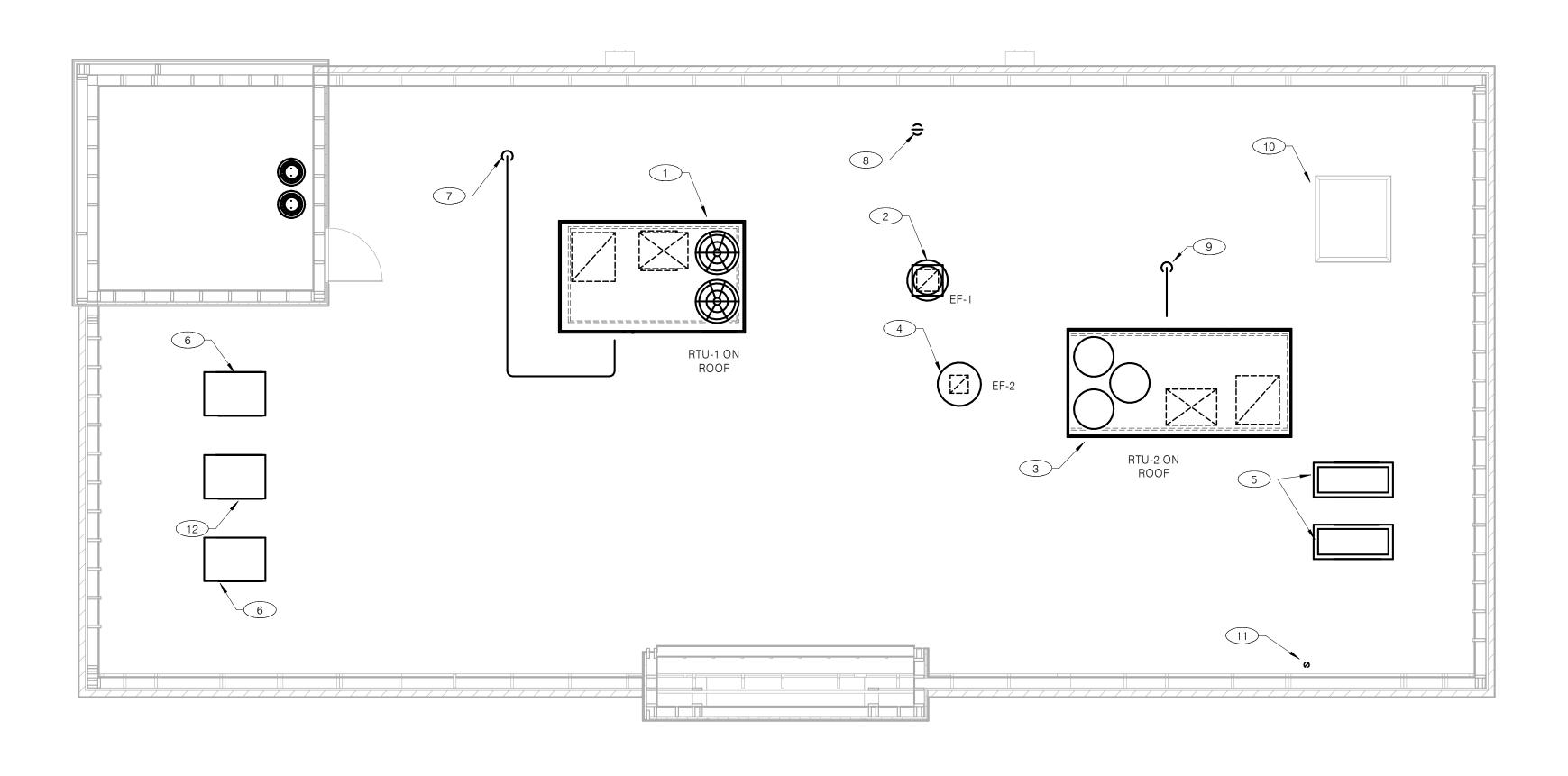
**Taco Bell** 











## COVER ALL HVAC DUCT SYSTEMS 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.

- 1 CONTRACTOR TO PROVIDE AND INSTALL RTU-1 IN LOCATION AS SHOWN ON PLANS. COORDINATE EXACT RTU LOCATION AND DUCT DROPS WITH STRUCTURAL TRUSS LAYOUT. MAINTAIN A MINIMUM 10'-0" CLEARANCE TO ANY EXHAUST TERMINATIONS.
- 2 CONTRACTOR TO PROVIDE AND INSTALL TYPE I EXHAUST FAN (EF-1) IN LOCATION AS SHOWN PLANS. CONNECT 10"x10" EXHAUST DUCT FROM EXHAUST HOOD UP TO EF-1 ON ROOF. COORDINATION EXHAUST DUCT ROUTING WITH STRUCTURAL TRUSS LAYOUT.
- 3 CONTRACTOR TO PROVIDE AND INSTALL RTU-2 IN LOCATION AS SHOWN ON PLANS. COORDINATE EXACT RTU LOCATION AND DUCT DROPS WITH STRUCTURAL TRUSS LAYOUT. MAINTAIN A MINIMUM 10'-0" CLEARANCE TO ANY EXHAUST TERMINATIONS.
- 4 CONTRACTOR TO PROVIDE AND INSTALL TYPE II EXHAUST FAN (EF-2) IN LOCATION AS SHOWN PLANS. CONNECT 10"x10" EXHAUST DUCT FROM RESTROOM EXHAUST GRILLES TO EF-2 ON ROOF. COORDINATION EXHAUST DUCT ROUTING WITH STRUCTURAL TRUSS LAYOUT.
- 5 CONDENSING UNIT SERVING WALK-IN COOLER/FREEZER. COORDINATE EXACT LOCATION WITH ROOF LAYOUT. CONTRACTOR TO FIELD VERIFY EXACT REFRIGERANT PIPING. PROVIDE ALL NECESSARY PIPING ACCESSORIES INCLUDING PIPING INSULATION AND INSTALL ON APPROPRIATE EQUIPMENT SUPPORTS.
- 6 CONDENSING UNIT SERVING ICE MAKER. COORDINATE EXACT LOCATION WITH ROOF LAYOUT. CONTRACTOR TO FIELD VERIFY EXACT REFRIGERANT PIPING. PROVIDE ALL NECESSARY PIPING ACCESSORIES INCLUDING PIPING INSULATION AND INSTALL ON APPROPRIATE EQUIPMENT SUPPORTS.
- 7 1" GAS PIPING UP THROUGH ROOF FROM BELOW. CONTRACTOR TO ROUTE GAS PIPING ON ROOF AND PROVIDE PIPING SUPPORTS. CONNECT TO RTU AND PROVIDE WITH SHUT-OFF VALVE AND DIRT LEG.
- 8 PLUMBING VENT, REFERENCE 1/P2.0.



		<b>MECHANICAL ROOF PLAN</b> 1/4" = 1'-0" <b>A</b>
	9	1-1/4" GAS PIPING UP THROUGH ROOF FROM BELOW. CONTRACTOR TO ROUTE GAS PIPING ON ROOF AND PROVIDE PIPING SUPPORTS. CONNECT TO RTU AND PROVIDE WITH SHUT-OFF VALVE AND DIRT LEG.
AS -1	10	ROOF HATCH. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
	11	MANUFACTURER'S CONCENTRIC TERMINATION VENT KIT SERVING HOT WATER HEATER BELOW. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. ENSURE AT LEAST A 10'-0" DISTANCE BETWEEN ANY OUTDOOR AIR INTAKES.
AS	(12)	CONDENSING UNIT SERVING FROZEN BEVERAGE MACHINE. COORDINATE EXACT LOCATION WITH ROOF LAYOUT. CONTRACTOR TO FIELD VERIFY EXACT REFRIGERANT PIPING. PROVIDE ALL NECESSARY PIPING ACCESSORIES INCLUDING PIPING INSULATION AND INSTALL ON APPROPRIATE EQUIPMENT SUPPORTS.
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		KEYNOTES - ROOF PLAN NTS B



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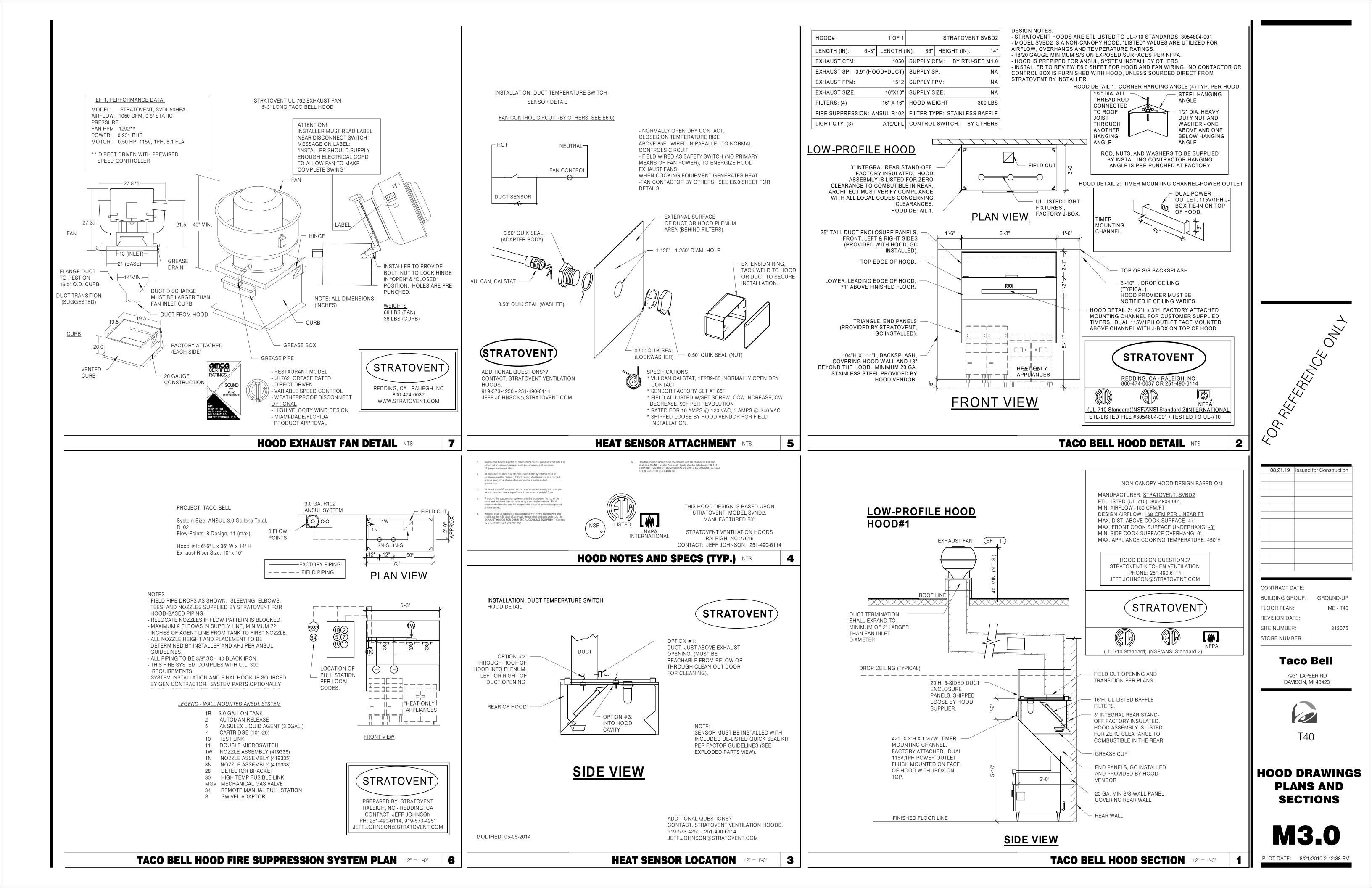
CONTRACT DATE:BUILDING GROUP:GROUND-UPFLOOR PLAN:ME - T40REVISION DATE:SITE NUMBER:SITE NUMBER:313076STORE NUMBER:2018088.30

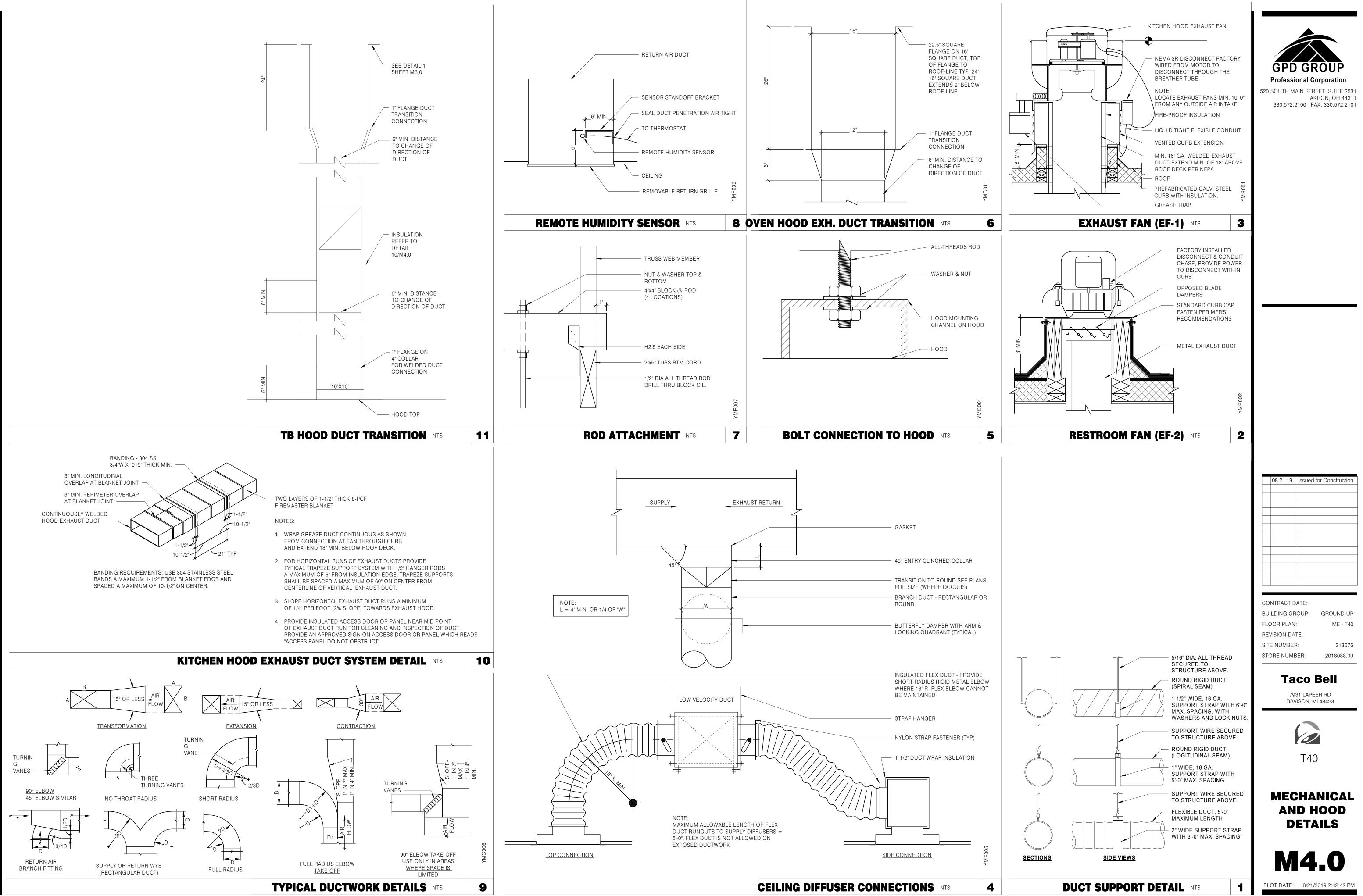












- 1. SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
- 2. ALL DRAWN WATER & GAS LINES SHALL BE KEPT TIGHT TO THE UNDERSIDE OF EQUIPMENT & SECURED IN PLACE.
- 3. VERIFY THE LOCATION OF THE SANITARY SEWER ON THE SITE PLAN AND SHALL REVISE THE SEWER SYSTEM AS REQUIRED.
- 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 SINK 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.

GENERAL NOTES - PLUMBING NTS

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1. IF GEN POWER SOAK SINK USED THEN ADD A MIXING VALVE TO SINK ABOVE SUSPENDED CEILING.

SYMBOLS	ABBREV.	DESCRIPTION
	YB	YARD BOX
	RD	ROOF DRAIN
	AP	ACCESS PANEL
	VTR	VENT THRU ROOF
	VBF	VENT BELOW FLOOR
	UTR	UP THRU ROOF
	VCP	VITRIFIED CLAY PIPE
	CI	CAST IRON
	ACP	ASBESTOS CEMENT PIPE
	(N)	NEW
	(E)	EXISTING
	FD	FLOOR DRAIN
0	HD	HUB DRAIN
	OFD	OVERFLOW DRAIN
$\bowtie$	FS	FLOOR SINK
	GL	GAS LINE
	A.F.F.	ABOVE FINISHED FLOOR
(X-X 000)		PLUMBING EQUIPMENT DESIGNATION
		KITCHEN EQUIPMENT NUMBER: REFER TO KITCHEN EQUIPMENT DRAWINGS FOR DESCRIPTION.
— ·SS· —	SAN	SOIL OR WASTE (SANITARY)/WASTE STUB
— GW —	GW	SOIL OR WASTE (GREASE WASTE)/WASTE STUB
— G —	G	GAS / GAS STUB
	CW	COLD WATER/ CW STUB
	HW	HOT WATER / HW STUB
	HWR	HOT WATER RETURN
<b></b> V- <b>-</b> -	V	VENT
CD	CD	CONDENSATE DRAIN
	FCO	FLOOR CLEANOUT OR CLEANOUT TO GRADE
<b> </b>	wco	WALL CLEANOUT
—FW —	FW	FILTERED WATER
—тw —	TW	PREMIXED TEMPERATURE WATER
—RO	RO	REVERSE OSMOSIS
+	НВ	HOSE BIBB
	SOV	SHUT-OFF GATE VALVE
<u> </u>	SOC	SHUT-OFF GAS COCK
	CV	CHECK VALVE
<b>Å</b>	PTRV	PRESS-TEMPERATURE RELIEF VALVE
	BV	BALL VALVE
	CW	COLD WATER BELOW GRADE
O	ECO	EXTERIOR CLEAN OUT
	BFP	BACK FLOW PREVENTER
	FU	FIXTURE UNIT
		PUMP

## **PLUMBING LI**

	NO.	DR	DRAIN		COLD WATER		HOT WATER	
FIXTURE		D.F.U.	TOTAL D.F.U.	F.U. C.W.	TOTAL C.W.	F.U. H.W.	TOTAL H.W.	
WATER CLOSET	2	4	8	2	4			
URINAL	0	4		4				
LAVATORY	2	1	2	1.5	3	1.5	3	
HAND SINK	2	2	4	1.5	3	1.5	3	
PREP SINK *	1			3	3	3	3	
3 - COMPARTMENT SINK *	1			3	3	3	3	
HOSE BIBB/WATER FILTRATION UNIT				2.5:1/1	3.5			
FLOOR DRAIN		2	18					
HUB DRAIN		2	4					
FLOOR SINK		6	30					
MOP SINK		3	3	2.25	2.25	2.25	2.25	
RETHERMALIZER *						1.0	1.0	
TOTAL			69		21.75		15.25	
REQUIREMENTS: DRAIN: SAN 2	21.75 FU 7 DFU 22 DFU 5.25 FU			US US	SE 1-1/2" SE 4" SA SE 4" SA SE 1-1/4"	NITARY NITARY	(MIN) (MIN)	
BASED ON 2015 IPC (COMBINATION DRAIN & VENT). *FIXTURE HAS INDIRECT WASTE TO FLOOR SIN								

KEYNOTES NTS

EGEND	NTS	3

	WATER	WASTE	TEMP'D	HOT	COLD		SOIL OR			
	FU	FU	WATER	WATER	WATER	VENT	WASTE	Count	FIXTURE	ITEM
REDUCED P CONSTRUCT STRAINER.	1				VERIFY			1	BACKFLOW PREVENTER	BFP-1
CAST IRON ( SCORIATED								4	EXTERIOR CLEANOUT	ECO-1
EXPANSION CAPACITY.					3/4"			1	EXPANSION TANK	ET-1
CAST IRON O								6	FLOOR CLEANOUT	FCO-1
PVC FLOOR PVC DRAIN F		2				2"	3"	9	FLOOR DRAIN	FD-1
PVC 12" SQL STRAINER A FLUSH WITH		6				2"	4"	4	FLOOR SINK	FS-1
CAST IRON 1 STRAINER A		6				2"	3"	1	FLOOR SINK	FS-2
PRECAST 1,9 SITE PLAN F							4"	1	PRECAST GREASE INTERCEPTOR	GI-1
NON-FREEZI CASING AND	2.5/1				3/4"			2	HOSE BIBB	HB-1
CAST IRON I GASKETED (		2				2"	3"	2	HUB DRAIN	HD-1
WHITE VITRE CENTERS, W STRAINER. E INSTALLED E COMPLIANT.	1.5	1	1/2"		1/2"	1-1/2"	1-1/4"	2	LAVATORY	L-1
REVERSE O						1/2"		1	REVERSE OSMOSIS	RO-1
HOT WATER CONTROLS. EQUAL. REF				3/4"				1	HOT WATER RECIRC. PUMP	RP-1
STAINLESS S STAINLESS. AERATOR.	1.5	2	1/2"		1/2"	1-1/2"	1-1/2"	2	HAND SINK	S-1
RECESSED I WITH VACUL	2.25	3		1/2"	1/2"	2"	3"	1	MOP SINK	S-2
SINK, FAUCE OPTION FOR	3				1/2"	1/2"	INDIRECT	1	3-COMP SINK	S-3
SINK, FAUCE	3			1/2"	1/2"		INDIRECT		PREP SINK	S-4
WHITE VITRE ASSISTED) T FRONT SEAT TANK: SLOA VALVES SHA CORRESPON REQUIREME	2	4			1/2"	2"	4"	2	WATER CLOSET	WC-1
CAST IRON ( BRASS PLUC								4	WALL CLEANOUT	WCO-1
GAS FIRED V STORAGE TA ASME RTD T ELECTRONIC ACCOUNT P				1-1/4"	1-1/4"			1	WATER HEATER	WH-1

PLUMBING FIXTURE COUNT NTS 2

Comments ESSURE ZONE BACKFLOW PREVENTER, CAST BRONZE ON WITHQUARTER TURN FULL-PORT BALL VALVES AND BRONZE	GPD GROUP
LEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND	Professional Corporation
EAVY CAST IRON COVER. TANK, STEEL, EXPANSION MEMBRANE 150 PSI, 160° F, 12 GALLON	520 SOUTH MAIN STREET, SUITE 2531 AKRON, OH 44311 330.572.2100 FAX: 330.572.2101
LEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND IEAVY CAST IRON COVER.	
DRAIN, 5" DIA. IF PVC OR ABS DRAINS ARE USED, SCHEDULE 80 IPE SHALL BE USED FOR THE FIRST 10'-0" FROM THE DRAIN.	
ARE FLOOR SINK, 8" DEEP, WITH ALUMINUM OR PVC DOME ID LOOSE SET PVC SLOTTED TOP GRATE. SET FLOOR SINK LIP FLOOR TILE.	
2" SQUARE FLOOR SINK, 8" DEEP, WITH ALUMINUM DOME ID NICKEL BRONZE HINGED TOP.	
00 GALLON GREASE INTERCEPTOR WITH SAMPLING BOX. SEE OR EXTERIOR GREASE INTERCEPTOR LOCATION.	
WALL HYDRANT WITH INTEGRAL VACUUM BREAKER, BRONZE NICKEL BRONZE HINGED TOP.	
EEP SEAL P-TRAP WITH FUNNEL, NO-HUB OUTLET AND BRASS LEANOUT PLUG.	
OUS CHINA, WALL HUNG, WITH CONCEALED ARMS SUPPORT, 4" TH INTEGRAL BACKSPLASH, ADA ACCESSIBLE. FLAT GRID RAIDED WATER LINES. FAUCET: FURNISHED BY OWNER AND Y G.C. ELECTRONIC SENSOR TYPE FAUCET. SLOAN SF-2300, ADA SEE 5/P6.0 FOR LAV SUPPORT DETAIL, 0.5 GPM AERATOR. MOSIS FILTER SYSTEM BY OWNER: SEE DETAIL 9/P6.0.	
RECIRCULATION PUMP. PROVIDE WITH 2015 IECC COMPLIANT GPM AT 12 FT. HEAD. BELL AND GOSSETT ECOCIRC 19-16 OR R TO SHEET P3.0 FOR ADDITIONAL INFORMATION.	
TEEL HAND SINK, WALL HUNG, INCLUDES A 6" GOOSENECK AUCET W/FOOT VALVE. BRAIDED WATER LINES, 0.5 GPM	
I SLAB, PROVIDE FD-1 AT CENTERPOINT. FAUCET: T&S #B2465, M BREAKER.	
Γ & DRAIN, GEN IV POWER SOAK STANDARD, GEN III IS AN FRANCHISES. Γ AND DRAIN.	
OUS CHINA FLOOR MOUNTED FLUSHOMETER TANK (PRESSURE PE, ELONGATED BOWL, ADA COMPLIANT, 1.1 GPF, WITH OPEN	
LESS COVER, OLSENITE #95 OR EQUIVALENT. FLUSHOMETER FLLUSHMATE OR EQUAL. PROVIDE TANK COVER LOCKS. FLUSH	
L BE RIGHT HAND OR LEFT HAND AS REQUIRED TO D WITH ACCESS FROM WIDE SIDE OF STALL. VERIFY FLUSH SIDE ITS.	08.21.19 Issued for Construction
LEANOUT TEE WITH INLET/OUTLET SPIGOT AND THREADED WITH STAINLESS STEEL ACCESS COVER.	
ATER HEATER, 95% THERMAL EFF., 120,000 BTUH INPUT, 60 GAL. NK, 138 GPH @ 100 DEG. RISE REC. RATE, 3" PVC FLUE & INTAKE, MP. & PRESS. REL. VALVE, ELECTRONIC IGNITION SYSTEM AND	
CONTROLS. CALL 800-477-1953 OPTION #1 FOR NATIONAL ICE & SERVICE.	
	CONTRACT DATE: BUILDING GROUP: GROUND-UP
	FLOOR PLAN: ME - T40 REVISION DATE:
	SITE NUMBER: 313076
	STORE NUMBER: 2018088.30
	7931 LAPEER RD
	DAVISON, MI 48423
	T40
	SCHEDULES AN NOTES
	P1.0
PLUMBING FIXTURE SCHEDULE NTS 1	PLOT DATE: 8/21/2019 2:42:46 PM



08.21.19	Issued for Construction
 1	1

### CONTRACT DATE:

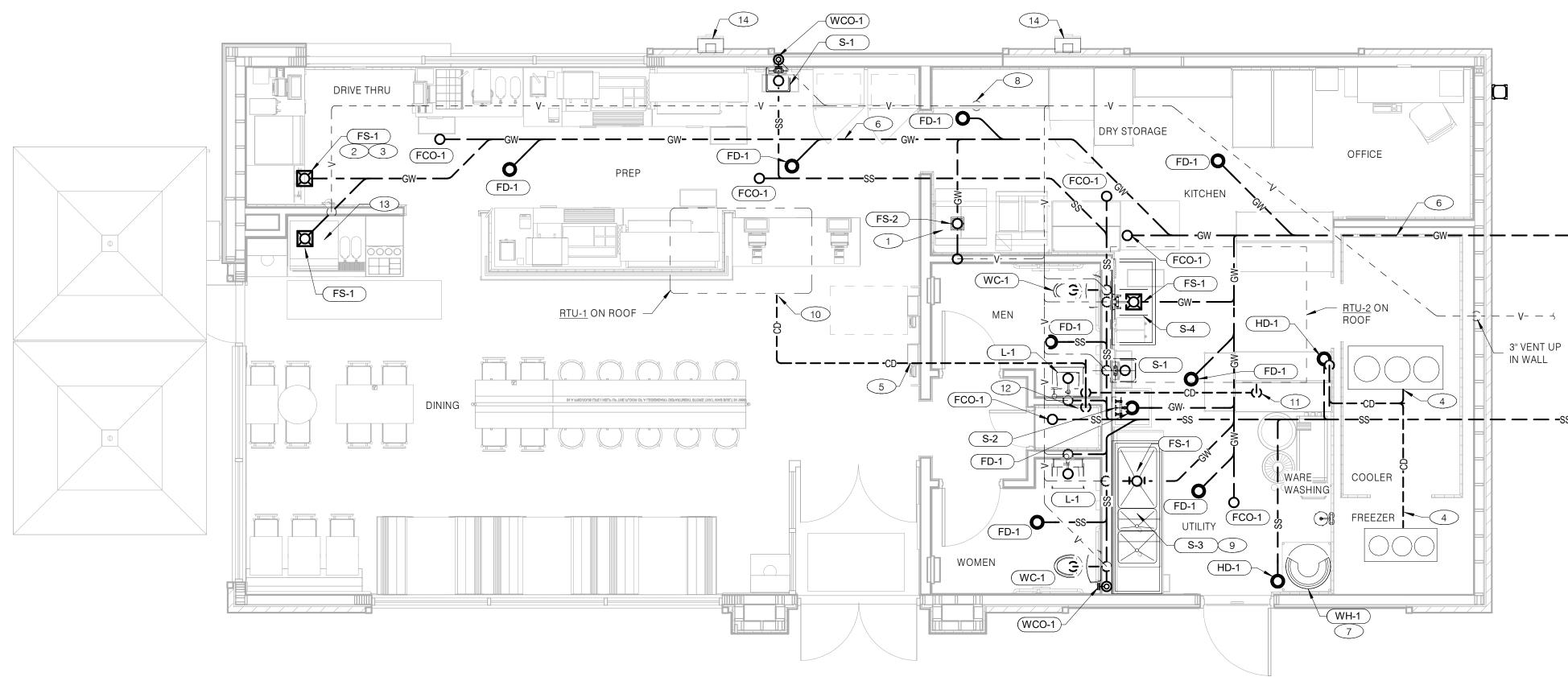
BUILDING GROUP:	GROUND-UP
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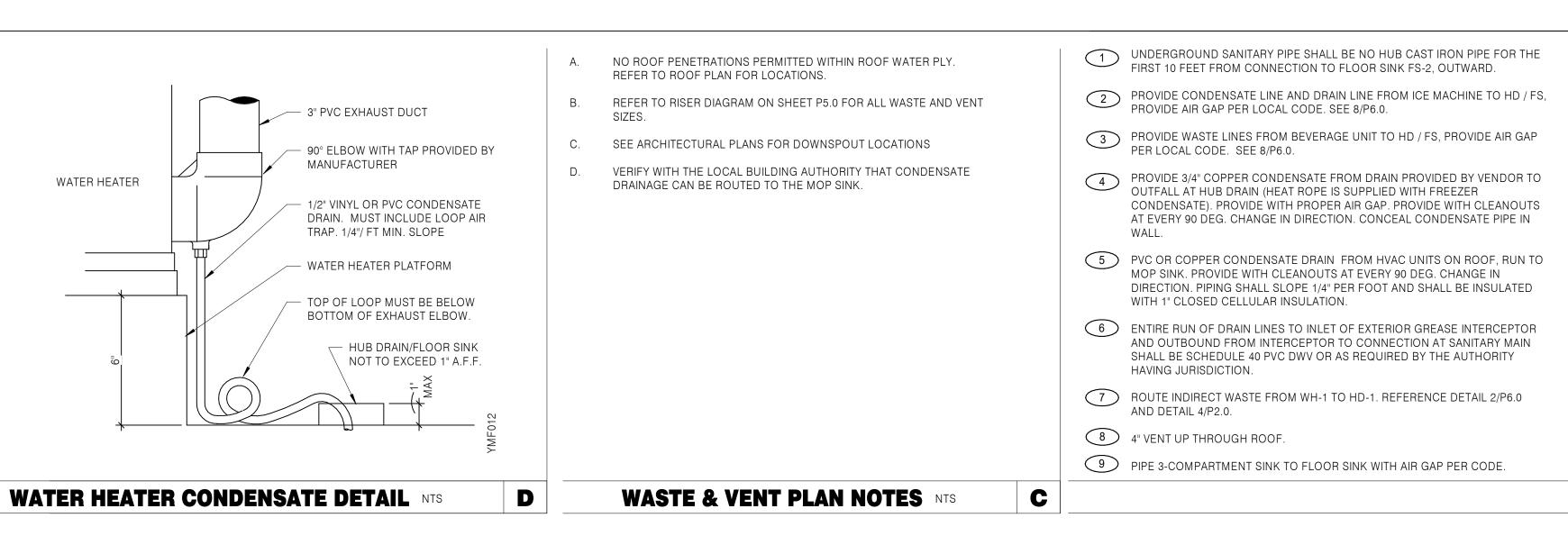


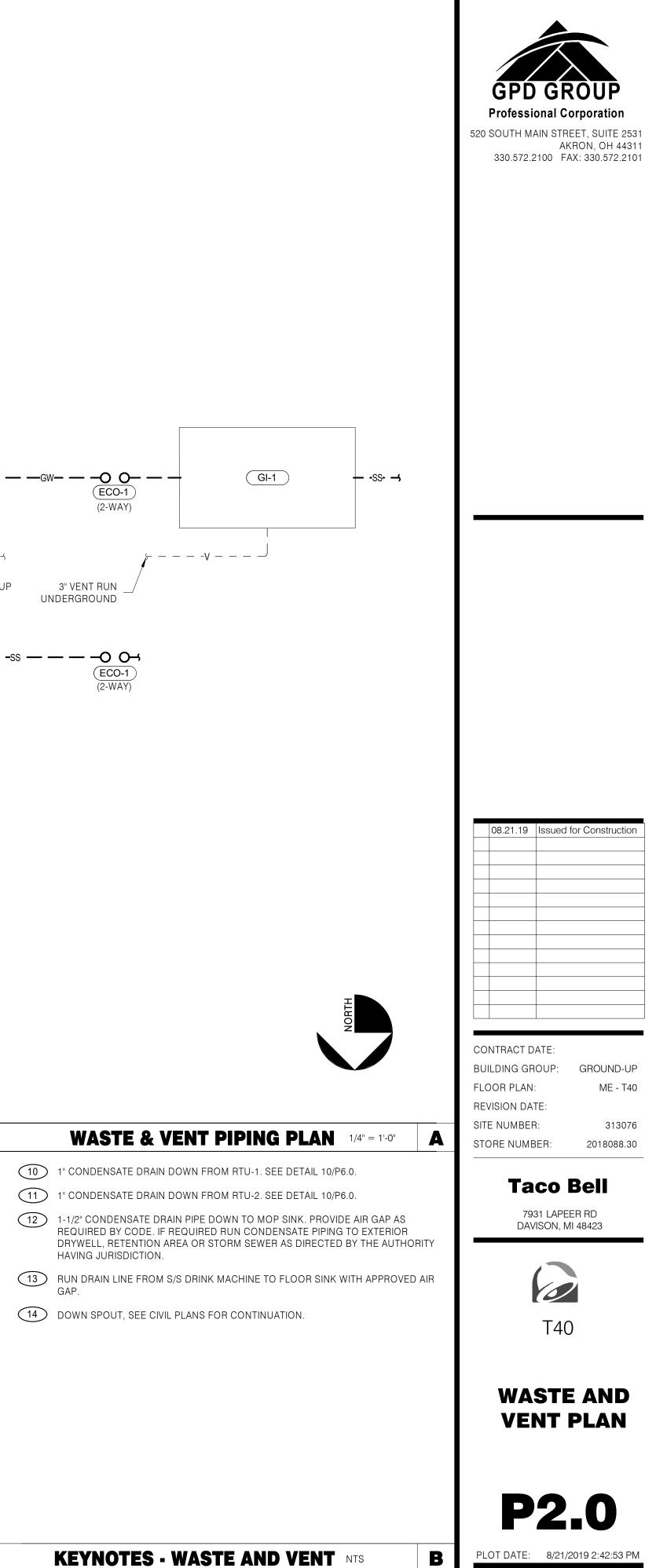


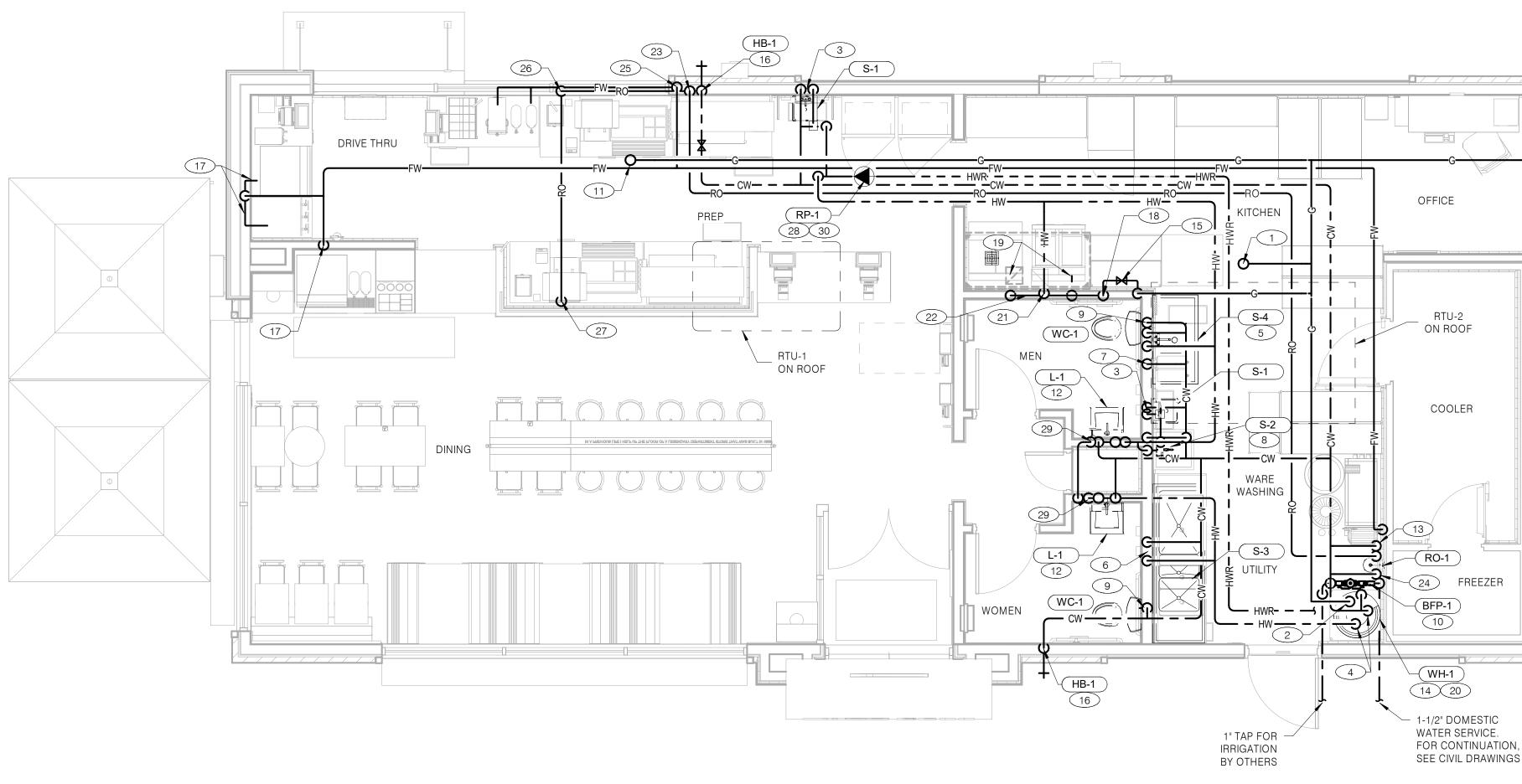








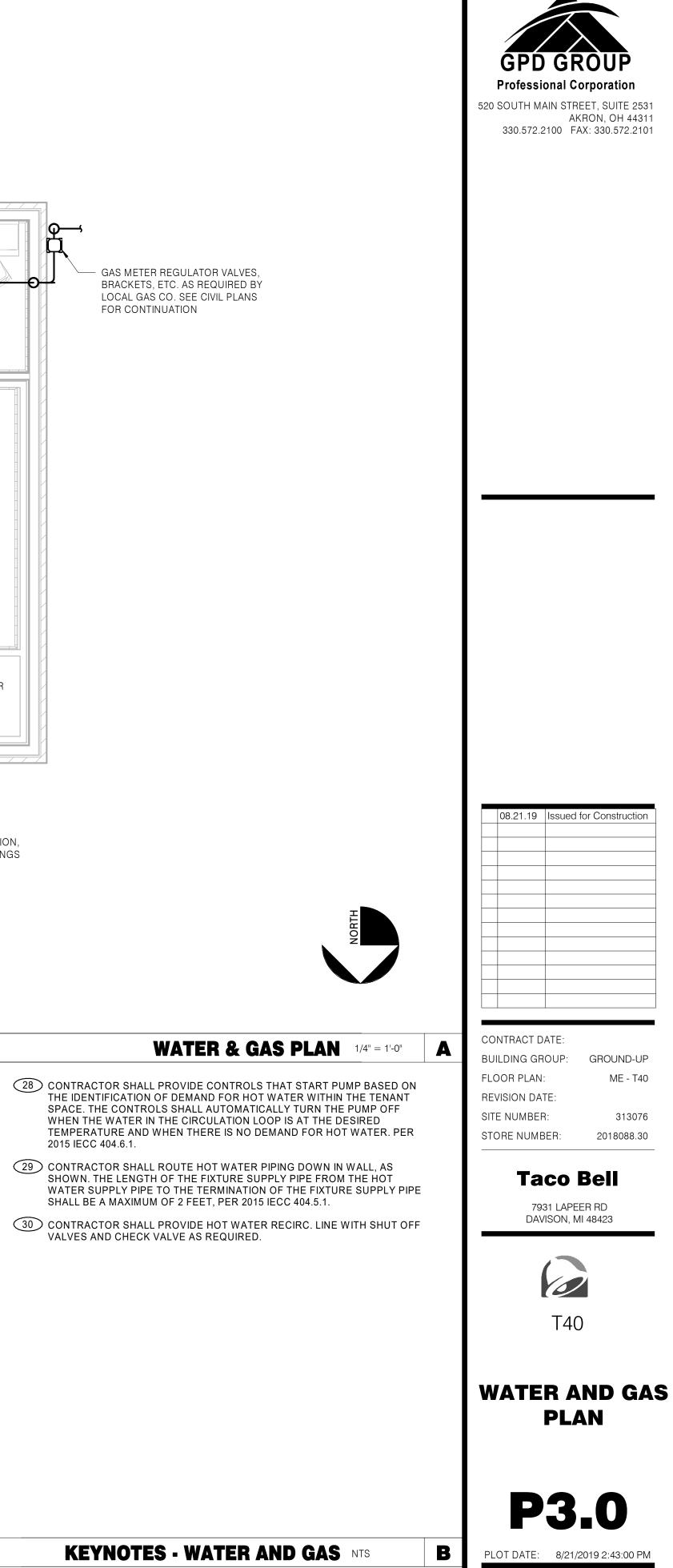


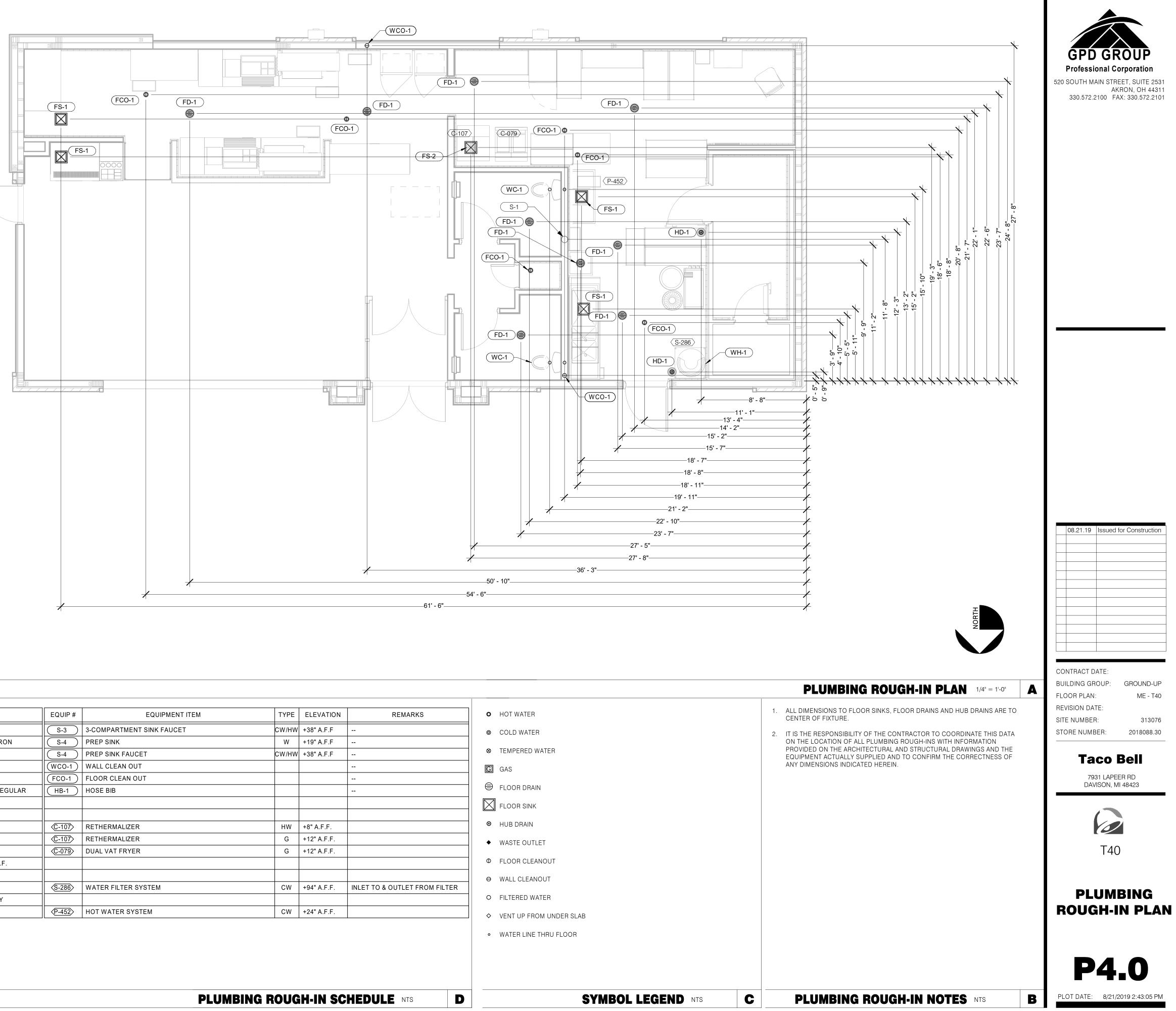


- A. WATER DISTRIBUTION PIPING IS SHOWN ABOVE FINISH CEILING. UNDER SLAB DISTRIBUTION ALLOWED AT CONTRACTOR OPTION. COORDINATE ALL DETAILS.
- B. NO ROOF PENETRATIONS PERMITTED WITHIN THE ROOF "WATER VALLEYS", REFER TO ROOF PLAN FOR LOCATIONS.
- C. REFER TO SHEET P4.0 FOR ROUGH-IN LOCATIONS.
- D. REFER 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 AIRGAP.

$\bigcirc$	1-1/4" GAS UP TO RTU-2 WITH DIRT LEG, GAS COCK, UNION.
2	1" (120 CFH) 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	1-1/4" HOT AND 1-1/4" COLD WATER LINES DOWN TO WATER HEATER.
5	1/2" HOT AND COLD WATER LINES DOWN IN WALL TO PREP SINK.
6	1/2" COLD AND HOT 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 TO WATER FILTER.
8	1/2" COLD AND HOT WATER DOWN IN THE WALL TO THE MOP SINK.
9	3/4" CW DOWN IN WALL TO FLUSH TANK WATER CLOSET .
10	REDUCED PRESSURE BACKFLOW PREVENTER LOCATED PER LOCAL UTILITY REQ'S. PIPE RELIEF TO HUB DRAIN.
	1" GAS UP TO RTU-1 WITH DIRT LEG, GAS COCK, UNION.
(12)	1/2" TEMPERED AND COLD WATER LINES TO SERVE LAVATORY.
13	3/4" CW DOWN ALONG WALL TO WATER FILTER S-286.
14	WATER HEATER (WH-1). PIPE CONDENSATE LINE. T&P DISCHARGE AND DRAIN PAN TO HUB DRAIN. SEE WATER HEATER DETAIL 2/P6.0.
15	EMERGENCY GAS SHUT OFF VALVE LOCATED BELOW CEILING.
16	3/4" CW DOWN IN WALL TO EXTERIOR HOSE BIBB.

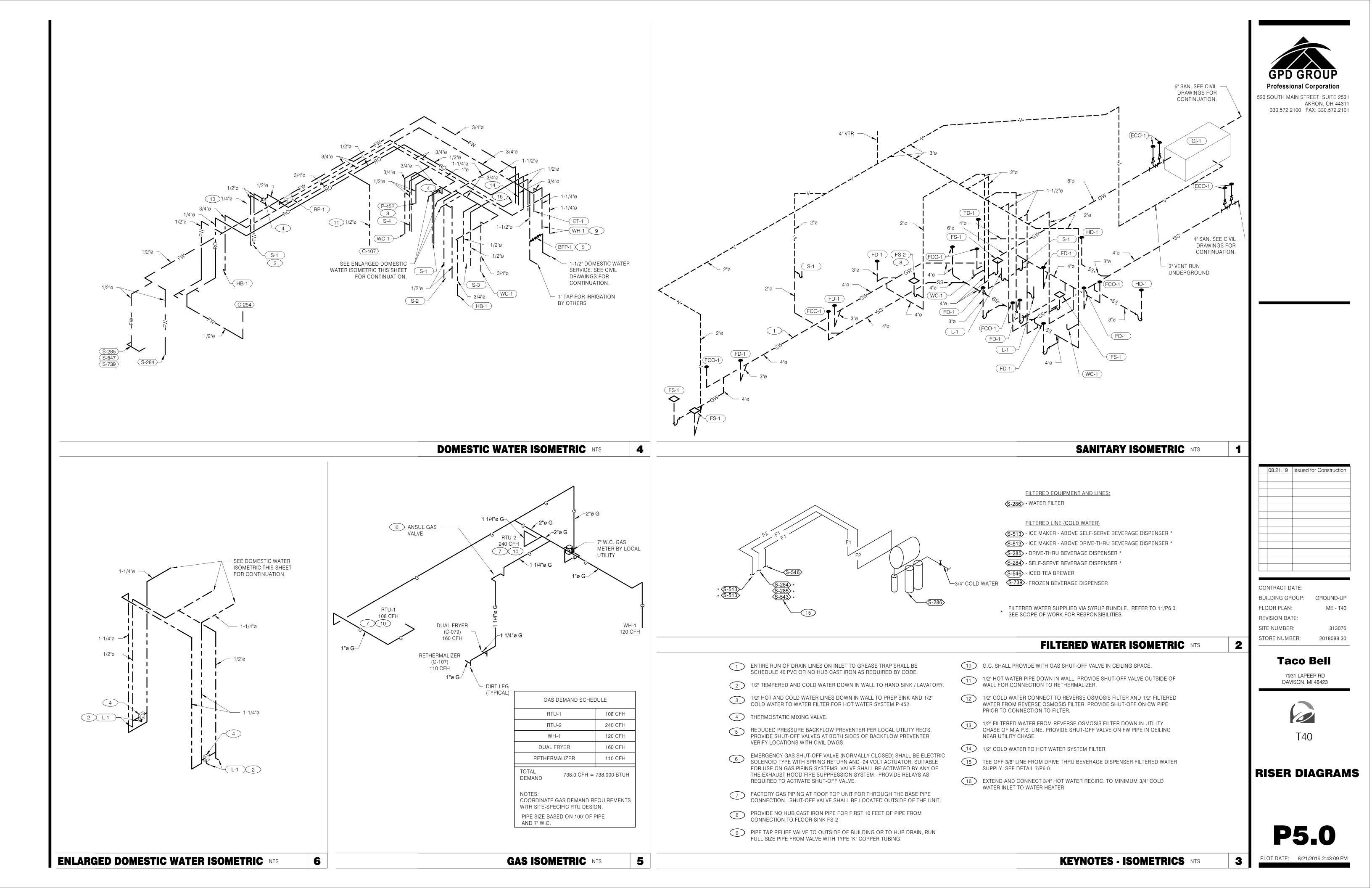
- 17 BUNDLED SYRUP LINES AND FILTERED WATER LINES TO BEVERAGE DISPENSERS S-284 AND S-285, AND FILTERED WATER LINES TO FROZEN BEVERAGE DISPENSER S-739. SEE DRAWINGS A2.0, P5.0 AND 8/P6.0.
- 18 1-1/4" GAS DOWN IN WALL TO TACO BELL COOKING EQUIPMENT. VERTICAL GAS PIPING IN WALL SHALL NOT BE RIGIDLY SECURED AND ADEQUATE PIPE PROTECTION SHALL BE PROVIDED.
- (19) GAS DIRT LEG W/ GAS COCK TO COOKING EQUIPMENT. PROVIDE FLEXIBLE GAS HOSE KIT FOR CONNECTION TO COOKING EQUIPMENT.
- 20 3" PVC EXHAUST AND INTAKE FLUES FROM WATER HEATER, PIPE THROUGH ROOF AS RECOMMENDED BY MANUFACTURER TO LOCATIONS SHOWN ON SHEET M2.0. SEE DETAIL 2/P6.0.
- 21 1/2" HOT WATER DOWN IN WALL TO RETHERMALIZER C-107. 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 C-079 AND C-107.
- 23 1/4" RO WATER PIPE DOWN IN WALL AND ROUTED IN LOW WALL OF DRY PRODUCTION LINE. PROVIDE SHUT-OFF VALVE ON RO PIPING IN CEILING NEAR CHASE.
- 24 1/2" COLD WATER TO REVERSE OSMOSIS FILTER P-315 AND 1/2" FILTER WATER FROM REVERSE OSMOSIS FILTER. PROVIDE SHUT-OFF VALVE ON CW PIPE PRIOR TO CONNECTION TO FILTER.
- 25 1/2" FW WATER PIPE DOWN IN WALL AND ROUTED IN LOW WALL OF DRY PRODUCTION LINE TO BREWERS S-546 AND S-547 AND TEA BREWERS S-544. PROVIDE SHUT-OFF VALVE ON FW PIPING IN CEILING NEAR CHASE.
- 26 ROUTE 1/4" RO DOWN IN WALL BELOW SLAB FOR CHEESEMELTER.
- 27 1/4" RO UP FROM BELOW SLAB TO CHEESEMELTER. PROVIDE SHUT OFF VALVE.

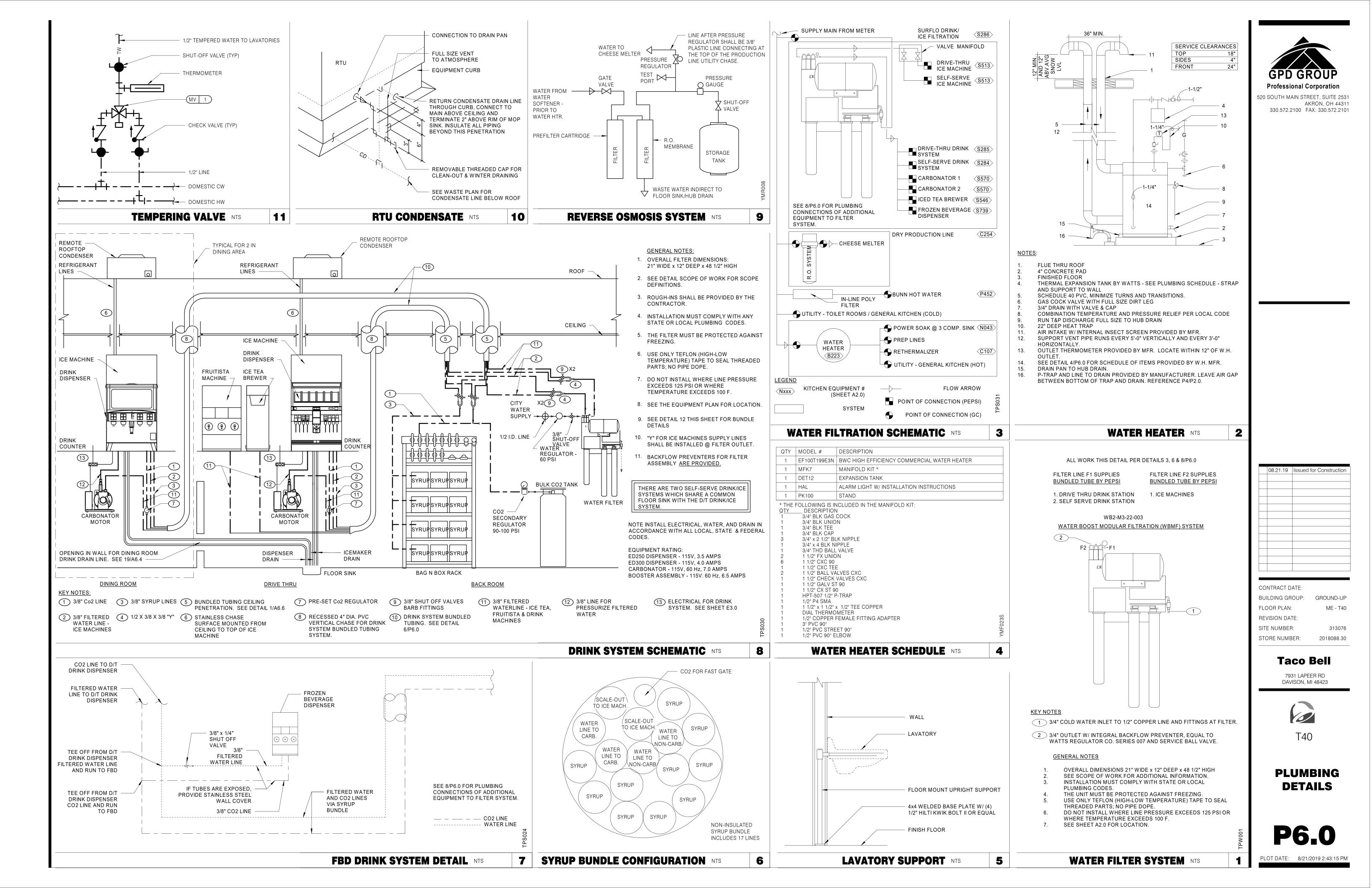


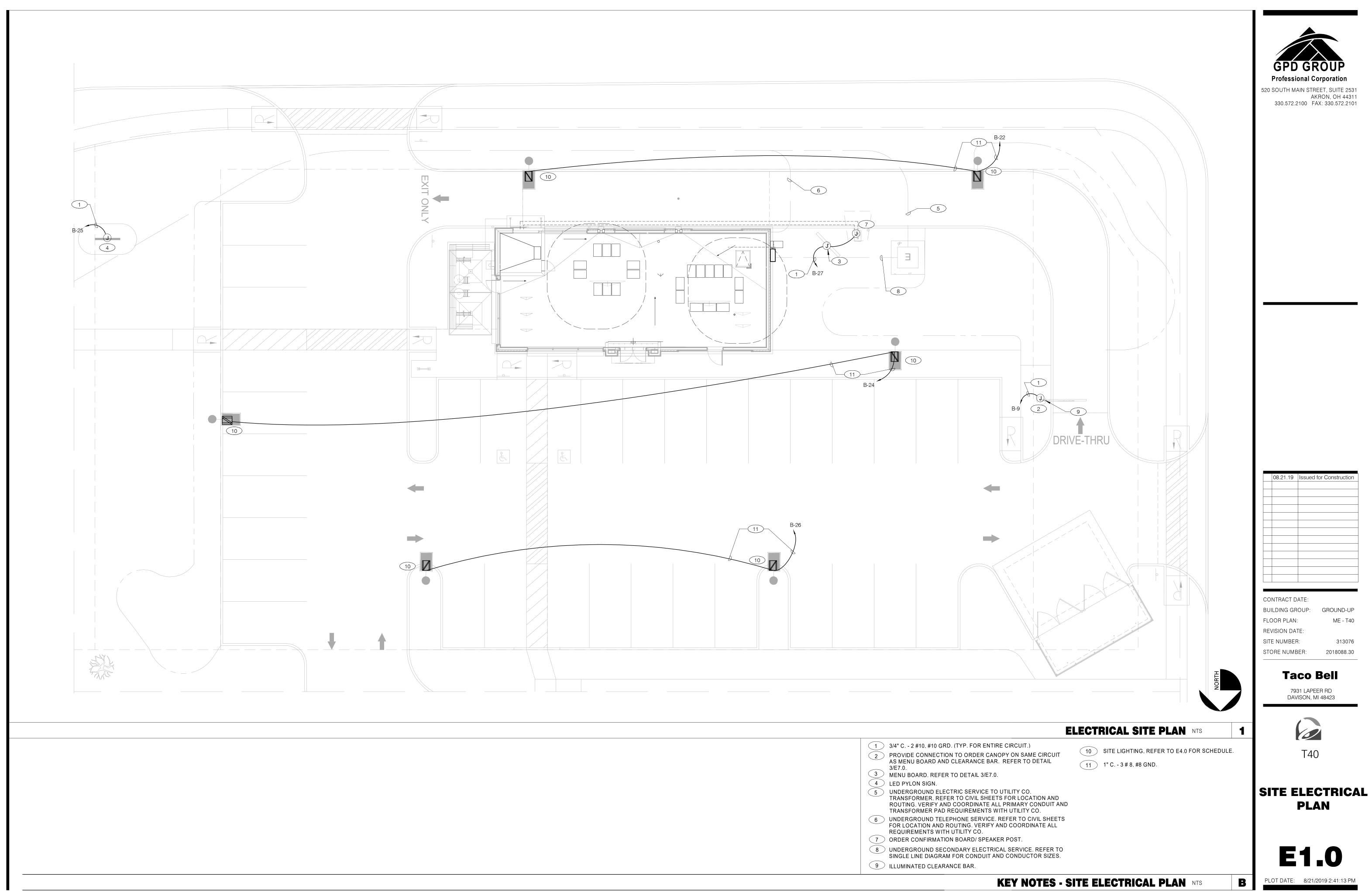


EQUIP #	EQUIPMENT ITEM	TYPE	ELEVATION	REMARKS	EQUIP #	EQ
	FLOOR SINK					3-COMPARTMENT SIN
(FS-1)					<u>S-3</u>	
(FS-2)	FLOOR SINK			EPOXY COATED CAST IRON	<u>S-4</u>	PREP SINK
HD-1	HUB DRAIN				S-4	PREP SINK FAUCET
WH-1	WATER HEATER	CW			WCO-1	WALL CLEAN OUT
WH-1	WATER HEATER	G	+15" A.F.F.		FC0-1	FLOOR CLEAN OUT
WC-1	WATER CLOSET FLUSH VALVE	CW	+29" A.F.F	BOTH HANDICAP AND REGULAR	HB-1	HOSE BIB
L-1	LAVATORY	TW	+20" A.F.F.		C-107>	RETHERMALIZER
L-1	LAVATORY WASTE LINE	W	+16-1/2" A.F.F.		C-107>	RETHERMALIZER
R0-1	REVERSE OSMOSIS	CW	+84" A.F.F		C-079	DUAL VAT FRYER
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		<u>(S-286</u> )	WATER FILTER SYSTE
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		(P-452)	HOT WATER SYSTEM

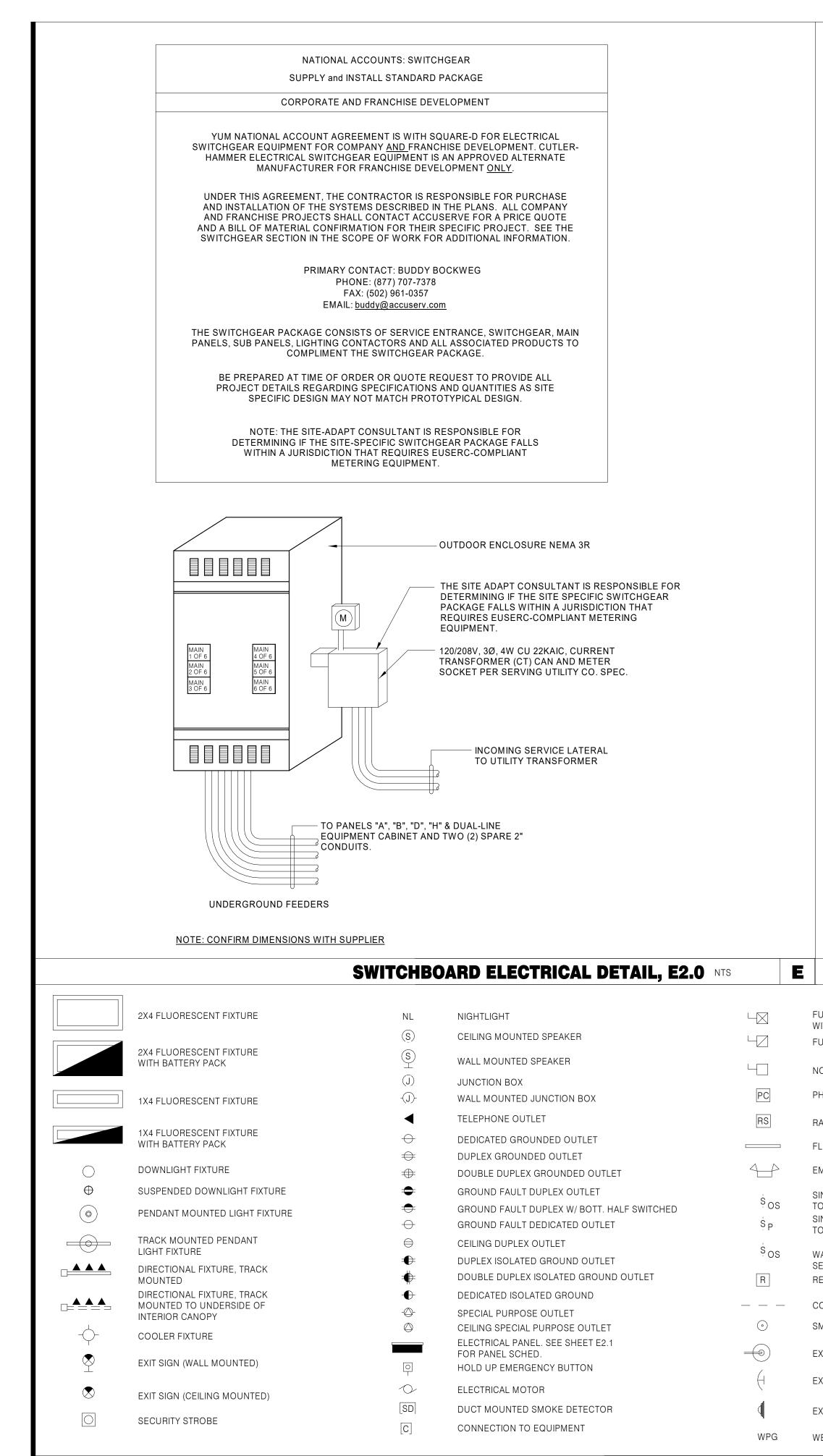
	-				
EQUIPMENT ITEM	TYPE	ELEVATION	REMARKS	0	HOT WATER
T SINK FAUCET	CW/HW	+38" A.F.F		0	COLD WATER
	W	+19" A.F.F			
DET	CW/HW	+38" A.F.F		8	TEMPERED WATER
Т				G	GAS
UT					
					FLOOR DRAIN
					FLOOR SINK
र	нw	+8" A.F.F.		0	HUB DRAIN
<b>સ</b>	G	+12" A.F.F.		•	WASTE OUTLET
२	G	+12" A.F.F.			
				Φ	FLOOR CLEANOUT
				θ	WALL CLEANOUT
SYSTEM	CW	+94" A.F.F.	INLET TO & OUTLET FROM FILTER		
				0	FILTERED WATER
STEM	CW	+24" A.F.F.		\$	VENT UP FROM UNDER SLAB
				0	WATER LINE THRU FLOOR



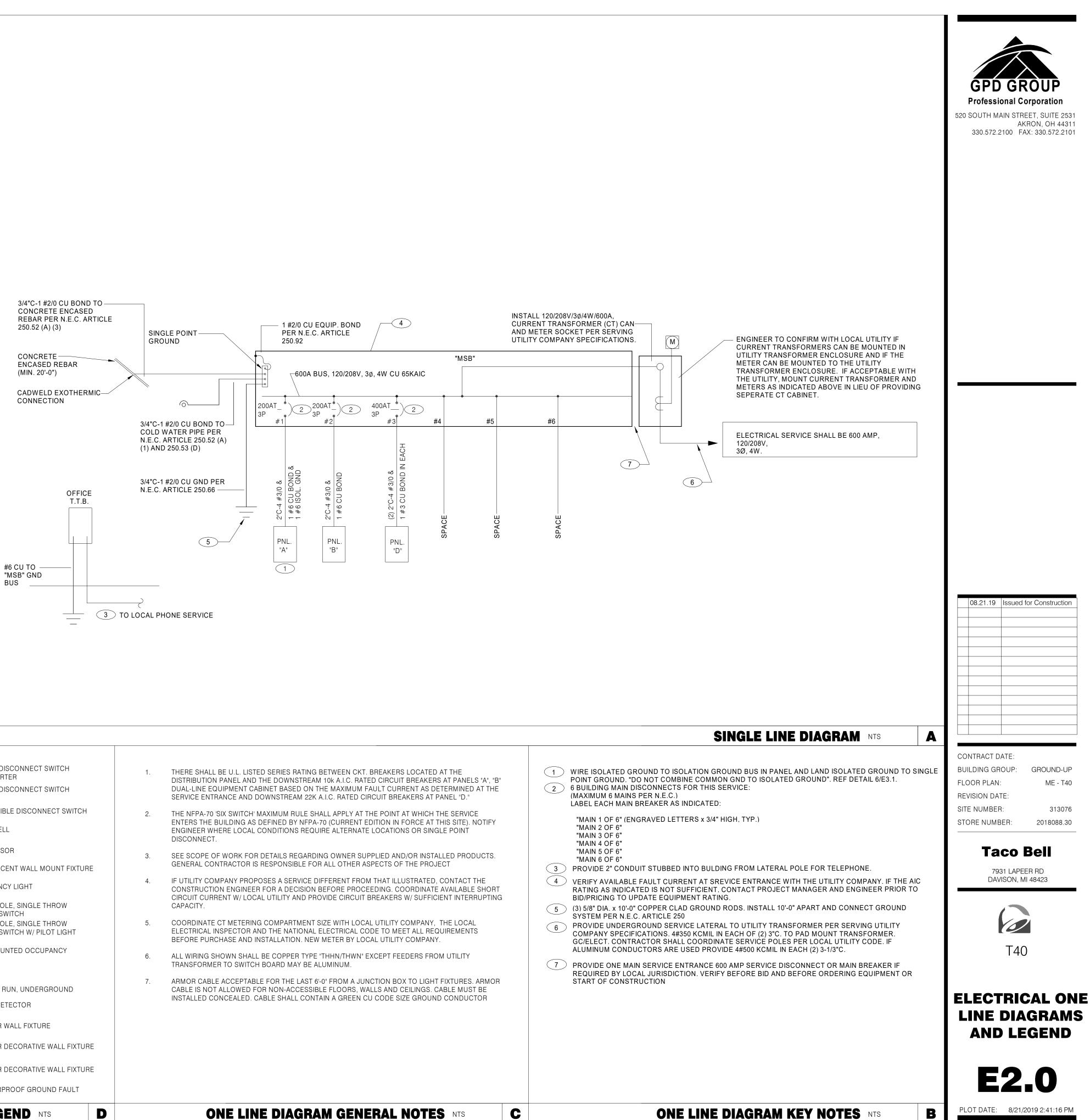




9	ILLUMINATED CLEARANCE BAR.
8	UNDERGROUND SECONDARY ELECTRICAL SINGLE LINE DIAGRAM FOR CONDUIT AND C
$\overline{7}$	ORDER CONFIRMATION BOARD/ SPEAKER
6	UNDERGROUND TELEPHONE SERVICE. REF FOR LOCATION AND ROUTING. VERIFY AND REQUIREMENTS WITH UTILITY CO.
	ROUTING. VERIFY AND COORDINATE ALL PI TRANSFORMER PAD REQUIREMENTS WITH
5	UNDERGROUND ELECTRIC SERVICE TO UT TRANSFORMER. REFER TO CIVIL SHEETS F
4	LED PYLON SIGN.
3	MENU BOARD. REFER TO DETAIL 3/E7.0.
$\bigcirc$	3/E7.0.
2	PROVIDE CONNECTION TO ORDER CANOPY AS MENU BOARD AND CLEARANCE BAR. RI
	3/4" C 2 #10, #10 GRD. (TYP. FOR ENTIRE C



### ELECTRICAL



L LEGEND NTS D	ONE LINE DIAGRAM GENERAL NOTES NTS C	
WEATHERPROOF GROUND FAULT		
EXTERIOR DECORATIVE WALL FIXTURE		
EXTERIOR DECORATIVE WALL FIXTURE		
EXTERIOR WALL FIXTURE		
SMOKE DETECTOR	INSTALLED CONCEALED. CABLE SHALL CONTAIN A GREEN CU CODE SIZE GROUND CONDUCTOR	
CONDUIT RUN, UNDERGROUND	7. ARMOR CABLE ACCEPTABLE FOR THE LAST 6'-0" FROM A JUNCTION BOX TO LIGHT FIXTURES. ARMOR CABLE IS NOT ALLOWED FOR NON-ACCESSIBLE FLOORS, WALLS AND CEILINGS. CABLE MUST BE	START OF CONSTR
WALL MOUNTED OCCUPANCY SENSOR RELAY	6. ALL WIRING SHOWN SHALL BE COPPER TYPE "THHN/THWN" EXCEPT FEEDERS FROM UTILITY TRANSFORMER TO SWITCH BOARD MAY BE ALUMINUM.	ALUMINUM CONDU 7 PROVIDE ONE MAII REQUIRED BY LOC
SINGLE POLE, SINGLE THROW TOGGLE SWITCH W/ PILOT LIGHT	5. COORDINATE CT METERING COMPARTMENT SIZE WITH LOCAL UTILITY COMPANY, THE LOCAL ELECTRICAL INSPECTOR AND THE NATIONAL ELECTRICAL CODE TO MEET ALL REQUIREMENTS BEFORE PURCHASE AND INSTALLATION. NEW METER BY LOCAL UTILITY COMPANY.	6 PROVIDE UNDERG COMPANY SPECIFI GC/ELECT. CONTR
SINGLE POLE, SINGLE THROW TOGGLE SWITCH	CIRCUIT CURRENT W/ LOCAL UTILITY AND PROVIDE CIRCUIT BREAKERS W/ SUFFICIENT INTERRUPTING CAPACITY.	BID/PRICING TO UF 5 (3) 5/8" DIA. x 10'-0" SYSTEM PER N.E.C
EMERGENCY LIGHT	4. IF UTILITY COMPANY PROPOSES A SERVICE DIFFERENT FROM THAT ILLUSTRATED, CONTACT THE CONSTRUCTION ENGINEER FOR A DECISION BEFORE PROCEEDING. COORDINATE AVAILABLE SHORT	4 VERIFY AVAILABLE RATING AS INDICA
RAIN SENSOR FLUORESCENT WALL MOUNT FIXTURE	3. SEE SCOPE OF WORK FOR DETAILS REGARDING OWNER SUPPLIED AND/OR INSTALLED PRODUCTS. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL OTHER ASPECTS OF THE PROJECT	"MAIN 5 OF 6" "MAIN 6 OF 6" 3 PROVIDE 2" CONDU
PHOTOCELL	ENTERS THE BUILDING AS DEFINED BY NFPA-70 (CURRENT EDITION IN FORCE AT THIS SITE). NOTIFY ENGINEER WHERE LOCAL CONDITIONS REQUIRE ALTERNATE LOCATIONS OR SINGLE POINT DISCONNECT.	"MAIN 1 OF 6" (EN) "MAIN 2 OF 6" "MAIN 3 OF 6" "MAIN 4 OF 6"
NON-FUSIBLE DISCONNECT SWITCH	2. THE NFPA-70 'SIX SWITCH' MAXIMUM RULE SHALL APPLY AT THE POINT AT WHICH THE SERVICE	(MAXIMUM 6 MAINS LABEL EACH MAIN E
WITH STARTER FUSIBLE DISCONNECT SWITCH	DISTRIBUTION PANEL AND THE DOWNSTREAM 10k A.I.C. RATED CIRCUIT BREAKERS AT PANELS "A", "B" DUAL-LINE EQUIPMENT CABINET BASED ON THE MAXIMUM FAULT CURRENT AS DETERMINED AT THE	POINT GROUND. "D 6 BUILDING MAIN DI (MAXIMUM 6 MAINS
FUSIBLE DISCONNECT SWITCH	1. THERE SHALL BE U.L. LISTED SERIES RATING BETWEEN CKT. BREAKERS LOCATED AT THE	(1) WIRE ISOLATED GR

	Switchboard:	MDP									
	Location: Supply From: Mounting: S	SURFACE			Volts: Phases: Wires:		3 Wye		A.I.C. Rating Mains Type Mains Rating	:	;
Notes:	Enclosure: 1	NEMA-3R							MCB Rating	:	
OKT			1		WIRE	# of Poles	France Size	Trin Dating	Lood	Demer	_
<b>CKT</b>	PANELBOARD A	Circuit Descript	ion		3/0	3	Frame Size	Trip Rating 200 A	Load 60169 VA	Remark	S
2	PANELBOARD B				3/0	3	225 A 225 A	200 A 200 A	19280 VA		
3	PANELBOARD D				2-3/0	3	400 A	400 A	67148 VA		
4	PANELBOARD D				2-3/0	3	400 A	400 A	07 140 VA		
5					-						
6											
							To	tal Conn. Load:	146596 VA		
								Total Amps:			
_oad Clas	sification		Connected Load	Der	mand Fa	ctor	Estimated De	•		Panel	Totals
HVAC			13885 VA		100.00%	)	13885 VA	۹			
Kitchen			3478 VA		65.00%		2261 VA	<b>x</b>	Total Cor	n. Load:	146596 VA
Kitchen Eq	uipment - Non-Dwelling Unit		32557 VA		65.00%		21162 V/	4	Total Est.	Demand:	134597 VA
_ighting			11945 VA		125.00%	)	14931 V/	4	Total Conn.	Current:	407 A
Other			19248 VA		100.00%	)	19248 VA		tal Est. Demand	Current:	374 A
Power			31342 VA		100.00%		31342 VA				
Receptacle			14748 VA		83.90%		12374 VA				
Refrigeratio	n		18894 VA		100.00%	)	18894 VA	A			
Spare			500 VA	100.009	%		500 VA				

Location: Supply From: MDP Mounting: Rece Enclosure: Type				Volts Phases Wires		ye		A.I.C. Rating: SERIES Mains Type: M.L.O. Mains Rating: 225 A MCB Rating:								
8.						1		1								
CKT Circuit Description	Wire Size	Trip	Poles		A		В	C	2	Poles		Wire Size	Circuit	Description	СКТ	NOTI
1 DINING LTS		20 A	1	209 VA	0 VA					1	20 A		SPARE		2	
3 EXTERIOR SCONCE/PATIO LTS		20 A	1			120 VA	0 VA			1	20 A		SPARE		4	
5 KITCHEN/ BOH/ RESTROOM LTS		20 A	1					729 VA	1500 VA	1	20 A		EXTERIOR SIGN	\GE	6	2
7 SPARE		20 A	1	0 VA	154 VA					1	20 A		EMERGENCY LT	INT/EXT, EXIT SIGNS	8	
9 LTG-SITE-MENU CLEARANCE & CANOP	(	20 A	1			1000 VA	500 VA			1	20 A		ТВССВ		10	
11 EXTERIOR CANOPY LTS - ENTRANCE		20 A	1					2000 VA	900 VA	1	20 A		LTG - SHOW WIN	DOW	12	2
13 LTG - SHOW WINDOW		20 A	1	600 VA	500 VA					1	20 A		INTERIOR COVE	LIGHTS	14	2
15 CANOPY LTS - PATIO		20 A	1			1500 VA	1000 VA			1	20 A		DIGITAL MENU S	ECURITY LTS	16	2
17 LTG - COOLER & FREEZER		20 A	1					800 VA	1000 VA	1	20 A		CANOPY LTS - DI	RIVE THRU	18	2
19 SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE		20	
21 CANOPY LTS - ENTRANCE		20 A	1			1500 VA	386 VA			1	20 A		SITE LIGHTING		22	2
23 SPARE		20 A	1					0 VA	386 VA	1	20 A		SITE LIGHTING		24	2
25 LTG-SITE-PYLON SIGN		20 A	1	1200 VA	386 VA					1	20 A		SITE LIGHTING		26	2
27 LTG-SITE-S240 OCB & SPEAKER POST		20 A	1			1130 VA									28	2
29 EF-1		20 A	1					1120 VA	660 VA	1	20 A		EF-2		30	
31 SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE		32	
33 SPARE		20 A	1	-	-	0 VA	0 VA			1	20 A		SPARE		34	
35 SPARE		20 A	1					0 VA	0 VA	1	20 A		SPARE		36	
37 SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE		38	
39 SPARE		20 A	. 1			0 VA	0 VA			1	20 A		SPARE		40	
41 SPARE		20 A						0 VA	0 VA	1	20 A		SPARE		42	
		Total		3049	) VA	71;	36 VA		5 VA		2071					
			otal		A		65 A	81		-						
Classification		Conn			Demand			ed Demand					Panel Tot	als		
;			780 V		100.00			30 VA								
ng			945 V		125.00			31 VA					nnected Load:			
			25 VA		100.00			5 VA					ated Demand:			
r 																
									T	otal Es	timate					
r otacle			1	1500 VA	3330 VA 1500 VA 500 VA	1500 VA 100.00	1500 VA 100.00%	1500 VA 100.00% 150	1500 VA 100.00% 1500 VA	1500 VA 100.00% 1500 VA <b>T</b>	1500 VA 100.00% 1500 VA <b>Total Es</b>	1500 VA 100.00% 1500 VA <b>Total Estimate</b>	1500 VA 100.00% 1500 VA <b>Total Estimated Der</b>	1500 VA 100.00% 1500 VA Total Estimated Demand Current:	1500 VA 100.00% 1500 VA Total Estimated Demand Current: 62 A	1500 VA         100.00%         1500 VA         Total Estimated Demand Current:         62 A

otes:	Location: Supply From: MDP Mounting: Recessed Enclosure: Type 1				Volts: Phases: Wires:		/ye			Main Mains	Rating: SERIES ns Type: M.L.O. Rating: 225 A Rating:			GPD GROU Professional Corporat
	P-417 TIMER	e         Trip         Poles           20 A         1		300 VA		B		C	1	Wir S Trip Siz	e Circuit Description F-060 OFFICE COMPUTER	2		520 SOUTH MAIN STREET, SUI AKRON, OI 330.572.2100 FAX: 330.5
	3     S-546 ICED TEA       5     OFFICE QUAD RECEPTACLE	20 A 1 20 A 1			1780 VA	1260 VA	680 VA	1425 VA	1	20 A 20 A	DRIVE THRU POS/ORDER ENTRY 1 S-547 BREWER	4	3	
	7     OFFICE RECEPTACLE       9     PRINTER	20 A 1 20 A 1	180 VA 1	200 VA	500 VA	180 VA			_	20 A 20 A	DINING POS ENTRY 1 RECEPTACLES - OFFICE	8		
	1     U-052 SECURITY SYSTEM       3     DRIVE THRU POS/ORDER ENTRY 2	20 A 1 20 A 1	1260 VA 1	140 VA			360 VA	864 VA	_	20 A 20 A	S-204 D/T TIMING SYSTEM R-009 FULL HEIGHT FREEZER	12 14		
3 1	5 BEVERAGE DISPENSER D/T	15 A 1			1428 VA	2013 VA			2	30 A	P-452 HOT WATER SYSTEM	16		
1	P-452 HOT WATER SYSTEM	30 A 2	2013 VA 1	080 VA			2013 VA	2013 VA	_	20 A	INTERIOR DIGITAL MENUBOARD	18 20		
	1       C-107 RETHERMALIZER         3       SHUNT TRIP FOR RETHERMALIZER	20 A 1			240 VA	500 VA	0 VA	1560 VA	_	20 A 20 A	E-107 FIRE SUPPRESSION C-026 FRYER	22 24		
2	5 C-400 COOK TIMER	20 A 1	288 VA	0 VA	10401/4	500 \ (A				 20 A	SHUNT TRIP BREAKER FOR DUAL OCB SWITCH	26		
2	C-256 EVO CABINET 1 (VLINE 1)	15 A 2			1248 VA	500 VA	1248 VA	0 VA	1	20 A	Spare	28 30		
	1         S-027 HEAT CABINET           3         S-027 HEAT CABINET	20 A 1 20 A 1	2000 VA	0 VA	2000 VA	500 VA			_	20 A 20 A	Spare HOOD FIRE SUPPRESSION SYSTEM	32 34		
3 3: 3 <sup>.</sup>	5 S-513 ICE MACHINE	15 A 1	1560 VA 1	664 VA			120 VA	456 VA	1	15 A	HEATED DRAWER WARMER	36 38		
3	HOT WELL	20 A 2	1560 VA 1	004 VA	1560 VA	1664 VA				20 A	VLINE CHEESE MELTER	40		
4	1 3 C-250 VLINE CHEESE MELTER	20 A 2	1664 VA 2	196 VA			1664 VA	2196 VA		30 A 30 A	VLINE CLAM VLINE CLAM	42 44		
3 4	5 DIGITAL SCALE (VLINE 2) 7 KITCHEN/DRIVE THRU MONITORS	15 A 1 20 A 1			240 VA	0 VA	1080 \/4	840 VA	1	20 A 15 A	Spare COLD PAN	46		
4	9 Spare	20 A 1	0 VA 1	248 VA				840 VA		15 A	EVO CABINET 1 (VLINE 2)	50		
	1       Spare         3       DINING POS ENTRY 2 & CARD READERS	20 A 1 20 A 1			0 VA	1248 VA	1320 VA	360 VA		20 A	SAFE W/TOUCHSCREEN CONTROLS	52 54		
3 5	5 DIGITAL SCALE 7 REF'G DRAWER	15 A 1 15 A 1	240 VA 8	340 VA	960 VA	456 VA			1	15 A 15 A	COLD PAN HEATED DRAWER WARMER	56 58	3	
59	9 TORTILLA WARMER	20 A 2			500 VA	AV UCF	905 VA	960 VA		15 A 15 A	REF'G DRAWER	60	0 3	
6	1	20 A 1	905 VA 9	905 VA	180 VA	905 VA			2	20 A	TORTILLA WARMER	62 64		
6	5 Spare	20 A 1 Total Load	20743 \	/A	1936	62 VA	0 VA	0 VA 64 VA	1	20 A	Spare	66		
	ssification	Total Connected	. 174 A		16	61 A		68 A			Panel Totals			
chen	quipment - Non-Dwelling Unit	1140 V 25153 V	Ά	65.009 65.009	%	74	41 VA 349 VA	• 		Total C	onnected Load: 60169 VA			
wer		22852		100.00			352 VA			Total C	Onneclea Load: 100109 VA			
ceptacl		110011									mated Demand: 50454 VA			
tes:		11024		95.36			512 VA	T	otal E	Total Con stimated D				08.21.19 Issued for Const
tes:									otal E	Total Con stimated D	mated Demand:50454 VAnected Current:167 Aemand Current:140 A	PROF ANY SHAL THAT ISSU FROM SUBM	NOTE TO CONTRACTORS         CONTRACTORS PRIOR TO BID SUBMISSION PROCESS SHALL VISIT         POSED WORK SITE AND FIELD VERIFY ALL EXISTING CONDITIONS.         CONDITION THAT DIFFERS FROM THAT SHOWN ON THESE PLANS         LL BE REPORTED TO THE TENANT'S ARCHITECT/ENGINEER SO         T NEW AND REVISED BID DRAWINGS OR INFORMATION MAY BE         JED. MODIFICATION TO THE SCOPE OF WORK WHICH RESULTS         MITTING BID, SHALL BE THE CONTRACTORS SOLE         PONSIBILITY.	CONTRACT DATE:
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es:									otal E	Total Con stimated D S	mated Demand:       50454 VA         nected Current:       167 A         emand Current:       140 A         System Voltage:       120/208 Wye         Image:       120/208 Wye         Image:       Image:         GENERAL NOTE:       Image:         FOR PARKING LOT (SITE) LIGHTS A         10'-0" AWAY FROM THE BUILDING.         WITH LOCATION. VERIFY OUTDOOI	PROF ANY SHAL THAT ISSU FROF SUBN RESF	CONTRACTORS PRIOR TO BID SUBMISSION PROCESS SHALL VISIT POOSED WORK SITE AND FIELD VERIFY ALL EXISTING CONDITIONS. CONDITION THAT DIFFERS FROM THAT SHOWN ON THESE PLANS ILL BE REPORTED TO THE TENANT'S ARCHITECT/ENGINEER SO T NEW AND REVISED BID DRAWINGS OR INFORMATION MAY BE JED. MODIFICATION TO THE SCOPE OF WORK WHICH RESULTS M THE CONTRACTORS NEGLECT TO VISIT THE SITE PRIOR TO MITTING BID, SHALL BE THE CONTRACTORS SOLE PONSIBILITY.	CONTRACT DATE: BUILDING GROUP: GROU FLOOR PLAN: M REVISION DATE: SITE NUMBER: STORE NUMBER: 2018 TACO BEI
tes:									otal E	Total Con stimated D	mated Demand:       50454 VA         nected Current:       167 A         emand Current:       140 A         System Voltage:       120/208 Wye         Image:       120/208 Wye         Image:       Image:         GENERAL NOTE:       FOR PARKING LOT (SITE) LIGHTS A         10'-0" AWAY FROM THE BUILDING.       Image:	AND OU R VOLT	CONTRACTORS PRIOR TO BID SUBMISSION PROCESS SHALL VISIT POOSED WORK SITE AND FIELD VERIFY ALL EXISTING CONDITIONS. CONDITION THAT DIFFERS FROM THAT SHOWN ON THESE PLANS ILL BE REPORTED TO THE TENANT'S ARCHITECT/ENGINEER SO T NEW AND REVISED BID DRAWINGS OR INFORMATION MAY BE JED. MODIFICATION TO THE SCOPE OF WORK WHICH RESULTS M THE CONTRACTORS NEGLECT TO VISIT THE SITE PRIOR TO MITTING BID, SHALL BE THE CONTRACTORS SOLE PONSIBILITY.	CONTRACT DATE: BUILDING GROUP: GROU FLOOR PLAN: M REVISION DATE: SITE NUMBER: STORE NUMBER: 2018 TACO BEI
es:										Total Con stimated D S	mated Demand:       50454 VA         nected Current:       167 A         emand Current:       140 A         System Voltage:       120/208 Wye         Image:       Image:         Imag	PROF ANY SHAL THAT ISSU FROM SUBN RESF	CONTRACTORS PRIOR TO BID SUBMISSION PROCESS SHALL VISIT POOSED WORK SITE AND FIELD VERIFY ALL EXISTING CONDITIONS. CONDITION THAT DIFFERS FROM THAT SHOWN ON THESE PLANS ILL BE REPORTED TO THE TENANT'S ARCHITECT/ENGINEER SO T NEW AND REVISED BID DRAWINGS OR INFORMATION MAY BE JED. MODIFICATION TO THE SCOPE OF WORK WHICH RESULTS M THE CONTRACTORS NEGLECT TO VISIT THE SITE PRIOR TO MITTING BID, SHALL BE THE CONTRACTORS SOLE PONSIBILITY.	CONTRACT DATE: BUILDING GROUP: GROU FLOOR PLAN: M REVISION DATE: SITE NUMBER: STORE NUMBER: 2018 TACO BEI DAVISON, MI 48423
tes:									otal E	Total Con stimated D	mated Demand:       50454 VA         nected Current:       167 A         emand Current:       140 A         System Voltage:       120/208 Wye         Image:       120/208 Wye         Image:       Image:         GENERAL NOTE:       Image:         FOR PARKING LOT (SITE) LIGHTS A         10'-0" AWAY FROM THE BUILDING.         WITH LOCATION. VERIFY OUTDOOL         KEY NOTES:         1.       PROVIDE LOCK-ON BREAKEF	PROF ANY SHAL THAT ISSU FROM SUBN RESF	UTSIDE SIGNS: PROVIDE (5) 3/4"C FROM PANEL "B" AND STUB OUT YEXACT LOCATION OF STUB PRIOR TO ROUGH-IN. LOADS MAY VARY	CONTRACT DATE: BUILDING GROUP: GROU FLOOR PLAN: M REVISION DATE: SITE NUMBER: STORE NUMBER: 2018 TACO BEI
es:										Total Con stimated D	mated Demand:       50454 VA         nected Current:       167 A         emand Current:       140 A         System Voltage:       120/208 Wye         Image:       120/208 Wye         Image:       Image:         GENERAL NOTE:       Image:         FOR PARKING LOT (SITE) LIGHTS A         10'-0" AWAY FROM THE BUILDING.         WITH LOCATION. VERIFY OUTDOOI         KEY NOTES:         1.       PROVIDE LOCK-ON BREAKEF         2.       CIRCUITS TO BE WIRED THR         THROUGH 6.3.	PROF ANY SHAL THAT ISSU FROM SUBN RESF	UTSIDE SIGNS: PROVIDE (5) 3/4"C FROM PANEL "B" AND STUB OUT YEXACT LOCATION OF STUB PRIOR TO ROUGH-IN. LOADS MAY VARY	CONTRACT DATE: BUILDING GROUP: GROU FLOOR PLAN: M REVISION DATE: SITE NUMBER: STORE NUMBER: 2018 TACO BEL
tes:										Total Con stimated D	mated Demand:       50454 VA         nected Current:       167 A         emand Current:       140 A         System Voltage:       120/208 Wye         Image:       120/208 Wye         Image:       Image:         GENERAL NOTE:       Image:         FOR PARKING LOT (SITE) LIGHTS A         10'-0" AWAY FROM THE BUILDING.         WITH LOCATION. VERIFY OUTDOOI         KEY NOTES:         1.       PROVIDE LOCK-ON BREAKEF         2.       CIRCUITS TO BE WIRED THR         THROUGH 6.3.	PROF ANY SHAL THAT ISSU FROM SUBN RESF	UTSIDE SIGNS: PROVIDE (5) 3/4"C FROM PANEL "B" AND STUB OUT YEXACT LOCATION OF STUB PRIOR TO ROUGH-IN. LOADS MAY VARY	CONTRACT DATE: BUILDING GROUP: GROU FLOOR PLAN: M REVISION DATE: SITE NUMBER: 2018 STORE NUMBER: 2018 DAVISON, MI 48423
tes:										Total Con stimated D	mated Demand:       50454 VA         nected Current:       167 A         emand Current:       140 A         System Voltage:       120/208 Wye         Image:       120/208 Wye         Image:       Image:         GENERAL NOTE:       Image:         FOR PARKING LOT (SITE) LIGHTS A         10'-0" AWAY FROM THE BUILDING.         WITH LOCATION. VERIFY OUTDOOI         KEY NOTES:         1.       PROVIDE LOCK-ON BREAKEF         2.       CIRCUITS TO BE WIRED THR         THROUGH 6.3.	PROF ANY SHAL THAT ISSU FROM SUBN RESF	UTSIDE SIGNS: PROVIDE (5) 3/4"C FROM PANEL "B" AND STUB OUT YEXACT LOCATION OF STUB PRIOR TO ROUGH-IN. LOADS MAY VARY	CONTRACT DATE: BUILDING GROUP: GROU FLOOR PLAN: M REVISION DATE: SITE NUMBER: 2018 STORE NUMBER: 2018
es:										Total Con stimated D	mated Demand:       50454 VA         nected Current:       167 A         emand Current:       140 A         System Voltage:       120/208 Wye         Image:       120/208 Wye         Image:       Image:         GENERAL NOTE:       Image:         FOR PARKING LOT (SITE) LIGHTS A         10'-0" AWAY FROM THE BUILDING.         WITH LOCATION. VERIFY OUTDOOI         KEY NOTES:         1.       PROVIDE LOCK-ON BREAKEF         2.       CIRCUITS TO BE WIRED THR         THROUGH 6.3.	PROF ANY SHAL THAT ISSU FROM SUBN RESF	UTSIDE SIGNS: PROVIDE (5) 3/4"C FROM PANEL "B" AND STUB OUT YEXACT LOCATION OF STUB PRIOR TO ROUGH-IN. LOADS MAY VARY	CONTRACT DATE: BUILDING GROUP: GROU FLOOR PLAN: M REVISION DATE: SITE NUMBER: STORE NUMBER: 2018 DAVISON, MI 48423 TAO ELECTRIC

	COMMERCIAL KITCHEN EQUIPMENT SCHEDULE																		
		EQUIPMENT IDENTIFICATION	EQUIPMENT ELEC	PMENT ELECTRICAL CHARACTERISTICS     EQUIPMENT CIRCUIT     EQUIPMENT DISCONNET															
	Щ			/RLA	A	E DELAY FUSE	INVERSE-TIME BREAKER	٥.		1EL	CIRCUIT NUMBER	ie type	CONDUIT TYPE	ш		٩V	SUPPLIED BY	INSTALLED BY	
TAG B-223	о ТҮРІ	EQUIPMENT NAME B-223 WATER HEATER IGNITION	V/Ph - WATTS 120 V/1-744 VA		WCW 1.9	EWIL 20	20	2ETS	BRANCH CIRCUIT #12 W/#12 G IN 3/4"C	D PANEL	CIR 3	2 WIRE	0 ST	ULA ULA C&P	JZIS 20	WBN 5-20	INS ES	SNI ES	NOTES 2
C-026	KR	FRYER	120 V/1-1560 VA	6.1	7.4	20	20	1	#12 W/#12 G IN 3/4 C #12 W/#12 G IN 3/4 C	A	24	CU	ST	C&P	20	5-20	ES	ES	2
C-107 C-203	KR KR	RETHERMALIZER VLINE CLAM	120 V/1-240 VA 120 V/1-2196 VA	1.6 14.6	2 18.3	20 30	20 30	1	#12 W/#12 G IN 3/4"C #10 W/#10 G IN 3/4"C	A A	21 42	CU CU	ST ST	C&P C&P	20 30	5-20 5-30R	ES ES	ES ES	2
C-203	KR	VLINE CLAM	120 V/1-2196 VA	14.6	18.3	30	30	1	#10 W/#10 G IN 3/4"C	А	44	CU	ST	C&P	30	5-30R	ES	ES	2
C-204 C-204	KM KM	COLD PAN COLD PAN	120 V/1-840 VA 120 V/1-840 VA	5.6 5.6	7	15 15	15 15	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A A	48 56	CU CU	ST ST	C&P C&P	15 15	5-15R 5-15R	ES ES	ES ES	2 2
C-252 C-252	KR KR	HOT WELL HOT WELL	208 V/2-3120 VA 208 V/2-3120 VA	12 12	15 15	20 20	20 20	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A D	37,39 40,42	CU CU	ST ST	C&P C&P	20 20	14-20R 14-20R	ES ES	ES ES	2
C-254	KR	VLINE CHEESE MELTER	208 V/2-3328 VA	12.8	16	20	30	1	#12 W/#12 G IN 3/4"C	А	38,40	CU	ST	C&P	20	6-20R	ES	ES	2
C-254 C-400	KR O	VLINE CHEESE MELTER	208 V/2-3328 VA 120 V/1-288 VA	12.8 1	16 2.4	20 20	20 20	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A	41,43 25	CU CU	ST ST	C&P C&P	20 20	6-20R 5-20	ES ES	ES ES	2
D-052	0	OFFICE RECEPT BOH GENERAL USE RECEPTACLE	120 V/1-180 VA	1	1.5	20	20	1	#12 W/#12 G IN 3/4"C	A	7	CU	ST	C&P C&P	20	5-20	ES ES	ES ES	2
D-052 E-107	0 KM	EXHAUST HOOD	120 V/1-180 VA 120 V/1-500 VA	1.6 6.0	2 20	20 20	20 20	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A A	11 22	CU CU	ST ST	DIRECT	20 20	5-20 J-BOX	ES ES	ES ES	2 8
E-272 F-040	KM O	HOOD FIRE SUPPRESSION SYSTEM MUSIC SYSTEM (MUZAK)	120 V/1-500 VA 120 V/1-500 VA	6.0 4.2	20 5.3	20 20	20 20	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A D	34 26	CU CU	ST ST	DIRECT C&P	20 20	J-BOX 5-20	ES ES	ES ES	8
F-060	0	OFFICE COMPUTER	120 V/1-300 VA	2.5	3.1	20	20	1	#12 W/#12 G IN 3/4"C	А	2	CU	ST	C&P	20	5-20	ES	ES	2
F-080 F-090	0	OFFICE PRINTER RECEIPT PRINTER	120 V/1-500 VA 120 V/1-240 VA	2	2.5 2.5	20 20	20 20	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A	9	CU CU	ST ST	C&P C&P	20 20	5-20 5-20	ES ES	ES ES	2 2
F-090	0	RECEIPT PRINTER RECEIPT PRINTER	120 V/1-240 VA	2.0	2.5 2.5	20	20	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A	8	CU CU	ST ST	C&P C&P	20	5-20 5-20	ES ES	ES ES	2
F-090 F-131	0	MUSIC SYSTEM (MUZAK)	120 V/1-240 VA 120 V/1-180 VA	2	2.5	20 20	20 20	1	#12 W/#12 G IN 3/4 C #12 W/#12 G IN 3/4 C	A D	13 8	CU	ST	C&P C&P	20 20	5-20	ES	ES ES	2
F-174 HM-10	0	SAFE W/TOUCHSCREEN CONTROLS OCB SWITCH	120 V/1-360 VA 120 V/1-500 VA	2.5 3.0	3 4.17	20 20	20 20	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A A	54 28	CU CU	ST ST	C&P C&P	20 20	5-20 5-20	ES ES	ES ES	2
IR-01	0			2	2.5	20	20	1	#12 W/#12 G IN 3/4"C	D	6	CU	ST	C&P	20	5-20	ES	ES	2
L-049 N-053	0 KR	DIGITAL MENU BOARD POWER SOAK	120 V/1-180 VA 208 V/2-2338 VA	2 8.9	2.5 11.2	20 20	20 20	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A D	20 22,24	CU CU	ST ST	C&P C&P	20 20	5-20 6-20R	ES ES	ES ES	2 2
P-08 P-417	0	OFFICE RECEPT TIMER - 8 CHANNEL	120 V/1-180 VA 120 V/1-60 VA	1	1.5 1.5	20 20	20 20	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	D A	11	CU CU	ST ST	C&P C&P	20 20	5-20 5-20	ES ES	ES ES	2
P-417 P-452	KR	HOT WATER SYSTEM	208 V/2-4026 VA	15.6	19.5	30	30	1	#10 W/#10 G IN 3/4"C	A	16,18	CU	ST	C&P	30	6-30	ES	ES	2
P-452 R-209	KR KM	HOT WATER SYSTEM R-009 FULL HEIGHT FREEZER	208 V/2-4026 VA 120 V/1-1140 VA	15.6 9.5	19.5 11.9	30 20	30 20	1	#10 W/#10 G IN 3/4"C #12 W/#12 G IN 3/4"C	A	17,19 14	CU CU	ST ST	C&P C&P	30 20	6-30 5-20	ES ES	ES ES	2
R-XX1	KM	CARBONATOR	120 V/1-888 VA	5.9	7.4	15	15	1	#12 W/#12 G IN 3/4"C	D	15	CU	ST	C&P	15	5-15	ES	ES	2
S-023 S-024	KM KM	EVO CABINET EVO CABINET	208 V/2-2496 VA 208 V/2-2496 VA	9.6 9.6	12 12	15 15	15 15	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A A	50,52 27,29	CU CU	ST ST	C&P C&P	15 15	6-15R 6-15R	ES ES	ES ES	2
S-026 S-026	KM KM	HOT CABINET HOT CABINET	120 V/1-2000 VA 120 V/1-2000 VA	13.3 13.3	16.67 16.67	20 20	20 20	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A A	31 33	CU CU	ST ST	C&P C&P	20 20	5-20 5-20	ES ES	ES ES	2
S-204	0	S-204 D/T TIMING SYSTEM	120 V/1-216 VA	7.2	9.0	20	20	1	#12 W/#12 G IN 3/4"C	A	12	CU	ST	C&P	20	5-20	ES	ES	2
S-284 S-285	KM O	CARBONATOR S-284 BEVERAGE DISPENSER (D/T)	120 V/1-138 VA 120 V/1-1428 VA	2.3 11.9	2.9 14.9	15 15	15 15	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	D	15 15	CU CU	ST ST	C&P C&P	15 15	5-15 5-15	ES ES	ES ES	2
S-286	0	WATER FILTRATION SYSTEM	120 V/1-400 VA	2	3.33	20	20	1	#12 W/#12 G IN 3/4"C	D	39	CU	ST	C&P	20	5-20	ES	ES	2
S-381 S-489	0	PEPSI BOOSTER TANK SCALE	120 V/1-120 VA 120 V/1-240 VA	1	1.3 2	15 15	15 15	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	D A	41 45	CU CU	ST ST	C&P C&P	15 15	5-15 5-15R	ES ES	ES ES	2 2
S-489 S-513	0 KM	SCALE ICE MACHINE	120 V/1-240 VA 120 V/1-120 VA		2	15 15	15 15	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A	55 35	CU CU	ST ST	C&P C&P	15 15	5-15R 5-15	ES ES	ES ES	2
S-523	0	ROOF RECEPTACLES	120 V/1-180 VA		1	20	20	1	#12 W/#12 G IN 3/4"C	D	9	CU	ST	C&P	20	5-20	ES	ES	2
S-524 S-540	0 KM	ROOF RECEPTACLES PEPSI BOOSTER TANK	120 V/1-180 VA 120 V/1-540 VA		1	20 15	20 15	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	D	9 7	CU CU	ST ST	C&P C&P	20 15	5-20 5-15R	ES ES	ES ES	2
S-546	0		120 V/1-1780 VA	14.8	2.5	20	20	1	#12 W/#12 G IN 3/4"C	A	3	CU	ST	C&P C&P	20	5-20	ES	ES	2
S-547 S-570	0 KM	BREWER CARBONATOR	120 V/1-1425 VA 120 V/1-138 VA	11.9 2.3	5.0 2.9	20 15	20 15	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A D	6 1	CU CU	ST ST	C&P C&P	20 15	5-20 5-15	ES ES	ES ES	2 2
S-739 S-XX2	KM KM	S-737 FROZEN BEVERAGE DISPENSER AIR CURTAIN RECEPTACLE	208 V/2-3120 VA 120 V/1-500 VA	31.6	39.5 4.17	30 15	30 15	1	#10 W/#10 G IN 3/4"C #12 W/#12 G IN 3/4"C	D	10,12 25	CU CU	ST ST	C&P C&P	30 20	6-30 5-20	ES ES	ES ES	2
U-052	0	U-052 SECURITY SYSTEM	120 V/1-180 VA		2	20	20	1	#12 W/#12 G IN 3/4"C	A	10	CU	ST	C&P	20	5-20	ES	ES	2
U-054 U-061	0	BOH SECURITY SYSTEM CREDIT CARD READER	120 V/1-540 VA		2	20 20	20 20	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A A	5	CU CU	ST ST	C&P C&P	20 20	5-20 5-20	ES ES	ES ES	2 2
U-061	0	CREDIT CARD READER	120 V/1-540 VA		3	20	20	1	#12 W/#12 G IN 3/4"C	A	13	CU	ST	C&P	20	5-20	ES	ES	2
U-061 U-070	0	CREDIT CARD READER U-070 RECEIPT PRINTER	120 V/1-540 VA 120 V/1-240 VA		3 2	20 20	20 20	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A A	53 4	CU CU	ST ST	C&P C&P	20 20	5-20 5-20	ES ES	ES ES	2 2
U-070 U-070	0	U-070 RECEIPT PRINTER U-070 RECEIPT PRINTER	120 V/1-240 VA 120 V/1-240 VA		2	20 20	20 20	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A	8 13	CU CU	ST ST	C&P C&P	20 20	5-20 5-20	ES ES	ES ES	2
U-072	KM	ICE MAKER CONDENSER	208 V/2-3200 VA		15.38	20	20	1	#12 W/#12 G IN 3/4"C	D	18,20	CU	ST	C&P	20	5-20	ES	ES	2
U-073 U-074	KM KM	ICE MAKER CONDENSER WALK IN FREEZER	208 V/2-3200 VA 208 V/3-4179 VA		15.38 11.6	20 20	20 20	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	D D	14,16 27,29,31	CU CU	ST ST	C&P DIRECT	20 20	5-20 J-BOX	ES ES	ES ES	2 6
U-075	KM	WALK IN COOLER POS	208 V/3-5115 VA	0	14.2	20	20	1	#12 W/#12 G IN 3/4"C	D	28,30,32		ST		20	J-BOX	ES	ES	6
U-100 U-100	0	POS	120 V/1-240 VA 120 V/1-240 VA	2 2	2.5 2.5	20 20	20 20	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A A	8	CU CU	ST ST	C&P C&P	20 20	5-20 5-20	ES ES	ES ES	2 2
U-100 U-100	0	POS POS	120 V/1-240 VA 120 V/1-240 VA	2	2.5 2.5	20 20	20 20	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A	13 53	CU CU	ST ST	C&P C&P	20 20	5-20 5-20	ES ES	ES ES	2
U-237	0	DRIVE-THRU MONITOR	120 V/1-180 VA		1.5	20	20	1	#12 W/#12 G IN 3/4"C	А	47	CU	ST	C&P	20	5-20	ES	ES	2
U-238 U-238	0	KITCHEN MONITOR KITCHEN MONITOR	120 V/1-180 VA 120 V/1-180 VA		1.5 1.5	20 20	20 20	1   1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A A	47 63	CU CU	ST ST	C&P C&P	20 20	5-20 5-20	ES ES	ES ES	2 2
UNK1	KR	HEATED DRAWER WARMER HEATED DRAWER WARMER	120 V/1-456 VA		3.8	15	15	1	#12 W/#12 G IN 3/4"C	А	36	CU	ST ST	C&P C&P	15	5-15R 5-15R	ES ES	ES ES	2
UNK1 UNK2	KR KR	TORTILLA WARMER	120 V/1-456 VA 208 V/2-1810 VA		3.8 8.7	15 20	15 20	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A A	58 59,61	CU CU	ST	C&P	15 20	6-20R	ES	ES	2 2
UNK2 UNK3	KR KM	TORTILLA WARMER REF'G DRAWER	208 V/2-1810 VA 120 V/1-960 VA		8.7 8	20 15	20 15	1	#12 W/#12 G IN 3/4"C #12 W/#12 G IN 3/4"C	A A	62,64 57	CU CU	ST ST	C&P C&P	20 15	6-20R 5-15R	ES ES	ES ES	2
UNK3	KM	REF'G DRAWER	120 V/1-960 VA		8	15	15	1	#12 W/#12 G IN 3/4"C	A	60	CU	ST	C&P	15	5-15R	ES	ES	2

\*\*\*REFER TO ARCHITECTURAL EQUIPMENT SCHEDULE FOR ALL KITCHEN EQUIPMENT AND FINAL COORDINATION\*\*\*

TYPE: H-HEATING, C-COOLING, KR-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 \*VOLTAGE DROP CALCULATION FORMULAS COURTESY OF COOPER BUSSMANN.

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 NEUTRAL CONDUCTOR 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.

Notes		Branch Panel: D Location: Supply From: MDP Mounting: Rece Enclosure: Type	ssed					Volts: Phases: Wires:	-	ye			Ma Maiı	C. Rating: SERIES ains Type: M.L.O. ns Rating: 400 A CB Rating:		
NOTE	скт	Circuit Description	Wire Size	Trin	Poles		4		В		•	Poloc	V Trip S	Vire Size Circuit Description	СКТ	NOTE
1	1	CARBONATOR	JIZE	15 A	1	138 VA	• 0 VA			,	• 	1	20 A	Spare Circuit Description	2	
1	3	B-223 WATER HEATER IGNITION		20 A	1	130 VA		744 VA	920 VA			1	20 A	ALTERNATE PAYMENT ROUTER BOX	4	1
1	5	HUB TABLE RECEPTACLES	-	20 A	1			744 VA	920 VA	500 VA	680 VA	1	20 A	IRRIGATION TIMER AND RECEPTACLE	6	1
1	7			20 A 15 A	1	540 VA	360 VA			500 VA	000 VA	1	20 A	MUSIC SYSTEM J-BOX AND	8	
1	7 9	S-540 PEPSI TANK RECEPTACLES - ROOF		15 A 20 A	1	540 VA	300 VA	360 VA	1560 VA				20 A		10	
	-		-					300 VA	1500 VA	540 \/A	1560 VA	2	30 A	S-737 FROZEN BEV. DISP.		-
	11		-	20 A	1	720 VA	1600 VA			540 VA	1500 VA				12	
1		GENERAL PURPOSE RECEPTACLES	-	20 A	1	720 VA	1600 VA	1006 \/A	1600.1/4			2	20 A	ICE MAKER CONDENSER		-
1	-	DRINK FOUNTAIN - S-284 AND S-285		20 A	1			1026 VA	1600 VA	0.) (A	4000 \/A				16	
	17	Spare		20 A	1	4000.1/4	4000.1/4			0 VA	1600 VA	2	20 A	ICE MAKER CONDENSER	18	-
	19	ICE MAKER CONDENSER D/T		20 A	2	1600 VA	1600 VA	4000.1/4	4400.1/4						20	<u> </u>
	21							1600 VA	1169 VA	5001/4	4400.144	2	20 A	POWER SOAK	22	-
1	23			20 A	1	=====	5001/4			500 VA	1169 VA				24	<u> </u>
	25	AIR CURTAIN RECEPTACLE		15 A	1	500 VA	500 VA					1	20 A	COMPUTER TOWER	26	<u> </u>
	27	-						1393 VA	1705 VA			_			28	-
	29	WALK-IN FREEZER		20 A	3					1393 VA	1705 VA	3	15 A	WALK-IN COOLER	30	-
	31					1393 VA	1705 VA								32	<u> </u>
	33	_						4035 VA	6341 VA						34	_
	35	RTU-1		50 A	3					4035 VA	6341 VA	3	80 A	RTU-2	36	_
	37					4035 VA	6341 VA								38	<u> </u>
1	39	S-286 WATER FILTER SYSTEM		20 A				400 VA	1560 VA			2	20 A	HOT WELL	40	_
1	41	S-381 AMPROBE CO2 MONITOR		20 A						120 VA	1560 VA		2071		42	
					Load:		2 VA		3 VA		3 VA					
		1 <b>6</b>			otal		5 A		4 A		2 A			Descit Totals		
	lass	sification			ected		Demand I			ed Demand				Panel Totals		
-IVAC Kitchei	1				2105 V 338 VA		100.00			05 VA 20 VA			Total	Connected Load: 67148 VA		
		uipment - Non-Dwelling Unit			404 VA		65.00			13 VA				stimated Demand: 63738 VA		
Other	•			19	9023 V	A	100.00	)%	190	23 VA			Total Co	onnected Current: 186 A		
Power					160 V		100.00			60 VA	Т	otal Es	timated	Demand Current: 177 A		
Receptacle 2224 VA					100.00	)%		24 VA				System Voltage: 120/208 Wye				
Refrige	ratio	n		18	3894 V	A	100.00	)%	188	94 VA						

<u>NOTES:</u>

1. PROVIDE GFCI BREAKER.



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CONTRACT DATE: BUILDING GROUP: FLOOR PLAN: **REVISION DATE:** SITE NUMBER: STORE NUMBER: 2018088.30

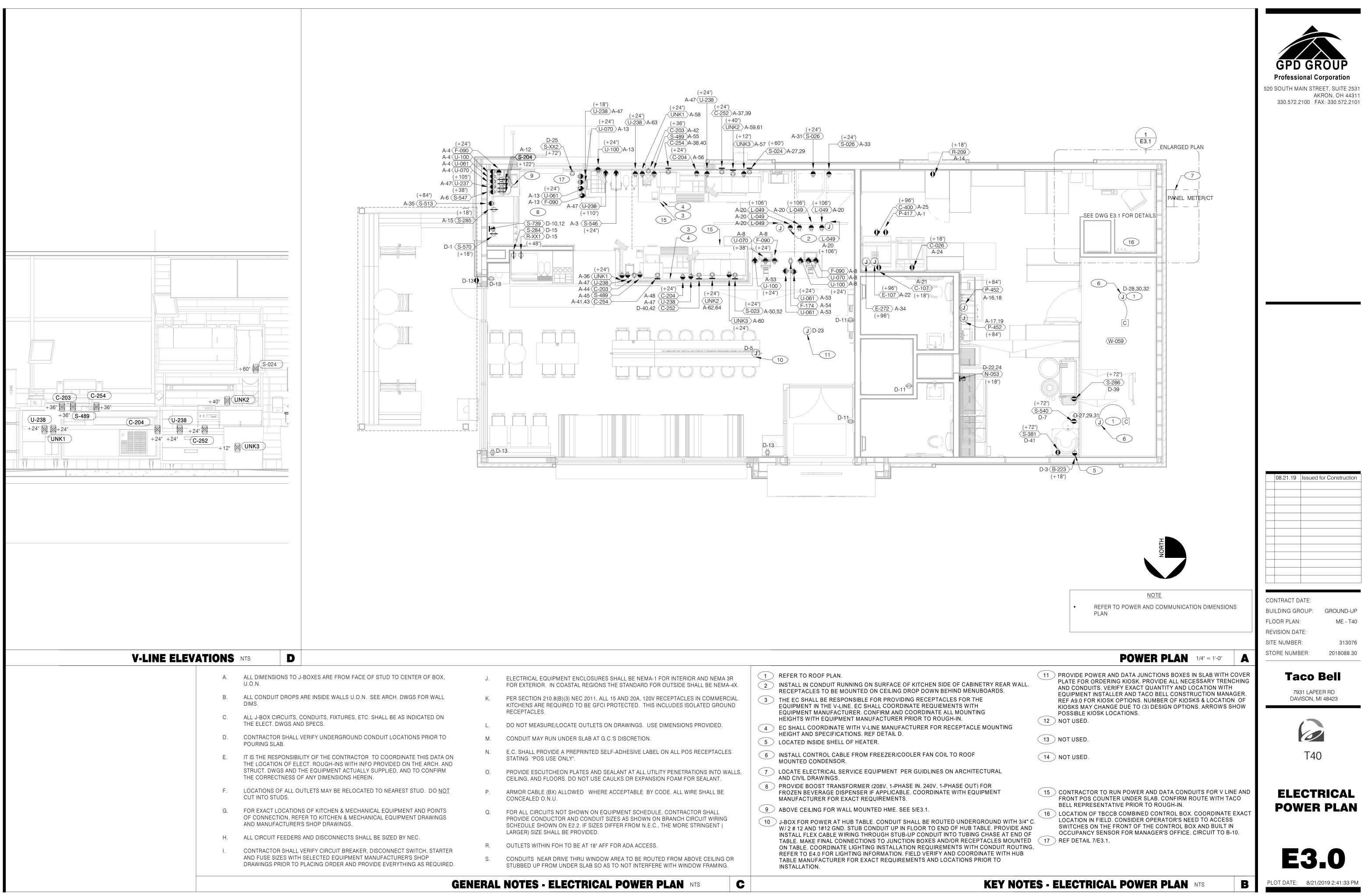
GROUND-UP ME - T40 313076





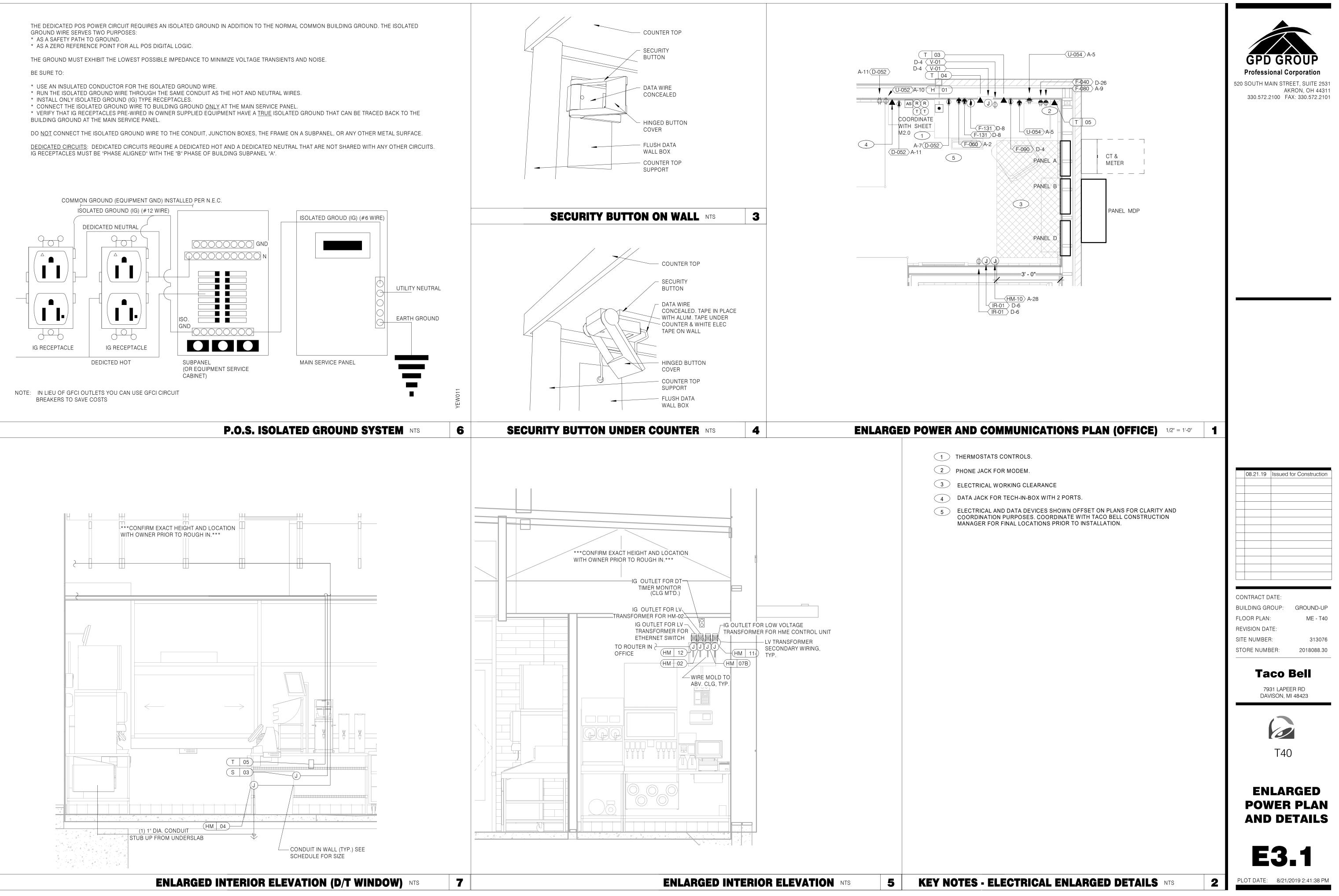


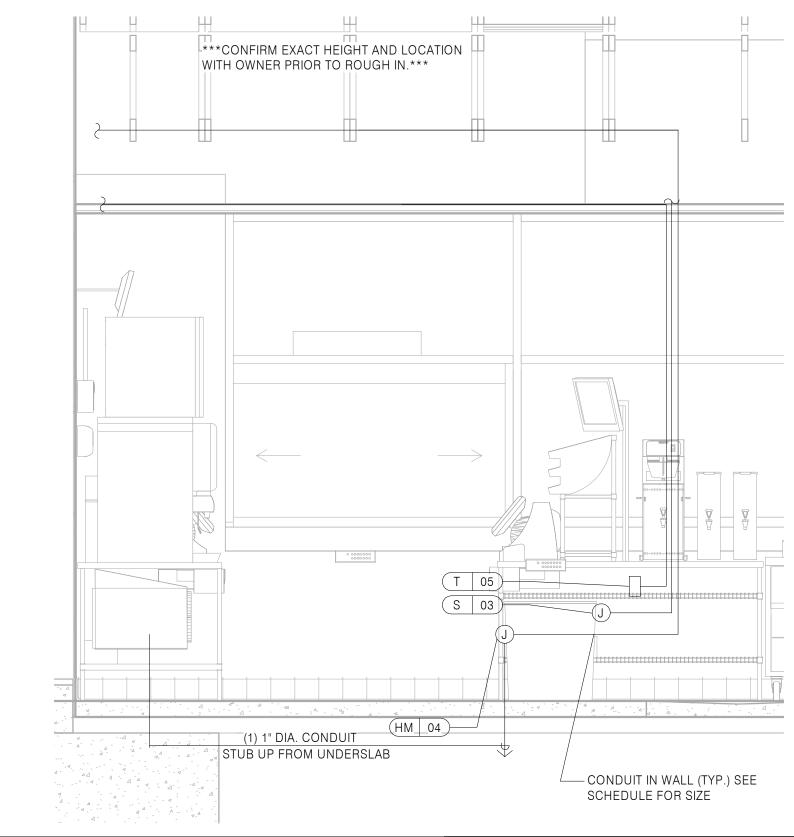


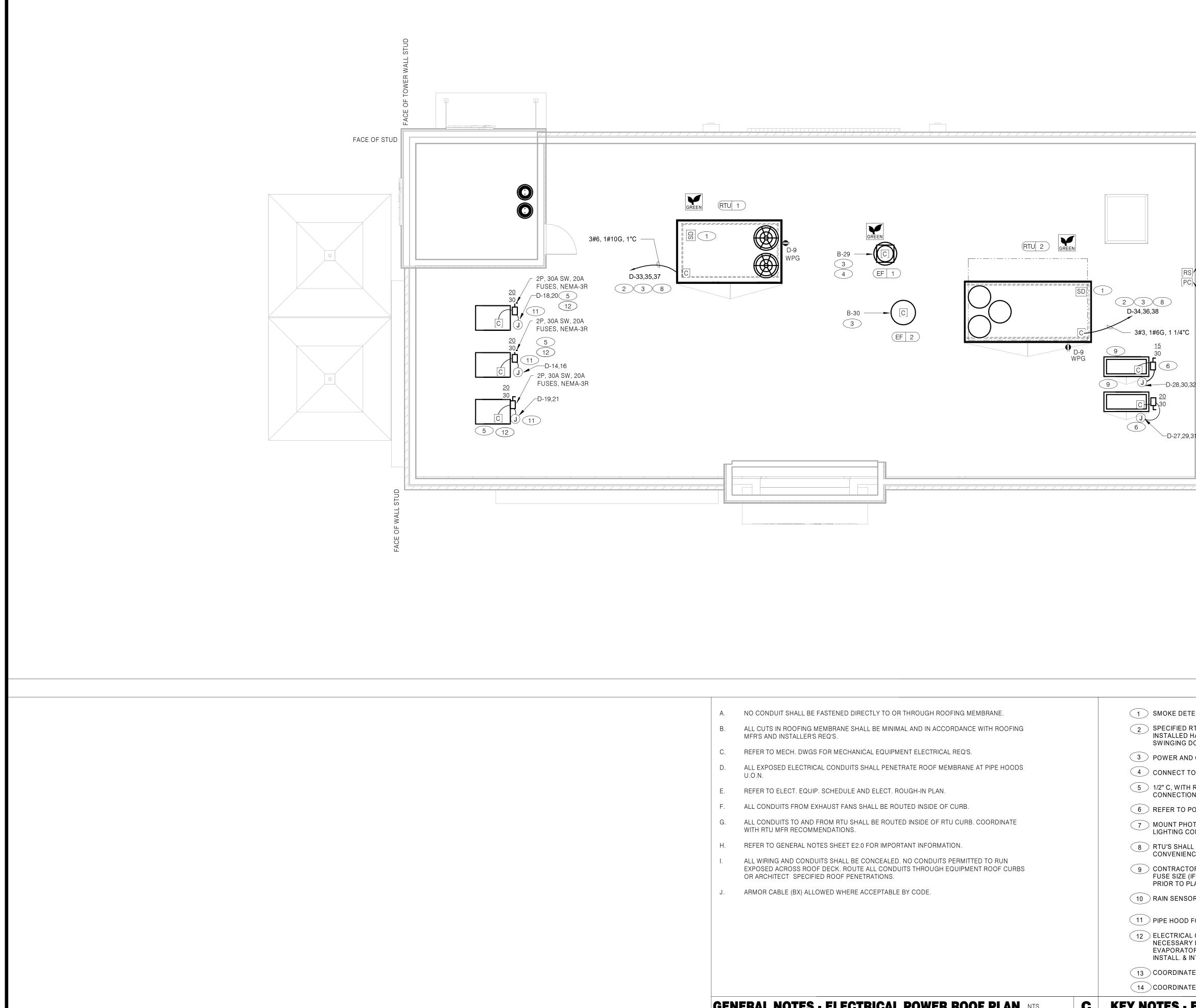


A CABLE (BX) ALLOWED WHERE ACCEPTABLE BY CODE. ALL WIRE SHALL BE ALED O.N.U. IL CIRCUITS NOT SHOWN ON EQUIPMENT SCHEDULE, CONTRACTOR SHALL DE CONDUCTOR AND CONDUIT SIZES AS SHOWN ON BRANCH CIRCUIT WIRING ULE SHOWN ON E2.2. IF SIZES DIFFER FROM N.E.C., THE MORE STRINGENT ( R) SIZE SHALL BE PROVIDED. TS WITHIN FOH TO BE AT 18" AFF FOR ADA ACCESS. JITS NEAR DRIVE THRU WINDOW AREA TO BE ROUTED FROM ABOVE CEILING OR ED UP FROM UNDER SLAB SO AS TO NOT INTERFERE WITH WINDOW FRAMING.	<ul> <li>FROZEN BEVERAGE DISPENSER IF APPLICABLE. COORDINATE WITH EQUIPMENT MANUFACTURER FOR EXACT REQUIREMENTS.</li> <li>ABOVE CEILING FOR WALL MOUNTED HME. SEE 5/E3.1.</li> <li>J-BOX FOR POWER AT HUB TABLE. CONDUIT SHALL BE ROUTED UNDERGROUND M W/ 2 # 12 AND 1#12 GND. STUB CONDUIT UP IN FLOOR TO END OF HUB TABLE. PRO INSTALL FLEX CABLE WIRING THROUGH STUB-UP CONDUIT INTO TUBING CHASE A TABLE. MAKE FINAL CONNECTIONS TO JUNCTION BOXES AND/OR RECEPTACLES I ON TABLE. COORDINATE LIGHTING INSTALLATION REQUIREMENTS WITH CONDUIT REFER TO E4.0 FOR LIGHTING INFORMATION. FIELD VERIFY AND COORDINATE WIT TABLE MANUFACTURER FOR EXACT REQUIREMENTS AND LOCATIONS PRIOR TO INSTALLATION.</li> </ul>
ALED O.N.Ú. L CIRCUITS NOT SHOWN ON EQUIPMENT SCHEDULE, CONTRACTOR SHALL DE CONDUCTOR AND CONDUIT SIZES AS SHOWN ON BRANCH CIRCUIT WIRING ULE SHOWN ON E2.2. IF SIZES DIFFER FROM N.E.C., THE MORE STRINGENT ( R) SIZE SHALL BE PROVIDED.	<ul> <li>FROZEN BEVERAGE DISPENSER IF APPLICABLE. COORDINATE WITH EQUIPMENT MANUFACTURER FOR EXACT REQUIREMENTS.</li> <li>ABOVE CEILING FOR WALL MOUNTED HME. SEE 5/E3.1.</li> <li>J-BOX FOR POWER AT HUB TABLE. CONDUIT SHALL BE ROUTED UNDERGROUND W/2 # 12 AND 1#12 GND. STUB CONDUIT UP IN FLOOR TO END OF HUB TABLE. PRO INSTALL FLEX CABLE WIRING THROUGH STUB-UP CONDUIT INTO TUBING CHASE A TABLE. MAKE FINAL CONNECTIONS TO JUNCTION BOXES AND/OR RECEPTACLES I ON TABLE. COORDINATE LIGHTING INSTALLATION REQUIREMENTS WITH CONDUIT</li> </ul>
ALED O.N.Ú. L CIRCUITS NOT SHOWN ON EQUIPMENT SCHEDULE, CONTRACTOR SHALL DE CONDUCTOR AND CONDUIT SIZES AS SHOWN ON BRANCH CIRCUIT WIRING ULE SHOWN ON E2.2. IF SIZES DIFFER FROM N.E.C., THE MORE STRINGENT (	<ul> <li>FROZEN BEVERAGE DISPENSER IF APPLICABLE. COORDINATE WITH EQUIPMENT MANUFACTURER FOR EXACT REQUIREMENTS.</li> <li>9 ABOVE CEILING FOR WALL MOUNTED HME. SEE 5/E3.1.</li> <li>10 J-BOX FOR POWER AT HUB TABLE. CONDUIT SHALL BE ROUTED UNDERGROUND V W/ 2 # 12 AND 1#12 GND. STUB CONDUIT UP IN FLOOR TO END OF HUB TABLE. PRO INSTALL FLEX CABLE WIRING THROUGH STUB-UP CONDUIT INTO TUBING CHASE A</li> </ul>
ALED O.N.Ú.	FROZEN BEVERAGE DISPENSER IF APPLICABLE. COORDINATE WITH EQUIPMENT MANUFACTURER FOR EXACT REQUIREMENTS.
	FROZEN BEVERAGE DISPENSER IF APPLICABLE. COORDINATE WITH EQUIPMENT
	(8) PROVIDE BOOST TRANSFORMER (208V, 1-PHASE IN, 240V, 1-PHASE OUT) FOR
DE ESCUTCHEON PLATES AND SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, G, AND FLOORS. DO NOT USE CAULKS OR EXPANSION FOAM FOR SEALANT.	7 LOCATE ELECTRICAL SERVICE EQUIPMENT PER GUIDLINES ON ARCHITECTURAL AND CIVIL DRAWINGS.
IALL PROVIDE A PREPRINTED SELF-ADHESIVE LABEL ON ALL POS RECEPTACLES G "POS USE ONLY".	6 INSTALL CONTROL CABLE FROM FREEZER/COOLER FAN COIL TO ROOF MOUNTED CONDENSOR.
JIT MAY RUN UNDER SLAB AT G.C.'S DISCRETION.	HEIGHT AND SPECIFICATIONS. REF DETAIL D. 5 LOCATED INSIDE SHELL OF HEATER.
T MEASURE/LOCATE OUTLETS ON DRAWINGS. USE DIMENSIONS PROVIDED.	HEIGHTS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
CTION 210.8(B)(3) NEC 2011, ALL 15 AND 20A, 120V RECEPTACLES IN COMMERCIAL INS ARE REQUIRED TO BE GFCI PROTECTED. THIS INCLUDES ISOLATED GROUND TACLES.	3 THE EC SHALL BE RESPONSIBLE FOR PROVIDING RECEPTACLES FOR THE EQUIPMENT IN THE V-LINE. EC SHALL COORDINATE REQUIEMENTS WITH EQUIPMENT MANUFACTURER. CONFIRM AND COORDINATE ALL MOUNTING
RICAL EQUIPMENT ENCLOSURES SHALL BE NEMA-1 FOR INTERIOR AND NEMA 3R (TERIOR. IN COASTAL REGIONS THE STANDARD FOR OUTSIDE SHALL BE NEMA-4X.	1 REFER TO ROOF PLAN. 2 INSTALL IN CONDUIT RUNNING ON SURFACE OF KITCHEN SIDE OF CABINETRY REA RECEPTACLES TO BE MOUNTED ON CEILING DROP DOWN BEHIND MENUBOARDS.
	TERIOR. IN COASTAL REGIONS THE STANDARD FOR OUTSIDE SHALL BE NEMA-4X. CTION 210.8(B)(3) NEC 2011, ALL 15 AND 20A, 120V RECEPTACLES IN COMMERCIAL NS ARE REQUIRED TO BE GFCI PROTECTED. THIS INCLUDES ISOLATED GROUND TACLES. T MEASURE/LOCATE OUTLETS ON DRAWINGS. USE DIMENSIONS PROVIDED. IIT MAY RUN UNDER SLAB AT G.C.'S DISCRETION. ALL PROVIDE A PREPRINTED SELF-ADHESIVE LABEL ON ALL POS RECEPTACLES

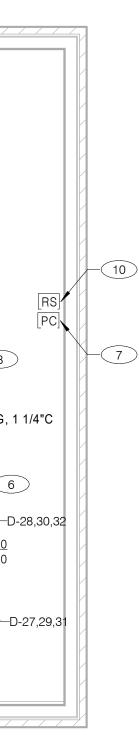
THE DEDICATED POS POWER CIRCUIT REQUIRES AN ISOLATED GROUND IN ADDITION TO THE NORMAL COMMON BUILDING GROUND. THE ISOLATED







			12 ELECT NECES EVAPO INSTAL
	J.	ARMOR CABLE (BX) ALLOWED WHERE ACCEPTABLE BY CODE.	PRIOR
	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.	9 CONTR FUSE S
	H.	REFER TO GENERAL NOTES SHEET E2.0 FOR IMPORTANT INFORMATION.	8 RTU'S CONVE
	G.	ALL CONDUITS TO AND FROM RTU SHALL BE ROUTED INSIDE OF RTU CURB. COORDINATE WITH RTU MFR RECOMMENDATIONS.	7 MOUN LIGHTI
	F.	ALL CONDUITS FROM EXHAUST FANS SHALL BE ROUTED INSIDE OF CURB.	6 REFER
	E.	REFER TO ELECT. EQUIP. SCHEDULE AND ELECT. ROUGH-IN PLAN.	5 1/2" C, CONNE
	D.	ALL EXPOSED ELECTRICAL CONDUITS SHALL PENETRATE ROOF MEMBRANE AT PIPE HOODS U.O.N.	4 CONNE
	C.	REFER TO MECH. DWGS FOR MECHANICAL EQUIPMENT ELECTRICAL REQ'S.	SWING
	Β.	ALL CUTS IN ROOFING MEMBRANE SHALL BE MINIMAL AND IN ACCORDANCE WITH ROOFING MFR'S AND INSTALLER'S REQ'S.	2 SPECIF INSTAL
	A.	NO CONDUIT SHALL BE FASTENED DIRECTLY TO OR THROUGH ROOFING MEMBRANE.	
-			





# **POWER ROOF PLAN** 1/4" = 1'-0"

E DETECTOR PROVIDED WITH UNIT. REFER TO MECHANICAL DRAWINGS.

IFIED RTU IS SUPPLIED WITH THRU THE BASE ELECTRICAL CONNECTIONS AND FACTORY LLED HACR CIRCUIT BREAKER WITH WEATHER TIGHT ENCLOSURES AND ACCESS THRU GING DOOR.

ER AND CONTROL ENTRY FROM BOTTOM OF UNIT.

NECT TO EF-1 RELAY. REF DETAIL 2/E6.0.

, WITH REQ'D CONDUCTORS TO J-BOX IN CEILING ABOVE ICE MACHINE. MAKE ECTION TO ICE MACHINE AND CONDENSING UNIT.

R TO POWER PLAN FOR CONTINUATION TO COOLER / FREEZER.

NT PHOTOCELL ON THE WEST SIDE OF THE BUILDING 14.0' ABOVE GRADE. CONNECT TO ING CONTROL PANEL AND RELAYS. SEE E6.0 AND E6.1.

SHALL BE PROVIDED WITH BUILT-IN DISCONNECT, SINGLE POINT WIRING AND ENIENCE OUTLET.

RACTOR SHALL VERIFY CIRCUIT BREAKER TYPE, STARTER, DISCONNECT SWITCH, AND SIZE (IF REQUIRED) WITH SELECTED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS R TO PLACING ORDER AND FURNISH AND INSTALL EVERYTHING AS REQUIRED.

SENSOR MOUNTED NEXT TO PHOTOCELL 14.0' ABOVE GRADE.



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HOOD FOR ICE MACHINE CONDENSERS. SEE ARCHITECTURAL ROOF PLAN.

TRICAL CONTRACTOR SHALL MAKE ALL ELEC. CONNECTIONS INCLUDING ALL SSARY INTERCONNECTIONS BETWEEN THE COMPRESSOR ON THE ROOF & THE ORATOR IN THE ICE MACHINE AS REQ'D. REFER TO THE MFR'S SHOP DWGS FOR EXACT LL. & INTERCONNECTION RQMTS, PRIOR TO ROUGH-IN INSTALL.

DINATE LOCATION OF J-BOX WITH SIGN VENDOR. SEE SCOPE OF WORK.

DINATE LOCATION OF J-BOX WITH TOWER VENDOR. SEE SCOPE OF WORK.



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CONTRACT DATE:

BUILDING GROUP: GROUND-UP FLOOR PLAN: ME - T40 **REVISION DATE:** SITE NUMBER: 313076 STORE NUMBER: 2018088.30



7931 LAPEER RD DAVISON, MI 48423





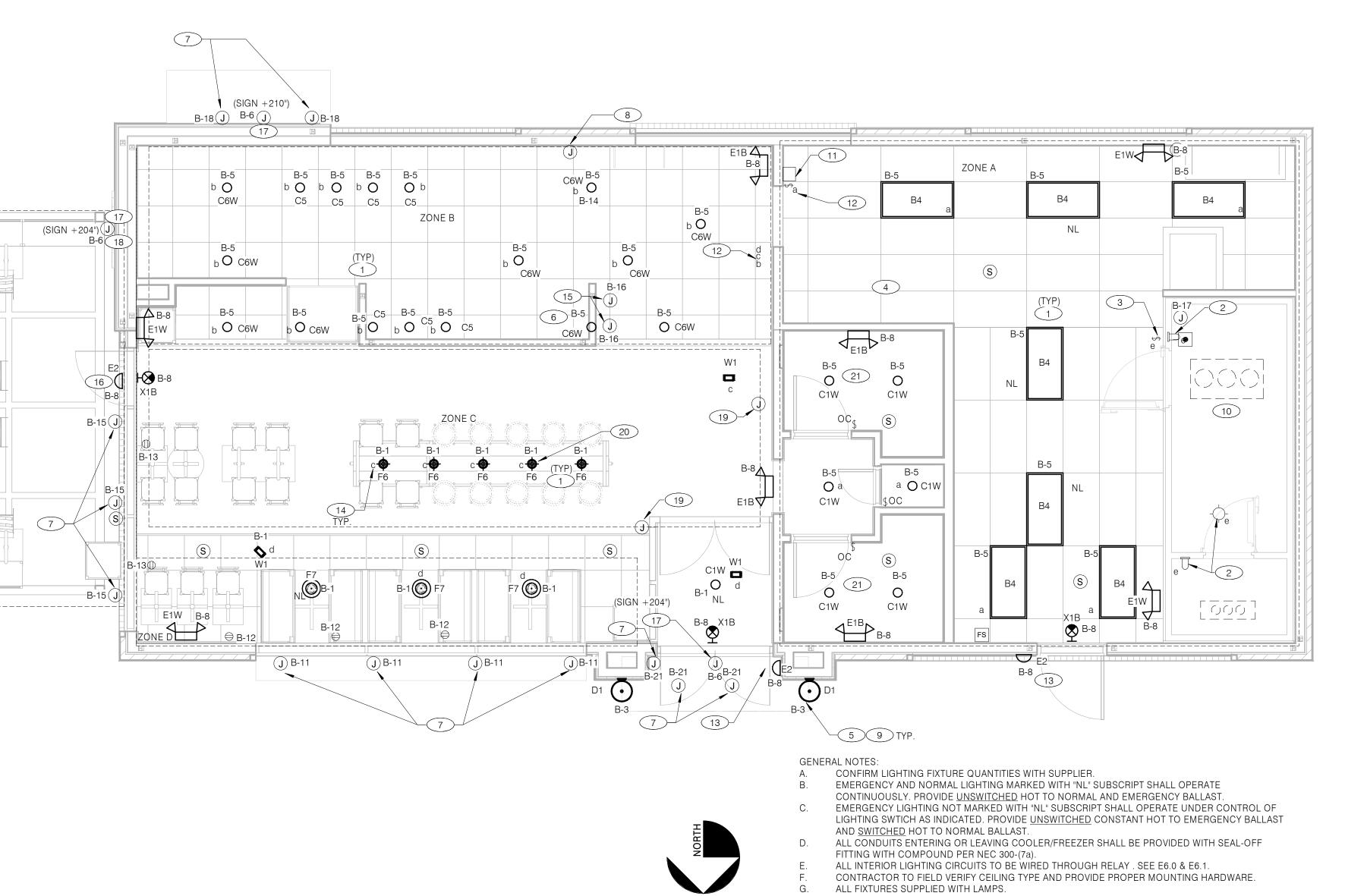


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NO.	QTY	LOCATION	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	MOUNTING	LAMP #/TYPE	BALLAST TYPE	ELECTRICAL DATA	REMARKS
A2	6	SITE	LSI INDUSTRIES	XALM-FT-LED-HO-CW-UE-BRZ	LED AREA LIGHTS FORWARD THROW, BRONZE FINISH		LED		120 V/1-193 VA	
A4	6	SITE	LSI INDUSTRIES	4SQB3-SO7G-25-S-BRZ	4" SQ 7GA 25FT POLE SINGLE DRILL (new locations)		LED			
B4	7	BOH	MAXLITE	MLFP-24EP-4841	2X4 LED TROFFER	RECESSED GRID	LED	NA	120 V/1-45 VA	-
C1W	7	OPEN KITCHEN AREA/ FOH	MAXLITE	B6IC-AT-W-LED14DR5630K95	LED DWNLT 14W 6" RECESSED 30K 90CRI WHITE TRIM, W/ ELITE B6IC-AT-W 6" IC AIR SHUT HOUSING	RECESSED	LED		120 V/1-14 VA	-
C5	7	OPEN KITCHEN AREA/ FOH	MAXLITE	RR6C20U30Z/RAF6	LED DOWNLIGHT 20W 6" RECESSED 30K 80CRI WHITE TRIM	RECESSED	LED	NA	120 V/1-20 VA	-
C6W	10	OPEN KITCHEN AREA/ FOH	MAXLITE	B6IC-AT-W- RR61927WC-L4	LED TRIM 19W 6" RECESSED 27K 90CRI WHITE TRIM, W/ ELITE B6IC-AT-W 6" IC AIR SHUT HOUSING	RECESSED	LED		120 V/1-19 VA	-
D1	2	EXTERIOR SCONCE	TROY	B2772	17"X14" WALL MOUNT SCONCE, OLD SILVER FINISH, MEDIUM BASE SOCKET, 100 WATT MAX	WALL CENTER OF BRACKET @14'-0" A.F.F.			120 V/1-60 VA	
E1B	4	FOH	ELITE	ELM-809-B	EMERGENCY LIGHT FROG EYE - BLACK	WALL, TOP @ 9'-4" U.O.N.	-	EM	120 V/1-12 VA	-
E1W	4	BOH	ELITE	ELM-809-W	EMERGENCY LIGHT FROG EYE - WHITE	WALL, TOP @ 9'-4" U.O.N.	-		120 V/1-12 VA	-
E2	3	EXTERIOR	LIGHTALARMS	CAM-SD-DB-CW	CAMRAY LED EM WALL MNT, DRK BRNZ, CLD WEATHER	UNIVERSAL	-	EM	120 V/1-16 VA	-
F6	5	HUB TABLE	KICHLER	43852OZ	9.75" GLASS PENDANT AVERY WITH MED BASE SOCKET RATED 100W MAX OLDE BRONZE FINISH	PENDANT, VARIES	1/LED AAMSCO LED-6W-ST64HYBRID-DIM	NA	120 V/1-6 VA	PLACEHOLDER INCLUDES LAMF
F7	3	FOH	HI-LITES	H24212-96-CB15-20WLBL-6OP	12" GALVANIZED PENDANT WITH BLACK CORD AND CANOPY MED BASE SOCKET	RECESSED	1/LED 10A19D0D27K		120 V/1-20 VA	-
W1	3	OPEN KITCHEN AREA/ FOH	ConTech Lighting	CTL84C2M27D-P-FA-84-P-LFI6SL LA18P 60MM	/ Stealth LED Wall Lighter Track Fixture	SURFACE	LED		Power Connector 120 V/1-35 VA	MOUNT IN MIDDLE OF CEILING TILE. AIM FIXTURE TO CENTER ON GRAPHIC WALL AT BOOTH
X1B	3	EXIT SIGN - BLACK	LIGHTALARMS	GRANNRB	LED UNIVERSAL MNTG THERMOPLASTIC EXIT, RED LETTERS, BLACK HSNG	UNIVERSAL	-/LED	EM	120 V/1-3 VA	-



1	UTILIZE TIME-CLOCK CONTROLS FOR DINING ROOM CIRCUIT AND E6.1
2	FOR LIGHTING FIXTURES, CONDUIT, CONDUCTORS AND INSTREFER TO SCOPE OF WORK.
3	FIXTURE AND SWITCH FACTORY INSTALLED WITH UNIT. G.C.
4	EXHAUST HOOD LIGHT FIXTURES SUPPLIED WITH HOOD AND J-BOX. COMPLETE CIRCUITING PER E6.0.
5	COORD. J-BOX LOCATION WITH WOOD FRAMING SO IT REMA FIXTURE. VERIFY MOUNTING HEIGHT WITH ARCH. DWGS.
6	OUTLET FOR MENU BOARD: SEE SHEET E3.0. VERIFY POINT PANELS WIRED IN SERIES. G.C. TO MAKE FINAL CONNECTIO
7	J-BOX FOR EVERBRITE LIGHTING SYSTEM IN CANOPY. PROVI FOR LIGHTING. COORDINATE WITH CANOPY MANUFACTURE
8	J-BOX FOR LIGHT TROUGH AGAINST WINDOW. VERIFY POINT EXTERIOR LIGHTING CONTACTOR.
9	REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR DIMI
10	SEAL ALL ELECTRICAL CONDUITS INTO THE WALK-IN COOLE
11	ALERT LIGHT : ONLY APPLIES WHEN A GEN IV POWER SOAK III POWER SOAK IS USED. SEE SHEET E3.0 FOR POWER REQU
12	PROVIDE LIGHT SWITCHES FOR CONTROL OF LIGHT FIXTURE WITH LIGHTING MANUFACTURER FOR TYPE OF SWITCH.
13	MOUNT "E2" AT 8'-0" A.F.G. TO CENTER OF FIXTURE. REFER TO ELEVATIONS.

Η.

ALL EXTERIOR NON-EMERGENCY LIGHT FIXTURES, BUILDING SIGNS, AND EXTERIOR SIGNS SHALL BE CONTROLLED THROUGH PHOTOCELL AND LIGHTING CONTROL RELAYS. SEE E6.0 & E6.1 FOR ADDITIONAL DETAILS.

## ELECTRICAL LIGHTING PLAN 1/4" = 1'-0"

JITS. REFER TO DRAWINGS E6.0 ISTALLATION RESPONSIBILITIES, TO COMPLETE CIRCUITING. ND MTD IN PRE-WIRED MAINS CONCEALED BEHIND T OF CONNECTION. 10 LIGHT ON. VIDE DISCONNECTING MEANS RER FOR ADDITIONAL DETAILS. NT OF CONNECTION. WIRE VIA IMENSIONED LOCATION OF ER. K IS USED. DISREGARD IF GEN QUIREMENTS. RES AS SHOWN. COORDINATE TO ARCHITECTURAL

(14) SUBSCRIPT "x" CORRESPONDS TO LIGHTING CONTROL SWITCH.

- 15 J-BOX FOR SECURITY (U-052) AND INTERIOR MENU BOARD (L-049) RESPECTIVELY.
- 16 MOUNT "E2" AT 8'-6" A.F.G. TO CENTER OF FIXTURE. REFER TO ARCHITECTURAL ELEVATIONS.
- 17 COORDINATE LOCATION OF J-BOX WITH SIGN VENDOR. PROVIDE DISCONNECTING MEANS AS REQUIRED. SEE SCOPE OF WORK.
- 18 COORDINATE LOCATION OF J-BOX WITH TOWER VENDOR. SEE SCOPE OF WORK.
- 19 PROVIDE J-BOX TO END OF UNISTRUT FOR ROUTING OF LIGHTIING CABLES TO PENDANT LIGHTING FIXTURES. SEE DETAIL C ON E4.0 FOR ADDITIONAL INFORMATION.
- 20 F6 FIXTURES TO BE MOUNTED FROM HUB TABLE CROSS BAR BY ELECTRICAL CONTRACTOR. COORDINATE HOLES AND WIRING WITH FURNITURE VENDOR. FIXTURES TO BE HUNG AT STAGGERED LENGTHS DOWN FROM THE CROSS BAR. REFER ARCH.

CIRCUIT RESTROOM LIGHTS AND OCCUPANCY SENSOR SWITCH AHEAD OF TIME CLOCK CONTROLLED RELAY.

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GPD GROUI

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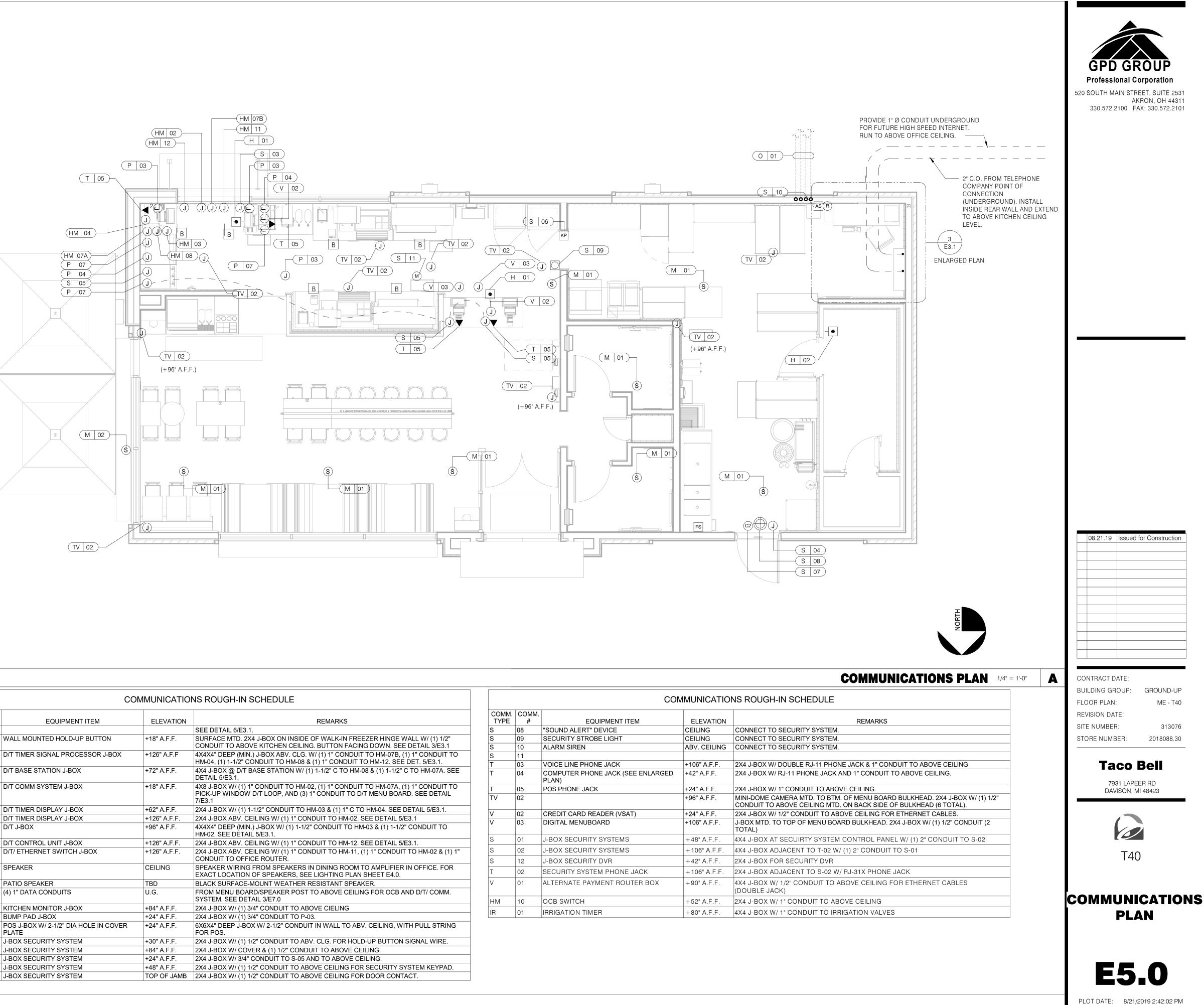
CONTRACT DATE: BUILDING GROUP: GROUND-UP FLOOR PLAN: ME - T40 REVISION DATE: SITE NUMBER: 313076 STORE NUMBER: 2018088.30

# **Taco Bell**









1) PATIO SPEAKER: DEDICATED WALL-MOUNT VOLUME CONTROL IN LOCATION OF HEAD-END (TYP. MANAGER'S OFFICE). 2) DINING ROOM SPEAKERS: DEDICATED WALL-MOUNT VOLUME CONTROL IN LOCATION OF HEAD-END (TYP. MANAGER'S OFFICE). 3) KITCHEN SPEAKERS: IF CONNECTED TO THE SOUND SYSTEM, CAN EITHER HAVE VOLUME CONTROL BUILT INTO THE SPEAKER ITSELF, OR HAVE A THIRD DEDICATED WALL-MOUNT VOLUME CONTROL IN LOCATION OF HEAD-END (TYP. MANAGER'S OFFICE). 4) RESTROOM SPEAKERS: VOLUME CONTROL BUILT INTO SPEAKER. C2 DOOR CONTACT (LINKED TO AUDIO / VISUAL ALARM) HOLD-UP BUTTON (MOUNT 2-1/2" BEHIND COUNTER EDGE) "SOUND ALERT" DEVICE MUSIC SYSTEM SPEAKERS KEYPAD (MTD AT 48" A.F.F.) SECURITY STROBE AS ALARM SIREN ABOVE CLG J-BOX B BUMP PAD (MOUNT AT FRONT 2" x 4" J-BOX W/ DATA PORTS COUNTER) MOTION DETECTOR FS HOOD FIRE SUPPRESSION OCCUPANCY SENSOR. CEILING SYSTEM PULL STATION MOUNTED. SEE DETAILS • USB OUTLET 1 & 2 / E7.0 COMMUNICATIONS LEGEND NTS С 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. SEE SHEETS E3.0 AND E3.1 FOR ELECT. INFO ON POS, SECURITY SYSTEM, CCTV SYSTEM, (OFFICE) COMPUTER, DRIVE-THRU TIMER AND DRIVE-THRU COMMUNICATION SYSTEM.

VOLUME CONTROL NOTES:

- 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.
- 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.

		CO	MMUNICATIO	NS ROUGH-IN SCHEDULE			COI	MMUNICATIC	NS ROUGH-IN
COMM. TYPE	COMM #	EQUIPMENT ITEM	ELEVATION	REMARKS	COMM TYPE	. COMM #	EQUIPMENT ITEM	ELEVATION	
Н	01			SEE DETAIL 6/E3.1.	S	08	"SOUND ALERT" DEVICE	CEILING	CONNECT TO SEC
Н	02	WALL MOUNTED HOLD-UP BUTTON	+18" A.F.F.	SURFACE MTD. 2X4 J-BOX ON INSIDE OF WALK-IN FREEZER HINGE WALL W/ (1) 1/2"	S	09	SECURITY STROBE LIGHT	CEILING	CONNECT TO SEC
				CONDUIT TO ABOVE KITCHEN CEILING. BUTTON FACING DOWN. SEE DETAIL 3/E3.1	S	10	ALARM SIREN	ABV. CEILING	CONNECT TO SEC
HM	02	D/T TIMER SIGNAL PROCESSOR J-BOX	+126" A.F.F	4X4X4" DEEP (MIN.) J-BOX ABV. CLG. W/ (1) 1" CONDUIT TO HM-07B, (1) 1" CONDUIT TO	S	11			
				HM-04, (1) 1-1/2" CONDUIT TO HM-08 & (1) 1" CONDUIT TO HM-12. SEE DET. 5/E3.1.	Т	03	VOICE LINE PHONE JACK	+106" A.F.F.	2X4 J-BOX W/ DOU
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 DETAIL 5/E3.1.	Т	04	COMPUTER PHONE JACK (SEE ENLARGED PLAN)	+42" A.F.F.	2X4 J-BOX W/ RJ-
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	Т	05	POS PHONE JACK	+24" A.F.F.	2X4 J-BOX W/ 1" C
				PICK-UP WINDOW D/T LOOP, AND (3) 1" CONDUIT TO D/T MENU BOARD. SEE DETAIL 7/E3.1	TV	02		+96" A.F.F.	MINI-DOME CAME CONDUIT TO ABO
HM	07A	D/T TIMER DISPLAY J-BOX	+62" A.F.F.	2X4 J-BOX W/ (1) 1-1/2" CONDUIT TO HM-03 & (1) 1" C TO HM-04. SEE DETAIL 5/E3.1.	V	02	CREDIT CARD READER (VSAT)	+24" A.F.F.	2X4 J-BOX W/ 1/2"
HM	07B	D/T TIMER DISPLAY J-BOX	+126" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-02. SEE DETAIL 5/E3.1	V	03	DIGITAL MENUBOARD	+106" A.F.F.	J-BOX MTD. TO TO
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 DETAIL 5/E3.1.					TOTAL)
HM	11	D/T CONTROL UNIT J-BOX	+126" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-12. SEE DETAIL 5/E3.1.	S	01	J-BOX SECURITY SYSTEMS	+48" A.F.F.	4X4 J-BOX AT SE
НМ	12	D/T/ ETHERNET SWITCH J-BOX	+126" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-11, (1) 1" CONDUIT TO HM-02 & (1) 1"	S	02	J-BOX SECURITY SYSTEMS	+106" A.F.F.	4X4 J-BOX ADJA
				CONDUIT TO OFFICE ROUTER.	S	12	J-BOX SECURITY DVR	+42" A.F.F.	2X4 J-BOX FOR S
Μ	01	SPEAKER	CEILING	SPEAKER WIRING FROM SPEAKERS IN DINING ROOM TO AMPLIFIER IN OFFICE. FOR EXACT LOCATION OF SPEAKERS, SEE LIGHTING PLAN SHEET E4.0.	Т	02	SECURITY SYSTEM PHONE JACK	+106" A.F.F.	2X4 J-BOX ADJA
М	02	PATIO SPEAKER	TBD	BLACK SURFACE-MOUNT WEATHER RESISTANT SPEAKER.	V	01	ALTERNATE PAYMENT ROUTER BOX	+90" A.F.F.	4X4 J-BOX W/ 1/2
0	01	(4) 1" DATA CONDUITS	U.G.	FROM MENU BOARD/SPEAKER POST TO ABOVE CEILING FOR OCB AND D/T/ COMM.					(DOUBLE JACK)
				SYSTEM. SEE DETAIL 3/E7.0	НМ	10	OCB SWITCH	+52" A.F.F.	2X4 J-BOX W/ 1" (
Р	03	KITCHEN MONITOR J-BOX	+84" A.F.F.	2X4 J-BOX W/ (1) 3/4" CONDUIT TO ABOVE CIELING	IR	01	IRRIGATION TIMER	+80" A.F.F.	4X4 J-BOX W/ 1" (
Р	04	BUMP PAD J-BOX	+24" A.F.F.	2X4 J-BOX W/ (1) 3/4" CONDUIT TO P-03.				100 A.I .I .	
Р	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	03	J-BOX SECURITY SYSTEM	+30" A.F.F.	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABV. CLG. FOR HOLD-UP BUTTON SIGNAL WIRE.					
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.					

### COMMUNICATIONS NOTES NTS

В

#### 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 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 <u>office or the optional Remote Occupancy Sensor or the</u> 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.

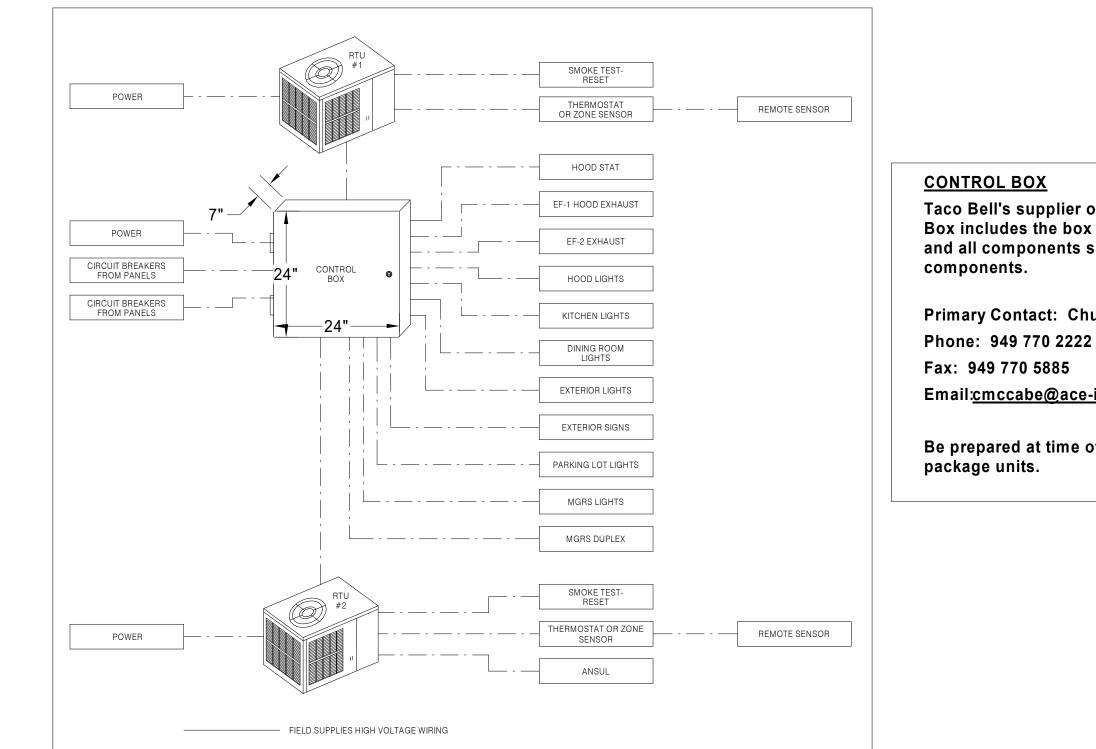
24.3" &RP,N1A24247.HAM.N1 FRONT,0

> XXX 3" WIRE DUCK

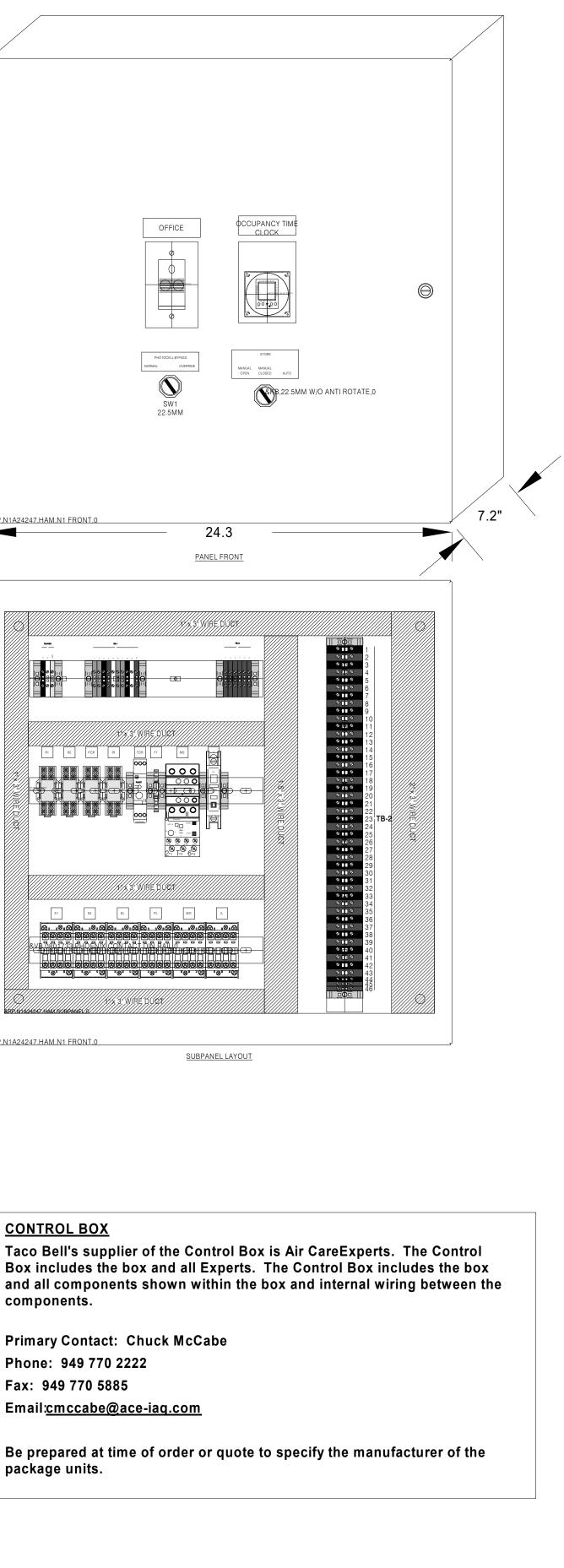
&RP,N1A24247.HAM.N1 FRONT,0

18-1

TACO BELL COMPONENT RELATIONSHIP



FIELD SUPPLIED LOW VOLTAGE WIRING





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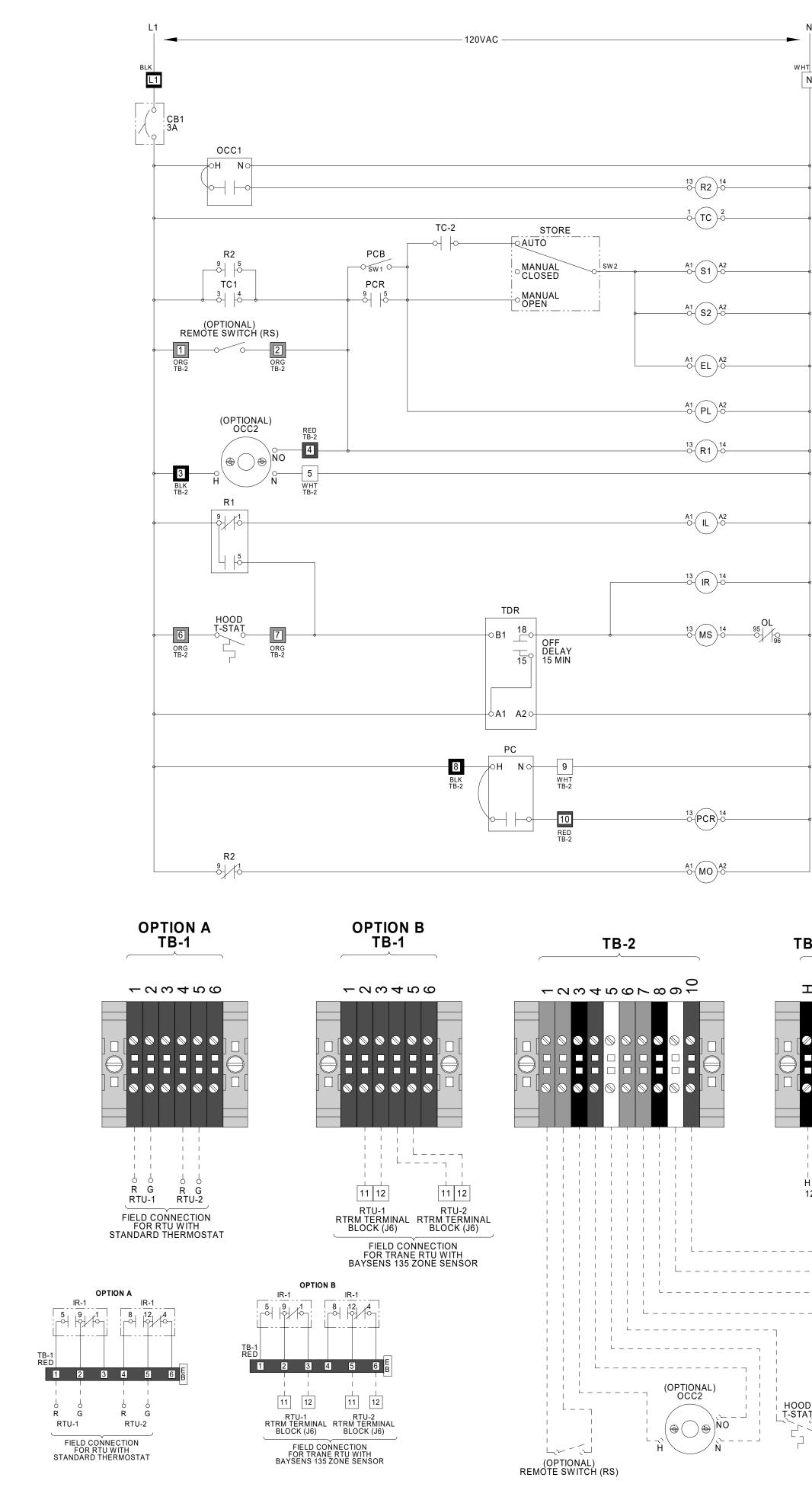
#### CONTRACT DATE: BUILDING GROUP: GROUND-UP FLOOR PLAN: ME - T40 **REVISION DATE:** SITE NUMBER: 313076 STORE NUMBER 2018088.30











N GND ►   —	— — FIELD WIRE BY OTHERS THIS PANEL ENCLOSURE IS RATED TYPE 1.	PANEL CIRCUIT NUMBER	BREAKER PANEL	CONTROL PANEL <b>TB-3</b>
WHT G	TO PRESERVE RATING USE TYPE 1 CONDUIT ENTRY HUBS	B-16		SIGNS #1 #10AWG S1 #10AWG 
		B-18		#10AWG    #10AWG       10AWG         10AWG       10AWG       10AWG   10AWG 
	This panel is Listed to applicable UL Standards and requirements by UL. Field wiring or field components are not Listed under this mark.	B-20	0 0	#10AWG =
¢		B-15		TB-3 #10AWG #10AWG #10AWG #10AWG BLK TB-3 RED TB-3 TB-3
		B-35		SIGNS #2 #10AW G S2 #10AW G
0		B-27		
		B-29		BLK TB-3 #10AWG 
  	CONTACTORS SIGNS	B-33	0 0	BLK TB-3 #10AWG =
S2 EL PL IL MS MC	EXTERIOR LIGHTS PARKING LOT LIGHTS INTERIOR LIGHTS MOTOR STARTER			TB-3 TB-3 EXTERIOR LIGHTING #10AWG EL #10AWG
	RELAYS RELAY #1 RELAY #2	B-7		
IR PC	INTERLOCK RELAY R PHOTOCELL RELAY	B-9		 BLK TB-3 #10AWG #10AWG #10AWG
TC OC	C1 OCCUPANCY SENSOR #1 C2 OCCUPANCY SENSOR #2	B-13		
PC O/( HS TD PC	B PHOTOCELL BYPASS SWITCH C OPEN-CLOSED SWITCH HOOD STAT R TIME DELAY RELAY	B-31		
		B-39		PARKING LIGHTS #10AWG PL #10AWG 
•		B-41		#10AWG #10AWG #10AWG #10AWG BLK RED TB-3 TB-3
		SPARE		#10AWG =
TB-PWR		SPARE		#10AWG    #10AWG 
		BREAKER A-19 SHALL ONLY BE SWITCHED WHEN A-19 ENERGY CODE MANDATES (CA-24)		MANAGERS OFFICE #10AWG MO #10AWG 
		(CA-24)		BLK TB-3 #10AWG #10AWG #10AWG RED RED
		B-1		TB-3 INTERIOR LIGHTS IL 
H N 1 120V 1		B-4		TB-3 #10AWG #10AWG #10AWG #10AWG #10AWG BLK TB-3 BLK TB-3 BLK TB-3 BLK TB-3
		SPARE	0 0	B-3 #10AWG #10AWG #10AWG #10AWG #10AWG #10AWG #10AWG #10AWG #10AWG #10AWG #10AWG #10AWG #10AWG #10AWG #10AWG HIG-3 #10AWG HIG-3 #10AWG HIG-3 #10AWG HIG-3 #10AWG HIG-3 #10AWG HIG-3 HIG-3 #10AWG HIG-3
		D-20		HIDAWG    #10AWG #10AWG    #10AWG =
	- → H N · +			MOTOR STARTER MS OL
HOOD I-STAT		D-28		
L À				#10AWG #10AWG #10AWG #10AWG #10AWG RED TB-3
				#10AWG  13  14   120V,5A #10AWG  13  14   46   46   46   18-3   1

		LOAD
	N	SIGNS #1 CIRCUIT #1
	N	SIGNS #1 CIRCUIT #2
	N	SIGNS #1 CIRCUIT #3
	N	SIGNS #1 CIRCUIT #4
	N	SIGNS #2 CIRCUIT #5
	N	SIGNS #2 CIRCUIT #6
	N	SIGNS #2 CIRCUIT #7
	N	SIGNS #2 CIRCUIT #8
	N	EXTERIOR LIGHTING CIRCUIT #1
	N	EXTERIOR LIGHTING CIRCUIT #2
	N	EXTERIOR LIGHTING CIRCUIT #3
	N	EXTERIOR LIGHTING CIRCUIT #4
	N	PARKING LIGHTS CIRCUIT #1
	N	PARKING LIGHTS CIRCUIT #2
	N	PARKING LIGHTS CIRCUIT #3
	N	PARKING LIGHTS CIRCUIT #4
		MANAGERS SWITCHED RECEPTACLE
	N	MANAGERS OFFICE LIGHT
	N	INTERIOR LIGHTS CIRCUIT #1
	N	INTERIOR LIGHTS CIRCUIT #2
	N	INTERIOR LIGHTS CIRCUIT #3
	N	EF-2 EXHAUST FAN #2
?		
#10AWG 45 RED TB-3 #10AWG	N	EF-1 EXHAUST FAN #1



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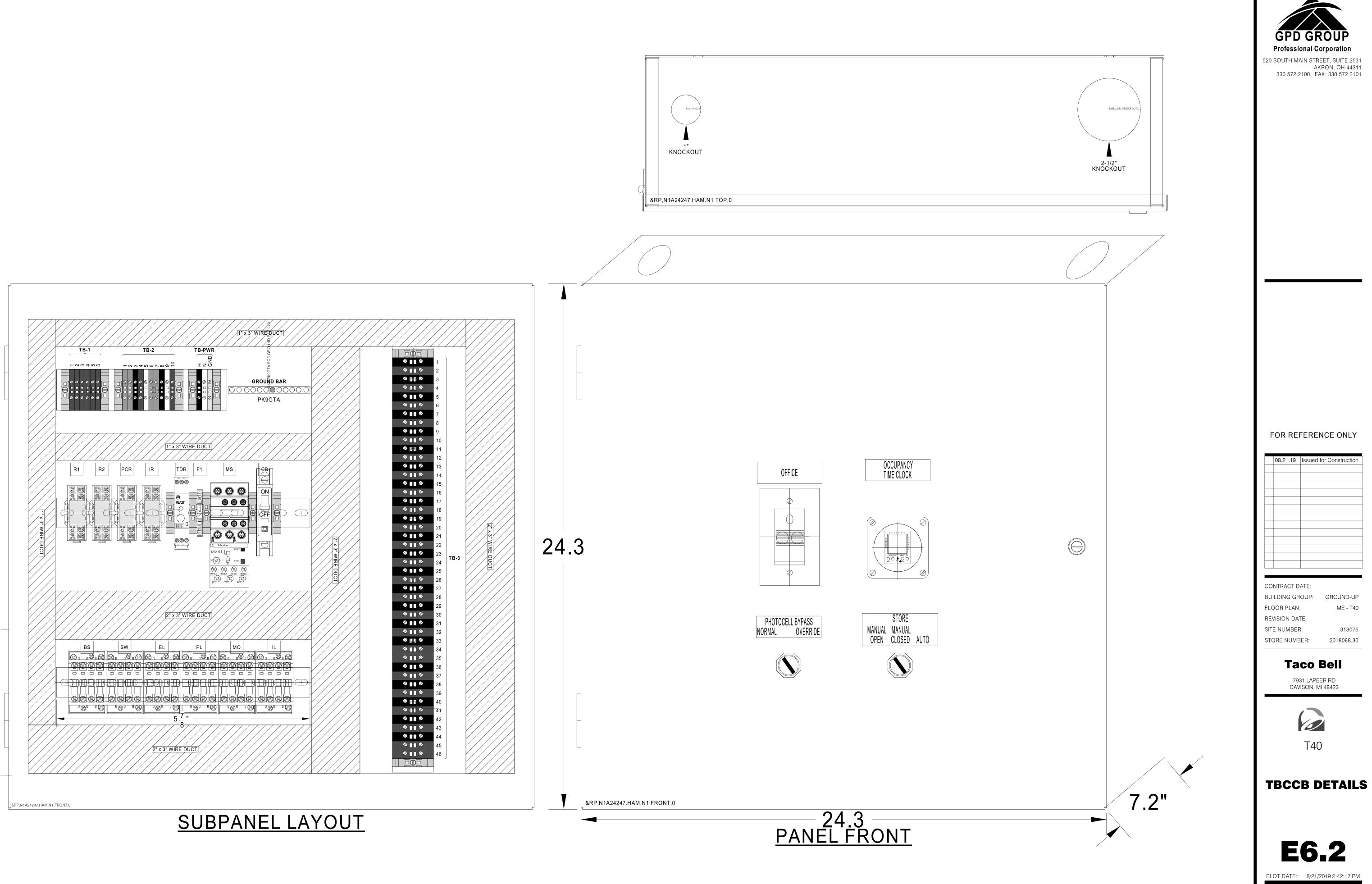
CONTRACT DATE:BUILDING GROUP:GROUND-UPFLOOR PLAN:ME - T40REVISION DATE:SITE NUMBER:SITE NUMBER:313076STORE NUMBER:2018088.30

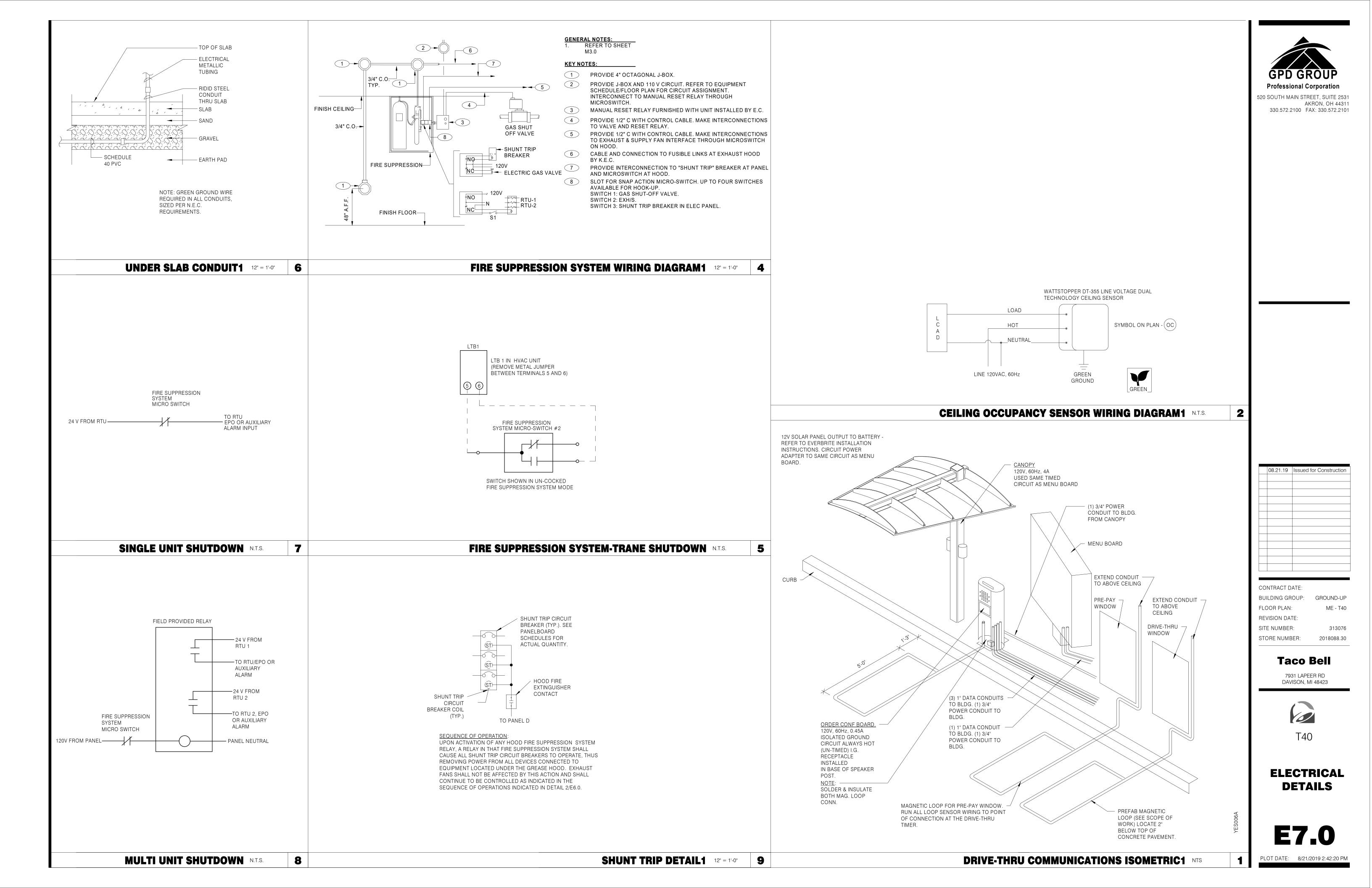












DESCRIPTION	SUPPLIER	A&D ITEM #	ORDERED BY	INSTALLED BY
Roof Access Ladder & Hatch (T50 only)	Precision	B-049 (Ladder) & B-050 (Hatch)	RSCS	GC
Door - Security	LockNet	B-101	RSCS	GC
Air Curtain (D/T Window)	Mars	B-151	RSCS	GC
Air Curtain (Service Door)	Mars	B-150	RSCS	GC
Exterior Menu Board & Preview Board Housings	Order Matic Corporation	-	Company or RSCS	Manufacturer (Local Installer)
Interior Menuboard	Stratacache	L-043	RSCS	Manufacturer
Exterior Menuboard Strip, Interior Menu Board Panels, POP	Taco Bell Marketing (represents supplier "Archway")	-	OWNER	OPS
Signage (Bldg Signs, Road Signs, Directional Signs)	Cummings Signs	VARIES	Company or RSCS	Manufacturer (Local Installer)
	Everbrite	VARIES	84 551	
	AGI	VARIES		
Canopies / Slat Walls	Cummings Signs	VARIES	Company or RSCS	Manufacturer (Local Installer)
	Everbrite	VARIES	-	
Destroom Assessories	AGI	VARIES	RSCS	GC
Restroom Accessories	Capitol Lighting	F-452 (if indicated in plan set), B-241, B-265, B- 275, B-290 (where occurs), B-291 (where occurs), B-300, B-305, B-405, B-253	RSCS	
Safe	Brinks	F-174	СМ	BRINKS
Security System	Тусо	U-063	RSCS	GC
Drive-thru Window	Quikserv	B-120	RSCS	GC
Drive-thru Clearance Bar / Portal	Cummings Signs	-	Company or RSCS	Manufacturer (Local Installer)
	Everbrite	-	1 '	
	AGI	-		
	NW Signs	-		
Drive-thru Sensor Loops	ERC Parts Inc.	-	Manufacturer	GC
P.O.S.	IBM	VARIES	RSCS	SSP
	NCR	VARIES	4	
	PAR - Preferred	VARIES		
Credit Card Payment System	Hughes Network Systems	-	OWNER	SSP
Order Confirmation Board (OCB)	Delphi RSCSplay Systems	-	RSCS	Manufacturer
	Hyperactive - Preferred	L-090	Dece	Monufacturar
Headsets	HME 3M Food Services Trad Dept	U-011	RSCS	Manufacturer
Order Confirmation Board (OCB) Canopy	Cummings Signs	- V-350	Company or RSCS	Manufacturer (Local Installer)
Conter Committation Board (CCB) Carlopy	Everbrite		Company of RSCS	
	AGI			
Kitchen Equipment	N. Wasserstrom (Franchise only)	VARIES	RSCS	GC (see General Comments)
	RSCS (Company stores only)	VARIES		
Production Line	Delfield	VARIES	RSCS	GC / Manufacturer (Local Installer)
	Carter Hoffman (EvO cabinets)	VARIES		
Kitchen Shelving / Workstations	I.S.S.	VARIES	RSCS	GC
Walk-In Cooler / Freezer (Panelized)	I.C.S.	W-059	RSCS	GC or Manufacturer (up to CM's RSCScretion)
	Norlake and Kolpak	VARIES		
Exhaust Hoods	Stratovent (preferred supplier)	E-107 / E-108	RSCS	GC
Drink RSCSpensers / Line Sets	Pepsi Maritana ka	-		Pepsi (Local installer)
Ice Machines	Manitowoc Ice Inc & Hoshisaki	S-513	CM / OWNER	Manufacturer (Local Installer)
Office Computer (Restaurant)	En Pointe Global Services	F-040, F-060	RSCS	SSP
Artwork	GFX VGS	VARIES	RSCS	GC
Décor	Seating Concept	-	RSCS	GC
Decol	FCI	VARIES		
	IDX (Company)	-	-	
Fruitista Machine	FBD Equipment Manufacturer - Preferred	VARIES	RSCS - Equipment; GC -	Service Agents - ICEE
	Cornelius	VARIES	Installation & Setup (notify	
		VARIES	vendor 2 weeks from install	
		VARIES	date)	
Iced Tea	Tetley	S-546	OWNER	GC / Supplier
CO2 - Bulk	CHART (bulk tank)	S-580	RSCS	Manufacturer (Local Installer)
	NU CO2 (CO2 and service)	S-580		
CCTV	MARTCO	U-039	RSCS	MARTCO
Lighting Control Panel - Exterior	Capitol Lighting	-	RSCS	GC
Exhaust Fan - Make Up Air Interlock & Interior Lighting Control Panel	Air Care Experts	-	Contractor	GC
Fire Suppression System	Ansul	-	GC	GC (Local Installer)
Hand Sinks	Aero	N-062	RSCS	GC
Water Filter	Shurflo	-	RSCS	GC (see Vendor Scope - Pepsi Drink System)
Water Heater	AO Smith (standard)	B-223	RSCS	GC
	Bradford White (alternate)	B-222	Dooo	
Water softener	3m Purification	B-200	RSCS	GC
HVAC - Test and Balance	Test and Balance Corp. Molink Corp	-		Determined by GC / CM / RCM
	Melink Corp Air Care Experts		Approved options - GC CM/RCM	
HVAC	Trane (Company stores)	-	GC / RSCS	GC
	Lennox			
	York International (Franchise only)	-	1	
Switchgear - Franchisee	Capitol Lighting	VARIES	RSCS	GC
Switchgear - Company	Capitol Lighting	VARIES		GC
n fann enne sour solfens a i 🕶 en anna gena s			CM at time of bid)	
Light Fixtures - Interior and Building	Capitol Lighting		RSCS	GC
Light Fixtures - Site	Capitol Lighting			GC
Telephone Communications	YUM! Telecom (Company stores)	-	ТВ	Manufacturer (Local Installer)
	By owner through local phone service provider (franchise)	-	Franchisee	Manufacturer (Local Installer)
	Maad Madia	F-131	TB / OWNER	Manufacturer (Local Installer)
Music System	Mood Media			
Music System Coffee Brewer Floor and Wall Tile	Bunn Creative Materials	S-547	RSCS GC	GC GC



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T40M-O ME - T40

313076 2018088.30







SCOPE OF WORK MATRIX

