PANDA EXPRESS

S8-23-D23503

N. RIVERSIDE & 2ND ST.
CLARKSVILLE, TN 37040

OWNER	ARCHITECT	PROJECT COORDINATOR	CIVIL/LANDSCAPE
DENNIS STONE PANDA EXPRESS, INC. 1683 WALNUT GROVE AVE, ROSEMEAD, CA 91770 T: 626.799.9898	CARRY D. McLAIN idGROUP 2641 IRVING BLVD. DALLAS, TX 75207 T: 214.638.6800	TOM RUD idGROUP 2641 IRVING BLVD. DALLAS, TX 75207 T: 214.638.6800	RAY FLAKE CIVIL ENGINEERING SERVICES P.O. BOX 1302 FAIRVIEW, TN 37062 T: 615.533.0401

STRUCTURAL	MECHANICAL, PLUMBING, ELECTRICAL
KATIA GOMEZ RONALD A. ROBERTS 2948 N. STEMMONS FREEWAY DALLAS, TX 75247 T: 214.637.6299	DENISE ADAMS MPW ENGINEERING 110 WEST 7TH ST. STE.600 TULSA, OK 74119 T: 918.582.4088

TEAM DIRECTORY

Scale= NTS G-001

PLANNING/ZONING	BUILDING DEPARTMENT	PUBLIC WORKS	GAS / ELECTRIC
RUTH RUSSEL REGIONAL PLANNING 329 MAIN ST. CLARKSVILLE, TN 37040 T: 931.645.7448 E: ruthrussell@cityofclarksville.com	MAT SMILEY BUILDING DEPARTMENT 329 MAIN ST. CLARKSVILLE, TN 37040 T: 931.645.7426 E: mat.smiley@cityofclarksville.com	JOSEPH GREEN CLARKSVILLE ST. DEPT. 119 10T ST. CLARKSVILLE, TN 37040 E: joseph.green@cityofclarksville.com	ELEC: CHRIS MORRIS CLARKSVILLE DEPT OF ELEC. T: 931.648.8151 E: chris.morris@cdelightband.com GAS: DANIEL COOK CLARKSVILLE GAS & WATER T: 931.645.7422 E: danny.cook@cityofclarksville.com

WATER / SEWER	FIRE DEPARTMENT	HEALTH DEPARTMENT	TELEPHONE COMPANY
BEN BROWDER CLARKSVILLE GAS & WATER 2215 MADISON ST. CLARKSVILLE, TN 37043 T: 931.645.7400 E: ben.browder@cityofclarksville.com	RICKY CUMBERLAND FIRE PREVENTION 821 FRANKLIN ST. CLARKSVILLE, TN 37040 T: 931.645.7462	ALEXANDER COLEMAN MONTGOMERY COUNTY HEALTH 330 PAGEANT LN. CLARKSVILLE, TN 37040 T: 931.648.5747 E: alexander.coleman@tn.gov	GEORGE BENJAMIN CDE LIGHBAND, BUSINESS T: 931.801.7161 E: george.benjamin@cdelightband.com

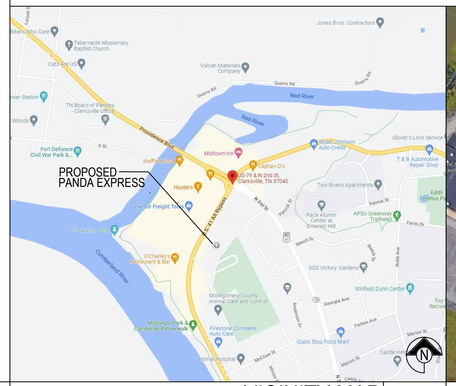
JURISDICTIONAL AUTHORITIES

Scale= NTS G-001

1. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FULLY EXAMINE THE SITE CONDITION, AND AVAILABLE UTILITIES AND TO NOTIFY THE OWNER'S REPRESENTATIVE, IN WRITING OF ANY AND ALL DISCREPANCIES BETWEEN THE SAID EXISTING CONDITIONS AND THESE DRAWINGS. NO CLAIMS FOR ADDITIONAL COMPENSATION SHALL BE MADE OR SHALL BE VALID UNLESS WRITTEN NOTIFICATION IS RECEIVED BY THE OWNER'S REPRESENTATIVE AND THE ADDITIONAL COMPENSATION IS APPROVED IN ADVANCE OF PROCEEDING WITH THE WORK.
2. IN ADDITION TO THE GENERAL NOTES LISTED HEREIN, A.I.A. DOCUMENT A201 GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION SHALL APPLY.
3. ALL WORK SHALL BE PERFORMED AS TO COMPLY WITH ALL GOVERNING STATUTES, ORDINANCES, REGULATIONS, CODES AND INSURANCE RATING BOARDS. NO WORK SHALL COMMENCE UNTIL ALL GOVERNMENTAL AND JURISDICTIONAL PERMITS AND APPROVALS ARE OBTAINED.
4. ALL WORK SHALL BE PERFORMED IN A FIRST CLASS MANNER AND SHALL BE IN GOOD AND USABLE CONDITION AT THE DATE OF COMPLETION THEREOF.
5. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR INSTALL OR PERMIT TO BE INSTALLED, ANY MATERIALS CONTAINING ASBESTOS.
6. THE TERM "OWNER" OR "TENANT" SHALL REFER TO PANDA EXPRESS AND ITS AGENTS OR REPRESENTATIVES. THE TERM "GENERAL CONTRACTOR" AND "G.C." SHALL REFER TO THE PERSON AND/OR PERSONS WHO HAVE CONTRACTED OR SUBCONTRACTED FOR THE WORK.
7. THE ABBREVIATION OF "N.I.C." INDICATES WORK AND OR MATERIAL THAT IS NOT IN THE CONTRACT OF THE GENERAL CONTRACTOR, HOWEVER THIS DOES NOT RELIEVE THE G.C. OF THE RESPONSIBILITY OF COORDINATION.
8. NOT USED.
9. THE LOCATIONS OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDIVIDUALLY VERIFIED BY THE OWNER OR HIS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
10. ALL WALL & CEILING CONSTRUCTION SHALL BE SUPPORTED BY STRUCTURE & NOT BY ROOF DECK IF APPLICABLE.
11. IT IS THE G.C.'S RESPONSIBILITY TO MAKE SURE EACH SUB HAS THE FULL SET OF DRAWINGS FROM WHICH TO BASE THEIR ESTIMATE. IF CONFLICTS ARISE AFTER THE BID THE G.C. ACCEPTS FULL RESPONSIBILITY FOR COST INCREASES IF THE SUB WAS NOT GIVEN THE FULL SET OF DRAWINGS.

GENERAL NOTES

Scale= NTS G-001



VICINITY MAP

Scale= NTS G-001

PROPOSED
PANDA EXPRESS
U.S. 41A ALT BYPASS
TENNESSEE AVE
Clarksville Montessori School
Montessori Academy
Clarksville Christian School
Clarksville Academy
Community Christian Church
Trinity Episcopal Church
Clarksville Presbyterian Church
Clarksville Seventh-day Adventist Church
Clarksville Church of Christ
Clarksville Baptist Temple
Clarksville Church of the Nazarene

GENERAL CONDITIONS FOR THE CONTRACT FOR CONSTRUCTION

ARTICLE 1 - GENERAL PROVISIONS

1. THE STANDARD FORM OF GENERAL CONDITIONS, CURRENT EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS, DOCUMENT NO. A-201, ARE HEREBY MADE A PART OF THESE SPECIFICATIONS AND SHALL APPLY THE SAME AS IF REPEATED HERE IN FULL. COPIES OF SAME SHALL BE ON FILE AT THE OFFICE OF THE ARCHITECT.

2. ALL INTERESTED PARTIES SHALL BE GOVERNED BY THOSE GENERAL CONDITIONS IN ALL MATTERS PERTAINING TO THIS PROJECT, DURING THE PERIOD OF CONSTRUCTION, AND PARTICIPATION IN THE PROJECT WILL BE CONSIDERED PRESUMPTIVE EVIDENCE OF THE PARTICIPANT'S FULL UNDERSTANDING OF, AND AGREEMENT WITH, THE CONDITIONS OF THE REFERENCED GENERAL CONDITIONS.

3. THE GENERAL CONDITIONS, SPECIAL PROVISIONS, GENERAL REQUIREMENTS, AND TECHNICAL SPECIFICATIONS, ALONG WITH THE OTHER CONDITIONS WHICH FOLLOW, AND AS PROVIDED, AS WELL AS ALL APPLICABLE PROVISIONS OF THE SPECIFICATIONS, FORM A PART OF THE CONTRACT AND SHALL GOVERN EACH CONTRACTOR ENGAGED IN WORK ON THE PROJECT WHETHER THE WORK BE LET UNDER SEPARATE CONTRACTS OR UNDER A SINGLE CONTRACT.

4. BASIC DEFINITIONS:
THE CONTRACT DOCUMENTS CONSIST OF THE AGREEMENT BETWEEN OWNER AND CONTRACTOR, CONDITIONS OF THE CONTRACT AND ALL DOCUMENTS LISTED BELOW.

THE CONTRACT DOCUMENTS SHALL INCLUDE: DRAWINGS AS LISTED IN THE INDEX OF THIS SET. SPECIFICATION DIVISION 1-16 INCLUSIVE. ALL MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. EQUIPMENT INSTALLATION HAND BOOK.

5. PHRASES USED IN THE SPECIFICATIONS ARE DEFINED AS FOLLOWS:
"AS SHOWN" - AS SHOWN ON THE ACCOMPANYING DRAWINGS.

"PROVIDE" - PROVIDE AND INSTALL COMPLETE, WITH ALL NECESSARY ACCESSORIES AND INCIDENTAL MATERIALS AND SUPPLIES.

"PROVIDED BY OWNER" - MATERIALS OR GOODS WILL BE DELIVERED F.O.B. JOBSITE BY THE OWNER AT NO EXPENSE TO THE GENERAL CONTRACTOR. UNLOADING, STORAGE, INSTALLATION, AND/OR ASSEMBLY OF ITEMS "PROVIDED BY OWNER" SHALL BE BY GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
"INSTALL" - INSTALL ITEMS, COMPLETE, PROVIDING ALL INCIDENTAL AND NECESSARY SUPPLIES AND MATERIALS.

"GENERAL CONTRACTOR" - THE GENERAL CONTRACTOR OR ANY OR ALL OF HIS VARIOUS SUBCONTRACTORS.

"OWNER" - ALL GENERAL CONDITIONS REFERENCES TO "OWNER" SHALL REFER TO PANDA EXPRESS, INC.

"CONTRACTOR" AND "GENERAL CONTRACTOR" AS STATED IN THESE DOCUMENTS REFER TO THE SAME ENTITY.

ARTICLE 2 - INSURANCE

THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE REQUIRED TO OBTAIN THE FOLLOWING INSURANCES, AND AT THEIR REQUEST FURNISH EVIDENCE TO PANDA EXPRESS. ALL INSURANCE SHALL NAME PANDA RESTAURANT GROUP, INC., AND THE ARCHITECTS. AS ADDITIONAL INSURED PARTIES.

WORKMAN'S COMPENSATION INSURANCE IN ACCORDANCE WITH THE LAWS OF THE STATE IN WHICH THE PROPERTY IS LOCATED AND PANDA EXPRESS REQUIREMENTS. PANDA EXPRESS SHALL KEEP A COPY IN FILE ALL TIME.

COMPREHENSIVE GENERAL LIABILITY INSURANCE INCLUDING CONTRACTUAL LIABILITY WITH LIMITS SET FORTH BY THE PANDA EXPRESS.

AUTOMOBILE LIABILITY INSURANCE INCLUDING CONTRACTUAL LIABILITY AS SET FORTH BY THE PANDA EXPRESS.

BUILDER'S RISK INSURANCE IN THE AMOUNT OF THE ESTIMATED COST OF THE PROJECT.

THE CONTRACTOR AGREES TO INDEMNIFY AND SAVE HARMLESS PANDA EXPRESS, ITS AGENTS, SERVANTS, AND EMPLOYEES, AND THE OWNER'S ARCHITECT AND ENGINEER FROM AND AGAINST ANY AND ALL LIABILITY OR DAMAGE TO PROPERTY OCCASIONED BY ANY ACT OR OMISSION OF THE CONTRACTOR, HIS SUBCONTRACTORS, SERVANTS, OR EMPLOYEES, INCLUDING ANY AND ALL EXPENSE, LEGAL OR OTHERWISE, WHICH MAY BE INCURRED BY PANDA EXPRESS, ITS AGENTS SERVANTS, OR EMPLOYEES IN THE DEFENSE OF ANY CLAIM, SETTLEMENT OR SUIT.

ARTICLE 3 EXTRA WORK

1. ANY AND ALL WORK WHICH IS PERFORMED BY THE CONTRACTOR, OR BY ANY SUBCONTRACTOR, WITHOUT HAVING SPECIFIC APPROVAL FROM PANDA EXPRESS IN WRITING, SHALL BE PERFORMED BY SAID CONTRACTOR AT HIS OWN RISK WITHOUT ANY OBLIGATION OR RESPONSIBILITY OF PANDA EXPRESS OR THE ARCHITECT. ALL WORK WHICH IS ABOVE AND BEYOND THE SCOPE OF THE DRAWINGS AND SPECIFICATIONS, OR ANY PART OF THE CONSTRUCTION DOCUMENTS, MUST BE SPECIFICALLY AUTHORIZED BY PANDA EXPRESS IN WRITING. ALL REQUESTS FOR ADDITIONAL PAYMENTS MUST BE APPROVED BY THE OWNER PRIOR TO THE START OF THAT WORK.

2. THE FOLLOWING GENERAL REQUIREMENTS SUPPLEMENT AND/OR SUPERSEDE THE FOREGOING GENERAL AND SUPPLEMENTARY CONDITIONS FOR CONTRACT WORK AND ARE HEREBY CONSIDERED A PART OF THE CONTRACT DOCUMENTS.

DIVISION 1 GENERAL REQUIREMENTS

1. SCOPE

ALL OF THE WORK UNDER EACH HEADING OF THESE SPECIFICATIONS SHALL BE GOVERNED BY THE GENERAL CONDITIONS, SPECIAL PROVISIONS, THE DRAWINGS AND THE SPECIFICATIONS, AS WELL AS THE FOLLOWING GENERAL REQUIREMENTS

THE WORK UNDER EACH HEADING OF THESE SPECIFICATIONS SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES NECESSARY FOR AND SAID HEADING AS INDICATED ON THE DRAWINGS, SET FORTH IN THE SPECIFICATIONS, OR OTHERWISE REQUIRED.

WORK DONE HEREUNDER INCLUDES FURNISHING ALL LABOR, MATERIAL SERVICES, AND EQUIPMENT NECESSARY AND/OR INCIDENTAL TO PERFORM ALL WORK THROUGH THE PROPER COMPLETION OF ALL WORK AS MAY BE FURTHER SPECIFIED AND/OR SHOWN ON THE PLANS, OR OTHERWISE REQUIRED.

2. CONFLICTS BETWEEN DOCUMENTS

IN CASE OF CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS THE CONTRACTOR WILL BE DEEMED TO HAVE ESTIMATED ON, AND AGREED TO PROVIDE, THE GREATEST QUANTITY AND BETTER QUALITY OF MATERIALS AND WORK.

INCLUDE GENERAL CONSTRUCTION, ELECTRICAL, PLUMBING, HVAC, AND INSTALLATION OF ALL SUCH WORK EXCEPT AS HEREINAFTER MAY BE REQUIRED.

3. ITEMS FURNISHED BY PANDA AND INSTALLED BY GENERAL CONTRACTOR

IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO RECEIVE, CHECK AND CONFIRM THE ARRIVAL IN GOOD ORDER, OF ALL ITEMS CALLED FOR TO BE FURNISHED BY PANDA EXPRESS AND INSTALLED BY THE CONTRACTOR.

THE CONTRACTOR SHALL NOTIFY PANDA EXPRESS (IN WRITING) OF ANY SUCH ITEMS MISSING OR DAMAGED WITHIN 3 DAYS OF RECEIVING DATE. FAILURE TO SO NOTIFY PANDA EXPRESS WILL BE CONSIDERED PROOF PRESUMPTIVE THAT ALL SAID ITEMS HAVE ARRIVED UNDAMAGED, AND IN THE PROPER QUANTITIES, AND IT SHALL THEN BE THE CONTRACTOR'S RESPONSIBILITY (AT HIS OWN COST) TO PROMPTLY REORDER, REPLACE AND/OR REPAIR ANY SUCH ITEMS NEEDED FOR THE PROPER COMPLETION OF THIS PROJECT, ON THE AGREED TO DATE OF COMPLETION.

4. MEASUREMENTS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR AN ACCURATE TAKING OF JOB SITE MEASUREMENTS, VERIFYING SAME, AND PROMPTLY FURNISHING EXACT JOB SITE MEASUREMENTS TO ALL PARTIES REQUIRING SAME. CONTRACTOR MUST NOTIFY PANDA EXPRESS AND THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY. THE CONTRACTOR SHALL CHECK SALES CASEWORK SHOP DRAWINGS AS TO CORRECT ANGLES AND FIT TO THE EXISTING SPACE AS SHOWN. THE CONTRACTOR SHALL PERMANENTLY LAYOUT THE CASEWORK ON THE FLOOR PRIOR TO THE CONSTRUCTION OF WALL, CEILING, LIGHT FIXTURES, ETC.

WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.

5. SUBSTITUTIONS

BIDDERS MAY OFFER SUBSTITUTIONS FOR ANY ITEM SPECIFICATION BY SUBMITTING IN WRITING AS OUTLINED IN SPACE PROVIDED ON PROPOSAL FORM.

IT SHALL BE UNDERSTOOD BY ALL HEREIN CONCERNED THAT ANY PROPOSAL SUBSTITUTION SHALL HAVE THE WRITTEN APPROVAL OF ARCHITECT AND/OR OWNER'S REPRESENTATIVE, BEFORE BEING USED BY CONTRACTOR, OTHERWISE IT WILL BE ASSUMED THAT THE CONTRACTOR'S TOTAL BID IS BASED UPON THE MATERIAL OR ITEM OF EQUIPMENT SPECIFIED.

6. EXAMINATION OF SITE AND BUILDING

BEFORE SUBMITTING A PROPOSAL, EACH BIDDER SHALL EXAMINE ALL DOCUMENTS, VISIT THE SITE, VERIFYING ANY SPECIAL CHARGES OR REQUIREMENTS, COMPARING EACH TO THE OTHER AND INFORMING THEMSELVES OF ALL CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. INCLUDE ALL RELEVANT MATTERS WHICH MAY AFFECT THE WORK OR THE BIDDING. EACH BIDDER SHALL BASE HIS PROPOSAL ON MATERIAL, METHODS AND/OR EQUIPMENT COMPLYING WITH THE SPECIFICATIONS AND DRAWINGS.

THE WORDS "THE CONTRACTOR SHALL" ARE INTENTIONALLY OMITTED FROM THE SPECIFICATIONS. WHERE DIRECTIONS OR INSTRUCTIONS ARE STATED, WITHOUT SPECIFIC REFERENCE AS TO WHO IS RESPONSIBLE, THE INFERENCE IS INTENDED TO BE THE CONTRACTOR FOR THE WORK IN THE SPECIFICATION SECTION IN WHICH THE DIRECTIONS OR INSTRUCTIONS ARE INTENDED.

7. CODES AND STANDARDS

ALL WORK, MATERIALS AND INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH ALL ORDINANCES, STATE AND LOCAL BUILDING CODES, LATEST EDITION, OF THE AUTHORITIES HAVING JURISDICTION.

DESIGN LOADS: LOADS AND CODE RESTRICTIONS FOR ALL DESIGN CONSIDERATIONS SHALL CONFORM TO THE LOCAL AND STATE CODES, AND ALL GOVERNING CODES.

8. PERMITS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER APPLICATION FOR AND SECURING OF ALL NECESSARY TRADE PERMITS, AS WELL AS THE OBSERVANCE OF ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL LAWS, REGULATIONS OR ORDINANCES AND SHALL INCLUDE IN THEIR PROPOSAL COST OF SAME.

9. INSTALLATION OF MATERIALS AND EQUIPMENT

ATTENTION IS HEREBY DIRECTED TO THE FOLLOWING REQUIREMENT FOR EACH PRIME AND SUBCONTRACTOR: THAT THE APPLICATION OF A MATERIAL AND/OR EQUIPMENT ITEM TO UNSATISFACTORY WORK INSTALLED BY OTHERS, CONSTITUTES ACCEPTANCE OF THAT WORK AND ASSUMPTION OF FULL RESPONSIBILITY FOR PRIOR TO STARTING THE SPECIFIC APPLICATION, NOTIFY IN WRITING THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE OF ANY DEFECT OR DEFICIENCY WHICH WOULD IMPAIR COMPLETE AND SATISFACTORY APPLICATIONS OR INSTALLATION OF HIS WORK OR GUARANTEE.

MANUFACTURER'S INSTRUCTIONS:
WHERE INSTALLATIONS INCLUDE MANUFACTURED PRODUCTS, COMPLY WITH MANUFACTURER'S APPLICABLE INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLATION, TO THE EXTENT THESE ARE MORE EXPLICIT OR MORE STRINGENT THAN REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS.

PROVIDE ATTACHMENT AND CONNECTION DEVICES AND METHODS FOR SECURING WORK PROPERLY AS IT IS INSTALLED; TRUE TO LINE AND LEVEL, AND WITHIN RECOGNIZED INDUSTRY TOLERANCES IF NOT OTHERWISE INDICATED. ALLOW FOR EXPANSIONS AND BUILDING MOVEMENTS.

VISUAL EFFECT:
PROVIDE UNIFORM JOINT WIDTHS IN EXPOSED WORK, ORGANIZED FOR BEST POSSIBLE VISUAL EFFECT. REFER QUESTIONABLE VISUAL-EFFECT CHOICES TO ARCHITECT/OWNER'S REPRESENTATIVE FOR FINAL DECISION. RECHECK MEASUREMENTS AND DIMENSIONS OF THE WORK, AS AN INTEGRAL STEP OF STARTING EACH INSTALLATION.

MOUNTING HEIGHTS:
WHERE MOUNTING HEIGHTS ARE NOT INDICATED, MOUNT INDIVIDUAL UNITS OF WORK AT INDUSTRY-RECOGNIZED STANDARD MOUNTING HEIGHTS FOR APPLICATIONS INDICATED. REFER QUESTIONABLE MOUNTING HEIGHT CHOICES TO ARCHITECT/OWNER'S REPRESENTATIVE FOR FINAL DECISION. CONFORM WITH APPLICABLE ACCESSIBILITY CODES WHERE REQUIRED.

10. PROTECTION AND CLEAN-UP

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PROTECTION OF ADJACENT ITEMS AND SURFACES FROM DAMAGE RESULTING FROM THE FURNISHING OR INSTALLATION OF HIS WORK AND SHALL PROMPTLY REPLACE, AT HIS OWN COST, SUCH DAMAGED WORK. HE SHALL ALSO BE RESPONSIBLE FOR THE PROPER PROTECTION OF HIS AND OTHERS WORK FROM DAMAGE BY ANY INCLUDING FREEZING OR OVERHEATING. USE PLASTIC COVERING OVER FURNITURE, DISPLAY CASES, EQUIPMENT AND FINISHES. THE CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE PREMISES ON A DAILY BASIS; ALL DUST AND CONSTRUCTION DEBRIS ARE TO BE REMOVED. ANY BROKEN, DAMAGED, MARRED, UNCLEAN, OR OTHERWISE IMPERFECT WORK SHALL BE CORRECTED BY THE CONTRACTOR BEFORE HIS WORK SHALL BE CONSIDERED COMPLETE. USE DUST BARRIERS.

UPON COMPLETION OF THE WORK CONTRACTOR SHALL CLEAN INTERIOR AND EXTERIOR OF ALL GLASS AND GLAZING, FLOORS, WALLS AND CEILING SURFACES, ELECTRICAL FIXTURES, MECHANICAL EQUIPMENT, ETC.; IT IS NECESSARY TO REMOVE ALL DIRT, STAINS, AND MARKS. THE SIGNS, GLASS AND WOOD SHALL BE CLEANED AND POLISHED. THE STORE SHALL BE MADE CLEAN AND FIT FOR IMMEDIATE OCCUPANCY BY AN INDEPENDENT CLEANING AGENT, WITH THE APPROVAL OF PANDA EXPRESS, AT THE CONTRACTOR'S EXPENSE.

GENERAL CONTRACTOR SHALL SUPERVISE AND SCHEDULE PROPER INSTALLATION OF ALL PARTS OF WORK PERTAINING TO A FINISHED PRODUCT BY HIM OR BY THE OWNER.

GENERAL CONTRACTOR SHALL SUPERVISE AND SCHEDULE PROPER INSTALLATION OF ALL PARTS OF WORK PERTAINING TO A FINISHED PRODUCT BY CONTRACTOR, SUBCONTRACTORS OR PANDA EXPRESS.

11. GUARANTEE WARRANTY

THE CONTRACTOR SHALL GUARANTEE THE WORK TO BE FREE FROM DEFECTS OF MATERIALS OR WORKMANSHIP, INCLUDING DISCOLORATION, RATTLING AND LEAKING, FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL PAYMENT. APPLICATION BY THE CONTRACTOR FOR FINAL PAYMENT SHALL BE CONSIDERED AS PRESUMPTIVE EVIDENCE OF HIS FULL UNDERSTANDING OF AND AGREEMENT WITH CONDITIONS OF THE GUARANTEE PROVISION, AND HE SHALL REMOVE AND REPLACE WITH NEW, AT HIS OWN EXPENSE, ALL SUCH WORK OR MATERIALS FOUND BY PANDA EXPRESS'S REPRESENTATIVE TO BE DEFECTIVE WITHIN THE GUARANTEE PERIOD.

12. SUBCONTRACTORS

THE CONTRACTOR AGREES THAT HE IS FULLY RESPONSIBLE TO THE OWNER FOR THE ACTS AND OMISSIONS OF HIS SUBCONTRACTORS AND OF PERSONS DIRECTLY EMPLOYED BY HIM. NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE ANY CONTRACTUAL RELATION BETWEEN ANY SUBCONTRACTOR AND PANDA EXPRESS. THE CONTRACTOR SHALL COOPERATE WITH PANDA AND OTHER CONTRACTORS PERFORMING WORK UNDER SEPARATE CONTRACTS TO ENSURE PROJECT PROGRESS ACCORDING TO SCHEDULE. THE CONTRACTOR SHALL COORDINATE WORK FOR THE VARIOUS TRADES INCLUDING PANDA EXPRESS'S VENDORS.

13. TEMPORARY FACILITIES

PROVIDE AND COMPLETE ALL PRELIMINARY WORK AND TEMPORARY CONSTRUCTION REQUIRED AS INDICATED AND REQUIRED.

TEMPORARY BARRICADES:
INSTALL TEMPORARY BARRICADE AS REQUIRED BY CITY OFFICIALS OR MALL MANAGEMENT IN MANNER STIPULATED BY SAME.

LIGHT AND POWER SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR OR REUSE EXISTING FROM LOCATION OF LANDLORD'S SERVICE AND PAY ALL COST FOR SAME, FOR ALL CONTRACTOR(S) TO SUBJECT SPACE.

WATER SUPPLY:
THE CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR PERMANENT WATER SERVICE, WATER METER, AND PRESSURE REGULATOR FOR ALL PURPOSES OF CONSTRUCTION, PAYING ALL COSTS IN CONNECTION WITH SAME, AND FOR ALL WATER USED. THIS SHALL INCLUDE ALL MEANS OF CONVEYING SAME TO PLACE WHERE REQUIRED.

ELECTRICITY:
THE CONTRACTOR SHALL MAKE ALL NECESSARY APPLICATIONS, PAY ALL DUES AND CHARGES, OBTAIN NECESSARY PERMITS, PROVIDE AND MAINTAIN ELECTRICAL ENERGY FROM DEVELOPERS PERMANENT ELECTRICAL FACILITIES FOR LIGHTING, POWER FOR ALL ELECTRIC TOOLS AND EQUIPMENT REQUIRED IN CONSTRUCTION OF ALL BRANCHES OF THE WORK AND PAY FOR ALL CURRENT USED.

FIRE PROTECTION:
OWNER'S CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS WITHIN THE PREMISES AS REQUIRED BY CODE AND/OR INSURANCE COMPANIES, OR VERIFY THAT ONE IS EXISTING IN THE CASE OF REMODELING. DISCONNECT AND SEAL UTILITIES SERVING STRUCTURE TO BE DEMOLISHED, PRIOR TO START OF DEMOLITION WORK.

14. STRICTLY PROHIBITED WORK AND PRACTICES

INSTALLATION OF ANY COMBUSTIBLE MATERIALS ABOVE FINISHED CEILINGS OR IN ANY OTHER CONCEALED, NON-SPRINKLERED SPACE.

IMPOSING ANY STRUCTURAL LOAD, TEMPORARY OR PERMANENT, ON ANY PART OF THE WORK OR STRUCTURE WITHOUT APPROVAL.

ATTACHING ANY WORK TO METAL DECK OR HANGING FROM PLUMBING AND SPRINKLER PIPING OR CONDUIT.

15. POLLUTION CONTROLS

USE WATER SPRINKLING, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERED IN AIR TO LOWEST PRACTICAL LEVEL. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION. DO NOT USE WATER WHEN IT MAY CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS SUCH AS ICE, FLOODING AND POLLUTION.

CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY DEMOLITION OPERATIONS, AS DIRECTED BY ARCHITECT OR GOVERNING AUTHORITIES. RETURN ADJACENT AREAS TO CONDITION EXISTING PRIOR TO START OF WORK.

16. TURNOVER REQUIREMENTS

1. THE CONTRACTOR SHALL ARRANGE FOR ALL INSPECTIONS AND FURNISH OWNERS REPRESENTATIVE WITH THE CERTIFICATE OF OCCUPANCY. G.C. IS ALSO TO PROVIDE A TYPEWRITTEN LIST OF NAMES, ADDRESSES AND PHONE NUMBERS OF ALL SUB-CONTRACTORS AND MATERIAL SUPPLIERS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE ENTIRE STORE CLEAN AND SPOTLESS AT THE TIME OF FURNITURE INSTALLATION AND AT TURN OVER.

3. PRIOR TO THE STORE OPENING, CONTRACTOR IS TO ARRANGE FOR AN INDEPENDENT BALANCING CONTRACTOR TO BALANCE THE HVAC SYSTEM AND PROVIDE A COPY OF THE BALANCING REPORT TO OWNER'S REPRESENTATIVE.

4. CONTRACTOR TO TURN OVER ALL KEYS TO THE OWNER'S REPRESENTATIVE AND MARKING EACH KEY FOR IDENTIFICATION. THE CONTRACTOR SHALL SET ALL TIME CLOCKS, THERMOSTATS, ETC. PER OWNER'S REPRESENTATIVE'S REQUIREMENTS.

5. THE CONTRACTOR SHALL EXPLAIN THE OPERATION OF ALL MECHANICAL SYSTEMS TO THE OWNER'S REPRESENTATIVE AND PROVIDING COPIES OF OPERATION, MAINTENANCE AND WARRANTY MANUALS.

DIVISION 2 - SITE WORK

1. DEMOLITION

PROVIDE DEMOLITION AND REMOVAL OF STRUCTURES, PAVEMENT, SIDEWALKS, CURBS, ETC. AND THE CAPPING OF EXISTING UTILITIES. REMOVE ABOVE GRADE AND BELOW GRADE IMPROVEMENTS AND REMOVE GROWTH AND VEGETATION AT THE SITE.

COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, REGULATIONS AND STANDARDS. IN CASE OF CONFLICT THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

SCHEDULE AND EXECUTE ALL WORK IN A CAREFUL MANNER WITH ALL CONSIDERATION FOR NEIGHBORS AND THE PUBLIC TO PREVENT INJURY TO PERSONS OR PROPERTY.

PRIOR TO ALL DEMOLITION WORK CAREFULLY INSPECT THE ENTIRE SITE AND ALL OBJECTS TO BE DEMOLISHED AND/OR LEFT INTACT AND DETERMINE AN ORDERLY SEQUENCE FOR THE DEMOLITION. LOCATE ALL EXISTING UTILITY LINES AND DETERMINE THE REQUIREMENTS FOR DISCONNECTION AND CAPPING. LOCATE ALL ACTIVE UTILITY LINES TRAVERSING THE SITE AND DETERMINE THE REQUIREMENTS FOR PROTECTION.

PROTECTION: THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROTECTION OF EXISTING BUILDINGS, SURROUNDING PROPERTY AND ALL PERSONS. THE CONTRACTOR SHALL ALSO PROVIDE ALL SHORING, TEMPORARY BARRICADES AND TEMPORARY ENCLOSURES AS NECESSARY TO PROTECT ADJACENT PROPERTY FROM DAMAGE.

TAKE ALL MEANS NECESSARY TO PREVENT THE SPREAD OF DUST DURING DEMOLITION OPERATIONS. THOROUGHLY MOISTEN ALL GROUND SURFACES AS OFTEN AS REQUIRED TO PREVENT DUST BEING A NUISANCE TO THE PUBLIC, NEIGHBORS AND THE CONCURRENT PERFORMANCE OF OTHER WORK ON THE SITE.

PRESERVE IN OPERATING CONDITION ALL ACTIVE UTILITIES TRAVERSING THE SITE AND REQUIRED FOR FUTURE OPERATION OF THE NEW STORE AND SURROUNDING PROPERTIES.

COORDINATE DISCONNECTING, REMOVING, PLUGGING, ABANDONING AND RELOCATING UTILITIES WITH LOCAL UTILITY COMPANIES OR OTHER GOVERNING AGENCIES.

ASBESTOS ABATEMENT: REFER TO ASBESTOS CONTAINING MATERIAL (ACM) REPORT FOR COMPLETE DESCRIPTION OF MATERIALS IDENTIFIED. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL RULES AND REGULATIONS FOR THE PROPER PROTECTION, REMOVAL AND DISPOSAL OF ANY ASBESTOS CONTAINING MATERIAL.

POLLUTION CONTROL: THE CONTRACTOR IS RESPONSIBLE FOR ENSURING TRUCKS LEAVING AND ENTERING THE SITE DO NOT DROP DEMOLITION DEBRIS OR DIRT ONTO PUBLIC STREETS.

THE CONTRACTOR IS RESPONSIBLE FOR THE PREVENTION OF SOIL EROSION AND SILT FROM LEAVING THE SITE.

FILLING BASEMENTS & VOIDS: COMPLETELY FILL BELOW GRADE AREA AND VOIDS RESULTING FROM THE DEMOLITION OF THE STRUCTURE AND UTILITIES.

REFER TO THE GEO-TECHNICAL REPORT FOR FILL MATERIAL AND PLACEMENT METHODS. PLACE FILL, COMPACT AND GRADE THE SURFACE TO MEET ADJACENT GRADES AND AS SHOWN ON THE DRAWINGS.

DISPOSAL OF DEMOLISHED MATERIALS
A. REMOVE FROM SITE AND LEGALLY DISPOSE ALL RUBBISH, DEBRIS AND ALL MATERIALS RESULTING FROM THE DEMOLITION OPERATIONS.

2. EARTHWORK

LOCATE EXISTING UNDERGROUND UTILITIES BY CAREFUL HAND EXCAVATION BEFORE STARTING EARTHWORK OPERATIONS. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE PROTECTION FROM DAMAGE DURING CONSTRUCTION OPERATIONS. CONTACT LOCAL UTILITY COMPANY FOR INFORMATION REGARDING UNDERGROUND UTILITIES.

SHOULD UNCHARTED OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT THE OWNER IMMEDIATELY FOR DIRECTIONS AS TO PROCEDURES. REPAIR DAMAGED UTILITIES TO THE SATISFACTION OF THE UTILITY OWNER. COOPERATE WITH THE OWNER, AND PUBLIC AND PRIVATE UTILITY COMPANIES IN KEEPING SERVICES AND FACILITIES IN OPERATION.

BARRICADE OPEN EXCAVATION AND POST WITH WARNING LIGHTS FOR THE SAFETY OF PERSONS, OPERATING WARNING LIGHT DURING HOURS OF DUSK TO DAWN EACH DAY.

PROTECT STRUCTURE, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES IMMEDIATELY ADJACENT TO EXCAVATIONS, FROM DAMAGES CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS.

ALL FILL AND BACK FILL SHALL BE SELECTED FILL MATERIAL COMPACTED AS NOTED IN THE SOILS REPORT. GRADING PLAN AND EARTHWORK SPECIFICATIONS SHALL USE NON-EXPANSION FILL MATERIAL AT BUILDING AREA AND UNDER WALKS. ALL COMPACTION SHALL BE SUPERVISED AND CERTIFIED BY A LICENSED SOILS ENGINEER AND CERTIFICATION REPORT SHALL BE SUBMITTED TO PANDA EXPRESS PRIOR TO PLACING OF CONCRETE.

3. ASPHALT AND CONCRETE PAVING

(REFER TO CIVIL DRAWINGS FOR SPECIFICATIONS)
SEE GRADING AND PAVING PORTION OF SITE PREPARATION PROCEDURES ON THE SITE AND/OR GRADING PLAN.

MATERIALS:
1) BASE COURSE: AS NOTED ON CIVIL DRAWINGS
2) PRIME COAT: MC-250 OR MC-70 PER ASPHALT INSTITUTE (ASTM D2027-76)
3) SURFACE COAT: AS NOTED ON CIVIL DRAWINGS
4) PAVEMENT MARKINGS, PARKING STALL STRIPES SHALL BE: AS NOTED ON CIVIL DRAWINGS
5) SEAL COAT: FOG-SEAL BY KOPPERS COMPANY.

PROVIDE ALL ASPHALT AND CONCRETE WORK COMPLETE, AS SHOWN ON THE DRAWINGS HEREIN SPECIFIED, INCLUDING CONCRETE FORM WORK, REINFORCEMENT DOWELS AND ACCESSORIES, CONCRETE MIXED, PLACE, FINISHED AND CURED.

EXTERIOR WALKS AND RAMPS TO BE LIGHT BROOM TEXTURE FINISH, UNLESS NOTED OTHERWISE.

EXTERIOR FLATWORK AND CURBS - PROVIDE EXPANSION CONTRACTION JOINT AT 20'-0" ON CENTER MAXIMUM AND CONTROL JOINT AT 5'-0" ON CENTER MAXIMUM.

4. TERMITE CONTROL

QUALITY ASSURANCE: CONFORM TO STATE, LOCAL, AND ALL OTHER REGULATIONS FOR THE USE AND APPLICATION OF TOXICANT CHEMICALS. APPLICATOR SHALL BE A COMPANY SPECIALIZING IN SOIL TREATMENT FOR TERMITE CONTROL WITH FIVE YEARS EXPERIENCE AND LICENSED FOR PROJECT LOCATION. SUBMIT COMPLETE PRODUCT DATA AND MANUFACTURER'S INSTRUCTIONS. INDICATE CAUTION REQUIREMENTS.

WARRANTY: FURNISH FIVE YEAR WARRANTY AGAINST INVASION OR PROPAGATION OF SUBTERRANEAN TERMITES, DAMAGE TO BUILDING OR CONTENTS CAUSED BY TERMITES. INCLUDE COST FOR REPAIRS TO BUILDINGS OR CONTENTS SO CAUSED. CERTIFICATION OF TREATMENT SHALL BE PROVIDED IN CLOSEOUT DOCUMENTS AT G.C. EXPENSE.

PRODUCTS: PROVIDE WATER EMULSION MATERIALS MANUFACTURED BY ONE OF THE FOLLOWING: BASE TERMIDOR; DOW AGRO SCIENCES EQUITY 1.0 PERCENT; OR OTHER PRODUCT SUBSTITUTIONS IF APPROVED IN WRITING BY PANDA.

EXECUTION: VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. APPLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, STATE AND FEDERAL LAWS AND OSHA REGULATIONS. COORDINATE INSTALLATION WITH ROUGH GRADING TO AVOID DISTURBANCES TO TREATED SOIL. RETREAT ANY DISTURBED SOIL. DO NOT PERMIT SOIL GRADING OVER COMPLETED WORK.

TREATMENT SCHEDULE: TREAT SOIL AT THE FOLLOWING LOCATIONS:
UNDER FOOTINGS; UNDER SLABS ON GRADE; BOTH SIDES OF FOUNDATION WALLS; AND SOIL WITHIN 10 FEET OF BUILDING PERIMETER FOR A DEPTH AS RECOMMENDED BY THE MANUFACTURER FOR THE REGION WHERE PROJECT IS LOCATED.

DIVISION 3 - CONCRETE

REFER TO STRUCTURAL DRAWINGS FOR CONCRETE SPECIFICATIONS

DIVISION 4 - MASONRY

1. GENERAL NOTES

ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF ALL LOCAL CODES AND STANDARDS.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE AND REPORT ANY ERRORS, OMISSIONS, OR POSSIBLE DISCREPANCIES TO THE ARCHITECT AND PANDA EXPRESS PRIOR TO COMMENCING ANY WORK. SPECIAL CARE SHALL BE GIVEN TO THE SITE AND BUILDING LAYOUT THEREON.

THE CONTRACTOR SHALL PROVIDE SAFE AND ADEQUATE BRACES AND CONNECTIONS TO SUPPORT THE COMPONENT PARTS OF THE STRUCTURE UNTIL THE STRUCTURE ITSELF (INCLUDING THE FLOOR AND ROOF DIAPHRAGMS) IS COMPLETE ENOUGH TO ADEQUATELY SUPPORT ITSELF.

OPTIONS, IF PROVIDED HEREIN, ARE NOTED FOR CONTRACTOR'S CONVENIENCE. HE SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY, SHALL COORDINATE ALL DETAILS, AND SHALL OBTAIN ALL REQUIRED APPROVALS.

COSTS OF ADDITIONAL DESIGN WORK NECESSITATED BY SELECTION OF AN OPTION OR DUE TO ERRORS OR OMISSIONS IN CONSTRUCTION, SHALL BE BORNE BY THE CONTRACTOR.

2. MANUFACTURED MASONRY VENEER

INCL

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

1. ENERGY COMPLIANCE

FIXED WINDOWS (GLASS) SHALL BE SEALED TO LIMIT AIR INFILTRATION.

HOLLOW METAL OR SOLID CORE WOOD DOORS: PROVIDE VINYL OR SHEET METAL WEATHER SEAL AT HEAD, JAMB AND SILL AT ALL EXTERIOR DOORS.

EXTERIOR STORE FONT HINGED DOORS: PROVIDE VINYL SEAL AT SILL AND CONTINUOUS PILE WEATHER-STRIP VERTICALLY AND AT TOP RAILS.

OPEN EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AT PENETRATION OF UTILITIES THROUGH THE ENVELOPE, SHALL BE SEALED CAULKED OR WEATHER-STRIPPED TO LIMIT AIR LEAKAGE.

2. BUILDING INSULATION

WORK INCLUDED: FURNISH AND INSTALL RIGID, THERMAL BATT, AND SOUND BATT INSULATION.

ROOF INSULATION: RIGID POLY-ISO INSULATION: R30 MINIMUM

BATT INSULATION: R-20 AS SHOWN ON PLANS, KRAFT FACED WITH STAPLING FLANGE FOR WOOD STUD WALL CONSTRUCTION, FOIL REINFORCED KRAFT FACING (FRK) WITH STAPLING FLANGE FOR WOOD STUD APPLICATION IN ATTIC AREAS (FS-25 WITH FLAME SPREAD OF 25). AS MANUFACTURED BY OWENS/CORNING FIBERGLASS, OR EQUAL.

SOUND BATT INSULATION: NON-COMBUSTIBLE MINERAL FIBERGLASS BATTS WITH MINIMUM 3 1/2" THICKNESS.

VAPOR BARRIER: TRANSLUCENT POLYETHYLENE FILM FOR USE IN ABOVE GRADE BUILDING CONSTRUCTION, 6 MIL MINIMUM THICKNESS. (INTERIOR ONLY)

3. MEMBRANE ROOFING

MATERIALS: PROVIDE DURO-LAST ROOFING AND BASE FLASHING AS MANUFACTURED BY DURO-LAST ROOFING SYSTEMS. PRODUCT AND INSTALLATION SHALL CONFORM TO MANUFACTURERS SPECIFICATION AND 2018 IBC CHAPTER 15 & TABLE 1507.10.2. REFER TO ROOF PLAN FOR ADDITIONAL INFORMATION.

INSTALLATION: ROOFING SHALL BE INSTALLED BY MANUFACTURER CERTIFIED INSTALLER. ROOFING SHALL BE INSTALLED OVER WOOD DECK OR INSULATED DECK, WHERE APPLICABLE, IN STRICT ACCORDANCE WITH THE MANUFACTURER'S LATEST RECOMMENDATIONS. PRIME ALL METAL FLASHING, ETC. THAT SHALL BE IN CONTACT WITH ROOFING MATERIALS.

WARRANTY: GENERAL CONTRACTOR SHALL FURNISH A FIFTEEN (15) YEAR, NO DOLLAR LIMIT (NDL), WARRANTY FOR THIS INSTALLATION.

4. FLASHING AND SHEET METAL

FURNISH AND INSTALL ALL FLASHING, SHEET METAL, PITCH POCKET PANS AND SCUPPERS NOT SPECIFICALLY DESCRIBED IN OTHER SECTIONS OF THESE SPECIFICATIONS, BUT REQUIRED TO PREVENT WATER PENETRATION THROUGH EXTERIOR BUILDING SHELL, INCLUDING FLASHING, CAPS, AND ROOF EQUIPMENT PLATFORM COVERS.

COMPLY WITH APPLICABLE RECOMMENDATIONS AND DETAILS OF THE "ARCHITECTURAL SHEET METAL MANUAL", BY SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA).

INSTALL SHEET METAL OVER A LAYER OF ROOFING FELT.

GALVANIZED IRON: SHEET METAL OR IRON SHALL BE A STANDARD BRAND OF OPEN-HEARTH, COPPER-BEARING STEEL, COPPER-MOLYBDENUM IRON, OR PURE IRON SHEETS. USE 24 GAUGE MINIMUM UNLESS OTHERWISE CALLED FOR ON THE DRAWINGS.

ZINC COATING: ALL GALVANIZED SHEETS SHALL HAVE A ZINC COATING APPLIED BY HOT-DIP PROCESS TO ALL SURFACES. ZINC COATING SHALL WEIGH NOT LESS THAN 1 1/4 OUNCES PER SQ. FT. NOR MORE THAN 1 1/2 OUNCES PER SQ. FT. OF SURFACES COVERED AND SHALL CONFORM WITH ASTM A-93.

5. ROOF ACCESSORIES

THE WORK OF THIS SECTION INCLUDES THE PROVIDING AND INSTALLING OF ACCESSORIES TO BE INSTALLED ON THE ROOF AND FLASHED TO PROVIDE A WATERTIGHT INSTALLATION.

ROOF HATCH: BILCO, TYPE "S-20", 2'-6" X 3'-0", GALVANIZED, BONDED FOR PAINTING.

6. CAULKING & SEALANTS

GENERAL BUILDING APPLICATIONS: FOR JOINTS WHERE MOVEMENT IS ANTICIPATED. USE A.C. HORN HORNFLEX (POLYSULFIDE) ONE COMPONENT SYSTEM IN THE COLOR WHICH MOST CLOSELY MATCHES THE ADJACENT SURFACES. SEALANT TO HAVE A SHORE "A" HARDNESS OF 20 TO 30.

FOR DRY JOINTS BETWEEN DISSIMILAR MATERIALS WHERE LITTLE MOVEMENT IS ANTICIPATED. USE A.C. HORN HORNSEAL ELASTOMERIC CAULK (BUTYL RUBBER) ONE COMPONENT SYSTEM IN THE COLOR WHICH MOST CLOSELY MATCHES ADJACENT SURFACES.

FOR GLAZING AND KITCHEN APPLICATIONS:
GENERAL ELECTRIC SILICONE CONSTRUCTION 1200 SEALANT.

FOR SHEET METAL FLASHING AND COPING:
GENERAL ELECTRIC SILPRUF SILICONE WEATHER PROOFING SEALANT.

THE GENERAL CONTRACTOR SHALL INCLUDE IN HIS WORK THE FOLLOWING: AFTER ALL EQUIPMENT AND WALL MATERIALS ARE INSTALLED, ALL JOINTS TO WALLS AND BASES SHALL BE SEALED WITH SILICONE SEALANT.

ALL INSIDE VERTICAL CERAMIC TILE CORNERS SHALL RECEIVE A TOOLED BEAD OF SILICONE SEALANT.

7. EIFS (EXTERIOR INSULATION AND FINISH SYSTEM)

WORK INCLUDED:
ALL MATERIALS AND INSTALLATION OF AN EIFS SYSTEM.

DESIGN REQUIREMENTS: CONFORM IN ALL RESPECTS TO MANUFACTURER'S SPECIFICATIONS FOR MATERIALS AND INSTALLATION PER STO THERM SPECIFICATION FOR STO THERM E100 ESSENCE SYSTEM

DRYVIT MAY BE SUBSTITUTED AS AN ALTERNATE EIFS MANUFACTURER IF APPROVED IN WRITING BY PANDA EXPRESS

MEET ALL LOCAL BUILDING CODE REQUIREMENTS.

MOISTURE CONTROL: PREVENT THE ACCUMULATION OF WATER BEHIND THE EIFS SYSTEM, EITHER BY CONDENSATION OR LEAKAGE THROUGH THE WALL CONSTRUCTION, IN THE DESIGN AND DETAILING OF THE WALL ASSEMBLY. CONFORM WITH ALL DETAILS OF MANUFACTURER'S SPECIFICATIONS.

IMPACT RESISTANCE: PROVIDE ULTRA-HIGH IMPACT RESISTANCE TO A MINIMUM HEIGHT OF 6'-0" ABOVE FINISHED GRADE AT ALL AREAS ACCESSIBLE TO PEDESTRIAN TRAFFIC AND OTHER AREAS EXPOSED TO ABNORMAL STRESS OR IMPACT. INDICATE THE AREAS WITH IMPACT RESISTANCE OTHER THAN "STANDARD" ON CONTRACT DRAWINGS.

COLOR SELECTION: AS SELECTED BY PANDA FROM MANUFACTURER'S STANDARD COLORS.

7. JOINTS: PER MANUFACTURER'S SPECIFICATION

8. GRADE CONDITION: DO NOT INSTALL EIFS BELOW GRADE.

9. PROJECTING ARCHITECTURAL FEATURES AND REVEALS: ALL TRIM AND PROJECTING ARCHITECTURAL FEATURES MUST HAVE A MINIMUM 1:2 SLOPE ALONG THEIR TOP SURFACE ALL HORIZONTAL REVEALS MUST HAVE A MINIMUM 1:2 SLOPE ALONG THEIR BOTTOM SURFACE INCREASE SLOPE FOR NORTHERN CLIMATES TO PREVENT ACCUMULATION OF ICE/SNOW AND WATER ON SURFACE WHERE TRIM FEATURE OR BOTTOM SURFACE OF REVEAL PROJECTS MORE THAN 2 INCHES FROM THE FACE OF THE EIFS WALL PLANE, PROTECT THE TOP SURFACE WITH WATERPROOF BASE COAT. PERIODIC INSPECTIONS AND INCREASED MAINTENANCE MAY BE REQUIRED TO MAINTAIN SURFACE INTEGRITY OF EIFS ON WEATHER EXPOSED SLOPED SURFACES.

10. INSULATION THICKNESS: MINIMUM EPS INSULATION THICKNESS IS 1 1/2 INCHES.

11. FIRE PROTECTION: REFER TO MANUFACTURER'S APPLICABLE CODE COMPLIANCE REPORT FOR LIMITATIONS THAT MAY APPLY.

C. QUALITY ASSURANCE:
1. MANUFACTURER REQUIREMENTS: MEMBER IN GOOD STANDING OF THE EIFS INDUSTRY MEMBERS ASSOCIATION, AND (EIMA). SYSTEM MANUFACTURER FOR A MINIMUM OF TWENTY (25) YEARS, AND MANUFACTURING FACILITIES ISO 9001-2000 CERTIFIED QUALITY SYSTEM.

2. CONTRACTOR REQUIREMENTS: ENGAGED IN APPLICATION OF EIFS FOR A MINIMUM OF THREE (3) YEARS; AND EMPLOY SKILLED MECHANICS WHO ARE EXPERIENCED AND KNOWLEDGEABLE IN EIFS APPLICATION; AND DEMONSTRATE SUCCESSFUL COMPLETION OF MINIMUM OF THREE (3) PROJECTS OF SIMILAR SIZE AND COMPLEXITY TO THE SPECIFIED PROJECT.

3. INSULATION BOARD MANUFACTURER REQUIREMENTS: RECOGNIZED BY STO AS CAPABLE OF PRODUCING INSULATION BOARD; AND LISTED BY AN APPROVED AGENCY. LABEL INSULATION BOARD WITH INFORMATION REQUIRED BY STO, THE APPROVED LISTING AGENCY AND THE APPLICABLE BUILDING CODE.

4. INSPECTIONS: PROVIDE INDEPENDENT THIRD PARTY INSPECTION WHERE REQUIRED BY CODE OR CONTRACT DOCUMENTS. CONDUCT INSPECTIONS IN ACCORDANCE WITH CODE REQUIREMENTS AND CONTRACT DOCUMENTS.

D. DELIVERY STORAGE AND HANDLING: AS SPECIFIED BY MANUFACTURER.

E. COORDINATION: THE WORK IN THIS SECTION REQUIRES CLOSE COORDINATION WITH RELATED SECTIONS AND TRADES.
1. PROVIDE SITE GRADING SUCH THAT EIFS TERMINATES ABOVE FINISHED GRADE A MINIMUM OF 6 INCHES (152MM) OR AS REQUIRED BY CODE.

2. PROVIDE PROTECTION OF ROUGH OPENINGS BEFORE INSTALLING WINDOWS, DOORS AND OTHER PENETRATIONS THROUGH THE WALL AND PROVIDE SILL FLASHING.

3. INSTALL WINDOW AND DOOR HEAD FLASHING IMMEDIATELY AFTER WINDOWS AND DOORS ARE INSTALLED.

4. INSTALL DIVERTER FLASHING WHEREVER WATER CAN ENTER THE WALL ASSEMBLY TO DIRECT WATER TO THE EXTERIOR.

5. INSTALL COPINGS AND SEALANT IMMEDIATELY AFTER INSTALLATION OF THE EIFS SYSTEM AND WHEN EIFS COATINGS ARE DRY.

6. ATTACH PENETRATIONS THROUGH EIFS TO STRUCTURAL SUPPORT AND PROVIDE WATER TIGHT SEAL AT PENETRATIONS.

F. PRODUCTS: PROVIDE EIFS SYSTEM AND ACCESSORIES FROM SINGLE SOURCE
1. MANUFACTURER OR APPROVED SUPPLIER. THE FOLLOWING ARE ACCEPTABLE MANUFACTURERS" STO CORP. EIFS; OTHER MANUFACTURER IF APPROVED IN WRITING BY PANDA.

2. INSULATION BOARD: NOMINAL 1.0 LB/FT3 (16 KG/M3) EXPANDED POLYSTYRENE (EPS) INSULATION BOARD IN COMPLIANCE WITH ASTM E2430 AND ASTM C578 TYPE 1 REQUIREMENTS.

3. BASE COAT AS SPECIFIED BY MANUFACTURER.

4. REINFORCING MESHES AS SPECIFIED BY MANUFACTURER.

5. FINISH COAT: STO ESSENCE DPR FINISH, ACRYLIC BASED TEXTURED WALL COATING WITH GRADED MARBLE AGGREGATE AND DIRT PICK-UP RESISTANCE TECHNOLOGY.

G. EXECUTION:
1. INSTALLATION: INSTALL EIFS IN COMPLIANCE WITH MANUFACTURER'S PUBLISHED INSTRUCTIONS.
2. PROTECTION: PROVIDE PROTECTION OF INSTALLED MATERIALS FROM WATER INFILTRATION INTO OR BEHIND THEM. PROVIDE PROTECTION OF INSTALLED MATERIALS FROM DUST, DIRT, PRECIPITATION, FREEZING AND CONTINUOUS HIGH HUMIDITY UNTIL THEY ARE FULLY DRY.

8. VAPOR BARRIER

ALL EXTERIOR SHEATHING SHOWN IN DRAWINGS CALLED OUT TO RECEIVE "WRB" (WATER RESISTIVE BARRIER) OR VAPOR BARRIER SHALL RECEIVE THE FOLLOWING:

MANUFACTURER: STO CORPORATION (www.stocorp.com)

SPECIFICATION: STO GUARD WTH GOLD COAT A1000G

SUBSTITUTIONS: NOT ALLOWED

INSTALLATION: INSTALL PER MANUFACTURER'S INSTRUCTIONS/SPECIFICATIONS

9. WATER PROOFING MEMBRANE BEHIND COMPOSITE DECKING

ALL EXTERIOR SHEATHING SHOWN IN DRAWINGS CALLED OUT TO RECEIVE "WATER PROOFING" LOCATED SPECIFICALLY BEHIND ALL COMPOSITE WOOD DECKING SIDING SHALL RECEIVE THE FOLLOWING:

MANUFACTURER: BASF (www.master-builders-solutions.basf.us/en-us/products/masterseal/1991)

SPECIFICATION: MASTERSEAL HLM 5000

SUBSTITUTIONS: NOT ALLOWED

INSTALLATION: INSTALL PER MANUFACTURER'S INSTRUCTIONS/SPECIFICATIONS - REF. TO CUT SHEET BELOW

BASF
We create chemistry

Technical Data Guide

07 14 00
Fluid-Applied Waterproofing

MasterSeal® HLM 5000

Liquid, cold-applied elastomeric waterproofing membrane system

FORMERLY SONOSHIELD® HLM 5000

YIELD
25–30 ft²/gal at 55–65 wet mils (0.61–0.74 m²/L at 1.4–1.7 mm wet thickness)

25–30 ft²/gal at 45–55 dry mils (0.61–0.74 m²/L at 1.1–1.4 mm dry thickness)

Coverage may vary with the application technique used. Actual coverage rate and mil thickness depend on finish and porosity of the substrate.

STORAGE
Store in unopened containers in clean, dry conditions at 40 to 80°F (4 to 27°C). During storage, an easily removed skin of HLM 5000 may form, which does not affect performance of the product.

SHELF LIFE
- 1 Year Pails
- 6 Months Drums

VOC CONTENT
- MasterSeal HLM 5000 SL: 183 g/L
- MasterSeal HLM 5000 S: 190 g/L
- MasterSeal HLM 5000 R: 180 g/L
- MasterSeal HLM 5000 T: 132 g/L

DESCRIPTION
MasterSeal HLM 5000 is a one-component, moisture-curing, bitumen-modified polyurethane elastomeric waterproofing membrane for exterior below-grade or between-slab applications. It is available in four grades:
MasterSeal HLM 5000 SL (self-leveling/squeegee)
MasterSeal HLM 5000 T (trowel)
MasterSeal HLM 5000 S (spray)
MasterSeal HLM 5000 R (roller)

PRODUCT HIGHLIGHTS
- Available in standard and high-build systems
- Waterproofing membrane to prevent water penetration
- Elastomeric accommodates expansion and contraction
- Wide service-temperature range, making MasterSeal HLM 5000 suitable for all climates
- Chemical resistance to bacterial attack, select acids, alkalis and salts
- Seamless cold-applied membrane eliminates lapping, seaming and precutting
- Does not require hot-melt equipment

PACKAGING
- MasterSeal HLM 5000 SL, HLM 5000 S, and HLM 5000 R: 5 gal (18.95 L) pails, 55 gal (208 L) drums; available special order
- MasterSeal HLM 5000 T: 5 gal (18.95 L) pails
- MasterSeal 965: 300 ft lin by 37½" (91 by 0.9 m) rolls, yielding 697 ft² (87 m²)
- MasterSeal 977:
  - 50 mil by 40" by 48" (1.3 mm by 1 m by 1.2 m) sheets, 500 per pallet, yielding 1361 ft² (1.2 m²) per sheet or 6,665 ft² (619 m²) per pallet.
  - 120 mil (⅛") by 40" by 48" (3 mm by 1 m by 1.2 m) sheets, 500 per pallet, yielding 1361 ft² (1.2 m²) per sheet or 6,665 ft² (619 m²) per pallet.

APPLICATIONS
- Concrete
- Plywood (exterior)
- Exterior below grade (on masonry, concrete, and incidental metal)
- Above grade (between two-course concrete and within cavity walls)
- Parking garages and concrete tanks
- Plaza decks and malls
- Fountains and pools
- Balconies and planters
- Below-grade slabs
- Walls and culverts
- Sea walls, dams and reservoirs

HOW TO APPLY MASTERSEAL HLM 5000 SURFACE PREPARATION
For best results, all concrete deck surfaces should be lightly steel troweled to a flat, uniform surface. A light broom finish is acceptable. New concrete must be properly water cured at least 14 days. Membrane curing compounds must be mechanically removed.

Master Builders Solutions by BASF
www.master-builders-solutions.basf.us

MASTER® BUILDERS SOLUTIONS

DIVISION 7 - CONTINUOUS INSULATION

11. CONTINUOUS INSULATION FOR WALLS

INCLUDES CONTINUOUS INSULATION FOR WALLS: ECOBASECI.
REFERENCES:

A. AAMA 2605 - ANSI/SBCA FS 100-2012 STANDARD REQUIREMENTS FOR WIND PRESSURE RESISTANCE OF FOAM PLASTIC INSULATING SHEATHING USED IN EXTERIOR WALL COVERING ASSEMBLIES.

B. ASTM INTERNATIONAL (ASTM):
1. ASTM C209 - STANDARD TEST METHODS FOR CELLULOSIC FIBER INSULATING BOARD.
2. ASTM D1621 - STANDARD TEST METHOD FOR COMPRESSIVE PROPERTIES OF RIGID CELLULAR PLASTICS.
3. ASTM D1622 - STANDARD TEST METHOD FOR APPARENT DENSITY OF RIGID CELLULAR PLASTICS.
4. ASTM D2126 - STANDARD TEST METHOD FOR RESPONSE OF RIGID CELLULAR PLASTICS TO THERMAL AND HUMID AGING.
5. ASTM E 72 - STANDARD TEST METHODS OF CONDUCTING STRENGTH TESTS OF PANELS FOR BUILDING CONSTRUCTION.
6. ASTM E 84 - STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS.
7. ASTM E 96 - STANDARD TEST METHODS FOR WATER VAPOR TRANSMISSION OF MATERIALS.
8. ASTM E 331 - STANDARD TEST METHOD FOR WATER PENETRATION OF EXTERIOR WINDOWS, SKYLIGHTS, DOORS, AND CURTAIN WALLS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE.
9. ASTM E 564 - STANDARD PRACTICE FOR STATIC LOAD TEST FOR SHEAR RESISTANCE OF FRAMED WALLS FOR BUILDINGS.
10. ASTM E 2126 - STANDARD TEST METHODS FOR CYCLIC (REVERSED) LOAD TEST FOR SHEAR RESISTANCE OF VERTICAL ELEMENTS OF THE LATERAL FORCE RESISTING SYSTEMS FOR BUILDINGS.
11. ASTM E 2178 - STANDARD TEST METHOD FOR AIR PERMEANCE OF BUILDING MATERIALS.
12. ASTM E 2357 - STANDARD TEST METHOD FOR DETERMINING AIR LEAKAGE OF AIR BARRIER ASSEMBLIES.

C. NFPA 285 - STANDARD FIRE TEST METHOD FOR EVALUATION OF FIRE PROPAGATION CHARACTERISTICS OF EXTERIOR NON-LOAD-BEARING WALL ASSEMBLIES CONTAINING COMBUSTIBLE COMPONENTS.

SUBMITTALS: SUBMIT TO PANDA THE FOLLOWING:

A. PRODUCT DATA: MANUFACTURER'S DATA SHEETS ON EACH PRODUCT TO BE USED, INCLUDING:
1. PREPARATION INSTRUCTIONS AND RECOMMENDATIONS.
2. STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS.
3. INSTALLATION METHODS.

B. SHOP DRAWINGS: SHOW FABRICATION AND INSTALLATION LAYOUTS OF METAL WALL PANELS; DETAILS OF EDGE CONDITIONS, JOINTS, PANEL PROFILES, CORNERS, ANCHORAGES, ATTACHMENT SYSTEM, TRIM, FLASHINGS, CLOSURES, AND ACCESSORIES; AND SPECIAL DETAILS.
1. ACCESSORIES: INCLUDE DETAILS OF ALL INTEGRAL PANEL COMPONENTS AND THEIR INTERFACE WITH ADJACENT MATERIALS.
2. FOR INSTALLED PRODUCTS INDICATED TO COMPLY WITH DESIGN LOADS, INCLUDE STRUCTURAL ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

C. VERIFICATION SAMPLES: FOR EACH FINISH PRODUCT SPECIFIED, TWO SAMPLES, MINIMUM SIZE 4 INCHES BY 6 INCHES (102MM X 150 MM).

QUALITY ASSURANCE:

A. MANUFACTURER QUALIFICATIONS: ALL PRIMARY PRODUCTS SPECIFIED IN THIS SECTION WILL BE SUPPLIED BY A SINGLE MANUFACTURER WITH A MINIMUM OF TEN YEARS EXPERIENCE.

B. INSTALLER QUALIFICATIONS: ALL PRODUCTS LISTED IN THIS SECTION ARE TO BE INSTALLED BY A SINGLE INSTALLER WITH A MINIMUM OF FIVE (5) YEARS DEMONSTRATED EXPERIENCE IN INSTALLING PRODUCTS OF THE SAME TYPE AND SCOPE AS SPECIFIED.

DELIVERY, STORAGE, AND HANDLING:

A. STORE AND HANDLE PRODUCTS PER MANUFACTURER'S INSTRUCTIONS UNTIL READY FOR INSTALLATION.

SEQUENCING:

A. ENSURE THAT LOCATING TEMPLATES AND OTHER INFORMATION REQUIRED FOR INSTALLATION OF PRODUCTS OF THIS SECTION ARE FURNISHED TO AFFECTED TRADES IN TIME TO PREVENT INTERRUPTION OF CONSTRUCTION PROGRESS.

B. ENSURE THAT PRODUCTS OF THIS SECTION ARE SUPPLIED TO AFFECTED TRADES IN TIME TO PREVENT INTERRUPTION OF CONSTRUCTION PROGRESS.

PROJECT CONDITIONS:

A. MAINTAIN ENVIRONMENTAL CONDITIONS (TEMPERATURE, HUMIDITY, AND VENTILATION) WITHIN LIMITS RECOMMENDED BY MANUFACTURER FOR OPTIMUM RESULTS. DO NOT INSTALL PRODUCTS UNDER ENVIRONMENTAL CONDITIONS OUTSIDE MANUFACTURER'S RECOMMENDED LIMITS.

WARRANTY:

A. INSULATION WARRANTY: AT PROJECT CLOSEOUT, PROVIDE TO OWNER AN EXECUTED COPY OF THE MANUFACTURER'S STANDARD LIMITED WARRANTY AGAINST MANUFACTURING DEFECT, OUTLINING ITS TERMS, CONDITIONS, AND EXCLUSIONS FROM COVERAGE.

PRODUCTS:

MANUFACTURERS.

A. ACCEPTABLE MANUFACTURER: RMAX OPERATING, LLC, WHICH IS LOCATED AT: 13524 WELCH RD., DALLAS, TX 75244-5227; TOLL FREE TEL: 800-527-0890; TEL: 972-387-4500; FAX: 972-387-4673; EMAIL:MATHEW STEVENS (MSTEVENS@RMAX.COM); WEB:WWW.RMAX.COM
1. RMAX OPERATING, LLC; 13524 WELCH RD., DALLAS, TX 75244. TOLL FREE TEL: 800-527-0890. TEL: 972-387-4500. FAX: 972-387-4673. EMAIL: SPECS@RMAX.COM. WEB:WWW.RMAX.COM.
2. RMAX OPERATING, LLC; 210 LYON DR., FERNLEY, NV 89408. TOLL FREE TEL: 800-762-9462. TEL: 775-575-4849. FAX: 775-575-5035. EMAIL: SPECS@RMAX.COM. WEB:WWW.RMAX.COM.
3. RMAX OPERATING, LLC; 1649 S. BATESVILLE RD., GREER, SC 29650. TOLL FREE TEL: 800-845-4455. TEL: 864-297-1382. FAX: 864-234-7548. EMAIL: SPECS@RMAX.COM. WEB:WWW.RMAX.COM.

A. SUBSTITUTIONS: NOT PERMITTED.

CONTINUOUS INSULATION FOR WALLS

A. **ECOBASECI**: CLOSED-CELL POLYISOCYANURATE (POLYISO) FOAM INSULATION WITH INORGANIC, POLYMER COATED GLASS FIBER MAT FACERS BONDED TO FIRE RETARDANT TREATED PLYWOOD (FRTP)
1. COMPLIANCE:
   a. ASTM C1289 TYPE V.
   b. ASHRAE 90.1.
   c. DRJ TER 1504-04
   d. INTERNATIONAL ENERGY CONSERVATION CODE (IECC).
   e. IBC SECTION 2603.
   f. NFPA 285 SECTION 2603.5.5 OF THE IBC.
   g. CALIFORNIA CODE OF REGULATIONS, TITLE 24
   h. 1, 2, 3 OR 4 HOUR FIRE RATED ASSEMBLIES AS SHOWN IN THE UL FIRE RESISTANCE DIRECTORY DESIGN NO.: U026, U326, U330, U354, U424, U460,U902, U904, U905, U906, U907, V454, V499
2. DENSITY (NOMINAL) IN ACCORDANCE WITH ASTM D1622: 2.0 PCF.
3. COMPRESSIVE STRENGTH IN ACCORDANCE WITH ASTM D1621: 20 PSI.
4. FLAME SPREAD, CORE IN ACCORDANCE WITH ASTM E84: 75 OR LESS.
5. SMOKE DEVELOPED, CORE IN ACCORDANCE WITH ASTM E84: 450 OR LESS.
6. WATER VAPOR TRANSMISSION IN ACCORDANCE WITH ASTM E96: LESS THAN 1.5 PERMS.
7. WATER ABSORPTION IN ACCORDANCE WITH ASTM C209: LESS THAN 1 PERCENT BY VOLUME.
8. DIMENSIONAL STABILITY IN ACCORDANCE WITH ASTM D2126: LESS THAN 2 PERCENT LINEAR CHANGE.
9. SERVICE TEMPERATURE: -40 DEGREE F TO +250 DEGREE F (-38 DEGREE C TO 121 DEGREE C).
10. PLYWOOD THICKNESS: 5/8 INCH (15.875 MM).
11. INSULATION THICKNESS: 1.5 INCHES (38.1 MM).
   a. OVERALL THICKNESS: 2-1/8 INCHES (53.975 MM).
   b. THERMAL RESISTANCE (R): 9.7.

EXECUTION:

EXAMINATION

A. DO NOT BEGIN INSTALLATION UNTIL SUBSTRATES HAVE BEEN PROPERLY PREPARED.

B. IF SUBSTRATE PREPARATION IS THE RESPONSIBILITY OF ANOTHER INSTALLER, NOTIFY ARCHITECT OF UNSATISFACTORY PREPARATION BEFORE PROCEEDING.

PREPARATION

A. CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION.

B. PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.

INSTALLATION, GENERAL

A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND IN PROPER RELATIONSHIP WITH ADJACENT CONSTRUCTION.

PROTECTION

A. PROTECT INSTALLED PRODUCTS UNTIL COMPLETION OF PROJECT.

B. TOUCH-UP, REPAIR OR REPLACE DAMAGED PRODUCTS BEFORE SUBSTANTIAL COMPLETION.

ISSUE FOR BID 01-30-2023

PANDA EXPRESS CHINESE KITCHEN

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

ISSUE DATE:

	ISSUE FOR PERMIT	10-20-22
	ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

idGROUP

CARRY D. MCLAIN
REGISTERED ARCHITECT
AGRICULTURE
NO. 106109
STATE OF TENNESSEE

10-20-22

PANDA EXPRESS

PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

G-003

SPECIFICATIONS

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-2023

DIVISION 8 - DOORS AND WINDOWS

1. QUALITY ASSURANCE

EXTERIOR WINDOW AND DOORS: WINDOWS AND DOORS INSTALLED IN EXTERIOR WALLS SHALL CONFORM TO THE TESTING AND PERFORMANCE REQUIREMENTS OF SECTION 1714.5*. INSTALLATION.

WINDOW AND DOORS SHALL BE INSTALLED IN ACCORDANCE WITH APPROVED MANUFACTURER'S INSTRUCTIONS. FASTENER SIZE AND SPACING SHALL BE PROVIDED IN SUCH INSTRUCTIONS AND SHALL BE CALCULATED BASED ON MAXIMUM LOADS AND SPACING USED IN THE TESTS*. EXTERIOR WINDOW AND DOOR ASSEMBLIES. THE DESIGN PRESSURE RATING OF EXTERIOR WINDOWS AND DOORS IN BUILDINGS SHALL BE DETERMINED IN ACCORDANCE WITH SECTION 1714.5.1 OR 1714.5.2. EXCEPTION: STRUCTURAL WIND LOAD DESIGN PRESSURES FOR WINDOW UNITS SMALLER THAN THE SIZE TESTED IN ACCORDANCE WITH SECTION 1714.5.1 OR 1714.5.2 SHALL BE PERMITTED TO BE HIGHER THAN THE DESIGN VALUE OF THE TESTED UNIT PROVIDED SUCH HIGHER PRESSURES ARE DETERMINED BY ACCEPTED ENGINEERING ANALYSIS. ALL COMPONENTS OF THE SMALL UNIT SHALL BE THE SAME AS THE TESTED UNIT. WHERE SUCH CALCULATED DESIGN PRESSURES ARE USED, THEY SHALL BE VALIDATED BY AN ADDITIONAL TEST OF THE WINDOW UNIT HAVING THE HIGHEST ALLOWABLE DESIGN PRESSURE.*

EXTERIOR WINDOWS AND GLASS DOORS SHALL BE LABELED AS CONFORMING TO AAMA/NWWDA 101/I.S.2. OR 101/I.S.2/NAFS. THE LABEL SHALL STATE THE NAME OF THE MANUFACTURER, THE APPROVED LABELING AGENCY AND THE PRODUCT DESIGNATION AS SPECIFIED IN AAMA/NWWDA 101/I.S.2 OR 101/I.S.2/NAFS. PRODUCTS TESTED AND LABELED AS CONFORMING TO AAMA/NWWDA 101/I.S.2 OR 101/I.S.2/NAFS SHALL NOT BE SUBJECT TO THE REQUIREMENTS OF SECTIONS 2403.2 AND 2403.3*. EXTERIOR WINDOWS AND DOOR ASSEMBLIES NOT PROVIDED FOR IN SECTION 1714.5.1. EXTERIOR WINDOW AND DOOR ASSEMBLIES SHALL BE TESTED IN ACCORDANCE WITH ASTM E330. EXTERIOR WINDOW AND DOOR ASSEMBLIES CONTAINING GLASS SHALL COMPLY WITH SECTION 2403. THE DESIGN PRESSURE FOR TESTING SHALL BE CALCULATED IN ACCORDANCE WITH CHAPTER 16. EACH ASSEMBLY SHALL BE TESTED FOR 10 SECONDS AT A LOAD EQUAL TO 1.5 TIMES THE DESIGN PRESSURE*.

2. METAL DOORS AND FRAMES

WORK INCLUDED:
FURNISH AND INSTALL METAL DOORS AND DOOR FRAMES AS SHOWN ON THE DRAWINGS AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION.

MATERIALS: DOORS AND FRAMES SHALL BE EQUIVALENT TO STEEL CRAFT, LABELED OR NON-LABELED AND SIZE AS INDICATED ON DRAWINGS.

STEEL DOORS SHALL BE FULL-FLUSH DESIGN L-18 (18 GAUGE) REINFORCED FOR FINISH HARDWARE AND WITH BAKED ON PRIME PAINT STEEL FRAMES SHALL BE FURNISHED KNOCKED DOWN, TYPE F-16 (16 GAUGE), MITERED CORNERS SHALL HAVE HEAVY REINFORCEMENTS WITH FOUR TABS FOR SECURING AND INTERLOCKING JAMB TO HEAD, PROPER REINFORCEMENT AND CUT-OUT FOR FINISH HARDWARE. FRAMES SUPPLIED WITH SUITABLE JAMB AND BASE ANCHORS, RUBBER BUMPERS AND PRIME PAINTED.

3. WOOD DOORS

PROVIDE AND INSTALL STANDARD SOLID-CORE, FLUSH WOOD DOORS.
FACE VENEER: REFER TO COLOR AND DOOR SCHEDULES FOR LIST OF DOORS TO RECEIVE SCHEDULED FINISHES.

SOLID CORE: MAT FORMED WOOD PARTICLE BOARD, TYPE 1. DENSITY, CLASS 1, COMMERCIAL STANDARD CS236-66, AS MANUFACTURER, BY U.S. PLYWOOD, GENERAL VENEER OR WEYERHAUSER.

DOORS SHALL BE MANUFACTURED PER MILL WORK STANDARDS OF THE ARCHITECTURAL WOODWORK INSTITUTE (AWI) FOR PREMIUM GRADE.

EDGE BANDING:
PAINTED FINISH: MILL OPTION
STAINED FINISH: MATCH FACE VENEER.

CUTOUTS FOR GLAZING OR LOUVERS SHALL HAVE HARDWOOD FRAMES AND STOPS.

ADHESIVES: CONFORM TO CS 35 TYPE II, FOR INTERIOR DOORS AND TYPE I FOR EXTERIOR DOORS.

DOORS TO HAVE METAL LOUVERS AS INDICATED ON THE DRAWINGS SHALL BE 24 GAUGE WITH CHEVRON TYPE BLADES WITH FREE AIR 50% TOTAL AREA AND BE PRIME PAINTED.

PRE-FIT DOORS AT FACTORY WITH CLEARANCES OF 1/8" AT EACH VERTICAL EDGE AND AT TOP, 3/8" AT BOTTOM, AND 1/4" IN 2" BEVEL AT LOCK EDGE, 1/2" CLEARANCE ABOVE FLOOR WITHOUT THRESHOLD, 1/4" ABOVE FLOOR WITH THRESHOLD.

INSTALL DOORS TO COMPLY WITH MANUFACTURER'S INSTRUCTIONS. FIT DOORS TO FRAMES WITH UNIFORM CLEARANCE AND BEVELS. MACHINE DOORS FOR HARDWARE, IF REQUIRED. REFINISH OR REPLACE DOORS DAMAGED DURING INSTALLATION.

4. FINISH HARDWARE

SECURITY NOTES - SWINGING DOORS:
ALL PIN-TYPE HINGES WHICH ARE ACCESSIBLE FROM OUTSIDE THE SECURED AREA WHEN THE DOOR IS CLOSED SHALL HAVE NON-REMOVABLE HINGE PINS. IN ADDITION, THEY SHALL HAVE 1/4" MINIMUM DIAMETERS STEEL JAMB STUDS WITH 1/2" MINIMUM PROJECTION, UNLESS THE HINGES ARE SHAPED TO PREVENT DOOR REMOVAL IF HINGE PINS ARE REMOVED.

STRIKE PLATES FOR LATCHES AND HOLDING DEVICES FOR PROJECTING DEAD BOLTS IN WOOD CONSTRUCTION SHALL BE SECURED TO THE JAMB AND WALL FRAMING WITH SCREWS NOT LESS THAN 2-1/2" IN LENGTH.

DEAD BOLTS SHALL CONTAIN HARDENED INSERTS.

STRAIGHT DEAD BOLTS SHALL HAVE A MINIMUM THROW OF 1" AND AN EMBEDMENT OF NOT LESS THAN 5/8"

HOOK SHAPED OR EXPANDING LAG DEAD BOLTS SHALL HAVE A MINIMUM THROW OF 3/4"

CYLINDER GUARDS SHALL BE INSTALLED ON ALL CYLINDER LOCKS WHENEVER THE CYLINDER PROJECTS BEYOND THE FACE OF THE DOOR OR IS OTHERWISE ACCESSIBLE TO GRIPPING TOOLS.

HARDWARE NOTES: REFERENCE HARDWARE SCHEDULE FOR SPECIFICATIONS.

KEYING: ALL CYLINDERS SHALL BE REMOVABLE CORE. MASTER KEYED TO INSTA-KEY SYSTEM. REFER DOOR HARDWARE SCHEDULE

FASTENERS:
PROVIDE ALL HARDWARE WITH ALL NECESSARY SCREWS, AND OTHER FASTENERS OF SUITABLE SIZE AND TYPE TO ANCHOR THE HARDWARE IN POSITION FOR LONG LIFE UNDER HARD USE.

FURNISH ITEMS COMPLETE WITH EXPANSION SHIELDS, TOGGLE BOLTS AND OTHER ANCHORS, IN ACCORDANCE WITH THE MATERIAL TO WHICH THE HARDWARE IS TO BE APPLIED AND THE RECOMMENDATIONS OF THE HARDWARE MANUFACTURER.
FASTENER FINISH SHALL HARMONIZE WITH THE HARDWARE MATERIAL. INSTALL HARDWARE ITEMS IN ACCORDANCE WITH THE SCHEDULE INCLUDED ON THE DRAWINGS, EXCEPT AS SPECIFICALLY REQUIRED TO COMPLY WITH LOCAL CODES AND AS RECOMMENDED BY THE DOOR AND HARDWARE INSTITUTE.

INSTALL HARDWARE IN COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. SET UNITS LEVEL, PLUMB AND TRUE. ADJUST AND CHECK OPERATION OF EVERY UNIT. REPLACE UNITS WHICH CANNOT BE ADJUSTED TO OPERATE FREELY AND SMOOTHLY.

COORDINATE WITH OTHER TRADES TO ASSURE PROPER AND ADEQUATE PROVISION IN THE WORK OF THOSE TRADES FOR INTERFACE WITH THE WORK OF THIS SECTION.

5. INSULATING GLASS UNIT

TEMPERED GLASS SHALL CONFORM WITH CPSC, ANSI, Z97.1, ASTM, FGMA STANDARDS

ENERGY CODE DATA FOR GLASS:
REFERENCE WINDOW SCHEDULE FOR SPECIFICATION.

6. GLAZING

ALL GLAZING SHALL CONFORM TO CONSUMER PRODUCT SAFETY STANDARD 16 CFR, PART 1201.

ALUMINUM STOREFRONT SYSTEM: THE SYSTEM SHALL BE AS NOTED ON THE DRAWINGS AS MANUFACTURED BY: KAWNEER COMPANY, INC., NORTHRUP ARCHITECTURAL SYSTEM.

STORE FRONT SHALL BE STRUCTURALLY REINFORCED, EXTRUDED ALUMINUM FRAMING COMPLETE WITH GLASS, NON-STRETCH HIGH SHORE VINYL AND ANCHORAGE ATTACHMENTS AND SHIMS REQUIRED TO SECURE WINDOW WALLS TO BUILDING STRUCTURAL SYSTEM.

FRAMES: SIZES AS SHOWN ON THE DRAWINGS, COMMERCIAL QUALITY EXTRUDED ALUMINUM (ASTM 8221), COMPLETE WITH MATCHING PROFILE STOPS TO SUIT FRAMES AND OF ADEQUATE SIZE TO PROVIDE SUFFICIENT BITE ON GLASS, AND DRILLED HOLES, DEFLECTOR PLATES AND INTERNAL FLASHING TO ACCOMMODATE INTERNAL WEEP AND DRAINAGE SYSTEM.

REFER TO WINDOW SCHEDULE FOR ANODIZED ALUMINUM FINISH COLOR.

7. DRIVE-THRU WINDOW

PASS THROUGH WINDOW AT DRIVE-THRU WITH LOCK, PRE-GLAZED WITH ALUMINUM FRAME. SEE WINDOW SCHEDULE ON ELEVATION SHEETS FOR MANUFACTURERS AND DETAILED SPECS.

DIVISION 9 - FINISHES

1. GYPSUM WALLBOARD

PROVIDE ALL WORK IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS AS REQUIRED HEREIN AND AS SHOWN ON THE DRAWINGS FOR COMPLETE ERECTION AND FINISH OF DRYWALL PARTITIONS.

COMPLY WITH "GYPSUM CONSTRUCTION AND HANDBOOK" BY UNITED STATES GYPSUM CO. AND "RECOMMENDED SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF GYPSUM BOARD" BY THE GYPSUM ASSOCIATION FOR ALL INSTALLATION WORK.

FIRE-RATED GYPSUM WALLBOARD, ASTM C63078. USE 4 FEET WIDE SHEETS WITH LONG TAPERED EDGE. THICKNESS SHALL BE 5/8". UNITED STATES GYPSUM CO. SHEET-ROCK W/R FIRE CODE "C" FOR FIRE RATED PANELS. SEAL ALL EXPOSED AND CUT EDGES PER MANUFACTURERS RECOMMENDATIONS.

USE 1/2" MOISTURE RESISTANT GYPSUM BOARD IN AREAS SPECIFIED ON THE PLANS AND AT ALL TILE WORK WITHIN 48" OF WET AREAS. EACH SHEET SHALL BE MARKED BY THE MANUFACTURER INDICATING THE MOISTURE RESISTANT CAPABILITIES OF THE PRODUCT.

INSTALL GYPSUM WALLBOARD WITH LONG DIMENSION PERPENDICULAR TO FRAMING.

INSTALL PER MANUFACTURE'S WRITTEN INSTRUCTIONS.

METAL-STUDS-CHANNEL-TYPE, ROLL FORM 25 GAUGE MIN (UNLESS NOTED OTHERWISE), SIZE AS NOTED ON DRAWINGS.

CARRYING CHANNELS AND HANGING WIRE - 1-1/2" DEEP, 475 LBS PER 1,000 FEET. MINIMUM 8 GAUGE HANGING WIRE AT 48" O.C. EACH WAY.

FURRING CHANNELS - 1/2" HAT SHAPED.

FASTENING: NAILS-NO. 19 GUAGE, 1-3/8" LONG, 15/64" HEAD ANNULAR RING NAIL, 7" ON CENTER AT CEILING, 8" ON CENTER AT WALLS.

SCREWS - METAL SUSPENSION, SYSTEM, TYPE "S-12" BUGLE, SELF-TAPPING, 1/2" MINIMUM PENETRATION IN METAL FRAMING.

METAL EDGES SHALL BE APPLIED AT ALL EXPOSED CORNERS, ENDS, ETC.

ACCESS PANELS: INRYCO/MILCOR, (414) 383-4030; TYPE "M" WITH FLUSH SCREW DRIVE OPERATED LOCKS. IN GYPSUM DRYWALL AND CEILINGS USE PRIME COATED STEEL. IN TILE FINISH WALL AND "FRP" FINISH WALLS USE STAINLESS STEEL FRAMES AND PANELS.

2. CERAMIC TILE

STANDARDS: MORTAR AND GROUT MATERIALS AND INSTALLATION STANDARDS OF THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) AND STANDARD SPECIFICATION FOR CERAMIC TILE ANSI A137.1 APPLY TO THE WORK, EXCEPT AS OTHERWISE INDICATED.

MATERIALS: REFERENCE TILE SCHEDULE

TRIM SHAPES: SAME MATERIAL, SIZE, COLOR AND TEXTURE AS FIELD TILE UNLESS NOTED OTHERWISE.

EDGE STRIPS: PROVIDE AT EXPOSED EDGE OF TILE MEETING CARPET, WOOD OR RESILIENT FLOORING UNLESS NOTED OTHERWISE REFERENCE DRAWINGS FOR SIZE AND SHAPE.

CLEANING AND PROTECTION: CLEAN TILE IN ACCORDANCE WITH APPLICABLE ANSI STANDARD FOR TYPE OF TILE AND METHOD OF INSTALLATION USED AND MANUFACTURER'S INSTRUCTIONS. APPLY HEAVY KRAFT PAPER OR OTHER HEAVY PROTECTIVE COVERING TO PREVENT SURFACE DAMAGE.

3. LAY-IN CEILING TILE

PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, ETC., REQUIRED TO SUPPLY AND INSTALL ARMSTRONG LAY-IN TILE AND CHICAGO METALLIC SUSPENSION SYSTEM, INCLUDING WIRE HANGERS, MAIN TEE RUNNERS, CROSS TEES, ANGLE MOLDING AND HOLD-DOWN CLIP WHERE REQUIRED. SEE REFLECTED CEILING PLAN AND COLOR LEGEND FOR MANUFACTURER AND TYPE.

SUSPENSION SYSTEM: 01, MAIN TEE RUNNERS SHALL BE INSTALLED AT 48" O.C. HAVING CROSS TEES AT 24" O.C. INCLUDING #425 ACCESSIBLE HOLD-DOWN CLIPS AND PERIMETER WALL MOLDING AT ALL VERTICAL ABUTTING SURFACES.

CONTRACTOR TO PROVIDE 1 CARTON, TEN (10) PIECES MINIMUM AT JOB SITE TO OWNER'S REPRESENTATIVE FOR FUTURE MAINTENANCE.

COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

PAINTING:
WORK INCLUDES SURFACES PREPARATION AND PAINTING OR FINISHING OF ALL INTERIOR SURFACES EXPOSED TO VIEW, THROUGHOUT THE PROJECT. WHERE ITEMS OR SURFACES ARE NOT SPECIFICALLY MENTIONED, PAINT THE SAME AS SIMILAR ADJACENT MATERIALS OR AREAS. THE WORK OF THIS SECTION INCLUDES, BUT IS NOT NECESSARILY LIMITED TO PAINTING OR FINISHING OF ALL INTERIOR DRYWALL SURFACES NOT FINISHED OTHERWISE.

A. MATERIALS:
PROVIDE PRODUCTS EQUAL TO MATERIALS LISTED IN THE FINISH SCHEDULE. NOTE THAT PROPRIETARY NAMES USED TO DESIGNATE COLORS (ON THE DRAWINGS) OR MATERIALS (SCHEDULED HEREIN) ARE NOT INTENDED TO IMPLY THAT PRODUCTS OF NAMED MANUFACTURER ARE REQUIRED TO EXCLUSION OF EQUIVALENT PRODUCTS OF OTHER MANUFACTURERS. PRIOR APPROVAL OF OWNERS REPRESENTATIVE REQUIRED.

B. SURFACE PREPARATION:
CLEAN SURFACES OF DIRT, RUST SCALE, GREASE, MOISTURE OR OTHER CONDITIONS OTHERWISE DETRIMENTAL TO FORMATION OF A DURABLE PAINT FILM. PERFORM PREPARATION AND CLEANING PROCEDURES IN ACCORDANCE WITH PAINT MANUFACTURER'S PRINTED INSTRUCTIONS FOR EACH PARTICULAR SUBSTRATE CONDITION.

GALVANIZED METAL: CLEAN ALL SURFACES THOROUGHLY WITH SOLVENT UNTIL THEY ARE COMPLETELY FREE FROM DIRT, OIL AND GREASE. ALLOW TO DRY THOROUGHLY BEFORE APPLICATION OF PAINT.

REMOVE HARDWARE, ACCESSORIES, PLATES, LIGHTING FIXTURES, AND SIMILAR ITEMS IN PLACE AND NOT TO BE FINISH PAINTED, OR PROVIDE SURFACED APPLIED PROTECTION PRIOR TO SURFACE PREPARATION AND PAINTING OPERATIONS. REMOVE, IF NECESSARY, FOR COMPLETION OF PAINTING OF EACH SPACE OR AREA, REINSTALL REMOVED ITEMS.

C. APPLICATION:
GENERAL: THE FINISHED SURFACE SHALL BE FREE FROM RUNS, SAGS, DROPS, RIDGES, WEAVES, LAPS, BRUSH MARKS AND VARIATIONS IN COLOR, TEXTURE AND FINISH.

COATING PROCESS: SUFFICIENT TIME SHALL ELAPSE BETWEEN SUCCESSIVE COATS TO PERMIT PROPER DRYING.

MIXING AND THINNING: AT TIME OF APPLICATION, PAINT SHALL SHOW NO SIGNS OF HARD SETTLING, EXCESSIVE SKINNING, LIVERING OR OTHER DETERIORATION. PAINT SHALL BE THOROUGHLY STIRRED, STRAINED AND KEPT AT A UNIFORM CONSISTENCY DURING APPLICATION.

STORAGE: THE PAINTER SHALL STORE ALL MATERIALS AND EQUIPMENT IN A ROOM ASSIGNED FOR THAT PURPOSE. PRECAUTIONS SHALL BE TAKEN TO REDUCE FIRE HAZARD AND THE ROOM SHALL BE KEPT CLEAN AND IN GOOD CONDITION.

CLEAN UP: SCHEDULE ALL CLEANING AND PAINTING SO THAT DUST AND OTHER CONTAMINANTS FROM THE CLEANING PROCESS WILL NOT FALL ON WET, NEWLY PAINTED SURFACES. DURING THE PROGRESS OF THE WORK, DO NOT ALLOW THE ACCUMULATION OF EMPTY CONTAINERS OR OTHER EXCESS ITEMS. REMOVE FROM SITE DISCARDED PAINT MATERIALS, RUBBISH, CANS AND RAGS AT END OF EACH WORK DAY. UPON COMPLETION OF PAINTING WORK, CLEAN WINDOW GLASS AND OTHER PAINT SPLATTERED SURFACES. REMOVE SPLATTERED PAINT AND REPAIR DEFACED PAINTED SURFACES AFTER COMPLETION OF WORK OF OTHER TRADES. IF OWNER DEEMS CLEAN-UP IS NOT SATISFACTORY, AN INDEPENDENT CLEANING SERVICE WILL BE BROUGHT IN, AT THE CONTRACTOR'S EXPENSE TO COMPLETE THE CLEAN-UP.

CONTRACTOR SHALL PROVIDE ONE (1) QUART OF UNOPENED PAINT, STAIN AND SEALER OF EACH COLOR AND TYPE USED IN LABELED, COVERED CANS FOR THE OWNER. PLACE IN CARTONS FOR STORAGE.

SEE PAINT SCHEDULE, SHEET G-005. FINAL FINISH IS SUBJECT TO APPROVAL BY OWNER, IF FINISH IS DEEMED UNSATISFACTORY, ANOTHER APPLICATION WILL BE REQUIRED AT THE CONTRACTORS EXPENSE. PROVIDE PAINT AND COATINGS AS LISTED BELOW:

5. EXTERIOR PAINTING

A. METAL
ONE COAT PRIMER
TWO COATS PER SCHEDULE
(NOTE: PRIMER MAY BE ELIMINATED IF ITEM IS FACTORY PRIMED)

B. CEMENT PLASTER:
ONE COAT PRIMER
TWO COATS PER SCHEDULE

C. CONCRETE MASONRY (EXPOSED):
ONE COAT SEALER
TWO COATS MASONRY PAINT PER SCHEDULE

D. SAW-TEXTURED WOOD SURFACE:
ONE COAT STAIN PER SCHEDULE

E. TRASH ENCLOSURE (INSIDE)
ONE COAT CONCRETE BLOCK FILLER
TWO COATS VINYL-ACRYLIC PAINT, COLOR TO MATCH BUILDING

6. INTERIOR PAINTING

A. METAL
ONE COAT PRIMER
TWO COATS PER SCHEDULE
(NOTE: PRIMER MAY BE ELIMINATED IF ITEM IS FACTORY PRIMED)

B. WOOD DOORS (PAINTED):
ONE COAT INTERIOR TRIM PRIMER
TWO COATS PER SCHEDULE

C. SMOOTH FINISH GYPSUM BOARD WALL AND CEILINGS
(GLOSS OR EGGSHELL):
ONE COAT WALL PRIMER
TWO COATS PER SCHEDULE

D. OAK TRIM (SMOOTH WOOD) "LACQUERED"
ONE COAT LACQUER SANDING SEALER
TWO COATS SEMI-GLOSS LACQUER

E. INSIDE THROATS OF AIR CONDITIONING SUPPLY AND RETURN
DUCTS IN PUBLIC AREAS
SPRAY BLACK TO A POINT OUT OF VIEW

7. GENERAL FINISH NOTES

ALL TILE DIMENSIONS ARE DESIGNED TO LAY OUT IN AN EQUAL MANNER. IF TILE MUST BE CUT, THE GROUT LINES SHALL ALIGN WITH ADJACENT TILES OR BE CENTERED AND CUT IN AN OBVIOUS LOCATION. G.C. SHALL COORDINATE THE INSTALLATION OF GYP. BD. WITH TILE DIMENSIONS TO PERMIT EVEN INSTALLATION.

ALL SURFACES TO RECEIVE PAINT FINISH SHALL BE PREPARED TO SHOW NO DEFECTS.
A. APPLY ONE (1) COAT PRIMER-SEALER
B. APPLY TWO (2) COATS FINISH. NO STIPPLE FINISH ON ALL PAINTED SURFACES.
SEE SCHEDULE ON PLANS FOR COLOR AND TYPE.

ALL INTERIOR GYP. BD. TO RECEIVE PAINT FINISH SHALL BE TAPED, SEALED AND SANDED TO RECEIVE FINISH. GYP. BD. UNDER FRP OR S.S. SHALL ONLY BE FIRE TAPED AND SANDED. ALL INTERIOR GYP. BD. TO BE TRUE AND LEVEL.

GYP. BD. SHALL EXTEND A MINIMUM OF 6" ABOVE LAY-IN CEILING OR UP TO GYP. BD. CEILING. GYP. BD. ON DEMISING WALLS SHALL EXTEND TO THE STRUCTURE ABOVE UNLESS OTHERWISE NOTED.

ALL FLOORS SHALL BE SMOOTH AND LEVEL WITHOUT DEPRESSED OR RAISED AREAS, EXCEPT PROVISION SHALL BE MADE TO HAVE SMOOTH, EVEN SLOPE TO FLOOR DRAINS. THE SURFACE SHALL BE ACCEPTABLE TO RECEIVE FINISH.

VERIFY AND COORDINATE THE LOCATION OF ALL WALL OR CEILING ACCESS PANELS WITH THE OWNER'S PROJECT MANAGER.

PROVIDE METAL CORNER BEAD, TRIM AND CASING FOR ALL EDGES AND CORNERS OF GYP. BD. SURFACES ON PAINTED WALLS. CLEAN GYP. BD. CORNERS WITHOUT METAL CORNER BEADS SHALL BE UNDER FRP, TILE, OR S.S.

PROVIDE STIFFENERS, BRACING, BACK-UP PLATES, ETC. AS REQUIRED AT STUD WALLS FOR SUPPORT OF FIXTURES AND OTHER EQUIPMENT.

ALL EXISTING SURFACES SHALL BE INSPECTED AND ALL NECESSARY PREPARATORY WORK SHALL BE DONE IN ORDER TO RECEIVE NEW FINISHES.

BEFORE PAINTING OR FINISHING WORK IS TO BEGIN, ARRANGEMENTS SHALL BE MADE FOR PROPER VENTILATION AND LIGHTING IN ALL AREAS.

ALL FLOOR MATERIAL CHANGES SHALL OCCUR AT DOOR CENTERLINE UNLESS OTHERWISE NOTED.

FLOOR MATERIALS SPECIFIED ON THE FINISH SCHEDULE SHALL EXTEND UNDER ALL EQUIPMENT AND COUNTER AREAS.

FLOOR CONTRACTOR SHALL SUBMIT TO OWNER THREE COPIES OF MANUFACTURER'S MAINTENANCE MANUALS FOR THE FLOOR MATERIAL INSTALLED.

ALL TILE SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED IN THE HANDBOOK FOR CERAMIC TILE INSTALLATION OF THE TILE COUNCIL OF AMERICA (CURRENT EDITION).

ALL INTERIOR FINISHES SHALL COMPLY WITH APPLICABLE LOCAL CODES AND REGULATIONS.

EACH SUBCONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT ADEQUATE SURFACE CONDITIONS EXIST FOR THEIR WORK. IF ADEQUATE SURFACE CONDITIONS DO NOT EXIST THE SUBCONTRACTOR SHALL NOT PERFORM THEIR WORK UNTIL THE CONDITION IS CORRECTED.

CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS.

DIVISION 10 - SPECIALTIES

1. PORTABLE FIRE EXTINGUISHERS

PROVIDE CLASS ABC, 10 LB. DRY CHEMICAL OR AS REQUIRED BY FIRE CODES. MINIMUM (ONE) FURNISHED BY G.C. AT START OF CONSTRUCTION.

2. WALL VENT

GALVANIZED STEEL FRAME AND 45 DEG. BLADES, INSECT SCREEN, PRIME COATED. SEE DRAWINGS FOR SIZE.

3. SOFFIT VENT

FRY REGLET "CLEAR FINISH EIFS SOFFIT VENT" 3" W X 1/4"D.

4. TOILET ROOM ACCESSORIES

SEE ARCHITECTURAL DRAWINGS FOR TOILET ROOM ACCESSORIES SCHEDULE.

DIVISION 11 - EQUIPMENT

1. FOOD SERVICE EQUIPMENT

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THIS WORK AND FOR ASSEMBLIES AND HOOK-UP OF FOOD SERVICE EQUIPMENT PROVIDED BY OTHERS. SUCH AS, BUT NOT LIMITED TO, WALK-IN COOLER, WALK-IN FREEZER AND COMPLETE HOT WELLS SERVICE COUNTER ASSEMBLIES.

2. RELATED WORK DESCRIBED ELSEWHERE

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR WORK OF SECTION "PLUMBING" INCLUDES SETTING OF FAUCETS AND CONNECTIONS TO SERVICES, INTERCONNECTIONS OF EQUIPMENT, FLOOR DRAINS IN THE VICINITY OF INDIRECT DRAIN OUTLETS, FAUCETS AND TRIM.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ELECTRIC WORK INCLUDES ALL LINE SWITCHES, SAFETY CUT-OUTS, CONTROL PANELS, FUSE BOXES AND OTHER CONTROLS, ELECTRICAL RECEPTACLES, FITTINGS AND CONNECTIONS, EXCEPT AS OTHERWISE SPECIFIED IN SECTION "ELECTRICAL", ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO BUILDING FROM ALL JUNCTION BOXES.

3. AS-BUILT DRAWINGS

GENERAL CONTRACTOR SHALL KEEP AN ACCURATE DIMENSIONED RECORD ON REPRODUCIBLE TRANSPARENCIES OF AS-BUILT LOCATIONS, AND OF WORK WHICH IS INSTALLED DIFFERENTLY FROM THAT SHOWN.

4. LOCATIONS AND ACCESSIBILITY

CONTRACTOR SHALL FULLY INFORM HIMSELF REGARDING PECULIARITIES AND LIMITATIONS OF SPACES AVAILABLE FOR INSTALLATION OF WORK AND MATERIALS FURNISHED AND INSTALLED UNDER THIS DIVISION. DRAWINGS INDICATE LOCATION AND ARRANGEMENT OF CONDUIT, EQUIPMENT AND OTHER ITEMS AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. WORK SPECIFIED AND NOT CLEARLY DEFINED BY DRAWINGS SHALL BE INSTALLED AND ARRANGED IN A MANNER SATISFACTORY TO PANDA PM. IN EVENT CHANGES IN INDICATED LOCATIONS AND ARRANGEMENTS ARE DEEMED NECESSARY BY PANDA PM, THEY SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL CHARGES PROVIDED THAT THE CHANGES ARE ORDERED BEFORE THE WORK IS INSTALLED AND NO EXTRA MATERIALS OR LABOR ARE REQUIRED.

5. CLEANING OF EQUIPMENT, MATERIALS AND PREMISES

CLEAN EQUIPMENT AND MATERIALS THOROUGHLY. LEAVE SURFACES TO BE PAINTED SMOOTH AND CLEAN, READY FOR PAINTERS. CLEAN ENTIRE PREMISES OF UNUSED MATERIALS, RUBBISH, DEBRIS AND DIRT CREATED BY WORK UNDER THIS DIVISION.

6. OPERATION AND MAINTENANCE INSTRUCTIONS

FULLY INSTRUCT AND DEMONSTRATE TO THE OWNER'S OPERATING PERSONNEL THE PERFORMANCE, OPERATION AND MAINTENANCE OF EQUIPMENT. THE TIME ALLOWED FOR SAID INSTRUCTION SHALL BE ALLOWED FOR EACH CONTRACTOR AS PART OF THESE CONTRACT DOCUMENTS.

7. TESTING AND ADJUSTMENT

UPON COMPLETION OF ELECTRICAL WORK, ADJUST AND TEST CIRCUITS, OUTLETS, SWITCHES, LIGHTS, MOTORS AND TIME CLOCKS TO INSURE PROPER OPERATION OF ELECTRICAL EQUIPMENT. CHECK SERVICE VOLTAGES UNDER MAXIMUM LOAD. ITEMS, FIXTURES AND PARTS IN NEED OF CORRECTION AND DISCOVERED DURING SUCH TESTING SHALL BE IMMEDIATELY REPAIRED OR REPLACED WITH NEW EQUIPMENT, AND THAT PART OF THE SYSTEM SHALL BE RETESTED. SUCH REPLACEMENT OR REPAIR SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.

DIVISION 12 - FURNISHINGS

1. NOT USED

DIVISION 13 -SPECIAL CONSTRUCTION

1. NOT USED

DIVISION 14 - CONVEYING SYSTEM

1. NOT USED

DIVISION 15 - MECHANICAL

1. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR SPECIFICATIONS

DIVISION 16 - ELECTRICAL

1. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL SPECIFICATIONS

FIRE PREVENTION NOTES

1. ALL WORK SHALL COMPLY WITH THE VERSION OF THE INTERNATIONAL FIRE CODE AS AMENDED AND ADOPTED BY THE LOCAL AGENCIES HAVING AUTHORITY.

2. THE CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS (NUMBER AND TYPE) AS SHOWN ON THE DRAWINGS AND REQUIRED BY LOCAL JURISDICTIONS. COORDINATE EXACT LOCATIONS WITH PANDA EXPRESS'S REPRESENTATIVE.

3. PROVIDE ONE PORTABLE FIRE EXTINGUISHER WHICH HAS A CLASSIFICATION OF NOT LESS THAN K TYPE FOR KITCHEN (U.F.C. SEC. 10.303) LOCATION TO BE APPROVED BY THE LOCAL AUTHORITIES PRIOR TO INSTALLATION.

4. PENETRATIONS OF RATED WALLS SHALL BE PROTECTED BY ASSEMBLIES OF APPROPRIATE RATING, INCLUDING DOORS, DUCTS, ETC. ALL REQUIRED FIRE DAMPER ASSEMBLIES INCLUDING SLEEVES AND INSTALLATION PROCEDURES SHALL BE APPROVED BY THE BUILDING DEPARTMENT INSPECTOR PRIOR TO INSTALLATION.

5. ALL AIR-HANDLING CUT-OFF AND SMOKE-DETECTED FIRE DAMPING EQUIPMENT REQUIRED BY THE LOCAL AGENCIES HAVING AUTHORITY SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

6. WHERE REQUIRED, FLAME SPREAD RATINGS OF MATERIAL USED IN THE CONSTRUCTION WILL BE SUPPLIED TO THE FIRE DEPARTMENT BY THE CONTRACTOR ORDERING THE MATERIALS.

7. ILLUMINATED EXIT SIGNS WITH BATTERY PACKS AND AUDIBLE SIGNALS SHALL BE PROVIDED AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY CODE.

8. IF REQUIRED, COORDINATE FIRE SPRINKLER SYSTEM REQUIREMENTS WITH LOCAL AUTHORITIES. INSTALLATION SHALL COMPLY WITH NFPA 13. FIRE SPRINKLER PROTECTION SHALL BE PROVIDED ABOVE AND INSIDE WALK-IN COOLER AND FREEZERS.

9. INTERIOR FINISH SHALL COMPLY WITH ALL APPLICABLE CODES.

10. PROVIDE AN APPROVED AUTOMATIC FIRE EXTINGUISHING SYSTEM IN THE COOKING EXHAUST HOOD.

11. ALL DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION.

12. DUCTS SERVING A COOKING EXHAUST HOOD SHALL BE ENCLOSED IN A FIRE RATED ENCLOSURE (SEE MECHANICAL DRAWINGS FOR REQUIREMENT).

13. BUILDING NUMBERS SHALL BE EASILY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.

14. THE CONSTRUCTION, REMODEL, OR DEMOLITION OF A BUILDING SHALL COMPLY WITH ALL APPLICABLE CODES.

15. PROVIDE OCCUPANT LOAD SIGN COMPLYING WITH CODE.

16. EXIT DOORS SHALL HAVE PANIC HARDWARE AND SHALL SWING IN THE DIRECTION OF EXIT TRAVEL WHEN SERVING ANY HAZARDOUS AREAS, OR ANY OTHER OCCUPANC

EXTERIOR FINISH SCHEDULE

INSTALLED AND FURNISHED BY, G.C. UNLESS NOTED OTHERWISE

03-04-22

NO	MANUFACTURER	MFG#	COLOR	FINISH	NOTES
EIFS-1	STO	STOTHERM ESSENCE SYSTEM	SW 7646 FIRST STAR	FINE	BUILDING BODY NOTE: EIFS TO RECEIVE FINAL COAT OF STO-CORP STO-LASTIC ELASTOMERIC COATING TINTED TO DESIRED COLOR AS SCHEDULED
EIFS-2	STO	STOTHERM ESSENCE SYSTEM	SW 7069 IRON ORE	FINE	EIFS ACCENT BAND NOTE: EIFS TO RECEIVE FINAL COAT OF STO-CORP STO-LASTIC ELASTOMERIC COATING TINTED TO DESIRED COLOR AS SCHEDULED
EIFS-3	STO	STOTHERM ESSENCE SYSTEM	PANTONE COLOR 200C - RED	-	EIFS BEHIND TRELLIS NOTE: EIFS TO RECEIVE FINAL COAT OF STO-CORP STO-LASTIC ELASTOMERIC COATING TINTED TO DESIRED COLOR AS SCHEDULED
ST-1S	CORONADO STONE PRODUCTS	CHISELED STONE SILL	CHARCOAL	-	STONE CAP (3/8" VERTICAL JOINT - MORTAR TO MATCH STONE CAP) 1
ST-1	CORONADO STONE PRODUCTS	STRIP STONE	BLACK FOREST	-	WAINSCOT CONTACT: 864-962-1221 PROVIDE 3/8" MORTAR JOINTS. MFG.: ARGOS, COLOR: CHARCOAL
CD-1	FIBERON	WILDWOOD	BAMBOO	-	COMPOSITE DECKING - CONTACT: MARIA SCHOLLER 419-704-5924 EMAIL: maria.scholler@fiberoncladding.com 1
MTL-2	PANDA VENDOR	ALLEN INDUSTRIES	PMS BLACK- 7C	SATIN FINISH	CANOPY W/ LED W/ DOWN LIGHT AROUND BUILDING
MTL-1	EXCEPTIONAL METALS	-	"PANDA EXPRESS IRON ORE"		CAP FLASHING

TILE SCHEDULE

INSTALLED AND FURNISHED BY, G.C. UNLESS NOTED OTHERWISE

03-04-22

NO.	MANUFACTURER	DESCRIPTION	COLOR	FINISH	JOINT	GROUT	REMARK
T-108	CMC AGGREGATE DOUG SALATINO 518-713-5371	12" X 24" X 3/8"	-	-	1 / 8"	G-111	RESTROOM WALL
T-111	DALTILE	6" X 36" X 3/8" 9" X 36" X 3/8"	FOREST PARK - SUMMERTREE FP95	MATTE	1/8"	G-115	RR VESTIBULE & DINING ROOM WALLS CONTACT: NATIONAL ACCOUNT SUPPORT DESK 877.556.5728 (national.accounts@daltile.com)
T-124	CMC DOUG SALATINO 518-713-5371	24" X 24"	MARQUISETTE CALACATTA BLACK	MATTE	1/8"	G-116	DINING WAINSCOT
T-200	CMC DOUG SALATINO 518-713-5371	24" X 24"	BRAVADA GREIGE	MATTE	1/8"	G-96	DINING & RESTROOM FLOOR
T-321	DALTILE	3.562" SQUARE REVALIA BASE REMIX-FAN	FELICITY WHITE	GLOSSY	1/8"	G-114	BEVERAGE COUNTER BACKSPLASH AND SERVICE COUNTER
T-403	BEDROSIANS TAMARA RAMSEY 469-560-6133	1" X 12"	SAHARA	MATTE	1/8"	G-107	DINING ROOM FEATURE AREA
S1	SILIKAL	QUARTZ BLEND #4	-	PLAIN	-	-	KITCHEN, SERVICE FLOOR CONTACT:MARK FELDMAN 770-830-1404 (mfeldman@silikalamerica.com) JOHN COTHRAN 888-830-1404 (jcothran@silikalamerica.com)
S2	SILIKAL	QUARTZ BLEND #4	-	ABRASIVE	-	-	
M100	NOT USED	-	-	-	-	-	-

GROUT	MANUFACTURER	DESCRIPTION	MFG.	COLOR	FINISH	REMARK
G-96	MAPEI 800.42.MAPEI WWW.MAPEI.COM	LATEX MODIFIED GROUT	11	SAHARA BEIGE	POLY BLEND 1 / 8" NON-SANDED	DINING & RESTROOM FLOOR APPLY GROUT SEALER
G-107	MAPEI 800.42.MAPEI WWW.MAPEI.COM	LATEX MODIFIED GROUT	107	IRON	POLY BLEND 1 / 8" NON-SANDED	DINNING ROOM FLOOR APPLY GROUT SEALER
G-111	MAPEI 800.42.MAPEI WWW.MAPEI.COM	LATEX MODIFIED GROUT	19	PEARL GREY	POLY BLEND 1 / 8" NON-SANDED	RESTROOM , DINING APPLY GROUT SEALER
G-113	MAPEI 800.42.MAPEI WWW.MAPEI.COM	LATEX MODIFIED GROUT	07	CHOCOLATE	POLY BLEND 1 / 8" NON-SANDED	APPLY GROUT SEALER
G-114	MAPEI 800.42.MAPEI WWW.MAPEI.COM	LATEX MODIFIED GROUT	19	PEARL GREY	POLY BLEND 1 / 8" NON-SANDED	BEVERAGE COUNTER BACKSPLASH APPLY GROUT SEALER
G-115	MAPEI 800.42.MAPEI WWW.MAPEI.COM	LATEX MODIFIED GROUT	42	MOCHA	POLY BLEND 1 / 8" NON-SANDED	APPLY GROUT SEALER
G-116	MAPEI 800.42.MAPEI WWW.MAPEI.COM	LATEX MODIFIED GROUT	10	BLACK	POLY BLEND 1 / 8" NON-SANDED	DINING WAINSCOT APPLY GROUT SEALER

* REFER A-200 EXTERIOR FINISH SCHEDULE FOR EXTERIOR DECORATIVE TILE

* SCHLUTER SYSTEM ALUMINUM TRIM:

COVE TILE TRIM: INSTALLED AT RESTROOM, SERVICE COUNTER, AND DRINK STATION
SCHLUTER SYSTEMS DILEX-AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)
TR100 -OUTSIDE CORNER CONNECTOR PIECE: DILEX-AHK-E90/AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)
-INSIDE CORNER CONNECTOR PIECE: DILEX-AHK-I90/AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)
-END CAP PIECE: DILEX-AHK-E/AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

EDGE TILE TRIM:
SCHLUTER SYSTEMS RONDEC-RO125 AMGB (BRUSHED BRASS ANODIZED ALUMINUM)
TR107 -OUTSIDE CORNER CONNECTOR PIECE: RONDEC-EV/RO125 AMGB (BRUSHED BRASS ANODIZED ALUMINUM)
-INSIDE CORNER CONNECTOR PIECE: RONDEC-I2L/RO125 AMGB (BRUSHED BRASS ANODIZED ALUMINUM)

EDGE TILE TRIM: INSTALLED AT SERVICE COUNTER TOE KICK
SCHLUTER SYSTEMS JOLLY-A 80 AMGB (BRUSHED BRASS ANODIZED ALUMINUM)
TR103 -OUTSIDE EDGE PROTECTION PIECE

EDGE TILE TRIM: INSTALLED AT FLOOR INLAY
SCHLUTER SYSTEMS SHIENE-R/M 125 (SATIN BRASS ANODIZED ALUMINUM)
TR104

* EPOXY GROUT BY MAPEI, KERAPOXY IEG, 100% SOLIDS INDUSTRIAL GRADE:
AREAS: UNDER HOOD AND 36 " IN FRONT OF COOKING LINE, 3 COMPARTMENT SINK AND MOP SINK AREA

SEE MANUFACTURER'S SPECIFICATION, DETAILS AND GUIDE FOR PREPARATION, MIXING, GROUTING AND CLEANING INSTRUCTION

NOTE: SEE INTERIOR SHEETS FOR WALL/ BASE TILE LOCATIONS AND SPECIFICATIONS

TOILET ACCESSORY SCHEDULE

NO	DESCRIPTION
RG42	BOBRICK GRAB BAR, 42" LONG B-6806 1 1/2" , SATIN FINISH; FURNISHED BY LOCKNET, INSTALLED BY G.C.
RG48	BOBRICK GRAB BAR, 48" LONG B-6806 1 1/2" SATIN FINISH; FURNISHED BY LOCKNET, INSTALLED BY G.C.
RG18	BOBRICK GRAB BAR, 18" LONG B-6806 1 1/2" SATIN FINISH; FURNISHED BY LOCKNET, INSTALLED BY G.C.
RM	BOBRICK CHANNEL FRAME MIRROR B-165 (1836) 18"X36" STAINLESS STEEL CHANNEL FRAME FURNISHED BY LOCKNET, INSTALLED BY G.C. MOUNT 40" MAX. TO BOTTOM OF REFLECTING SURFACE
RS	SOAP DISPENSER (BY VENDOR)
RMS	BOBRICK SEAT COVER DISPENSER B-221 STAINLESS STEEL, SATIN FINISH FURNISHED BY LOCKNET, INSTALLED BY G.C.
RTR	BOBRICK SURFACE MOUNTED TRASH RECEPTACLE MODEL # B-277; FURNISHED BY LOCKNET, INSTALLED BY G.C.
RHD	PAPER TOWEL DISPENSER FURNISHED BY PANDA EXPRESS, INSTALLED BY G.C.
RMT	BOBRICK MUTI-ROLL TOILET TISSUE DISPENSER B-2888 STAINLESS STEEL, SATIN FINISH FURNISHED BY LOCKNET, INSTALLED BY G.C.
RT	AMERICAN STANDARD CADET RIGHT HEIGHT ELONGATED TOILET 2467.016 TLT, 4142.600 TANK, AMERICAN STANDARD #5321.110 SEAT, COLOR: WHITE. TRIP TO BE ON OPEN SIDE. FURNISHED AND INSTALLED BY G.C.
RL	ZURN WALL HUNG LAVATORY Z5344, 20" X 18" VITREOUS CHINA, WITH 4" CENTER FAUCET HOLES & ZURN Z-1231 CONCEALED ARM CARRIER FURNISHED AND INSTALLED BY G.C.
RD	BOBRICK RECESSED SANITARY NAPKIN DISPOSAL B-3513 STAINLESS STEEL, SATIN FINISH FURNISHED BY LOCKNET, INSTALLED BY G.C.
RH	BOBRICK SURFACE-MOUNTED CLOTHES HOOK AND BUMPER B-233 SOLID ALUMINUM CASTING, MATTE FINISH, INSIDE OF RESTROOM DOORS FURNISHED BY LOCKNET, INSTALLED BY G.C.

* INSULATE ALL PIPES (TRAP & HOT WATER) AT ACCESSIBLE LAVATORIES.

LIGHTING FIXTURE SCHEDULE

PROVIDED FOR INFORMATION ONLY.
VERIFY AND INSTALL PER ELECTRICAL DRAWING

03-04-22

ITEM	SYMBOL	DESCRIPTION	QTY.	MFR. & CAT. NO.	REMARK
INTERIOR LIGHTING ITEM					
L1	L1	T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	13	LSI FIXTURE: SFP24-LED-FS-UNV-DIM	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC
L1B	L1B	T-BAR CEILING RECESSED MOUNTED LED LIGHTING EMERGENCY FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	0	LSI FIXTURE: SFP22-LED-FS-DIM	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC
L1C	L1C	T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 1' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	0	LSI FIXTURE: SFP14-LED-FS-UNV-DIM	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC
L1EM	L1EM	T-BAR CEILING RECESSED MOUNTED LED LIGHTING EMERGENCY FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	4	LSI FIXTURE: SFP24-LED-FS-UNV-DIM-EM	EMERGENCY KITCHEN CEILING LIGHTS FURNISHED BY OWNER INSTALLED BY GC
L4HO	L4HO	UNIVERSAL MOUNT EXIT SIGN, LED LIGHTED, 120/277V WITH BATTERY PACK, 2 FACE, GREEN LETTER	4	EXITRONIX GVEX-U-BP-WB-BL-R6	EXIT SIGN FURNISHED BY OWNER, INSTALLED BY GC
L6A	L6A	HOOD LIGHT	12	FURNISHED & INSTALLED BY EQUIPMENT SUPPLIER	LIGHTS SUPPLIED & PRE-WIRED BY HOOD VENDOR. ELECTRIC CONTRACTOR TO CONNECT MAIN WIRES TO SHUNT TRIP BREAKER AND HOOD CONTROL PANEL
L6B	L6B	WALK-IN COOLER FLUORESCENT LIGHT, 120 V 48"	3	KASON FIXTURE: # 1181OLCT400 1	FURNISHED BY WIC VENDOR, G.R.E. , INSTALLED BY GC
L19	L19	DOWN LIGHT, RECESSED IN CEILING	27	ELITE HOUSING: LD6IC-AT ELITE TRIM: RL631-950L-DIMTR-120-30K-90-RL631-RT-W-WH	FURNISHED BY OWNER, INSTALLED BY GC
L19B	L19B	DOWN LIGHT, RECESSED IN CEILING "B" SHALL DESIGNATE BLACK TRIM	9	ELITE HOUSING: LD6IC-AT ELITE TRIM: RL631-950L-DIMTR-120-30K-90-RL631-RT-MB-BK	FURNISHED BY OWNER, INSTALLED BY GC
L19EM	L19EM	EMERGENCY DOWN LIGHT, RECESSED IN CEILING	6	ELITE HOUSING: LD6IC-AT ELITE TRIM: RL631-950L-DIMTR-120-30K-90-RL631-RT-W-WH	EMERGENCY RECESSED DOWN LIGHT - NORMALLY ON INVERTER UNIT - ISOLITE, IMI-12-LC-V1 FURNISHED BY OWNER INSTALLED BY GC
L20W	L20W	4" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING "W" SHALL DESIGNATE WHITE TRIM	6	ELITE HOUSING: BL4-50-M-120-AT-W ELITE TRIM: B1406-WH	FURNISHED BY OWNER, INSTALLED BY GC
L20B	L20B	4" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING "B" SHALL DESIGNATE BLACK TRIM	8	ELITE HOUSING: BL4-50-M-120-AT-W ELITE TRIM: B1406-BK	FURNISHED BY OWNER, INSTALLED BY GC
L30	L30	WHITE LED AT DINING ROOM CANOPY	33 L.F.	ZLED FIXTURE: VIL-SIGN-60W-WHT-DC-66MOD-STRING-KIT	FURNISHED BY OWNER, INSTALLED BY GC
L32	L32	WHITE LED AT FIXTURE LOW WALL	22 L.F.	NOVA FLEX - PRO SERIES FIXTURE: NF-CH-3525-2M WHITE	FURNISHED BY OWNER, INSTALLED BY GC
L49	L49	BRONZE SWOOP LIGHT	5	FIXTURE - TBD	DINING AREA - FURNISHED BY OWNER, INSTALLED BY GC
L50R	L50R	12" DIA. PENDANT	3	KAI PENDANT 2 BULB: LED EDISON LAMP.1173467	FURNISHED BY OWNER, INSTALLED BY GC
L100	L100	MICRO INVERTER	1	EVENLITE #PWII72LC 1	FURNISHED BY OWNER, INSTALLED BY GC
	S	SPEAKER		-	FURNISHED BY MUSIC VENDOR, INSTALLED BY MUSIC VENDOR

NIGHT LIGHTING REQUIREMENTS: "NL" DESIGNATION INDICATED NIGHT LIGHT ON UNSWITCHED CIRCUIT.
1. ONE NL BY SERVICE COUNTER, POS / CASHIER
2. ONE NL BY POS / CASHIER AT DRIVE THRU STATION IF APPLICABLE
3. ONE NL BY EACH EXIT DOORS IN DINNING ROOM & BACK OF HOUSE

EXTERIOR LIGHTING

L40	LINEAR LIGHT AT EXTERIOR STORAGE ROOM	1	COOPER MX-4VT2-LD4-6-DR-UNV-L840-CD1-WL-U FURNISHED BY OWNER, INSTALLED BY GC
L85	WALL MOUNTED OVER SERVICE DOOR FIXTURE	1	ORACLE: OWP-FC-116-LED-3500L-DIM10-MVOLT-50K-BK OVER EXTERIOR SERVICE DOOR. REFER ELEVATIONS FOR HEIGHT FURNISHED BY OWNER, INSTALLED BY GC
L86	NAVILITE EMERGENCY LIGHT	4	EXITRONIX MLED1-G-WP OVER EXTERIOR ENTRANCE & SERVICE DOORS. REFER ELEVATIONS FOR HEIGHT. FURNISHED BY OWNER, INSTALLED BY GC
L86 AEM	EXTERIOR RECESS EMERGENCY LIGHT	0	ELITE HOUSING: LD6IC-AT LED MODULE: ELITE LED LIGHTING WET LOCATION: RL607-14W-120-FL-30K-SN-SN -WET LOCATION EMERGENCY RECESSED DOWN LIGHT - NORMALLY ON INVERTER UNIT - ISOLITE, IMI-12-LC-V1 FURNISHED BY OWNER INSTALLED BY GC
L90 EL	DECORATIVE LED WALL SCONCE	4	HINKLEY LIGHTING, ATLANTIS; BLACK; 1649SK-LED AT ENTRY DOORS. REFER ELEVATIONS FOR HEIGHT FURNISHED BY OWNER, INSTALLED BY GC
L91	DECORATIVE LED WALL SCONCE	0	HINKLEY LIGHTING, SILO; BRONZE; 13594AZ-LL; LED ALONG REAR EIFS BAND FURNISHED BY OWNER, INSTALLED BY GC
L92	WALL MOUNTED OVER SERVICE DOOR FIXTURE	0	LITHONIA LIGHTING WPX1 LED P2 40K MVOLT DDBXD M4 OVER DRIVE THRU AREA SERVICE DOOR FURNISHED BY OWNER, INSTALLED BY GC
L97	LED MOTION SECURITY FLOODLIGHT	3	LITHONIA LIGHTING HGX LED 2RH 40K 120 MO DDB M2 INTERIOR LIGHT SENSOR TO BE WALL MOUNTED AT +142" FURNISHED BY OWNER, INSTALLED BY GC

CEILING SCHEDULE

INSTALLED AND FURNISHED BY, G.C. UNLESS NOTED OTHERWISE

NO	MANUFACTURER	DESCRIPTION	MATERIAL	FINISH
C1	ARMSTRONG	2' X 2' SUSPENDED T-BAR GRID CEILING SYSTEM	OPTIMA 9/16" SQUARE TEGULAR ITEM # 3251	SUSPENSION SYSTEM: 9/16" SUPRAFINE; COLOR: BLIZZARD WHITE CONTACT: SHERRY BRUNT (1-800-442-4212)
C2	USG	2' X 4' SUSPENDED T-BAR GRID CEILING SYSTEM	"VINYL ROCK" VINYL CLAD GYP. BD PANELS	SMOOTH AND WASHABLE WHITE
C3	GOLD BOND	MONOLITHIC CEILING ON METAL FRAMING	5/8" GYP. BD.	SMOOTH PAINT - WHITE AND WASHABLE

SEE SHEET A-103 FOR PAINT SCHEDULE

FINISH SCHEDULE

ROOM NAME	FLOOR	BASE	WALL	CEILING
100 DINING ROOM	T200 24" X 24" TILE T402 INLAY	T111 TILE SIZE: REF. SCHEDULE T200 TILE SIZE: REF. SCHEDULE T124 FULL TILE	P101, P104 PAINT T111, T124 TILE G-1 WALL COVERING	C1 2' X 2' ARMSTRONG, OPTIMA C3 GYP BOARD W/ PAINT P103
101 SERVING AREA	S1 PLAIN S2 ABRASIVE IN HIGH TRAFFIC AREAS	S1 6" H CONT. (KITCHEN EQUIPMENT ON 6" NSF APPROVED LEGS)	T111 HAND SINK WALL TILE WP1 FRP PANEL	C3 GYP BOARD W/ SMOOTH WASHABLE PAINT
102 DRIVE-THRU STATION	S1 PLAIN S2 ABRASIVE IN HIGH TRAFFIC AREAS	S1 6" H CONT. (KITCHEN EQUIPMENT ON 6" NSF APPROVED LEGS)	WP1 FRP PANEL	C2 2' X 4' SUSPENDED GRID WASHABLE VINYL COATED GYP BOARD PANELS
103 KITCHEN	S1 PLAIN S2 ABRASIVE IN HIGH TRAFFIC AREAS	S1 6" H CONT. (KITCHEN EQUIPMENT ON 6" NSF APPROVED LEGS)	WP3 S.S. BEHIND COOK LINE WP1 FRP PANEL	C2 2' X 4' SUSPENDED GRID WASHABLE VINYL COATED GYP BOARD PANELS
104 KITCHEN PREP.	S1 PLAIN S2 ABRASIVE IN HIGH TRAFFIC AREAS	S1 6" H CONT. (KITCHEN EQUIPMENT ON 6" NSF APPROVED LEGS)	WP1 FRP PANEL	C2 2' X 4' SUSPENDED GRID WASHABLE VINYL COATED GYP BOARD PANELS
105 WALK-IN COOLER	S1 PLAIN S2 ABRASIVE IN HIGH TRAFFIC AREAS	S.S. / ALUMINUM WITH 3/4" RADIUS	EXT S.S. INT ALUMINUM GALVANIZED S.S.	ALUMINUM GALVANIZED STAINLESS STEEL
105A WALK-IN FREEZER	GALVANIZED STAINLESS STEEL S1 SILIKAL UNDER WIF SUBFLOOR	S.S. / ALUMINUM WITH 3/4" RADIUS	EXT S.S. INT ALUMINUM GALVANIZED S.S.	ALUMINUM GALVANIZED STAINLESS STEEL
106 MEN'S ROOM	T200 24" X 24" TILE	T108 FULL TILE SCHLUTER	T108 TILE	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT
107 WOMEN'S ROOM	T200 24" X 24" TILE	T108 FULL TILE SCHLUTER	T108 TILE	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT
108 VESTIBULE	T200 24" X 24" TILE	T124 FULL TILE	P104 PAINT T124 TILE	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT
109 NOT USED	-	-	-	-
110 EXTERIOR STORAGE	SEALED CONCRETE, SMOOTH FINISH	-	WP1 FRP PANEL	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT
111 NOT USED	-	-	-	-

DOOR & HARDWARE SCHEDULE

INSTALLED AND FURNISHED BY, G.C. UNLESS NOTED OTHERWISE

CONTRACTOR TO PURCHASE DOOR HARDWARE & FRAME DIRECTLY FROM PANDA'S NATIONAL ACCOUNT SUPPLIER. SUPPLIER TO PROVIDE ALL STOREFRONT DOOR HARDWARE, P-LAM DOORS & FRAMES AND HM DOORS & FRAMES

CONTACT FOR QUOTING, ORDERING & LOGISTICS
APRIL WALDREN, PROJECT MANAGER
800-887-4307 EXT. 350 PHONE
AprilW@locknet.com, panda@locknet.com

CONTACT FOR GENERAL ACCOUNT NEEDS
ANGIE HAINES, ACCOUNT MANAGER
800-887-4307 EXT. 145 PHONE / 859-509-4031 MOBILE
AngieH@locknet.com, panda@locknet.com

ADDITIONAL CONTACTS:
THOMAS DOWNS, SALES MANAGER; ThomasD@locknet.com; 800-887-4307 x116
EDDIE ANDUEZA, DIR. ARCH. DOOR & HRDWR SOL.; eddiea@locknet.com; 859-432-2289

NOTE!!!
CONTRACTOR HAS THE OPTION TO PURCHASE STOREFRONT HARDWARE FROM OTHER SOURCE, PROVIDED THE HARDWARE IS PER SPECS, NO SUBSTITUTIONS ALLOWED. STOREFRONT HARDWARE SPECS ARE PROVIDED IN THE PROJECT BID PACKAGE. COORDINATE WITH PANDA PROJECT MANAGER LISTED ON SHEET G-001

NO.	DOOR MATERIAL	SIZE	FRAME	FACE/EDGE	THK.	CORE	LITE	RATE	HARDWARE: PASSAGE	LATCHSET	ELEC. STRIKE IN ENTRY DEVICE	CYLINDER	S.F. PULL	S.F. PUSH	PANIC	HINGE: BUTT	CONT.PIANO	STOP: FLOOR	WALL	ACCESSORIES: THRESHOLD	LATCH GUARD	DETEX ALARM	SILENCERS	KICKPLATE	CLOSER	REMARKS
01	ALUMINUM STOREFRONT KAWNEER CURTAIN WALL SYSTEM	(2) 3'-6" X 7'-0"	ALUM.	BLACK ALUM.	1 3/4"	HOLLOW	GLASS	-		●				●	●		●		●						●	KAWNEER CURTAIN 1620 SYSTEM PULL ON EXTERIOR SIDE
02	ALUMINUM STOREFRONT KAWNEER CURTAIN WALL SYSTEM	3'-6" X 7'-0"	ALUM.	BLACK ALUM.	1 3/4"	HOLLOW	GLASS	-		●				●	●		●		●						●	KAWNEER CURTAIN 1620 SYSTEM PULL ON EXTERIOR SIDE
03	S.C. WOOD	3'-0" X 7'-0"	H. MTL	PLASTIC LAM. PRE-FINISHED	1 3/4"	SOLID	-	-				●					●		●				●	●	●	KICKPLATE ON EA. SIDE OF DOOR
04	NOT USED	-	-	-	-	-	-	-																		
05	HOLLOW METAL	3'-6" X 7'-0"	H. MTL	PAINTED	1 3/4"	INSUL.	-	-					●				●		●				●	●	●	KICKPLATE ON INT. SIDE OF DOOR
06	HOLLOW METAL	(3) 3'-0" X 7'-0"	H. MTL	PAINTED	1 3/4"	INSUL.	-	-		●							●		●				●			W/ LOUVERED VENT & BUG SCREEN
08	ALUMINUM STOREFRONT	3'-6" X 7'-0"	ALUM.	BLACK ALUM.	1 3/4"	HOLLOW	GLASS	-		●	●		●	●	●		●		●						●	OPAQUE BLACK-OUT SPANDREL GLAZING 1
09	NOT USED	-	-	-	-	-	-	-																		

WALL SCHEDULE

INSTALLED AND FURNISHED BY, G.C. UNLESS NOTED OTHERWISE

NO.	DESCRIPTION
W1	3-5/8" 20GA. METAL STUD WALL W/ 5/8" TYPE "X" GYP. BOARD BOTH SIDES (SEE ARCHITECTURAL DETAILS & ELEVATIONS)
W2	3-5/8" 20GA. METAL STUD WALL W/ 5/8" TYPE "X" GYP. BOARD ON ONE SIDE (SEE ARCHITECTURAL DETAILS & ELEVATIONS)
W3	(2) 3-5/8" 20GA. METAL STUD WALLS W/ 5/8" TYPE "X" GYP. BOARD BOTH SIDES (SEE ARCHITECTURAL DETAILS & ELEVATIONS)
W4	3-5/8" 20GA. METAL STUD LOW WALL W/ 5/8" TYPE "X" GYP. BD BOTH SIDES. PROVIDE 3 1/2" KNEE-WALL BRACE/POST @ CORNERS AND @ 48" O.C.
W5	6" 20GA. METAL STUD WALL W/ 5/8" TYPE "X" GYP. BOARD BOTH SIDES (SEE ARCHITECTURAL DETAILS & ELEVATIONS)
W6	6" 20GA. METAL STUD WALL W/ 5/8" TYPE "X" GYP. BOARD ONE SIDE (SEE ARCHITECTURAL DETAILS & ELEVATIONS)
W7	3-5/8" 20GA. METAL STUD LOW WALL W/ 5/8" TYPE "X" GYP. BOARD BOTH SIDES. PROVIDE 3 1/2" KNEE-WALL BRACE/POST @ CORNERS AND @ 48" O.C
W8	1 1/2" 20GA. HAT CHANNEL FURRING W/ 5/8" TYPE "X" GYP. BOARD ON ONE SIDE. REFER DETAILS FOR FURRING DISTANCE
W9	2 1/2" 20GA. METAL STUD FURRING W/ 5/8" TYPE "X" GYP. BOARD ON ONE SIDE

WALL PANEL SCHEDULE

INSTALLED AND FURNISHED BY, G.C. UNLESS NOTED OTHERWISE

NO	MANUFACTURER	DESCRIPTION	MFG #	COLOR FINISH	REMARK
WP1	CRANE COMPOSITES INC.	F.R.P. THICKNESS: .075	LBCS.14	#636 (GRAY), SM/SM	CONTACT: LAUREN ARMSTRONG 815.467.8684
WP2	-	S.S. PANEL (22 GA)	-	BRUSHED FINISH	FURNISHED BY PX, INSTALLED BY G.C.
WP3	-	S.S. PANEL (22 GA)	-	DIAMOND PATTERN FINISH	FURNISHED BY PX, INSTALLED BY G.C.
W101	NOT USED	-	-	-	-
W103	NOT USED	-	-	-	-
W104	NOT USED	-	-	- 1	-
W106	WOLF GORDON	WALLCOVERING	-	GOLD LANTERN & CLOUD	CONTACT: CINDY GALLAGHER 718.391.5478 cindy.gallagher@wolfgordon.com
W107	WOLF GORDON	WALLCOVERING	-	FRETWORK	
W108	-	CANOPY GRAPHIC	-	-	
G-4b	-	MENU BACKER PANEL	TBD	TBD	
SORT-V7		WALL MURAL	TBD	TBD	

SPECIAL SURFACE SCHEDULE

INSTALLED AND FURNISHED BY, G.C. UNLESS NOTED OTHERWISE

NO	MANUFACTURER	PRODUCT	MFG #	STAIN / COLOR	FINIISH	REMARK
QZ-6	DALTILE	ARTIFICIAL QUARTZ	-	BROADWAY BLACK	POLISHED	SERVICE COUNTER & DRINK STATION PROVIDED BY PX, INSTALLED BY G.C.

INTERIOR PAINT SCHEDULE

INSTALLED AND FURNISHED BY, G.C. UNLESS NOTED OTHERWISE

NO	MANUFACTURER	MFG #	COLOR	FINISH	REMARK
P9A	SHERWIN-WILLIAMS	SW 7065	ARGOS	PROMAR 200, ZERO VOC, LATEX SEMI-GLOSS	REAR SERVICE DOOR
P101	SHERWIN-WILLIAMS	SW 6252	ICE CUBE	PROMAR 200, ZERO VOC, LATEX EGG-SHELL	RESTROOM & RESTROOM VESTIBULE CEILING, DINING ROOM SOFFIT
P102	NOT USED				
P103	NOT USED				
P104	SHERWIN-WILLIAMS	SW 2850	CHELSEA GRAY	PROMAR 200, ZERO VOC, LATEX EGG-SHELL	DINING RM. WALLS, RESTROOM VESTIBULE WALLS
P105	NOT USED				
P106	SHERWIN-WILLIAMS	SW 7069	IRON ORE	DTM ACRYLIC GLOSS, LOW VOC	RESTROOM DOOR FRAMES
P205	SHERWIN-WILLIAMS	SW 7069	IRON ORE	PROMAR 200, ZERO VOC, LATEX EGG-SHELL	FRONT & UNDERSIDE OF SERVICE LINE & BACK OF SERVICE LINE SOFFIT

ISSUE FOR BID 01-30-2023

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

1	OWNER REVISIONS	01-30-23

ISSUE DATE:

ISSUE FOR PERMIT	10-20-22
ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

idGROUP

CARRY D. MCLAIN
REGISTERED ARCHITECT
AGRICULTURE CT
NO. 106107
STATE OF TENNESSEE

10-20-22

PANDA EXPRESS

PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

G-005

SCHEDULES

ISSUE FOR BID 01-30-2023

PANDA HOME 2600 R4

CIVIL CONSTRUCTION PLANS
FOR

PANDA EXPRESS
955 N. RIVERSIDE DRIVE
CLARKSVILLE, TN. 37040
PART OF TAX MAP 550-B, PARCEL 00500

PROJECT CONTACTS

DEVELOPER:
PANDA EXPRESS INC.
1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770

SURVEYOR:
CROWE-WHEELER AND ASSOCIATES
2865 HALFWAY-HALIFAX RD
SCOTTSVILLE, KY 42164
270-393-8500

ENGINEERING DEPARTMENT:
MR. JOSEPH GREEN
SENIOR ENGINEER
329 MAIN STREET
CLARKSVILLE, TN 37040
931-645-7464
joseph.green@cityofclarksville.com

STORMWATER MANAGEMENT:
MR. JOSEPH GREEN, P.E.
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119 10TH STREET
CLARKSVILLE, TN 37040
Joseph.green@cityofclarksville.com

SANITARY SEWER DEPARTMENT:
MR. BEN BROWDER, ENGINEERING SUPPORT COORDINATOR
CLARKSVILLE GAS & WATER CONSTRUCTION
2215 MADISON STREET
CLARKSVILLE, TN 37043
931-645-7400 EXT. 1316

WATER DEPARTMENT/AGENCY
MR. BEN BROWDER, ENGINEERING SUPPORT COORDINATOR
CLARKSVILLE GAS & WATER CONSTRUCTION
2215 MADISON STREET
CLARKSVILLE, TN 37043
931-645-7400 EXT. 1316

LANDSCAPE ARCHITECT:
KEVIN REFF, RLA
KITA SUSTAINABLE DESIGNS, LLC
2101 MASTERS DRIVE
SPRINGFIELD, TN 37172
PHONE: (615) 469-1222
EMAIL: kreff@kitadesign.biz

BUILDING DEPARTMENT
MR. MAT SMILEY
BUILDING INSPECTOR
329 MAIN STREET
CLARKSVILLE, TN 37040
931-645-7426 EXT. 6680
mat.smiley@cityofclarksville.com

OWNER:
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SUPREME FOODS
VP, DEVELOPMENT
615-969-0054
randy.perry@supremefoods.com

GAS COMPANY
MR. DANIEL COOK
CLARKSVILLE GAS AND WATER 2215 MADISON STREET
CLARKSVILLE, TN 37043
931-645-7422 EXT. 1508 OR 931-645-7400
danny.cook@cityofclarksville.com

ELECTRIC:
MR. CHRIS MORRIS CLARKSVILLE DEPARTMENT OF ELECTRICITY, (CDE)
OPERATIONS & ENGINEERING
2021 WILMA RUDOLPH BLVD.
CLARKSVILLE, TN 37040
931-648-8151
931-553-7328
CELL# 931-241-2830
chris.morris@cdelightband.com

PLANNING AND ZONING AGENCY:
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REGIONAL PLANNING COMMISSION
329 MAIN STREET
CLARKSVILLE, TN 37040
931-645-7448
ruthrussell@cityofclarksville.com

FIRE DEPARTMENT
MR. RICKY CUMBERLAND
FIRE PREVENTION
821 FRANKLIN STREET
CLARKSVILLE TN 37040
931-645-7462

COMMUNICATIONS/DATA PROVIDER
MR. GEORGE BENJAMIN,
2021 WILMA RUDOLPH BLVD.
CLARKSVILLE, TN 37040
931-801-7161
George.benjamin@cdelighband.com

ENVIRONMENTAL HEALTH DEPARTMENT
MR. ALEXANDER COLEMAN EXT. 5
MONTGOMERY COUNTY HEALTH DEPT
330 PAGEANT LANE
CLARKSVILLE, TN 37040
931-648-5747 EXT 5
alexander.coleman@tn.gov
FOOD & GENERAL SANITATION
931-648-5747

GENERAL NOTES

THIS SITE HAS BEEN DESIGNED TO MEET CITY OF CLARKSVILLE, TENNESSEE STANDARDS AND THE APPROVAL OF THE PLANNING COMMISSION. CHANGES SHALL NOT BE MADE TO THE APPROVED SITE PLAN UNLESS APPROVED BY EITHER THE RELEVANT DEPARTMENT SUPERINTENDENT OR THE PLANNING COMMISSION

THE OWNER AND ENGINEER DO NOT ASSUME RESPONSIBILITY FOR THE POSSIBILITY THAT, DURING CONSTRUCTION, UTILITIES OTHER THAN THOSE SHOWN MAY BE ENCOUNTERED OR THAT ACTUAL LOCATION OF THOSE SHOWN MAY BE DIFFERENT FROM LOCATIONS DESIGNATED ON THE CONTRACT DRAWINGS. IN AREAS WHERE IT IS NECESSARY THAT EXACT LOCATIONS BE KNOWN OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL AT HIS OWN EXPENSE, FURNISH ALL LABOR AND TOOLS TO EITHER VERIFY AND SUBSTANTIATE OR DEFINITELY ESTABLISH THE POSITION OF UNDERGROUND UTILITY LINES.

BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY OTHERS. CIVIL ENGINEERING SERVICES AND THEIR CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF THE THIS INFORMATION SHOWN.

Civil Engineering Services
7705 Spicer Farm Lane
Fairview, Tennessee
37062
phone: (615) 533-0401
fax: (615) 523-8865
e-mail: ray@civilengineeringservices.net
Engineering, Land Planning, and Environmental

PREPARED FOR:
PANDA EXPRESS INC.
1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770

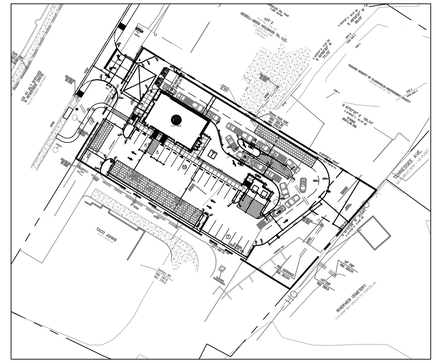
LIST OF DESIGN MANUALS

- CITY OF CLARKSVILLE, TN. CODES
- MUTCD
- Clarksville Storm Water Management Manual, Volumes 1-3, September 2021.
- USDA NRCS Technical Release 55, Urban Hydrology for Small Watersheds (TR-55), June 1986.
- Tennessee Erosion & Sediment Control Handbook, Fourth Edition, August 2012.

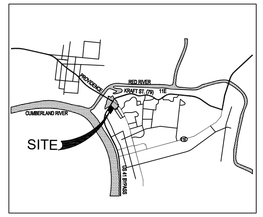
SEE CFT NV DEVELOPMENTS, LLC REAL PROPERTY PURCHASE AND SALE AGREEMENT AND JOINT ESCROW INSTRUCTIONS, EXHIBIT "D" TO REAL PROPERTY PURCHASE AGREEMENT FOR SELLERS WORK SCOPE ON SHEET C01.1

SHEET INDEX

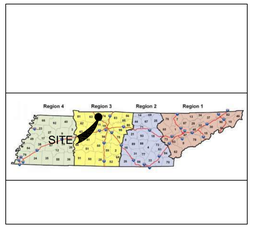
NO.	TITLE	ISSUE 01 (PERMIT/BID) 09/13/2022					
C01.0	CIVIL COVER SHEET	●					
C01.1	GENERAL NOTES	●					
1 OF 2	ALTA/ACSM SURVEY (BY OTHERS)	●					
2 OF 2	ALTA/ACSM SURVEY (BY OTHERS)	●					
C02.1	DEMOLITION PLAN	●					
C03.0	SITE PLAN	●					
C03.1	HARDSCAPE DETAILS I	●					
C03.2	HARDSCAPE DETAILS II	●					
C03.3	HARDSCAPE DETAILS 3	●					
C04.0	UTILITY PLAN	●					
C04.1	UTILITY DETAILS	●					
C05.0	GRADING PLAN	●					
C05.1	DRAINAGE PLAN	●					
C05.2	GRADING DETAILS	●					
C06.0	INITIAL EROSION CONTROL PLAN	●					
C06.1	FINAL EROSION CONTROL PLAN	●					
C06.2	EROSION CONTROL DETAILS	●					
C07.0	TRUCK TURN PLAN	●					
L01.0	LANDSCAPE PLAN	●					
L01.1	LANDSCAPE PLAN	●					



SITE MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



REGIONAL MAP
NOT TO SCALE

SITE DATA TABLE

- **ZONING:**
  C2 GENERAL COMMERCIAL DISTRICT
- **REQUIRED BUILDING SETBACKS:**
  FRONT (W)= 20'
  REAR (E) = 25'
  SIDE (N) = N/A
  SIDE (S) = N/A
- **SITE ACREAGE:**
  46,099 SF / 1.06 AC
- **FLOOR AREA RATIO:**
  PANDA EXPRESS = 2,698 SF BLDG / SITE AREA 46,099= 5.85%
- LIMITS OF DISTURBANCE = 51,861 SF / 1.19 AC
- **PROPOSED SITE IMPERVIOUS SURFACE RATIO**
  TOTAL SITE = 46,099 SF
  PAVEMENT/SIDEWALKS = 29,591 SF
  BUILDING = 2,698 SF
  TOTAL IMPERVIOUS = 32,289 SF
  TOTAL PERVIOUS = 13,810 SF
  PERCENT IMPERVIOUS = 70.04%
- **PARKING**
  RESTAURANT: 10/1000 SF
  PANDA EXPRESS - 2,661 SF = 27 SPACES
  TOTAL NON-ADA PARKING: 34
  TOTAL ADA PARKING: 2
  TOTAL PARKING PROVIDED: 34
- **REQUIRED PARKING SETBACKS:**
  FRONT (W)= 0'
  REAR (E) = 0'
  SIDE (N) = 0'
  SIDE (S) = 0'
- **FLOOD HAZARD:**
  F.I.R.M. MAP NO. #47125C0236E
- **FLOOD STATEMENT:**
  BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS IN ZONE(S) X, FLOOD ZONE X AND ZONE AE OF THE FLOOD INSURANCE RATE MAP NUMBER 47125C0236E WHICH BEARS AN EFFECTIVE DATE OF 01/15/2021 AND IS IN A SPECIAL FLOOD HAZARD AREA. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE AND A FLOOD ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION OR APPLY FOR A VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

PANDA EXPRESS DM
CHRIS POPE
480-221-6969
E-MAIL: chris.pope@PandaRG.com

PANDA EXPRESS REM:
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615-417-3444
E-MAIL: Dave.Rittenberry@PandaRG.com

PANDA EXPRESS PM:
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612-819-7673
E-MAIL: Mark.Schultz@PandaRG.com

ISSUE FOR PERMIT 09-13-2022

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REVISIONS:

ISSUE DATE:

1	PERMIT/BID	09-13-2022
1	CONSTRUCTION	01-30-2023

PANDA PROJECT #: D23503

Civil Engineering Services
Engineering, Land Planning, and Environmental
7705 Spicer Farm Lane
Fairview, Tennessee
37062
Phone: (615) 533-0401
e-mail: ray@civilengineeringservices.net

RAY G. FLAKE
REGISTERED PROFESSIONAL ENGINEER
AGRICULTURE & BIOSYSTEMS ENGINEER
106855
STATE OF TENNESSEE
01/30/2023

PANDA EXPRESS

955 N. RIVERSIDE DRIVE
CLARKSVILLE, TN. 37040

TRUE WARM & WELCOME 2600-2022

COVER SHEET

C01.0

PANDA HOME 2600 R4

ISSUE FOR PERMIT 09-13-2022

UTILITY NOTES

1. ALL SEWER, ELECTRIC, AND TELEPHONE SERVICE LINES AND EXTENSIONS ARE TO BE CONSTRUCTED TO THE RESPECTIVE UTILITY COMPANY SPECIFICATIONS. UTILITY DISCONNECTION'S TO BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY.

2. THE GENERAL CONTRACTOR IS PARTICULARLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES SHOWN HEREON IS BASED ON UTILITY COMPANY RECORDS, AND WHERE POSSIBLE, FILLED MEASUREMENTS. THE CONTRACTOR SHALL NOT RELY UPON THIS INFORMATION HAS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS PRIOR TO THE EXCAVATION AND REQUEST FIELD VERIFICATION OF UTILITY LOCATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE EXISTING UTILITIES CONFLICTING WITH IMPROVEMENTS SHOWN HEREON IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.

3. BEFORE INSTALLATION OF WATER LINES, STORM SEWERS OR SANITARY SEWERS, THE CONTRACTOR SHOW EXCAVATE AND VERIFY ALL CROSSINGS AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT HE IS NOT NOTIFIED OF DESIGN CONFLICTS PRIOR TO CONSTRUCTION.

4. ALL SEWER CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LOCAL SERVICE PROVIDER SEWER SPECIFICATIONS AND DETAILS (LATEST REVISIONS).

5. ALL SEWER SERVICE LINES, SHALL BE TESTED BY THE CONTRACTOR. THE TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE LOCAL SERVICE PROVIDER REPRESENTATIVE.

6. THE CONTRACTOR SHALL PAY ANY APPLICABLE WATER AND SEWERAGE SERVICES INSPECTION FEES.

7. THE CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN, REPAIR ANY DAMAGE, ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTORS EXPENSE, AND COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES SO THAT WATER LINES AND GAS LINES DO NOT CONFLICT WITH SANITARY SEWERS, SANITARY SEWER SERVICES OR STORM SEWERS.

9. WATER SERVICE PIPE SHALL BE POLYETHYLENE (PE), DR9. LOCATION AND SIZE OF WATER SERVICE SHALL BE SHOWN ON THE UTILITY PLAN, IN COORDINATION WITH REPRESENTATIVES OF THE LOCAL WATER AUTHORITY.

10. SEWER SERVICE SHALL BE 6" DIAMETER NON-PRESSURE POLYVINYL CHLORIDE PIPE (PVC) CONFORMING TO ASTM D 3034, SDR 26, WITH PUSH-ON RUBBER GASKETS. INSTALL IN THE LOCATIONS SHOWN HERE ON.

11. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN THE USE OF EQUIPMENT IN AND AROUND OVERHEAD AND UNDERGROUND ELECTRICAL WIRES AND SERVICES. IF AT ANY TIME IN THE PURSUIT OF THIS WORK THE CONTRACTOR MUST WORK IN THE CLOSE PROXIMITY OF THE ABOVE NOTED WIRES, THE ELECTRIC COMPANY SHALL BE CONTACTED PRIOR TO SUCH WORK AND THE PROPER SAFETY MEASURES TAKEN. A THOROUGH EXAMINATION OF THE OVERHEAD AND UNDERGROUND WIRES IN THE PROJECT AREA SHOULD BE MADE BY THE CONTRACTOR PRIOR TO THE INITIATION OF CONSTRUCTION.

12. THE OWNER AND ENGINEER DO NOT ASSUME RESPONSIBILITY FOR THE POSSIBILITY THAT, DURING CONSTRUCTION, UTILITIES OTHER THAN THOSE SHOWN MAY BE ENCOUNTERED OR THAT ACTUAL LOCATIONS OF THOSE SHOWN MAY BE DIFFERENT FROM LOCATIONS DESIGNATED ON THE CONTRACT DRAWINGS. IN AREAS WHERE IT IS NECESSARY THAT EXACT LOCATIONS BE KNOWN OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, FURNISH ALL LABOR AND TOOLS NECESSARY TO EITHER VERIFY AND SUBSTANTIATE OR DEFINITELY ESTABLISH THE POSITION OF UNDERGROUND UTILITY LINES.

13. THE DEVELOPER IS TO SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE CONTRACTOR, THE DEVELOPERS ENGINEER, THE CITIES REPRESENTATIVE AND THE CITIES ENGINEER.

14. DO NOT SCALE THIS DRAWING AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION.

15. REMOVE ALL FOUNDATIONS, UNDERGROUND TANKS, PAVING, BASE ETC. IF REMAINING, BEFORE BEGINNING CONSTRUCTION.

16. FILL ALL PLANTERS/ISLANDS TO TOP OF CONCRETE CURB WITH TOPSOIL. TOPSOIL TO BE CLEAN AND FREE OF DEBRIS, ETC.

17. THESE PLANS, PREPARED BY CIVIL ENGINEERING SERVICES, DID NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE CIVIL ENGINEERING SERVICES REGISTERED PROFESSIONAL ENGINEER HERE ON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.

18. IN THE CASE OF CONFLICT BETWEEN THIS DRAWING AND ANY OTHER DRAWING AND/OR THE SPECIFICATIONS. THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR CLARIFICATION.

19. ANY AND ALL FEES, LICENSES AND PERMITS NECESSARY FOR THIS CONSTRUCTION ARE TO BE OBTAINED PRIOR TO THE INITIATION OF CONSTRUCTION AND THE COST OF SAME TO BE BORNE BY THE CONTRACTOR.

20. FOR WATER SERVICE ALL CORPORATION STOPS SHALL CONFORM TO LOCAL SERVICE PROVIDER SPECS.

21. FITTINGS SHALL BE BRASS, CAST AND MACHINED IN ACCORDANCE WITH AWWA C800 AND AWWA C901, WITH COMPATIBLE PIPE CONNECTIONS.

22. SERVICE SADDLES AND ANCHORS SHALL CONFORM TO ALL SERVICE PROVIDER SPECIFICATIONS.

23. ALL SEWER SERVICE FITTINGS AND ACCESSORIES SHALL BE MANUFACTURED OR SUPPLIED BY THE PIPE MANUFACTURER OR PRIOR-APPROVED EQUAL.

24. BEDDING AND INITIAL BACKFILL OVER SEWER MAINS AND SERVICES SHALL CONFORM TO THE GEOTECHNICAL REPORT RECOMMENDATIONS OR LOCAL SERVICE PROVIDER RECOMMENDATION WHICH EVER IS MORE STRICT.

25. ALL UTILITY SERVICES IN EXISTING ROADS SHALL BE INSTALLED BY BORING. ALL TRENCHES IN EXISTING PARKING LOTS SHALL UTILIZE A CLEAN SAW CUT AND SHALL BE BACKFILLED (100 %) TO FINAL SUBGRADE WITH #57 STONE. REPAIR ROADS PER CITY REQUIREMENTS.

26. ALL SANITARY SEWER OUTSIDE OF BUILDING MUST BE SCHEDULE 40 PVC

27. ELLIPTICAL RCP SHALL CONFORM TO ASTM C 507 (CLASS III) AND AASHTO M 207 STANDARD SPECIFICATIONS.

UTILITY NOTES CONTINUED

28. REINFORCED CONCRETE PIPE (RCP): O-RING SHALL CONFORM TO ASTM C 76 (CLASS III, UNLESS OTHERWISE SPECIFIED) AND AASHTO M 170 STANDARD SPECIFICATIONS, AND ASTM C 443 STANDARD SPECIFICATIONS FOR JOINTS FOR RCP USING RUBBER GASKETS.

29. ELLIPTICAL RCP SHALL CONFORM TO ASTM C 507 (CLASS III) AND AASHTO M 207 STANDARD SPECIFICATIONS.

30. HDPE PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M 25 (3"-10"), M 294 (12" AND LARGER), TYPE S (CORRUGATED OUTSIDE - SMOOTH INSIDE, 4" - 60"), AND MP 7 (60" TYPE S).

31. BELL/SPIGOT GASKET FOR HDPE PIPE SHALL BE SOIL/SILT TIGHT PER AASHTO SECTION 26 WITH RUBBER GASKET MEETING ASTM F 477.

32. PVC STORM SEWER PIPE (12" OF LESS) AND FITTINGS SHALL BE NON-PRESSURE PVC CONFORMING TO ASTM D 3034, SDR 26, WITH PUSH-ON RUBBER GASKET JOINTS.

33. REPAIR ALL DAMAGE TO EXISTING FEATURES(I.E. DRIVES, ROADS, YARDS, LANDSCAPING, ETC.) TO PRECONSTRUCTION CONDITION.

34. COORDINATE THE EXACT LOCATION OF ALL UTILITIES ENTERING THE BUILDING WITH THE PLUMBING PLANS PROVIDED BY OTHERS.

35. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE MANUAL OF ACCIDENT PREVENTION AND CONSTRUCTION ISSUED BY AGC OF AMERICA.

36. SOME UTILITIES CAN BE LOCATED BY CALLING THE TENNESSEE ONE CALL. THE CONTRACTOR SHALL CALL "811", PRIOR TO PROCEEDING WITH ANY EXCAVATION.

37. REPAIR EXISTING PAVEMENT, CURBS, WALKS, LANDSCAPING, ETC. THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES TO A LIKE NEW CONDITION AT NO ADDITIONAL COST TO THE OWNER.

38. THE PROPOSED GAS LINE CONSTRUCTION AND INSTALLATION SHALL BE COORDINATED WITH THE LOCAL GAS COMPANY BY THE CONTRACTOR.

39. THE PROPOSED ELECTRIC LINE CONSTRUCTION AND INSTALLATION SHALL BE COORDINATED WITH THE LOCAL ELECTRIC COMPANY BY THE CONTRACTOR.

40. THE PROPOSED TELEPHONE LINE CONSTRUCTION AND INSTALLATION SHALL BE COORDINATED WITH THE LOCAL TELEPHONE COMPANY BY THE CONTRACTOR.

41. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.

42. PRIOR TO SUBMITTING HIS BID. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATION'S AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED AROUND UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTORS OPERATIONS.

43. FIRE HYDRANT ASSEMBLIES (IF REQUIRED ON THESE PLANS) INCLUDE THE APPROPRIATE SIZED TEE (WITH KICKER), 6" LINE TO HYDRANT, 6" GATE VALVE (WITH VALVE BOX), AND FIRE HYDRANT (WITH KICKER). HYDRANT SHALL BE INSTALLED AT LOCATION SHOWN ON THE PLANS.

44. BACKFLOW PREVENTION DEVICE FOR THE DOMESTIC WATER SERVICE SHALL BE LOCATED INSIDE THE BUILDING UNLESS OTHERWISE SPECIFIED IN THESE PLANS. COORDINATE WITH LOCAL SERVICE PROVIDER.

45. MAINTAIN 18" MINIMUM VERTICAL CLEARANCE AT UTILITY CROSSING.

GRADING & DRAINAGE NOTES

1. SEE LANDSCAPE PLAN FOR REQUIRED TREES AND GROUND COVER.

2. SLOPE OF SURFACE GRADE SHALL BE A MINIMUM OF 1.00%

3. MAXIMUM CUT OF FILL SLOPES IS 2H:1V.

4. THE CONTRACTOR SHALL PROVIDE CLEAN, SUITABLE MATERIAL FOR REQUIRED FILL. SHOULD A SUFFICIENT QUANTITY OF SUITABLE MATERIAL NOT BE AVAILABLE FROM THE REQUIRED EXCAVATION ON THE SITE.

5. ALL FILL SHOULD BE PLACED PER THE GEOTECHNICAL REPORT. COMPACTION MUST BE CERTIFIED BY A REGISTERED PROFESSIONAL SOILS ENGINEER IN THE STATE THE PROJECT IS LOCATED PRIOR TO THE INSTALLATION OF PAVEMENTS, CURBS, SIDEWALKS OR FOOTINGS OF ANY TYPE.

6. DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE FULLY CONSTRUCTED AND OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

7. LENGTH OF RIP-RAP PADS AT PIPE OUTLET STRUCTURES TO BE A MINIMUM LENGTH OF (6) SIX TIMES THE DIAMETER OF THE PIPE.

8. JURISDICTIONAL LAND DISTURBANCE PERMIT MUST BE DISPLAYED ON SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW FROM A PUBLIC ROAD OR STREET.

DEMOLITION NOTES

1. PRIOR TO COMMENCEMENT OF DEMOLITION THE CONTRACTOR WILL COORDINATE HIS ACTIVITIES WITH ALL THE UTILITY COMPANIES SERVING THIS AREA. CONTRACTOR IS TO COORDINATE FULLY WITH UTILITY COMPANIES ON EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION.

2. THE CONTRACTOR IS TO COMPLETELY REMOVE AND DISPOSE OF ALL STRUCTURES AND BUILDINGS THAT ARE SO INDICATED INCLUDING FOUNDATIONS, TIMBER AND BRUSH, EXCEPT AS OTHERWISE INDICATED; STUMPS AND ROOTS; EXISTING PAVEMENT; OTHER STRUCTURES AS SHOWN OR REASONABLY IMPLIED IN THE DRAWINGS.

3. EXCEPT IN AREAS WHERE EXISTING TREES SHALL BE PRESERVED, A MINIMUM DEPTH OF REMOVAL SHALL BE (2) FOOT BELOW SUBGRADE. IN ROADWAY AREAS AND TO ORIGINAL SOILS ELSEWHERE. WHERE EXISTING BUILDINGS ARE TO BE DEMOLISHED, ALL TRACES OF FOUNDATIONS AND UNDERGROUND UTILITIES ARE TO BE REMOVED (UNLESS OTHERWISE NOTED ON PLANS). THE CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF ALL WASTER MATERIAL.

4. WHERE PAVING OR STRUCTURES ARE TO BE REMOVED WHICH ABUT OR ARE A PART OF CONNECTED FACILITIES (THAT ARE OFF-SITE), RESTORATION OF ANY DAMAGE THAT MIGHT RESULT FROM DEMOLITION IS TO BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.

5. THE LOCATION OF ALL EXISTING UTILITIES, STORM DRAINAGE AND TREES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM AVAILABLE INFORMATION AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE OWNER OR ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY. PRIOR TO THE START OF DEMOLITION THE CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE EXISTENCE & LOCATION OF ALL STRUCTURES, UTILITIES & TREES SHOWN OR NOT SHOWN ON THE PLANS, WHICH WOULD NEED TO BE REMOVED OR PRESERVED.

6. THE CONTRACTOR IS TO COORDINATE THE RELOCATION OR REMOVAL OF ALL OVERHEAD/UNDERGROUND UTILITIES, UTILITY POLES, LIGHTS AND LINES IN THE RIGHT-OF-WAY AND ON THE PROPERTY WITH THE APPROPRIATE PROVIDER.

7. THE CONTRACTOR SHALL REFERENCE AND RESTORE PROPERTY CORNERS AND LAND MARKERS DISTURBED DURING CONSTRUCTION. (UNDER THE DIRECTION OF A REGISTERED LAND SURVEYOR IN THE STATE OF THE PROJECT SITE)

8. REMOVE AND DISCARD ALL EXISTING ASPHALT PAVEMENT AND BASE MATERIAL AT LEAST 6" BELOW ASPHALT WITHIN THE LIMITS SHOWN. EXISTING SUBBASE MATERIAL MAY BE REUSED PROVIDED IT IS STABILIZED AND COMPACTED PER THE TYPICAL PAVEMENT DETAIL.

9. PRIOR TO COMMENCEMENT OF DEMOLITION, CONTRACTOR SHALL OBTAIN ANY DEMOLITION PERMITS REQUIRED.

EROSION CONTROL NOTES

1. SEDIMENT BARRIERS AND CONSTRUCTION ENTRANCE SHALL BE PLACED AS INDICATED ON THE PLAN PRIOR TO ANY GRADING WORK.

2. DUST CONTROL ON SITE SHALL BE KEPT WITHIN ACCEPTABLE LIMITS BY SPRINKLING WITH WATER OR OTHER ACCEPTABLE METHODS.

3. MAXIMUM SLOPES SHALL NOT EXCEED 3:1. CUT AND FILL SLOPES 3:1 SHALL BE STABILIZED BY EROSION CONTROL FABRIC, HYDROSEEDING, SOD, OR OTHER ACCEPTABLE METHODS.

4. ADDITIONAL EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY BEFORE GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTORS RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

5. THE LOCATIONS OF EROSION CONTROL DEVICES SHALL BE ADJUSTED AS CONSTRUCTION PROGRESSES TO MAINTAIN A FUNCTIONAL EROSION CONTROL SYSTEM.

6. ANY FAILURE OF ANY EROSION CONTROL DEVICE TO FUNCTION AS INTENDED FOR ANY REASON SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

7. EROSION CONTROL DEVICES SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND AT LEAST DAILY DURING PROLONGED PERIODS OF CONTINUOUS RAINFALL.

8. EROSION CONTROL DEVICES SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A FUNCTIONAL EROSION CONTROL SYSTEM.

9. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED AND THEN REMOVED SO THAT DRAINAGE OF THE SITE IS NOT IMPEDED.

10. ANY CUT OR FILL SLOPES 3:1 OR GREATER SHALL BE STABILIZED WITHIN 7 DAYS OF COMPLETING WORK ON THE SLOPES.

11. CLEAN SILT BARRIERS WHEN THEY ARE APPROXIMATELY 50 % OBSTRUCTED BY SEDIMENT OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. SILT BARRIERS SHALL BE REPLACED AS EFFECTIVENESS IS SIGNIFICANTLY REDUCED.

12. TOPSOIL SHALL BE RE-SPREAD A MINIMUM DEPTH OF 6" OVER ALL DISTURBED AREAS.

13. AREAS THAT HAVE BEEN STRIPPED, CUT SLOPES, FILL SLOPES OR AREAS OTHER WISE DISTURBED SHALL HAVE PERMANENT STABILIZATION APPLIED (GRASS, SOD, ETC.). PERMANENT STABILIZATION SHALL BE PLACED PRIOR TO ACCEPTANCE OF FINAL GRADING.

14. REMOVE SEDIMENT FROM ALL DRAINAGE STRUCTURES PRIOR TO ACCEPTANCE BY THE OWNER.

GENERAL NOTES

1. THE CONTRACTOR(S) SHALL REMOVE ALL OBSTRUCTIONS, BOTH ABOVE AND BELOW GROUND, AS REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THIS SHALL INCLUDE CLEARING AND GRUBBING WHICH CONSISTS OF CLEARING THE GROUND SURFACE OF ALL TREES, STUMPS, BRUSH, UNDERGROWTH, HEDGES, HEAVY GROWTH OF GRASS OR WEEDS, FENCES, STRUCTURES, DEBRIS, RUBBISH, AND SUCH MATERIAL WHICH, IN THE OPINION OF THE ENGINEER, IS UNSUITABLE FOR THE FOUNDATION OF PAVEMENTS.

2. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL THE DRAINAGE IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.

3. ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES ARE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS OF ALL JURISDICTIONAL BODIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVISES AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA.

4. EXISTING A. C. PAVEMENT SHALL BE CUT TO A NEAT STRAIGHT LINE PARALLEL OR PERPENDICULAR TO THE STREET CENTERLINE AND THE EXPOSED EDGE SHALL BE CUT TO A NEAT STRAIGHT LINE PARALLEL OR PERPENDICULAR TO THE STREET CENTERLINE AND THE EDGE COATED WITH TAR AS REQUIRED BY THE CITY STREETS DEPARTMENT.

5. ALL MATERIALS FURNISHED ON OR FOR THE PROJECT MUST MEET THE MINIMUM REQUIREMENTS OF THE APPROVING AGENCIES OR AS SET FORTH HEREIN, WHICHEVER IS MORE RESTRICTIVE.

6. CONTRACTORS MUST FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THE REQUIREMENTS OF ITEM #5 AT THE REQUEST OF THE AGENCY AND/OR THE ENGINEER.

7. ALL COSTS OF RETESTING FOR PREVIOUSLY FAILED TESTS SHALL BE BACK CHARGED TO THE CONTRACTOR BY THE OWNER.

8. ALL COSTS TO THE CONTRACTOR INCURRED IN CORRECTING DEFICIENT WORK SHALL BE TO THE CONTRACTORS ACCOUNT. FAILURE TO CORRECT SUCH WORK WILL BE CAUSE FOR A STOP WORK ORDER AND POSSIBLE TERMINATION.

9. THE GENERAL CONTRACTOR IS PARTICULARLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES SHOWN HEREON IS BASED ON UTILITY COMPANY RECORDS, AND WHERE POSSIBLE, FIELD MEASUREMENTS. THE CONTRACTOR SHALL NOT RELY UPON THIS INFORMATION AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OF UTILITY LOCATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE EXISTING UTILITIES CONFLICTING WITH IMPROVEMENTS SHOWN HEREON IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS GOVERNING SUCH PREPARATIONS

10. ALL MATERIAL PLACED AS FILL OR BACKFILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE PER THE STANDARD PROCTOR METHOD (ASTM D 698) - SEE GEOTECHNICAL REPORT

11. IN THE CASE OF CONFLICT BETWEEN THIS DRAWING AND ANY OTHER DRAWING AND/OR THE SPECIFICATIONS, THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR CLARIFICATION.

12. ALL LOT DIMENSIONS, EASEMENTS AND CERTAIN OFF-SITE EASEMENTS ARE TO BE TAKEN FROM THE FINAL PLAT PREPARED BY THE SURVEYOR.

13. OVER EXCAVATION AND ADDITIONAL GRANULAR BACKFILL MAY BE REQUIRED IN HIGH GROUNDWATER AREAS WHICH ARE TO BE DETERMINED BY THE FIELD INSPECTOR OR OWNER.

EXHIBIT D

EXHIBIT D of the CFT NV DEVELOPMENTS, LLC REAL PROPERTY PURCHASE AND SALE AGREEMENT AND JOINT ESCROW INSTRUCTIONS

Seller shall, at Seller's expense, cause to be constructed and completed at the time and in the manner set forth in this Exhibit D, the site preparation and improvements described below, all of which are referred to as " **Seller's Work**":

1. Demolition and Removal of Improvements; Grading and Compaction . Prior to the date Buyer obtains the Permits and in no event later than the 30th day preceding the earliest day on which Buyer will have the right to close Escrow, Seller shall have removed all improvements on or below the surface of the Property , including but not limited to existing buildings, foundations, trash enclosures, parking lot light poles/bases, underground storage tanks and parking surfaces where indicated on Buyer's plans. Existing utility lines shall be removed or capped and abandoned in place as called for on Buyer's plans, and Seller shall be able to deliver the Property to Buyer vacant of all tenants or other occupants and graded to within one tenth (1/10) of one foot (1') of the finished grade elevation as established by Buyer, with the soil tests conducted by Buyer showing the soil on the Property to be ninety-five percent (95 %) compacted with a tolerance of 0.3 %+/- up to the proposed building envelope. Seller shall immediately notify Buyer when the within conditions have been met, and shall provide Buyer with any soil compaction reports, and with a current pad certification from a certified soils engineer relating to the Property. Within the same time frame, Seller shall have closed any and all existing utility accounts and requested and obtained the removal of applicable utility lines and meters.

   Any fill material must be of structural quality with no debris or organic materials and must be placed in eight inch (8") lifts. The moisture content of the soil shall be within the range of 0-4 % above the maximum moisture content in accordance with the Standard Proctor compaction procedure. A copy of soils/geotechnical testing reports and final compaction reports from the Seller's geotechnical testing firm shall be furnished to Buyer prior to pad delivery by Seller and subsequent acceptance by Buyer.

   A letter and building pad certification plan from a state licensed Civil Engineer (attesting to his inspection and certification of the completed building pad) shall be provided by the Seller to the Buyer prior to pad delivery by Seller and subsequent acceptance by Buyer. The Seller-furnished certification letter shall include all as-built utility locations, finished grades and pipe invert elevations.

   As set forth herein, all demolition and removal of existing improvements is Seller's Work and it is Seller's responsibility to perform the work, timely pay for the work to keep the Property lien-free, and to properly and lawfully dispose of all materials removed from the Property. Notwithstanding the foregoing, should Buyer have to, or agree in writing to, perform any of such removal and disposal work, all risks, liabilities and costs associated with the removal of any hazardous materials shall be borne entirely by Seller and all materials removed shall be marked and labeled with manifests indicating Seller ownership and responsibility for the same, Seller shall indemnify and hold harmless Buyer and Buyer's contractors and agents for all costs, risks and liabilities arising from said removals and demolitions.

2. Utility Installation. Prior to the date Buyer obtains the Permits, Utilities shall be installed by Seller. Such Utilities shall be installed to within 5 feetof the Building slab on the Property to the point chosen by Buyer, as designated by Buyer for the Buyer Improvements per the plans to be submitted to Seller. Seller shall also provide Buyer with assurance satisfactory to Buyer that Utilities adequate to serve the Buyer Improvements are available and include legal access across other properties if necessary to serve the Property. " **Utilities"** include without limitation water, gas, electricity, telephone, sanitary sewers and storm drainage. Any City /Utility company evidence of water and/or wastewater capacity shall be furnished to Buyer by Seller prior to Closing.

   • Domestic and Irrigation Water Connections to City Main
   Seller shall furnish and install one pipe of two inch (2") minimum diameter (or one pipe of one and a half inch (1 ½") minimum diameter for domestic water and one pipe of one inch (1") minimum diameter for irrigation water), with backflow assembly, meter stop and shutoff valve as required by the local water/utility company. Water pressure rate shall be between 45 to 60 pounds per square inch. Any expense for necessary backflow preventer certification required by the City or local utility company shall be borne by the Seller, with evidence of certification provided to the Buyer.

   • Sanitary Sewer Connection to City Main
   Seller shall furnish and install one ea. pipe of four inch (4") minimum diameter for sanitary sewer having sufficient invert elevation depth to facilitate a minimum one-quarter inch (¼") per foot slope from the furthest plumbing fixture or grease trap location. Under no circumstance the invert elevation shall be less than 36" below building slab sub-grade.
   • Electrical Service
   Seller shall furnish and install a minimum of two ea. (2) conduits of four inch (4") electrical service conduits (or greater amount or diameter if required by the local utility company) to provide for a Buyer electrical load requirement of 600 amps, 3 phase, 4 wire, and 120/208 volts.
   • Gas Service
   Seller shall furnish and install gas pipe of a diameter sufficient to provide Buyer with a total demand of 2.1 million BTUs (for natural gas of 0.60 specific gravity, based on pressure drop of 0.5 inch water column).
   • Fire Sprinkler System
   If required, Seller shall furnish and install a dedicated fire protection water main system having a main of sufficient diameter, detector check valve, PIV and FDC as mandated by local authorities and Fire Marshal's office**.** Any expense for necessary "fire flow rate" testing of nearby fire hydrants required by the local authorities or Fire Marshal's office shall be borne by Seller, with evidence of testing provided to Buyer. Any expense for additional fire hydrants required by local authorities or Fire Marshal's office shall be borne by Seller.
   • Telephone
   Seller shall furnish and install at a minimum one ea. (1) telephone conduit of four inch (4") diameter and pull string as required by the phone company.

3. Common Area Improvements. Before the Closing Date, Seller shall complete all Common Area Improvements in accordance with the Shopping Center site plan, and applicable conditions to governmental approval of the Shopping Center site plan. "Common Area Improvements" include without limitation all curbs, gutters, paving, striping, landscaping and irrigation systems, retaining walls, driveways, walkways, driveway aprons, trash area as required by applicable code, and traffic intersection signalization/deceleration lanes required to enter the property.

4. Insurance. Seller shall obtain, or shall require that all contractors performing Seller's Work obtain public liability and property damage insurance with limits of liability of not less than a combined single limit of Two Million Dollars ($2,000,000.00) for bodily injury and property damage.

5. Coordination of Work. Seller shall cooperate with Buyer in coordinating Seller's Work with construction of the Buyer Improvements to assure mutual access and to prevent interference with or damage to the work Seller and Buyer are performing.

6. Construction Staging. Buyer shall have the right during the construction of the Buyer Improvements to use a minimum of 6,000 square feet on land adjacent to the Property [or within agreed amount of feet of the Property per the **CFT NV DEVELOPMENTS, LLC REAL PROPERTY PURCHASE AND SALE AGREEMENT AND JOINT ESCROW INSTRUCTIONS** for construction staging purposes, including but not limited to the parking of construction vehicles, the temporary storage of building materials, etc. Such land shall be depicted in an exhibit to be attached to the Purchase and Sale Agreement, and the use by Buyer shall be at no cost to Buyer, except that Buyer shall properly insure against any damage to the land and shall repair any damages to the extent they might be caused by Buyer.

7. Seller's Failure to Perform. If Seller fails to timely perform any of Seller's Work, Buyer shall have the right, in addition to all other remedies, upon ten (10) days' notice to Seller, to cause performance of the work described in the notice. Seller shall reimburse Buyer for all amounts expended by Buyer in performing same, upon receipt of verification from Buyer of the amount so expended, plus interest at the maximum lawful rate. Buyer may elect to receive reimbursement by a credit towards the Purchase Price.

All contractos and the subcontractors shall confirm the above Exhibit "D", of the CFT NV DEVELOPMENTS, LLC REAL PROPERTY PURCHASE AND SALE AGREEMENT AND JOINT ESCROW INSTRUCTIONS, is the most current version prior to any work done.

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

ISSUE DATE:

1	PERMIT/BID	09-13-2022
1	CONSTRUCTION	01-30-2023

ISSUE FOR PERMIT 09-13-2022

Civil Engineering Services
Engineering, Land Planning, and Environmental
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RAY G. FLAKE — REGISTERED PROFESSIONAL ENGINEER — AGRICULTURE & CORE — STATE OF TENNESSEE — 01/30/2023

PANDA EXPRESS

955 N. RIVERSIDE DRIVE
CLARKSVILLE, TN. 37040

TRUE WARM & WELCOME 2600-2022

PANDA PROJECT #: D23503

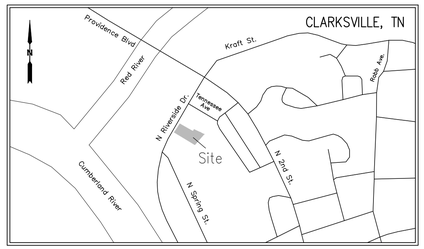
GENERAL NOTES

C01.1

ISSUE FOR PERMIT 09-13-2022

PANDA HOME 2600 R4

VICINITY MAP - NOT TO SCALE



UTILITY NOTE

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

All underground utilities shown hereon are approximate based on markings observed in the field and from information provided such as site plans and utility maps. Excavation could be required to determine the exact location of all such utilities.

FLOOD NOTE

By graphic plotting only, this property is in Zone X, Flood Zone X and Zone AE of the Flood Insurance Rate Map number 47125C0236E which bears an effective date of 01/15/2021 and is partially in a special flood hazard area. No field surveying was performed to determine this zone and a flood elevation certificate may be needed to verify this determination or apply for a variance from the federal emergency management agency.

Zone X - Areas determined to be outside the 0.2% annual chance floodplain.

Flood Zone X - Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

Zone AE - Special flood hazard area subject to inundation by the 1% annual chance flood. The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the Water-Surface elevation of the 1% annual chance flood. Base Flood Elevations determined.

SURVEYOR'S NOTES

1. Source of Title: Plat L, Page 144.
2. All bearings are based on geodetic north observed on 07-27-22.
3. All set iron pins are 5/8" rebar with plastic cap stamped TN1979.
4. Posted Building Address: 955 North Riverside Dr., Clarksville, TN (provided).
5. Public Access to Subject Property via entrance from Riverside Drive, a public right of way, as shown marked "ACCESS".
6. No offsite easements were found at the time of survey.
7. No observed proposed changes in street right of way lines, or recent street or sidewalk construction or repairs at time of survey.
8. No observed evidence of cemeteries, gravesites or burial grounds at time of survey.
9. No evidence of recent earth moving work, building construction, or building additions observed at time of the survey.
10. Adjoining land owners are shown according to the current tax records.
11. No division or party walls with respect to adjoining properties were observed at the time of the survey nor identified by client.
12. No observed evidence on site of substantial areas of refuse at time of survey.
13. Unless noted, all bearings and distances shown are as surveyed.
14. Record plat recorded at Plat L, Page 144
15. Benchmark, Nail set, located by GPS Static Session, OPUS Post-Processed, Horizontal Datum NAD'83, Vertical Datum NAVD '88, Geoid 09.
    Northing: 805,593.25
    Easting: 1,567,031.62
    Elev.: 389.30

LAND SURVEYOR'S CERTIFICATION

To: Newell-Berg Holdings TN, LLC, a Tennessee Limited Liability company.

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 6b, 7a, 7 (b)(1), 7 (c), 8, 10, 13, 14, 16, 17 and 18 of Table A thereof. The field work was completed on 07-28-22.

Preliminary

Kevin David Crowe
Registration No. 1979
In the State of Tennessee
Date of Survey: 07-27-22

ITEMS CORRESPONDING TO SCHEDULE B-II

From First American Title Insurance Company title commitment number NCS-1130510-NAS dated 05-20-22.

Items 1 through 9 are NOT SURVEY ITEMS.

(10) All matters shown on plat(s) of record in Plat Book L, Page 144, in the Register's Office of Montgomery County, Tennessee; BEING A 10' GAS EASEMENT THAT CROSSES THE SUBJECT PROPERTY; ALSO BEING A 20', 5' AND 10' PUBLIC UTILITY & DRAINAGE EASEMENT THAT CROSSES THE SUBJECT PROPERTY; ALSO BEING A 15' SEWER EASEMENT THAT CROSSES THE SUBJECT PROPERTY; ALSO BEING A 30' ACCESS EASEMENT ACROSS SUBJECT PROPERTY, ALL EASEMENTS PLOTTED & SHOWN.

(11) Terms and provisions of Easement Deed, by and between Select Beef I, Inc., a Kentucky corporation and George D. Smithson and wife, Lorene P. Smithson, as tenants by the entireity, of record in Volume 575, Page 2151, in the Register's Office of Montgomery County, Tennessee. (as to Tract 2); BEING AN ACCESS EASEMENT THAT DOES NOT CROSS THE SUBJECT PROPERTY.

(12) Easement(s) granted City of Clarksville in Order of Possession of record in Volume 1382, Page 473, in the Register's Office of Montgomery County, Tennessee; BEING A 20' UTILITY EASEMENT THAT DOES NOT CROSS THE SUBJECT PROPERTY.

Items 13 through 16 are NOT SURVEY ITEMS.

ZONING INFORMATION

Zoning information not yet provided by client.

PARKING TABULATION

Normal Spaces: XX - Disabled Spaces: XX

SIGNIFICANT OBSERVATIONS

No encroachments or other significant items observed at time of survey.

TITLE DESCRIPTION

Being the description from First American Title Insurance Company title commitment number NCS-1130510-NAS dated 05-20-22 at 7:30 AM.

Issuing Office File Number: 955 North Riverside Drive

The land referred to herein below is situated in the County of Montgomery, State of Tennessee, and described as follows:

TRACT 1:

LAND LYING AND BEING IN THE 12TH CIVIL DISTRICT OF MONTGOMERY COUNTY, TENNESSEE, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT AN EXISTING PIN IN THE EAST RIGHT OF WAY OF RIVERSIDE DRIVE SAID POINT BEING THE NORTHWEST CORNER OF THE SUBJECT TRACT AND LOCATED 82.5 FEET FROM THE CENTERLINE OF RIVERSIDE DRIVE AND APPROXIMATELY 376 FEET TO THE NORTH SECOND STREET RIGHT OF WAY ALONG THE EAST RIGHT OF WAY OF RIVERSIDE DRIVE, THENCE SOUTH 64 DEGREES 15 MINUTES 58 SECONDS EAST 184.43 FEET TO AN IRON PIN; THENCE SOUTH 43 DEGREES 22 MINUTES 08 SECONDS WEST 91.55 FEET TO A NEW CONCRETE MARK; THENCE SOUTH 34 DEGREES 11 MINUTES 46 SECONDS WEST 115.32 FEET TO A PK NAIL FOUND; THENCE SOUTH 28 DEGREES 36 MINUTES 44 SECONDS 212.61 FEET TO AN "X" IN THE CONCRETE; THENCE SOUTH 20 DEGREES 19 MINUTES 21 SECONDS WEST 91.70 FEET TO AN EXISTING IRON PIN; THENCE NORTH 70 DEGREES 05 MINUTES 06 SECONDS WEST 147.95 FEET TO A CHISEL POINT IN CONCRETE; THENCE NORTH 25 DEGREES 38 MINUTES 54 SECONDS EAST 363.69 FEET TO AN EXISTING IRON PIN; THENCE SOUTH 64 DEGREES 35 MINUTES 03 SECONDS EAST 9.97 FEET TO AN EXISTING IRON PIN; THENCE NORTH 25 DEGREES 45 MINUTES 23 SECONDS EAST 156.19 FEET TO THE POINT OF BEGINNING.

TRACT 2:

LAND LYING IN THE 12TH CIVIL DISTRICT OF MONTGOMERY COUNTY, TENNESSEE, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT AN IRON PIN LOCATED AT THE NORTHWESTERN CORNER OF THE PROPERTY CONVEYED TO ALLISON AGENCIES, INC. BY DEED OF RECORD IN ORBV 433, PAGE 1873, AS CORRECTED BY ORBV 436, PAGE 2113, ROMCT, THENCE WITH THE EASTERN LINE OF THE MITSUBISHI DEALERSHIP PROPERTY AS FOLLOWS: NORTH 20 DEGREES 18 MINUTES 05 SECONDS EAST 40.10 FEET TO AN IRON PIN; THENCE NORTH 18 DEGREES 32 MINUTES 40 SECONDS EAST 49.86 FEET TO AN IRON PIN; THENCE NORTH 28 DEGREES 34 MINUTES 01 SECONDS EAST 212.70 FEET TO AN IRON PIN; THENCE NORTH 34 DEGREES 16 MINUTES 49 SECONDS EAST 15.19 TO AN IRON PIN; THENCE NORTH 43 DEGREES 22 MINUTES 08 SECONDS EAST 91.55 FEET TO AN IRON PIN; LOCATED AT THE SOUTHEASTERN CORNER OF THE ARBY'S PROPERTY; THENCE WITH THE SOUTHERN HUE OF THE ARBY'S ENTRANCE DRIVE AS FOLLOWS: NORTH 75 DEGREES 59 MINUTES 04 SECONDS EAST 26.71 FEET TO AN IRON PIN; THENCE SOUTH 62 DEGREES 56 MINUTES 25 SECONDS EAST 120.69 FEET TO AN IRON PIN; THENCE SOUTH 13 DEGREES 44 MINUTES 11 SECONDS EAST 19.50 FEET TO AN IRON PIN IN THE WESTERN RIGHT OF WAY MARGIN OF CUMBERLAND TERRACE, TENNESSEE AVENUE AND THE CEMETERY PROPERTY SOUTH 35 DEGREES 04 SECONDS WET 433.62 FEET TO AN IRON PIN; THENCE CONTINUING WITH THE CEMETERY AS FOLLOWS: NORTH 67 DEGREES 24 MINUTES 32 SECONDS WEST 31.50 FEET TO AN IRON PIN; THENCE SOUTH 20 DEGREES 58 MINUTES 19 SECONDS WEST 61.91 FEET TO AN IRON PIN LOCATED AT THE NORTHEASTERN CORNER OF THE ALLISON PROPERTY; THENCE WITH ALLISON'S NORTH LINE AS FOLLOWS: NORTH 70 DEGREES 46 MINUTES 35 SECONDS WEST 50.00 FEET TO AN IRON PIN; THENCE NORTH 70 DEGREES 46 MINUTES 35 SECONDS WEST 50.00 FEET TO AN IRON PIN, THE POINT OF BEGINNING.

INCLUDED IN THE FOREGOING DESCRIPTION, BUT EXPRESSLY EXCLUDED THEREFROM, IS PROPERTY CONVEYED TO FRANCIS J. DEETER AND WIFE, MADGE H. DEETER, TENANTS BY THE ENTIRETY, BY DEED OF RECORD IN VOLUME 637, PAGE 472, IN THE REGISTER'S OFFICE OF MONTGOMERY, TENNESSEE.

BEING FURTHER DESCRIBED AS FOLLOWS:

LAND LYING IN THE 12TH CIVIL DISTRICT OF MONTGOMERY COUNTY, TENNESSEE, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEING A TRACT OF LAND LYING IN CLARKSVILLE, MONTGOMERY COUNTY, TENNESSEE, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT AN EXISTING IRON ROD IN THE EASTERLY RIGHT-OF-WAY LINE OF NORTH RIVERSIDE DRIVE, AT A CORNER COMMON WITH THE PROPERTY OF DONALD W. HENDERSON, AS OF RECORD IN VOLUME V688, PAGE 1103,AT THE REGISTER'S OFFICE FOR MONTGOMERY COUNTY, TENNESSEE;

THENCE LEAVING THE EASTERLY RIGHT-OF-WAY LINE OF NORTH RIVERSIDE DRIVE, WITH THE SOUTHERLY PROPERTY LINE OF DONALD W. HENDERSON, SOUTH 58 DEG 29 MIN 32 SEC EAST, 184.43 FEET TO AN EXISTING PK NAIL;

THENCE NORTH 82 DEG 08 MIN 43 SEC EAST, 6.22 FEET TO AN IRON ROD SET, AT A CORNER COMMON WITH THE PROPERTY OF THE HUMANE SOCIETY OF CLARKSVILLE, AS OF RECORD IN VOLUME V1307, PAGE 1909, AT THE REGISTER'S OFFICE FOR MONTGOMERY COUNTY, TENNESSEE;

THENCE WITH THE WESTERLY PROPERTY LINE OF THE HUMANE SOCIETY OF CLARKSVILLE, SOUTH 45 DEG 34 MIN 38 SEC WEST, 39.10 FEET TO AN EXISTING IRON ROD;

THENCE SOUTH 40 DEG 58 MIN 15 SEC WEST, 77.83 FEET TO AN EXISTING IRON ROD;

THENCE WITH THE SOUTHERLY PROPERTY LINE OF THE HUMANE SOCIETY OF CLARKSVILLE, SOUTH 57 DEG 09 MIN 59 SEC EAST, 151.72 FEET TO AN IRON ROD SET IN THE WESTERLY RIGHT-OF-WAY LINE OF TENNESSEE AVENUE;

THENCE WITH THE WESTERLY RIGHT-OF-WAY LINE OF TENNESSEE AVENUE, AND WITH THE WESTERLY PROPERTY LINE OF THE RIVERVIEW CEMETERY, SOUTH 41 DEG 14 MIN 30 SEC WEST, 318.62 FEET TO AN EXISTING PK NAIL;

THENCE NORTH 61 DEG 38 MIN 06 SEC WEST, 31.50 FEET TO AN EXISTING IRON ROD;

THENCE SOUTH 26 DEG 44 MIN 45 SEC WEST, 61.91 FEET TO AN EXISTING IRON ROD, AT A CORNER COMMON WITH THE PROPERTY OF RICHARD K. HOLLADAY & SHELLY HOLLADAY, AS OF RECORD IN VOLUME V1491, PAGE 1681, AT THE REGISTER'S OFFICE FOR MONTGOMERY COUNTY, TENNESSEE;

THENCE WITH THE NORTHERLY PROPERTY LINE OF RICHARD K. HOLLADAY & SHELLY HOLLADAY, NORTH 65 DEG 00 MIN 09 SEE WEST, 50.00 FEET TO AN EXISTING IRON ROD;

THENCE NORTH 66 DEG 54 MIN 41 SEC WEST, 51.62 FEET TO AN EXISTING IRON ROD, AT A CORNER COMMON WITH LOT 1 OF BSW PARTNERS PROPERTY, AS OF RECORD IN PLAT BOOK E, PAGE 1097, AT THE REGISTER'S OFFICE FOR MONTGOMERY COUNTY, TENNESSEE, ALSO BEING THE PROPERTY OF KAYLA INVESTMENTS, LLC, AS OF RECORD IN VOLUME V 1066, PAGE 2954, AT THE REGISTER'S OFFICE FOR MONTGOMERY COUNTY, TENNESSEE;

THENCE WITH THE NORTHERLY PROPERTY LINE OF SAID LOT 1, NORTH 64 DEG 18 MIN 40 SEC WEST, 147.95 FEET TO AN IRON ROD SET, IN THE EASTERLY RIGHT-OF-WAY LINE OF NORTH RIVERSIDE DRIVE;

THENCE WITH THE EASTERLY RIGHT-OF-WAY LINE OF NORTH RIVERSIDE DRIVE, NORTH 31 DEG 25 MIN 20 SEC EAST, 363.69 FEET TO AN EXISTING IRON ROD;

THENCE SOUTH 58 DEG 46 MIN 37 SEC EAST, 9.97 FEET TO A PK NAIL SET; THENCE NORTH 31 DEG 31 MIN 54 SEC EAST, 156.21 FEET TO THE POINT OF BEGINNING.

BEING THE SAME PROPERTY CONVEYED TO NEWELL-BERG HOLDINGS TN, LLC, A TENNESSEE LIMITED LIABILITY COMPANY, BY DEED FROM TONY D. KNIGHT, OF RECORD IN VOLUME 2072, PAGE 2196; AS AFFECTED BY SCRIVENER'S AFFIDAVIT OF WARRANTY DEED IN VOLUME 2118, PAGE 1040, IN THE REGISTER'S OFFICE OF MONTGOMERY COUNTY, TENNESSEE.

Surveyor's note: The prior description does not depict the subject property and is not depicted hereon. The current description for the subject property should read as follows:

Lot 2 of Plat L, Page 144, in the register's office of Montgomery County, Tennessee.

ALTA/NSPS LAND TITLE SURVEY

PANDA EXPRESS

AS RECORDED IN PLAT BOOK L, PAGE 144
CLARKSVILLE, MONTGOMERY COUNTY, TENNESSEE

Sheet 1 of 2

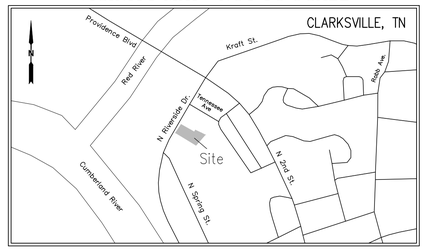
INITIAL SURVEY: 07-27-22

LAST UPDATE: 09-08-22

0' 20'
Scale: 1" = 20'

CROWE - WHEELER and ASSOCIATES
PROFESSIONAL LAND SURVEYING AND MAPPING SERVICES
2865 HALFWAY HALIFAX RD, SCOTTSVILLE, KY 42164
Office: 270.393.8500 Fax: 270.393-8540
DRAWN BY: RJL FILE: 22-208ALTA.DWG

VICINITY MAP - NOT TO SCALE



LINE TABLE

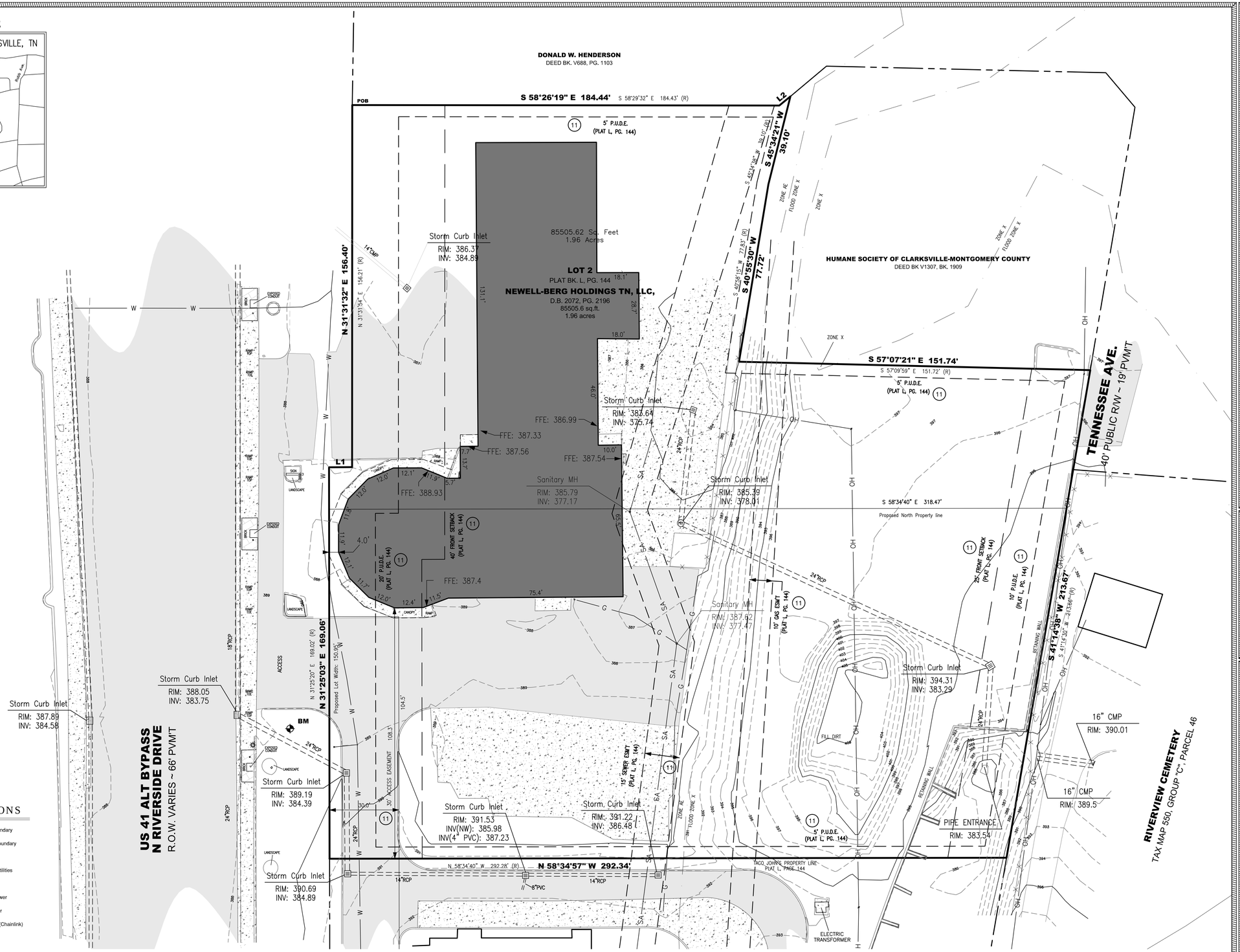
SURVEYED

LINE	BEARING	DISTANCE
L1	S 58°57'58" E	9.99'
L2	N 82°09'20" E	6.22'

RECORDED

LINE	BEARING	DISTANCE
L1	S 58°46'37" E	9.97'
L2	N 82°08'43" E	6.22'

Preliminary



LEGEND OF SYMBOLS & ABBREVIATIONS

- Set Boundary Monument
- Existing Monument
- Sanitary Sewer Manhole
- Cleanout
- Storm Drain
- Gas Meter
- Gas Valve
- Water Meter
- Fire Hydrant
- Water Valve
- CATV Vault
- Google Fiber Vault
- Utility Pole
- Light Pole
- Electric Manhole
- Electric Meter
- Handicapped Space

- Subject Boundary
- Adjoining Boundary
- W — W — Water Line
- OH — OH — Overhead Utilities
- G — G — G — Gas Line
- SA — SA — Sanitary Sewer
- Storm Sewer
- Fence Line (Chainlink)

IR(O) Iron Rod (Old)
BM Benchmark
POB Point of Beginning

ALTA/NSPS LAND TITLE SURVEY

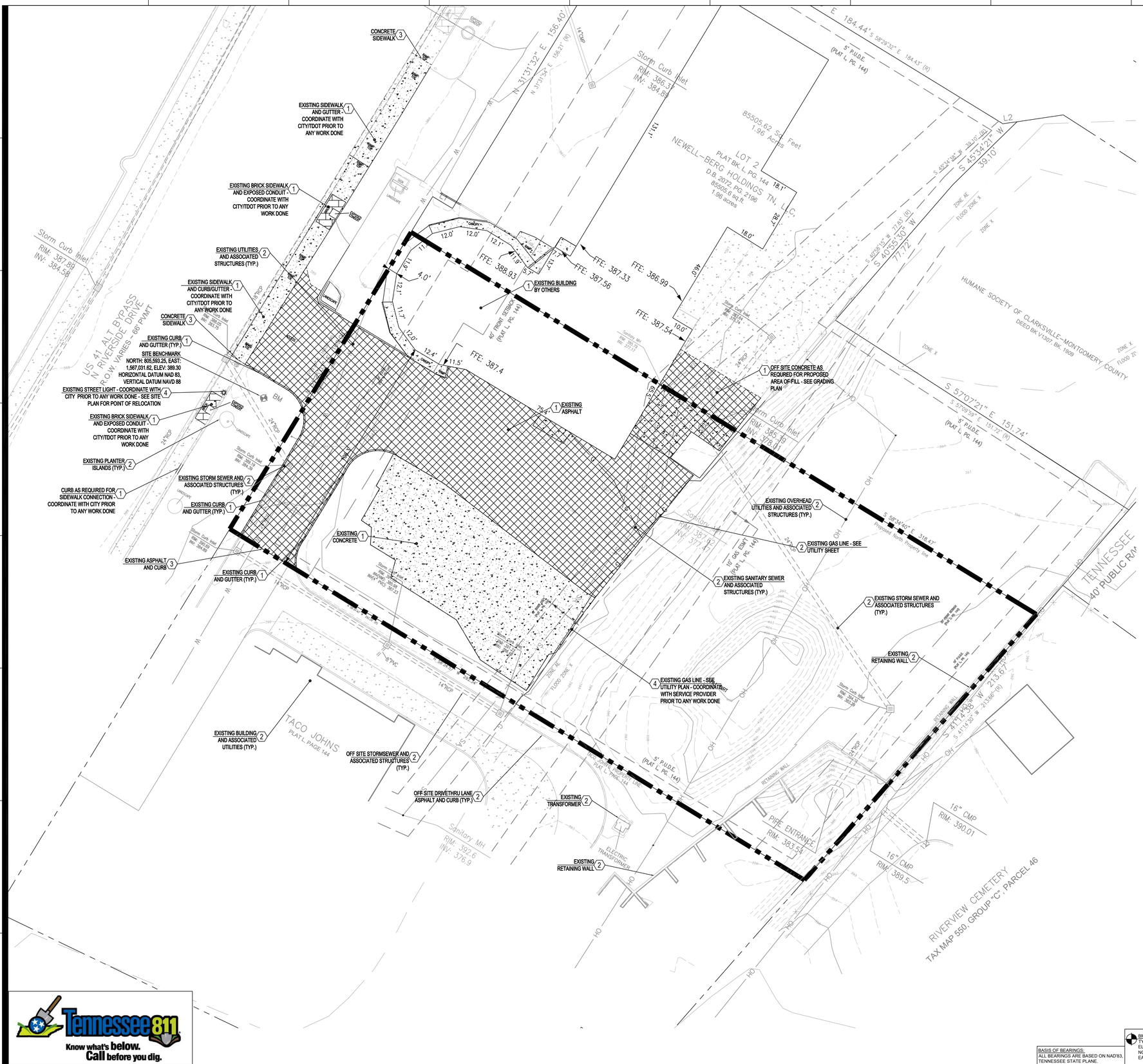
Panda Express

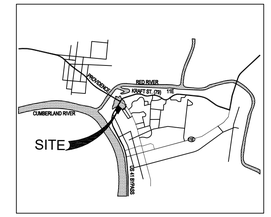
AS RECORDED IN PLAT L, PAGE 144
CLARKSVILLE, MONTGOMERY COUNTY, TENNESSEE

Sheet 2 of 2
INITIAL SURVEY: 07-27-22
LAST UPDATE: 09-08-22

0' 20'
Scale: 1" = 20'

CROWE - WHEELER and ASSOCIATES
PROFESSIONAL LAND SURVEYING AND MAPPING SERVICES
2865 HALFWAY-HALIFAX RD, SCOTTSVILLE, KY 42164
Office: 270.393.8500 Fax: 270.393-8540
DRAWN BY: RJL FILE: 22-209ALTA.DWG





LOCATION MAP
NOT TO SCALE

DEMO NOTES
SEE DEMOLITION NOTE ON SHEET C01.1

DEMO LEGEND
- APPROXIMATE LIMITS OF ASPHALT / CONCRETE SAWCUT
- EXISTING ASPHALT TO BE REMOVED
- EXISTING CONCRETE TO BE REMOVED

DEMOLITION KEYNOTES
1. REMOVE EXISTING SITE FEATURE
2. PROTECT EXISTING SITE FEATURE
3. SAWCUT ASPHALT/CONCRETE
4. RELOCATE EXISTING SITE FEATURE

TOTAL SITE AREA = 46,099 SQ.FT.
EXISTING IMPERVIOUS AREA = 23,069 SQ.FT.

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:

ISSUE DATE:

1	PERMIT/BID	09-13-2022
1	CONSTRUCTION	01-30-2023

PANDA PROJECT #: D23503

Civil Engineering Services
Engineering, Land Planning, and Environmental
7705 Spicer Farm Lane
Fairview, Tennessee
37062
Phone: (615) 533-0401
e-mail: ray@civilengineeringservices.net

RAY G. FLAKE REGISTERED PROFESSIONAL ENGINEER AGRICULTURE ZONE CHARLES 2 STATE OF TENNESSEE
01/30/2023

PANDA EXPRESS

955 N. RIVERSIDE DRIVE
CLARKSVILLE, TN. 37040

TRUE WARM & WELCOME 2600-2022

DEMOLITION PLAN

C02.1

PANDA HOME 2600 R4

ISSUE FOR PERMIT 09-13-2022

ISSUE FOR PERMIT 09-13-2022

SITE DATA TABLE

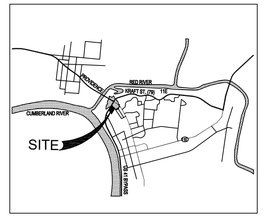
- ZONING:
  C2 GENERAL COMMERCIAL DISTRICT
- REQUIRED BUILDING SETBACKS:
  FRONT (W)= 20'
  REAR (E) = 25'
  SIDE (N) = N/A
  SIDE (S) = N/A
- SITE ACREAGE:
  46,099 SF / 1.06 AC
- FLOOR AREA RATIO:
  PANDA EXPRESS = 2,698 SF BLDG / SITE AREA 46,099= 5.85%
- LIMITS OF DISTURBANCE = 51,861 SF / 1.19 AC
- PROPOSED SITE IMPERVIOUS SURFACE RATIO
  TOTAL SITE = 46,099 SF
  PAVEMENT/SIDEWALKS = 29,591 SF
  BUILDING = 2,698 SF
  TOTAL IMPERVIOUS = 32,289 SF
  TOTAL PERVIOUS = 13,810 SF
  PERCENT IMPERVIOUS = 70.04%
- PARKING
  RESTAURANT: 10/1000 SF
  PANDA EXPRESS - 2,661 SF = 27 SPACES
  TOTAL NON-ADA PARKING: 34
  TOTAL ADA PARKING: 2
  TOTAL PARKING PROVIDED: 34
- REQUIRED PARKING SETBACKS:
  FRONT (W)= 0'
  REAR (E) = 0'
  SIDE (N) = 0'
  SIDE (S) = 0'
- FLOOD HAZARD:
  F.I.R.M. MAP NO. #47125C0236E

SEE CFT NV DEVELOPMENTS, LLC REAL PROPERTY PURCHASE AND SALE AGREEMENT AND JOINT ESCROW INSTRUCTIONS, EXHIBIT "D" TO REAL PROPERTY PURCHASE AGREEMENT FOR SELLERS WORK SCOPE ON SHEET C01.1

TDOT NOTES:
1. ALL DRIVEWAYS MEET AASHTO INTERSECTION SITE DISTANCE.
2. ALL PAVEMENT MARKINGS ON TDOT RIGHT OF WAY SHALL BE THERMOPLASTIC PER TDOT SPECS.

PROPOSED SITE LEGEND

- (8) PARKING STALL COUNT - SEE PLANS
- LIGHT DUTY CONCRETE PAVING - SEE DETAIL SHEET SECTION (C03.1)
- HEAVY DUTY CONCRETE PAVING - SEE DETAIL SHEET SECTION (C03.1)
- CONCRETE SIDEWALK - SEE DETAIL SHEET (C03.1)
- CONCRETE PAVING AT DUMPSTER ENCLOSURE, DRIVE THRU, AND PARKING ALONG BUILDING PER GEOTECHNICAL REPORT
- HANDICAP PARKING
- DIRECTIONAL ARROWS
- PROPOSED CURB AND GUTTER AT CONCRETE - MONOLITHIC AT CONCRETE PAVEMENT - SEE DETAIL SHEET (C03.1)
- LIGHT POLE - SEE PHOTO METRIC PLAN - SEE LIGHT POLE BASE ON DETAIL SHEET (C03.1)



LOCATION MAP

NOT TO SCALE

GENERAL NOTES

SEE NOTES ON SHEET C01.1

SITE KEY NOTES:

PAVEMENT AND CURBING

1. PROVIDE CURB AND GUTTER AT ASPHALT - MONOLITHIC CURB AT CONCRETE PAVEMENT - SEE DETAIL SHEET (C03.1)
2. PROVIDE CONCRETE SIDEWALKS PER DETAIL SHEET (C03.2) - PROVIDE CONCRETE SIDEWALK WITH INTEGRAL CURB AT BUILDING AND PARKING PER DETAIL SHEET (C03.2)
3. HEAVY DUTY CONCRETE PAVING AT DRIVE THRU ISLE - SEE DETAIL SHEET (C03.1) & GEO-TECH REPORT (GRAY COLOR, LIGHT BROOM FINISH)
4. NEW HEAVY DUTY CONCRETE APRON AT DUMPSTER ENCLOSURE - SEE ARCHITECTURAL DETAIL SHEET - SEE DETAIL SHEET (C03.1)
5. BOLLARD PLAN - SEE DETAIL (C03.2)
6. SEALED CONC. SIDEWALK. (AQUA MIX SEALER'S CHOICE GOLD). CONCRETE TO BE LIGHT BROOM TEXTURE FINISH. PROVIDE UNDER SLAB TREATMENT PER SOIL REPORT. PROVIDE POSITIVE DRAINAGE AWAY FROM BLDG. AND ALL SIDE WALKS.
7. EXPANSION JOINT - SEE SOILS REPORT FOR SPACING - SEE DETAIL SHEET (C03.1)
8. CONTROL JOINTS - SEE SOILS REPORT FOR SPACING - SEE DETAIL SHEET (C03.1)
9. PROVIDE HEAVY DUTY ASPHALT PAVING - SEE DETAIL SHEET (C03.1)
10. PROVIDE LIGHT DUTY PAVING AT PARKING STALLS - SEE DETAIL SHEET (C03.1)
11. PROVIDE LIGHT CONCRETE PAVING AT PARKING STALLS ALONG BUILDING - SEE DETAIL SHEET (C03.1)
12. PERVIOUS PAVERS - SEE DETAIL SHEET (C03.2)

PAVEMENT STRIPING / ADA FEATURES / TRAFFIC SIGNAGE

15. ADA ACCESSIBLE RAMP AT HANDICAP PARKING STALLS - SEE GRADING PLAN FOR ELEVATIONS - SEE HANDICAP PARKING ON DETAIL SHEET (C03.1)
16. ADA DETECTABLE WARNING AT EDGE OF PAVEMENT - SEE HANDICAP PARKING DETAIL ON DETAIL SHEET (C03.1)
17. HANDICAP AND VAN ACCESSIBLE PARKING LAYOUT, SIGNAGE, AND STRIPING - SEE DETAIL SHEET (C03.1)
18. ALL SITE DIRECTIONAL SIGNAGE, PAVEMENT STRIPING AND MARKINGS SHALL BE COORDINATED WITH PRG'S PROJECT MANAGER.
19. 4" WIDE DIAGONAL STRIPES PAINTED WHITE AT 2 FT. O.C. PER CITY SPECS.
20. 4" WIDE PARKING STRIPE PAINTED WHITE PER CITY SPECS.
21. TRAFFIC ARROW PAINTED WHITE - SEE DETAIL SHEET (C03.1)
22. STOP BAR PAINTED WHITE PER MUTCD SPECS.
23. "STOP" SIGN PER MUTCD/LOCAL MUNICIPALITY SPECIFICATIONS

PANDA EXPRESS SITE FEATURES

30. DRIVE THRU LANE SENSOR LOOP SEE DETAIL - SEE ARCH DETAIL SHEET
31. NEW PAINTED SWITCHGEAR LOCATION - SEE ELECTRICAL PLANS
32. ORDER CONFIRMATION BOARD - SEE ARCH DETAIL SHEET
33. DRIVE THROUGH MENU BOARD-INSTALLED BY GC. VERIFY WITH PANDA P.M. - SEE ARCH DETAIL SHEET
34. CLEARANCE BAR INSTALLED BY SIGN VENDOR - RE: ELECTRICAL DRAWING FOR REQUIREMENTS, G.C. TO COORDINATE LOCATION WITH PRG P.M.
35. WHEEL STOP - GNR TECHNOLOGIES, "PARK-IT" 6' PARKING CURB #16201R (BLACK AND YELLOW) OR OWNER APPROVED EQUAL
36. TRASH ENCLOSURE, CONFIRM BIN SIZE WITH LOCAL WASTE MANAGEMENT COMPANY. (TYP. 6 YARD BIN) - SEE ARCH DETAIL SHEET
37. PROVIDE NEW PANDA EXPRESS SIGN ON EXISTING SIGN POLE (SEE SIGN DESIGN BY OTHERS)
38. LIGHT POLE - SEE PHOTO METRIC PLAN - SEE LIGHT POLE BASE ON DETAIL SHEET (C03.1)
39. TIE TO ROOF DRAIN COLLECTOR FROM BUILDING - SEE PLUMBING PLANS FOR UNDERGROUND CONNECTION AT BUILDING - SEE ELEVATION THIS SHEET - OVERFLOW PIPE FROM ROOF DRAIN TO DAYLIGHT UNDER CONCRETE FLATWORK AT FACE OF CURB - SEE PLUMBING PLANS FOR LOCATION
40. APPROXIMATE LOCATION OF PAD MOUNTED TRANSFORMER PAD PER SERVICE PROVIDER SPECS. - COORDINATE WITH SERVICE PROVIDER PRIOR TO CONSTRUCTION
41. EDGE OF CONCRETE SIDEWALK AT PLANTER BED - SEE LANDSCAPE PLAN (L01.0)
42. "THANK YOU / DO NOT ENTER" SIGN
43. ONLINE ORDER SIGN - SEE ARCH DETAIL SHEET
44. CURB SIDE PICK-UP / POST & PANEL SIGN - SEE ARCH DETAIL SHEET

ADDITIONAL SITE FEATURES

50. MATCH EXISTING GRADE
51. EXISTING FIRE HYDRANT
52. HEAVY DUTY CONCRETE DRIVE ENTRANCE PER CITY SPECS - SEE TDOT DETAIL RP-D-16
53. PROVIDE SIDEWALK WITH CURB AND GUTTER PER TDOT DETAIL MM-SW1
54. TAPER CURB FROM 0" TO 6" OVER 2 FEET
55. DO NOT BLOCK STRIPING, OPTION "C", PER MUTCD SPECS.
56. "DO NOT BLOCK INTERSECTION" SIGN PER MUTCD SPECS.
57. THERMAL PLASTIC SOLID YELLOW LANE STRIPE PER TDOT SPECS.
58. ADA RAMP PER CITY SPECS
59. APPROXIMATE LOCATION FOR RELOCATED STREET LIGHT - COORDINATE WITH CITY PRIOR TO ANY WORK DONE
60. DOUBLE SOLID THERMAL PLASTIC YELLOW LANE STRIPE PER TDOT SPECS.
61. THERMAL PLASTIC WHITE STOP BAR PER TDOT SPECS.
62. THERMAL PLASTIC WHITE TRAFFIC ARROW PER TDOT SPECS

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

Tennessee811 Know what's below. Call before you dig.

BASIS OF BEARINGS:
ALL BEARINGS ARE BASED ON NAD'83, TENNESSEE STATE PLANE.

BM #1
TYPE: PK NAIL SET IN CURB
ELEVATION - 387.64
NORTHING - 805,593.25
EASTING - 1,567,031.62

FLOOD STATEMENT:
BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS IN ZONE(S) X, FLOOD ZONE X AND ZONE AE OF THE FLOOD INSURANCE RATE MAP NUMBER 47125C0236E WHICH BEARS AN EFFECTIVE DATE OF 01/15/2021 AND IS IN A SPECIAL FLOOD HAZARD AREA. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE AND A FLOOD ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION OR APPLY FOR A VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

ISSUE FOR PERMIT 09-13-2022

PANDA EXPRESS · CHINESE KITCHEN

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
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91770
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1	CONSTRUCTION	01-30-2023

PANDA PROJECT #: D23503

Civil Engineering Services
Engineering, Land Planning, and Environmental
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e-mail: ray@civilengineeringservices.net

RAY G. FLAKE — REGISTERED PROFESSIONAL ENGINEER — AGRICULTURE — No. 120992 — STATE OF TENNESSEE — 01/30/2023

PANDA EXPRESS

955 N. RIVERSIDE DRIVE
CLARKSVILLE, TN. 37040

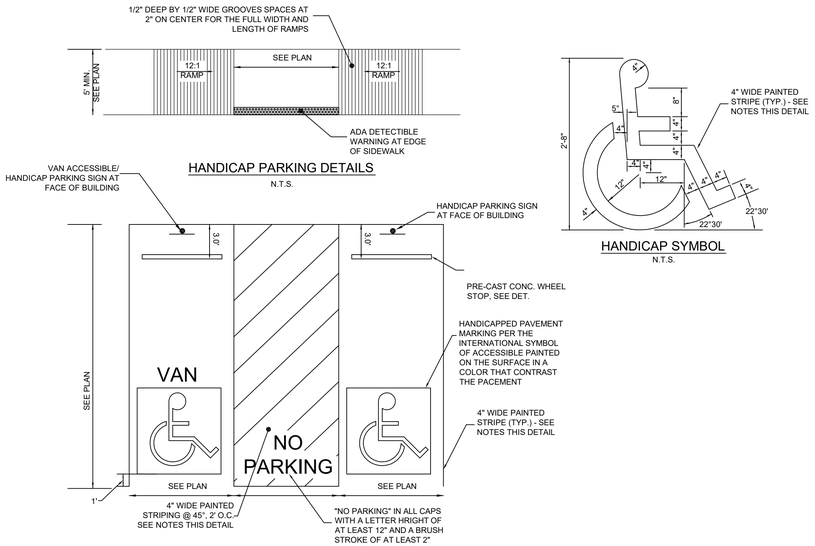
TRUE WARM & WELCOME 2600-2022

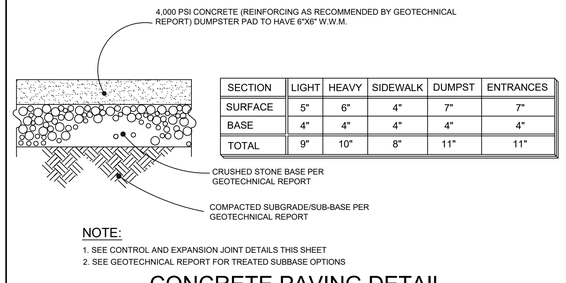
SITE PLAN

C03.0

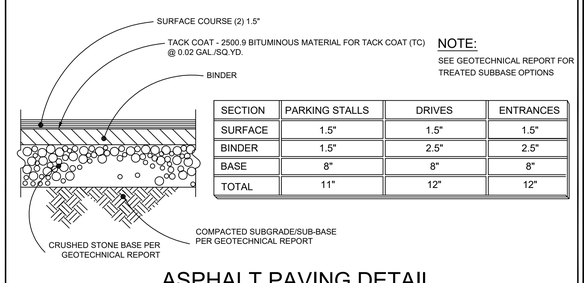
ISSUE FOR PERMIT 09-13-2022

PANDA HOME 2600 R4



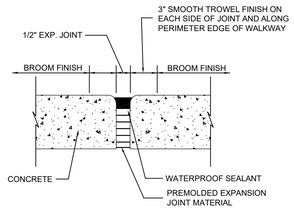


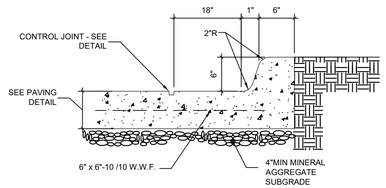
SECTION	LIGHT	HEAVY	SIDEWALK	DUMPST	ENTRANCES
SURFACE	5"	6"	4"	7"	7"
BASE	4"	4"	4"	4"	4"
TOTAL	9"	10"	8"	11"	11"

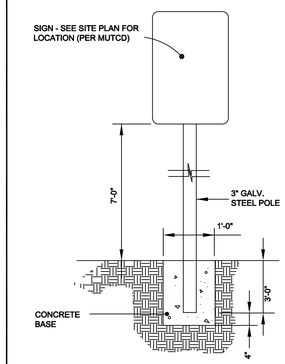


NOTE:
SEE GEOTECHNICAL REPORT FOR TREATED SUBBASE OPTIONS

SECTION	PARKING STALLS	DRIVES	ENTRANCES
SURFACE	1.5"	1.5"	1.5"
BINDER	1.5"	2.5"	2.5"
BASE	8"	8"	8"
TOTAL	11"	12"	12"



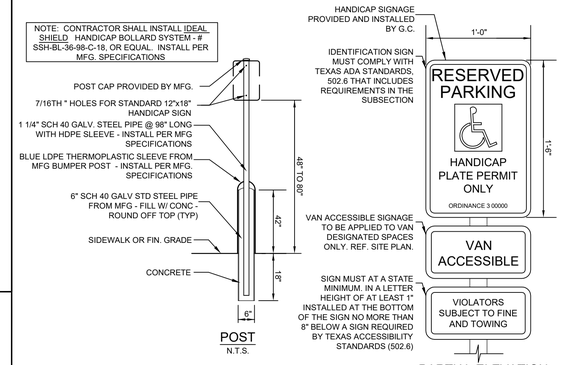




NOTES:
1. METAL SURFACES SHALL BE FREE OF HEAVY RUST. BOLLARDS SHALL HAVE 2 COATS SHERWIN WILLIAMS - KEM 4000 ACRYLIC ALKYD ENAMEL SAFETY YELLOW B55Y300

2. SIGNAGE SHALL COMPLY WITH AMERICAN'S WITH DISABILITIES ACT (A.D.A.) SIGNAGE GUIDELINES

3. ALL PAINTED ADA PARKING SURFACES SHALL BE CLEAN AND DRY. TOP COAT PROVIDE TWO (2) COATS SHERWIN WILLIAMS - PROMAR TRAFFIC MARKING PAINT "H.C." BLUE



HANDICAP SIGN DETAIL
N.T.S.

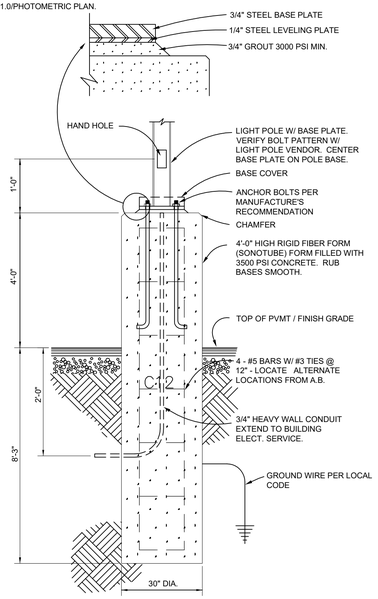
NOTES:
1. POLE BASE IS DESIGNED FOR A SOIL BEARING PRESSURE 100 PSF/FT BASED ON SOIL TYPE. CONTACT CIVIL ENGINEER IF LOWER ONSITE BEARING PRESSURE IS ENCOUNTERED.

2. DESIGN WIND SPEED IS 110 MPH. CONTACT CIVIL ENGINEER IF LOCAL CODE OR ORDINANCE REQUIRES FOR HIGHER WIND SPEED.

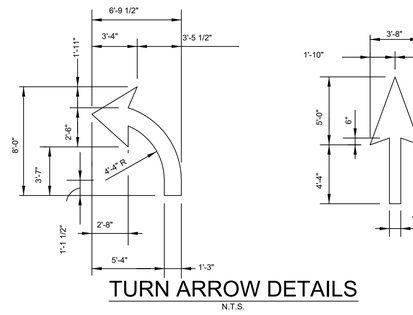
3. REBAR SPLICES ARE NOT PERMITTED.

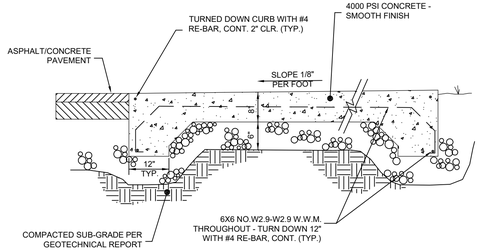
4. FACTORY SUPPLIED TEMPLATE MUST BE USED WHEN SETTING ANCHOR BOLTS.

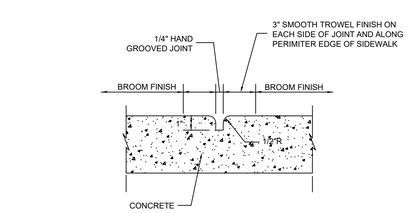
5. FOR LOCATION, SEE ES1.0/PHOTOMETRIC PLAN.



LIGHT POLE BASE DETAIL
N.T.S.







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RAY G. FLAKE — LICENSED PROFESSIONAL ENGINEER — AGRICULTURE/CORE — STATE OF TENNESSEE — 01/30/2023

PANDA EXPRESS

955 N. RIVERSIDE DRIVE
CLARKSVILLE, TN. 37040

TRUE WARM & WELCOME 2600-2022

HARDSCAPE DETAILS I

C03.1

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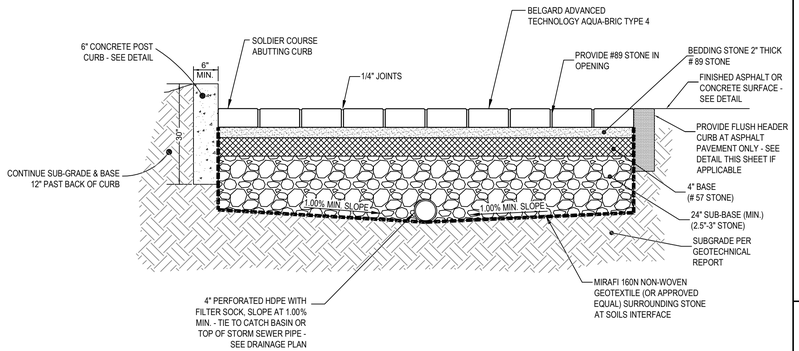
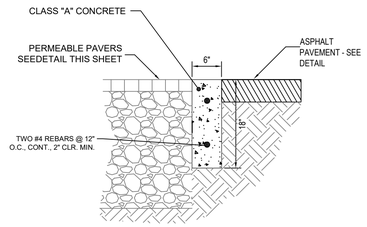
PANDA HOME 2600 R4

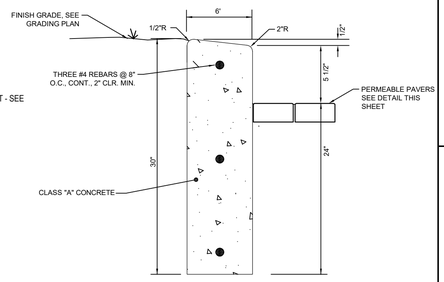


NOTE: ALL STONE TO BE WASHED.
NO FINES ALLOWED.

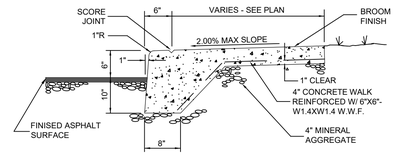
PERVIOUS PAVER DETAIL
N.T.S.



CONCRETE HEADER CURB
N.T.S.

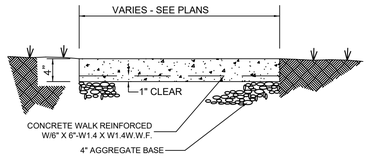


6" CONCRETE POST CURB AT PERMEABLE PAVERS
N.T.S.



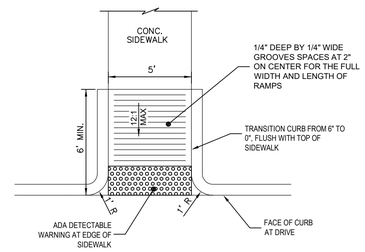
SPACING NOTES
1. EXPANSION JOINTS SPACED AT 20' O.C. - SEE DETAIL
2. CONTROL JOINTS SPACED AT 5' O.C. - SEE DETAIL
3. WHERE SIDEWALK ABUTS FACE OF BUILDING, PROVIDE EXPANSION JOINT.

CONCRETE SIDEWALK WITH HAUNCHED CURB
N.T.S.

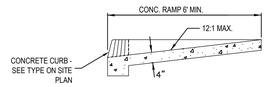


NOTES:
1. PROVIDE CONTROL JOINTS PER DETAIL THIS SHEET SPACED EVERY 5 FT. AND EXPANSION JOINTS PER DETAIL THIS SHEET EVERY 20 FT.
2. SUBGRADE COMPACTED PER SOILS REPORT
3. WHERE SIDEWALK ABUTS FACE OF BUILDING, PROVIDE EXPENSION JOINT.

CONCRETE SIDEWALK
N.T.S.

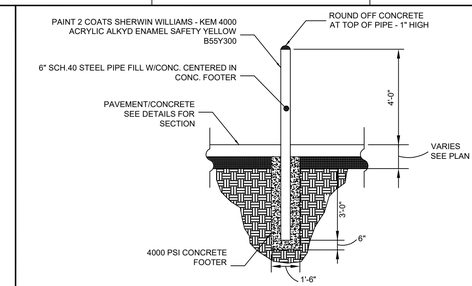


RAMP PLAN VIEW



RAMP SECTION

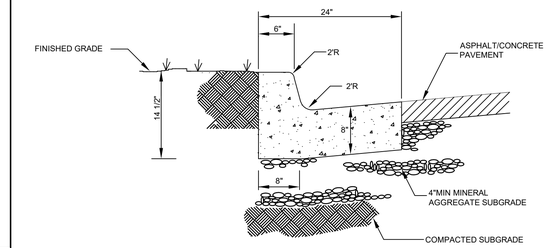
ADA ACCESSIBLE RAMP
N.T.S.



BOLLARD DETAIL
N.T.S.

NOTE:
REVERSE SLOPE OF GUTTER WHERE PAVEMENT SLOPES AWAY FROM CURB LINE - MATCH PROPOSED PAVEMENT SLOPE

SEE GEOTECHNICAL REPORT FOR TREATED SUBBASE OPTIONS.



CONCRETE CURB & GUTTER
N.T.S.

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01/30/2023

PANDA EXPRESS

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TRUE WARM & WELCOME 2600-2022

HARDSCAPE DETAILS II

C03.2

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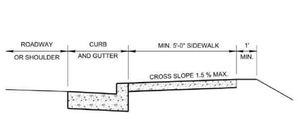
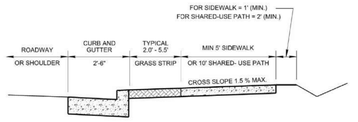
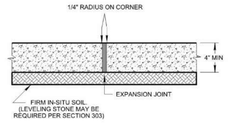
PANDA HOME 2600 R4



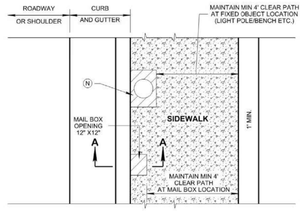
TYPICAL SIDEWALK CROSS SECTION WITHOUT GRASS STRIP



TYPICAL SIDEWALK CROSS SECTION WITH GRASS STRIP

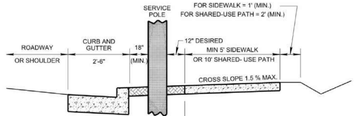


EXPANSION JOINT DETAIL



NOTE: WHEN NEEDED DUE TO EXTREME SITE CONDITIONS THE PLACEMENT OF SERVICE APPURTENANCES SHALL PROVIDE MINIMUM 4' CLEAR PATH.

SIDEWALK CONSTRUCTION DETAILS WITHOUT GRASS STRIP PLAN VIEW



NOTE: IF SERVICE POLE IS PLACED IN GRASS STRIP THE POLE SHALL HAVE MIN. 3' OFFSET FROM TRAVELLED LANE. MINIMUM 36" DIAMETER AND 18' DEEP FOUNDATION SPACE SHALL BE EVALUATED TO ELIMINATE CONFLICTS.

SERVICE APPURTENANCES (LARGE SIGNS, STRUCTURES, SIGNAL, LUMINARY AND UTILITY POLES 2' DIAMETER OR LARGER) SHALL BE PLACED OUTSIDE THE PEDESTRIAN ACCESSIBLE SPACE, PREFERABLY OUTSIDE THE SIDEWALK AREA AND INSIDE THE RIGHT-OF-WAY.

TYPICAL SIDEWALK CROSS SECTION WITH GRASS STRIP AND SERVICE APPURTENANCES

GENERAL NOTES

(A) ALWAYS PLACE SIDEWALK AS FAR AS AWAY FROM THE TRAVELLED WAY WHEN POSSIBLE FOR SPECIFICATIONS SEE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION.

(B) WHERE IT BECOMES NECESSARY TO REMOVE PARTS OF EXISTING CONCRETE SIDEWALKS OR RAMPS, THE RESULTING EDGES SHALL BE CUT TO A NEAT LINE, AND ANY OFFSETS IN SUCH LINES SHALL BE MADE AT RIGHT ANGLES.

(C) SIDEWALK WIDTHS DO NOT INCLUDE THE SIX INCH CURB WIDTH OF PROPOSED TOP OF CURB.

(D) MAXIMUM SIDEWALK CROSS SLOPE IS 1.5 %. ALL SIDEWALKS SHALL HAVE A BROOM FINISH AND SHALL BE 4" THICK UNLESS THE PLANS CALL FOR 6" THICKNESS. THE CONCRETE SHALL BE CLASS "A" AT 3000 PSI. ALL COST TO BE INCLUDED IN ITEM NO. 701-01.01,CONCRETE SIDEWALK (4"), S.F. OR 701-01.02,CONCRETE SIDEWALK (6"), S.F.

(E) SEE STD. DWG. MM-TS-2 FOR LATERAL OFFSET/ BUFFER GUIDANCE.

(F) EXPANSION JOINTS ARE TO BE PLACED 25 TO 33 FEET APART DEPENDING ON TRANSVERSE JOINT MARKINGS AND NEED TO MATCH CURB EXPANSION JOINT WHERE SIDEWALK IS BUILT DIRECTLY AGAINST CURB. OR AS DIRECTED BY THE ENGINEER WHERE THE PROPOSED SIDEWALK IS IN CONTACT WITH THE STREET RETURNS, ON BUILDING LINES PRODUCED AT STREET INTERSECTIONS. WHERE WALKS LEAD TO HOUSE OR OTHER ENTRANCES AND ANY OTHER LOCATIONS WHERE STRESSES MAY DEVELOP. THE COST OF ALL EXPANSION JOINTS IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PROPOSED SIDEWALK.

(G) CONCRETE JOINT MATERIAL TO BE FLUSH WITH THE SIDEWALK SURFACE. ONE INCH PREFORMED FILLER IN ACCORDANCE WITH SECTION 702.06 OF THE STANDARD SPECIFICATIONS.

(H) ONE INCH EXPANSION JOINTS ARE TO BE PLACED WHERE THE PROPOSED SIDEWALK IS IN CONTACT WITH CIRCULAR CURBS, BUILDINGS AND/OR RETAINING WALLS.

(I) HALF INCH EXPANSION JOINTS ARE TO BE USED AT ALL OTHER LOCATIONS.

(J) LONGITUDINAL JOINT MARKINGS WILL NOT BE REQUIRED ON SIDEWALKS THAT ARE 5 FEET OR LESS IN WIDTH.

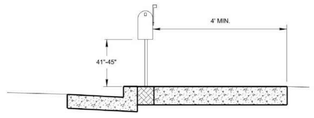
(K) ONE LONGITUDINAL JOINT MARKING WILL BE REQUIRED ON SIDEWALKS OVER 5 FEET BUT LESS THAN 9 FEET IN WIDTH.

(L) TWO LONGITUDINAL JOINT MARKINGS WILL BE REQUIRED ON SIDEWALKS OVER 9 FEET BUT LESS THAN 12 FEET IN WIDTH.

(M) TRANSVERSE JOINT MARKINGS ARE TO BE MADE TO FORM BLOCKS AS NEARLY TO SQUARE AS PRACTICAL.

(N) WHEN LEAVING A SQUARE OPENING IN THE SIDEWALK, THE LENGTH OF THE SIDE OF THE SQUARE OPENING SHOULD BE EQUAL TO THE DIAMETER OF THE FIXED OBJECT PLUS SIXTEEN INCHES. IT WILL BE BORDERED BY HALF INCH EXPANSION JOINT.

(O) WHEN NEW SIDEWALK IS PLACED ADJACENT TO EXISTING SIDEWALK THE CONTRACTOR SHALL CORRECT ALL ABRUPT CHANGES AND SLOPES TO PROVIDE A SMOOTH TRANSITION FROM THE LIMIT OF CONSTRUCTION TO EXISTING PEDESTRIAN FACILITY.



SECTION A-A
MAILBOX DETAIL

NOTE: LEAVE 12"X12" OPENING IN SIDEWALK FOR MAILBOX POST. ORIENT THE BOXES TO FACE THE DIRECTION OF ONCOMING TRAFFIC. EDGE OF MAILBOX SHALL NOT OVER-HANG BEYOND THE FACE OF THE CURB. NOR SHALL THE MAILBOX OVERHANG THE SIDEWALK SUCH THAT THE USABLE WIDTH IS LESS THAN 4 FEET.

REMOVAL AND RESETTING MAILBOXES TO BE INCLUDED IN THE COST OF SIDEWALK.

REFERENCED STANDARD DRAWINGS

SEE T-MI-4, FOR CROSS WALK MARKING
SEE MM-CR SERIES FOR CURB RAMP DETAILS
SEE MM-BPR-1, FOR PEDESTRIAN RAIL REQUIREMENTS
SEE MM-SW-2, FOR ALTERNATE DETAILS FOR CONCRETE SIDEWALK (REHABILITATION)
SEE RP-SC-1, FOR 6" SLOPING CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
SEE RP-VC-10 OR 11, FOR VERTICAL CONCRETE CURB AND CONCRETE CURBS AND GUTTER DETAILS
SEE MM-PM-1 THRU MM-PM-5, FOR BIKE LANE/ROUTE PAVEMENT MARKINGS
SEE S-PL-6, FOR GUARD/RAIL PLACEMENT
SEE RP-D-15 & 16 FOR CONCRETE DRIVEWAYS
SEE MM-TS-2 FOR PEDESTRIAN FACILITY LATERAL OFFSETS
SEE MM-TS-3 FOR SHARED USE TYPICAL SECTIONS

REV. [6-28-19] REVISED GENERAL NOTES (B) (D) (E) & (H) ALONG WITH DETAIL NOTES FOR "TYPICAL SIDEWALK CROSS SECTION WITH GRASS STRIP AND "TYPICAL SIDEWALK CROSS SECTION WITHOUT GRASS STRIP". ADDED NOTE TO MAILBOX DETAIL.

(Replaced Std Dwg RP-S-7)

STATE OF TENNESSEE
STANDARD DRAWING
DEPARTMENT OF TRANSPORTATION

DETAILS FOR CONCRETE SIDEWALK

01-07-2019 | MM-SW-1

NOT TO SCALE

11/7/2019 10:09:18 AM
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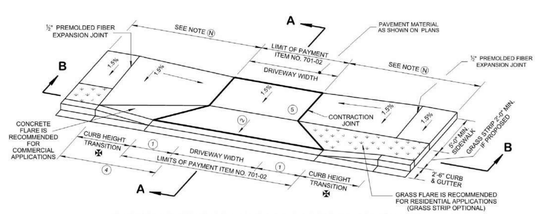
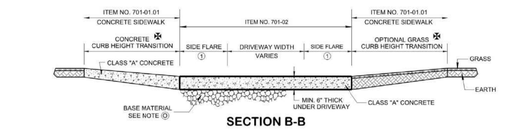
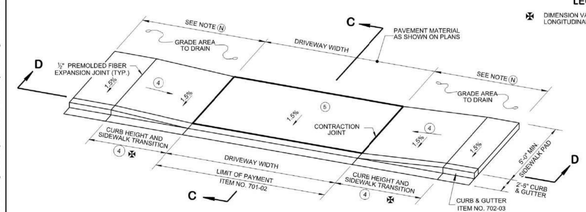


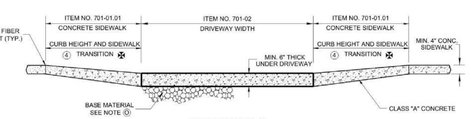
TYPE "B" DRIVEWAY ACROSS LOWERED SIDEWALK (WITH GRASS STRIP)



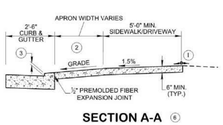
SECTION B-B



TYPE "C" DRIVEWAY ACROSS LOWERED SIDEWALK



SECTION D-D



SECTION A-A (6)

FOOTNOTES

(1) SIDE FLARE WIDTH SHOULD BE A MINIMUM 7'-0" FOR COMMERCIAL DRIVEWAYS. SIDE FLARE WIDTH SHOULD BE A MINIMUM 2'-6" FOR RESIDENTIAL DRIVEWAYS.

(2) DRIVEWAY RAMP GRADE VARIES. 15% MAX. (10% RECOMMENDED) APRON GRADE FOR RESIDENTIAL DRIVEWAYS. 8% MAX. (5% RECOMMENDED) APRON GRADE FOR COMMERCIAL DRIVEWAYS.

(3) HEIGHT OF LOWERED CURB SHALL BE 2.25 INCHES. SEE STD DWG RP-VC-10 & RP-VC-11.

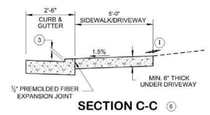
(4) THE SLOPE OF THE SIDEWALK AND/OR CURB HEIGHT TRANSITION VARIES TO A MAXIMUM OF 8.33% LENGTH OF TRANSITION IS RELATIVE TO THE LONGITUDINAL ROADWAY GRADE.

(5) COMMERCIAL DRIVEWAY ENTRANCE TYPICALLY (MAX. 40' WIDE) MAY REQUIRE DETECTABLE WARNING SURFACES IF ENTRANCE SERVES MORE THAN 400 VEHICLES PER DAY. SEE STD. DWG. NOS. MM-CR- SERIES FOR DETAILS.

(6) 3R PROJECTS MAY REQUIRE SLOPE CORRECTION, PARALLEL CROSS-WALK MARKINGS (ESPECIALLY AT TWO WAY DRIVEWAY ENTRANCES), AND DETECTABLE DOME SURFACE TO MAINTAIN CONTINUITY AT COMMERCIAL DRIVE ENTRANCES. ADDITIONAL SIGNS (WATCH FOR PED) MAY BE ADDED AT DRIVEWAYS BY THE DIRECTION OF AN ENGINEER IF NEEDED.

LEGEND

DIMENSION VARIES RELATIVE TO LONGITUDINAL ROADWAY GRADE.



SECTION C-C (6)

GENERAL NOTES

(A) DUE TO THE ELEVATION CHANGE FOR PEDESTRIANS ON THE SIDEWALK, THIS APPLICATION IS UNDESIRABLE AND IS TO BE USED IN LIMITED APPLICATIONS. SEE RP-D-15 FOR THE PREFERRED DRIVEWAY TYPE.

(B) 5'-0" MINIMUM SIDEWALK WITH A MAXIMUM CROSS SLOPE OF 1.5% THROUGH DRIVEWAYS.

(C) DESIGNER TO CHECK GUTTER FLOW DEPTH AT DRIVEWAY LOCATIONS TO ASSURE THAT THE DESIGN FLOW DOES NOT OVERTOP THE SIDEWALK AREA. IF OVERTOPPING OCCURS, PLACE AN INLET AT THE UPSTREAM SIDE OF THE DRIVEWAY OR PERFORM OTHER DESIGN MITIGATION

(D) THE SLOPE OF THE LANDING AREA SHALL NOT EXCEED 1.5% IN THE SIDEWALK AREA.

(E) DRIVEWAYS TO BE BUILT COMPLETE OR IN PART AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

(F) ALL CONCRETE DRIVEWAYS TO BE 6" UNIFORM THICKNESS, UNLESS OTHERWISE SHOWN ON PLANS.

(G) EXPANSION JOINTS TO BE PLACED AS INDICATED ON THE PLANS EXCEPT JOINT AT BACK OF DRIVEWAY WHICH WILL BE PLACED WHEN DRIVEWAY ABUTS A RIGID DRIVEWAY OR BUILDING.

(H) THE ROADWAY DESIGNER SHALL CONSIDER THE USE OF A CATCH BASIN ON EITHER SIDE OF DRIVEWAY. CAREFUL CONSIDERATION TO THE PLACEMENT OF CATCH BASINS SHALL BE TAKEN IF THE DRIVEWAY IS IN A VERTICAL SAG CURVE.

(I) ALGEBRAIC DIFFERENCE NOT TO EXCEED 19.0%.

(J) PAY ITEMS:

ITEM NO:	303-01,	MINERAL AGGREGATE, TYPE A BASE, GRADING D,	PER TON.,
ITEM NO:	701-01.01,	CONCRETE SIDEWALK (4"),	S.F.,
ITEM NO:	701-02,	CONCRETE DRIVERWAY,	S.F.,
ITEM NO:	702-03,	CONCRETE COMBINED CURB & GUTTER,	C.Y.

(K) WHEN MORE THAN 2 DRIVEWAYS ARE PROPOSED, USE TYPE "A" DRIVEWAY AS SHOWN ON STANDARD DRAWING RP-D-15 TO REDUCE ROLLER COASTER EFFECT FOR PEDESTRIANS.

(L) TYPICAL DRIVEWAY WIDTHS ARE 12' (14' TWO WAY) FOR RESIDENTIAL AND 24' (40' MAX.) FOR COMMERCIAL.

(M) REFER TO SECTION 5.1.3, IN THE MANUAL FOR CONSTRUCTING DRIVEWAY ENTRANCES ON STATE HIGHWAYS (2015) FOR RADIUS OF CURVATURE GUIDANCE.

(N) ALL SIDEWALKS SHALL HAVE A MINIMUM CONCRETE THICKNESS OF 4".

(O) 4 INCH AGGREGATE BASE MATERIAL SHALL BE INSTALLED UNDER NEW CONCRETE DRIVEWAYS.

REV. 7-15-06: UPDATED SIDEWALK DIMENSIONS.

☐ REV. 4-8-16 : ADDED ITEM NUMBERS. UPDATED SLOPES AND DIMENSIONS. UPDATED NOTES.

☐ REV. 07-16-18: ADDED NOTES TO CONC. FLARE AND GRASS FLARE IN ISOMETRIC VIEW. ADDED GENERAL NOTE (B) & (N).

REV. 01-07-19: ADDED LIMITS FOR ITEM NO. 701-02. ADJUSTED LOCATION OF GENERAL NOTE NOTE (J) & (N) ON DETAILS. REDREW SHEET.

REV. 10-16-20: ADDED GENERAL NOTE (O) MINERAL AGGREGATE ITEM NUMBER AND BASE MATERIAL ON SECTIONS B-B AND D-D.

☐ APPROVED BY FHWA
(ALL OTHERS APPROVED BY TDOT)

STATE OF TENNESSEE
STANDARD DRAWING
DEPARTMENT OF TRANSPORTATION

DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS

02-15-2007 | RP-D-16

NOT TO SCALE

10/16/2020 2:13:26 PM
C:\Users\jl056471\Desktop\STANDARDS\Standards Drawings Library\Standard Roadway Drawings - CURRENT\In Progress\10-104.00 Roadway, Pavement Appurtenances and Fence (P)\10-02 Intersections (P)\RP3-16-2

ISSUE FOR PERMIT 09-13-2022

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1	CONSTRUCTION	01-30-2023

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RAY G. FLAKE
REGISTERED PROFESSIONAL ENGINEER
AUTHORIZED AGENT
STATE OF TENNESSEE
01/30/2023

PANDA PROJECT #: D23503

PANDA EXPRESS

955 N. RIVERSIDE DRIVE
CLARKSVILLE, TN. 37040

TRUE WARM & WELCOME 2600-2022

HARDSCAPE DETAILS 3

C03.3

PANDA HOME 2600 R4

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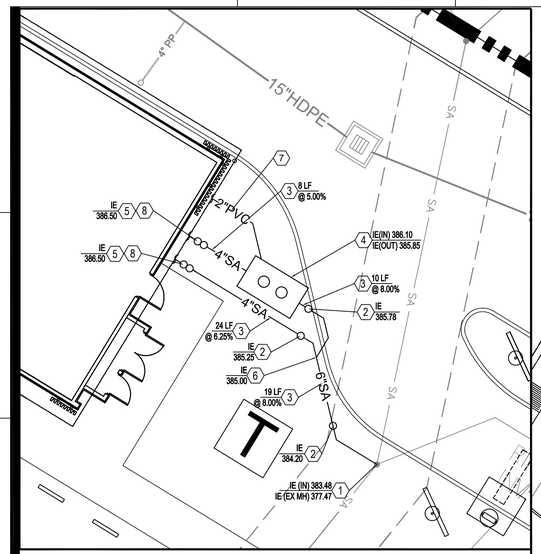


SANITARY SEWER AT BUILDING

SCALE 1"=10'

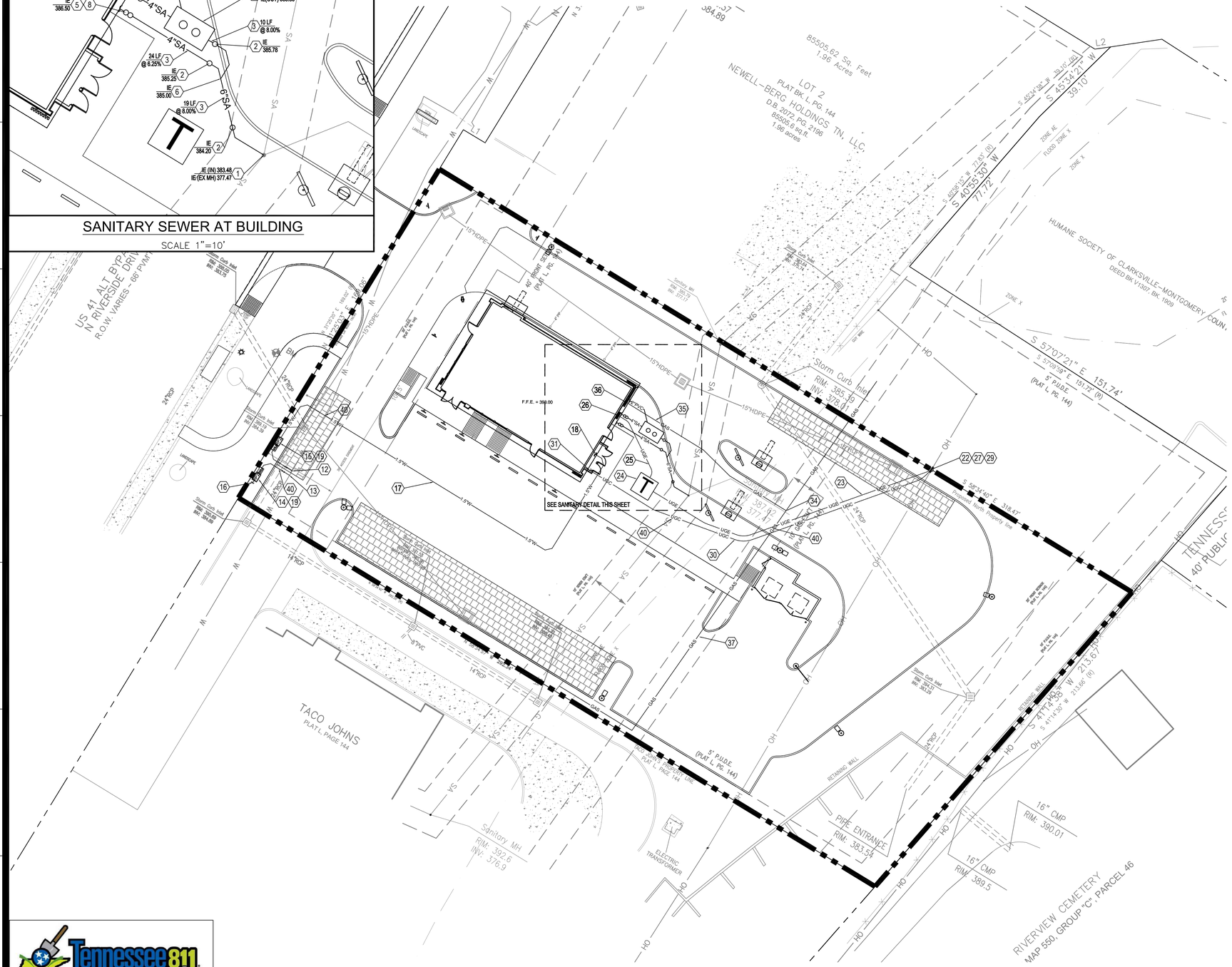
NOTE:

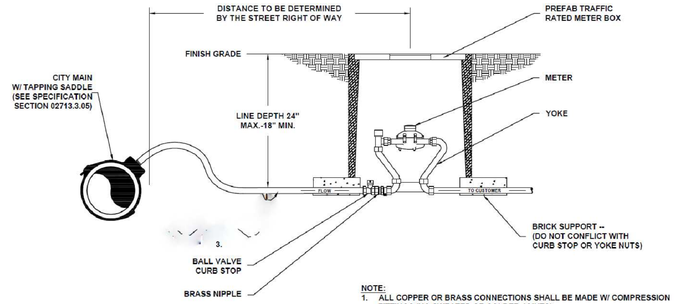
PROVIDE (2)-4" PVC CONDUITS UNDER DRIVES TO ALL LANDSCAPED AREAS. PROVIDE 2' COVER AND CAP OFF. MARK STUB OUT WITH FLAG/MARKER.

ALL LANDSCAPED AREAS TO BE IRRIGATED (IRRIGATION PLAN TO BE SUBBED OUT THRU G.C.) - SEE LANDSCAPE DRAWINGS FOR PLANTINGS AND DETAILS

SEE M.E.P. PLANS FOR ALL UTILITY SERVICE ENTRIES. LOCATIONS SHOWN ARE APPROXIMATE.

SEE CFT NV DEVELOPMENTS, LLC REAL PROPERTY PURCHASE AND SALE AGREEMENT AND JOINT ESCROW INSTRUCTIONS, EXHIBIT "D" TO REAL PROPERTY PURCHASE AGREEMENT FOR SELLERS WORK SCOPE ON SHEET C01.1


US 41 ALT BYP
N RIVERSIDE DRIVE
R.O.W. VARIES - 66' PVMT
24'ROP
15"HDPE
SA
W
S 45°34'21" W 39.10'
S 45°55'30" W 77.72'
S 45°34'21" W 39.10' (R)
S 45°55'15" W 77.81' (R)
85505.62 Sq. Feet 1.96 Acres
LOT 2
PLAT BK L, PG. 144
NEWELL-BERG HOLDINGS TN, LLC
D.B. 2072, PG. 2196
85505.6 sq.ft.
1.96 acres
HUMANE SOCIETY OF CLARKSVILLE-MONTGOMERY COUN
DEED BK V1307, BK. 1066
ZONE AE
FLOOD ZONE X
ZONE X
S 57°07'21" E 151.74'
S 57°07'59" E 151.72' (R)
5' P.U.D.E. (PLAT L, PG. 144)
Storm Curb Inlet RIM: 385.19 INV: 378.01
F.F.E. = 389.00
SEE SANITARY DETAIL THIS SHEET
S 59°34'40" E 318.43'
Retained North Property line
Storm Curb Inlet RIM: 383.31 INV: 376.24
Storm Curb Inlet RIM: 383.79 INV: 377.17
Storm Curb Inlet RIM: 383.31 INV: 376.24
Storm Curb Inlet RIM: 383.28 INV: 376.24
Storm Curb Inlet RIM: 383.28 INV: 376.24
Storm Curb Inlet RIM: 383.31 INV: 376.24
Storm Curb Inlet RIM: 383.28 INV: 376.24
Storm Curb Inlet RIM: 383.31 INV: 376.24
Storm Curb Inlet RIM: 383.28

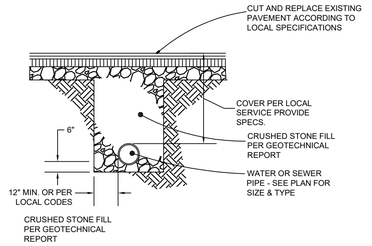


NOTE:
1. ALL COPPER OR BRASS CONNECTIONS SHALL BE MADE W/ COMPRESSION FITTINGS (NO SWEATED OR SOLDER JOINTS).
2. CITY IS TO SUPPLY FOLLOWING ITEMS ONLY:
   - PROPER METER W/ METER BOX
   - PROPER METER YOKE
3. SEE SPECIFICATION SECTION 02713.3.05 FOR MATERIAL AND INSTALLATION REQUIREMENTS NOT SHOWN

3/4" -1" METER SETUP DETAIL (NTS)

NOTE:
1. ALL COPPER OR BRASS CONNECTIONS SHALL BE MADE W/ COMPRESSION FITTINGS (NO SWEATED OR SOLDER JOINTS).
2. CITY IS TO SUPPLY FOLLOWING ITEMS ONLY:
   - PROPER METER W/ METER BOX
   - PROPER METER YOKE
3. SEE SPECIFICATION SECTION 02713.3.05 FOR MATERIAL AND INSTALLATION REQUIREMENTS NOT SHOWN.

1 1/2"-2" METER SETUP DETAIL (NTS)

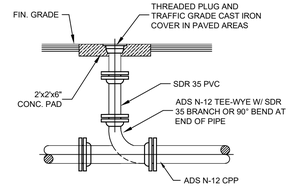


UTILITY TRENCH DETAIL

N.T.S.

NOTE:

IN GRASS AREAS WHERE NO PAVEMENT IS PROPOSED, CONCRETE BLOCK SHALL NOT BE CONSTRUCTED.



PRIVATE STORM SEWER CLEANOUT

N.T.S.

NOTE:

IN GRASS AREAS WHERE NO PAVEMENT IS PROPOSED, CONCRETE PAD SHALL NOT BE CONSTRUCTED.

PRIVATE SANITARY SEWER TWO WAY CLEANOUT

N.T.S.

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REVISIONS:

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1	CONSTRUCTION	01-30-2023

PANDA PROJECT #: D23503

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e-mail: ray@civilengineeringservices.net

RAY G. FLAKE — LICENSED PROFESSIONAL ENGINEER — AGRICULTURE — STATE OF TENNESSEE
01/30/2023

PANDA EXPRESS

955 N. RIVERSIDE DRIVE
CLARKSVILLE, TN. 37040

TRUE WARM & WELCOME 2600-2022

UTILITY DETAIL SHEET

C04.1

PANDA HOME 2600 R4

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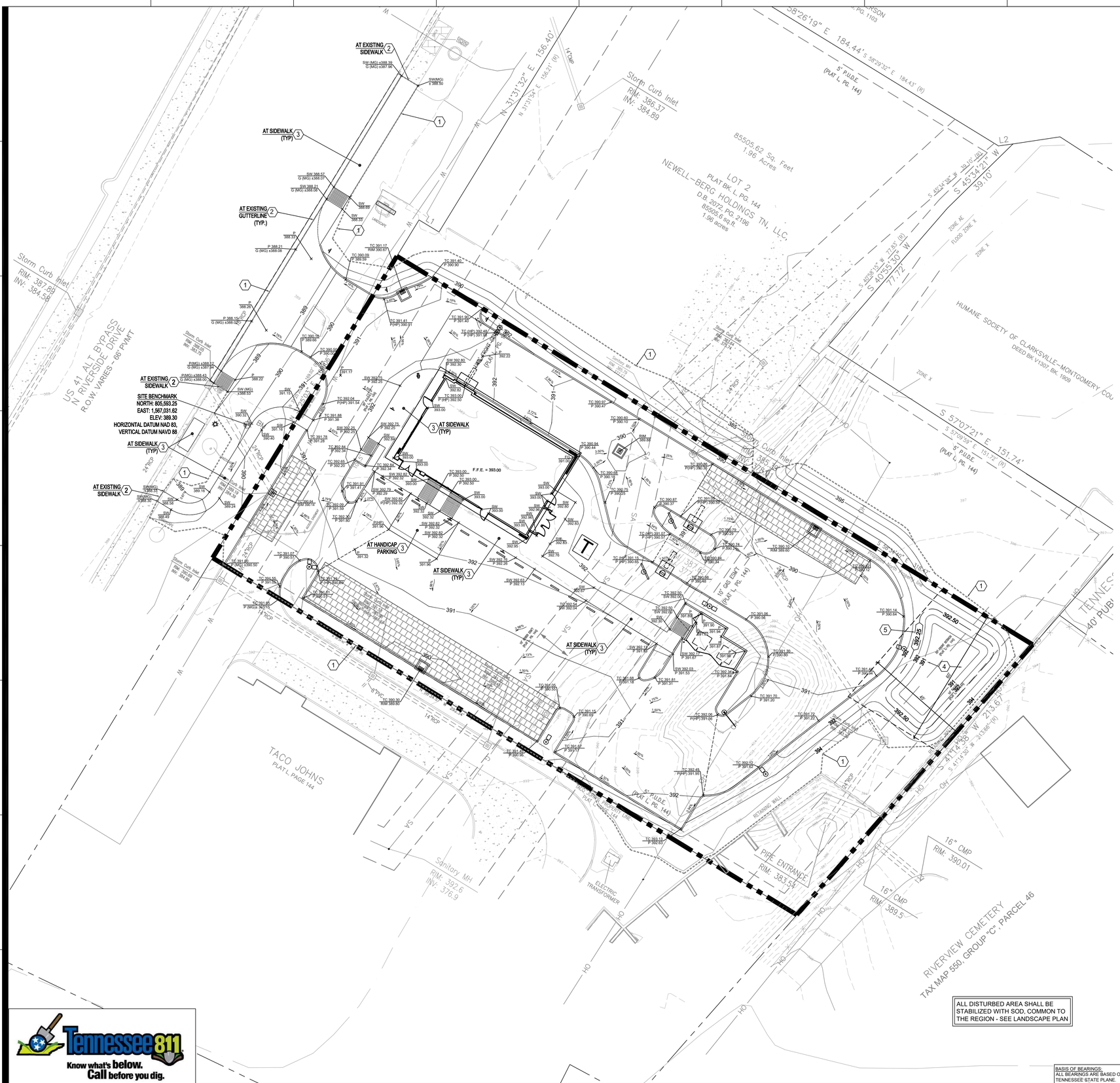

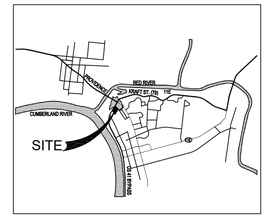

LOCATION MAP

NOT TO SCALE

PROPOSED GRADING LEGEND

TC	PROPOSED TOP OF CURB ELEVATION
P	PROPOSED BOTTOM OF CURB/PAVEMENT ELEVATION
G	PROPOSED GUTTER LINE ELEVATION
FG	PROPOSED FINISHED GRADE ELEVATION
SW	PROPOSED SIDEWALK ELEVATION
HP	PROPOSED HIGH POINT ELEVATION
MG	MATCH EXISTING GRADE ELEVATION
IE	PROPOSED INVERT ELEVATION
RIM	PROPOSED TOP OF GRATE ELEVATION
----------	LIMITS OF DISTURBANCE
2.00%	PROPOSED SLOPE DIRECTION
	PROPOSED STORM WATER CURB INLET
	PROPOSED STORM WATER AREA INLET

GRADING NOTE BLOCKS

1. LIMITS OF LAND DISTURBANCE
2. MATCH EXISTING GRADE
3. PROVIDE 2.00% MAXIMUM CROSS SLOPE
4. BIORETENTION AREA - SEE DETAIL SHEET (C05.2)
   TOP OF BANK ELEVATION = 392.50
   OVERFLOW WEIR ELEVATION = 392.25
   100-YEAR W.S.E = 392.25
5. 10' WIDE OVERFLOW WEIR ELEVATION = 392.25

GRADING NOTES

SEE SHEET C01.1 FOR GRADING NOTES

GRADING INFORMATION

LIMITS OF DISTURBANCE = 51,861 SF / 1.19 AC

CONSTRUCTION NOTE:
DESIGN OF THE PANDA EXPRESS SITE, AS SHOWN IN THESE PLANS, ARE BASED UPON THE PROPOSED CONSTRUCTION PLANS FOR THE SUBJECT PROPERTY AND SURROUNDING SITE WORK. CONTRACTOR SHALL FIELD VERIFY ELEVATIONS, UTILITIES, AND SITE FEATURES PRIOR TO ANY WORK DONE. NOTIFY OWNER/ENGINEER OF ANY CONFLICTS WITH DESIGN PRIOR TO ANY WORK DONE

Q50 NOTE:
THERE WILL BE NO INCREASE IN THE Q50 RUNOFF FROM THE DEVELOPMENT ONTO TDOT RIGHT OF WAY.

SEE CFT NV DEVELOPMENTS, LLC REAL PROPERTY PURCHASE AND SALE AGREEMENT AND JOINT ESCROW INSTRUCTIONS, EXHIBIT "D" TO REAL PROPERTY PURCHASE AGREEMENT FOR SELLERS WORK SCOPE ON SHEET C01.1

ALL DISTURBED AREA SHALL BE STABILIZED WITH SOD, COMMON TO THE REGION - SEE LANDSCAPE PLAN

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

Tennessee811
Know what's below.
Call before you dig.

BASIS OF BEARINGS:
ALL BEARINGS ARE BASED ON NAD'83, TENNESSEE STATE PLANE.

BM #1
TYPE: PK NAIL SET IN CURB
ELEVATION - 387.64
NORTHING - 805,593.25
EASTING - 1,567,031.62

FLOOD STATEMENT:
BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS IN ZONE(S) X, FLOOD ZONE X AND ZONE AE OF THE FLOOD INSURANCE RATE MAP NUMBER 47125C0236E WHICH BEARS AN EFFECTIVE DATE OF 01/15/2021 AND IS IN A SPECIAL FLOOD HAZARD AREA. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE AND A FLOOD ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION OR APPLY FOR A VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

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01/30/2023

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TRUE WARM & WELCOME 2600-2022

GRADING PLAN

C05.0

PANDA HOME 2600 R4

ISSUE FOR PERMIT 09-13-2022

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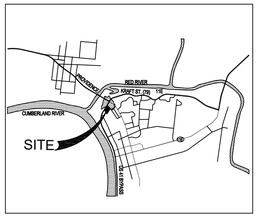
STORM SEWER PIPE SCHEDULE			
PIPE	SIZE & TYPE	LENGTH	SLOPE
ST-1	15"HDPE	99 LF	0.50%
ST-2	15"HDPE	111 LF	0.50%
ST-3	15" HDPE	86 LF	0.50%
ST-4	15" HDPE	95 LF	1.00%
ST-5	4" HDPE	55 LF	1.00%

STORM STRUCTURE TABLE				
STRUCTURE	TYPE	CASTING	INV IN	INV OUT
EX01	Existing Curb Inlet	390.14	384.39	384.39
CB02	Curb Inlet	390.67	384.89	384.89
AI03	Area Inlet	389.88	385.45	385.45
CB04	Curb Inlet	389.60	385.88	385.88
CB05	Curb Inlet	389.80	385.34	385.34
EX06	Existing Area Inlet	394.31	(4")386.70	383.29

** NOTES:
1. PIPE LENGTHS AND SLOPES ARE CALCULATED TO INSIDE FACE OF STRUCTURE
2. CASTING ELEVATION SHOWN FOR CURB INLET REPRESENTS GRADE AT PAVEMENT
3. PIPES AND STRUCTURES DESIGNATED WITH "EX" ARE EXISTING



LOCATION MAP
NOT TO SCALE

PROPOSED GRADING LEGEND

—— 15"CMP ——	PROPOSED POLYPROPLYENE STORM SEWER PIPE
.....	LIMITS OF DISTURBANCE
IE	PROPOSED INVERT ELEVATION
RIM	PROPOSED TOP OF GRATE ELEVATION
	PROPOSED STORM WATER CURB INLET
	PROPOSED STORM WATER AREA INLET

GENERAL GRADING NOTES
SEE SHEET C01.1 FOR GRADING NOTES

GRADING NOTE BLOCKS

1. PROVIDE STORM SEWER CLEANOUT - SEE INVERT ELEVATION SHEET (C05.0) - SEE DETAIL SHEET (C05.2)
2. PROVIDE CURB INLET - SEE THIS SHEET FOR ELEVATIONS - SEE DETAIL SHEET (C05.2)
3. PROVIDE STORM SEWER PIPE - SEE THIS SHEET FOR ELEVATIONS - SEE DETAIL SHEET (C05.2)
4. TIE TO ROOF DRAIN COLLECTOR FROM BUILDING - SEE PLUMBING PLANS FOR UNDERGROUND CONNECTION AT BUILDING - SEE ELEVATION THIS SHEET - OVERFLOW PIPE FROM ROOF DRAIN TO DAYLIGHT THROUGH FACE OF CURB - SEE PLUMBING PLANS AND FOR LOCATION
5. PROVIDE 4"X18"WATER TIGHT HDPE TEE PER MANUFACTURER SPECS. - SEE INVERT ELEVATION THIS SHEET
6. PROVIDE WATER TIGHT POLYETHYLENE PIPE FOR ROOF DRAINS - SEE THIS SHEET FOR SIZE, TYPE AND ELEVATIONS
7. TIE TO EXISTING STRUCTURE PER MANUFACTURER SPECS. - SEE THIS SHEET FOR ELEVATIONS
8. UNDERDRAIN BIORETENTION AREA - SEE DETAIL SHEET (C05.2)
9. RAISE RIM OF EXISTING STRUCTURE TO MATCH PROPOSED GRADE - SEE THIS SHEET FOR ELEVATIONS
10. PROVIDE AREA INLET - SEE THIS SHEET FOR ELEVATIONS - SEE DETAIL SHEET (C05.2)
11. BIORETENTION AREA - SEE DETAIL SHEET (C05.2)
    TOP OF BANK ELEVATION = 392.50
    OVERFLOW WEIR ELEVATION = 392.25
    100-YEAR W.S.E = 392.25
12. OLDCASTLE FLOGARD CATCH BASIN INSERT, MODEL FGP-2436FGO
13. UTILITY CROSSING PER SERVICE PROVIDER SPECS, SEE ELEVATIONS THIS SHEET
14. PERVIOUS PAVERS - SEE DETAIL SHEET (C03.2)
15. OUTLET STRUCTURE AT BIORETENTION - SEE ELEVATIONS SHTIS SHEET - SEE DETAIL SHEET (C03.2)
16. 4" PERFORATED HDPE WITH FILTER SOCK, SLOPE AT 1.00% MIN. - TIE TO CATCH BASIN OR TOP OF STORM SEWER PIPE - SEE THIS SHEET FOR LOCATION - SEE DETAIL SHEET (C03.2)

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Q50 NOTE:
THERE WILL BE NO INCREASE IN THE Q50 RUNOFF FROM THE DEVELOPMENT ONTO TDOT RIGHT OF WAY.

SEE CFT NV DEVELOPMENTS, LLC REAL PROPERTY PURCHASE AND SALE AGREEMENT AND JOINT ESCROW INSTRUCTIONS, EXHIBIT "D" TO REAL PROPERTY PURCHASE AGREEMENT FOR SELLERS WORK SCOPE ON SHEET C01.1

ALL DISTURBED AREA SHALL BE STABILIZED WITH SOD, COMMON TO THE REGION - SEE LANDSCAPE PLAN

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

BASIS OF BEARINGS:
ALL BEARINGS ARE BASED ON NAD'83, TENNESSEE STATE PLANE.

BM #1
TYPE: PK NAIL SET IN CURB
ELEVATION - 387.64
NORTHING - 805,593.25
EASTING - 1,567,031.62

FLOOD STATEMENT:
BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS IN ZONE(S) X, FLOOD ZONE X AND ZONE AE OF THE FLOOD INSURANCE RATE MAP NUMBER 47125C0236E WHICH BEARS AN EFFECTIVE DATE OF 01/15/2021 AND IS IN A SPECIAL FLOOD HAZARD AREA. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE AND A FLOOD ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION OR APPLY FOR A VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

Tennessee811 Know what's below. Call before you dig.

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91770
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Facsimile: 626.372.8288

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REVISIONS:

ISSUE DATE:

1	PERMIT/BID	09-13-2022
1	CONSTRUCTION	01-30-2023

ISSUE FOR PERMIT 09-13-2022

PANDA PROJECT #: D23503

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RAY G. FLAKE — REGISTERED PROFESSIONAL ENGINEER — AGRICULTURAL ENGINEER — STATE OF TENNESSEE

01/30/2023

PANDA EXPRESS

955 N. RIVERSIDE DRIVE
CLARKSVILLE, TN. 37040

TRUE WARM & WELCOME 2600-2022

DRAINAGE PLAN

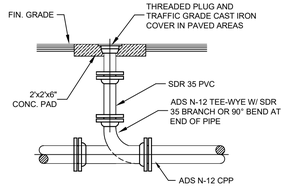
C05.1

ISSUE FOR PERMIT 09-13-2022

PANDA HOME 2600 R4

NOTE:

IN GRASS AREAS WHERE NO PAVEMENT IS PROPOSED, CONCRETE BLOCK SHALL NOT BE CONSTRUCTED.



PRIVATE STORM SEWER CLEANOUT

N.T.S.

Oldcastle Infrastructure
A CRH COMPANY

FLOGARD®
Catch Basin Insert Filter

Catch basin insert designed to capture sediment, gross solids, trash and petroleum hydrocarbons from low ("first flush") flows, even during the most extreme weather conditions

Example Types, Sizes and Capacities: Additional sizes, including regional and custom options are available.

FloGard Combination Inlet
SPECIFIER CHART

MODEL NO. STANDARD DEPTH	ST ANCHORED & SHALLOW DEPTH (Data in these columns is the same for both STANDARD & SHALLOW versions) INLET ID Inside Dimension (inch x inch)	GRADE OD Outside Dimension (width x width)	TOTAL BYPASS CAPACITY (cfs & L/sec)	STANDARD DEPTH 18 inches SOLIDS STORAGE CAPACITY (cu.ft.)	STANDARD DEPTH 18 inches FILTERED FLOW (cfs & L/sec)	MODEL NO. SHALLOW DEPTH	SHALLOW DEPTH 12 inches SOLIDS STORAGE CAPACITY (cu.ft.)	SHALLOW DEPTH 12 inches FILTERED FLOW (cfs & L/sec)
FGP-1618FSG	16 X 18	18 X 36	1.9	0.6	1.5	FGP-1618FSGSS	1.0	1.5
FGP-1836FSG	18 X 36	18 X 48	3.7	2.1	1.6	FGP-1836FSGSS	1.5	1.6
FGP-2136FSG	21 X 36	24 X 36	4.1	3.0	2.1	FGP-2136FSGSS	2.1	1.6
FGP-2436FSG	24 X 36	24 X 48	5.3	4.6	2.6	FGP-2436FSGSS	1.95	1.15

FloGard Flat Grated Inlet
SPECIFIER CHART

MODEL NO. STANDARD DEPTH	ST ANCHORED & SHALLOW DEPTH (Data in these columns is the same for both STANDARD & SHALLOW versions) INLET ID Inside Dimension (inch x inch)	GRADE OD Outside Dimension (width x width)	TOTAL BYPASS CAPACITY (cfs & L/sec)	STANDARD DEPTH 30 inches SOLIDS STORAGE CAPACITY (cu.ft.)	STANDARD DEPTH 30 inches FILTERED FLOW (cfs & L/sec)	MODEL NO. SHALLOW DEPTH	SHALLOW DEPTH 12 inches SOLIDS STORAGE CAPACITY (cu.ft.)	SHALLOW DEPTH 12 inches FILTERED FLOW (cfs & L/sec)
FGP-1518	14 X 15	17.5 X 18.5	2.4	0.9	0.4	FGP-1518S	0.5	0.4
FGP-1824	18 X 18	18 X 24	4.7	2.1	0.7	FGP-1824S	1.1	0.7
FGP-1836	18 X 36	18 X 48	4.9	3.0	1.5	FGP-1836FS	1.5	1.5
FGP-2124	21 X 23	23 X 24	5.1	3.2	1.5	FGP-2124S	1.25	1.5
FGP-2436	24 X 36	24 X 48	8.3	4.2	2.6	FGP-2436FS	1.95	1.15
FGP-2448P	24 X 48	24 X 48	9.9	6.4	2.6	FGP-2448FS	1.95	1.15
FGP-2448	24 X 48	24 X 48	9.3	4.6	2.6	FGP-2448FS	2.3	1.15
FGP-3024FN	29 X 29	33 X 33	9.3	3.6	4.5	FGP-3024FN	3.25	85
FGP-3036	29 X 35	33 X 39	8.1	4.5	4.5	FGP-3036	2.55	1.15
FGP-3648	35 X 35	39 X 48	9.1	4.5	2.4	FGP-3648	2.55	1.15
FGP-3648P	35 X 48	40 X 48	11.9	6.6	2.3	FGP-3648FS	3.5	1.15
FGP-48P	46 X 46	48 X 54	13.2	9.5	3.6	FGP-48FS	5.45	2.15
FGP-4836P	34 X 34	39 X 39	8.5	3.2	2.6	FGP-3636FS	1.9	1.5
FGP-3336P	29 X 34	34 X 39	8.0	3.4	2.6	FGP-3334FS	1.95	1.15

FloGard Circular Grated Inlet
SPECIFIER CHART

MODEL NUMBER	INLET ID (inches)	GRADE OD (inches)	SOLIDS STORAGE CAPACITY (CU.FT)	FILTERED FLOW (CSF)	TOTAL BYPASS CAPACITY (CFS)
FGP-RF15F	15	18	5.0	0.4	3.8
FGP-RF18F	18	20	9.8	0.7	4.7
FGP-RF20F	20	23	9.8	0.7	4.7
FGP-RF21F	21	23.5	9.8	0.7	4.7
FGP-RF23F	23	24	9.8	0.7	4.7
FGP-RF24F	24	26	9.8	0.7	4.7
FGP-RF30F	30	32	7.2	1.5	6.1
FGP-RF36F	35	39	3.6	2.9	8.1

Combination Inlet

Flat-Grated Inlet

Circular Frame Inlet

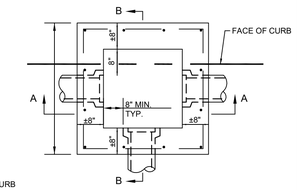
INLET FILTRATION

NOTE:

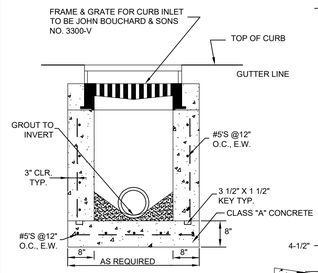
1. STORM WATER CURB INLET/AREA INLET TO HAVE ENVIRONMENTAL MESSAGE STAMPED INTO THE METAL"DUMP NO WASTE","DRAINS TO STREAM".

2. THE CONTRACTOR SHALL POUR THE INVERTS IN ALL STORM WATER STRUCTURES.

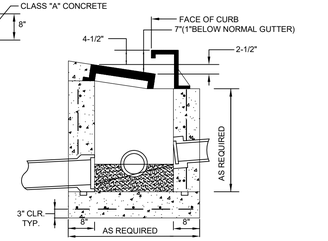
3. OPTIONAL CONSTRUCTION PRE-FAB. CONCRETE EQUIVALENT.



RAMP PLAN VIEW



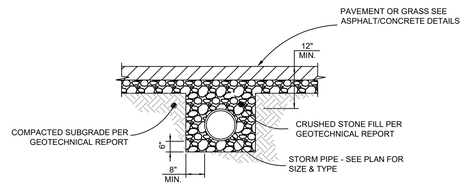
SECTION A-A



SECTION B-B

SINGLE CURB INLET

N.T.S.



STORM SEWER PIPE TRENCH DETAIL

N.T.S.

NOTE:

1. STORM WATER AREA INLET TO HAVE ENVIRONMENTAL MESSAGE STAMPED INTO THE METAL "DUMP NO WASTE", "DRAINS TO STREAM".

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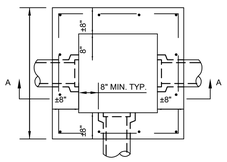
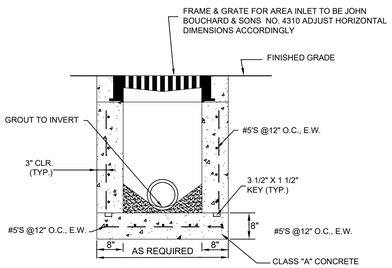
3. OPTIONAL CONSTRUCTION PRE-FAB. CONCRETE EQUIVALENT.



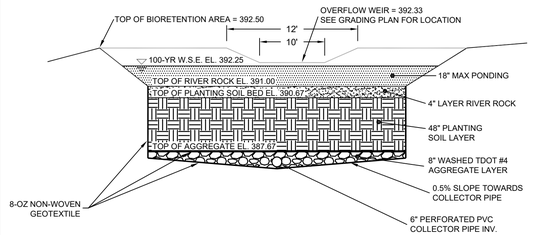
PLAN VIEW



SECTION A-A

AREA INLET

N.T.S.



BIORETENTION AREA SECTION

N.T.S.

ISSUE FOR PERMIT 09-13-2022

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91770
Telephone: 626.799.9898
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Phone: (615) 533-0401
e-mail: ray@civilengineeringservices.net

RAY G. FLAKE — REGISTERED PROFESSIONAL ENGINEER — AGRICULTURE & BIOSYSTEMS — STATE OF TENNESSEE

01/30/2023

PANDA EXPRESS

955 N. RIVERSIDE DRIVE
CLARKSVILLE, TN. 37040

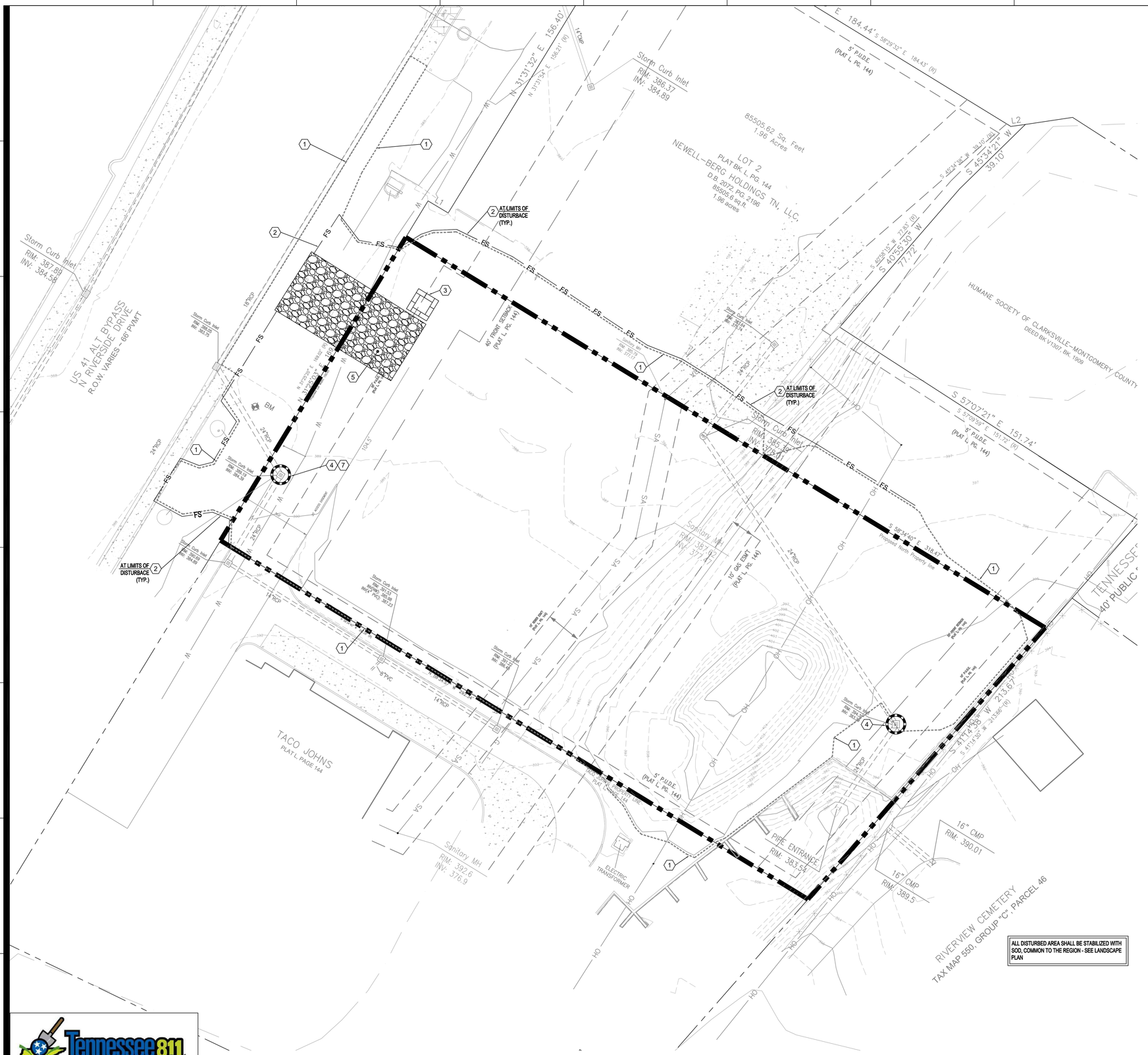
TRUE WARM & WELCOME 2600-2022

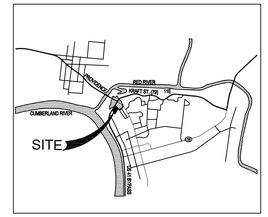
GRADING DETAIL SHEET

C05.2

PANDA HOME 2600 R4

ISSUE FOR PERMIT 09-13-2022





LOCATION MAP

NOT TO SCALE

PROPOSED LEGEND

- TEMPORARY CONSTRUCTION EXIT
- INSTALL INLET PROTECTION (SEE DETAIL SHEET)
- FS — INSTALL FILTER SOCK (SEE DETAIL SHEET)
- CONCRETE WASHOUT AREA
- LIMITS OF DISTURBANCE

KEYNOTES

1. LIMITS OF LAND DISTURBANCE
2. INSTALL FILTREXX FILTER SOCK SEDIMENT PROTECTION OR APPROVED EQUAL - MAINTAIN THROUGHOUT CONSTRUCTION - FIELD ADJUST AS REQUIRED - SEE DETAIL SHEET (C06.2)
3. CONCRETE WASHOUT PER EPA STANDARDS - CONTRACTOR TO FIELD ADJUST LOCATION ONSITE AS NEEDED - SEE DETAIL SHEET (C06.2)
4. INSTALL FILTREXX INLET PROTECTION OR APPROVED EQUAL - SEE DETAIL SHEET (C06.2)
5. EXISTING GRAVEL AREA TO BE UTILIZED AS THE CONSTRUCTION ENTRANCE
6. BIORETENTION AREA - SEE DETAIL SHEET (C05.2)
7. OLDCASTLE FLOGARD CATCH BASIN INSERT, MODEL FGP-2436FGO

EROSION CONTROL NOTES

SEE SHEET C1.1 FOR EROSION CONTROL NOTES

GRADING INFORMATION

LIMITS OF DISTURBANCE = 51,861 SF / 1.19 AC

SEE CFT NV DEVELOPMENTS, LLC REAL PROPERTY PURCHASE AND SALE AGREEMENT AND JOINT ESCROW INSTRUCTIONS, EXHIBIT "D" TO REAL PROPERTY PURCHASE AGREEMENT FOR SELLERS WORK SCOPE ON SHEET C01.1

BASIS OF BEARINGS:
ALL BEARINGS ARE BASED ON NAD'83, TENNESSEE STATE PLANE.

BM #1
TYPE: PK NAIL SET IN CURB
ELEVATION - 387.64
NORTHING - 805,593.25
EASTING - 1,567,031.62

FLOOD STATEMENT:
BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS IN ZONE(S) X, FLOOD ZONE X AND ZONE AE OF THE FLOOD INSURANCE RATE MAP NUMBER 47125C0223E WHICH BEARS AN EFFECTIVE DATE OF 01/15/2021 AND IS IN A SPECIAL FLOOD HAZARD AREA. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE AND A FLOOD ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION OR APPLY FOR A VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

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Call before you dig.

ISSUE FOR PERMIT 09-13-2022

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AGRICULTURE ZONE
No. 106084
STATE OF TENNESSEE
01/30/2023

PANDA EXPRESS

955 N. RIVERSIDE DRIVE
CLARKSVILLE, TN. 37040

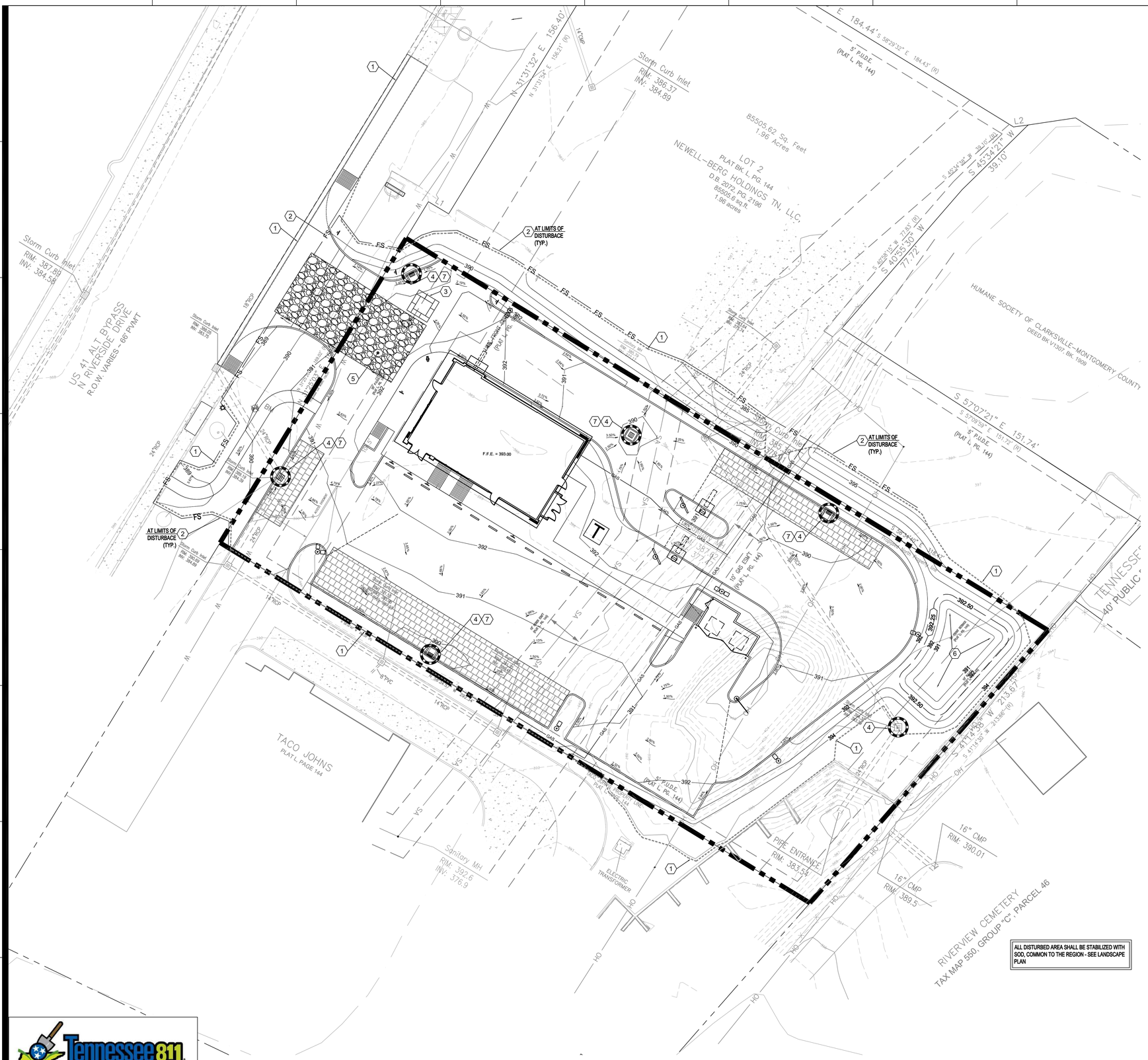
TRUE WARM & WELCOME 2600-2022

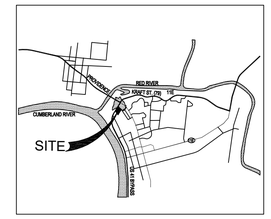
INITIAL EROSION CONTROL PLAN

C06.0

ISSUE FOR PERMIT 09-13-2022

PANDA HOME 2600 R4





LOCATION MAP

NOT TO SCALE

PROPOSED LEGEND

- TEMPORARY CONSTRUCTION EXIT
- INSTALL INLET PROTECTION (SEE DETAIL SHEET)
- FS — INSTALL FILTER SOCK (SEE DETAIL SHEET)
- CONCRETE WASHOUT AREA
- LIMITS OF DISTURBANCE

KEYNOTES

1. LIMITS OF LAND DISTURBANCE
2. INSTALL FILTREXX FILTER SOCK SEDIMENT PROTECTION OR APPROVED EQUAL - MAINTAIN THROUGHOUT CONSTRUCTION - FIELD ADJUST AS REQUIRED - SEE DETAIL SHEET (C06.2)
3. CONCRETE WASHOUT PER EPA STANDARDS - CONTRACTOR TO FIELD ADJUST LOCATION ONSITE AS NEEDED - SEE DETAIL SHEET (C06.2)
4. INSTALL FILTREXX INLET PROTECTION OR APPROVED EQUAL - SEE DETAIL SHEET (C06.2)
5. EXISTING GRAVEL AREA TO BE UTILIZED AS THE CONSTRUCTION ENTRANCE
6. BIORETENTION AREA - SEE DETAIL SHEET (C05.2)
7. OLDCASTLE FLOGARD CATCH BASIN INSERT, MODEL FGP-2436FGO

EROSION CONTROL NOTES

SEE SHEET C1.1 FOR EROSION CONTROL NOTES

GRADING INFORMATION

LIMITS OF DISTURBANCE = 51,861 SF / 1.19 AC

THE CONSTRUCTION SCHEDULE FOR THE EROSION CONTROL PLAN IS AS FOLLOWS:

1. INSTALL TEMPORARY CONSTRUCTION ENTRANCE, STORM INLET PROTECTIONS AND PERIMETER EROSION CONTROLS (SILT FENCE OR FILTERSOXX) AS SHOWN ON THE INITIAL EROSION CONTROL PLAN.
2. BEGIN EARTH MOVING ACTIVITIES TO ESTABLISH SUBGRADE.
3. CONSTRUCT/INSTALL ALL UNDERGROUND UTILITIES AND STORM SEWER, INCLUDING STORM INLET PROTECTION DEVICES.
4. INSTALL CONCRETE WASHOUT AREA.
5. CONSTRUCT COMMERCIAL BUILDING.
6. PERFORM CONCRETE PAVING ACTIVITIES.
7. PERFORM ASPHALT PAVING ACTIVITIES.
8. INSTALL LANDSCAPING IN LANDSCAPED AREAS AND STABILIZE ALL DISTURBED AREAS WITH VEGETATION.
9. REMOVE TEMPORARY EROSION CONTROL DEVICES ONLY ONCE A HARDY STAND OF VEGETATION HAS BEEN ESTABLISHED.
10. CEASE WEEKLY INSPECTIONS.
11. COMPLETE AND SUBMIT NOTICE OF TERMINATION (NOT) FORM TO TDEC.

SEE CFT NV DEVELOPMENTS, LLC REAL PROPERTY PURCHASE AND SALE AGREEMENT AND JOINT ESCROW INSTRUCTIONS, EXHIBIT "D" TO REAL PROPERTY PURCHASE AGREEMENT FOR SELLERS WORK SCOPE ON SHEET C01.1

ALL DISTURBED AREA SHALL BE STABILIZED WITH SOD, COMMON TO THE REGION - SEE LANDSCAPE PLAN

DATE

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

BASIS OF BEARINGS:
ALL BEARINGS ARE BASED ON NAD'83, TENNESSEE STATE PLANE.

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TYPE: PK NAIL SET IN CURB
ELEVATION - 387.64
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PANDA EXPRESS · CHINESE KITCHEN

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e-mail: ray@civilengineeringservices.net

RAY G. FLAKE
REGISTERED PROFESSIONAL ENGINEER
AGRICULTURE ZONE
OCT. 2006
No. 109084
STATE OF TENNESSEE
01/30/2023

PANDA EXPRESS

955 N. RIVERSIDE DRIVE
CLARKSVILLE, TN. 37040

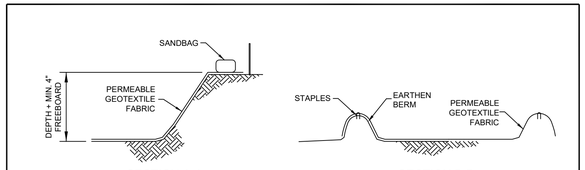
TRUE WARM & WELCOME 2600-2022

FINAL EROSION CONTROL PLAN

C06.1

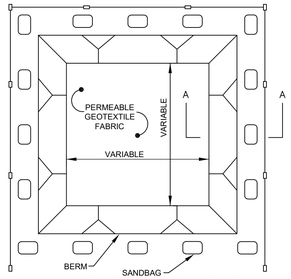
PANDA HOME 2600 R4

ISSUE FOR PERMIT 09-13-2022

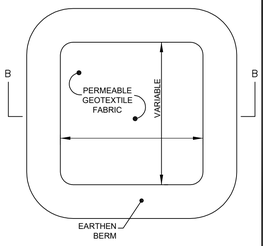


SECTION A-A
N.T.S.

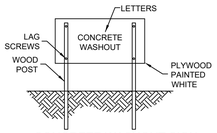
SECTION B-B
N.T.S.



PLAN VIEW TYPE "BELOW GRADE"
N.T.S.



PLAN VIEW TYPE "ABOVE GRADE" WITH EATHEN BERMS
N.T.S.



CONCRETE WASHOUT SIGN (OR EQUIVALENT)
N.T.S.

NOTES:

1. ACTUAL LAYOUT DETERMINED IN THE FIELD.

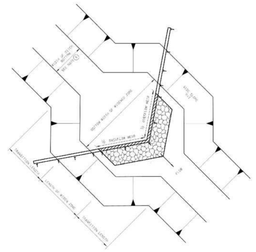
2. SIGNAGE IDENTIFYING THE CONCRETE WASHOUT AREA SHALL BE INSTALLED WITHIN 5FT.OF THE WASHOUT FACILITY.

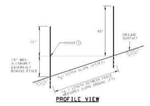
CONCRETE WASHOUT
N.T.S.

STATION (LT or RT)	A (FT)	X1 (FT)	X2 (FT)	OVERFLOW WEIR LENGTH (FT)	TOTAL LENGTH OF ESF (FT)	WIDENED ZONE				
						BOTTOM WIDTH (FT)	SLOPE (H:V)	LENGTH (FT)	TRANSITION RATIO	TRANSITION LENGTH (FT)

(1) REFER TO STD. DWG. EC-STR-4 OR EC-STR-4A

SLOPE STEEPNESS (H:V)	RECOMMENDED SPACING (ft.) OF ENHANCED SILT FENCE CHECKS (ft.)
2:1	10
3:2	15
2:1	20
3:1	30
FLAT OR LESS THAN 3:1	75





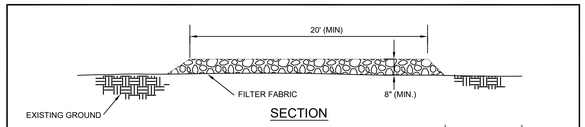
SPACING FOR ENHANCED SILT FENCE CHECKS

ENHANCED SILT FENCE CHECK GENERAL NOTES

1. ENHANCED SILT FENCE CHECKS ARE USED TO REDUCE SEDIMENT LOADING WITHIN A LONG SILT FENCE RUN BY CREATING SMALL SEDIMENT TRAPS AT REGULAR INTERVALS. ENHANCED SILT FENCE CHECKS SHOULD NOT BE PLACED ON STREAMS OR OTHER FLOWING WATER ENVIRONMENTS.
2. IT MAY BE NECESSARY TO PLACE TWO ENHANCED SILT FENCE CHECKS WITHIN THE SAME BOTTOM WIDTH TO THE SPACING SHOWN IN THE TABLE ABOVE. REFER TO THE TABLE FOR THE MAXIMUM SLOPE STEEPNESS ALLOWED FOR USE OF A SINGLE ENHANCED SILT FENCE CHECK.
3. FOR LESS SEVERE, UNCOLLATERED GROUNDWATER FLOW CONDITIONS (NO EMBEDDED SOILS EXISTS) CHECK LOCALS IN TRANSITIONS, DEPRESSIONS AND BOTTOMS AS FOR STANDARD SILT FENCE CHECKS (SEE EC-STR-4 DETAIL).
4. FOR THE DURATION OF THE CONSTRUCTION SITE, CHECK ALL SILT FENCES AND ENHANCED SILT FENCE CHECKS AFTER EACH RAIN EVENT AND MAKE ANY NECESSARY REPAIRS IMMEDIATELY.
5. UPON REMOVAL OF THE ENHANCED SILT FENCE CHECK, THE AREA SHALL BE IMMEDIATELY RESTORED TO MATCH THE SURROUNDING GRADE AND SEEDED OR PLANTED AS REQUIRED BY THE PLANS OR PERMIT. ANY SEDIMENT REMAINING IN PLACE AT THE TIME OF REMOVAL SHALL BE SPREAD OUT AND STABILIZED WITH THE DISTURBED AREA.

ENHANCED SILT FENCE CHECK DETAILS

EC-STR-4B



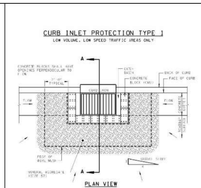
PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION EXIT AND PUBLIC ROADWAY.

CONSTRUCTION SPECIFICATIONS:

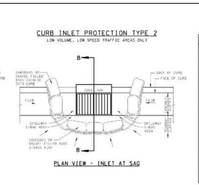
1. -STONE SIZE - USE 2" TO 4" CRUSHED STONE.
2. -LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 100'.
3. -THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
4. -WIDTH - AS EFFECTIVE, BUT NOT LESS THAN 20'
5. -WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS, OR OTHER APPROVED METHODS.
6. -MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

CONSTRUCTION ENTRANCE/EXIT
N.T.S.

CURB INLET PROTECTION TYPE 1
LOW VOLUME, LOW SPEED TRAFFIC AREAS ONLY

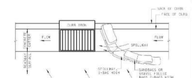


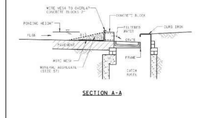
CURB INLET PROTECTION TYPE 2
LOW VOLUME, LOW SPEED TRAFFIC AREAS ONLY

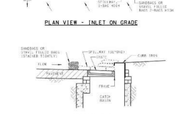


CURB INLET PROTECTION TYPE 1 GENERAL NOTES

CURB INLET PROTECTION TYPE 2 GENERAL NOTES





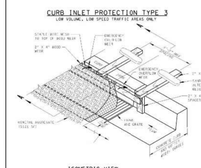


EROSION CONTROL PLAN LEGEND: CURB INLET PROTECTION (TYPE 1) EROSION CONTROL PLAN LEGEND: CURB INLET PROTECTION (TYPE 2)

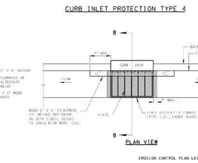
CURB INLET PROTECTION TYPE 1 & 2

EC-STR-3B

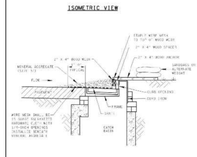
CURB INLET PROTECTION TYPE 3
LOW VOLUME, LOW SPEED TRAFFIC AREAS ONLY



CURB INLET PROTECTION TYPE 4



EROSION CONTROL PLAN LEGEND: CURB INLET PROTECTION (TYPE 4)



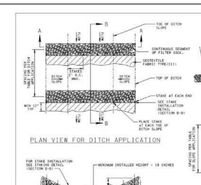
CURB INLET PROTECTION TYPE 3 GENERAL NOTES

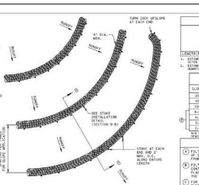
CURB INLET PROTECTION TYPE 4 GENERAL NOTES

EROSION CONTROL PLAN LEGEND: CURB INLET PROTECTION (TYPE 3)

CURB INLET PROTECTION TYPE 3 & 4

EC-STR-3A





FILTER SOCK CHECK DAM ESTIMATED QUANTITIES

FILTER SOCK SPACING FOR SLOPE APPLICATIONS

FILTER SOCK SPACING FOR DITCH APPLICATIONS

DITCH SLOPE	MAXIMUM FILTER SOCK SPACING
LESS THAN 2%	80'
2%	60'
3%	40'
4%	30'
5%	20'
GREATER THAN 5%	10'

SEE DETAIL ON SHEET EC-STR-3B FOR ADDITIONAL DISTANCE OF TRAVEL FOR SLOPES OVERSIZED FOR LENGTH

SOCK WEIGHTS INSTALLED

NOMINAL DIAMETER, D	INSTALLED WEIGHT LBS PER FOOT	INSTALLED WEIGHT LBS PER STRAND FOOT
8"	4.5"	N/A
12"	4.5"	18"
18"	14.5"	29"
24"	19"	38"

MINIMUM SPECIFICATION FOR FILTER MEDIA

PROPERTY	UNITS	RANGE
pH	pH	5.0 - 8.5
MOISTURE CONTENT	% DRY WEIGHT BASIS	< 30
ORGANIC MATTER CONTENT	% DRY WEIGHT BASIS	25 - 100
PHYSICAL CONTAMINANTS	% DRY WEIGHT BASIS	< 5
PARTICLE SIZE	% PASSING SCREEN MESH SIZE, DRY WEIGHT BASIS	5 INCH - 95% 3 INCH - 90% MIN. PARTICLE SIZE 2 INCHES

NOTE: MANUFACTURER SPECIFICATION MAY BE SUBSTITUTED WITH THE APPROVAL OF ENGINEER.

FILTER SOCK GENERAL NOTES

FILTER SOCK JOINT DETAIL (FOR SLOPE APPLICATION ONLY)

FILTER SOCK STACKING DETAIL

EROSION CONTROL PLAN LEGEND: FILTER SOCK

EC-STR-3

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

ISSUE DATE:

1	PERMIT/BID	09-13-2022
1	CONSTRUCTION	01-30-2023

ISSUE FOR PERMIT 09-13-2022

PANDA PROJECT #: D23503

Civil Engineering Services
Engineering, Land Planning, and Environmental
7705 Spicer Farm Lane
Fairview, Tennessee
37062
Phone: (615) 533-0401
e-mail: ray@civilengineeringservices.net

RAY G. FLAKE — REGISTERED PROFESSIONAL ENGINEER — STATE OF TENNESSEE — 01/30/2023

PANDA EXPRESS

955 N. RIVERSIDE DRIVE
CLARKSVILLE, TN. 37040

TRUE WARM & WELCOME 2600-2022

EROSION CONTROL DETAILS

C06.2

PANDA HOME 2600 R4

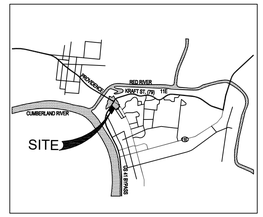
ISSUE FOR PERMIT 09-13-2022

CONSTRUCTION NOTE:
DESIGN OF THE PANDA EXPRESS SITE, AS SHOWN IN THESE PLANS, ARE BASED UPON THE PROPOSED CONSTRUCTION PLANS FOR THE SUBJECT PROPERTY AND SURROUNDING SITE WORK. CONTRACTOR SHALL FIELD VERIFY ELEVATIONS, UTILITIES, AND SITE FEATURES PRIOR TO ANY WORK DONE. NOTIFY OWNER/ENGINEER OF ANY CONFLICTS WITH DESIGN PRIOR TO ANY WORK DONE

SEE CFT NV DEVELOPMENTS, LLC REAL PROPERTY PURCHASE AND SALE AGREEMENT AND JOINT ESCROW INSTRUCTIONS, EXHIBIT "D" TO REAL PROPERTY PURCHASE AGREEMENT FOR SELLERS WORK SCOPE ON SHEET C01.1

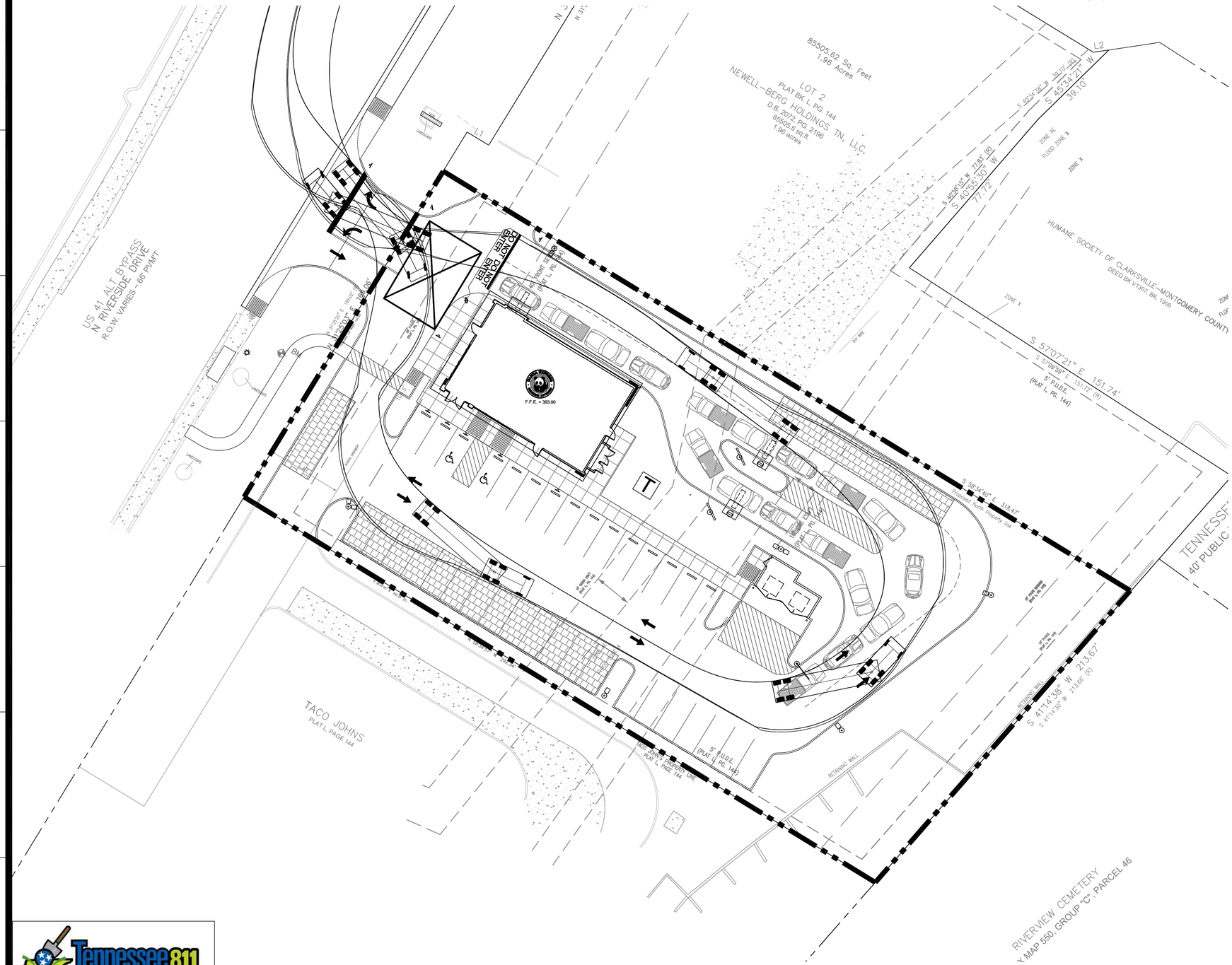
PROPOSED SITE LEGEND

- (8) PARKING STALL COUNT - SEE PLANS
- LIGHT DUTY CONCRETE PAVING - SEE DETAIL SHEET SECTION (C03.1)
- HEAVY DUTY CONCRETE PAVING - SEE DETAIL SHEET SECTION (C03.1)
- CONCRETE SIDEWALK - SEE DETAIL SHEET (C03.1)
- CONCRETE PAVING AT DUMPSTER ENCLOSURE, DRIVE THRU, AND PARKING ALONG BUILDING PER GEOTECHNICAL REPORT
- HANDICAP PARKING
- DIRECTIONAL ARROWS
- PROPOSED CURB AND GUTTER AT CONCRETE - MONOLITHIC AT CONCRETE PAVEMENT - SEE DETAIL SHEET (C03.1)
- LIGHT POLE - SEE PHOTO METRIC PLAN - SEE LIGHT POLE BASE ON DETAIL SHEET (C03.1)



LOCATION MAP
NOT TO SCALE

GENERAL NOTES
SEE NOTES ON SHEET C01.1


US 41 ALT BYPASS
N RIVERSIDE DRIVE
R.O.W. VARIES - 66' PVMT
85505.62 Sq. Feet
1.96 Acres
LOT 2
PLAT BK L PG. 144
NEWELL-BERG HOLDINGS TN, LLC.
D.B. 2072, PG. 2196
85505.6 sq.ft
1.96 acres
DO NOT ENTER
DO NOT ENTER
F.F.E. = 393.00
S 45°34'21" W 39.10'
S 40°55'30" W 77.72'
S 57°07'21" E 151.74'
S 58°44'40" E 318.43'
HUMANE SOCIETY OF CLARKSVILLE-MONTGOMERY COUNTY
DEED BK.V1307, BK. 1909
TENNESSEE
40' PUBLIC
TACO JOHNS
PLAT L PAGE 144
RIVERVIEW CEMETERY
Y MAP 550, GROUP "C", PARCEL 46
RETAINING WALL
5' P.U.D.E. (PLAT L PG. 144)
ZONE X
ZONE AE
FLOOD ZONE X
ZONE X
FLOOD ZONE X
ZONE X
ZONE X

PANDA EXPRESS LANDSCAPE NOTES:

1. WHEN APPLICABLE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING TREES TO REMAIN. NO HEAVY EQUIPMENT SHOULD BE PERMITTED TO OPERATE OR BE STORED, NOR ANY MATERIALS TO BE HANDLED OR STORED, WITHIN THE DRIPLINES OF TREES OUTSIDE THE LIMIT OF GRADING.
2. THE QUANTITIES INDICATED ON THE PLANT LIST AND PLAN ARE PROVIDED FOR THE BENEFIT OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY CALCULATIONS AND THE LIABILITY WHICH PERTAINS TO THOSE QUANTITIES AND TO ANY RELATED CONTRACT DOCUMENTS AND/OR PRICE QUOTATIONS. QUESTIONS SHOULD BE DIRECTED TO THE LANDSCAPE ARCHITECT.
3. ALL PLANT MATERIALS SHALL BE NURSERY GROWN, GRADE "A" QUALITY, UNLESS OTHERWISE NOTED AND SHALL COMPLY WITH THE AMERICAN STANDARD FOR NURSERY STOCK: ANSI Z-60.1; LATEST EDITION, FOR SIZE AND QUALITY.
4. NO SUBSTITUTIONS AS TO TYPE, SIZE, OR SPACING OF PLANT MATERIALS SPECIFIED ON THIS PLAN MAY BE MADE WITHOUT THE APPROVAL OF THE LANDSCAPE ARCHITECT. KITA SUSTAINABLE DESIGNS, LLC (615) 469-1222.
5. THE CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES AND TO PROTECT UTILITIES THAT ARE TO REMAIN. THE CONTRACTOR SHALL REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
6. STABILIZE ALL DISTURBED AREAS WITH SOD. PRIOR TO INSTALLATION, CONTRACTOR TO COORDINATE WITH PANDA EXPRESS PROJECT MANAGER TO VERIFY SOD TYPE TO BE USED. ROLL ALL SOD AFTER PLACING.
7. SOIL USED FOR PLANTING SHALL CONSIST OF (5) PARTS TOPSOIL, (1) PART SAND AND (2) PARTS ORGANIC MATTER, MIXED WITH I POUND OF FERTILIZER PER CUBIC YARD.
   A. SAND SHALL BE CLEAN MASONRY SAND.
   B. ORGANIC MATTER SHALL BE PEAT MOSS, OR WELL COMPOSTED PINE BARK, OR APPROVED EQUAL AND SHALL BE FINELY GROUND AND FREE OF WEEDS.
   C. ALL FERTILIZER SHALL BE 10-10-10 WITH MINOR ELEMENTS. FERTILIZER SHALL HAVE 40-50% OF ITS TOTAL NITROGEN IN A WATER INSOLUBLE FORM.
8. PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL PLANT BEDS AND SOD AREAS PRIOR TO INSTALLATION. TREFLAN OR AN APPROVED EQUAL SHALL BE USED.
9. ALL PLANT BEDS SHALL HAVE A MINIMUM OF 3" DEEP MULCH. MULCH SHALL BE RIVER ROCK (OR LOCAL EQUAL), 1" - 1.5" DIAMETER STONE.
10. IT IS THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO CONFIRM MATERIAL QUANTITIES. IN THE EVENT OF A DISCREPANCY, THE QUANTITIES SHOWN ON THE PLAN SHALL TAKE PRECEDENCE OVER QUANTITIES SHOWN ON THE PLANT LIST.
11. PRIOR TO FINAL PAYMENT, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE OWNER WITH COMPLETE WRITTEN INSTRUCTIONS ON PROPER CARE OF ALL SPECIFIED PLANT MATERIALS.
12. THE LANDSCAPE INSTALLATION SHALL BE COORDINATED WITH THE IRRIGATION INSTALLATION WHEN APPLICABLE. IRRIGATION TO BE DESIGN-BUILD BY THE G.C.
13. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM STRUCTURES AND TAKE SPECIAL CARE TO INSURE THAT BED PREPARATION DOES NOT INHIBIT DRAINAGE.
14. ALL LAWN AREAS SHALL BE CULTIVATED TO A DEPTH OF 4" PRIOR TO SODDING. PREPARED TURF BEDS SHALL BE FREE FROM STONES OVER 2" DIAMETER, WEEDS AND OTHER DELETERIOUS MATERIAL.
15. THE LANDSCAPE CONTRACTOR SHALL RAKE SMOOTH ALL SOD AREAS PRIOR TO INSTALLATION.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFILLING BEHIND THE CURB SO GRADE IS LEVEL WITH TOP OF CURB.
17. CUT AWAY ROPES OR WIRES FROM B&B PLANTS. PULL BACK BURLAP FROM TOP OF ROOT BALL. DO NOT ALLOW BURLAP TO BE EXPOSED AT SURFACE. TOTALLY REMOVE BURLAP IF IT IS SYNTHETIC.
18. IF CONTAINER GROWN PLANTS SHOW SIGNS OF BEING ROOT BOUND, SCORE ROOTS VERTICALLY.
19. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
20. ALL REPLACEMENTS SHALL BE OF THE SAME TYPE, SIZE, AND QUALITY AS SPECIFIED ON THE PLANT LIST, UNLESS APPROVED OTHERWISE IN WRITING BY THE LANDSCAPE ARCHITECT.
21. ANY MATERIAL THAT IS DEEMED TO BE 25% DEAD OR MORE SHALL BE CONSIDERED DEAD, AND MUST BE REPLACED AT NO CHARGE. A TREE IS CONSIDERED DEAD WHEN THE MAIN LEADER HAS DIED BACK, OR MORE THAN 25% OF THE CROWN IS DEAD.
22. REPLACEMENTS SHALL BE MADE DURING THE NEXT PLANTING SEASON UNLESS THE LANDSCAPE CONTRACTOR AGREES TO AN EARLIER DATE.
    PLANTING DATES
    SPRING: MARCH 15 - APRIL 15
    FALL: OCTOBER 1 - NOVEMBER 30
23. THE LANDSCAPE CONTRACTOR WILL NOT BE RESPONSIBLE FOR PLANT MATERIAL THAT HAS BEEN DAMAGED BY VANDALISM, FIRE, RELOCATION, WILDLIFE, THEFT, OR OTHER ACTIVITIES BEYOND THE LANDSCAPE CONTRACTOR'S CONTROL.
24. GENERAL CONTRACTOR TO COORDINATE AND BE RESPONSIBLE FOR WATERING ALL PLANTS AND TURF AREAS AFTER PLANTING UNTIL IRRIGATION SYSTEM IS OPERABLE.
25. CONTRACTOR TO IRRIGATE ALL NEW LANDSCAPE PLANTINGS AND LAWN AREAS WITH AN AUTOMATED UNDERGROUND IRRIGATION SYSTEM. IRRIGATION SYSTEM TO BE DESIGN-BUILD BY G.C.
26. IRRIGATION TO HAVE A SEPARATE METER.
27. PLANT MATERIAL SHALL BE APPROPRIATE FOR THE APPLICABLE USDA PLANT HARDINESS ZONE.
28. SPECIES MUST MEET BOTH MINIMUM CALIPER OR GALLON SIZE AND HEIGHT IF LISTED.
29. LANDSCAPE CONTRACTOR TO MAINTAIN LANDSCAPING FOR 60 DAYS AFTER TURNOVER. MAINTENANCE SHALL INCLUDE MOWING, EDGING AND TRIMMING SHRUBS

LANDSCAPE BED NOTES:

1. ALL LANDSCAPE BEDS SHOULD BE PREPARED 3" BELOW GRADE PRIOR TO START.
2. APPLY PRE-EMERGENT TO ALL LANDSCAPE BEDS AS SUGGESTED PER MANUFACTURER'S SPECIFICATIONS. (SEE NOTE #8).
3. APPLY PERMEABLE WEED BARRIER TO ALL LANDSCAPE BEDS.
4. INSTALL RIVER ROCK MUCH (OR LOCAL EQUAL) (1" - 1.5" DIAMETER), APPROXIMATELY 3" DEEP IN ALL LANDSCAPE BEDS OVER WEED BARRIER.

LANDSCAPE CALCULATIONS

	REQUIRED	PROVIDED
NORTH PERIMETER		227'
1 TREE/50'	4.5	5
NO SHRUBS REQUIRED		
EAST PERIMETER - (TRENTON ROAD)		141'
1 TREE/50'	2.8	3
NO SHRUBS REQUIRED		
SOUTH PERIMETER		200'
1 TREE/50'	4.0	4
NO SHRUBS REQUIRED		
WEST PERIMETER		107'
1 TREE/50'	2.1	2
10 SHRUBS/100'	10.7	14
VUA - INTERIOR LANDSCAPING		
PARKING AREA:		26,711 SF
LANDSCAPE AREA: (5% MIN.)	1,336 SF	3,275 SF
PARKING SPACES:		35
1 TREE/15 SPACES	2.3	3

KITA designs
Beauty | Economy | Sustainability

Kevin Reff, RLA
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2101 Masters Drive
Springfield, TN 37172
(615) 469 - 1222 Ofc.
(615) 594 - 7333 Cell.
kreff@kitadesign.biz

CITY OF CLARKSVILLE LANDSCAPE NOTES

1. THE OWNER SHALL SUBMIT A CERTIFICATE OF LANDSCAPE COMPLIANCE TO THE BUILDING AND CODES DEPARTMENT UPON COMPLETION OF THE LANDSCAPE INSTALLATION.
2. UPON SUBMITTAL OF A CERTIFICATE OF LANDSCAPE COMPLIANCE CONTACT BUILDING AND CODES AT 931-645-7426 TO SCHEDULE A LANDSCAPE INSPECTION.
3. NO CERTIFICATE OF OCCUPANCY SHALL BE ISSUED UNTIL ALL LANDSCAPE MATERIALS ARE IN PLACE INSUBSTANTIAL COMPLIANCE WITH THE APPROVED LANDSCAPE PLAN.
4. ANY PLANT MATERIAL THAT DIES, TURNS BROWN OR DEFOLIATES SHALL BE REPLACED WITHIN ONE YEAR OR BY THE NEXT GROWING SEASON, WHICHEVER COMES FIRST. OTHER DEFECTIVE LANDSCAPE MATERIAL SHALL BE REPLACED WITHIN THREE MONTHS.
5. ALL TREES SHALL BE STRAIGHT TRUNKED, FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED. ALL TREES AND SHRUBS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED WITH SIZES INDICATED ON THE PLANT SCHEDULE ON THE APPROVED PLANS. ALL PLANTS SHALL BE HEALTHY, VIGOROUS MATERIAL FREE OF PEST AND DISEASE. ALL ROOTBALLS, CONTAINERS AND HEIGHT TO WIDTH RATIOS SHALL CONFORM TO THE SIZE STANDARDS SET FORTH IN THE AMERICAN STANDARDS FOR NURSERY STOCK, CURRENT EDITION.
6. ALL REQUIRED DECIDUOUS TREES SHALL BE A MINIMUM OF 2" (TWO INCHES) IN CALIPER AT PLANTING.
7. ALL REQUIRED EVERGREEN TREES SHALL BE A MINIMUM OF 6' (SIX FEET) IN HEIGHT AT PLANTING.
8. ALL REQUIRED SHRUBS SHALL BE A MINIMUM OF 18" IN HEIGHT AT PLANTING.
9. ANY SITE OR LANDSCAPE CHANGES (INCLUDING BUT NOT LIMITED TO A CHANGE IN DESIGN, A REDUCTION IN SIZE OR NUMBER OF PLANT MATERIAL, OR THE RELOCATION OF OVERHEAD OR UNDERGROUND UTILITIES) WILL REQUIRE A REVISED LANDSCAPE PLAN TO BE SUBMITTED AND APPROVED PRIOR TO THE LANDSCAPE INSTALLATION.
10. IF PROPOSING ANY LANDSCAPING WITHIN A DEDICATED EASEMENT, THE FOLLOWING NOTE SHOULD BE INCLUDED ON THE LANDSCAPE PLANS:

    "THE OWNER ACKNOWLEDGES THAT LANDSCAPING IN A DEDICATED EASEMENT DOES NOT WAIVE OR MODIFY THE CITY OF CLARKSVILLE'S RIGHTS AS THE EASEMENT HOLDER. THE OWNER UNDERSTANDS THAT THE CITY OF CLARKSVILLE, IT'S AUTHORIZED CONTRACTOR OR APPLICABLE PRIVATE UTILITY SHALL HAVE NO LIABILITY TO THE OWNER FOR ANY DAMAGE TO THE LANDSCAPING IN THE EASEMENT WHEN SAID DAMAGE IS DUE TO WORK WITHIN THE EASEMENT. THE OWNER MAY BE HELD RESPONSIBLE FOR THE REMOVAL OF THE LANDSCAPING TO ENABLE WORK TO BE DONE. THE OWNER SHALL BE SOLELY RESPONSIBLE FOR ANY COSTS INCURRED IN REPAIRING AND/OR REPLACING THE REQUIRED LANDSCAPING."

PLANT SCHEDULE

QTY.	COMMON NAME	BOTANICAL NAME	HEIGHT	TRUNK	COMMENTS
CANOPY TREES					
4	Princeton Elm	Ulmus parvifolia 'Princeton'	10' - 12'	2" Cal.	B&B
8	'Green Vase' Japanese Zelkova	Zelkova serrata 'Green Vase'	10' - 12'	2" Cal.	B&B
3	Tulip Poplar	Liriodendron tulipifera	10' - 12'	2" Cal.	B&B
15	TOTAL - CANOPY TREES				
UNDERSTORY/COLUMNAR TREES					
2	'Dynamite' Crapemyrtle	Lagerstroemia indica 'Whit II'	6' - 7'	2" Cal.	Multi-Trunk, Min. (3) $\frac{3}{4}$" canes
2	TOTAL - UNDERSTORY TREES				
17	TOTAL - ALL TREES				
SHRUBS					
3	Blue Star Juniper	Juniperus squamata 'Blue Star'	6" - 8"	3 Gal.	Container
4	'Black Knight' Butterfly Bush	Buddleja davidii "Black Knigh'	30" Min.	5 Gal.	Container
22	Carissa Holly	Ilex cornuta 'Carissa'	18" Min.	3 Gal.	Container
5	Compact Inkberry Holly	Ilex glabra 'Compacta'	18" Min.	3 Gal.	Container
17	'Double Play Gold' Spirea	Spirea japonica 'Double Play Gold'	12" Min.	1 Gal.	Container
7	'Little Henry' Virginia Sweetspire	Itea virginica 'Little Henry'	18" Min.	3 Gal.	Container
13	'Obsession' Nandina	Nandina domestica 'Seika'	18" Min.	3 Gal.	Container
4	Schip Laurel	Prunus laurocerasus 'Schipkaensis'	30" Min.	5 Gal.	Container
75	TOTAL - SHRUBS				
GRASSES, PERENNIALS AND GROUND COVER					
3	Karl Foerster Grass	Calamagrostis × acutiflora 'Karl Foerster'		1 Gal.	Container
17	'Goldsturm' Black Eyed Susan	Rudbeckia fulgida var. sullivantii 'Goldsturm'		1 Gal.	Container
22	Little Bluestem	Schizachyrium scoparium		1 Gal.	Container
3	Red Drift Rose	Rosa 'Meigalpio'		3 Gal.	Container
44	Variegated Liriope	Liriope muscari 'Variegata'		1 Gal.	Container
TURF					
-	Hybrid Fescue Seed/Sod	Drought tolerant fescue blend			
MULCH					
	ROCK MULCH	ROCK MULCH, BUFFALO RIVER ROCK OR APPROVED EQUAL. 1" - 3" ROCK SIZE AND 3" DEEP.			

811
Know what's below.
Call before you dig.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

[redacted]

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

[redacted]

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[redacted]

REVISIONS:

1	COMMENTS FROM CITY	04-21-2020

[redacted]

ISSUE DATE:

1	XXXXX	XX-XX-2022

[redacted]

PANDA PROJECT #: D23503
CES PROJECT #: 2020-XXXX

[redacted]

Civil Engineering Services
Engineering, Land Planning, and Environmental
7705 Spicer Farm Lane
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37062
Phone: (615) 533-0401
e-mail: ray@civilengineeringservices.net

[redacted]

Kevin J. Reff
REGISTERED LANDSCAPE ARCHITECT
STATE OF TENNESSEE
No. 361
12-6-22

[redacted]

PANDA EXPRESS

955 N. RIVERSIDE DRIVE
CLARKSVILLE, TN. 37040

TRUE WARM & WELCOME 2600-2022

[redacted]

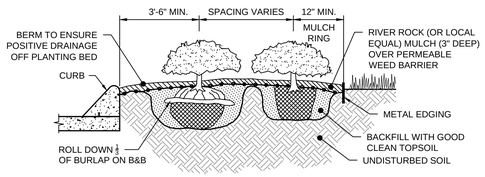
LANDSCAPE PLAN

L01.1

[redacted]

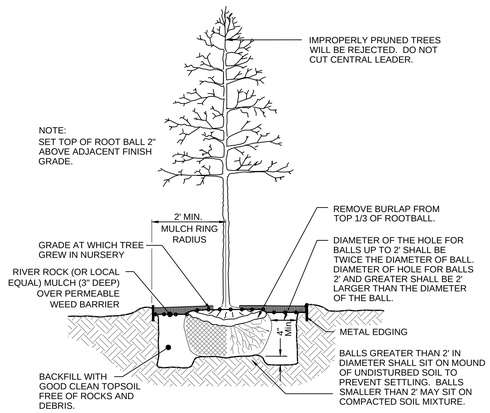
PANDA HOME 2600 R4

ISSUE FOR PERMIT XX-XX-XXXX



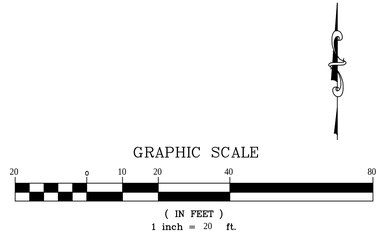
SHRUB / GROUNDCOVER PLANTING

NOT TO SCALE



DECIDUOUS TREE PLANTING

NOT TO SCALE



KITA designs
Beauty | Economy | Sustainability

Kevin Reff, RLA
KITA Sustainable Designs, LLC
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Springfield, TN 37172
(615) 469 - 1222 Ofc.
(615) 594 - 7333 Cell.
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ISSUE FOR PERMIT XX-XX-XXXX

PANDA EXPRESS, INC.
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REVISIONS:

1	COMMENTS FROM CITY	04-21-2020

ISSUE DATE:

1	XXXXX	XX-XX-2022

PANDA PROJECT #: D23503

CES PROJECT #: 2020-XXXX

Civil Engineering Services
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Kevin J. Reff
REGISTERED
DEPARTMENT OF AGRICULTURE
TENNESSEE
LICENSED
LANDSCAPE ARCHITECT
12-6-22

PANDA EXPRESS

955 N. RIVERSIDE DRIVE
CLARKSVILLE, TN. 37040

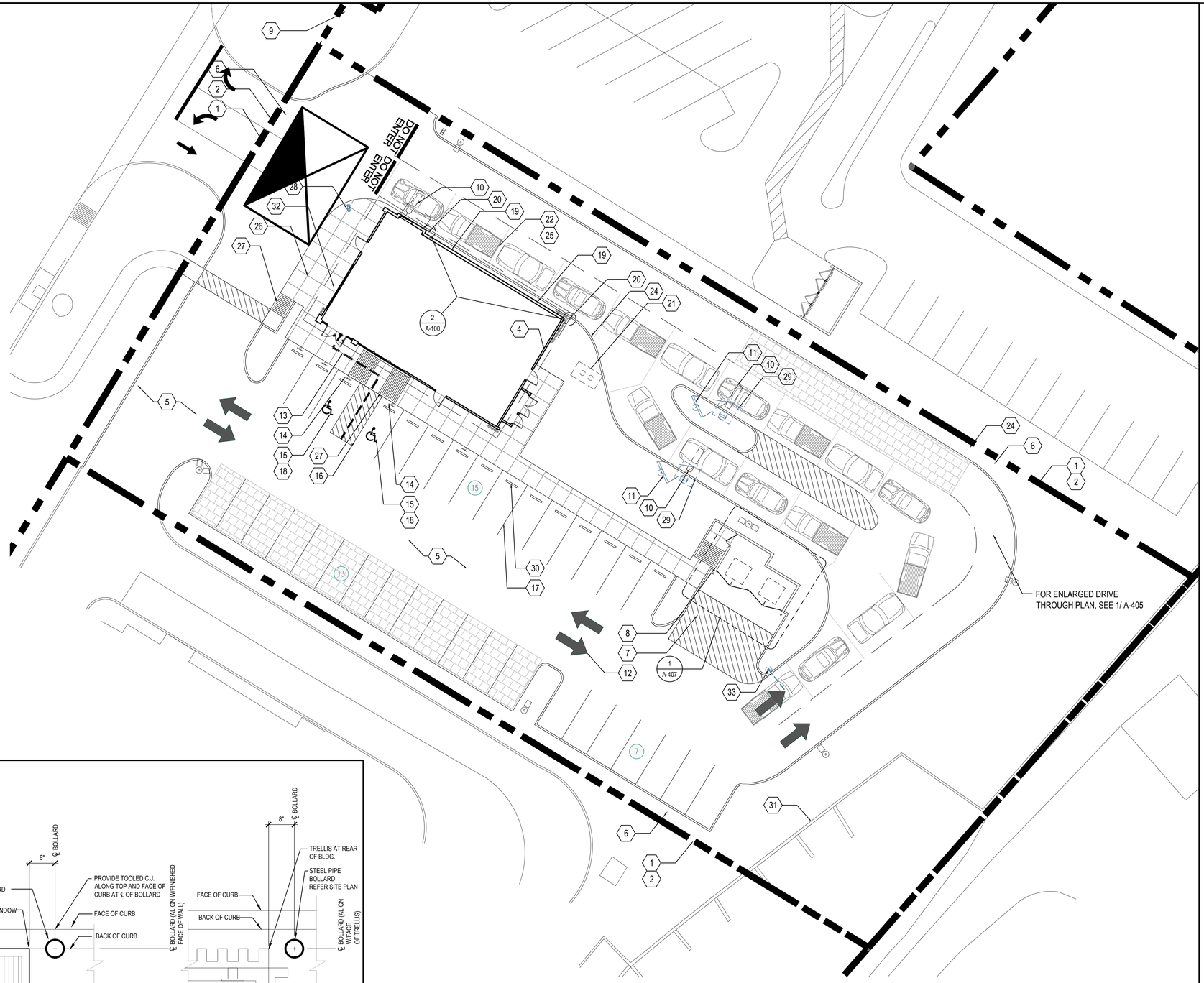
TRUE WARM & WELCOME 2600-2022

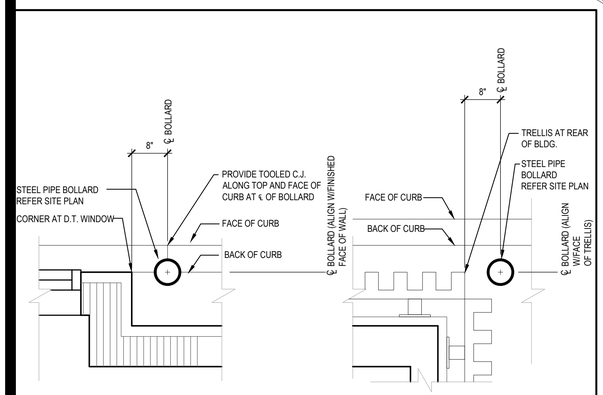
LANDSCAPE DETAILS

L01.2

PANDA HOME 2600 R4

ISSUE FOR PERMIT XX-XX-2020





DEMOLITION NOTE:
G.C. TO REMOVE ALL EXISTING ABOVE/UNDER GROUND STRUCTURAL WALLS, FOUNDATION, ASPHALT, CONC. CURBS AND DEBRIS PRIOR TO NEW CONSTRUCTION.

GENERAL NOTE:
1. G.C. TO VERIFY AND PROVIDE ALL UNDERGROUND WIRING AND CONDUIT(INSTALLED BY LOCAL UTILITY COMPANY) FROM TRANSFORMER TO ELECTRICAL MAIN SWITCHGEAR. DRIVE THRU. MENU BOARD, BY G.C.. VERIFY WITH PANDA PM.
2. WATER METER FOR IRRIGATION SHALL BE A SEPARATE METER THAN MAIN WATER METER. G.C. TO REFERENCE CIVIL UTILITY PLAN FOR SIZE AND LOCATION.
3. PROVIDE & INSTALL CAGE AND COVER FOR THE BACK-FLOW PREVENTER AT 4" CONCRETE CURB IN LANDSCAPE AREA; GORILLA CAGE, MANUFACTURED BY HOUSTON IRRIGATION SERVICES SPRING, TEXAS (281-705-9701). PROVIDE INSULATED COVER, 'AQUA SHIELD' MODEL # BFP1-S FOR COLDER REGIONS OF US. COORDINATE WITH PANDA PM. REFER TO DETAIL 11/ A-407
4. FOR HORIZONTAL CONTROL PLAN REFER TO CIVIL DRAWINGS

1. LIMIT OF CONSTRUCTION
2. PROPERTY LINE
3. NOT USED
4. NEW SWITCHGEAR
5. PAVING - SEE CIVIL PLAN
6. IRRIGATED LANDSCAPING, REFER TO LANDSCAPE DRAWINGS
7. HEAVY DUTY CONCRETE APRON FOR DUMPSTER ENCLOSURE. REFERENCE CIVIL DRAWINGS FOR SPECIFICATIONS
8. TRASH ENCLOSURE, CONFIRM BIN SIZE WITH LOCAL WASTE MANAGEMENT COMPANY. (01/A-407)
9. GC TO COORDINATE LOCATION OF SIGN WITH SIGN CO.
10. DRIVE THRU LANE SENSOR LOOP. INSTALL/POSITION SO LOOP IS CENTERED ON ACTIVE PANEL OF DRIVE THROUGH WINDOW. SEE DETAIL (01/A-405)
11. DRIVE THROUGH MENU BOARD-INSTALLED BY SIGN COMPANY. VERIFY WITH PANDA PM (SEE GENERAL NOTE ABOVE)
12. DIRECTIONAL ARROW
13. ACCESSIBLE PATH OF TRAVEL
14. ACCESSIBLE PARKING POLE SIGN
15. INTERNATIONAL ACCESSIBILITY SYMBOL @ PARKING SPACE
16. ACCESSIBLE PARKING SPACE AND LOADING ZONE PAINT LOADING ZONE W/ 4" WIDE STRIPES @3'-0" O.C.
17. PAINT 4" WIDE SOLID PARKING STRIPING W/ TWO (2) COATS HIGHWAY WHITE PAINT
18. DESIGNATED HANDICAP PARKING SPACE
19. ROOF DRAIN AND OVERFLOW DRAIN FROM ROOF TO EXIT TO DAYLIGHT THRU FACE OF WALL. COLD CLIMATES WILL REQUIRE CONNECTION TO STORM SEWER. ARCHITECT TO VERIFY WITH LOCAL JURISDICTION. (15/A-107)
20. STEEL PIPE BOLLARD. BOLLARDS TO BE PAINTED SAFETY YELLOW PRIOR TO APPLICATION OF LDPE SLEEVE. (18/A-407)
21. UNDERGROUND GREASE INTERCEPTOR - SEE PLUMBING/CIVIL DRAWINGS
22. CONC. DRIVEWAY
23. EDGE OF SIDEWALK AT PLANTER
24. CONCRETE CURB AT LANDSCAPE AREA.
25. EXPANSION JOINT @ 20'-0" O.C. MAX.
26. TOOLED JOINTS @ 5'-0"X5'-0" O.C. EXPANSION JOINT @ 20'-0" O.C.
27. ACCESSIBLE RAMP
28. GC TO COORDINATE DIRECTIONAL SIGNAGE W/ SIGN VENDOR
29. ORDER CONFIRMATION BOARD
30. RUBBER WHEEL STOP, REF. CIVIL DRAWINGS
31. RETAINING WALL. REF. CIVIL DRAWINGS
32. SEALED CONC SIDEWALK. (AQUA MIX SEALER'S CHOICE GOLD). CONCRETE TO BE LIGHT BROOM TEXTURE FINISH. PROVIDE UNDER SLAB TREATMENT PER SOIL REPORT. PROVIDE POSITIVE DRAINAGE AWAY FROM BLDG.
33. CLEARANCE BAR/BASE INSTALLED BY SIGN VENDOR.

BOLLARD PLACEMENT	2	
Scale= 3/4" = 1'-0"	A-100	
SITE PLAN	1	
Scale= 1/16" = 1'-0"	A-100	
KEY NOTES	A	
Scale= NTS	A-100	

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REVISIONS:

ISSUE DATE:

	ISSUE FOR PERMIT	10-20-22
	ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

idGROUP

CARRY D. MCLAIN
REGISTERED ARCHITECT
AGRICULTURE
NO. 106103
STATE OF TENNESSEE
10-20-22

PANDA EXPRESS

PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

A-100

SITE PLAN
ARCHITECTURAL

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-2023

ISSUE FOR BID 01-30-2023

EQUIPMENT SCHEDULE

03-04-22

PLUMBING

FS INDIRECT CONNECTION TO FLOOR SINK
D DIRECT CONNECTION
RIH ROUGH IN HEIGHT (TO CENTER OF CONNECTION)

ELECTRICAL

D DIRECT CONNECTION
C CONVENIENT OUTLET
FSO FLOOR STUB OUT
DC DROPPED CORD

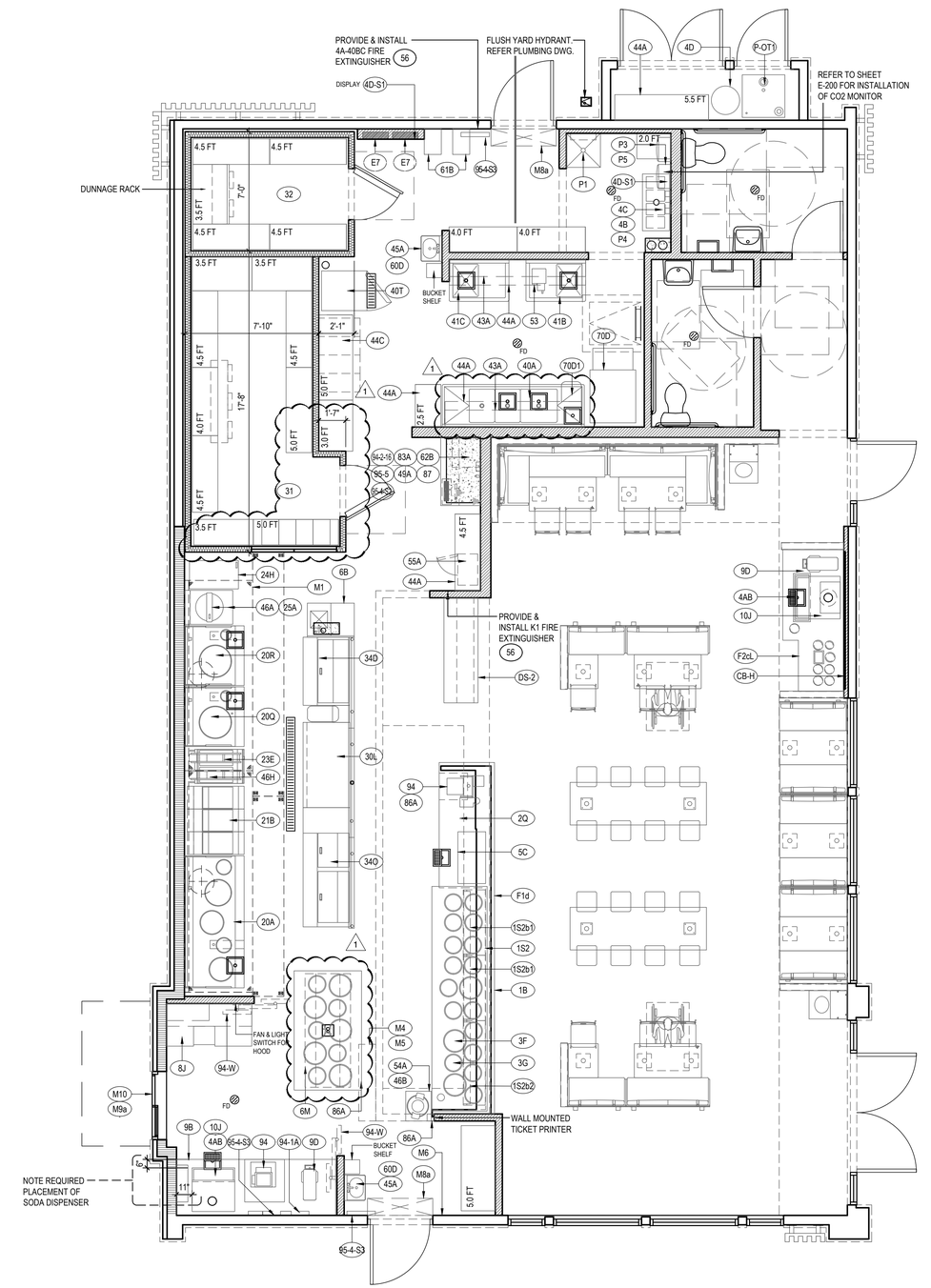
DESCRIPTION

O OWNER(PANDA EXPRESS, INC.)
GC GENERAL CONTRACTOR
EC ELECTRICAL CONTRACTOR
KEC KITCHEN EQUIPMENT COMPANY

S SERVING AREA
K KITCHEN
(E) EXISTING

SUPPLY BY	GAS K	BTU	R.I.H.	SIZE	WASTE TYPE	SIZE	COLD WATER R.I.H.	SIZE	HOT WATER R.I.H.	SIZE	CONNECTION R.I.H.	TYPE	LOAD WATT	PHASE	H.P.	VOLTS	REMARKS	DIMENSIONS W x D x H (ø x H)	MANUFACTURE	MODEL #	EQUIPMENT	NO.
SERVING AREA EQUIPMENT																						
O																	SEE DETAIL	SEE PLAN	KEC	CUSTOM	HOT WELLS COUNTER, SERVICE	1B
O																	SEE DETAIL	SEE PLAN	KEC	CUSTOM	SNEEZE GUARD	1S2
O												D	475W	1		120	3 HEATING ELEMENTS	2.375" X 4.25" X 2.375"	GENERAL		43" RADIANT TOP HEATER	1S2b1
O												D	625W	1		120	4 HEATING ELEMENTS	5.375" X 4.25" X 2.625"	GENERAL		56" RADIANT TOP HEATER (2)	1S2b2
O											REF. ELEC.	D	475W	1		120	3 HEATING ELEMENTS	42 1/8"x4.25"x2 5/8"	GENERAL		43" RADIANT TOP HEATER (2)	1S2-S1d
O												D	15A	1		120	SEE DETAIL	SEE PLAN	KEC	CUSTOM	CASHIER & BEVERAGE. COUNTER	2Q
O												C	650W	1		120	INDUCTION WARMER	15 3/4" DIA	I/O CONTROLS CORP	ABC-065-14	INDUCTION WELL - 17QT	3F
O												C	650W	1		120	INDUCTION WARMER	12 1/8" DIA	I/O CONTROLS CORP	ABC-065-10	INDUCTION WELL - 11QT	3G
O					FS	3/4"						C	9.3A	1		120	W/LID DISPENSER	30"x30"x35"	CORNELIUS	IDC-255	BEVERAGE DISPENSER	4AB
O											66"	C	7.2A	1		120	ON S/S SHELF	15"x17"X16"	WELBILT	16-2172	BOOSTER	4B
O																		40"x18"	WELBILT	15-2903-IP	SODA RACK	4C
O																		#22"	ESPRIGAS	PER MFG	CO2 TANK	4D
O																			CO2Meter.com	RAD-0102-6	CO2 MONITOR & DISPLAY	4D-S1
O					FS	1/2"												34"x17"x6 1/2"	KEC	CUSTOM	36" COLD PAN	5C
O																		SEE PLAN	KEC	CUSTOM	S/S COUNTER WITH SINK	6B
O											REF. ELEC.							SEE PLAN	KEC	CUSTOM	MOBILE HOT WELLS COUNTER - DT	6M
O																		SEE PLAN	KEC	CUSTOM	S/S COUNTER - DT	8J
O											24"							SEE PLAN	KEC	CUSTOM	CASHIER & BEVERAGE COUNTER-DT	9B
O											24"	C	14.8A	1		120	NEMA 5 PLUG	11" X 22" X 34"	BUNN	TB3	ICED TEA BREWER (2)	9D
O					FS	1/2"	24"	1/2"			84"	C	1.1A	1		120	----	22" X 14" X 26.5"	MANITOWOC	80-0894YC	800 LBS. ICE MACHINE	10J
O											16"	D	11.8A	1		208/230	ON ROOF	34"X 24.13"X 25.75"	MANITOWOC	CVD-0875	REMOTE CONDENSER	10J-S1
O														1		115	FREE STANDING	34" X 22" X 44"	MANITOWOC	IYT0620A	CUBER HALF DICE CUBE	10L
O														1		---	ABOVE ICE MACHINE	24"X 17.5"X 21.5"	MANITOWOC	D420	STORAGE BIN	10L-S1
KITCHEN EQUIPMENT																						
O	450	10"	1-1/2"	FS	2"	10"	1/2"										SEE DETAIL	93"x42"	KEC	CUSTOM	93" CHINESE RANGE (L)	20A
O	190	10"	1"	FS	2"	10"	1/2"										SEE DETAIL	42"x42"	KEC	CUSTOM	42" CHINESE RANGE	20Q
O	190	10"	1"	FS	2"	10"	1/2"				18"	C	7A	1		120	SEE DETAIL	42"x42"	KEC	CUSTOM	42" CHINESE RANGE	20R
O	122 EA.	14"	1 1/2"								24"	C	-	1		120		47"x31-1/2"x51-5/8"	FRYMASTER	M3455-FPP345G	FRYER	21B
O	54	10"	3/4"															24"x31.5"x15.25"	VULCAN	MSA24-GD100P	24" GAS GRIDDLE	23E
GRILL NEMA PLUG/CONNECTOR											36"	C	17.3A	1		208		10.4"X22.8"	VULCAN	VMCS-101	(2) ELECTRIC GRIDDLE TOP	
O											24"	C	14.8A	1		120	NEMA 5	19.9"X34.5"X41.3"	WINSTON	HA4005	RICE HOLDING CABINET	24H
O	34.6	10" & 32"	3/4"															24"x18"x17"	PANTIN	GC-6100(N)	RICE COOKER	25A
O											24"	C	9A	1	1/2	115	NEMA 5-15P	60"X33"X36"	RANDELL	9205F-290	60" WORKTOP FREEZER	30L
O					FS	3/4"					130"	D	2.5AMPS	1	1.5	208		SEE PLAN	KEC	CUSTOM	WALK-IN COOLER UNIT	31
O												D	35AMPS	1	1.5	208		SEE PLAN	KEC	CUSTOM	WALK-IN COOLER COND.	31-S
O					FS	3/4"					130"	D	EVAPORATOR FAN COIL UNIT POWERED FROM CONDENSER UNIT					SEE PLAN	KEC	CUSTOM	WALK-IN FREEZER	32
O												D	30AMPS	1	1.5	208		SEE PLAN	KEC	CUSTOM	WALK-IN FREEZER COND.	32-S1
O												D/D	500W	1		120		SEE PLAN	KEC	CUSTOM	W.I.F. LTG, DOOR HEATER	32-S7
O											24"	C	15A	1	1/2	120	SELF CONTAINED	84"x33"x35"	RANDELL	9050K-7MPR2-NSB	84" REF. PREP, TABLE	34O
O											24"	C	9A	1	1/3	120	SELF CONTAINED	48"x33"x35"	RANDELL	9030K-7	48" REF. PREP. TABLE	34D
O					FS	2"	14"	3/4"	14"	3/4"								100"X30"	KEC	CUSTOM-(PS-100L)	POT SINK	40A
O					FS						88"	C	1.52 KW	1	2	208		28"x33"x82"	ELECTROLUX	727655	THAWING CABINET	40T
O					FS	2"	14"	3/4"	14"	3/4"							1 COMPARTMENT	42"x30"	KEC	CUSTOM-(VS-42)	42" VEGETABLE SINK (R)	41B
O					FS	2"	14"	3/4"	14"	3/4"							1 COMPARTMENT	42"x30"	KEC	CUSTOM-(VS-42)	42" VEGETABLE SINK (L)	41C
O											18GA POLISHED (WALL MTD. @ 59" A.F.F.)							SEE PLAN	PANDA WAREHOUSE	CUSTOM (NSF)	12"D S.S. WALL MTD. SHELF	43A
O											18GA POLISHED (WALL MTD. @ 71" A.F.F.)							SEE PLAN	PANDA WAREHOUSE	CUSTOM (NSF)	16"D S.S. WALL MTD. SHELF	43B
O											4 SHELVES MTD. @ 8" A.F.F., 26" A.F.F., 54" A.F.F., 72" A.F.F.							SEE PLAN	GOLD BOND	ISS	18"D WIRE SHELVES	44A
O											UNDER CABINET SHELVES WITH CASTER MTD. @ 8" A.F.F., 20" A.F.F.							SEE PLAN	GOLD BOND	ISS	SHORT 18"D WIRE SHELVES	44A-U
O											4 SHELVES MTD. @ 36" A.F.F., 48" A.F.F., 60" A.F.F., 72" A.F.F.							SEE PLAN	GOLD BOND	ISS	24"D WIRE SHELVES	44C
O											UNDER CABINET SHELVES MTD. @ 8" A.F.F., 14" A.F.F.							SEE PLAN	GOLD BOND	ISS	SHORT 24"D WIRE SHELVES	44C-U
O																		24"x 30" x 24"	KEC	CUSTOM	S.S. RICE COOKER STAND	46A
O																		22"x 20" x 34.06"	KEC	CUSTOM	RICE WARMER STAND	46B
O																		24"x 33" x 28"	KEC	CUSTOM	S.S. GRILL STAND	46H
O											50"	C	10A	1	1	120	9 15/16"x19-11/16"x19-3/4"	ELECTROLUX	DITO-TRS24	FOOD PROCESSOR	53
O				FS	7/8"	20"	3/4"	20"	3/4"		18"	C	5.3A	3	4	208	DISCONNECT @ 90"	32"x37"x88"	HOBART	PW10SER	POT WASHER	70D
O				FS														14"x14"x21"	HOBART	WS-40	WATER SOFTENER	70D1
SMALL EQUIPMENT																						
O					2"	24"	1/2"	24"	1/2"								W/TOWEL & SOAP	14 1/4"x18 1/2"	GSW	HS-1615NPASS	HAND SINK	45A
O											24"	C	105W	1		120	ON S.S. COUNTER	17" ø	WELBON	WRS-1088BS	RICE WARMER	54A
O											84"	DC	1800W	1		208	PLUG: NEMA 6-15R	17 1/2"x13 5/8"x22 9/16"	SHARP	R-CD180CM	MICROWAVE	55A
BY G.C.																	AS REQUIRED BY LOCAL FIRE DEPT., CHECK LOCATION WITH PROJECT MANAGER				FIRE EXTINGUISHER	56
O																	SEE DETAIL		SAN-JAMAR	SANJT750TBK	PAPER TOWEL DISPENSER	60D
O																	WALL MOUNT	12"x20"x77"	GSW	5-DOOR	LOCKER (2)	61B
O																		20"X20"X23"	TIDEL	CUSTOM	SMART SAFE	62B
POS EQUIPMENT																						
O																	SEE ELEV. ON E-200	48" X 28" X 42"	KEC	CUSTOM	MANAGER STATION	49A
O											REF ELEV	C	100W	1		120	SEE DETAIL		DELL OPTIPLEX	Xe2	COMPUTER	83A
O											REF ELEV	C	50W	1		120	SEE PLAN		BROTHER	MFC-LC2700DW	POS PRINTERS	86A
O											REF ELEV	C	50W	1		120			BROTHER	MFC-LC2700DW	FAX	87
O											REF ELEV	C	500W	1		120	CUSTOM	11 1/4"x14 1/2"x9"	RESNOS	S 460	CASH REGISTER SYSTEM	94
MEP EQUIPMENT																						
O																	SEE MECH. DWG.	SEE PLAN	CAPTIVE AIR	CUSTOM	EXHAUST HOOD	M1
O																	SEE MECH. DWG.	SEE PLAN	CAPTIVE AIR	CUSTOM	HOOD CONTROL PANEL	M4
O																	SEE MECH. DWG	SEE PLAN	CAPTIVE AIR		FIRE SUPPRESSION SYSTEM	M5
BY G.C.																	SEE MECH/ELEC DWG	SEE PLAN			RECESSED ANSUL PULL BOX	M6
O											90"	D	5.1A	1	1/2	115	SEE MECH/ELEC DWG	42" X 10 5/8"	MARS	STD242-1U	BACK DOOR AIR CURTAIN	M8a
BY G.C.											24"	D	5.0A	1		120	SEE ELEC. DWG	24"X 9" X 14 3/8"	QUIK-SERV	CHF-25 HEATED	DT WINDOW AIR CURTAIN REGIONAL APPLICATION EITHER OR, NOT BOTH	M9a
BY G.C.											24"	D	30A	1		120 & 208	SEE ELEC. DWG	25"X 9" X 14 3/8"	QUIK-SERV	CHF-25 HEATED		
BY G.C.											24"	D	20A	1		120	SEE ELEC. DWG	47.5"X 59.5"	QUIK-SERV	SST-48BOE	DT WINDOW	M10
O																	SEE PLUMBING DWG	30" X 30 X 64"	DAY PRO	CLEANSTAR GRN 1500	GREASE TANK	P-OT1
BY G.C.					3"	36"	–	36"	–			D					FLOOR TYPE	24" X 24" X 13"	C.S.W. PHONE:1800-897-5999	SE2424FM	STAINLESS STEEL MOP SINK	P1
BY G.C.	398	100"									115"	C	8A	1		120	SEE PLUMBING DWG	39" X 29.75" X 13"	RINNAI	M10-00247	GAS TANKLESS WATER HEATER	P3 (2)
O						96"	1/2"										WALL MOUNT	8"x2 3/8"x23 5/8"	3M WATER FILTRATION	BEV190-56164-01	WATER FILTER	P4
O																	WALL MOUNT	10"x8 5/8"x18 1/2"	WATTS	OFTWH-C	WATER FILTER	P5
O											REF ELEV	C	50W	1		120	SEE ELEV. ON E-200	SEE PLAN	HYPERACTIVE		HYPERACTIVE TIMER SYS.	94-1A
O											48"	C	50W	1		120	SEE PLAN	15" X 13"	DELL (17" COLOR)		LCD MONITOR-MANAGER	94-2-16
O											REF ELEV	C	50W	1		120	SEE ELEV. ON E-200	SEE PLAN	HME		HME INTERCOM SYS.	94-3-1
O											REF ELEV	C	60W	1		120	SEE PLAN	15"	POSIFLEX	KS7215	LCD DT MONITOR	94-W
O											REF ELEV	C	50W	1		120	W/ EMI LOCK	SEE PLAN	TOSHIBA (TIME LAPSE)		SECURITY VCR	95-4-S2
O											98"	C	50W	1		120	SEE ELEC. DWG	15" X 13"	DELL (17" COLOR)		SECURITY MONITORS	95-4-S3
O											REF ELEV	C	100W	1		120	IN S.S. COUNTER	SEE PLAN			MUSIC EQUIPMENT	95-5
BY G.C.																	SEE ELEC. DWG				ELECTRICAL PANEL	E7
SIGNAGE																						
O																		REF. INT. ELEV'S	LSI	CUSTOM	MENU BOARD	D2b
O																	BF-POWER COAT "DF125 SILVER"		FAD	–	COMMUNITY BOARD	CB-H
O											REF ELEV	C	1.30W	1		120	DEDICATED CIRCUIT	48.9" X 28.1" X 1.3"	LG	55WS50BS-B	LCD DISPLAY MONITOR	96-3B
FURNITURE																						
																	SEE PLAN		RICHFIELD	STRAIGHT-BF	SERVICE COUNTER	F1d
																	SEE PLAN		RICHFIELD	LEFT TETON BEIGE	BEVERAGE COUNTER	F2CL

* REFERENCE SHEET A-109 FOR FURNITURE CORE DRILL DIMENSIONS



KITCHEN PLAN 1

Scale= 1/4" = 1'-0" A-101

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

1	OWNER REVISIONS	01-30-23

ISSUE DATE:

	ISSUE FOR PERMIT	10-20-22
	ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

idGROUP

CARRY D. MCLAIN REGISTERED ARCHITECT STATE OF TENNESSEE NO. 106107
10-20-22

PANDA EXPRESS

PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

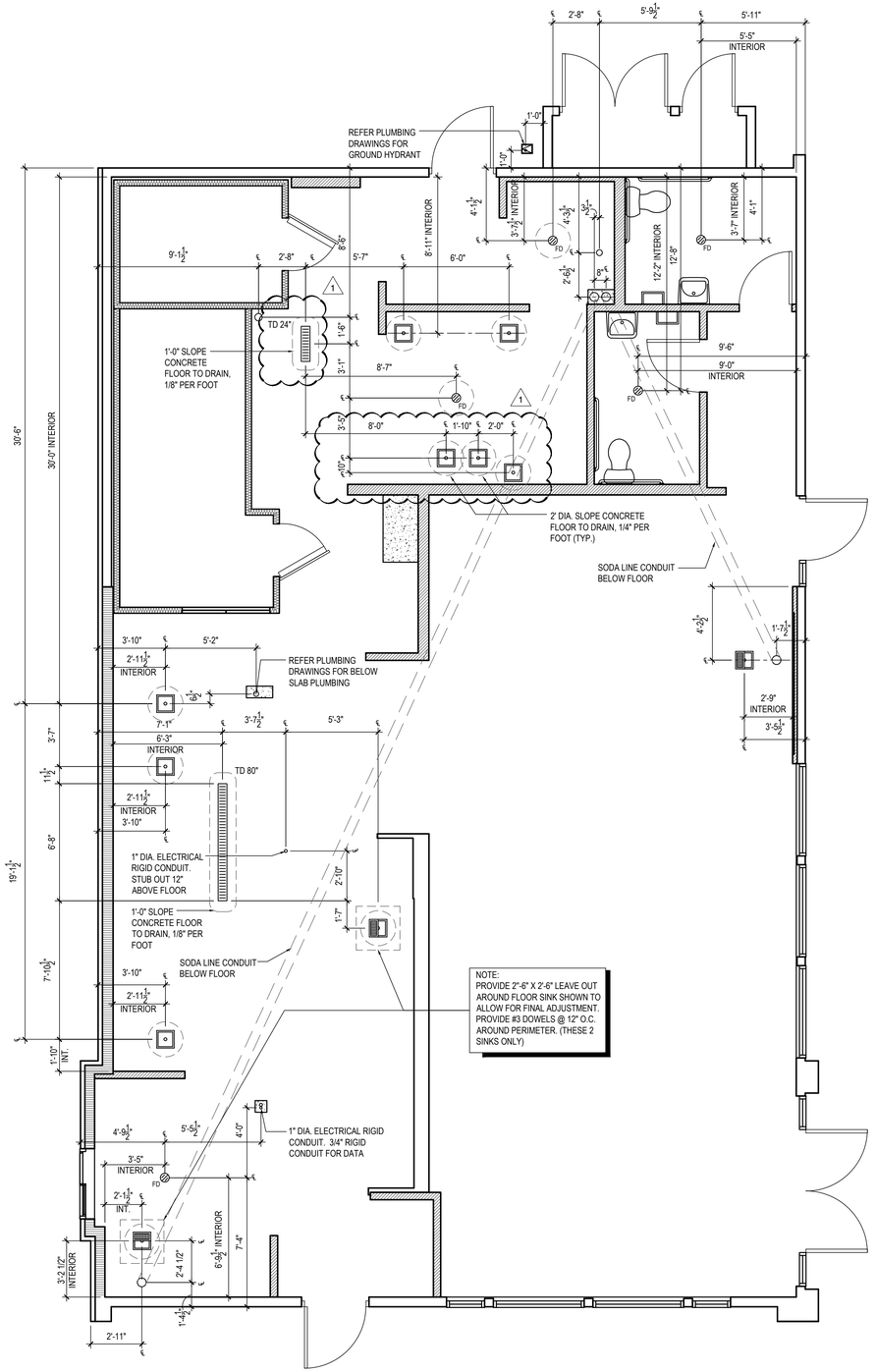
A-101

KITCHEN PLAN

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-2023

ISSUE FOR BID 01-30-2023



NOT USED	3	NOT USED	2	ROUGH - IN PLUMBING PLAN	1
Scale= 1 1/2" = 1'-0"	A-102	Scale= 1 1/2" = 1'-0"	A-102	Scale= 1/4" = 1'-0"	A-102

ISSUE FOR BID 01-30-2023

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idGROUP

CARRY D. MCLAIN
REGISTERED ARCHITECT
AGRICULTURE
NO. 106103
STATE OF TENNESSEE
10-20-22

PANDA EXPRESS

PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

A-102

ROUGH - IN PLUMBING PLAN

ISSUE FOR BID 01-30-2023

PANDA HOME 2600 R4

FINISH SCHEDULE

03-04-22

ROOM NAME	FLOOR	BASE	WALL	CEILING
100 DINING ROOM	T200 24" X 24" TILE T402 INLAY	T111 TILE SIZE: REF. SCHEDULE T200 TILE SIZE: REF. SCHEDULE T124 FULL TILE	P101, P104 PAINT T111, T124 TILE G-1 WALL COVERING	C1 2' X 2' ARMSTRONG, OPTIMA C3 GYP BOARD W/ PAINT P103
101 SERVING AREA	S1 PLAIN S2 ABRASIVE IN HIGH TRAFFIC AREAS	S1 6" H CONT. (KITCHEN EQUIPMENT ON 6" NSF APPROVED LEGS)	T111 HAND SINK WALL TILE WP1 FRP PANEL	C3 GYP BOARD W/ SMOOTH WASHABLE PAINT
102 DRIVE-THRU STATION	S1 PLAIN S2 ABRASIVE IN HIGH TRAFFIC AREAS	S1 6" H CONT. (KITCHEN EQUIPMENT ON 6" NSF APPROVED LEGS)	WP1 FRP PANEL	C2 2' X 4' SUSPENDED GRID WASHABLE VINYL COATED GYP BOARD PANELS
103 KITCHEN	S1 PLAIN S2 ABRASIVE IN HIGH TRAFFIC AREAS	S1 6" H CONT. (KITCHEN EQUIPMENT ON 6" NSF APPROVED LEGS)	WP3 S.S. BEHIND COOK LINE WP1 FRP PANEL	C2 2' X 4' SUSPENDED GRID WASHABLE VINYL COATED GYP BOARD PANELS
104 KITCHEN PREP.	S1 PLAIN S2 ABRASIVE IN HIGH TRAFFIC AREAS	S1 6" H CONT. (KITCHEN EQUIPMENT ON 6" NSF APPROVED LEGS)	WP1 FRP PANEL	C2 2' X 4' SUSPENDED GRID WASHABLE VINYL COATED GYP BOARD PANELS
105 WALK-IN COOLER	S1 PLAIN S2 ABRASIVE IN HIGH TRAFFIC AREAS	S.S. / ALUMINUM WITH ⅜" RADIUS	EXT S.S. INT ALUMINUM GALVANIZED S.S.	ALUMINUM GALVANIZED STAINLESS STEEL
105A WALK-IN FREEZER	GALVANIZED STAINLESS STEEL S1 SILIKAL UNDER W/F SUBFLOOR	S.S. / ALUMINUM WITH ⅜" RADIUS	EXT S.S. INT ALUMINUM GALVANIZED S.S.	ALUMINUM GALVANIZED STAINLESS STEEL
106 MEN'S ROOM	T200 24" X 24" TILE	T108 FULL TILE SCHLUTER	T108 TILE	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT
107 WOMEN'S ROOM	T200 24" X 24" TILE	T108 FULL TILE SCHLUTER	T108 TILE	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT
108 VESTIBULE	T200 24" X 24" TILE	T124 FULL TILE	P104 PAINT T124 TILE	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT
109 NOT USED	-	-	-	-
110 EXTERIOR STORAGE	SEALED CONCRETE, SMOOTH FINISH	-	WP1 FRP PANEL	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT
111 NOT USED	-	-	-	-

DOOR & HARDWARE SCHEDULE

INSTALLED AND FURNISHED BY, G.C. UNLESS NOTED OTHERWISE

CONTRACTOR TO PURCHASE DOOR HARDWARE & FRAME DIRECTLY FROM PANDA'S NATIONAL ACCOUNT SUPPLIER. SUPPLIER TO PROVIDE ALL STOREFRONT DOOR HARDWARE, P-LAM DOORS & FRAMES AND HM DOORS & FRAMES

CONTACT FOR QUOTING, ORDERING & LOGISTICS
APRIL WALDREN, PROJECT MANAGER
800-887-4307 EXT. 350 PHONE
AprilW@locknet.com, panda@locknet.com

CONTACT FOR GENERAL ACCOUNT NEEDS
ANGIE HAINES, ACCOUNT MANAGER
800-887-4307 EXT. 145 PHONE / 859-509-4031 MOBILE
AngieH@locknet.com, panda@locknet.com

NOTE!!!!
CONTRACTOR HAS THE OPTION TO PURCHASE STOREFRONT HARDWARE FROM OTHER SOURCE, PROVIDED THE HARDWARE IS PER SPECS. NO SUBSTITUTIONS ALLOWED. STOREFRONT HARDWARE SPECS ARE PROVIDED IN THE PROJECT BID PACKAGE. COORDINATE WITH PANDA PROJECT MANAGER LISTED ON SHEET G-001

ADDITIONAL CONTACTS:
THOMAS DOWNS, SALES MANAGER; ThomasD@locknet.com; 800-887-4307 x116
EDDIE ANDUEZA, DIR. ARCH. DOOR & HRDWR SOL.; eddiea@locknet.com, 859-432-2289

NO.	DOOR MATERIAL	SIZE	FRAME	FACE/EDGE	THK.	CORE	LITE	RATE	HARDWARE: PASSAGE	LATCHSET	ELECT. STRIKE W/ ENTRY KEYPAD	PRIVACY	S.F. PULL	S.F. PUSH	PANIC	HINGE: BUTT	CONT.PIANO	STOP: FLOOR	WALL	THRESHOLD	ACCESSORIES: LATCH GUARD	DETEX ALARM	SILENCERS	KICKPLATE	CLOSER	REMARKS
D1	ALUMINUM STOREFRONT KAWNEER CURTAIN WALL SYSTEM	(2) 3'-6" X 7'-0"	ALUM.	BLACK ALUM.	1 ¾"	HOLLOW	GLASS	-		●			●		●		●	●		●					●	KAWNEER CURTAIN 1620 SYSTEM PULL ON EXTERIOR SIDE
D2	ALUMINUM STOREFRONT KAWNEER CURTAIN WALL SYSTEM	3'-6" X 7'-0"	ALUM.	BLACK ALUM.	1 ¾"	HOLLOW	GLASS	-		●			●		●		●	●		●					●	KAWNEER CURTAIN 1620 SYSTEM PULL ON EXTERIOR SIDE
D3	S.C. WOOD	3'-0" X 7'-0"	H. MTL.	PLASTIC LAM. PRE-FINISHED	1 ¾"	SOLID	-	-				●				●			●				●	●	●	KICKPLATE ON EA. SIDE OF DOOR
D4	NOT USED	-	-	-	-	-	-	-																		
D5	HOLLOW METAL	3'-6" X 7'-0"	H. MTL.	PAINTED	1 ¾"	INSUL.	-	-							●		●			●	●	●		●	●	KICKPLATE ON INT. SIDE OF DOOR
D6	HOLLOW METAL	(3) 3'-0" X 7'-0"	H. MTL.	PAINTED	1 ¾"	INSUL.	-	-		●							●			●	●					W/ LOUVERED VENT & BUG SCREEN
D8	ALUMINUM STOREFRONT	3'-6" X 7'-0"	ALUM.	BLACK ALUM.	1 ¾"	HOLLOW	GLASS	-		●	●		●	●	●		●	●		●					●	OPAQUE BLACK-OUT SPANDREL GLAZING
D1s	NOT USED	-	-	-	-	-	-	-																		

WALL SCHEDULE

INSTALLED AND FURNISHED BY, G.C. UNLESS NOTED OTHERWISE

NO.	DESCRIPTION
W1	3-5/8" 20GA. METAL STUD WALL W/ ⅝" TYPE "X" GYP. BOARD BOTH SIDES (SEE ARCHITECTURAL DETAILS & ELEVATIONS)
W2	3-5/8" 20GA. METAL STUD WALL W/ ⅝" TYPE "X" GYP. BOARD ON ONE SIDE (SEE ARCHITECTURAL DETAILS & ELEVATIONS)
W3	(2) 3-5/8" 20GA. METAL STUD WALLS W/ ⅝" TYPE "X" GYP. BOARD BOTH SIDES (SEE ARCHITECTURAL DETAILS & ELEVATIONS)
W4	3-5/8" 20GA. METAL STUD LOW WALL W/ ⅝" TYPE "X" GYP. BD BOTH SIDES. PROVIDE 3 ½" KNEE-WALL BRACE/POST @ CORNERS AND @ 48" O.C.
W5	6" 20GA. METAL STUD WALL W/ ⅝" TYPE "X" GYP. BOARD BOTH SIDES (SEE ARCHITECTURAL DETAILS & ELEVATIONS)
W6	6" 20GA. METAL STUD WALL W/ ⅝" TYPE "X" GYP. BOARD ONE SIDE (SEE ARCHITECTURAL DETAILS & ELEVATIONS)
W7	3-5/8" 20GA. METAL STUD LOW WALL W/ ⅝" TYPE "X" GYP. BOARD BOTH SIDES. PROVIDE 3 ½" KNEE-WALL BRACE/POST @ CORNERS AND @ 48" O.C
W8	1 1/2" 20GA. HAT CHANNEL FURRING W/ ⅝" TYPE "X" GYP. BOARD ON ONE SIDE. REFER DETAILS FOR FURRING DISTANCE
W9	2 1/2" 20GA. METAL STUD FURRING W/ ⅝" TYPE "X" GYP. BOARD ON ONE SIDE

WALL PANEL SCHEDULE

INSTALLED AND FURNISHED BY, G.C. UNLESS NOTED OTHERWISE

NO	MANUFACTURER	DESCRIPTION	MFG #	COLOR FINISH	REMARK
WP1	CRANE COMPOSITES INC.	F.R.P. THICKNESS: .075	LBCS.14	#636 (GRAY), SM/SM	CONTACT: LAUREN ARMSTRONG 815.467.8684
WP2	-	S.S. PANEL (22 GA)	-	BRUSHED FINISH	FURNISHED BY PX, INSTALLED BY G.C.
WP3	-	S.S. PANEL (22 GA)	-	DIAMOND PATTERN FINISH	FURNISHED BY PX, INSTALLED BY G.C.
W101	NOT USED	-	-	-	-
W103	NOT USED	-	-	-	-
W104	NOT USED	-	-	-	-
W106	WOLF GORDON	WALLCOVERING	-	GOLD LANTERN & CLOUD	CONTACT: CINDY GALLAGHER 718.391.5478 cindy.gallagher@wolfgordon.com
W107	WOLF GORDON	WALLCOVERING	-	FRETWORK	
W108	-	CANOPY GRAPHIC	-	-	
G-4b	-	MENU BACKER PANEL	TBD	TBD	
SIRTV		WALL MURAL	TBD	TBD	

SPECIAL SURFACE SCHEDULE

INSTALLED AND FURNISHED BY, G.C. UNLESS NOTED OTHERWISE

NO	MANUFACTURER	PRODUCT	MFG #	STAIN / COLOR	FINISH	REMARK
QZ-5	DALTILE	ARTIFICIAL QUARTZ	-	BROADWAY BLACK	POLISHED	SERVICE COUNTER & DRINK STATION PROVIDED BY PX, INSTALLED BY G.C.

INTERIOR PAINT SCHEDULE

INSTALLED AND FURNISHED BY, G.C. UNLESS NOTED OTHERWISE

NO	MANUFACTURER	MFG #	COLOR	FINISH	REMARK
P9As	SHERWIN-WILLIAMS	SW 7065	ARGOS	PROMAR 200, ZERO VOC, LATEX SEMI-GLOSS	REAR SERVICE DOOR
P101	SHERWIN-WILLIAMS	SW 6252	ICE CUBE	PROMAR 200, ZERO VOC, LATEX EGG-SHELL	RESTROOM & RESTROOM VESTIBULE CEILING, DINING ROOM SOFFIT
P102	NOT USED				
P103	NOT USED				
P104	SHERWIN-WILLIAMS	SW 2850	CHELSEA GRAY	PROMAR 200, ZERO VOC, LATEX EGG-SHELL	DINING RM. WALLS, RESTROOM VESTIBULE WALLS
P105	NOT USED				
P106	SHERWIN-WILLIAMS	SW 7069	IRON ORE	DTM ACRYLIC GLOSS, LOW VOC	RESTROOM DOOR FRAMES
P205	SHERWIN-WILLIAMS	SW 7069	IRON ORE	PROMAR 200, ZERO VOC, LATEX EGG-SHELL	FRONT & UNDERSIDE OF SERVICE LINE & BACK OF SERVICE LINE SOFFIT

TILE SCHEDULE (SEE SHEET A-104)

WALL LEGEND

- NEW EXTERIOR WALL
- NEW EXTERIOR WALL FRAMED WITH STRUCTURAL STEEL STUDS
- NEW INTERIOR WALL (FULL HT.)
- NEW INTERIOR WALL (LOW WALL - REF. ELEV. & DETAILS)
- WALK-IN BOX PANEL

NOTE: THE FOLLOWING STAINLESS STEEL PROVIDED BY PX--INSTALLED BY G.C.:
1. PANEL DIVIDERS AT WP3
2. INSIDE CORNER AT WP3 TO WP2
3. FLASHING AT TOP OF BASE WP3
4. WP2 PIECE AT LENGTH OF WALL

NOTE: THE FOLLOWING STAINLESS STEEL PROVIDED BY G.C.-INSTALLED BY G.C.:

5. INSTALL 18 GA STAINLESS STEEL CORNER GUARD & WALL CAP INSIDE KITCHEN

- CG-1A 18 GA. STAINLESS STEEL CORNER GUARD - FULL HT.
- CG-1A 18 GA. STAINLESS STEEL CORNER GUARD - 4'-0" HIGH
- CG-2 18 GA. STAINLESS STEEL CORNER GUARD/FRAME - ALL AROUND PERIMETER OF OPENING - FRAME TO BE WELDED WITH MITERED CORNERS TO FORM SINGLE UNIT.
- WC-1 18 GA. STAINLESS STEEL WALL CAP

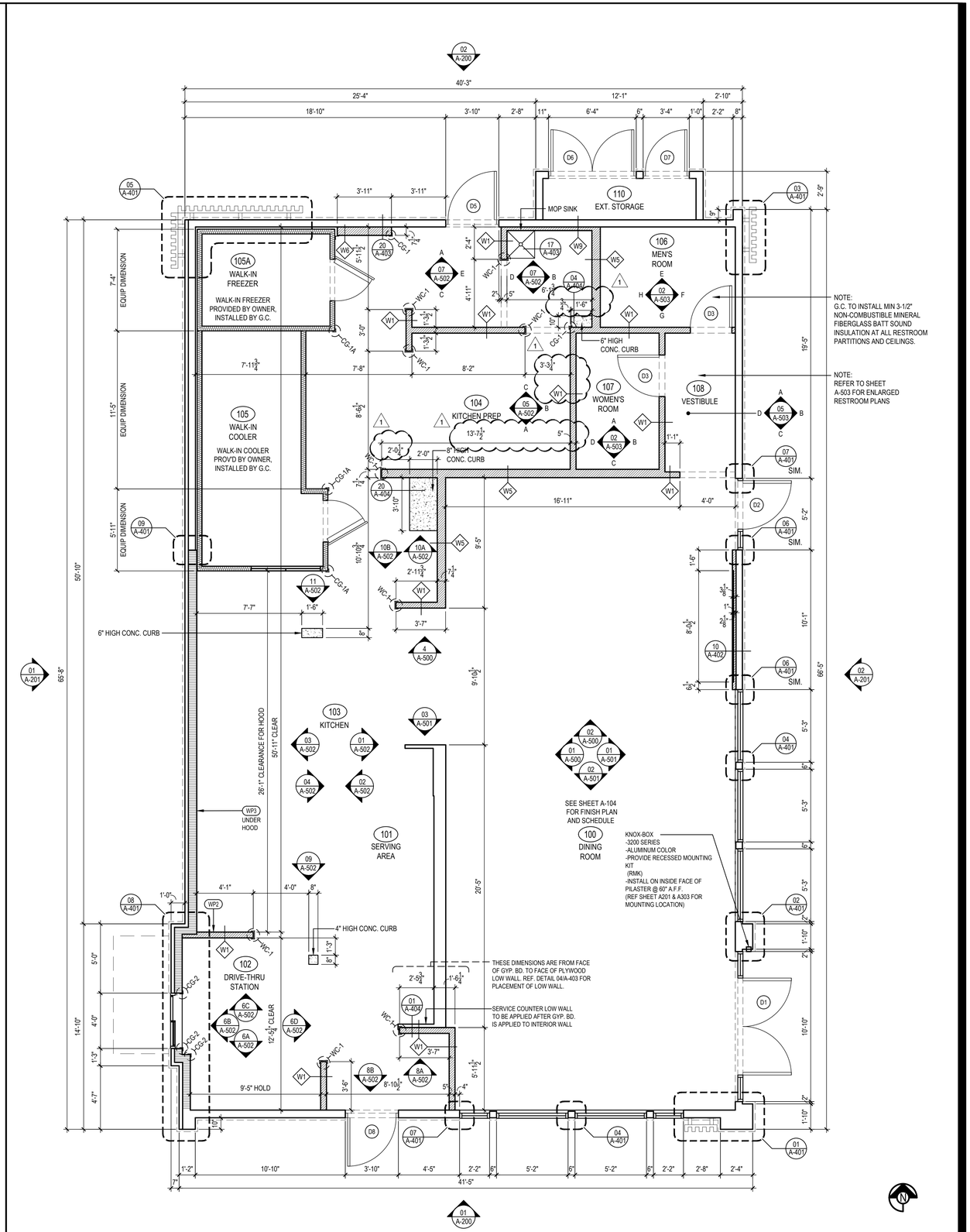
ALL OTHER STAINLESS STEEL BY G.C.

NOTE!!!!!!!!!!!:

***ALL INTERIOR DIMENSIONS ARE TO FACE OF GYPSUM BOARD**

NOTE:

CONTRACTOR TO NOTIFY 3rd PARTY VENDOR, PER THE VENDOR LIST, FOR WALL PRE-TREAT BEFORE CLOSING WALLS



FLOOR PLAN 1

Scale= 1/4" = 1'-0" A-103

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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ARCH PROJECT #: 261-443

idGROUP

CARRY D. MCLAIN REGISTERED ARCHITECT AGRICULTURE ARCHITECT NO. 10610 STATE OF TENNESSEE

10-20-22

PANDA EXPRESS

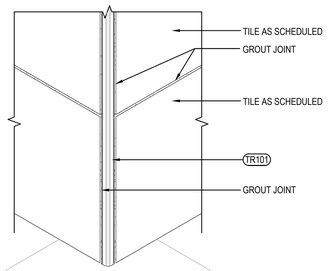
PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

A-103

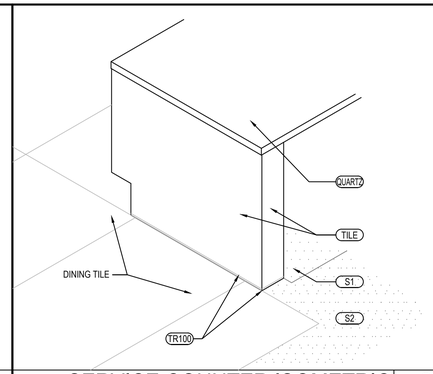
FLOOR PLAN

ISSUE FOR BID 01-30-2023

PANDA HOME 2600 R4



OUTSIDE CORNER DETAIL 3
Scale= 3" = 1'-0" A-104



SERVICE COUNTER ISOMETRIC 2
Scale= 3/4" = 1'-0" A-104

TILE SCHEDULE

INSTALLED AND FURNISHED BY, G.C. UNLESS NOTED OTHERWISE

03-04-22

NO.	MANUFACTURER	DESCRIPTION	COLOR	FINISH	JOINT	GROUT	REMARK
T-108	CMC AGGREGATE DOUG SALATINO 518-713-5371	12" X 24" X ⅜"	-	-	1 / 8"	G-111	RESTROOM WALL
T-111	DALTILE	6" X 36" X 3/8" 9" X 36" X 3/8"	FOREST PARK - SUMMERTREE FP95	MATTE	1/8"	G-115	RR VESTIBULE & DINING ROOM WALLS CONTACT: NATIONAL ACCOUNT SUPPORT DESK 877.556.5728 (national.accounts@daltile.com)
T-124	CMC DOUG SALATINO 518-713-5371	24" X 24"	MARQUISETTE CALACATTA BLACK	MATTE	1/8"	G-116	DINING WAINSCOT
T-200	CMC DOUG SALATINO 518-713-5371	24" X 24"	BRAVADA GREIGE	MATTE	1/8"	G-96	DINING & RESTROOM FLOOR
T-321	DALTILE	13.562" SQUARE REVALIA BASE REMIX-FAN	FELICITY WHITE	GLOSSY	1/8"	G-114	BEVERAGE COUNTER BACKSPLASH AND SERVICE COUNTER
T-403	BEDROSIANS TAMARA RAMSEY 469-560-6133	1" X 12"	SAHARA	MATTE	1/8"	G-107	DINING ROOM FEATURE AREA
S1	SILIKAL	QUARTZ BLEND #4	-	PLAIN	-	-	KITCHEN, SERVICE FLOOR CONTACT:MARK FELDMAN 770-830-1404 (mfeldman@silikalamerica.com) JOHN COTHRAN 888-830-1404 (jcothran@silikalamerica.com)
S2	SILIKAL	QUARTZ BLEND #4	-	ABRASIVE	-	-	
M100	NOT USED	-	-	-	-	-	-
GROUT	MANUFACTURER	DESCRIPTION	MFG.	COLOR	FINISH		REMARK
G-96	MAPEI 800.42.MAPEI WWW.MAPEI.COM	LATEX MODIFIED GROUT	11	SAHARA BEIGE	POLY BLEND 1 / 8" NON-SANDED		DINING & RESTROOM FLOOR APPLY GROUT SEALER
G-107	MAPEI 800.42.MAPEI WWW.MAPEI.COM	LATEX MODIFIED GROUT	107	IRON	POLY BLEND 1 / 8" NON-SANDED		DINNING ROOM FLOOR APPLY GROUT SEALER
G-111	MAPEI 800.42.MAPEI WWW.MAPEI.COM	LATEX MODIFIED GROUT	19	PEARL GREY	POLY BLEND 1 / 8" NON-SANDED		RESTROOM , DINING APPLY GROUT SEALER
G-113	MAPEI 800.42.MAPEI WWW.MAPEI.COM	LATEX MODIFIED GROUT	07	CHOCOLATE	POLY BLEND 1 / 8" NON-SANDED		APPLY GROUT SEALER
G-114	MAPEI 800.42.MAPEI WWW.MAPEI.COM	LATEX MODIFIED GROUT	19	PEARL GREY	POLY BLEND 1 / 8" NON-SANDED		BEVERAGE COUNTER BACKSPLASH APPLY GROUT SEALER
G-115	MAPEI 800.42.MAPEI WWW.MAPEI.COM	LATEX MODIFIED GROUT	42	MOCHA	POLY BLEND 1 / 8" NON-SANDED		APPLY GROUT SEALER
G-116	MAPEI 800.42.MAPEI WWW.MAPEI.COM	LATEX MODIFIED GROUT	10	BLACK	POLY BLEND 1 / 8" NON-SANDED		DINING WAINSCOT APPLY GROUT SEALER

* REFER A-200 EXTERIOR FINISH SCHEDULE FOR EXTERIOR DECORATIVE TILE

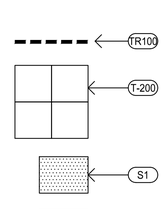
* SCHLUTER SYSTEM ALUMINUM TRIM:

COVE TILE TRIM: INSTALLED AT RESTROOM, SERVICE COUNTER, AND DRINK STATION
SCHLUTER SYSTEMS DILEX-AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)
TR100 -OUTSIDE CORNER CONNECTOR PIECE: DILEX-AHK-E90/AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)
-INSIDE CORNER CONNECTOR PIECE: DILEX-AHK-I90/AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)
-END CAP PIECE: DILEX-AHK-E/AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

EDGE TILE TRIM:
SCHLUTER SYSTEMS RONDEC-RO125 AMGB (BRUSHED BRASS ANODIZED ALUMINUM)
TR101 -OUTSIDE CORNER CONNECTOR PIECE: RONDEC-EV/RO125 AMGB (BRUSHED BRASS ANODIZED ALUMINUM)
-INSIDE CORNER CONNECTOR PIECE: RONDEC-I2L/RO125 AMGB (BRUSHED BRASS ANODIZED ALUMINUM)

EDGE TILE TRIM: INSTALLED AT SERVICE COUNTER TOE KICK
SCHLUTER SYSTEMS JOLLY-A 80 AMGB (BRUSHED BRASS ANODIZED ALUMINUM)
TR103 -OUTSIDE EDGE PROTECTION PIECE

EDGE TILE TRIM: INSTALLED AT FLOOR INLAY
SCHLUTER SYSTEMS SHIENE-R/M 125 (SATIN BRASS ANODIZED ALUMINUM)
TR104

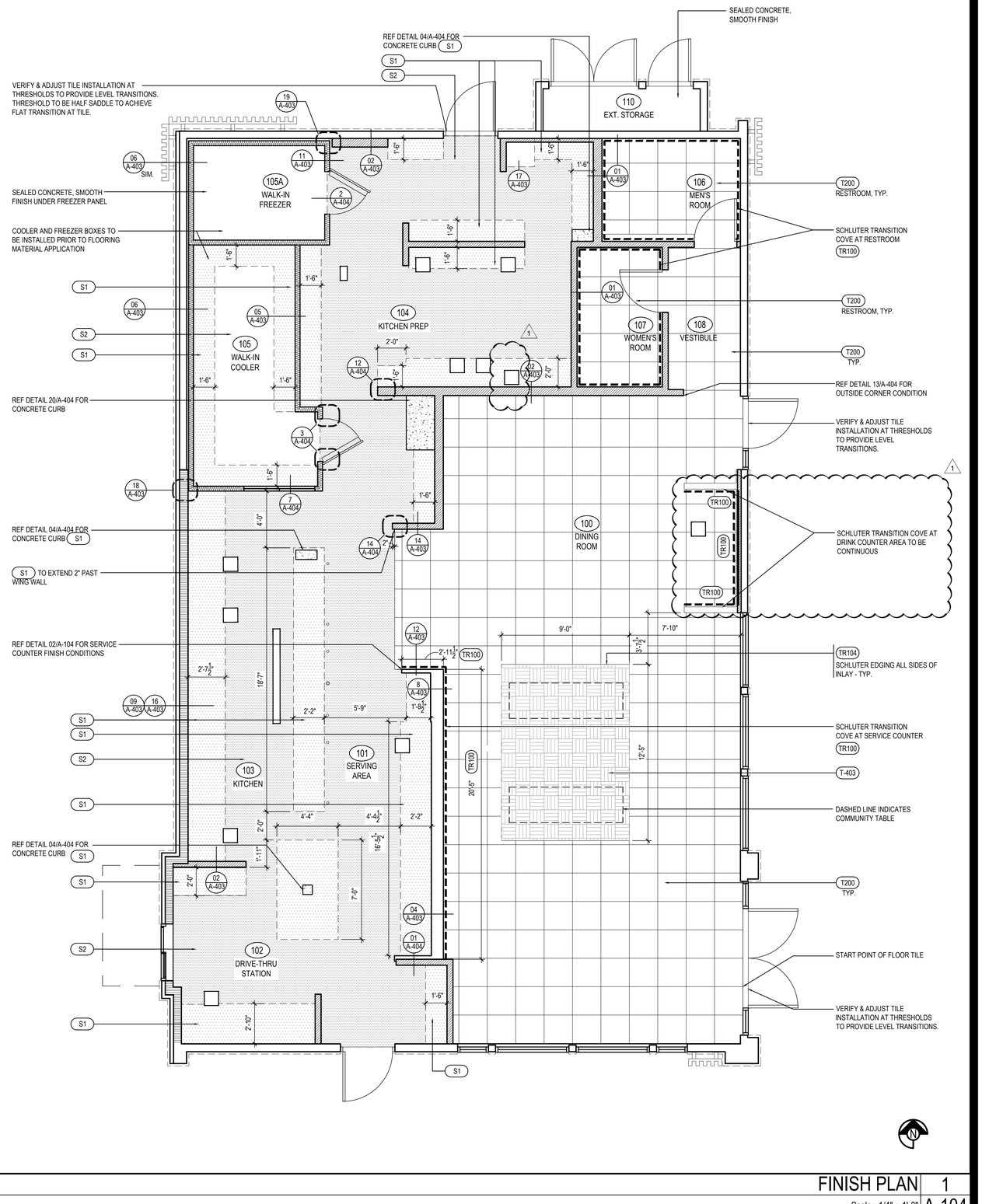


* EPOXY GROUT BY MAPEI, KERAPOXY IEG, 100% SOLIDS INDUSTRIAL GRADE:
AREAS: UNDER HOOD AND 36 " IN FRONT OF COOKING LINE, 3 COMPARTMENT SINK AND MOP SINK AREA

SEE MANUFACTURER'S SPECIFICATION, DETAILS AND GUIDE FOR PREPARATION, MIXING, GROUTING AND CLEANING INSTRUCTION

NOTE: SEE INTERIOR SHEETS FOR WALL/ BASE TILE LOCATIONS AND SPECIFICATIONS

FINISH SCHEDULE A
Scale= NTS A-104



FINISH PLAN 1
Scale= 1/4" = 1'-0" A-104

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PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

idGROUP

CARRY D. MCLAIN
REGISTERED ARCHITECT
AGRICULTURE
STATE OF TENNESSEE
NO. 106109
10-20-22

PANDA EXPRESS

PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

A-104

FINISH PLAN AND SCHEDULE

ISSUE FOR BID 01-30-2023

PANDA HOME 2600 R4

LIGHTING FIXTURE SCHEDULE

PROVIDED FOR INFORMATION ONLY.
VERIFY AND INSTALL PER ELECTRICAL DRAWING

03-04-22

ITEM	SYMBOL	DESCRIPTION	QTY.	MFR. & CAT. NO.	REMARK
INTERIOR LIGHTING ITEM					
L1	L1	T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	13	LSI FIXTURE: SFP24-LED-FS-UNV-DIM	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC
L1B	L1B	T-BAR CEILING RECESSED MOUNTED LED LIGHTING EMERGENCY FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	0	LSI FIXTURE: SFP22-LED-FS-DIM	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC
L1C	L1C	T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 1' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	0	LSI FIXTURE: SFP14-LED-FS-UNV-DIM	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC
L1EM	L1EM	T-BAR CEILING RECESSED MOUNTED LED LIGHTING EMERGENCY FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	4	LSI FIXTURE: SFP24-LED-FS-UNV-DIM-EM	EMERGENCY KITCHEN CEILING LIGHTS FURNISHED BY OWNER INSTALLED BY GC
L4HO	L4HO	UNIVERSAL MOUNT EXIT SIGN, LED LIGHTED, 120/277V WITH BATTERY PACK, 2 FACE, GREEN LETTER	4	EXITRONIX GVEX-U-BP-WB-BL-R6	EXIT SIGN FURNISHED BY OWNER, INSTALLED BY GC
L6A	L6A	HOOD LIGHT	12	FURNISHED & INSTALLED BY EQUIPMENT SUPPLIER	LIGHTS SUPPLIED & PRE-WIRED BY HOOD VENDOR. ELECTRIC CONTRACTOR TO CONNECT MAIN WIRES TO SHUNT TRIP BREAKER AND HOOD CONTROL PANEL
L6B	L6B	WALK-IN COOLER FLUORESCENT LIGHT, 120 V 48"	3	KASON FIXTURE # 11810LCT400 (1)	FURNISHED BY WIC VENDOR, G.R.E. , INSTALLED BY GC
L19	L19	DOWN LIGHT, RECESSED IN CEILING	27	ELITE HOUSING: LD6IC-AT ELITE TRIM: RL631-950L-DIMTR-120-30K-90-RL631-RT-W-WH	FURNISHED BY OWNER, INSTALLED BY GC
L19	L19B	DOWN LIGHT, RECESSED IN CEILING "B" SHALL DESIGNATE BLACK TRIM	9	ELITE HOUSING: LD6IC-AT ELITE TRIM: RL631-950L-DIMTR-120-30K-90-RL631-RT-MB-BK	FURNISHED BY OWNER, INSTALLED BY GC
L19EM	L19EM	EMERGENCY DOWN LIGHT, RECESSED IN CEILING	6	ELITE HOUSING: LD6IC-AT ELITE TRIM: RL631-950L-DIMTR-120-30K-90-RL631-RT-W-WH	EMERGENCY RECESSED DOWN LIGHT - NORMALLY ON INVERTER UNIT - ISOLITE, IMI-12-LC-V1 FURNISHED BY OWNER INSTALLED BY GC
L20	L20W	4" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING "W" SHALL DESIGNATE WHITE TRIM	6	ELITE HOUSING: BL4-50-M-120-AT-W ELITE TRIM: B1406-WH	FURNISHED BY OWNER, INSTALLED BY GC
L20	L20B	4" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING "B" SHALL DESIGNATE BLACK TRIM	8	ELITE HOUSING: BL4-50-M-120-AT-W ELITE TRIM: B1406-BK	FURNISHED BY OWNER, INSTALLED BY GC
L30	L30	WHITE LED AT DINING ROOM CANOPY	33 L.F.	ZLED FIXTURE: VIL-SIGN-60W-WHT-DC-66MOD-STRING-KIT	FURNISHED BY OWNER, INSTALLED BY GC
L32	L32	WHITE LED AT FIXTURE LOW WALL	22 L.F.	NOVA FLEX - PRO SERIES FIXTURE: NF-CH-3525-2M WHITE	FURNISHED BY OWNER, INSTALLED BY GC
L49	L49	BRONZE SWOOP LIGHT	5	FIXTURE - TBD	DINING AREA - FURNISHED BY OWNER, INSTALLED BY GC
L50R	L50R	12" DIA. PENDANT	3	KAI PENDANT 2 BULB: LED EDISON LAMP.1173467	FURNISHED BY OWNER, INSTALLED BY GC
L100	L100	MICRO INVERTER	1	EVENLITE #PWII12LC (1)	FURNISHED BY OWNER, INSTALLED BY GC
	S	SPEAKER		-	FURNISHED BY MUSIC VENDOR, INSTALLED BY MUSIC VENDOR
EXTERIOR LIGHTING					
L40	L40	LINEAR LIGHT AT EXTERIOR STORAGE ROOM	1	COOPER MX-4VT2-LD4-6-DR-UNV-L840-CD1-WL-U	FURNISHED BY OWNER, INSTALLED BY GC
L85		WALL MOUNTED OVER SERVICE DOOR FIXTURE	1	ORACLE: OWP-FC-116-LED-3500L-DIM10-MVOLT-50K-BK	OVER EXTERIOR SERVICE DOOR. REFER ELEVATIONS FOR HEIGHT FURNISHED BY OWNER, INSTALLED BY GC
L86		NAVILITE EMERGENCY LIGHT	4	EXITRONIX MLED1-G-WP	OVER EXTERIOR ENTRANCE & SERVICE DOORS. REFER ELEVATIONS FOR HEIGHT. FURNISHED BY OWNER, INSTALLED BY GC
L86 AEM		EXTERIOR RECESS EMERGENCY LIGHT	0	ELITE HOUSING: LD6IC-AT LED MODULE: ELITE LED LIGHTING WET LOCATION: RL607-14W-120-FL-30K-SN-SN -WET LOCATION	EMERGENCY RECESSED DOWN LIGHT - NORMALLY ON INVERTER UNIT - ISOLITE, IMI-12-LC-V1 FURNISHED BY OWNER INSTALLED BY GC
L90 BL		DECORATIVE LED WALL SCONCE	4	HINKLEY LIGHTING, ATLANTIS; BLACK; 1649SK-LED	AT ENTRY DOORS. REFER ELEVATIONS FOR HEIGHT FURNISHED BY OWNER, INSTALLED BY GC
L91		DECORATIVE LED WALL SCONCE	0	HINKLEY LIGHTING, SILO; BRONZE; 13594AZ-LL; LED	ALONG REAR EIFS BAND FURNISHED BY OWNER, INSTALLED BY GC
L92		WALL MOUNTED OVER SERVICE DOOR FIXTURE	0	LITHONIA LIGHTING WPX1 LED P2 40K MVOLT DDBXD M4	OVER DRIVE THRU AREA SERVICE DOOR FURNISHED BY OWNER, INSTALLED BY GC
L97		LED MOTION SECURITY FLOODLIGHT	3	LITHONIA LIGHTING HGX LED 2RH 40K 120 MO DDB M2	INTERIOR LIGHT SENSOR TO BE WALL MOUNTED AT +142" FURNISHED BY OWNER, INSTALLED BY GC

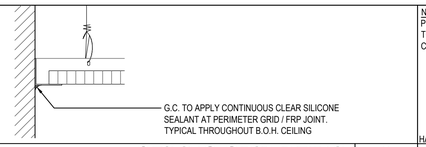
NIGHT LIGHTING REQUIREMENTS: "NL" DESIGNATION INDICATED NIGHT LIGHT ON UNSWITCHED CIRCUIT.
1. ONE NL BY SERVICE COUNTER, POS / CASHIER
2. ONE NL BY POS / CASHIER AT DRIVE THRU STATION IF APPLICABLE
3. ONE NL BY EACH EXIT DOORS IN DINNING ROOM & BACK OF HOUSE

CEILING SCHEDULE

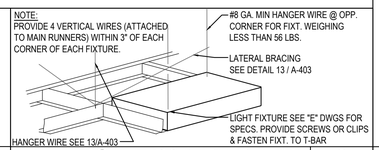
INSTALLED AND FURNISHED BY, G.C. UNLESS NOTED OTHERWISE

NO	MANUFACTURER	DESCRIPTION	MATERIAL	FINISH
C1	ARMSTRONG	2' X 2' SUSPENDED T-BAR GRID CEILING SYSTEM	OPTIMA 9/16" SQUARE TEGULAR ITEM # 3251	SUSPENSION SYSTEM: 9/16" SUPRAFINE; COLOR: BLIZZARD WHITE CONTACT: SHERRY BRUNT (1-800-442-4212)
C2	USG	2' X 4' SUSPENDED T-BAR GRID CEILING SYSTEM	"VINYL ROCK" VINYL CLAD GYP. BD PANELS	SMOOTH AND WASHABLE WHITE
C3	GOLD BOND	MONOLITHIC CEILING ON METAL FRAMING	5/8" GYP. BD.	SMOOTH PAINT - WHITE AND WASHABLE

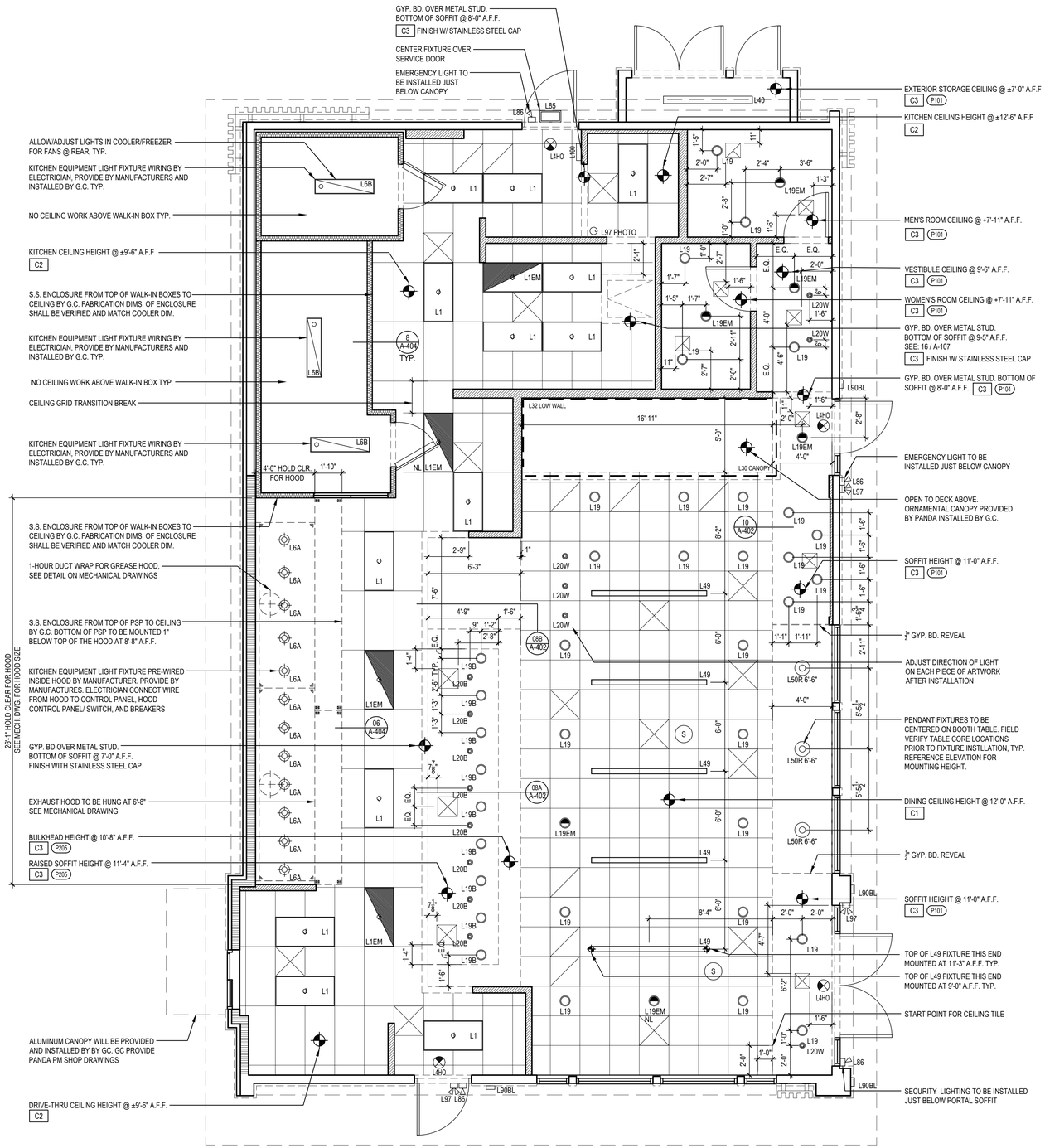
SEE SHEET A-103 FOR PAINT SCHEDULE



CEILING GRID DETAIL 3 — Scale= NTS — A-105



LIGHT FIXTURE DETAIL 2 — Scale= NTS — A-105



REFLECTED CEILING PLAN 1 — Scale= 1/4" = 1'-0" — A-105

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idGROUP

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REGISTERED ARCHITECT
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NO. 106109
STATE OF TENNESSEE
10-20-22

PANDA EXPRESS

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CLARKSVILLE, TN 37040

A-105

REFLECTED CEILING PLAN

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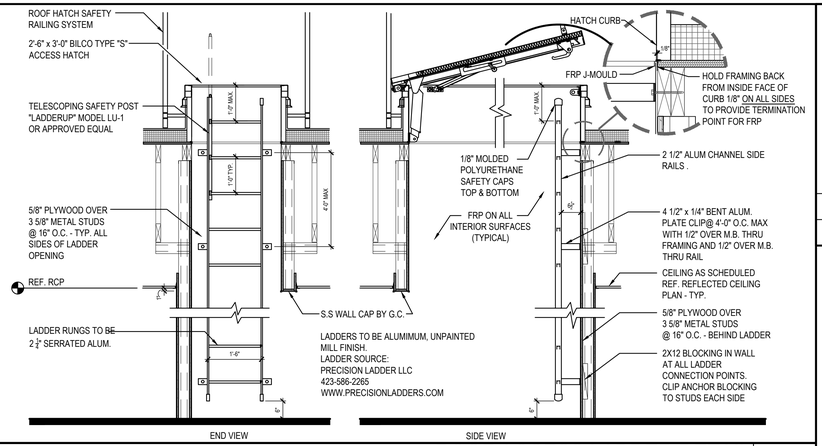
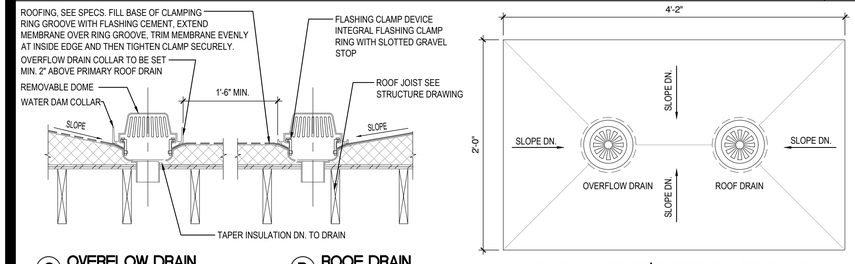


ROOF ACCESS LADDER DETAIL 16
Scale= 1/4" = 1'-0" A-107

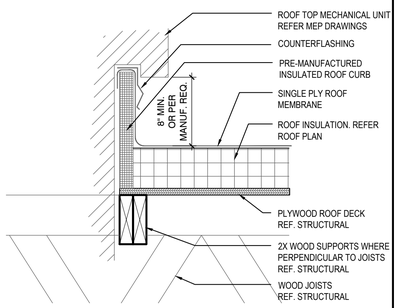


C OVERFLOW DRAIN
NOTE:
WHERE INSULATION IS SPECIFIED PROVIDE AN ADJUSTABLE COLLAR AND SET IN ACCORDANCE TO THE MANUFACTURER'S SPECIFICATIONS.

B ROOF DRAIN
PROVIDE JAY R. SMITH (OR EQUAL) ROOF DRAIN AND OVERFLOW DRAIN -CAST IRON BODY -POLYETHYLENE DOME

A PLAN-ROOF/OVERFLOW DRAIN WELL

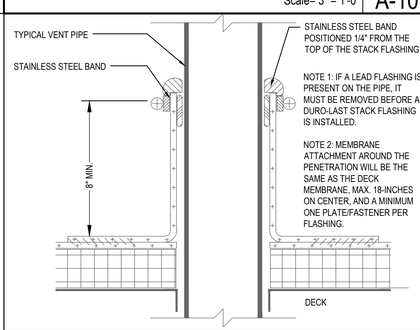
ROOF DRAIN DETAIL 15
Scale= NTS A-107



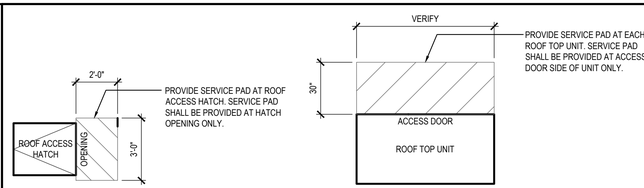
MECHANICAL CURB DETAIL 18
Scale= NTS A-107

NOT USED 14
Scale= 3" = 1'-0" A-107

NOT USED 17
Scale= NTS A-107



PLUMBING VENT DETAIL 13
Scale= NTS A-107



ROOF WALKWAY PAD DETAIL 4
Scale= NTS A-107

ROOF PLAN NOTES:

1. WHITE, SINGLE-PLY, PVC 40MIL MECHANICALLY FASTENED ROOF MEMBRANE, AS MANUFACTURED BY DURO-LAST ROOFING, INC. NO ALTERNATES WILL BE ACCEPTED. PROVIDE STANDARD 15 YEAR WARRANTY.

2. +6" INDICATES APPROXIMATE ELEVATION OF THE TOP OF ROOF PLYWOOD SHEATHING AT PLYWOOD CRICKET. SEE TRUSS DRAWINGS FOR ACTUAL ROOF SLOPE. ALL ROOF ELEVATIONS ARE GIVEN FROM TOP OF INTERIOR CONCRETE FLOOR SLAB (U.O.N.). WHEN FLOOR SLAB STEPS, ELEVATIONS ARE REFERENCED FROM THE HIGHEST FINISHED FLOOR.

3. ANY PROJECTION THROUGH ROOF SHALL BE DETAILED PER THE SINGLE PLY ROOFING MANUFACTURER'S RECOMMENDED DETAILS.

4. ALL EXHAUST FANS AND AIR CONDITIONING EQUIPMENT DESIGNATIONS ARE TAKEN FROM MECHANICAL DRAWINGS.

5. NOT USED.

6. CONTRACTOR SHALL CONFIRM THAT ALL AREAS OF ROOF ARE PROVIDED WITH POSITIVE DRAINAGE.

7. ALL ROOF PENETRATIONS FOR PLUMBING VENTS, POWER CONDUITS, ETC. SHALL BE FLASHED PER BUILDING SPECIFICATIONS AND DETAILS. VENTS SHALL BE AT LEAST 10'-0" HORIZONTAL OR 3'-0" ABOVE OUTSIDE AIR INTAKES (A/C UNITS, MAKE-UP AIR).

8.CONTRACTOR BE RESPONSIBLE FOR COORDINATION OF SIZES AND LOCATIONS OF ROOF OPENINGS (VENTS, DUCTS, ETC.), PLATFORMS, BASES ETC. COORDINATE SIZES OF MECHANICAL EQUIPMENT PLATFORMS, BASES, ROOF EQUIPMENT PLATFORMS AND OPENINGS SHOWN ON DRAWINGS WITH EQUIPMENT BEING SUPPLIED. SEE TYPICAL DETAILS ON THIS SHEET ALSO COORDINATE INSTALLATION OF LIGHTING, POWER, CONVENIENCE OUTLETS ETC.

10. FOR ALL STRUCTURAL FRAMING MEMBERS, SIZES, AND ADDITIONAL INFORMATION, SEE STRUCTURAL DRAWINGS.

11. PROVIDE ROOF CRICKET AT MECHANICAL EQUIPMENT TO ASSURE POSITIVE ROOF DRAIN.

12. ALL ROOF EQUIPMENT TO BE SCREENED FROM PUBLIC VIEW.

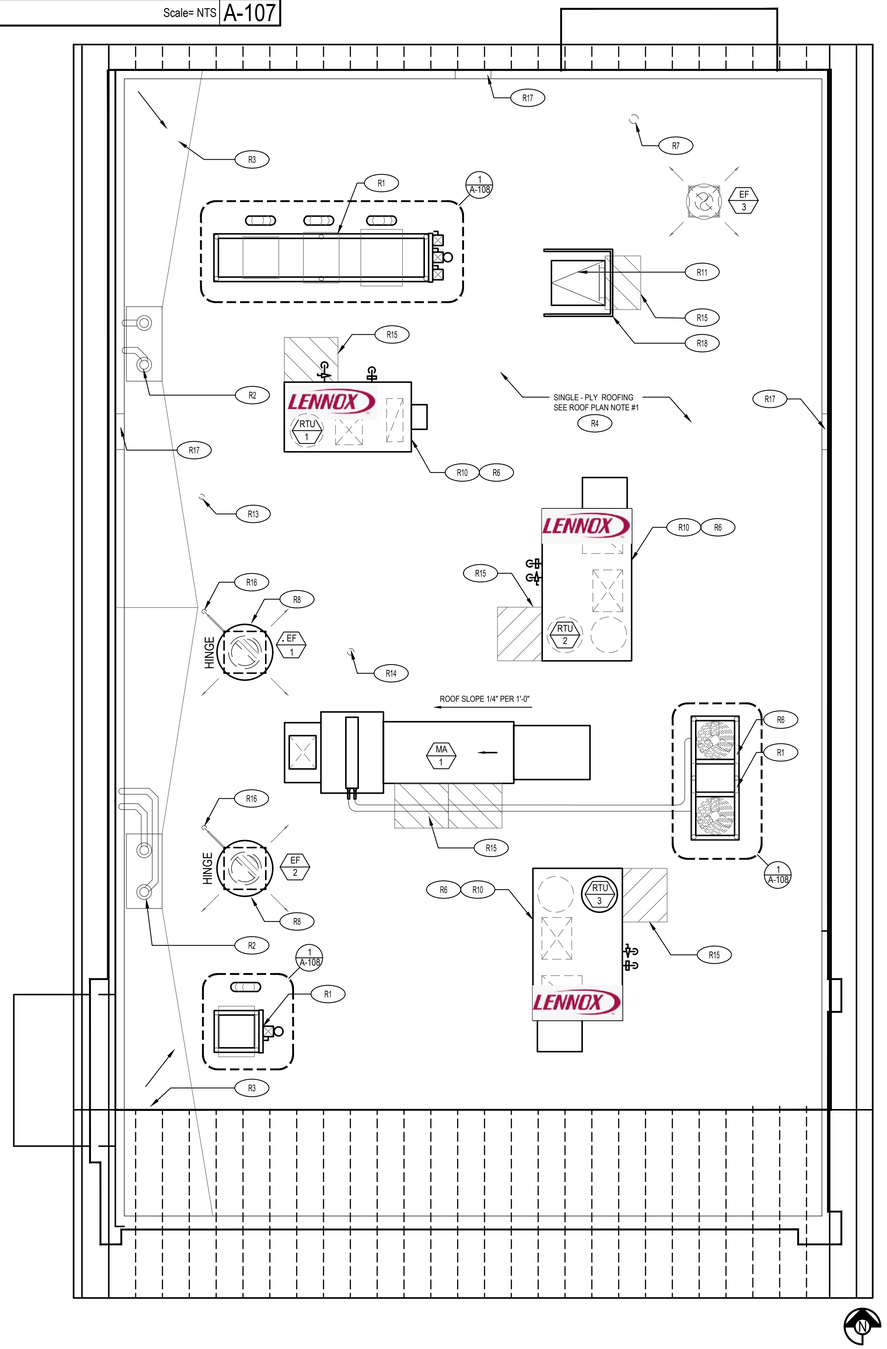
13. ROOFTOP EQUIPMENT TO BE LOCATED AT LEAST 42" MINIMUM FROM TOWERS FOR SERVICING

14. PROVIDE SERVICE PAD AT EACH UNIT ONLY AT SERVICE ACCESS DOOR

15. ALL GAS PIPING ON ROOF TO BE PAINTED SAFETY YELLOW

ROOF PLAN KEYNOTES:

- R1 REF: EQUIPMENT RACK (SEE SHEET A-108)
- R2 4" ROOF DRAIN AND OVERFLOW DRAIN (15 / A-107)
- R3 TAPERED ROOF INSULATION CRICKET TO ASSURE POSITIVE ROOF DRAINAGE
- R4 SINGLE - PLY ROOFING SEE ROOF PLAN NOTE #1
- R5 NOT USED
- R6 ROOF TOP MECHANICAL UNIT SEE MECHANICAL DRAWING
- R7 WATER HEATER VENT - SEE MEP PLANS. OFFSET VENTS AS REQUIRED TO MAINTAIN MIN. 10'-0" AWAY FROM AIR INTAKE SYSTEMS ON EQUIPMENT.
- R8 EXHAUST FAN
- R10 MECHANICAL UNIT CURB. SEE DETAIL 18/A-107
- R11 ROOF ACCESS HATCH LOCATE BETWEEN 2 ADJACENT TRUSSES (16 / A-107)
- R12 TOP OF PLATE - REF. STRUCTURAL
- R13 PLUMBING VENT (13 / A-107)
- R14 WEATHER PROOF HYDRANT
- R15 PROVIDE WALK-WAY PAD AS SHOWN, REFERENCE DETAIL 4/A-107
- R16 POWER SUPPLY LOCATION FOR ROOFTOP EXHAUST FANS FOR KITCHEN HOOD
- R17 SCUPPER LOCATION (09 / A-400)
- R18 PROVIDE SAFETY RAILING SYSTEM AT ROOF HATCH MFR.: BILCO; BIL-GUARD 2.0



ROOF PLAN 1
Scale= 1/4" = 1'-0" A-107

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CLARKSVILLE, TN 37040

A-107
ROOF PLAN

PANDA HOME 2600 R4

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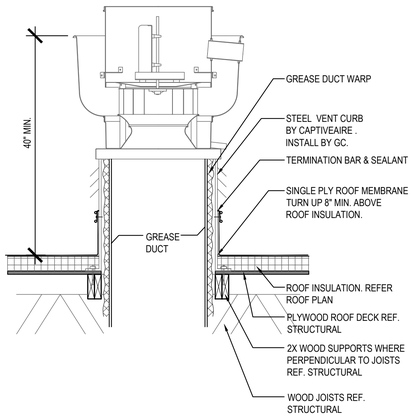
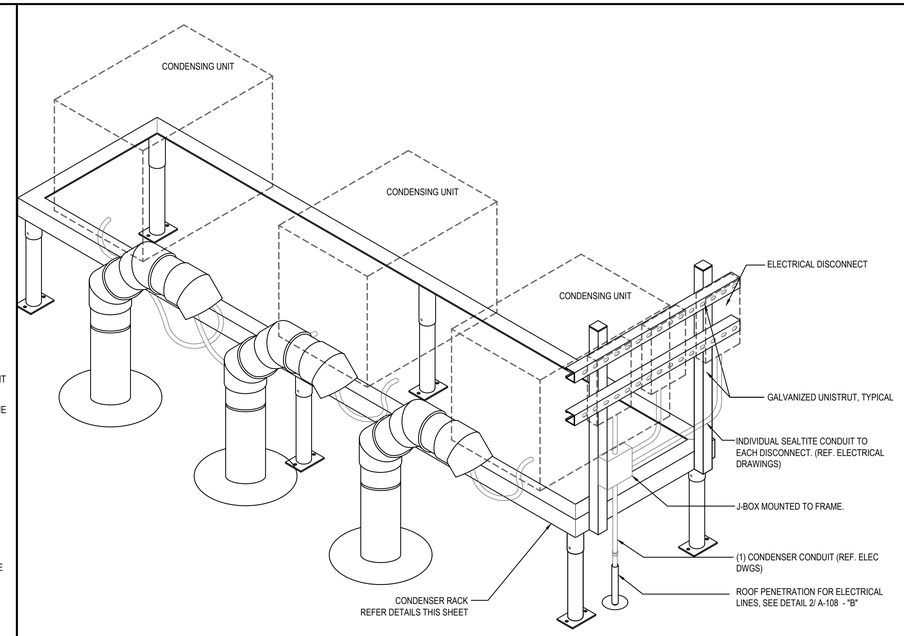


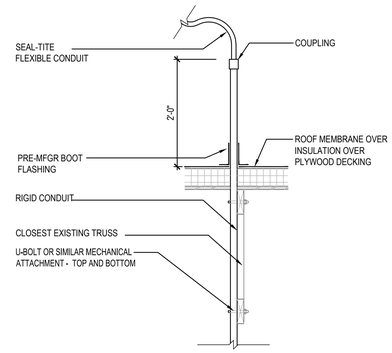
ROOF EXHAUST FAN 5

Scale= 1/4" = 1'-0" A-108



CONDENSER RACK ISOMETRIC 3

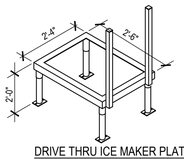
Scale= 3/4" = 1'-0" A-108



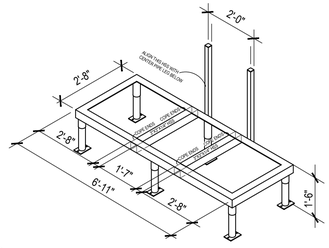
CONDITION "B" - AT CONDENSER ELECTRICAL LINES

ROOF PENETRATION DETAIL AT REF. / ELEC. LINES 2

Scale= 3/4" = 1'-0" A-108

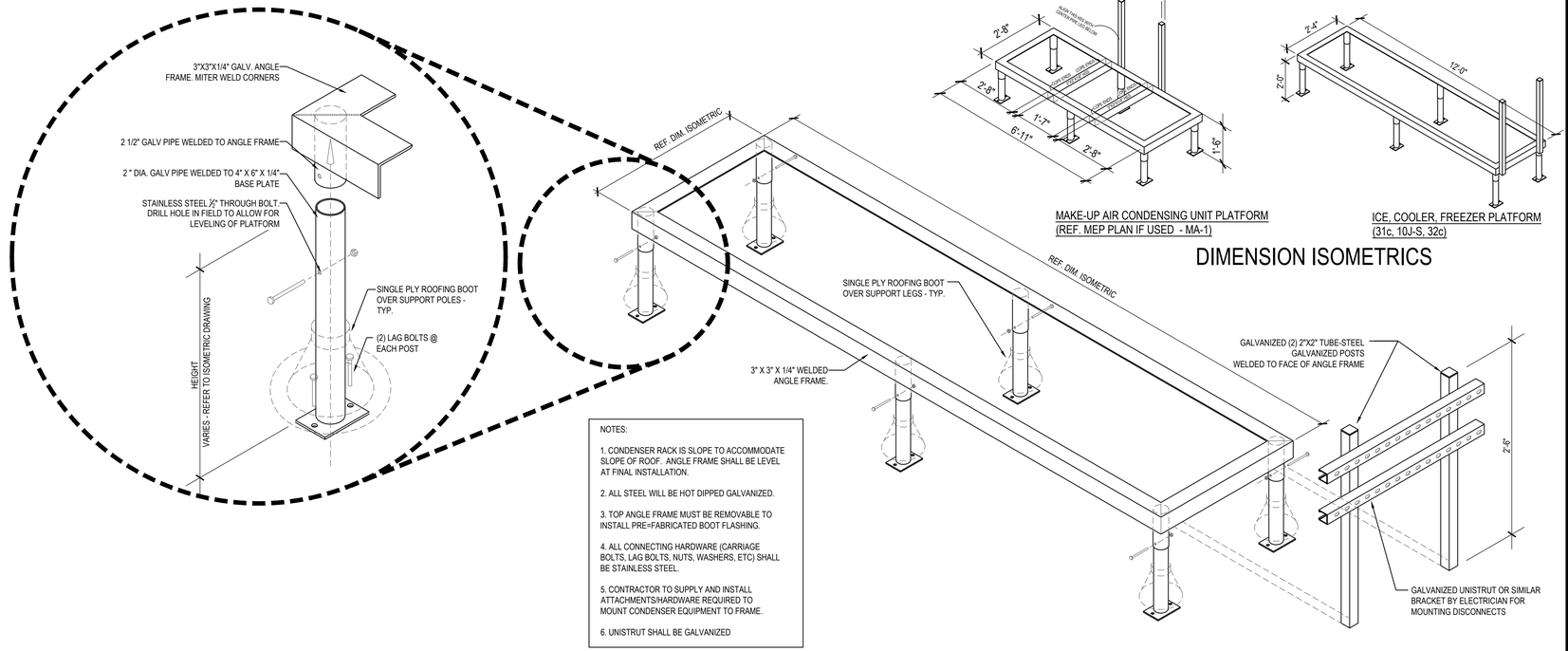


DRIVE THRU ICE MAKER PLATFORM



MAKE-UP AIR CONDENSING UNIT PLATFORM (REF. MEP PLAN IF USED - MA-1)

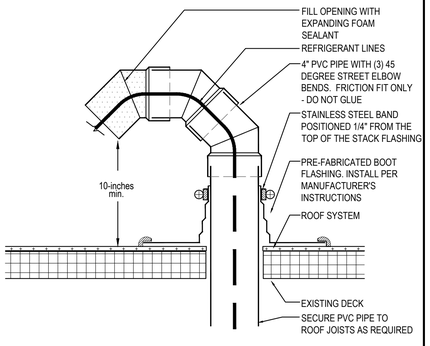
ICE, COOLER, FREEZER PLATFORM (31c, 10J-S, 32c)



NOTES:

1. CONDENSER RACK IS SLOPE TO ACCOMMODATE SLOPE OF ROOF. ANGLE FRAME SHALL BE LEVEL AT FINAL INSTALLATION.
2. ALL STEEL WILL BE HOT DIPPED GALVANIZED.
3. TOP ANGLE FRAME MUST BE REMOVABLE TO INSTALL PRE=FABRICATED BOOT FLASHING.
4. ALL CONNECTING HARDWARE (CARRIAGE BOLTS, LAG BOLTS, NUTS, WASHERS, ETC) SHALL BE STAINLESS STEEL.
5. CONTRACTOR TO SUPPLY AND INSTALL ATTACHMENTS/HARDWARE REQUIRED TO MOUNT CONDENSER EQUIPMENT TO FRAME.
6. UNISTRUT SHALL BE GALVANIZED

DIMENSION ISOMETRICS



PVC ROOF PENETRATION 4

Scale= 1/2" = 1'-0" A-108

FREEZER / COOLER / ICE MAKER CONDENSER RACK DETAILS 1

Scale= 3/4" = 1'-0" A-108

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PANDA STORE #: -
ARCH PROJECT #: 261-443

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CARRY D. MCLAIN
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AGRICULTURE
NO. 106103
STATE OF TENNESSEE

10-20-22

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A-108

CONDENSER RACK DETAIL

PANDA HOME 2600 R4

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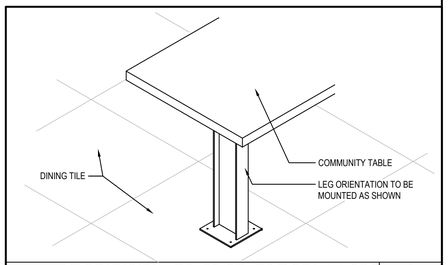
FURNITURE SCHEDULE

Item Code	Type	Material		L x W x H	
T-E1a2	COMMUNITY TABLE	QUARTZ - CORIAN LONDON SKY - COREDRILL	PANDA VENDOR	8'-0" L X 28" W X 34" H	
T-F1c	COMMUNITY TABLE	CELEBRATION TERRAZZO	PANDA VENDOR	8'-0" L X 28" W X 34" H	
T-B3b3	4 TOP TABLE	QUARTZ - CORIAN BROADWAY BLACK - COREDRILL	PANDA VENDOR	48" W X 24" D X 30" H	
T-B4a1	42" ROUND TABLE	QUARTZ - CORIAN LONDON SKY - COREDRILL	PANDA VENDOR	42" DIA. X 34" H	
T-B4d1	30" ROUND TABLE	QUARTZ - CORIAN LONDON SKY - COREDRILL	PANDA VENDOR	30" DIA. X 34" H	
T-C3b	4 TOP TABLE	LAMINATE - MANGALORE MANGO - COREDRILL	PANDA VENDOR	48" W X 24" D X 30" H	
T-C3d	2 TOP TABLE	LAMINATE - MANGALORE MANGO - COREDRILL	PANDA VENDOR	21" W X 24" D X 30" H	
C-A5b	SINGLE BOOTH	WALNUT HOME	PANDA VENDOR	41" W X 25 1/2" D X 17 1/2" H	
C-A5c	SINGLE BOOTH	WALNUT HOME	PANDA VENDOR	47" W X 25 1/2" D X 17 1/2" H	
C-A5d	SINGLE BOOTH	WALNUT HOME	PANDA VENDOR	59" W X 25 1/2" D X 17 1/2" H	
C-A5k	BACK TO BACK BOOTH	WALNUT HOME	PANDA VENDOR	47" W X 49 1/2" D X 17 1/2" H	
C-F1a	FAMILY BOOTH	WALNUT HOME	PANDA VENDOR	114" W X 47" D X 17 1/2" H	
B-S1a	I-BEAM BASE 34" H	HOT ROLL STEEL W/ LOW GLOSS CLEAR COAT	PANDA VENDOR	FOR 34" H TABLE	
B-S2a	3" FREE STANDING CRISS CROSS		PANDA VENDOR	FOR 30" ROUND TABLE	
B-S2b	3" FREE STANDING CRISS CROSS		PANDA VENDOR	FOR 21" X 24" TABLE	
B-S3a	3" BOLT DOWN		PANDA VENDOR	FOR 30" H TABLE	
B-S4a	3" CORE DRILL		PANDA VENDOR	FOR 30" H TABLE	
B-S5a	SIT DOWN BASE		PANDA VENDOR	FOR 34" H LEDGE TABLE	
B-B1	SPECIAL BRACKETS		PANDA VENDOR	FOR MODESTY PANEL	
F-B1	TRASH LINER W/ CASTERS		PANDA VENDOR		
F-A4c	LEFT BROOM HOLDER	OAK W/ LONDON SKY TOP	PANDA VENDOR	20" W X 27" D X 48 H	
F-A4d	RIGHT BROOM HOLDER	OAK W/ LONDON SKY TOP	PANDA VENDOR	20" W X 27" D X 48 H	
D-S1	FREE STANDING SHELF	WOOD SHELF W/ METAL FRAME	PANDA VENDOR	30" W X 12" D 66" H	
D-S2	FREE STANDING SHELF	WOOD SHELF W/ METAL FRAME	PANDA VENDOR	?? W X ?? D ?? H	
L-BMO	FRETWORK BOOTH DIVIDER	OAK W/ MEDALLION	PANDA VENDOR	46 3/4" W 4 1/2" D 133 3/4" H	
L-B1	LOW WALL		PANDA VENDOR		
L-B2	LOW WALL		PANDA VENDOR		

CHAIR SCHEDULE

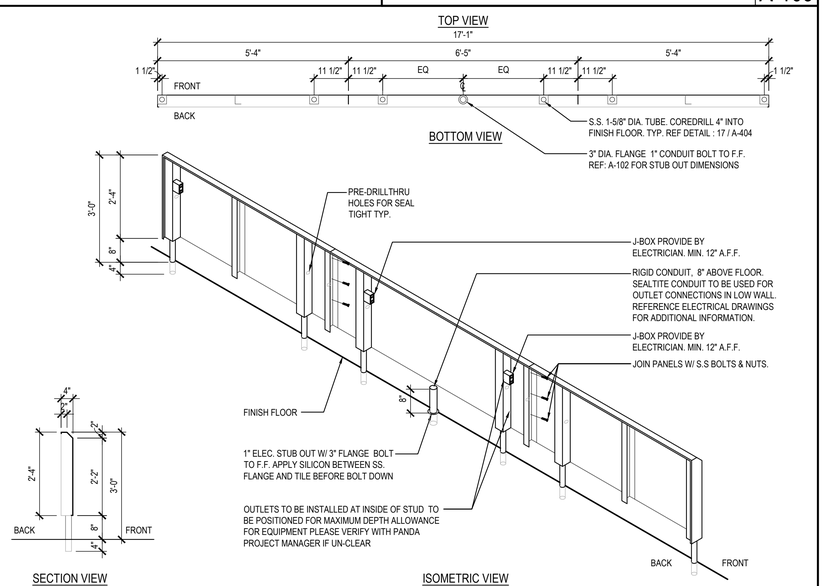
Item Code	Type	Material		L x W x H	
OAK PALLET					
C2t	PANDA SPRINT STOOL- NO BACK	WALNUT LAMINATE	PANDA VENDOR	22" H	
C2t1	PANDA SPRINT DINING W/ BACK	WALNUT LAMINATE	PANDA VENDOR	18" H	

NOTE:
PANDA TEAM TO SELECT CHAIR PALLET WITH MANUFACTURER



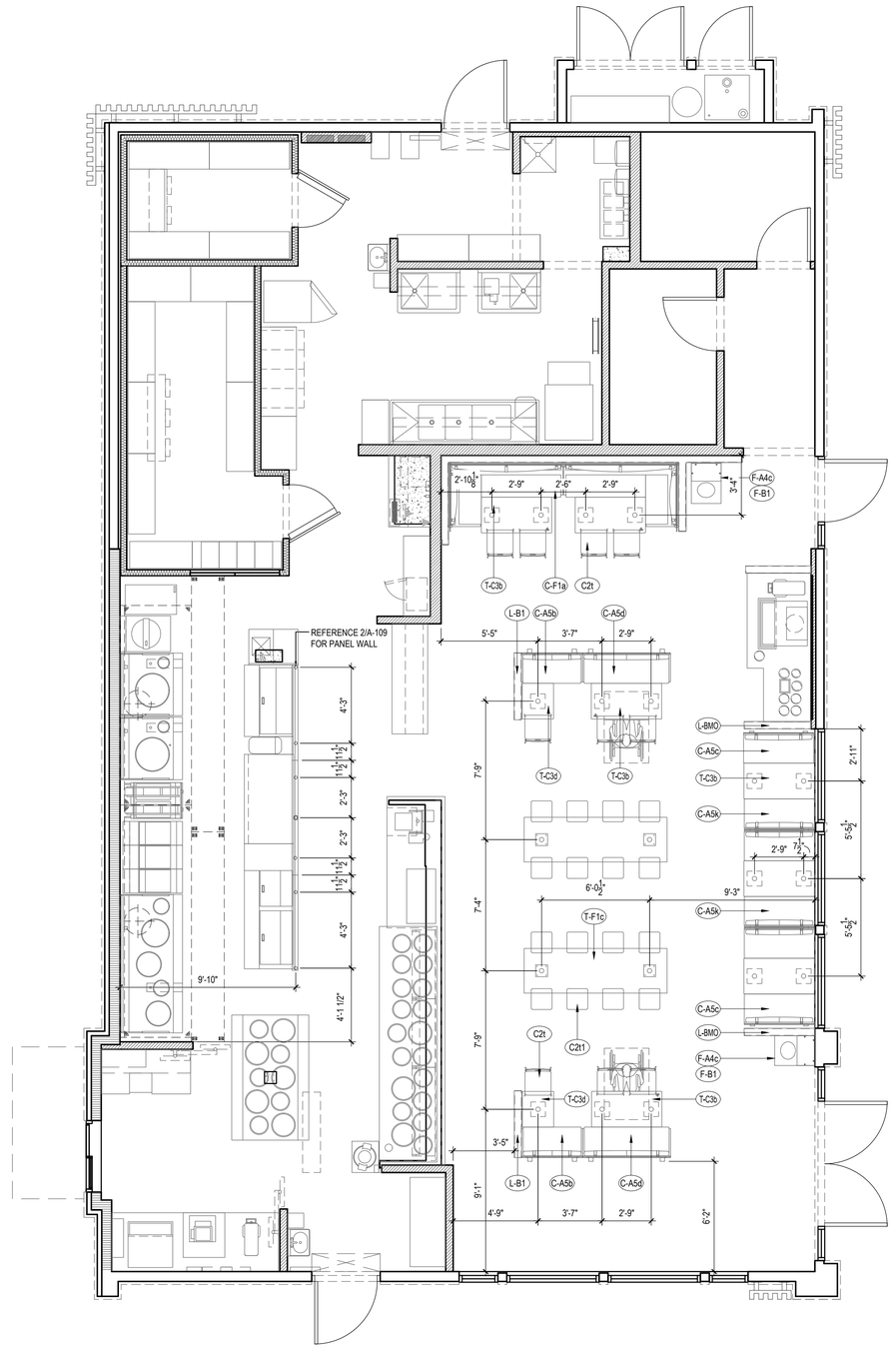
COMMUNITY TABLE ISOMETRIC 3

Scale= 3/4" = 1'-0" A-109



STAINLESS STEEL OUTLET PANEL 2

Scale= NTS A-109



NOTE:
DIMENSIONS ARE FROM INTERIOR WALL

REFER TO VENDOR PACKET FOR ADDITIONAL FURNITURE INFORMATION.

FINAL CORE DRILL LOCATIONS FOR FURNITURE / EQUIPMENT SHALL BE VERIFIED WITH PANDA EXPRESS DESIGN MANAGER PRIOR TO DRILLING.

FURNITURE LOCATION PLAN 1

Scale= 1/4" = 1'-0" A-109

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A-109

FURNITURE PLAN

ISSUE FOR BID 01-30-2023

PANDA HOME 2600 R4

EXTERIOR FINISH SCHEDULE

INSTALLED AND FURNISHED BY, G.C. UNLESS NOTED OTHERWISE

03-04-22

NO	MANUFACTURER	MFG#	COLOR	FINISH	NOTES
EIFS-1	STO	STOTHERM ESSENCE SYSTEM	SW 7646 FIRST STAR	FINE	BUILDING BODY NOTE: EIFS TO RECEIVE FINAL COAT OF STO-CORP STO-LASTIC ELASTOMERIC COATING TINTED TO DESIRED COLOR AS SCHEDULED
EIFS-2	STO	STOTHERM ESSENCE SYSTEM	SW 7069 IRON ORE	FINE	EIFS ACCENT BAND NOTE: EIFS TO RECEIVE FINAL COAT OF STO-CORP STO-LASTIC ELASTOMERIC COATING TINTED TO DESIRED COLOR AS SCHEDULED
EIFS-3	STO	STOTHERM ESSENCE SYSTEM	PANTONE COLOR 200C - RED	-	EIFS BEHIND TRELLIS NOTE: EIFS TO RECEIVE FINAL COAT OF STO-CORP STO-LASTIC ELASTOMERIC COATING TINTED TO DESIRED COLOR AS SCHEDULED
ST-1S	CORONADO STONE PRODUCTS	CHISELED STONE SILL	CHARCOAL	-	STONE CAP (3/8" VERTICAL JOINT - MORTAR TO MATCH STONE CAP)
ST-1	CORONADO STONE PRODUCTS	STRIP STONE	BLACK FOREST	-	WAINSCOT CONTACT: 864-962-1221 PROVIDE 3/8" MORTAR JOINTS. MFG.: ARGOS, COLOR: CHARCOAL
CD-1	FIBERON	WILDWOOD	BAMBOO	-	COMPOSITE DECKING - CONTACT: MARIA SCHOLLER 419-704-5924 EMAIL: maria.scholler@fibroncladding.com
MTL-2	PANDA VENDOR	ALLEN INDUSTRIES	PMS BLACK- 7C	SATIN FINISH	CANOPY W/ LED W/ DOWN LIGHT AROUND BUILDING
MTL-1	EXCEPTIONAL METALS	-	"PANDA EXPRESS IRON ORE"		CAP FLASHING

WINDOW SCHEDULE

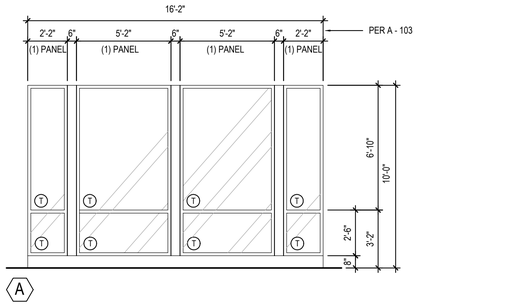
INSTALLED AND FURNISHED BY, G.C. UNLESS NOTED OTHERWISE

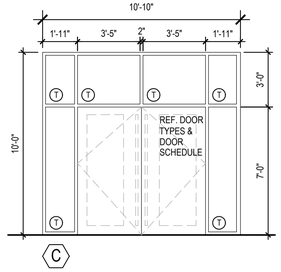
SYM	WIDTH	HEIGHT	GLASS	FRAME	REMARKS
A	16'-2" LIN. FEET	10'-0"	1" INSULATED GLASS	BLACK ANOD. ALUMINUM STOREFRONT	1" INSULATED GLAZING, IN 4.5" X 2" IN ANODIZED ALUMINUM FRAME REFER WINDOW TYPES FOR INDIVIDUAL SIZES
B	16'-9" LIN. FEET	6'-10"	1" INSULATED GLASS	BLACK ANOD. ALUMINUM STOREFRONT	1" INSULATED GLAZING, IN 4.5" X 2" IN ANODIZED ALUMINUM FRAME REFER WINDOW TYPES FOR INDIVIDUAL SIZES
C	10'-10"	10'-0"	1" INSULATED GLASS	BLACK ANOD. ALUMINUM STOREFRONT	KAWNEER CURTAIN WALL 1620 SYSTEM WITH 1" INSULATED GLAZING, IN 6" X 2" IN ANODIZED ALUMINUM FRAME MOON GATE TO CONNECT WITH KAWNEER ATTACHMENT BRACKET 834-745.
D	5'-2"	10'-0"	1" INSULATED GLASS	BLACK ALUMINUM STOREFRONT	KAWNEER CURTAIN WALL 1620 SYSTEM WITH 1" INSULATED GLAZING, IN 6" X 2" IN ANODIZED ALUMINUM FRAME MOON GATE TO CONNECT WITH KAWNEER ATTACHMENT BRACKET 834-745.
E	4'-0"	59.5"	TEMPERED GLASS	BLACK ANODIZED ALUMINUM	QUIK-SERV ~~(NON-HEATED AIR CURTAIN OR~~ HEATED AIR CURTAIN , ROUGH OPENING 83" X 60" SEE ADDITIONAL NOTE # 5. CONTACT: WADE ARNOLD, 800-388-8307

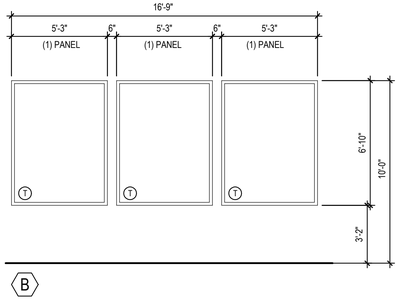
NOTES

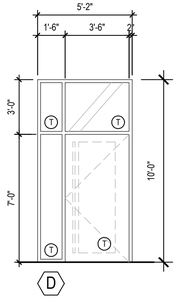
1. INSULATING GLASS SOLARBAN 60 LOW E: WINTER U=0.29 SHGC: 0.25 VIS TRANS: 35%
2. DOORS: FULL GLAZED DOORS W/10" KICK BASE, ANODIZED ALUM FINISH. REFER HARDWARE SCHEDULE.
3. WINDOW DIMENSIONS ARE FOR BIDDING PURPOSES ONLY. G.C. TO VERIFY ACTUAL WINDOW DIMENSIONS PRIOR TO FABRICATION INSTALLATION.
4. GLASS FACADE AND ENTRY DOORS TO BE DESIGNED, DETAILED, FACTORY FABRICATED AND SITE ASSEMBLED AND ERECTED.
5. MANUFACTURER: QUIK-SERV, MODEL SST-4860E WITH THRU-BEAM PHOTO-ELECTRIC BAR. REGIONAL APPLICATION WITH ~~CHF-25 NON HEATED AIR CURTAIN OR~~ CHF-25 HEATED AIR CURTAIN. TYPE OF AIR CURTAIN LISTED ON WINDOW SCHEDULE.
6. WINDOW SYSTEM SHALL COMPLY WITH APPLICABLE SECTION AND CHAPTER 0F BUILDING CODE.

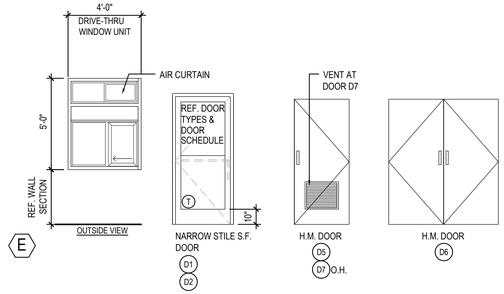
(T) TEMPERED GLASS







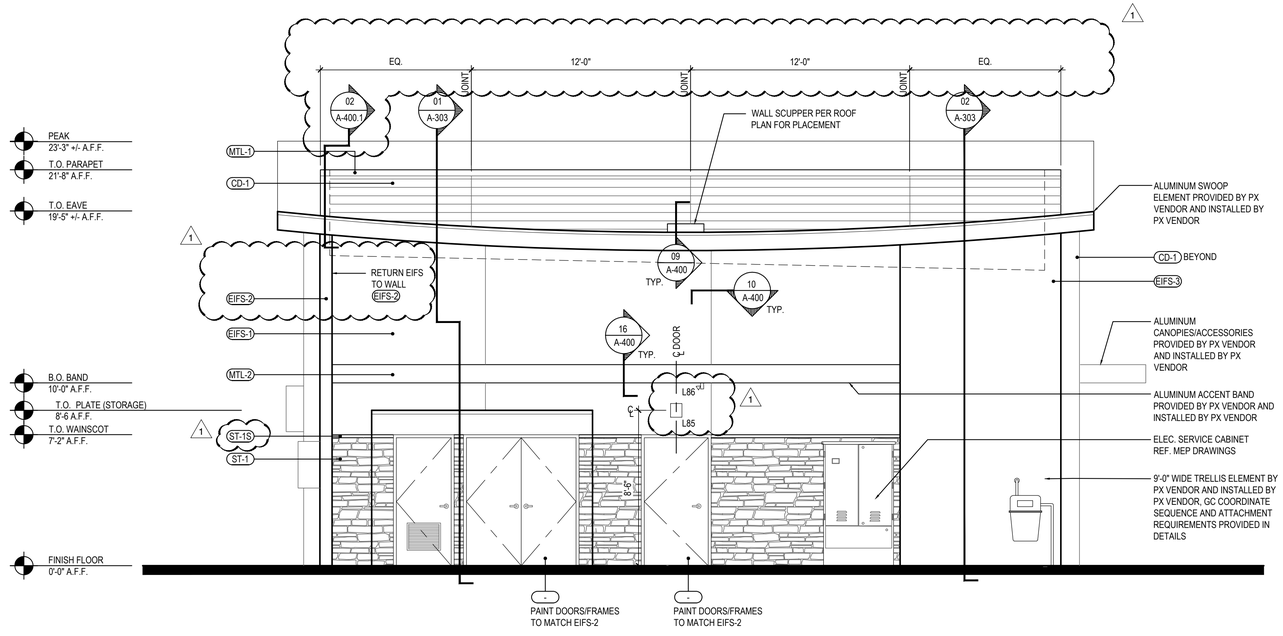




WINDOW AND DOOR ELEVATIONS

3

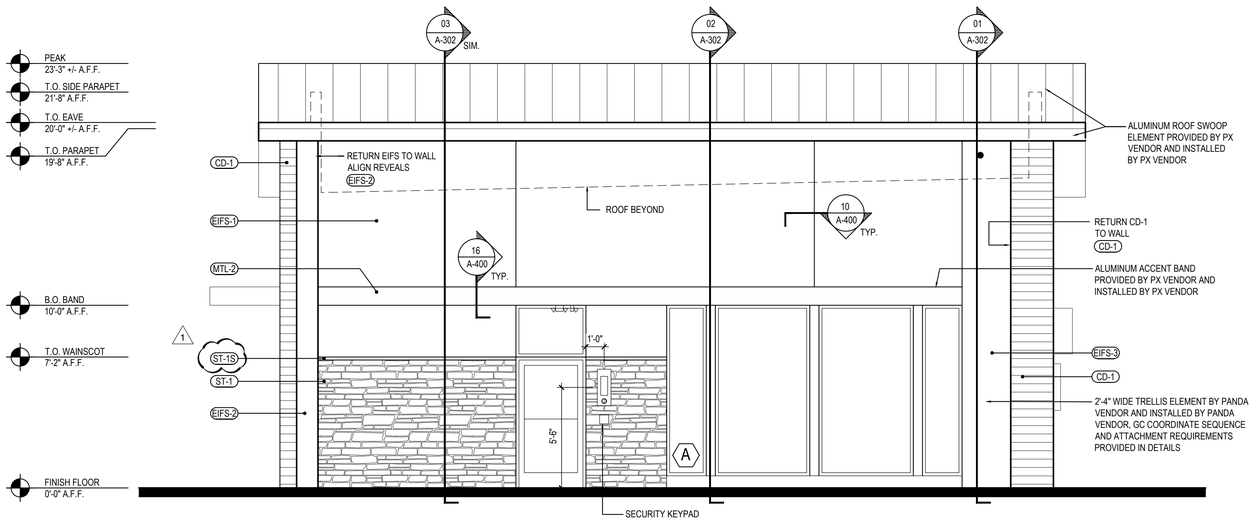
Scale= NTS | A-200



NORTH ELEVATION

2

Scale= 1/4" = 1'-0" | A-200



SOUTH ELEVATION

1

Scale= 1/4" = 1'-0" | A-200

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EXTERIOR ELEVATIONS

PANDA HOME 2600 R4

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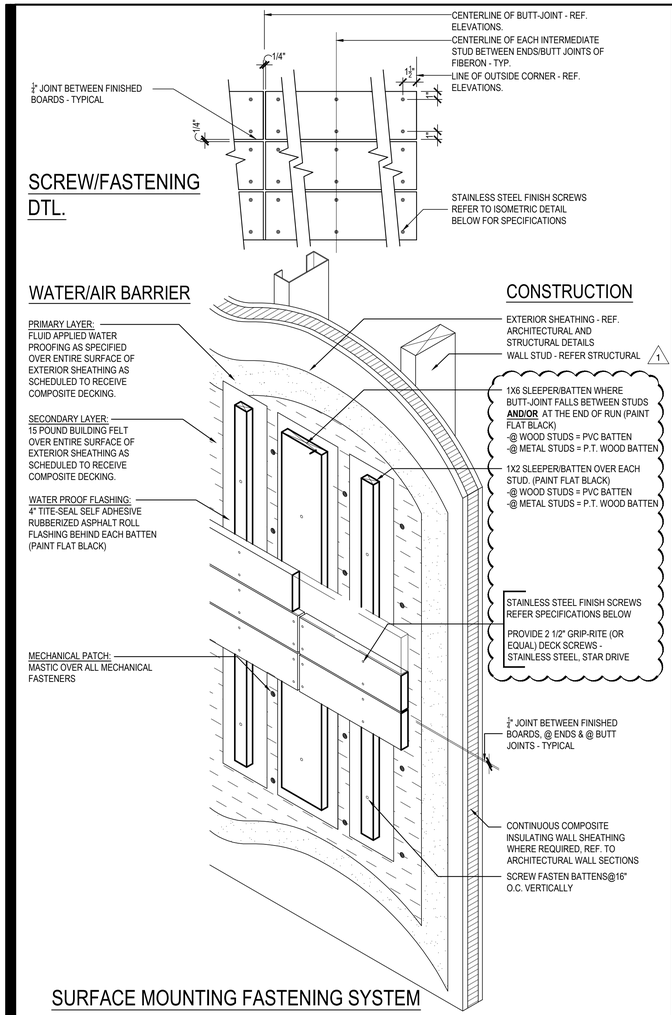


SCREW/FASTENING DTL.

WATER/AIR BARRIER

PRIMARY LAYER:
FLUID APPLIED WATER PROOFING AS SPECIFIED OVER ENTIRE SURFACE OF EXTERIOR SHEATHING AS SCHEDULED TO RECEIVE COMPOSITE DECKING.

SECONDARY LAYER:
15 POUND BUILDING FELT OVER ENTIRE SURFACE OF EXTERIOR SHEATHING AS SCHEDULED TO RECEIVE COMPOSITE DECKING.

WATER PROOF FLASHING:
4" TITE-SEAL SELF ADHESIVE RUBBERIZED ASPHALT ROLL FLASHING BEHIND EACH BATTEN (PAINT FLAT BLACK)

MECHANICAL PATCH:
MASTIC OVER ALL MECHANICAL FASTENERS

CONSTRUCTION

EXTERIOR SHEATHING - REF. ARCHITECTURAL AND STRUCTURAL DETAILS

WALL STUD - REFER STRUCTURAL 1

1X6 SLEEPER/BATTEN WHERE BUTT-JOINT FALLS BETWEEN STUDS **AND/OR** AT THE END OF RUN (PAINT FLAT BLACK)
-@ WOOD STUDS = PVC BATTEN
-@ METAL STUDS = P.T. WOOD BATTEN

1X2 SLEEPER/BATTEN OVER EACH STUD. (PAINT FLAT BLACK)
-@ WOOD STUDS = PVC BATTEN
-@ METAL STUDS = P.T. WOOD BATTEN

STAINLESS STEEL FINISH SCREWS REFER SPECIFICATIONS BELOW

PROVIDE 2 1/2" GRIP-RITE (OR EQUAL) DECK SCREWS - STAINLESS STEEL, STAR DRIVE

¾" JOINT BETWEEN FINISHED BOARDS, @ ENDS & @ BUTT JOINTS - TYPICAL

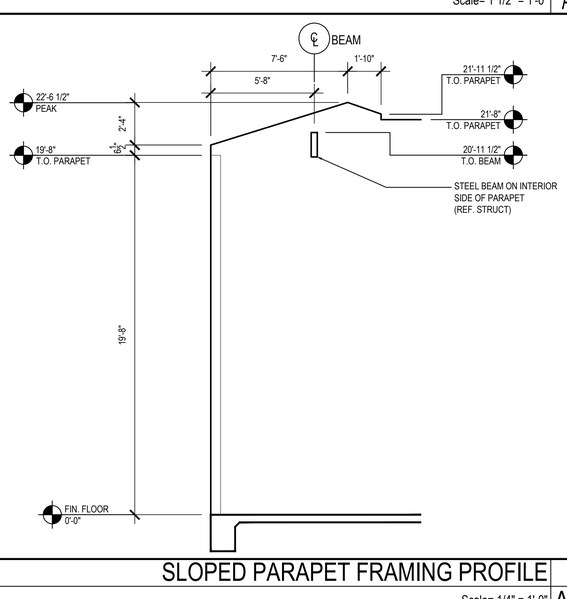
CONTINUOUS COMPOSITE INSULATING WALL SHEATHING WHERE REQUIRED, REF. TO ARCHITECTURAL WALL SECTIONS

SCREW FASTEN BATTENS@16" O.C. VERTICALLY

SURFACE MOUNTING FASTENING SYSTEM

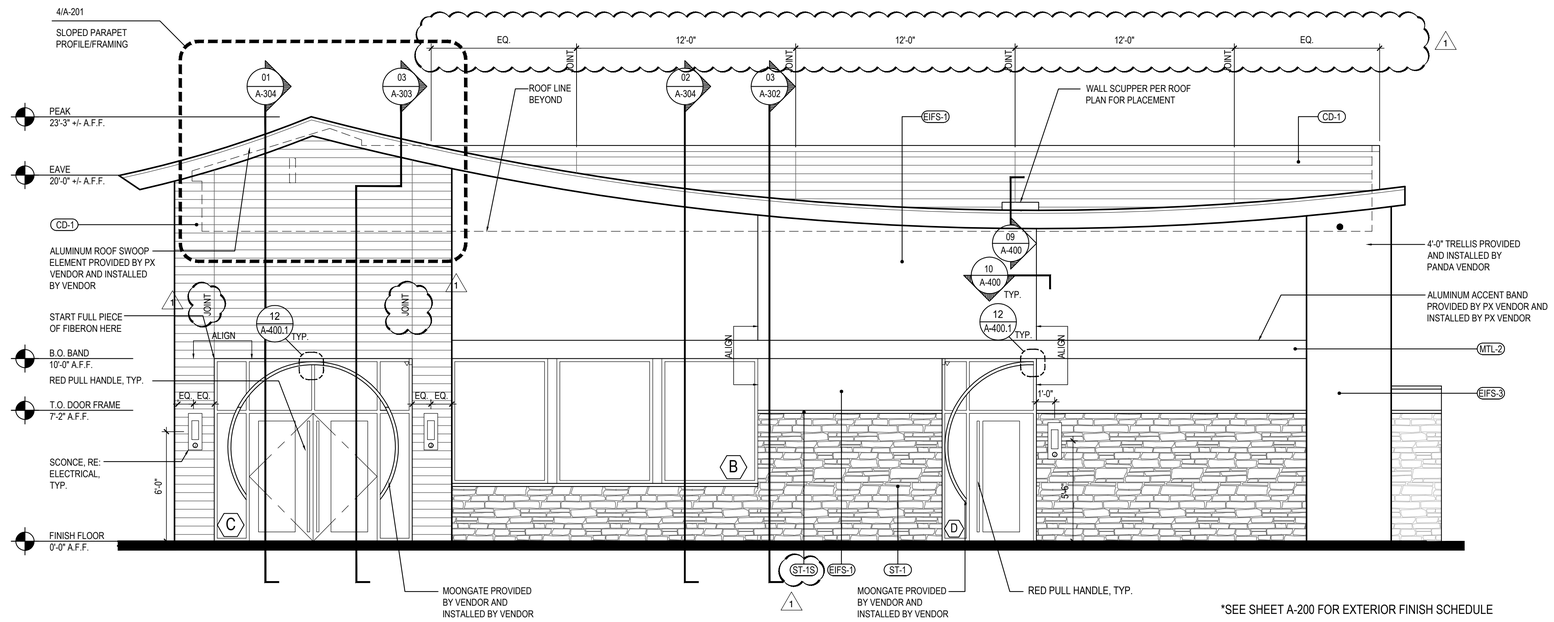
COMPOSITE DECK FASTENING & WATER PROOFING 3

Scale= 1 1/2" = 1'-0" A-201



SLOPED PARAPET FRAMING PROFILE 4

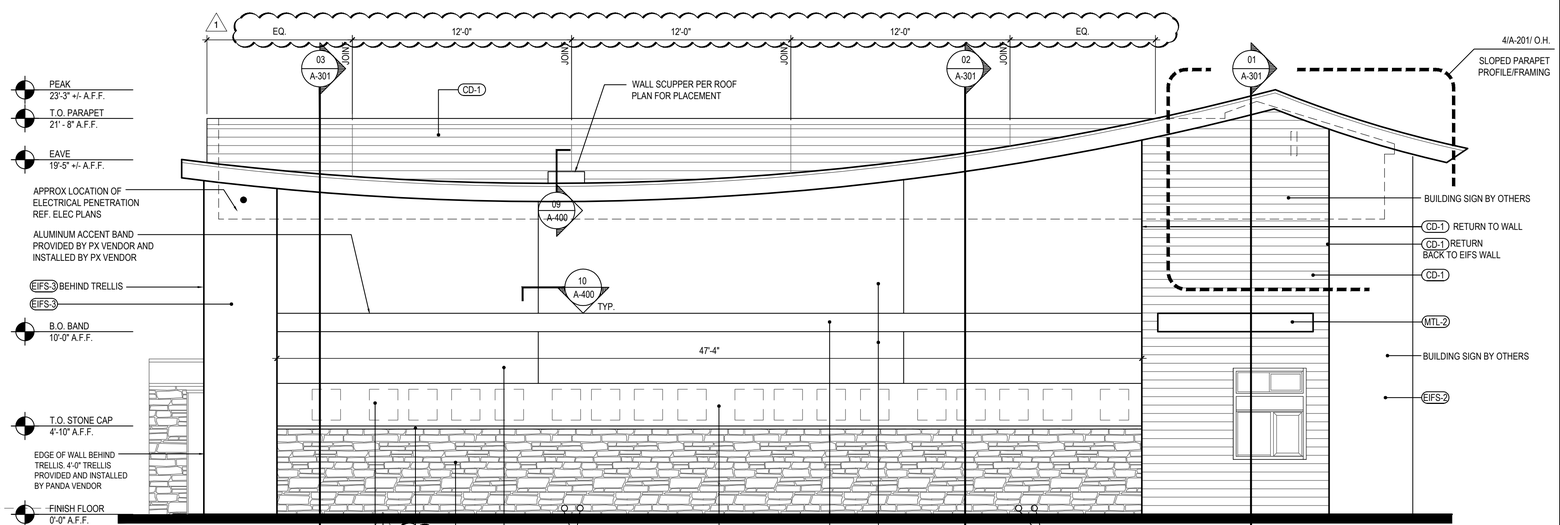
Scale= 1/4" = 1'-0" A-201



*SEE SHEET A-200 FOR EXTERIOR FINISH SCHEDULE

EAST ELEVATION 2

Scale= 1/4" = 1'-0" A-201



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WEST ELEVATION 1

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EXTERIOR ELEVATIONS

PANDA HOME 2600 R4

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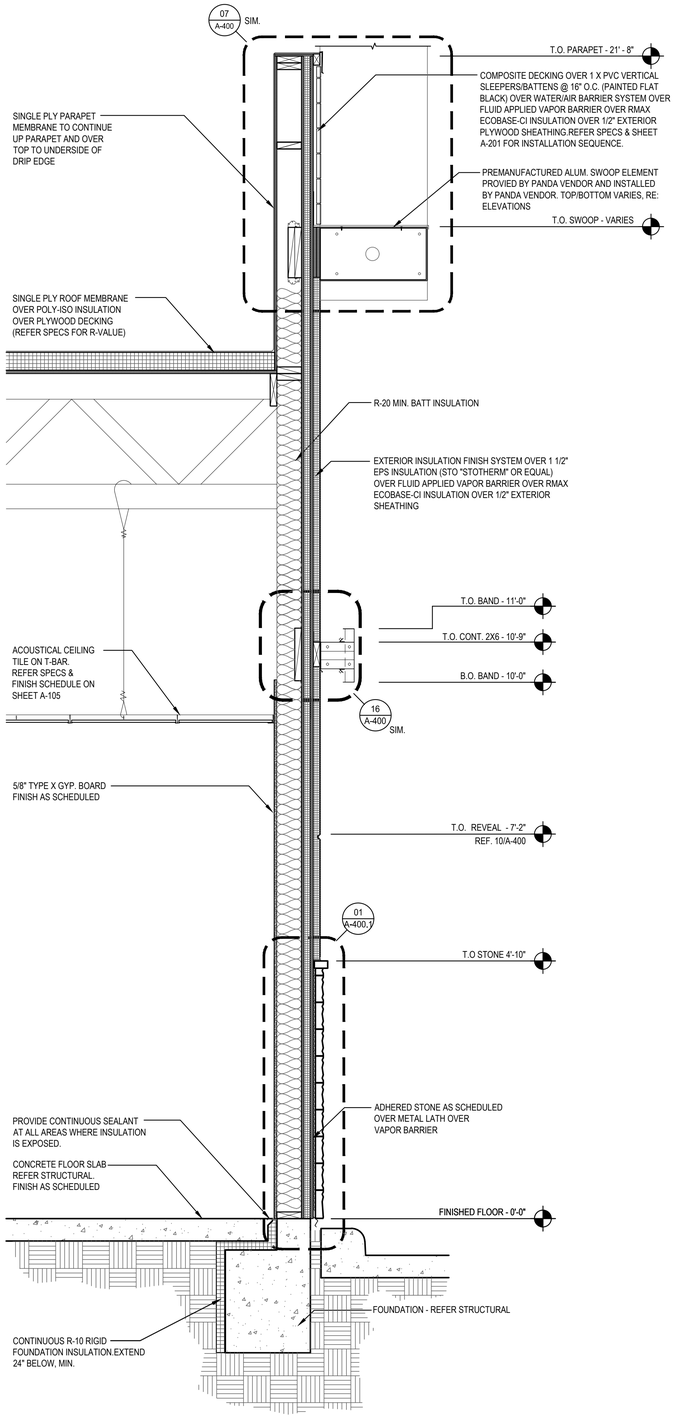
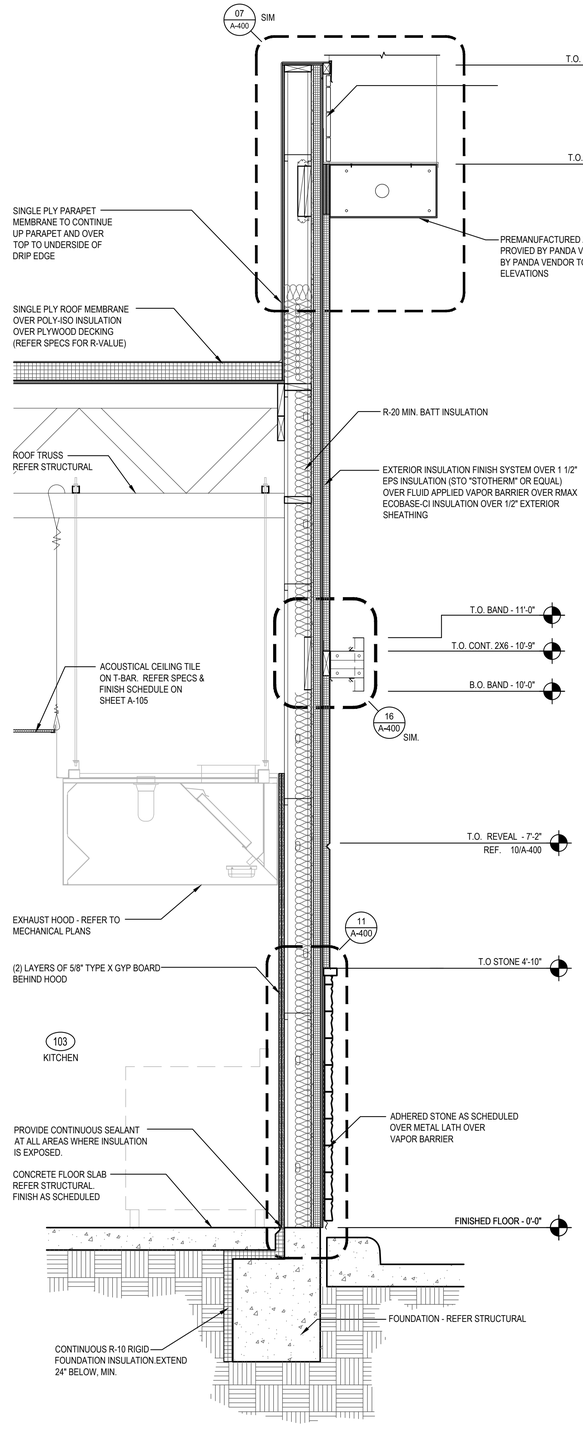
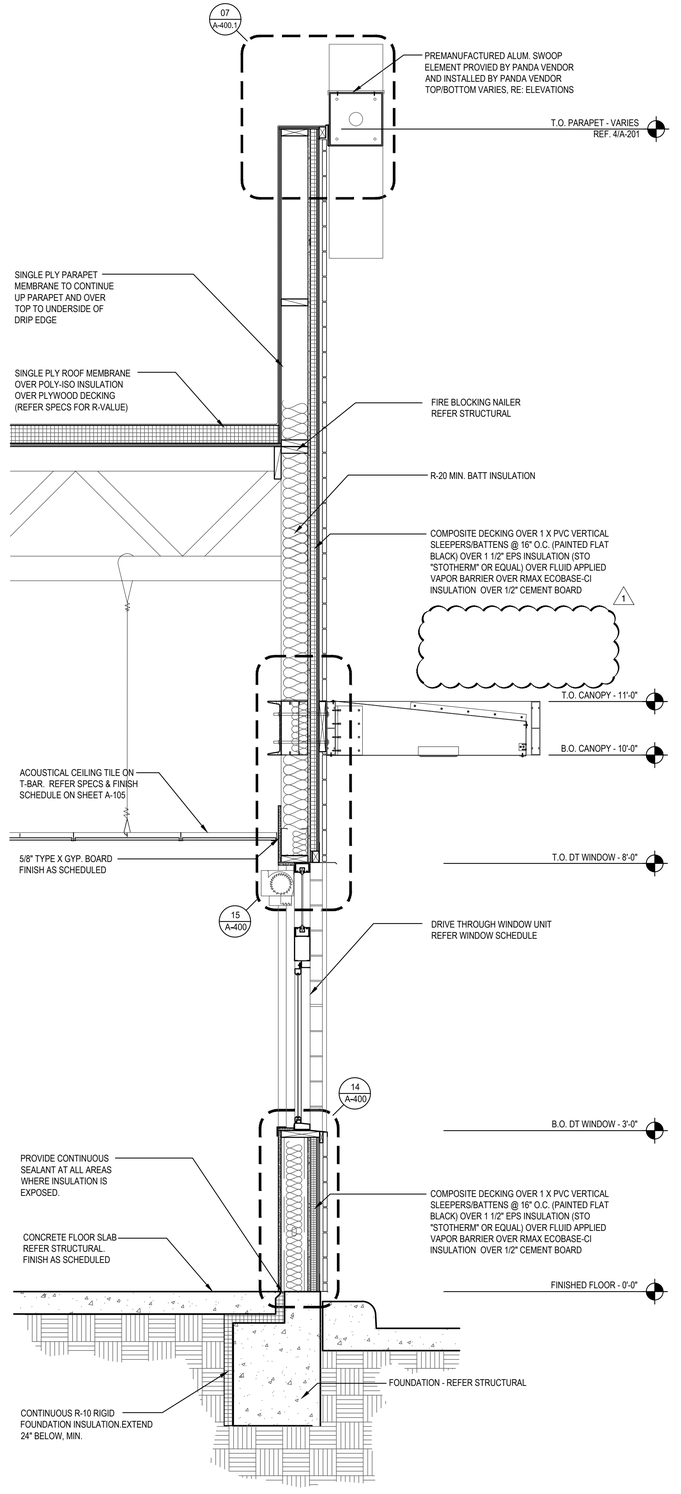


WALL SECTION 3
Scale= 3/4" = 1'-0" A-301



WALL SECTION 2
Scale= 3/4" = 1'-0" A-301



WALL SECTION 1
Scale= 3/4" = 1'-0" A-301

ISSUE FOR BID 01-30-2023

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

1	OWNER REVISIONS	01-30-23

ISSUE DATE:

	ISSUE FOR PERMIT	10-20-22
	ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

idGROUP

CARRY D. McLAN
REGISTERED ARCHITECT
AGRICULTURE
NO. 106159
STATE OF TENNESSEE
10-20-22

PANDA EXPRESS

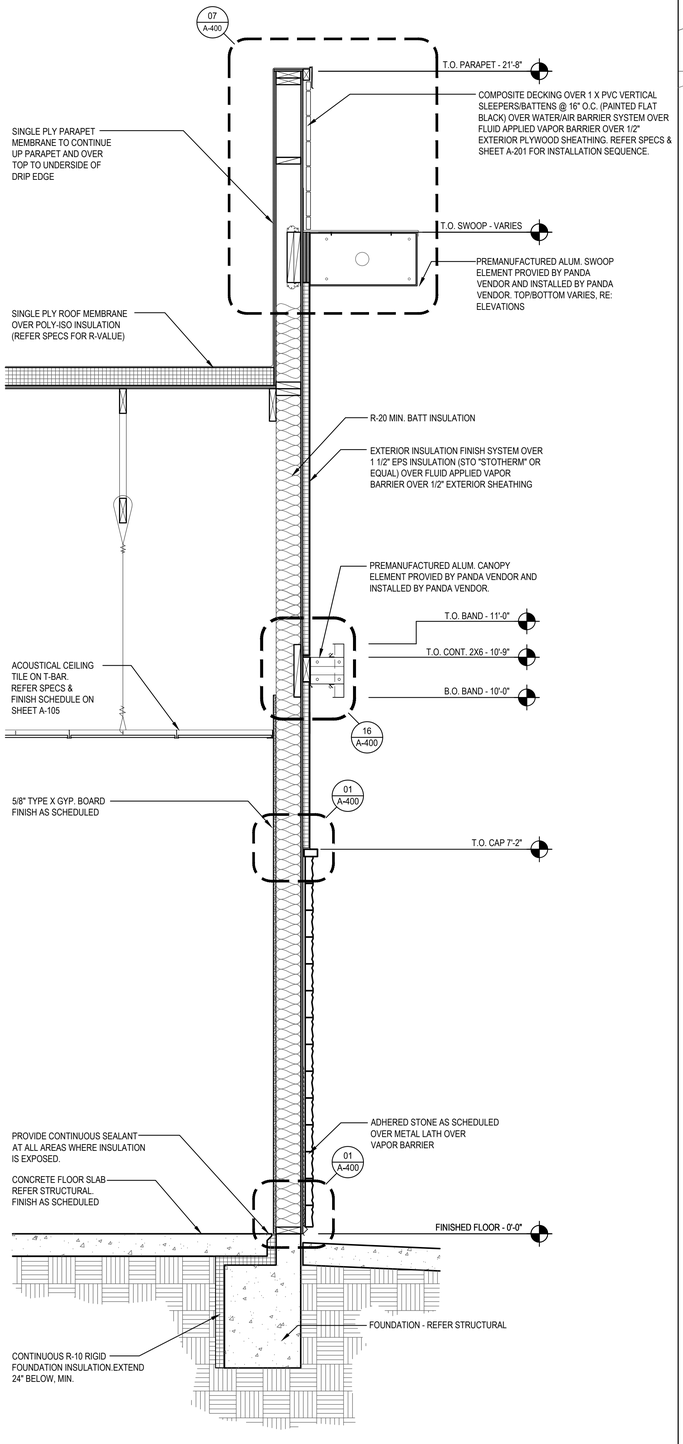
PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

A-301

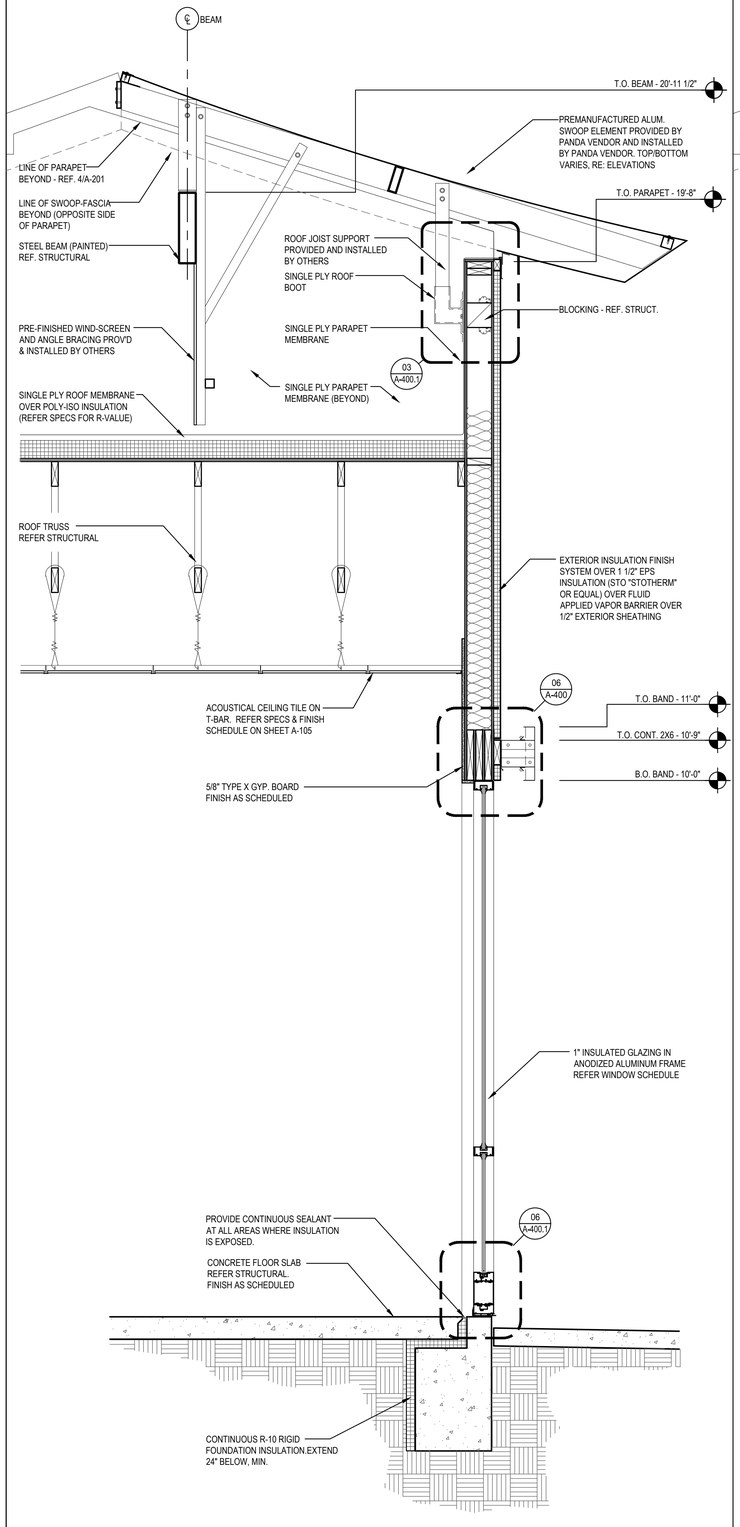
WALL SECTIONS

PANDA HOME 2600 R4

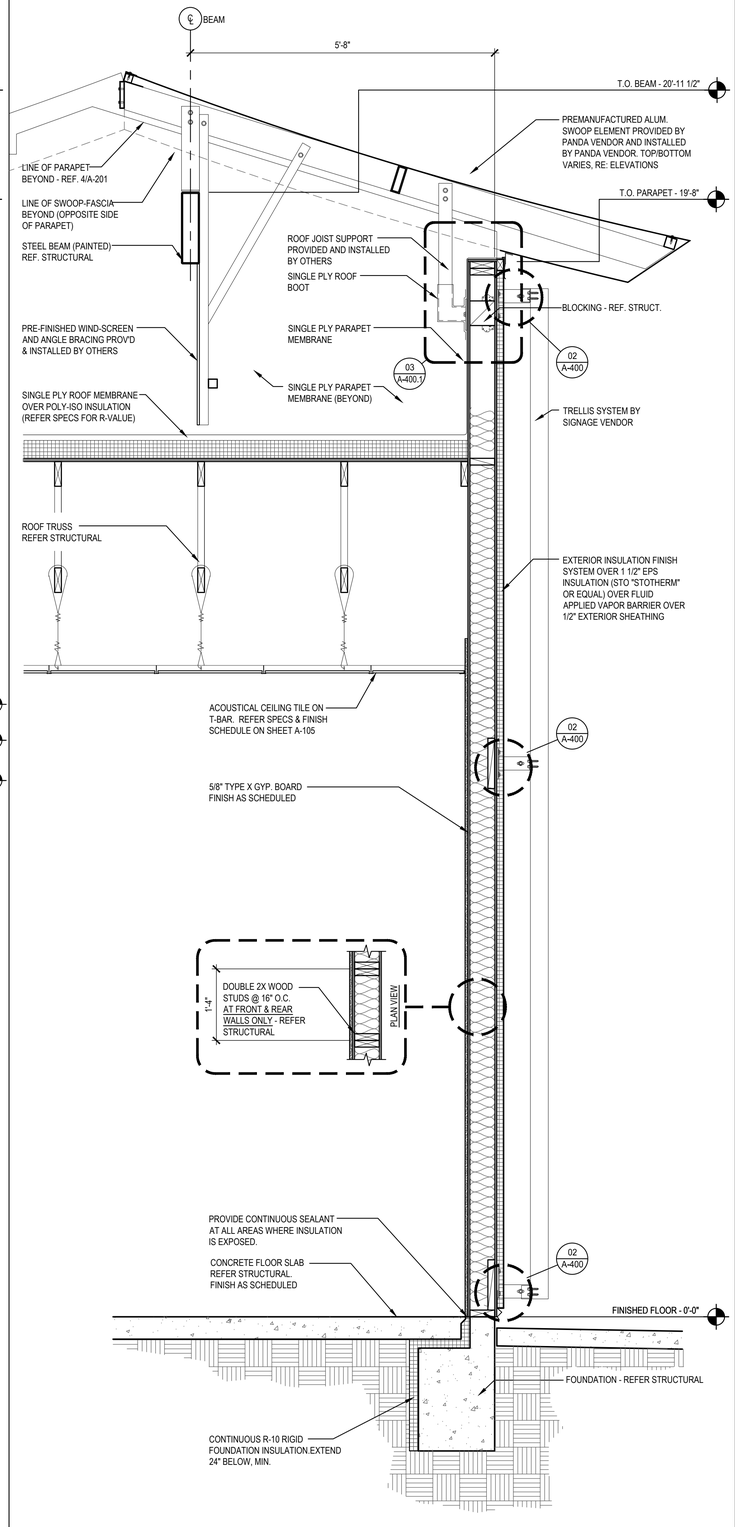
ISSUE FOR BID 01-30-2023



WALL SECTION 3
Scale= 3/4" = 1'-0" A-302



WALL SECTION 2
Scale= 3/4" = 1'-0" A-302



WALL SECTION 1
Scale= 3/4" = 1'-0" A-302

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AGRICULTURE
NO. 106109
STATE OF TENNESSEE
10-20-22

PANDA EXPRESS

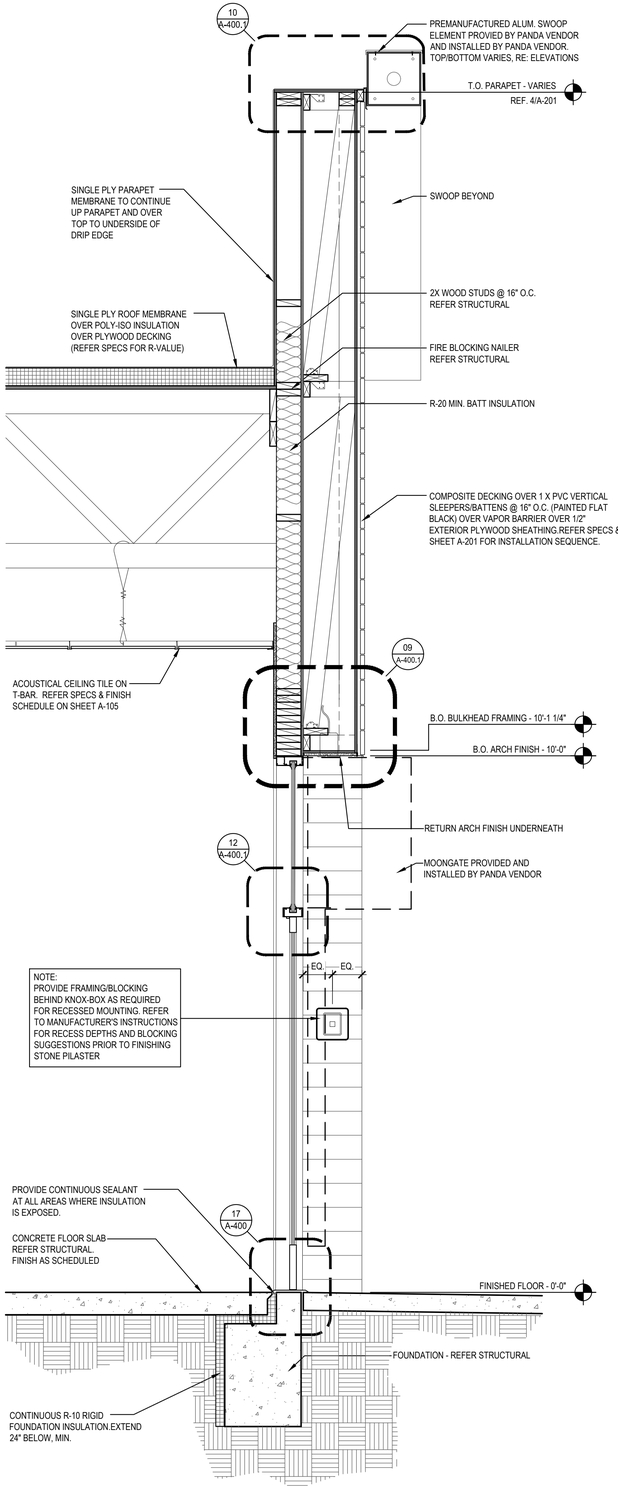
PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

A-302

WALL SECTIONS

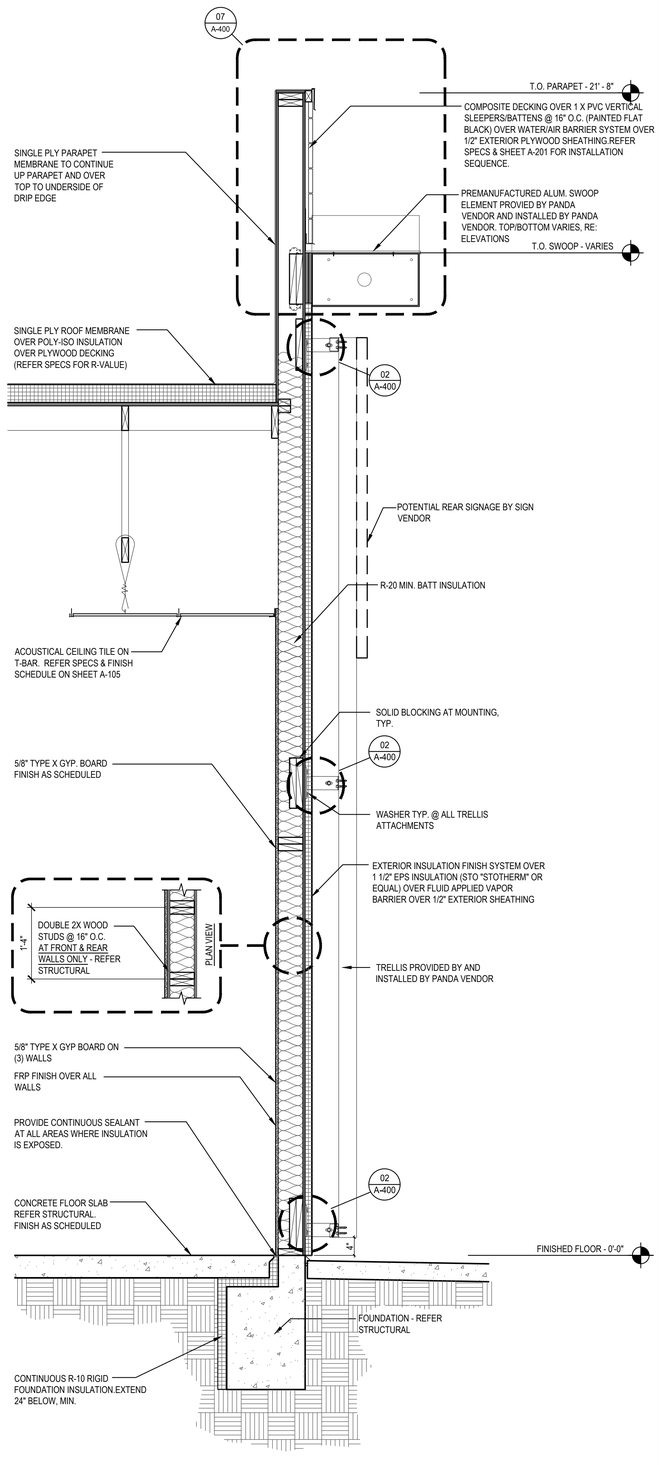
ISSUE FOR BID 01-30-2023

PANDA HOME 2600 R4



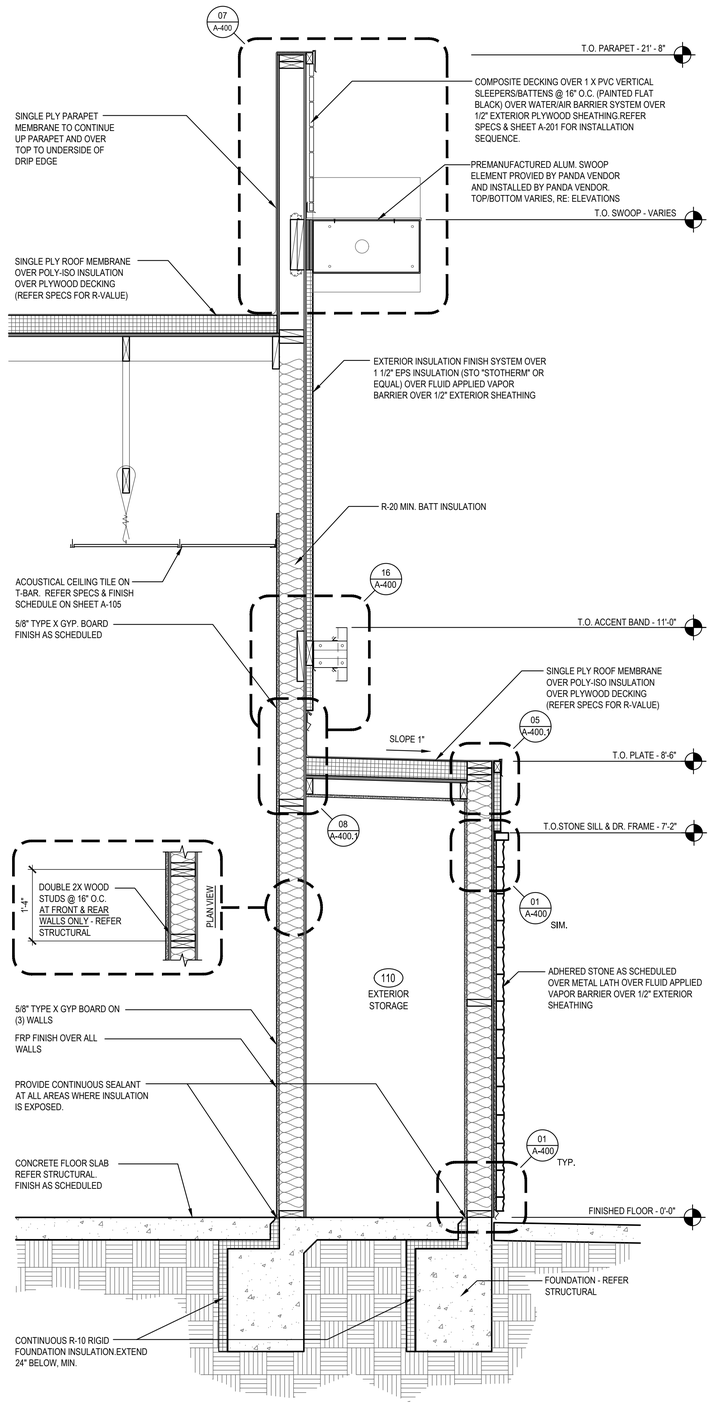
WALL SECTION 3

Scale= 3/4" = 1'-0" A-303



WALL SECTION 2

Scale= 3/4" = 1'-0" A-303



WALL SECTION 1

Scale= 3/4" = 1'-0" A-303

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WALL SECTIONS

PANDA HOME 2600 R4

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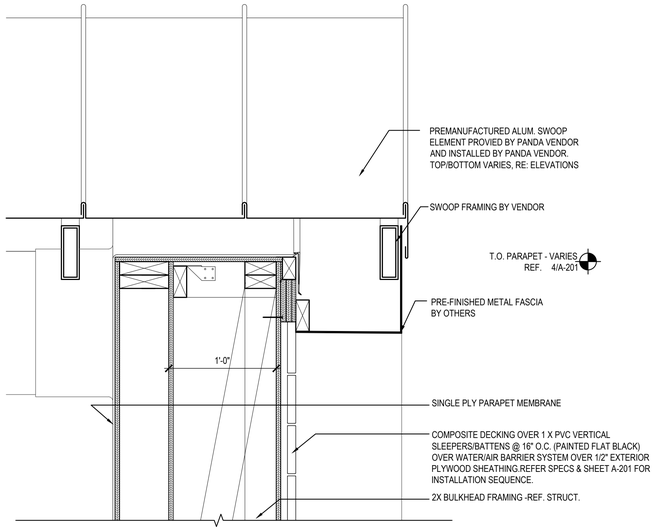
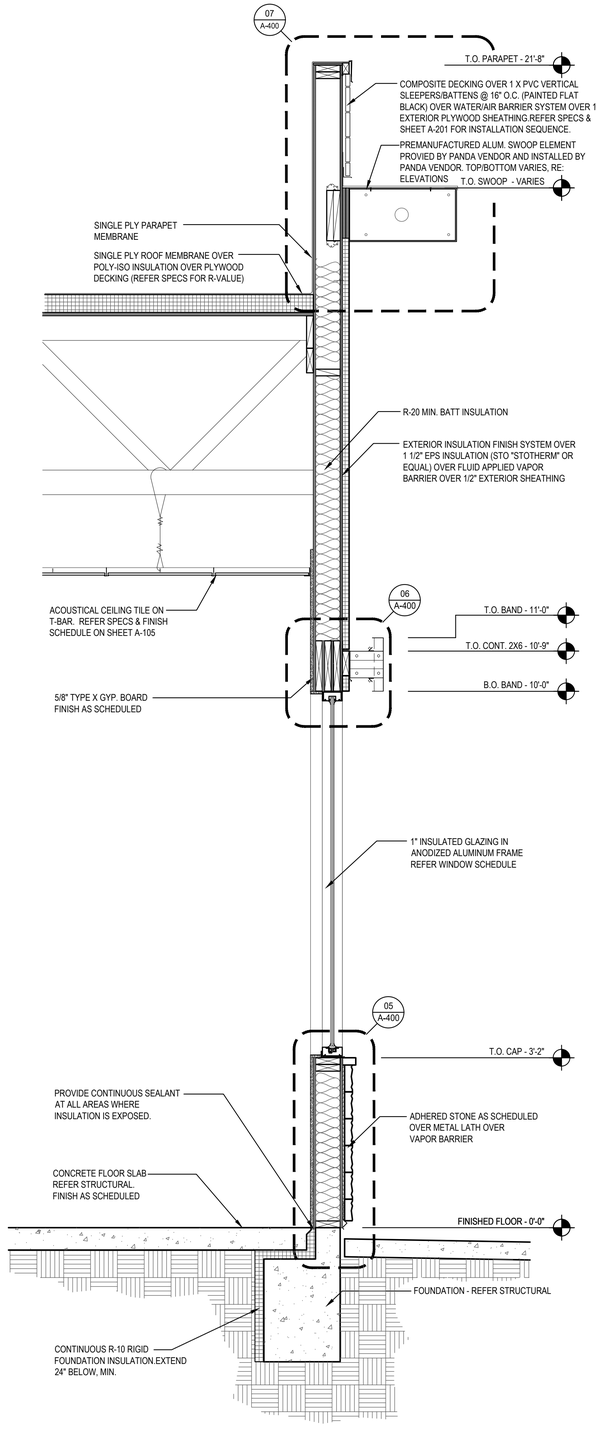
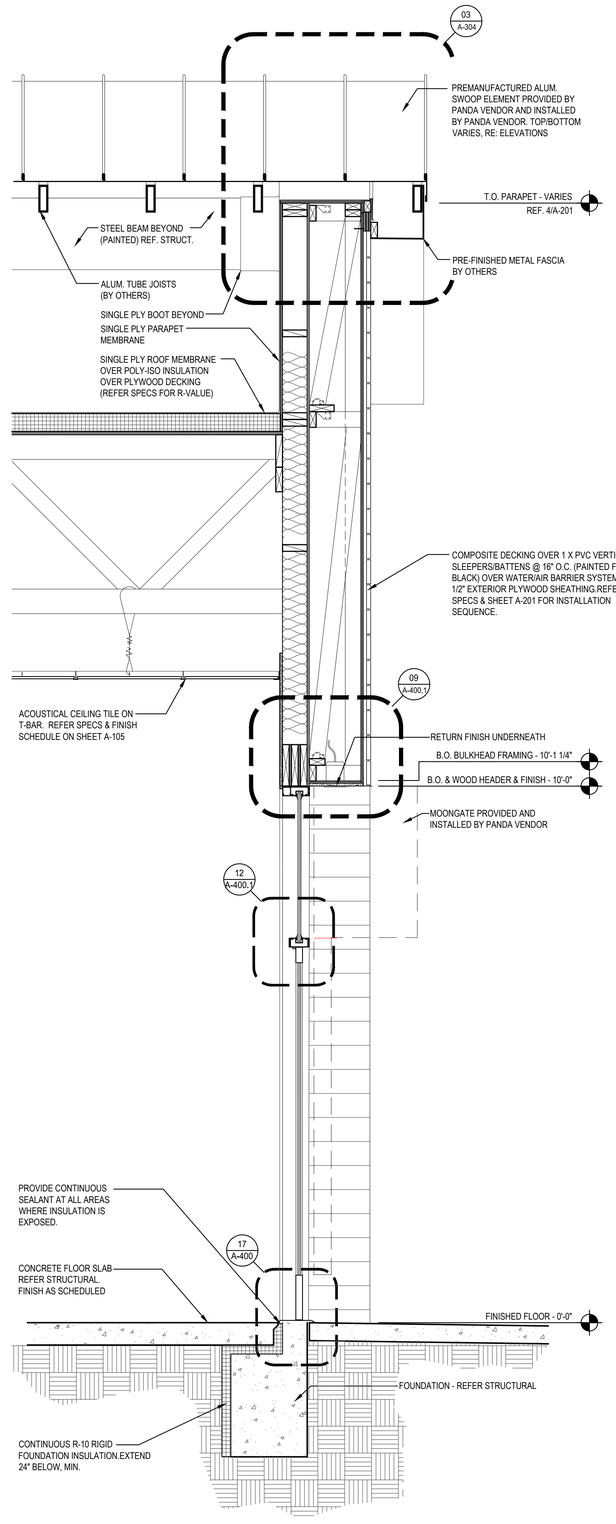


ROOF EDGE DETAIL | 3
Scale= 3/4" = 1'-0" | A-304



WALL SECTION | 2
Scale= 3/4" = 1'-0" | A-304



WALL SECTION | 1
Scale= 3/4" = 1'-0" | A-304

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NUMBER NO. 106109
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CLARKSVILLE, TN 37040

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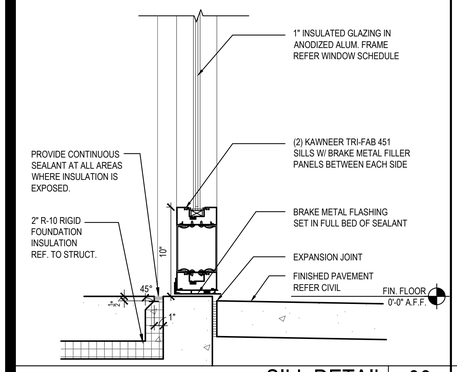
WALL SECTIONS

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-2023



SILL DETAIL 06

Scale= 1 1/2" = 1'-0" A-400.1

45 YEARS PC PLASTIC COMPONENTS

Exterior Insulated Finishes

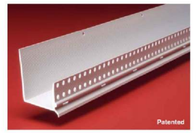
Section: 07240

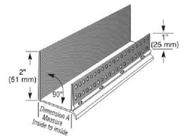
i DRIP TRAC®

Product Number	*Dimension A	Pieces Per Box
iDT-50	1/2" (13 mm)	35
iDT-58	5/8" (16 mm)	35
iDT-75	3/4" (19 mm)	30
iDT-1	1" (25 mm)	25
iDT-125	1-1/4" (31 mm)	20
iDT-15	1-1/2" (34 mm)	20
iDT-175	1-3/4" (38 mm)	15
iDT-2	2" (51 mm)	15
iDT-225	2-1/4" (57 mm)	15
iDT-25	2-1/2" (64 mm)	15
iDT-275	2-3/4" (70 mm)	10
iDT-3	3" (76 mm)	10
iDT-35	3-1/2" (89 mm)	10
iDT-4	4" (102 mm)	10

10' (3 m) Lengths

*Dimension "A" - measure inside to inside





The base coat mesh should be lapped over the top of the perforated flanges and across all butt joints.

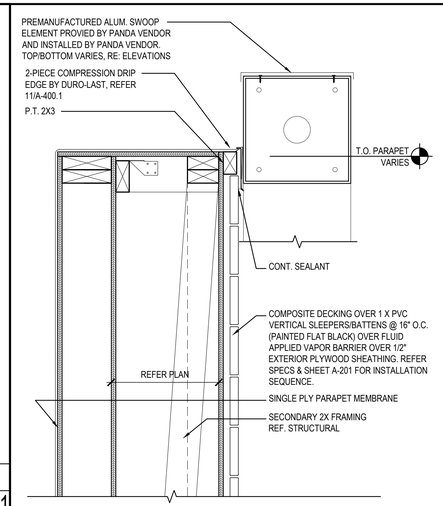
Warnock Hersey

PLASTIC PC COMPONENTS Inc. D-6

800.327.7077 • Fax 305.887.2452
www.plasticomponents.com

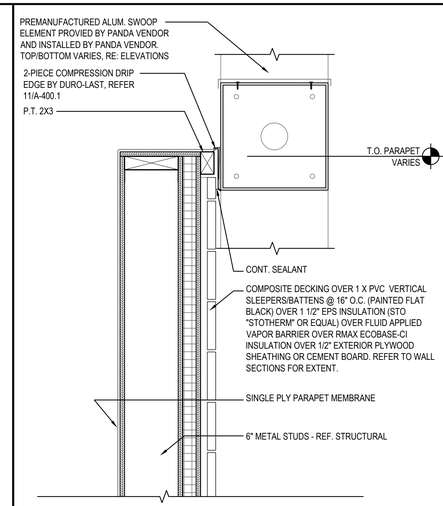
EIFS WEEP SCREEN SPEC/DETAIL 13

Scale= 1 1/2" = 1'-0" A-400.1



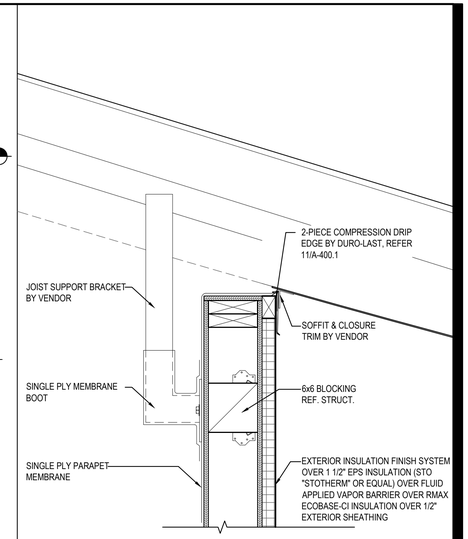
PARAPET AT ENTRY TOWER 10

Scale= 1 1/2" = 1'-0" A-400.1



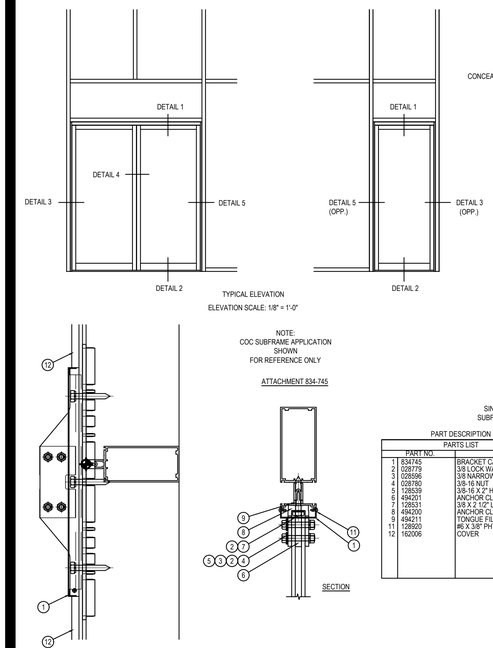
PARAPET AT D.T. TOWER 07

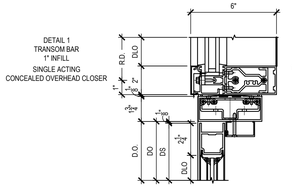
Scale= 1 1/2" = 1'-0" A-400.1

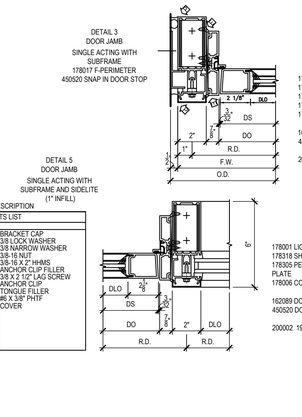


PARAPET/BRACKET DETAIL 03

Scale= 1 1/2" = 1'-0" A-400.1







NOTE:
COC SUBFRAME APPLICATION SHOWN
FOR REFERENCE ONLY

ATTACHMENT 834-745

SECTION

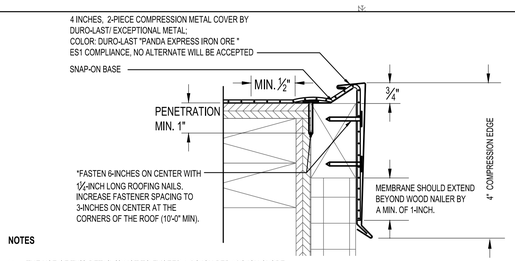
PART DESCRIPTION
PARTS LIST

PART NO.		
1	834745	BRACKET CAP
2	028779	3/8 LOCK WASHER
3	028596	3/8 NARROW WASHER
4	028780	3/8-16 NUT
5	128539	3/8-16 X 2" HHMS
6	494201	ANCHOR CLIP FILLER
7	128531	3/8 X 2 1/2" LAG SCREW
8	494200	ANCHOR CLIP
9	494211	TONGUE FILLER
11	128503	#6 X 3/8" PHTF
12	162006	COVER

DETAIL 5
DOOR JAMB
SINGLE ACTING WITH SUBFRAME AND SIDELITE (1" INFILL)

MOON GATE W/ KAWNEER 1620 SYSTEM 12

Scale= N.T.S A-400.1

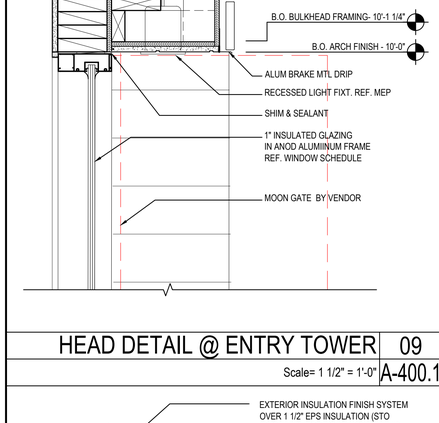


NOTES

1: THE USE OF THIS DETAIL IS NOT TO EXCEED A 2-INCH PER 12-INCH SLOPE.
2: A WOOD NAILER IS REQUIRED IF ONE OR MORE INCHES OF INSULATION IS USED. TOP OF WOOD NAILER IS TO BE FLUSH WITH TOP OF INSULATION. BE SURE THAT THE WOOD NAILER EXTENDS AT LEAST ½-INCH BEYOND THE HORIZONTAL EDGE OF THE SNAP-ON BASE.
3: THE FASTENERS USED TO ATTACH THE BASE TO WOOD NAILERS, AND THE MEMBRANE TO THE FACE OF THE NAILERS, MUST BE SPACED NO GREATER THAN 6-INCHES ON-CENTER. THE FASTENER SPACING MUST BE INCREASED TO 3-INCHES ON-CENTER WHEN ATTACHING THE BASE WITHIN 10-FEET (MIN.) OF THE OUTSIDE CORNERS OF THE BUILDING.
4: ALLOW FOR ¾-INCH EXPANSION GAP BETWEEN 10-FOOT LENGTHS OF SNAP-ON BASE. OVERLAP THE SNAP-ON COVERS BY 2-INCHES BETWEEN 10-FOOT LENGTHS.

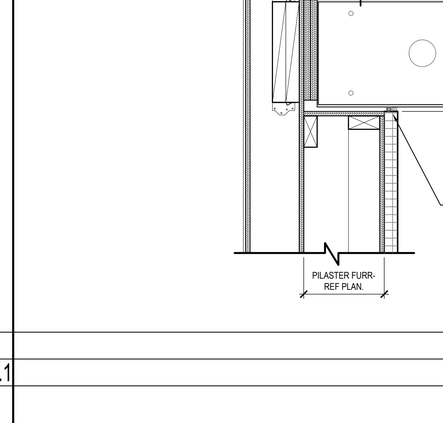
4-INCH HIGH, 2-PIECE COMPRESSION EDGE 11

NTS A-400.1



HEAD DETAIL @ ENTRY TOWER 09

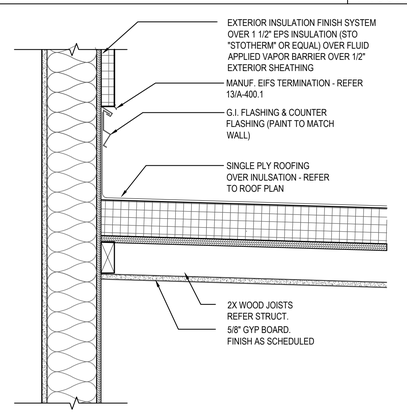
Scale= 1 1/2" = 1'-0" A-400.1



1

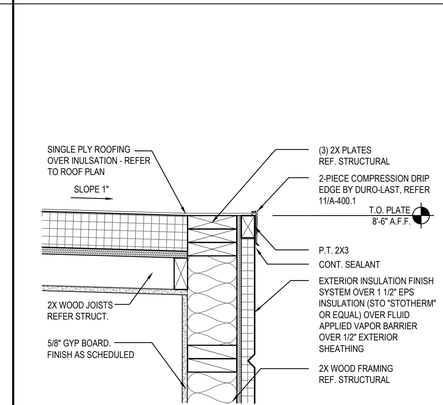
PILASTER/SWOOP DETAIL 02

Scale= 1 1/2" = 1'-0" A-400.1



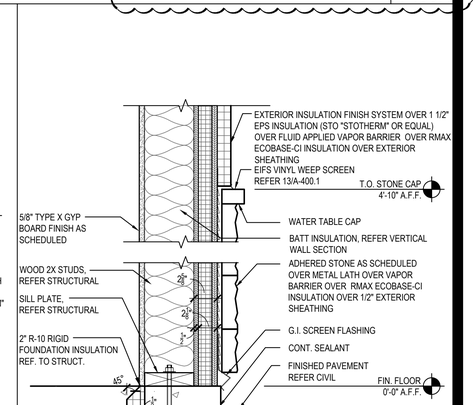
ROOFING DETAIL 08

Scale= 1 1/2" = 1'-0" A-400.1



ROOFING EDGE DETAIL 05

Scale= 1 1/2" = 1'-0" A-400.1



SILL DETAIL 01

Scale= 1 1/2" = 1'-0" A-400.1

ISSUE FOR BID 01-30-2023

PANDA EXPRESS CHINESE KITCHEN

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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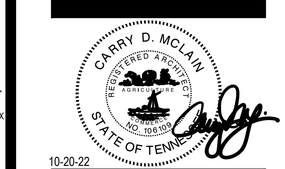
PANDA STORE #: -
ARCH PROJECT #: 261-443

idGROUP



10-20-22

PANDA EXPRESS

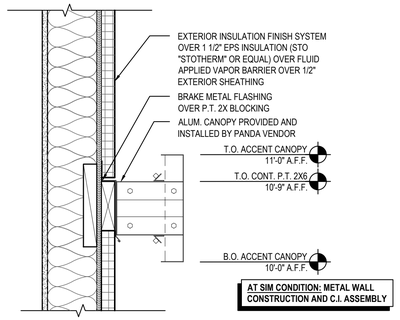
PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

A-400.1

ARCHITECTURAL DETAILS

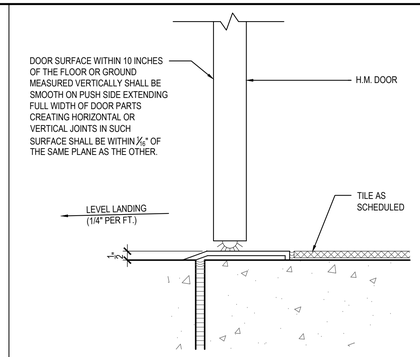
ISSUE FOR BID 01-30-2023

PANDA HOME 2600 R4



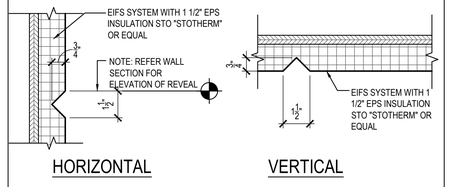
LIGHT ACCENT BAND DETAIL 16

Scale= 1 1/2" = 1'-0" A-400



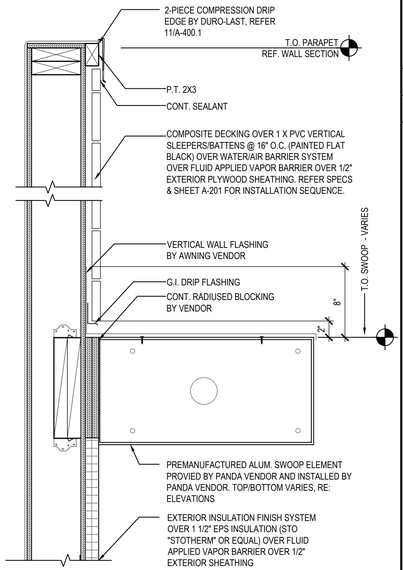
DOOR SILL DETAIL 17

Scale= 3" = 1'-0" A-400



EIFS AESTHETIC REVEAL JOINT 10

Scale= 3" = 1'-0" A-400



PARAPET/SWOOP DETAIL 07

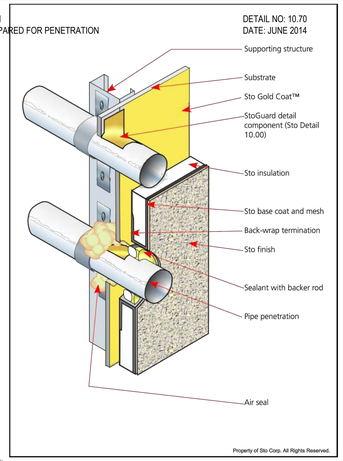
Scale= 1 1/2" = 1'-0" A-400

NOT USED 04

Scale= 1 1/2" = 1'-0" A-400

STOTHERM CI SYSTEM PREPARED FOR PENETRATION

DETAIL NO: 10.70
DATE: JUNE 2014



NOTES:

1.) DETAIL ASSUMES PIPE IS INSTALLED PRIOR TO THE EIFS OR THAT ITS LOCATION HAS BEEN IDENTIFIED.

2.) PREPARE AN OPENING IN THE EIFS WITH A JOINT OF 1/2" (13 MM) AROUND THE PENETRATION AND PROVIDE SEALANT WITH A CLOSED CELL BACKER ROD. PROVIDE AIR SEAL AROUND THE INTERIOR SIDE OF THE PENETRATION TO REDUCE THE PRESSURE DIFFERENCE ACROSS THE OUTSIDE SEALANT.

3.) PROVIDE STOGUARD TRANSITION MEMBRANE IN LIEU OF ST GOLD FILL AT PENETRATION WHERE JOINT BETWEEN SHEATHING AND PENETRATING ELEMENT EXCEEDS 1/8" (3MM). SEE STO DETAIL 20.52 FOR DETAILS OF STOGUARD TRANSITION MEMBRANE AT PIPE PENETRATION.

IMPORTANT:

COMPONENTS NOT IDENTIFIED AS STO ARE FURNISHED BY OTHER MANUFACTURERS AND ARE NOT NECESSARILY INSTALLED BY TRADES WHO INSTALL THE STO PRODUCTS. REFER TO PROJECT SPECIFIC CONTRACT DOCUMENTS

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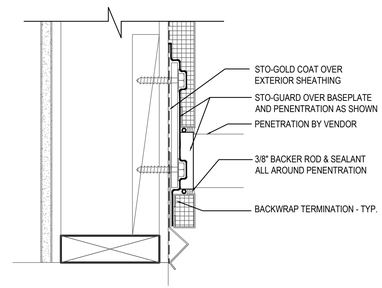
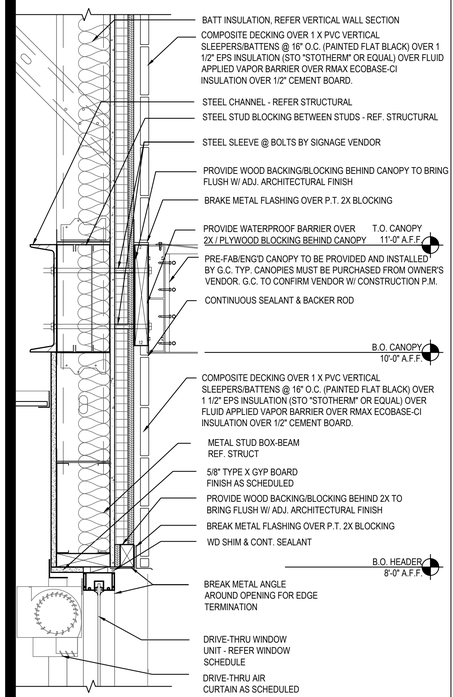


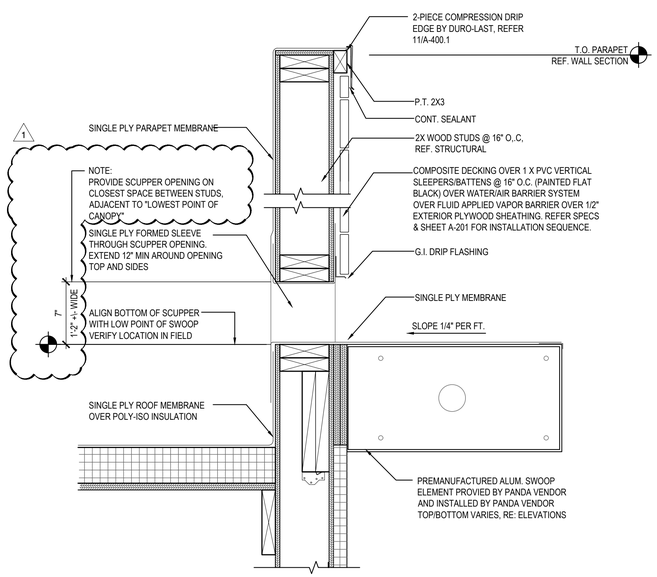
PENETRATION DETAIL 02

Scale= 3" = 1'-0" A-400



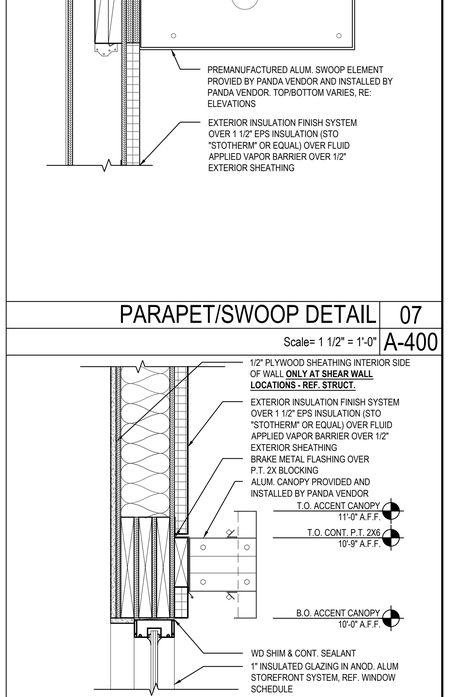
DRIVE-THRU HEAD DETAIL 15

Scale= 1 1/2" = 1'-0" A-400



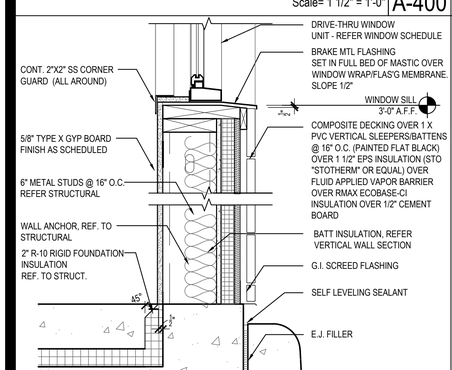
SCUPPER DETAIL 09

Scale= 1 1/2" = 1'-0" A-400



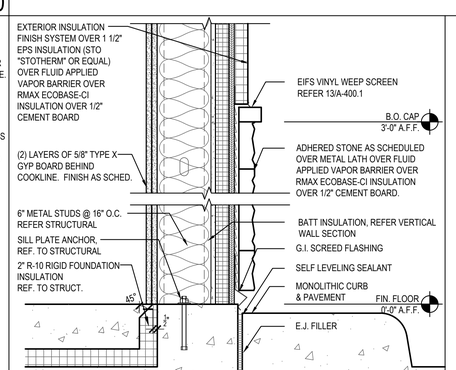
HEADER DETAIL 06

Scale= 1 1/2" = 1'-0" A-400



SILL DETAIL 14

Scale= 1 1/2" = 1'-0" A-400

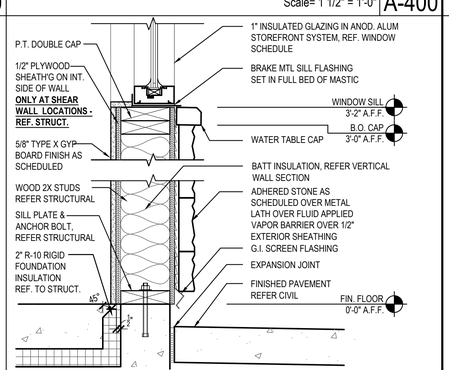


SILL DETAIL 11

Scale= 1 1/2" = 1'-0" A-400

NOT USED 08

Scale= 1 1/2" = 1'-0" A-400



WINDOW SILL DETAIL 05

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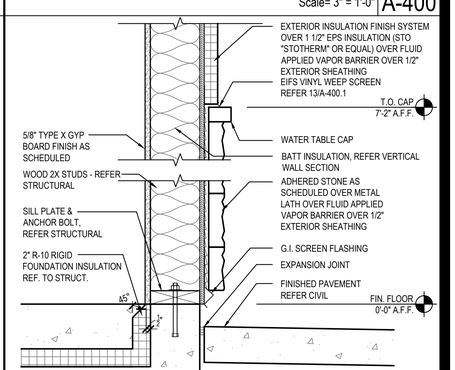

SILL DETAIL 01

Scale= 1 1/2" = 1'-0" A-400

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

1	OWNER REVISIONS	01-30-23

ISSUE DATE:

	ISSUE FOR PERMIT	10-20-22
	ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

idGROUP

CARRY D. MCLAIN
REGISTERED ARCHITECT
AGRICULTURE CT
NO. 106107
STATE OF TENNESSEE
10-20-22

PANDA EXPRESS

PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

A-400

ARCHITECTURAL DETAILS

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-2023

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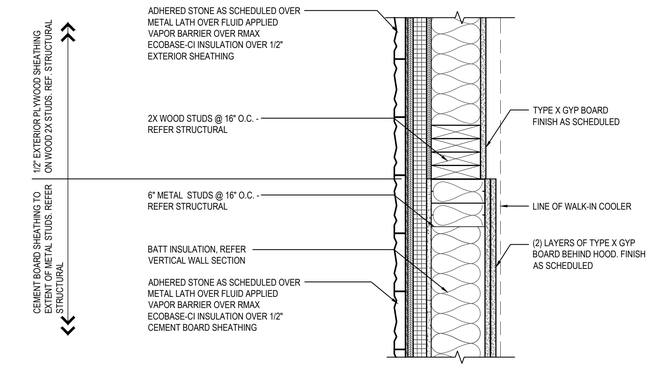
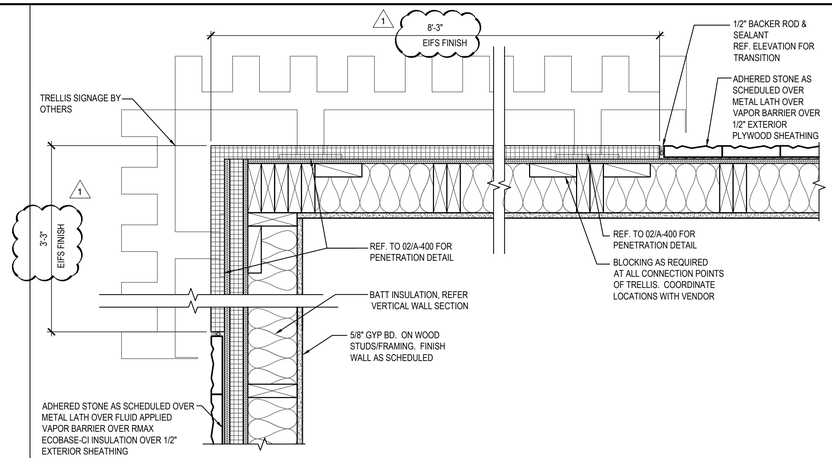


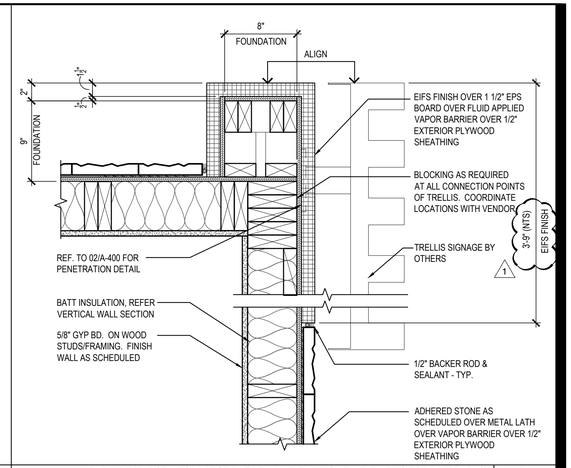
PLAN SECTION/DETAIL 09

Scale= 1 1/2" = 1'-0" A-401



PLAN SECTION/DETAIL (REAR D.T. CORNER) 05

Scale= 1 1/2" = 1'-0" A-401



PLAN SECTION/DETAIL (REAR CORNER) 03

Scale= 1 1/2" = 1'-0" A-401

PLAN SECTION/DETAIL 08

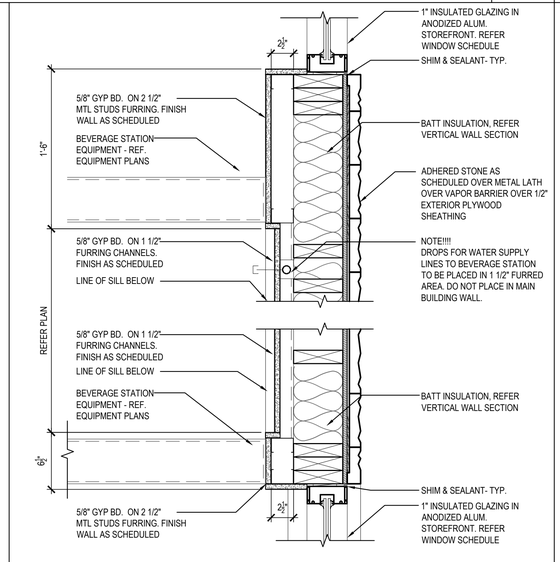
Scale= 1 1/2" = 1'-0" A-401

PLAN SECTION/DETAIL 07

Scale= 1 1/2" = 1'-0" A-401

PLAN SECTION/DETAIL 04

Scale= 1 1/2" = 1'-0" A-401

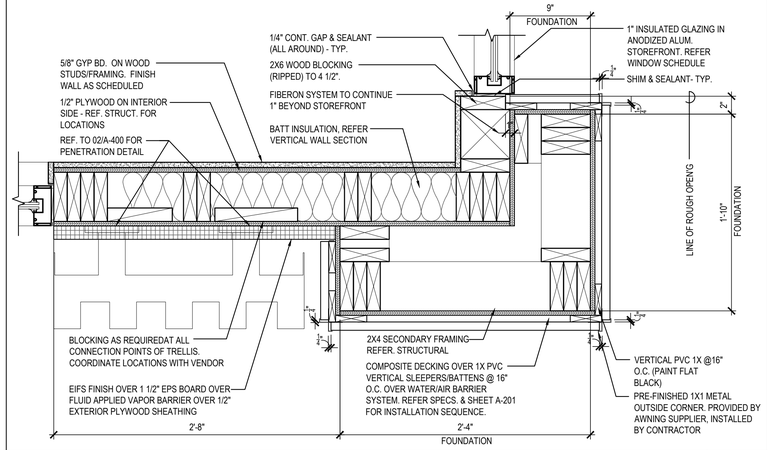


PLAN SECTION/DETAIL (@ BEV. STATION) 06

Scale= 1 1/2" = 1'-0" A-401

PLAN SECTION/DETAIL (ENTRY PILASTER) 02

Scale= 1 1/2" = 1'-0" A-401



PLAN SECTION/DETAIL (ENTRY CORNER) 01

Scale= 1 1/2" = 1'-0" A-401

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PANDA EXPRESS · CHINESE KITCHEN

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ARCH PROJECT #: 261-443

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PANDA EXPRESS

PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

A-401

ARCHITECTURAL DETAILS

PANDA HOME 2600 R4

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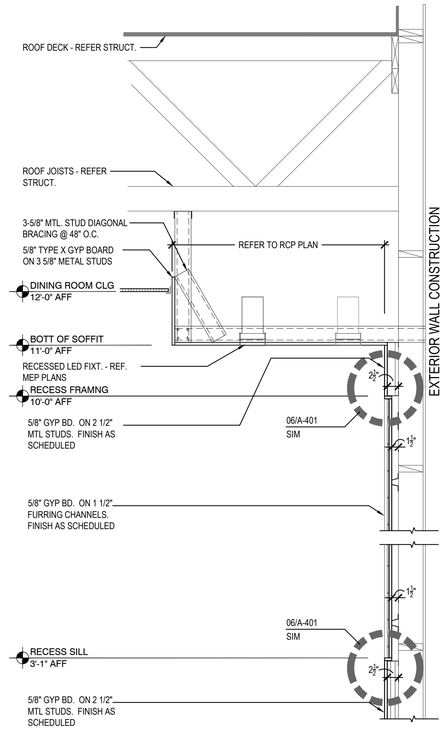
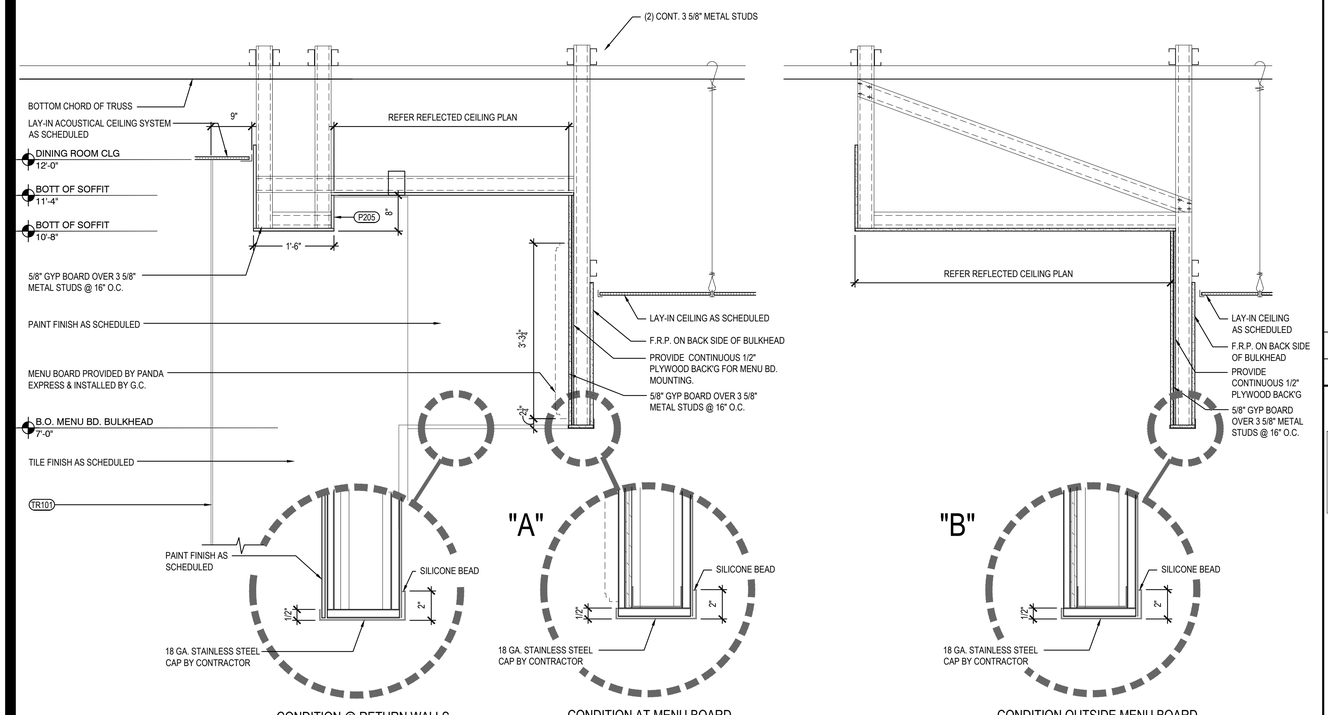
NOT USED 12
Scale= NTS A-402

NOT USED 11
Scale= NTS A-402



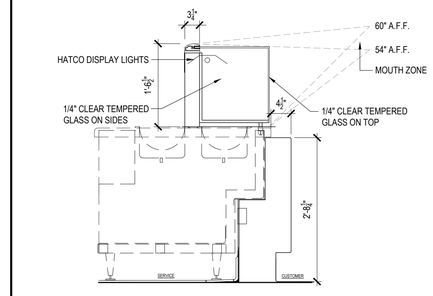
BEVERAGE STATION SOFFIT DETAILS 10
Scale= 3/4" = 1'-0" A-402

NOT USED 2
Scale= 3/4" = 1'-0" A-402

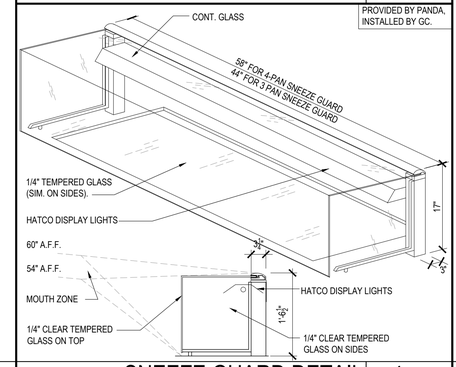


CONDITION @ RETURN WALLS
CONDITION AT MENU BOARD
CONDITION OUTSIDE MENU BOARD

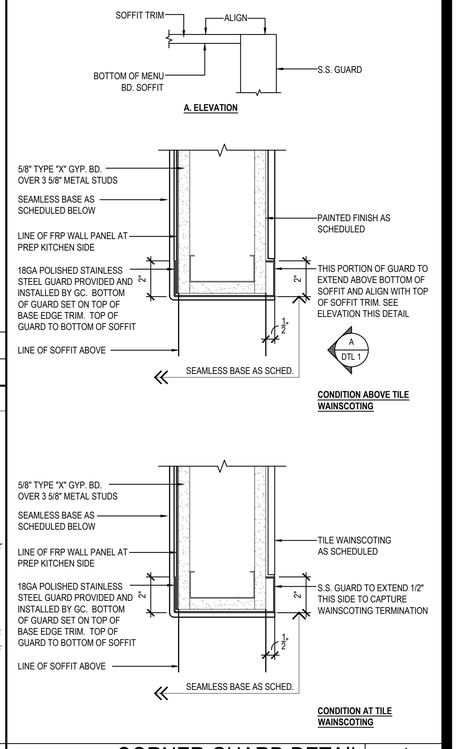
SERVICE COUNTER SOFFIT DETAILS 8
Scale= 3/4" = 1'-0" A-402



SNEEZE GUARD DETAIL 5
Scale= NTS A-402



SNEEZE GUARD DETAIL 4
Scale= NTS A-402



CORNER GUARD DETAIL 1
Scale= 3" = 1'-0" A-402

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idGROUP

CARRY D. MCLAIN
REGISTERED ARCHITECT
AGRICULTURE
NO. 106100
STATE OF TENNESSEE
10-20-22

PANDA EXPRESS

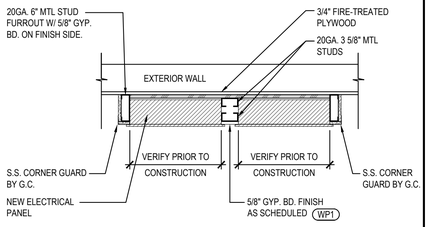
PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

A-402

ARCHITECTURAL DETAILS

ISSUE FOR BID 01-30-2023

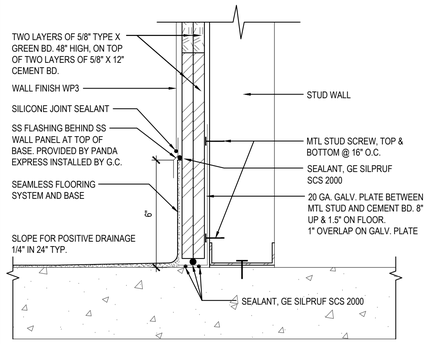
PANDA HOME 2600 R4



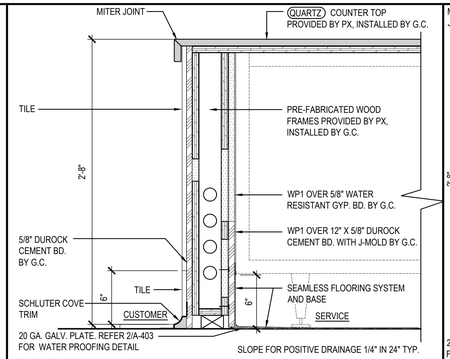
NOTE:
VERIFY ALL WALL PLACEMENT DIMENSIONS W/ ELECTRICAL PANEL SIZE, SPACING & MOUNTING HEIGHT REQUIREMENTS PRIOR TO CONSTRUCTION.

RATED WALLS:
G.C. TO PROVIDE 3M PRODUCT CS-195 COMPOSITE SHEETS AND INSTALL PER MANUFACTURERS RECOMMENDATIONS OR FIRE BLANKETS APPROVED BY LOCAL AUTHORITIES TO MAINTAIN INTEGRITY OF FIRE RATED WALL.

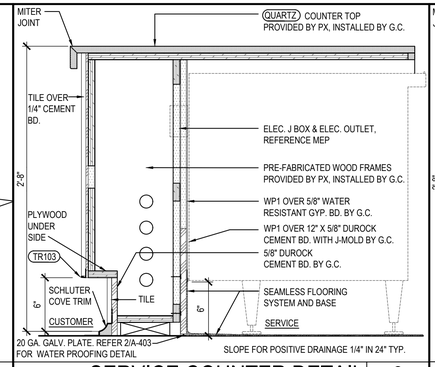
ELECTRIC PANELS DETAIL 20
Scale= 3/4" = 1'-0" A-403



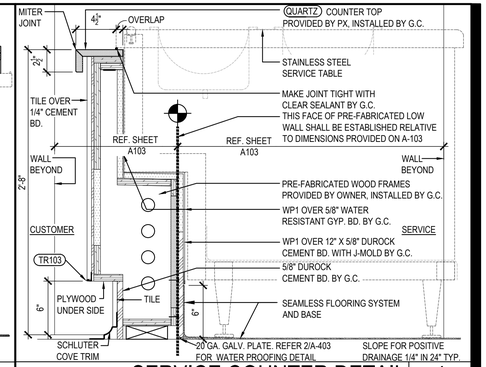
WALL BASE @ COOKLINE 16
Scale= NTS A-403



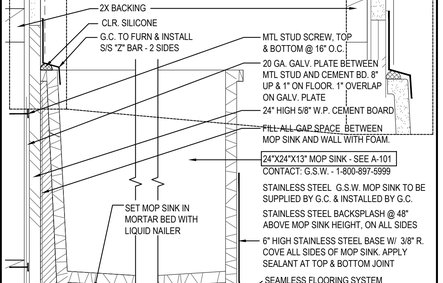
CASHIER COUNTER PLAN & DETAIL 12
Scale= 1 1/2" = 1'-0" A-403



SERVICE COUNTER DETAIL 8
Scale= 1 1/2" = 1'-0" A-403

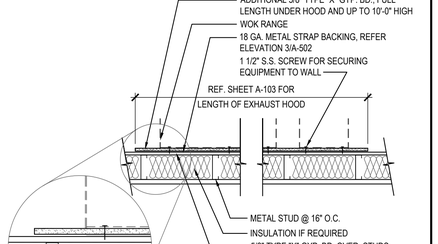


SERVICE COUNTER DETAIL 4
Scale= 1 1/2" = 1'-0" A-403



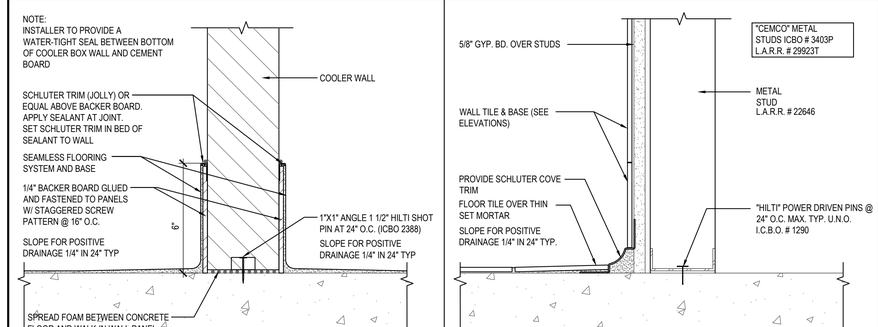
WALK-IN FREEZER GAP DETAIL 19
Scale= 3" = 1'-0" A-403

NOT USED 15
Scale= 1 1/2" = 1'-0" A-403

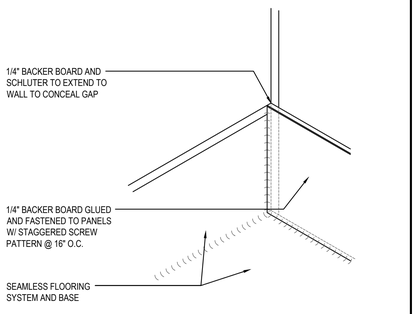


NOTE:
PROVIDE WALK-IN FREEZER MANUFACTURER FORM PLASTIC INSULATION COMPLIANCE LABEL PER SEC.2603 IBC

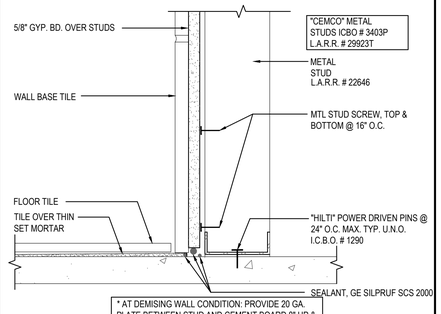
TYP. WALK-IN FREEZER SECTION 11
Scale= 1 1/2" = 1'-0" A-403



SERVICE COUNTER PLAN AND ELEVATION 3
Scale= 3/4" = 1'-0" A-403

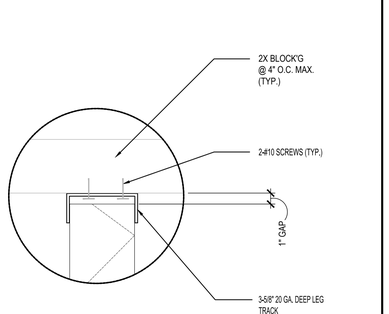


WALK-IN COOLER GAP DETAIL 18
Scale= 3" = 1'-0" A-403

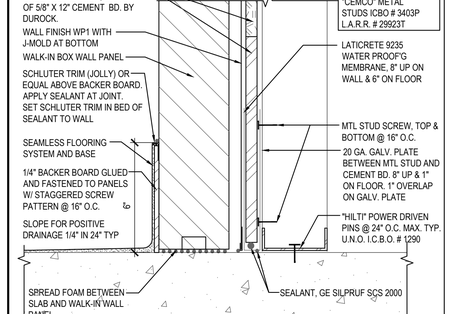


* AT DEMISING WALL CONDITION: PROVIDE 20 GA. PLATE BETWEEN STUD AND CEMENT BOARD 8" UP & 1" ON FLOOR. 1" OVERLAP ON GALV. PLATE

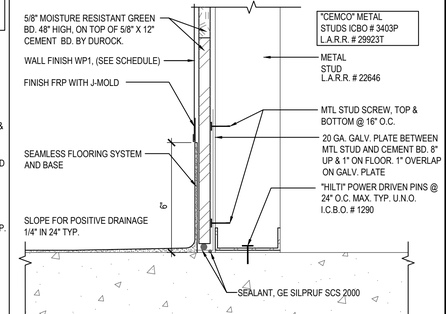
WALL BASE @ DINING ROOM 14
Scale= 3" = 1'-0" A-403



METAL STUD CONNECTION 10
Scale= 1 1/2" = 1'-0" A-403



WALL BASE@WALK-IN & STUD WALL 6
Scale= 3" = 1'-0" A-403



WALL BASE @ KITCHEN 2
Scale= 3" = 1'-0" A-403

MOP SINK 17
Scale= 3" = 1'-0" A-403

NOT USED 13
Scale= 3/4" = 1'-0" A-403

GYP. BOARD BEHIND COOKLINE 9
Scale= NTS A-403

WALK-IN COOLER BASE 5
Scale= 3" = 1'-0" A-403

WALL BASE @ RESTROOM 1
Scale= 3" = 1'-0" A-403

ISSUE FOR BID 01-30-2023

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idGROUP

CARRY D. MCLAIN
REGISTERED ARCHITECT
AGRICULTURE
NO. 106100
STATE OF TENNESSEE
10-20-22

PANDA EXPRESS

PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

A-403

ARCHITECTURAL
DETAILS

ISSUE FOR BID 01-30-2023

PANDA HOME 2600 R4

NOT USED 21

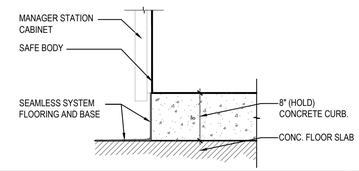
Scale= NTS A-404

MANAGER CABINET STATION CURB SIZES REFER FLR. PLAN FOR LOCATION

1) IF CABINET IS ENCLOSED BY 3 SIDE OF WALLS:
8" H X 24" W X 48-1/2" L (CONCRETE CURB ONLY, NOT INCLUDE SEAMLESS BASE)
SEAMLESS SYSTEM ON FRONT FACE (EXPOSED CURB). THIS APPLY TO PROTOTYPE BUILDING LAYOUTS.

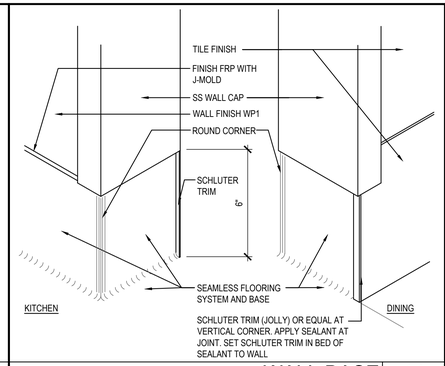
2) IF CABINET ENCLOSED BY ONLY (1) ONE WALL:
8" H X 24" W X 46" L (CONCRETE CURB ONLY, NOT INCLUDE SEAMLESS BASE)
SEAMLESS SYSTEM ON FRONT AND (1) SIDE FACE (EXPOSED CURB)

3) IF CABINET OPEN WITH NO WALLS:
8" H X 24" W X 46" L (CONCRETE CURB ONLY, NOT INCLUDE SEAMLESS BASE)
SEAMLESS SYSTEM ON ALL 3 SIDES OF THE CURB



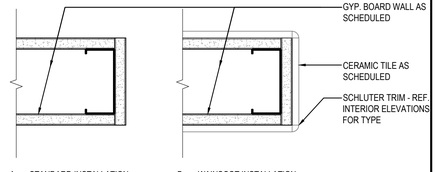
MGR. STATION & SAFE CURB 20

Scale= 1" = 1'-0" A-404



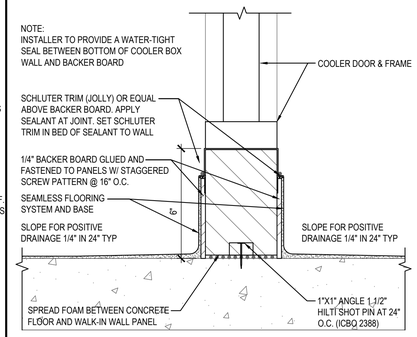
WALL BASE 14

Scale= 3" = 1'-0" A-404



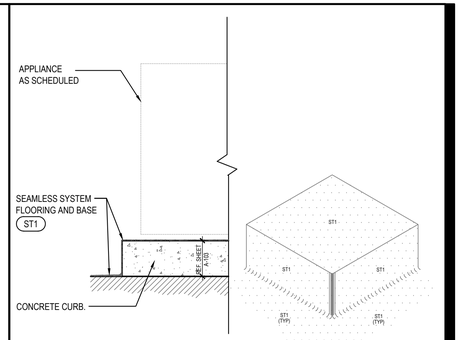
PLAN SECTION WALL DETAIL 11

Scale= 3" = 1'-0" A-404



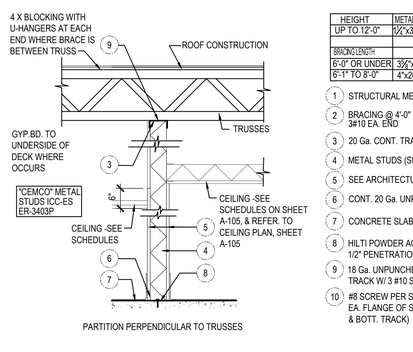
WALL BASE @ COOLER 7

Scale= 3" = 1'-0" A-404



CURB DETAIL 4

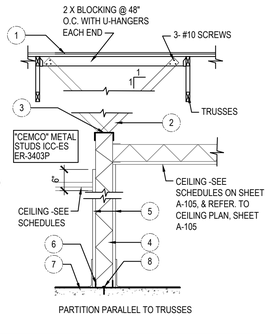
Scale= 1" = 1'-0" A-404



PARTITION PERPENDICULAR TO TRUSSES

HEIGHT	METAL STUD SIZE & SPACING
UP TO 12'-0"	1½"x3½"x20Ga @ 16" O.C.
BRACING LENGTH	SEE
6'-0" OR UNDER	3½"x20Ga
6'-1" TO 8'-0"	4"x20Ga

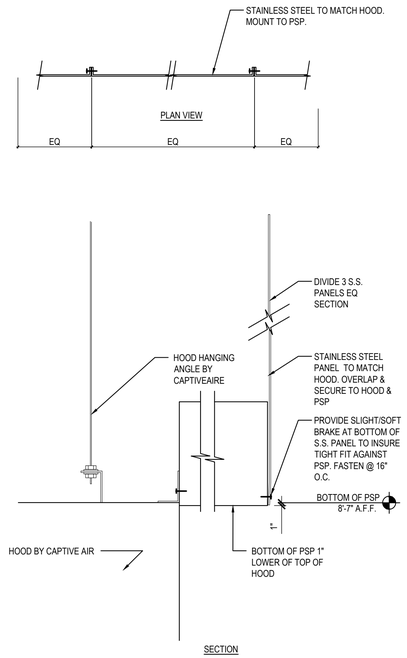
1. STRUCTURAL MEMBER ABOVE
2. BRACING @ 4'-0" O.C. STAGGERED W/ 3#10 EA. END
3. 20 Ga. CONT. TRACK W/ 8# SCREW/STUD
4. METAL STUDS (SEE SCHEDULE)
5. SEE ARCHITECTURAL FOR FINISH
6. CONT. 20 Ga. UNPUNCHED TRACK (1 1/16" FLANGE)
7. CONCRETE SLAB
8. HILTI POWDER ACTUATED FASTENER .145 Ø x 1 1/2" PENETRATION @ 32" O.C. OR EQUAL
9. 18 Ga. UNPUNCHED 3" DEEP LEG TRACK W/ 3 #10 SCREWS
10. #8 SCREW PER STUD TYPICAL CONNECTION EA. FLANGE OF STUD TO STEEL TRACK (TOP & BOTT. TRACK)



PARTITION PARALLEL TO TRUSSES

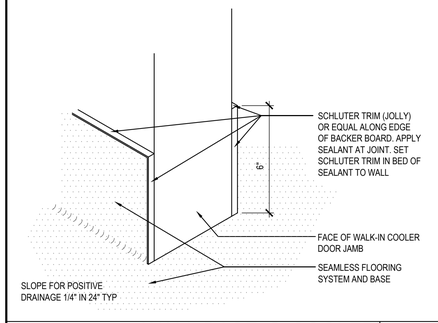
PARTITION DETAILS 10

Scale= 3/4" = 1'-0" A-404



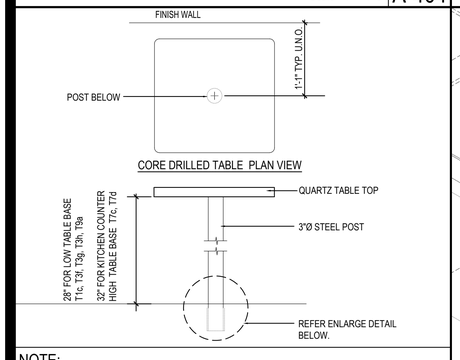
S.S. DETAIL @ EXHAUST HOOD 6

Scale= 1/2" = 1'-0" A-404

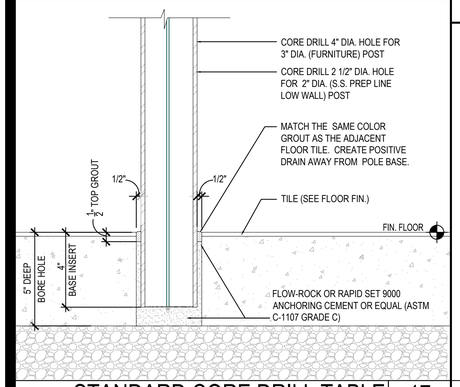


WALL BASE @ COOLER 3

Scale= 3" = 1'-0" A-404

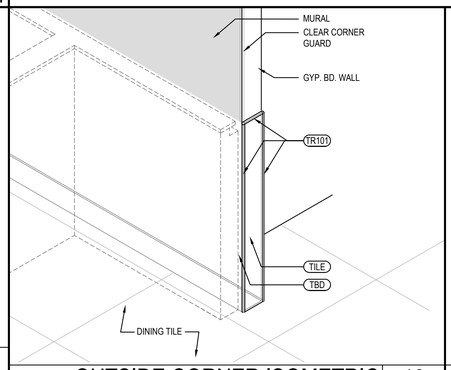


NOTE:
G.C. TO REFER CORE DRILL LOCATION ON SHEET A-109



STANDARD CORE DRILL TABLE 17

NTS A-404

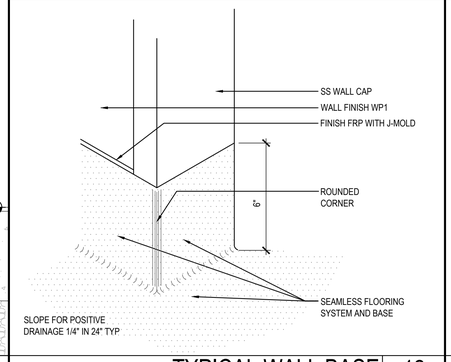


OUTSIDE CORNER ISOMETRIC 13

Scale= 3/4" = 1'-0" A-404

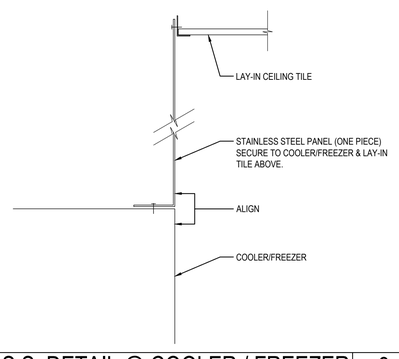
NOT USED 9

Scale= 3/4" = 1'-0" A-404



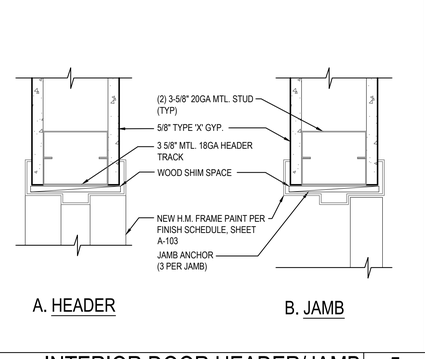
TYPICAL WALL BASE 12

Scale= 3" = 1'-0" A-404



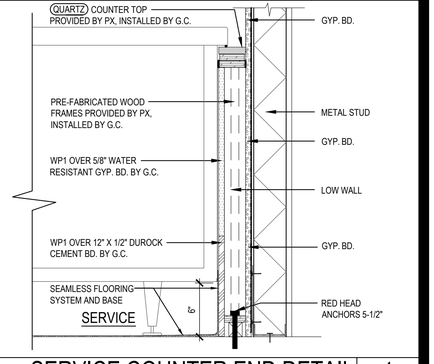
S.S. DETAIL @ COOLER / FREEZER 8

Scale= 1/2" = 1'-0" A-404



INTERIOR DOOR HEADER/JAMB 5

Scale= 3" = 1'-0" A-404



SERVICE COUNTER END DETAIL 1

Scale= 1 1/2" = 1'-0" A-404

ISSUE FOR BID 01-30-2023

PANDA EXPRESS CHINESE KITCHEN

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

ISSUE DATE:

ISSUE FOR PERMIT	10-20-22
ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

idGROUP

CARRY D. MCLAIN
REGISTERED ARCHITECT
AGRICULTURE
NO. 106109
STATE OF TENNESSEE
10-20-22

PANDA EXPRESS

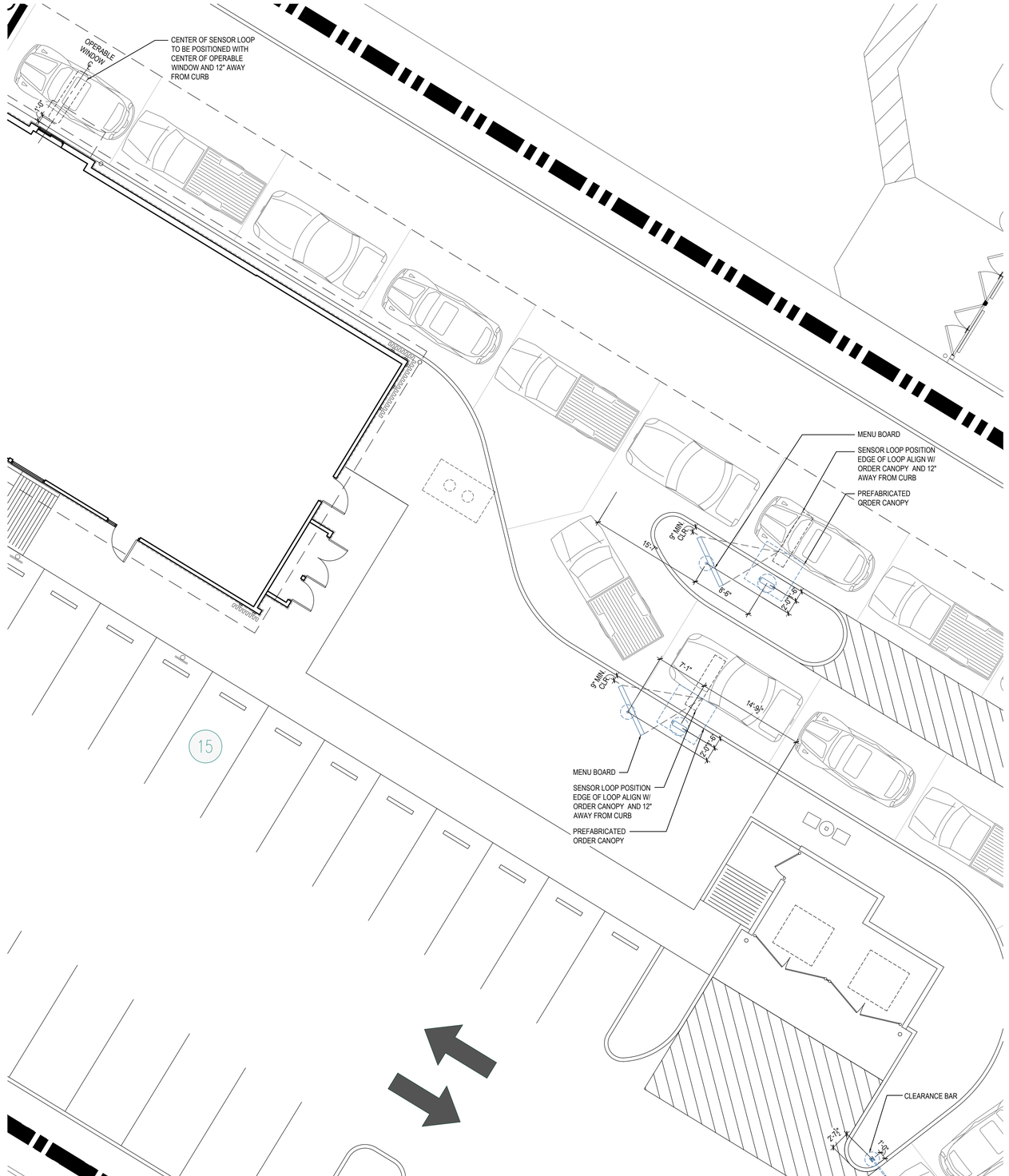
PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

A-404

ARCHITECTURAL DETAILS

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-2023



DRIVE - THRU MENU BOARD LOCATION

1

Scale= 1/8" = 1'-0"

A-405

ISSUE FOR BID 01-30-2023

PANDA EXPRESS, INC.
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STATE OF TENNESSEE

10-20-22

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NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

A-405

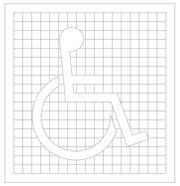
ARCHITECTURAL DETAILS
DRIVE THRU

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-2023

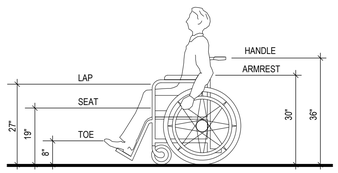
SITE DEVELOPMENT:

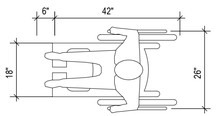
1. SURFACE SLOPES OF PARKING SPACES FOR THE PHYSICALLY DISABLED SHALL NOT EXCEED 1/4-INCH PER FOOT IN ANY DIRECTION.
2. PEDESTRIAN WAYS THAT ARE ACCESSIBLE TO THE PHYSICALLY DISABLED SHALL BE PROVIDED FROM EACH DISABLED PARKING SPACE TO RELATED FACILITIES, INCLUDING CURBS CUTS OR RAMPS AS REQUIRED.
3. THE SURFACE OF EACH PARKING SPACE SHALL HAVE A SURFACE IDENTIFICATION DUPLICATING THE SYMBOL OF ACCESSIBILITY CONSISTING OF A WHITE FIGURE ON A BLUE BACKGROUND, AT LEAST 3' FEET SQUARE



PROPORTIONS
INTERNATIONAL SYMBOL OF ACCESSIBILITY

DISPLAY CONDITIONS
INTERNATIONAL SYMBOL OF ACCESSIBILITY (1)

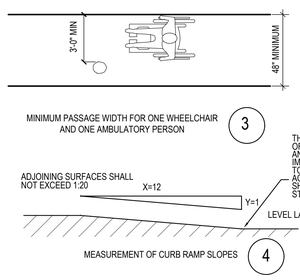


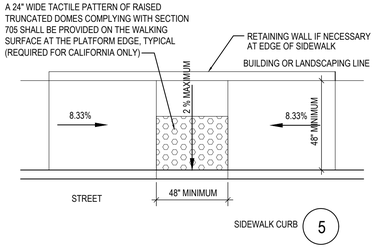


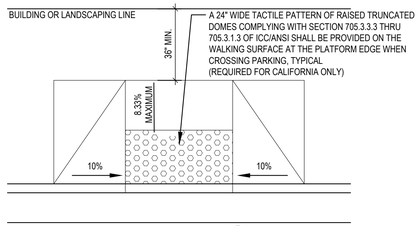
DIMENSIONS OF ADULT-SIZED WHEELCHAIRS (2)

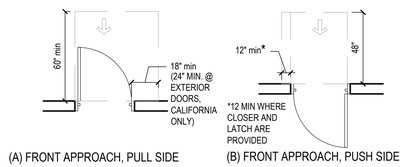
CURB RAMPS, WALKS AND SIDEWALKS:

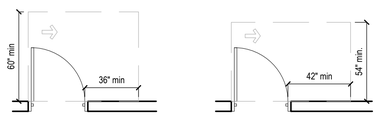
4. WALKS AND SIDEWALKS SHALL HAVE CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING ½" AND SHALL BE A MINIMUM OF 36" IN. WIDTH PER ADA. (48" MIN. IS RECOMMENDED, 48" MIN. IS REQUIRED FOR CALIFORNIA)
5. WHEN THE SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK EXCEEDS 1 VERTICAL TO 20 HORIZONTAL (5% GRADIENT) IT SHALL COMPLY WITH THE PROVISIONS FOR PEDESTRIAN RAMPS.
6. SURFACE CROSS SLOPES SHALL NOT EXCEED 1.5% PER FOOT.
7. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED ½", WHEN CHANGES IN LEVELS DO OCCUR, THEY SHALL NOT BE BEVELED WITH A SLOPE NOT GREATER THAN 1:2 EXCEPT THAT LEVEL CHANGES NOT EXCEEDING ¼" MAY BE VERTICAL
8. WHEN CHANGES IN LEVELS GREATER THAN ½" ARE NECESSARY, THEY SHALL COMPLY WITH THE REQUIREMENTS FOR CURB RAMPS & PEDESTRIAN RAMPS.
9. NOT USED
10. CURB RAMPS SHALL BE CONSTRUCTED AT EACH CORNER OF STREET INTERSECTIONS AND WHERE A PEDESTRIAN WAY CROSSES A CURB.
11. CURB RAMPS SHALL BE A MINIMUM OF 4 FEET IN WIDTH AND SHALL LIE GENERALLY, IN A SINGLE SLOPED PLANE, WITH A MINIMUM OF SURFACE WARPING AND CROSS SLOPE.
12. THE SLOPE OF CURB RAMPS SHALL NOT EXCEED 1 VERTICAL TO 7.5 HORIZONTAL. THE SLOPE OF THE FANNED OR FLARED SIDES OF CURB RAMPS SHALL NOT EXCEED 1 VERTICAL TO 7.5 HORIZONTAL.
13. A 1.5% MAXIMUM SLOPE LANDING 4 FEET DEEP SHALL BE PROVIDED AT THE UPPER END OF EACH CURB RAMP OVER ITS FULL WIDTH TO PERMIT SAFE EGRESS FROM THE RAMP SURFACE.
14. NOT USED
15. NOT USED
16. NOT USED

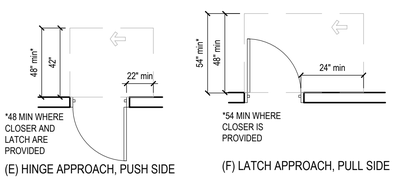


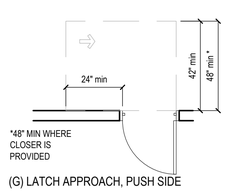












7

ENTRANCES:

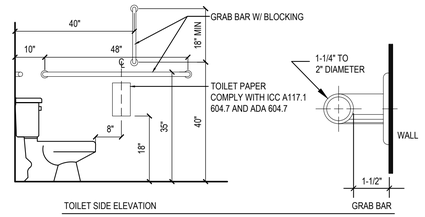
17. PROVIDE AT METALLIC SIGN OVER EACH STOREFRONT DOOR STATING: "THIS DOOR MUST REMAIN UNLOCKED DURING BUSINESS HOURS". LETTERS SHALL NT BE LESS THAN 1" HIGH ON A CONTRASTING BACKGROUND. THE SIGN SHALL BE INSTALLED BY THE GENERAL CONTRACTOR ON THE STOREFRONT ALUMINUM HEADER FRAME.
18. ALL NEW PRIMARY ENTRANCES TO THE BUILDINGS AND FACILITIES SHALL BE MADE ACCESSIBLE TO THE PHYSICALLY DISABLED.
19. ACCESSIBLE ENTRANCES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, VISIBLE FROM APPROACHING PEDESTRIAN WAYS. GENERAL CONTRACTOR SHALL PROVIDE STANDARD SIGNAGE. CALIFORNIA REQUIRES ISA (INTERNATIONAL SYMBOL OF ACCESSIBILITY) AT ALL ACCESSIBLE ENTRANCES.
20. EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3 FEET IN WIDTH AND NOT LESS THAN 6 FEET - 8 INCHES IN HEIGHT. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE SO MOUNTED THAT THE CLEAR WIDTH OF DOORWAY IS NOT LESS THAN 32-INCHES
21. WHERE PAIR OF DOORS IS UTILIZED AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR UNOBSTRUCTED OPENING WIDTH OF 32-INCHES WITH THE LEAF POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
22. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, THAT DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF WRIST TO OPERATE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. REFER TO SECTION 404.2.7 OF IBC
23. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34-INCHES MINIMUM AND 48" ABOVE THE FLOOR. (34-INCHES TO 44-INCHES FOR CALIFORNIA ONLY)
24. THE FLOOR AND LANDING ON EACH SIDE OF AN ENTRANCE OR PASSAGE DOOR SHALL BE LEVEL AND CLEAR. THE LEVEL AND CLEAR AREA SHALL HAVE A LENGTH OF 60-INCHES IN THE DIRECTION OF TRAVEL AND THE LENGTH OF 48-INCHES IN OPPOSITE DIRECTION OF TRAVEL. SEE DIAGRAM "MANEUVERING CLEARANCE"
25. THE WIDTH OF THE LEVEL AND CLEAR AREA ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND 24-INCHES PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND 18-INCHES PAST THE STRIKE EDGE FOR THE INTERIOR DOORS.
26. THE FLOOR OR LANDING SHALL BE NOT MORE THAN ½" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN ¼" AND ½" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2
27. THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRIP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10" HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSHED SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
28. A NARROW FRAME WITH A BEVELED TOP (30 DEGREES MAX. BEVEL TO VERTICAL PLANE) INSTALLED AT THE BOTTOM OF THE GLASS DOOR (WITH NO SIDE FRAMES) MAY BE USED IN LIEU OF PROVIDING THE REQUIRED 10" UNINTERRUPTED SURFACE AT THE BOTTOM OF THE DOOR.
29. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS. SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED NOT EXCEED 15 LBS.

CORRIDORS AND AISLE:

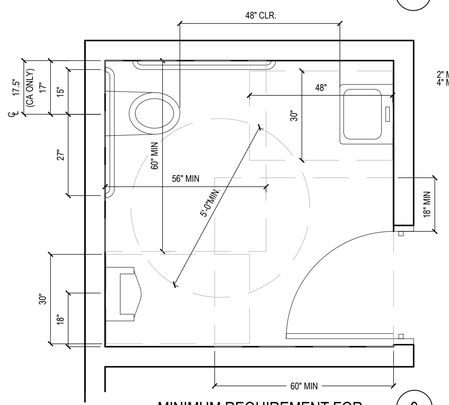
30. FLOOR SURFACES SHALL BE SLIP-RESISTANT
31. EVERY PORTION OF EVERY BUILDING IN WHICH ARE INSTALLED SEA TS, TABLES, MERCHANDISE, EQUIPMENT OR SIMILAR MATERIALS SHALL BE PROVIDED WITH AISLES LEADING TO AN EXIT.
32. EVERY AISLE SHALL BE NOT LESS THAN 3 FEET WIDE IF SERVING ONLY ONE SIDE, AND NOT LESS THAN 3 FEET-8 INCHES WIDE IF SERVING BOTH SIDES. SUCH MINIMUM WIDTH SHALL BE MEASURED AT THE POINT FARTHEST FROM AN EXIT, CROSS AISLE OR FOYER AND SHALL BE INCREASED BY 1-1/2" INCHES FOR EACH 5 FEET IN LENGTH TOWARD THE EXIT. CROSS AISLE OR FOYER WITH CONTINENTAL SEATING SIDE AISLES SHALL BE NOT LESS THAN 44 INCHES IN WIDTH.

SANITARY FACILITIES:

33. ACCESSIBLE SIGN CONTAINING TACTILE CHARACTER IS PROVIDED AT DOOR, THE SIGN SHALL BE ALONGSIDE THE DOOR ON LATCH SIDE AND AT DOUBLE DOORS, THE SIGN SHALL BE RIGHT OF THE RIGHT HANDED DOOR. THE SIGN CONTAINING TACTILE CHARACTERS SHALL HAVE 18" MINIMUM BY 18" MINIMUM SPACE ON THE FLOOR CENTERED ON SIGN. THE SIGN TACTILE CHARACTER SHALL BE 48" MINIMUM TO THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60" MAXIMUM TO THE BASELINE OF THE HIGHEST TACTILE CHARACTER ABOVE FLOOR.
34. CLEARANCE AROUND THE WATER CLOSET SHALL BE 60" MINIMUM MEASURED PERPENDICULAR FROM THE SIDEWALL, AND 56" MINIMUM MEASURED PERPENDICULAR FROM REAR WALL. NO OTHER FIXTURES OR OBSTRUCTION SHALL BE WITHIN WATER CLOSET CLEARANCE (PER ADA) (REFER TO LOCAL JURISDICTION FOR ADDITIONAL REQUIREMENTS.
35. WATER CLOSET COMPARTMENTS SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC CLOSING DEVICE, AND SHALL HAVE A CLEAR UNOBSTRUCTED OPENING WIDTH OF 32-INCHES WHEN LOCATED AT THE END AND 34-INCHES WHEN LOCATED AT THE SIDE WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROMITS CLOSED POSITION.
36. EXCEPT FOR DOOR OPENING WIDTH AND DOOR SWINGS; A CLEAR UNOBSTRUCTED ACCESS NOT LESS THAN 44-INCHES SHALL BE PROVIDED TO WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY THE DISABLED. THE SPACE IMMEDIATELY IN FRONT OF A WATER CLOSET COMPARTMENT SHALL BE NOT LESS THAN 48-INCHES AS MEASURED AT RIGHT ANGLES TO THE COMPARTMENT DOOR IN IT'S CLOSED POSITION.
37. THE HEIGHT OF ACCESSIBLE WATER CLOSETS SHALL BE A MINIMUM OF 17-INCHES AND A MAXIMUM OF 19-INCHES MEASURED TO THE TOP OF TOILET SEAT.
38. TOILET FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. CONTROLS FOR THE FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS, NO MORE THAN 44-INCHES ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS.
39. WHERE URINALS ARE PROVIDED, AT LEAST ONE SHALL HAVE A CLEAR SPACE 30-INCHES WIDE X 48-INCHES LONG IN FRONT OF THE URINAL.
40. WHEN MORE THAN ONE URINAL IS PROVIDED, AT LEAST ONE SHALL BE THE STALL-TYPE OR THE WALL-HUNG TYPE WITH THE RIM 17" MAXIMUM ABOVE THE FINISH FLOOR. URINALS SHALL BE 13-1/2" DEEP MINIMUM MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE.
41. A CLEAR FLOOR FORWARD APPROACH, AND KNEE AND TOE CLEARANCE SHALL BE PROVIDED. A SPACE 30-INCHES MINIMUM WIDE X 48-INCHES MINIMUM LONG SHALL BE PROVIDED IN FRONT OF A LAVATORY TO ALLOW A FORWARD APPROACH. ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR SHALL ADJOIN AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER CLEAR FLOOR SPACE. SUCH CLEAR FLOOR SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE UNDERNEATH THE LAVATORY.
42. LAVATORIES SHALL BE INSTALLED WITH THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE 34-INCHES MAXIMUM ABOVE THE FINISH FLOOR.
43. TOE CLEARANCE: SPACE UNDER AN ELEMENT BETWEEN THE FINISH FLOOR AND 9-INCHES ABOVE THE FINISH FLOOR SHALL BE CONSIDERED TOE CLEARANCE. TOE CLEARANCE SHALL EXTEND 17-INCHES MINIMUM TO 25-INCHES MAXIMUM UNDER AN ELEMENT WITH A WIDTH OF 30-INCHES MINIMUM. SPACE EXTENDING GREATER THAN 6-INCHES BEYOND THE AVAILABLE KNEE CLEARANCE AT 9-INCHES ABOVE THE FINISH FLOOR SHALL NOT BE CONSIDERED TOE CLEARANCE.
43. KNEE CLEARANCE: SPACE UNDER AN ELEMENT BETWEEN 9-INCHES AND 27-INCHES ABOVE THE FINISH FLOOR SHALL BE CONSIDERED KNEE CLEARANCE. KNEE CLEARANCE SHALL EXTEND 25-INCHES MAXIMUM UNDER AN ELEMENT AT 9-INCHES ABOVE THE FINISH FLOOR AND BE 30-INCHES WIDE MINIMUM. KNEE CLEARANCE SHALL BE 11-INCHES DEEP MINIMUM AT 9-INCHES ABOVE FINISH FLOOR, AND 8-INCHES DEEP MINIMUM AT 27-INCHES ABOVE FINISH FLOOR. BETWEEN 9-INCHES AND 27-INCHES ABOVE FINISH FLOOR, THE KNEE CLEARANCE SHALL BE PERMITTED TO REDUCE AT A RATE OF 1-INCH IN DEPTH FOR EACH 6-INCHES IN HEIGHT. (CALIFORNIA KNEE CLEARANCE IS 29-INCHES AT THE FRONT EDGE AND 27-INCHES AT 8-INCHES DEEP)
44. ALL PIPES (HOT WATER, DRAIN PIPES, ETC.) UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
45. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST, THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM. LEVER-OPERATED, PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGN. HAND OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.
46. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM REFLECTING EDGE NOT MORE THAN 40-INCHES FROM THE FLOOR.
47. LOCATE TOWEL, SANITARY NAPKIN, AND WASTE RECEPTACLES WITH ALL OPERABLE PARTS NOT MORE THAN 40-INCHES FROM THE FLOOR.
48. LOCATE TOILET TISSUE DISPENSERS ON THE WALL WITHIN 7-9 INCHES IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET SHALL BE 15-INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR, AND SHALL NOT BE LOCATED BEHIND THE GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY, OR DO NOT ALLOW CONTINUOUS PAPER FLOW.



ACCESSIBLE SANITARY FACILITIES (8)



MINIMUM REQUIREMENT FOR ACCESSIBLE SANITARY FACILITIES (9)

GRAB BARS:

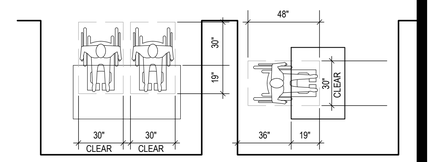
49. GRAB BARS, FASTENERS AND MOUNTING DEVICES SHALL BE DESIGNED FOR 250 LBS. PER LINEAR FEET LOAD.
50. GRAB BARS SHALL BE LOCATED ON EACH SIDE, OR ONE SIDE AND THE BACK OF THE PHYSICALLY DISABLED TOILET STALL OR COMPARTMENT AND SHALL BE SECURELY ATTACHED 35-INCHES TO TOP OF GRAB BAR AND PARALLEL TO THE FLOOR. VERTICAL GRAB BAR SHALL BE 18-INCHES LONG, INSTALLED AT 40-INCHES FROM THE REAR WALL AND 40-INCHES ABOVE FINISH FLOOR.
51. GRAB BARS AT THE SIDE WALL SHALL BE AT LEAST 48-INCHES LONG MINIMUM, LOCATED 12-INCHES MAXIMUM FROM THE REAR WALL AND EXTENDING 54-INCHES MINIMUM FROM THE REAR WALL. THE REAR WALL GRAB BAR SHALL BE 42-INCHES LONG MINIMUM AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12-INCHES MINIMUM ON ONE SIDE AND 24-INCHES MINIMUM ON THE OTHER.
52. GRAB BARS WITH CIRCULAR CROSS-SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/4 INCHES MINIMUM TO 2 INCHES MAXIMUM. GRAB BARS WITH NON-CIRCULAR CROSS SECTIONS SHALL HAVE A CROSS-SECTION DIMENSION OF 2 INCHES MAXIMUM AND A PERIMETER DIMENSION OF 4 INCHES MINIMUM AND 4.8 INCHES MAXIMUM.
53. IF THE GRAB BAR IS MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2 INCHES.
54. GRAB BARS AND ANY WALL OR OTHER SURFACES ADJACENT TO GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.
55. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
56. COAT HOOKS SHALL BE LOCATED WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48-INCHES MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15-INCHES MINIMUM ABOVE THE FINISH FLOOR.
57. WHERE LOCKERS ARE PROVIDED, AT LEAST ONE AND NOT LESS THAN 5% PERCENT OF ALL LOCKERS SHALL BE MADE ACCESSIBLE TO THE PHYSICALLY DISABLED. A PATH OF TRAVEL NOT LESS THAN 36-INCHES IN CLEAR WIDTH SHALL BE PROVIDED TO THESE LOCKERS AND A CLEAR SPACE FOR A CIRCLE WITH DIAMETER OF 60-INCHES.

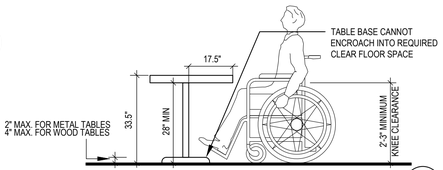
TELEPHONES:

58. IF PUBLIC TELEPHONES ARE PROVIDED, THEY SHALL COMPLY WITH DISABLED ACCESS REQUIREMENTS.
59. PROVIDE 30' X 48' CLEAR SPACE AT TELEPHONE. THE CLEAR SPACE MAY INCLUDE KNEE SPACE UNDER THE TELEPHONE.
60. THE HIGHEST OPERABLE PART OF THE TELEPHONE SHALL BE WITHIN 48- INCHES OF THE FLOOR IF FORWARD APPROACHED AND UNOBSTRUCTED SIDE REACH AND 48-INCHES MAX IF SIDE APPROACHED WITH 10" MAX OBSTRUCTED AND 46" MAX WITH 24" MAX OBSTRUCTION.
61. SIDE APPROACH TELEPHONES REQUIRE THAT THE ENCLOSURE OVERHANG BE NO MORE THAN 19-INCHES AND BE AT LEAST 27-INCHES FROM THE FLOOR.
62. THE CORD FROM THE TELEPHONE TO THE HANDSET SHALL BE AT LEAST 29-INCHES LONG.
63. TELEPHONES SHALL BE HEARING AID COMPATIBLE PER ICC/ANSI SEC. 704.2.5
64. TELEPHONES SHALL HAVE PUSH-BUTTON CONTROLS WHERE SERVICE FOR SUCH EQUIPMENT IS AVAILABLE.

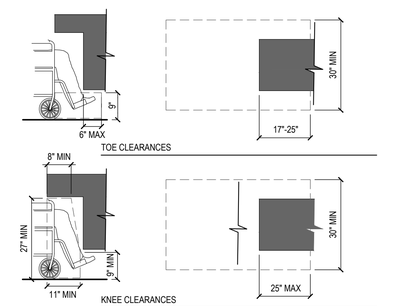
ADDITIONAL REQUIREMENTS:

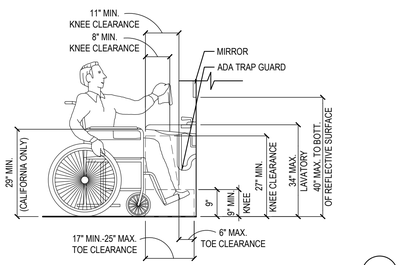
65. THE CENTER OF RECEPTACLE OUTLETS SHALL BE NOT LESS THAN 15- INCHES ABOVE THE FLOOR OR WORKING PLATFORMS,
66. THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE 48" MAX HEIGHT FOR UNOBSTRUCTED FORWARD AND SIDE REACH, 48" MAX HEIGHT WITH 10" MAX. OBSTRUCTION AT SIDE REACH. 46" MAX HEIGHT AT 24" MAX OBSTRUCTION AT SIDE REACH
67. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS. THE SYMBOL SPECIFIED ABOVE SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595A.





MINIMUM CLEARANCES FOR SEATING AND TABLES (10)





TOE & KNEE CLEARANCES (11)

68. CALIFORNIA ONLY: EACH PARKING SPACE RESERVED FOR PERSONS WITH PHYSICAL DISABILITIES SHALL BE IDENTIFIED BY A REFLECTORIZED SIGN PERMANENTLY POSTED IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE CONSISTING OF A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT IN WHITE ON DARK BLUE BACKGROUND. THE SIGN SHALL NOT BE SMALLER THAN 70 SQUARE INCHES IN ARE AND WHEN IN PATH OF TRAVEL, SHALL BE POSTED AT A MINIMUM OF 60-INCHES FROM THE BOTTOM OF THE SIGN TO THE PARKING SPACE FINISHED GRADE. AN ADDITIONAL SIGN SHALL ALSO BE POSTED AT ENTRANCE TO OFF-STREET PARKING FACILITY OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE. THE SIGN SHALL NOT BE LESS THAN 12-INCHES BY 18-INCHES IN SIZE WITH LETTERING NOT LESS THAN 1-INCH IN HEIGHT. REFER TO DETAIL 4 / A-408
69. AT KITCHEN: SINKS, FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS. LEVER- OPERATED, PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGN. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS FOR AT LEAST 10 SECONDS.

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REVISIONS:

ISSUE DATE:

ISSUE FOR PERMIT	10-20-22
ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

idGROUP

CARRY D. MCLAIN
REGISTERED ARCHITECT
AGRICULTURE
NO. 106103
STATE OF TENNESSEE
10-20-22

PANDA EXPRESS
PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

A-406

HANDICAPPED NOTES AND DETAILS

PANDA HOME 2600 R4

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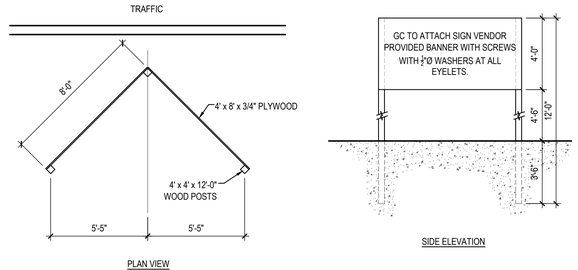
NOTE: GC TO COORDINATE PLACEMENT ONSITE WITH PANDA PROJECT MANAGER.

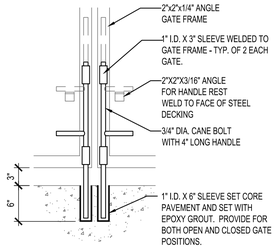


PLAN VIEW

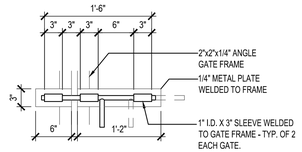
SIDE ELEVATION

"COMING SOON" SIGN DETAIL 16

Scale= 1/4" = 1'-0" A-407



"A" CANE BOLT DETAIL

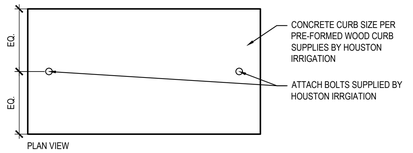


"B" GATE LATCH DETAIL

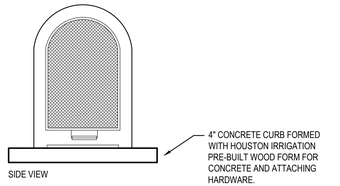
DUMPSTER GATE LATCH DETAILS 15

Scale= NTS A-407

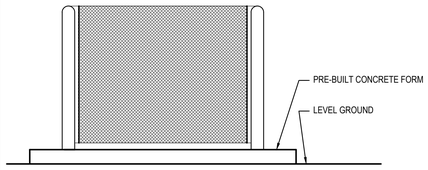
PROVIDE & INSTALL CAGE AND COVER FOR THE BACK-FLOW PREVENTER AT 4" CONCRETE CURB IN LANDSCAPE AREA; GORILLA CAGE, MANUFACTURED BY HOUSTON IRRIGATION SERVICES SPRING, TEXAS (281-705-9701). PROVIDE INSULATED COVER, 'AQUA SHIELD' MODEL # BFP1-S FOR COLDER REGIONS OF US. COORDINATE WITH PANDA PM.



PLAN VIEW



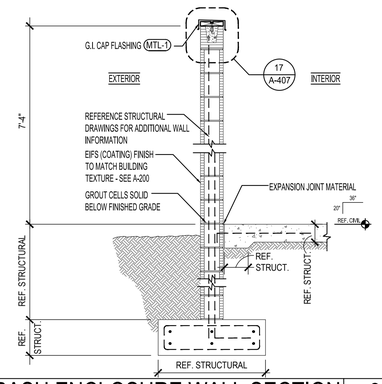
SIDE VIEW



SIDE VIEW

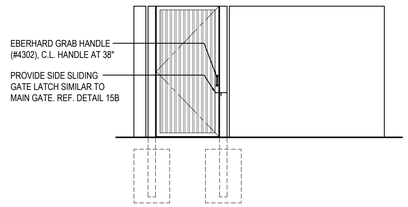
BACKFLOW PROTECTION CAGE 11

Scale= NTS A-407



TRASH ENCLOSURE WALL SECTION 8

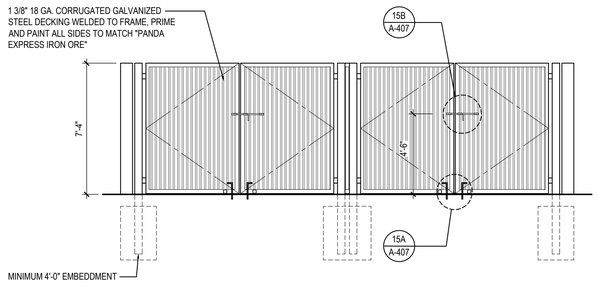
Scale= 1/2" = 1'-0" A-407



SIDE ELEVATION

SIDE ELEVATION 4

Scale= 1/4" = 1'-0" A-407



FRONT ELEVATION

NOTE:
THE TRASH ENCLOSURE EXTERIOR CMU WALLS TO HAVE EIFS (COATING) FINISH TO MATCH BUILDING TEXTURE - SEE: A-200

TRASH ENCLOSURE WALL COLOR SHALL MATCH (EIFS-1)

TRASH ENCLOSURE GATE COLOR SHALL MATCH "PANDA EXPRESS IRON ORE"

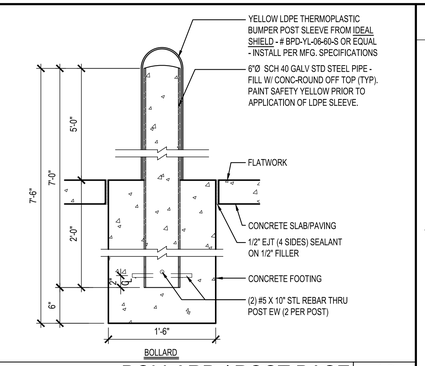
INTERIOR WALLS SHALL BE SMOOTH, CLEANABLE AND SEALED WITH AN APPROVED EPOXY CEMENT SEALER. COLOR TO MATCH EXTERIOR.

NOTE: CONTRACTOR TO SUPPLY & INSTALL ALL HINGES, GATE LATCHES, CANE BOLTS, ETC. AS INDICATED.

NOTE: ANY DIAGONAL SUPPORT FOR GATES SHALL BE INSTALLED ON THE INSIDE OF ENCLOSURE. THIS SHALL NOT BE VISIBLE ON THE OUTSIDE OF THE GATE.

FRONT ELEVATION 2

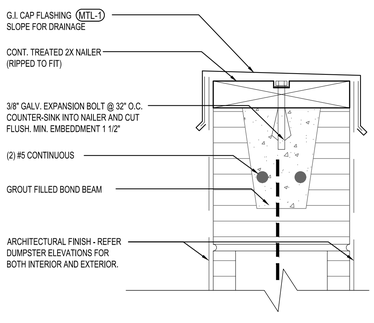
Scale= 1/4" = 1'-0" A-407



BOLLARD

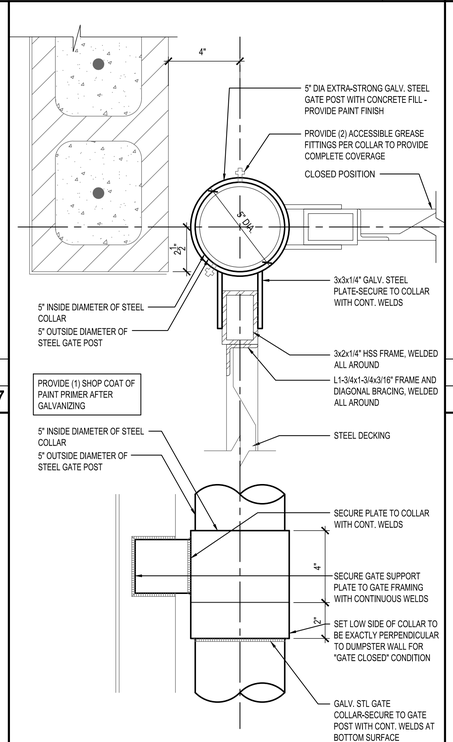
BOLLARD / POST BASE 18

Scale= 1" = 1'-0" A-407



DUMPSTER CAP DETAIL 17

Scale= 3" = 1'-0" A-407



HINGE DETAIL 13

Scale= 3" = 1'-0" A-407

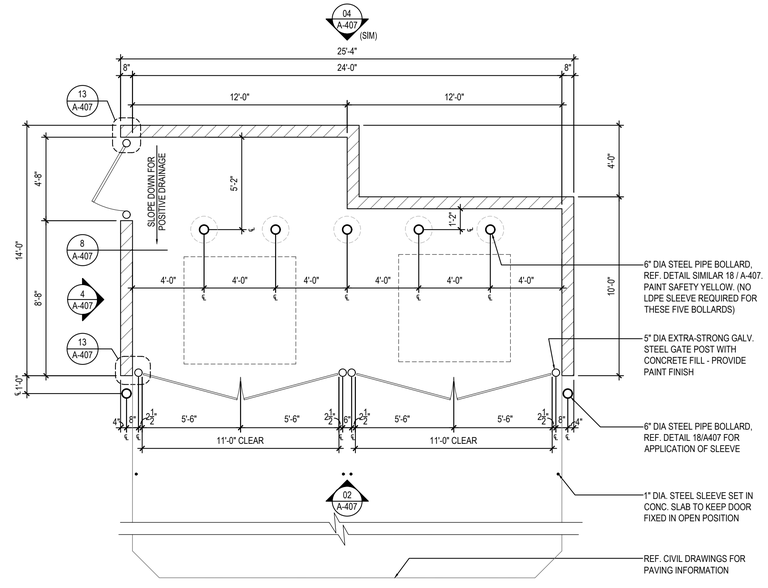
NOT USED 10

Scale: A-407

NOT USED 9

Scale: A-407

NOTE:
FLOOR OF DUMPSTER AREA MUST BE BROOM FINISH AND SEALED WITH (AQUA MIX SEALER'S CHOICE GOLD) CEMENT SEALER.



TRASH ENCLOSURE 1

Scale= 1/4" = 1'-0" A-407

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NO. 106100
STATE OF TENNESSEE

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PANDA EXPRESS

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CLARKSVILLE, TN 37040

A-407

TRASH ENCLOSURE DETAILS

PANDA HOME 2600 R4

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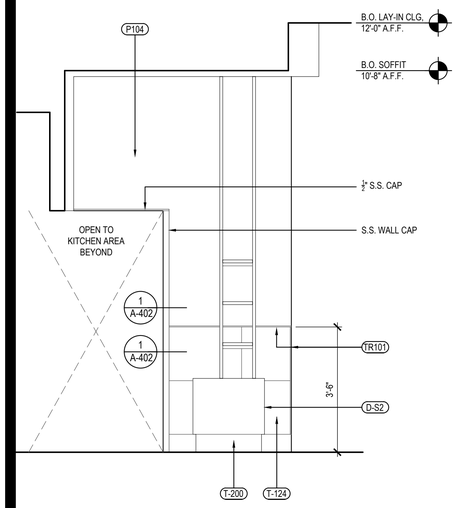
NOTES:
1. ALL EXPOSED WALL TILE EDGES MUST BE FINISHED TO MATCH TILE SURFACE. EASE TILE EDGE AS ALLOWABLE.
2. BLINDS SHALL BE PROVIDED BY OWNER AND INSTALLED BY VENDOR. COORDINATE WITH PANDA PROJECT MANAGER PRIOR TO INSTALLATION
3. PROVIDE 1/2" CLEAR PLASTIC CORNER GUARD FOR ALL INTERIOR PAINTED SURFACE W/ CLEAR GLUE.
4. ALL TILES INSTALLED NOT TO BE CUT LESS THAN 1/2 THE TILE WIDTH.
5. REFERENCE SHEET A-103 FOR WALL PANEL SCHEDULE
6. REFERENCE SHEET A-103 FOR SPECIAL SURFACE SCHEDULE
7. REFERENCE SHEET A-103 FOR INTERIOR PAINT SCHEDULE
8. REFERENCE SHEET A-104 FOR TILE SCHEDULE
9. REFERENCE SHEET A-104 FOR EXTENT OF COVE TRIM AT BASE

GENERAL DECOR NOTE:
ALL WALL DECORATIONS, PRINT LOCATIONS, ETC... TO BE VERIFIED WITH PANDA EXPRESS BY G.C.

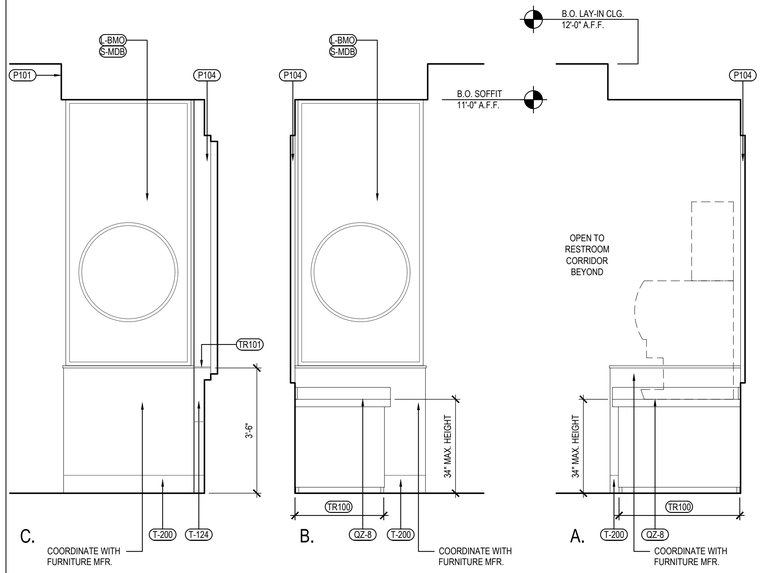
G.C. SHALL PROVIDE/INSTALL ANY CONCEALED BACKING, MISC. HARDWARE NOT PROVIDED BY OWNER, ETC... AS REQUIRED.

COORDINATE LOCATION OF ALARM DEVICES WITH ARTWORK (IF REQUIRED).



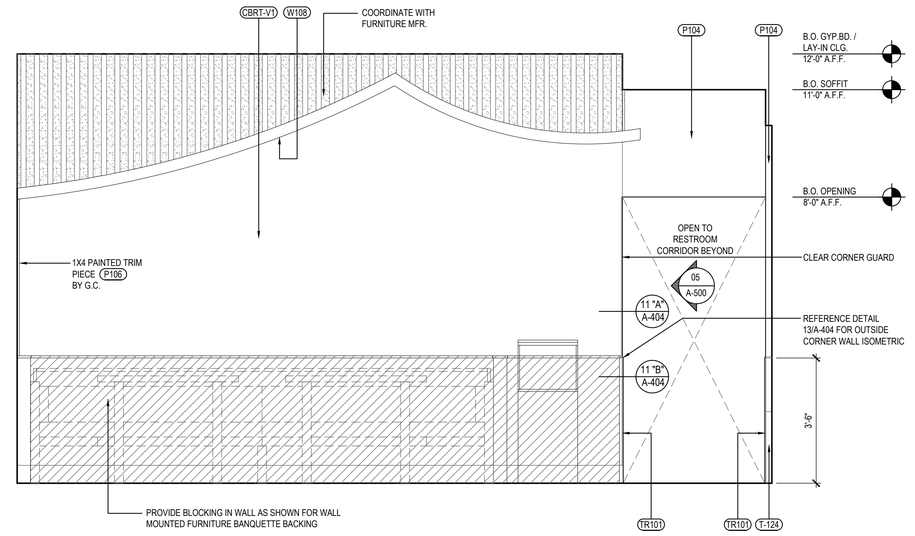
DINING ROOM ELEVATION 4

Scale= 1/2" = 1'-0" A-500



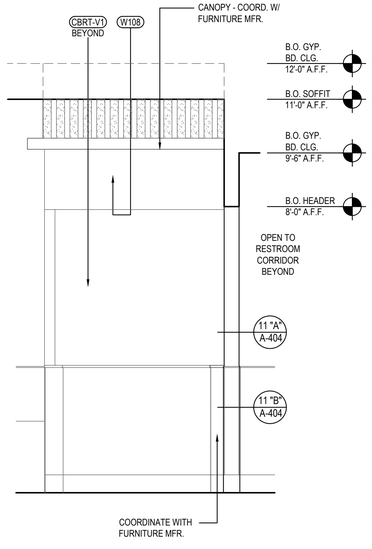
DINING ROOM ELEVATION 3

Scale= 1/2" = 1'-0" A-500



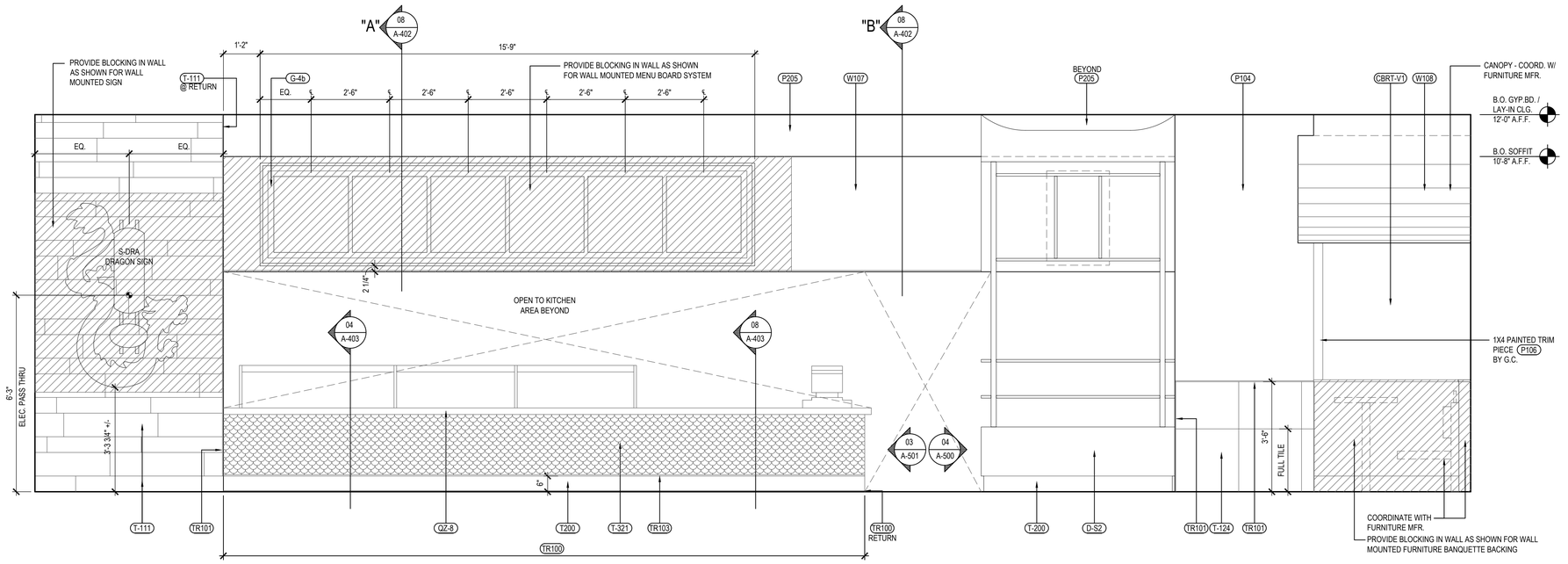
DINING ROOM ELEVATION 2

Scale= 1/2" = 1'-0" A-500



DINING ROOM ELEVATION 5

Scale= 1/2" = 1'-0" A-500



DINING ROOM ELEVATION 1

Scale= 1/2" = 1'-0" A-500

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ISSUE DATE:

	ISSUE FOR PERMIT	10-20-22
	ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

idGROUP

CARRY D. MCLAIN
REGISTERED ARCHITECT
AGRICULTURE
NO. 106100
STATE OF TENNESSEE

10-20-22

PANDA EXPRESS

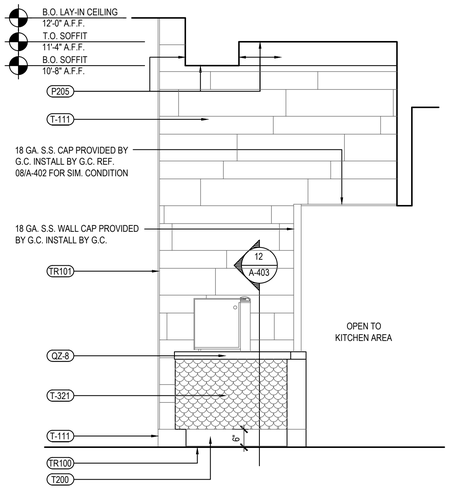
PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

A-500

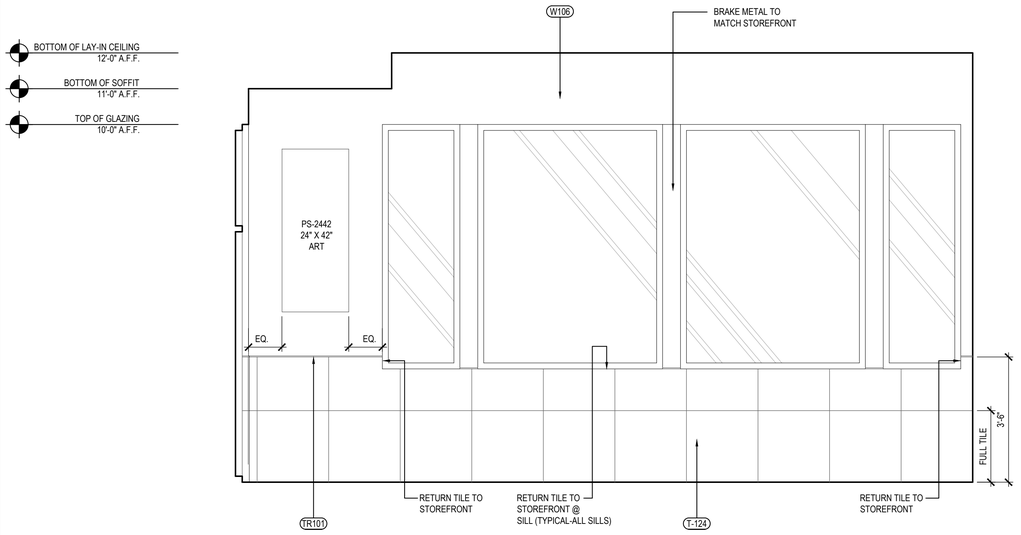
INTERIOR ELEVATIONS

PANDA HOME 2600 R4

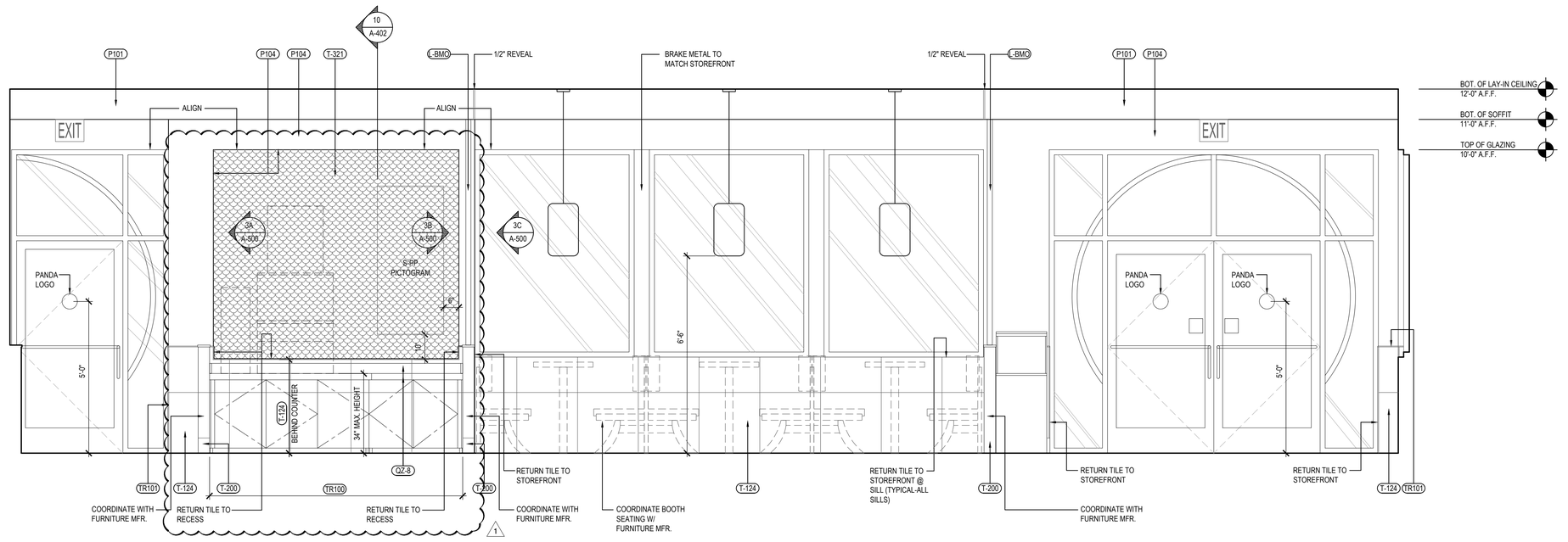
ISSUE FOR BID 01-30-2023



SERVICE COUNTER ELEVATION | 3
Scale= 1/2" = 1'-0" | A-501



DINING ROOM ELEVATION | 2
Scale= 1/2" = 1'-0" | A-501



DINING ROOM ELEVATION | 1
Scale= 1/2" = 1'-0" | A-501

ISSUE FOR BID 01-30-2023

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
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INTERIOR ELEVATIONS

PANDA HOME 2600 R4

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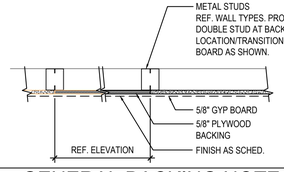
1 CONCEALED BACKING AS INDICATED BY THE DASHED BOX AREAS AROUND WALL SHELVING, SINK BACKS, ETC. SHALL CONSIST OF THE FOLLOWING:

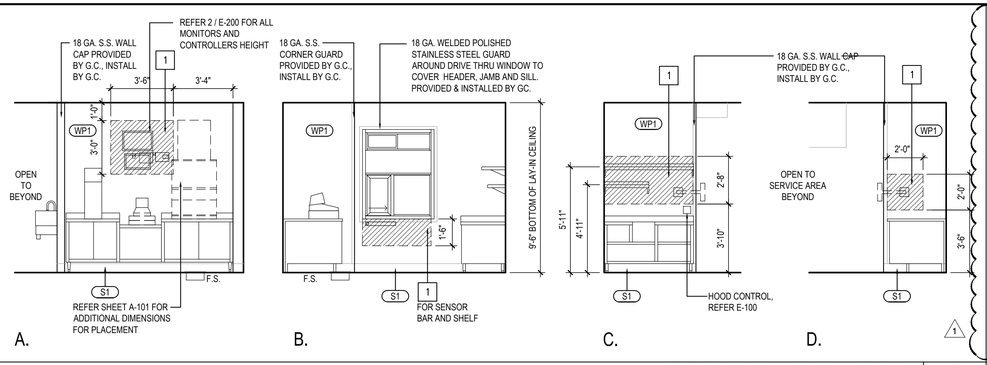
- BACKING @ ALL RATED WALLS AND WALL UNDER EXHAUST HOOD SHALL CONSIST OF 6" 20 GA. METAL STRAPS INSTALLED PRIOR TO INSTALLATION OF GYP. BOARD @ ALL AREAS REQUIRED FOR FASTENING EQUIPMENT SECURELY TO STUD WALL.

- BACKING @ ALL OTHER WALLS SHALL CONSIST OF 5/8" PLYWOOD SHEATHING INSTALLED OVER STUDS, FLUSH WITH ADJANCENT GYP BOARD. WITHIN DASHED BOX AREAS. FINISH OVER WITH SPECIFIED WALL PANEL FINISH PER KITCHEN ELEVATIONS.



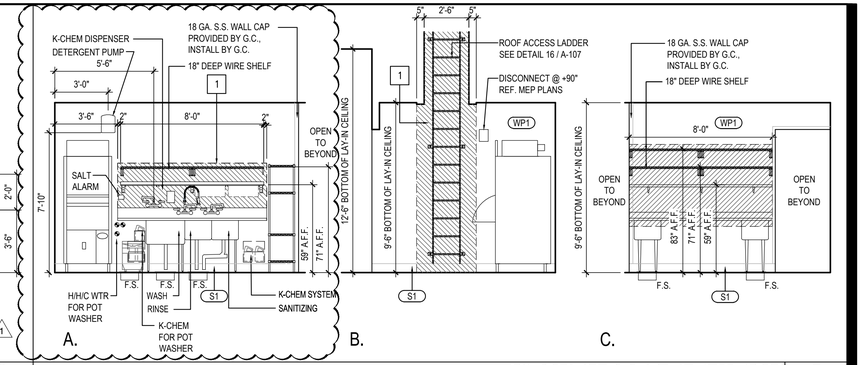
GENERAL BACKING NOTES 12

Scale= N.T.S. A-502



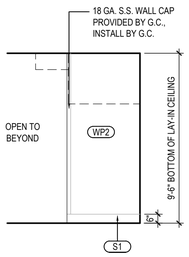
DRIVE-THRU ELEVATIONS 6

Scale= 1/4" = 1'-0" A-502



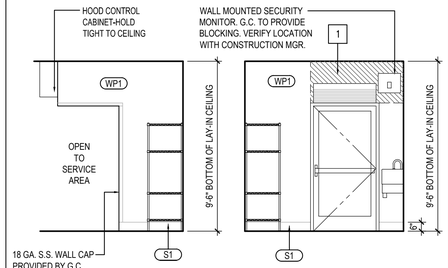
KITCHEN PREP ELEVATION 5

Scale= 1/4" = 1'-0" A-502



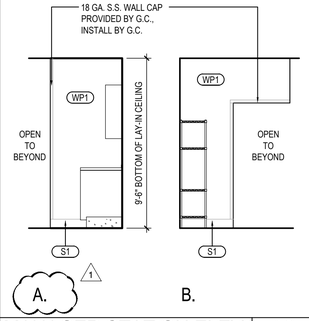
COOKLINE 9

Scale= 1/4" = 1'-0" A-502



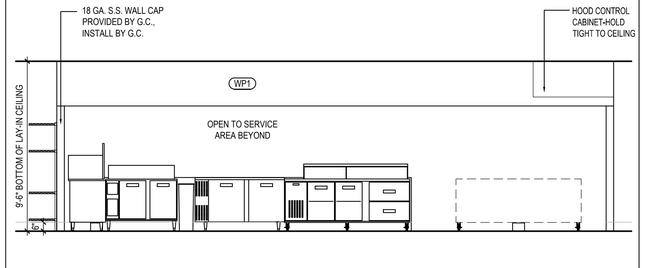
DRIVE THRU DOOR ELEVATIONS 8

Scale= 1/4" = 1'-0" A-502



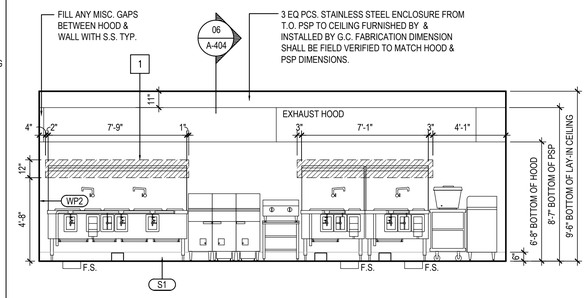
MANAGER STATION ELEV. 10

Scale= 1/4" = 1'-0" A-502



WALL BEHIND SERVICE 4

Scale= 1/4" = 1'-0" A-502



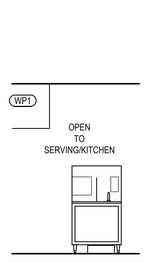
COOKLINE ELEVATION 3

Scale= 1/4" = 1'-0" A-502

POWER INVERTER THIS SIDE OF BULKHEAD - REF ELEC DRAWINGS
WALL MOUNTED SECURITY MONITOR. G.C. TO PROVIDE BLOCKING. VERIFY LOCATION WITH CONSTRUCTION MGR.
WALL MOUNTED CO2 DISPLAY - REF ELEC DRAWINGS
18 GA. S.S. CORNER GUARD PROVIDED BY G.C., INSTALL BY G.C.
ELECTRICAL PANELS REF. ELECTRICAL PLANS
PEX MANIFOLDS THIS SIDE OF BULKHEAD - REF PLUMBING DRAWINGS
12'-6" BOTTOM OF LAY-IN CEILING
ALARM LOCK
P9AS
S.S. MOP SINK
18 GA. S.S. WALL CAP PROVIDED BY G.C., INSTALL BY G.C.
S.S. PANEL TO BE PROVIDED & INSTALLED BY G.C.
G.C. TO REMOVE LOCKER LEGS & SECURE TO WALL W/ MIN. (4) 1" LONG SCREWS W/ 1" O.D. WASHERS IN TOP & BOTTOM LOCKERS. INSTALL @12" A.F.F. FROM BOTTOM. HOLD TIGHT TO CORNER
A.
WATER HEATER PIPES TO PENETRATE WALL CAVITY, NOT CEILING TILE
TANKLESS WATER HEATERS. REFER PLUMBING DRAWINGS
ELMDOR 12X12 METAL WALL ACCESS PANEL
DOM. WTR. SHUTOFF REF. MEP
WALL MOUNTED CO2 SENSOR - REF ELEC DRAWINGS
B.

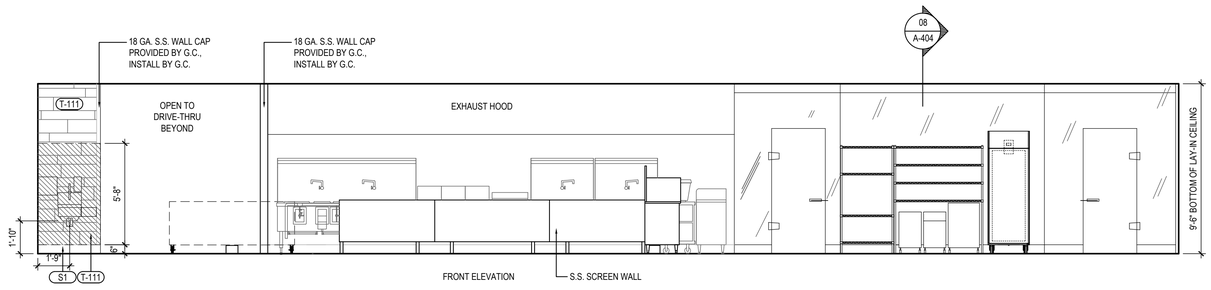
KITCHEN PREP / MOP SINK ELEVATIONS 7

Scale= 1/4" = 1'-0" A-502



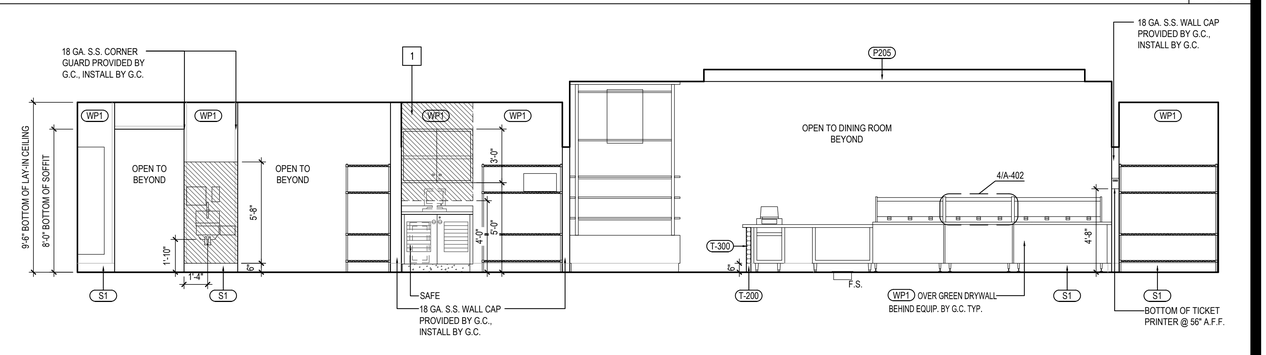
ELEV. 11

Scale= 1/4" = 1'-0" A-502



PREPARATION TABLES @ WORKTOP FREEZER ELEVATION 2

Scale= 1/4" = 1'-0" A-502



KITCHEN PREP / MOP SINK ELEVATIONS 7

Scale= 1/4" = 1'-0" A-502

REAR SIDE OF SERVICE COUNTER 1

Scale= 1/4" = 1'-0" A-502

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A-502

KITCHEN ELEVATIONS

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-2023

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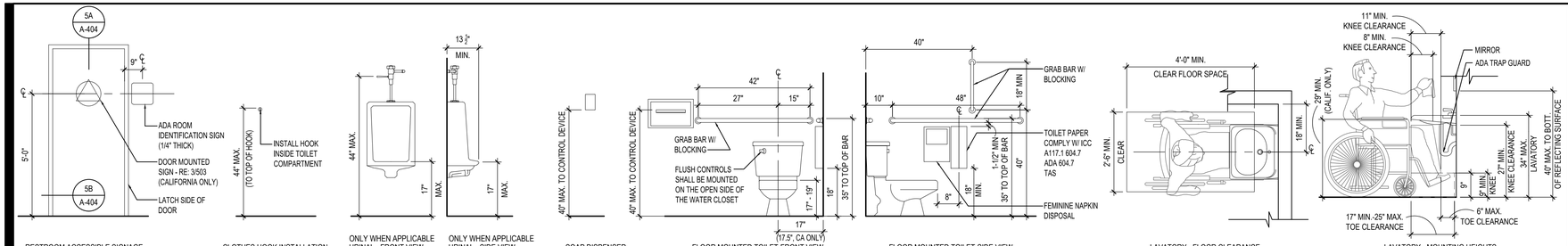
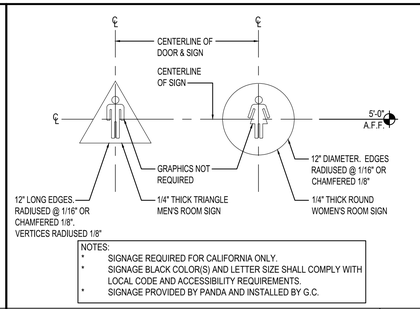


RESTROOM ACCESSIBLE SIGNAGE | CLOTHES HOOK INSTALLATION | ONLY WHEN APPLICABLE URINAL - FRONT VIEW | ONLY WHEN APPLICABLE URINAL - SIDE VIEW | SOAP DISPENSER | FLOOR MOUNTED TOILET-FRONT VIEW | FLOOR MOUNTED TOILET-SIDE VIEW | LAVATORY - FLOOR CLEARANCE | LAVATORY - MOUNTING HEIGHTS

STANDARD ACCESSIBLE MOUNTING HEIGHTS AND CLEARANCES | 4

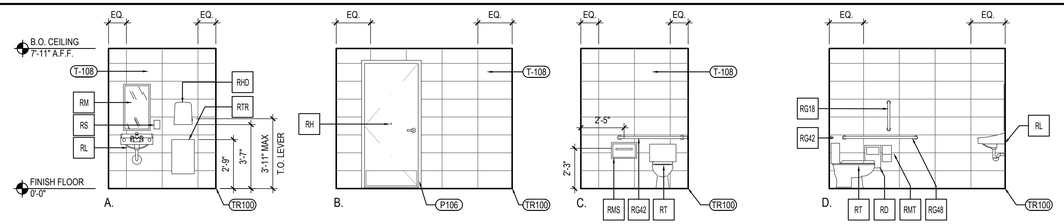
Scale= NTS | A-503



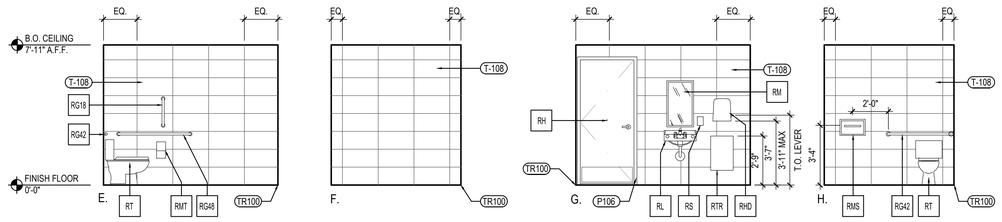
NOTES:
- SIGNAGE REQUIRED FOR CALIFORNIA ONLY.
- SIGNAGE BLACK COLOR(S) AND LETTER SIZE SHALL COMPLY WITH LOCAL CODE AND ACCESSIBILITY REQUIREMENTS.
- SIGNAGE PROVIDED BY PANDA AND INSTALLED BY G.C.

RESTROOM DOOR SIGNS | 3

Scale= 1" = 1'-0" | A-503



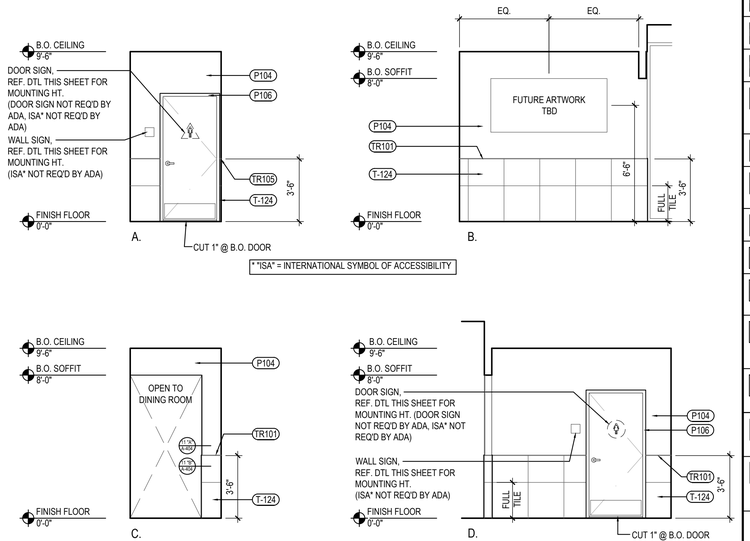
WOMEN'S RESTROOM



MEN'S RESTROOM

RESTROOM ELEVATIONS | 2

Scale= 1/4" = 1'-0" | A-503



* "ISA" = INTERNATIONAL SYMBOL OF ACCESSIBILITY

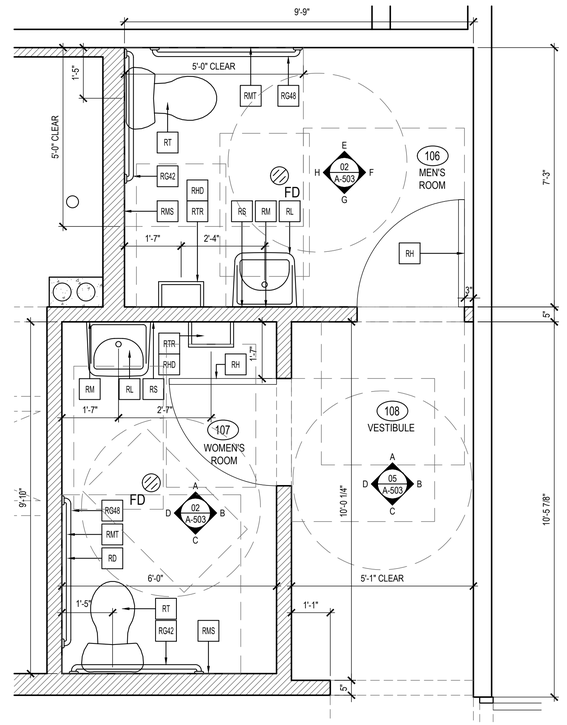
RESTROOM VESTIBULE ELEVATIONS | 5

Scale= 1/4" = 1'-0" | A-503

TOILET ACCESSORY SCHEDULE

NO	DESCRIPTION
RG42	BOBRICK GRAB BAR, 42" LONG B-6806 1 1/2" , SATIN FINISH; FURNISHED BY LOCKNET, INSTALLED BY G.C.
RG48	BOBRICK GRAB BAR, 48" LONG B-6806 1 1/2" SATIN FINISH; FURNISHED BY LOCKNET, INSTALLED BY G.C.
RG18	BOBRICK GRAB BAR, 18" LONG B-6806 1 1/2" SATIN FINISH; FURNISHED BY LOCKNET, INSTALLED BY G.C.
RM	BOBRICK CHANNEL FRAME MIRROR B-165 (1836) 18"X36" STAINLESS STEEL CHANNEL FRAME FURNISHED BY LOCKNET, INSTALLED BY G.C. MOUNT 40" MAX. TO BOTTOM OF REFLECTING SURFACE
RS	SOAP DISPENSER (BY VENDOR)
RMS	BOBRICK SEAT COVER DISPENSER B-221 STAINLESS STEEL, SATIN FINISH FURNISHED BY LOCKNET, INSTALLED BY G.C.
RTR	BOBRICK SURFACE MOUNTED TRASH RECEPTACLE MODEL # B-277; FURNISHED BY LOCKNET, INSTALLED BY G.C.
RHD	PAPER TOWEL DISPENSER FURNISHED BY PANDA EXPRESS, INSTALLED BY G.C.
RMT	BOBRICK MUTI-ROLL TOILET TISSUE DISPENSER B-2888 STAINLESS STEEL, SATIN FINISH FURNISHED BY LOCKNET, INSTALLED BY G.C.
RT	AMERICAN STANDARD CADET RIGHT HEIGHT ELONGATED TOILET 2467.016 TLT, 4142.600 TANK, AMERICAN STANDARD #5321.110 SEAT, COLOR: WHITE. TRIP TO BE ON OPEN SIDE. FURNISHED AND INSTALLED BY G.C.
RL	ZURN WALL HUNG LAVATORY Z5344, 20" X 18" VITREOUS CHINA, WITH 4" CENTER FAUCET HOLES & ZURN Z-1231 CONCEALED ARM CARRIER FURNISHED AND INSTALLED BY G.C.
RD	BOBRICK RECESSED SANITARY NAPKIN DISPOSAL B-3513 STAINLESS STEEL, SATIN FINISH FURNISHED BY LOCKNET, INSTALLED BY G.C.
RH	BOBRICK SURFACE-MOUNTED CLOTHES HOOK AND BUMPER B-233 SOLID ALUMINUM CASTING, MATTE FINISH, INSIDE OF RESTROOM DOORS FURNISHED BY LOCKNET, INSTALLED BY G.C.

* INSULATE ALL PIPES (TRAP & HOT WATER) AT ACCESSIBLE LAVATORIES.



ENLARGED RESTROOM PLANS | 1

Scale= 1/2" = 1'-0" | A-503

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A-503

ENLARGED RESTROOM PLANS AND ELEVATIONS

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-2023

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STRUCTURAL NOTES

GENERAL

1. THIS PROJECT SHALL MEET ALL REQUIREMENTS OF THE CITY OF CLARKSVILLE,TN AND THE 2021 INTERNATIONAL BUILDING CODE.
2. THE GENERAL CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL OPENINGS (COORDINATE WITH APPLICABLE TRADES). THE CONTRACTOR SHALL PROVIDE FOR ALL OPENINGS, WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT. ANY DEVIATION FROM OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR APPROVAL PRIOR TO CONSTRUCTION.
3. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES BEFORE PROCEEDING WITH THE WORK.
4. COMPLETE SHOP DRAWINGS AS REQUIRED FOR THE STRUCTURAL WORK SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF CONSTRUCTION IN ACCORDANCE WITH THE SPECIFICATIONS. SUCH REVIEW BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR CORRECT FABRICATION AND CONSTRUCTION OF THE WORK. ALLOW TEN (10) BUSINESS DAYS FOR REVIEW FROM THE TIME SUBMITTALS ARE RECEIVED IN OUR OFFICE.
5. ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO THE STRUCTURE OR ANY PART OF THE STRUCTURE DETAILED ON THESE DRAWINGS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN-WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING SUGGESTED.
6. THE STRUCTURAL DRAWINGS ARE NOT TO BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS, OR FIT OF MATERIALS.
7. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKMEN AND OTHER PERSONS DURING CONSTRUCTION.

SPECIAL INSPECTION

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION:
(REFERENCE ADJACENT TABLES FOR ADDITIONAL INFORMATION.)

1. SOILS AND FOUNDATIONS
2. CAST-IN-PLACE CONCRETE
3. WOOD CONSTRUCTION
4. SPECIAL CASES (EPOXY ANCHORS)

DESIGN LOADS

1. ROOF LIVE LOAD 20 PSF
2. ROOF DEAD LOAD 20 PSF
3. WIND LOAD BASED ON ASCE 7-16
   V_{ULT} = 105 MPH
   V_{ASD} = 81 MPH
   RISK CATEGORY = II
   EXPOSURE CATEGORY B
   INTERNAL PRESSURE COEFFICIENT GC_{pi}: ±0.18
   COMPONENTS AND CLADDING:
   (ROOF ANGLE 0 TO 7°)
   ULTIMATE
   +16.0 PSF (ZONE 1, EFF. AREA = 100 FT.^{2})
   -30.4 PSF
   +16.0 PSF (ZONE 2, EFF. AREA = 100 FT.^{2})
   -40.3 PSF
   +16.0 PSF (ZONE 3, EFF. AREA = 100 FT.^{2})
   -48.0 PSF
   +23.2 PSF (ZONE 4, EFF. AREA = 20 FT.^{2})
   -25.3 PSF
   +23.2 PSF (ZONE 5, EFF. AREA = 20 FT.^{2})
   -30.5 PSF
   44.9 PSF (PARAPETS, LOAD CASE A)
   -49.0 PSF (PARAPETS, LOAD CASE B)
4. SEISMIC LOADS
   S_S = 0.404
   S_1 = 0.178
   SITE CLASS D (ASSUMED)
   S_{DS} = 0.398
   S_{D1} = 0.266
   DESIGN CATEGORY D
5. SNOW LOADS
   GROUND SNOW Pg = 15 PSF
   FLAT ROOF SNOW Pf = 15 PSF
   C_e = 1.0
   I = 1.0
   Ct = 1.0
6. SEE ROOF PLAN FOR ADDITIONAL MECHANICAL LOADS.

FOUNDATION DESIGN AND SITEWORK FOR BUILDING

1. PER LETTER OF INTENT DATED MAY 12, 2022, EXHIBIT "C", THE SELLER SHALL DELIVER A CERTIFIED COMPACTED PAD. REFER TO EXHIBIT C FOR SPECIFICATIONS
2. THE ACTUAL BEARING GRADE SHALL BE CHECKED IN THE FIELD DURING CONSTRUCTION BY A SOILS CONSULTANT TO ENSURE THAT THE FOUNDATION SYSTEM IS SUPPORTED BY SUITABLE BEARING SOILS AND WILL PERFORM IN ACCORDANCE WITH THE ASSUMED CONDITIONS.
3. FOUNDATION DESIGN AND SITEWORK SHALL BE VERIFIED PRIOR TO PLACEMENT OF CONCRETE. A WRITTEN VERIFICATION SIGNED AND SEALED BY A GEOTECHNICAL ENGINEER SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD STATING THAT THE BEARING ELEVATIONS EXPOSED AFTER SITE STRIPPING HAVE BEEN INSPECTED AND ARE ADEQUATE TO SUPPORT A MINIMUM OF 1,500 PSF (ALLOWABLE SOIL BEARING CAPACITY) AND THE SOILS SUPPORTING THE SLAB-ON-GRADE ARE ADEQUATE TO MINIMIZE DIFFERENTIAL MOVEMENT TO LESS THAN ½" AND TOTAL MOVEMENT TO LESS THAN 1".
4. PROOFROLL THE EXPOSED SUBGRADE TO DETECT SOFT OR YIELDING SOILS. REMOVE ANY SOFT OR YIELDING SOILS, SCARIFY, MOISTURE CONDITION AND RECOMPACT IN ACCORDANCE WITH ASTM D-698.
5. FOUNDATION DESIGN IS BASED ON AN ALLOWABLE BEARING PRESSURE OF 1,500 PSF AT MINIMUM 24" INTO SUITABLE EXISTING SOILS. MINIMUM CONTINUOUS FOOTING WIDTH IS 18 INCHES. MINIMUM FOOTING DEPTH IS 24" BELOW GRADE.
6. PROVIDE POSITIVE DRAINAGE AWAY FROM EXCAVATIONS SO AS NOT TO ALLOW STANDING WATER FOR LONG PERIODS OF TIME.
7. PROVIDE A 10 MIL THICK VAPOR BARRIER BETWEEN THE COMPACTED BASE AND CONCRETE SLAB.
8. DO NOT PUNCTURE THE VAPOR BARRIER. LAP AND TAPE ENDS.
9. BACKFILL AND COMPACT UTILITY TRENCHES AS DESCRIBED ABOVE.
10. PERFORM ALL SITEWORK UNDER THE DIRECT SUPERVISION OF A GEOTECHNICAL ENGINEER.

CONCRETE

1. ALL CONCRETE SHALL BE NORMAL WEIGHT, WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS, (U.N.O.).
2. MINIMUM CEMENT CONTENT SHALL BE 5 SACKS PER CUBIC YARD.
3. TYPE C OR F FLY ASH MAY BE USED UP TO 20% OF TOTAL CEMENT CONTENT BY VOLUME. THIS IS ONLY FOR CONCRETE SPECIFIED IN THESE STRUCTURAL DRAWINGS. REFER TO SPECIFICATIONS BY OTHER DISCIPLINES.
4. MAXIMUM SLUMP SHALL BE 5 IN., U.N.O.
5. MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE'S "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 301.
6. CONCRETE MIX SHALL NOT USE ANY ADMIXTURES WHICH CONTAIN CALCIUM CHLORIDE.
7. CONCRETE TEST REPORTS SHALL BE MADE AVAILABLE AT THE JOB SITE. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN PER SPECIFICATIONS PRIOR TO PLACEMENT CONCRETE.

REINFORCING STEEL

1. BARS SHALL BE ASTM A615, GRADE 60.
2. DETAIL, FABRICATE, AND PLACE IN CONFORMANCE WITH ACI 315 AND 318.
3. LAP ALL REINFORCING STEEL 40 BAR DIAMETERS (U.N.O.).
4. LAP CONTINUOUS BARS IN GRADE BEAMS 40 BAR DIAMETERS (U.N.O. ON DRAWINGS). TOP BARS TO BE SPLICED BETWEEN SUPPORTS AND BOTTOM BARS TO BE SPLICED AT SUPPORTS, AS APPLICABLE.
5. PROVIDE ACCESSORIES FOR SUPPORT OF ALL REINFORCING.
6. SUBMIT SHOP DRAWINGS SHOWING ALL REINFORCING FOR APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.
7. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

	MINIMUM COVER, IN.
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
B. CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THROUGH #18 BAR	2
#5 BAR, W31 OR D31 WIRE, AND SMALLER	1½
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS, WALLS, JOISTS:	
#14 AND #18 BARS	1½
#11 BAR AND SMALLER	¾
BEAMS, COLUMNS:	
PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS	1½

CONCRETE MASONRY UNITS

1. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, TYPE 1, WITH COMPRESSIVE STRENGTH (f'm) OF 1,500 PSI
2. GROUT FOR CONCRETE MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI
3. MORTAR SHALL BE TYPE N, U.N.O.
4. REINFORCING IN MASONRY WALLS SHALL BE GRADE 60, ASTM A615.
5. TYPICAL REINFORCING:
   VERTICAL - REF. PLAN FOR SIZE AND SPACING
   HORIZONTAL - #9 WIRE IN DUR-O-WALL (LADUR TRUSS TYPE) OR APPROVED EQUAL AT 16" O.C. IN MASONRY WALLS, EXCEPT AT 8" O.C. FOR WALL BELOW GRADE OR STACK BOND WALLS (U.N.O. ON DRAWINGS).
6. MATERIALS AND WORKMANSHIP SHALL CONFORM TO DESIGN REQUIREMENTS BASED UPON THE AMERICAN CONCRETE INSTITUTES "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", ACI 530.

POST-INSTALLED ANCHORS

1. EXCEPT WHERE INDICATED ON THE DRAWINGS, THE FOLLOWING HILTI OR SIMPSON PRODUCTS MAY BE USED. CONTACT HILTI AT (800) 879-8000 OR SIMPSON AT WWW.STRONGTIE.COM FOR PRODUCT RELATED QUESTIONS.
   A. ANCHORAGE TO CONCRETE
      a. ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
         (1) HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HIT-Z ROD OR HAS -E THREADED ROD PER ICC-ES ESR-3187.
         (2) SIMPSON SET-3G SYSTEM WITH F1554 THREADED ROD PER ICC-ES ESR-4057
      b. MEDIUM DUTY MECHANICAL ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
         (1) HILTI KWIK HUS EZ AND KWIK HUS EZ-I SCREW ANCHORS PER ICC-ES ESR-3027
         (2) SIMPSON TITEN HD SCREW ANCHORS PER ICC-ES ESR-2713
         (3) SIMPSON TITEN HD STAINLESS STEEL SCREW ANCHOR PER IAMPO UES ER-493
2. ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.
3. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
4. CONTRACTOR SHALL USE THE NECESSARY MEANS, AS REQUIRED BY OSHA, TO PROTECT FROM DUST DURING DRILLING OPERATIONS.
5. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS. THREADED ROD AND REBAR DIAMETERS AND EMBEDMENT LENGTHS SHALL BE AS NOTED ON DRAWINGS.
6. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING PRODUCTS WHICH HAVE SPECIFIC APPLICATIONS THAT ARE INTENDED FOR OVERHEAD USE.
7. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
8. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
9. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY FERROSCAN, GPR, X-RAY, CHIPPING OR OTHER MEANS.

LIGHT GAGE METAL FRAMING

1. STEEL STUD SIZES SHALL BE AS NOTED ON THE DRAWINGS, CONFORMING TO SSMA STANDARDS.
2. FABRICATE AND ERECT AS SPECIFIED. MANUFACTURER SHALL SUPPLY ALL CLIPS, FASTENERS, TEMPORARY BRACING, ACCESSORIES, STANDARD BRIDGING, ETC.
3. ALL STEEL STUDS SHALL HAVE A MINIMUM 1⅜" FLANGE WITH A ½" RETURN (U.N.O.).
4. ALL STUDS 18 GAGE AND THINNER SHALL HAVE A MINIMUM YIELD STRENGTH, Fy, OF 33 KSI AND TENSILE STRENGTH, Fu, OF 45 KSI. ALL STUDS 16 GAGE AND THICKER SHALL HAVE A MINIMUM STRENGTH OF 50 KSI AND TENSILE STRENGTH OF 65 KSI (U.N.O.).
5. TRACK SECTIONS SHALL BE EQUAL GRADE AND GAGE THICKNESS OF STUDS BEING USED. TYPICAL, U.N.O.
6. ALL FASTENERS SHALL BE SELF-TAPPING NO. 12-14 GAGE SCREWS, OR WELD IN ACCORDANCE WITH SECTION 6.0 OF THE AMERICAN WELDING SOCIETY'S "STRUCTURAL WELDING CODE - SHEET METAL" (AWS D1.3) AS SHOWN ON DRAWINGS.

STRUCTURAL WOOD

1. WOOD FRAMING SHALL COMPLY WITH THE SOUTHERN PINE INSPECTION BUREAU, OR SHALL CONFORM TO SPECIFICATIONS AS PUBLISHED BY THE WESTERN WOODS PRODUCTS ASSOCIATION.
2. WOOD FRAMING 2 INCHES X 4 INCHES AND LARGER SHALL BE NO. 2 SOUTHERN PINE, NO. 2 DOUGLAS FIR LARCH, OR EQUIVALENT (U.N.O.).
3. WOOD COLUMNS 6 INCHES X 6 INCHES AND LARGER SHALL BE NO. 1 SOUTHERN PINE, NO. 1 DOUGLAS FIR LARCH, OR EQUIVALENT.
4. ALL EXPOSED WOOD FRAMING, UNLESS NOTED OTHERWISE, SHALL BE "SELECT" GRADE LUMBER.
5. ALL PLATES IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED (USE CATEGORY 2 AS SPECIFIED BY AWPA) FOR MOISTURE PROTECTION. ALL WOOD EXPOSED TO WEATHER SHALL BE PRESSURE TREATED (USE CATEGORY 3B AS SPECIFIED BY AWPA) OR WESTERN RED CEDAR.
6. ENGINEERED WOOD PRODUCTS
   A. SIZES AND DESIGNATIONS ARE BASED ON PUBLISHED REDBUILT MEMBERS AS MANUFACTURED BY REDBUILT (FORMERLY THE COMMERCIAL DIVISION OF TRUS JOIST).
   B. OTHER WOOD MEMBERS WILL BE PERMITTED WHERE LOAD CAPACITIES ARE EQUIVALENT AND SUBSTANTIATED BY PUBLISHED LOAD TABLES.
   C. FABRICATOR SHALL SUBMIT SHOP DRAWINGS SHOWING LAYOUT OF MEMBERS, BRIDGING, BRACING, ERECTION DETAILS, TRUSS PENETRATIONS, AND DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER (TEXAS).
   D. FOR QUOTATIONS, SHOP DRAWINGS, AND MATERIAL ORDERS, CALL REDBUILT'S NATIONAL ACCOUNT SERVICE CENTER (WWW.REDBUILT.COM) AT 1-866-859-6757 AND ASK FOR THE ACCOUNT COORDINATOR FOR THIS PROJECT.
7. METAL-PLATE-CONNECTED WOOD TRUSSES
   A. TRUSS FABRICATION AND INSTALLATION SHALL COMPLY WITH THE FOLLOWING STANDARDS:
      a. ANSI / TPI 1- 2014- NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION
      b. BCSI-B1: GUIDE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF TRUSSES
      c. BCSI-B2: TRUSS INSTALLATION & TEMPORARY RESTRAINT/ BRACING
      d. BCSI-B3: PERMANT RESTRAINT/BRACING OF CHORDS & WEB MEMBERS
   B. TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS
      a. TOP CHORD: DEAD LOAD = 10 PSF; LIVE LOAD = 20 PSF
      b. BOTTOM CHORD: DEAD LOAD = 10 PSF; LIVE LOAD = 0 PSF; NON-CONCURRENT LIVE LOAD = 10 PSF
      c. ADDITIONAL MECHANICAL LOADS SHALL BE APPLIED TO THEIR RESPECTIVE CHORD MEMBER AS NOTED ON THE FLOOR/ROOF PLAN
      d. SNOW DRIFT LOADS AND UNBALANCED ROOF SNOW LOADS AS INDICATED (WHERE APPLICABLE)
      e. REQUIRED UPLIFT FOR COMPONENTS AND CLADDING LOADS AS INDICATED IN THE DESIGN LOADS SECTION OF THESE STRUCTURAL NOTES
      f. ALLOWABLE VERTICAL DEFLECTION LIMITS: DEAD + LIVE: L/180; LIVE: L/240
      g. TRUSS CAMBER: TO BE PROVIDED BY THE TRUSS DESIGNER AS REQUIRED TO MEET SERVICEABILITY LIMITS UNLESS SPECIFICALLY NOTED BY THE BUILDING DESIGNER
   C. ALL TRUSS-TO-TRUSS CONNECTORS SHALL BE SPECIFIED BY THE TRUSS DESIGNER. TRUSS-TO-STRUCTURAL ELEMENT CONNECTIONS SHALL BE SPECIFIED BY THE BUILDING DESIGNER, UNLESS SPECIFICALLY NOTED.
   D. PERMANENT MEMBER RESTRAINT/ BRACING OF TRUSS SYSTEM SHALL BE SPECIFIED BY THE TRUSS DESIGNER. TRUSS DESIGNER IS PERMITTED TO SUBSTITUTE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT WITH REINFORCEMENT DESIGNED TO PREVENT BUCKLING. IF SPECIFIC TRUSS MEMBER PERMANENT RESTRAINT DESIGN IS NOT PROVIDED, THE METHOD OF PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT AND DIAGONAL BRACING FOR THE TRUSS TOP CHORD, BOTTOM CHORD, AND WEB MEMBERS SHALL BE IN ACCORDANCE WITH BCSI-B3 OR BCSI-B7
   E. A "TRUSS SUBMITTAL PACKAGE" AS DEFINED BY ANSI/ TPI-1, SHALL BE SUBMITTED TO THE BUILDING DESIGNER FOR REVIEW FOR COMPATIBILITY WITH THE BUILDING DESIGN. THE TRUSS SUBMITTAL PACKAGE SHALL INCLUDE; INDIVIDUAL TRUSS DESIGN DRAWINGS, THE TRUSS PLACEMENT DIAGRAM (INCLUDING TRUSS BRIDGING LAYOUT), THE COVER/TRUSS INDEX SHEET, LATERAL RESTRAINT AND DIAGONAL BRACING DETAILS DESIGNED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICE, APPLICABLE BCSI-DEFINED LATERAL RESTRAINT AND DIAGONAL BRACING DETAILS AND ANY OTHER STRUCTURAL DETAILS GERMANE TO THE TRUSSES. EACH INDIVIDUAL TRUSS DESIGN DRAWING, OR COVER/TRUSS IN SHEET IF USED, SHALL BEAR THE SEAL AND SIGNATURE OF THE TRUSS DESIGNER REGISTERED IN THE PROJECT STATE.
   F. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE "REQUIREMENTS OF THE CONTRACTOR" AS DEFINED BY ANSI/TPI 1.
8. ROOF DECK
   A. ALL ROOF DECK SHALL BE APA RATED GRADE PLYWOOD OR OSB (ORIENTED STRAND BOARD). GRADES MAY HAVE EITHER AN EXTERIOR OR EXPOSURE I DESIGNATION (U.N.O.).
   B. ROOF SHEATHING SHALL BE $^{23}/_{32}$ INCH THICK MINIMUM (48/24) U.N.O.
   C. STAGGER ENDS OF SHEETS.
   D. PROVIDE BLOCKING AT EDGES OF ALL ROOF SHEETS. PLYWOOD CLIPS MAY BE USED AT ROOF INSTEAD OF BLOCKING, UNLESS BLOCKING REQUIRED FOR NAILING.
   E. NAIL EDGES OF ROOF SHEETS AT 6 IN. O.C. MAXIMUM (U.N.O.).
   F. NAIL FACES OF ROOF SHEETS AT 12 IN. O.C. MAXIMUM.
   G. USE MINIMUM 10d COMMON NAILS (U.N.O.).
9. WALL SHEATHING
   A. ALL WALL SHEATHING SHALL BE APA RATED GRADE PLYWOOD OR OSB (ORIENTED STRAND BOARD). GRADES MAY HAVE EITHER AN EXTERIOR OR EXPOSURE I DESIGNATION (U.N.O.).
   B. WALL SHEATHING SHALL BE $^{15}/_{32}$ INCH THICK MINIMUM (32/16) U.N.O.
   C. STAGGER ENDS OF SHEETS.
   D. PROVIDE BLOCKING AT EDGES OF ALL SHEARWALL SHEETS.
   E. NAIL EDGES OF SHEARWALL SHEETS PER SCHEDULE ON PLAN (OTHER WALLS AT 6 IN. O.C. MAXIMUM).
   F. NAIL FACES OF WALL SHEETS AT 12 IN. O.C. MAXIMUM.
   G. USE MINIMUM 10d COMMON NAILS (U.N.O.).
10. CONNECTORS SHALL BE AS MANUFACTURED BY THE SIMPSON CO. OR APPROVED EQUAL. CONNECTORS USED WITH PRESSURE TREATED LUMBER OR IN UNCONDITIONED SPACE, SHALL HAVE THE ZMAX (6185) COATING. ALL NAILS USED FOR CONNECTORS SHALL MATCH THOSE SPECIFIED BY THE SUPPLIER'S PRODUCT CATALOG.
11. NAILING, UNLESS NOTED OTHERWISE, SHALL BE PER THE 2021 INTERNATIONAL BUILDING CODE.
12. ALL REFERENCES TO NAILS ON THE STRUCTURAL DRAWINGS ARE BASED ON COMMON WIRE NAILS (U.N.O.) WITH THE FOLLOWING DIMENSIONS, TYPICAL, U.N.O.
    8d COMMON: 0.131" DIA. X 2½" LONG
    10d COMMON: 0.148" DIA. X 3" LONG
    16d COMMON: 0.162" DIA. X 3½" LONG
    POWER AUTOMATED NAIL GUNS SHALL USE NAILS TO MATCH THE ABOVE NAILS AS SPECIFIED.
13. ALL GLULAM BEAMS SHALL BE SP/SP 24F-V4 OR BETTER.

Statement of Special Inspections

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

- ☒ Soils and Foundations
- ☒ Cast-in-Place Concrete
- ☐ Masonry
- ☐ Structural Steel
- ☒ Wood Construction
- ☒ Special Cases

General Notes

The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

The qualifications of all personnel performing Special Inspections and testing activities are subject to the approval of the Building Official and E.O.R. The credentials of all inspectors and testing technicians shall be provided if requested.

The special inspectors shall keep records of inspections and shall furnish inspection reports to the owner, Engineer of Record (E.O.R.) and Architect of Record (A.O.R.). Field and testing result reports shall be submitted to all designated parties as they are completed. The reports shall indicate that the work performed was done in accordance to the construction drawings. Discrepancies shall be brought to the attention of the general contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the E.O.R. prior to completion of that phase of work. A final report that documents required special inspections and corrections of discrepancies shall be submitted by the General Contractor to the Owner, E.O.R. and A.O.R.

Soils and Foundations

Item	Scope	Monitoring: Periodic (P) Continuous (C)
1. Shallow Foundations	*Inspect soils below footings for adequate bearing capacity and consistency with geotechnical report.* *Inspect removal of unsuitable material and preparation of subgrade prior to placement of controlled fill.*	*P* *C*
2. Controlled Structural Fill	*Perform sieve tests (ASTM D422 & D1140) and modified Proctor tests (ASTM D1557) of each source of fill material.* *Inspect placement, lift thickness and compaction of controlled fill.* *Test density of each lift of fill by nuclear methods (ASTM D2922)* *Verify extent and slope of fill placement.*	*C*

Note:
1. Special Inspection is not required during placement of controlled fill having a total depth of 12 inches or less.

Cast-in-Place Concrete

Item	Scope	Monitoring: Periodic (P) Continuous (C)
1. Mix Design	*Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design. Submit proposed mix design of each class of concrete to Structural Engineer of Record and to inspection and testing firm for review prior to commencement of work.*	*P*
2. Material Certification	*Review for conformance to contract documents. Submit to Structural Engineer of Record for review.*	*P*
3. Anchor Rods	*Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors.*	*C*
4. Concrete Placement	*Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.*	*C*
5. Sampling and Testing of Concrete	*Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064). Three concrete test cylinders will be taken for every 75 or less cubic yards of each class of concrete placed, or concrete placed on any given day. One additional test cylinder will be taken during cold weather concreting, cured on job site under same conditions as concrete represents.*	*C*
6. Curing and Protection	*Inspect curing, cold weather protection and hot weather protection procedures.*	*P*

Note: Special Inspection is not required for flatwork patios, driveways and sidewalks, on grade not shown on structural drawings.

Wood Construction

Item	Scope	Monitoring: Periodic (P) Continuous (C)
1. Fabricator Certification/ Quality Control Procedures ☐ Fabricator Exempt	*Inspect shop fabrication and quality control procedures for wood truss plant.* *Confirm certification of supplier.*	*P*
2. Material Grading	*Inspect grade stamps on structural lumber for compliance with the contract documents.*	*P*
3. Connections	*Verify connection hardware and its installation. Inspect bearing, nails, bolts, hangers or clips, or other devices are tight and otherwise properly installed per the contract documents.*	*C*
4. Framing and Details	*Inspect members for size and placement for conformance to the SER approval submittals and contract document. Review engineered joist shop drawings. Submit to SER for review.*	*P*
5. Diaphragms & Shearwalls	*Inspect thickness and grade of plywood (or OSB), blocking, placement, embedment, size of hold down anchors and the edge and field nailing of the plywood (or OSB) to the framing for conformance to the contract documents.*	*C*
6. Prefabricated Wood Trusses	*Inspect the fabrication of wood trusses. Bottom chord splices are prohibited in the middle third point of the truss.*	*P*
7. Permanent Truss Bracing	*Bridging and bracing installed per the approved truss shop drawings.*	*P*

Special Cases

Item	Scope	Monitoring: Periodic (P) Continuous (C)
Epoxy Anchors in Concrete or CMU	*Review anchors and product being used for conformance to contract documents. Observe installation for compliance to manufacturers specifications. Perform pull test to 125% of allowable design load per manufacturer specifications. (Minimum of 10% of total anchors, to include a minimum of one of each type, size or embedment.)*	*C*

RONALD A. ROBERTS
REGISTERED ENGINEER
AGRICULTURE
NO. 018901
STATE OF TENNESSEE
1-26-2023

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ISSUE DATE:

ISSUE FOR PERMIT	10-20-22
ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

idGROUP

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PANDA EXPRESS

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S-000

STRUCTURAL NOTES AND SPECIAL INSPECTIONS

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-2023

ISSUE FOR BID 01-30-2023

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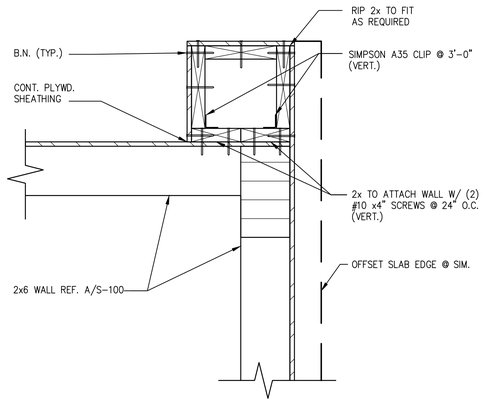


SECTION 2

Scale: 1 1/2"= 1'-0" S-100

PLAN NOTES

1. REF. SHEET S-000 FOR STRUCTURAL NOTES AND SPECIAL INSPECTIONS.
2. REF. 3/S-201 FOR TYPICAL PIPE AND TRENCH DETAIL AS REQUIRED.
3. REF. 4/S-201 FOR TYPICAL SILL PLATE BOLT DETAIL AS REQUIRED.
4. REF. 5/S-201 FOR TYPICAL STEP FOOTING DETAIL AS REQUIRED.
5. REF. 6/S-201 FOR TYPICAL GRADE BEAM STIRRUP DETAIL AS REQUIRED.
6. REF. 7/S-201 FOR TYPICAL REINFORCING BAR DETAIL AS REQUIRED.
7. REF. 8/S-201 FOR TYPICAL CORNER BAR DETAIL AS REQUIRED.
8. REF. 9/S-201 FOR TYPICAL CURB DETAIL AS REQUIRED.
9. REF. 10/S-201 FOR TYPICAL TRENCH DRAIN DETAIL AS REQUIRED.
10. REF. 11/S-201 FOR TYPICAL DRAIN DETAIL AS REQUIRED.
11. REF. 13/S-201 FOR TYPICAL TRASH ENCLOSURE DETAIL AS REQUIRED.
12. REF. 14/S-201 FOR TYPICAL LIGHT POLE BASE DETAIL AS REQUIRED.
13. REF. 17/S-200 FOR TYPICAL NON BEARING WALL CONNECTION AT SLAB AS REQUIRED.
14. REF. 3/S-302 FOR TYPICAL FRAMING NOTCHES DETAIL AS REQUIRED.
15. REF. 4/S-302 FOR TYPICAL WALL FRAMING DETAILS AS REQUIRED.
16. COORDINATE WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS FOR LOCATIONS OF ALL DEPRESSIONS, CURBS, DRAINS, ETC. IN FLOOR SLAB.

SHEARWALL SCHEDULE

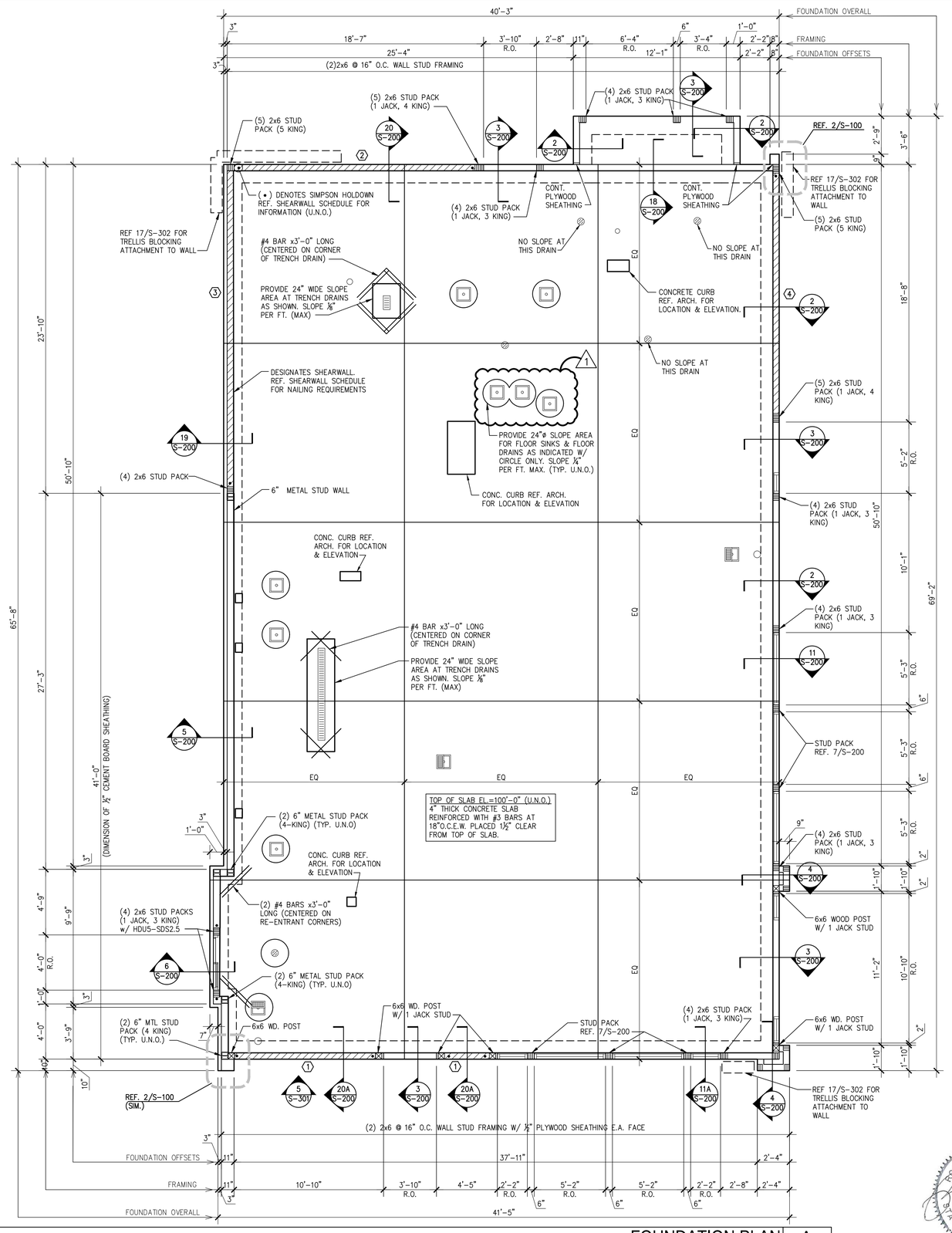
TYPE	NAIL SPACING	HOLDOWN	ANCHOR BOLTS
⟨1⟩	10d @ 3" O.C.E.F.	HDU14-SDS2.5	⅝"ø @ 16" O.C.
⟨2⟩	10d @ 4" O.C.	HDU14-SDS2.5	⅝"ø @ 24" O.C.
⟨3⟩	10d @ 4" O.C.	HDU11-SDS2.5	⅝"ø @ 32" O.C.
⟨4⟩	10d @ 4" O.C.	HDU11-SDS2.5	⅝"ø @ 32" O.C.

⟨X⟩ – DESIGNATES SHEARWALL TYPE

NOTES:
1. USE 10d COMMON NAILS.
2. NAIL PANEL FACES @ 12" O.C.
3. USE 15/32" PLYWOOD.
4. STAGGER PLYWOOD JOINT AND SILL PLATE NAILING.
5. FRAMING MEMBERS OR BLOCKING SHALL BE PROVIDED AT THE EDGES OF ALL SHEETS IN SHEARWALLS.
6. REFER TO 9/S-200 FOR HOLD DOWN ANCHOR EMBEDMENT.
7. HOLD DOWN ANCHORS MUST BE TIED IN PLACE PRIOR TO FOUNDATION INSPECTION.
8. FRAMING AT ADJOINING PANEL EDGES SHALL BE 3 INCH NOMINAL OR THICKER AND NAILS SHALL BE STAGGERED WHERE NAILS ARE SPACED AT 3" O.C. OR ARE ON EACH FACE.

FOUNDATION NOTES 1

Scale: NO SCALE S-100



FOUNDATION PLAN A

Scale: 1/4"=1'-0" S-100

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REVISIONS:

1	OWNER REVISION	01-30-2023

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DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

idGROUP

Ronald Roberts Associates, Inc.
Consulting Engineers
2948 N. Stemmons Freeway
Dallas, Texas 75247-6103
Phone: (214) 637-6299
www.rara.net

PANDA EXPRESS
PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

S-100

FOUNDATION PLAN

PANDA HOME 2600 R4

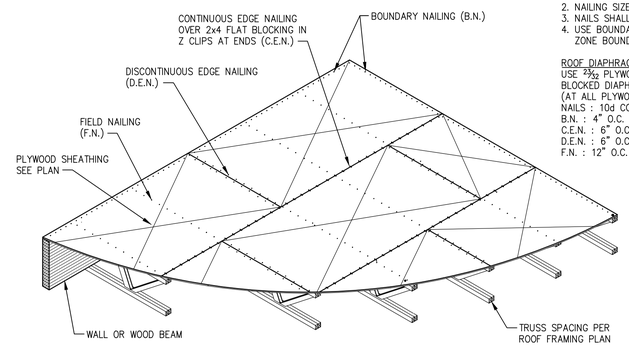
ISSUE FOR BID 01-30-2023

ISSUE FOR BID 01-30-2023

RONALD A. ROBERTS
REGISTERED ENGINEER
No. 019891
STATE OF TENNESSEE
1-24-2023

X:\PROJECT\S22496 Panda Express Clarksville, TN\CAD\DISTRUCT\22496 Issue for Owner Revisions 01.24.2023\22496S-100_Foundation Plan.dwg, 1/24/2023 3:37:34 PM, cnibetts, DWG To PDF.pc3, 1:1

SNOW DRIFT DIAGRAM | 3 | S-101



NOTES:
1. RUN LONG DIMENSION OF PLYWOOD PERPENDICULAR TO TRUSSES.
2. NAILING SIZE AND SPACING AS NOTED BELOW.
3. NAILS SHALL HAVE A MIN. ⅜" EDGE DISTANCE.
4. USE BOUNDARY NAILING CONTINUOUS @ ALL NAILING ZONE BOUNDARIES. SEE PLAN FOR ZONE EXTENTS.

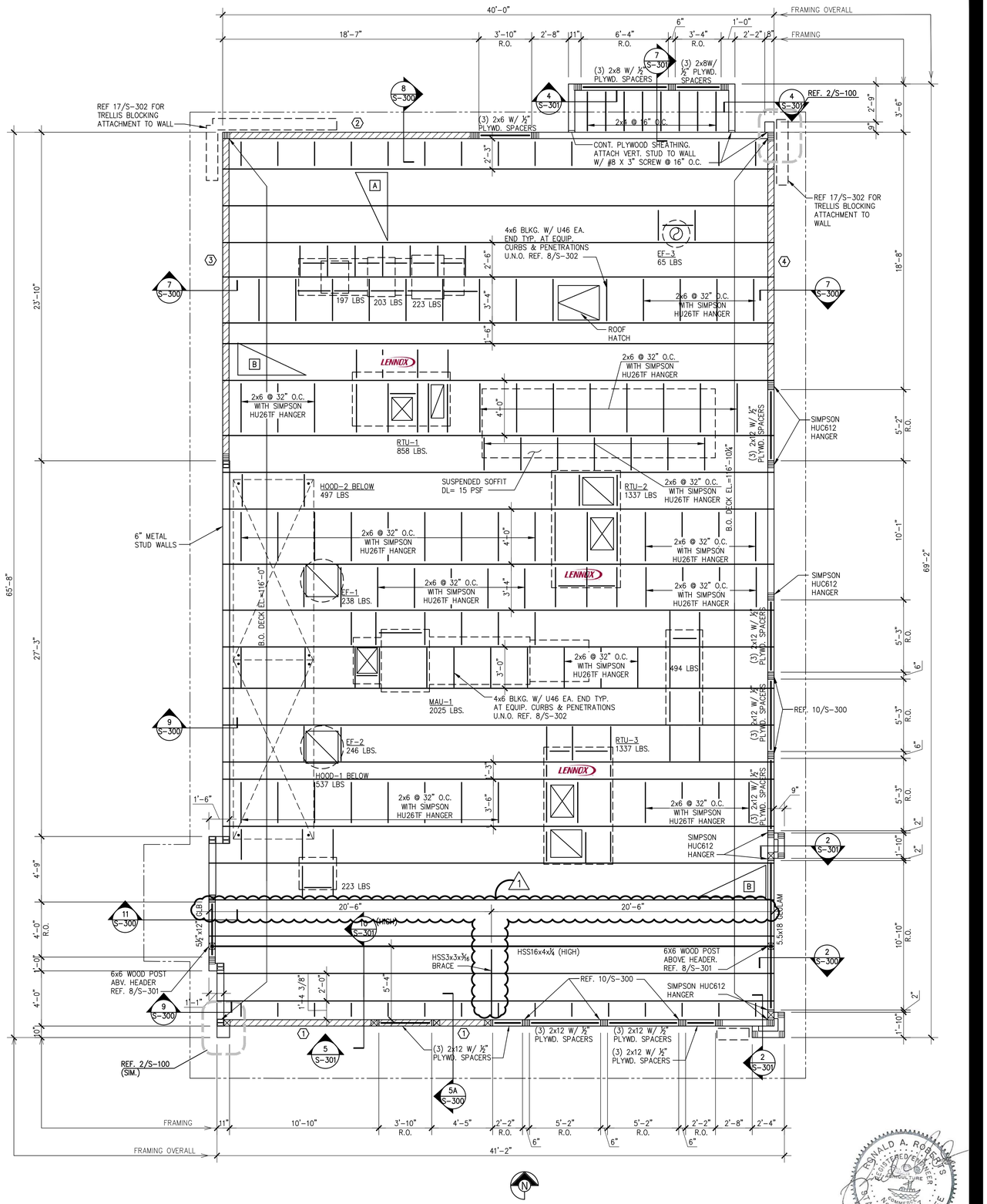
ROOF DIAPHRAGM
USE $^{23}/_{32}$ PLYWOOD, INDEX 48/24
BLOCKED DIAPHRAGM 2x4 FLAT IN Z CLIP
(AT ALL PLYWOOD EDGES, TYP. U.N.O.)
NAILS : 10d COMMON NAILS
B.N. : 4" O.C.
C.E.N. : 6" O.C.
D.E.N. : 6" O.C.
F.N. : 12" O.C.

TYPICAL ROOF DIAPHRAGM DETAIL | 2 | S-101

PLAN NOTES

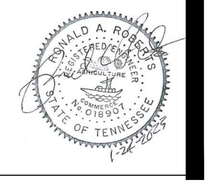
1. REF. SHEET S-000 FOR STRUCTURAL NOTES AND SPECIAL INSPECTIONS.
2. REF. 2/S-302 FOR TYPICAL WOOD HEADER DETAIL AS REQUIRED U.N.O.
3. REF. 6/S-302 FOR TYPICAL BRIDGING AND BRACING DETAIL AS REQUIRED.
4. REF. 7/S-302 FOR TYPICAL SUSPEND THREADED ROD SUPPORT DETAIL AS REQUIRED.
5. REF. 8/S-302 FOR TYPICAL MECHANICAL UNIT SUPPORT DETAIL AS REQUIRED.
6. REF. 9/S-302 FOR TYPICAL PARTITION WALL SUPPORT PERPENDICULAR TO TRUSS DETAIL AS REQUIRED.
7. REF. 10/S-302 FOR TYPICAL PARTITION WALL SUPPORT PARALLEL TO TRUSS DETAIL AS REQUIRED.
8. REF. 11/S-302 & 12/S-302 FOR TYPICAL SOFFIT FRAMING AT SERVICE COUNTER. REFER TO ARCH. FOR LOCATION.
9. REF. 15/S-302 FOR METAL STUD VERTICAL BLOCKING.
10. REF. 1/S-100 FOR SHEARWALL SCHEDULE.

ROOF NOTES | 1 | S-101



ROOF FRAMING PLAN | A | S-101

1/4"=1'-0"



PANDA EXPRESS CHINESE KITCHEN

ISSUE FOR BID 01-30-2023

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
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REVISIONS:

1	OWNER REVISION	01-30-2023

ISSUE DATE:

	ISSUE FOR PERMIT	10-20-22
	ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
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PANDA EXPRESS

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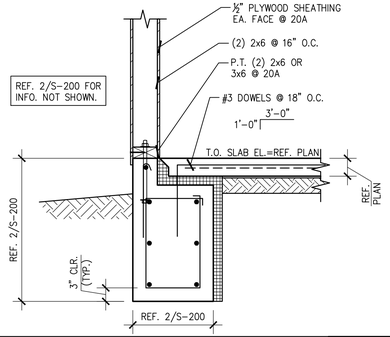
S-101

ROOF FRAMING PLAN
LENNOX

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-2023

X:\PROJECTS\23466 Panda Express Clarksville, TN\CAD\DST\RUCT\23466 Issue for Owner Revisions 01.24.2023\23466-101_Roof Framing Plan.dwg, 1/24/2023 3:37:14 PM, corbetts, DWG To PDF.pc3, 1:1



SECTION 20,20A

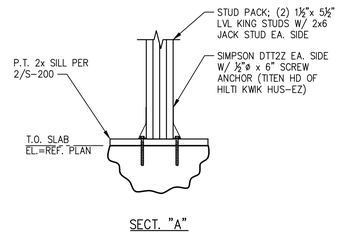
SCALE: ¾"=1'-0" **S-200**

NOT USED 16

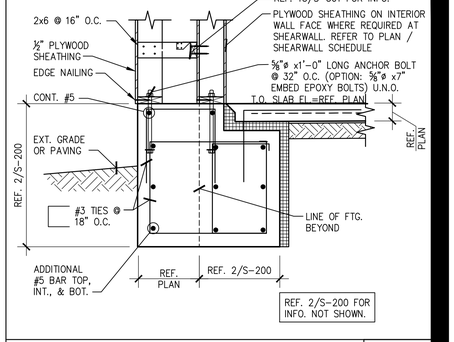
SCALE: ¾"=1'-0" **S-200**

NOT USED 12

SCALE: ¾"=1'-0" **S-200**



REF. 02/S-200 FOR INFO NOT SHOWN



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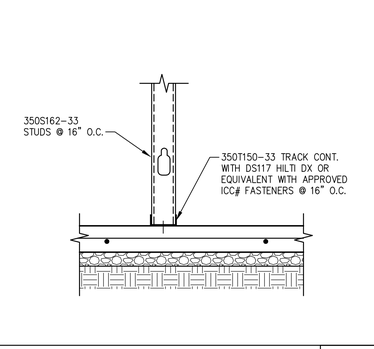

SECTION 19

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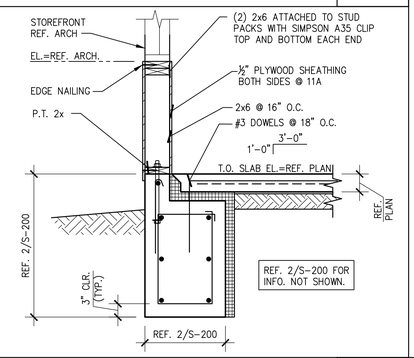
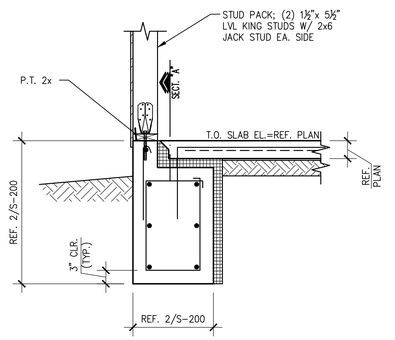
NOT USED 15

SCALE: ¾"=1'-0" **S-200**



11, 11A

SCALE: ¾"=1'-0" **S-200**



SECTION 7

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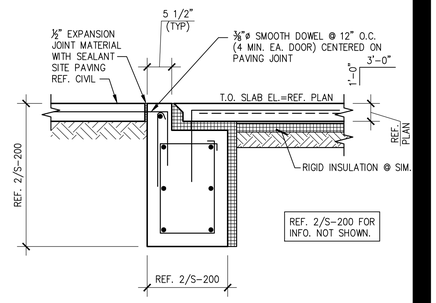
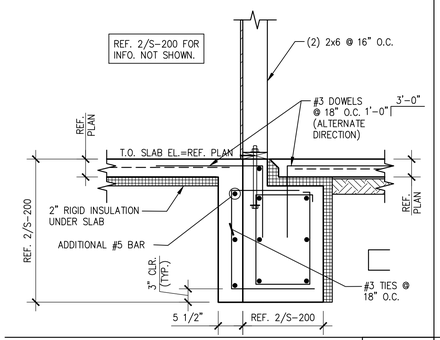


SECTION 3

SCALE: ¾"=1'-0" **S-200**

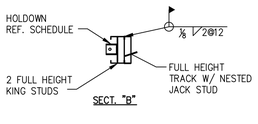


SECTION 18

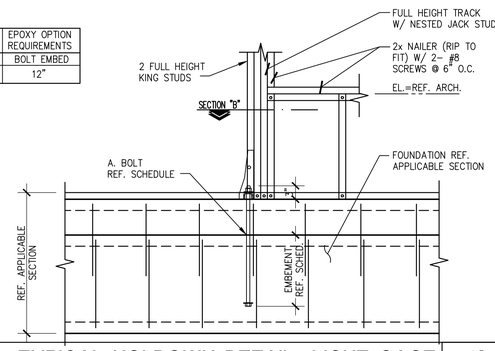
SCALE: ¾"=1'-0" **S-200**

HOLDOWN	SCREW #	CAST IN PLACE REQUIREMENTS ANCH. BOLT	BOLT EMBED	EPOXY OPTION REQUIREMENTS BOLT EMBED
S/HDU4	(6) #14 SCREWS	⅝"ø	1'-0"	12"

NOTE: ADD LENGTH TO BOLTS EXTENDING THROUGH CURBS.

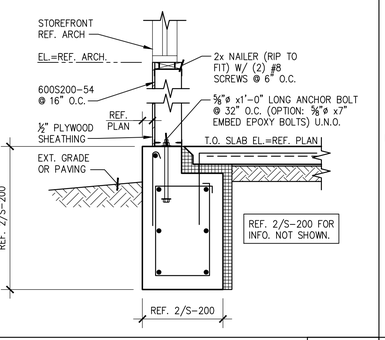


NOTE: EPOXY OPTION IS BASED ON SIMPSON SET-XP DESIGN VALUES. EPOXY SUBSTITUTIONS MUST BE APPROVED BY STRUCTURAL ENGINEER OF RECORD BEFORE PLACEMENT.



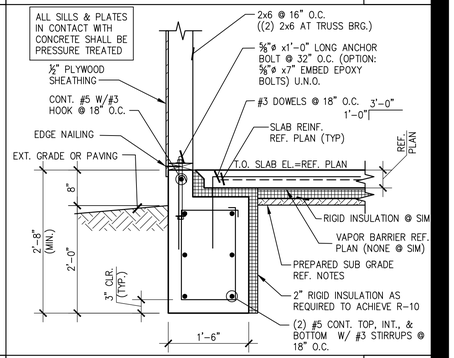
TYPICAL HOLDOWN DETAIL- LIGHT GAGE 10

SCALE: ¾"=1'-0" **S-200**



SECTION 6

SCALE: ¾"=1'-0" **S-200**

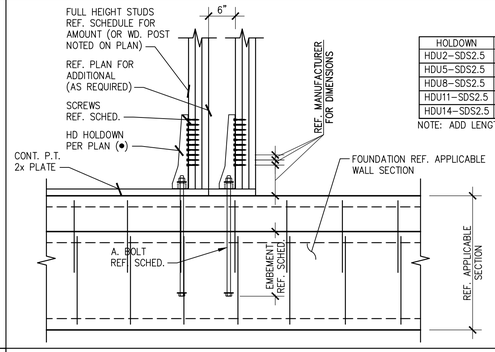


SECTION 2

SCALE: ¾"=1'-0" **S-200**

SLAB AT NON BEARING WALL 17

SCALE: N.T.S. **S-200**



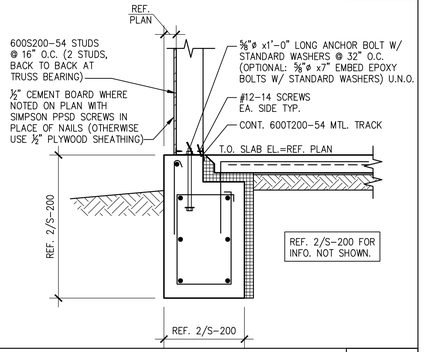
HOLDOWN	STUDS	SCREW #	CAST IN PLACE REQUIREMENTS ANCH. BOLT	BOLT EMBED	EPOXY OPTION REQUIREMENTS BOLT EMBED
HDU2-SDS2.5	3	(6) SDS ¼"x2½"	⅝"ø	1'-0"	10"
HDU5-SDS2.5	3	(14) SDS ¼"x2½"	⅝"ø	1'-0"	12"
HDU8-SDS2.5	3	(20) SDS ¼"x2½"	⅞"ø	1'-0"	12"
HDU11-SDS2.5	6x6	(30) SDS ¼"x2½"	1"ø	1'-0"	16"
HDU14-SDS2.5	6x6	(36) SDS ¼"x2½"	1"ø	1'-0"	16"

NOTE: ADD LENGTH TO BOLTS EXTENDING THROUGH CURBS.

NOTE: EPOXY OPTION IS BASED ON SIMPSON SET-XP DESIGN VALUES. EPOXY SUBSTITUTIONS MUST BE APPROVED BY STRUCTURAL ENGINEER OF RECORD BEFORE PLACEMENT.

TYPICAL HOLDOWN DETAIL- WOOD 9

SCALE: N.T.S. **S-200**



SECTION 5

SCALE: ¾"=1'-0" **S-200**

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REVISIONS:

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PANDA EXPRESS

PANDA HOME 2600
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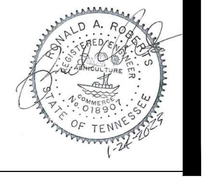

S-200

FOUNDATION DETAILS

ISSUE FOR BID 01-30-2023

PANDA HOME 2600 R4

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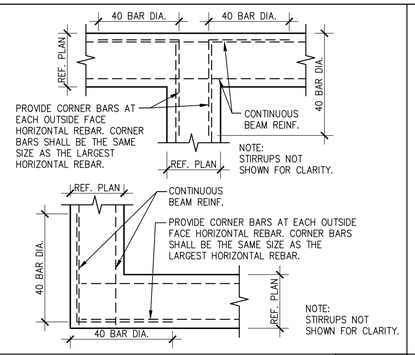
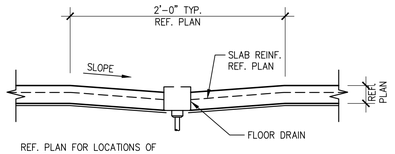
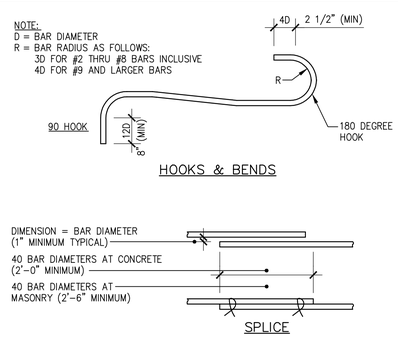
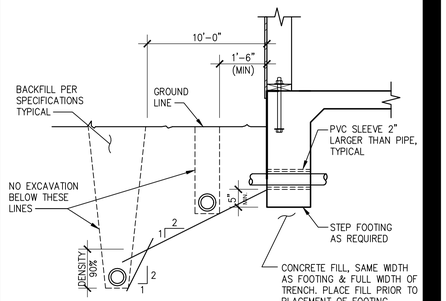
NOT USED	20		NOT USED	16		NOT USED	12		TYPICAL CORNER BAR	8	
	S-201		SCALE: ¾"=1'-0"	S-201		SCALE: ¾"=1'-0"	S-201		SCALE: N.T.S.	S-201	



NOT USED	19		NOT USED	15		TYPICAL FLOOR DRAIN	11		TYPICAL REINFORCING BAR	7	
	S-201			S-201		SCALE: N.T.S.	S-201		SCALE: N.T.S.	S-201	

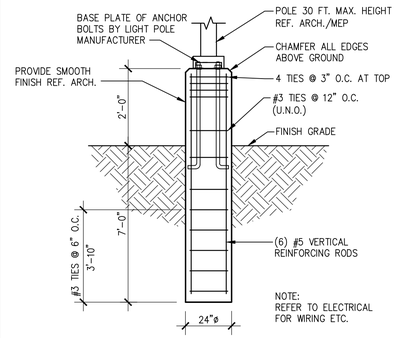


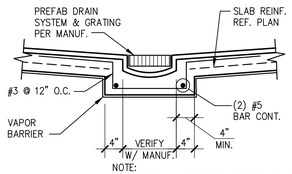


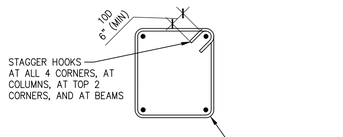


NOTE: FOR PIPES MORE THAN 3'-0" BELOW BOTTOM OF FOOTINGS, TRENCH MAY BE BACKFILLED WITH COMPACTED FILL PER SPECIFICATIONS. DO NOT TRENCH.

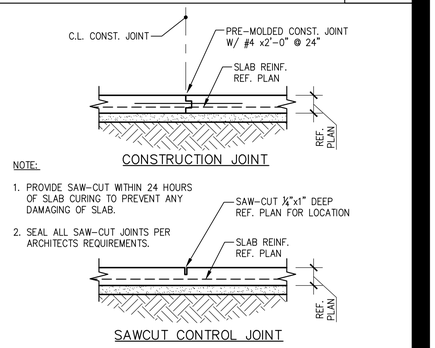
NOT USED	18		TYPICAL LIGHT POLE SECTION	14		TYPICAL TRENCH DRAIN	10		TYPICAL TIES & STIRRUPS	6	
	S-201		SCALE: N.T.S.	S-201		SCALE: ¾"=1'-0"	S-201		SCALE: N.T.S.	S-201	



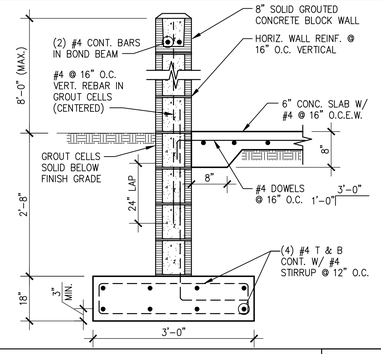


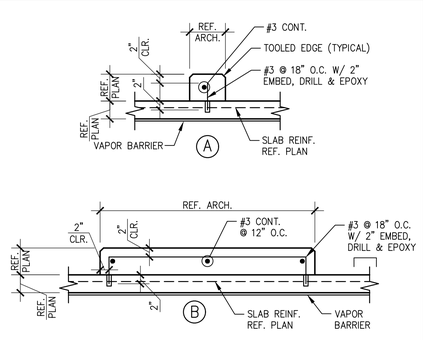


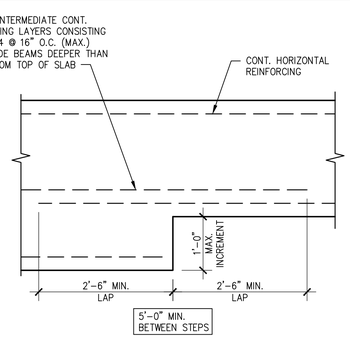
GRADE BEAM STIRRUP



NOT USED	17		TRASH ENCLOSURE WALL	13		TYPICAL CURB	9		TYPICAL STEP FOOTING	5	
	S-201			S-201		SCALE: ¾"=1'-0"	S-201		SCALE: N.T.S.	S-201	







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PANDA EXPRESS

PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

S-201

TYPICAL FOUNDATION DETAILS

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-2023

ISSUE FOR BID 01-30-2023

X:\PROJECTS\22466 Panda Express Clarksville, TN\CADD\STRUCT\22466 Issue for Owner Revisions 01.24.2023\224662-201_Typical Foundation Details.dwg, 1/24/2023 3:36:55 PM, cmbertis, DWG To PDF.pc3, 1:1

NOT USED 17

SCALE: ¾"=1'-0" S-300

NOT USED 16

SCALE: ¾"=1'-0" S-300

NOT USED 15

SCALE: ¾"=1'-0" S-300

NOT USED 14

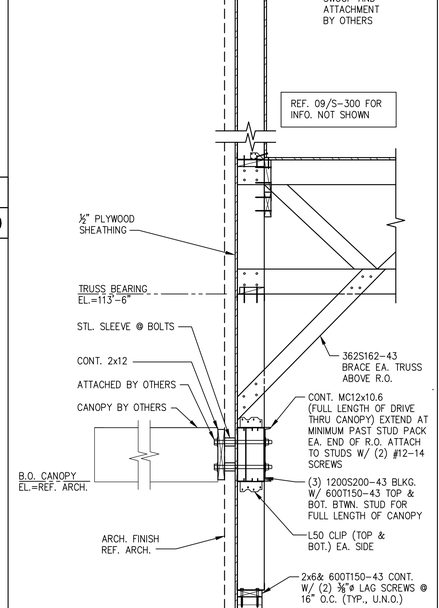
SCALE: ¾"=1'-0" S-300

NOT USED 13

SCALE: ¾"=1'-0" S-300

NOT USED 12

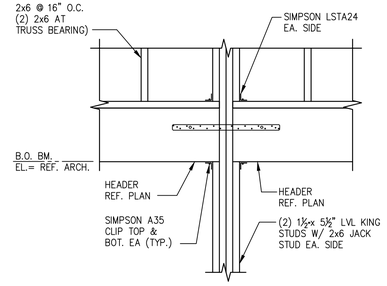
SCALE: ¾"=1'-0" S-300



SECT."B"

SECTION 11

SCALE: ¾"=1'-0" S-300



SECTION 10

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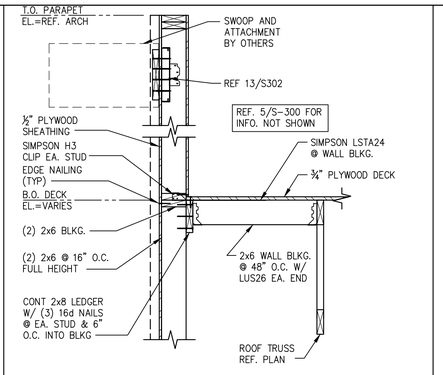

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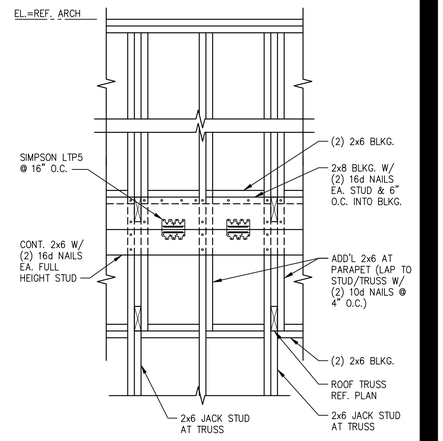

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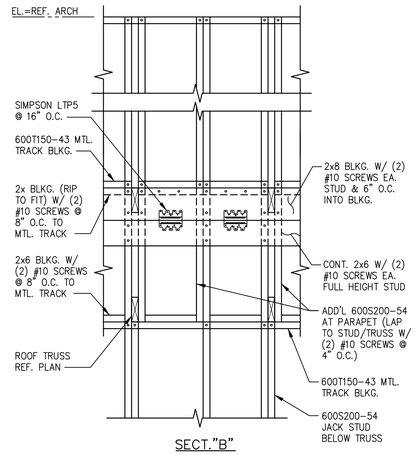

SECT."B"

SECTION 9

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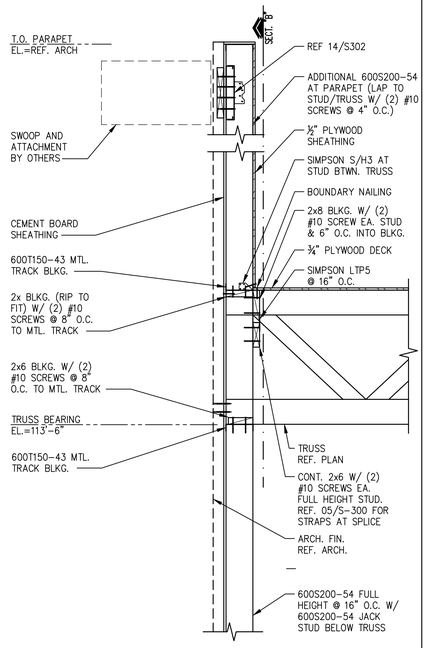

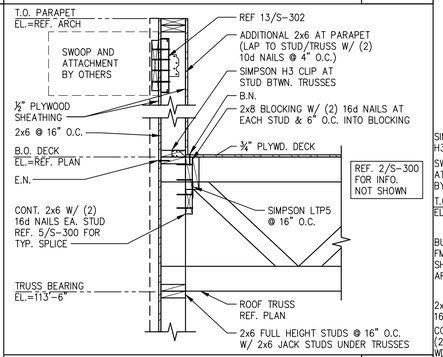

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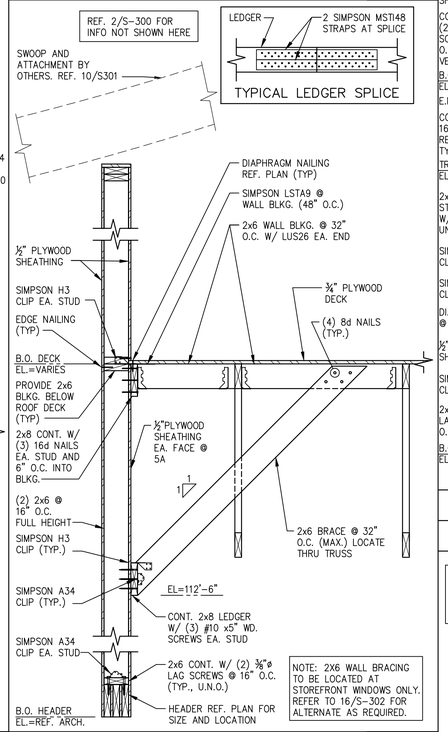

SECTION 5, 5A

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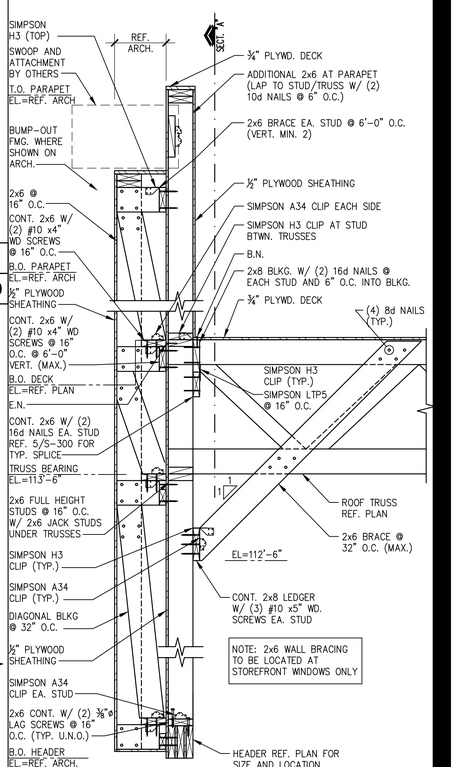
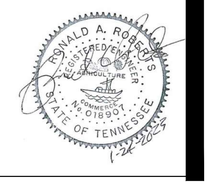


SECTION 2

SCALE: ¾"=1'-0" S-300

NOTE: TYPICAL TO ALL SECTIONS. REFER TO 13, 14, 17/S-301 AWNING BLOCKING REQUIREMENTS AS APPLICABLE. REFER TO PLAN.



NOT USED 14

SCALE: ¾"=1'-0" S-300

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DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

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CLARKSVILLE, TN 37040

S-300

FRAMING SECTIONS

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-2023

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X:\PROJECTS\S2406 Panda Express Clarksville, TN\CAD\SSTRU\CT\2406 Issue for Owner Revisions 01.24.2023\2406S-300_Framing Sections.dwg, 1/24/2023 3:38:46 PM, ccoberts, DWG To PDF.pc3, 1:1

NOT USED 17 | S-301

NOT USED 16 | S-301

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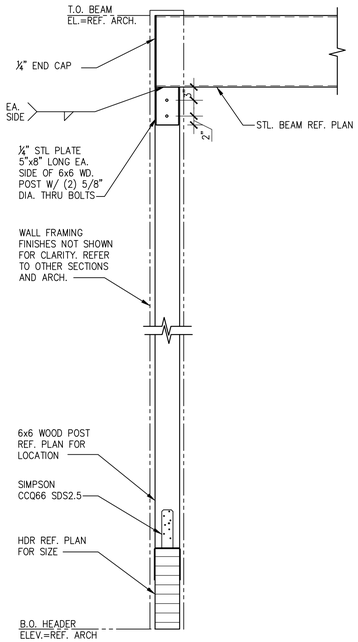
NOT USED 11 | S-301



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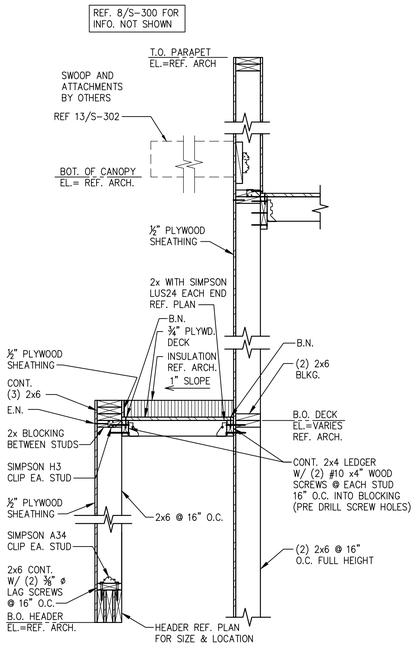

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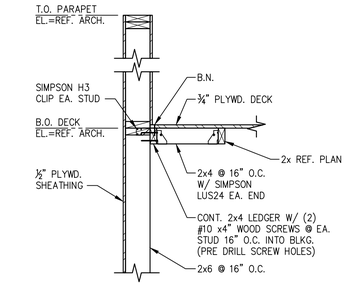

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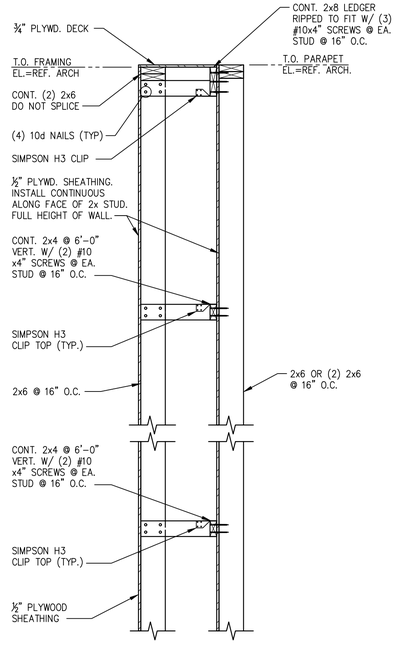

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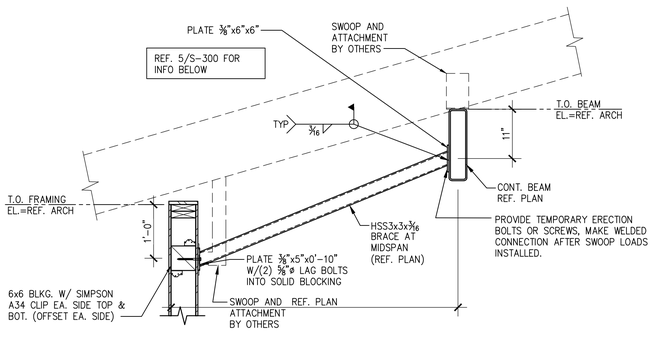
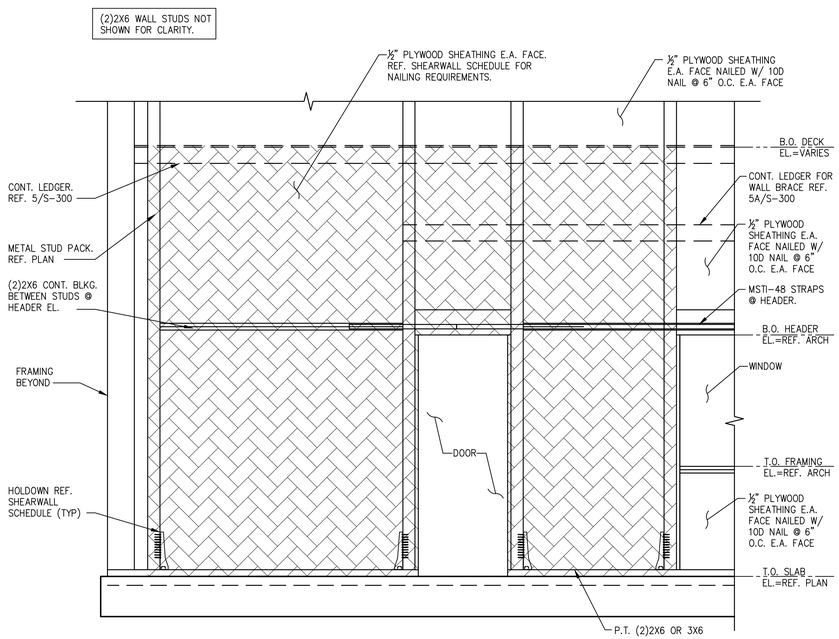


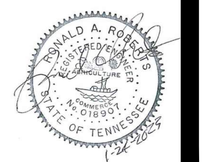
SECTION 10 (1)

SCALE: ¾"=1'-0" | S-301



SHEARWALL 1 ELEVATION 5

SCALE: ¾"=1'-0" | S-301



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S-301

TYPICAL FRAMING DETAILS & SECTIONS

ISSUE FOR BID 01-30-2023

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-2023

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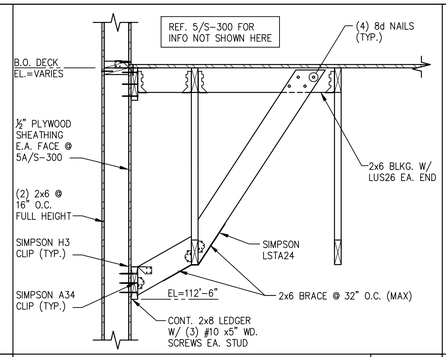

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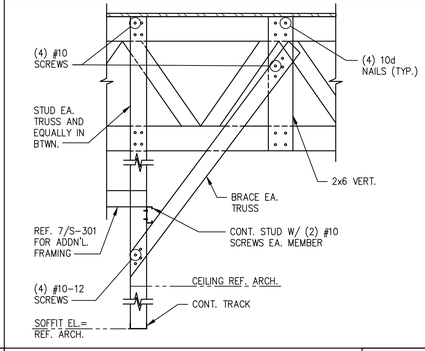
	S-302



SOFFIT DETAIL @ SERV. COUNTER	12
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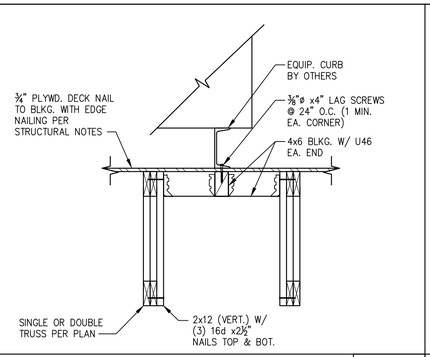

TYP. MECHANICAL SUPPORT UNIT	8
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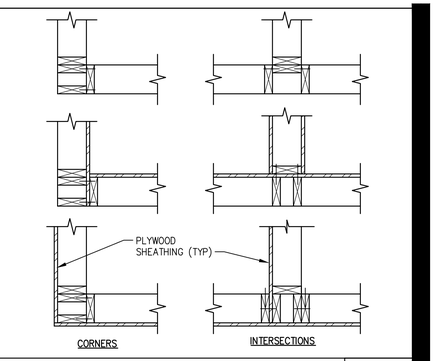

TYPICAL WALL FRAMING	4
SCALE: ¾"=1'-0"	S-302

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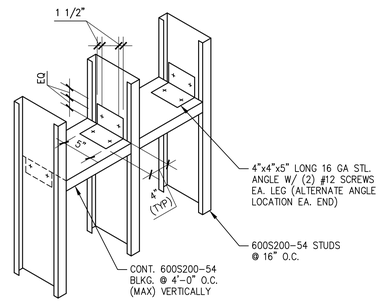
	S-302



TYPICAL METAL STUD VERTICAL BLOCKING	15
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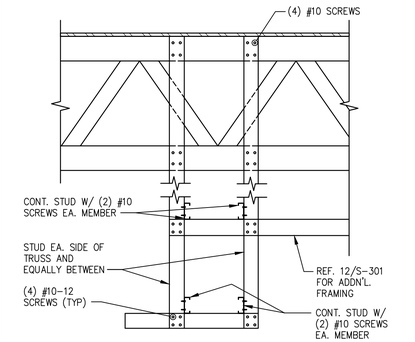

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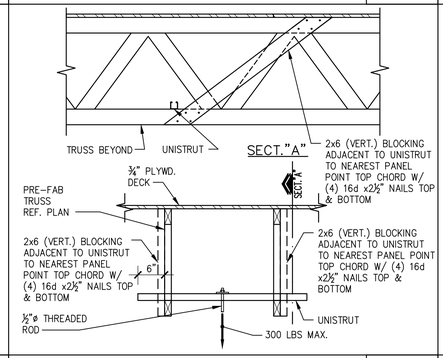

TYPICAL HANGER SUPPORT	7
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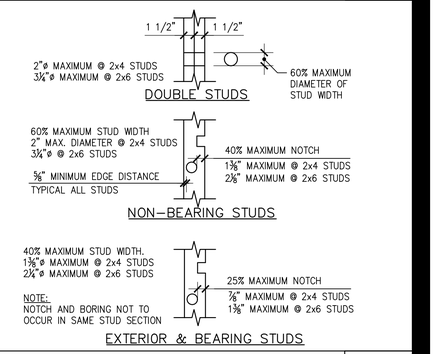

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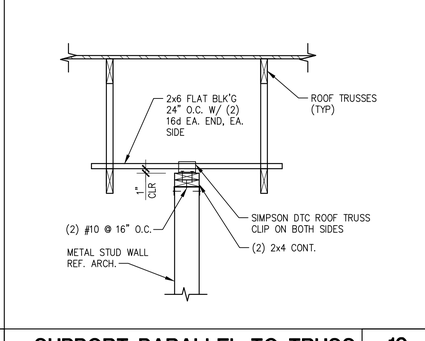
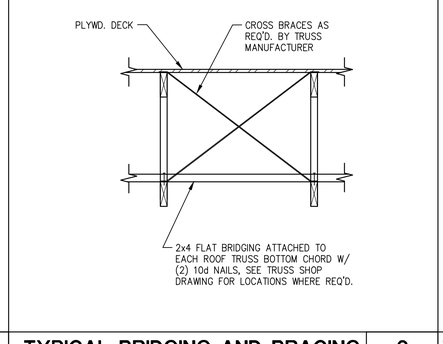
	S-302



SMALL CANOPY BLKG. @ MTL STUD	14
	S-302



SUPPORT PARALLEL TO TRUSS	10
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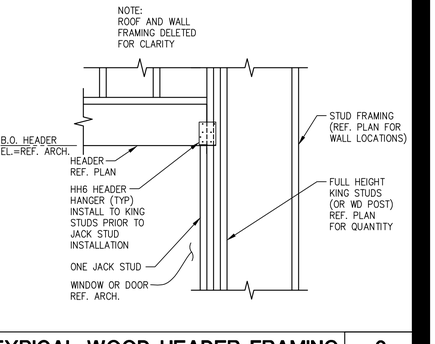
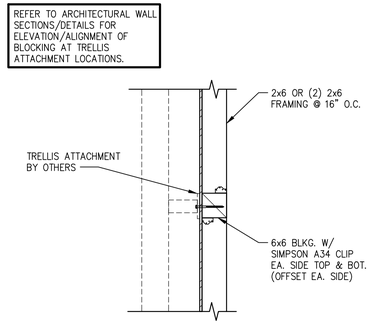


TYPICAL BRIDGING AND BRACING	6
SCALE: ¾"=1'-0"	S-302

TYPICAL WOOD HEADER FRAMING	2
SCALE: ¾"=1'-0"	S-302



TYPICAL TRELLIS BLOCKING	17
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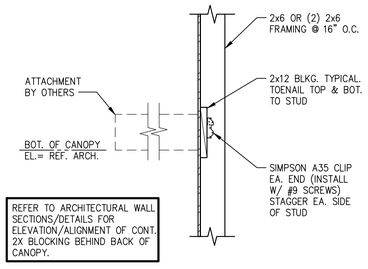
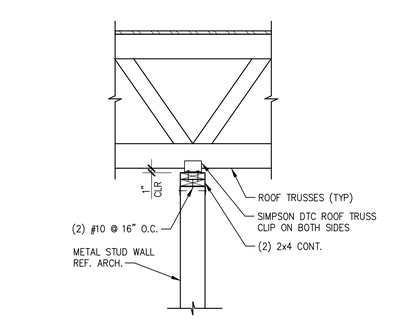


TYPICAL CANOPY BLOCK (U.N.O.)	13
SCALE: ¾"=1'-0"	S-302



SUPPORT PERPENDICULAR TO TRUSS	9
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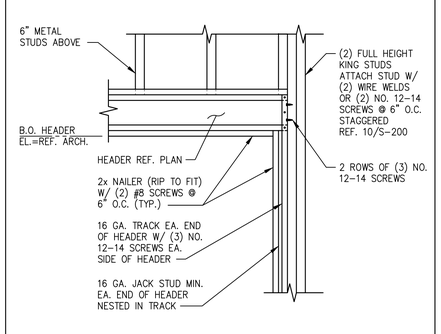
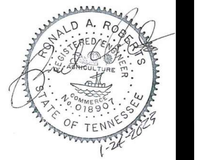


TYP. LIGHT GAGE HDR. FRAMING	5
SCALE: ¾"=1'-0"	S-302



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S-302

TYPICAL FRAMING DETAILS & SECTIONS

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-2023

X:\PROJECTS\23466 Panda Express Clarksville, TN\CADD\STRUCT\23466 Issue for Owner Revisions 01.24.2023\23466-302_Typical Framing Details & Sections.dwg, 1/24/2023 3:36:22 PM, cmberts, DWG To PDF.pc3, 1:1

GENERAL PLUMBING NOTES

A. FOOD SERVICE EQUIPMENT: REFER TO OTHER PORTIONS OF PLANS AND SPECIFICATIONS FOR FURTHER INFORMATION ABOUT FOOD SERVICE ITEMS FURNISHED AND WORK PERFORMED BY OTHERS. VERIFY ROUGH-IN REQUIREMENTS WITH EQUIPMENT FURNISHED.
B. HEALTH DEPARTMENT: COMPLY WITH LOCAL HEALTH DEPARTMENT (HD) REGULATIONS.WHEREVER POSSIBLE, INSTALL ALL PIPING CONCEALED. CONFORM TO HD REQUIREMENTS FOR LOCATIONS OF FLOOR SINKS.
C. WORKMANSHIP SHALL BE FIRST CLASS, ACCEPTABLE TO OWNER.
D. MAKE COMPLETE: PROVIDE ITEMS AND WORK AS REQUIRED TO COMPLETE THE INSTALLATION OF PLUMBING SYSTEMS TO FIXTURES AND EQUIPMENT: TRAPS, STRAINERS, GAUGES, GAS AND WATER PRESSURE REGULATORS, FLEXIBLE CONNECTIONS, STOP VALVES, UNIONS, ETC. PROVIDE AND CONNECT PLUMBING PIPE FROM ROUGH-INS TO ITEMS AS SHOWN, SPECIFIED AND REQUIRED.
E. VERIFY LOCATIONS: EXISTING PIPING, POC SHOWN ON DRAWINGS HAS BEEN LOCATED FROM INFORMATION PROVIDED BY OTHERS. VERIFY EXACT LOCATION ON JOB SITE BEFORE START WORKING.
F. BACKFLOW PREVENTION: PROVIDE BACKFLOW PREVENTERS (BFP) IN WATER LINES ONLY IF REQUIRED BY LOCAL AUTHORITIES. USE DEVICES OF TYPE (VACUUM BREAKER, DOUBLE CHECK, REDUCED PRESSURE) AND MANUFACTURER APPROVED BY LOCAL AUTHORITIES, ONLY IN LOCATIONS REQUIRED.
G. RESTROOM TRAP PRIMERS: SOUIX CHIEF "TRAP EASE" MODEL 200-090 TRAP PRIMER TAILPIECE. PROVIDE A CONTINUOUS LENGTH OF ½" SOFT COPPER TUBE FROM PRIMER TO TRAP, SLOPING TO TRAP. PROVIDE ELASTOMERIC INSULATION ON PIPE INSTALLED BELOW FLOOR SLAB. SEE DETAIL #9 ON SHEET P-500.
H. WATER CONSERVATION: CONTRACTOR SHALL PROVIDE WATER FLOW LIMITING FEATURES ON FIXTURES F/AS REQUIRED BY LOCAL AUTHORITIES.
I. COLD WATER: CONNECT TO DOMESTIC COLD WATER VALVED STUB. EXTEND COLD WATER PIPE, SUSPENDED FROM STRUCTURE ABOVE CEILING AND DOWN IN PARTITIONS, TO SERVE FIXTURES AND EQUIPMENT.
J. HOT WATER: PROVIDE COMMERCIAL TYPE WATER HEATER, DESIGN PER PLAN. RUN HOT WATER PIPE, SUSPENDED FROM STRUCTURE ABOVE CEILING AND DOWN IN PARTITIONS TO SERVE FIXTURE AND EQUIPMENT.
K. SANITARY: CONNECT TO SANITARY WASTE LINE.
L. BRANCHES: PROVIDE HOT AND/OR COLD WATER PIPES DOWN IN PARTITION TO SERVE VARIOUS EQUIPMENT PER "KITCHEN EQUIPMENT SCHEDULE".
M. SODA CONDUIT: PROVIDE 6" CONDUIT BELOW FLOOR FROM SODA STORAGE TO SODA DISPENSER.
N. CONDENSATE: PROVIDE 1" INSULATED PRIMARY AND SECONDARY CONDENSATE DRAIN PIPES FROM FAN-COIL UNIT ABOVE CEILING TO NEAREST FLOOR SINK.
O. GAS SERVICE: PROVIDE ALL PIPES, VALVES AND CONNECTION TO GAS METER. FOR NATURAL GAS SERVICE, COORDINATE WITH GAS UTILITY COMPANY FOR METER REQUIREMENTS, PERMITS AND FEES. ROUTE PIPE AS REQUIRED, SUSPENDED FROM STRUCTURE ABOVE. USE WELDED PIPE, FITTINGS, AND JOINTS IN CEILING SPACE AND IN WALL AS REQUIRED BY LOCAL CODE.
P. INDIRECT DRAIN: AN AIR GAP TWICE THE SIZE OF THE DRAIN LINE MUST BE PROVIDED BETWEEN THE DRAIN LINE AND THE SANITARY SEWER.
Q. LIQUID WASTE FROM ALL EQUIPMENT MUST BE DISCHARGED TO THE SANITARY SEWER.
R. FLOOR DRAIN MUST BE PLACED ADJACENT TO EQUIPMENT WHICH DISCHARGES WASTE. FLOOR DRAIN INSTALLATION MUST NOT INTERFERE WITH PROPER FLOOR MAINTENANCE.
S. EXPOSED UTILITY LINES ON FLOORS ARE PROHIBITED. UTILITY LINES MUST NOT BE UNNECESSARILY EXPOSED ON WALLS.
T. ALL WATER AND GAS CONNECTIONS TO ALL PLUMBING FIXTURES TO BE HARD PIPED. NO FLEX PIPE.
U. ALL PIPES 6" A.F.F. NO FLOOR SUPPORTS ALLOWED.
V. ALL WATER PIPES IN EXPOSED AREAS OUTSIDE WALLS AND BELOW CEILING MUST BE COPPER UNLESS NOTED OTHERWISE.

PLUMBING SPECIFICATIONS

1. WORK INCLUDES CONNECTION OF PLUMBING UTILITIES TO DEVELOPER OR LANDLORD'S UTILITIES AND INSTALLATION OF A COMPLETE PLUMBING SYSTEM WITHIN SPACE. PROVIDE NEW MATERIALS, FITTINGS, ACCESSORIES, FIXTURES AND EQUIPMENT NECESSARY FOR A COMPLETE AND PROPERLY FUNCTIONING SYSTEM AS SHOWN ON PLANS AND AS REQUIRED. WORK INCLUDES FINAL CONNECTIONS TO EQUIPMENT AND FIXTURES PROVIDED BY OTHERS. FURNISH ALL NEW MATERIALS. WORK SHALL BE PERFORMED BY EXPERIENCED TRADESMEN, AND THEIR WORKMANSHIP SHALL BE HIGH STANDARD, ACCEPTABLE TO OWNER.
2. CODES: ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS, OR ORDINANCES. PAY FOR ANY PERMITS REQUIRED, AND CALL FOR ANY REQUIRED INSPECTIONS TO BE MADE BY LOCAL AUTHORITIES.
3. INTENT OF DRAWINGS IS TO INDICATE GENERAL EXTENT OF WORK REQUIRED FOR PROJECT. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING GENERAL LOCATION, TYPE, PIPING, FIXTURES AND EQUIPMENT REQUIRED. PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FULFILL INTENT OF PLANS. DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. USE DIMENSIONED ARCHITECTURAL DRAWINGS. REFER TO MANUFACTURER'S STANDARD ROUGH-IN DRAWINGS FOR PLUMBING FIXTURES, AND TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
4. FSE ROUGH-IN DRAWINGS: REFER TO ROUGH-IN DRAWINGS FURNISHED BY THE FOOD SERVICE EQUIPMENT SUPPLIER, FOR EXACT LOCATION OF WATER PIPING SUPPLIES AND DRAIN LOCATIONS TO SERVE FOOD SERVICE EQUIPMENT. DO NOT LAYOUT WORK OF THIS SECTION WITHOUT SUCH DRAWINGS.
5. COORDINATE WITH WORK OF OTHER SECTIONS AND TRADES, WITH EQUIPMENT FURNISHED BY OTHERS, AND WITH CONSTRAINTS OF EXISTING CONDITIONS OF PROJECT SITE.
6. MISCELLANEOUS EXPENSES SUCH AS HOOK-UP CHARGES, PERMITS, INSPECTIONS, AND OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING SYSTEM ARE INCLUDED AS PART OF THIS SECTION.
7. PIPING SYSTEMS, GENERAL: ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK INCLUDING DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING, PROVIDE AN ISOLATING DIELECTRIC UNION. SEAL PIPE PENETRATIONS OF FIRE FLOORS AND FIREWALLS WITH FIREPROOF PUTTY OR GROUT. PROVIDE SLIMNER OR EQUIVALENT PIPE HANGING SYSTEM IN CHASES. PROVIDE HANGERS AS RECOMMENDED BY HANGER MANUFACTURER AND MSS-SP-58, 69 AND 89.
8. WASTE PIPING: PROVIDE ALL DRAIN, WASTE AND SEWER PIPING WITHIN PROJECT SPACE WITH CONNECTION TO SANITARY WASTE SYSTEM ON SITE. PROVIDE A COMPLETE SYSTEM OF WASTE PIPING, CONSISTING OF SCH 40 PVC PIPE, CONNECTORS AND FITTINGS ALL PIPING SHALL BE SLOPED UNIFORMALY AT 2% UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS.
   8.1. CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT APART.
   8.2. CLEANOUTS SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A SINGLE PIPE RUN, ONLY ONE (1) CLEANOUT SHALL BE REQUIRED FOR EVERY 40 FEET OF DEVELOPED LENGTH
9. VENTS: PROVIDE A COMPLETE SYSTEM OF VENT PIPING, CONSISTING OF SCH 40 PVC PIPE, CONNECTORS AND FITTINGS. COMBINE THE VENT RISERS IN THE CEILING SPACE. CONNECT TO EXISTING VENT MAIN.
10. WATER PIPING: CONNECT TO EXISTING WATER PIPING AND PROVIDE A NEW DOMESTIC HOT AND COLD WATER PIPING SYSTEM INSIDE THE BUILDING AS SHOWN ON DRAWINGS. LAY OUT WATER PIPING SO THAT ENTIRE SYSTEM CAN BE DRAINED. HOT AND COLD WATER PIPING SHALL BE ZURN PEX (ASTM F877, SDR 9 TUBING) WITH ZURN PEX PRE-ASSEMBLED MANIFOLDS. FITTINGS AND JOINTS FOR PEX-A TUBE: ASTM F1960 COMPATIBLE COLD EXPANSION FITTINGS, MATCHING PEX TUBE DIMENSIONS. USE BLUE COLOR PEX FOR COLD WATER AND RED COLOR PEX FOR HOT WATER. PEX PIPING SHALL BE CONTINUOUS FROM MANIFOLD CONNECTION TO COPPER STUB-OUT AT EACH FIXTURE. PEX PIPING SHALL NOT BE SPLICED WITHIN WALLS. FLUSH WATER PIPING CLEAR OF DEBRIS AND CLEAN AERATORS AND STRAINERS AT TERMINATION OF INSTALLATION.
11. NATURAL GAS PIPING: INSIDE AND OUTSIDE THE BUILDING ABOVE GRADE SHALL BE SCHEDULE 40 BLACK STEEL, ASTM A-53 PIPE WITH 125 LB MALLEABLE IRON SCREWED FITTINGS WHERE EXPOSED. PRIMER AND PAINT EXTERIOR GAS PIPING YELLOW TO PREVENT RUST. PROVIDE ALL UNIONS, SHUT OFF VALVES AND DRIP LEGS REQUIRED BY NFPA-54 AND GOVERNING CODES. PROVIDE ALL TESTS, INSPECTIONS, HANGERS AND APPURTENANCES REQUIRED FOR A COMPLETE OPERATING SYSTEM. TAP ON UTILITY GAS MAIN AND GAS METER SHALL BE BY GAS COMPANY. EXTEND PIPING FROM METER TO EQUIPMENT AS DETAILED ON DRAWINGS. PROVIDE ROUTING, HANGING, AND PENETRATIONS PER OWNER'S REQUIREMENTS.
12. PIPE INSULATION: INSULATE ALL COLD WATER AND CONDENSATE PIPING WITH ½", AND HOT WATER PIPING WITH 1", PREFORMED FIBERGLASS WITH ALL-SERVICE JACKET WITH VAPOR BARRIER (BY CT, OC, JM, PPG, OR KNAUF). AT CONTRACTOR'S OPTION, PLENUM-RATED ELASTOMERIC INSULATION (BY ARMSTRONG, RUBATEX OR EQUAL) MAY BE USED.
13. PIPE MARKING:
   13.1. IDENTIFY ALL PIPING WITH ANSI/ASME A13.1 2007 APPROVED PIPE MARKER SYSTEM USING EZ ARROWS AND ARROW BANDING TAPE IN CONJUNCTION WITH EZ PIPE MARKERS. PRODUCTS AVAILABLE AT PIPEMARKER.COM, 822-274-6271. INSTALL PER MANUFACTURERS INSTRUCTIONS.
   13.2. IDENTIFY ALL MANIFOLDS AND ALL VALVES ON THE MANIFOLDS FOR CORRESPONDING FIXTURES.
14. SHUT-OFF VALVES WITH UNIONS SHALL BE PROVIDED AT BRANCHES TO GROUPS OF MORE THAN TWO FIXTURES, AND AT THE WATER HEATER, TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. USE CHROME-FINISHED FORGED BRONZE BODY BALL VALVE, WITH TEFLON SEATS AND PACKING, 400 LB WOG, WITH SOLDER ENDS, EQUAL TO JENKINS #802-T. GAS VALVES SHALL BE ALL BRONZE LUBRICATED PLUG COCKS FOR SCREWED PIPE, BY WALWORTH, ROCKWELL, NORDSTROM OR APPROVED EQUIVALENT.
15. ACCESS PANELS SHALL BE PROVIDED IN CEILINGS OR WALLS WHERE CONCEALED CONTROL DEVICES ARE LOCATED, EXCEPT WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN CEILINGS.
16. SUPPLIES AND TRAPS: PROVIDE WATER SEALED TRAPS AND SUPPLIES INSTALLED AS CLOSE AS POSSIBLE TO ALL PLUMBING FIXTURES, DRAINS, AND FOOD SERVICE EQUIPMENT OR BEVERAGE DISPENSING EQUIPMENT ITEMS FURNISHED BY OTHERS, HAVING A WASTE CONNECTION, OR REQUIRING WATER SERVICE. EXPOSED TRAPS AND SUPPLIES IN EXPOSED AREAS (INCLUDING CABINET INTERIORS) SHALL BE CHROME PLATED BRASS.
17. INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. PROCEED AS RAPIDLY AS CONSTRUCTION WILL PERMIT. SET FIXTURES LEVEL AND IN PROPER ALIGNMENT. INSTALL SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES, PER MANUFACTURER'S ROUGH-IN DIMENSIONS. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL, FOR SANITARY JOINT. REPAIR ANY DAMAGE DONE TO EXISTING FEATURES AND RESTORE TO ORIGINAL CONDITIONS. PROVIDE CLEAN CONDITIONS AT TERMINATION OF WORK.
18. TEST WATER, GAS, VENT, AND WASTE SYSTEMS PER LOCAL CODE REQUIREMENTS. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP ARE DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST TILL STANDARDS ARE ACHIEVED.
19. GUARANTEE THE WORK AND THE INSTALLATION FOR ONE YEAR AFTER FORMAL ACCEPTANCE BY THE OWNER.
20. ALL SAW CUT AND PATCH BACK OF FLOOR TO MATCH EXISTING FINISHES. BACKFILL PER DEVELOPER OR OWNER' SOILS ENGINEER'S RECOMMENDATIONS

○ PLUMBING KEY NOTES

1. 1-1/4"G DOWN TO WATER HEATER W/ SOV (SHUT OFF VALVE).
2. (2)¾" G DOWN TO RICE COOKER W/ SOV. PROVIDE 6" LENGTH OF RIGID PIPE BETWEEN RICE COOKER AND FLEXIBLE GAS LINE.
3. CW SHUT OFF BALL VALVE LOCATED WITHIN WALL. REFER ARCH INTERIOR ELEVATIONS FOR HEIGHT. PROVIDE ACCESS PANEL.
4. 1½" G DOWN TO DEEP FRYER W/ SOV.
5. 1½" G DOWN TO CHINESE RANGE "20A OR 20B" W/ SOV. LOCATE STUB OUT BEHIND THE END OF RANGE FOR EASY ACCESS.
6. 1" G DOWN TO CHINESE RANGE "20Q" OR "20R" W/ SOV.
7. EXHAUST & INTAKE VENTS UP TO ROOF. COORDINATE WITH MECHANICAL DRAWINGS AND DETAIL #10 ON SHEET P-500.
8. ROUTE NEW PIPING IN WALL.
9. GAS ANSUL VALVE PROVIDED BY OWNER (G.C. CALL CAPITVEARE FOR DELIVERY). INSTALL GAS ANSUL VALVE AS CLOSE TO EXTERIOR WALL AS ALLOWED PER LOCAL CODE.
10. 1/2" WATER PIPE UP IN CURB. VALVE AND CAP.
11. 1" G UP TO ROOF W/ SOV. FOR ROOFTOP UNITS.
12. ½" CW TO TRAP PRIMER. PROVIDE WALL ACCESS PANEL. RUN ½" CW BELOW FLOOR TO FLOOR DRAIN, SEE DETAIL #17 ON PLAN P-500.
13. ¾" GAS DOWN FOR EQUIPMENT.
14. SHUT OFF VALVE W/ HANDLE AT 11'-0" ABOVE FINISH FLOOR, EASILY ACCESSIBLE. G.C. TO INSTALL LOCATION INDICATOR STICKER PROVIDED BY PANDA EXPRESS
15. ½" GAS UP TO MAKE-UP AIR UNIT ON ROOF.
16. ½" HW & CW TO FAUCET (40B) FOR CHEMICAL FEED SYSTEM. LEFT SIDE PLUMBING ROUGH AT 24" OFF LEFT END OF SINK. SEE DETAL 7 SHEET P-500
17. GAS HEADER – INSTALL TIGHT TO WALL AND TIGHT TO BOTTOM OF TRUSSES.
18. COLD WATER MANIFOLD "C" BELOW CEILING. REF ARCH ELEVATIONS
19. COLD WATER MANIFOLD "D" BELOW CEILING. REF ARCH ELEVATIONS
20. HOT WATER MANIFOLD "A" BELOW CEILING. REF ARCH ELEVATIONS
21. SEE HOT WATER SYSTEM DIAGRAM 5/P-400
22. 3/4" GALVANIZED PIPE. THREADED AT BOTH ENDS. ROUTE ABOVE CEILING FROM FRYERS TO GREASE STORAGE TANK.
- ROUGH-IN HEIGHT AT STORAGE ROOM: 90" AFF
- ROUGH-IN HEIGHT AT COOKLINE: 18"AFF
- VERTICAL RISE AT FRYER LOCATION HIGH AS POSSIBLE, BUT NOT TO EXCEED 15' IN HEIGHT
- SLOPE OF PIPE TO BE STEEP AS POSSIBLE BUT NO LESS THAN 1/4" PER LINEAR FOOT

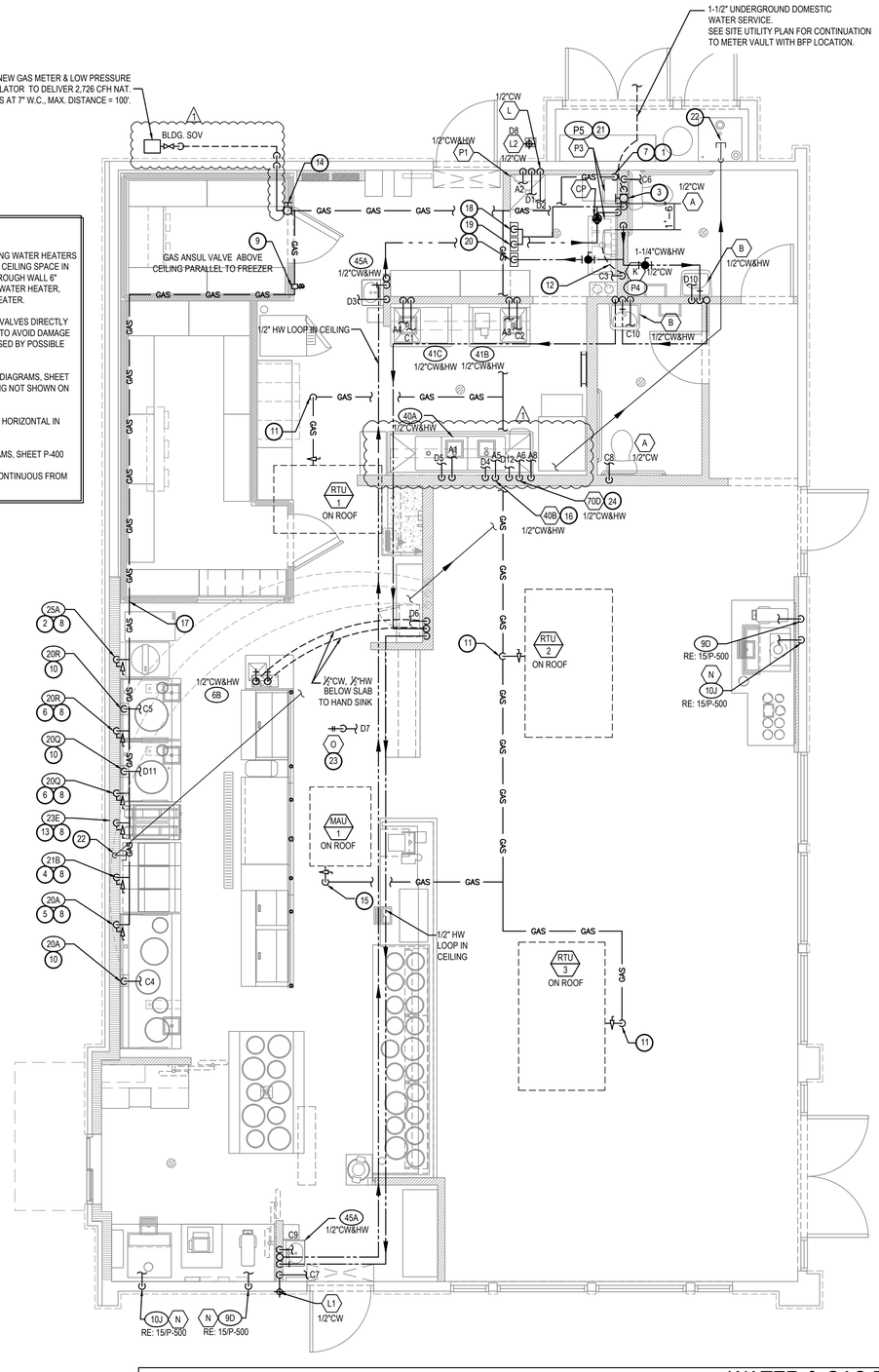
23. 1/2" CW UP TO "O" ROOF HYDRANT, LOCATE PER OWNER REQUIREMENTS
24. CONNECTIONS TO DISHWASHER TO BE LOCATED UNDER THE DRAIN BOARD OF 3-COMP SINK. SEE DETAIL 7 ON SHEET P-500.

PLUMBING SYMBOLS

COLD WATER PIPING	
HOT WATER PIPING	
GAS — G — GAS	GAS LINE
PLUMBING VENT (V)	
FV	PLUMBING VENT (V) BELOW SLAB/GRADE
SAN	SANITARY WASTE (SAN) BELOW SLAB/GRADE
GW	GREASE WASTE (GW) BELOW SLAB/GRADE
	PIPE TURNING UP/DOWN
GAS GAS	GAS COCK
	F.S. WITH HALF GRATE
FD	FLOOR DRAIN
A	FIXTURE IDENTIFICATION
1	PLAN NOTE
1	KITCHEN EQUIPMENT IDENTIFICATION
VTR	VENT THRU ROOF
AFF/AFG	ABOVE FINISHED FLOOR/GRADE
CO	CLEANOUT
WCO	WALL CLEANOUT
FCO FGCO	FLUSH FLOOR/GRADE CLEANOUT
FPC	FIRE PROTECTION CONTRACTOR
DNR	DEPARTMENT OF NATURAL RESOURCES
TYP	TYPICAL
(E)	EXISTING
	POINT OF CONNECTION
BV	BALL VALVE
CV	CHECK VALVE
GS	GREASE WASTE

NOTES:

1. ALL WATER LINES SERVING WATER HEATERS SHALL RUN DOWN FROM CEILING SPACE IN WALL, OFFSET OVER THROUGH WALL 6" BELOW CEILING, ABOVE WATER HEATER, THEN DROP DOWN TO HEATER.
2. AVOID RUNNING WATER VALVES DIRECTLY ABOVE WATER HEATER, TO AVOID DAMAGE TO WATER HEATER CAUSED BY POSSIBLE LEAKS.
3. REFER TO PIPING RISER DIAGRAMS, SHEET P-400 FOR ALL PIPE SIZING NOT SHOWN ON FLOOR PLAN.
4. DO NOT RUN ANY PIPING HORIZONTAL IN WALL SPACE, U.N.O.
5. REFER TO RISER DIAGRAMS, SHEET P-400
6. ALL PEX PIPING TO BE CONTINUOUS FROM MANIFOLD



WATER & GAS PLAN	1
Scale: 1/4"=1'-0"	P-100

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
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REVISIONS:

1	OWNER REVISIONS	01-30-23

ISSUE DATE:

	ISSUE FOR PERMIT	10-20-22
	ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

MPW
MPW ENGINEERING, LLC
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CLARKSVILLE, TN 37040

P-100
WATER & GAS PLAN

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-23

ISSUE FOR BID 01-30-23

PLUMBING FIXTURE SCHEDULE

- A — TANK WATER CLOSET (HANDICAPPED): AMERICAN STANDARD 2467.016, FLUSH TANK WITH TRIP LEVER ON OPEN SIDE OF TOILET. FLOOR MOUNTED. STANDARD WHITE FINISHED. ELONGATED FRONT BOWL. PRESSURE ASSISTED 1.6 GPF. RIM 16 1/2" A.F.F. AM. STD 4142.600 TANK COVER LOCKING DEVICE AM. STD. 5901.100.020 OPEN FRONT SEAT LESS COVER.
- B — LAVATORY: ZURN MODEL Z5344, 20"x18" WALL HUNG LAVATORY, VITREOUS CHINA, WITH 4" CENTER FAUCET HOLES & ZURN Z-1231 CONCEALED ARM CARRIER. FAUCET: TOTO TEL101 -D10ET STANDARD ECOPOWER FAUCET. SENSOR, 1.0 GPM, 0.18gpc. 4" COVER PLATE #THP3158#CP. THERMOSTIC MIXING VALVE: TOTO TLT10R. PROVIDED & INSTALLED BY CONTRACTOR CONTACT CHRISTINE MCALEXANDER 800-459-7099 PANDARG@HJCINC.COM
- C — NOT USED
- D — FLOOR DRAIN: ZURN # ZB415-B5 CAST IRON DRAIN WITH 5" ROUND POLISHED BRONZE TOP, MEMBRANE FLASHING CLAMP. PROVIDE 3" OUTLET WITH P-TRAP. CLEAN AND POLISH AFTER INSTALLATION. REFER TO DETAIL 17/P-500. PROVIDE TRAP PRIMER
- D1 — FLOOR DRAIN: ZURN # ZB415-B5 CAST IRON DRAIN WITH 5" ROUND POLISHED BRONZE TOP, MEMBRANE FLASHING CLAMP. PROVIDE 3" OUTLET WITH P-TRAP. CLEAN AND POLISH AFTER INSTALLATION. REFER TO DETAIL 9/P-500. PROVIDE TRAP PRIMER
- E — FLOOR SINK: ZURN # Z1902-31, RECEPTOR WITH 12" SQUARE TOP x 10" DEEP CAST IRON BODY WITH ACID-RESISTING ENAMEL INTERIOR. RECEPTOR PROVIDED WITH STAINLESS STEEL MESH LINER FOR BUCKET WITHOUT GRATE.
- E1 — FLOOR SINK: ZURN # Z1902-2-32, RECEPTOR WITH 12" SQUARE TOP x 10" DEEP CAST IRON BODY WITH ACID-RESISTING ENAMEL INTERIOR. RECEPTOR PROVIDED WITH PORCELAIN ENAMEL LOOSE-SET 1/2 GRATE AND ALUMINUM DOME STRAINER
- F — NOT USED
- G — FLOOR DRAIN WITH FUNNEL: ZURN # ZB415-AR-4 ACID RESISTING EPOXY COATED CAST IRON DRAIN WITH 5" ROUND POLISHED BRONZE TOP, 4" FUNNEL. PROVIDE 2" OUTLET WITH P-TRAP. CLEAN AND POLISH AFTER INSTALLATION. REFER TO DETAIL. PROVIDE TRAP PRIMER
- H — NOT USED
- I — GREASE INTERCEPTOR: SCHIER GB-250 HYDROMECHANICAL GREASE INTERCEPTOR WITH FLOW CONTROL. REFER TO CIVIL DRAWINGS FOR LOCATION. THE DESIGN OF THE GREASE INTERCEPTOR SHALL BE APPROVED BY LOCAL CITY REQUIREMENT.
- J — NOT USED (△2)
- K — PROVIDE ZURN 375ST STAINLESS STEEL REDUCED PRESSURE PRINCIPLE ASSEMBLY AT BAG-N-BOX. REFER TO 15/P-500
- L — HOSE BIBB: ACORN #8121 WITH VACUUM BREAKER, CHROME PLATED.
- L1 — HOSE BIBB: WOODFORD MB65 FREEZELESS COMMERCIAL CONCEALED BOX TYPE WALL HYDRANT IN SECURE LOCK STYLE MODULAR BOX. SINGLE CHECK ANTI SIPHON VACUUM BREAKER. CHROME HEAD, BRASS VALVE BODY HYDRANT WITH ¾" HOSE CONNECTION 18" A.F.F.
- L2 — LAWN HYDRANT: WOODFORD Y95 ANTI-SIPHON, AUTOMATIC DRAINING, FREEZELESS, WITH LOCKING COVER. INSTALLED FLUSH WITH SURROUNDING AREA
- M — TRENCH DRAIN: ZURN #Z-886-RFS, 6" WIDE x 80" LONG, TRENCH DRAIN SYSTEM. MODULAR CHANNEL SECTIONS SHALL BE MADE OF HIGH DENSITY POLYETHYLENE WITH INTERLOCK ENDS, A RADIUS BOTTOM AND REINFORCED STAINLESS STEEL SLOTTED GRATE.
- M1 — TRENCH DRAIN: ZURN #Z-664-ZN, 6" WIDE X 12" LONG, TRENCH DRAIN SYSTEM. PROVIDE ONE BOTTOM OUTLET MODULE AND ONE EXTENSION MODULE WITH INTERLOCK ENDS, STAINLESS STEEL SLOTTED HEEL-PROOF GRATE.
- N — PROVIDE WATTS SD-3 DUAL CHECK VALVE WITH ATMOSPHERIC PORT AND STRAINER AFTER EACH BV.
- O — FREEZE PROOF ROOF HYDRANT: WOOFORD MODEL: SRH-MS
- P1 — MOP SINK: GSW # SE2424FM 24"x24" STAINLESS STEEL UNIT , 18 GA. STAINLESS STEEL. CHICAGO FAUCET #897 WITH INTEGRAL STOPS IN SHANKS, WALL BRACE, HOSE THREADS, PAIL HOOK, VACUUM BREAKER; ROUGH BRASS FINISH; THREE FOOT RUBBER HOSE; 3" TRAPPED AND VENTED WASTE CONNECTION. PROVIDE 3/4" HW & CW RI 8" OC, 36" A.F.F. PROVIDE ¾" CW HOSE BIBB, ACORN #8121 W/ VACUUM BREAKER, 48" A.F.F. FOR CHEMICAL CONNECTION.
- P3 — TANKLESS GAS WATER HEATER SYSTEM. MFG: RINNAI TRX-02CU (2 CU199i), 398,000 BTU/HR GAS INPUT. 7.6 GPM @ 100° RISE. SEE PIPING DIAGRAM ON SHEET P-400 INCLUDE ALL PIPING, VENTING, WALL MOUNTING BRACKET (PROVIDE "TENNESSEE RACK" 18" BETWEEN UNITS) AND ANY ACCESSORIES NECESSARY TO COMPLETE SYSTEM INSTALL. PLUMBER SHALL REGISTER PRODUCT WITH RINNAI AT TIME OF INSTALLATION TO VALIDATE WARRANTY. CONTACT: RICO VIGLIETTI, RINNAI AMERICA CORPORATION CORPORATE ACCOUNTS MANAGER (901 440-7389 JVIGLIETTE@RINNAI.US
- CP — HW CIRC. PUMP - MFG: GRUNDFOS, UP 15-18B5, 1/25 HP, 115 VOLT, 2 GPM @ 7' HEAD OR APPROVED EQUIVALENT.
- RD — RD - ROOF DRAIN: J.R. SMITH #1010 CAST IRON ROOF DRAINS WITH FLASHING COLLAR AND CAST IRON DOME. FURNISH EXTENSION (SUFFIX-E) FOR INSULATED ROOFS. SUMP RECEIVER (SUFFIX-R) AND UNDER-DECK CLAMP (SUFFIX-C) FOR ALL BUT POURED-IN-PLACE INSTALLATIONS. OUTLET CONNECTION TYPE SHALL BE COMPATIBLE WITH PIPING SYSTEM. PLUMBER TO PROVIDE AND INSTALL HEAT TAPE, RADIANT SOLUTIONS #JHSF-30-1 ON BOTH DRAINS IN COLD CLIMATES.
- OD — OD - OVERFLOW ROOF DRAIN: J.R. SMITH #1070 WITH SAME FEATURES AS DESCRIBED FOR "ROOF DRAINS". STANDPIPES SHALL BE ADJUSTED AND SECURED SO THAT AFTER THE INSTALLATION OF THE DRAIN ASSEMBLY, THE TOP OF THE STANDPIPE SHALL BE (2") ABOVE THE ADJACENT ROOF SURFACE.
- 40B — FAUCET FOR CHEM: T&S BRASS MODEL #B-0669-POL. PROVIDED BY G.C.

FIXTURE BRANCH SCHEDULE

FIXTURE	COLD WATER	HOT WATER	WASTE	VENT
WATER CLOSET (HANDICAPPED)	1/2"	--	4"	2"
LAVATORY	1/2"	1/2"	2"	1 1/2"
2 AND 3 - COMP SINK	1/2"	1/2"	3"	2"
HAND SINK	1/2"	1/2"	2"	1 1/2"
MOP SINK (J.S.)	1/2"	1/2"	3"	2"
EQUIPMENT	1/2"	--	--	--
FLOOR DRAIN/SINK	--	--	2" OR 3"	2"

KITCHEN EQUIPMENT SCHEDULE

ITEMS IN THIS SCHEDULE ARE FURNISHED BY THE OWNER (U.N.O.) AND INSTALLED BY THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE AND CONNECTED TO THE PLUMBING UTILITIES BY THE PLUMBING CONTRACTOR, WHO SHALL INSTALL ALL PLUMBING DEVICES FURNISHED WITH EQUIPMENT.

WASTE, FS = FLOOR SINK, CFD = CONDENSATE FLOOR DRAIN, VB = VACUUM BREAKER. FLEX = A SIX FOOT COILED LENGTH OF FOOD QUALITY FLEXIBLE REINFORCED PLASTIC TUBING CONNECTED FROM THE ROUGH IN TO THE EQUIPMENT WITH ALL REQUIRED ADAPTERS AND HOSE CLAMPS.

ALL PIPES MUST MAINTAIN A MINIMUM CLEARANCE OF 6" AFF AND MUST BE WELL SUPPORTED. NO FLOOR SUPPORTS ALLOWED.

- 4A — SERVING COUNTER MOUNTED SODA MACHINE: IF PROVIDED, SODA MACHINE INSTALLER TO PROVIDE DRAIN LINES FROM ICE BIN AND SODA MACHINE TO FS WITH 1" AIR GAP. DRAIN LINE TO BE INSULATED. WATER TO SODA MACHINE TO BE PROVIDED THROUGH BUNDLE FROM FILTER AND RACK IN KITCHEN BY SODA MACHINE INSTALLER.
- 4AB — BEVERAGE COUNTER MOUNTED SODA MACHINE WITH ICE MACHINE: PROVIDE ¾" COPPER PIPE IW FROM COUNTER THROUGH DRAIN TO FS WITH 1" AIR GAP, INSULATE. WATER TO SODA MACHINE TO BE PROVIDED THROUGH BUNDLE FROM FILTER AND RACK IN KITCHEN BY SODA MACHINE INSTALLER. NO LEGS TO BE INSTALLED. MACHINE TO SET DIRECTLY ON COUNTER.
- P4 — WATER FILTER: PROVIDE ½" CW AT 96" AFF WITH BV. PROVIDE FLEX AND REDUCED PRESSURE STAINLESS STEEL BACKFLOW PREVENTOR, OR OTHER DEVICE AS REQUIRED BY LOCAL CODE. INSTALL OWNER PROVIDED WATER FILTER AND MAKE CONNECTIONS TO BACKFLOW PREVENTOR AND WATER SUPPLY. PROVIDE ALL REQUIRED FITTINGS TO ALLOW SODA MACHINE INSTALLER TO HOOK UP BOOSTER PUMP TO WATER FILTER. REFER TO DETAIL 15/P-500.
- 6B — 22"D REAR COUNTER WITH HAND SINK, PROVIDE ½" CW AND ½" HW AT 24" AFF AND 8" OC WITH CHROME-PLATED, ¼ TURN BALL VALVES. CONNECT TO OWNER SUPPLIED FAUCETS WITH METAL FLEX PROVIDE 2" DRAIN PIPE WITH 'P' TRAP AND WALL MOUNTED CLEAN-OUT. ALL EXPOSED DRAIN PIPES AND FITTINGS TO BE CHROME PLATED, NOT P.V.C.
- 9D — ICE TEA MAKER: PROVIDE ½" CW @ 24" A.F.F. PROVIDE ALL REQUIRED FITTINGS TO ALLOW ICE TEA INSTALLER TO HOOK UP ONE BV, OTHER BV FOR OTHER EQUIPMENT.
- 10J — SODA MACHINE MOUNTED ICE MACHINE. PROVIDE 1/2" CW AT 24" A.F.F. WITH BV. PROVIDE ALL REQUIRED FITTINGS TO ALLOW ICE MACHINE INSTALLER TO HOOK UP ICE MACHINE TO CW.
- 20A / 20B — CHINESE RANGE: PROVIDE ½" CW AT 10" AFF WITH BV. PROVIDE PRESSURE TYPE VB OR OTHER BACKFLOW DEVICE AS REQUIRED BY LOCAL CODE, AND CONNECT TO OWNER SUPPLIED FAUCETS. PROVIDE 2" COPPER PIPE IW TO FS WITH 2" AIR GAP. PROVIDE ½" GAS SUPPLY AT 9" AFF WITH EASILY ACCESSIBLE SHUT-OFF VALVE. INSTALL OWNER SUPPLIED GAS REGULATOR AND ADJUST GAS LEVEL TO BURNERS.
- 20Q — CHINESE RANGE: PROVIDE ½" CW AT 10" AFF WITH BV. PROVIDE PRESSURE TYPE VB OR OTHER BACKFLOW DEVICE AS REQUIRED BY LOCAL CODE, AND CONNECT TO OWNER SUPPLIED FAUCETS. PROVIDE 2" COPPER PIPE IW TO FS WITH 2" AIR GAP. PROVIDE 1" GAS SUPPLY DOWN TO 9" AFF REDUCE TO ½" AT EQUIPMENT CONNECTION WITH EASILY ACCESSIBLE SHUT-OFF VALVE. INSTALL OWNER SUPPLIED GAS REGULATOR AND ADJUST GAS LEVEL TO BURNERS.
- 20R — CHINESE RANGE-AUTO WOK: PROVIDE ½" CW AT 10" AFF WITH BV. INSTALL OWNER SUPPLIED GAS REGULATOR AND ADJUST GAS LEVEL TO BURNERS.
  CONTRACTOR TO PROVIDE AND INSTALL THE FOLLOWING:
  - BACKFLOW DEVICE PER LOCAL CODE
  - WATER FAUCET (FISHER 36161)
  - CMI LEAD FREE BRASS BALL VALVE
  - STREAMLINE COPPER-IRON TUBE
  - 2" COPPER PIPE IW TO FS WITH 2" AIR GAP
  - 1" GAS SUPPLY DOWN TO 9" AFF, REDUCE TO ¾" AT EQUIPMENT CONNECTION WITH EASILY ACCESSIBLE SHUT-OFF VALVE.
- 21B — FRYER: PROVIDE ½" GAS SUPPLY DOWN TO 14" AFF. THEN TRANSITION TO 1" WITH 90° ANGLE AND SHUT OFF VALVE. PROVIDE ALL REQUIRED FITTINGS AND INSTALL OWNER SUPPLIED QUICK DISCONNECT FLEXIBLE PIPE AND CONNECT TO UNITS WITH 90° ANGLE. SEE DETAIL ON P-500
- 23E — GRIDDLE: PROVIDE ¾" GAS SUPPLY DOWN TO 20" AFF WITH EASILY ACCESSIBLE SHUT-OFF VALVE. PROVIDE ALL REQUIRED FITTINGS. CONNECT TO UNIT WITH OWNER SUPPLIED QUICK DISCONNECT (3/4"x48", (1) SWIVEL KIT)
- 25A — RICE COOKER: PROVIDE ¾" GAS SUPPLY AT 30", AND ¾" GAS SUPPLY AT 10" AFF WITH SHUT OFF VALVES, ONE FOR EACH UNIT. PROVIDE ALL REQUIRED FITTINGS AND INSTALL OWNER SUPPLIED QUICK DISCONNECT FLEXIBLE PIPE AND CONNECT TO UNITS.
- 31 — WALK-IN COOLER: PROVIDE 1" COPPER PIPE IW FROM DRAIN PAN ON EACH UNIT TO FLOOR DRAIN WITH 'P' TRAP AND 1" AIR GAP. MOUNT ALL PIPES WITHIN WALK-IN BOX WITH 1" HOLD-OFF SUPPORTS.
- 32 — WALK-IN FREEZER: PROVIDE 1" COPPER PIPE IW FROM DRAIN PAN ON EACH UNIT TO FLOOR DRAIN WITH 'P' TRAP AND 1" AIR GAP. MOUNT ALL PIPES WITHIN WALK-IN BOX WITH 1" HOLD-OFF SUPPORTS. PROVIDE HEAT TRACE REFER TO ELECTRICAL DRAWING.
- 40A — POT SINK: PROVIDE ½" CW AND ½" HW AT 14" AFF AND 8" OC WITH BVS & CV. CONNECT TO OWNER SUPPLIED FAUCET WITH COPPER PIPING. PROVIDE 1-1/2" COPPER PIPE IW TO FS WITH 2" AIR GAP, OR, IF REQUIRED BY LOCAL CODE, INSTALL 2" COPPER PIPE DIRECTLY TO SEWER SYSTEM. INSTALL OWNER SUPPLIED LEVER DRAIN STOPS. SEE DETAIL ON SHEET P-500.
- 40T — THAWING CABINET: 1-DOOR, STAINLESS STEEL GRIDS, 177GAL (670LT), 28 - 50°F FULLY PRESSED BOTTOM PLATE AND ROUNDED CORNERS; IT IS SUPPLIED WITH 15 AISI 304 GRIDS 2/1 AND THE RACK SUPPORT CAN BE REMOVED WITHOUT TOOLS. THE 3 FACTORY PRESET AND 1 FREE PROGRAMS. BUILT-IN REFRIGERATION UNIT WITH R134A GAS IN REFRIGERATION CIRCUIT. MEETS HACCP REQUIREMENTS. DELIVERED ON WHEELS
- 41B / 41C — SINGLE BOWL PREP SINK: PROVIDE ½" CW AND ½" HW AT 14" AFF AND 8" OC WITH BVS. CONNECT TO OWNER SUPPLIED FAUCETS WITH COPPER PIPING. PROVIDE 2" COPPER PIPE IW TO FS WITH 2" AIR GAP, OR, IF REQUIRED BY LOCAL CODE, INSTALL 2" COPPER PIPE DIRECTLY TO SEWER SYSTEM. INSTALL OWNER SUPPLIED LEVER DRAIN STOPS.
- 45A — HAND SINK: PROVIDE ½" CW AND ½" HW AT 24" AFF AND 8" OC WITH CHROME-PLATED, ¼ TURN BALL VALVES. CONNECT TO OWNER SUPPLIED FAUCETS WITH METAL FLEX PIPING. PROVIDE 2" DRAIN PIPE WITH 'P' TRAP AND WALL MOUNTED CLEAN-OUT. ALL EXPOSED DRAIN PIPES AND FITTINGS TO BE CHROME PLATED, NOT P.V.C.
- 70D — POT WASHER: HOBART PW10SER ADVANSYS VENTLESS POT/ PAN/ UTENSIL WASHER W/ BOOSTER HEATER. INTERNAL CONDENSING SYSTEM. VENTLESS ENERGY RECOVERY SYSTEM. HOOD NOT REQUIRED. PROVIDE (2) BRASS HOSE BIB @20" AFF. HOT WATER HB WITH RED HANDLE. COLD WATER HB WITH BLUE HANDLE.
- 70D1 — WATER SOFTENER: HOBART WS-40, COMPACT CABINET SOFTENER. PROVIDE ON COLD WATER SIDE ONLY
- P5 — FILTER AT WATER HEATER. ONEFLOW MODEL #OFTWH FILTER SUPPLIED BY PANDA. PROVIDE TRANSITION FITTINGS AT INLET AND OUTLET OF FILTER. SEE DETAIL 5/P-400

WATER PIPE SIZING CHART (HOT WATER)

PIPE SIZE	GPM	VELOCITY FT/SEC	FIXTURE UNITS F - TANK	F - VALVE
1/2"	2.5	3.5	2 F.U. @ psi	F.U. @ psi
3/4"	6.6	4.4	8 F.U. @ psi	F.U. @ psi
1"	13.2	5.0	19 F.U. @ psi	F.U. @ psi
1-1/4"	19.0	5.0	37 F.U. @ psi	6 F.U. @ psi

PLUMBING KEY NOTES

1. SODA CONDUIT: PROVIDE 6" PVC CONDUIT BELOW FLOOR FROM THE SIDE OF SODA STORAGE RACK TO SODA DISPENSER PER DETAIL #4 ON SHEET P-500.
2. CONDENSATE: ROUTE SHARED CONDENSATE LINE THROUGH WALK-IN COOLER. DO NOT RUN THROUGH WALK-IN FREEZER. PROVIDE 1" INSULATED CONDENSATE DRAIN PIPE FROM THE EVAPORATIVE COIL. DISCHARGE TO FLOOR SINK OR MOP SINK WITH AIR GAP OF TWICE PIPE DIAMETER. INSTALL AT MINIMUM 76" HEIGHT A.F.F. REFER TO DETAIL #2 ON SHEET P-500.
3. PROVIDE TRAP PRIMER FOR FLOOR SINK. SEE DETAIL 17/P-500.
4. RDL & ODL LINES DN. IN WALL. TERMINATE ODL THRU WALL AS CLOSE TO BOTTOM PLATE AS POSSIBLE, EXTEND 1/2" PAST ARCH FINISH, WATER PROOF SEAL ALL AROUND. TERMINATE RDL & ODL WITH 4" PVC LAMB'S TONGUE NOZZLE, COLOR ANTIQUE BRONZE, ARKMANN MODEL #PDN-4. (IF AVAILABLE TIE RD TO STORM SEWER UNDERGROUND)
5. COMBINATION WASTE/VENT
6. LAV. TAILPIECE WITH TRAP PRIMER, RUN ½" CW BELOW FLOOR TO FLOOR DRAIN, SEE DETAIL #9 ON PLAN P-500.
7. (AAV) STUDOR MINI-VENT AIR ADMITTANCE VALVE- INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
8. WYE WITH CLEANOUT ON TOP.

FIXTURE UNIT SCHEDULE

ITEM	FIXTURE	QTY	WATER FU EACH	WATER FU TOTAL	SEWER FU EACH	SEWER FU TOTAL
A	WATER CLOSET	2	5	10	4	8
B	LAVATORY	2	2	4	1	2
D D1	FLOOR DRAIN 3" TRAP	5	___	___	5	△1 25
E E1	FLOOR SINK 3" TRAP	11	___	___	5	55
P1	MOP SINK	1	3	3	2	2
G	FLOOR DRAIN W/ FUNNEL 2" TRAP	2	___	___	3	6
L L1	HOSE BIBB	△1 4	4	△1 16	___	___
M M1	TRENCH DRAIN 3" TRAP	2	___	___	5	10
4F	FILTER SYSTEM	1	1	1	FS	___
9D	ICE TEA BREWER	2	1	2	FS	___
10J	400 LB ICE MACHINE	2	1	2	FS	___
20A	CHINESE RANGE	1	2	2	FS	___
20Q 20R	CHINESE RANGE	2	2	4	FS	___
40A	POT SINK (3.COMP.)	1	4	4	FS	___
40B 41B 41C	PREP. SINK (1.COMP.)	2	4	8	FS	___
45A 6B	HAND SINK (WALL MOUNT)	3	2	6	1	3
40T	THAWING CABINET	1	-	-	FS	___
70D	POT WASHER	1	4	4	FS	___
TOTAL				△1 66		△1 111

FIXTURE UNIT SUMMARY

SERVICE	TOTAL F.U.
DOMESTIC WATER	△1 66
SANITARY SEWER	△1 111

SERVICE REQUIREMENTS

SERVICE	SIZE MAIN		CAPACITY	
DOMESTIC WATER	1-1/2	INCH	31	GPM
SANITARY SEWER	4	INCH	106	F.U.
FUEL GAS	3	INCH	2,726	CFH
FIRE PROTECTION		INCH		GPM

WATER PIPE SIZING CHART (COLD WATER)

PIPE SIZE	GPM	VELOCITY FT/SEC	FIXTURE UNITS F - TANK	F - VALVE
1/2"	2.5	3.5	2 F.U. @ psi 6.0	F.U. @ psi
3/4"	6.6	4.4	8 F.U. @ psi	F.U. @ psi
1"	13.4	5.2	19 F.U. @ psi	F.U. @ psi
1-1/4"	23.3	5.9	37 F.U. @ psi	6 F.U. @ psi
1-1/2"	36.7	6.6	74 F.U. @ psi	23 F.U. @ psi
2"	76.4	7.9	254 F.U. @ psi	132 F.U. @ psi

* DOMESTIC WATER BACKFLOW PREVENTER MODEL: "WILKINS"975XL SIZE 1-1/2"

** PRESSURE REGULATING VALVE MODEL: N/A SIZE N/A

GREASE INTERCEPTOR CALCULATIONS *Reviewed by: Andy*

Reference No. 43664 Project Name: Panda Express - Clarksville, TN (23503)*

Step 1: Flow rate to grease interceptor

Fixture flow rate: (cu in / 231) = gal x 0.75 / 2 min = 2 min flow rate

NAME	TYPE	DIMENSIONS	QTY	CU IN	FLOW RATE
20A	Wok Range	N/A	1	N/A	6 GPM
20Q	Wok Range	N/A	2	N/A	12 GPM
40	3 Compartment Sink	21" x 21" x 14" (3)	1	18,522	30.07 GPM
41B	Prep Sink One Bowl	21" x 21" x 14"	1	6,174	10.02 GPM
41C	Prep Sink One Bowl	21" x 21" x 14"	1	6,174	10.02 GPM
45A	Hand Sink	10" x 14" x 5"	2	1,400	2.28 GPM
6B	Hand Sink	10" x 14" x 5"	1	700	1.14 GPM
70D	Conveyor (Dishwasher)	25 gal.	1	5,775	12.5 GPM
M - Trench Drain	Floor Drain	N/A	1	N/A	N/A
M1 - Trench Drain	Floor Drain	N/A	1	N/A	N/A
P1	Mop Basin	24" x 24" x 10"	1	5,760	9.35 GPM
Total					**93.37 GPM**

Flow rate used to size interceptor (less of fixture or pipe size)
Pipe size (4 in):
Pipe Size flow rate per Manning's Formula **75 GPM**

Step 2: Grease Production

Servings per day x Grease production value x Days between pump-outs = Grease output

Number of meals served per day: 500
Grease production value: 0.035 lbs per serving (Chinese: High / No flatware)
Days between pump-outs: 90 days

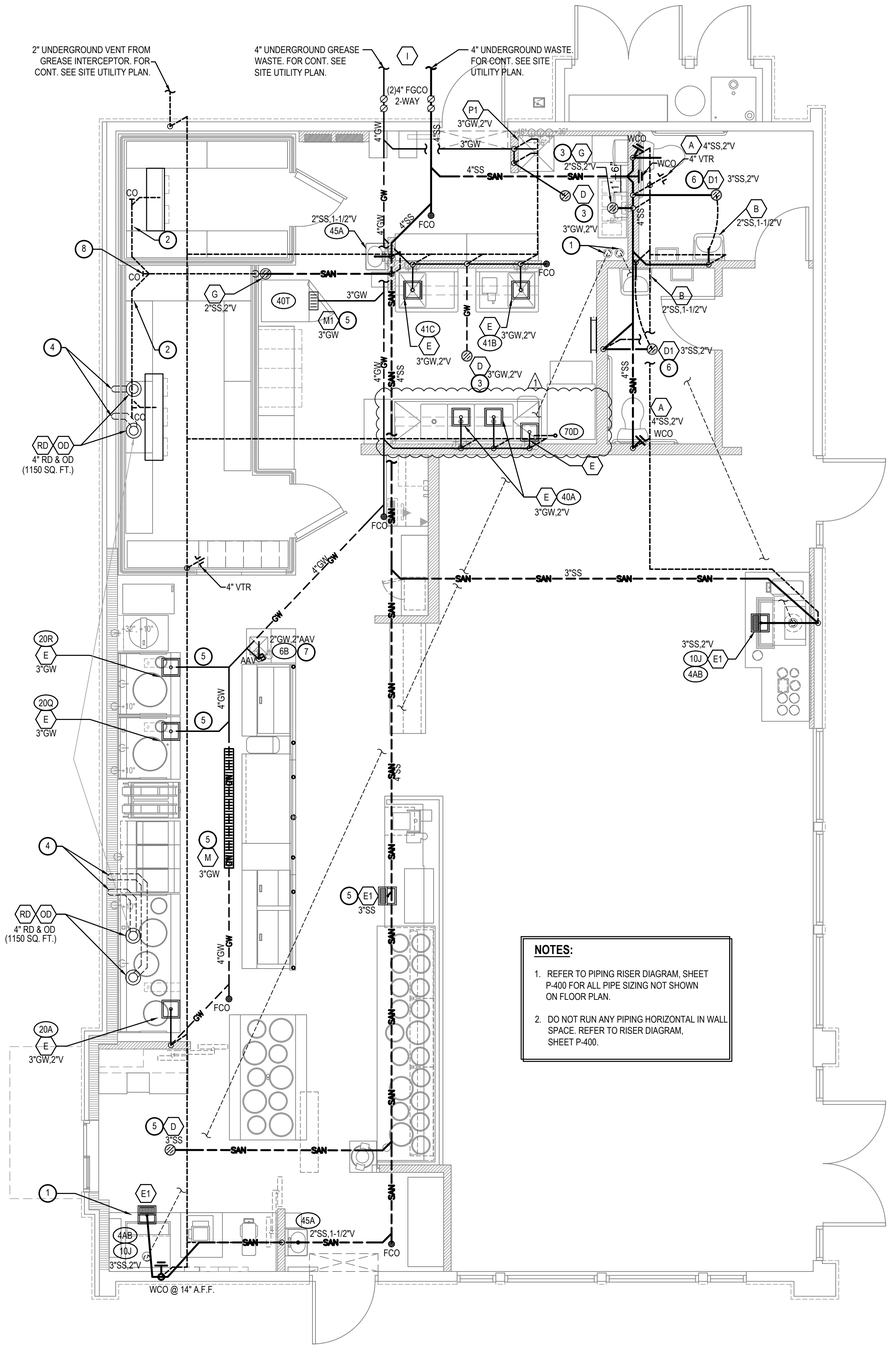
500 x 0.035 x 90 = 1575 lbs of FOG

SCHIER MODEL	
GB-250	**Description:** Polyethylene Grease Interceptor **Dimensions:** Length: 87", Width: 33", Height: 44" **Flow Rates/Grease Capacities:** 100 GPM / 1895.0 lbs **Liquid Capacity:** 277 gal

PIPE MATERIAL SCHEDULE

SERVICE	UNDERGROUND	ABOVE GROUND
COLD & HOT WATER	TYPE "K" OR "L" HARD DRAWN COPPER TUBE	PEX
SANITARY WASTE	*SCH. 40 PVC	*SCH. 40 PVC
SANITARY VENT	*SCH. 40 PVC	*SCH. 40 PVC
GAS	____	BLACK STEEL, SCHEDULE 40
INDIRECT DRAIN	____	HARD DRAWN COPPER TUBE TYPE "M"

*SCH. 40 PVC IS PREFERRED IF APPROVED BY AUTHORITY HAVING JURISDICTION. PROVIDE SCHEDULE 40 PVC FOR ALL WASTE VENT PIPING & FITTINGS.



NOTES:

1. REFER TO PIPING RISER DIAGRAM, SHEET P-400 FOR ALL PIPE SIZING NOT SHOWN ON FLOOR PLAN.
2. DO NOT RUN ANY PIPING HORIZONTAL IN WALL SPACE. REFER TO RISER DIAGRAM, SHEET P-400.

WASTE & VENT PLAN 1

Scale: 1/4"=1'-0" P-101

ISSUE FOR BID 01-30-23

PANDA EXPRESS CHINESE KITCHEN

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1683 Walnut Grove Ave.
Rosemead, California
91770
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PANDA STORE #: -
ARCH PROJECT #: 261-443

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CLARKSVILLE, TN 37040

P-101

WASTE & VENT PLAN

PANDA HOME 2600 R4

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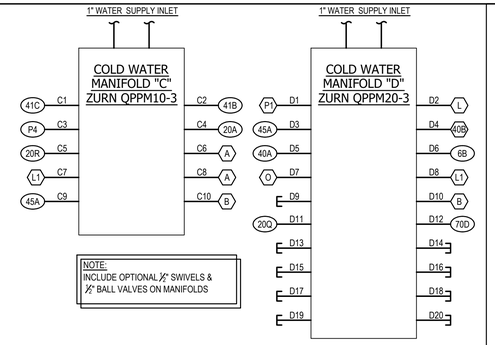
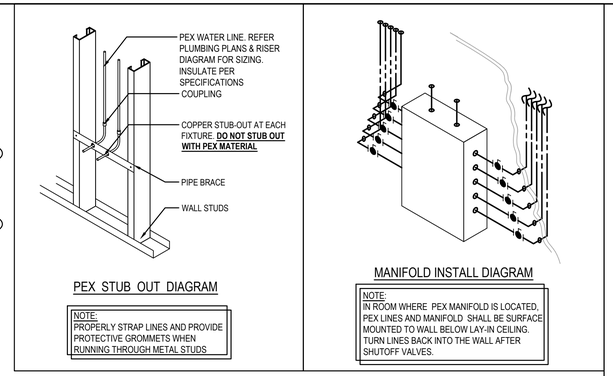
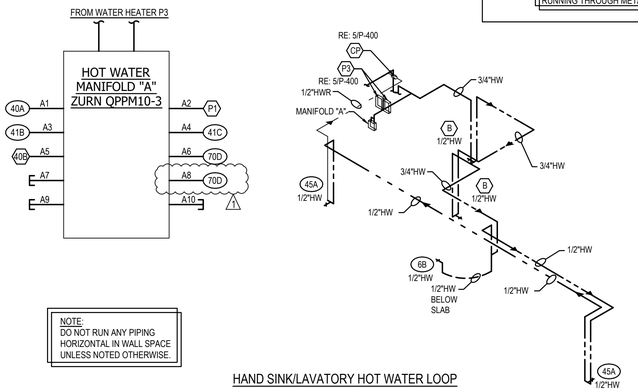
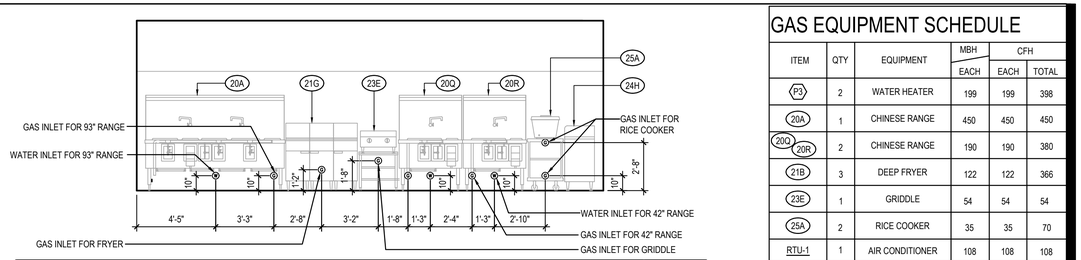






WATER RISER DIAGRAM | 11

NO SCALE | P-400



GAS COOKLINE ELEVATION | 4

NO SCALE | P-400

GAS EQUIPMENT SCHEDULE

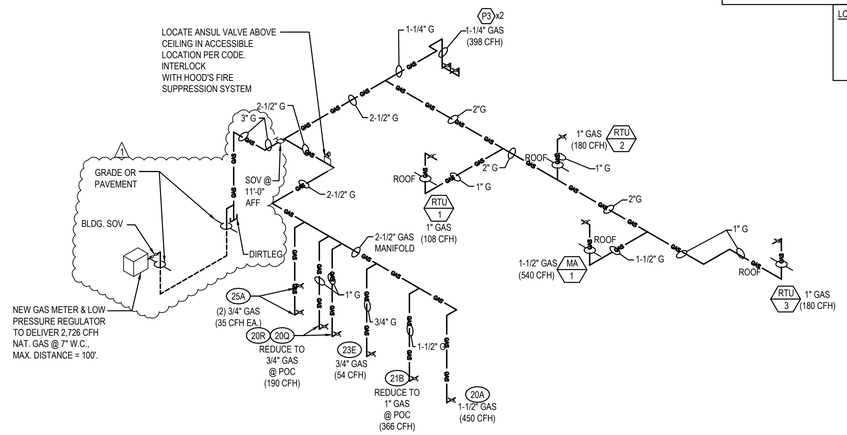
ITEM	QTY	EQUIPMENT	MBH EACH	CFH EACH	CFH TOTAL
P3	2	WATER HEATER	199	199	398
20A	1	CHINESE RANGE	450	450	450
20Q 20R	2	CHINESE RANGE	190	190	380
21B	3	DEEP FRYER	122	122	366
23E	1	GRIDDLE	54	54	54
25A	2	RICE COOKER	35	35	70
RTU-1	1	AIR CONDITIONER	108	108	108
RTU-2,3	2	AIR CONDITIONER	180	180	360
MAU-1	1	MAKE-UP AIR	540	540	540
TOTAL					2,726

LOW PRESSURE NATURAL GAS CALCULATION:
SIZED PER 2015 IFGC TABLE 402.4(2)

TOTAL DEVELOPED LENGTH: 100'

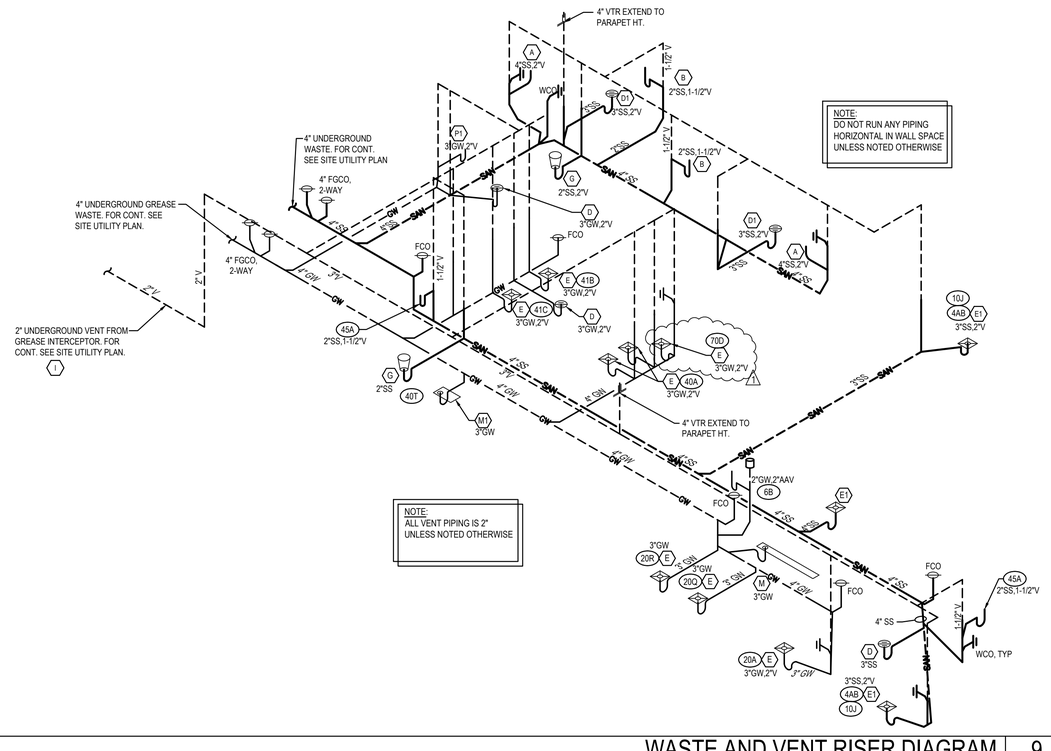
TOTAL LOAD: 2,726 CFH

NOTE:
DO NOT RUN ANY PIPING HORIZONTAL IN WALL SPACE



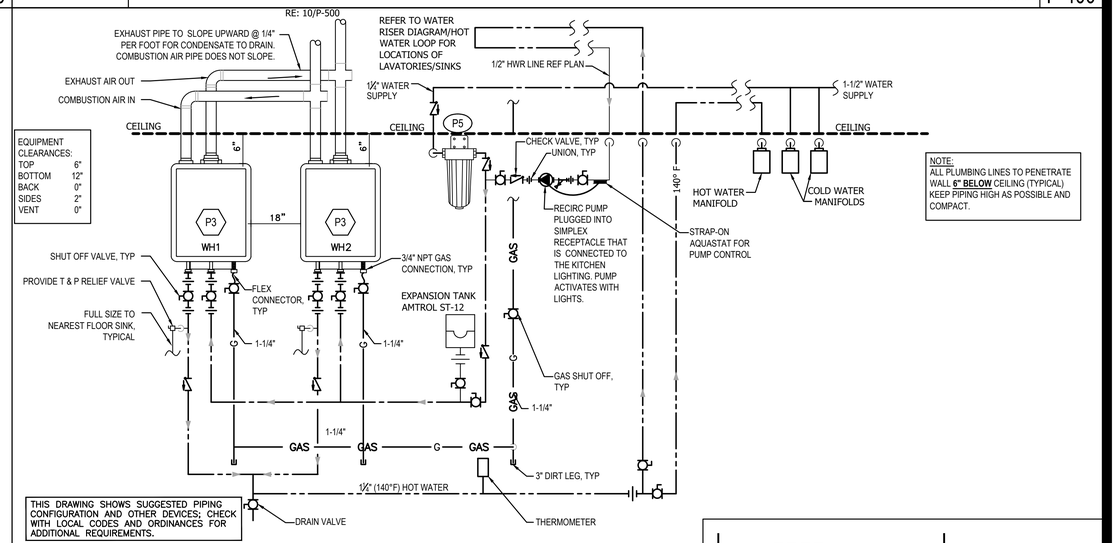
GAS RISER DIAGRAM | 3

NO SCALE | P-400



WASTE AND VENT RISER DIAGRAM | 9

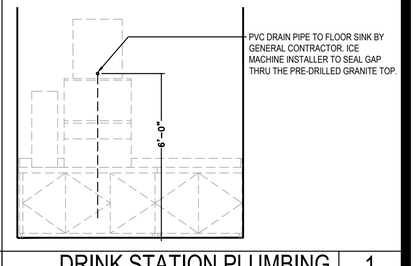
NO SCALE | P-400



NOTES:
1. ALL VENT PIPING SERVING WATER HEATERS SHALL TRANSITION TO 3" IMMEDIATELY AFTER CONNECTION. MANIFOLD BOTH VENTS TOGETHER AND ROUTE PIPING UP THROUGH THE CEILING TO THE ROOF. AVOID UNNECESSARY BENDS.
2. AVOID RUNNING WATER PIPING DIRECTLY ABOVE WATER HEATER TO AVOID DAMAGE TO WATER HEATER CAUSED BY POSSIBLE LEAKS.
3. DO NOT INSTALL VALVES, EQUIPMENT OR PIPING MAINS DIRECTLY OVER THE WATER HEATERS P3
4. ALL WATER PIPES IN EXPOSED AREAS OUTSIDE WALLS AND BELOW CEILING MUST BE COPPER UNLESS NOTED OTHERWISE.
5. DIAGRAM ONLY. ADJUST LAYOUT TO SPECIFIC FLOOR PLAN AND FOLLOW CONNECTIONS PER THIS DIAGRAM
6. INSTALL ALL DEVICES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
7. PREFERRED PIPING DIAGRAM. THE TEMPERATURE AND PRESSURE RELIEF VALVE SETTING SHALL NOT EXCEED PRESSURE RATING OF ANY COMPONENT IN THE SYSTEM.
8. SERVICE VALVES ARE SHOWN FOR SERVICING UNIT. HOWEVER, LOCAL CODES SHALL GOVERN THEIR USAGE.
9. REF. TO DETAIL 13/P-500 FOR ALL LINES TO BE INSULATED.
10. REF. TO PLUMBING FIXTURE SCHEDULE ON SHEET P-101.
11. INSTALL EXPANSION TANK AS CLOSE TO THE CEILING AS POSSIBLE.
12. ALL PIPING BELOW IS TO BE HELD AS TIGHT TO THE BOTTOM OF THE TANKS AS POSSIBLE.

HOT WATER SYSTEM DIAGRAM | 5

NO SCALE | P-400



DRINK STATION PLUMBING | 1

NO SCALE | P-400

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P-400

WATER, GAS, WASTE & VENT RISER DIAGRAMS

PANDA HOME 2600 R4

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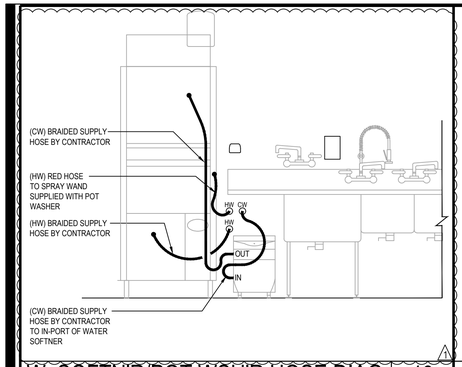
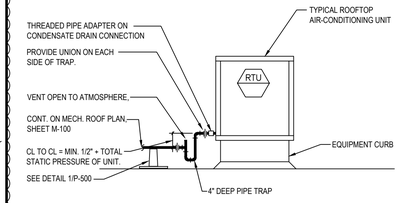


W. SOFTN'R/POT WSH'R HOSE DIAG. 19

Scale: NO SCALE P-500

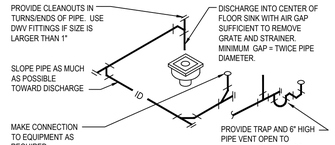
NOTE: IF ROOF DRAIN DOES NOT DRAIN TO PARKING/DRIVE SURFACE, THEN CONDENSATE TO DRAIN TO ROOF DRAIN. IF ROOF DRAINS TO PARKING/DRIVE SURFACE, THEN CONDENSATE TO DRAIN TO FLOOR SINK INSIDE STORE.
MIN. TRAP DEPTH 4". CENTERLINE OUTLET TO CENTERLINE DRAIN 1/2" PLUS UNIT TOTAL STATIC PRESSURE AS A MINIMUM. DISTANCE FROM OUTLET TO TRAP NOT LESS THAN 2 PIPE DIAMETERS.



NOTE:
1. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED. VERIFY CONNECTION LOCATIONS BEFORE INSTALLING PIPE RUNS. DO NOT PROVIDE TRAP ON UNITS WHICH HAVE AN INTERNAL TRAP.
2. DRAIN LINES TO BE TYPE L COPPER.
3. FOR BLOW-THROUGH TYPE EQUIPMENT, ADJUST PTRAP DEPTH TO 1/2" PLUS TOTAL STATIC PRESSURE OF UNIT.

A.C. UNIT CONDENSATE DRAIN 16

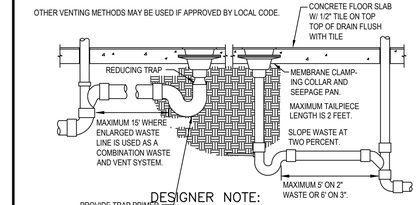
Scale: NO SCALE P-500



NOTE:
1. ROUTE PIPE INCONSPICUOUSLY AND UNOBTRUSIVELY.
2. HANG PIPE AS REQUIRED.
3. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.

INDIRECT DRAIN 12

Scale: NO SCALE P-500

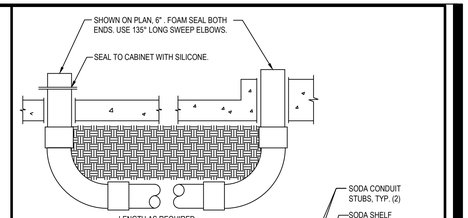


DESIGNER NOTE:
VERIFY IF FLOOR SINKS NEED TO BE RAISED ABOVE FINISH FLOOR

NOTE:
1. LOCATE FLOOR DRAIN/SINK WHERE SHOWN ON ARCHITECTURAL PLAN. IF FLOOR STRUCTURE INTERFERES WITH FLOOR SINK, MOVE SIDEWAYS IF POSSIBLE, OTHERWISE MOVE BACK. ALWAYS LOCATE WHERE EASILY ACCESSIBLE, BUT NOT IN FOOT TRAFFIC.
2. IF SITUATION IS FLOOR SLAB ON GRADE, PROVIDE BACKFILL PER SPECIFICATIONS. IF CONCRETE FLOOR IS NOT EXISTING, SET DRAIN IN PLACE AND POUR AROUND IT, OR BLOCK OUT FLOOR AND SET LATER.
3. IF CONCRETE FLOOR IS EXISTING, SAW CUT OR CORE DRILL IT. SET DRAIN BODY IN PLACE AND POUR AROUND IT.
4. TOP OF THE FLOOR SINK / DRAIN SHOULD BE SET AT THE SAME ELEVATION AS THE SLAB AND THEN DISHED OUT ¼" AT THE DRAIN SLOPING TO NOTHING AT THE 2' RADIUS POINT.
5. IF SITUATION IS FLOOR NOT ON GRADE, REFER TO "FLOOR PENETRATION" DETAIL FOR VENTS.
6. PROVIDE TRAP PRIMER FOR FLOOR DRAINS IN RESTROOMS.

FLOOR DRAIN/SINK 8

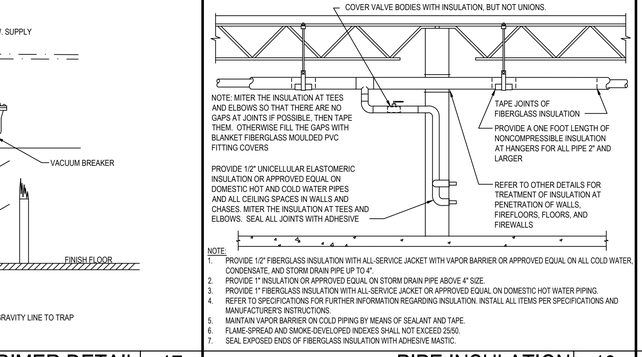
Scale: NO SCALE P-500



NOTE:
1. USE SIX INCH PVC, FITTINGS AND COUPLINGS.
2. USE MINIMUM QUANTITY OF COUPLINGS REQUIRED, SEALED WATER-TIGHT.
3. USE LONG SWEEP ELBOWS AT BOTH ENDS, MINIMUM TWENTY FOUR INCH RADIUS.
4. AVOID ELBOWS IN HORIZONTAL RUN IF AT ALL POSSIBLE.
5. DO NOT USE 45° ELBOWS.

BELOW-GROUND SODA CONDUIT 4

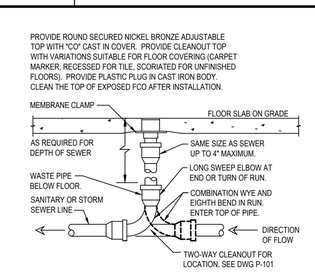
Scale: NO SCALE P-500



NOTE:
1. CONTRACTOR TO COORDINATE WITH PANDA PROJECT MANAGER ON EXACT CONFIGURATION PRIOR TO CONSTRUCTION.
2. PEX LINES FROM MANIFOLD TO EQUIPMENT TO RUN CONCEALED WITHIN WALL AND STUB OUT @ 5 FT A.F.F. WITH COPPER. REFER TO PEX STUB OUT DIAGRAM ON SHEET P-400

BAG-N-BOX DETAIL 15

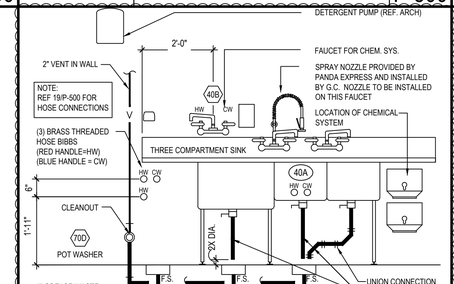
Scale: NO SCALE P-500



NOTE:
1. LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 50' INTERVALS ON STRAIGHT RUNS, AND WHERE SHOWN ON PLANS.
2. PROVIDE BACKFILL PER ARCHITECTURAL SPECIFICATIONS.
3. LOCATE CLEANOUTS WHERE THERE IS 18" CLEAR AROUND.
4. CONSULT LOCAL CODES FOR OTHER FCO REQUIREMENTS.

FLOOR CLEANOUT 11

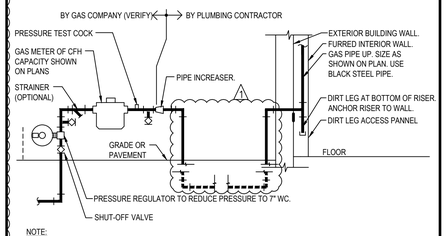
Scale: NO SCALE P-500



NOTE:
1. ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS OR MEET LOCAL CODE REQUIREMENTS.
2. PROVIDE COPPER PIPE, FITTINGS AND CONNECTORS ALL AROUND SINK AND TRAP.

UTILITY/SINK 7

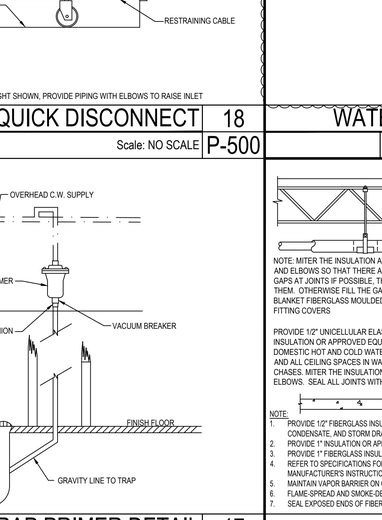
Scale: NO SCALE P-500



NOTE:
1. VERIFY REQUIREMENTS FOR METERING AND PIPING WITH GAS COMPANY.
2. INSTALL OTHER UTILITIES MINIMUM TEN FEET FROM GAS LINE.
3. PLUMBING CONTRACTOR SHALL PAY ALL GAS COMPANY FEES FOR INSTALLATION.
4. USE WELDED OR SCREWED PIPE AND FITTINGS PER PLUMBING SPECS.
5. GAS COMPANY SHALL EXCAVATE, BACKFILL AND REPAIR ANY PAVING OR SOD FOR GAS SERVICE LINE INSTALLATION FROM MAIN TO BUILDING.
6. PAINT EXPOSED METAL GAS PIPE, FITTINGS AND ITEMS SAFETY YELLOW.

GAS SERVICE 3

Scale: NO SCALE P-500



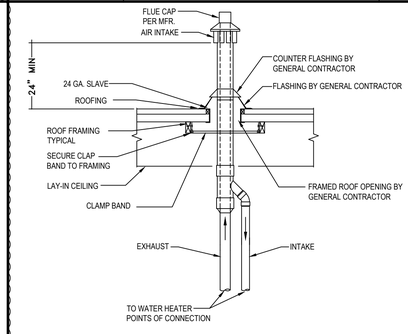
NOTE:
1. IF UTILITY IS NOT AT FULL HEIGHT SHOWN, PROVIDE PIPING WITH ELBOWS TO RAISE INLET

QUICK DISCONNECT 18

Scale: NO SCALE P-500

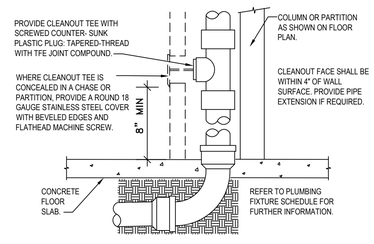
WATER HAMMER ARRESTERS 14

Scale: NO SCALE P-500



CONCENTRIC VENT DETAIL 10

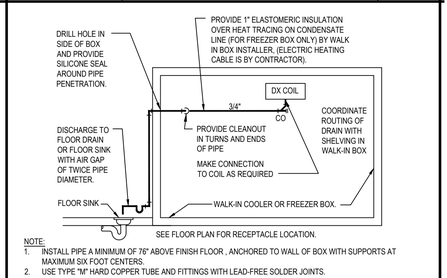
Scale: NO SCALE P500



NOTE:
1. PROVIDE WCO WHERE SHOWN ON PLAN. LOCATE ABOVE FIXTURE FLOOD RIM .
2. CONSULT LOCAL CODES FOR OTHER WCO REQUIREMENTS.

WALL CLEANOUT 6

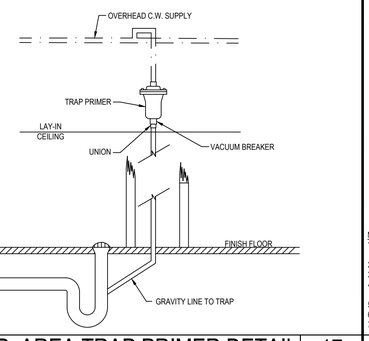
Scale: NO SCALE P-500



NOTE:
1. INSTALL PIPE A MINIMUM OF 76" ABOVE FINISH FLOOR , ANCHORED TO WALL OF BOX WITH SUPPORTS AT MAXIMUM SIX FOOT CENTERS.
2. USE TYPE "M" HARD COPPER TUBE AND FITTINGS WITH LEAD-FREE SOLDER JOINTS.
3. SLOPE HORIZONTAL PIPE AT MINIMUM TWO PERCENT.
4. KEEP DRAIN LINE FROM EVAPORATOR AS HIGH AS POSSIBLE UNDER THE EVAPORATOR BACK TO THE WALL TO MAXIMIZE SHELF SPACE UNDER THE COIL.
5. REFER TO LOCAL CODE FOR INDIRECT DRAIN REQUIREMENTS.
6. INDIVIDUAL CONDENSATE LINES FROM EACH EVAPORATOR TO BE ¾" UNTIL JOINED. CONDENSATE LINE TO BE 1" AFTER UNION.

WALK - IN BOX CONDENSATE DRAIN 2

Scale: NO SCALE P-500



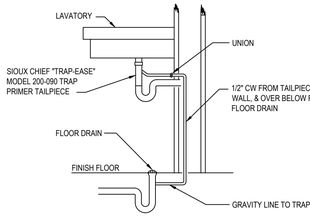
PREP. AREA TRAP PRIMER DETAIL 17

Scale: NO SCALE P-500

NOTE:
1. PROVIDE 1/2" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET WITH VAPOR BARRIER OR APPROVED EQUAL ON ALL COLD WATER, CONDENSATE, AND STORM DRAIN PIPE UP TO 4"
2. PROVIDE 1" INSULATION OR APPROVED EQUAL ON STORM DRAIN PIPE ABOVE 4" SIZE.
3. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET OR APPROVED EQUAL ON DOMESTIC HOT WATER PIPING.
4. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ALL ITEMS PER SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS.
5. MAINTAIN VAPOR BARRIER ON COLD PIPING BY MEANS OF SEALANT AND TAPE.
6. FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50.
7. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC.

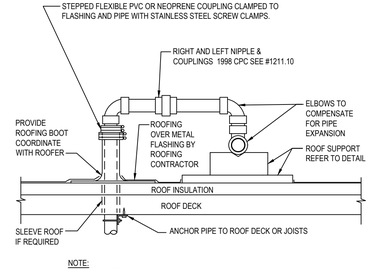
PIPE INSULATION 13

Scale: NO SCALE P-500



RESTROOM TRAP PRIMER DETAIL 9

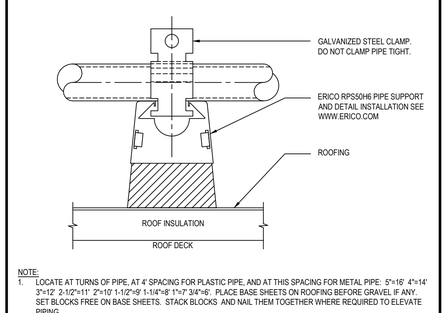
Scale: NO SCALE P-500



NOTE:
1. REFER TO PLANS FOR PIPE SIZE(S) AND LOCATION(S).
2. WELDED OR SCREWED FITTINGS AS SPECIFIED FOR PIPE SIZE.
3. LOCATE PENETRATION MINIMUM 18" FROM ADJACENT WALLS.

GAS PIPE ROOF PENETRATION 5

Scale: NO SCALE P-500



NOTE:
1. LOCATE AT TURNS OF PIPE, AT 4' SPACING FOR PLASTIC PIPE, AND AT THIS SPACING FOR METAL PIPE: 5"=16' 4"=14' 3"=12' 2-1/2"=11' 2"=10' 1-1/2"=9' 1-1/4"=8' 1"=7' 3/4"=6'. PLACE BASE SHEETS ON ROOFING BEFORE GRAVEL IF ANY. SET BLOCKS FREE ON BASE SHEETS. STACK BLOCKS AND NAIL THEM TOGETHER WHERE REQUIRED TO ELEVATE PIPING.
2. PRIMER COAT AND PAINT EXTERIOR GAS PIPE SAFETY YELLOW COLOR.
3. 18"x18"x1/2" THICK ROOF WALKWAY MATERIAL FOR BASE SHEET. ("CAREY-TRED" OR PER ARCHITECTURAL SPECIFICATIONS.)

ROOF PIPE SUPPORT 1

Scale: NO SCALE P-500

ISSUE FOR BID 01-30-23

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

1	OWNER REVISIONS	01-30-23

ISSUE DATE:

ISSUE FOR PERMIT	10-20-22
ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

MPW
MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4097 FAX

SCOTT C. WEBB
LICENSED ENGINEER
AGENT
AGENCY NO. AA-C010409
STATE OF TENNESSEE
1-30-23

PANDA EXPRESS
PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

P-500

PLUMBING DETAILS

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-23

PACKAGED ROOF TOP UNIT SCHEDULE

(LENNOX MODELS TO BE SPECIFIED)
(LO NoX in California)

UNIT SYMBOL		RTU 1 (NEW)	RTU 2 (NEW)	RTU 3 (NEW)
LOCATION		ROOF	ROOF	ROOF
BLOWER	SA CFM (TONS)/ OA CFM	2,400 (6-TON)/ 500	4,000 (10-TON)/ 750	4,000 (10-TON)/ 750
	TSP (IN W.G.)	0.97"	1.39"	1.39"
COOLING	TOTAL (BTU/HR)	76,200	122,700	123,200
	SENSIBLE (BTU/HR)	50,600	87,100	87,000
	AMBIENT (F)	93.5	93.5	93.5
	COIL ENTERING	69.9 WB/79.5 DB	66.7 WB/79.1 DB	67.2 WB/79.5 DB
HEATING (NATURAL GAS BTU/HR)		STAGE (1) 81,000 STAGE (2) 108,000	STAGE (1) 117,000 STAGE (2) 180,000	STAGE (1) 117,000 STAGE (2) 180,000
ELECTRICAL	POWER SUPPLY	208V/3Ph/60HZ	208V/3Ph/60HZ	208V/3Ph/60HZ
	COMPRESSOR (RLA)	17.6	(2) 33.2	(2) 33.2
	CONDENSER MOTOR (FLA)	(1) 2.8	(1) 5.0	(1) 5.0
	EVAPORATOR MOTOR (FLA)	4.4	8.6	8.6
	MIN. CIRCUIT AMPACITY	30, HACR = 45	52, HACR = 60	52, HACR = 60
PANDA NATIONAL ACCOUNT. NO SUBSTITUTES ALLOWED. FOR PRICING AND ORDERS EMAIL LennoxNationalAccounts@Lennoxind.com OR CALL 800-367-6285 EXT #1 FOR CUSTOMER SERVICE. EXT #2 FOR TECHNICAL SUPPORT. TECH SUPPORT EMAIL FOR INSTALLATION QUESTIONS NATS@Lennoxind.com ALL INQUIRIES SHOULD INCLUDE "PANDA EXPRESS, STORE # AND CITY/STATE"		BY LENNOX MODEL LGT072H4E DOWN DISCHARGE COMPLETE WITH 14" ROOF MOUNT CURB, ELECTRONIC PROGRAMMABLE THERMOSTAT, SINGLE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF. OPER. WT. : 830 LBS APPROX. IEER=17.0, EER=12.1	BY LENNOX MODEL LGT120H4E DOWN DISCHARGE COMPLETE WITH 14" ROOF MOUNT CURB, ELECTRONIC PROGRAMMABLE THERMOSTAT, SINGLEL ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF. OPER. WT. : 1,427 LBS APPROX. IEER=15.5, EER=12.0	BY LENNOX MODEL LGT120H4E DOWN DISCHARGE COMPLETE WITH 14" ROOF MOUNT CURB, ELECTRONIC PROGRAMMABLE THERMOSTAT, SINGLEL ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF. OPER. WT. : 1,427 LBS APPROX. IEER=15.5, EER=12.0

ALL ITEMS RELATED TO HVAC SYSTEM SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. CONTACT LENNOX REPRESENTATIVE ABOVE.
- THERMOSTATS: REMOTE SENSOR TYPE, 24/7 PROGRAMMABLE AND CAPABLE OF OPERATING ROOFTOP UNITS AND ACCESSORIES
- DUCT MOUNTED SMOKE DETECTORS: IONIZATION TYPE/UL LISTED

NOTE:
1. UNIT WEIGHTS ABOVE INCLUDE ACCESSORIES AND CURB.
2. FACTORY COATED EVAPORATOR COIL ON ALL UNITS
3. FACTORY COATED CONDENSER COIL ONLY WITHIN 5 MILES OF SALTWATER COASTLINE
4. SINGLE ENTHALPY ECONOMIZER, HIGH PERFORMANCE, LOW-LEAK DAMPERS, W/ GRAVITY EXHAUST
5. TITLE 24 COMPLIANT
6. RETURN AIR SMOKE DETECTOR (FIELD INSTALLED)
7. FACTORY HINGED ACCESS DOORS
8. MERV 8 PLEATED FILTERS
9. MULTI SPEED (MSAV) BLOWER MOTORS
10. STANDARD 14" ROOF CURB
11. COIL GUARDS (FIELD INSTALL)
12. FACTORY DISCONNECT
13. FACTORY GFCI (FIELD WIRED)
14. LENNOX COMMERCIAL CS7500 THERMOSTAT WITH REMOTE SENSOR (FIELD WIRED)

EXHAUST FAN SCHEDULE

FAN NO.		EF 1	EF 2	EF 3
LOCATION		ROOF	ROOF	ROOF
AREA SERVED		KITCHEN GREASE EXHAUST HOOD #1	KITCHEN GREASE EXHAUST HOOD #2	RESTROOMS
FAN DUTY		AIR EXHAUST	AIR EXHAUST	AIR EXHAUST
FAN TYPE		CENTRIFUGAL DIRECT DRIVE	CENTRIFUGAL DIRECT DRIVE	CENTRIFUGAL DIRECT DRIVE
FAN ARRANGEMENT		UPBLAST	UPBLAST	DOWNBLAST
MIN. WHEEL DIAMETER		-	-	-
PERFORMANCE	C.F.M.	3,400	2,900	450
	E.S.P.	1.59"	1.178"	0.25"
	B.H.P.	1.97	1.24	0.081
	FAN R.P.M.	1,399	1,199	1,220
MOTOR	MOTOR H.P.	3.0	2.0	0.25
	ELEC. CHARACTERISTICS	208V/3PH/60HZ	208V/3PH/60HZ	115V/1PH/60HZ
	MOTOR R.P.M.	1725	1725	-
	MOTOR SPECIAL FEATURES	OPEN DRIP-PROOF	OPEN DRIP-PROOF	OPEN DRIP-PROOF
ACCESSORIES		1. VENTED ROOF CURB 2. HINGED AND CHAINED FAN INSTALLATION FOR DUCT ACCESS	1. VENTED ROOF CURB 2. HINGED AND CHAINED FAN INSTALLATION FOR DUCT ACCESS	1. ROOF CURB 2. BACKDRAFT DAMPER
MANUFACTURER		CAPTIVEAIRE MODEL:DU180HFA WT. 189 LBS	CAPTIVEAIRE MODEL:DU180HFA WT. 188 LBS	CAPTIVEAIRE MODEL:DR12HFA WT. 49 LBS

NOTES:

1. KITCHEN EXHAUST FANS SHALL BE ELECTRICALLY INTERLOCKED WITH MAKE-UP AIR UNIT AND ROOFTOP UNITS.
2. FOR WIRING DIAGRAM SEE 5/M-501

HVAC CONTROL SETTINGS

EACH HVAC UNIT SHALL BE PROVIDED WITH CONTROLS AS FOLLOWS:

THERMOSTAT: LENNOX COMMERCIAL PROGRAMMABLE THERMOSTAT WITH REMOTE TEMPERATURE SENSOR. SEE SHEET M-100 FOR THERMOSTAT AND SENSOR LOCATIONS.

ALL THERMOSTATS SHALL HAVE MANUAL OVERRIDE.

EACH UNIT CONTROL SHALL BE SET UP INITIALLY AS FOLLOWS:

CONTRACTOR SHALL DETERMINE OCCUPIED PERIOD FROM OWNER.

FAN OPERATION SHALL BE CONTINUOUS DURING OCCUPIED PERIOD AND CYCLE WITH COOLING/HEATING DURING UNOCCUPIED PERIOD.

PROGRAMMED SETPOINTS (FOR EACH THERMOSTAT):
COOLING OCCUPIED: 75°F.
COOLING UNOCCUPIED: 85°F.
HEATING OCCUPIED: 68°F.
HEATING UNOCCUPIED: 50°F.

NOTE: DEVIATIONS FROM THE ABOVE MAY RESULT IN UNACCEPTABLE AIR QUALITY, COMFORT AND/OR ENERGY CONSUMPTION.

AIR CURTAIN SCHEDULE

EQUIP.	MFR/MODEL	DESCRIPTION
M8A	MARS STD242-1U-OB	(2)UNHEATED AIR CURTAIN (SERVICE DOOR). 115/1/60 WEIGHT 65 LBS. PROVIDED BY PANDA EXPRESS
M9A	QUICK-SERV CF-25	AIR CURTAIN (WINDOW NON-HEATED). 120/1/60, 20 AMP WEIGHT 30 LBS. REFERENCE ARCHITECTURAL WINDOW SCHEDULE FOR HEATED OR NON-HEATED UNIT. PROVIDED BY GC.

NOTES:
INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

MA-1 CONTROL SETTINGS

EACH UNIT CONTROL SHALL BE SET UP INITIALLY AS FOLLOWS:

FAN OPERATION SHALL BE CONTINUOUS DURING COOKING OPERATION INTERLOCK WITH KITCHEN EXHAUST FANS. REFER TO HOOD DRAWINGS.

PROGRAMMED SETPOINTS :
COOLING : 85°F.
HEATING : 55°F.

MECHANICAL SPECIFICATIONS

1. WORK INCLUDES INSTALLATION OF HVAC SYSTEMS, INCLUDING GREASE EXHAUST FANS AND MAKE-UP AIR UNIT FOR KITCHEN HOODS, SPACE HEATING/AIR CONDITIONING SYSTEMS, SUPPLY, RETURN, EXHAUST, AND GREASE EXHAUST DUCTWORK, GRILLES, REGISTERS, DIFFUSERS, COMPLETE CONTROLS SYSTEM, INTERLOCK WIRING FOR OPERATION OF KITCHEN HOODS, EXHAUST FANS, AND MAKE-UP AIR UNIT, DUCT INSULATION, AND RELATED ITEMS NECESSARY FOR A COMPLETE FUNCTIONING SYSTEM AS INDICATED ON THE PLANS. FURNISH ALL NEW MATERIALS AND EQUIPMENT UNLESS NOTED OTHERWISE (U.N.O.).
2. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND REQUIRED EQUIPMENT. DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. AS REQUIRED, REFER TO ARCHITECTURAL AND MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. FURNISH AND INSTALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND EQUIPMENT SHOWN ON PLANS.
3. CODE COMPLIANCE: ALL WORK COVERED BY THIS SECTION SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
4. COORDINATE WORK WITH OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS AND OWNER REQUIREMENTS. PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR INSTALLATION AND/OR TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK. WORK SHALL BE PERFORMED BY EXPERIENCED TRADESMEN AND THEIR WORK SHALL BE OF HIGH STANDARD ACCEPTABLE TO THE OWNER.
5. DUCTWORK: DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED AND INSULATED AS PROVIDED IN THE INT'L ENERGY AND MECHANICAL CODES. SHEET METAL SHALL BE IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS. SHEET METAL SHALL BE GALVANIZED OF LOCK-FORMING QUALITY, ASTM A-525. UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON DRAWINGS ARE NET INSIDE CLEAR DIMENSIONS ON LINED DUCTS OR SHEET METAL DIMENSIONS ON UNLINED DUCTS. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. ROUND RIGID DUCTWORK SHALL CONFORM TO SMACNA TABLE 3-2.
6. INSTALL DUCT HIGH AS POSSIBLE WITHIN JOIST SPACE. CONSULT ARCHITECT AND ENGINEER FOR ALTERNATE ROUTING IF CONFLICT OCCURS.
7. SEAL ALL TRANSVERSE AND LONGITUDINAL DUCT SEAMS AIR-TIGHT. PROVIDE TURNING VANES AT ALL ELBOWS OR OFFSETS EXCEEDING 30 DEGREES.
8. GREASE EXHAUST SYSTEM: ALL GREASE EXHAUST DUCTS SHALL BE PREFABRICATED CAPTIVEAIRE DOUBLE WALL GREASE DUCT. PROVIDE RATED ACCESS DOORS AT ALL ELBOWS AND OFFSETS NECESSARY FOR COMPLETE CLEANING OF GREASE DUCT. PROVIDE MINIMUM 30"x30" UNOBSTRUCTED ACCESS OR ROUTE FROM THE CEILING TO EACH ACCESS DOOR. DO NOT BLOCK ACCESS WITH PLUMBING, ELECTRICAL OR HVAC OBSTRUCTIONS. REFER TO SHEETS M-400 TO M-410.
9. DUCT INSULATION: PROVIDE DUCT WRAP FOR ALL DUCTS ABOVE CEILING, INCLUDING VERTICAL, HORIZONTAL, RIGID AND FLEXIBLE DUCTS, EXCLUDING PREFABRICATED PREINSULATED DUCTS AND GREASE DUCTS. DUCT WRAP SHALL BE JOHNS MANVILLE MICROLITE OR EQUAL WITH FOIL/SCRIM/KRAFT, 1 IN THICKNESS, 1.5 POUNDS/FT3 DENSITY. DUCT WRAP SHALL BE BONDED GLASS FIBERS IN THERMOSETTING RESIN MEETING NFPA 90A, WITH K VALUE NOT TO EXCEED 0.23 AT 75 DEGREES F. FLAME SPREAD AND SMOKE DEVELOPED RATINGS SHALL NOT EXCEED 25/50. APPLY 100% ADHESIVE COVERAGE TO SHEET METAL DUCTWORK. PROVIDE ADDITIONAL MECHANICAL FASTENERS ON DUCTS OVER 12" WIDE OR 16" HIGH. MECHANICAL FASTENERS SHALL BE "GRIPNAIL" OR WELDED PIN AND SPEED CLIPS SPACED PER SMACNA STANDARDS.
10. FLEX DUCT: PROVIDE FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER/VAPOR BARRIER. FLEX DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50 AND SHALL BE RATED FOR 2" W.C. PRESSURE AND 0 TO 250 DEGREE TEMPERATURE. FLEX DUCT MAXIMUM ALLOWED LENGTH TO BE PER LOCAL CODE.
11. PROVIDE INSULATION APPLIED TO COMPLETE BACKPAN OF AIR DEVICES.
12. ACCESS DOOR: PROVIDE HINGED ACCESS PANELS IN DUCTWORK WHERE SHOWN AND AS REQUIRED FOR ACCESS TO DAMPERS OR EQUIPMENT. PROVIDE INSULATED ACCESS DOORS IN INSULATED DUCTWORK.
13. AUTOMATIC TEMPERATURE CONTROL: CONTRACTOR TO PROVIDE AND INSTALL 24/7 PROGRAMMABLE THERMOSTATS AND REMOTE SENSORS.
14. KITCHEN HOOD EQUIPMENT INTERLOCK: PROVIDE ALL INTERLOCK AND CONTROL WIRING FOR KITCHEN HOOD SYSTEMS, WHICH INCLUDES EF1, EF2, MAU1 AND ANSUL SYSTEM SHUT DOWN INTERLOCK TO MAKE-UP AIR FAN. UPON ACTIVATION OF ANSUL SYSTEM, MAKE-UP AIR FAN SHALL BE DEACTIVATED. PROVIDE ALL NECESSARY CONTROLS AND WIRING FOR A COMPLETE AND OPERABLE SYSTEM. INTERLOCK GREASE EXHAUST FANS AND MAKE-UP AIR UNIT TO START SIMULTANEOUSLY FROM SWITCH PROVIDED AT HOOD.
15. TEST AND ADJUST EACH PIECE OF EQUIPMENT AND EACH SYSTEM AS REQUIRED TO ASSURE PROPER AIR BALANCE AND OPERATION. PROVIDE A CERTIFIED AIR BALANCE REPORT TO OWNER SHOWING DESIGN AND MEASURED AIR VOLUMES, STATIC PRESSURES, FAN RPMS, ETC. AIR BALANCE CONTRACTOR SHALL ADJUST SYSTEMS TO MINIMIZE NOISE AND VIBRATION, AND TO ASSURE PROPER FUNCTION OF CONTROLS, MAINTENANCE OF TEMPERATURE AND OPERATION. GENERAL CONTRACTOR TO OBTAIN ALL INSPECTIONS REQUIRED BY LOCAL CODE AND GUARANTEE WORK AND INSTALLATION FOR ONE YEAR AFTER ACCEPTANCE BY OWNER. GENERAL CONTRACTOR TO FURNISH OWNER WITH TWO COMPLETE SETS OF AS-BUILT DRAWINGS INDICATING ALL INSTALLED WORK, INCLUDING ALL CONTROL WIRING DIAGRAMS AND INTERLOCK FOR SYSTEM OPERATION.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ECONOMIZERS INCLUDING INSTALLATION OF ALL NECESSARY SENSORS AND CONNECTIONS TO THERMOSTAT. PROVIDE SUPPORT OF ECONOMIZERS PER MANUFACTURER'S REQUIREMENTS AND TEST FOR PROPER OPERATION PRIOR TO FINAL TEST AND BALANCE.

MAKE-UP AIR UNIT SCHEDULE

MARK	MFR/ MODEL	LOCATION	SERVICE AREA	GAS HEAT	TYPE	COOLING	CFM	ESP	MOTOR	REMARKS
MA-1	CAPTIVEAIRE A3-D.500-24D-MPU	ROOF-TOP	KITCHEN HOOD #1 & #2	INPUT: 539,830 BTHU OUTPUT: 496,644	DIRECT FIRE GAS HEATED, DX COOLED SUPPLY, DOWN DISCHARGE	DUAL CIRCUIT 5/5 MODULAR PACKAGED COOLING OPTION	5,040	0.90"	7.5 HP 208V/3PH/60HZ	GAS FIRED MAKEUP AIR UNIT WITH (2) 24ABB360 5 TON, DUAL CIRCUIT AIR COOLED CONDENSING UNITS. REFER TO SHEET M-402 FOR INFORMATION. 4-5 WEEK LEAD TIME. SHIPPING INCLUDED IN PRICE. SHIPS FROM TYLER, TX. SHIPS SEPARATE, FREIGHT INCLUDED. NOTE: FACTORY OPTIONS SHALL INCLUDE NONCORROSIVE COATING AND HAIL GUARD PROTECTION.

DIFFUSER & GRILLE SCHEDULE

DESIGNATION	MANUFACTURER	MODEL NO	TYPE	COLOR	NOM NECK SIZE	NOM FACE SIZE	FRAME TYPE	NC MAX	REMARKS
A	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE	26 WHITE	PER PLAN	24" x 24"	LAY-IN T-BAR	< 30	INSULATION BLANKET FOR BACKPAN, CONTRACTOR FURNISHED ROUND NECK ADAPTER
B	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE	26 WHITE	PER PLAN	20" x 20"	SURFACE	< 30	WITH 20X20 SURFACE FRAME, REQUIRES A 20.5"X20.5" CEILING OPENING, INSULATION BLANKET, D-100 RADIAL DAMPER
C	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE	26 WHITE	PER PLAN	12" x 12"	SURFACE	< 30	WITH12X12 SURFACE FRAME, REQUIRES A 12.5"X12.5" CEILING OPENING, INSULATION BLANKET, D100 RADIAL DAMPER
D	TITUS	PAR-3	PERFORATED RETURN	26 WHITE	22" x 22"	24" x 24"	LAY-IN T-BAR	< 35	CONTRACTOR FURNISHED INSULATE RETURN BOX FOR CONNECTING FLEX DUCT
E	TITUS	PAR-3	PERFORATED EXHAUST	26 WHITE	PER PLAN	12" x 12"	SURFACE		WITH12X12 SURFACE FRAME, REQUIRES A 12.5"X12.5" CEILING OPENING, D100 RADIAL DAMPER
F	TITUS	PAR-3	PERFORATED RETURN	26 WHITE	22" x 22"	24" x 24"	LAY-IN T-BAR	< 35	CONTRACTOR FURNISHED INSULATE RETURN BOX FOR CONNECTING FLEX DUCT
H	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE	26 WHITE	PER PLAN	24" x 24"	LAY-IN T-BAR	< 30	WITH INSULATION BLANKET, BALANCE USING MANUAL VOLUME DAMPER AT BRANCH DUCT
J	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE	26 WHITE	PER PLAN	24" x 24"	LAY-IN T-BAR	< 30	AG95 OBD, INSULATION BLANKET FOR BACKPAN, CONTRACTOR FURNISHED ROUND NECK ADAPTER
K	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE	26 WHITE	PER PLAN	12" x 12"	SURFACE	< 30	WITH12X12 SURFACE FRAME, REQUIRES A 12.5"X12.5" CEILING OPENING, INSULATION BLANKET, D100 RADIAL DAMPER
L	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE	26 WHITE	PER PLAN	12" x 12"	SURFACE	< 30	WITH12X12 SURFACE FRAME, REQUIRES A 12.5"X12.5" CEILING OPENING

NOTE: PROVIDE FACTORY INSTALLED BACK PAN INSULATION ON AIR DEVICES.
HVAC CONTRACTOR IS TO PURCHASE ALL AIR DEVICES FROM PANDA APPROVED NATIONAL ACCOUNT VENDOR THERMAIR SYSTEMS INC.
PLEASE CONTACT RON CAMPTON AT 602-705-5010 OR EMAIL ronc@thermairsystems.com

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	ABV	ABOVE
	AFF	ABOVE FINISHED FLOOR
	CLG	CEILING
	DN	DOWN
		DUCT SECTIONS (SUPPLY, EXHAUST, RETURN)
		FLEXIBLE DUCT
	MVD	MANUAL VOLUME DAMPER
	OBD	OPPOSED BLADE DAMPER
	MFR	MANUFACTURER
	MIN	MINIMUM
	OSA	OUTSIDE AIR
		ROUND RIGID DUCTWORK
	TSP	TOTAL STATIC PRESSURE
		TURNING VANES
1		CONSTRUCTION NOTES
EF 1		MECHANICAL EQUIPMENT DESIGNATION
S		SMOKE DETECTOR
T1		THERMOSTAT / UNIT
R1		REMOTE SENSOR / UNIT

AIR BALANCE SCHEDULE

ITEM	SUPPLY AIR	RETURN AIR	MAKE-UP AIR	EXHAUST
MAU1	0	0	+5,040	0
EF-1	0	0	0	-3,400
EF-2	0	0	0	-2,900
RTU-1	+2,400	-1,900	500	0
RTU-2, RTU-3	+4,000, +4000	-3,250, -3,250	2@750 EA	0
EF-3	-	-	-	-450
TOTAL	+10,400	-8,400	+7,040	-6,750

BUILDING PRESSURE = +290 CFM

BALANCE TOLERANCES AS FOLLOWS:
KITCHEN EXHAUST HOODS: 0% TO +10%
OUTDOOR AIR: 0% TO +10%
SUPPLY & RETURN DIFFUSERS: ±10%
TOILET EXHAUST: ±10%
BALANCE RTU SUPPLY AND RETURN PRIOR TO TURNING ON EXHAUST FANS.
KITCHEN EXHAUST FANS SHALL BE BALANCED WITH VELOCITY MATRIX OR A 4" ANEMOMETER

OSA VENTILATION CALCULATION-IMC

AREA TYPE	TOTAL AREA (FT²)	OCCUPANCY DENSITY (PEOPLE/FT.²)	TOTAL OCCUPANTS	OSA REQ.'D PER SQ.FT. (CFM)	OSA REQ.'D PER PERSON (CFM)	OSA REQ.'D FOR THIS OCCUPANCY CLASSIFICATION (CFM)
HALLWAYS	53	-	-	0.06	-	+3
STORAGE	0	-	-	0.15	-	0
KITCHEN	697	20/1000	14	0.12	7.5	+189
DINING FAST FOOD	956	100/1,000	96	0.18	7.5	+892

CALCULATION PER IMC TABLE 403.3.1.1
VENTILATION SHALL BE BALANCED BY AN APPROVED METHOD. A BALANCE REPORT SHALL VERIFY THAT THE VENTILATION SYSTEM IS CAPABLE OF SUPPLYING THE AIRFLOW RATES REQUIRED BY SECTION 403. SAID REPORT MUST BE PRESENTED TO THE ADMINISTRATIVE AUTHORITY.

TOTAL OSA REQUIRED (CFM)	1,084
TOTAL OSA PROVIDED (CFM)	2,000

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PANDA EXPRESS
CHINESE KITCHEN

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

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ISSUE FOR PERMIT	10-20-22
ISSUE FOR BID	01-30-23

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PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

MPW
MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4087 FAX

SCOTT C. WEBB
REGISTERED
NO. 0013408
STATE OF TENNESSEE
1-30-23

PANDA EXPRESS

PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

M-000

MECHANICAL NOTES
SPECIFICATIONS & SCHEDULES

PANDA HOME 2600 R4

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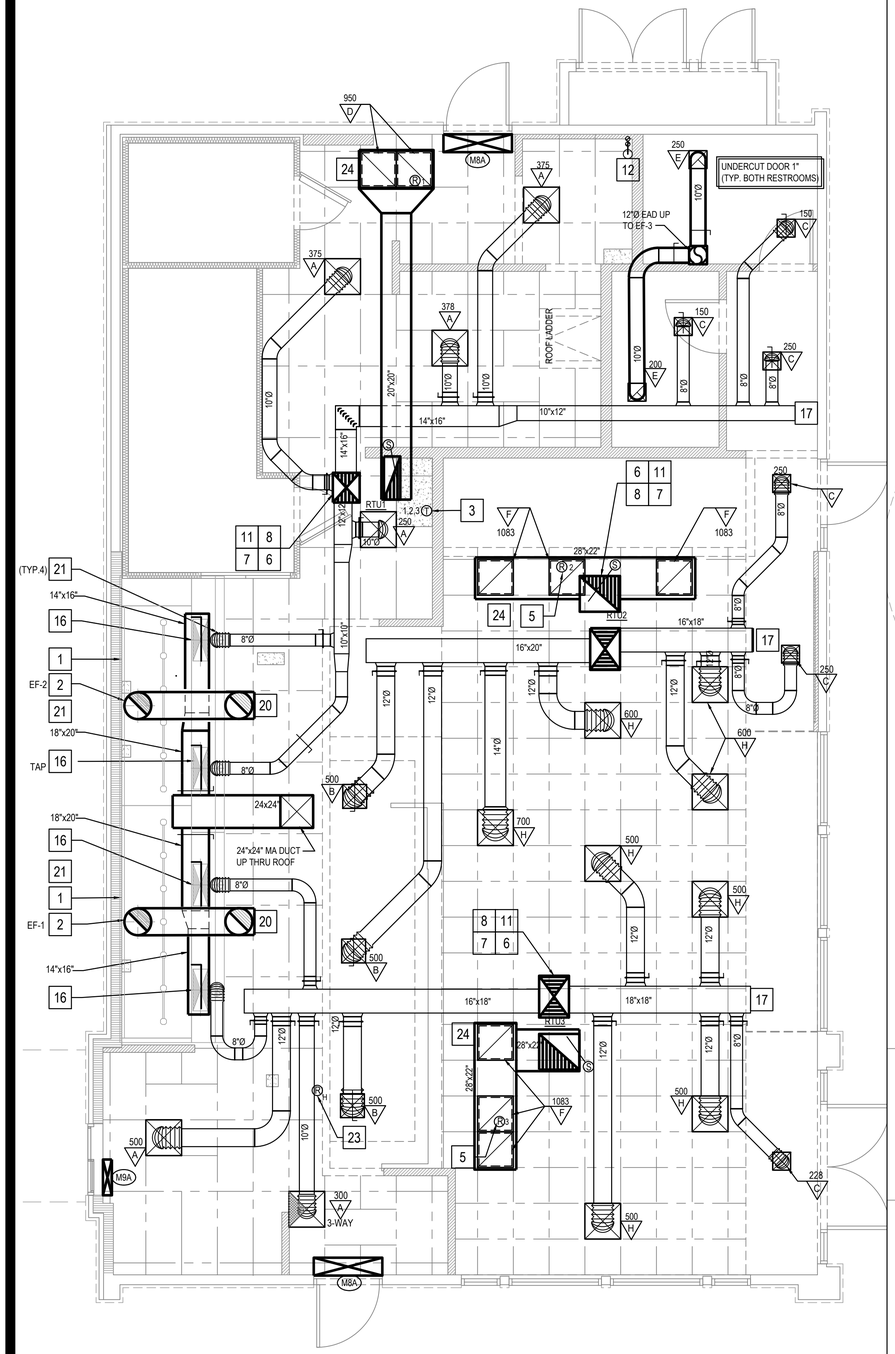
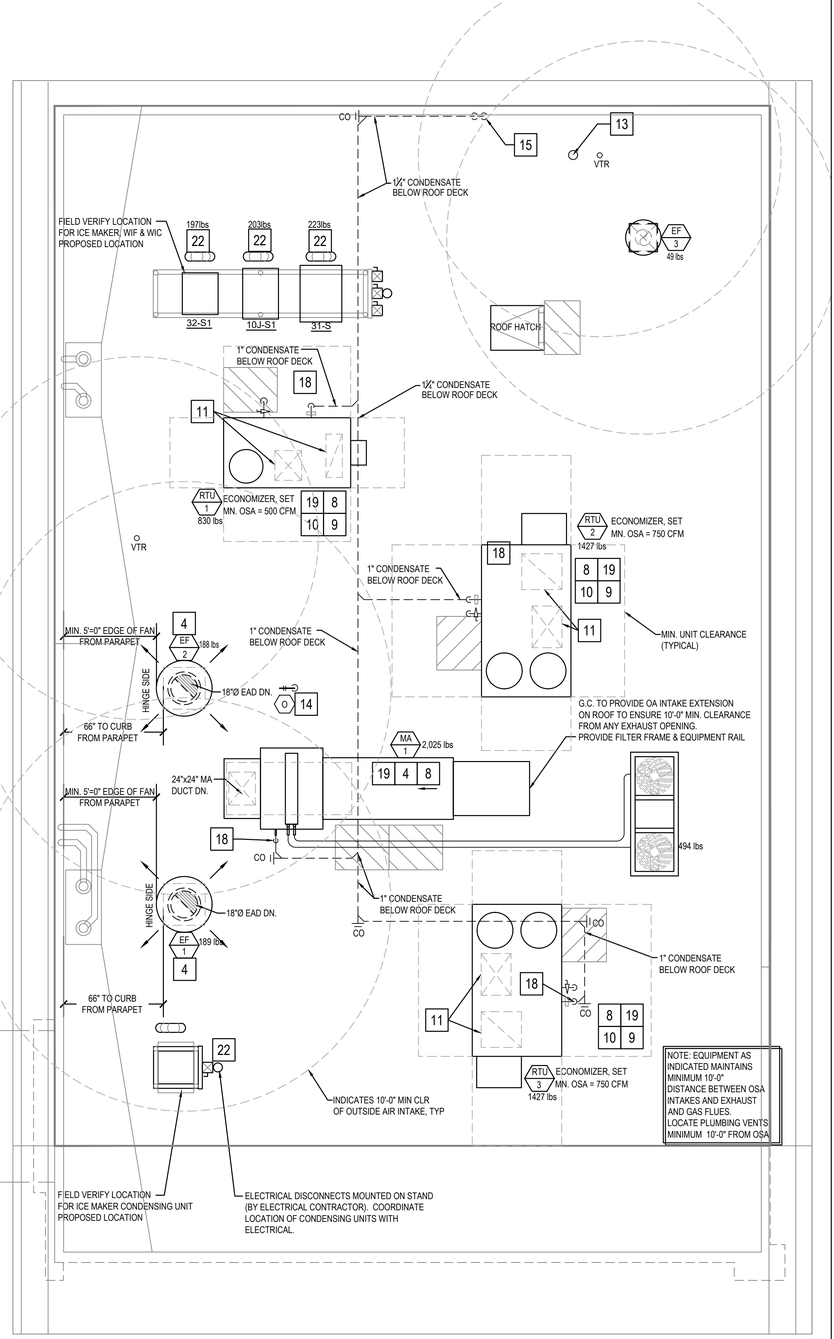


HVAC FLOOR PLAN 2

Scale:1/4"=1'-0" M-100



HVAC ROOF PLAN 1

Scale:1/4"=1'-0" M-100

MECHANICAL KEY NOTES:

1. INSTALL GREASE EXHAUST HOODS FURNISHED BY PANDA. HOOD SHALL BE ONE CAPTIVEAIRE 4824-ND HOOD EXHAUSTING 3,450 CFM. SUPPORT FROM STRUCTURE ABOVE WITH UNISTRUT AND ALL THREAD ROD. MOUNT HOOD PER LOCAL CODE REQUIREMENTS. REFER TO PLAN FOR HOOD CONNECTIONS. SEE CODE COMPLIANCE DRAWINGS ON SHEET M-500 AND CAPTIVEAIRE HOOD DRAWINGS FOR ADDITIONAL REQUIREMENTS. (TWO SECTIONS TOTAL).
2. INSTALL MANUFACTURED CAPTIVEAIRE 18" GREASE EXHAUST DUCT, ROUTE ON TOP OF MAKE UP AIR DUCT, FROM INLET OF ROOF MOUNTED GREASE EXHAUST FAN, CONNECT TO EXHAUST HOOD COLLAR. FIELD VERIFY. SEAL DUCT TO THE ROOF CURB WITH FIRE CAULKING . SEE HOOD DETAIL DRAWINGS ON SHEET M-500 AND CAPTIVEAIRE DRAWINGS ON SHEETS M-400 TO M-411.
3. MOUNT THERMOSTAT AT MANAGER STATION. REFER TO DETAIL #1 ON SHEET E-200. SEE DWG FOR EXACT LOCATION OF REMOTE SENSOR. SEE ROOFTOP UNIT SCHEDULE AND TEMPERATURE CONTROL DIAGRAM DETAIL 5 ON SHEET M-501 FOR ADDITIONAL INFORMATION.
4. INSTALL GREASE EXHAUST FAN WITH CURB (EF-1 AND EF-2) AND MAKE UP AIR (MA-1) FURNISHED BY PANDA. COORDINATE LOCATION OF UNIT WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
5. PROVIDE AND INSTALL A REMOTE SENSOR FOR ROOFTOP UNIT AT THIS LOCATION. MOUNT REMOTE SENSOR IN RETURN AIR DUCTWORK. SEE TEMPERATURE CONTROL DIAGRAM ON SHEET M-501 FOR ADDITIONAL INFORMATION.
6. PROVIDE AND INSTALL DUCT MOUNTED SMOKE DETECTOR AT MAIN SUPPLY AIR DUCT PER UMC, SEC. 609. OR AT RETURN AIR DUCT PER IMC, SECTION 606.2.1. DETECTORS SHALL BE INTERLOCKED TO SHUT DOWN ROOFTOP UNITS UPON DETECTION OF SMOKE. PROVIDE ALL CONTROL WIRING NECESSARY TO PERFORM THIS OPERATION.
7. PROVIDE FLEXIBLE CONNECTION BETWEEN UNIT, ROUTE DUCT THRU ROOF CURB AND TRUSS.
8. FOR GAS OR WATER CONNECTION, SEE PLUMBING DRAWINGS.
9. PROVIDE FABRICATED CURB PER MANUFACTURERS REQUIREMENTS AND COORDINATE EXACT LOCATION OF UNIT IN FIELD. SHIM ROOF CURB LEVEL FOR PROPER CONDENSATE DRAINAGE.
10. FURNISH AND INSTALL ALL TEMPERATURE CONTROL WIRING FROM THE UNIT TO THE THERMOSTAT OR OTHER CONTROL DEVICES.
11. FULL SIZE SA AND RA UP TO RTU. TRANSITION AS REQUIRED TO RTU INLET/OUTLET SIZE.
12. PVC COMBINATION VENT AND COMBUSTION AIR PIPING PROVIDED AND INSTALLED BY PLUMBING FOR SEALED COMBUSTION WATER HEATER. REFER TO PLUMBING PLANS.
13. WATER HEATER CONCENTRIC VENT TERMINATION. REFER TO PLUMBING PLANS. OFFSET AS REQUIRED FOR CLEARANCE FROM AIR INTAKES.
14. ROOF HYDRANT. REFER TO PLUMBING DRAWINGS.
15. ROUTE CONDENSATE DRAIN IN CEILING SPACE OVER AND DOWN IN WALL. SLOPE 1/4" PER FOOT. STUB-OUT AND ELBOW DOWN OVER MOP SINK . TERMINATE WITH MINIMUM 2" AIR GAP.
16. MA DUCT (BELOW MAKE UP AIR) CONNECT TO 28"x10" RISER FROM SUPPLY PLENUM.
17. PROVIDE DUCT EXTERNAL INSULATION WRAP AT TRUNK, TYPICAL.
18. CONDENSATE DRAIN LINE DOWN THRU ROOF. REFER TO DETAIL 16/P-500.
19. PROVIDE AND INSTALL ALL EQUIPMENT WITH MANUFACTURER'S RECOMMENDED CLEARANCES FOR MAINTENANCE. MAINTAIN MINIMUM CLEARANCES TO ELECTRICAL AND SERVICE ACCESS PANELS AND DISCONNECTS.
20. GREASE DUCT CLEANOUT LOCATION. PROVIDE ACCESS TO CLEANOUT ABOVE CEILING. REFER TO MECHANICAL SPECIFICATIONS SHEET M-000
21. 8" CONNECTION TO HOOD RTU SUPPLY PLENUM COLLAR. BALANCE TO 236 CFM.
22. PROVIDE AND INSTALL ACR TUBING, SIZED AND ROUTED PER MANUFACTURER'S INSTRUCTIONS, FROM REMOTE REFRIGERANT CONDENSERS TO WALK-IN COOLER AND FREEZER FAN COILS, AND ICE MAKER. TEST, PURGE, EVACUATE AND CHARGE LINES AS REQUIRED BY MANUFACTURER. (START-UP FOR ICE MAKER IS BY OWNER'S REPRESENTATIVE). ROUTE REFRIGERANT LINES THROUGH "ATR HUB" PROVIDED AND INSTALLED BY GC (REFER TO ARCH. ISO 3 AND 4, SHEET A-108). UNITS SECURED TO RACK BY G.C.
23. ROOM AIR SENSOR FROM CAPTIVEAIRE HOOD ON BACK OF MENU BOARD WALL, AS CLOSE TO CEILING AS POSSIBLE.
24. TRANSITION FULL SIZE RETURN PLENUM DOWN TO GRILLES AS REQUIRED. INSIDE RETURN AIR PLENUM WITH 1" LINER PAINTED FLAT BLACK. RE: 1/M-501

NOTE: MAXIMUM FLEXIBLE DUCT LENGTH ALLOWED SHALL BE PER LOCAL CODE AND AMENDMENTS. IMC HAS NO LIMITATIONS FOR FLEXIBLE DUCT LENGTHS.

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PANDA EXPRESS CHINESE KITCHEN

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
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Facsimile: 626.372.8288

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PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

MPW
MPW ENGINEERING, LLC
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SCOTT C. WEBB
REGISTERED
NO. 2010409
STATE OF TENNESSEE
1-30-23

PANDA EXPRESS

PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

M-100

H.V.A.C. FLOOR PLAN &
H.V.A.C. ROOF PLAN

PANDA HOME 2600 R4

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FOR QUESTIONS, CALL THE
Southern California Office
REGION 86
PHONE: (714) 957-1500
EMAIL: reg86@captiveaire.com

PATENT NUMBERS

EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

HOOD INFORMATION – JOB#5667365

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1		4824 ND-2	CAPTIVEAIRE	13' 0"	600 DEG	I	HEAVY	262	3400			4"	18"	3400	1924	-1.202"	0	430 SS WHERE EXPOSED	LEFT	ALONE
2		4824 ND-2	CAPTIVEAIRE	11' 2"	600 DEG	I	HEAVY	260	2900			4"	18"	2900	1641	-0.897"	0	430 SS WHERE EXPOSED	RIGHT	ALONE
3		226 MISC ACPSP-ONLY	CAPTIVEAIRE	11' 9"	300 DEG	I	N/A	0	0								2520	430 SS WHERE EXPOSED	ALONE	ALONE
4		226 MISC ACPSP-ONLY	CAPTIVEAIRE	14' 4"	300 DEG	I	N/A	0	0								2520	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		CAPTRATE SOLO FILTER	9	20"	16"	85% SEE FILTER SPEC	7	L55 SERIES E26	NO	WALL MNT	12"x54"x24"	ANSUL R-102	3.0/3.0/3.0	DCV-2111	1 LIGHT 1 FAN	YES	537 LBS
2		CAPTRATE SOLO FILTER	8	20"	16"	85% SEE FILTER SPEC	6	L55 SERIES E26	NO	RIGHT	20"x48"x24"					YES	548 LBS
3							0									NO	162 LBS
4							0									NO	185 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		LEFT END STANDOFF (FINISHED) 3" WIDE 48" LONG.
		RISER SENSOR INSTALL 6IN PLEN.
2		RISER SENSOR INSTALL 6IN PLEN.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	PDS	LENGTH	WIDTH	HEIGHT	RISER(S) TYPE	WIDTH	LENG	DIA	CFM	SP
3		Front	141"	10"	6"	AC			8"	236	0.135"
						AC			8"	236	0.135"
		Back	141"	12"	6"	MUA	10"	28"		1260	0.530"
						MUA	10"	28"		1260	0.530"
4		Front	172"	10"	6"	AC			8"	236	0.122"
						AC			8"	236	0.122"
		Back	172"	12"	6"	MUA	10"	28"		1254	0.497"
						MUA	10"	28"		1254	0.497"

WALL-MOUNT UTILITY CABINET

HOOD NO	LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	WEIGHT
1	WALL MNT	12"x54"x24"	ANSUL R-102	3.0/3.0/3.0	DCV-2111	1 LIGHT 1 FAN	305.00 LBS

FIRE SYSTEM INFORMATION – JOB#5667365

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION SYSTEM	INSTALLATION LOCATION ON HOOD
1		ANSUL R102	3.0/3.0/3.0	29	WALL UTILITY CABINET LEFT	N/A

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		MECHANICAL	2.000	CAPTIVEAIRE SYSTEMS

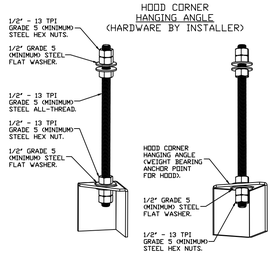
NOTE: UNLESS OTHERWISE STATED, PANDA RESTAURANT GROUP SHALL PROVIDE ALL EQUIPMENT ON THE FOLLOWING CAPTIVEAIRE SHEETS, INCLUDING: HOODS, FIRE SYTEM, EXHAUST FANS, SUPPLY FAN, BATHROOM FAN AND ELECTRICAL INTERLOCK PACKAGE

DOUBLE WALL DUCT BY MECHANICAL
PLEASE USE CONTACT BELOW FOR PRICING

ANSUL GAS VALVE:

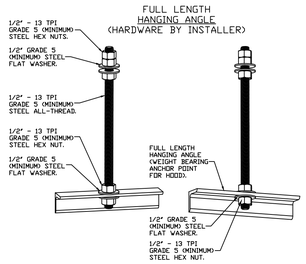
THE ANSUL GAS VALVE IS PROVIDED BY CAPTIVEAIRE SYSTEMS. CONTACT OUR OFFICE WITH THE VALVE SIZE 3 DAYS IN ADVANCE OF WHEN IT IS NEEDED ON SITE.

FOR QUESTIONS CALL THE
CAPTIVEAIRE
SOUTHERN CALIFORNIA OFFICE
3002 DOW AVENUE, SUITE 410
TUSTIN, CA 92780
TEL: 714-957-1500 EMAIL: REG86@CAPTIVEAIRE.COM



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



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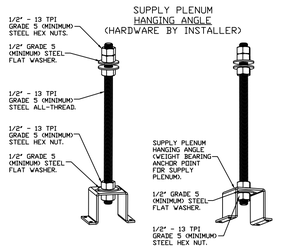

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REVISIONS

	DESCRIPTION	DATE:
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3		
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CAPTIVEAIRE
www.captiveaire.com
Southern California Office
3002 Dow Ave., Suite 410, Tustin, CA. 92780 PHONE: (714) 957-1500 FAX: (919) 227-5975 EMAIL: reg86@captiveaire.com

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Panda Express - Clarksville TN (D23503 EN)
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN, 37040

DATE: 9/30/2022

DWG.#: 5667365

DRAWN BY: AH-86

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

MASTER DRAWING

SHEET NO. 1

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ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

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NORTH RIVERSIDE DR & 2ND ST.
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M-400

HOOD DETAIL PLAN

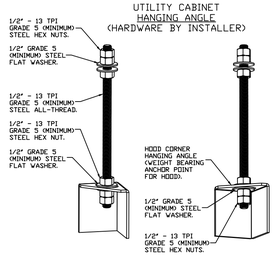
PANDA HOME 2600 R4

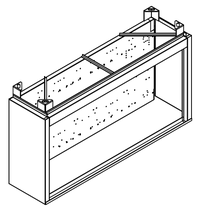
ISSUE FOR BID 01-30-23

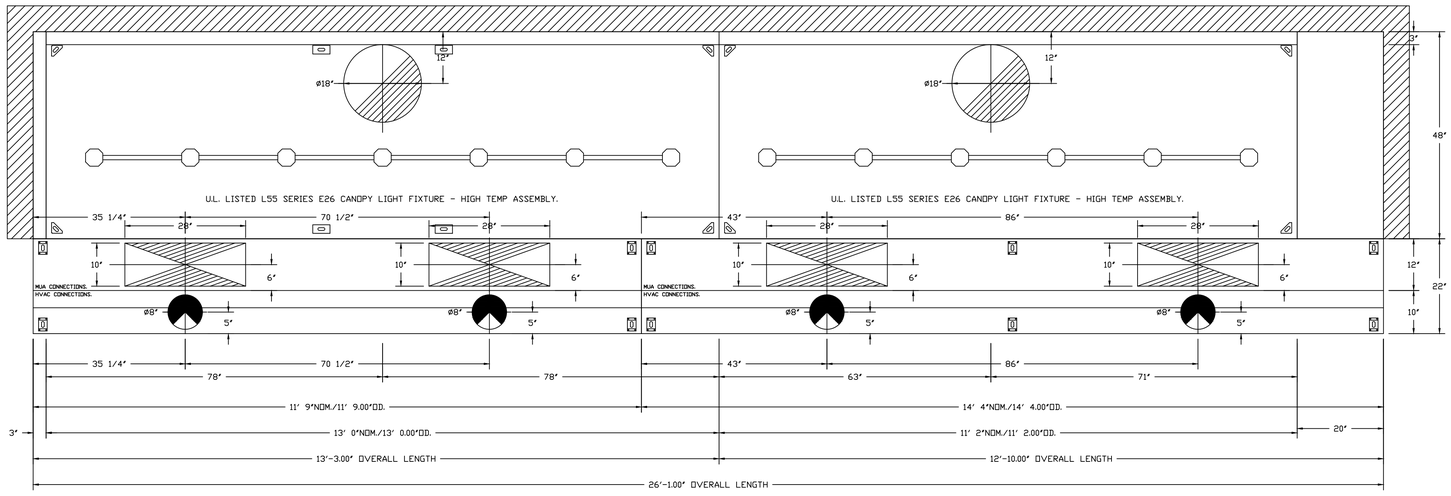
WALL-MOUNT UTILITY CABINET ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH UTILITY CABINET HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

UTILITY CABINET
HANGING ANGLE
(HARDWARE BY INSTALLER)







PLAN VIEW - HOOD #1
13' 0.00" LONG 4824ND-2

NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.

PLAN VIEW - HOOD #3
11' 9.00" LONG 226MISC ACPSP-ONLY

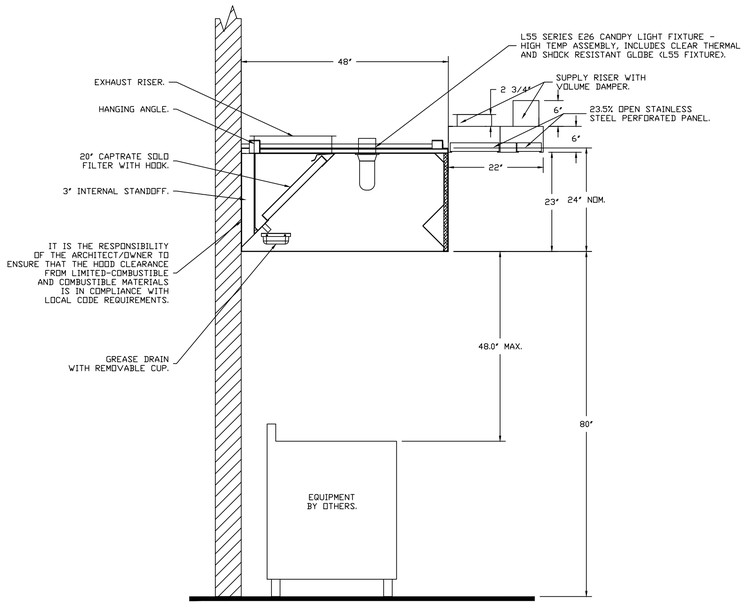
PLAN VIEW - HOOD #2
11' 2.00" LONG 4824ND-2

PLAN VIEW - HOOD #4
14' 4.00" LONG 226MISC ACPSP-ONLY

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH UL 710 AND NFPA 96 AND ARE RECOGNIZED BY ONE OR MORE OF THE FOLLOWING:

ETL SANITATION LISTED

ETL LISTED
FILE# 102900319PRT-001



SECTION VIEW - MODEL 4824ND-2-ACPSP-F
HOOD - #1

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DOUBLE WALL DUCT BY MECHANICAL
PLEASE USE CONTACT BELOW FOR PRICING

ANSUL GAS VALVE:

THE ANSUL GAS VALVE IS PROVIDED BY CAPTIVEAIRE SYSTEMS. CONTACT OUR OFFICE WITH THE VALVE SIZE 3 DAYS IN ADVANCE OF WHEN IT IS NEEDED ON SITE.

FOR QUESTIONS CALL THE
CAPTIVEAIRE
SOUTHERN CALIFORNIA OFFICE

3002 DOW AVENUE, SUITE 410
TUSTIN, CA 92780
TEL: 714-957-1500 EMAIL: REG96@CAPTIVEAIRE.COM

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	DESCRIPTION	DATE:
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△		
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CAPTIVE-AIRE

Southern California Office
3002 Dow Ave - Suite 410, Tustin, CA, 92780 PHONE: (714) 957-1500 FAX: (919) 227-5975 EMAIL: reg96@captiveaire.com
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Panda Express - Clarksville TN (D23503)
NORTH RIVERSIDE DR & 2ND
CLARKSVILLE, TN, 37040

DATE: 9/30/2022

DWG.#: 5667365

DRAWN BY: AH-86

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

MASTER DRAWING

SHEET NO. 2

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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M-401

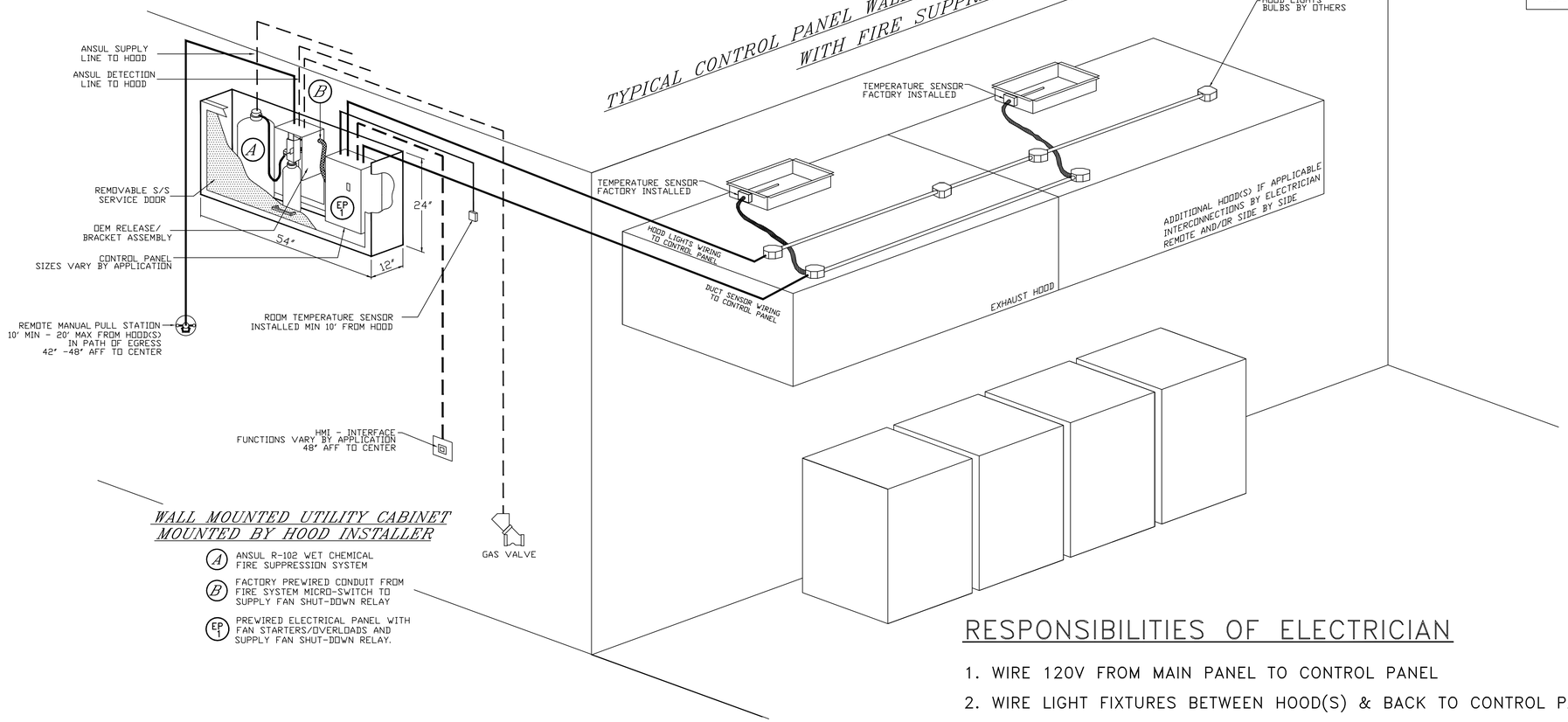
HOOD DETAIL PLAN

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-23

ISSUE FOR BID 01-30-23

TYPICAL CONTROL PANEL WALL UTILITY CABINET MOUNT INSTALLATION WITH FIRE SUPPRESSION SYSTEM



TERMINAL BLOCK WIRING DETAILS CAN BE FOUND ON ELECTRICAL WIRING DIAGRAMS

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RESPONSIBILITIES OF ELECTRICIAN

1. WIRE 120V FROM MAIN PANEL TO CONTROL PANEL
2. WIRE LIGHT FIXTURES BETWEEN HOOD(S) & BACK TO CONTROL PANEL
3. WIRE TEMPERATURE SENSOR(S) FROM EXHAUST COLLARS TO CONTROL PANEL
4. MOUNT & WIRE ROOM SENSOR TO CONTROL PANEL
5. WIRE FAN POWER FROM MAIN PANEL THROUGH CONTROL PANEL TO FAN(S)
6. WIRE SHUNT COIL TO CONTROL PANEL
7. WIRE GAS VALVE (IF APPLICABLE) TO CONTROL PANEL (120V FROM CONTROL PANEL)

ADDITIONAL RESPONSIBILITIES IF APPLICABLE

1. IF MULTIPLE FIRE SYSTEMS ON SINGLE CONTROL PANEL, THE FOLLOWING MUST OCCUR
   A. ANSUL AUTOMAN MICROSWITCHES TO BE WIRED IN SERIES BACK TO CONTROL PANEL
   B. ANSUL CATRIDGE MICROSWITCHES TO BE WIRED IN SERIES BACK TO CONTROL PANEL

RESPONSIBILITIES OF ALARM CONTRACTOR

1. WIRE ANSUL ALARM MICROSWITCH TO BUILDING ALARM PANEL

REVISIONS

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1		
2		
3		
4		

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MASTER DRAWING

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HOOD DETAIL PLAN

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-23

EXHAUST FAN INFORMATION – JOB#5667365

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1		1	DU180HFA	CAPTIVEAIRE	3400	1.588	1399	ODP,PREMIUM	3.000	1.9700	3	208	9.5	785 FPM	189	22.7
2		1	DU180HFA	CAPTIVEAIRE	2900	1.178	1199	ODP,PREMIUM	2.000	1.2400	3	208	8.3	670 FPM	188	17.3
3		1	DR12HFA	CAPTIVEAIRE	450	0.250	1220	TEAO-ECM	0.250	0.0810	1	115	2.9		49	5.4

CONDENSER DETAILS

FAN UNIT NO	TAG	FAN UNIT MODEL #	CONDENSER NO	TONNAGE	VOLTAGE	PHASE	FREQUENCY	MCA	RLA	MAX FUSE SIZE	MIN WIRE SIZE	SEER
4		A3-D.500-24D-MPU	1	5	208-230	3 PHASE	60 HZ	21.4 AMPS	17.4 AMPS	30 AMPS	10 AWG	14
			2	5	208-230	3 PHASE	60 HZ	21.4 AMPS	17.4 AMPS	30 AMPS	10 AWG	14

MUA FAN INFORMATION – JOB#5667365

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
4		1	A3-D.500-24D-MPU	24MF-3-MOD	A3-D.500	3600	5040	0.900	1450	ODP,PREMIUM	7.500	5.1920	3	208	21.1	26.4A	40A	1876	13.8

COILS – JOB#5667365

FAN UNIT NO	TAG	COIL TYPE	DESIGN CFM	COOLING										HEATING								
				ENTERING DB TEMP	ENTERING WB TEMP	LEAVING DB TEMP	LEAVING WB TEMP	ENTERING FLUID TEMP	LEAVING FLUID TEMP	FLUID FLOW RATE	PERCENT GLYCOL	TOTAL CAPACITY	SENSIBLE CAPACITY	LATENT CAPACITY	ENTERING DB TEMP	LEAVING DB TEMP	ENTERING FLUID TEMP	LEAVING FLUID TEMP	FLUID FLOW RATE	PERCENT GLYCOL	STEAM PRESSURE	TOTAL CAPACITY	SENSIBLE CAPACITY
4		DX	5040	95.0°F	78.0°F	82.2°F	72.0°F	---	---	---	---	120.0 MBH	68.1 MBH	51.9 MBH	---	---	---	---	---	---	---	---	---

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
4		539830	496644	100°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1		1	GREASE BOX
		1	UPBLAST FAN WHEEL ACCESS PORT
		1	FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	2 YEAR PARTS WARRANTY
2		1	GREASE BOX
		1	UPBLAST FAN WHEEL ACCESS PORT
		1	FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	2 YEAR PARTS WARRANTY
3		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
		1	I 12-BDD DAMPER
		1	2 YEAR PARTS WARRANTY
4		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	MOTORIZED BACKDRAFT DAMPER FOR A3-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	10 TON 2 CIRCUIT (S/S) MODULAR PACKAGED COOLING OPTION FOR SIZE 3 DF/EH MUA (3,600 TO 6,000 CFM), 208V/230V, 3 PHASE. COOLING THERMOSTAT OR PROGRAMMABLE STAT REQUIRED FOR PROPER OPERATION
		1	DOWNTURN PLENUM FOR SIZE 3 DX COIL MODULE
		1	SHIP CONDENSERS LOOSE - TWO CONDENSERS, THREE PHASE - CONDENSER DISCONNECTS SHIPPED LOOSE
		1	UNIT MOUNTED VFD FOR USE WITH ECPM03
		1	LOW FIRE START
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY
		1	COOLING THERMOSTAT AND RELAY (NOT REQUIRED FOR EVAP)
		1	2 YEAR PARTS WARRANTY

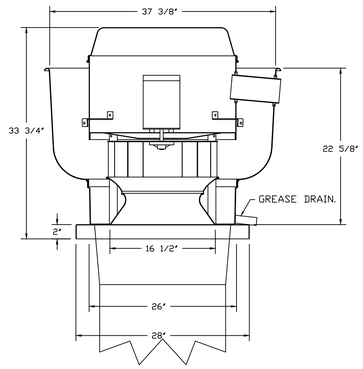
FAN ACCESSORIES

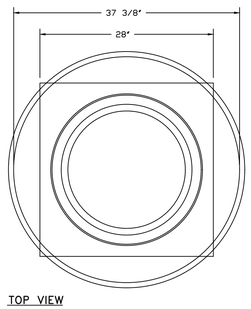
FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1		YES						
2		YES						
3			YES					
4							YES	

CURB ASSEMBLIES

NO	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	34 LBS	CURB	26.500"W X 26.500"L X 30.000"H ALONG LENGTH, RIGHT VENTED HINGED.
2	# 2	34 LBS	CURB	26.500"W X 26.500"L X 30.000"H ALONG LENGTH, RIGHT VENTED HINGED.
3	# 3	16 LBS	CURB	17.500"W X 17.500"L X 12.000"H ALONG LENGTH, RIGHT.
4	# 4	114 LBS	CURB	35.000"W X 84.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED.
	# 4		RAIL	6.000"W X 35.000"L X 20.000"H RIGHT.

FANS #1, #2 - DU180HFA EXHAUST FAN





TOP VIEW

FEATURES:

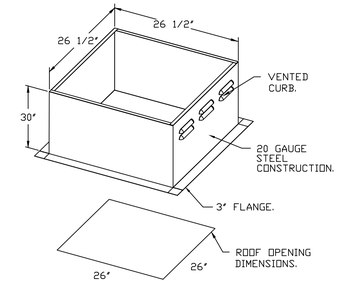
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

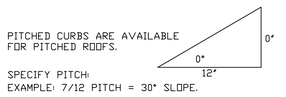
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

GREASE BOX.
UPBLAST FAN WHEEL ACCESS PORT.
FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
2 YEAR PARTS WARRANTY.





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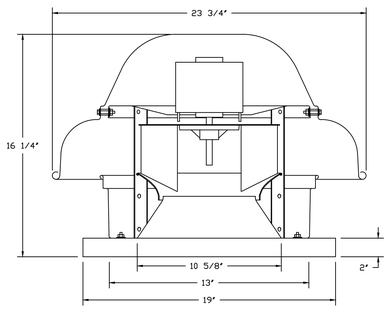
M-403

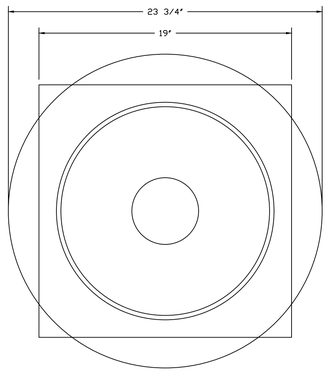
HOOD DETAIL PLAN

ISSUE FOR BID 01-30-23

PANDA HOME 2600 R4

FAN #3 DR12HFA - EXHAUST FAN





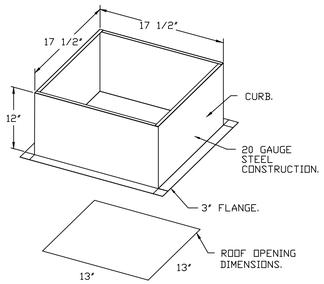
TOP VIEW

FEATURES:

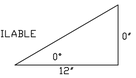
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.

OPTIONS

ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION.
I 12-BDD DAMPER.
2 YEAR PARTS WARRANTY.

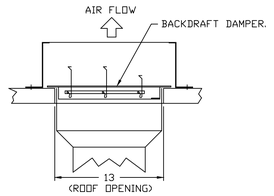


PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.



SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.

BACKDRAFT DAMPER INSTALLATION



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Preliminary Drawing - Not for Construction Use for quoting purposes only

Panda Express - Clarksville TN (D23503)
NORTH RIVERSIDE DR & 2ND ST
CLARKSVILLE, TN, 37040

DATE: 9/30/2022

DWG.#: 5667365

DRAWN BY: AH-86

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

MASTER DRAWING

SHEET NO. 5

PANDA EXPRESS
CHINESE KITCHEN

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

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ISSUE FOR PERMIT	10-20-22
ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

MPW
MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 920 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4087 FAX

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PANDA EXPRESS
PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

M-404

HOOD DETAIL PLAN

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-23

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FAN #4 A3-D500-24D-MPU - HEATER
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 24" MIXED FLOW DIRECT DRIVE FAN AND 12" BURNER.
2. INTAKE HOOD WITH EZ FILTERS.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
5. GAS PRESSURE GAUGE, -5 TO +15 INCHES W.C., 2.5" DIAMETER, 1/4" THREAD SIZE.
6. MOTORIZED BACK DRAFT DAMPER 30" X 30" FOR SIZE 3 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE. NFBUP-S ACTUATOR INCLUDED.
7. 10 TON, DUAL CIRCUIT (5/5) MODULAR PACKAGED COOLING OPTION FOR SIZE 3 DF/EH MODULAR PACKAGED UNIT. INCLUDES CONDENSER, DX COIL, FILTER/DRYER KIT, THERMAL EXPANSION VALVE, R410A REFRIGERANT, AND REFRIGERANT PIPING. (3,600 TO 6,000 CFM) WHEN ORDERED WITH OPPOSITE AIRFLOW CONDENSERS ACCESS AND COIL PIPING WILL REMAIN IN STANDARD POSITION. DRAIN AND SLEDS WILL MOVE TO THE OPPOSITE SIDE. ANY OTHER CHANGE WILL REQUIRE CLI. CONDENSERS REQUIRE SEPARATE 208V, 3 PHASE POWER SUPPLY UNLESS ORDERED WITH SINGLE POINT CONNECTION. COIL = 3EZ060M.
8. DOWNTURN PLENUM FOR SIZE 3 COOLING COIL MODULE - REQUIRED FOR DOWN DISCHARGE COOLING COIL APPLICATIONS.
9. SHIP CONDENSERS LOOSE. THE REFRIGERATION LINES WILL NEED TO BE STUBBED OUT 12 INCHES. THE SUCTION LINES NEEDS TO BE INSULATED INSIDE THE COIL MODULE. ROTARY DISCONNECT SHOULD NOT BE INSTALLED ON THE POST, BLANK POST SHOULD BE USED IN PLACE.
10. UNIT MOUNTED VFD FOR USE WITH ECPM03.
11. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
12. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
13. DX COOLING INTAKE AIR THERMOSTAT AND RELAYS MOUNTED IN UNIT - SET POINT FOR THERMOSTAT SHOULD BE 85°F.
14. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER/MPU SECTION).
15. 2 YEAR PARTS WARRANTY

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED STRAIGHT DUCT SIZE IS 24" x 24".

NOTE: UNLESS OTHERWISE STATED, PANDA RESTAURANT GROUP SHALL PROVIDE ALL EQUIPMENT ON THE FOLLOWING CAPTIVEAIRE SHEETS, INCLUDING: HOODS, FIRE SYTEM, EXHAUST FANS, SUPPLY FAN, BATHROOM FAN AND ELECTRICAL INTERLOCK PACKAGE

DOUBLE WALL DUCT BY MECHANICAL
PLEASE USE CONTACT BELOW FOR PRICING

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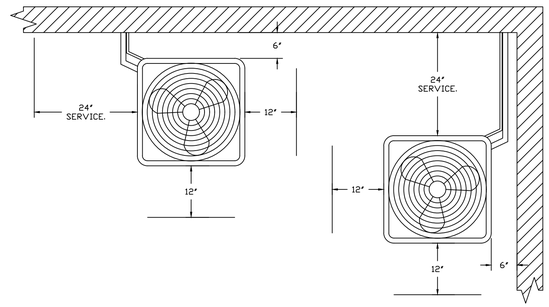
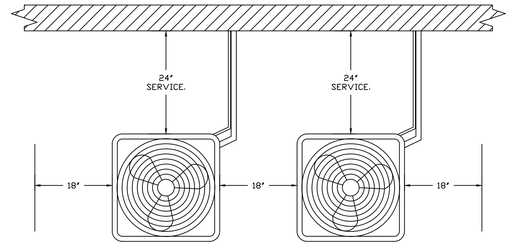
SUPPLY SIDE HEATER INFORMATION:

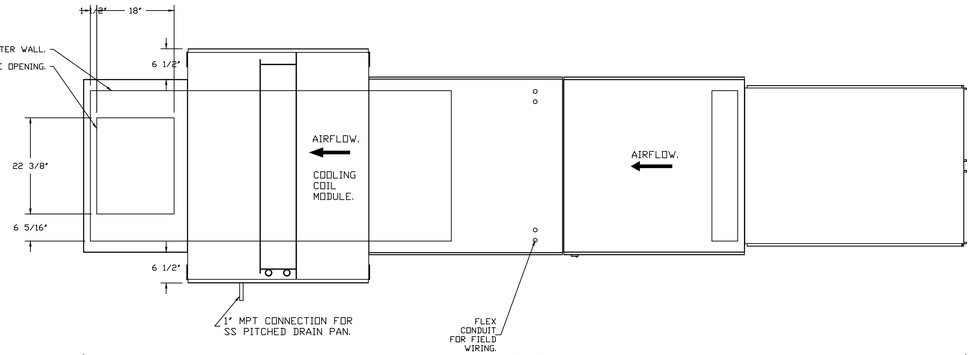
WINTER TEMPERATURE = 20°F. TEMP. RISE = 100°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 496644.
INPUT BTUs AT ALTITUDE OF 0.0 FT. = 539830.

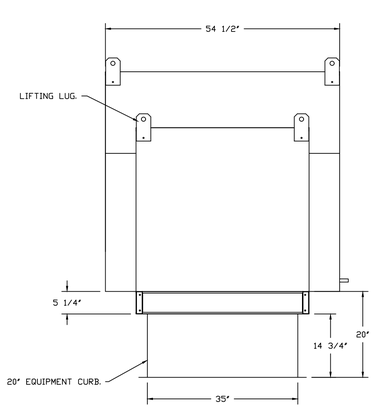


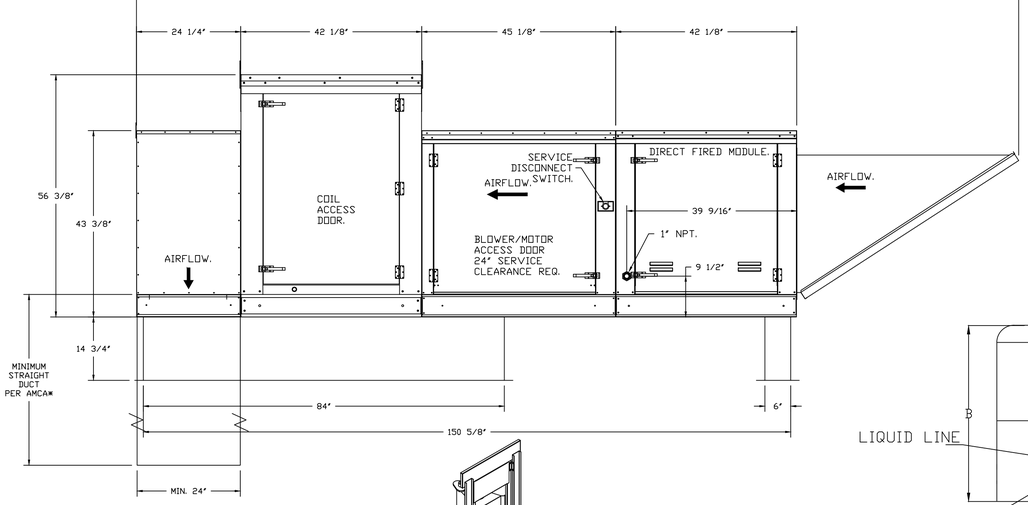


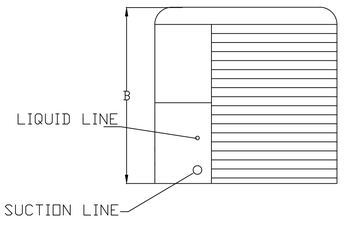
CONDENSER CLEARANCES

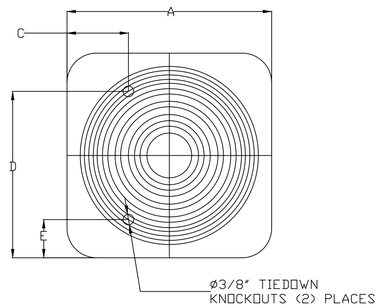
48" CLEARANCE REQUIRED ABOVE CONDENSERS.
(NOTE: **CONDENSERS SHOWN HERE ARE NOT DRAWN AT SCALE).



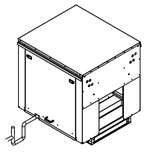








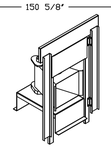
TYPICAL DRAIN TRAP INSTALL



RECOMMENDED COOLING COIL DRAIN TRAP CONFIGURATION.

Refer to Plumbing Detail P-500 for AC Unit Condensate Drain

NOTES: Important: Copper above roof deck where it is exposed. PVC below roof deck
1) 1" DIAMETER PVC PIPE ONLY.
2) USE ONLY LOW PROFILE COUPLINGS.
3) ADD CLEAN OUT AS SHOWN.



DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

DIRECT FIRED PROFILE PLATE SPECIFICATIONS:
DESCRIPTION:
DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO: US6629523B2), SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 9PPM OF CARBON MONOXIDE (CO), AND 0.5PPM OF NITROGEN DIOXIDE (NO2)DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

APPLICATION:
SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

CERTIFICATIONS:
ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNIT'S ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 3.7 (NON-RECIRCULATING DF HEATERS) AND ANSI Z83.18 (RECIRCULATING DF HEATERS).

GENERAL CONSTRUCTION:
-PROFILE PLATES SHALL BE FORMED FROM G90 GALVANIZED STEEL.
-PROFILE PLATES SHALL VARY IN SIZE PER UNIT.
-PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.
-DESIGN SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.
-SPRING HINGES SHALL BE MADE FROM PLATED STEEL.

ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

		UNIT DIMENSIONS					CONNECTION SIZES		
MODEL	WEIGHT	A	B	C	D	E	SUCTION	LIQUID	NOMINAL TONNAGE
24ABB360	190 LBS	31-3/16	25-1/2	9-1/8	24-11/16	6-9/16	7/8	3/8	5

ELECTICAL INFORMATION

MODEL	V-PH	RLA	MCA	FUSE SIZE
24ABB360	208/230-3	16.0	21.4	30

REVISIONS

	DESCRIPTION	DATE:
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DATE: 9/30/2022
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SHEET NO. 6

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HOOD DETAIL PLAN

PANDA HOME 2600 R4

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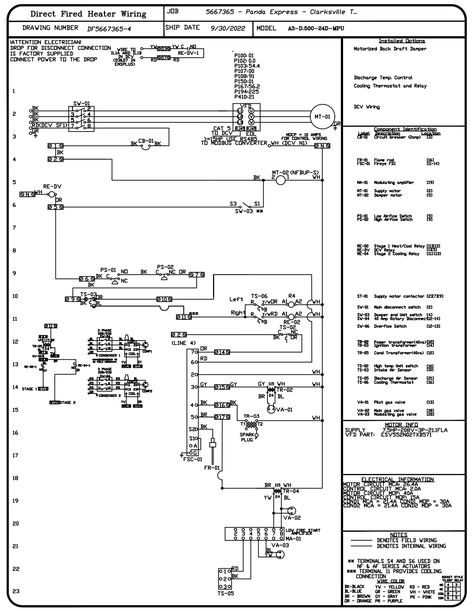

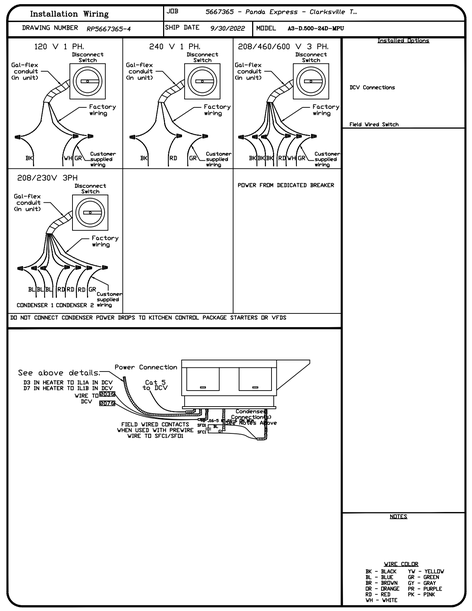

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MASTER DRAWING

SHEET NO. 7

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M-406

HOOD DETAIL PLAN

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-23

ELECTRICAL PACKAGE – JOB#5667365

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	Φ	HP	VOLT	FLA
1		DCV-2111	WALL UTILITY CABINET LEFT	08 – SHIP LOOSE W/ PREWIRE	1 LIGHT	SMART CONTROLS DCV	EXHAUST	3	3.000	208	9.5
					1 FAN		EXHAUST	3	2.000	208	8.3
							SUPPLY	3	7.500	208	21.1

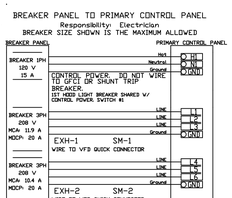
JOB NO 5667365 | MODEL NUMBER DCV-2111 | JOB NAME Panda Express - Clarksville T... | DRAWN BY | DATE 9/30/2022 | SCHEMATIC TYPE INSTALL | DWG NO ECP 81-1

DESCRIPTION OF OPERATION: Demand Control Ventilation, w/ control for 2 Exhaust Fans, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose for remote installation/verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 Feet.

BREAKER PANEL TO PRIMARY CONTROL PANEL

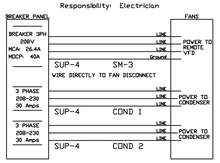
Responsibility: Electrician

BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED



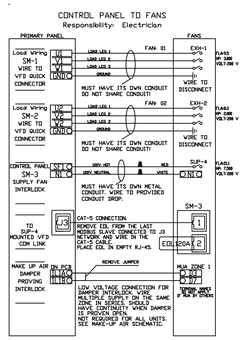
BREAKER PANEL TO FANS

Responsibility: Electrician



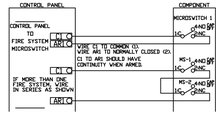
CONTROL PANEL TO FANS

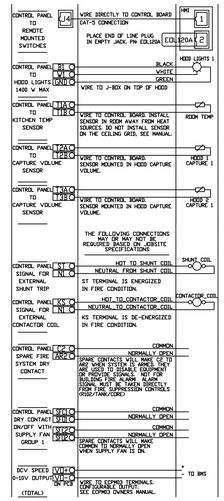
Responsibility: Electrician



CONTROL PANEL TO ACCESSORY ITEMS

Responsibility: Electrician





JOB NO 5667365 | MODEL NUMBER DCV-2111 | JOB NAME Panda Express - Clarksville T... | DRAWN BY | DATE 9/30/2022 | SCHEMATIC TYPE INSTALL | DWG NO ECP 81-2

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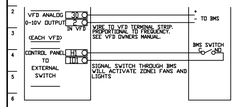

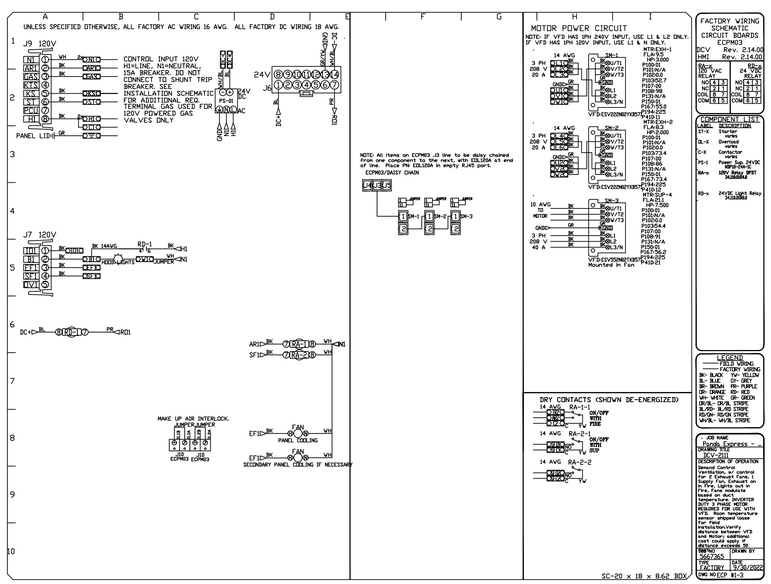

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M-407

HOOD DETAIL PLAN

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-23

DUCTWORK #1 PARTS – JOB#5667365 DOUBLE WALL

TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1829DWLT-2R-S	3400				-0.009	50.46	1924.01	1	DOUBLE WALL DUCT - 18" INNER DUCT, 29" LONG - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P2	DW1847DWAJD-2R-S	3400				-0.009	107.98	1924.01	1	DOUBLE WALL ADJUSTABLE DUCT - 18" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P3	DW1890DWASY-2R-S	3400				-0.115	45.59	1924.01	1	DOUBLE WALL DUCT - 18" INNER 90 DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P4	DW1801DWOFFSETASY-2R-S	3400				-0.003	14.66	1924.01	1	DOUBLE WALL DUCT - 18" INNER DUCT RISER & 1 DEGREE OFFSET - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P5	DW1827DWAJD-2R-S	3400				-0.006	62.85	1924.01	1	DOUBLE WALL ADJUSTABLE DUCT - 18" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 24.5" / ADJUSTMENT = 13.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P6	DW2226SADKIT						8.80		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 22" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2226SAD, & HARDWARE BAG 4.
P7	DW1801DWOFFSETASY-2R-S	3400				-0.003	14.66	1924.01	1	DOUBLE WALL DUCT - 18" INNER DUCT RISER & 1 DEGREE OFFSET - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P8 ASSEMBLED W/P9	DW18DWTEASY-2R-S	3400		1		-0.23	55.68	1924.01	1	DOUBLE WALL DUCT - 18" INNER TEE DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P9 ASSEMBLED W/P8 &=S	DW18DWACCDOORCOV-2R-S						26.16		1	DOUBLE WALL DUCT - 18" INNER ACCESS DOOR & 22" ACCESS DOOR COVER WITH CLAMPS - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P10 ASSEMBLED W/P11	DW1835DWLTTP-2R-S	3400				-0.011	58.74	1924.01	1	DOUBLE WALL DUCT - 18" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATES
P11 ASSEMBLED W/P10	DW2618TPDBEX	3400					9.00	1924.01	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 26 1/2" CURB TO 18" DUCT, 16 GA ALUMINIZED. USED ON NCA16FA / NCA16HPFA & NCA18FA / NCA18HPFA. TRANSITION PLATE OD IS 27.00" DESIGNED FOR USE WITH EXHAUST FAN. NON-STANDARD PART.
SYSTEM AT P11						-1.588	0.00			
P12	DW2226SADKIT						8.80		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 22" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2226SAD, & HARDWARE BAG 4.
	3M-2000PLUS						0.80		3	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	DW18DWCLASY-2R-S						8.70		3	DUCT - 18" DUCT - 22" DOUBLE "V" CLAMP - 2R INSULATION & SINGLE "V" CLAMP INCLUDED - REDUCED CLEARANCE.
TOTAL WEIGHT							491.88			

DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (FT)
5"	7'
6"	7'
7"	7'
8"	7'
10"	7'
12"	7'
14"	7'
16"	7'
18"	5'
20"	5'
22"	5'
24"	5'
26"	5'
28"	5'
30"	5'
32"	5'
34"	5'
36"	5'

VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5"-16")	20'	24'	24'
2R (18")	18'	24'	24'
3R & 3Z (5"-24")	10'	24'	24'
3Z (26" -36")	10'	20'	20'

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

NOTE: UNLESS OTHERWISE STATED, PANDA RESTAURANT GROUP SHALL PROVIDE ALL EQUIPMENT ON THE FOLLOWING CAPTIVEAIRE SHEETS, INCLUDING: HOODS, FIRE SYTEM, EXHAUST FANS, SUPPLY FAN, BATHROOM FAN AND ELECTRICAL INTERLOCK PACKAGE

DOUBLE WALL DUCT BY MECHANICAL
PLEASE USE CONTACT BELOW FOR PRICING

ANSUL GAS VALVE:

THE ANSUL GAS VALVE IS PROVIDED BY CAPTIVEAIRE SYSTEMS. CONTACT OUR OFFICE WITH THE VALVE SIZE 3 DAYS IN ADVANCE OF WHEN IT IS NEEDED ON SITE.

FOR QUESTIONS CALL THE
CAPTIVEAIRE
SOUTHERN CALIFORNIA OFFICE

3002 DOW AVENUE, SUITE 410
TUSTIN, CA 92780
TEL: 714-957-1500 EMAIL: REG86@CAPTIVEAIRE.COM

REVISIONS

	DESCRIPTION	DATE:
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△		
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www.captiveaire.com

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Panda Express - Clarksville TN (D23503)
NORTH RIVERSIDE DR & 2ND
CLARKSVILLE, TN, 37040

DATE: 9/30/2022
DWG.#: 5667365
DRAWN BY: AH-86
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 9

ISSUE FOR BID 01-30-23

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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ISSUE DATE:

	ISSUE FOR PERMIT	10-20-22
	ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

MPW
MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600 • TULSA, OK 74119
(918) 582-6099 • (918) 582-6097 FAX

FOR INFORMATION ONLY

PANDA EXPRESS
PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

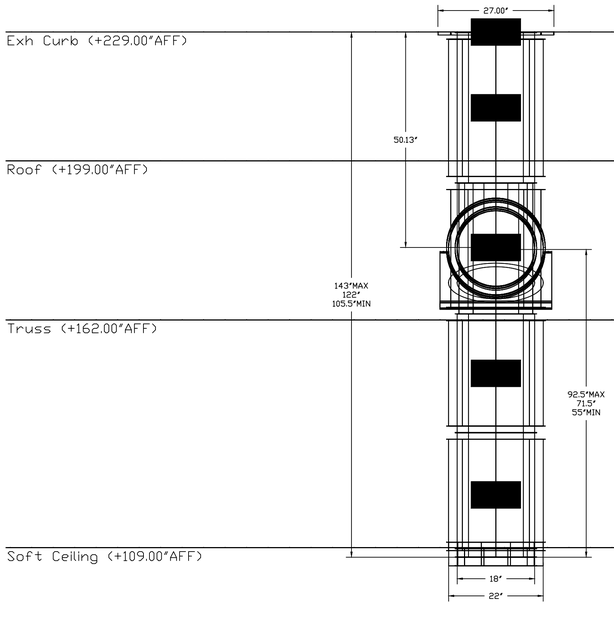
M-408

HOOD DETAIL PLAN

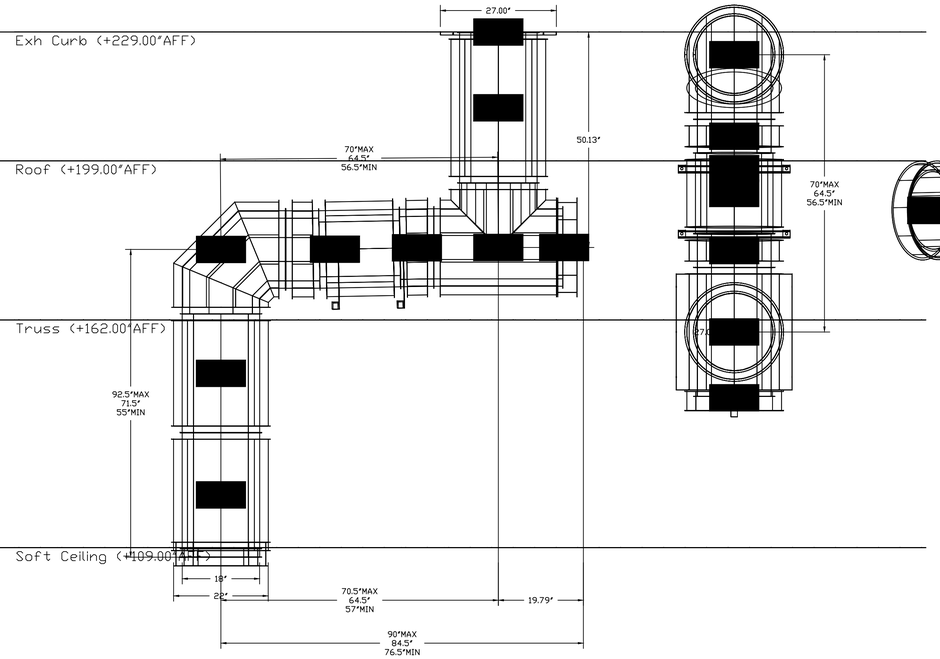
PANDA HOME 2600 R4

ISSUE FOR BID 01-30-23

DUCTWORK #1 FRONT VIEW

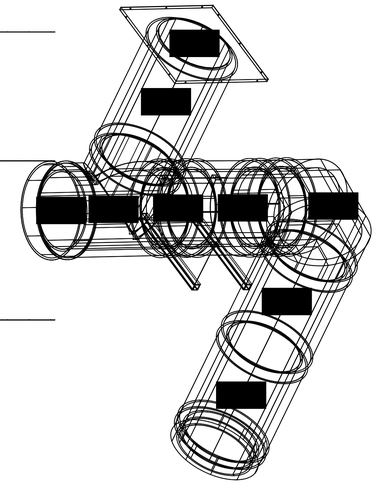


DUCTWORK #1 SIDE VIEW



DUCTWORK #1 TOP VIEW

DUCTWORK #1 SE VIEW



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DOUBLE WALL DUCT BY MECHANICAL
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TUSTIN, CA 92780
TEL: 714-957-1500 EMAIL: REGB6@CAPTIVEAIRE.COM

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Preliminary Drawing - Not for Construction Use for quoting purposes only

Panda Express - Clarksville TN (D23503)
NORTH RIVERSIDE DR & 2ND ST
CLARKSVILLE, TN, 37040

DATE: 9/30/2022

DWG.#: 5667365

DRAWN BY: AH-86

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

MASTER DRAWING

SHEET NO. 10

ISSUE FOR BID 01-30-23

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
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ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

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CLARKSVILLE, TN 37040

M-409

HOOD DETAIL PLAN

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-23

DUCTWORK #2 PARTS – JOB#5667365 DOUBLE WALL

TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1829DWLT-2R-S	2900				-0.007	50.46	1641.06	1	DDUBLE WALL DUCT - 18" INNER DUCT, 29" LONG - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P2	DW1847DWAJD-2R-S	2900				-0.006	107.98	1641.06	1	DDUBLE WALL ADJUSTABLE DUCT - 18" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DDUBLE WALL "V" CLAMPS.
P3	DW1890DWASY-2R-S	2900				-0.084	45.59	1641.06	1	DDUBLE WALL DUCT - 18" INNER 90 DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P4	DW1801DWOFFSETASY-2R-S	2900				-0.002	14.66	1641.06	1	DDUBLE WALL DUCT - 18" INNER DUCT RISER & 1 DEGREE OFFSET - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P5	DW1827DWAJD-2R-S	2900				-0.004	62.85	1641.06	1	DDUBLE WALL ADJUSTABLE DUCT - 18" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 24.5" / ADJUSTMENT = 13.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DDUBLE WALL "V" CLAMPS.
P6	DW2226SADKIT						8.80		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 22" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2226SAD, & HARDWARE BAG 4.
P7	DW1801DWOFFSETASY-2R-S	2900				-0.002	14.66	1641.06	1	DDUBLE WALL DUCT - 18" INNER DUCT RISER & 1 DEGREE OFFSET - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P8 ASSEMBLED W/P9	DW18DWTEASY-2R-S	2900		1		-0.168	55.68	1641.06	1	DDUBLE WALL DUCT - 18" INNER TEE DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P9 ASSEMBLED W/P8 O=S	DW18DWACCDOORCOV-2R-S						26.16		1	DDUBLE WALL DUCT - 18" INNER ACCESS DOOR & 22" ACCESS DOOR COVER WITH CLAMPS - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P10 ASSEMBLED W/P11	DW1835DWLTTP-2R-S	2900				-0.008	58.74	1641.06	1	DDUBLE WALL DUCT - 18" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATES
P11 ASSEMBLED W/P10	DW2618TPDBEX	2900					9.00	1641.06	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 26 1/2" CURB TO 18" DUCT, 16 GA ALUMINIZED. USED ON NCA16FA / NCA16HPFA & NCA18FA / NCA18HPFA. TRANSITION PLATE OD IS 27.00" DESIGNED FOR USE WITH EXHAUST FAN. NON-STANDARD PART.
SYSTEM AT P11						-1.178	0.00			
P12	DW2226SADKIT						8.80		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 22" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2226SAD, & HARDWARE BAG 4.
	3M-2000PLUS						0.80		3	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	DW18DWCLASY-2R-S						8.70		3	DUCT - 18" DUCT - 22" DDUBLE "V" CLAMP - 2R INSULATION & SINGLE "V" CLAMP INCLUDED - REDUCED CLEARANCE.
TOTAL WEIGHT							491.88			

DOUBLE WALL FACTORY BUILT DUCTWORK

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- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (FT)
5"	7'
6"	7'
7"	7'
8"	7'
10"	7'
12"	7'
14"	7'
16"	7'
18"	5'
20"	5'
22"	5'
24"	5'
26"	5'
28"	5'
30"	5'
32"	5'
34"	5'
36"	5'

VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5'-16')	20'	24'	24'
2R (18")	18'	24'	24'
3R & 3Z (5'-24')	10'	24'	24'
3Z (26" -36")	10'	20'	20'

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DDUBLE WALL DUCT BY MECHANICAL
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FOR QUESTIONS CALL THE
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3002 DOW AVENUE, SUITE 410
TUSTIN, CA 92780
TEL: 714-957-1500 EMAIL: REGB6@CAPTIVEAIRE.COM

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Panda Express - Clarksville TN (D23503)
NORTH RIVERSIDE DR & 2ND
CLARKSVILLE, TN, 37040

DATE: 9/30/2022

DWG.#: 5667365

DRAWN BY: AH-86

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

MASTER DRAWING

SHEET NO. 11

ISSUE FOR BID 01-30-23

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91770
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Facsimile: 626.372.8288

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ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

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MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4087 FAX

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NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

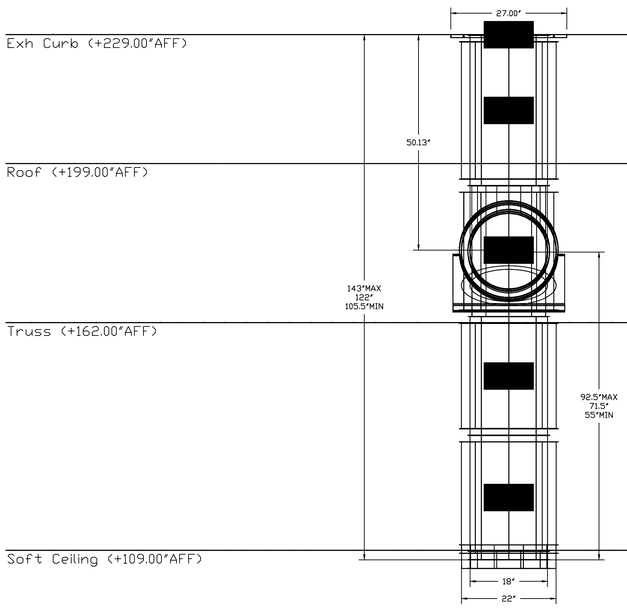
M-410

HOOD DETAIL PLAN

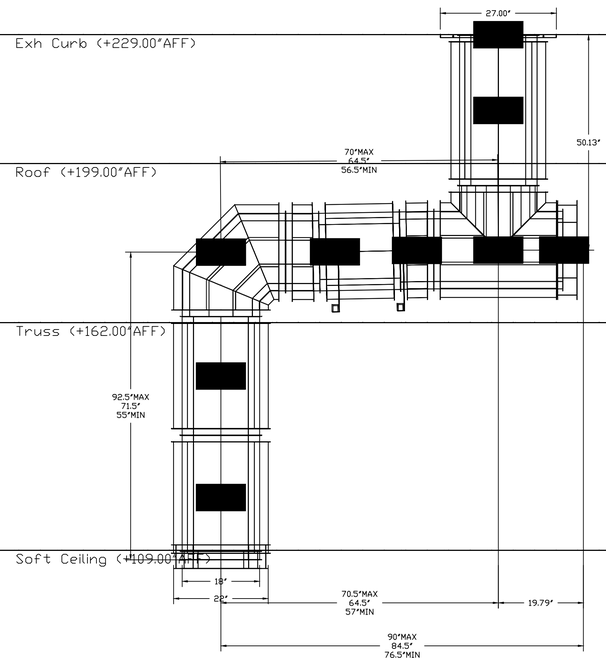
PANDA HOME 2600 R4

ISSUE FOR BID 01-30-23

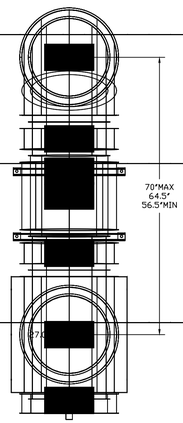
DUCTWORK #2 FRONT VIEW



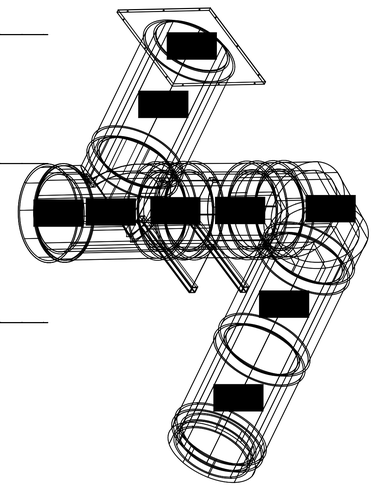
DUCTWORK #2 SIDE VIEW



DUCTWORK #2 TOP VIEW



DUCTWORK #2 SE VIEW



NOTE: UNLESS OTHERWISE STATED, PANDA RESTAURANT GROUP SHALL PROVIDE ALL EQUIPMENT ON THE FOLLOWING CAPTIVEAIRE SHEETS, INCLUDING: HOODS, FIRE SYTEM, EXHAUST FANS, SUPPLY FAN, BATHROOM FAN AND ELECTRICAL INTERLOCK PACKAGE

DOUBLE WALL DUCT BY MECHANICAL
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ANSUL GAS VALVE:

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SOUTHERN CALIFORNIA OFFICE

3002 DOW AVENUE, SUITE 410
TUSTIN, CA 92780
TEL: 714-957-1500 EMAIL: REG86@CAPTIVEAIRE.COM

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	DESCRIPTION	DATE:
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2		
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Preliminary Drawing - Not for Construction Use for quoting purposes only

Panda Express - Clarksville TN (D23503)
NORTH RIVERSIDE DR & 2ND
CLARKSVILLE, TN, 37040

DATE: 9/30/2022

DWG.#: 5667365

DRAWN BY: AH-86

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

MASTER DRAWING

SHEET NO. 12

ISSUE FOR BID 01-30-23

PANDA EXPRESS CHINESE KITCHEN

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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ISSUE DATE:

	ISSUE FOR PERMIT	10-20-22
	ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

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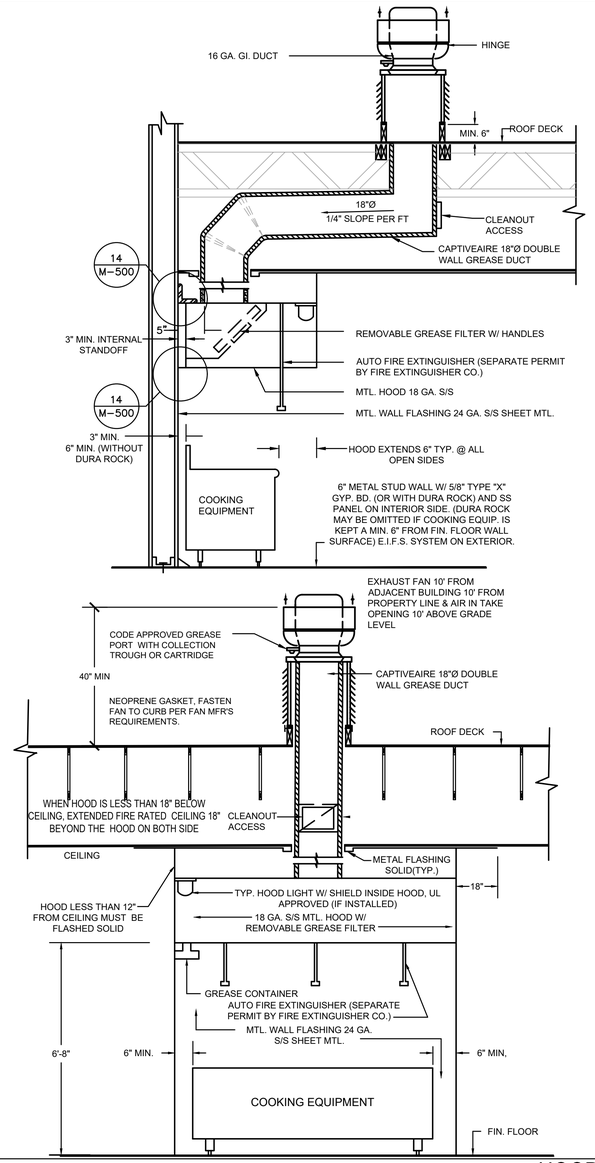
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

M-411

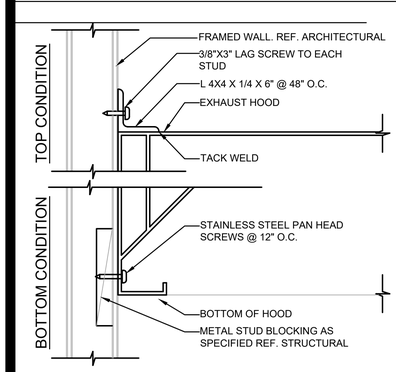
HOOD DETAIL PLAN

PANDA HOME 2600 R4

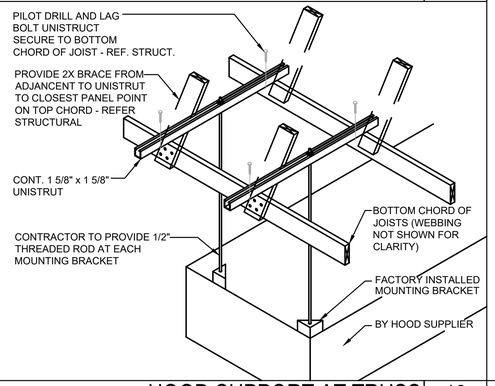
ISSUE FOR BID 01-30-23



HOOD SECTIONS | 18
Scale: NO SCALE | M-500



HOOD CLIP AT WALL | 14
Scale: NO SCALE | M-500



HOOD SUPPORT AT TRUSS | 13
Scale: NO SCALE | M-500

PERFORMANCE TEST FOR LISTED MECHANICAL HOOD IS REQUIRED PER UMC 509.11

GREASE HOOD SYSTEM CALCULATION

1. TYPE : CANOPY TYPE I, STAINLESS STEEL 18 GAUGE,
2. COOKING EQUIPMENT: (2) CHINESE RANGE, (2) DEEP FRYER, RICE COOKER
3. SIZE: 23'-6" x 4'-0" + 2'-0" MAKEUP AIR PLENUM
4. MIN. REQ'D CAPACITY CFM: (2) U.L. LISTED HOOD @ 3,450 CFM EACH
5. PROPOSED (2) EXHAUST FAN & (1) MAKE-UP AIR UNIT. EF1 & EF2 (3,450 CFM EACH); MAU1 (5,520 CFM, 80% OF EXHAUST)
6. EXHAUST DUCT SIZE:18"Ø
7. EXHAUST VELOCITY @ EXHAUST DUCT 1952
8. EXHAUST FAN (EF1 & EF2) AND MAKE-UP AIR UNIT (MAU1) SHALL BE ELECTRICALLY INTERLOCKED
9. FOR CODE COMPLIANCE SEE DETAIL
10. FOR FILTER INFORMATION SEE CAPTIVEAIRE DWG #M-400.
11. INTERLOCK RTU FANS TO OPERATE WITH KEF'S FOR MAKEUP AIR.

INFORMATIONAL GUIDE FOR COMMERCIAL COOKING HOODS

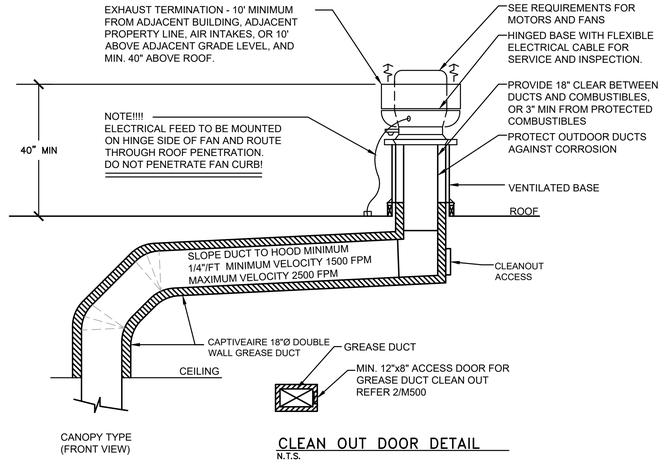
1. STAINLESS STEEL TO BE NO. 18 U.S. GAGE.
2. WHEN GUTTERS ARE PROVIDED THEY SHALL DRAIN TO A COLLECTING PAN WHICH IS READILY ACCESSIBLE FOR CLEANING
3. SEE TABLE 507.11 FOR MINIMUM DISTANCE BETWEEN LOWER EDGE OF GREASE FILTER AND THE COOKING OR HEATING SURFACE.
4. GREASE FILTERS SHALL BE OF STEEL CONSTRUCTION AND READILY ACCESSIBLE FOR CLEANING.
5. ALL JOINTS AND SEAMS SHALL BE GREASE TIGHT.
6. HOODS SHALL BE SECURELY FASTENED IN PLACE BY INCOMBUSTIBLE SUPPORTS.

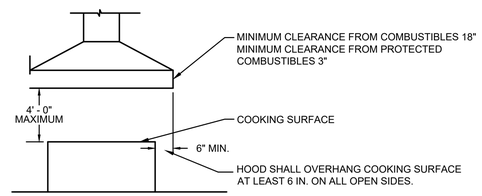
NOTES

1. PROVIDE ADEQUATE CLEANOUT OPENINGS FOR THOROUGH CLEANING OF DUCT SYSTEM.
2. PROVIDE ADEQUATE MAKE-UP AIR FOR PROPER OPERATION.
3. PROVIDE A SEPARATE DUCT SYSTEM FOR EACH HOOD.
4. THICKNESS OF DUCTS SHALL BE:

DUCT AREA	U.S. GAGE STEEL
UP TO 4 SQ. FT.	16 GA
OVER 4 SQ. FT.	14 GA

5. SUPPORT THE DUCTS AS REQUIRED. DO NOT PENETRATE DUCT WALLS WITH SCREWS, NAILS, ETC.
6. SECTIONS OF DUCT SHALL NOT CONTAIN GREASE POCKETS.





(FOR REFERENCE ONLY)

HOOD VENTILATION AND SECTION | 5
Scale: NO SCALE | M-500

NOT USED | 2
M-500

NOT USED | 1
Scale: NO SCALE | M-500

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REVISIONS:

ISSUE DATE:

	ISSUE FOR PERMIT	10-20-22
	ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

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CLARKSVILLE, TN 37040

M-500
KITCHEN HOOD DETAILS

PANDA HOME 2600 R4

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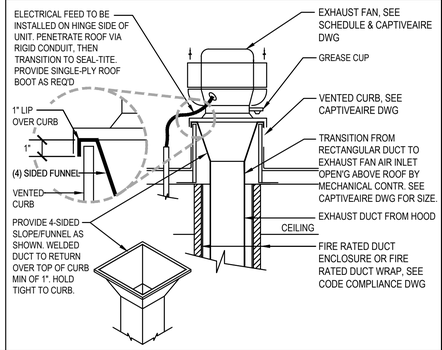
-	20		
Scale: NO SCALE	M-501		

-	16		
Scale: NO SCALE	M-501		

-	4		
Scale: NO SCALE	M-501		

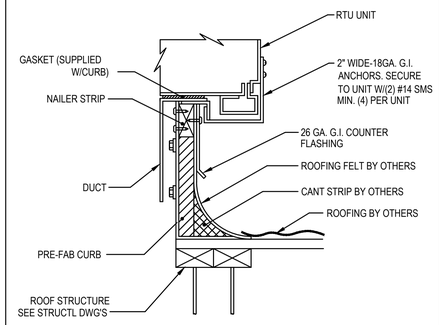


-	19		
Scale: NO SCALE	M-501		

-	15		
Scale: NO SCALE	M-501		

-	7		
Scale: NO SCALE	M-501		

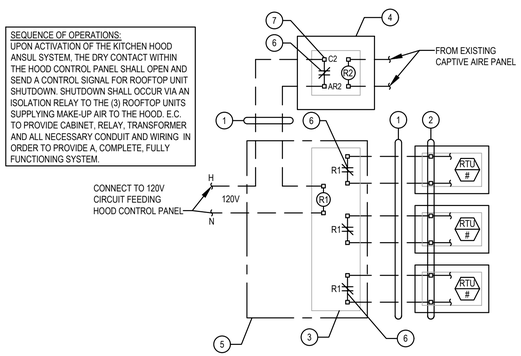
GREASE EXHAUST FAN DETAIL	3		
Scale: NO SCALE	M-501		



-	18		
Scale: NO SCALE	M-501		

-	14		
Scale: NO SCALE	M-501		

SEQUENCE OF OPERATIONS:
UPON ACTIVATION OF THE KITCHEN HOOD ANSUL SYSTEM, THE DRY CONTACT WITHIN THE HOOD CONTROL PANEL SHALL OPEN AND SEND A CONTROL SIGNAL FOR ROOFTOP UNIT SHUTDOWN. SHUTDOWN SHALL OCCUR VIA AN ISOLATION RELAY TO THE (3) ROOFTOP UNITS SUPPLYING MAKE-UP AIR TO THE HOOD. E.C. TO PROVIDE CABINET, RELAY, TRANSFORMER AND ALL NECESSARY CONDUIT AND WIRING IN ORDER TO PROVIDE A. COMPLETE, FULLY FUNCTIONING SYSTEM.



LEGEND

1. (2) #12 CONTROL WIRES IN 1/2" CONDUIT BY E.C.
2. M.C. TO CONNECT INTO REMOTE UNIT SHUTDOWN TERMINAL ON CARRIER ROOFTOP UNIT CONTROL BOARD AND REMOVE JUMPER. REFER TO MANUFACTURER FOR ADDITIONAL INFORMATION.
3. DPDT 120V RATED RELAY BY E.C. ENERGIZE FOR FAILSAFE OPERATION.
4. HOOD CONTROL PANEL AT KITCHEN.
5. 12X12X6 NEMA 1 CABINET MOUNTED ON WALL ADJACENT TO KITCHEN HOOD BY E.C.
6. N.O. DRY CONTACT (SHOWN ENERGIZED) THAT OPENS IN FIRE CONDITIONS.
7. 120V RATED DRY CONTACT WITHIN CAPTIVE AIRE PANEL.

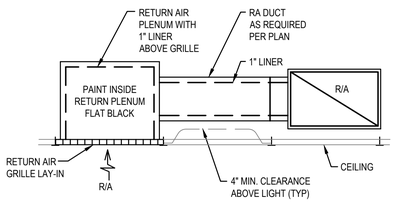
RTU UNIT CURB DETAIL	2		
Scale: NO SCALE	M-501		

-	17		
Scale: NO SCALE	M-501		

-	13		
Scale: NO SCALE	M-501		

RTU CONTROL WIRING DIAGRAM	5		
Scale: NO SCALE	M-501		

RETURN PLENUM	1		
Scale: NO SCALE	M-501		



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M-501

MECHANICAL DETAILS

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-23

ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

1.01 COORDINATION OF TRADES: SCHEDULE AND COORDINATE WORK WITH THAT OF OTHER DIVISIONS AND SECTIONS.
1.02 GUARANTEE IN WRITING THE ELECTRICAL INSTALLATION, AND ALL WORK UNDER THIS SECTION, FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER AGAINST ALL EVIDENCE OF IMPERFECT WORKMANSHIP OR FAILURE OR MALFUNCTION OF MATERIALS.

PART 2 - PRODUCTS

2.01 MATERIALS AND EQUIPMENT
A. MATERIAL FURNISHED UNDER THIS CONTRACT, UNLESS OTHERWISE NOTED, SHALL BE NEW, FREE FROM DEFECTS AND SHALL CONFORM WITH THE STANDARDS OF UL.
B. VOLTAGE, AMPERE, AND OTHER RATINGS OF EQUIPMENT SHALL BE SUITABLE FOR USE INTENDED. DISCONNECT SWITCHES SHALL BE PROPERLY HORSEPOWER RATED AND SUITABLE FOR VOLTAGE AND AMPERE RATING OF LOAD.
C. THE DRAWINGS GENERALLY INDICATES THE RACEWAY SIZE, THE NUMBER, SIZE, AND INSULATION TYPE OF CONDUCTORS TO BE PROVIDED AND INSTALLED. WHERE THESE ITEMS DO NOT MEET MINIMUM APPLICABLE CODES, FOR EQUIPMENT BEING SERVED, COMPLY AS REQUIRED AT NO ADDITIONAL COST.
2.02 RACEWAYS
A. GALVANIZED RIGID CONDUIT (GRC); INCLUDING ELBOWS AND COUPLINGS.
B. INTERMEDIATE METAL CONDUIT (IMC); INCLUDING ELBOWS AND COUPLINGS.
C. ELECTRIC METALLIC TUBING (EMT) WITH FITTINGS OF PRESSED STEEL OR MALLEABLE IRON, COMPRESSION TYPE (IN WET AREAS ONLY) WITH INSULATED THROATS.
D. RIGID NON-METALLIC CONDUIT: (PVC) U.L. LABELED SCHEDULE 40 P.V.C.
2.03 DEVICE AND JUNCTION BOXES: INCLUDE PLASTER RINGS, COVERS, AND KO SEALS AS REQUIRED.
2.04 WIRE AND CABLE: UNLESS OTHERWISE NOTED, WIRE AND CABLE SHALL BE SOFT DRAWN, ANNEALED COPPER. WIRE SIZES NO. 8 AND LARGER AND CONDUCTORS SERVING MOTORS AND SUBJECT TO VIBRATIONS SHALL BE STRANDED CABLE. INSULATION TO BE THWN/TTHN, JACKETED 90C INSULATED WIRE. PROVIDE WIRE COLOR IDENTIFICATION: NEUTRAL WIRE - WHITE, LIVE WIRE - BLACK, RED, BLUE ON 120/208 VOLT SYSTEM; NEUTRAL WIRE - GREY, LIVE WIRE - BROWN, ORANGE YELLOW ON 277/480 VOLT SYSTEM; GROUND - GREEN.
2.05 ADDED PANELS TO BE PANELBOARDS - LOAD CENTERS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY APPROVED.
2.06 **SERVICE ENTRANCE AND DISTRIBUTION GEAR BY G.E., SQUARE "D" OR CUTLER HAMMER OR SIEMENS ONLY. INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVER. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS ARE NOT ALLOWED.**
2.07 SWITCHBOARDS: COPPER BUSSING WITH FULL CAPACITY NEUTRAL.
2.11 120/208 VOLT AND 277/480 VOLT PANELBOARDS: 3 PHASE, 4 WIRE, COPPER BUS, COMPOSED OF AN ASSEMBLY OF BOLT-IN-PLACE MOLDED CASE CIRCUIT BREAKERS WITH THERMAL AND MAGNETIC TRIP AND TRIP FREE POSITION SEPARATE FROM EITHER ON OR OFF POSITIONS.
2.13 SAFETY SWITCHES: FUSED, HEAVY DUTY, HORSEPOWER RATED.
2.14 STARTERS, CONTACTORS AND CONTROL DEVICES: PROVIDE AS SHOWN AND AS REQUIRED BY CODE. FURNISH COMPLETE WITH PILOT LIGHTS, AUXILIARY CONTACTS, PUSH BUTTONS, HAND-OFF-ON SWITCHES, CONTROL DEVICES, AND OVERLOAD RELAYS. THERMAL OVERLOADS TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS. AMBIENTLY COMPENSATE ALL HEATERS EXPOSED TO HIGH TEMPERATURE OR INSTALLED OUTSIDE AS NEEDED.
2.16 NAMEPLATES: PROVIDE BLACK LAMICOID NAMEPLATES WITH 3/16" HIGH WHITE ENGRAVED LETTERS ON PANELS, SWITCHBOARDS, MAINS AND SUBMAINS, DISTRIBUTION EQUIPMENT, REMOTE SAFETY SWITCHES, CIRCUIT BREAKERS, TIME SWITCHES, CONTACTORS, AND STARTERS.
2.17 WIRING DEVICES
A. HUBBELL OR COMPARABLE LEVITON OR BRYANT: WHITE AND GREY IN COLOR - AS NOTED ON DRAWINGS OR PER ARCHITECT. 15 AMP DEVICES ALLOWED ONLY WHEN SPECIFICALLY DENOTED ON ELECTRICAL CONSTRUCTION DRAWINGS.
B. TOGGLE SWITCHES: SINGLE POLE - HUBBELL 1221- 20A, 120/277V, THREE WAY - HUBBELL 1223- 20A, 120/277V, FOUR WAY - HUBBELL 1224- 20A, 120/277V.
C. RECEPTACLES: DUPLEX GROUNDING TYPE, SPECIFICATION GRADE, 125 VOLT, 20 AMPERES, SINGLE PHASE, HUBBELL NO. 5262 OR COMPARABLE.
D. GROUND FAULT INTERRUPTER TYPE RECEPTACLE: DUPLEX GROUNDING TYPE, SPECIFICATION GRADE, 125 VOLT, 20 AMPERES, SINGLE PHASE, 5 mA GROUND TRIP, FEED THROUGH CONSTRUCTION.
2.18 DEVICE PLATES: LEXAN (STA-KLEEN), SMOOTH FINISH IN STAINLESS STEEL - AS NOTED ON PLANS. MULTI-GANG OUTLET PLATES SHALL BE USED FOR MULTI-GANG BOXES.
2.19 NOT USED.
2.20 LIGHTING FIXTURES
A. ALL INTERIOR / BUILDING MOUNTED LIGHTING PROVIDED BY PX AND INSTALLED BY E.C.
B. ALL EXTERIOR SITE LIGHTING IS PROVIDED AND INSTALLED BY E.C.

PART 3 - EXECUTION

3.01 GENERAL INSTALLATION
A. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE MADE IN A NEAT, APPROVED, FINISHED, AND SAFE MANNER.
B. INSPECT AND MAKE TIGHT ALL CONNECTIONS FOR ALL EQUIPMENT, INCLUDING FACTORY CONNECTIONS. TORQUE ALL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.
C. LIGHTING FIXTURES INSTALLED AND USED FOR LIGHTING DURING CONSTRUCTION SHALL BE RELAMPED WITH NEW LAMPS JUST PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
D. INSTALL SEISMIC RESTRAINT DEVICES FOR ALL CEILING MOUNTED EQUIPMENT, I.E. LAY-IN FIXTURES. PROVIDE GRID CLIPS AND #12 SLACK WIRES FROM FIXTURE CORNERS TO STRUCTURE.
3.02 RACEWAYS
A. INSTALL COMPLETE RACEWAY SYSTEMS FOR ALL ELECTRICAL CONDUCTORS INCLUDING TELEPHONE, SIGNAL, CONTROL, AND OTHER SYSTEMS.
B. UNLESS OTHERWISE NOTED, INSTALL ALL RACEWAYS CONCEALED. WHERE IT IS NOT FEASIBLE TO CONCEAL RACEWAYS, INSTALL AS DIRECTED BY ARCHITECT.
C. INSTALL EXPOSED RACEWAYS TO RUN PARALLEL OR AT RIGHT ANGLES TO STRUCTURAL BUILDING LINES WITH NEAT BENDS AND NEATLY OFFSET INTO TERMINATIONS.
D. IN EMPTY RACEWAY PROVIDE AND INSTALL A NO. 14 NYLON DRAG LINE.
E. INSTALL RACEWAYS WITH APPROVED HEAVY DUTY SUPPORTS, STRAPS, HANGERS, CONNECTORS, AND COUPLINGS AS REQUIRED TO MAINTAIN AN APPROVED INSTALLATION.
F. NOT USED.
H. MINIMUM CONDUIT SIZE TO BE 3/4" U.N.O.
3.03 GALVANIZED RIGID CONDUIT (GRC): ALL RACEWAYS SHALL BE GRC EXCEPT AS NOTED. CONDUIT, ELBOWS, AND STANDARD COUPLINGS SHALL BE HOT DIPPED GALVANIZED RIGID STEEL. IF PARTITIONS OR WALLS ARE SOLID CONCRETE OR ARE GROUTED SOLID WITH CONCRETE OR MORTAR, RIGID STEEL CONDUIT SHALL BE USED.
3.04 INTERMEDIATE METAL CONDUIT (IMC): IMC RACEWAY AND APPROVED FITTINGS WHERE PERMITTED BY APPLICABLE CODES AND REGULATIONS MAY BE USED IN LIEU OF RIGID STEEL CONDUIT, WHERE INSTALLED ABOVE FINISH GRADE AND ABOVE CONCRETE SLABS ON GRADE.
3.05 ELECTRIC METALLIC TUBING (EMT): EMT MAY BE USED WHERE CONCEALED IN AREAS ABOVE CEILINGS, FURRED SPACES, PARTITIONS OR WALLS. ALSO MAY BE EXPOSED, WHEN NOT IN HAZARDOUS AREAS, AREAS SUBJECT TO PHYSICAL DAMAGE, OR WHEN DIRECTLY EXPOSED TO RAIN OR WASH-DOWN.
3.06 FLEXIBLE METAL CONDUIT (FLEX): USE FLEXIBLE CONDUITS FOR CONNECTIONS TO MOTORS, WHERE SUBJECT TO MOVEMENT OR VIBRATION, AND LIQUID TIGHT WHERE EXPOSED TO MOISTURE OR OIL.
3.07 RIGID NONMETALLIC CONDUIT PVC SCHEDULE 40 MAY BE INSTALLED FOR DIRECT BURIAL RACEWAYS WHERE INSTALLED WITH MINIMUM COVERAGE PER NEC TABLE 300-5. ALL UNDERGROUND BENDS SHALL BE GRC.
3.08 OUTLET, PULL AND JUNCTION BOXES
A. UNLESS OTHERWISE SHOWN OR AS DIRECTED PRIOR TO INSTALLATION, OUTLET BOXES SHALL GENERALLY BE PLACED AT THE FOLLOWING HEIGHTS, CENTER OF BOX TO FINISHED FLOOR LEVEL.
B. WALL SWITCHES: 44".
C. CONVENIENCE RECEPTACLES: 18" (OR 4" ABOVE COUNTERS) AND/OR AS NOTED. (SIMILAR TYPE OUTLETS SHALL BE MOUNTED AT SAME HEIGHT IN EACH AREA). GROUNDING PIN AT BOTTOM.
D. OTHER OUTLET TYPES: REFER TO ELECTRICAL SYMBOL LIST ON THIS SHEET.
3.09 CONDUCTORS (COPPER ONLY)
A. USE SPECIFIED COLOR SCHEDULE FOR ALL WIRING. WHERE LARGE CONDUCTORS ARE NOT AVAILABLE IN COLORS, IDENTIFY WITH PERMANENT COLORED TAPE AT ALL TERMINATIONS, JUNCTION BOXES, ETC. COLOR CODING PER NEC.
B. MAKE TAPS, JOINTS, SPLICES, AND OTHER CONNECTIONS WITH FIXTURE CONNECTORS.
C. DO NOT INSTALL WIRING OR PULL WIRES, IN RACEWAYS UNTIL RACEWAY SYSTEM IS COMPLETE, CLEAN, DRY, AND FREE OF ALL FOREIGN MATERIALS. LUBRICATE AS REQUIRED.
D. MINIMUM CONDUCTOR SIZE TO BE #12 CU. THWN.
3.10 LIGHTING FIXTURES
A. LEAVE FIXTURES AND LAMPS CLEAN OF ALL DIRT, DUST, GREASE SPOTS AND DEBRIS. ALL GLASS, PLASTIC AND OTHER COMPONENTS SHALL BE UNSCRATCHED AND UNBROKEN.
B. FIT AND ADJUST ALL FIXTURES. WHERE STRUCTURAL CONDITIONS, PARTITIONS, FURNITURE, SHELVING, AND AIR CONDITIONING DIFFUSERS INTERFERE WITH THE LIGHTING FIXTURES AT LOCATIONS SHOWN, NOTIFY ARCHITECT IN WRITING AND RELOCATE AT NO ADDITIONAL COST AS DIRECTED.
C. FIXTURES WITH FINISH TRIM OR LENS FRAMES SHALL BE GASKETED AND BAFFLED TO PREVENT LIGHT LEAKS. INSTALL SO THAT NO LIGHT LEAKS EXIST.
D. FIXTURES MOUNTED DIRECTLY ON COMBUSTIBLE LOW-DENSITY CEILINGS SHALL MEET UL APPROVAL FOR THIS CONDITION AND BE PLAINLY MARKED AS SUCH.
3.11 GROUNDING
A. GROUNDING FOR DISTRIBUTION EQUIPMENT, EQUIPMENT AND MATERIALS WITH ELECTRICAL CONNECTIONS, ELECTRIC MOTOR FRAMES, ELECTRIC RACEWAY AND RELATED EQUIPMENT, SHALL BE EFFECTIVELY AND PERMANENTLY GROUNDED IN ACCORDANCE WITH PERTINENT SECTIONS OF ARTICLE 250 OF NEC. RESISTANCE TO GROUND SHALL NOT EXCEED 10 OHMS.
B. ALL RACEWAYS SHALL HAVE AN APPROVED SIZED, INSULATED, STRANDED COPPER GROUNDING CONDUCTOR.
C. WHERE RACEWAYS CONNECT TO A CONCENTRIC K.O. PROVIDE GROUNDING LOCKNUT OR BUSHING AND BOND WIRE EXTENDED AND BONDED TO ENCLOSURE, SIZE AS PER NEC.
3.12 DITCHING, EXCAVATION AND BACKFILLING: PERFORM ALL DITCHING, EXCAVATION AND BACKFILLING REQUIRED FOR THE ELECTRICAL WORK. PROVIDE AND MAINTAIN ALL SHEATHING, BRACING AND PROPER GUARDS FOR PREVENTION OF ACCIDENTS.
3.13 UTILITY COMPANY SERVICE CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING AND PROVIDING REQUIRED WORK FOR SUPPLYING ELECTRICAL POWER AND COMMUNICATIONS UTILITIES TO THE PROJECT.
3.14 FINAL INSPECTION: TEST SYSTEM FOR SHORTS AND OPENS. FAULTY WIRING SHALL BE REMOVED AND REPLACED. AFTER SYSTEM IS CONNECTED COMPLETELY, TEST FOR INSULATION RESISTANCE. RESISTANCE LOWER THAN OUTLINED IN THE NEC, MANUFACTURER'S DATA, ETC., SHALL BE REMOVED AND REPLACED. ANY DEVICE, APPARATUS OR FIXTURE UNDER THIS CONTRACT SHOWING SUBSTANDARD READINGS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ARCHITECT.
3.15 LABEL ALL RECEPTACLES WITH 3/16" HIGH BLACK LETTERING ON CLEAR TAPE. IF THE RECEPTACLE IS BLACK OR BROWN, PROVIDE WHITE LETTERING ON CLEAR TAPE. LABEL TO BE NEATLY CENTERED IN THE TOP SPACE OF THE COVERPLATE, AND SHALL INDICATE THE SERVING PANEL AND CIRCUIT ORIGIN.

ELECTRICAL SPECIFICATIONS	3
NOT TO SCALE	E-000

GENERAL NOTES

1. THE ELECTRICAL DRAWINGS, SPECIFICATIONS AND GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND THE DOCUMENTS SHALL BE USED FOR THE PURPOSE OF BIDDING, BUILDING DEPARTMENT REVIEW, AND TO SECURE THE NECESSARY CONSTRUCTION PERMIT ONLY.
2. BRANCH CIRCUITING AND WIRE COUNT MAY NOT BE INDICATED ON THESE PLANS. CONTRACTOR IS RESPONSIBLE TO COMPLETE THE BRANCH CIRCUIT WIRING IN ACCORDANCE WITH PLAN NOTES AND AS PERMITTED BY AUTHORITY. CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS AS A PART OF RECORD DRAWING SUBMITTAL TO ARCHITECT AND AUTHORITY HAVING JURISDICTION (AHJ).
3. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH BOTH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES / AMENDMENTS. WHERE CONFLICTS ARISE, THE MOST STRINGENT REQUIREMENT SHALL TAKE PRECEDENCE.
4. ALL ELECTRICAL EQUIPMENT SHOWN IS NEW, CONTRACTOR FURNISHED AND INSTALLED, UNLESS OTHERWISE NOTED. IF CONTRACTOR PROPOSES TO SUBSTITUTE SPECIFIC EQUIPMENT SPECIFIED, A REQUEST FOR CONSIDERATION SHALL BE SUBMITTED TO THE OWNER AND ENGINEER PRIOR TO THE BID IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. NO SUBSTITUTIONS SHALL BE IMPLEMENTED WITHOUT THE APPROVAL OF THE ENGINEER OR RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE, AT HIS OWN EXPENSE, FOR ANY CHANGE RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, OR SUBSTITUTIONS WHICH AFFECT THE WORK OF OTHER CONTRACTORS.
5. THE ELECTRICAL DRAWINGS, CONDUIT RUNS, WIRING AND ELECTRICAL INFORMATION ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE EXACT LOCATION OF EQUIPMENT OR OUTLETS. COORDINATE WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
6. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES, CEILING MOUNTED OUTLETS AND EQUIPMENT.
7. ALL DEVICE MOUNTING HEIGHTS AND EXACT LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPES OF CEILING SYSTEM. FIXTURES LOCATED IN DAMP OR WET LOCATIONS SHALL BE LISTED AND LABELED FOR USE IN SUCH LOCATIONS. CONTRACTOR SHALL PROVIDE ALL REQUIRED TRIMS AND HARDWARE TO ACCOMMODATE CEILING TYPE.
9. ALL RECESSED LIGHTING FIXTURES, PANELBOARDS, SWITCHES, ETC., MOUNTED IN FIRE RATED STRUCTURES SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE STRUCTURE. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS, FLOORS, ETC., TO MAINTAIN THE FIRE RATING. FURNISH AND INSTALL FIRE RATED ENCLOSURE FOR ALL EQUIPMENT PENETRATING INTO FIRE RATED ENVELOPS, SPACES ETC.
10. PORTIONS OF THE CEILING SYSTEMS MAY BE INACCESSIBLE, THEREFORE, THE CONTRACTOR SHALL STRATEGICALLY LOCATE ACCESS BOXES, ETC., WHICH SHALL BE READILY ACCESSIBLE. ALL LIGHTING FIXTURE WIRING, BALLASTS, J-BOXES, ETC. SHALL BE ACCESSIBLE FROM FIXTURE OPENING.
11. ALL WIRING AND ELECTRICAL EQUIPMENT SERVING MECHANICAL AND PLUMBING EQUIPMENT SHALL BE IN ACCORDANCE WITH MECHANICAL AND PLUMBING SPECIFICATIONS AND ASSOCIATED DRAWINGS. CONTRACTOR SHALL OBTAIN THE REQUIRED MECHANICAL AND PLUMBING DRAWINGS AND PROVIDE ALL EQUIPMENT, RACEWAYS, WIRING, FITTINGS, ETC., AS INDICATED ON CONSTRUCTION DOCUMENTS.
12. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED. VERIFY ELECTRICAL CHARACTERISTICS AND U.L. LISTING PRIOR TO CONNECTION.
13. THE CONTRACTOR SHALL VERIFY THE LOAD AND INPUT VOLTAGE OF ALL PROVIDED EQUIPMENT TO MATCH LOAD INPUT OF ALL EQUIPMENT BEING SUBSTITUTED.
14. ELECTRICAL OUTLETS ON OPPOSITE SIDES OF FIRE RATED WALLS AND PARTITIONS MUST BE SEPARATED BY DISTANCE OF 24 IN. HORIZONTALLY, IN ACCORDANCE WITH I.B.C. SEC. 711.3.2. OPENINGS IN FIRE RATED WALLS MUST BE FIRE STOPPED.
15. PROVIDE AN ADDITIONAL JUNCTION BOX EXTENSION RING (SIZE AS REQUIRED) WHERE THE NUMBER OF CONDUCTORS EXCEEDS THE MAXIMUM ALLOWED FOR A GIVEN JUNCTION POINT OR OUTLET.
16. CONDUCTORS SHALL BE COPPER THHN/THWN 600 VOLT INSULATION UNLESS OTHERWISE NOTED. USE PROPER TEMPERATURE RATING OF CONDUCTORS BASED ON THE AMBIENT AIR TEMPERATURE WHERE CONDUCTORS ARE BEING USED. HIGHER AMPACITY CONDUCTOR AND LARGER RACEWAY SHALL BE PROVIDED TO OFFSET THE AMPACITY CORRECTION FACTORS AS INDICATED IN NEC ARTICLE 310 AND ELSEWHERE IN CODE.
17. ALL LIGHTING FIXTURES PROVIDED BY PANDA EXPRESS INSTALLED BY GC UNLESS NOTED OTHERWISE.
18. DO ALL DRILLING, CUTTING, AND/OR CHANNELING AS REQUIRED FOR ELECTRICAL WORK INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL EXPOSED ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTING TO MATCH IN COLOR TO ADJACENT SURFACES IN FINISHED AREAS. (PROTECT UL LISTINGS LABELS FROM PAINT).
19. EMERGENCY LIGHTING SHALL BE PROVIDED PER U.B.C. PROVIDE ADDITIONAL EMERGENCY ILLUMINATION AS REQUIRED BY AUTHORITIES HAVING JURISDICTIONS.
20. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA.

FIXED EQUIPMENT ON GRADE: OPERATING WEIGHT	33% OF
FIXED EQUIPMENT ON STRUCTURE: OPERATING WEIGHT	50% OF
EMERGENCY POWER AND COMMUNICATION & EQUIPMENT ON GRADE: OPERATING WEIGHT	50% OF
EMERGENCY POWER AND COMMUNICATION ON STRUCTURE: OPERATING WEIGHT	75% OF

FOR FLEXIBLE MOUNTED EQUIPMENT DOUBLE THE ABOVE VALUES. SIMULTANEOUS VERTICAL FORCE - USE 1/3 HORIZONTAL FORCE. CONDUIT, BUSDUCT, CABLE TRAY, WIREWAYS, ETC., SHALL BE BRACED IN ACCORDANCE WITH "GUILDELINES", PUBLISHED BY SMACNA AND PPIC.

GENERAL NOTES	2
NOT TO SCALE	E-000

NOTICE
THESE DRAWINGS ARE SUBJECT TO APPROVAL BY THE BUILDING DEPARTMENT, FIRE MARSHAL, UTILITY COMPANY AND OTHER AUTHORITIES HAVING JURISDICTION (AHJ). BY THE ACT OF SUBMITTING A BID PROPOSAL FOR WORK, THE CONTRACTOR INDICATES THAT HE OR SHE HAS REVIEWED THE PLANS THOROUGHLY AND ACCEPTED FULL RESPONSIBILITY OF PLAN CORRECTIONS AND ASSOCIATED CONSTRUCTION COSTS REQUIRED BY AHJ.

MC CABLE SHALL NOT BE USED. PREWIRED MC CABLE WHIPS FROM LIGHTING FIXTURES ARE ACCEPTABLE WHEN SUPPLIED WITH THE FIXTURE AND NO LONGER THAN 72".

ELECTRICIAN TO PROVIDE STAINLESS STEEL COVER PLATES FOR ALL LOW VOLTAGE OUTLETS.

IF PROVIDED UNDER SLAB ALL UNDERGROUND CONDUIT SHALL BE 12" BELOW FINISHED GRADE.

ELECTRICAL SYMBOLS LIST

NOTE: ALL DIMENSIONS GIVEN ARE TO DEVICE CENTERLINES. CONTRACTOR TO COORDINATE ALL INSTALLATIONS.

POWER DISTRIBUTION

- S_M SINGLE-POLE SWITCH, MANUAL MOTOR STARTER
- J-BOX (WITH FLEX CONNECTION TO EQUIPMENT.)
- DISCONNECT SWITCH, WITH RATING AS SHOWN ON PLANS
- COMBINATION DISCONNECT SWITCH / MOTOR STARTER FURNISHED BY ELECTRICAL CONTRACTOR.
- BRANCH CIRCUITRY CONCEALED IN WALL OR CEILING WITH ADDITIONAL #12 INSULATED GND. U.N.O. HACHURES INDICATE NUMBER OF CURRENT CARRYING CONDUCTORS. 'X' INDICATES ADDITIONAL INSULATED, ISOLATED GROUND CONDUCTORS.
- BRANCH CIRCUITRY HOMERUN TO PANEL AS NOTED ON PLANS
- INDICATES EXTERIOR UNDERGROUND WIRE RUNS.

LIGHTING & LIGHTING CONTROLS

- L1 LIGHTING FIXTURE. SUBSCRIPT LETTER DENOTES FIXTURE TYPE AS DESCRIBED IN LIGHT FIXTURE SCHEDULE.
- $ SINGLE-POLE SWITCH @ 44" A.F.F. U.N.O. LOWER CASE LETTER DENOTES FIXTURE CONTROL. 300V. 20A.
- a $D LEVITON Renoir II WALLBOX DIMMER - SINGLE-POLE SWITCH @ 44" A.F.F. U.N.O. LOWER CASE LETTER DENOTES FIXTURE CONTROL. 120V, BALLAST 0-10V
- OS$ OCCUPANCY SENSOR SWITCH WITH OFF CONTROL, AND ADJUSTABLE SETTINGS FOR TIME OFF DELAY, FOOTCANDLE LEVEL, AND MASKING. WATTSTOPPER OR EQUAL, MOUNT AT 44" A.F.F. U.N.O. USE PW-100 FOR OFFICES/CONF/ETC.
- DS LEVITON PROVOLT 05C20-MDW DIMMING DAYLIGHT SENSOR FOR SIDELIT DAYLIGHTING ZONES. LOCATE AND INSTALL PER MANUFACTURER'S INSTRUCTIONS. ALL CONTROLS SHALL COMPLY WITH LOCAL ENERGY CODE REQUIREMENTS. PROVIDE LOCAL MANUAL SWITCH AS SHOWN IN THE LIGHTING PLAN FOR ON / OFF CONTROL
- INTERIOR LIGHTING SHUT DOWN OVERRIDE. 20 AMP 60-MINUTE INDOOR IN-WALL SPRING WOUND COUNTDOWN TIMER, WHITE BY INTERMATIC.

ABBREVIATIONS

A	AMPERES	M.C.B.	MAIN CIRCUIT BREAKER
AL	ALUMINUM	M.L.O.	MAIN LUGS ONLY
A.F.F.	ABOVE FINISHED FLOOR	MTD.	MOUNTED
A.F.G.	ABOVE FINISHED GRADE	P.	POLE
C.	CONDUIT	SW.	SWITCH
C/B	CIRCUIT BREAKER	T.M.B.	TELEPHONE MOUNTING BOARD
CU.	COPPER	TYP.	TYPICAL
DISC.	DISCONNECT	U.N.O.	UNLESS NOTED OTHERWISE
F.	FUSE	V.	VOLTS
GFI	GROUND FAULT CURRENT INTERRUPTER	W.	WIRE
GND.	GROUND	W.P.	WEATHERPROOF
H.P.	HORSE POWER	XFMR	TRANSFORMER
k	1000	Ø	PHASE
E.C.	ELECTRICAL CONTRACTOR		
G.C.	GENERAL CONTRACTOR		

RECEPTACLES & COMMUNICATIONS OUTLETS

- DUPLEX CONVENIENCE OUTLET, 20A, 125V, MTD @ 18" A.F.F. U.N.O.
- SIMPLEX CONVENIENCE OUTLET, 20A, 125V, MTD @ 18" A.F.F. U.N.O.
- ISOLATED GROUND SIMPLEX CONVENIENCE OUTLET (ORANGE), 20A.,125V., MTD @ +18" A.F.F.
- DUPLEX CONVENIENCE OUTLET MOUNTED 3" ABOVE COUNTERTOP BACKSPLASH OR APPROXIMATELY 44" A.F.F.
- GFCI DUPLEX CONVENIENCE OUTLET, 20A, 125V, 5 mA TRIP, MTD @ 18" A.F.F. U.N.O.
- GFCI DUPLEX CONVENIENCE OUTLET MOUNTED 3" ABOVE COUNTERTOP BACKSPLASH OR APPROXIMATELY 44" A.F.F.
- TELEPHONE OUTLET. PROVIDE FLUSH J-BOX @ + 18" AFF U.N.O W/ 1" CONDUIT W/ PULL WIRE TO MANAGER'S STATION. 'W' SUBSCRIPT INDICATES WALL PHONE AT 54" AFF.
- DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" A.F.F. U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION.
- COMBINATION TEL/DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" AFF U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION.
- T.V. SYSTEM DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" A.F.F. U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION. WHEN SHOWN ADJACENT RECEPTACLE, MOUNT AT RECEPTACLE HEIGHT. REFER TO RECEPTACLE FOR MOUNTING HEIGHT.
- SPECIAL PURPOSE RECEPTACLE MTD. @ 18" A.F.F. U.N.O., AMPERAGE AND PHASE AS NOTED ON PLANS, NEMA CONFIGURATION AS REQ'D.
- ISOLATED GROUND DUPLEX CONVENIENCE OUTLET (ORANGE), 20A.,125V., MTD @ +18" A.F.F.
- DOUBLE DUPLEX CONVENIENCE OUTLETS UNDER COMMON COVER
- ISOLATED DOUBLE DUPLEX CONVENIENCE OUTLETS (ORANGE) 20A.,125V.
- S SPEAKER

FIRE ALARM

- MANUAL PULL STATION WITH KEYED RESET. MOUNT UNIT AT 44" A.F.F. ALIGN WITH LIGHT SWITCH IF APPLICABLE.
- XENON STROBE UNIT MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING (WHICHEVER IS LOWER). MUST MEET OR EXCEED A.D.A. REQUIREMENTS.
- COMBINATION XENON STROBE AND HORN/CHIME UNIT MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING (WHICHEVER IS LOWER). UNIT MUST MEET OR EXCEED A.D.A. REQUIREMENTS.
- FACP FIRE ALARM CONTROL PANEL. MOUNT TOP OF UNIT AT 72" A.F.F.
- FAAP FIRE ALARM ANNUNCIATION PANEL. MOUNT TOP OF UNIT AT 72" A.F.F.
- PHOTO ELECTRIC TYPE SMOKE DETECTOR.
- DUCT MOUNTED PHOTO ELECTRIC SMOKE DETECTOR.
- RATE OF RISE HEAT DETECTOR.

ELECTRICAL SYMBOLS	1
NOT TO SCALE	E-000

ISSUE FOR BID 01-30-23

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ISSUE FOR BID	01-30-23

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PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

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01/30/2023

PANDA EXPRESS
PANDA HOME 2600
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E-000
ELECTRICAL SYMBOLS
SPECIFICATIONS, NOTES

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-23

LIGHTING FIXTURE SCHEDULE

PROVIDED FOR INFORMATION ONLY.
VERIFY AND INSTALL PER ELECTRICAL DRAWING

03-04-22

ITEM	SYMBOL	DESCRIPTION	QTY.	MFR. & CAT. NO.	REMARK
INTERIOR LIGHTING ITEM					
L1	L1	T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	13	LSI FIXTURE: SFP24-LED-FS-UNV-DIM	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC
L1B	L1B	T-BAR CEILING RECESSED MOUNTED LED LIGHTING EMERGENCY FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	0	LSI FIXTURE: SFP22-LED-FS-DIM	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC
L1C	L1C	T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 1' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	0	LSI FIXTURE: SFP14-LED-FS-UNV-DIM	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC
L1EM	L1EM	T-BAR CEILING RECESSED MOUNTED LED LIGHTING EMERGENCY FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	4	LSI FIXTURE: SFP24-LED-FS-UNV-DIM-EM	EMERGENCY KITCHEN CEILING LIGHTS FURNISHED BY OWNER INSTALLED BY GC
L4HO	L4HO	UNIVERSAL MOUNT EXIT SIGN, LED LIGHTED, 120/277V WITH BATTERY PACK, 2 FACE, GREEN LETTER	4	EXITRONIX GVEX-U-BP-WB-BL-R6	EXIT SIGN FURNISHED BY OWNER, INSTALLED BY GC
L6A	L6A	HOOD LIGHT	12	FURNISHED & INSTALLED BY EQUIPMENT SUPPLIER	LIGHTS SUPPLIED & PRE-WIRED BY HOOD VENDOR. ELECTRIC CONTRACTOR TO CONNECT MAIN WIRES TO SHUNT TRIP BREAKER AND HOOD CONTROL PANEL
L6B	L6B	WALK-IN COOLER FLUORESCENT LIGHT, 120 V 48"	3	KASON FIXTURE: # 1181OLCT400 (1)	FURNISHED BY WIC VENDOR, G.R.E. , INSTALLED BY GC
L19	L19	DOWN LIGHT, RECESSED IN CEILING	27	ELITE HOUSING: LD6IC-AT ELITE TRIM: RL631-950L-DIMTR-120-30K-90-RL631-RT-W-WH	FURNISHED BY OWNER, INSTALLED BY GC
L19	L19B	DOWN LIGHT, RECESSED IN CEILING "B" SHALL DESIGNATE BLACK TRIM	9	ELITE HOUSING: LD6IC-AT ELITE TRIM: RL631-950L-DIMTR-120-30K-90-RL631-RT-MB-BK	FURNISHED BY OWNER, INSTALLED BY GC
L19EM	L19EM	EMERGENCY DOWN LIGHT, RECESSED IN CEILING	6	ELITE HOUSING: LD6IC-AT ELITE TRIM: RL631-950L-DIMTR-120-30K-90-RL631-RT-W-WH	EMERGENCY RECESSED DOWN LIGHT - NORMALLY ON INVERTER UNIT - ISOLITE, IMI-12-LC-V1 FURNISHED BY OWNER INSTALLED BY GC
L20	L20W	4" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING "W" SHALL DESIGNATE WHITE TRIM	6	ELITE HOUSING: BL4-50-M-120-AT-W ELITE TRIM: B1406-WH	FURNISHED BY OWNER, INSTALLED BY GC
L20	L20B	4" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING "B" SHALL DESIGNATE BLACK TRIM	8	ELITE HOUSING: BL4-50-M-120-AT-W ELITE TRIM: B1406-BK	FURNISHED BY OWNER, INSTALLED BY GC
L30	L30	WHITE LED AT DINING ROOM CANOPY	33 L.F.	ZLED FIXTURE: VIL-SIGN-60W-WHT-DC-66MOD-STRING-KIT	FURNISHED BY OWNER, INSTALLED BY GC
L32	L32	WHITE LED AT FIXTURE LOW WALL	23 L.F.	NOVA FLEX - PRO SERIES FIXTURE: NF-CH-3525-2M WHITE	FURNISHED BY OWNER, INSTALLED BY GC
L49	L49	BRONZE SWOOP LIGHT	5	FIXTURE - TBD	DINING AREA - FURNISHED BY OWNER, INSTALLED BY GC
L50R	L50R	12" DIA. PENDANT	3	KAI PENDANT 2 BULB: LED EDISON LAMP.1173467	FURNISHED BY OWNER, INSTALLED BY GC
L100	L100	MICRO INVERTER	1	EVENLITE #PWII12LC (1)	FURNISHED BY OWNER, INSTALLED BY GC
	S	SPEAKER		-	FURNISHED BY MUSIC VENDOR, INSTALLED BY MUSIC VENDOR

NIGHT LIGHTING REQUIREMENTS: "NL" DESIGNATION INDICATED NIGHT LIGHT ON UNSWITCHED CIRCUIT.
1. ONE NL BY SERVICE COUNTER, POS / CASHIER
2. ONE NL BY POS / CASHIER AT DRIVE THRU STATION IF APPLICABLE
3. ONE NL BY EACH EXIT DOORS IN DINNING ROOM & BACK OF HOUSE

EXTERIOR LIGHTING					
L40	L40	LINEAR LIGHT AT EXTERIOR STORAGE ROOM	1	COOPER MX-4VT2-LD4-6-DR-UNV-L840-CD1-WL-U	FURNISHED BY OWNER, INSTALLED BY GC
L85		WALL MOUNTED OVER SERVICE DOOR FIXTURE	1	ORACLE: OWP-FC-116-LED-3500L-DIM10-MVOLT-50K-BK	OVER EXTERIOR SERVICE DOOR. REFER ELEVATIONS FOR HEIGHT FURNISHED BY OWNER, INSTALLED BY GC
L86		NAVILITE EMERGENCY LIGHT	4	EXITRONIX MLED1-G-WP	OVER EXTERIOR ENTRANCE & SERVICE DOORS. REFER ELEVATIONS FOR HEIGHT. FURNISHED BY OWNER, INSTALLED BY GC
L86 AEM		EXTERIOR RECESS EMERGENCY LIGHT	0	ELITE HOUSING: LD6IC-AT LED MODULE: ELITE LED LIGHTING WET LOCATION: RL607-14W-120-FL-30K-SN-SN -WET LOCATION	EMERGENCY RECESSED DOWN LIGHT - NORMALLY ON INVERTER UNIT - ISOLITE, IMI-12-LC-V1 FURNISHED BY OWNER INSTALLED BY GC
L90 BL		DECORATIVE LED WALL SCONCE	4	HINKLEY LIGHTING, ATLANTIS; BLACK; 16495K-LED	AT ENTRY DOORS. REFER ELEVATIONS FOR HEIGHT FURNISHED BY OWNER, INSTALLED BY GC
L91		DECORATIVE LED WALL SCONCE	0	HINKLEY LIGHTING, SILO; BRONZE; 13594AZ-LL; LED	ALONG REAR EIFS BAND FURNISHED BY OWNER, INSTALLED BY GC
L92		WALL MOUNTED OVER SERVICE DOOR FIXTURE	0	LITHONIA LIGHTING WPX1 LED P2 40K MVOLT SDBXD M4	OVER DRIVE THRU AREA SERVICE DOOR FURNISHED BY OWNER, INSTALLED BY GC
L97		LED MOTION SECURITY FLOODLIGHT	3	LITHONIA LIGHTING HGX LED 2RH 40K 120 MO DDB M2	INTERIOR LIGHT SENSOR TO BE WALL MOUNTED AT +142" FURNISHED BY OWNER, INSTALLED BY GC

CEILING SCHEDULE

INSTALLED AND FURNISHED BY. G.C. UNLESS NOTED OTHERWISE

NO	MANUFACTURER	DESCRIPTION	MATERIAL	FINISH
C1	ARMSTRONG	2' X 2' SUSPENDED T-BAR GRID CEILING SYSTEM	OPTIMA 9/16" SQUARE TEGULAR ITEM # 3251	SUSPENSION SYSTEM: 9/16" SUPRAFINE; COLOR: BLIZZARD WHITE CONTACT: SHERRY BRUNT (1-800-442-4212)
C2	USG	2' X 4' SUSPENDED T-BAR GRID CEILING SYSTEM	"VINYL ROCK" VINYL CLAD GYP. BD PANELS	SMOOTH AND WASHABLE WHITE
C3	GOLD BOND	MONOLITHIC CEILING ON METAL FRAMING	5/8" GYP. BD.	SMOOTH PAINT - WHITE AND WASHABLE

SEE SHEET A-103 FOR PAINT SCHEDULE

EQUIPMENT SCHEDULE

03-04-22

PLUMBING
FS INDIRECT CONNECTION TO FLOOR SINK
D DIRECT CONNECTION
RIH ROUGH IN HEIGHT (TO CENTER OF CONNECTION)

ELECTRICAL
D DIRECT CONNECTION
C CONVENIENT OUTLET
FSO FLOOR STUB OUT
DC DROPPED CORD

DESCRIPTION
O OWNER(PANDA EXPRESS, INC.)
GC GENERAL CONTRACTOR
EC ELECTRICAL CONTRACTOR
KEC KITCHEN EQUIPMENT COMPANY
S SERVING AREA
K KITCHEN
(E) EXISTING

SUPPLY BY	GAS K BTU	GAS R.I.H.	GAS SIZE	WASTE TYPE	WASTE SIZE	COLD WATER R.I.H.	COLD WATER SIZE	HOT WATER R.I.H.	HOT WATER SIZE	CONNECTION R.I.H.	CONNECTION TYPE	LOAD WATT	PHASE	H.P.	VOLTS	REMARKS	DIMENSIONS W x D x H (# x H)	MANUFACTURE	MODEL #	EQUIPMENT	NO.
																				SERVING AREA EQUIPMENT	
O																SEE DETAIL	SEE PLAN	KEC	CUSTOM	HOT WELLS COUNTER, SERVICE	1B
O																SEE DETAIL	SEE PLAN	KEC	CUSTOM	SNEEZE GUARD	1S2
O											D	475W	1		120	3 HEATING ELEMENTS	42.375" X 4.25" X 2.375"	GENERAL		43" RADIANT TOP HEATER	1S2b1
O											D	625W	1		120	4 HEATING ELEMENTS	55.375" X 4.25" X 2.625"	GENERAL		56" RADIANT TOP HEATER (2)	1S2b2
O										REF. ELEC.	D	475W	1		120	3 HEATING ELEMENTS	42 1/8"x4.25"x2 5/8"	GENERAL		43" RADIANT TOP HEATER (2)	1S2-S1d
O											D	15A	1		120	SEE DETAIL	SEE PLAN	KEC	CUSTOM	CASHIER & BEVERAGE COUNTER	2Q
O											C	650W	1		120	INDUCTION WARMER	15 3/4" DIA	I/O CONTROLS CORP	ABC-065-14	INDUCTION WELL - 17QT	3F
O											C	650W	1		120	INDUCTION WARMER	12 1/8" DIA	I/O CONTROLS CORP	ABC-065-10	INDUCTION WELL - 11QT	3G
O				FS	3/4"						C	9.3A	1		120	W/LID DISPENSER	30"x30"x35"	CORNELIUS	IDC-255	BEVERAGE DISPENSER	4AB
O										66"	C	7.2A	1		120	ON S/S SHELF	15"x11"X16"	**WELBILT**	**16-2172**	BOOSTER	4B
O																	40"x18"	**WELBILT**	**15-2903-IP**	SODA RACK	4C
O																	#22"	ESPRIGAS	PER MFG	CO2 TANK	4D
O																		CO2Meter.com	RAD-0102-6	CO2 MONITOR & DISPLAY	4D-S1
O				FS	1/2"												34"x17"x6 1/2"	KEC	CUSTOM	36" COLD PAN	5C
O																	SEE PLAN	KEC	CUSTOM	S/S COUNTER WITH SINK	6B
O										REF. ELEC.							SEE PLAN	KEC	CUSTOM	MOBILE HOT WELLS COUNTER - DT	6M
O																	SEE PLAN	KEC	CUSTOM	S/S COUNTER - DT	8J
O										24"							SEE PLAN	KEC	CUSTOM	CASHIER & BEVERAGE COUNTER- DT	9B
O										24"	C	14.8A	1		120	NEMA 5 PLUG	11" X 22" X 34"	BUNN	TB3	ICED TEA BREWER (2)	9D
O				FS	1/2"	24"	1/2"			84"	C	1.1A	1		120	---	22" X 14" X 26.5"	MANITOWOC	**IB-0894YC**	800 LBS. ICE MACHINE	10J
O										16"	D	11.8A	1		208/230	ON ROOF	34"X 24.13"X 25.75"	MANITOWOC	**CVD-0675**	REMOTE CONDENSER	10J-S1
O													1		**115**	**FREE STANDING**	**34" X 22" X 44"**	**MANITOWOC**	**IY0620A**	CUBER HALF DICE CUBE	10L
O													1		**---**	**ABOVE ICE MACHINE**	**24"X 17.5"X 21.5"**	**MANITOWOC**	**D420**	STORAGE BIN	10L-S1
																				KITCHEN EQUIPMENT	
O	450	10"	1-1/2"	FS	2"	10"	1/2"									SEE DETAIL	93"x42"	KEC	CUSTOM	93" CHINESE RANGE (L)	20A
O	190	10"	1"	FS	2"	10"	1/2"									SEE DETAIL	42"x42"	KEC	CUSTOM	42" CHINESE RANGE	20Q
O	190	10"	1"	FS	2"	10"	1/2"			18"	C	7A	1		120	SEE DETAIL	42"x42"	KEC	CUSTOM	42" CHINESE RANGE	20R
O	122 EA	14"	1 1/2"							24"	C	-	1		120		47"x31-1/2"x51-5/8"	FRYMASTER	MJ45-FPP345C	FRYER	21B
O	54	10"	3/4"												120		24"X31.5"X15.25"	VULCAN	MSA24-C0100P	24" GAS GRIDDLE	23E
GRILL MINUS PLUG/CONNECTOR (1)										36"	C	17.3A	1		208		10.4"X22.9"	VULCAN	VMCS-101	(2) ELECTRIC GRIDDLE TOP	
O										24"	C	14.8A	1		120	NEMA 5	19.9"X34.5"X41.3"	WINSTON	HA4005	RICE HOLDING CABINET	24H
O	34.6	10" & 32"	3/4"														24"x19"x17"	PANTIN	GC-6100(N)	RICE COOKER	25A
O										24"	C	9A	1	1/2	115	NEMA 5-15P	60"X33"X36"	RANDELL	9205F-290	60" WORKTOP FREEZER	30L
O				FS	3/4"					130"	D (2)	2.0AMPS	1	1.5	208		SEE PLAN	**KEC**	CUSTOM	WALK-IN COOLER UNIT	31
O											D (2)	35.0A	1	1.5	208		SEE PLAN	**KEC**	CUSTOM	WALK-IN COOLER COND.	31-S
O				FS	3/4"					130"	D (2)	FREEZER FAN COIL UNIT POWERED FROM CONDENSER UNIT					SEE PLAN	**KEC**	CUSTOM	WALK-IN FREEZER	32
O											D (2)	30.0A	1	1.5	208		SEE PLAN	**KEC**	CUSTOM	WALK-IN FREEZER COND.	32-S1
O											D/ID	500W	1		120		SEE PLAN	**KEC**	CUSTOM	W.I.F. LTG, DOOR HEATER	32-S7
O										24"	C	15A	1	1/2	120	SELF CONTAINED	84"x33"x35"	RANDELL	9050K-7MPR2-NSB	84" REF. PREP. TABLE	34O
O										24"	C	9A	1	1/3	120	SELF CONTAINED	48"x33"x35"	RANDELL	9030K-7	48" REF. PREP. TABLE	34D
O				FS	2"	14"	3/4"	14"	3/4"								100"X30"	KEC	CUSTOM-(PS-100L)	POT SINK	40A
O				FS						88"	C	1.52 KW	1	2	208		28"x33"x82"	ELECTROLUX	727655	THAWING CABINET	40T
O				FS	2"	14"	3/4"	14"	3/4"							1 COMPARTMENT	42"x30"	KEC	CUSTOM-(VS-42)	42" VEGETABLE SINK (R)	41B
O				FS	2"	14"	3/4"	14"	3/4"							1 COMPARTMENT	42"x30"	KEC	CUSTOM-(VS-42)	42" VEGETABLE SINK (L)	41C
O										18GA POLISHED (WALL MTD. @ 59" A.F.F.)							SEE PLAN	**PANDA WAREHOUSE**	CUSTOM (NSF)	12"D S.S. WALL MTD. SHELF	43A
O										18GA POLISHED (WALL MTD. @ 71" A.F.F.)							SEE PLAN	**PANDA WAREHOUSE**	CUSTOM (NSF)	18"D S.S. WALL MTD. SHELF	43B
O										4 SHELVES MTD. @ 8" A.F.F., 26" A.F.F., 54" A.F.F., 72" A.F.F.							SEE PLAN	GOLD BOND	ISS	18"D WIRE SHELVES	44A
O										UNDER CABINET SHELVES WITH CASTER MTD. @ 8" A.F.F., 20" A.F.F.							SEE PLAN	GOLD BOND	ISS	SHORT 18"D WIRE SHELVES	44A-U
O										4 SHELVES MTD. @ 36" A.F.F., 48" A.F.F., 60" A.F.F., 72" A.F.F.							SEE PLAN	GOLD BOND	ISS	24"D WIRE SHELVES	44C
O										UNDER CABINET SHELVES MTD. @ 8" A.F.F., 14" A.F.F.							SEE PLAN	GOLD BOND	ISS	SHORT 24"D WIRE SHELVES	44C-U
O																	24"x 30" x 24"	KEC	CUSTOM	S.S. RICE COOKER STAND	46A
O																	22"x 20" x 34.06"	KEC	CUSTOM	RICE WARMER STAND	46B
O																	24"x 33" x 28"	KEC	CUSTOM	S.S. GRILL STAND	46H
O										50"	C	10A	1	1	120	9 15/16"x19-11/16"x19-3/4"		ELECTROLUX	DITO-TRS24	FOOD PROCESSOR	53
O				FS	7/8"	20"	3/4"	20"	3/4"	18"	C	53A	1	4	208	DISCONNECT @ 90°	32"x37"x88"	HOBART	PW10SER	POTWASHER	70D
O				FS													14"x14"x21"	HOBART	WS-40	WATER SOFTENER	70D1
																				SMALL EQUIPMENT	
O					2"	24"	1/2"	24"	1/2"							W/TOWEL & SOAP	14 1/4"x18 1/2"	GSW	HS-1615NPASS	HAND SINK	45A
O										24"	C	105W	1		120	ON S.S. COUNTER	17" Ø	WELBON	WRS-1088BS	RICE WARMER	54A
O										84"	DC	1800W	1		208	PLUG: NEMA 6-15R	17 1/2"X13 5/8"X22 9/16"	SHARP	R-CD1800M	MICROWAVE	55A
BY G.C.																AS REQUIRED BY LOCAL FIRE DEPT., CHECK LOCATION WITH PROJECT MANAGER				FIRE EXTINGUISHER	56
O																	SEE DETAIL	SAN-JAMAR	SANJT7500TBK	PAPER TOWEL DISPENSER	60D
O																WALL MOUNT	12"x20"x77"	GSW	5-DOOR	LOCKER (2)	61B
O																	20"X20"X23"	**TIDEL**	**CUSTOM**	SMART SAFE	62B
																				POS EQUIPMENT	
O																SEE ELEV. ON E-200	48" X 28" X 42"	KEC	CUSTOM	MANAGER STATION	49A
O										REF ELEV	C	100W	1		120	SEE DETAIL		**DELL OPTIPLEX**	**Xe2**	COMPUTER	83A
O										REF ELEV	C	50W	1		120	SEE PLAN		**BROTHER**	**MFC-LC2700DW**	POS PRINTERS	86A
O										REF ELEV	C	50W	1		120			**BROTHER**	**MFC-LC2700DW**	FAX	87
O										REF ELEV	C	500W	1		120	CUSTOM	11 1/4"x14 1/2"x9"	RESNOS	S 460	CASH REGISTER SYSTEM	94
																				MEP EQUIPMENT	
O																SEE MECH. DWG.	SEE PLAN	CAPTIVE AIR	CUSTOM	EXHAUST HOOD	M1
O																SEE MECH. DWG.	SEE PLAN	CAPTIVE AIR	CUSTOM	HOOD CONTROL PANEL	M4
O																SEE MECH. DWG	SEE PLAN	CAPTIVE AIR		FIRE SUPPRESSION SYSTEM	M5
BY G.C.																SEE MECH/ELEC DWG	SEE PLAN			RECESSED ANSUL PULL BOX	M6
O										90"	D	5.1A	1	1/2	115	SEE MECH/ELEC DWG	42" X 10 5/8"	MARS	STD242-1U	BACK DOOR AIR CURTAIN	M8a
BY G.C.										24"	D	20A	1		120	SEE ELEC. DWG	25"X 9" X 10 3/8"	QUIK-SERV	CF-25 NON-HEATED	DT WINDOW AIR CURTAIN REGIONAL APPLICATION EITHER OR, NOT BOTH	M9a
BY G.C.										24"	D	30A	1		120 & 208	SEE ELEC. DWG	25"X 9" X 14 3/8"	QUIK-SERV	CHF-25 HEATED		
BY G.C.										24"	D	20A	1		120	SEE ELEC. DWG	47.5"X 59.5"	QUIK-SERV	SST-4860E	DT WINDOW	M10
O																SEE PLUMBING DWG	26.88" X 25.14" X 90.56"	MARENGO FABRICATED	600058 ASSEMBLY	GREASE TANK	P-OT1
BY G.C.				3"	36"	–	36"	–			D					FLOOR TYPE	24" X 24" X 13"	G.S.W. PHONE:1800-897-5999	SE2424FM	STAINLESS STEEL MOP SINK	P1
BY G.C.	398	100"								84"	C	8A	1		120	SEE PLUMBING DWG	39" X 29.75" X 13"	RINNAI	MTO-00247	GAS TANKLESS WATER HEATER	P3 (2)
O					96"	1/2"										WALL MOUNT	8"x2 3/8"x23 5/8"	3M WATER FILTRATION	BEV190-56164-01	WATER FILTER	P4
O																WALL MOUNT	10"x8 5/8"x18 1/2"	WATTS	OFTWH-C	WATER FILTER	P5
O										REF ELEV	C	50W	1		120	SEE ELEV. ON E-200	SEE PLAN	HYPERACTIVE		HYPERACTIVE TIMER SYS.	94-1A
O										48"	C	50W	1		120	SEE PLAN	15" X 13"	DELL (17" COLOR)		LCD MONITOR-MANAGER	94-2-16
O										REF ELEV	C	50W	1		120	SEE ELEV. ON E-200	SEE PLAN	HME		HME INTERCOM SYS.	94-3-1
O										REF ELEV	C	60W	1		120	SEE PLAN	15"	POSIFLEX	KS7215	LCD DT MONITOR	94-W
O										REF ELEV	C	50W	1		120	W/ EMI LOCK	SEE PLAN	TOSHIBA (TIME LAPSE)		SECURITY VCR	95-4-S2
O										98"	C	50W	1		120	SEE ELEC. DWG	15" X 13"	DELL (17" COLOR)		SECURITY MONITORS	95-4-S3
O										REF ELEV	C	100W	1		120	IN S.S. COUNTER	SEE PLAN			MUSIC EQUIPMENT	95-5
BY G.C.																SEE ELEC. DWG				ELECTRICAL PANEL	E7
																				SIGNAGE	
O																	REF. INT. ELEV'S	LSI	CUSTOM	MENU BOARD	D2b
O																BF-POWER COAT "DF125 SILVER"		FAD	–	COMMUNITY BOARD	CB-H
O										REF ELEV	C	130W	1		120	DEDICATED CIRCUIT	48.9" X 28.1" X 1.3"	LG	55WS50BS-B	LCD DISPLAY MONITOR	96-3B

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ISSUE FOR BID 01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

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E-001
ELECTRICAL SCHEDULES

ISSUE FOR BID 01-30-23

ISSUE FOR BID 01-30-23

1. ALL CIRCUITRY/CONDUIT FOR FRONT LINE EQUIPMENT TO BE ROUTED IN CASEWORK TO J-BOX IN WALL AND CONCEALED IN WALL.
2. PROVIDE SEALS AND EXPANSION COUPLINGS ON ALL CONDUITS ENTERING OR LEAVING AREA OF TEMPERATURE DIFFERENCE. REFER TO WIRING NOTES 6/E-400 FOR ADDITIONAL INFORMATION.
3. PROVIDE (2) 1-1/2" CONDUITS WITH PULL STRINGS FROM CASH REGISTER TO MANAGER STATION. SEE P.O.S. AND SERVICE LINE ELEVATIONS, 6/E-200.
4. SEE 'MANAGER STATION ELEVATION' 1/E-200 FOR ADDITIONAL OUTLETS AND J-BOXES.
5. ANSUL PULL STATION. REFER TO DETAIL, 2/E-400.
6. REFER TO 'LTG AND DOOR HEATER' WIRING DIAGRAM, 10/E-400.
7. REFER TO 'COOLER EVAPORATOR COIL' WIRING DIAGRAM, 8/E-400.
8. SHOW WINDOW RECEPTACLE SHALL BE CONTROLLED VIA SWITCH "b". REFER TO LIGHTING SWITCHBANK SCHEDULE, SHEET 4/E101. RECEPTACLE SHALL BE MOUNTED IN WALL AS CLOSE TO TOP OF STRUCTURAL HEADER AS POSSIBLE.
9. BUILDING SIGNAGE/LOGO DEDICATED/PROPOSED W.P. J-BOX FOR SIGNAGE. COORDINATE LOCATION WITH ARCHITECT / OWNER / SIGN PACKAGE PRIOR TO ROUGH-IN. SIGN DISCONNECT PROVIDED BY SIGN CONTRACTOR.
10. REFER TO 'FREEZER EVAPORATOR COIL' WIRING DIAGRAM, 9/E-400. THE FAN COIL UNIT IS POWERED FROM THE CONDENSER UNIT VIA DISCONNECT CONNECTION. HEAT TAPE PROVIDED AND INSTALLED BY ELECTRICIAN.
11. PROVIDE PULL STRING TO ABOVE CEILING FOR DOOR KEYPAD CONTROL WIRING.

1 12. J-BOX CIRCUIT ABOVE CEILING TO POWER ELEC. DOOR HARDWARE SYSTEM SHALL BE CONNECTED TO SWITCH 'A'. REFER 4/E-101 FOR SWITCHBANK DETAIL.

13. HOOD CONTROL PANEL/ANSUL SYSTEM CABINET. MOUNT CABINET DIRECTLY BELOW T-BAR CEILING.
14. PROVIDE 2-GANG J-BOX @ 42" AFF FOR HOOD CONTROL SWITCHES. REFER TO M-400 AND M-401.
15. 1" CONDUIT STUB UP LOCATION IN STAINLESS STEEL POWER PANEL FOR ISLAND KITCHEN EQUIPMENT CONNECTION. REFER TO DETAIL 2/A-109. COORDINATE LOCATION WITH ARCHITECT / OWNER.
16. ROUTE CABLING / CIRCUITRY THROUGH 1" CONDUIT IN SLAB.
17. UTILIZE SEAL TIGHT CONDUIT FOR ALL WIRING INCLUDED ALONG LOW WALL PANEL.
18. ALL DEVICES UNDER HOOD TO BE PROVIDED AND INSTALLED WITH GROUND FAULT CIRCUIT BREAKER AND WATERPROOFING BOX (RED DOT #CKSUV). REFER TO COOKLINE ELECTRICAL ELEVATIONS, 3/E-200. ROUTE HOMERUN THROUGH CONTRACTOR INTERFACED WITH THE HOOD FIRE SUPPRESSION SYSTEM. REFERENCE 13/E-400 FOR ADDITIONAL INFORMATION.
19. SIMPLEX RECEPTACLE TO BE CONNECTED TO BACK-OF-HOUSE LIGHTING CIRCUITRY/CONTROL. CONTRACTOR TO PROVIDE PIGTAIL FROM CIRCULATION PUMP.
20. PROVIDE WEATHERPROOF RECEPTACLE FOR HEAT TAPE. COORDINATE FINAL LOCATION WITH REFRIGERATION INSTALLER.
21. ELECTRIC GRIDDLE '23E': FEED WITH (2) #6, (1) #10 GROUND, 3/4" CONDUIT. REFER TO 14/E-400.
22. SEE DRIVE THRU ELEVATION 2/E-200 FOR CONDUIT SIZES AND CONFIGURATIONS.
23. SEE TICKET PRINTER ELEVATIONS, 4/E-200.
24. PROVIDE WATERPROOFING, COVER, IN-USE RED DOT (#CKSUV).
25. SEE FOR DRIVE-THRU ELEVATIONS, 2/E-200.
26. SEE DRINK STATION ELEVATIONS, 5/E-200.
27. SEE 6/E-200 FOR SERVICE LINE ELEVATIONS.
28. SEE DEVICE / RECEPTACLE SCHEDULE 3/E-400.
29. SEE DINING ROOM ELEVATION, DETAIL 7/E-200.
30. PROVIDE AND INSTALL 3/4" CONDUIT AND PULL STRING FROM CLOSEST LANDSCAPE AREA, THROUGH WALL UP TO EMPTY FLUSH MOUNTED JUNCTION BOX @ 54" A.F.F. (FOR IRRIGATION CONTROLS). CLOSE OFF CONDUIT IN LANDSCAPE AREA WITH REMOVABLE CAP. UTILIZE WP CIRCUIT A-53 NEAR ENTRY POINT.
31. REFER TO 8/E-200 FOR LOCATION/INSTALLATION OF C02 DEVICE.
32. SEE SWITCH BANK ELEVATION , DETAIL 1/E-200.
33. FLY LIGHT RECEPTACLE SHALL BE INSTALLED WITH A RECESSED CLOCK SIMPLEX OUTLET. TYP OF ALL LOCATIONS.
34. SEE SECURITY KEY PAD ELEVATION 1/E-200.
35. CONNECT HEAT LAMPS TO COUNTER-MOUNTED SWITCH PROVIDED AND INSTALLED BY CONTRACTOR. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT PROVIDER.
36. PANDA EXPRESS TO PROVIDE C02 MONITOR, E.C. TO MOUNT OVER J-BOX WITH WIRING THROUGH WALL CONDUIT FOR CLEAN INSTALLATION. PROVIDE ALL OTHER REQUIRED CONNECTIONS AND COMPONENTS FOR FULLY WORKING SYSTEM.
37. PROVIDE IN-GRADE QUAZITE 8"X8" PC STYLE POLYMER CONCRETE BOX OR EQUAL FOR UNDERGROUND CABLE REQUIRED FOR THE STORE. PART NO. PC081XXXXX OR SIMILAR. REFER TO ELECTRICAL SITE PLAN 1/E-105.
38. PROVIDE 1" CONDUIT FOR CABLE DEDICATED FOR ENTIRE STORE FROM IN-GRADE 8X8 QUAZITE BOX TO EXTERIOR CLOSET 6X6 FLUSH MOUNTED JUNCTION BOX. TERMINATE INTERIOR ABOVE CEILING.
39. PROVIDE FLUSH MOUNTED NEMA 1 6X6 JUNCTION/PULL BOX AT +48" - HUBBELL OR EQUAL. ROUTE CABLE FROM EXTERIOR 6X6 IN 1" CONDUIT THROUGH BUILDING. TERMINATE INTERIOR ABOVE CEILING.

1 40. PROVIDE A (1) 3/4" UNDERGOUND CONDUIT AND PULLSTRING FOR LOW VOLTAGE WIRING. CONDUIT AND PULLSTRING TO RUN UNDERGROUND FROM HOTWELL CABINET AND STUB-UP THROUGH WALL AND ABOVE CEILING ADJACENT TO MANAGER STATION.

41. FIRE SUPPRESSION SHUTDOWN CONTACTOR LOCATED ABOVE CEILING , REFER TO 13/E-400.
42. ELECTRICIAN TO WALL MOUNT A NEMA ELECTRICAL DISCONNECT BOX AT +90". ELECTRICIAN TO SUPPLY A WIRE WHIP FROM BOX TO MACHINE, FINAL CONNECTIONS BY HOBART SERVICE.

1 43. PROVIDE (1) 1" UNDERGROUND CONDUIT AND PULLSTRING FOR HOTWELL CABINET. CONDUIT AND PULLSTRING TO RUN UNDERGROUND FROM HOTWELL CABINET AND STUB-UP BENEATH ELECTRICAL PANEL. REFER TO PANEL SCHEDULE.

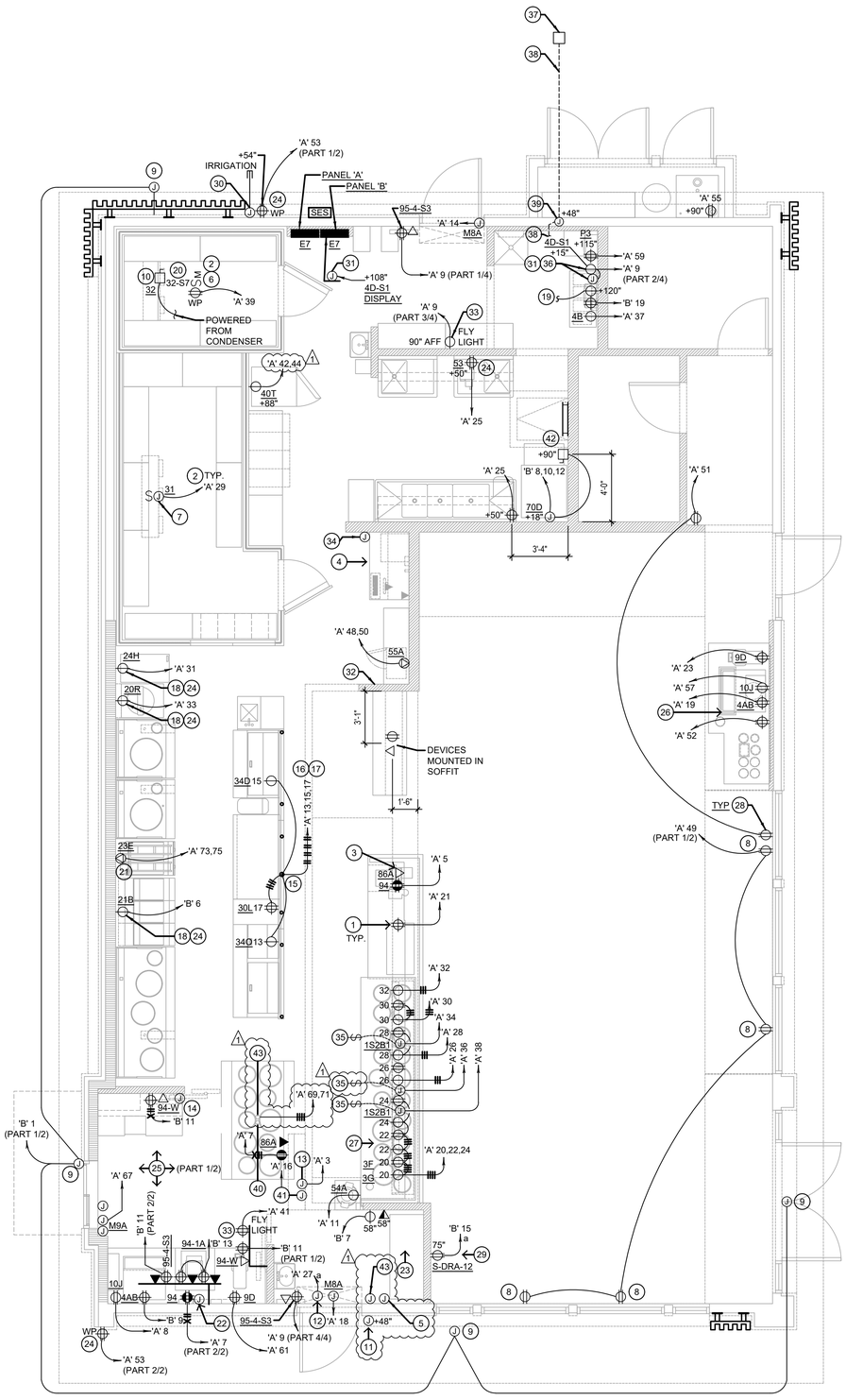
POWER PLAN KEYED NOTES 3

NOT TO SCALE E-100

- VERIFY QUANTITIES AND REQUIREMENTS OF ALL HVAC & KITCHEN EQUIPMENT PRIOR TO ROUGH IN.
- ALL TELEPHONE/DATA/TV CABLES AND WIRES, AND TERMINATIONS OF ALL REQUIRED CABLE AND JACKS WILL BE INSTALLED BY THIRD PARTY.
- POWER SUPPLY FOR COMPUTER AND CASH REGISTER (86A & 94) SHALL BE ON THE SAME CIRCUIT BREAKER, W/ISOLATED GROUND & ORANGE RECEPTACLE.
- ALL CIRCUITRY SHOWN WITHOUT TICKS SHALL HAVE (2) WIRES PLUS EQUIPMENT GROUNDING CONDUCTOR.
- WHEN WORKING IN JURISDICTIONS WHICH HAVE ADOPTED THE 2017 NEC OR LATER, ALL MULTI-WIRE BRANCH CIRCUITS SHALL HAVE SEPARATE NEUTRALS TO MEET THE REQUIREMENTS OF 2017 NEC 210.4(B).
- TRANSFORMERS SHALL BE MOUNTED ABOVE CEILING BELOW TRUSSES WITH LOW VOLTAGE WIRING FEEDING TO ALL EXTERIOR LIGHTS.
- ALL UNDERGROUND CONDUIT SHALL BE 12" BELOW F.F.

POWER PLAN GENERAL NOTES 2

NOT TO SCALE E-100



ALL 120 VOLT, 20 AMP RECEPTACLES LOCATED UNDER COUNTERS WITHIN SERVING AREA 101, DRIVE-THRU 102, AND KITCHEN 103 TO BE SERVED FROM GFCI-TYPE CIRCUIT BREAKERS PER NEC 210.8 (B) (2).

POWER FLOOR PLAN 1

Scale: 1/4"=1'-0" E-100

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E-100
POWER FLOOR PLAN

ISSUE FOR BID 01-30-23

PANDA HOME 2600 R4

- CONTRACTOR SHALL PROVIDE ALL REQUIRED HARDWARES, BRACKETS, ETC. FOR A COMPLETE LIGHTING FIXTURE INSTALLATION.
- FIXTURES THAT ARE TO BE ROUTED VIA TIMECLOCKS ARE SHOWN ON DETAIL 11/E400. SEQUENCE OF OPERATION: TIMECLOCKS WIRED FIRST FOR DESIGNATED CONTROL. SWITCHES ARE SERIES WIRED WITH THE CONTACTORS. UTILIZE DIGITAL OVERRIDE TIMER SWITCH (DOTS) TO OVER-RIDE THE TIMECLOCKS FOR CLEANING AND AFTER HOURS AS NEEDED. SEE DETAIL 11/E400
- ALL LIGHTING FIXTURES SHALL BE SUPPORTED PER N.E.C. 410-16(C). SEE DETAIL, 4/E400.
- CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES INCLUDING OWNER-FURNISHED FIXTURES.
- ALL FIXTURE BALLASTS SHALL BE U.L. LISTED.
- E.C. SHALL INSTALL OWNER SUPPLIED LED STRIP LIGHTING & CUT TO PROPER LENGTH. COORDINATE WITH OWNER FOR EXACT LENGTHS AND FINAL LOCATIONS.
- WHEN WORKING IN JURISDICTIONS WHICH HAVE ADOPTED THE 2008 NEC OR LATER, ALL MULTI-WIRE BRANCH CIRCUITS TO HAVE SEPARATE NEUTRALS TO MEET THE REQUIREMENTS OF 2008 NEC 210.4(B).
- ALL CIRCUITRY SHOWN WITHOUT TICKS SHALL HAVE (2) WIRES PLUS EQUIPMENT GROUNDING CONDUCTOR.
- 'N.L.' DESIGNATION INDICATES NIGHT LIGHT ON UNSWITCHED CIRCUIT.

LIGHTING GENERAL NOTES 2

NOT TO SCALE E-101

1. SWITCHBANK 'A'. REFER TO SCHEDULE 4/E-101.
2. ROUTE HOMERUN THROUGH LIGHTING SWITCHBANK 'A' (SWITCHES AS NOTED IN LOWER CASE). REFER TO SCHEDULE 4/E-101 FOR MORE INFORMATION.
3. ROUTE THROUGH CONTACTS IN HOOD CONTROL PANEL 'M4' FOR CIRCUIT POWER. REFER TO 3/E-401.
4. PROVIDE SEPARATE UNSWITCHED HOT CONDUCTOR (SAME CIRCUIT, NOT CONTROLLED BY SWITCH IN SWITCHBANK) TO LOCALLY SWITCHED FIXTURES AND EMERGENCY FIXTURE BATTERY TRIGGER LEADS.
5. DUPLEX RECEPTACLE FOR LED ROPE. INSTALL ABOVE CEILING AT +128". REFER TO 8&9/A-402 FOR MORE INFORMATION.
6. WALK-IN COOLER LIGHT FIXTURES AND PILOT LIGHT SWITCH PROVIDED WITH COOLER INSTALLED BY E.C. REFER TO 'COOLER EVAPORATOR COIL' WIRING DIAGRAM, 8/E-400.
7. WALK-IN FREEZER LIGHT FIXTURE AND PILOT LIGHT SWITCH PROVIDED WITH FREEZER INSTALLED BY E.C. REFER TO 'FREEZER LTG AND DOOR HEATER WIRING DIAGRAM', 10/E-400.
8. NOT USED.
9. FIXTURES IN THIS ROOM SHALL BE LOCALLY SWITCHED.
10. LIGHTING INVERTER FOR EMERGENCY LIGHTING TO BE MOUNTED TO BULKHEAD. RE: 9/E200.
11. LED TRANSFORMER FOR LED ROPE LIGHTING LOCATION, MOUNT ABOVE CEILING.
12. NOT USED.
13. PROVIDE JUNCTION BOX ABOVE CEILING FOR THE BZ-150 UNIVERSAL POWER PACK REQUIRED FOR EXTERIOR MOTION CONTROL LED FIXTURES. PROVIDE LOW VOLTAGE CONNECTIONS AS REQUIRED TO LIGHTSAVER LS-102 SWITCHING PHOTOSENSOR SO THAT WHEN STORE OPERATIONS ARE OFF THIS EXTERIOR SECURITY LIGHT IS ACTIVATED BY EXTERIOR MOTION ONLY. VERIFY WITH MANUFACTURER'S RECOMMENDATIONS FOR WIRING DIAGRAM. VERIFY LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
14. PROVIDE WALL MOUNTED JUNCTION BOX AT +142" FOR INSTALLATION. INSTALL LIGHTSAVER LS-102 SWITCHING PHOTOSENSOR FOR EXTERIOR MOTION CONTROL SECURITY FIXTURES TYP OF 2 LOCATIONS. CONTROL TIMES OF CONTROL SO THAT WHEN STORE OPERATIONS ARE OFF INTERIOR LIGHTS GO OFF AND THE EXTERIOR MOTION LIGHTS ARE ACTIVATED WITH ANY MOTION DETECTED AFTER STORE HOURS. VERIFY WITH MANUFACTURER'S RECOMMENDATIONS FOR WIRING DIAGRAM. VERIFY LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
15. ROUTE HOMERUN THROUGH LIGHTING SWITCHBANK 'A' (SWITCH AS NOTED IN LOWER CASE). REFER TO SCHEDULE, SHEET 4/E-101, FOR MORE INFORMATION. (1)
16. CONNECT TO VEGETABLE DISPLAY LIGHTING PROVIDED WITH WALK-IN COOLER.
17. PROVIDE SEALS AND EXPANSION COUPLINGS ON ALL CONDUITS ENTERING OR LEAVING AREA OF TEMPERATURE DIFFERENCE. REFER TO WIRING NOTES 6/E-400 FOR ADDITIONAL INFORMATION.

LIGHTING KEYED NOTES 3

NOT TO SCALE E-101

NOTE:
FIXTURES TO BE ROUTED VIA TIME TIMECLOCKS ARE SHOWN ON DETAIL 11/E400.

NOTE:
CONTRACTOR TO INSTALL (2) 5 GANG SWITCH BOXES AS SHOWN BELOW. DO NOT INSTALL SEPERATE/INDIVIDUAL BOXES FOR EACH SWITCH

(a)	(b)	(c)	(d)	(e)
$	$	$	$	$
BACK OF HOUSE LTG & EX. FAN & RECIRC PUMP	SHOW WINDOW RECEPS	WALK-IN, MENU LED ACCENTS	SERVING LINE SOFFIT	DINING PENDANTS

(f)	(g)	(h)	(i)	(j)
$	$	$	$	OFF
INTERIOR DINING	BEVERAGE COUNTER	DAYLIGHT HARVEST	SPARE	INTERIOR LIGHTING SHUT DOWN OVERRIDE

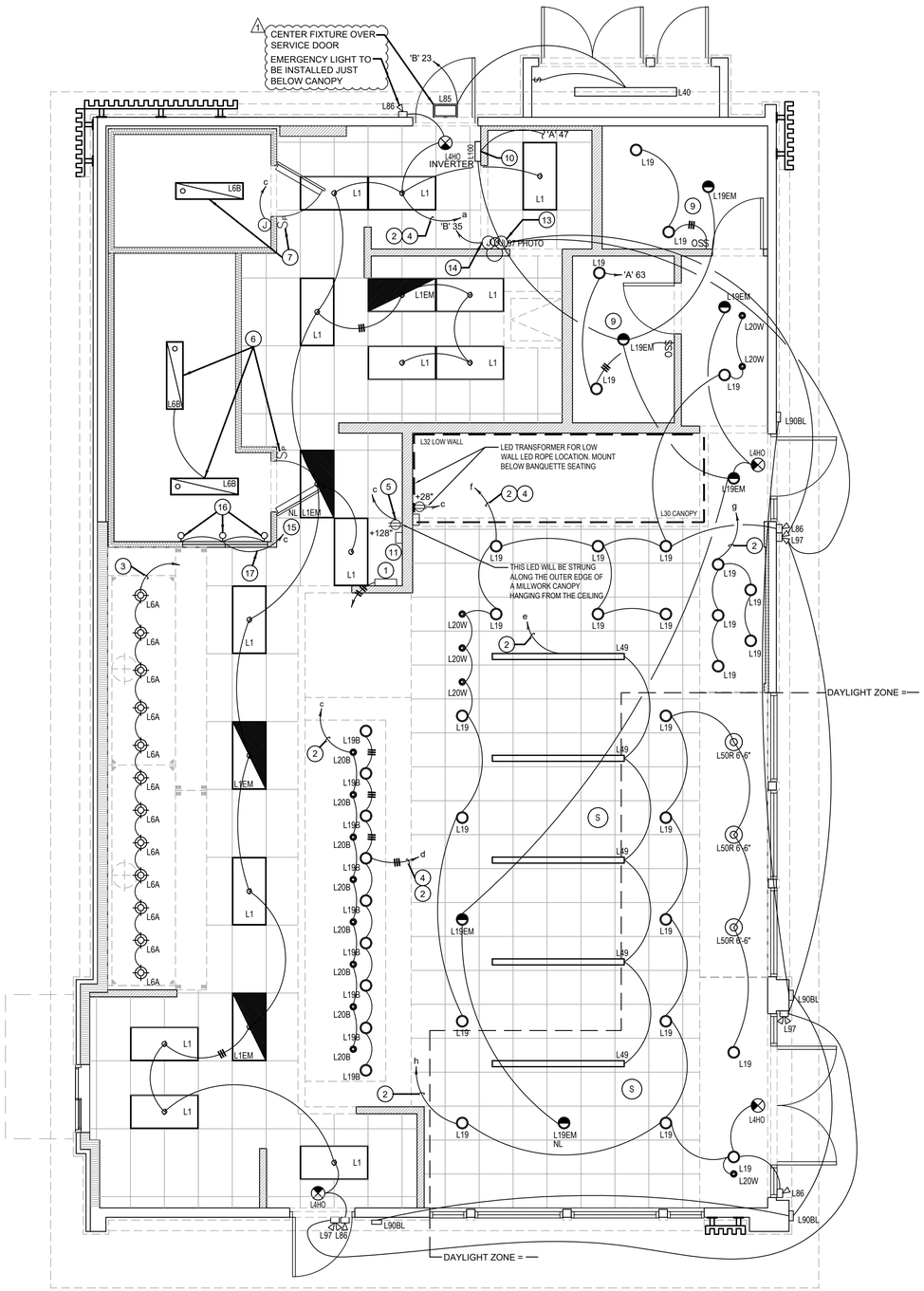
(j) 1

SWITCHBANK SCHEDULE 'A'

TAG	SWITCH TYPE	AREA SERVED / SWITCH LABEL	CIRCUIT	LOAD
a	TOGGLE SWITCH	BACK-OF-HOUSE / RR FANS	'A' 45	530 VA
b	TOGGLE SWITCH	SHOW WINDOW RECEP	'A' 49	720 VA
c	TOGGLE SWITCH	WALK-INS, MENU, LED ACCENTS	'A' 1	275 VA
d	TOGGLE SWITCH	SERVING LINE SOFFIT	'A' 45	140 VA
e	TOGGLE SWITCH	DINING PENDANTS	'A' 47	24 VA
f	TOGGLE SWITCH	INTERIOR DINING	'A' 47	118 VA
g	TOGGLE SWITCH	BEVERAGE COUNTER	'A' 47	16 VA
h	TOGGLE SWITCH	DAYLIGHT HARVESTING ZONE	'A' 47	219 VA
i	SPARE			
j	TIMER SWITCH	INTERIOR LIGHTING SHUT DOWN OVERRIDE	'A' 47	118 VA

INTERIOR / EXTERIOR LTG CONTACTORS SCHEDULE 4

NOT TO SCALE E-101



LIGHTING FLOOR PLAN 1

Scale: 1/4"=1'-0" E-101

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

ISSUE DATE:

	ISSUE FOR PERMIT	10-20-22
	ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

MPW
MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4087 FAX

CHARLES L. MADDUX
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
01/30/2023

PANDA EXPRESS
PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

E-101

LIGHTING FLOOR PLAN

PANDA HOME 2600 R4

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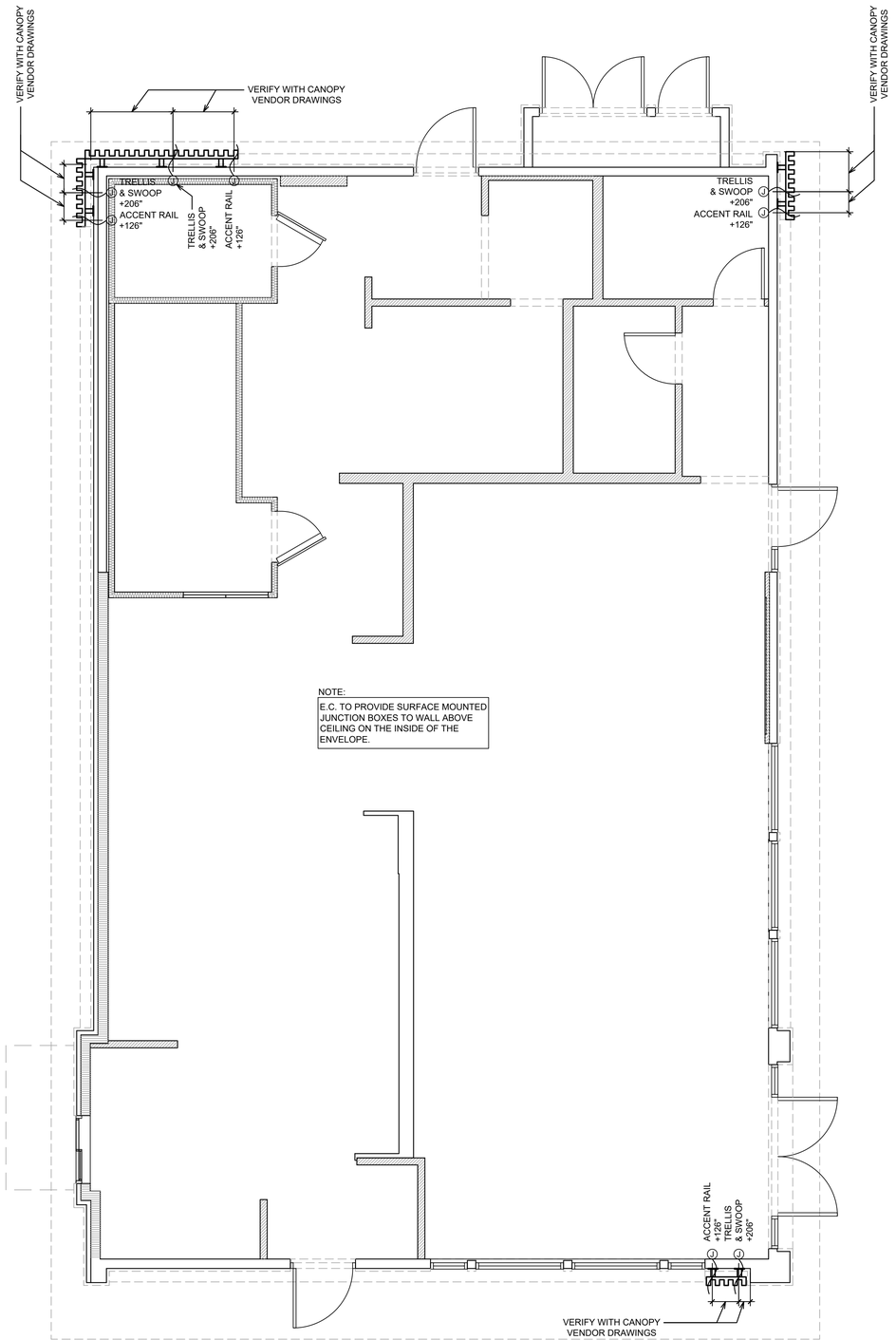

1. E.C. TO PROVIDE J-BOX WITH 3' WHIP FOR CONNECTION TO PANDA EXPRESS PROVIDED LIGHTED CANOPY. E.C. TO MAKE FINAL CONNECTION.
2. E.C. TO PROVIDE J-BOX WITH 3' WHIP FOR CONNECTION TO PANDA EXPRESS PROVIDED LIGHTED DRIVE THRU CANOPY. E.C. TO MAKE FINAL CONNECTION.
3. ALL JUNCTION BOXES ON THIS SHEET TO BE RECESS MOUNTED.

ⓐ CANOPY LIGHTING KEYED NOTES 2

NOT TO SCALE E-101.1

CANOPY LIGHTING PLAN 1

Scale: 1/4"=1'-0" E-101.1

ISSUE FOR BID 01-30-23

PANDA EXPRESS CHINESE KITCHEN

PANDA EXPRESS, INC.
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CHARLES L. MAIDON REGISTERED ENGINEER AGRICULTURE COMMERCIAL No. 0011106 STATE OF TENNESSEE 01/30/2023

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E-101.1

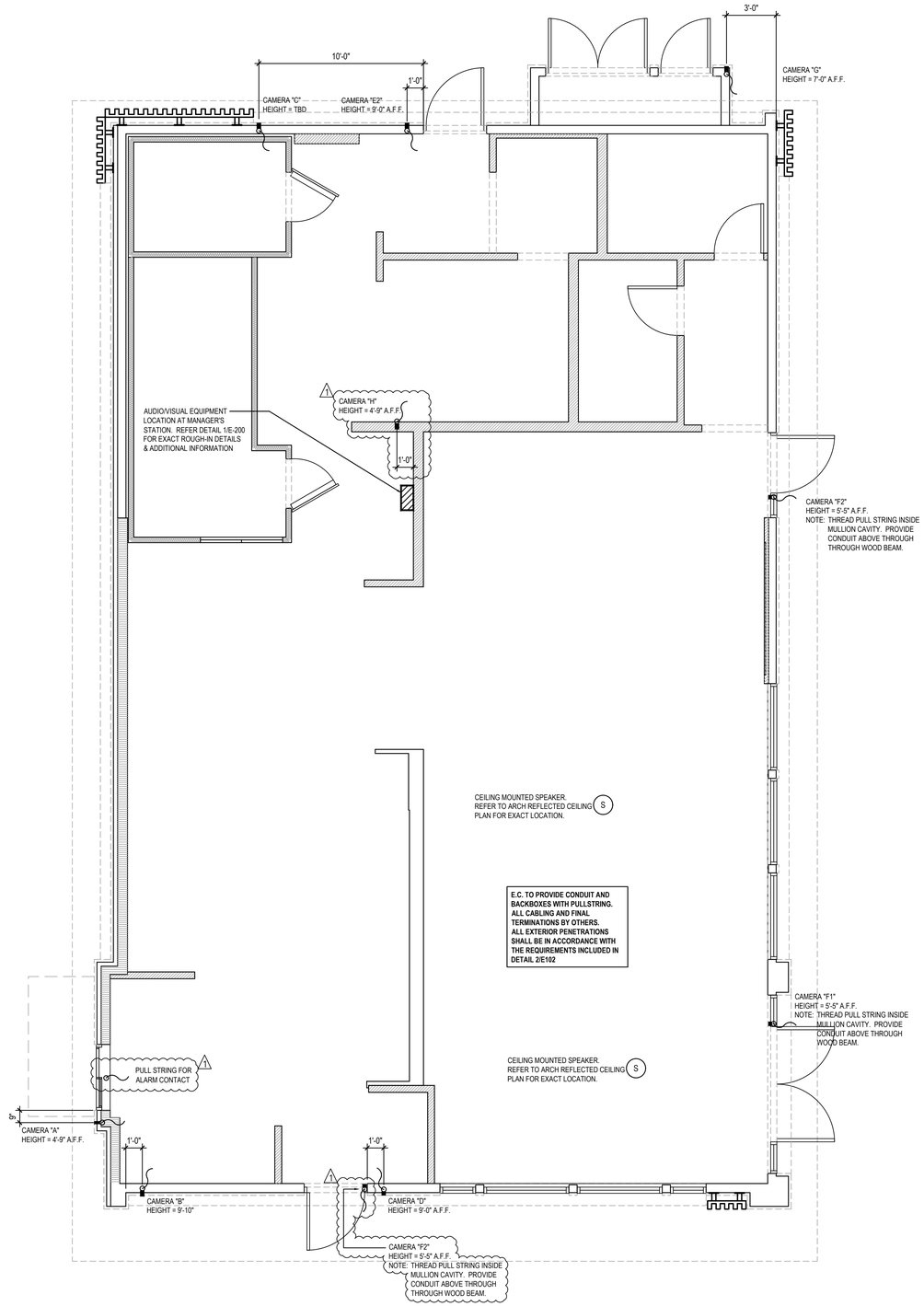
CANOPY LIGHTING PLAN

ISSUE FOR BID 01-30-23

PANDA HOME 2600 R4

CONDUIT ROUGH-IN DETAIL 2

NOT TO SCALE E-102



SECURITY CAMERA PLAN 1

Scale= 1/4" = 1'-0" E-102

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01/30/2023

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E-102

SECURITY CAMERA PLAN

PANDA HOME 2600 R4

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- ALL ROOF MOUNTED EQUIPMENT SHALL BE IN NEMA-3R ENCLOSURES.
- ALL CONDUIT RUNS SHOWN ON THE ROOF SHALL BE RUN BELOW IN THE CEILING SPACE WHERE AMBIENT TEMPERATURE WILL BE BELOW 30° C. FINAL CONNECTIONS TO THE ROOF EQUIPMENT IS LIMITED TO 5'-0" OF DIRECT SOLAR EXPOSURE.
- VERIFY ALL FUSE SIZES AND TYPES WITH THE MECHANICAL EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- REVIEW THE MECHANICAL PLANS FOR HVAC CONTROL REQUIREMENTS AND SCOPE OF WORK PRIOR TO BIDDING AND INCLUDE ALL COSTS IN BID.
- VERIFY CONNECTION POINTS OF ALL HVAC EQUIPMENT PRIOR TO INSTALLATION. PROVIDE CONTROL VOLTAGE CONNECTION TO DUCT MTD. SMOKE DETECTOR AS REQUIRED BY MECHANICAL DRAWING M-100 AND INTERLOCK WITH FIREALARM.
- SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND THERMOSTATS. PROVIDE RACEWAY SYSTEM FOR ALL CONTROL WIRING AS REQUIRED BY MECHANICAL DRAWING M-100.
- E.C. COORDINATE ELECTRICAL, MECHANICAL, FIRE ALARM (IF REQUIIRED) FOR INTERLOCK SEQUENCE FOR FIRE SUPPRESSION.
- RESTROOM EXHAUST FAN TO BE POWERED FROM BACK OF HOUSE LIGHTING CIRCUIT. SEE DETAIL 5/E400 FOR ADDITIONAL INFORMATION.

ROOF PLAN GENERAL NOTES 2

NOT TO SCALE E-104

1. ROUTE HOMERUN THROUGH BACK OF HOUSE LIGHTING CIRCUIT. REFER TO LIGHTING CONTACTOR SCHEDULE, 4/E-101. FAN TO BE CONTROLLED BY SWITCH FOR BACK OF HOUSE LIGHTING.
2. DUCT SMOKE DETECTOR. FURNISHED BY MECHANICAL/FACTORY, WIRED BY ELECTRICAL / FIRE ALARM CONTRACTOR. FURNISH AND INSTALL ALL RACEWAY, WIRING, AND ADDITIONAL ACCESSORIES REQUIRED FOR CODE COMPLIANCE AND UNIT SHUTDOWN.
3. CIRCUIT FEEDS FROM PANELBOARD - THROUGH HOOD CONTROL PANEL - UP TO ROOF. REFER TO DETAIL, SHEET 3/E-401 & KITCHEN HOOD SUBMITTAL DATA.
4. REFER TO CONDENSING UNIT WIRING DIAGRAM, 7/E-400.
5. STRUT RACK SUPPORT FOR EQUIPMENT DISCONNECT SWITCHES. REFER TO DETAIL, SHEET 2/E-401.
6. PROVIDE OUTLET WITH RED DOT INUSE COVER AT PARAPET +24" ABOVE ROOF FOR HEAT TAPE. HEAT TAPE PROVIDED BY OTHERS.
7. DO NOT INSTALL UNTIL BACK DRAFT DAMPER INSTALLATION IS COMPLETE. UTILIZE FACTORY KNOCKOUTS FOR ELECTRICAL RUN FOR THIS FAN. REFER TO SHEET M-402.
8. NOT USED.
9. STUB ELECTRICAL FEED FOR EF-1 & EF-2, THROUGH ROOF ON HINGE SIDE OF EXHAUST FANS, IN LOCATION AS SHOWN ON POWER ROOF PLAN. REFER TO DETAIL 3/M-501 FOR ADDITIONAL DETAILS.
10. ROUTE POWER FEEDS VIA FACTORY PROVIDED THRU-BASE CONNECTION AREA. COORDINATE WITH MECHANICAL.
11. UNIT INCLUDES FACTORY MOLDED CASE DISCONNECT SWITCH (NO OCP). VERIFY WITH MECHANICAL SUBMITTAL DATA. PROVIDE DISCONNECT IF / AS REQUIRED.

(#) ROOF PLAN KEYED NOTES 3

NOT TO SCALE E-104

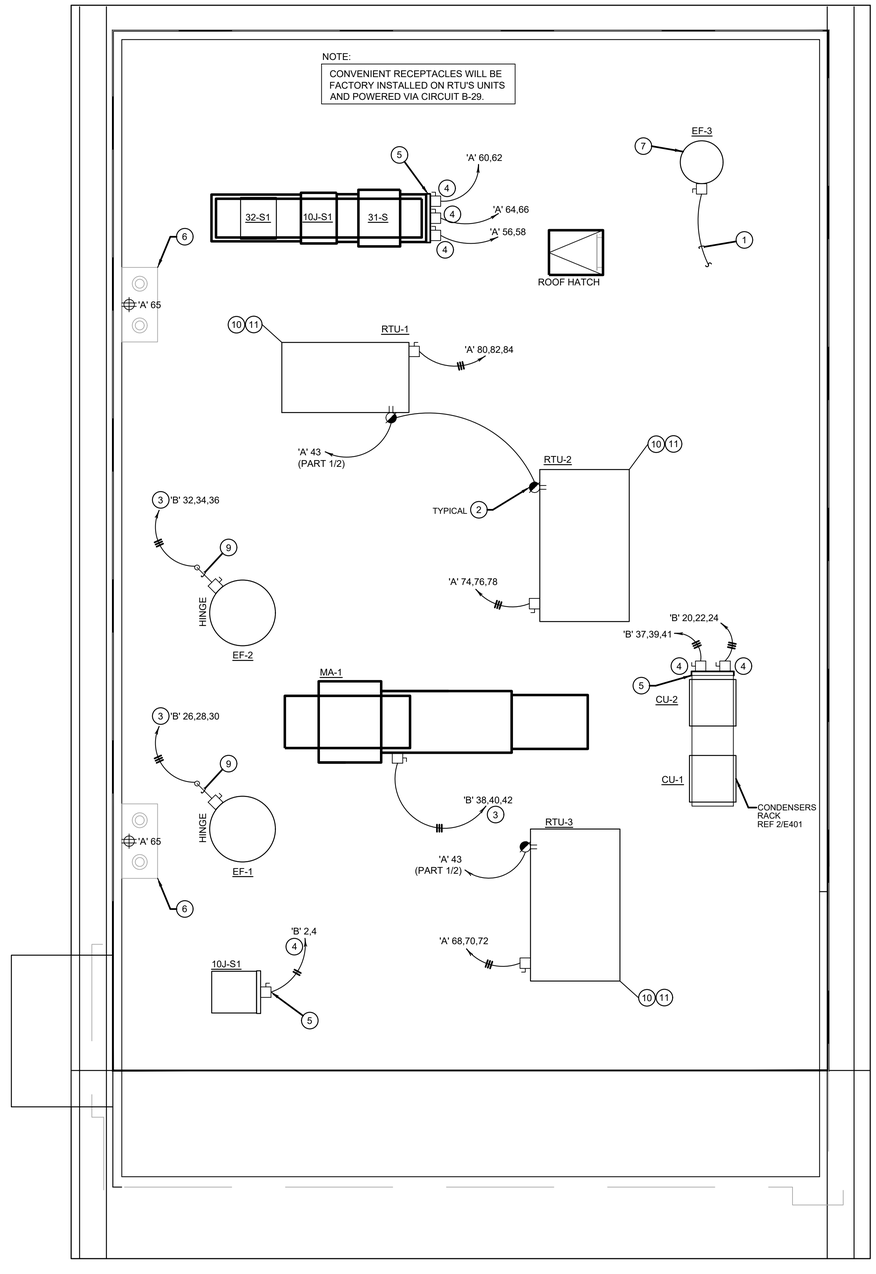
ROOFTOP EQUIPMENT SCHEDULE

TAG	DESCRIPTION	kW	H.P.	FLA	VOLT/Ø	WIRE, CONDUIT	CONN.	MOUNT HEIGHT	DISC. SW. WITH RK1 FUSES PER MFR'S REQ'S. AND/OR REMARKS
RTU1	A/C UNIT (LENNOX)			30.0	208V.3Ø	3 #8, #10 GND., 1" C.	☐	AT UNIT	60A. 3P. 3F. WP (1) (4)
RTU2	A/C UNIT (LENNOX)			52.0	208V.3Ø	3 #6, #10 GND., 1" C.	☐	AT UNIT	60A. 3P. 3F. WP (1) (4)
RTU3	A/C UNIT (LENNOX)			52.0	208V.3Ø	3 #6, #10 GND., 1" C.	☐	AT UNIT	60A. 3P. 3F. WP (1) (4)
CU-1	CONDENSING UNIT			21.4	208V.3Ø	3 #10, #10 GND., 1" C.	☐	AT UNIT	30A. 3P. 3F. WP
CU-2	CONDENSING UNIT			21.4	208V.3Ø	3 #10, #10 GND., 1" C.	☐	AT UNIT	30A. 3P. 3F. WP
MA-1	MAKE-UP AIR UNIT		7.5	15.0	208V.3Ø	3 #12, #12 GND., 3/4" C.	☐	AT UNIT	(1) (4)
EF-1	EXHAUST FAN		2.0	5.9	208V.3Ø	3 #12, #12 GND., 3/4" C.	☐	AT UNIT	(1)
EF-2	EXHAUST FAN		2.0	5.9	208V.3Ø	3 #12, #12 GND., 3/4" C.	☐	AT UNIT	(1)
EF-3	EXHAUST FAN		1/4	4.8	120V.1Ø	2 #12, #12 GND., 3/4" C.	☐	AT UNIT	30A. 2P. 1F. WP (1) (4)
31-S	W/I COOLER COND.			27.0	208V.1Ø	2 #10, #10 GND., 3/4" C.	☒	AT UNIT	(2) (3)
32-S1	W/I FREEZER COND.			32.0	208V.1Ø	2 #8, #8 GND., 3/4" C.	☒	AT UNIT	30A. 2P. 2F. WP (2) (3)
10J-S1	ICE MACHINE COND.			11.7	208V.1Ø	2 #12, #12 GND., 3/4" C.	☒	AT UNIT	(2) (3)

(1) DISCONNECT SWITCH PROVIDED WITH UNIT.
(2) COMBINATION 30A. 2P. 2F. WP DISCONNECT SWITCH WITH RK5 FUSES PER MANUFACTURER RECOMMENDATION.
(3) COMBINE CIRCUITRY IN 1" CONDUIT FROM J-BOX ON EQUIPMENT DISCONNECT SWITCH SUPPORT. REFER TO DETAIL THIS SHEET, 1 / E-104.
(4) ELECTRICAL FEEDS ARE TO BE ROUTED FROM PLENUM SPACE, UP THROUGH EQUIPMENT CURB, INTO BOTTOM OF EQUIPMENT, THROUGH FACTORY INSTALLED WATER TIGHT CONNECTIONS.

HVAC EQUIPMENT SCHEDULE 4

NOT TO SCALE E-104



ROOF POWER PLAN 1

1/4" = 1'-0" E-104

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ARCH PROJECT #: 261-443

MPW ENGINEERING, LLC
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CHARLES L. MADDUX — REGISTERED PROFESSIONAL ENGINEER — AGRICULTURE — COMMERCIAL — No. 120116 — STATE OF TENNESSEE
01/30/2023

PANDA EXPRESS

PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

E-104

ROOF POWER PLAN

ISSUE FOR BID 01-30-23

PANDA HOME 2600 R4

LIGHT POLE FIXTURE LEGEND

SYMBOL	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	FIXTURE QTY	COLOR	REMARKS	POLE	POLE QTY
▭	LSI	SLM-LED	SITE LIGHTING	8	DARK BRONZE	1.) MOUNTING HEIGHT OF 22' (0' POLE) 2.) CALCULATIONS TAKEN AT GROUND LEVEL 3.) CONTACT VILLA LIGHTING RYAN ZINSELMEIER – RYAN.ZINSELMEIER@VILLALIGHTING.COM 314.531.2600	4SQB5-511G-20-X-BRZ-4BC-ABOLTS	6

NOTE:
REFER TO PHOTOMETRIC STUDY FOR EXACT CATALOG SPECIFICATIONS OF LIGHT POLE FIXTURES

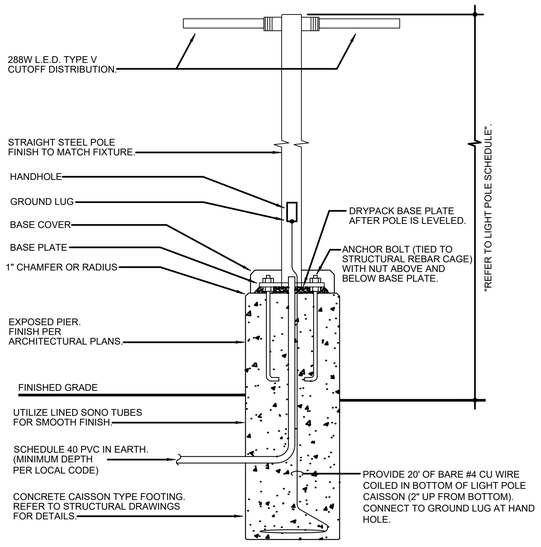
No substitutions accepted. Contact: Ryan Zinselmeier for pricing ryan.zinselmeier@villalighting.com 314-531-2600

- COORDINATE SERVICE ENTRANCE SECTION, TRANSFORMER, PRIMARY SERVICE, SECONDARY SERVICE, AND SWITCHING CABINET OR POWER POLE LOCATIONS WITH SERVING UTILITY COMPANY AND COMPLY AS REQUIRED.
- CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING AND PROVIDING REQUIRED WORK FOR SUPPLYING ELECTRICAL POWER AND TELEPHONE UTILITIES TO THE BUILDING.
- CONTRACTOR SHALL HAVE ALL EXISTING UNDERGROUND UTILITIES LOCATED PRIOR TO TRENCHING. ALL UNDERGROUND UTILITIES DAMAGED DURING TRENCHING SHALL BE REPAIRED TO THE SATISFACTION OF INVOLVED UTILITY AT CONTRACTOR'S EXPENSE.
- MINIMUM CONDUCTOR SIZE THIS SHEET TO BE #10 CU, 1" CONDUIT.

SITE PLAN GENERAL NOTES 2
E-105

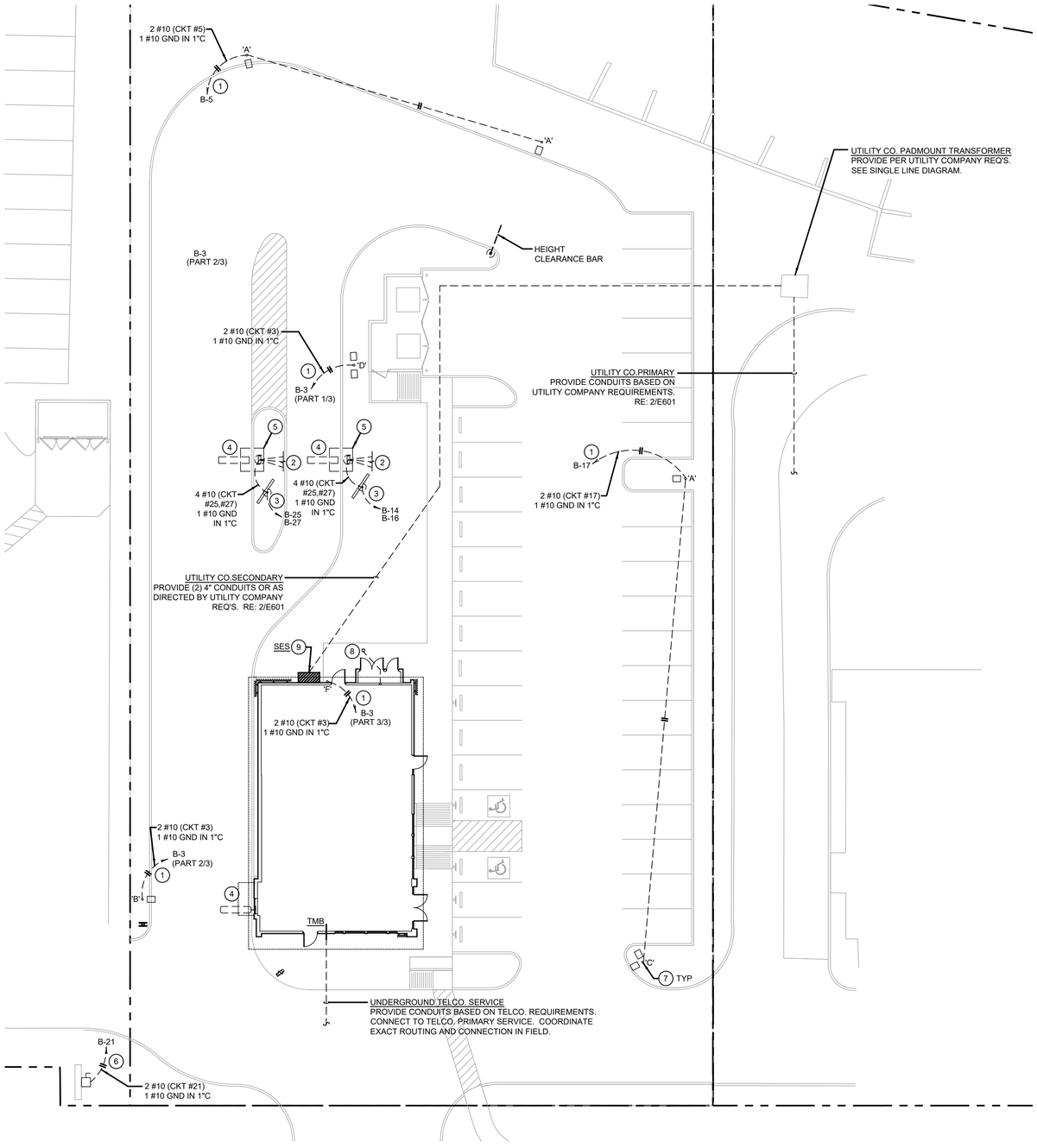
1. FEED THROUGH LIGHTING CONTACTOR. REF: 11/E400.
2. STUB UP LOCATION FOR (3) 3/4" CONDUITS & PULL STRINGS, TO ENTER BUILDING & UP TO 6" ABOVE CEILING. REFER TO SHEET 1/E401.
3. STUB-UP LOCATION FOR MENU BOARD. SIGN DISCONNECT PROVIDED BY SIGN CONTRACTOR. COORDINATE PRECISE LOCATION WITH ARCHITECT / OWNER.
4. DRIVE-THRU SENSOR LOOP. COORDINATE LOCATION. REFER TO DETAIL 1 / E401.
5. STUB-UP FOR DRIVE-THRU ORDER CONFIRMATION MONITOR. COORDINATE LOCATION WITH ARCHITECT / OWNER.
6. STUB UP LOCATION FOR PYLON SIGN OR MONUMENT SIGN. ELECTRICAL CONTRACTOR TO PROVIDE NON-FUSED DISCONNECT AT BASE OF SIGN. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER. CONNECT TO EXTERIOR BUILDING SIGN TIMER CONTROL. REFERENCE 11/E400.
7. SEE POLE MOUNTING DETAIL, REFER TO 4/E105.
8. CABLE PULL BOX; REFERENCE 1/E100. INSTALL MINIMUM 3' FROM SIDEWALK. DO NOT INSTALL IN SIDEWALK CONCRETE.
9. REF: 1/E400 FOR SES GROUNDING DETAIL.

(#) SITE PLAN KEYED NOTES 3
E-105



NOTE: THIS DETAIL IS FOR ELECTRICAL INSTALLATION ONLY. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.

POLE MOUNTING DETAILS 4
NO SCALE E-105



SITE & EXTERIOR LIGHTING PLAN 1
1" = 16'-0" E-105

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ARCH PROJECT #: 261-443

MPW ENGINEERING, LLC
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(918) 582-4088 • (918) 582-4087 FAX

CHARLES L. MADDOX REGISTERED ENGINEER AGRICULTURE No. 0011198 STATE OF TENNESSEE 01/30/2023

PANDA EXPRESS
PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

E-105
SITE & EXTERIOR LIGHTING PLAN

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-23

Schedule

Symbol	Label	Quantity	Catalog Number	Description	Filename	Lumens Per Lamp	Lumen Multiplier	Light Loss Factor	Wattage	Efficiency
	A	3	SLM-LED-18L-SIL-FT-40--70CRI-IL	CONTACT RYAN ZINSELMEIER-314-531-2600	SLM-LED-18L-SIL-FT-40-70CRI-IL.ies	12046	1	1	148.5	100%
	D	1	SLM-LED-18L-SIL-FT-40--70CRI-IL	CONTACT RYAN ZINSELMEIER-314-531-2600	SLM-LED-18L-SIL-FT-40-70CRI-IL.ies	12046	1	1	297	100%
	C	1	SLM-LED-18L-SIL-FT-40--70CRI-IL	CONTACT RYAN ZINSELMEIER-314-531-2600	SLM-LED-18L-SIL-FT-40-70CRI-IL.ies	12046	1	1	297	100%
	F	1	VL305- WALLMOUNT	CONTACT RYAN ZINSELMEIER-314-531-2600	L85 - VL305.ies	3290	1	1	27.9	100%

Statistics

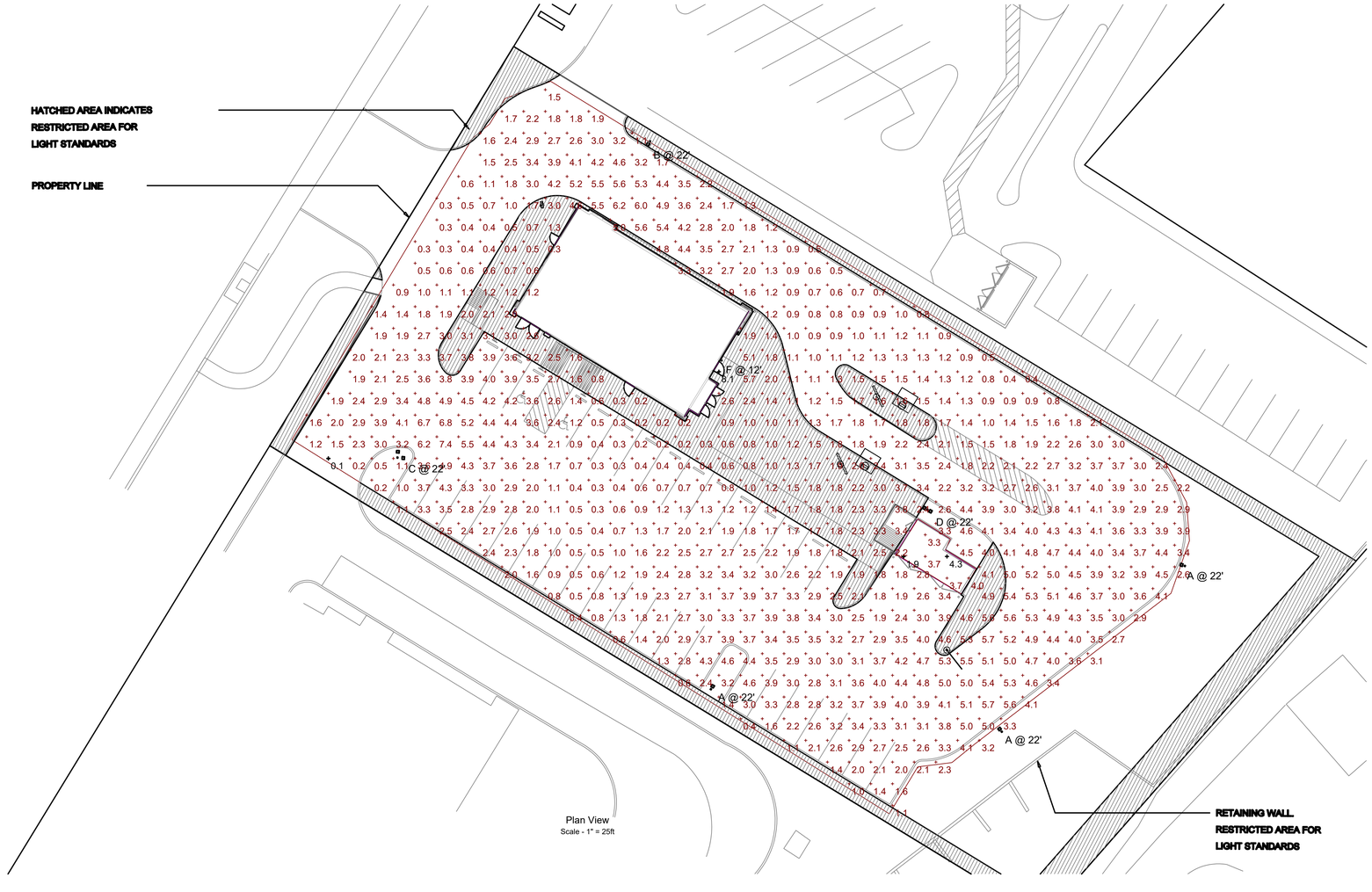
Description	Symbol	Avg	Max	Avg/Min	Max/Min	Min
Calc Zone #1	+	2.5 fc	8.1 fc	25.0:1	81.0:1	0.1 fc
TRASH ENCLOSURE	+	3.5 fc	4.3 fc	1.8:1	2.3:1	1.9 fc

Note

1. MOUNTING HEIGHT OF 22' (20'POLE)
2. CALCULATIONS TAKEN AT GROUND LEVEL
3.CONTACT VILLA LIGHTING- RYAN ZINSELMEIER- RYAN.ZINSELMEIER@VILLALIGHTING.COM- 314-531-2600

SITE LIGHTING FIXTURE SCHEDULE 3 E-106

PANDA SITE LIGHTING DESIGN CRITERIA 2 NO SCALE E-106



Plan View
Scale - 1" = 25ft

SITE PHOTOMETRIC PLAN 1 N.T.S. E-106

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CHARLES L. MADDUX REGISTERED LANDSCAPE ARCHITECT AGRICULTURE COMMERCE & CONSTRUCTION STATE OF TENNESSEE 01/30/2023

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CLARKSVILLE, TN 37040

E-106

HOT - MEDIUM
SITE PHOTOMETRIC PLAN

PANDA HOME 2600 R4

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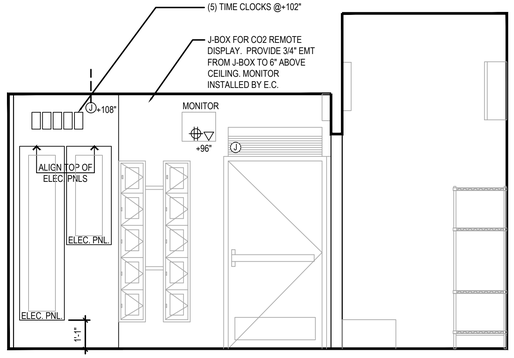
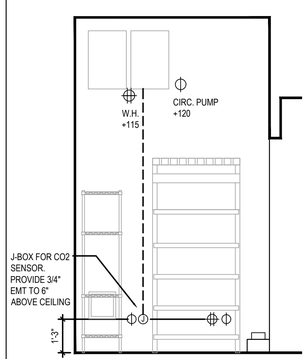
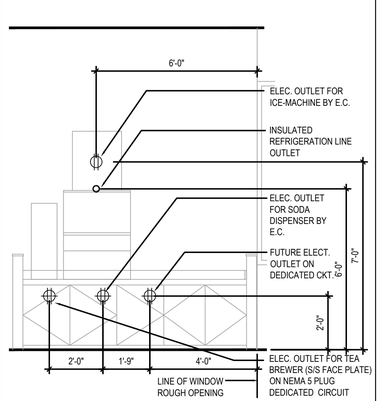


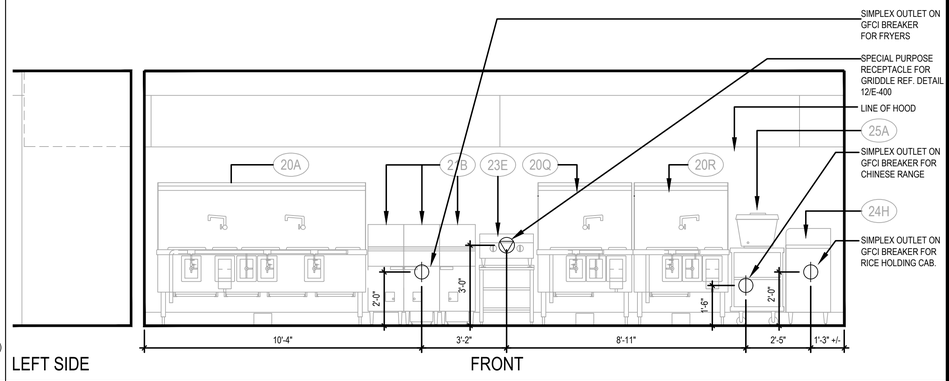
FACING REAR DOOR



B.O.H AREA	9
Scale= 3/8" = 1'-0"	E-200



WATER HEATERS	8
Scale= 3/8" = 1'-0"	E-200



BEVERAGE STATION	5
Scale= 3/8" = 1'-0"	E-200

COOKLINE	3
Scale= 3/8" = 1'-0"	E-200

DRAGON SIGN	7
Scale= 3/8" = 1'-0"	E-200

DRIVE THROUGH AREA	2
Scale= 3/8" = 1'-0"	E-200

SERVICE COUNTER	6
Scale= 3/8" = 1'-0"	E-200

TICKET PRINTER	4
Scale= 3/8" = 1'-0"	E-200

MANAGER'S STATION/SWTICH BANK ELEVATIONS	1
Scale= 3/8" = 1'-0"	E-200

ISSUE FOR BID 01-30-23

PANDA EXPRESS CHINESE KITCHEN

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

ISSUE DATE:

ISSUE FOR PERMIT	10-20-22
ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

MPW

MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4087 FAX

CHARLES L. MADDOX REGISTERED ENGINEER AGRICULTURAL No. 0011198 STATE OF TENNESSEE 01/30/2023

PANDA EXPRESS

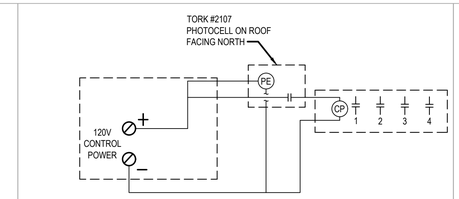
PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

E-200

ELECTRICAL ELEVATIONS

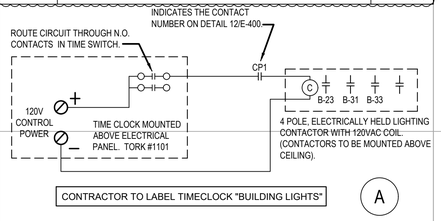
PANDA HOME 2600 R4

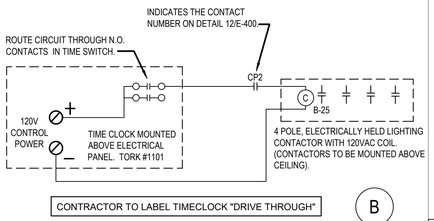
ISSUE FOR BID 01-30-23



PHOTOCELL/TIME CLOCKS — 12

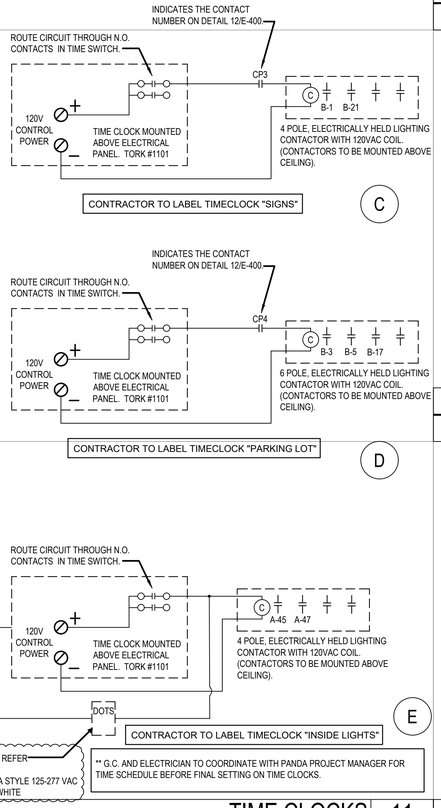
NOT TO SCALE — E-400

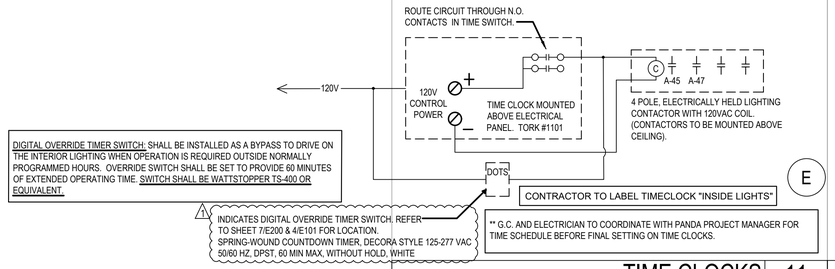




FIRE SUPPRESSION SHUTDOWN — 13

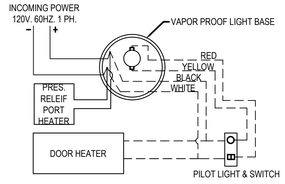
NOT TO SCALE — E-400





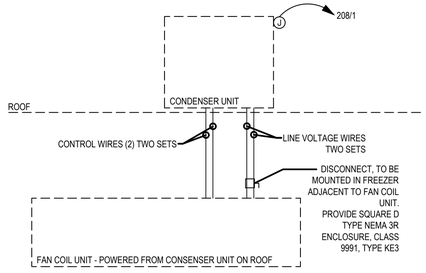
TIME CLOCKS — 11

NOT TO SCALE — E-400



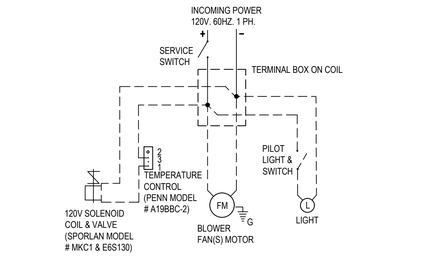
FREEZER LTG & DOOR HTR WIRING DIAGRAM — 10

NOT TO SCALE — E-400



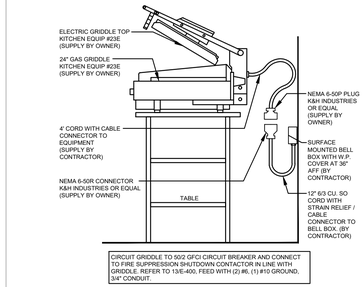
FREEZER EVAPORATOR COIL — 9

NOT TO SCALE — E-400



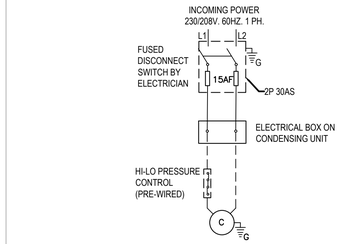
COOLER EVAPORATOR COIL — 8

NOT TO SCALE — E-400



GRIDDLE 23E — 14

NOT TO SCALE — E-400



CONDENSING UNIT — 7

NOT TO SCALE — E-400

1. WIRING SHOULD BE DONE ACCORDING WITH NATIONAL AND LOCAL CODE.

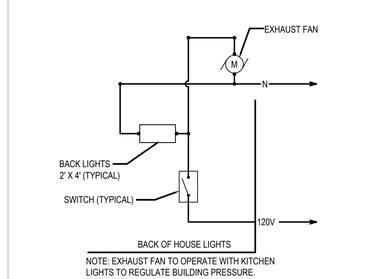
2. CHECK VOLTAGE ON CONDENSING UNIT AND EVAPORATOR COIL BEFORE ANY WORK IS DONE.

3. SOLID LINES TO BE WIRED BY LICENSED ELECTRICIAN ON SITE. DOTTED LINES ARE MANUFACTURE PRE-WIRED.

4. ANY PENETRATIONS THROUGH BOX SHALL BE SEALED AIR TIGHT.

WIC / WIF WIRING NOTES — 6

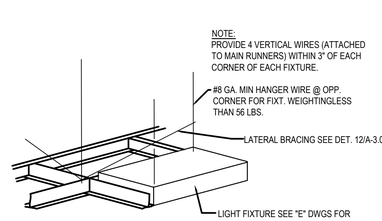
NOT TO SCALE — E-400



NOTE: EXHAUST FAN TO OPERATE WITH KITCHEN LIGHTS TO REGULATE BUILDING PRESSURE.

EXHAUST FAN CONTROL DIAGRAM — 5

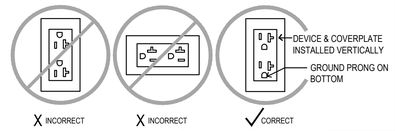
NOT TO SCALE — E-400



LIGHT FIXTURE DETAIL — 4

NOT TO SCALE — E-400

DEVICE ORIENTATION

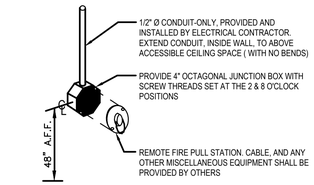


DEVICE & COVERPLATE COLOR

LOCATION	DEVICE COLOR	COVER PLATE COLOR	NOTES
DINING ROOM (WALLS)	VERIFY W/PX	VERIFY W/PX	VERIFY WITH PANDA PM PRIOR TO PURCHASE AND INSTALL
DINING ROOM (IN BULKHEAD ABOVE WINDOWS)	VERIFY W/PX	VERIFY W/PX	VERIFY WITH PANDA PM PRIOR TO PURCHASE AND INSTALL
DINING ROOM (WHEN IN CEILING)	BLACK	BLACK	@ SHOW WINDOW IN DARK CEILING (IF APPLICABLE)
RESTROOM	GREY	STAINLESS STEEL	--
RESTROOM VESTIBULE	GREY	STAINLESS STEEL	--
KITCHEN/SERVICE AREAS	GREY	STAINLESS STEEL	--

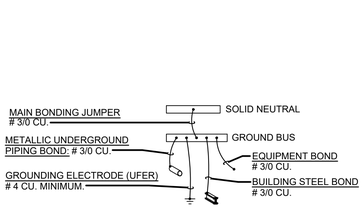
DEVICE / RECEPTACLE SCHEDULE — 3

NOT TO SCALE — E-400



ANSUL PULL STATION DETAIL — 2

NOT TO SCALE — E-400



'SES' GROUNDING DETAIL — 1

NOT TO SCALE — E-400

ISSUE FOR BID 01-30-23

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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ISSUE FOR PERMIT	10-20-22
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DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

MPW
MPW ENGINEERING, LLC
115 W. 7TH STREET • SUITE 605 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4087 FAX

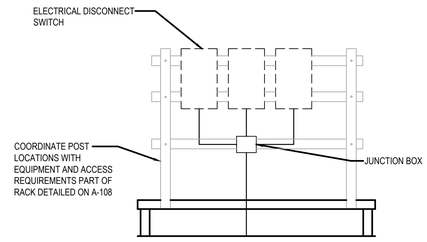
CHARLES L. MADDOX — REGISTERED ENGINEER — AGRICULTURE — COMMERCIAL — 2011 — STATE OF TENNESSEE
01/30/2023

PANDA EXPRESS
PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

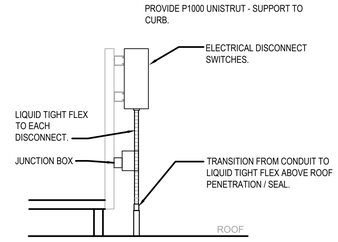
E-400
HOT - MEDIUM
ELECTRICAL DETAILS, DIAGRAMS

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-23



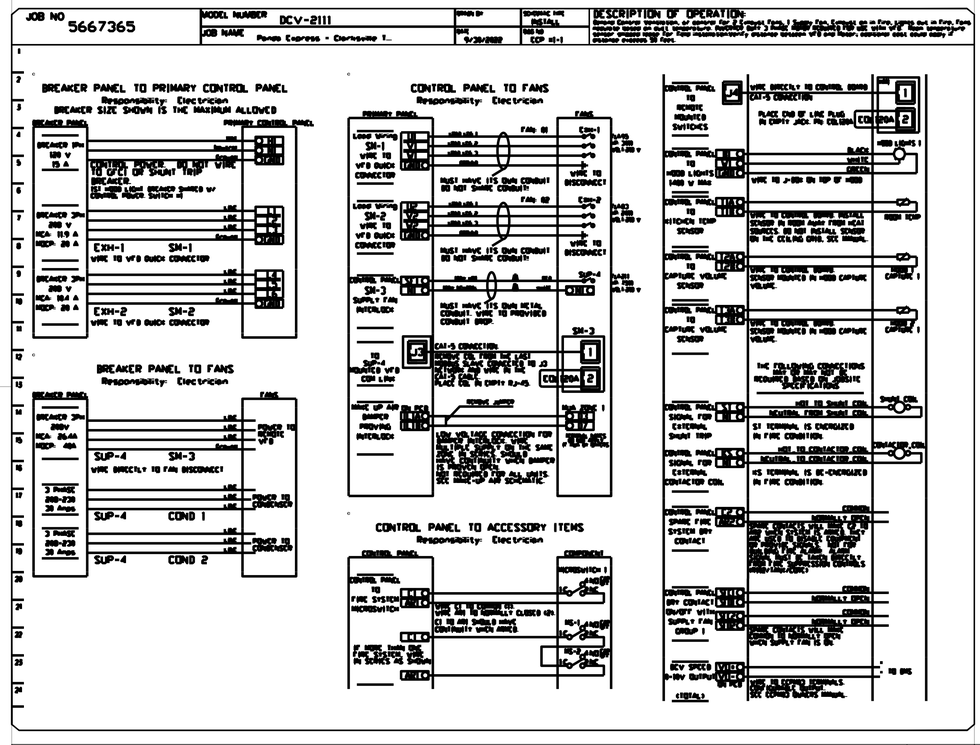
NOTE: LIQUID TIGHT FLEX TO UNITS AND DISCONNECTS NOT SHOWN FOR CLARITY.



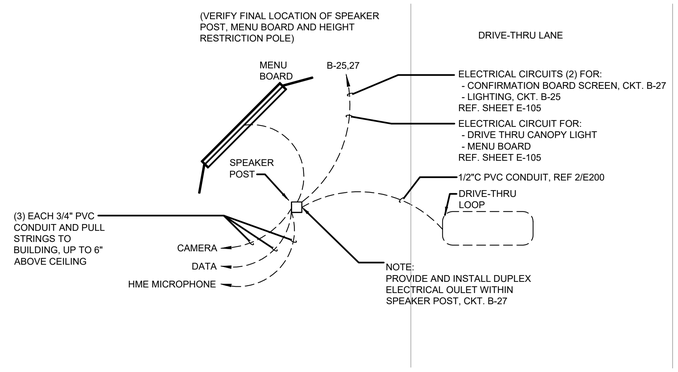
NOTE:
ELECTRICAL CONTRACTOR TO PROVIDE (3) HORIZONTAL UNISTRUTS THAT MOUNT TO VERTICAL PIECES OF RACK. RACK PROVIDED BY OTHERS.
REFER TO ARCHITECTURAL DETAILS, A-108, FOR ADDITIONAL INFORMATION.

EQUIPMENT DISCONNECT SWITCH SUPPORT | 2

NOT TO SCALE | E-401



KITCHEN EXHAUST SYSTEM DIAGRAM | 3



MENU BOARD & SENSOR LOOP | 1

NOT TO SCALE | E-401

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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CHARLES L. MADDUX
REGISTERED ENGINEER
AGRICULTURAL
COMMERCIAL
STRUCTURAL
STATE OF TENNESSEE
01/30/2023

PANDA EXPRESS

PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

E-401

ELECTRICAL DETAILS, DIAGRAMS

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-23

ISSUE FOR BID 01-30-23

PANELBOARD NOTES ( )

(1) KITCHEN EQUIPMENT SHOWN AT 65% IN PANEL TOTALS PER NEC (KITCHEN EQUIPMENT).

(2) TERMINATE GROUND ON ISOLATED GROUND BUS.

(3) ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR, CONTROLLED BY TIMECLOCK. REFER TO DETAILS, SHEET 11/E–400.

(4) WIRE SIZE INCREASE DUE TO VOLTAGE DROP. SIZE EQUIPMENT GROUND CONDUCTOR PROPORTIONALLY PER NEC.

(5) REFER TO ONE–LINE DIAGRAM FOR WIRE SIZES.

(6) GFCI BREAKER

(7) INSTALL LOCKING DEVICE (LOCK–OFF FOR MAITENANCE).

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

PNL A — PANELBOARD (NEW)

MOUNTING: FLUSH WALL MOUNT
LOCATION: ELEC. CABINET
TYPE: BOLT ON W/GROUND BUS
NEMA RATING: 1

INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVER. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS NOT ALLOWED

208Y/120V, 3PH, 4W
400A M.L.O.
SERIES RATED 65/10K A.I.C.
GROUND BUS
ISOLATED GROUND

	DESCRIPTION	WIRE	BRKR	PL	KVA A	KVA B	KVA C	PL	BRKR	WIRE	DESCRIPTION	
1	WIC DISPLAY LTS/MENUBRD/LED	12	20	1	0.33	1.00		1	20	12	FAX '87', MGR '84C', COMP '49A'	2
3	HOOD CONTL PNL 'M4'	12	20	1		0.50	0.60	1	20	12	MUSIC, VCR, MONITOR	4
5	SERVICE POS 94, PTR '86A'(2,6)	12	20	1			1.10 0.50	1	20	12	COMPUTER RECEP '83A' (2)	6
7	D.THRU POS '94'/PTRS '86A'(2,6)	12	20	1	1.10	0.13		1	20	12	10J ICE MACHINE (6)	8
9	95–4–S3', FLY LT,C02 (1,6)	12	20	1		0.82	1.41	2	20	12	CHF–25 'M10' AIR CURTAIN	10
11	RICE WARMER '54A' (1,4)	12	20	1			0.11 1.41					12
13	REF. PREP TABLE '34D' (1)	12	20	1	1.80	1.18		1	20	12	REAR DOOR – FLY FAN 'M8A'	14
15	REF. PREP TABLE "34D" (1)	12	20	1		1.08	0.10	1	20	12	FIRE SUPPRES SHUTDOWN	16
17	UNDER CTR FRZR '30L' (1,4)	10	20	1			1.08 1.18	1	20	12	SIDE DOOR – FLY FAN 'M8C'	18
19	BEVERAGE DISP.'4AB'(1)	12	20	1	1.12	1.30		1	20	10	INDUCT WELL 3F, 3G (1,4,6)	20
21	SERVING COUNTER	12	20	1		0.10	1.30	1	20	10	INDUCT WELL 3F, 3G (1,4,6)	22
23	ICE TEA BREWER '9D'	12	20	1			1.78 1.30	1	20	10	INDUCT WELL 3F, 3G (1,4,6)	24
25	FOOD PROCESSOR '53'	12	20	1	1.20	1.30		1	20	10	INDUCT WELL 3F, 3G (1,4,6)	26
27	ELEC. DOOR EQUIPMENT	12	20	1		0.72	1.30	1	20	10	INDUCT WELL 3F, 3G (1,4,6)	28
29	WALK–IN COOLER COIL '31M'(1)	12	20	1			0.24 1.30	1	20	10	INDUCT WELL 3F, 3G (1,4,6)	30
31	RICE HOLD CAB '24H' (1,4,6)	10	20	1	1.78	1.30		1	20	10	INDUCT WELL 3F, 3G (1,4,6)	32
33	FUTURE CONTROLS (1,6)	12	20	1		0.20	0.84	1	20	12	RAD TOP HEATER 'IS2B1' (1)	34
35	TIMECLOCK	12	20	1			0.01 1.10	1	20	12	RAD TOP HEATER 'IS2B2' (1)	36
37	4B' BOOSTER OUTLET (6)	12	20	1	0.86	1.10		1	20	12	RAD TOP HEATER 'IS2B2' (1)	38
39	HEAT WRAP '32–S7 (4)	12	20	1		0.50		1	20	12	SPARE	40
41	FLY LIGH1 (6)	12	20	1			0.18 1.52	2	20	12	THAWING CABINET	42
43	DUCT DETECTORS	12	20	1	0.20	1.52						44
45	LTG–FOOD PRP/EF3 (4)	10	20	1		1.13		1	20	12	SPARE	46
47	LTG DINING AREA	12	20	1			0.25 1.40	2	15	12	MICROWAVE – 55A (1)	48
49	SHOW WINDOW RECEPS	12	20	1	0.90	1.40						50
51	GENERAL RECEPS	12	20	1		0.72	0.18	1	20	12	FUTURE EQUIPMENT	52
53	EXTERIOR RECEPS	12	20	1			0.36	1	20	12	SPARE	54
55	GREASE REMOVAL	12	20	1	0.18	1.23		2	20	12	ICE MACHINE COND. '10J–S' (1)	56
57	10J ICE MACHINE (6)	12	20	1		0.13	1.23					58
59	GAS WATER HEATER – P3, (6)	12	20	1			0.96 3.33	2	40	8	WALKIN FRZR COND. '32–S1'(1,7)	60
61	ICE TEA BREWER "9D" (1,4)	10	20	1	1.78	3.33						62
63	LTG – RESTRMS	12	20	1		0.07	2.81	2	35	10	WALK IN COOL COND '31–S' (1)	64
65	ROOF RECEPTACLES	12	20	1			0.36 2.81					66
67	DT WINDOW M9A' AIR CURTAIN	12	20	1	0.50	6.24		3	60	6	RTU–3 (LENNOX)	68
69	DRIVE THRU HOT WELL CABINET	6	50	2		2.70	6.24					70
71							2.70 6.24					72
73	ELECTRIC GRIDDLE – "29E" (1,6)	6	50	2	3.79	6.24		3	60	6	RTU–2 (LENNOX)	74
75						3.79	6.24					76
77	SPARE	12	20	1			6.24					78
79	SPACE				3.60			3	45	6	RTU–1 (LENNOX)	80
81	SPACE					3.60						82
83	SPACE						3.60					84
	PANELBOARD TOTALS CALCULATED		TOTAL		46.39	38.30	41.04	KVA				
	PER NEC ARTICLE 220				387	320	343	AMPS				
			TOTAL LOAD		125.73	KVA	349	AMPS				
			FEEDER LOAD		109.59	KVA	305	AMPS				

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

PNL B — PANELBOARD (NEW)

MOUNTING: FLUSH WALL MOUNT
LOCATION: ELEC. CABINET
TYPE: BOLT ON W/GROUND BUS
NEMA RATING: 1

INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVER. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS NOT ALLOWED

208Y/120V, 3PH, 4W
225A M.L.O.
SERIES RATED 65/10K A.I.C.
GROUND BUS

	DESCRIPTION	WIRE	BRKR	PL	KVA A	KVA B	KVA C	PL	BRKR	WIRE	DESCRIPTION	
1	BUILDING SIGN/LOGO (3)	12	20	1	1.00	1.23		2	20	10	ICE MACHINE COND. '10J–S1' (4)	2
3	EXTERIOR POLE MOUNT LTG (3,4)	10	20	1		0.47	1.23					4
5	EXTERIOR POLE MOUNT LTG (3,4)	10	20	1			0.30 0.90	1	20	12	21B MJ345 FRYER (1,6)	6
7	TICKET PRINTER	12	20	1	0.22	5.64		3	60	6	POT WASHER	8
9	BEV. DISPENSER 4AB (1,4)	10	20	1		1.12	5.64					10
11	SECURITY/POS MONITORS	12	20	1			0.10 5.64					12
13	HYPERACTIVE TIMER SYS.	12	20	1	0.10	1.50		1	20	10	MENUBOARD (3,4)	14
15	SIGN DISPLAY	12	20	1		0.26	1.00	1	20	10	THRU ORDER SCREEN	16
17	EXTERIOR POLE MOUNT LTG (3,4)	10	20	1			0.45				SPACE	18
19	COKE CARBONATOR	12	20	1	0.20	2.57		3	30	10	CU–2	20
21	MONUMENT SIGN (3,4)	10	20	1		0.50	2.57					22
23	BUILDING LTG/EM (3)	12	20	1			0.10 2.57					24
25	MENUBOARD (3,4)	10	20	1	1.50	0.71		3	15	12	EF–1	26
27	DR THRU ORDER SCREEN (4)	10	20	1		1.00	0.71					28
29	RTU CONVENIENCE OUTLETS	12	20	1			0.54 0.71					30
31	CANOPY LIGHTING (3)	12	20	1	0.13	0.71		3	15	12	EF–2	32
33	CANOPY LIGHTING (3)	12	20	1		0.13	0.71					34
35	EXTERIOR MOTION SECURITY LED	12	20	1			0.71					36
37	CU–1	10	30	3	2.57	2.40		3	30	10	MAU–1	38
39						2.57	2.40					40
41							2.57 2.40					42
	PANELBOARD TOTALS CALCULATED		TOTAL		20.46	20.30	16.97	KVA				
	PER NEC ARTICLE 220				171	170	142	AMPS				
			TOTAL LOAD		57.72	KVA	161	AMPS				
			FEEDER LOAD		58.84	KVA	164	AMPS				

1

PANEL SCHEDULES 1

NOT TO SCALE E-601

1. UNLESS NOTED, ALL DEVICES AND TERMINATIONS 100 AMPS AND LESS TO BE RATED FOR 60°C WIRE, OVER 100 AMPS, 75°C WIRE.
2. CONTRACTOR TO SUBMIT SERVICE ENTRANCE GEAR SHOP DRAWINGS TO SERVING UTILITY COMPANY FOR APPROVAL.
3. ALL WIRE #8 AND SMALLER TO BE THWN/THHN CU.; #6 AND LARGER TO BE XHHW CU.
4. THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED LOAD CALCULATIONS AND VERIFIES THAT ALL UPSTREAM PANELS AND EQUIPMENT ARE NOT OVERLOADED.
5. E.C. SHALL PROVIDE GROUNDING PER NEC ARTICLE 250, RE: 1/E400 FOR ADDITIONAL INFORMATION.

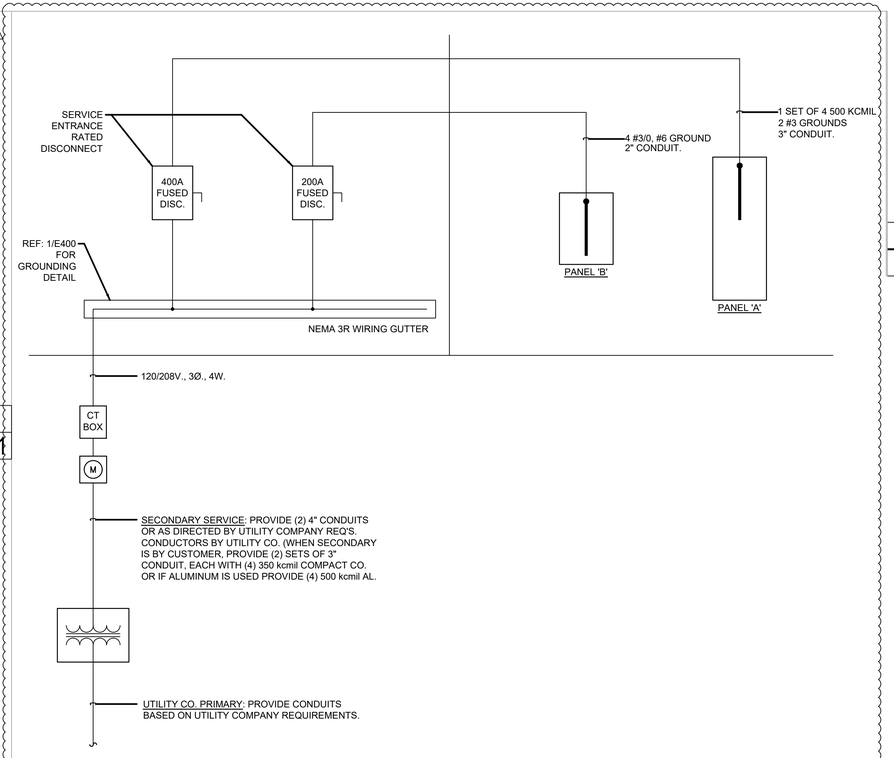
SINGLE LINE DIAGRAM GENERAL NOTES 3

NOT TO SCALE E-601

1. ENTIRE INSTALLATION TO COMPLY WITH N.E.C. 110.22 AND 240.86(B).
2. NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ELECTRICAL ENGINEER AND THE ELECTRICAL INSPECTOR.
3. A TWO TIER 65000/10000 AIC SERIES RATING SYSTEM IS SPECIFIED BETWEEN THE SES MAINS FUSES AND THE PANEL BRANCH CIRCUIT BREAKERS, NO SUBSTITUTIONS - UNLESS A FULLY RATED SYSTEM IS PROVIDED.
4. MOTOR CONTRIBUTION TO THE FAULT CURRENT IS LESS THAN 1% OF THE INTERRUPTING RATING OF THE DOWNSTREAM CIRCUIT BREAKER(S).
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LABELS AT ALL COMPONENTS OF THE SERIES PROTECTED SYSTEM; AT PANEL 'A' STATING "CAUTION - 65/10 SERIES COMBINATION SYSTEM RATED 21,572 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED", AT PANEL 'B' STATING "CAUTION - 65/10 SERIES COMBINATION SYSTEM RATED 20,985 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED". IDENTIFIED REPLACEMENT COMPONENTS REQUIRED"
6. EQUIPMENT SUPPLIER TO PROVIDE CUT SHEETS OF ALL SERIES RATED COMPONENTS (I.E. FUSES, CIRCUIT BREAKERS) HI-LIGHTING EACH ITEM AND THE SPECIFIC LISTING/TESTING OF EACH ITEM'S SERIES RATING WITH THE OTHER.
7. POST THIS INFORMATION ON THE JOB-SITE WITH PERMIT FOR CITY ELECTRICAL INSPECTOR'S REVIEW/APPROVAL.

SERIES RATING NOTES 4

NOT TO SCALE E-601



SINGLE LINE DIAGRAM 2

NOT TO SCALE E-601

ELECTRICAL SERVICE ENTRANCE COORDINATION

NEW SERVICE REQUIRED: 600A, 120/208V, 3 PHASE, 4 WIRE
SERVICE TO BUILDING ROUTED: TBD
AVAILABLE FAULT CURRENT: TBD
METERING LOCATION: EXTERIOR BUILDING

UTILITY COMPANY: XXXXXXXXXXXXXXXXX
NAME OF CONTACT: XXXXXXXXXXXXXXXXX
PHONE: (XXX)–XXX–XXXX
EMAIL: XXXXXXXXXXX@XXXXX.com

ITEMS	CONTRACTOR FURNISHED BY	CONTRACTOR INSTALLED BY	UTILITY COMPANY FURNISHED BY	UTILITY COMPANY INSTALLED BY
PRIMARY CONDUCTORS			X	X
PRIMARY TERMINATIONS			X	X
PRIMARY CONDUIT(S)	X	X		
PRIMARY TRENCH/BACKFILL	X	X		
TRANSFORMER –(CONTRACTOR TO PROVIDE PAD PER/UTILITY REQ'S.)			X	X
SECONDARY CONDUCTORS (FROM XFMR TO UTILITY METER)	X	X		
SECONDARY TERMINATIONS @ TRANSFORMER (GC PROVIDE LUGS)			X	X
SECONDARY TERMINATIONS @ SERVICE ENTRANCE	X	X		
SECONDARY CONDUIT	X	X		
SECONDARY TRENCH/BACKFILL	X	X		
METERING CT'S – TO BE DETERMINED BY UTILITY			X	X
METER HOUSING – PROVIDED BY UTILITY TO CONTRACTOR AT NO CHARGE	X	X		

CONTRACTOR NOTE:
1. CONTRACTOR TO FIELD VERIFY AND COORDINATE THEIR RESPONSIBILITIES FOR ELECTRICAL SERVICE ENTRANCE WITH ELECTRICAL SERVICE PROVIDER; AND PROVIDE BID WITH ALL ASSOCIATED COSTS WITH NO ADDITIONAL COST TO OWNER.

DESIGNER NOTE:
1. ENGINEER/DESIGNER TO MODIFY ELECTRICAL COORDINATION FORM AS PER THEIR CONVERSATION WITH UTILITY PROVIDER.

ISSUE FOR BID 01-30-23

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

ISSUE DATE:

ISSUE FOR PERMIT	10-20-22
ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

MPW
MPW ENGINEERING, LLC
115 W. 7TH STREET • SUITE 605 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4087 FAX

CHARLES L. MADDIX — REGISTERED ENGINEER — AGRICULTURE — COMMERCIAL — RESIDENTIAL — STATE OF TENNESSEE
01/30/2023

PANDA EXPRESS

PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

E-601

PANELS, SINGLE LINE, LOAD CALC'S

PANDA HOME 2600 R4

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