Advance Auto Parts

2056 Genesis Road
Crossville (Cumberland), Tennessee 38555

RESPONSIBILITY MATRIX

ITEM:	FURNISHED BY:	INSTALLED BY:	COMMENTS:
EAS SYSTEM	AAP	AAP	SENSORMTAIC SOLUTIONS CONTACT: SANDY VANOMMEREN, 954-401-6548 SANDRA.VANOMMEREN@JCI.COM
SITE CAMERA	G.C.	G.C.	OXBLUE CONSTRUCTION CAMERA SERVICE CONTACT: JONATHAN GARNER 404-400-7610 JGARNER@OXBLUE.COM
STEEL	G.C.	G.C.	NATIONAL ACCOUNT PREFERRED PRICING AVAILABLE THROUGH LIBERTY STEEL FABRICATION, INC. 256-623-3021 AAP@LIBERTYSTEELINC.COM
H.V.A.C. ROOF TOP UNITS & CURBS	G.C.	G.C.	LENNOX NATIONAL ACCOUNT/NO SUBSTITUTIONS. 1-800-367-6285 OR EMAIL: ADVANCEAUTO@LENNOXIND.COM
H.V.A.C. ROOF TOP UNITS & CURBS (ALTERNATE)	G.C.	G.C.	CARRIER NATIONAL ACCOUNT/NO SUBSTITUTIONS. CONTACT: KEN REVILLA STRATEGIC ACCOUNT MANAGER CARRIER RETAIL STRATEGIC ACCOUNTS CELL 954-218-0070 KEN.REVILLA@CARRIER.COM
TESTING H.V.A.C. AND BALANCING	G.C.	N/A	FROM AN INDEPENDENT TEST AND BALANCE COMPANY THAT IS EITHER A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU CERTIFYING TO AAP THAT THE HVAC IS IN CONFORMITY WITH THE MANUFACTURER'S PERFORMANCE STANDARDS.
SALES FIXTURES, RACKING SYSTEM AND GONDOLAS	AAP	AAP	ALL REQUIRED ANCHORING AND SHORING IS THE RESP. OF THE AAP FIXTURE INSTALLATION TEAM.
FIRE EXTINGUISHERS	G.C.	G.C.	G.C. TO OBTAIN FIRE DEPARTMENT APPROVAL FOR FINAL LOCATIONS AND QUANTITIES. (MIN 4)
MISC. SIGNAGE (ADA REQD., CODE RQMTS, ROOM IDENTIFICATION)	G.C.	G.C.	GRAPHICS AND BRANDING TEMPLATES PROVIDED BY AAP.
EMERGENCY & EXIT LIGHTS	G.C.	G.C.	NATIONAL ACCOUNT/NO SUBSTITUTIONS. CONTACT LOCKE SUPPLY COMPANY (DONALD BROWN) 804-353-2511 EMAIL: AAP@RESCOUSA.COM
EXTERIOR LIGHT FIXTURES & SITE LIGHTING	G.C.	G.C.	NATIONAL ACCOUNT/NO SUBSTITUTIONS. CONTACT LOCKE SUPPLY COMPANY (DONALD BROWN) 804-353-2511 EMAIL: AAP@RESCOUSA.COM
INTERIOR LIGHTING	G.C.	G.C.	NATIONAL ACCOUNT/NO SUBSTITUTIONS. CONTACT US LED 866-312-9191 EMAIL: ADVANCEAUTOPARTS@USLED.COM
PLUMBING FIXTURES INCLUDES EYEWASH STATION	G.C.	G.C.	NATIONAL ACCOUNTS PREFERRED PRICING AVAILABLE THROUGH HAINES, JONES & CADBURY 800-459-7099 EMAIL: AAP@HJCINC.COM
PYLON SIGN	AAP	AAP	E.C. TO PROVIDE A SEPARATE UNDERGROUND CIRCUIT FOR PYLON SIGN. G.C. TO MAKE ALL NECESSARY CONNECTIONS AND INSTALL A WEATHERPROOF RECEPTACLE AT BASE OF POLE, AS NOTED ON PLAN.
ALUMINUM STOREFRONT	G.C.	G.C.	OLDCASTLE BUILDING ENVELOPE NATIONAL ACCOUNT/NO SUBSTITUTIONS. NICHOLAS BUTLER NATIONAL ACCOUNT SALES MANAGER NBUTLER@OBE.COM 972-295-0267
BUILDING SIGNAGE	AAP	AAP	E.C. TO PROVIDE ELECTRICAL CIRCUITS AS NOTED ON PLAN.
TOILET TISSUE DISPENSER PAPER TOWEL DISPENSER SOAP DISPENSER "OPEN" SIGN AT STOREFRONT	AAP	G.C.	WILL BE SHIPPED WITH THE STORE FIXTURE PACKAGE
"COMING SOON" SIGN	AAP	AAP	AAP VENDOR (GC TO REMOVE SIGN)
FIRE ALARM & SECURITY ALARM	*AAP	*AAP	IF REQUIRED BY CODE: E.C. TO PROVIDE ELECTRICAL CIRCUITS AS REQUIRED. * FOR LL UPFIT, BY LL FOR GROUND UP BY DEVELOPER FOR AAP UPFIT G.C. TO COORD. WITH AAP CM
PAINT	G.C.	G.C.	PPG NATIONAL ACCOUNT/NO SUBSTITUTIONS. COMMERCIAL SALES MANAGER RICK GARLAND EMAIL: GARLAN@PPG.COM MOBILE, (317) 318-5800
LOW VOLTAGE CABLES (VOICE, DATA, SPEAKERS)	AAP	AAP	AAP VENDOR TO FURNISH & INSTALL ALL CABLES AND SECURE ALL PERMITS
ROOFING (MATERIAL)	G.C.	G.C.	NO SUBSTITUTIONS. SEE ROOF PLAN (SHEET A4.0) FOR APPROVED VENDORS.
FLOOR FINISH FOR EXPOSED SLAB	G.C.	G.C.	NATIONAL ACCOUNT/NO SUBSTITUTIONS. CONTACT: CURECRETE DISTRIBUTION, INC. 800-998-5664 OR WWW.ASHFORDFORMULA.COM CONTACT: W.R. MEADOWS, INC. 800-342-5976 OR WWW.WRMEADOWS.COM
PAINT MIXING ROOM ASSEMBLY	G.C.	G.C.	NATIONAL ACCOUNT/NO SUBSTITUTIONS. RE: SHEET PR1 FOR CONTACT INFORMATION
PAINT MIXING AREA	G.C.	G.C.	NATIONAL ACCOUNT/NO SUBSTITUTIONS.
STOREFRONT SHADES	G.C.	G.C.	NATIONAL ACCOUNT/NO SUBSTITUTIONS. ROLL-A-SHADE ANTOINE SESSIONS PROJECT MANAGER P: 9512453071 X 131 F: 9512453075 WWW.ROLLASHADE.COM SHEERWEAVE 2705 OYSTER/PEWTER 5% OPENNESS. FIXED SHADES. OYSTER FACES OUTSIDE AND PEWTER FACES INSIDE.
WINDOW TINT	G.C.	G.C.	NATIONAL ACCOUNT/NO SUBSTITUTIONS. INSTALL WINDOW TINT AS PER MERCHANDISE PLAN. LLUMAR SINGLE PANE: DL 05 GE 5R CDF - GRAY LLUMAR DOUBLE PANE: DR 15 SR CDF - GRAY GC TO VERIFY TYPE OF GLAZING IN FIELD.
AIR CURTAIN	G.C.	G.C.	NATIONAL ACCOUNT/NO SUBSTITUTIONS. JAMIE JAZWINSKI - REGIONAL SALES MANAGER POWERED AIRE, INC OFFICE 724-588-3305 CELL 724-866-8628 JAMIEJ@POWEREDAIRE.COM WWW.POWEREDAIRE.COM
ADA CONSULTANT	AAP	AAP	EVAN TERRY ASSOCIATES, LLC. SAMUEL SUMMERS, ADAC ONE PERIMETER PARK SOUTH - SUITE 200S BIRMINGHAM, AL 35243 OFFICE:205-972-9100, CELL:205-480-9521 SSUMMERS@EVANTERRY.COM WWW.EVANTERRY.COM
SECURITY ALARM	AAP	AAP	ADT - MIKE MAYO NATIONAL ACCOUNT MANAGER 5221 VALLEYPARK, VA 24019 PHONE:540-588-2798 MICHAELMAYO@ADT.COM

GENERAL NOTES

1. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES, LAWS AND REGULATIONS. CONSTRUCTION SHALL ALSO COMPLY WITH ADVANCE AUTO PARTS' CRITERIA (UNLESS PRECLUDED PER CODE.)
2. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ADVANCE AUTO PARTS OF ANY DISCREPANCIES PRIOR TO BIDDING.
3. ALL MATERIALS INDICATED AS NEW SHALL BE PROVIDED BY CONTRACTOR UNLESS OTHERWISE NOTED. NO SUBSTITUTIONS ALLOWED.
4. DURING THE COURSE OF CONSTRUCTION, IF THE CONTRACTOR UNCOVERS ANY CODE VIOLATIONS KNOWN TO THE CONTRACTOR OR ANY DISCREPANCY WITH THE DESIGN, SAID CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ADVANCE AUTO PARTS' CONSTRUCTION PROJECT MANAGER IMMEDIATELY.
5. CONTRACTOR SHALL ASSEMBLE AND INSTALL MATERIALS/PRODUCTS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INDUSTRIAL/ASSOCIATION STANDARDS.
6. OPEN CEILING SALES AREA DESIGN: ALL MECHANICAL, ELECTRICAL AND LOW VOLTAGE SHOULD BE STRAIGHT, TRUE, PLUMB AND SQUARE TO THE BUILDING, TIED OFF CONTINUOUSLY TO STRUCTURE AS TIGHT AS POSSIBLE, AND AS CONCEALED AS POSSIBLE. NO FREE AIR OR DIAGONAL ROUTING METHODS.
7. GENERAL CONTRACTOR TO PROVIDE THE FOLLOWING CLOSE OUT DOCUMENTS:
   - 7.1. LIST OF SUBCONTRACTORS
   - 7.2. COPIES OF ALL PERMITS
   - 7.3. HVAC TEST AND BALANCE REPORT
   - 7.4. ROOF WARRANTY
   - 7.5. PAVEMENT CERTIFICATION (ASPHALT & CONCRETE)
   - 7.6. COPY OF CERTIFICATE OF OCCUPANCY LISTING ADVANCE STORES COMPANY, INC. AS THE "OCCUPANT" D.B.A. ADVANCE AUTO PARTS.
   - 7.7. FINAL LIEN WAIVERS AND AFFIDAVITS TO BE PROVIDED BY ALL VENDORS AND SUPPLIERS FOR CONTRACTOR.
   - 7.8. ALL CLOSE-OUT DOCUMENTS ARE TO BE POSTED ELECTRONICALLY TO LUCERNEX
   - 7.9. G.C. IS TO PLACE THE STAMPED SET / CONSTRUCTION / AS BUILT DRAWINGS IN A 4" PVC TUBE. PLACE CAPS AT EACH END AND DRILL 1/4" HOLE INTO EACH END AND MOUNT IN OR ABOUT ELECTRICAL / PHONE BOARD.
8. FINAL CLEANING - COMPLETE THE FOLLOWING CLEANING OPERATIONS BEFORE REQUESTING FINAL INSPECTION.
   - 8.1. REMOVE LABELS THAT ARE NOT PERMANENT LABELS.
   - 8.2. CLEAN TRANSPARENT MATERIALS, INCLUDING MIRRORS AND GLASS IN DOORS AND WINDOWS. REMOVE GLAZING COMPOUND AND OTHER SUBSTANCES THAT ARE NOTICEABLE VISION-OBSCURING MATERIALS.
   - 8.3. CLEAN EXPOSED EXTERIOR AND INTERIOR HARD-SURFACED FINISHES TO A DUST-FREE CONDITION, FREE OF STAINS, FILMS AND SIMILAR FOREIGN SUBSTANCES. LEAVE CONCRETE FLOORS BROOM CLEAN.
   - 8.4. CLEAN PLUMBING FIXTURES TO A SANITARY CONDITION. CLEAN LIGHT FIXTURES AND LAMPS.
   - 8.5. CLEAN THE SITE, INCLUDING LANDSCAPE DEVELOPMENT AREAS, OF RUBBISH, LITTER AND OTHER FOREIGN SUBSTANCES. SWEEP PAVED AREAS BROOM CLEAN; REMOVE STAINS, SPILLS AND OTHER FOREIGN DEPOSITS.
   - 8.6. COMPLY WITH REGULATIONS OF AUTHORITIES HAVING JURISDICTION AND SAFETY STANDARDS FOR CLEANING.
   - 8.7. PRESSURE WASH ENTIRE PARKING LOT AND WALKWAYS ADJACENT TO BUILDING.
9. GENERAL CONTRACTOR RESPONSIBLE TO PRODUCE WEEKLY STATUS REPORT.
10. G.C. TO PROVIDE SNOW REMOVAL SERVICES AS REQUIRED FOR STAND ALONE AND GROUND UP LOCATIONS.

PROJECT DIRECTORY

OWNER: Sparrow Ventures
ADDRESS: 1843 Foreman Drive, Cookeville, TN 38501 — CONTACT:

ENGINEER: Gary Bouton - Bouton Engineering
ADDRESS: 420 N WASHINGTON AVE, SUITE 7, COOKEVILLE, TN 38501 — CONTACT: GARY BOUTON
PHONE: (931) 252-2147
FAX:
EMAIL: GARY@BOUTONCONSULT.COM

MEP ENGINEER: Rob Montgomery - Montgomery Engineering
ADDRESS: 1191 NASHVILLE PIKE, GALLATIN, TN 37066 — CONTACT: ROB MONTGOMERY
PHONE: (615) 230-9089
FAX:
EMAIL: ROBERT@MONTGOMERYENGINEERING.COM

STRUCTURAL ENGINEER: Gary Bouton - Bouton Engineering
ADDRESS: 420 N WASHINGTON AVE, SUITE 7, COOKEVILLE, TN 38501 — CONTACT: GARY BOUTON
PHONE: (931) 252-2147
FAX:
EMAIL: GARY@BOUTONCONSULT.COM

CIVIL ENGINEER: Joe Nichols - Clinton Engineering
ADDRESS: 380 S LOWE AVE, SUITE 6, COOKEVILLE, TN 38501 — CONTACT: JOE NICHOLS
PHONE: (931) 372-0427
FAX:
EMAIL: JNICHOLS@CLINTONENGINEERING.COM

PLANNING & ZONING: City of Crossville Planning Commission
ADDRESS: 392 N MAIN ST, CROSSVILLE, TN 38555 — CONTACT: KEVIN J. DEAN - LOCAL PLANNER
PHONE: (931) 456-8464
FAX:
EMAIL: KEVINDEAN@CROSSVILLETN.GOV

FIRE DEPARTMENT: City of Crossville Fire Department
ADDRESS: 141 HENRY AVE, CROSSVILLE, TN 38555 — CONTACT: CHRIS SOUTH - FIRE CHIEF
PHONE: (931) 484-6144
FAX:
EMAIL:

BUILDING DEPARTMENT: City of Crossville Codes Enforcement
ADDRESS: 392 N MAIN ST, CROSSVILLE, TN 38555 — CONTACT: DANNY THURMAN
PHONE: (931) 456-1830
FAX:
EMAIL:

SHEET INDEX

SPECIAL INSPECTIONS NOTE

ANY SPECIAL INSPECTIONS OR 3RD PARTY ENGINEERING IS THE RESPONSIBILITY OF THE G.C.
G.C. TO COORDINATE WITH THE BUILDING DEPARTMENT FOR TIMING.

SYMBOLS

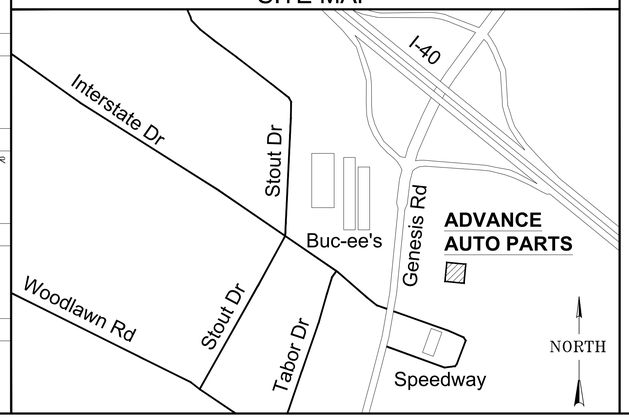
- 1 / A4 — SECTION NUMBER, SHEET WHERE DRAWN, TYP.
- 1 / 2 — FACE OF WALL / COLUMN LINE IDENTIFIER
- FIN. FLR. EL: ±0'-0" — ELEVATION OF FLOOR
- 5 — NOTE REFERENCE
- 100 ROOM NAME / 3 — ROOM NAME AND NUMBER, WALL TYPE NUMBER
- 101 — DOOR NUMBER
- 1 / A3 — EXTERIOR ELEVATION NUMBER, SHEET WHERE DRAWN
- 5 / A7 — DETAIL NUMBER, SHEET WHERE DRAWN

INSULATION REQUIREMENTS

REQUIRED R VALUES BASED ON CLIMATE ZONE 4

ROOF:	R-30 CI	FLOOR:	R-10 (24" BELOW GRADE)
MASS:	R-9.5 CI	OPAQUE ROLL-UP DOORS:	R-4.75
WALLS BELOW GRADE:	R-7.5 CI	SWINGING DOORS:	U-0.61

SITE MAP



THIS BOX IS FOR ADVANCE AUTO PARTS OFFICE USE ONLY

Q2-23 83x83

CODE ANALYSIS

A. BUILDING CRITERIA

BUILDING CODE:	2018 INTL. BUILDING CODE
MECHANICAL CODE:	2018 INTL. MECHANICAL CODE
ELECTRICAL CODE:	2017 NATL. ELECTRICAL CODE
PLUMBING CODE:	2018 INTL. PLUMBING CODE
ENERGY CODE:	2018 INTL. ENERGY CONSERVATION CODE
FIRE CODE:	2018 IFC
ACCESSIBILITY CODE:	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
LOCAL ORDINANCE:	NONE APPLICABLE

OCCUPANCY:	MERCANTILE
BUILDING/CONSTRUCTION TYPE:	VB
SPRINKLERED:	NO
FIRE ALARM:	NO
SEISMIC ZONE (DESIGN CATEGORY):	C
ALLOWABLE BUILDING AREA:	9,000 SQ. FT.
SEPARATE FIXTURE PERMIT REQUIRED:	NO
SEPARATE LOW VOLTAGE PERMIT REQUIRED:	NO

B. BUILDING AREA

MERCANTILE AREA:	2,884	SQ. FT.
STORAGE/STOCK:	4,205	SQ. FT.
TOTAL FLOOR AREA:	6,889	SQ. FT.

C. OCCUPANT LOADING

MERCANTILE @ 60/PERSON =	45
STORAGE/STOCK @300/PERSON =	14
TOTAL OCCUPANT LOAD =	59

D. EGRESS

EGRESS WIDTH REQUIRED:	72"
EGRESS WIDTH PROVIDED:	96"
NUMBER OF EXITS REQUIRED:	2
NUMBER OF EXITS PROVIDED:	2

E. PLUMBING FIXTURE COUNT

MALE QUANTITIES:	
TOILET ROOMS REQUIRED:	1
LAVATORIE(S):	1
WATER CLOSET(S):	1
URINAL(S):	0
FEMALE QUANTITIES:	
TOILET ROOMS REQUIRED:	1
LAVATORIE(S):	1
WATER CLOSET(S):	1
DRINKING FOUNTAIN(S)	
NUMBER REQUIRED:	2
BI-LEVEL (HI / LO):	YES
MOP SINK REQUIRED:	1

J&S Construction Co. Inc.
1843 Foreman Drive
Cookeville, TN. 38501
931-528-7475
jsconstruction.com

sparrow Ventures
931-261-7006

BOUTON ENGINEERING
Structural • Civil Consulting
420 N. Washington Ave., Suite 7
Cookeville, TN 38501
boutonconsult.com

A New Store for **Advance Auto Parts** *Store # 17061*
2056 Genesis Road *(Genesis Rd & Interstate Dr Lot #2)*
Crossville, TN 38555

REVISIONS

REV	DATE	DESCRIPTION

Project Number	23-81
Date:	07-10-2023
Drawn by:	J DORRIS
Checked by:	G BOUTON

CONSTRUCTION DOCUMENTS

GARY A. BOUTON — REGISTERED ENGINEER — AGRICULTURE — 07-10-2023 — COMMERCE — NO. 110862 — STATE OF TENNESSEE

TITLE SHEET

T1

LANDSCAPING NOTES:

A. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING ALL REQUIRED LANDSCAPING AND IRRIGATION FOR THE ENTIRE SITE, TO INCLUDE BUT NOT LIMITED TO: SODDED AREAS, SHRUB BEDS, PARKING LOT ISLANDS, ROADSIDE SIGN BASE(S) AND MONUMENT PLANTERS.

B. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES REGARDING LANDSCAPING.

C. IRRIGATION CONTRACTOR SHALL BE EXPERIENCED IN IRRIGATION DESIGN AND INSTALLATION AND SHALL PROVIDE PROOF OF CERTIFICATION AS A "CERTIFIED IRRIGATION CONTRACTOR" ACCORDING TO THE IRRIGATION ASSOCIATION OF AMERICA. CONTRACTOR SHALL PROVIDE AN IRRIGATION SYSTEM INSTALLATION WITH 100% COVERAGE OF DESIGNATED PLANTING AREAS USING HEAD TO HEAD COVERAGE, MINIMIZING POSSIBLE OVERTHROW ONTO NON-POROUS SURFACES. IRRIGATION SYSTEM SHALL BE ZONED AND TIMED AS APPROPRIATE TO MEET PLANT MATERIAL AND LAWN AREA WATERING REQUIREMENTS. TIMER/CONTROL TO BE LOCATED INSIDE BUILDING NEAR ELECTRICAL PANEL.

D. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH A HEALTHY STAND OF GRASS ON ALL SEEDED OR SODDED AREAS.

E. IN THE EVENT THAT PLANTING BEDS AND MULCH ARE REQUIRED, THE CONTRACTOR SHALL INSTALL BLACK FABRIC WEED BLOCK LANDSCAPE MESH UNDER THE MULCH TO PREVENT WEED GROWTH.

F. CONTRACTOR SHALL PROVIDE NATURAL TOPSOIL THAT IS FERTILE, FRIABLE, WITHOUT MIXTURE OF SUBSOIL MATERIALS, AND OBTAINED FROM A WELL DRAINED, AVAILABLE SITE. IT SHALL NOT CONTAIN SUBSTANCES WHICH MAY BE HARMFUL TO PLANT GROWTH. TOPSOIL SHALL BE SCREENED AND FREE FROM CLAY, LUMPS, STONES, ROOTS, PLANTS, OR SIMILAR SUBSTANCES 1" OR MORE IN DIAMETER, DEBRIS, OR OTHER OBJECTS WHICH MIGHT BE A HINDRANCE TO PLANTING OPERATIONS. TOPSOIL SHALL CONTAIN AT LEAST 4-6% ORGANIC MATTER BY WEIGHT AND HAVE A PH RANGE OF 5.5 TO 7.0 OR AS APPLICABLE TO THE REGION.

G. CONTRACTOR SHALL BE RESPONSIBLE FOR THE WATERING AND THE MAINTENANCE OF ALL LANDSCAPED AREAS FOR SIXTY (60) DAYS FOLLOWING THE PLANTING OF THE GRASS AND SHRUBS. CONTRACTOR TO WARRANTY ALL LANDSCAPING FOR A TOTAL OF 1 YEAR.

H. GENERAL CONTRACTOR IS TO CLEAN ENTIRE SITE OF ALL CONSTRUCTION DEBRIS AND RAKE ALL GRASS AREAS. GRASS (SOD) TO BE LEVEL, ROLLED AND MOWABLE.

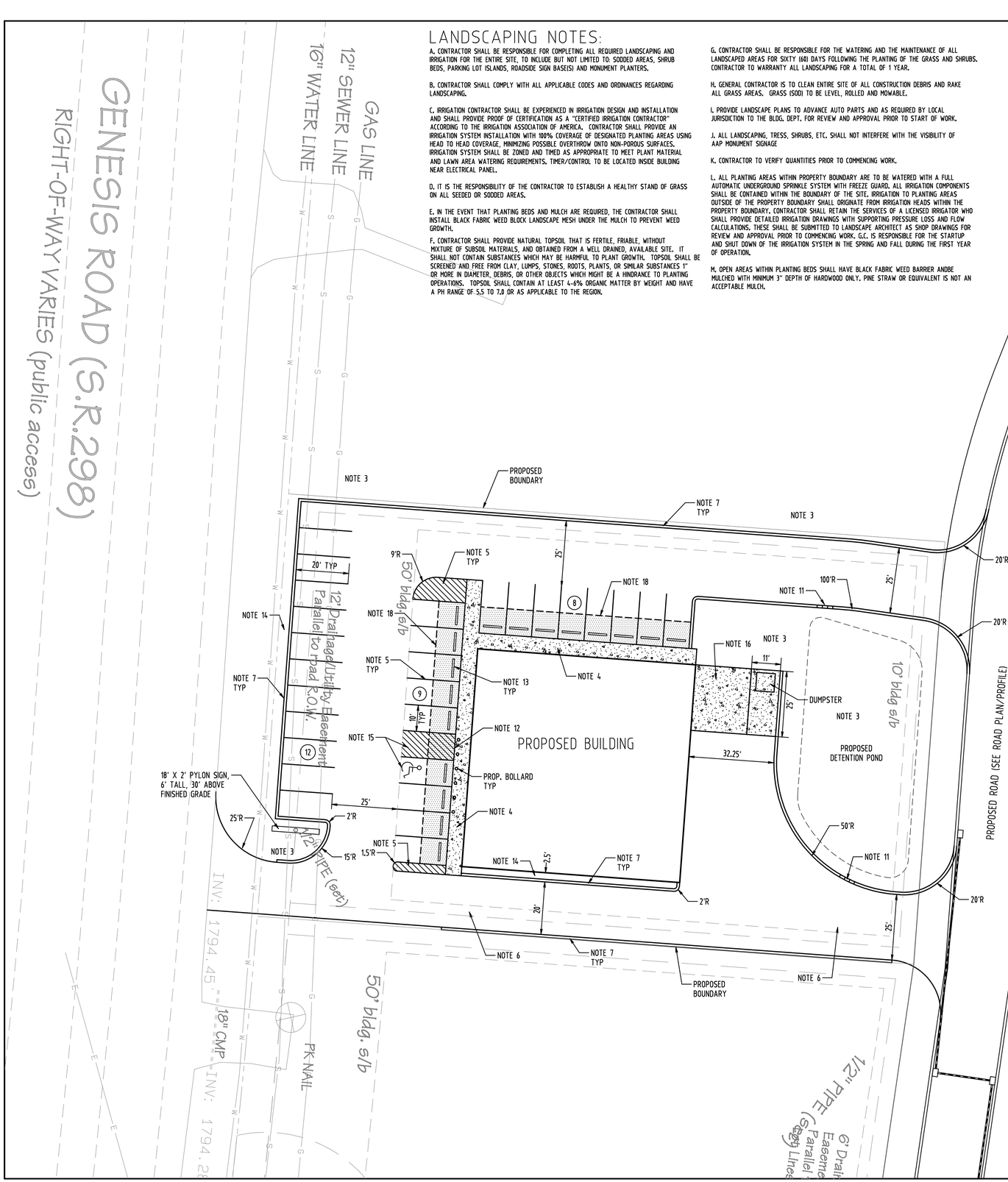
I. PROVIDE LANDSCAPE PLANS TO ADVANCE AUTO PARTS AND AS REQUIRED BY LOCAL JURISDICTION TO THE BLDG. DEPT. FOR REVIEW AND APPROVAL PRIOR TO START OF WORK.

J. ALL LANDSCAPING, TRESS, SHRUBS, ETC. SHALL NOT INTERFERE WITH THE VISIBILITY OF AAP MONUMENT SIGNAGE

K. CONTRACTOR TO VERIFY QUANTITIES PRIOR TO COMMENCING WORK.

L. ALL PLANTING AREAS WITHIN PROPERTY BOUNDARY ARE TO BE WATERED WITH A FULL AUTOMATIC UNDERGROUND SPRINKLE SYSTEM WITH FREEZE GUARD. ALL IRRIGATION COMPONENTS SHALL BE CONTAINED WITHIN THE BOUNDARY OF THE SITE. IRRIGATION TO PLANTING AREAS OUTSIDE OF THE PROPERTY BOUNDARY SHALL ORIGINATE FROM IRRIGATION HEADS WITHIN THE PROPERTY BOUNDARY. CONTRACTOR SHALL RETAIN THE SERVICES OF A LICENSED IRRIGATOR WHO SHALL PROVIDE DETAILED IRRIGATION DRAWINGS WITH SUPPORTING PRESSURE LOSS AND FLOW CALCULATIONS. THESE SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT AS SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. G.C. IS RESPONSIBLE FOR THE STARTUP AND SHUT DOWN OF THE IRRIGATION SYSTEM IN THE SPRING AND FALL DURING THE FIRST YEAR OF OPERATION.

M. OPEN AREAS WITHIN PLANTING BEDS SHALL HAVE BLACK FABRIC WEED BARRIER ANDBE MULCHED WITH MINIMUM 3" DEPTH OF HARDWOOD ONLY. PINE STRAW OR EQUIVALENT IS NOT AN ACCEPTABLE MULCH.



SITE PLAN - NOTES

1. THE LOCATION OF THE EXISTING UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS PRIOR TO BEGINNING OF CONSTRUCTION OPERATIONS TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES. THE CONTRACTOR SHALL IDENTIFY AND PROTECT FROM DAMAGE ALL EXISTING UTILITIES WHICH ARE TO REMAIN.
2. LIGHT DUTY ASPHALT PAVEMENT. SEE DETAIL SHEET.
3. GRASSED/LANDSCAPED AREA. CONTRACTOR SHALL INSTALL TOPSOIL TO A MIN. DEPTH OF 6" ON ALL DISTURBED AREAS OUTSIDE OF BUILDING/PAVING. CONTRACTOR SHALL SEED ALL AREAS OUTSIDE BUILDING, PAVING AND LANDSCAPE AREAS IN ACCORDANCE WITH SECTION 801 OF THE LATEST TDOT STANDARD SPECIFICATIONS.
4. PROPOSED CONCRETE SIDEWALK, 6' WIDE TYP. SEE DETAIL. CONTRACTOR SHALL PAINT (YELLOW) THE VERTICAL SURFACE AND 6" WIDTH OF HORIZONTAL SURFACE AT LOCATIONS WHERE SIDEWALK IS NOT FLUSH WITH PAVEMENT.
5. PAINTED STRIPING; 4" IN WIDTH.
6. HEAVY DUTY ASPHALT PAVEMENT. SEE DETAIL SHEET.
7. PROPOSED EXTRUDED CURB. SEE DETAIL SHEET.
8. PROPOSED LANDSCAPING SHALL MEET "OFFICIAL ZONING CODE FOR CITY OF CROSSVILLE" REQUIREMENTS.
9. SEE ARCHITECTURAL PLAN FOR EXACT DIMENSIONS OF BUILDING AND BUILDING DETAILS.
10. PROPOSED CONCRETE PAVEMENT. SEE ARCHITECTURAL DRAWINGS FOR REQUIREMENTS.
11. PROPOSED 2' WIDE CURB CUT. SEE DETAIL SHEET.
12. PAVEMENT SHALL BE FLUSH WITH TOP OF SIDEWALK IN HANDICAP AREA.
13. PROPOSED WHEEL STOP. SEE DETAIL SHEET.
14. PROPOSED SOD
15. PROPOSED HANDICAP STRIPING. SEE DETAIL SHEET.
16. INSTALL NEW 6" THICK CONCRETE LOADING PAD OF 4000 PSI BROOM FINISHED CONCRETE WITH 6"x6"x 1/8" WWF STEEL REINFORCEMENT. SLOPE AWAY FROM BUILDING FOR POSITIVE DRAINAGE. REFER TO DETAIL SHEET.
17. PROVIDE BOLLARDS AT ALL EXTERIOR MOUNTED METERING DEVICES. (GAS, WATER, ELECTRIC) MIN. (2) TWO AS REQUIRED - SEE DETAIL SHEET.
18. 6" CONCRETE APRON WITH 6" X 6" X 1/6" W.W.F. STEEL REINFORCEMENT. USE 4000 PSI CONCRETE MIX. DO NOT USE SLAG OR FLY ASH FOR CEMENTITIOUS MATERIAL.
19. THE DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR SETUP AND COSTS OF ALL TEMPORARY UTILITY SERVICES (INCLUDING TEMPORARY POWER) UNTIL THE PROJECT IS TURNED OVER TO AND ACCEPTED BY ADVANCE AUTO PARTS.
20. THE CONTRACTOR IS TO PRESSURE WASH ALL PAVED AREAS AND SIDEWALKS THE MORNING PRIOR TO STORE OPENING.
21. THE CONTRACTOR SHALL FURNISH AND INSTALL A MAILBOX ON SITE. THE MAILBOX TYPE, LOCATION, AND INSTALLATION SHALL COMPLY WITH THE LOCAL U.S. POST OFFICE REQUIREMENTS. VERIFY REQUIREMENTS PRIOR TO PURCHASE AND ROUGH-IN.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SIGNED AND SEALED CERTIFICATION THAT PARKING LOT MEETS REQUIREMENTS SET FORTH IN THE CONSTRUCTION DOCUMENTS.

SITE DATA

SITE AREA
40,290 SQ. FT.
0.92 ACRE (S)

BUILDING	0.16 ACRE (S)	17.4% OF TOTAL AREA
PAVEMENT	0.58 ACRE (S)	63.0% OF TOTAL AREA
GREEN/OPEN SPACE	0.18 ACRE (S)	19.6% OF TOTAL AREA

BUILDING SETBACKS

	REQUIRED	PROVIDED
FRONT	50' FT.	50' FT.
REAR	10' FT.	10' FT.
SIDE	10' FT.	10' FT.
SIDE	10' FT.	10' FT.

MAXIMUM BUILDING HEIGHT
18 FT. (1-STORY)

PARKING PROVIDED

REGULAR	28 SPACES
HANDICAP	1 SPACE (S)
TOTAL	29 SPACES

J&S Construction Co. Inc.
1843 Foreman Drive
Cookeville, TN. 38501
931-528-7475
jsconstruction.com

sparrow Ventures
931-261-7006

BOUTON ENGINEERING
Structural • Civil Consulting
BOUTON ENGINEERING
420 N. Washington Ave., Suite 7
Cookeville, TN 38501
boutonconsult.com

A New Store for
Advance Auto Parts Store # 17061
2056 Genesis Road (Genesis Rd & Interstate Dr Lot #2)
Crossville, TN 38555

REVISIONS		
REV	DATE	DESCRIPTION

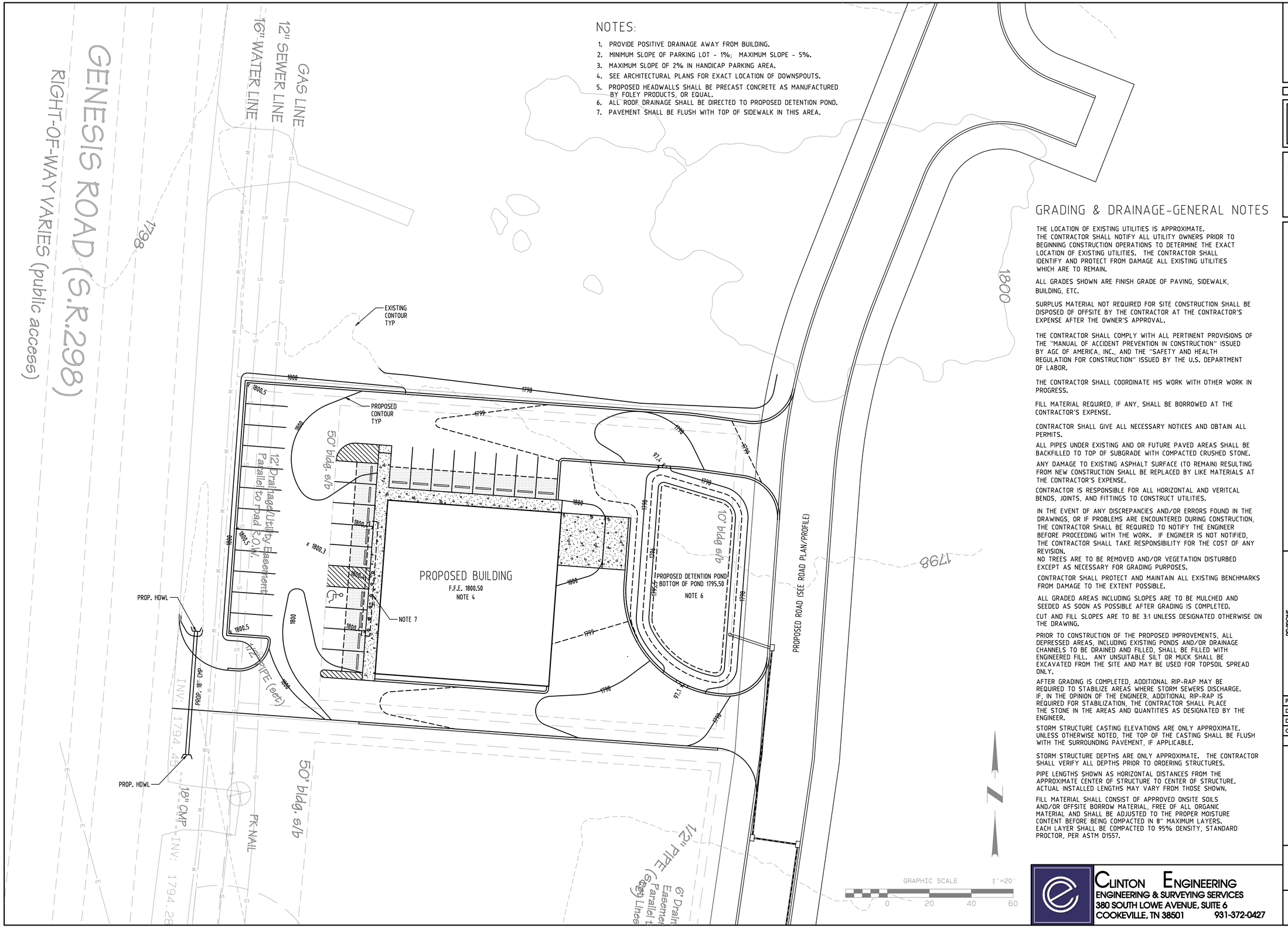
Project Number	23-019
Date:	07-19-2023
Drawn by:	CS
Checked by:	PS

CONSTRUCTION DOCUMENTS

CLINTON ENGINEERING
ENGINEERING & SURVEYING SERVICES
380 SOUTH LOWE AVENUE, SUITE 6
COOKEVILLE, TN 38501 931-372-0427

SITE PLAN

C-2.0



NOTES:

1. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING.
2. MINIMUM SLOPE OF PARKING LOT - 1%; MAXIMUM SLOPE - 5%.
3. MAXIMUM SLOPE OF 2% IN HANDICAP PARKING AREA.
4. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF DOWNSPOUTS.
5. PROPOSED HEADWALLS SHALL BE PRECAST CONCRETE AS MANUFACTURED BY FOLEY PRODUCTS, OR EQUAL.
6. ALL ROOF DRAINAGE SHALL BE DIRECTED TO PROPOSED DETENTION POND.
7. PAVEMENT SHALL BE FLUSH WITH TOP OF SIDEWALK IN THIS AREA.

GRADING & DRAINAGE-GENERAL NOTES

THE LOCATION OF EXISTING UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS PRIOR TO BEGINNING CONSTRUCTION OPERATIONS TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES. THE CONTRACTOR SHALL IDENTIFY AND PROTECT FROM DAMAGE ALL EXISTING UTILITIES WHICH ARE TO REMAIN.

ALL GRADES SHOWN ARE FINISH GRADE OF PAVING, SIDEWALK, BUILDING, ETC.

SURPLUS MATERIAL NOT REQUIRED FOR SITE CONSTRUCTION SHALL BE DISPOSED OF OFFSITE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AFTER THE OWNER'S APPROVAL.

THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY AGC OF AMERICA, INC., AND THE "SAFETY AND HEALTH REGULATION FOR CONSTRUCTION" ISSUED BY THE U.S. DEPARTMENT OF LABOR.

THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER WORK IN PROGRESS.

FILL MATERIAL REQUIRED, IF ANY, SHALL BE BORROWED AT THE CONTRACTOR'S EXPENSE.

CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES AND OBTAIN ALL PERMITS.

ALL PIPES UNDER EXISTING AND OR FUTURE PAVED AREAS SHALL BE BACKFILLED TO TOP OF SUBGRADE WITH COMPACTED CRUSHED STONE.

ANY DAMAGE TO EXISTING ASPHALT SURFACE (TO REMAIN) RESULTING FROM NEW CONSTRUCTION SHALL BE REPLACED BY LIKE MATERIALS AT THE CONTRACTOR'S EXPENSE.

CONTRACTOR IS RESPONSIBLE FOR ALL HORIZONTAL AND VERITCAL BENDS, JOINTS, AND FITTINGS TO CONSTRUCT UTILITIES.

IN THE EVENT OF ANY DISCREPANCIES AND/OR ERRORS FOUND IN THE DRAWINGS, OR IF PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. IF ENGINEER IS NOT NOTIFIED, THE CONTRACTOR SHALL TAKE RESPONSIBILITY FOR THE COST OF ANY REVISION.

NO TREES ARE TO BE REMOVED AND/OR VEGETATION DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES.

CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING BENCHMARKS FROM DAMAGE TO THE EXTENT POSSIBLE.

ALL GRADED AREAS INCLUDING SLOPES ARE TO BE MULCHED AND SEEDED AS SOON AS POSSIBLE AFTER GRADING IS COMPLETED.

CUT AND FILL SLOPES ARE TO BE 3:1 UNLESS DESIGNATED OTHERWISE ON THE DRAWING.

PRIOR TO CONSTRUCTION OF THE PROPOSED IMPROVEMENTS, ALL DEPRESSED AREAS, INCLUDING EXISTING PONDS AND/OR DRAINAGE CHANNELS TO BE DRAINED AND FILLED, SHALL BE FILLED WITH ENGINEERED FILL. ANY UNSUITABLE SILT OR MUCK SHALL BE EXCAVATED FROM THE SITE AND MAY BE USED FOR TOPSOIL SPREAD ONLY.

AFTER GRADING IS COMPLETED, ADDITIONAL RIP-RAP MAY BE REQUIRED TO STABILIZE AREAS WHERE STORM SEWERS DISCHARGE. IF, IN THE OPINION OF THE ENGINEER, ADDITIONAL RIP-RAP IS REQUIRED FOR STABILIZATION, THE CONTRACTOR SHALL PLACE THE STONE IN THE AREAS AND QUANTITIES AS DESIGNATED BY THE ENGINEER.

STORM STRUCTURE CASTING ELEVATIONS ARE ONLY APPROXIMATE. UNLESS OTHERWISE NOTED, THE TOP OF THE CASTING SHALL BE FLUSH WITH THE SURROUNDING PAVEMENT, IF APPLICABLE.

STORM STRUCTURE DEPTHS ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DEPTHS PRIOR TO ORDERING STRUCTURES.

PIPE LENGTHS SHOWN AS HORIZONTAL DISTANCES FROM THE APPROXIMATE CENTER OF STRUCTURE TO CENTER OF STRUCTURE. ACTUAL INSTALLED LENGTHS MAY VARY FROM THOSE SHOWN.

FILL MATERIAL SHALL CONSIST OF APPROVED ONSITE SOILS AND/OR OFFSITE BORROW MATERIAL, FREE OF ALL ORGANIC MATERIAL AND SHALL BE ADJUSTED TO THE PROPER MOISTURE CONTENT BEFORE BEING COMPACTED IN 8" MAXIMUM LAYERS. EACH LAYER SHALL BE COMPACTED TO 95% DENSITY, STANDARD PROCTOR, PER ASTM D1557.

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1843 Foreman Drive
Cookeville, TN. 38501
931-528-7475
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sparrow Ventures
931-261-7006

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420 N. Washington Ave., Suite 7
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A New Store for
Advance Auto Parts Store # 17061
2056 Genesis Road (Genesis Rd & Interstate Dr Lot #2)
Crossville, TN 38555

REVISIONS		
REV	DATE	DESCRIPTION

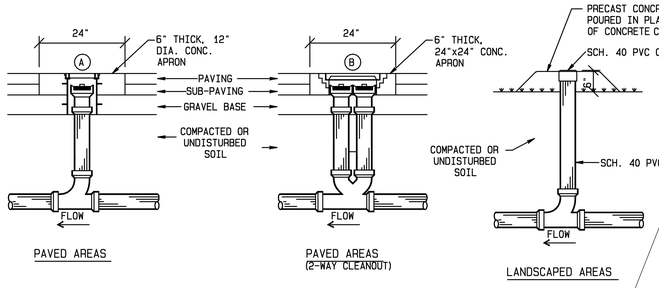
Project Number	23-019
Date:	07-18-2023
Drawn by:	CS
Checked by:	PS

CONSTRUCTION DOCUMENTS

CLINTON ENGINEERING
ENGINEERING & SURVEYING SERVICES
380 SOUTH LOWE AVENUE, SUITE 6
COOKEVILLE, TN 38501 931-372-0427

GRADING PLAN

C-3.0



(A) JOSAM SERIES 58860-22 ACCESS COVER AND CLEANOUT WITH TAPER THREAD BRONZE PLUG SERIES 58540-20 AND "SAN." ON COVER (OR APPROVED EQUIVALENT).

(B) NEENAH MODEL R-6660-DP LIGHT DUTY ACCESS COVER WITH TWO (2) JOSAM SERIES 58190-22 CLEANOUTS WITH TAPER THREAD BRONZE PLUG SERIES 58540-20 (OR APPROVED EQUIVALENT).

2 / U1 EXTERIOR CLEANOUT DETAIL
SCALE: NONE

TYPICAL FIRE HYDRANT ASSEMBLY
NOT TO SCALE

CALL BEFORE YOU DIG ! 1-800-351-1111 TENNESSEE ONE CALL IT'S THE LAW !

PLUMBING KEYED NOTES

P1 PROPOSED 4" SEWER LINE. CONTRACTOR SHALL INSTALL NEW 4" SEWER LINE TO EXISTING MANHOLE LOCATED APPROXIMATELY 230' SOUTH OF THE SOUTHERN PROPERTY BOUNDARY. MIN SLOPE OF THE 4" SEWER LINE SHALL BE 1%.

P2 COORDINATE WITH LOCAL WATER AUTHORITY TO CONNECT THE NEW 6" WATER LINE TO THE EXISTING 6" WATER STUB PER LOCAL STANDARDS AND REGULATIONS. FIELD VERIFY THE EXACT LOCATION, SIZE AND BURY DEPTH OF THE EXITING STUB.

P3 COORDINATE WITH LOCAL SEWER AUTHORITY TO CONNECT THE NEW 4" SAN. SEWER SERVICE PIPING TO THE PROPOSED 4" SEWER LINE PER LOCAL STANDARDS AND REGULATIONS. FIELD VERIFY THE INVERT ELEVATION FOR THE NEW CONNECTION.

P4 NEW 4" UNDERGROUND SAN. SEWER, SLOPE AT 1% MINIMUM. MINIMUM COVER SHALL BE 24" OR AS REQUIRED TO BE BELOW FROST DEPTH.

P5 PROVIDE SAN. SEWER CLEANOUT TO GRADE. FIELD VERIFY EXACT LOCATION. SET TOP IN CONCRETE FLUSH WITH FIN. GRADE. CLEANOUT SHALL BE PER DETAILS. SEE PLUMBING SPECIFICATIONS FOR CLARIFICATION.

P6 PROVIDE A TWO-WAY SAN. SEWER CLEANOUT TO GRADE, SET TOP IN CONCRETE FLUSH WITH FIN. GRADE. LOCATE WITHIN 5' OF BUILDING EXTERIOR WALL. REFER TO DRAWING P1. CLEANOUT SHALL BE SUITABLE FOR HEAVY TRAFFIC LOADING. REFER TO THE PLUMBING SPECIFICATIONS FOR CLARIFICATION.

P7 CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION, SIZE, ROUTING AND UTILITY PREFERRED TAP LOCATION OR SERVICE STUB-OUTS (IF ANY) PRIOR TO TRENCHING FOR NEW WATER PIPING.

P8 COORDINATE WITH LOCAL WATER AUTHORITY TO CONNECT THE NEW 6" WATER SERVICE PIPING TO THE NEW 6" WATER MAIN PER LOCAL STANDARDS AND REGULATIONS. FIELD VERIFY THE EXACT LOCATION, SIZE AND BURY DEPTH OF TAP.

P9 NEW 6" UNDERGROUND WATER SERVICE PIPING. PROVIDE 1" BRANCH TO SERVE SITE IRRIGATION SYSTEM BY OTHERS.

P10 G.C. TO COORDINATE WITH THE LOCAL WATER AUTHORITY AND PROVIDE A 3/4" IRRIGATION WATER METER WITH REMOTE READOUT IN ROADWAY BOX AT THE PROPERTY LINE. WHEN REQUIRED, PROVIDE WATER AUTHORITY APPROVED BACKFLOW PREVENTION DEVICE IN VAULT, VAULT(S) AND VALVING SHALL BE PER LOCAL WATER AUTHORITY STANDARDS AND REGULATIONS. EXTEND 1" IRRIGATION SERVICE PIPING ACROSS PROPERTY LINE AND CAP AND MARK FOR FUTURE CONNECTION.

P11 COORDINATE WITH THE LOCAL WATER AUTHORITY TO PROVIDE A 3/4" DOMESTIC WATER METER WITH REMOTE READOUT IN ROADWAY BOX AT THE PROPERTY LINE. WHEN REQUIRED, PROVIDE WATER AUTHORITY APPROVED BACKFLOW PREVENTION DEVICE IN VAULT, VAULT(S) AND VALVING SHALL BE PER LOCAL WATER AUTHORITY STANDARDS AND REGULATIONS.

P12 1" UNDERGROUND DOMESTIC C.W. SERVICE. MINIMUM COVER SHALL BE 24" OR AS REQUIRED TO BE BELOW FROST DEPTH OR IN ACCORDANCE WITH LOCAL WATER AUTHORITY REGULATIONS.

P13 MAINTAIN MINIMUM 10'-0" HORIZONTAL SEPARATION BETWEEN ON-SITE SAN. SEWER AND DOMESTIC OR IRRIGATION WATER PIPING WHENEVER POSSIBLE. WHERE WATER PIPING MUST CROSS OVER SAN. SEWER PIPING, MAINTAIN A MINIMUM 18" VERTICAL SEPARATION. WHERE SAN. SEWER PIPING MUST CROSS OVER WATER PIPING, MAINTAIN A MINIMUM 24" VERTICAL SEPARATION AND PROVIDE MIN. 4" THICK CONCRETE ENCASEMENT OR 4" CONTINUOUS CAST IRON PIPE SLEEVE ON WATER PIPING FOR A MINIMUM OF 10'-0" ON EACH SIDE OF THE SAN. SEWER CROSSING. WHERE PERMITTED BY LOCAL CODE, DOMESTIC WATER AND SAN. SEWER SERVICE PIPING MAY BE INSTALLED IN A COMMON TRENCH. TRENCH AND PIPING PLACEMENT SHALL COMPLY WITH ALL GOVERNING CODES AND REGULATIONS.

P14 PROPOSED FIRE HYDRANT ASSEMBLY. SEE DETAIL.

GRAPHIC SCALE 1"=20'
0 20 40 60

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A New Store for
Advance Auto Parts *Store # 17061*
2056 Genesis Road *Genesis Rd & Interstate Dr Lot #2)*
Crossville, TN 38555

REV	DATE	DESCRIPTION
1	9-12-23	CHANGED TIE TO SEWER SERVICE

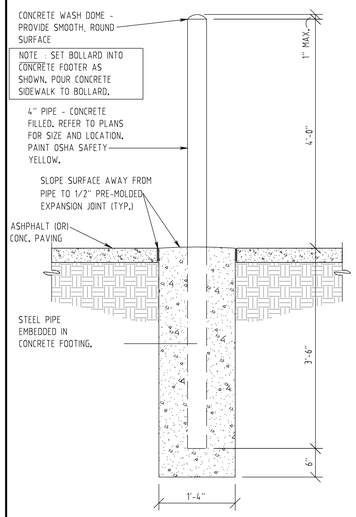
REVISIONS

Project Number	23-019
Date:	07-18-2023
Drawn by:	CS
Checked by:	PS

CONSTRUCTION DOCUMENTS

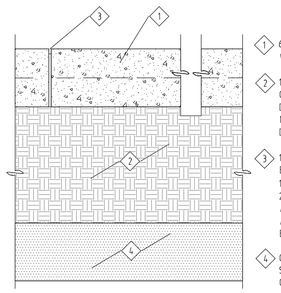
SITE UTILITY PLAN

C-4.0



TYPICAL BOLLARD DETAIL

NOT TO SCALE



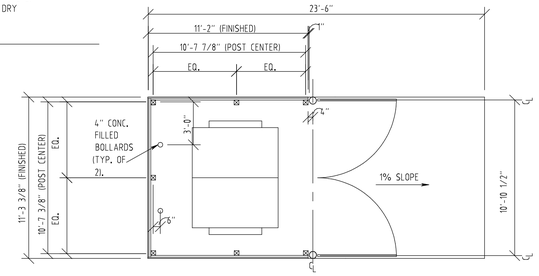
1. 6" - 4000 PSI CONCRETE W/6x6 W/2.1x2.1 WWF.
2. 12" STABILIZED BASE COMPACTED TO A MINIMUM DENSITY OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557)
3. 1/4" PREMOLDED ASPHALT EXPANSION JOINT STRIP. SET 1/2" BELOW PAVEMENT TOP @ 20'-0" O.C. MAXIMUM. PROVIDE A GEOTECHNICAL FABRIC SUCH AS MIRAFI 140N, OR EQUAL, BELOW ALL CONTROL JOINTS.
4. CLEAN FILL OR EXISTING SUBBASE MATERIAL FREE OF ORGANIC MATTER COMPACTED TO A MINIMUM DENSITY OF 95% OF THE MODIFIED PROCTOR DRY DENSITY.

1. GENERAL CONCRETE NOTES:
RIGID PAVEMENT CONSISTS OF CONSTRUCTING A SPECIFIED PORTLAND CEMENT CONCRETE PAVING ON A PREPARED SUBGRADE. THE UTILITIES AND OTHER ITEMS IN AND BENEATH THE STREET MUST BE PROPERLY COORDINATED WITH THE CONSTRUCTION OF RIGID PAVEMENT TO AVOID CONFLICTS. THE WORK TO BE DONE SHALL INCLUDE THE FURNISHING OF ALL SUPERVISION, LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY FOR THE PROPOSED RIGID PAVEMENT CONSTRUCTION IN ACCORDANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS.

2. CONCRETE STRENGTH REQUIRED:
ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 (PCI) PSI AT 28 DAYS. CONFORMANCE TO STRENGTH REQUIREMENTS SHALL BE DETERMINED BY ACI STANDARD 318, LATEST EDITION, SECTIONS 4.8.2.3 AND 4.8.3.

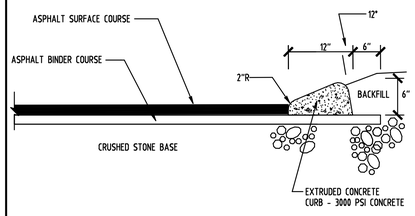
CONCRETE PAVEMENT SECTION

NOT TO SCALE



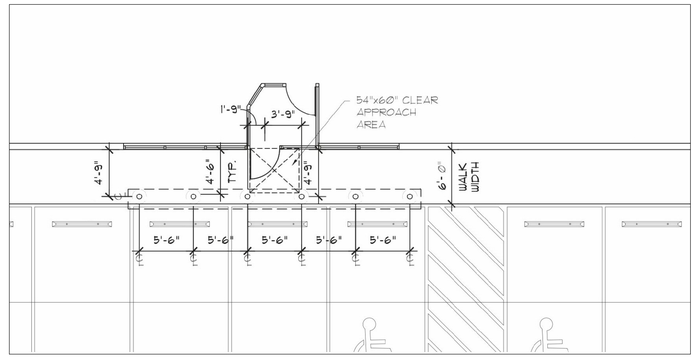
TYPICAL DUMPSTER PAD LAYOUT

NOT TO SCALE



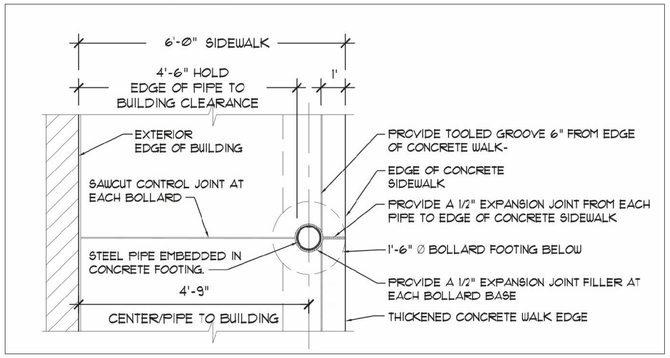
EXTRUDED CONCRETE CURB

NOT TO SCALE

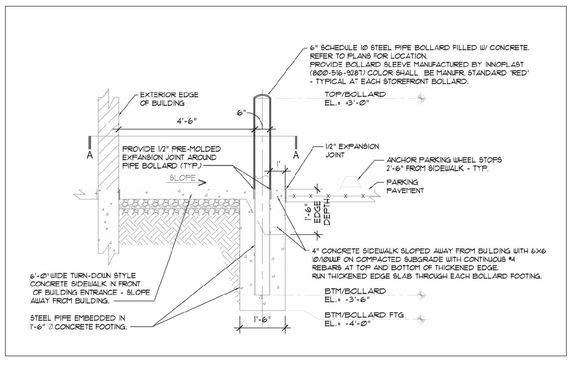


ENLARGED PLAN

NOT TO SCALE

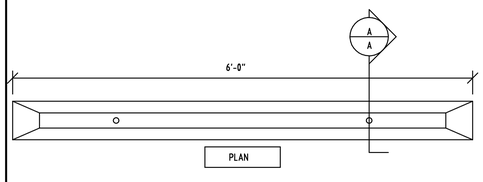


PLAN DETAIL A-A

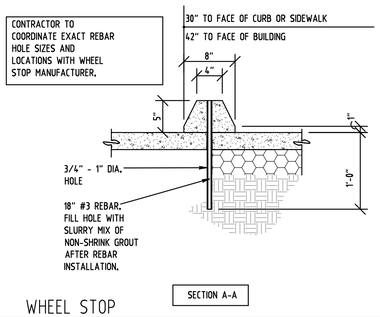


STOREFRONT BOLLARD DETAIL/PLAN

NOT TO SCALE



PLAN

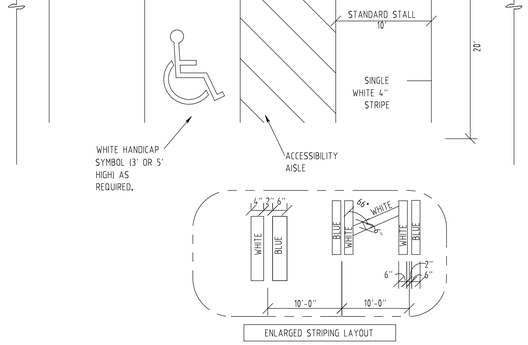


SECTION A-A

WHEEL STOP

NOT TO SCALE

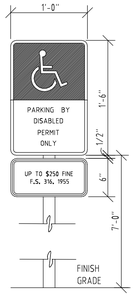
SITE ACCESSIBILITY DETAIL NOTES:
1. REFER TO SITE PLAN FOR EXACT LOCATION OF HANDICAP PARKING.
2. ALL WALKWAYS & HANDICAP PARKING SIGNAGE, ETC. SHALL MEET APPROVED ADA STANDARDS AND LOCAL ACCESSIBILITY CODE.
3. ONE OUT OF EVERY EIGHT ACCESSIBLE PARKING SPACES, BUT NOT LESS THAN ONE, IS REQUIRED TO BE VAN ACCESSIBLE.
4. FINISHED GRADES OF PAVEMENT IN HC PARKING AND ACCESSIBILITY AISLE SHALL NOT EXCEED 1:50 SLOPE IN ANY DIRECTION.



ENLARGED STRIPING LAYOUT

HANDICAP STRIPING PLAN

NOT TO SCALE

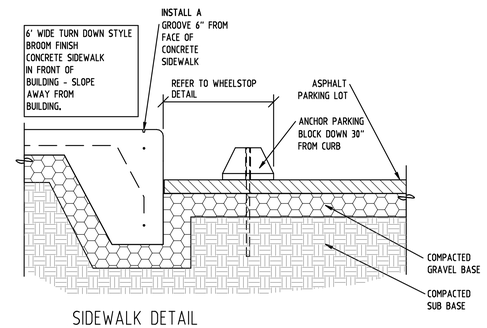


NOTES.
1. ALL LETTERS ARE 1" SERIES 'C' PER 2003 MUTCD.
2. TOP PORTION OF SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND AND BORDER.
3. BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
4. FINE NOTIFICATION SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.

   CONTRACTOR SHALL VERIFY FINE AMOUNT AND ORDINANCE NUMBER.
5. ONE (1) SIGN REQUIRED FOR EACH ACCESSIBLE PARKING SPACE.
6. INSTALLED HEIGHT OF SIGN SHALL BE IN ACCORDANCE WITH SECTION 24-23 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. (MUTCD)
7. SIGN MAY BE MOUNTED ON BUILDING/WALL, AT PROPER HEIGHT, IF ALIGNED WITHIN 12" OF CENTER OF PARKING SPACE.

HANDICAP SIGNAGE

NOT TO SCALE

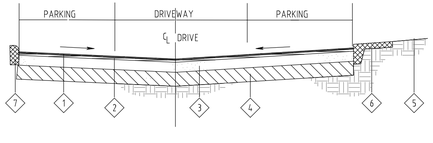


SIDEWALK DETAIL

NOT TO SCALE

KEY TO TYPICAL PAVEMENT SECTIONS

1. 1 1/2" ASPHALT SURFACE, GRADING "E"
2. 2" BM-2 MIX (3" IN HEAVY DUTY AREAS)
3. 6" PUG MIX, TYPE "A" BASE, GRADING "D" (8" IN HEAVY DUTY AREAS)
4. STABILIZED SUBGRADE COMPACTED TO 98% STANDARD PROCTOR TEST
5. GRASS AREA
6. SIDEWALK
7. 6" EXTRUDED CURB



TYPICAL PAVEMENT SECTION

NOT TO SCALE

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REV	DATE	DESCRIPTION

REVISIONS

Project Number	23-019
Date:	07-12-2023
Drawn by:	CS
Checked by:	PS

CONSTRUCTION DOCUMENTS

SITE DETAILS

C-5.0

STRUCTURAL NOTES

DIVISION 1 - GENERAL REQUIREMENTS

SUMMARY OF WORK

1. THE PROJECT CONSISTS OF A ONE STORY, REINFORCED MASONRY RETAIL BUILDING DESCRIBED IN THE DRAWINGS AND THESE SPECIFICATIONS.
2. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK. AN INDEX OF DRAWINGS IS PROVIDED ON THE COVER SHEET OF THE DRAWING PACKAGE.
3. THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS).

BUILDING CODES

1. CODE: 2018 INTERNATIONAL BUILDING CODE

GROUND SNOW LOAD = 10 PSF
WIND SPEED = 115 MPH
WIND EXPOSURE B FOR MWFRS

SEISMIC PARAMETERS:
Ss = 0.316
S1 = 0.117
SITE CLASS D
SDS = 0.326
SD1 = 0.182
SEISMIC USE GROUP I
SEISMIC DESIGN CATEGORY C
SEISMIC LOADS BASED ON LOAD-BEARING INTERMEDIATE REINFORCED MASONRY SHEAR WALLS.
R = 3.5
Cd = 2.25

CUTTING AND PATCHING

1. SUBMIT WRITTEN REQUEST TO STRUCTURAL ENGINEER IN ADVANCE OF CUTTING OR ALTERATION WHICH AFFECTS:
   A. STRUCTURAL INTEGRITY OF ANY ELEMENT OF THE PROJECT.
   B. INTEGRITY OF WEATHER-EXPOSED OR MOISTURE-RESISTANT ELEMENT.
   C. VISUAL QUALITIES OF SIGHT EXPOSED ELEMENT.
2. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.

SUBMITTALS

1. GENERAL SUBMITTAL REQUIREMENTS: SUBMIT FOR APPROVAL THE FOLLOWING ITEMS:
   A. DIVISION 3 - CONCRETE:
      1. CONCRETE MIX DESIGN, ADMIXTURES, AND REINFORCING STEEL SHOP DRAWINGS.
   B. DIVISION 5 - METALS:
      1. STRUCTURAL STEEL SHOP DRAWINGS AND WELDING CERTIFICATES.
      2. STEEL JOIST SHOP DRAWINGS AND MANUFACTURER'S CERTIFICATE.
      3. STEEL DECK SHOP DRAWINGS, PRODUCT DATA, AND MANUFACTURER'S CERTIFICATE.
   C. DIVISION 6 - WOODS AND PLASTICS:
      1. WOOD TRUSS SHOP AND PLACEMENT DRAWINGS AND MANUFACTURER'S CERTIFICATE.
2. SHOP DRAWINGS:
   A. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS SHALL BE CLOUDED BY MANUFACTURER OR FABRICATOR. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY.
   B. THE SHOP DRAWINGS DO NOT REPLACE THE ORIGINAL CONTRACT DRAWINGS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT ARE NOT TO BE CONSIDERED CHANGES TO ORIGINAL CONTRACT DRAWINGS. IT IS THE CONTRACTORS RESPONSIBILITY TO MAKE SURE ITEMS ARE CONSTRUCTED TO ORIGINAL DRAWINGS.
   C. REPRODUCED COPIES OF STRUCTURAL DRAWINGS ARE NOT ACCEPTABLE AS SHOP DRAWINGS.
   D. SUBMIT 4 COPIES FOR EACH SHOP DRAWING.
   E. AFTER REVIEW, REPRODUCE AND DISTRIBUTE FOR RECORD DOCUMENTS.
3. PRODUCT DATA:
   A. SUBMIT THE NUMBER OF COPIES REQUIRED BY THE SUBCONTRACTOR, PLUS TWO COPIES TO BE RETAINED BY THE CONSTRUCTION MANAGER AND ENGINEER.
   B. MARK EACH COPY TO IDENTIFY APPLICABLE PRODUCTS, MODELS, OPTIONS AND OTHER DATA.
   C. AFTER REVIEW, REPRODUCE AND DISTRIBUTE FOR RECORD DOCUMENTS.

QUALITY CONTROL

1. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
2. OPENINGS 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.
3. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS PROVIDED.
4. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS.
5. TESTING LABORATORY SERVICES:
A. UNLESS OTHERWISE SPECIFIED IN THE INDIVIDUAL DIVISION, OWNER SHALL SELECT, APPOINT AND PAY AN INDEPENDENT FIRM TO PERFORM INSPECTION AND TESTING.
B. SUBCONTRACTOR SHALL COOPERATE WITH THE TESTING FIRM AND FURNISH ASSISTANCE AS REQUESTED.
C. PROVIDE TESTING OF THE FOLLOWING ITEMS:
   1. CONCRETE: SLUMP AND COMPRESSIVE STRENGTH.
   2. STRUCTURAL STEEL: SLIP-CRITICAL BOLTS AND FIELD WELDED CONNECTIONS.
   3. MORTAR AND GROUT: COMPRESSIVE STRENGTH

SUBSTITUTIONS

1. THE CONTRACTOR SHALL HAVE THE RIGHT TO SUBSTITUTE, UPON APPROVAL OF THE THE AAP CONSTRUCTION MANAGER OR ENGINEER, ITEMS OR PRODUCTS SPECIFIED BY MANUFACTURER'S NAME. COST SAVINGS SHALL BE SHARED WITH THE OWNER. SUBSTITUTIONS WILL ALSO BE CONSIDERED WHEN A PRODUCT BECOMES UNAVAILABLE.

RECORD OF DOCUMENTS

1. MAINTAIN ON SITE, ONE SET OF THE FOLLOWING RECORDS± RECORD ACTUAL REVISIONS TO THE WORK:
   A. CONSTRUCTION DRAWINGS
   B. ADDENDA
   C. CHANGE ORDERS AND CONTRACT MODIFICATIONS
   D. REVIEWED SHOP DRAWINGS AND PRODUCT DATA

DIVISION 2 - SITEWORK

GEOTECHNICAL REPORT

1. THE SOIL CAPACITY ON THIS PROJECT WAS ASSUMED TO BE 2,000 POUNDS PER SQUARE FOOT.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE STRUCTURAL ENGINEER OF ANY UNSUITABLE NONHOMOGENEOUS OR SOFT SOIL CONDITIONS.
3. SPREAD FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUSTAINING A NET ALLOWABLE BEARING PRESSURE OF 2.0 KSF FOR INDIVIDUAL COLUMN FOOTING AND 2.0 KSF FOR CONTINUOUS WALL FOOTING UNDER FULL SERVICE LIVE AND DEAD LOAD.
4. FOOTINGS SHALL BE POURED INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT.
5. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 1'-4" BELOW FINAL GRADE FOR FROST PROTECTION.
6. FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACKFILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE.
7. WHERE FOUNDATION WALLS ARE TO HAVE EARTH PLACED ON EACH SIDE, PLACE FILL SIMULTANEOUSLY SO AS TO MAINTAIN A COMMON ELEVATION ON EACH SIDE OF THE WALL.

DIVISION 3 - CONCRETE

NO SLAG OR FLY ASH MIX WILL BE ACCEPTED

SUBMITTALS FOR CONCRETE: IN ACCORDANCE WITH DIVISION 1:

1. PRODUCT DATA: PROVIDE DATA ON JOINT DEVICES, ATTACHMENT ACCESSORIES AND ADMIXTURES.
2. SHOP DRAWINGS:
   A. REINFORCEMENT: DETAIL IN ACCORDANCE WITH ACI 315. INDICATE REINFORCING BAR SIZES, SPACINGS, LOCATIONS, QUANTITIES OF REINFORCEMENT AND WELDED WIRE FABRIC, BENDING AND CUTTING SCHEDULES, SPLICING, SUPPORTING AND SPACING DEVICES.
3. PROPOSED MIX DESIGN:
   A. CONCRETE MIX DESIGNS: SUBMIT FOR REVIEW BY THE PROJECT ENGINEER WELL IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL INCLUDE ALL STRENGTH DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS FOR EITHER THE TRIAL BATCH OR FIELD EXPERIENCE METHOD.

FORMWORK

1. FORM CONCRETE WITH STANDARD MODULAR FORMS, OR NO. 2 OR BETTER DIMENSION LUMBER AND DOUGLAS FIR PLYWOOD WITH ONE SOUND, SOLID SIDE, IN ACCORDANCE WITH ACI 301.
2. VERIFY COMPACTION OF SELECT FILL PROVIDED BY DIVISION 2. HAND TRIM SIDES AND BOTTOM OF EARTH FORMS. REMOVE LOOSE SOIL AND GRANULAR FILL PRIOR TO PLACING CONCRETE.
3. PROVIDE TAPED CLEAR POLYETHYLENE FILM VAPOR BARRIER OVER COMPACTED GRANULAR FILL UNDER INTERIOR SLABS ON GRADE.

ACCESSORIES AND ANCHORS

1. ACCURATELY INSTALL ANCHORS SUPPLIED BY DIVISION 5 USING TEMPLATES. TOLERANCE: 1/8" VARIATION ALLOWED FROM ACTUAL POSITION IN ANY DIRECTION.
2. BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC., BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 3" OF CONCRETE.
3. EXPANSION ANCHORS SHALL BE WEDGE-TYPE ANCHORS.

CONCRETE REINFORCEMENT

1. BAR REINFORCEMENT: CONFORM TO ASTM A615, GR60, UNLESS NOTED OTHERWISE.
2. FLATWORK REINFORCEMENT: WELDED WIRE FABRIC CONFORMING TO ASTM A185. USE FLAT SHEETS, NOT ROLLS.
3. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED, IN ACCORDANCE WITH ACI DETAILING MANUAL (LATEST EDITION).
4. ALL REINFORCING, INCLUDING SLAB REINFORCEMENT SHALL BE SUPPORTED IN FORMS AND SPACED WITH NECESSARY ACCESSORIES IN ACCORDANCE WITH CRSI "MANUAL OF STANDARD PRACTICE" (LATEST EDITION). REINFORCING BARS SHALL BE WIRED TOGETHER USING 16 GAUGE (MIN) ANNEALED STEEL TIE WIRE AT EVERY THIRD CROSSING, OR A MAXIMUM SPACING OF 4'-0" IN EACH DIRECTION, UNLESS OTHERWISE SHOWN.
5. MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:

   UNFORMED SURFACE IN CONTACT WITH THE GROUND..........3 IN.

   FORMED SURFACES EXPOSED TO EARTH OR WEATHER.
   #6 BARS AND LARGER..........2 IN.
   #5 BARS AND SMALLER..........1-1/2 IN.

   FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:

   SLABS #11 BARS AND SMALLER..........3/4 IN.

6. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE. WHERE CLASSES ARE NOT SPCECIFIED ON DRAWINGS, USE CLASS "B" SPLICES.

MINIMUM LAP FOR SPLICES IN CONCRETE

BAR SIZE	TENSION SPLICES				COMPRESSION SPLICES
	TOP BARS		OTHER BARS		
	A	B	A	B	
#3	1'-10"	2'-4"	1'-5"	1'-10"	1'-0"
#4	2'-5"	3'-1"	1'-10"	2'-5"	1'-5"
#5	3'-0"	3'-11"	2'-4"	3'-0"	1'-7"
#6	3'-7"	4'-8"	2'-9"	3'-7"	1'-11"

COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS
LAP WELDED WIRE FABRIC ONE SPACING OF CROSS WIRES PLUS 2".

7. DO NOT DAMAGE OR DISPLACE GRANULAR FILL OR VAPOR BARRIER.

CAST IN PLACE CONCRETE:

1. MATERIALS:
   A. CEMENT: TYPE 1 PORTLAND CEMENT, CONFORMING TO ASTM C150.
   B. FINE AND COARSE AGGREGATE: COARSE AGGREGATE SIZE SHALL BE NO. 57 OR LARGER. AGGREGATE SHALL CONFORM TO ASTM C33.
   C. ADMIXTURES: AIR ENTRAINMENT ADMIXTURE CONFORMING TO ASTM C260. CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED. AIR CONTENT SHALL BE BETWEEN 4 AND 8 PERCENT. USE NO OTHER ADMIXTURES WITHOUT WRITTEN PERMISSION FROM ENGINEER OF RECORD. CHOPPED FIBER ADMIXTURE WILL NOT BE ALLOWED.
   D. CONCRETE DENSIFIER AND CHEMICAL HARDENER: ASHFORD FORMULA AS MANUFACTURED BY CURECRETE DISTRIBUTION, INC., OR WR MEADOWS.
   E. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 3500 PSI.
   F. THE MINIMUM PORTLAND CEMENT CONTENT (ASTM C150) OF ALL CONCRETE SHALL BE 517 LBS PER CUBIC YARD.
2. CONCRETE PLACEMENT:
   A. MAXIMUM PANEL SIZE OF SLABS-ON-GRADE SHALL NOT EXCEED 144 SQUARE FEET. THE LONG SIDE OF RECTANGULAR PANELS SHALL NOT EXCEED TWICE THE LENGTH OF THE SHORT SIDE OR 12'-0" WHICHEVER IS SMALLER.
   B. REPAIR VAPOR BARRIER DAMAGED DURING PLACEMENT OF CONCRETE REINFORCING OR GRANULAR BASE.
   C. PLACE CONCRETE IN ACCORDANCE WITH ACI 304. POUR PIERS, FOOTINGS, WALLS, AND SLABS MONOLITHICALLY. CONSOLIDATE PLACED CONCRETE USING MECHANICAL VIBRATING EQUIPMENT.
   D. COLD WEATHER PLACING: COMPLY WITH ACI 306.
   E. HOT WEATHER PLACING: COMPLY WITH ACI 305.
3. CURING:
   A. CURE INTERIOR SLABS USING CONCRETE DENSIFIER AND CHEMICAL HARDENER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
   B. CURE VERTICALLY FORMED SURFACES BY USE OF MOISTURE-RETAINING COVER AND BY MOIST CURING METHODS. MAINTAIN CURING FOR A MINIMUM OF 72 HOURS AFTER PLACEMENT OF CONCRETE.
   C. FIELD TESTING: THREE CONCRETE CYLINDERS SHALL BE TAKEN FOR EVERY 50 OR LESS CUBIC YARDS OF CONCRETE PLACED EACH DAY. ONE SLUMP TEST SHALL BE TAKEN FOR EACH SET OF CYLINDERS. CYLINDERS SHALL BE CURED ON THE JOB SITE. ONE CYLINDER SHALL BE TESTED AT 7 DAYS, ONE AT 28 DAYS, WITH ONE FOR SPARE. SUBCONTRACTOR SHALL NOTIFY TESTING LABORATORY 24 HOURS PRIOR TO EXPECTED TIME FOR OPERATIONS REQUIRING TESTING. SUBCONTRACTOR SHALL COOPERATE WITH TESTING LABORATORY AND PROVIDE REQUIRED ASSISTANCE.
   D. FINISHES: INTERIOR SLABS: HARD STEEL MACHINE TROWELED SMOOTH FINISH UNLESS NOTED OTHERWISE. THE SURFACE SHALL BE TROWELED EARLIER RATHER THAN LATER IN ORDER TO MAINTAIN A HIGHER WATER-CEMENT RATIO AT THE SURFACE, THEREBY PROVIDING A SLAB WHICH IS LIGHTER IN COLOR. TAKE CARE NOT TO OVERWORK. REFER TO ARCHITECTURAL DRAWINGS FOR AREAS OF CERAMIC OR QUARRY TILE THAT REQUIRE WOOD TROWELED OR BROOM FINISH. G.C. TO CONSULT W/ THE READY MIX CHEMIST JUST PRIOR TO THE POUR IF ADDITIONAL ADDITIVES ARE NEEDED FOR WORKABILITY OF THE CONCRETE, OR IF THE SET UP TIME NEEDS TO BE PROLONGED TO ACHIEVE LEVEL 2 FINISH.
   E. SAW CUT CONTROL JOINTS IN SLABS ON GRADE WITHIN 12 HOURS AFTER FINISHING. CUT SLABS USING 3/16" THICK BLADE, CUTTING 1/3 OF DEPTH OF SLAB THICKNESS.
4. PATCHING:
   A. PATCH IMPERFECTIONS AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH ACI 301.
5. FLATNESS:
   A. SLAB FLATNESS SHALL BE DETERMINED USING ASTM E1155. ACCEPTABLE RANGE OF SLAB TO BE FROM FF 38 / FL 25 TO FF48 / FL 35. SLABS NOT MEETING MINIMUM FLATNESS & LEVELNESS REQUIREMENTS WILL BE SUBJECT TO REPLACEMENT.

DIVISION 4 - MASONRY

MORTAR AND GROUT

1. MORTAR MATERIALS:
   A. MORTAR FOR MASONRY: ASTM C270, PORTLAND CEMENT/ HYDRATED LIME.
   B. WATER: DRINKABLE.
   C. ADMIXTURES NOT ALLOWED UNLESS APPROVED BY ENGINEER.
2. MORTAR MIXES:
   A. MORTAR FOR REINFORCED MASONRY: ASTM C270, TYPE S.
   B. MORTAR FOR MASONRY VENEER AND NON-BEARING WALLS AND PARTITIONS: ASTM C270, TYPE N.
3. MORTAR MIXING:
   A. THOROUGHLY MIX MORTAR INGREDIENTS, OF CONSISTENT MOISTURE LEVELS, IN QUANTITIES NEEDED FOR IMMEDIATE USE IN ACCORDANCE WITH ASTM C270. MAINTAIN SAND UNIFORMLY DAMP IMMEDIATELY BEFORE MIXING.
   B. DO NOT USE ANTI-FREEZE COMPOUNDS TO LOWER THE FREEZING POINT OF THE MORTAR.
   C. IF WATER IS LOST BY EVAPORATION, RETEMPER ONLY WITHIN TWO HOURS OF MIXING. USE MORTAR WITHIN TWO HOURS OF MIXING.
4. GROUT: ASTM C476: 8-10 INCH SLUMP: PREMIXED TYPE IN ACCORDANCE WITH ASTM C94 OR SITE MIXED IN ACCORDANCE WITH ASTM C476 FOR COARSE GROUT. THOROUGHLY MIX GROUT, OF CONSISTENT MOISTURE LEVELS, IN QUANTITIES NEEDED FOR IMMEDIATE USE IN ACCORDANCE WITH ASTM C270. MAINTAIN SAND UNIFORMLY DAMP IMMEDIATELY BEFORE MIXING. DO NOT USE ANTI-FREEZE COMPOUNDS TO LOWER THE FREEZING POINT OF THE MORTAR.

CONCRETE UNIT MASONRY

1. MATERIALS:
   A. CONCRETE MASONRY UNITS: FULLY CURED NORMAL WEIGHT BLOCK CONFORMING TO TO ASTM C90, GRADE N, TYPE 1 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1900 PSI.
   B. REINFORCEMENT AND TIES:
      1. BARS ARE TO CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
      2. JOINT REINFORCEMENT: LADDER TYPE, GALVANIZED, WITH A SINGLE PAIR OF 9 GAUGE SIDE RODS AND 9 GAUGE CROSS RODS FABRICATED FROM COLD-DRAWN STEEL WIRE COMPLYING WITH ASTM A82. JOINT REINFORCING SHALL BE SPACED AT 16" O.C. VERTICALLY IN ALL MASONRY WALLS.
2. INSTALLATION:
   A. GENERAL:
      1. COLD WEATHER REQUIREMENTS: IMIAC RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR COLD WEATHER MASONRY CONSTRUCTION, LATEST EDITION.
      2. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF VERTICAL CONTROL JOINTS. HORIZONTAL BOND BEAM AND LINTEL REINFORCING SHALL BE CONTINUOUS ACROSS VERTICAL CONTROL JOINTS. JOINT REINFORCING SHALL BE STOPPED EITHER SIDE OF VERTICAL CONTROL JOINTS.
      3. PROVIDE VERTICAL REINFORCEMENT EACH SIDE OF CONTROL JOINTS AND AT LOCATIONS SHOWN ON FOUNDATION PLAN.
      4. PROVIDE HORIZONTAL BOND BEAM WITH (1)-#5 BAR @ 10'-0" O.C. MAXIMUM SPACING UNLESS NOTED OTHERWISE.
      5. ALL BOLTS, ANCHORS, ETC., INSERTED IN THE WALLS, SHALL BE GROUTED SOLID INTO POSITION.
      6. ALL MORTAR JOINTS ARE TO BE STRUCK AND BRUSHED.
   B. ENGINEERED MASONRY:
      1. MINIMUM COMPRESSIVE STRENGTH, f'm, OF 1500 PSI.
      2. ALL REINFORCED CELLS, ALL CELLS BELOW GRADE AND ALL CELLS BELOW FINISH FLOOR SHALL BE GROUTED SOLID.
      3. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL BLOCK CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN 6 VERTICAL. DOWELS MAY BE GROUTED INTO A CELL IN VERTICAL ALIGNMENT, EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCING.
      4. REINFORCING STEEL SHALL BE SECURED IN PLACE BEFORE GROUTING STARTS.
      5. SPLICED REINFORCING SHALL BE LAPPED 48 BAR DIAMETERS OR 24 INCHES, WHICHEVER IS GREATER.
      6. VERTICAL BARS SHALL BE HELD IN POSITION AT 48" MAX WITH VERTICAL BAR POSITIONERS AT TOP OF BOTTOM COURSE AND BOTTOM OF TOP COURSE AND AT INTERVALS NOT EXCEEDING 200 DIAMETERS OF THE REINFORCING, NOR 10 FEET. BARS SHALL BE IN PLACE PRIOR TO GROUTING.
      7. VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4" FROM THE MASONRY AND NOT LESS THAN ONE BAR DIAMETER BETWEEN BARS.
      8. VERTICAL CELLS THAT WILL BE GROUTED SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 3"x4".
      9. GROUTING SHALL BE STOPPED 1 1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR JOINT.
      10. GROUTING OF MASONRY BEAMS OVER OPENINGS SHALL BE DONE IN ONE
      11. GROUTING TECHNIQUE SHALL CONFORM TO MASONRY INSTITUTE STANDARDS FOR LOW METHODS ONLY. HIGH LIFT GROUTING METHOD NOT PERMITTED.

         LOW-LIFT GROUTING REQUIREMENTS
         LIFTS ARE LIMITED TO A MAXIMUM OF 5 FEET (1.52 M)
         CLEANOUT OPENINGS ARE REQUIRED AT THE BASE OF THE WALL FOR ANY VERTICAL CORE INCLUDING REINFORCEMENT.
         REFER TO DETAILS ON S2 SHEET.

DIVISION 5 - METALS

STRUCTURAL STEEL:

1. SUBMITTALS: IN ACCORDANCE WITH DIVISION 1.
   A. SHOP DRAWINGS:
      1. INDICATE PROFILES, SIZES, SPACING, AND LOCATIONS OF STRUCTURAL MEMBERS.
      2. INDICATE BOLTED CONNECTIONS WITH HOLE SIZE AND NUMBER, SIZE AND GRADE OF FASTENERS.
      3. INDICATE WELDED CONNECTIONS WITH AWS WELD SYMBOLS. INDICATE WELD SIZE AND LENGTHS.
      4. ANCHOR ROD PLACEMENT PLAN, AND OTHER EMBEDDED ITEMS.
2. MATERIALS:
   A. ALL WF: ASTM A992 (F_y= 50)
   B. ALL CHANNELS, ANGLES, PLATES ETC. U.N.O.: ASTM A36
   C. STRUCTURAL HSS (SQUARE/RECTANGULAR): ASTM A500 GRADE B (F_y=46)
   D. STRUCTURAL HSS (ROUND): ASTM A500 GRADE B (F_y=42)
   E. PIPE: ASTM A53 (F_y=35)
   F. ANCHOR ROD: ASTM F1554, GRADE 36
   G. ANCHOR ROD NUTS SHALL BE HEAVY HEX NUTS, ASTM A563, GRADE A
   H. BOLTS: ASTM A325
   J. WELDING ELECTRODES: E70XX
   K. GROUT: ASTM C1107, NON-SHRINK TYPE, PRE-MIXED CONSISTING OF NON-METALLIC AGGREGATE. MINIMUM COMPRESSIVE STRENGTH OF 7000 PSI AT 28 DAYS.
   L. GALVANIZING:
      1. HOT DIP GALVANIZING TO COMPLY WITH ASTM A 123/A 123M FOR STEEL AND IRON PRODUCTS AND ASTM A 153/A 153M FOR STEEL AND IRON HARDWARE.
      2. REPAIR GALVANIZING TO COMPLY WITH ASTM A780.
   M. PRIMER:
      1. NON-GALVANIZED STEEL: SHOP STANDARD
      2. GALVANIZED STEEL: CLEAN BY SWEEP BLAST PER SSPC-SP7 OR WASH WITH "OAKITE 747" CLEANER. COAT WITH GREY, TNEMEC 66, EPOXY PRIMER.
      3. DO NOT PRIME SURFACES THAT WILL BE FIELD WELDED.
      4. TOUCH UP SHOP COAT AFTER INSTALLATION.
3. FABRICATION:
   A. FIELD VERIFY MEASUREMENTS AT SITE FOR WORK FABRICATED TO FIT EXISTING CONDITIONS (PRIOR TO FABRICATION).
   B. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE LATEST EDITION, EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.
   C. BEAM CONNECTIONS TO HAVE CAPACITY EQUAL TO OR GREATER THAN 1/2 THE TOTAL UNIFORM LOAD CAPACITY OF THE BEAM TABULATED IN PART 2 OF THE AISC MANUAL BUT NOT LESS THAN 10 KIPS. IN ADDITION, UNLESS OTHERWISE DETAILED OR PERMITTED, WEB CONNECTIONS SHALL BE NOT LESS THAN 1/2 THE BEAM DEPTH IN LENGTH.
   D. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE FABRICATOR OF RESPONSIBILITY FOR THE ADEQUACY OF ALL CONNECTIONS.
   E. FABRICATE BEAMS WITH MILL CAMBER UP.
   F. HOLES IN COLUMN BASE PLATES LESS THAN 1 1/4" THICK WITH 3/4"? ANCHOR RODS SHALL BE 1 1/16"?. WASHERS SHALL BE USS STD WASHERS ASTM F844
   G. FIELD WELD COMPONENTS INDICATED ON SHOP DRAWINGS. FIELD CONNECT MEMBERS WITH HIGH STRENGTH THREADED FASTENERS TO "SNUG TIGHT" CONDITION PER RCSC.
4. INSTALLATION:
   A. ERECT STRUCTURAL STEEL IN ACCORDANCE WITH AISC SPECIFICATIONS AND WITHIN TOLERANCES OF THE AISC CODE OF STANDARD PRACTICE, LATEST EDITION.
   B. THE STEEL STRUCTURE IS A NON-SELF-SUPPORTING STEEL FRAME AND IS DEPENDENT UPON DIAPHRAGM ACTION OF THE ROOF AND MASONRY WALLS FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES. PROVIDE ALL TEMPORARY SUPPORTS REQUIRED FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES UNTIL THESE ELEMENTS ARE COMPLETE AND ARE CAPABLE OF PROVIDING THIS SUPPORT.
   C. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
   D. WELDING SHALL COMPLY WITH AWS D1.1. WELDING SHALL BE DONE BY A CERTIFIED WELDER IN THE TYPE OF WELDING BEING PERFORMED. REMOVE SURFACE RUST, PAINT AND OTHER COATINGS PRIOR TO WELDING. TOUCH UP PAINT WITH PRIMER AFTER WELDING IS COMPLETE.
   E. GROUT SOLID UNDER BASEPLATES IMMEDIATELY FOLLOWING ERECTION OF STRUCTURAL STEEL, AND PRIOR TO PLACING DEAD LOADS SUCH AS ROOFING AND CONCRETE FLOORING.
   F. INSPECTIONS: PERFORM INSPECTIONS UNDER PROVISIONS OF DIVISION 1 ON SLIP CRITICAL BOLTED CONNECTIONS AND FIELD WELDS. VISUALLY OBSERVE FILLET AND PARTIAL PENETRATION WELDS. USE RADIOGRAPHIC OR ULTRASONIC INSPECTION ON FULL PENETRATION WELDS.

STEEL JOISTS:

1. SUBMITTALS: IN ACCORDANCE WITH DIVISION 1.
   A. SHOP DRAWINGS:
      1. STANDARD DESIGNATIONS, CONFIGURATION, SIZES, SPACING, LOCATIONS OF JOISTS AND CHORD EXTENSIONS.
      2. JOIST BRIDGING, CONNECTIONS AND ATTACHMENTS.
      3. CAMBERS AND LOADS.
   B. CERTIFICATES: CERTIFICATE OF MANUFACTURER'S MEMBERSHIP IN SJI MANUFACTURER'S CERTIFICATE THAT JOISTS COMPLY WITH SPECIFIED REQUIREMENTS.
2. QUALITY ASSURANCE:
   A. STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS, (LATEST EDITION)" OF THE STEEL JOIST INSTITUTE (SJI). JOISTS TO BE STORED OFF THE GROUND AND COVERED.
   B. STEEL JOISTS SHALL BE DESIGNED BY THE MANUFACTURER. THE MANUFACTURER'S ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN, ADEQUACY AND SAFETY OF ALL STEEL JOISTS. ALL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE MANUFACTURER'S ENGINEER WITH THE ENGINEER'S SEAL FOR THE STATE WHERE THE STRUCTURE IS LOCATED.
   C. UNLESS OTHERWISE NOTED, STEEL JOISTS SHALL BE DESIGNED AS SIMPLY SUPPORTED, UNIFORMLY LOADED TRUSSES WITH THE TOP CHORD BRACED AGAINST LATERAL BUCKLING. THE UNIFORM DESIGN LOAD SHALL BE THE TOTAL SAFE UNIFORMLY DISTRIBUTED LOAD AS SHOWN IN THE SJI STANDARD LOAD TABLE.
   D. WHEN NONUNIFORM OR CONCENTRATED LOADS ARE SHOWN ON THE DRAWINGS, THE MANUFACTURER SHALL DESIGN THE JOISTS IN ACCORDANCE WITH THE "STANDARD SPECIFICATION FOR OPEN WEB STEEL JOISTS, (LATEST EDITION)".
3. MATERIALS:
   A. OPEN WEB JOIST MEMBERS: REFER TO DRAWINGS FOR SJI TYPE.
   B. BOLTS, NUTS AND WASHERS: ASTM A325, UNCOATED.
   C. PRIMER: SHOP STANDARD CONFORMING TO SSPC15, TYPE 1. COLOR TO MATCH STRUCTURAL STEEL SUB-NOTE M.2
   D. STRUCTURAL STEEL FOR SUPPLEMENTARY FRAMING AND JOIST EXTENSIONS: ASTM A36.
   E. WELDING MATERIALS: AWS D1.1± TYPE REQUIRED FOR MATERIALS BEING WELDED.
   F. BRIDGING: STEEL JOIST BRIDGING SHALL BE PROVIDED IN ACCORDANCE WITH THE SJI SPECIFICATION.
4. FABRICATION:
   A. PROVIDE CHORD EXTENSIONS AS INDICATED.
   B. SHOP PRIME JOISTS. DO NOT PRIME SURFACES THAT WILL BE FIELD WELDED.
   C. HOLES IN STEEL JOIST CHORDS WILL NOT BE PERMITTED, EXCEPT FOR BOLTED CONNECTIONS AT THE BEARING END OF THE STEEL JOIST.
5. ERECTION:
   A. ALL BRIDGING AND BRIDGING ANCHORS SHALL BE PLACED AND STEEL JOIST ENDS FIXED PRIOR TO THE APPLICATION OF ANY LOADS. BRIDGING THAT TERMINATES AT, OR IS INTERRUPTED BY, STRUCTURAL STEEL BEAMS, MASONRY WALLS OR CONCRETE WALLS SHALL BE ATTACHED THERETO. COORDINATE BRIDGING LOCATIONS TO AVOID INTERFERENCE WITH ALL MECHANICAL, ELECTRICAL AND FIRE PROTECTION EQUIPMENT.
   B. MINIMUM BEARING REQUIREMENTS FOR K-SERIES JOISTS, UNLESS NOTED OTHERWISE 2 1/2" ON STRUCTURAL STEEL 4" ON STEEL BEARING PLATES OVER MASONRY OR CONCRETE.
   C. UNLESS NOTED OTHERWISE, K-SERIES JOISTS SHALL BE ATTACHED TO SUPPORTING STEEL WORK OR STEEL BEARING PLATES WITH (2)-1/8" FILLET WELDS (ONE EACH SIDE) 1" LONG, WITH (2)-1/2" DIAMETER BOLTS, OR WITH A COMBINATION OF (1)-1/8" FILLET WELD AND (1)-1/2" DIAMETER BOLT.
   D. STEEL JOISTS AT COLUMN CENTER LINES SHALL BE BOLTED TO STRUCTURAL STEEL WITH (2)-1/2" DIAMETER BOLTS. WHERE STEEL JOISTS DO NOT SPACE TO COLUMN CENTER LINES, USE BOLTED CONNECTIONS FOR THE STEEL JOIST CLOSEST TO THE CENTER LINE.
   E. PROVIDE BOTTOM CHORD EXTENSION AT JOIST ON OR NEAREST TO COLUMN CENTERLINE AND DESIGN JOIST FOR OSHA STABILITY REQUIREMENTS.
   F. ALL ITEMS SUCH AS MECHANICAL EQUIPMENT, DUCT WORK, PIPES, CEILING, FIXTURES, ETC. THAT ARE TO BE SUPPORTED OR HUNG FROM THE STEEL JOIST SHALL BE FRAMED WITH AUXILIARY FRAMING TO THE PANEL POINTS OF THE STEEL JOIST. METHODS OF FRAMING THAT INDUCE BENDING TO THE STEEL JOIST CHORDS OR WEB MEMBERS WILL NOT BE PERMITTED.

METAL ROOF DECK:

1. SUBMITTALS: IN ACCORDANCE WITH DIVISION 1.
   A. SHOP DRAWINGS: INDICATE DECKING PLAN, SUPPORT LOCATIONS, PROJECTIONS, AND OPENINGS.
   B. PRODUCT DATA: PROVIDE DECK PROFILE, STRUCTURAL PROPERTIES, FINISHES, AND MANUFACTURER'S NAME.
   C. CERTIFICATES: CERTIFICATE OF MANUFACTURER'S MEMBERSHIP IN SDI. VERIFICATION THAT WELDERS EMPLOYED ARE AWS CERTIFIED.
2. QUALITY ASSURANCE:
   A. METAL ROOF DECK SHALL COMPLY WITH THE REQUIREMENTS OF THE STEEL DECK INSTITUTE "SPECIFICATIONS AND COMMENTARY FOR STEEL ROOF DECK" (LATEST EDITION). METAL DECK TO BE STORED OFF THE GROUND AND COVERED.
   B. METAL ROOF DECK SHALL BE THE CONFIGURATION, DEPTH AND MINIMUM GAUGE AS SHOWN ON THE DRAWINGS. ATTACHMENT TO THE SUPPORTING STRUCTURE SHALL BE AS SHOWN ON THE DRAWINGS.
3. MATERIALS:
   A. PRIME PAINTED SHEET STEEL: ASTM A611 GRADE C OR D AS REQUIRED BY SDI. COLOR TO MATCH STRUCTURAL STEEL SUB-NOTE M.2.
   B. WELDING MATERIALS: AWS D1.1.
4. FABRICATION:
   A. SHEET STEEL, CONFIGURED AND FINISHED AS NOTED ON THE DRAWINGS, CONFORMING TO SDI CRITERIA.
5. INSTALLATION:
   A. ERECT METAL DECKING IN ACCORDANCE WITH SDI CRITERIA, MANUFACTURER'S INSTRUCTIONS, APPROVED SHOP DRAWINGS AND DRAWING NOTES.
   B. METAL ROOF DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS.
   C. PLACE DECK PANELS FLAT AND SQUARE. WELD OR MECHANICALLY FASTEN TO STRUCTURE WITHOUT WARP OR DEFLECTION AS NOTED ON PLAN.
   D. DO NOT HANG OR SUPPORT ANY LOADS FROM METAL ROOF DECK.

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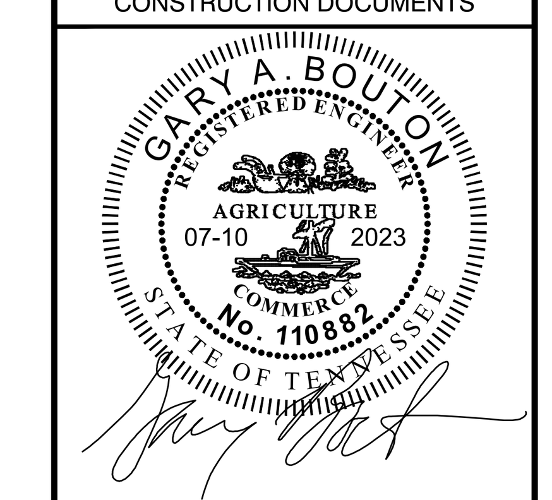
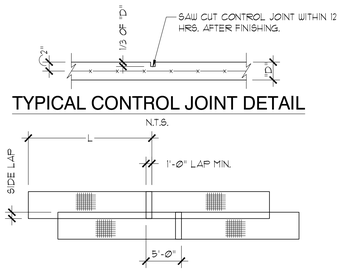


STRUCTURAL NOTES

S1



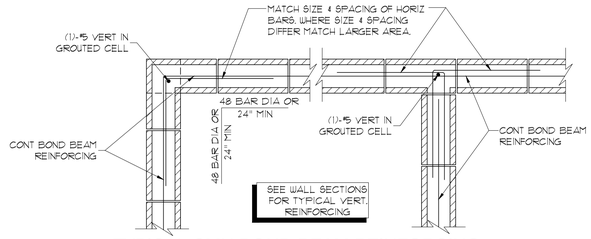
TYPICAL CONTROL JOINT DETAIL

N.T.S.

L=LENGTH OF ROLL OR SHEET OF W.W.F.

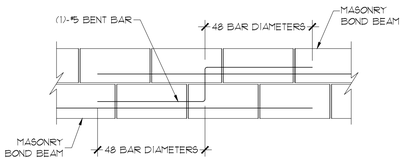
TYPICAL DETAIL FOR W.W.F. LAP IN FLOOR SLAB

N.T.S.



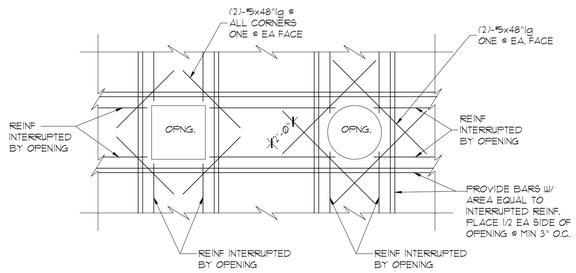
TYPICAL CMU BOND BEAM REINFORCING AT CORNERS & INTERSECTING WALLS

N.T.S.



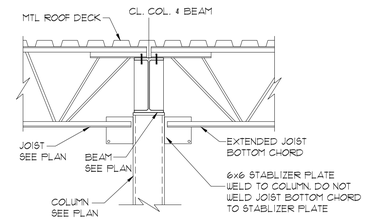
TYPICAL STEPPED BOND BEAM DETAIL

N.T.S.



REINFORCING STEEL @ OPENINGS IN WALLS AND SLABS

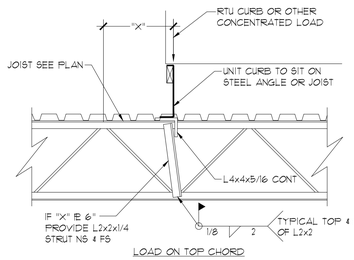
N.T.S.



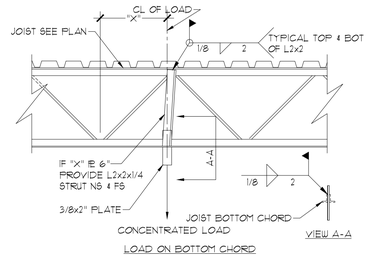
NOTE: PROVIDE 1/2"ø BOLTS EA. SIDE OF JOIST @ COLUMN-BOLT IN FIELD, WELDING TO FOLLOW PLACEMENT OF BRIDGING

TYPICAL TIE JOIST DETAIL

N.T.S.



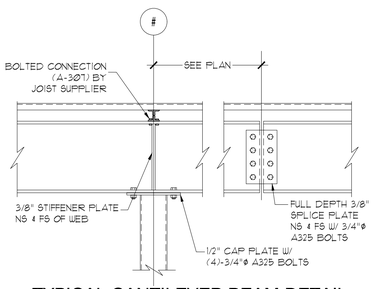
LOAD ON TOP CHORD



LOAD ON BOTTOM CHORD

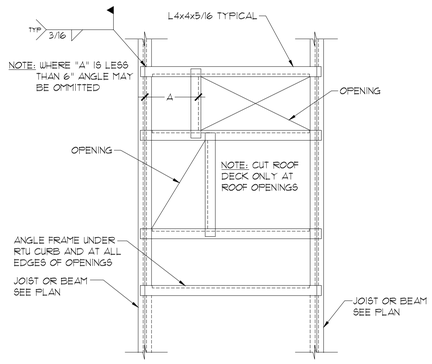
RTU CURB SUPPORT / TYPICAL JOIST REINFORCING DETAIL

N.T.S.



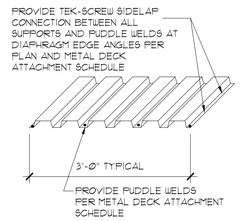
TYPICAL CANTILEVER BEAM DETAIL

N.T.S.



TYPICAL ANGLE FRAME AROUND RTU SUPPORT

N.T.S.



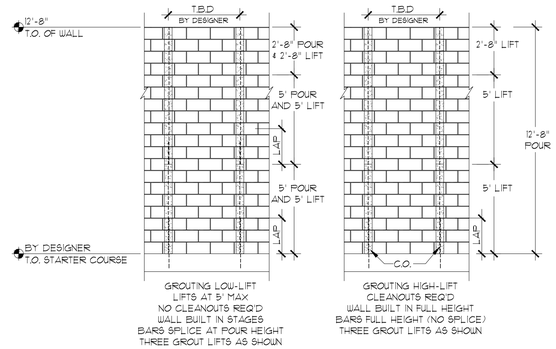
TYPICAL DECK ATTACHMENT

N.T.S.

METAL DECK ATTACHMENT SCHEDULE

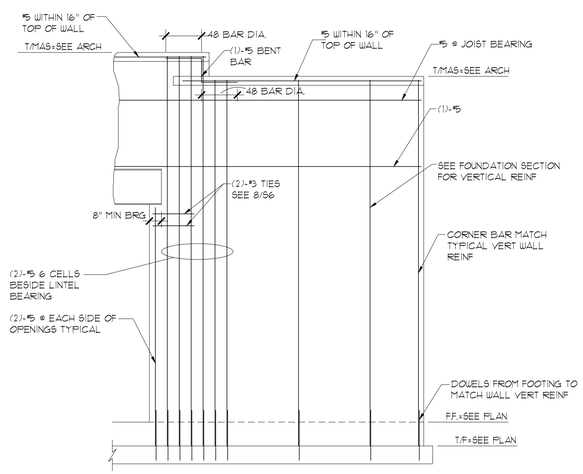
DESIGNATION	ALL AREAS	
ALLOWABLE SHEAR	180 PLF	
MATERIAL	1 1/2"x22ga WIDE RIB METAL DECK	
ATTACHMENT AT ALL BOUNDARIES	5/8" PUDDLE WELDS @ 6" O.C.	
ATTACHMENT AT SUPPORTS	5/8" PUDDLE WELDS 4 PER SHEET	
ATTACHMENT AT SIDELAP	(1)-#0 TEK SCREWS	

NOTES:
SUBMIT SUBSTITUTIONS TO ENGINEER FOR EVALUATION.



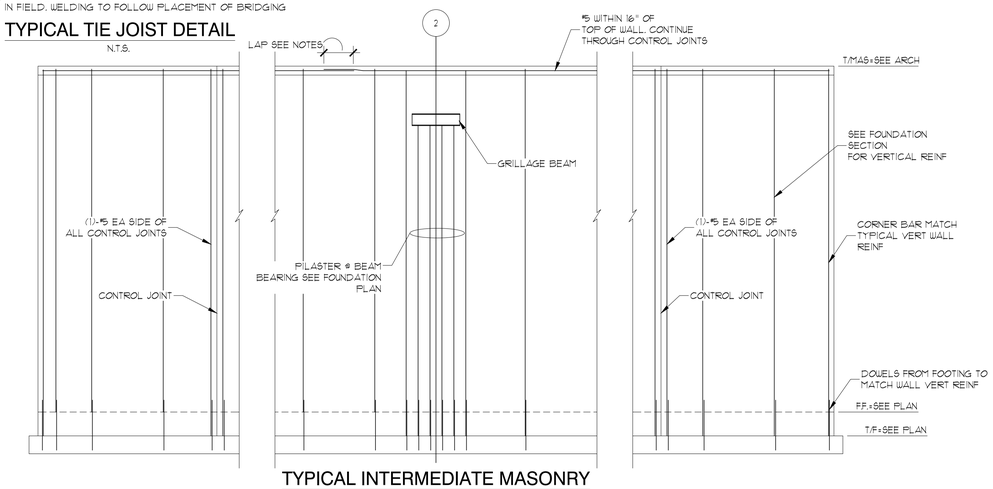
VERTICAL REINFORCING HI / LO GROUTING DTL

N.T.S.



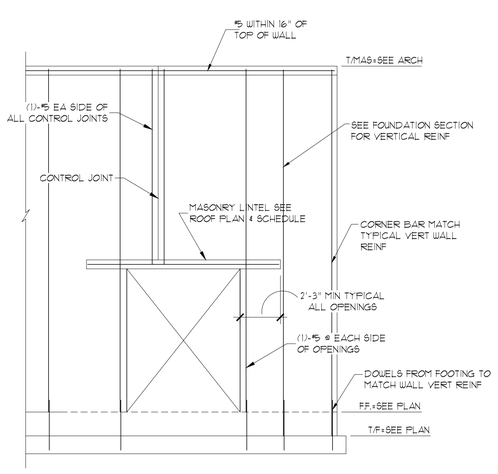
TYPICAL INTERMEDIATE MASONRY SHEAR WALL @ FRONT DETAIL

N.T.S.



TYPICAL INTERMEDIATE MASONRY SHEAR WALL @ SIDE DETAIL

N.T.S.



TYPICAL INTERMEDIATE MASONRY SHEAR WALL @ REAR DETAIL

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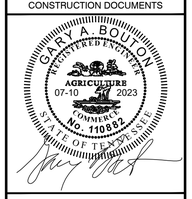
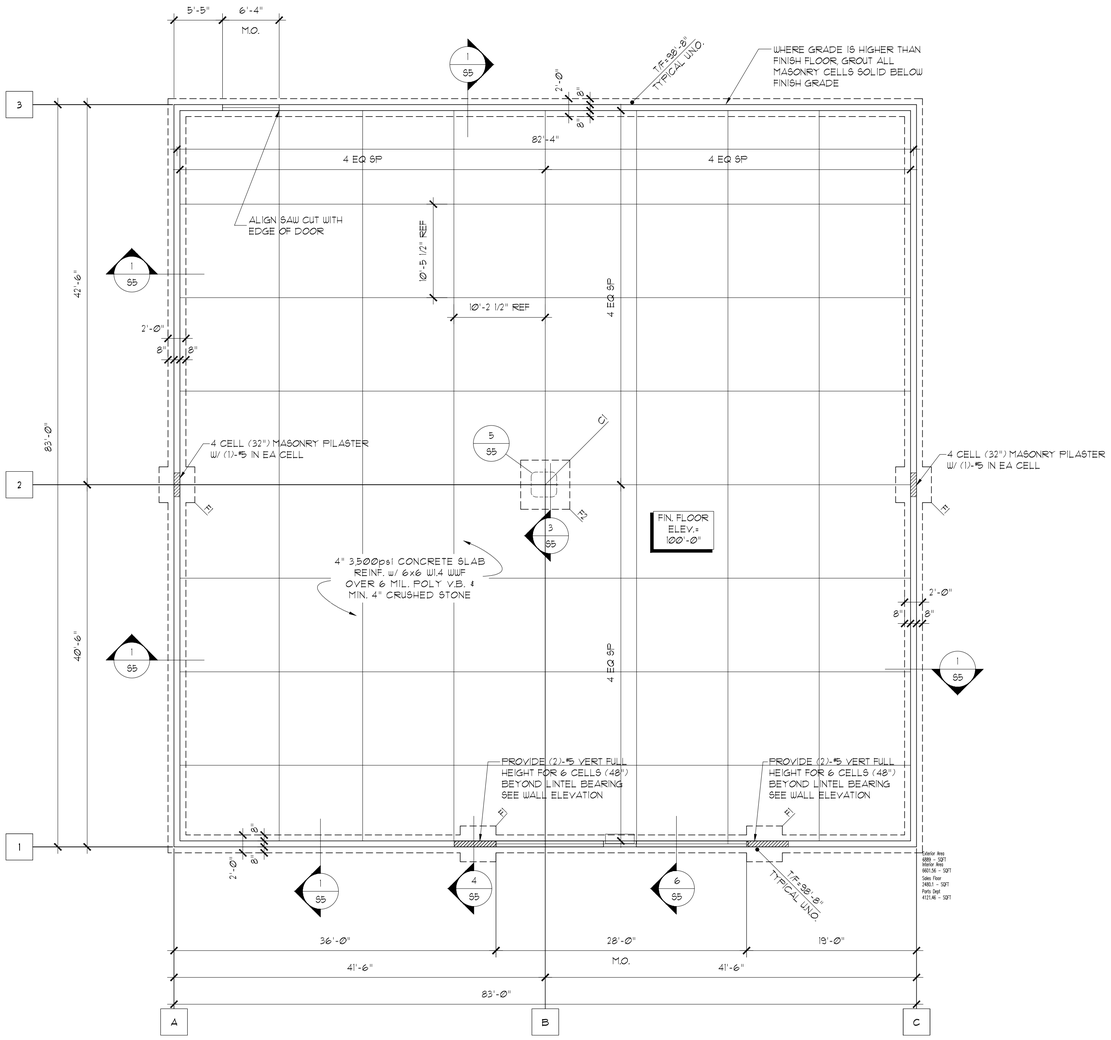


STRUCTURAL DETAILS

S2



FOUNDATION PLAN

SCALE: 1/8" = 1'-Ø"

TRUE NORTH

NOTES:

1. FLOOR CONSTRUCTION:
   4" 3500psi CONCRETE SLAB ON GRADE REINFORCED w/ 6x6 W1.4 WWF OVER 6 MIL. POLY V.B. & 4" MIN. CRUSHED STONE
2. ALL ELEVATIONS ARE REFERENCED FROM FINISHED FLOOR DATUM OF 100'-Ø", SEE ARCHITECTURAL OR SITE DRAWINGS FOR ACTUAL ELEVATIONS.
3. TOP OF INTERIOR FOOTING ELEVATION SHALL BE 99'-4".
4. FLOOR SLAB SHALL HAVE CONTROL JOINTS OVER ENTIRE SLAB.
5. ALL FOOTINGS TO BE CENTERED UNDER WALLS AND PILASTERS, U.N.O.
6. FOR STRUCTURAL NOTES AND TYPICAL DETAILS SEE SHEETS S1 & S2.
7. REFER TO SPECIFICATIONS, SHEET S1, FOR GEOTECHNICAL DESIGN CRITERIA.
8. GENERAL CONTRACTOR SHALL PROVIDE TERMITE TREATMENT WHEN REQUIRED BY CODE.

FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F1	4'-Ø"x4'-Ø"x1'-Ø"	(5)-#5 EA WAY @ BOTTOM
F2	5'-6"x5'-6"x1'-3"	(6)-#5 EA WAY @ BOTTOM (2)-#5 EA WAY @ TOP
F3		
F4		

COLUMN SCHEDULE

MARK	SIZE	BASE PL.	ANCHOR RODS	REMARKS
C1	ROUND HSS6x5/16	1x14x14	(4)-3/4"x12" AB	
C2				
C3				
C4				

NOTES:
1. EMBED DEPTH FOR A.R. IS TO BE (12 TIMES ROD DIAMETER) U.N.O. (SEE ANCHOR ROD DETAIL ON SHEET S2)
2. ANCHOR ROD C.L. IS TO BE MIN (2 TIMES THE ROD DIAMETER) FROM EDGE OF BASE PLATE U.N.O.
3. ANCHOR RODS SHALL HAVE HEAD OR NUT AT BOTTOM AND NUT AT TOP. (TACK WELD BOTTOM NUT TO ANCHOR ROD).

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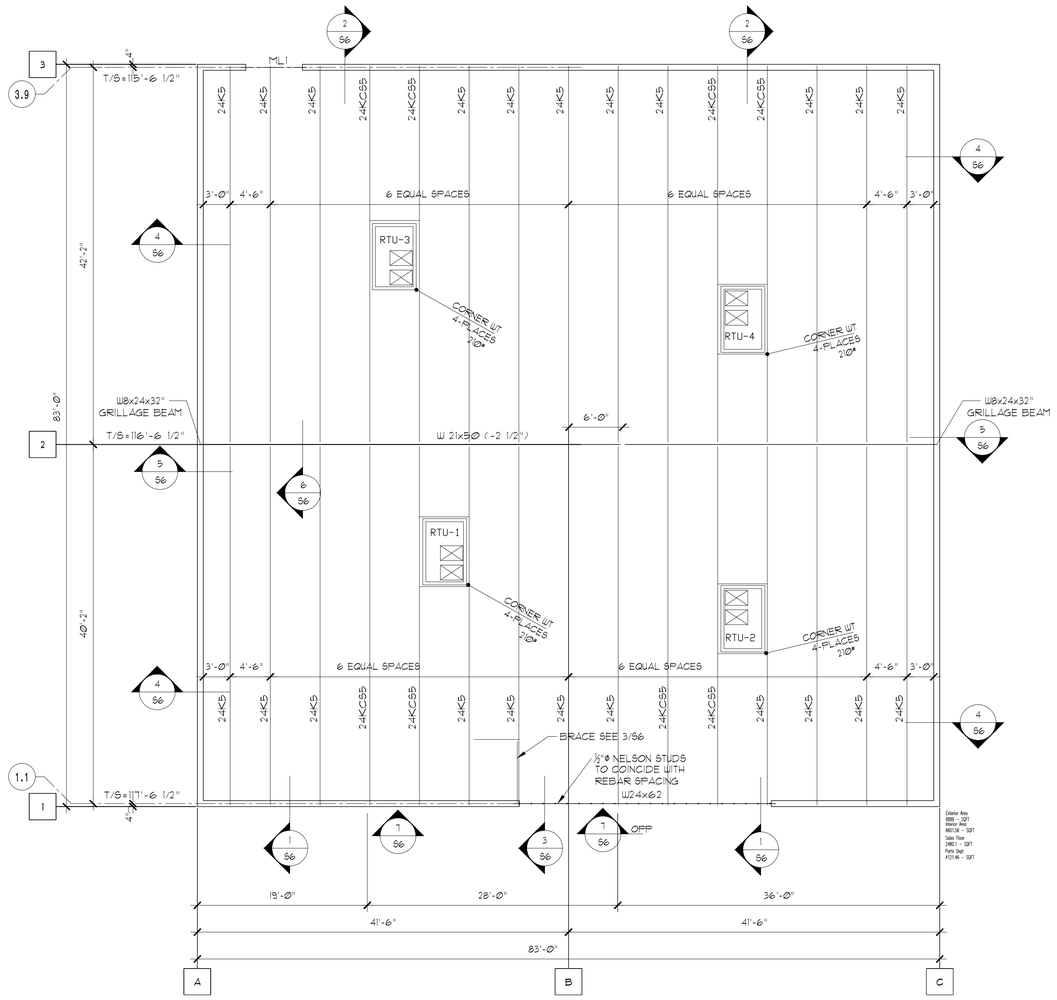
GARY A. BOUTON
REGISTERED ENGINEER
AGRICULTURE
07-10-2023
COMMERCIAL
No. 110882
STATE OF TENNESSEE

FOUNDATION PLAN

S3



ROOF FRAMING PLAN

SCALE: 1/8" = 1'-Ø"

TRUE NORTH

NOTES:

1. ROOF CONSTRUCTION:
   STEEL: 1 1/2"x22 GAUGE WIDE RIB METAL DECK. DECK SHALL BE FABRICATED AND INSTALLED PER SDI SPECIFICATIONS (3-SPAN MINIMUM). SEE TYPICAL DETAIL ON SHEET S2 FOR DECK CONNECTION.

2. ROOF DESIGN LOADS:
   DEAD LOAD = 15 PSF
   ROOF SNOW LOAD 10 PSF + DRIFTING
   ROOF LIVE LOAD = 20 PSF

3. NET UPLIFT ON JOISTS = 12 PSF.

4. T/S = TOP OF STEEL = BOTTOM OF METAL DECK. TOP OF BEAMS & GIRDERS ARE REFERENCED FROM T/S U.N.O. AND SHOWN THUS ON PLAN (T XXX'').

5. PROVIDE TIE JOIST PER OSHA REQUIREMENTS AT JOIST NEAREST COLUMN CENTERLINE SEE TYPICAL DETAIL ON SHEET S2.

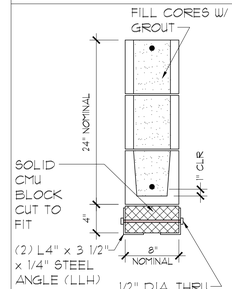
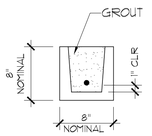
6. PROVIDE HORIZONTAL JOIST BRIDGING TOP AND BOTTOM CHORD AS PER SJI RECOMMENDATIONS.

7. COORDINATE ROOF OPENINGS AND ANGLE FRAMING LOCATIONS WITH MECHANICAL DRAWINGS.

8. THE CONCENTRATED LOADS FROM MECHANICAL UNITS ARE NOT INCLUDED IN THE SIZE DESIGNATION FOR THE JOISTS. THE JOIST MANUFACTURER SHALL DESIGN THE JOISTS APPLYING THESE LOADS IN ADDITION TO THE SIZE DESIGNATION. GENERAL CONTRACTOR TO COORDINATE THE WEIGHTS AND LOCATIONS OF THE MECHANICAL UNITS WITH THE MECHANICAL CONTRACTOR.

9. FOR STRUCTURAL NOTES AND TYPICAL DETAILS SEE SHEET S1 AND S2.

MASONRY LINTEL SCHEDULE

ML1	ML2
	
24" NOMINAL DEEP LINTEL W/ (1)-#5 TOP & BOTTOM	8" NOMINAL DEEP LINTEL W/ (1)-#6 @ BOTTOM

NOTES:
1. SEE WALL DETAIL ON SHEET S2 FOR EXTENT OF REINFORCING BEYOND EDGE OF OPENING.

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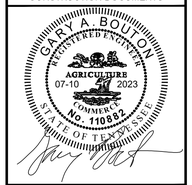
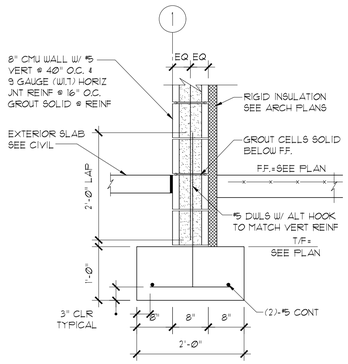
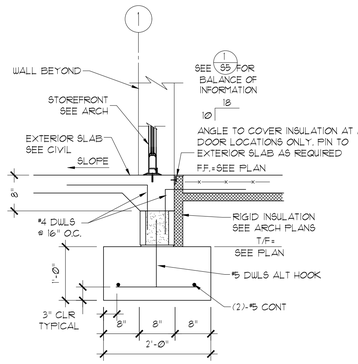


ROOF FRAMING PLAN

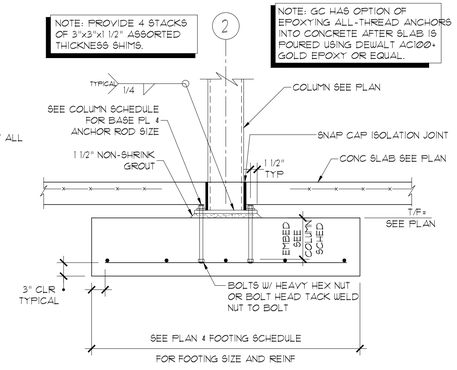
S4



1 / 55 SECTION
SCALE: 3/4" = 1'-Ø"

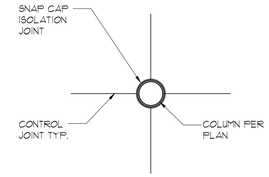


2 / 55 SECTION @ DOORS
SCALE: 3/4" = 1'-Ø"

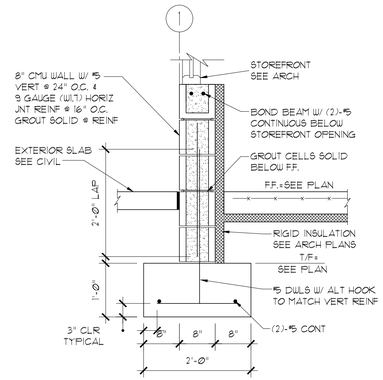


3 / 55 SECTION
SCALE: 3/4" = 1'-Ø"

4 / 55 OMITTED
SCALE: 3/4" = 1'-Ø"



5 / 55 PLAN DETAIL AT COLUMN
SCALE: 3/4" = 1'-Ø"

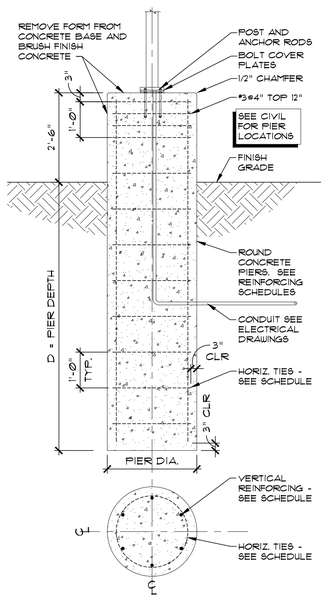


6 / 55 SECTION
SCALE: 3/4" = 1'-Ø"

LIGHT POLE BASE PIER SCHEDULE

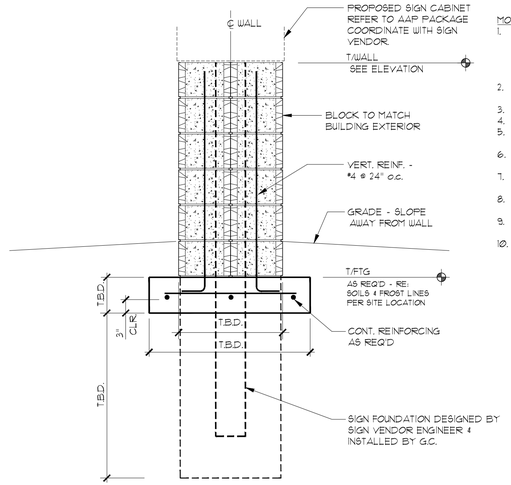
WIND SPEED	PIER DIAMETER (IN)	PIER DEPTH D	VERT. REINF.	TIES
120 MPH	24	5'-0"	(6) #5's	#3's @ 12" O.C.

MAX. 3 FIXTURES PER 25'-0" TALL POLE



TYPICAL SITE LIGHTING POLE BASE DETAIL
SCALE: 1/2" = 1'-Ø"

7 / 55 SITE LIGHTING- POLE BASE DETAIL
SCALE: 1/2" = 1'-Ø"



8 / 55 MONUMENT FOUNDATION
SCALE: 3/4" = 1'-Ø"

MONUMENT SIGN GENERAL NOTES:

1. G.C. TO COORDINATE WITH SIGN VENDOR AND VERIFY THE SITE SPECIFIC DESIGN OF MONUMENT SIGN & STRUCTURE. IF MUNICIPALITY REQUIRES ARCHITECTURAL BUILDING MATERIALS TO BE IMPLEMENTED THEN THEY SHALL BE PROVIDED BY THE G.C.
2. G.C. TO CONSULT WITH SIGN PERMIT VENDOR TO GET ENGINEERING.
3. G.C. TO SUPPLY ALL LABOR AND EXCAVATING EQUIPMENT.
4. G.C. RESPONSIBLE FOR ORDERING AND POURING CONCRETE.
5. G.C. RESPONBLE FOR MASONRY, GROUTING, REINFORCING, SEALANTS, FLASHING, CLEANING.
6. G.C. RESPONSIBLE FOR CALLING ALL NECESSARY INSPECTIONS.
7. G.C. TO SECURE & COORDINATE PERMITS FOR SIGN LOCATION.
8. G.C. RESPONSIBLE FOR CONTACTING ALL NECESSARY UNDERGROUND LOCATORS.
9. G.C. RESPONSIBLE FOR STUBBING ELECTRICAL INTO FOUNDATION PRIOR TO POURING.
10. G.C. RESPONSIBLE FOR COORDINATING ANY ADDITIONAL REQUIREMENTS WITH AAP SIGN VENDOR PRIOR TO START OF SIGN CONSTRUCTION.

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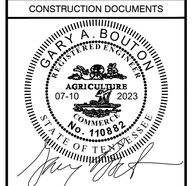
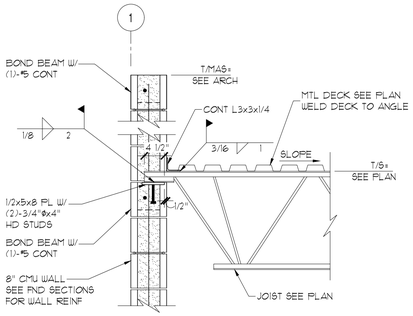
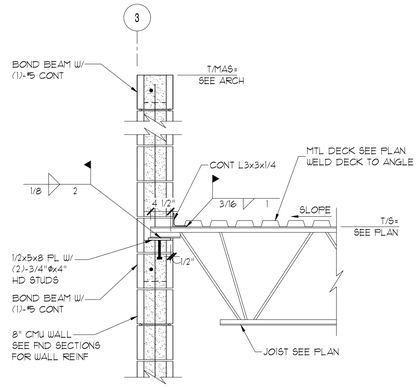


FOUNDATION SECTIONS

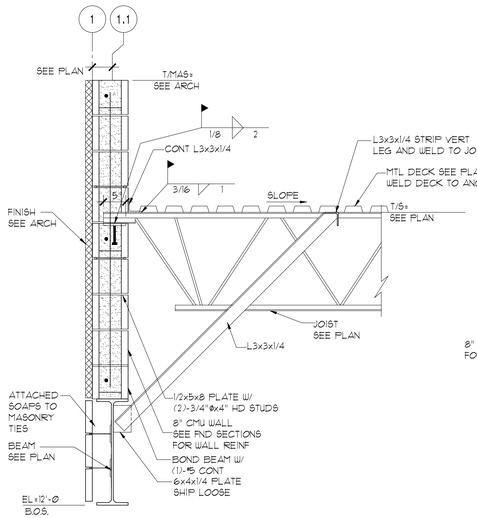
S5



1/56 SECTION AT FRONT WALL
SCALE: 3/4" = 1'-Ø"



2/56 SECTION AT REAR WALL
SCALE: 3/4" = 1'-Ø"



3/56 SECTION
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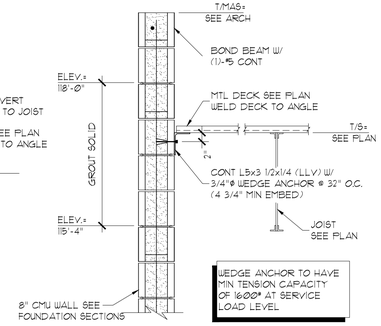

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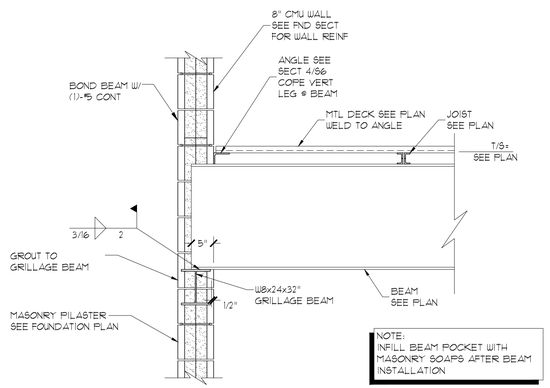

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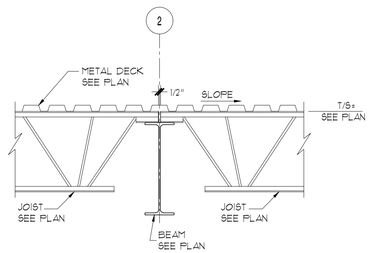

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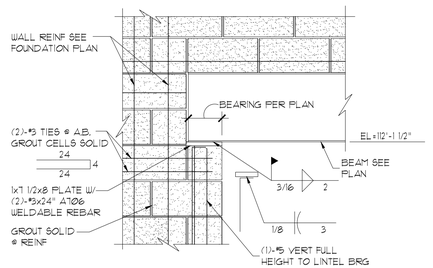
SCALE: 3/4" = 1'-Ø"



7/56 SECTION
SCALE: 3/4" = 1'-Ø"

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1843 Foreman Drive
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420 N. Washington Ave., Suite 7
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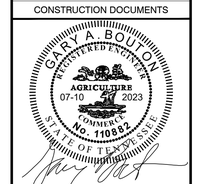
A New Store for
Advance Auto Parts *Store # 17061*
2056 Genesis Road *(Genesis Rd & Interstate Dr Lot #2)*
Crossville, TN 38555

REVISIONS		
REV	DATE	DESCRIPTION

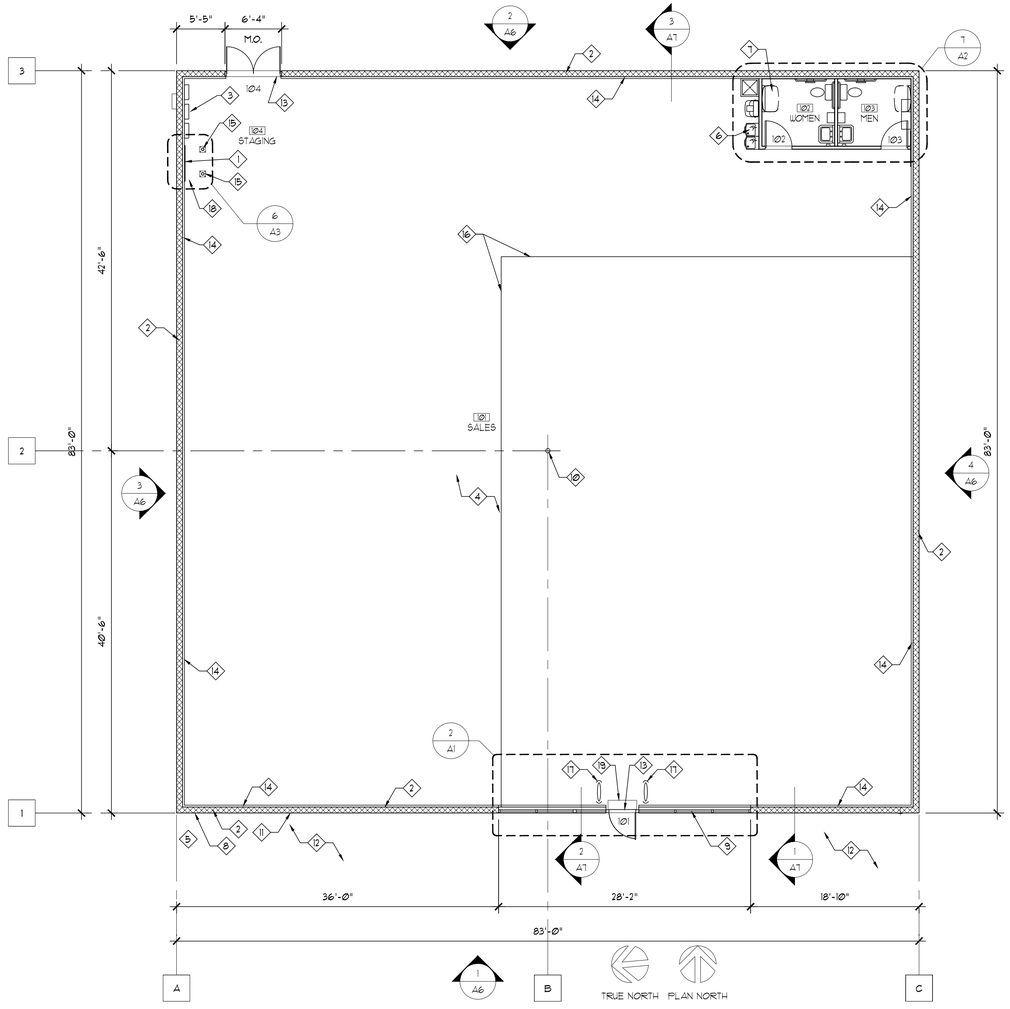
Project Number	23-81
Date:	07-10-2023
Drawn by:	J DORRIS
Checked by:	G BOUTON

CONSTRUCTION DOCUMENTS



ROOF FRAMING SECTIONS

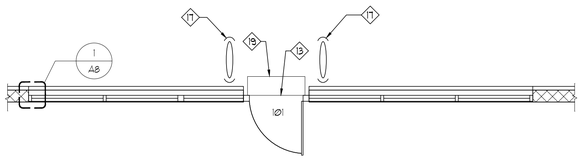
S6



1 A1 FLOOR PLAN
SCALE: 1/8" = 1'-0"

FINISH GENERAL NOTES:

1. VINYL BASE TO BE FLAT STOCK OF TYPICAL 1/8" THICKNESS, MIN. SPLICE JOINT SPACING SHALL BE 4'-0".
2. ALL INTERIOR FINISHES SHALL COMPLY WITH LOCAL BUILDING CODES.
3. INTERIOR SIDE OF EXTERIOR CMU WALL SHALL HAVE BLOCK FILLER APPLIED TO DECK. WALL TO BE PAINTED TO BOTTOM OF DECK.
4. PAINT TELEPHONE FIRE RETARDANT PLYWOOD BACKBOARD TO MATCH WALLS.
5. PAINT WALLS AND APPLY FLOOR SEALANT PRIOR TO INSTALLING VINYL BASE. FULLY ADHERE VINYL BASE.
6. PROVIDE CLEAR SILICON SEALANT AT ALL REQ'D PLUMBING FIXTURES, ACCESSORIES, FRP, ETC. PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
7. DRYWALL FINISH TO BE CLASS 4.



2 A1 DETAIL PLAN AT STOREFRONT
SCALE: 1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES:

1. CONCRETE FLOOR TO BE MACHINE TROWELED FINISH THROUGHOUT.
2. CONTRACTOR IS RESPONSIBLE FOR INSTALLING TOILETS SO AS TO COMPLY WITH ALL APPLICABLE CODES, ORDINANCES AND ACCESSIBILITY STANDARDS.
3. INSTALL BACKFLOW PREVENTER IN MAIN SERVICE WATER LINE AS REQUIRED BY LOCAL CODE.
4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING FIRE EXTINGUISHERS MODEL #2A10BC ABC RATING, QUANTITY AND LOCATION AS REQUIRED BY FIRE MARSHAL. (MINIMUM OF 4.)
5. ALL EXTERIOR WALL CELLS TO BE FILLED W/CORE-FILL 500 FOAM INSULATION.
6. PREPARE FLOOR SLAB AS REQUIRED FOR APPLICATION OF FLOOR SEALER THROUGHOUT ENTIRE BUILDING.

TROWELING CONCRETE @ INTERIOR SLABS NOTES:

A. HAND OR POWER FLOAT FLOOR BEFORE STARTING TROWELING.
B. FOR FIRST TROWELING, KEEP BLADE(S) AS FLAT AS POSSIBLE AND USE LOW SPEED, MINIMIZING "WASHBOARD" OR "CHATTER MARKS" AND "PITTING".
C. TROWEL 2 TIMES MINIMUM WITH FIRST TWO TROWELING AT RIGHT ANGLES. CEASE TROWELING BEFORE TROWEL BLADES SCRATCH SURFACE.
D. ALLOW TIME BETWEEN TROWELING FOR CONCRETE TO STIFFEN AND WATER SHEEN TO DISAPPEAR.
E. DO NOT ADD WATER TO SLAB SURFACE DURING TROWELING.
F. DO NOT RIDE TROWELS ON EXISTING HARDENED CONCRETE SLABS. TROWELS SHALL BE CARRIED OFF OF SLAB SURFACES. WHEN PARKING TROWELS ON FRESH CONCRETE, PLACE ON TOP OF PLYWOOD.
G. ENSURE KNEEBOARD IMPRESSIONS, TROWEL MARKS, FOOT PRINTS AND/OR CHATTERED AREAS ARE NOT EVIDENT AFTER FLOOR FINISH.
H. PROVIDE DENSE, SMOOTH, FLAT ROUEL SURFACE, UNIFORM IN TEXTURE.
I. FINISH SURFACE TO PRODUCE MAXIMUM SHEEN PER SPECIFICATIONS FREE OF SCRATCHES AND TROWEL MARKS.

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLR / BASE: PC-1	FLR / BASE: VB-1	WALLS: VCT-1 ALTERNATE	WALLS: IP-1	WALLS: IP-2	WALLS: FRP-1	CEILING: PAINT IP-2	CEILING: GYP BD IP-1	CEILING HEIGHT	REMARKS
101	SALES	●	●		●		●			OPEN	G.C. TO COORDINATE WITH AAP CM FOR PAINTING OF THE DECK AND BEAMS. DOORS, FRAMES AND TRIM TO BE IP-2.
102	WOMEN	●	●			●			●	8'-0"	NOTE - THE WALLS ON THE EXTERIOR OF THE RESTROOMS ARE TO BE IP-1 FRP IS NOT TO BE PAINTED
103	MEN	●	●			●			●	8'-0"	
104	STAGING	●	●		●					OPEN	DOORS, FRAMES AND TRIM TO BE IP-2.

MATERIAL SCHEDULE

	MATERIAL:	LOCATION:
FLOORING		
PC-1	ASHFORD (OR) W.R. MEADOWS POLISHED CONCRETE. COORDINATE WITH AAP PROJECT MANAGER.	ENTIRE SALES FLOOR AREA AND TOILET ROOMS - REFER TO RESPONSIBILITY MATRIX ON SHEET T1 FOR ADDITIONAL INFORMATION.
VCT-1	ARMSTRONG 12 X 12 X 1/8 SANDY BEACH #51929. ALTERNATE AZROCK 12 X 12 X 1/8 STRATUS CORTINA WHISPER #V-209.	** USE IN LIEU OF THE CONCRETE FINISH IN UPFITS
BASE		
VB-1	4" BLACK VINYL BASE - ARMSTRONG, JOHNSONITE OR ROPPE.	INSTALL ON WALLS THAT DO NOT RECEIVE FIXTURES
CEILING		
GB-1	USG 1/2" GYPSUM BOARD	FRAMED TOILET ROOM WALLS. CMU WALLS DO NOT RECEIVE GWB.
ACT-1	ARMSTRONG 155 WHITE FISSURED SQUARE EDGE 24"x48"	** ONLY USE WHEN NECESSARY 14'-0" AFF IN SALES AREA.
INTERIOR PAINT		
IP-1	AAP-INT1 DELICATE WHITE (PPG1001-1)	DRYWALL, BLOCK WALLS,
IP-2	AAP-INT2 PPG SHADOW TAUPE (PPG 14-01)	COLUMNS DOORS, JAMBS AND RESTROOM WALLS
FIBERGLASS REINFORCED PANELS		
FRP-1	MARLITE WHITE FIBERGLASS REINFORCED PANELS	WALLS ADJACENT TO THE MOP SINK AND EWC WALL

FLOOR PLAN KEY NOTES:

1. 4'X10' X ¾" APA RATED PLYWOOD BACKBOARD. REFER TO SHEET E4 FOR ADDITIONAL INFORMATION.
2. CMU WALL. REFER TO WALL SECTIONS AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. ELECTRICAL EQUIPMENT. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. AREA OF SEALED FLOOR. ASHFORD FORMULA BY CURECRETE CHEMICAL COMPANY, INC. RE: CONCRETE FLOOR FINISH NOTES ON SHEET A1 FOR ADDITIONAL INFORMATION.
5. VICINITY OF DOMESTIC WATER SERVICE ENTRY. REFER TO PLUMBING DRAWINGS FOR SPECIFIC LOCATION. (VARIES SITE SPECIFIC)
6. BI-LEVEL DRINKING FOUNTAIN. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
7. WATER HEATER ON PLATFORM (ABOVE) TOILET ROOM. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
8. WALL HYDRANT. REFER TO PLUMBING DRAWINGS.
9. ALUMINUM STOREFRONT AND GLAZING. REFER TO SHEET A6 FOR ADDITIONAL INFORMATION.
10. STEEL COLUMN PAINT IP-2. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. HIDDEN LINE INDICATES FACE OF METAL PANEL ABOVE. REFER TO ELEVATIONS FOR ADDITIONAL INFORMATION.
12. SLOPE CONCRETE WALK AWAY FROM BUILDING 1/8" PER FT. FOR POSITIVE DRAINAGE AND PROVIDE BROOM FINISH. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
13. INSTALL ACCESSIBLE ALUMINUM THRESHOLD ON EXTERIOR AND INTERIOR DOORS.
14. PROVIDE R-6.95 PERLITE CMU CAVITY LOOSE-FILL INSULATION AND R-7.5 CONTINUOUS RIGID INSUL W/ 7/8" HAT CHANNELS @ 16" O.C. W/ 1/2" GYP. BD. ONE SIDE TO UNDERSIDE OF DECK. PROVIDE ALL REQUIRED WALL / CORNER TREATMENTS AT OPENINGS IN HEAVY TRAFFIC FLOW AREAS.
15. PROVIDE (2) 4 1/2" DIA. X 3'-0" HIGH SURFACE MOUNTED SAFETY BOLLARDS IN FRONT OF PLYWOOD BACKBOARD - SEE DETAIL 6/A3
16. CONCRETE SLAB GLOSS TRANSITION LINE. REFER TO FLOOR FINISH NOTES ON SHEET A1 FOR ADDITIONAL INFO AND SHEET A3 FOR FINAL DIMENSIONED LOCATION.
17. NEW EAS SYSTEM - SEE ELECTRICAL PLANS. COORDINATE FINAL PLACEMENT WITH SUPPLIER.
18. DRAWINGS STORAGE TUBE MOUNTED TO PLYWOOD BACKBOARD.
19. AIR CURTAIN ABOVE.

INTERIOR PAINTING (2020)

1. DRYWALL/GYPSUM BOARD
   a. PRIME: 1 COAT PPG SEAL GRIP1 Interior/Exterior Universal Primer/Sealer
   i. PREP:
      1. As drywall is very sensitive to moisture, drywall can be considered moisture-compromised when the % moisture content exceeds 1%
      2. One of the most important steps in repainting drywall is identifying the existing coating (i.e., acrylic, alkyd, epoxy, etc.). Damaged areas should be repaired prior to priming and painting. The surface should be clean and free from any contaminants including dirt, grease, oils, dust, and loose and peeling paint. Previous coatings that have an elevated sheen, regardless of the coating type, should be scuff sanded to ensure proper adhesion of the new coating.
   b. FINISH: 2 COATS SPEEDHIDE Zero Interior Latex Eggshell

2. TOILET ROOM DOORS AND TRIM
   a. PRIME: 1 COAT PITT-TECH PLUS 4020 PF
   i. PREP:
      1. Remove all rust, dirt, moisture, grease or other contaminants from the surface
      2. Power tool cleaning in accordance with SSPC SP-3 or hand tool cleaning to SSPC SP-2 requirements is acceptable
   b. FINISH: 2 COATS PITT-TECH PLUS 4216 HP Semi-Gloss

3. BLOCK WALLS (SMOOTH AND SPLIT FACE)
   a. PRIME: 1 COAT SPEEDHIDE 6-15X1 1 NEW
   i. PREP:
      1. Concrete and mortar must be cured at least 30 days
      2. max moisture 12%, max pH 9
      3. Surface must be dry and free from loose and peeling paint, dirt, mildew, form oil, curing compounds, loose or excess mortar, mortar spatter, salt deposits, and other surface contaminants. Soft crumbly surface layers or previous coatings softened by water must be completely removed. Mortar should cure for at least 30 days and preferably 90 days prior to priming.
   b. PRIME: 1 COAT SEAL GRIP Interior/Exterior Universal Primer/Sealer
   i. PREP:
      1. Surfaces to be coated must be dry, clean, sound, and free from all contamination including loose and peeling paint, dirt, grease, oil, wax, concrete curing agents and bond breakers, chalk, efflorescence, mildew, rust, product fines, and dust. Remove loose paint, chalk, and efflorescence by wire brushing, scraping, sanding, and/or pressure washing. Putty all nail holes and caulk all cracks and open seams. Sand all glossy, rough, and patched surfaces.
   c. FINISH: 2 COATS SPEEDHIDE? Zero Interior Latex Eggshell

4. METAL COLUMNS AND EXTERIOR DOORS
   a. PRIME: 1 COAT PITT-TECH PLUS 4020 PF
   i. PREP:
      1. Remove all rust, dirt, moisture, grease or other contaminants from the surface
      2. Power tool cleaning in accordance with SSPC SP-3 or hand tool cleaning to SSPC SP-2 requirements is acceptable
   b. FINISH: 2 COATS PITT-TECH PLUS 4216 HP Semi-Gloss

5. METAL BAR JOIST, STEEL BEAMS, DUCT WORK AND CEILING DECKING
   a. PRIME: 1 COAT PITT-TECH PLUS 4020 PF
   i. PREP:
      1. Remove all rust, dirt, moisture, grease or other contaminants from the surface
      2. Power tool cleaning in accordance with SSPC SP-3 or hand tool cleaning to SSPC SP-2 requirements is acceptable
   b. FINISH: 2 COATS SPEEDHIDE? SUPER TECH? Interior Latex Dry-Fog Flat

CONCRETE FLOOR FINISH 2021

1.04 QUALITY ASSURANCE
A. SEE RESPONSIBILITY MATRIX (SHT. T-1 OF PLANS) AND SECTION 201 OF THIS SPECIFICATION, FOR INFORMATION REGARDING AUTHORIZED APPLICATORS.
B. COORDINATION WITH A SPECIFICATION REPRESENTATIVE IS REQUIRED PRIOR TO POURING OF THE SLAB, AND PRIOR TO APPLICATION OF THE HARDENER-DENSIFIER.

1.05 DELIVERY, STORAGE, AND HANDLING
A. DELIVER MATERIALS TO SITE IN MANUFACTURER'S ORIGINAL, UNOPENED, FACTORY NUMBERED CONTAINERS AND PACKAGING WITH LABELS CLEARLY IDENTIFYING PRODUCT NAME AND MANUFACTURER.
B. RECORD NUMBERS FOR OWNER'S RECORDS.
STORE MATERIALS IN A CLEAN, DRY AREA IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
C. KEEP PRODUCT FROM FREEZING.
D. AVOID DIRECT CONTACT WITH THIS PRODUCT AS IT MAY CAUSE MILD TO MODERATE IRRITATION OF THE EYES AND/OR SKIN.
E. PROTECT MATERIALS DURING HANDLING AND APPLICATION TO PREVENT DAMAGE OR CONTAMINATION.

1.06 PROJECT CONDITIONS AND ENVIRONMENTAL REQUIREMENTS
A. DO NOT INSTALL PRODUCT UNDER ENVIRONMENTAL CONDITIONS OUTSIDE OF MANUFACTURER'S ABSOLUTE LIMITS.
B. DO NOT APPLY CONCRETE DENSIFIER AND CHEMICAL HARDENER WHEN CONCRETE TEMPERATURE IS BELOW 35° F (2° C) OR ABOVE 138° F (57° C).
C. DO NOT USE FROZEN MATERIALS THAW AND AGITATE PRIOR TO USE.
D. DO NOT USE ON HIGHLY DENSE OR NON-POROUS SURFACES.
E. NO SATISFACTORY PROCEDURES ARE AVAILABLE TO REMOVE PETROLEUM OR RUST STAINS FROM CONCRETE. PREVENTION IS THEREFORE ESSENTIAL. TAKE PRECAUTIONS TO PREVENT STAINING OF CONCRETE PRIOR TO APPLICATION OF HARDENER-DENSIFIER AND FOR MINIMUM OF THREE MONTHS AFTER APPLICATION.
F. IT IS RECOMMENDED THAT THE CONCRETE SLAB IS POURED AFTER ERECTION OF WALLS AND STEEL ROOF STRUCTURE, HOWEVER, IF CONDITIONS DO NOT ALLOW, THEN THE SLAB MUST BE PROTECTED BY 1/2" PLYWOOD OVER 6-MIL VISQUEEN WHILE MASONRY AND STEEL ERECTION TAKE PLACE.
G. PROHIBIT PARKING OF VEHICLES ON CONCRETE SLAB.
H. IF CONSTRUCTION EQUIPMENT MUST BE USED FOR ADDITIONAL TRADES, THEN THE SLAB MUST BE CONTINUALLY PROTECTED BY 1/2" PLYWOOD OVER 6-MIL VISQUEEN.
I. PROHIBIT PIPE CUTTING USING PIPE CUTTING MACHINERY ON CONC. SLAB
J. PROHIBIT TEMPORARY PLACEMENT AND STORAGE OF STEEL MEMBERS ON CONCRETE SLAB.

1.07 WARRANTY
A. PROVIDE MANUFACTURER'S WARRANTY THAT A STRUCTURALLY SOUND CONCRETE SURFACE PREPARED AND TREATED ACCORDING TO THE MANUFACTURER'S DIRECTIONS WILL REMAIN PERMANENTLY DUSTPROOF HARDENED AND WATER REPELLENT. IF AFTER THE SPECIFIED SEALING PERIOD THE TREATED SURFACE DOES NOT REMAIN DUSTPROOF HARDENED AND WATER REPELLENT, PROVIDE AT MANUFACTURER'S EXPENSE, SUFFICIENT MATERIAL TO TREAT DEFECTIVE AREAS.

PART 2 PRODUCTS
2.01 MANUFACTURER
A. ACCEPTABLE MANUFACTURERS:
ASHFORD FORMULA BY CURECRETE DISTRIBUTION, INC.
W.R. MEADOWS INC.

2.02 MATERIALS
A. PERFORMANCE BASED SPECIFICATION: CONCRETE DENSIFIER AND CHEMICAL HARDENER COMPOUND SHALL BE A READY-TO-USE, WATER-BASED, COLORLESS LIQUID FORMULATED WITH CHEMICALLY REACTIVE RAW MATERIALS THAT MEETS THE MAXIMUM VOC CONTENT LIMITS OF 400 G/L FOR CONCRETE PROTECTIVE COATINGS AS REQUIRED BY THE US. EPA ARCHITECTURAL COATINGS RULE.
B. PROPRIETARY BASED SPECIFICATION: CONCRETE DENSIFIER CHEMICAL HARDENER AND CURING COMPOUND SHALL BE LIQUI-HARD AS MANUFACTURED BY W. R. MEADOWS.
C. PROPRIETARY BASED SPECIFICATION: ASHFORD FORMULA AS MANUFACTURED BY CURECRETE DISTRIBUTION

PART 3 EXECUTION
3.01 EXAMINATION
A. EXAMINE SURFACES TO RECEIVE CONCRETE DENSIFIER AND CHEMICAL HARDENER. NOTIFY ARCHITECT AND AAP PROJECT MANAGER IF SURFACES ARE NOT ACCEPTABLE. DO NOT BEGIN APPLICATION UNTIL UNACCEPTABLE CONDITIONS HAVE BEEN CORRECTED.

3.02 SURFACE PREPARATION
A. PROTECT ADJACENT SURFACES NOT DESIGNATED TO RECEIVE TREATMENT.
B. CLEAN AND PREPARE SURFACES TO RECEIVE TREATMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, ENSURING THAT ALL STAINS, OIL, GREASE, FORM RELEASE AGENTS, DUST AND DIRT, AND REMNANTS OF THE CURING COMPOUND ARE REMOVED PRIOR TO APPLICATION.

3.03 APPLICATION
A. APPLY CONCRETE PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. ENSURE APPLICATION EQUIPMENT IS CLEAN AND FREE OF PREVIOUSLY USED MATERIALS.
C. DO NOT DILUTE CONCRETE DENSIFIER AND CHEMICAL HARDENER.
D. NEW CONCRETE:
W.R MEADOWS OPTION, APPLY CURE-HARDENER-DENSIFIER TO NEW CONCRETE AS SOON AS THE SURFACE WATER DISAPPEARS AND THE SURFACE WILL NOT BE MARRED BY WALKING WORKMEN, WITHIN 2 TO 12 HOURS OF CONCRETE PLACEMENT.
ASHFORD OPTION, APPLY CURE-SEAL-HARDENER TO NEW CONCRETE AS SOON AS THE CONCRETE IS FIRM ENOUGH TO WORK ON AFTER TROWELING, EXCEPT ON COLORED CONCRETE WAIT MINIMUM OF 30 DAYS.
   a. APPLY UNDILUTED CONCRETE DENSIFIER AND CHEMICAL HARDENER AT RATE PER MANUFACTURER'S RECOMMENDATION, USING A LOW-PRESSURE SPRAYER OR BY SPREADING EVENLY WITH A SOFT-BRISTLED BROOM.
   b. SQUEEGEE SURFACE COMPLETELY DRY, FLUSHING ANY REMAINING SLIPPERY AREAS UNTIL NO RESIDUE REMAINS.
   c. WET VACUUM OR SCRUBBING MACHINES MAY BE USED TO REMOVE RESIDUE, PROVIDED MANUFACTURER'S INSTRUCTIONS ARE FOLLOWED. USE OF MOPS IS PROHIBITED
E. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
F. IF THIS IS THE APPLICATOR'S FIRST PROJECT USING THIS PRODUCT, PROVIDE THE MANUFACTURER'S TECHNICAL REPRESENTATIVE ON-SITE TO FAMILIARIZE INSTALLERS WITH PROPER PROCEDURES.
G. PREVENT DAMAGE TO AND SOILING OF ADJACENT WORK.

3.04 BURNISHING/POLISHING
A. BURNISH TREATED FLOOR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND THE FOLLOWING:
   a. FOR NEW CONCRETE, ALLOW DENSIFIER AND HARDENER TO "CURE" FOR A MINIMUM OF 28 DAYS BEFORE BEGINNING BURNISHING.
   b. FOR EXISTING CONCRETE, ALLOW 24 HOURS FOLLOWING APPLICATION, THOROUGHLY CLEANING FLOOR BEFORE BEGINNING BURNISHING OR GRINDING.
   c. FOR NEW AND EXISTING FLOORS, BURNISH FLOOR SURFACE BY SUCH MEANS TO ACHIEVE CPAA LEVEL 2 WITH A GLOSS READING OF 40-50 IN THE SALES AREA AND A LEVEL 1 IN REMAINDER OF STORE.

3.05 PROTECTION
A. PROTECT FINISHED POLISHED CONCRETE FLOORING FROM FOOT TRAFFIC FOR A MINIMUM 12 HOURS IS AFTER APPLICATION OF CONCRETE DENSIFIER-CHEMICAL HARDENER.
B. PROTECT INSTALLED FLOORS UNTIL CHEMICAL REACTION PROCESS IS COMPLETE BY COMPLYING WITH THE PRECAUTIONS LISTED UNDER PROJECT CONDITIONS.
C. CLEAN FLOOR REGULARLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS BECAUSE WATER WILL ACCELERATE THE SEALING AND SCRUBBING WILL IMPART A SHINE.
D. CLEAN UP SPILLS IMMEDIATELY AND SPOT-TREAT STAINS WITH GOOD DEGREASER OR OIL EMULSIFIER.
E. PRECAUTIONS AND CLEANING ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNTIL SUBSTANTIAL COMPLETION.

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1843 Foreman Drive
Cookeville, TN. 38501
931-528-7475
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sparrow Ventures
931-261-7006

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Cookeville, TN 38501
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A New Store for
Advance Auto Parts *Store # 17061*
2056 Genesis Road *(Genesis Rd & Interstate Dr Lot #2)*
Crossville, TN 38555

REV	DATE	DESCRIPTION
		REVISIONS

Project Number	23-81
Date:	07-10-2023
Drawn by:	J DORRIS
Checked by:	G BOUTON

CONSTRUCTION DOCUMENTS

GARY A. BOUTON REGISTERED ENGINEER AGRICULTURE 07-10-2023 COMMERCE NO. 110882 STATE OF TENNESSEE

FLOOR PLAN

A1

HARDWARE SCHEDULE

GROUP #1 - EXTERIOR EGRESS DOOR

QTY.	DESCRIPTION	NUMBER - FINISH
3	HINGES	MCKINNEY T4A3386 NRP- US32D
1	EXIT DEVICE	DETEX V40EBX EXIT TRIM Ø3AN 628
1	MORTISE CYLINDER	YALE K620 1 ¼" MK - 626
1	RIM CYLINDER	YALE K640 MK - 626
2	CYLINDER CORE	YALE K600 CMK - 626
1	SURFACE CLOSER	NORTON RP8501 - 689
1	KICK PLATE	ROCKWOOD K1050 12"H. x 2" LDW B4E CSK - US32D
1	THRESHOLD	PEMKO 171A
1	SWEEP	PEMKO 315CN
1	RAIN DRIP	PEMKO 346C
1	GASKETING	PEMKO 303AS
1	DOOR VIEWER	ROCKWOOD 622

GROUP #2 - TOILET ROOMS

QTY.	DESCRIPTION	NUMBER - FINISH
3	HINGES	MCKINNEY TA2714 - US26D
1	PRIVACY SET	YALE PB 4601LN - 626
1	WALL STOP	ROCKWOOD 409 - US32D

GROUP #3 - ALUMINUM STOREFRONT DOORS

QTY.	DESCRIPTION	NUMBER - FINISH
1	CONTINUOUS GEARED HINGE	PEMKO CFM 9LF-HD1
1	MORTISE DEADLOCK	ADAMS RITE MS1850SN - 628
1	MORTISE CYLINDER	YALE K620 1 1/4" MK - 626
1	CYLINDER CORE	YALE K600 CMK - 626
1	CYLINDER T-TURN	ADAMS RITE 4066 - 130
1	DOOR PULL	ROCKWOOD BF151 MTG-TYPE IHD - US32D
1	PUSH BAR	ROCKWOOD T41 MTG-TYPE 3 - US32D
1	SURFACE CLOSER	NORTON UNI3501 - 689
1	FLOOR STOP	ROCKWOOD 480H EXP - US26D
1	THRESHOLD	PEMKO 271A
1	DOOR SWEEP	PEMKO 315CN
1	GASKETING	BY DOOR MANUFACTURER
1	RAIN GUARD	PEMKO 346C
1	DECAL	ROCKWOOD 660

GROUP #4 - RECEIVING DOOR

QTY.	DESCRIPTION	NUMBER - FINISH
8	HINGES	MCKINNEY T4A3386 NRP - US32D
2	FLUSH BOLT	ROCKWOOD 555 (12"-24" AS REQ'D) - US26D
1	DUST PROOF STRIKE	ROCKWOOD 570 - US26D
1	ALARM RIM EXIT DEVICE (ACTIVE LEAF)	DETEX V40EXT TRIM Ø3AN EB - 628
1	MORTISE CYLINDER	YALE K620 1 ¼" MK - 626
2	CYLINDER CORE	YALE K600 CMK - 626
1	RIM CYLINDER	YALE K640 MK - 626
2	SURFACE CLOSER	NORTON RP8501H - 689
2	KICK PLATE	ROCKWOOD K1050 12"Hx1" LDW B4E CSK - US32D
2	FLOOR STOP	ROCKWOOD 480H EXP - US26D
1	THRESHOLD	PEMKO 181 (2"xL) ALUM. PLATE
1	GASKETING	PEMKO 303AS
2	DOOR SWEEP	PEMKO 315 CN
1	RAIN GUARD	PEMKO 346C
1	ASTRAGAL	PEMKO 351SP
1	DOUBLE DOOR STRIKE	DETEX 94
1	VIEWER	ROCKWOOD 622 - DCRM

GROUP #5 - TRASH ENCLOSURE DOOR

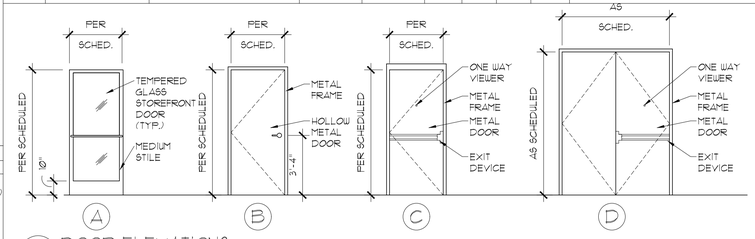
QTY.	DESCRIPTION	NUMBER - FINISH
4	HINGE	180° INDUSTRIAL HINGE - PRESSED STEEL W/ U-BOLTS TO ACCEPT BOTH 6" I 2" STEEL POSTS OR APPROVED EQUAL
2	CANE BOLT	RICHARD WILCOX 05240D001 - BLK
2	BOU HANDLE PULL	RICHARD WILCOX 0071.0000I 6.5"-BLK
1	HASP	RICHARD WILCOX 0181.0000301C 3" TH.
1	PADLOCK	FALCON 955-2 FIC - 606
1	CYLINDER CORE	(hardware number to be determined)

NOTES

1. ALL DOOR HARDWARE SHALL BE SATIN NICKEL FINISH OR BRUSHED ALUM. FINISH.
2. 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 5LBF. NO THUMB TURN PERMITTED.
3. AUDIBLE DETEX (V40) AT ALL SECONDARY EGRESS DOORS
4. ALL HARDWARE LISTED AS BASIS OF DESIGN. SUBSTITUTES WILL BE CONSIDERED ONLY WITH PRIOR AUTHORIZATION AS AN EQUAL TO SPECIFIED HARDWARE.
5. FLOOR STOPS IN VESTIBULE SHALL BE LOCATED TO PREVENT DOORS FROM HITTING ADJACENT GLAZING.
6. THUMB TURN IS PERMITTED IF THE FOLLOWING SIGNAGE IS PROVIDED MIN 1" LETTERS STATING "THIS DOOR SHALL REMAIN UNLOCKED DURING BUSINESS HOURS"
7. AAP WILL REPLACE THE CYLINDER CORES AT TIME OF BUILDING TURNOVER.
8. DOOR TO BE A MAX 5 LBF MAX OPENING FORCE AND CLOSING SPEED FROM 90 DEG TO 12 DEG NOT FASTER THEN 5 SECONDS.
9. G.C. TO ENSURE THAT THE THRESHOLD DOES NOT EXCEED 1/2" FROM EITHER SIDE.

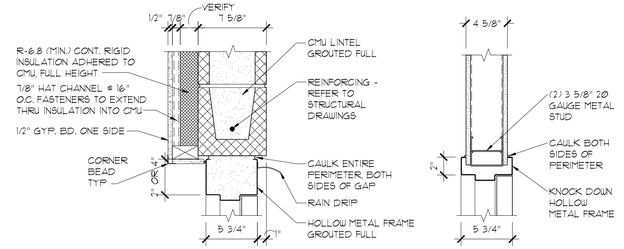
DOOR SCHEDULE

DOOR #	DOOR LOCATION	DOOR SIZE	MATERIAL: DOOR	MATERIAL: FRAME	DOOR ELEV.	FRAME: HEAD	FRAME: JAMB	HARD-WARE	NOTES
101	STOREFRONT	3'-0" X 7'-0" X 1 3/4"	AL.	AL.	A	-	-	3	FRAME BY DOOR MFR. / VAP STANDARD CLEAR / PROVIDE FULLY ACCESSIBLE HARDWARE
101A	NOT USED								
101B	SALES	3'-0" X 7'-0" X 1 3/4"	H.M.	WELDED H.M.	C	3/42	3/42	1	STEELCRAFT L1B SERIES 36 - POLYURETHANE INSULATED DOORS
102	WOMEN'S RESTROOM	3'-0" X 7'-0" X 1 3/4"	H.M.	K.D. H.M.	B	4/42	4/42	2	UNDERCUT DOOR 1" FOR EXHAUST AIR MAKE-UP
103	MEN'S RESTROOM	3'-0" X 7'-0" X 1 3/4"	H.M.	K.D. H.M.	B	4/42	4/42	2	UNDERCUT DOOR 1" FOR EXHAUST AIR MAKE-UP
104	STAGING	(2) 3'-0" X 8'-0" X 1 3/4"	H.M.	WELDED H.M.	D	3/42	3/42	4	STEELCRAFT L1B SERIES 36 - POLYURETHANE INSULATED DOORS
-	TRASH ENCLOSURE	-	WD.	STL.	-	-	-	5	REFER TO CIVIL DRAWINGS



1/A2 DOOR ELEVATIONS — SCALE: 1/4"=1'-0"

PAINT INSIDE OF EXTERIOR DOORS AND FRAMES 1P-2



3/A2 JAMB/HEAD DETAIL — SCALE: 1 1/2"=1'-0"

4/A2 JAMB /HEAD DETAIL — SCALE: 1 1/2"=1'-0"

ACCESSORY SCHEDULE

LABEL	DESCRIPTION
A	ADA COMPLIANT TOILET TISSUE DISPENSER
B	ADA COMPLIANT PAPER TOWEL DISPENSER
C	MIRROR, 18"X36" W/METAL RIM
D	ADA COMPLIANT "MEN" RESTROOM SIGN SEE DETAIL 19/A2.
E	ADA COMPLIANT "WOMEN" RESTROOM SIGN SEE DETAIL 19/A2.
F	ADA COMPLIANT "EMERGENCY EYE WASH" SIGN
G	GRAB BAR, (2) ASI 3501x36 (2) ASI 3501x42 (2) ASI 3501x18
H	BRADLEY WALL MTD. EMERGENCY EYEWASH 8918-921 WITH 8918-399 WASTE CART. REFER TO RESPONSIBILITY MATRIX FOR ORDERING INFORMATION. G.C. REQ'D TO INITIALLY SET UP EYE WASH PER MANUFACTURERS RECOMMENDATIONS AND TO PROVIDE SOLUTION FOR 1 YEAR. REFER TO PLUMBING DRAWINGS.
I	SOAP DISPENSER
J	BABY CHANGING STATION, KOALA KARE KB200-05, COLOR "WHITE GRANITE", SURFACE MOUNTED. SEE BLOCKING DETAIL 18/A2
K	SANITARY NAPKIN DISPOSAL B-270, SURFACE MOUNTED (WOMEN'S ROOM ONLY.
B (ALT)	ADA COMPLIANT RECESSED PAPER TOWEL DISPENSER PROVIDED AND INSTALLED BY G.C. BOBRICK B-35903

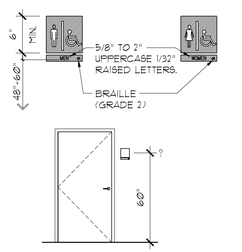
NOTES

1. TOILET TISSUE DISPENSER, PAPER TOWEL DISPENSER AND SOAP DISPENSER: FURNISHED BY AAP AND INSTALLED BY G.C. REFER TO RESPONSIBILITY MATRIX FOR ORDERING INFORMATION.
2. TOILET ACCESSORIES FURNISHED AND INSTALLED BY G.C.

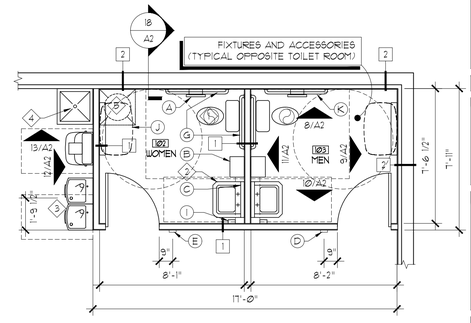
KEY NOTES:

1. WATER CLOSET, REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
2. WALL MOUNTED LAVATORY, REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
3. BI-LEVEL DRINKING FOUNTAIN WITH CANE APRON, REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. PROVIDE CANE APRON ON HIGH FOUNTAIN. PROVIDE BLOCKING AS REQ'D AND INSTALL PER MANUFACTURES INSTRUCTIONS.
4. MOP SINK, MOUNT HOSE CLIP 4" ABOVE MOP SINK BASIN CENTERED ON THE FAUCET. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
5. WATER HEATER ABOVE, REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
6. 4" VINYL BASE, REFER TO MATERIAL SCHEDULE ON SHEET A1 FOR ADDITIONAL INFORMATION.
7. PLUMBING CONTRACTOR TO PROVIDE ADA PIPE WRAP AS SPECIFIED ON ALL EXPOSED PLUMBING SUPPLY AND DRAIN LINES BELOW LAVATORY. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
8. NOT USED
9. CONTINUOUS 2x8 BLOCKING
10. FLUSH VALVE HANDLE SHALL BE MOUNTED ON WIDE SIDE OF TOILET AREA. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
11. PROVIDE MOISTURE RESISTANT PAINTED, GYPSUM WALL BOARD AT ALL RESTROOM, CLEANING, AND EWC WALLS.
12. FRP. REFER TO MATERIAL SCHEDULE FOR ADDITIONAL INFORMATION.
13. MOP HANGER SUPPLIED BY AAP AND INSTALLED BY G.C. MOUNTED @ 60" AFF. NOTHING ELSE TO BE MOUNTED ON THIS WALL UP TO 84" ABOVE THE MOP SINK.

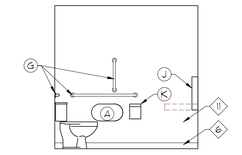
COLOR OF SYMBOL: THE SYMBOL SPECIFIED ABOVE SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND AND SHALL A NON-GLARE FINISH. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARDS 595B.



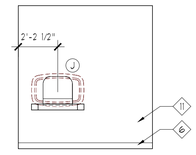
19/A2 SIGN ELEVATION — SCALE: 1/4"=1'-0"



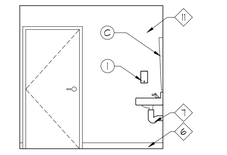
1/A2 ENLARGED TOILET ROOM PLAN — SCALE: 1/4"=1'-0"



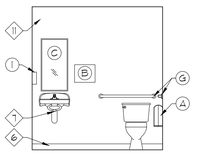
8/A2 INTERIOR ELEVATION — SCALE: 1/4"=1'-0"



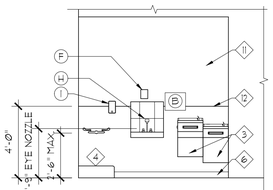
9/A2 INTERIOR ELEVATION — SCALE: 1/4"=1'-0"



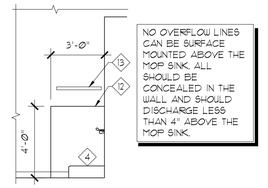
10/A2 INTERIOR ELEVATION — SCALE: 1/4"=1'-0"



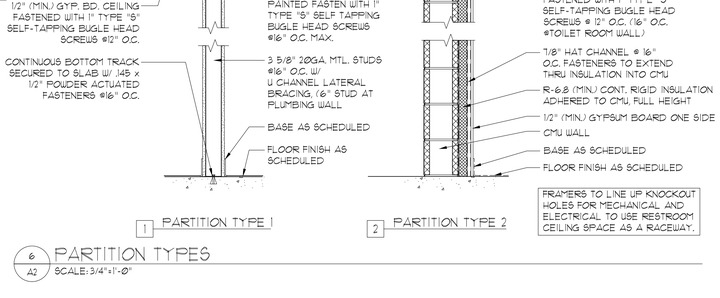
11/A2 INTERIOR ELEVATION — SCALE: 1/4"=1'-0"



12/A2 INTERIOR ELEVATION — SCALE: 1/4"=1'-0"



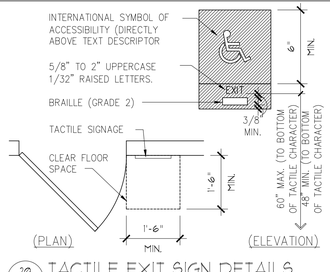
13/A2 INTERIOR ELEVATION — SCALE: 1/4"=1'-0"



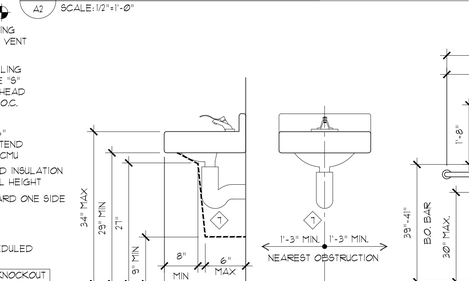
1 PARTITION TYPE 1

2 PARTITION TYPE 2

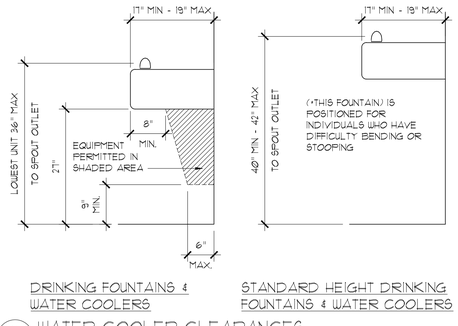
6/A2 PARTITION TYPES — SCALE: 3/4"=1'-0"



20/A1 TACTILE EXIT SIGN DETAILS — SCALE: 1/2"=1'-0"



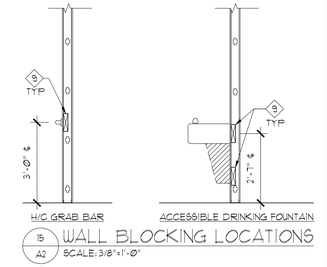
21/A2 ADA ACCESSIBILITY HEIGHTS — SCALE: 1/2"=1'-0"



DRINKING FOUNTAINS & WATER COOLERS

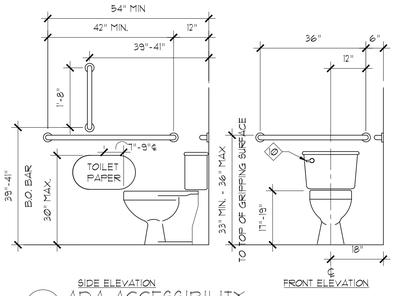
STANDARD HEIGHT DRINKING FOUNTAINS & WATER COOLERS

14/A2 WATER COOLER CLEARANCES — SCALE: 3/4"=1'-0"

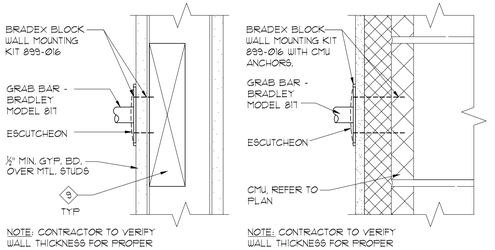


15/A2 WALL BLOCKING LOCATIONS — SCALE: 3/8"=1'-0"

16/A2 H/C LAVATORY CLEARANCES — SCALE: 3/4"=1'-0"



17/A2 ADA ACCESSIBILITY — SCALE: 1/2"=1'-0"



18/A2 GRAB BAR CONNECTION DETAIL — SCALE: 3" = 1'-0"

GENERAL NOTES

INTERNATIONALS SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS.

MOUNTING LOCATION AND HEIGHT: SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF DOOR. MOUNTING HEIGHT PER ELEVATION DETAIL ABOVE THE FINISH FLOOR. MOUNTING LOCATION PER PLAN DETAIL.

COLOR OF SYMBOL: THE SYMBOL SPECIFIED ABOVE SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND AND SHALL A NON-GLARE FINISH. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARDS 595B

BRAILLE: CONTRACTED GRADE 2 BRAILLE. DOTS SHALL BE 1/10 INCH ON CENTERS IN EACH CELL WITH 2/10 INCH SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELLS TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MIN. OF 1/40 INCH ABOVE THE BACKGROUND.

J&S Construction Co. Inc.
1843 Foreman Drive
Cookeville, TN. 38501
931-528-7475
jsconstruction.com

sparrow Ventures
931-261-7006

BOUTON ENGINEERING
Structural + Civil Consulting
BOUTON ENGINEERING
420 N. Washington Ave., Suite 7
Cookeville, TN 38501
boutonconsult.com

A New Store for
Advance Auto Parts *Store # 17061*
2056 Genesis Road *(Genesis Rd & Interstate Dr Lot #2)*
Crossville, TN 38555

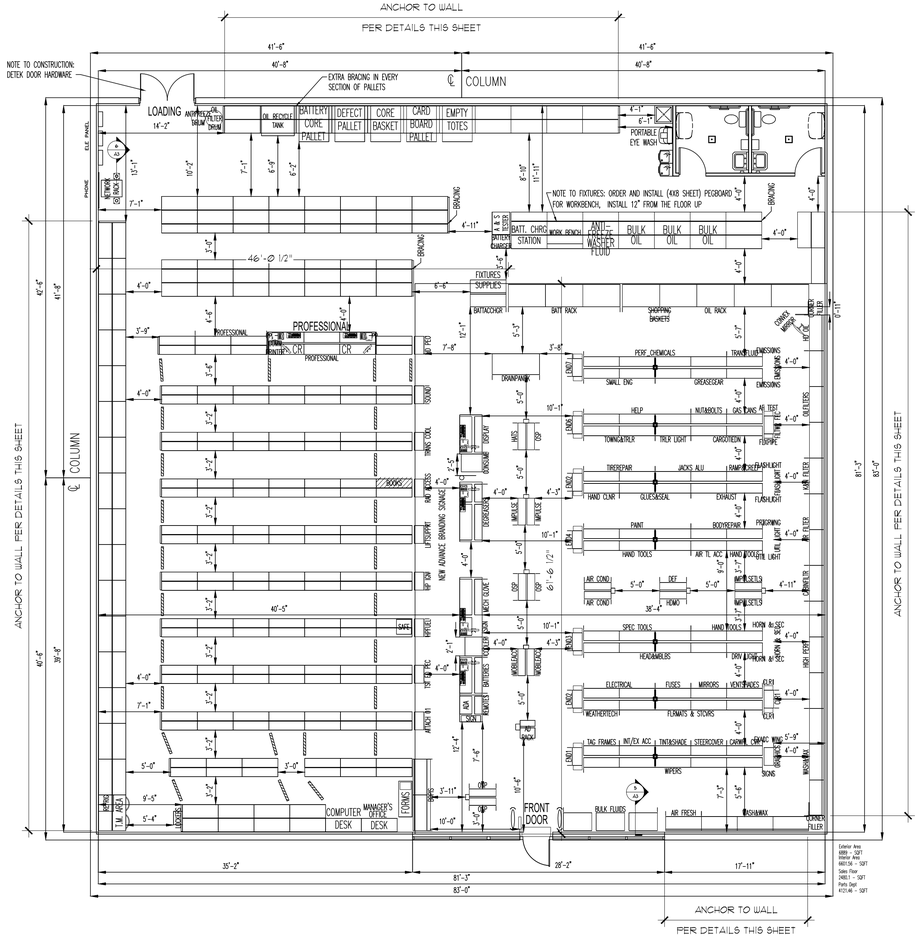
REV	DATE	DESCRIPTION
		REVISIONS

Project Number	23-81
Date:	07-10-2023
Drawn by:	J DORRIS
Checked by:	G BOUTON
	CONSTRUCTION DOCUMENTS

GARY A. BOUTON — REGISTERED ENGINEER — AGRICULTURE — 07-10-2023 — COMMERCE — No. 110882 — STATE OF TENNESSEE

SCHEDULES & DETAILS

A2



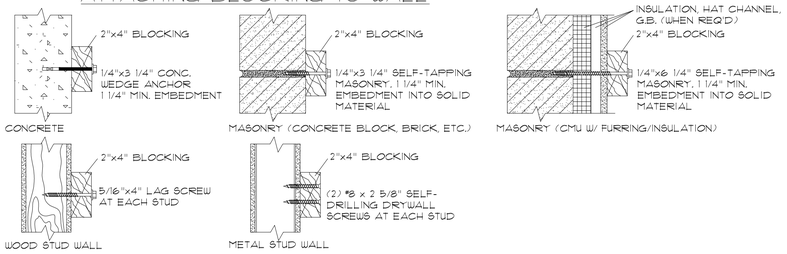
FIXTURE INFORMATION	
DESCRIPTION	PROPOSED
PARTS UPRIGHT HEIGHT	120 / 144

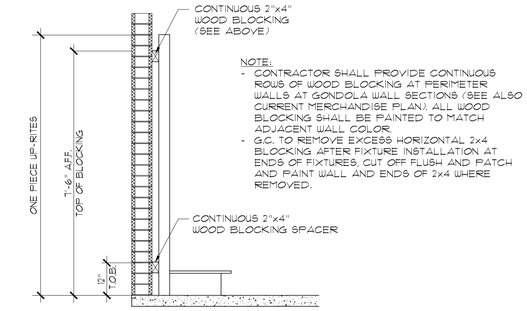
NOTE:
SHELVES ARE NOT CONSIDERED HIGH PILED STORAGE AS THEY DO NOT EXCEED 10'-0"

1 / A3 MERCHANDISE PLAN
SCALE: 1/8" = 1'-0" DATE: 04/11/23

TRUE NORTH

ATTACHING BLOCKING TO WALL

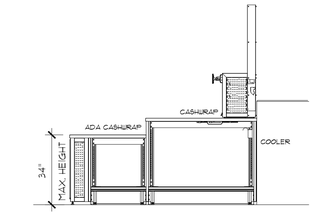




NOTE:
- CONTRACTOR SHALL PROVIDE CONTINUOUS ROWS OF WOOD BLOCKING AT PERIMETER WALLS AT GONDOLA WALL SECTIONS (SEE ALSO CURRENT MERCHANDISE PLAN). ALL WOOD BLOCKING SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR.
- G.C. TO REMOVE EXCESS HORIZONTAL 2x4 BLOCKING AFTER FIXTURE INSTALLATION AT ENDS OF FIXTURES, CUT OFF FLUSH AND PATCH AND PAINT WALL AND ENDS OF 2x4 WHERE REMOVED.

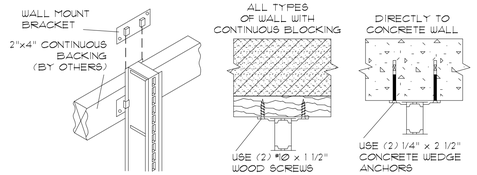
NOTE: ALL FASTENERS SHOWN ARE MINIMUM DIAMETER AND LENGTH FOR APPLICATIONS ILLUSTRATED.

3 / A3 BLOCKING AT WALL SECTION
SCALE: N.T.S.

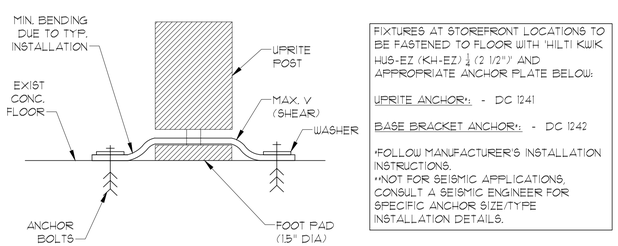


FOR REFERENCE ONLY

2 / A3 ADA COUNTER ELEVATION
SCALE: 3/8" = 1'-0"



4 / A3 FIXTURE ANCHORING AT WALL SECTION
SCALE: N.T.S.

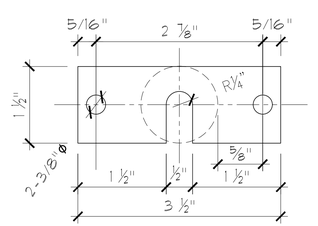


FIXTURES AT STOREFRONT LOCATIONS TO BE FASTENED TO FLOOR WITH HILTI KWIK HUS-EZ (KH-EZ) 3/8 (2 1/2") AND APPROPRIATE ANCHOR PLATE BELOW:

UPRITE ANCHOR*: - DC 1241

BASE BRACKET ANCHOR*: - DC 1242

*FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.
**NOT FOR SEISMIC APPLICATIONS, CONSULT A SEISMIC ENGINEER FOR SPECIFIC ANCHOR SIZE/TYPE INSTALLATION DETAILS.

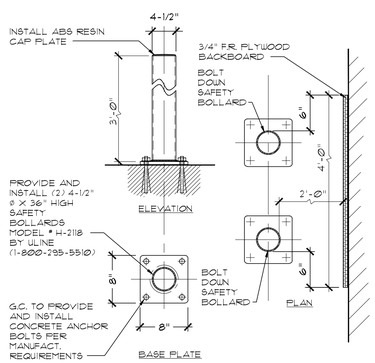


INSTALL BASE PLATES IN OPPOSING DIRECTIONS PER MANUFACTURER INSTRUCTIONS.

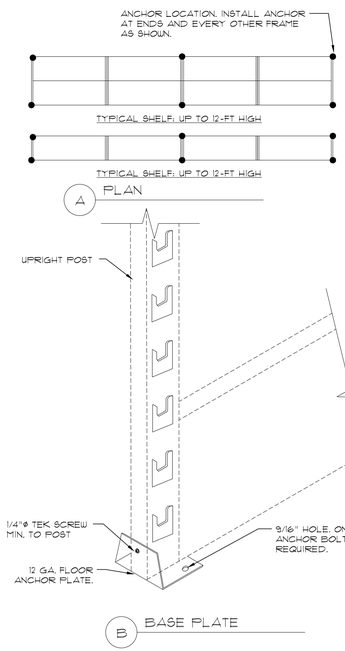
ANCHOR PLATE SHEAR CHECK:
MATL: 12 GA. CRS; Fy = 38,000 psi
t=0.1046" (MIN.)

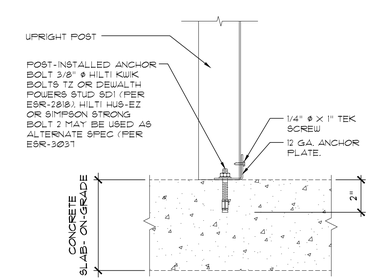
AREA = 0.1046 (1.5") = 0.1569 SQ. IN
ALLOW. V @ CTR = 0.4 * AREA * Fy
= 0.4 (0.1569) 38000
= 2385 LBS
ALLOW. V MAX. UPLIFT LOADS OK

5 / A3 ANCHORING AT STOREFRONT
SCALE: N.T.S.



6 / A3 SAFETY BOLLARD DETAIL
SCALE: 1" = 1'-0"





RACKING GENERAL NOTES:
1. ALL CONSTRUCTION SHALL COMPLY WITH THE CURRENT INTERNATIONAL BUILDING CODE, ASCE 7-10, 2012 RMI-MH16.1 AND ALL APPLICABLE ORDINANCES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS BEFORE STARTING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
3. STEEL FOR ALL SHAPES IS FY = 50 KSI (EXCEPT AS NOTED).
4. ALL ANCHORS ARE HILTI KWIK BOLT TZ (ESR 1917) OR HUS-EZ (ESR-3027/3056).
5. EXISTING CONCRETE SLAB - MIN. 4" THICK SLAB-ON-GRADE WITH F'c - 2500 PSI AND 500 PSF SOIL BEARING PRESSURE.
6. SHELVING CAPACITY = 150 PSF PER UNIT, EVENLY DISTRIBUTED TO EACH SHELF OVER UNIT (MAXIMUM 14 SHELVES PER UNIT, MINIMUM 5 SHELVES PER UNIT.) (NOTE: 5-8 SHELVES SHALL BE LIMITED TO 125 PSF OVER ENTIRE UNIT.)
7. ALL SHELVING INSTALLATIONS AND SHELVING MANUFACTURED IN CONFORMITY WITH THIS STANDARD SHALL DISPLAY IN ONE OR MORE CONSPICUOUS LOCATIONS A PERMANENT PLAQUE, EACH NOT LESS THAN 50 SQUARE INCHES IN AREA SHOWING THE MAXIMUM PERMISSIBLE UNIT LOAD.
8. ALL SHELVING SHALL BE IN COMPLIANCE WITH THE RMI.
9. THE CLEAR SPACE BELOW SPRINKLERS SHALL A MINIMUM OF 18 INCHES BETWEEN THE TOP OF THE STORED MATERIAL AND THE CEILING SPRINKLERS DEFLECTORS.
10. THE BACK OF HOUSE SHELVING RACKS WILL NOT BE OPEN TO PUBLIC.
11. SHELVING UNIT'S MAXIMUM "OUT-OF-PLUMBNESS" SHALL BE 0.59 INCH IN 10FT.
12. SHELVING SHALL BE INSTALLED AND CONSTRUCTED PER MANUFACTURER'S INSTALLATION GUIDELINES.
13. RACKING HEIGHT-TO-DEPTH RATION NOT TO EXCEED 6 TO 1
14. APPLICABLE ONLY TO NON-SEISMIC UP TO 12-FT HIGH TO TOP LOAD ON SHELVING
15. ADDITIONAL REQUIREMENT BY LOCAL AHJ SUPERCEDES THESE DETAIL

8 / A3Ø SHELVING ANCHORING DETAILS - NON SEISMIC ONLY AND @ BOPIS FIXTURES
SCALE: 1" = 1'-0"

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A New Store for
Advance Auto Parts Store # 17061
2056 Genesis Road (Genesis Rd & Interstate Dr Lot #2)
Crossville, TN 38555

REVISIONS			
REV	DATE	DESCRIPTION	

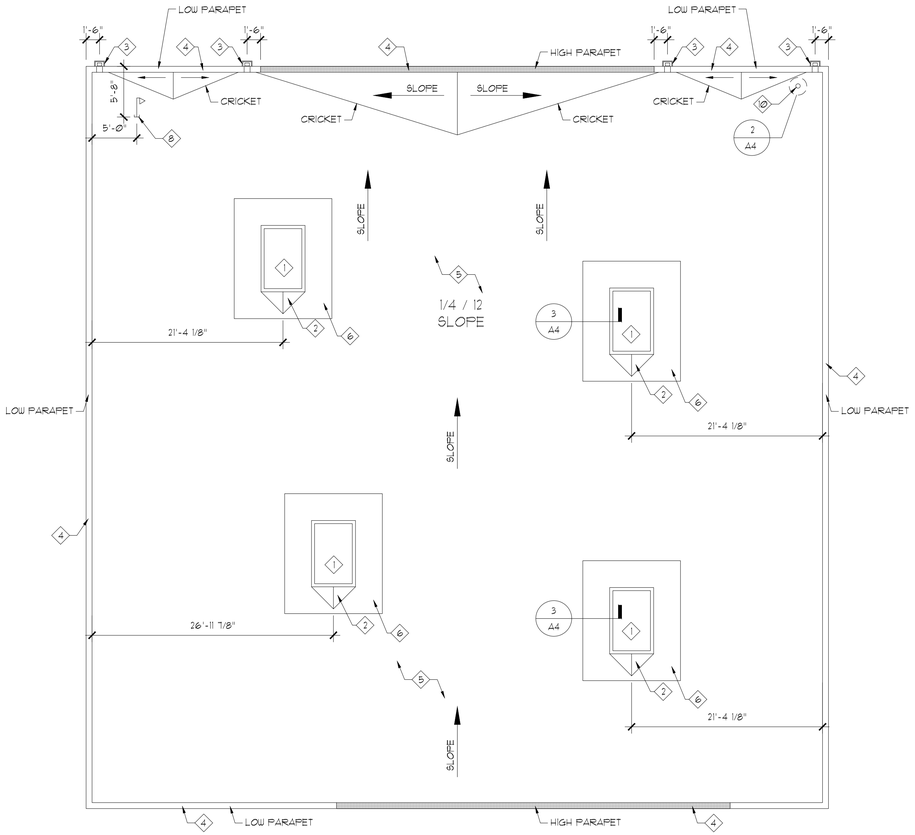
Project Number	23-81
Date:	07-10-2023
Drawn by:	J DORRIS
Checked by:	G BOUTON

CONSTRUCTION DOCUMENTS

GARY A. BOUTON REGISTERED ENGINEER AGRICULTURE 07-10 2023 COMMERCE No. 110892 STATE OF TENNESSEE

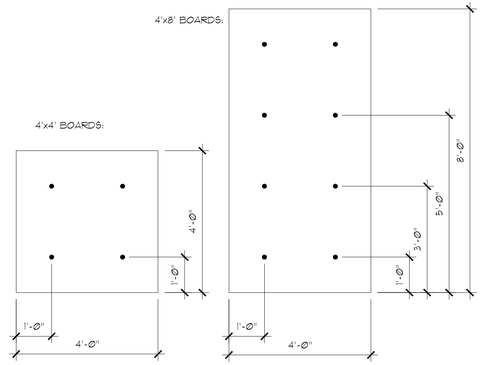
MERCHANDISE PLAN

A3

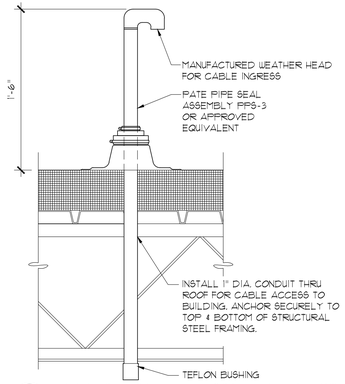


1/A4 ROOF PLAN
SCALE: 1/8" = 1'-Ø"

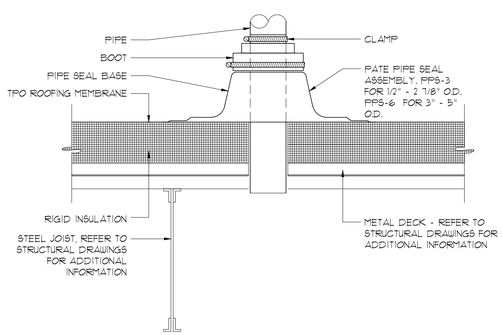
TRUE NORTH



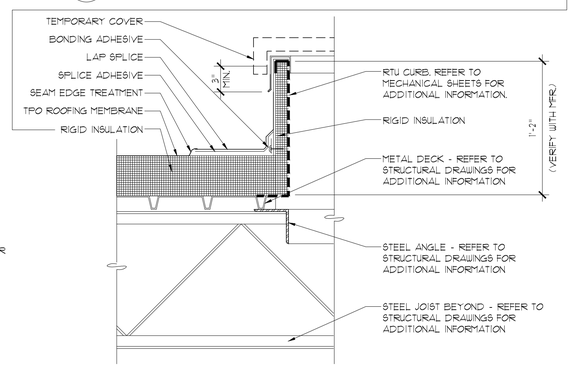
6/A4 INSULATION FASTENING DIAGRAM
SCALE: 1/2"=1'-Ø"



5/A4 CELL TOWER BOOSTER CONDUIT DETAIL
SCALE: 1 1/2"=1'-Ø"



2/A4 PIPE FLASHING DETAIL
SCALE: 1 1/2"=1'-Ø"



3/A4 HVAC ROOF CURB DETAIL
SCALE: 1 1/2"=1'-Ø"

ROOF PLAN KEY NOTES:

1. RTU. REFER TO MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.
2. BUILT-UP CRICKET W/MIN. 1/2" PER FOOT SLOPE.
3. SCUPPERS, CONDUCTOR HEADS AND 4"x6" METAL DOWNSPOUTS PREFINISHED TO MATCH A1. PROVIDE SAMPLE TO CM PRIOR TO ORDERING.
4. PRE-FINISHED METAL COPING. REFER TO SHEETS A7.1AB FOR ADDITIONAL INFORMATION.
5. MEMBRANE ROOFING
6. WALK AREA MEMBRANE, REFER TO ROOFING MANUFACTURER'S SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. NOT USED
8. SATELLITE WEATHER HEAD PENETRATION, REFER TO DETAIL 5/A4.
9. NOT USED
10. PLUMBING VENT RE: PLUMBING DRAWINGS

ROOF PLAN GENERAL NOTES:

1. ROOFING MEMBRANE SYSTEM: 60 MIL ULTRAPLY TPO WHITE MECHANICALLY FASTENED TO DECK OVER R-30 (MIN.) CONTINUOUS RIGID POLYISOCYANURATE INSULATION.
2. ROOFING SYSTEM TO HAVE A TOTAL SYSTEMS NO DOLLAR LIMIT WARRANTY FOR FIFTEEN (15) YEARS FROM DATE OF SUBSTANTIAL COMPLETION. WARRANTY SHALL BE DELIVERED TO ADVANCE AUTO PARTS CONSTRUCTION PROJECT MANAGER.
3. ROOFING SYSTEM TO BE INSTALLED BY A QUALIFIED CONTRACTOR/INSTALLER, APPROVED BY MANUFACTURER TO INSTALL MANUFACTURER'S PRODUCTS.
4. ROOFING SYSTEM TO BE INSTALLED IN STRICT ACCORDANCE WITH THE ROOFING SYSTEM MANUFACTURER'S WRITTEN TECHNICAL SPECIFICATIONS
5. ANY DEVIATION OR CHANGES TO THE ROOFING SPECIFICATIONS WITHOUT WRITTEN APPROVAL OF THE ROOFING SYSTEM MANUFACTURER ARE NOT ALLOWED. A PRE-INSTALLED NOTICE SHALL BE PROVIDED TO THE AAP CONSTRUCTION PROJECT MANAGER PRIOR TO CONSTRUCTION.
6. COMPONENTS FOR THE ROOFING SYSTEM TO BE OBTAINED FROM AN APPROVED ROOFING SYSTEM MANUFACTURER (AS LISTED.)
7. APPROVED ROOFING SYSTEM MANUFACTURERS ARE ONLY AS FOLLOWS:
   - A. ELEVATE
     26 CENTURY BLVD. - SUITE 205
     NASHVILLE, TN 37214
     PHONE: VISIT WEB SITE FOR SALES REP IN YOUR AREA.
     HTTPS://WWW.HOLCIMELEVATE.COM/US-EN
   - B. JOHNS MANVILLE
     717 17TH ST.
     DENVER, CO 80202
     PHONE: 303-978-2000
   - C. GAF
     1 CAMPUS DRIVE
     PARSIPPANY, NJ 07054
     PHONE: 973-628-3000
8. SELECTED ROOFING CONTRACTOR TO PROVIDE LAYOUT AND FASTENING DRAWINGS AS REQUIRED BY GOVERNING JURISDICTION (LOCAL BUILDING DEPARTMENT).
9. ROOFING CONTRACTOR SHALL PROVIDE A PRE-INSTALLATION NOTICE TO THE AAP PROJECT MANAGER AND THE GENERAL CONTRACTOR.
10. ROOFING INSTALLATION IS TO MEET MINIMUM FM 1-90 REQUIREMENTS.
11. REFER TO FRAMING (STEEL) PLAN FOR ACTUAL SLOPES.
12. SCUPPERS, COLLECTOR BOXES AND DOWNSPOUTS PREFINISHED TO MATCH A1. PROVIDE SAMPLE TO CM PRIOR TO ORDERING.

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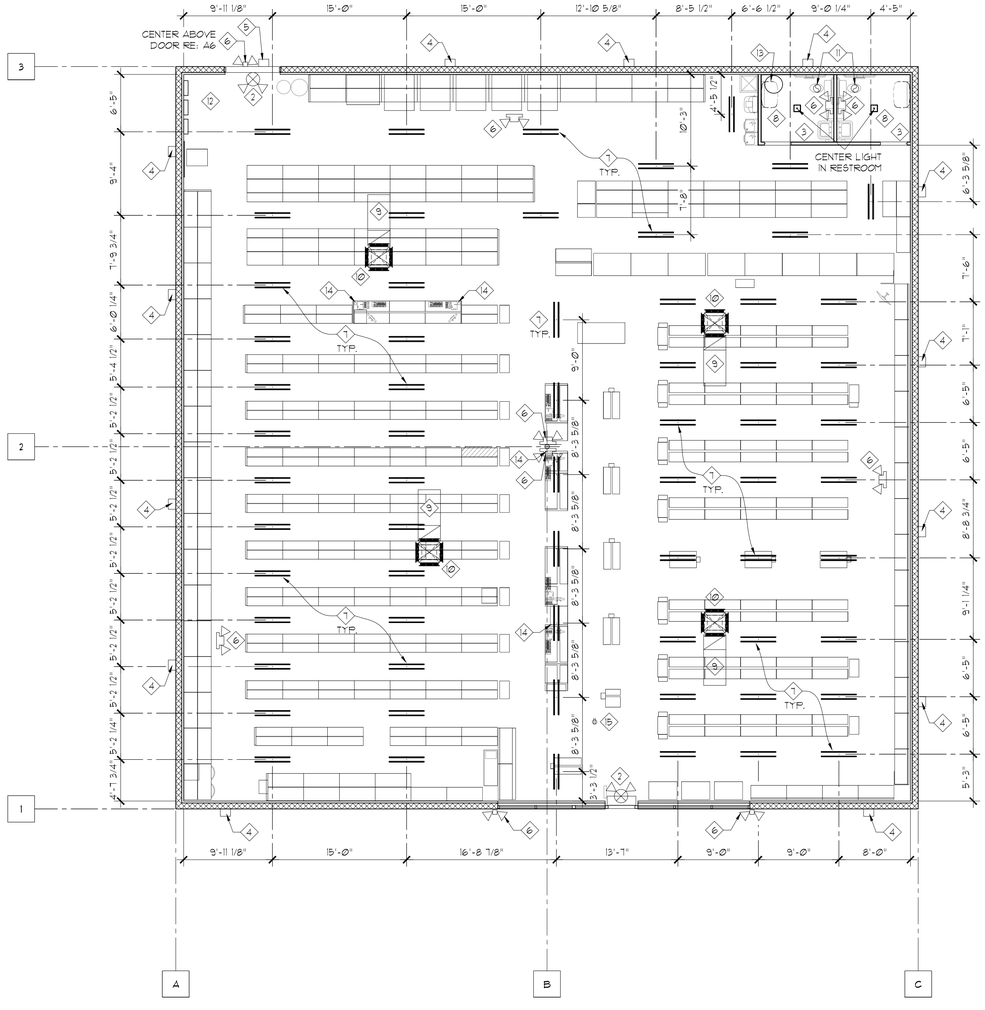
GARY A. BOUTON
REGISTERED ENGINEER
AGRICULTURE
07-10 2023
COMMERCE
No. 110883
STATE OF TENNESSEE

ROOF PLAN

A4



1 A5 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-Ø"

TRUE NORTH

MOUNTING HEIGHT OF LIGHTING TO BE 14'-Ø" AFF DIMENSIONS ARE TO CENTERLINE OF FIXTURES. MAINTAIN MINIMUM 24" CLEAR SPACE ABOVE STORE FIXTURE HEIGHT TO NEAREST OVERHEAD UTILITY I.E. SPRINKLERS, PLUMBING, CONDUITS, ETC..

***NOTE:

ELECTRICAL CONTRACTOR TO RUN POWER TO CASHWRAPS AFTER CASHWRAPS ARE SET.

ELECTRICAL CONTRACTOR TO PLACE OIL/BATTERY LIGHTING AFTER RACK IS SET.

ELECTRICAL CONTRACTOR TO ADD 5'-Ø" WHIPS ON ALL LIGHT FIXTURES. WHIP SHOULD BE IN A VERTICAL COIL TIED OFF TO THE PANEL POINTS OF THE JOISTS. THE COIL SHOULD BE UNIFORM AND IN THE SAME LOCATION RELATIVE TO THE OTHER LIGHT FIXTURES IN THAT ROW.

GENERAL NOTES:

1. ALL ITEMS TO BE SUSPENDED (SUSPENDED CEILING, ELECTRICAL EQUIPMENT, MECHANICAL EQUIPMENT, PLUMBING EQUIPMENT, ETC.) SHALL BE SUSPENDED FROM THE STRUCTURE ABOVE. UNLESS SPECIFICALLY STATED OTHERWISE BY THE STRUCTURAL ENGINEER. VERIFY WITH ARCHITECT/ STRUCTURAL ENGINEER PRIOR TO HANGING FROM BOTTOM CORD. IF NO STRUCTURE IS AVAILBLE OVERHEAD FOR ATTACHMENT PROVIDE UNISTRUT SUPPORTS AS REQUIRED.
2. ALL OVERHEAD APPURTENANCES IN MAIN SALES TO BE PAINTED, EXCEPT LIGHT FIXTURES & INSULATION, AUDIO VISUAL AND FIRE PROTECTION DEVICES. DUCT WORK, CONDUITS, & GAS PIPING TO BE PAINTED. VERIFY SCOPE WITH AAP CONSTRUCTION MANAGER AT TIME OF BID.
3. ATTACH SUPPORTS FOR HANGING SIGNS TO STEEL JOIST BOTTOM CHORD AT PANEL POINTS.
4. PROVIDE HANGERS AT EACH END OF EACH LIGHT FIXTURE.
5. PAINT ALL INTERIOR GYPSUM BOARD CEILING, SOFFIT, BOTTOM AND BACK SIDES OF ALL SUSPENDED WALLS WHERE EXPOSED.
6. HORIZONTAL STRAIGHTENERS, 1 1/2" STEEL AND HANGER WIRE REQUIRED AT ALL SUSPENDED CURTAIN WALLS, IF APPLICABLE.
7. ALL METAL STUDS SHALL BE FASTENED TO RUNNERS WITH SELF TAPPING SCREWS.
8. CONTRACTOR TO COORDINATE LIGHT LOCATIONS WITH ALL ABOVE MECHANICAL EQUIPMENT. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
9. SUSPENDING LIGHT FIXTURE HEIGHTS ABOVE FINISH FLOOR MAY VARY AND WILL BE BASED ON EXISTING OVERHEAD CLEARANCES. VERIFY ALL HEIGHT VARIATIONS WITH AAP CM/ARCHITECT PRIOR TO INSTALLING FIXTURES. LIGHT FIXTURE PREFERRED HEIGHT IS 14'-Ø" AFF. MOUNT AS HIGH AS POSSIBLE ELSEWHERE NOT TO EXCEED 14'-Ø" AFF.

REFLECTED CEILING PLAN KEY NOTES:

1. NOT USED
2. EXIT SIGN / EMERGENCY LIGHT. REFER TO ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.
3. 1/2" GYPSUM BOARD CEILING IN TOILET ROOMS @ 8'-Ø" AFF.
4. SECURITY LIGHT - REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
5. WALL PACK LIGHT - CENTER OVER DOOR. REFER TO ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.
6. EMERGENCY LIGHT W/ BATTERY B.U. REFER TO ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION. WHERE FIXTURE OCCURS AT DOOR, CENTER OVER DOOR.
7. SUSPENDED LED LIGHT FIXTURE. ADD 5'-Ø" COILED WHIPS ON ALL MERCHANDISE AREA LIGHT FIXTURES. REFER TO ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.
8. SURFACE MOUNTED LED LIGHT FIXTURE. REFER TO ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.
9. RETURN AIR GRILLE. REFER TO MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.
10. HVAC PLENUM BOX. REFER TO MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.
11. TOILET ROOM EXHAUST FANS. REFER TO MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.
12. UNIT HEATER. REFER TO MECHANICAL SHEETS TO DETERMINE WHEN REQUIRED AND FOR ADDITIONAL INFORMATION.
13. WATER HEATER - REFER TO PLUMBING SHEETS FOR ADDITIONAL INFORMATION.
14. LOCATION OF 2" POWER AND DATA DROPS, ENSURE DROPS CLEAR ALL LIGHTING FIXTURES. REFER TO ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.
15. ELECTRICAL OUTLET FOR GREETER / SECURITY MONITOR. RE: ELECTRICAL SHEETS
16. NOT USED

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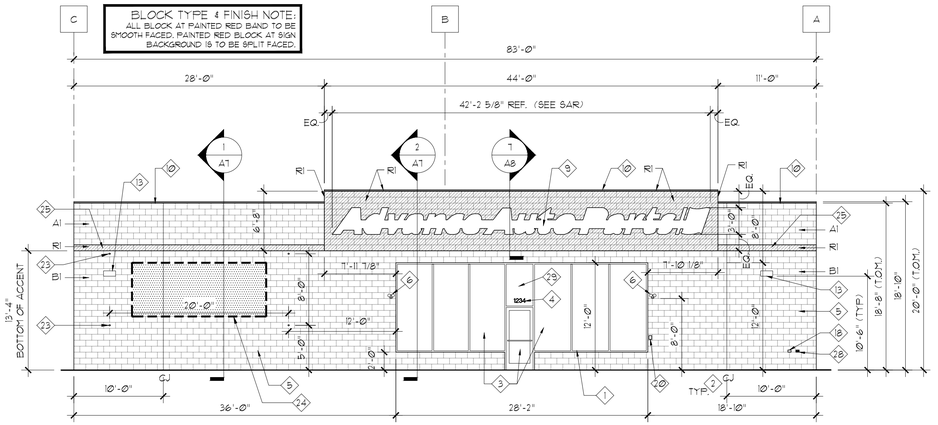
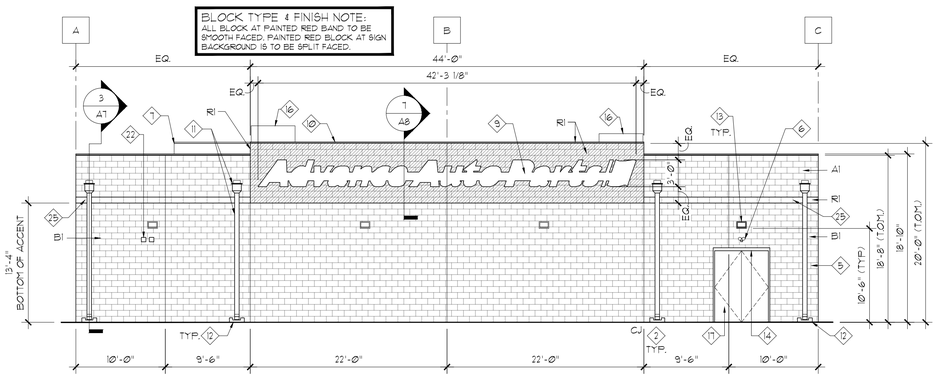
REFLECTED CEILING PLAN

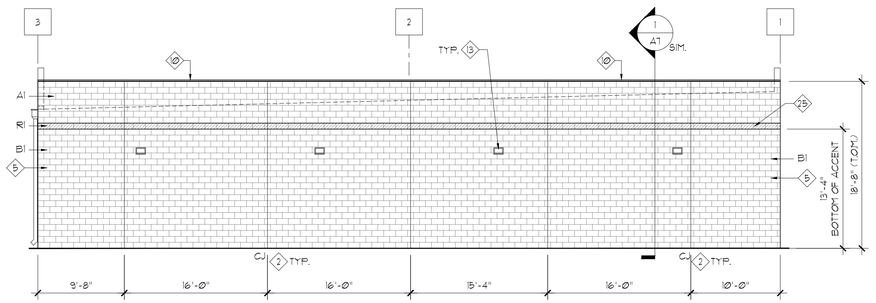
A5



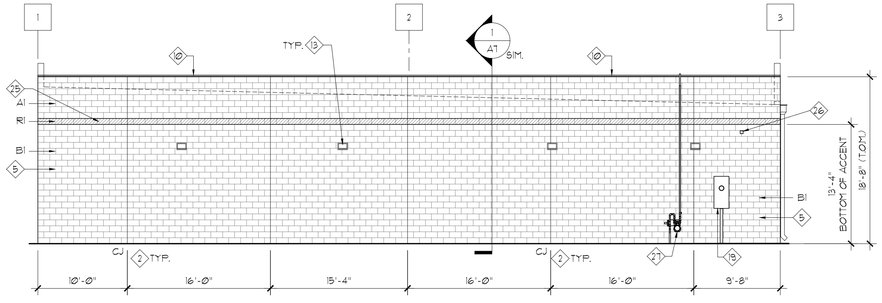
1 A6 FRONT (WEST) ELEVATION
SCALE: 1/8" = 1'-0"



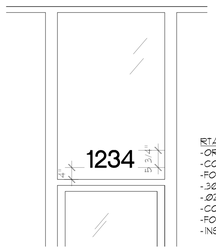
2 A6 REAR (EAST) ELEVATION
SCALE: 1/8" = 1'-0"



3 A6 LEFT (NORTH) ELEVATION
SCALE: 1/8" = 1'-0"



4 A6 RIGHT (SOUTH) ELEVATION
SCALE: 1/8" = 1'-0"



RTA VINYL
-ORACAL 651 WHITE, 2.5 MIL VINYL
-COLORS ARE WHITE ON BLACK
-FONT SIZE IS 5.75"
-.300" BLACK OUTLINE
-.Ø2" BLEED
-COMPRESSION NONE
-FONT IS STANDARD BOLD CONDENSED
-INSTALL 4" ABOVE DOOR FRAME

5 A6 ADDRESS DETAIL
SCALE: 1/2" = 1'-0"

EXTERIOR ELEVATION KEY NOTES:

1. PROVIDE OLDCASTLE SERIES 3000 CS 2" x 4 1/2" MULLION PROFILE, CENTER SET, EXTERIOR LOADED FLUSH GLAZE STOREFRONT SYSTEM WITH 1" CLEAR LOW 'E' INSULATED GLASS. STOREFRONT SYSTEM COLOR TO BE CLEAR ANODIZED ALUMINUM. REFER TO RESPONSIBILITY MATRIX FOR ADDITIONAL INFORMATION. NO SUBSTITUTIONS. SEALANT COLOR TO BE LIGHT GRAY.
2. MASONRY CONTROL JOINT. 20'-Ø" MAX. & 10'-Ø" COMBINED MAX. AT CORNER.
3. HATCH AREA REPRESENTS AREA OF TEMPERED GLAZING.
4. G.C. TO PROVIDE & INSTALL 5 3/4" VINYL WHITE ON BLACK ADDRESS NUMBERS BY MFR: FAST SIGNS' ON FRONT WINDOWS CENTERED OVER DOOR, BOTTOM EDGE OF NUMBER SHALL SET 4" ABOVE FRAME - REFER TO DETAIL 5/A6 FOR ADDITIONAL INFORMATION.
5. SPLIT FACE CMU - REFER TO MFR. PERFORMANCE SPECIFICATION(S) FOR INSTALLATION. REFER TO ELEVATIONS AND MATERIAL SCHEDULE FOR COLOR
6. EMERGENCY LIGHT, REFER TO ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.
7. LINE OF ROOF (BEYOND).
8. NOT USED
9. REFER TO ELECTRICAL DRAWINGS FOR SIGNAGE REQUIREMENTS. SIGNAGE IS PERMITTED SEPARATELY AND INSTALLED BY OTHERS. SIGNAGE IS SHOW FOR REFERENCE ONLY.
10. METAL COPING, PAINT TO MATCH ADJACENT CMU (TYP.).
11. SCUPPERS, CONDUCTOR HEADS AND DOWNSPOUTS PREFINISHED TO MATCH A1. PROVIDE SAMPLE TO CM PRIOR TO ORDERING
12. INSTALL 12"X24"X2 3/8" PRECAST CONCRETE SPLASH BLOCKS UNDER EACH DOWNSPOUT.
13. WALL MOUNTED LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. QUANTITIES AND LOCATION VARY PER SITE.
14. RAIN DEFLECTOR ATTACHED TO DOOR FRAME - REFER TO DOOR HARDWARE SCHEDULE.
15. NOT USED
16. ROOF TOP UNIT BEYOND - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
17. HOLLOW METAL DOOR AND FRAME PAINT TO MATCH COLOR OF ADJACENT WALL SURFACE.
18. ELECTRICAL OUTLET, REFER TO ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.
19. ELECTRICAL EQUIPMENT. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
20. KNOX BOX IF REQUIRED BY CODE. G.C. TO COORDINATE WITH FIRE MARSHAL FOR TYPE AND FINAL LOCATION.
21. NOT USED
22. EXHAUST FAN CAP- REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
23. INSTALL 4 - 1/2" ø GALVANIZED STEEL ANCHOR EYE BOLTS, EPOXY SET INTO MASONRY WALL FOR FUTURE SIGN BANNER.
24. 15'-Ø" X 6'-0" FUTURE SIGN BANNER
25. SMOOTH FACE CMU - REFER TO MFR. PERFORMANCE SPECIFICATION(S) FOR INSTALLATION. REFER TO ELEVATIONS AND MATERIAL SCHEDULE FOR COLOR
26. UNIT HEATER EXHAUST VENT CAP - PAINT TO MATCH EXISTING ADJACENT WALL. REFER TO MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.
27. GAS METER - PAINT TO MATCH EXISTING ADJACENT WALL. REFER TO MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.
28. WALL HYDRANT, REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
29. INSTALL SPANDREL PANEL TO CONCEAL AIR CURTAIN.

GENERAL NOTES:

1. ALL EXTERIOR SIGNS ARE PROVIDED AND INSTALLED BY ADVANCE AUTO PARTS. ALL ELECTRICAL CONNECTIONS ARE BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. ALL CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT CONCRETE, 7-⅝" X 7-⅝" X 15-⅝", WITH ⅜" MORTAR JOINTS, WITH TOTAL COURSE HEIGHT TO EQUAL 8", IN RUNNING BOND PATTERN.
3. PROVIDE TOOLED CONCAVE MORTAR JOINTS UNLESS NOTED OTHERWISE. MORTAR JOINTS ARE TO BE STRUCK AND BRUSHED.
4. ALL CONTROL, BUILDING AND EXPANSION JOINTS TO BE INSTALLED PER ASTM, CONCRETE AND/OR BRICK INDUSTRY STANDARDS AS APPLICABLE.
5. PROVIDE SEALANT AT ALL UNLIKE MATERIALS.

MATERIAL SCHEDULE

MATERIAL:	EXTERIOR PAINT:	LOCATION:
A1	AAP-A1, SYNCHRONICITY	EXTERIOR BLOCK WALLS, EIFS, STUCCO, METAL DOORS
B1	AAP-B1, WINTER COCOA	EXTERIOR BLOCK WALLS, EIFS, STUCCO, METAL DOORS
RI	ADVANCE AUTO PARTS RED	PRE-FINISHED METAL (FACTORY FINISH), STUCCO, EIFS, BLOCK - RED STRIPE AND SIGN
RAILS	BLACK	HANDRAILS (EXTERIOR PAINT ONLY)
SAFETY	SAFETY YELLOW	BOLLARDS, MANDATED SAFETY AREAS

EXTERIOR PAINTING 2020

*COLD WEATHER APPLICATION RECOMMENDATIONS ARE CURRENT.
** A SITE VISIT IS TO BE PERFORMED BY A PPG PAINT REPRESENTATIVE PRIOR TO FILLER OR PRIMER APPLICATION AND AFTER FINISH TO INSURE SOUND APPLICATION. REFER TO THE RESPONSIBILITY MATRIX FOR CONTACT INFORMATION**

1. BLOCK WALLS (SMOOTH AND SPLIT FACE)
   a. PRIME: 1 COAT SPEEDHIDE 6-15XI - NEW
      i. PREP:
         1. CONCRETE AND MORTAR MUST BE CURED AT LEAST 30 DAYS
         2. MAX MOISTURE 12%, MAX PH 9
         3. SURFACE MUST BE DRY AND FREE FROM LOOSE AND PEELING PAINT, DIRT, MILDEW, FORM OIL, CURING COMPOUNDS, LOOSE OR EXCESS MORTAR, MORTAR SPATTER, SALT DEPOSITS, AND OTHER SURFACE CONTAMINANTS. SOFT CRUMBLY SURFACE LAYERS OR PREVIOUS COATINGS SOFTENED BY WATER MUST BE COMPLETELY REMOVED. MORTAR SHOULD CURE FOR AT LEAST 30 DAYS AND PREFERABLY 90 DAYS PRIOR TO PRIMING.
   b. PRIME: 1 COAT SEAL GRIP® INTERIOR/EXTERIOR UNIVERSAL PRIMER/SEALER - REPAINT
      i. PREP:
         1. SURFACES TO BE COATED MUST BE DRY, CLEAN, SOUND, AND FREE FROM ALL CONTAMINATION INCLUDING LOOSE AND PEELING PAINT, DIRT, GREASE, OIL, WAX, CONCRETE CURING AGENTS AND BOND BREAKERS, CHALK, EFFLORESCENCE, MILDEW, RUST, PRODUCT FINES, AND DUST. REMOVE LOOSE PAINT, CHALK, AND EFFLORESCENCE BY WIRE BRUSHING, SCRAPING, SANDING, AND/OR PRESSURE WASHING. PUTTY ALL NAIL HOLES AND CAULK ALL CRACKS AND OPEN SEAMS. SAND ALL GLOSSY, ROUGH, AND PATCHED SURFACES.
   c. FINISH: 2 COATS SPEEDHIDE® EXTERIOR LATEX SATIN
2. PRE-FINISHED METAL (FACTORY FINISH) & METAL BACK DOOR FINISHES
   a. PRIME: 1 COAT PITT-TECH PLUS 4020 PF
      a. REMOVE ALL RUST, DIRT, MOISTURE, GREASE OR OTHER CONTAMINANTS FROM THE SURFACE
      b. ABRASIVE BLAST CLEANING TO SSPC SP-6 STANDARDS WILL GIVE OPTIMUM PERFORMANCE
      c. WHERE ABRASIVE BLASTING IS NOT PRACTICAL, POWER TOOL CLEANING IN ACCORDANCE WITH SSPC SP-3 OR HAND TOOL CLEANING TO SSPC SP-2 REQUIREMENTS IS ACCEPTABLE
   b. FINISH: 2 COATS PITT-TECH PLUS 90-1110 SATIN
3. PRE-FINISHED METAL (FACTORY FINISH) RED SIGN - SEE COLOR CARD FOR FORMULA
   a. PRIME: 1 COAT AMERLOCK 2/400 AT 5-7 MILS DFT
      a. PREP:
         i. REMOVE ALL RUST, DIRT, MOISTURE, GREASE OR OTHER CONTAMINANTS FROM THE SURFACE
         ii. SP-6 COMMERCIAL BLAST, SP: 2-4 MILS DFT
      b. FINISH: 2 COATS P8X 7100 AT 5 TO 7 MILS
4. ALL SURFACES RED STRIPE
   a. PRIME: 1 COAT AMERLOCK 2/400 PEARL GREY
      i. PREP:
         1. SEE TECHNICAL DATA PAGE FOR SURFACE RECOMMENDATIONS
         2. REMOVE ALL RUST, DIRT, MOISTURE, GREASE OR OTHER CONTAMINANTS FROM THE SURFACE
         3. SP-SSPC-SP13 / NACE 6, ICRI SP 3-5 MILS
            a. PROVIDES REQUIREMENTS FOR SURFACE PREPARATION OF CONCRETE BY MECHANICAL, CHEMICAL, OR THERMAL METHODS PRIOR TO THE APPLICATION OF BONDED PROTECTIVE COATING SYSTEMS.
   b. FINISH: 2 COATS P8X 7100 AT 5 TO 7 MILS DFT
      i. COLOR:
         1. SEE COLOR CARD FOR FORMULA
5. STUCCO ALTERNATE FOR NON-PROTOTYPE FINISH
   a. PRIME: 1 COAT SEAL GRIP® INTERIOR/EXTERIOR UNIVERSAL PRIMER/SEALER
      a. MAX MOISTURE 12%, MAX PH 9
      b. SURFACES TO BE COATED MUST BE DRY, CLEAN, SOUND, AND FREE FROM ALL CONTAMINATION INCLUDING LOOSE AND PEELING PAINT, DIRT, GREASE, OIL, WAX, CONCRETE CURING AGENTS AND BOND BREAKERS, CHALK, EFFLORESCENCE, MILDEW, RUST, PRODUCT FINES, AND DUST. REMOVE LOOSE PAINT, CHALK, AND EFFLORESCENCE BY WIRE BRUSHING, SCRAPING, SANDING, AND/OR PRESSURE WASHING. PUTTY ALL NAIL HOLES AND CAULK ALL CRACKS AND OPEN SEAMS. SAND ALL GLOSSY, ROUGH, AND PATCHED SURFACES.
   b. FINISH: 2 COATS SPEEDHIDE® EXTERIOR LATEX SATIN
6. METAL HANDRAILS
   a. PRIME: 1 COAT PITT-TECH PLUS 4020 PF
      a. REMOVE ALL RUST, DIRT, MOISTURE, GREASE OR OTHER CONTAMINANTS FROM THE SURFACE
      b. ABRASIVE BLAST CLEANING TO SSPC SP-6 STANDARDS WILL GIVE OPTIMUM PERFORMANCE
      c. WHERE ABRASIVE BLASTING IS NOT PRACTICAL, POWER TOOL CLEANING IN ACCORDANCE WITH SSPC SP-3 OR HAND TOOL CLEANING TO SSPC SP-2 REQUIREMENTS IS ACCEPTABLE
   b. FINISH: 2 COATS PITT-TECH PLUS ¼ 90-1393 BLACK
7. PARKING LOT BOLLARDS, MANDATED SAFETY REQUIREMENTS
   a. PRIME: 1 COAT PITT-TECH PLUS 4020 PF
      i. SEE TECHNICAL DATA PAGE FOR SURFACE RECOMMENDATIONS
      ii. REMOVE ALL RUST, DIRT, MOISTURE, GREASE OR OTHER CONTAMINANTS FROM THE SURFACE
   b. FINISH: 2 COATS PITT-TECH PLUS ¼ 90-1393 YELLOW

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A New Store for
Advance Auto Parts Store # 17061
2056 Genesis Road (Genesis Rd & Interstate Dr Lot #2)
Crossville, TN 38555

REVISIONS			
REV	DATE	DESCRIPTION	

Project Number	23-81
Date:	07-10-2023
Drawn by:	J DORRIS
Checked by:	G BOUTON

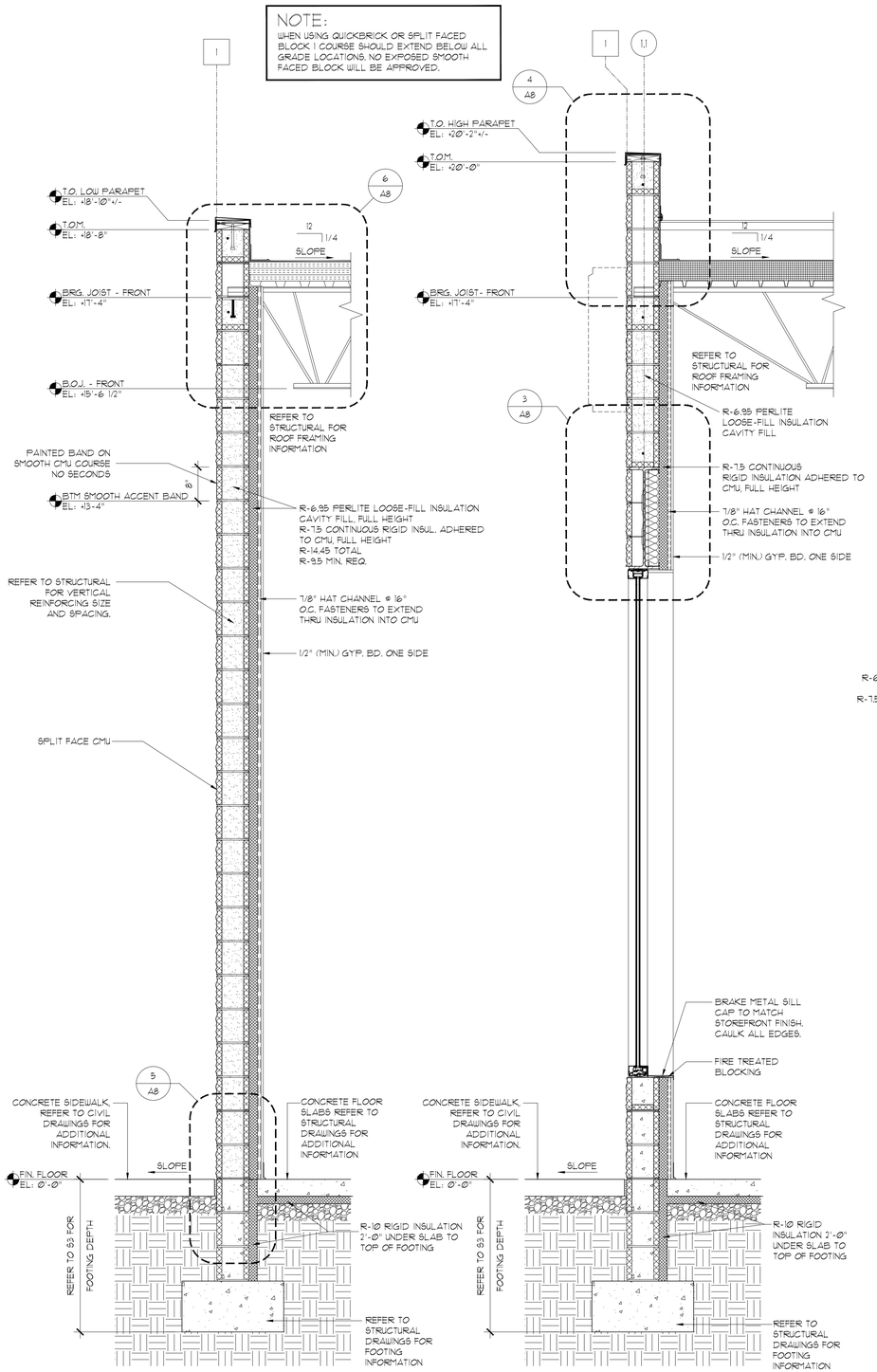
CONSTRUCTION DOCUMENTS

GARY A. BOUTON REGISTERED ENGINEER AGRICULTURE 07-10 2023 COMMERCE No. 110852 STATE OF TENNESSEE

EXTERIOR ELEVATIONS

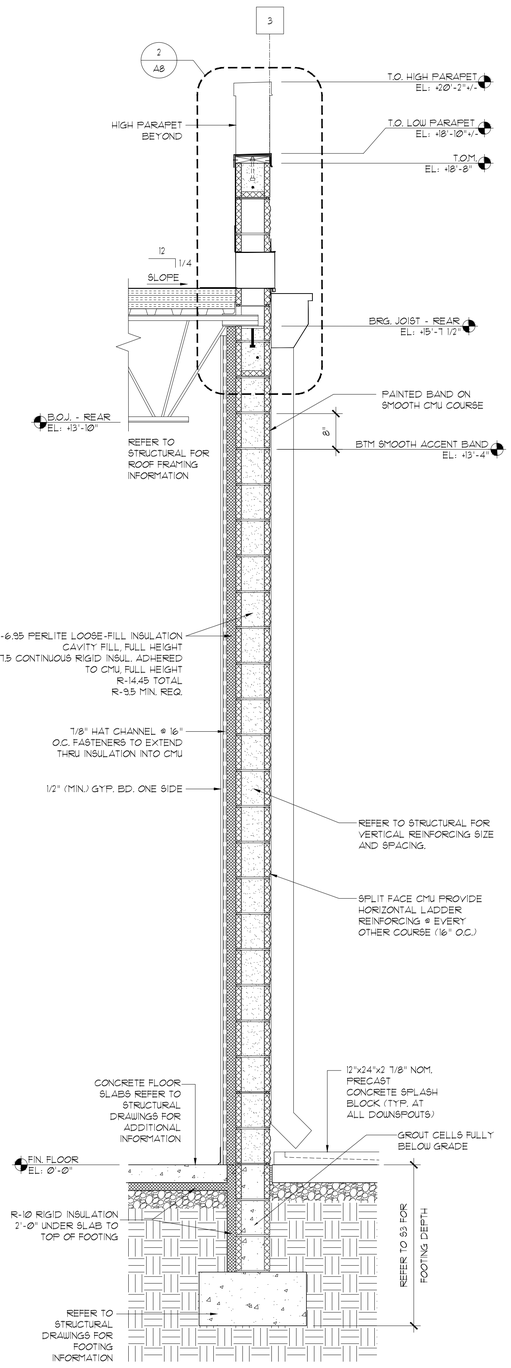
A6

NOTE:
WHEN USING QUICKBRICK OR SPLIT FACED BLOCK 1 COURSE SHOULD EXTEND BELOW ALL GRADE LOCATIONS. NO EXPOSED SMOOTH FACED BLOCK WILL BE APPROVED.

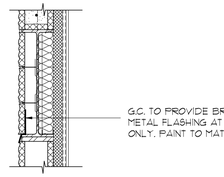


1 A7 WALL SECTION
SCALE: 3/4" = 1'-Ø"

2 A7 WALL SECTION @ STOREFRONT
SCALE: 3/4" = 1'-Ø"



3 A7 WALL SECTION @REAR CMU
SCALE: 3/4" = 1'-Ø"



6 A7 PARTIAL SECTION AT BEARING PLATE
SCALE: 3/4" = 1'-Ø"

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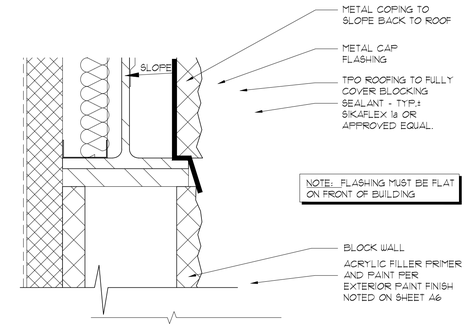
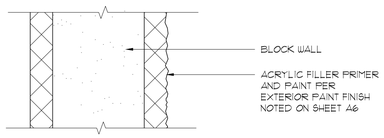
WALL SECTIONS

A7

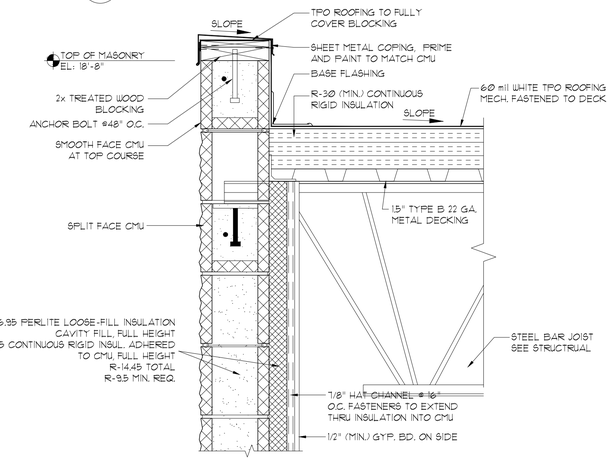


NOTES:
1. DETAIL SHOWN FOR MFR. GENERAL REQUIREMENTS. REFER TO BUILDING SECTIONS AND RELATED DETAILS FOR EXACT APPLICATION(S)

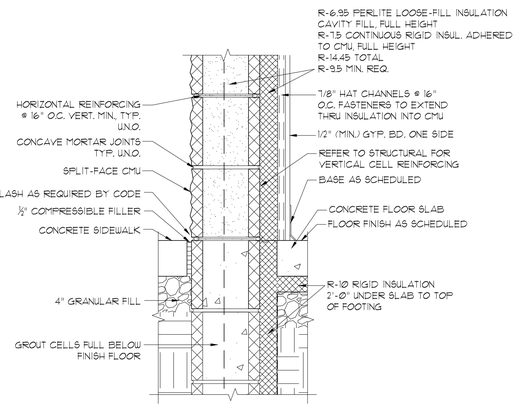


NOTES:
1. DETAIL SHOWN FOR MFR. GENERAL REQUIREMENTS. REFER TO BUILDING SECTIONS AND RELATED DETAILS FOR EXACT APPLICATION(S)

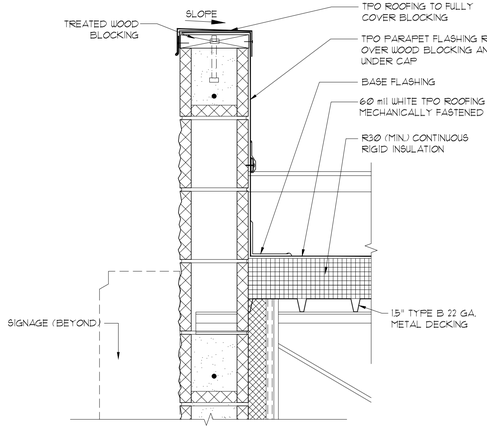
7 / A8 SECTION @ SIGNAGE
SCALE: NONE



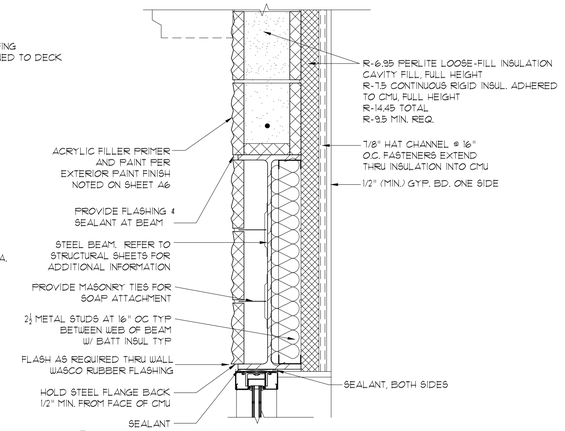
6 / A8 PARAPET DETAIL
SCALE: 1 1/2" = 1'-0"



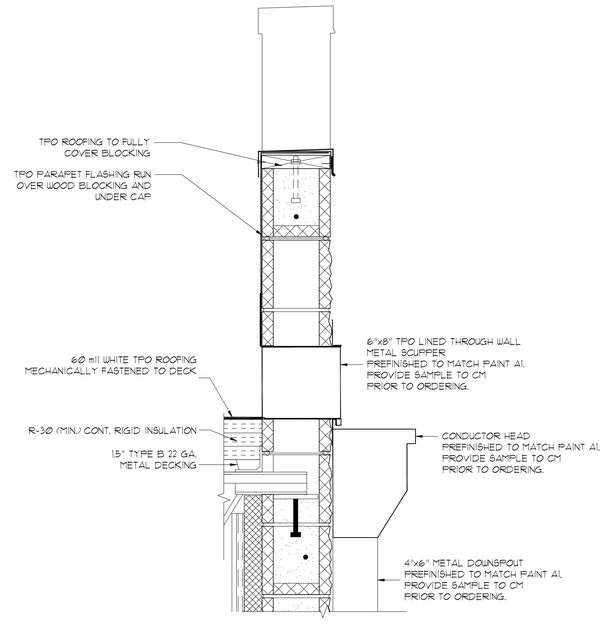
5 / A8 CMU AT GRADE
SCALE: 1 1/2" = 1'-0"



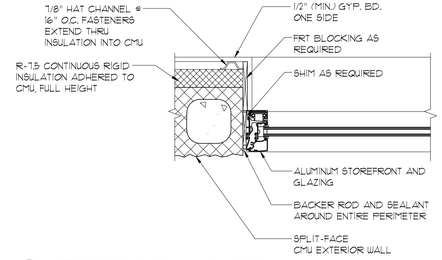
4 / A8 SIGNAGE PARAPET DETAIL
SCALE: 1 1/2" = 1'-0"



3 / A8 STOREFRONT HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



2 / A8 THROUGH WALL SCUPPER DETAIL
SCALE: 1 1/2" = 1'-0"



1 / A8 STOREFRONT JAMB DETAIL
SCALE: 1 1/2" = 1'-0"

REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

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GARY A. BOUTON
REGISTERED ENGINEER
AGRICULTURE
07-10-2023
No. 110862
STATE OF TENNESSEE

WALL SECTION DETAILS

A8

BUILDING AREA

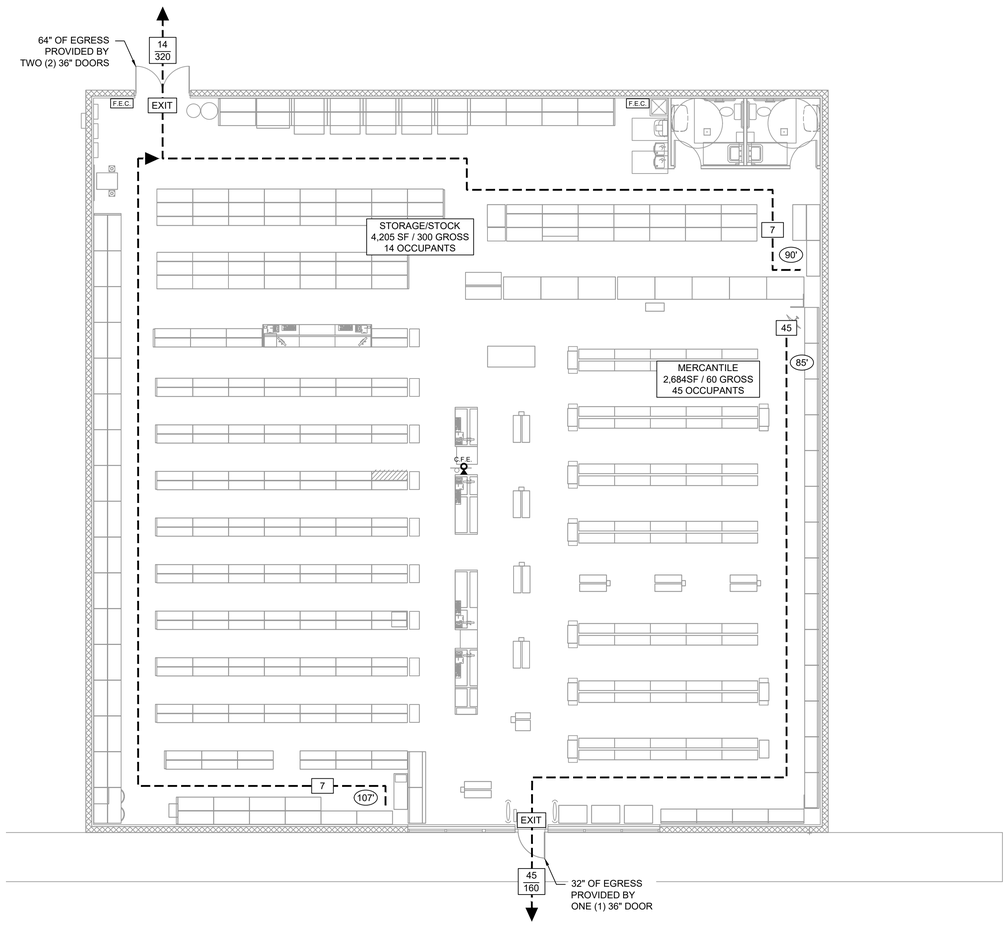
MERCANTILE AREA:	2,684	SQ. FT.
STORAGE/STOCK:	4,205	SQ. FT.
TOTAL FLOOR AREA:	6,889	SQ. FT.

OCCUPANT LOADING

MERCANTILE @ 60/PERSON =	45
STORAGE/STOCK @300/PERSON =	14
TOTAL OCCUPANT LOAD=	59

SYMBOL LEGEND

- XX — OCCUPANTS
- XX / XXX — TOTAL OCCUPANTS PER EXTERIOR EXIT / EXTERIOR EXIT OCCUPANT CAPACITY
- XX' — TRAVEL DISTANCE
- COMMON PATH OF EGRESS TRAVEL
- DIRECTION OF EGRESS TRAFFIC
- F.E.C. — FIRE EXTINGUISHER CABINET
- C.F.E. — WALL MOUNTED CHEMICAL FIRE EXTINGUISHER



1 LS1 LIFE SAFETY PLAN
SCALE: 1/8"=1'-0"

TRUE NORTH PLAN NORTH

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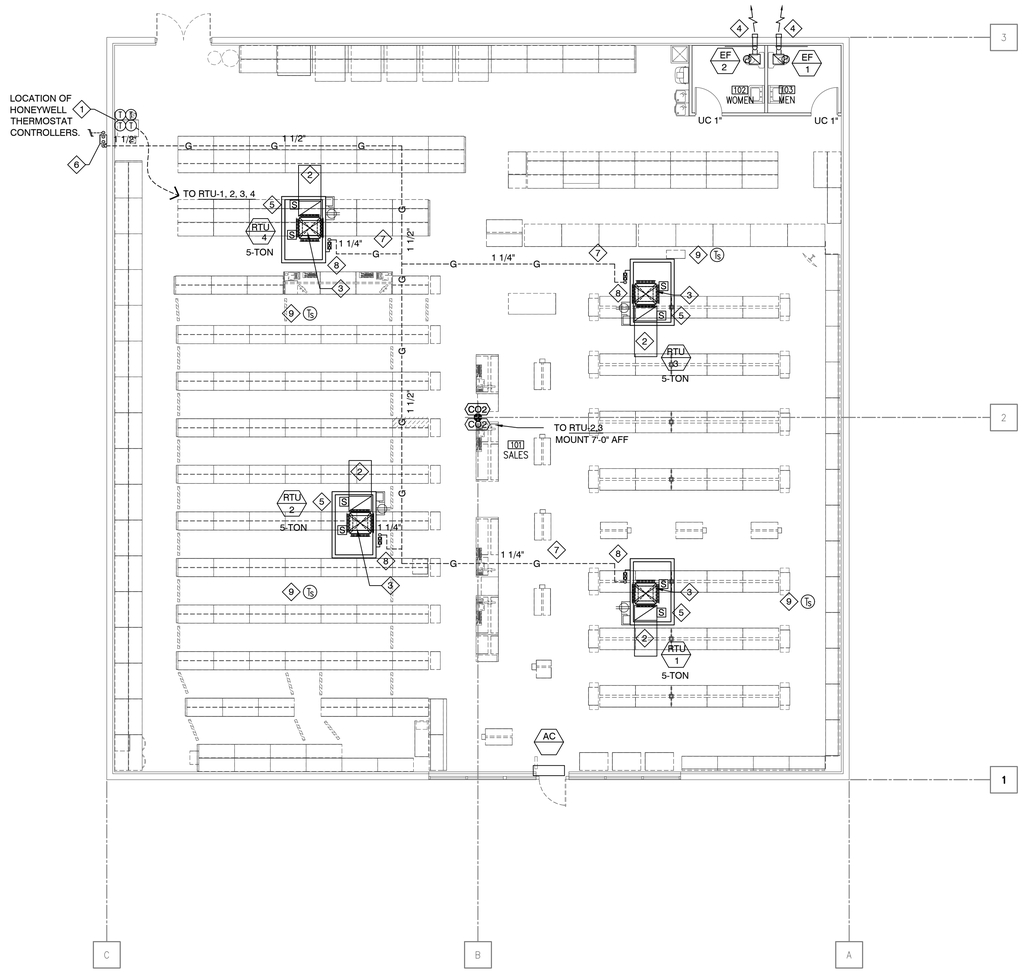
LIFE SAFETY PLAN

LS1



HVAC FLOOR PLAN

SCALE: 1/8" = 1'-0"

HVAC FLOOR PLAN KEY NOTES:

1. RTU THERMOSTAT LOCATION – PROVIDE AND INSTALL HONEYWELL PROGRAMMABLE THERMOSTATS AND CONTROL WIRING, MODEL TH8320R1003 REDLINK VISION PRO 8000 3 HEAT/2 COOL 7 DAY PROGRAMMABLE TOUCHSCREEN. MOUNT AT 5'–7" AFF.
2. PROVIDE MINIMUM 4'–0" HORIZONTAL LENGTH OF FULL SIZE RETURN AIR DUCT INSTALLED AS HIGH AS POSSIBLE BELOW THE ROOF DECK BETWEEN THE ROOF BAR JOISTS. PROVIDE AN EXPANDED METAL MESH GRILLE WITHOUT DAMPER ON THE END OF THE DUCT. SEE DETAIL 1/M2.
3. 28" x 28" x 10" GALVANIZED STEEL SUPPLY AIR PLENUM BOX. INSTALL TOP OF PLENUM BOX FLUSH WITH THE BOTTOM OF THE ROOF BAR JOISTS. INSTALL A SUPPLY AIR REGISTER WITH DAMPER, GALVANIZED FINISH, IN EACH SIDE OF THE SUPPLY AIR PLEMUM BOX AND BALANCE EACH GRILLE TO PROVIDE ONE–FOURTH OF THE RTU TOTAL SUPPLY AIR CFM. SEE DETAIL 1/M2. RUN DUCTWORK IN JOIST SPACE TO EXTERIOR WALL.
4. ROUTE TOILET ROOM EXHAUST FAN DUCTS PARALLEL TO CEILING, IN JOIST SPACE, AND EXTEND TO EXTERIOR WALL CAPS AS SHOWN.
5. THE RETURN AIR SMOKE DETECTOR IN THE MAIN SUPPLY AND RETURN AIR PATH IS FACTORY INSTALLED. THE REMOTE INDICATOR/TEST STATION, WIRING IS NOT FACTORY INSTALLED, AND SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. THE SMOKE DETECTOR AND THE REMOTE INDICATOR/TEST STATION SHALL BE INTERLOCKED WITH THE RTU CONTROLS TO AUTOMATICALLY SHUT DOWN THE UNIT UPON SENSOR ACTIVATION OR REMOTE INDICATOR/TEST STATION USE. SEE ELECTRICAL DRAWINGS FOR CLARIFICATION. (RE: DIAGRAM 1/E4)
6. THE GAS METER, REGULATOR AND UNDERGROUND SERVICE PIPING ARE PROVIDED BY MIDDLE TENNESSEE NATURAL GAS. THIS CONTRACTOR SHALL CONNECT AT THE OUTLET SIDE OF THE METER AND PROVIDE A HOUSE VALVE AND RISER ON THE BLDG. EXTERIOR TO THE ROOF OF THE SIZE NOTED. PAINT THE GAS RISER TO MATCH THE BLDG. EXTERIOR. CONNECTED LOAD = 405 MBH. DELIVERY PRESSURE = 7" W.C.
7. ROUTE GAS PIPING ACROSS THE ROOF. PROVIDE GAS PIPING SUPPORTS EQUAL TO MIRO INDUSTRIES PILLOW BLOCK PIPE SUPPORTS, LOCATE PIPING SUPPORTS AT 10'–0" O.C. AND AT ALL ELBOWS AND TEES. PRIME AND PAINT ROOF MOUNTED GAS PIPING YELLOW.
8. RISE/DROP TO THE RTU GAS CONNECTION. PROVIDE A FULL SIZE DIRT LEG, GAS COCK AND UNION AT THE UNIT CONNECTION.
9. HONEYWELL TR21–A TEMPERATURE SENSOR MOUNTED TO HANGING CONDUIT @ 7'–0" A.F.F.

HVAC GENERAL NOTES:

1. ALL RECTANGULAR AND ROUND DUCTS SHALL BE SIZED AS SHOWN ON THE DRAWINGS. DUCT SIZES SHOWN ARE FREE AREA SIZES AND THE CONTRACTOR SHALL MAKE ALLOWANCES TO INCLUDE 1 1/2" INTERNAL DUCT LINER INSULATION FOR RECTANGULAR DUCTS PER THE HVAC SPECIFICATIONS ON SHEET MP1,ITEM 14.3
2. ALL RECTANGULAR AND ROUND DUCTWORK SHALL BE FABRICATED USING MILD GALVANIZED SHEET METAL. FIBERGLASS DUCTBOARD IS PROHIBITED.
3. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED ACCORDING TO THE MOST RECENTLY PUBLISHED ASHRAE AND SMACNA STANDARDS. UNLESS OTHERWISE NOTED ROUTE DUCTWORK AS HIGH AS POSSIBLE.
4. INSTALL TURNING VANES IN ALL RECTANGULAR DUCT ELBOWS.
5. SUPPLY & RETURN DUCT CONNECTIONS TO EQUIPMENT SHALL INCLUDE CANVAS FLEXIBLE DUCT CONNECTORS. LOCATE FLEXIBLE DUCT CONNECTORS MAXIMUM 6" BELOW BOTTOM OF ROOF DECK FOR VERTICAL DUCT DROPS FROM ROOF MOUNTED EQUIPMENT.
6. MANUFACTURER'S MINIMUM CLEARANCE RECOMMENDATIONS SHALL BE MAINTAINED ON ALL EQUIPMENT AND DUCTWORK.
7. CONDENSATE DISCHARGE FOR RTUS MUST BE PIPED WITH TRAP, AND DISCHARGING ONLY TO ROOF SPLASH BLOCK. REFER TO DETAIL #3 ON SHEET M2.
8. AN EQUIPMENT INSTALLATION CHECKLIST AND INSTALLATION MANUALS WILL BE FORWARDED TO THE HVAC CONTRACTOR WHEN THE EQUIPMENT ORDER IS PLACED. THE HVAC CONTRACTOR WILL COMPLETE THE CHECKLIST DURING THE EQUIPMENT INSTALLATION.
9. AN EQUIPMENT START–UP & CHECKOUT SHEET FOR EACH UNIT WILL BE PROVIDED TO THE HVAC CONTRACTOR BY THE ADVANCE AUTO PARTS REPRESENTATIVE. THESE SHEETS SHALL BE COMPLETED AND SUBMITTED TO THE PROJECT MANAGER AT OR PRIOR TO THE REQUEST FOR PUNCHLIST.
10. REPLACE ALL HVAC START–UP EQUIPMENT FILTERS WITH NEW 2" PLEATED THROWAWAY FILTERS THE WEDNESDAY PRIOR TO OPENING. DISPOSE OF REPLACED FILTERS OFF SITE.
11. THIS CONTRACTOR SHALL ENGAGE THE SERVICES OF AN AABC OR NEBB CERTIFIED AIR BALANCE CONTRACTOR TO ADJUST AND COMPLETELY BALANCE THE INSTALLED SYSTEMS TO THE DESIGN AIR QUANTITIES. THE BALANCING CONTRACTOR SHALL PROVIDE AAP WITH A COPY OF THE CERTIFIED AIR BALANCE REPORT SHOWING DESIGN AND MEASURED AIR QUANTITIES, STATIC PRESSURES, FAN MOTOR RPM AND MOTOR CURRENT. DEVIATION BETWEEN DESIGN AND MEASURED QUANTITIES SHALL NOT BE GREATER THAN 10%.
12. IF A CEILING IS INSTALLED IN THE SALES/MERCHANDISING AREAS, THE FOLLOWING ITEMS, EQUIVALENT TO MICROMETL, SHALL BE PROVIDED:
    CONCENTRIC TRANSITION #0816–643A–00010
    DUCT PACKAGE #0903–348B–00010 30"x48"
    FLUSH DIFFUSER #0902–0013–00000
    MICROMETL CORPORATION (800) 662–4822
13. ELECTRICAL CONTRACTOR'S RESPONSIBLE FOR PROVIDING REMOTE TEST STATIONS AND ASSOCIATED WIRING FOR FACTORY SUPPLIED RETURN AIR DUCT SENSORS. LOCATE ADJACENT TO TELEPHONE BOARD, RE: 1/E4. G.C. IS RESPONSIBLE FOR COORDINATION OF SCOPE BETWEEN TRADES, TYPICAL.

AIR CURTAIN SCHEDULE

MARK	MFR. & MODEL	CFM	LENGTH	VOLTAGE / PHASE	MOTOR HP	HEAT CAPACITY	AMPS / MOCP	WEIGHT
AC–1 WITH HEAT	POWERED AIR INC. EVE–1–36E	961	36"	208V/3PH	(1) 1/5	8 KW	24.2A / 35	59 LBS.

NOTES:

1. MEETS IECC BUILDING CODE WHICH ALLOWS AMCA CERTIFIED AIR CURTAIN AS AN ALTERNATIVE TO VESTIBULES.
2. MAGNETIC DOOR SWITCH AT EACH DOOR FOR INSTALLATION BY CONTRACTOR.
3. MOUNT ABOVE DOOR AT 7'–3" A.F.F.
4. PREFERRED VENDOR. NO SUBSTITUTIONS
5. FINISH TO BE STAINLESS STEEL 18GA 304 #3 FINISH
6. TOP MOUNT
7. UNIT MOUNTED VARIABLE SPEED CONTROLLER.
8.. THERMOSTAT MOUNTED TO TOP OF UNIT.

0 2' 4' 8'
SCALE: 1/8" = 1'-0"

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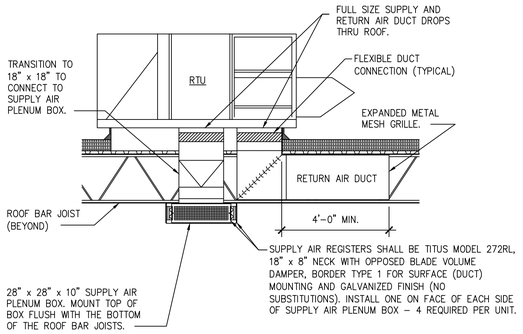
FRANK M. MONTGOMERY — REGISTERED ENGINEER — AGRICULTURE — STATE OF TENNESSEE

HVAC FLOOR PLAN

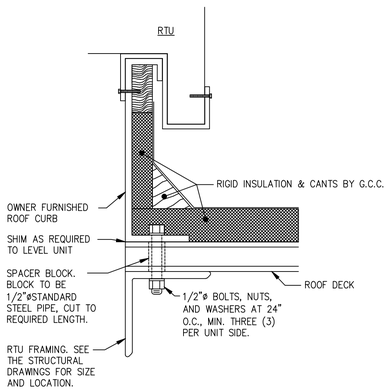
M1



NOTE:
AFTER THE LIGHTING IS INSTALLED, THE HVAC CONTRACTOR SHALL ADJUST THE HORIZONTAL AND/OR VERTICAL DEFLECTION OF THE AIR FLOW PATTERN FROM THE SUPPLY AIR REGISTERS AS REQUIRED TO AVOID LIGHT FIXTURE MOVEMENT AS A RESULT OF SUPPLY AIR FLOW. WHEN FINAL ADJUSTMENTS ARE COMPLETE, NO LIGHT FIXTURE SHALL EXPERIENCE MOVEMENT CAUSED BY THE AIRFLOW PATTERN FROM THE SUPPLY DIFFUSERS. IF AIR FLOW ADJUSTMENT DOES NOT ELIMINATE LIGHT FIXTURE MOVEMENT, COORDINATE WITH THE ELECTRICAL CONTRACTOR TO INSTALL BRACKETS AND ANTI-SWAY CABLES FOR THE AFFECTED LIGHT FIXTURE(S) TO ELIMINATE LIGHT FIXTURE MOVEMENT.
IN ADDITION TO LIGHTING, ADJUST THE HORIZONTAL AND/OR VERTICAL DEFLECTION OF THE AIR FLOW PATTERN FROM THE SUPPLY AIR REGISTERS AS REQUIRED TO WORK AROUND GRAPHICS.

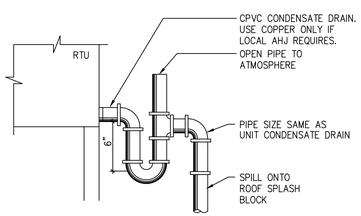
RTU DUCT INSTALLATION DETAIL

SCALE: NONE



RTU ANCHORING DETAIL

SCALE: NONE



NOTE:
ALL PIPES FULL SIZE OF UNIT OUTLET.

RTU CONDENSATE DETAIL

SCALE: NONE

ROOF TOP UNIT SCHEDULE

(COORDINATE ORDERING AND DELIVERY WITH THE CARRIER NATIONAL ACCOUNT REPRESENTATIVE. REFER TO SHEET T1 FOR CONTACT DATA.)

MARK	CARRIER MODEL #	NOM TONS	SUPPLY FAN HP	SUPPLY FAN CFM	SUPPLY FAN ESP	VOLTS/PHASE	GAS HEATING MBH INPUT	GAS HEATING MBH OUTPUT	COOLING DATA TOTAL	COOLING DATA SENSIBLE	COOLING DATA AMB.	COOLING DATA DB	COOLING DATA WB	MCA	MOCP	SEER	WEIGHT (LBS)*	ACCESSORIES/NOTES
RTU-1, 4	48GCEM06K2A5-6B1F0	5.0	0.85	2,000	0.6	208/3	110.0	88.0	63.00	48.32	95	80	67	31	45	16.0	765.5	1,2,3,4,5,6,9,11,12
RTU-2, 3	48GCEM06K2A5-6B1F0	5.0	0.85	2,000	0.6	208/3	110.0	88.0	63.00	48.32	95	80	67	31	45	16.0	765.5	1,2,3,4,5,6,7,9,11,12

ACCESSORIES / NOTES:
1. FACTORY INSTALLED ECONOMIZER.
2. FACTORY INSTALLED BAROMETRIC RELIEF.
3. FACTORY INSTALLED POWER DISCONNECT SWITCH.
4. FACTORY INSTALLED NON-POWERED CONVENIENCE OUTLET. ELECTRICAL CONTRACTOR TO PROVIDE POWER TO OUTLET.
5. FACTORY INSTALLED SUPPLY AND RETURN AIR SMOKE DETECTOR.
6. MANUFACTURER'S STANDARD 14" HIGH ROOF CURB SHIPPED WITH THE UNIT AND FIELD INSTALLED.
7. MANUFACTURER'S CO2 DEMAND-CONTROLLED VENTILATION WALL SENSOR SHIPPED WITH THE UNIT. FURNISH TO THE ELECTRICAL CONTRACTOR FOR INSTALLATION.
8. NOT USED
9. MANUFACTURER'S GAS PIPING KIT SHIPPED WITH THE UNIT AND FIELD INSTALLED.
10. NOT USED
11. FIELD SUPPLIED AND INSTALLED 2" PLEATED THROWAWAY FILTERS.
12. MANUFACTURES STANDARD 12" MANUFACTURER'S STANDARD HAIL GUARD SHIPPED WITH THE UNIT AND FIELD INSTALLED.

MCA – MINIMUM CIRCUIT AMPS
MOCP – MAXIMUM OVERCURRENT PROTECTION
* – APPROX. WEIGHT INCLUDES ACCESSORIES (CURB, ECONOMIZER, ETC.)

LENNOX / CARRIER RTU EQUIPMENT NOTES

FOR COMPLETE INFORMATION/PRICING ON THE RTU EQUIPMENT PACKAGE, CONTACT THE ADVANCE AUTO PARTS ACCOUNT REPRESENTATIVE AT LENNOX/CARRIER NATIONAL ACCOUNTS. REFER TO SHEET T1 FOR CONTACT DATA.

ANY CHANGES/VARIATIONS TO THE ORIGINAL RTU EQUIPMENT PACKAGE SHOULD BE BROUGHT TO THE ATTENTION OF THE ACCOUNT REPRESENTATIVE AT LENNOX/CARRIER NATIONAL ACCOUNTS AT THE TIME OF QUOTATION.

THE RTU EQUIPMENT PACKAGE MUST BE ORDERED FROM LENNOX/CARRIER NATIONAL ACCOUNTS. NO SUBSTITUTIONS WILL BE ALLOWED.

NOTE: ORDERING PROCEDURES
THE SUCCESSFUL HVAC CONTRACTOR SHALL PLACE THE ORDER FOR THE RTU EQUIPMENT PACKAGE DIRECTLY WITH THE LENNOX/CARRIER NATIONAL ACCOUNT REPRESENTATIVE. THE HVAC CONTRACTOR WILL BE RESPONSIBLE FOR THE EQUIPMENT WARRANTY, DELIVERY COORDINATION, RECEIVING AND INSTALLATION.

MECHANICAL SYMBOLS AND ABBREVIATIONS LEGEND

A.F.F.	ABOVE FINISHED FLOOR
AMB.	AMBIENT TEMPERATURE
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNITS PER HOUR
C.L.,℄	CENTERLINE
CO2	CARBON DIOXIDE
CONTR.	CONTRACTOR
CFM	CUBIC FEET PER MINUTE
DB	DRY BULB TEMPERATURE
DIA.	DIAMETER
DN.	DOWN
E.A.	EXHAUST AIR
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
EXH.	EXHAUST
FIN. FL.	FINISHED FLOOR
FLA	FULL LOAD AMPERES
HP	HORSEPOWER
MBH	ONE THOUSAND (1000) BTUH
MFR.	MANUFACTURER
N.I.C.	NOT IN CONTRACT
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.A.	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED BLADE DAMPER
R.A.	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
S.A.	SUPPLY AIR
S.F.	SQUARE FEET
S.P.	STATIC PRESSURE
TSP	TOTAL STATIC PRESSURE
TYP.	TYPICAL
WB	WET BULB TEMPERATURE
W.C.	WATER COLUMN

GAS PIPING OF SIZE NOTED
DUCT MOUNTED SMOKE DETECTOR
SUPPLY AIR DIFFUSER
RETURN OR EXHAUST GRILLE
VOLUME DAMPER (VD)
THERMOSTAT
REMOTE TEMPERATURE SENSOR
CARBON DIOXIDE SENSOR
PIPE RISER
PIPE DROP
SHUT OFF VALVE
DISCHARGE OR SUPPLY AIR DUCT
RETURN OR EXHAUST AIR DUCT

KEYED NOTES ON DRAWING
DRAWING REVISIONS

NOTE: THIS LEGEND IS FOR REFERENCE ONLY. NOT ALL SYMBOLS AND ABBREVIATIONS WILL BE USED. NOT ALL SYMBOLS AND ABBREVIATIONS USED ARE INCLUDED IN LEGEND. IF QUESTIONS ARISE DUE TO THE USE OF ANY SYMBOL OR ABBREVIATION THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER IMMEDIATELY FOR DEFINITION(S) AND/OR CLARIFICATION(S).

OUTSIDE AIR CALCULATIONS

(BASED ON 2012 INTERNATIONAL MECHANICAL CODE)

OUTSIDE AIR REQUIRED

A. BUILDING AREA:
SALES, MERCHANDISE & TOILET AREAS: 6,912 S.F.
TOTAL FLOOR AREA (NET): 6,912 S.F.

B. OUTSIDE AIR REQUIRED:
PEOPLE LOAD:
15 PEOPLE / 1,000 SQ FT = 15 X 6,912 = 103 PEOPLE
6,912 SQ FT X 0.12 CFM / SQ FT 826 CFM
103 PEOPLE X 7.5 CFM / PERSON 773 CFM
TOTAL OUTSIDE AIR CFM REQUIRED: 1,600 CFM

OUTSIDE AIR PROVIDED

RTU-1	=	400 CFM
RTU-2 (CO2 SENSOR)	=	400 CFM
RTU-3 (CO2 SENSOR)	=	400 CFM
RTU-4	=	400 CFM
TOTAL O.A. PROVIDED	=	1,600 CFM

EXHAUST FAN SCHEDULE

(HVAC CONTRACTOR SHALL FURNISH AND INSTALL ALL FANS AND ACCESSORIES.)

MARK	MFR. & MODEL	CFM	S.P.	SONES	RPM	VOLTS / PHASE	WATTS/HP	ACCESSORIES / NOTES
EF-1/2	COOK GC 142	94	.125	1.7	1,000	120 / 1	59 W	1,2,3

ACCESSORIES / NOTES:
1. PROVIDE WITH 6" DIA. EXHAUST DUCT AND WALL CAP.
2. FAN SHALL BE CONTROLLED BY THE TOILET ROOM LIGHT SWITCH. ALL WIRING IS BY THE ELECTRICAL CONTRACTOR. SEE THE ELECTRICAL DRAWINGS FOR CLARIFICATION.
3. OR APPROVED EQUIVALENT MANUFACTURER. PROVIDE VENDOR DRAWINGS FOR APPROVAL.

GAS LOAD CALCULATIONS

EQUIPMENT:	LOAD:	
RTU-1	110 MBH	(SEE SCHEDULE)
RTU-2	110 MBH	(SEE SCHEDULE)
RTU-3	110 MBH	(SEE SCHEDULE)
RTU-4	110 MBH	(SEE SCHEDULE)
TOTALS:	440 MBH	

J&S Construction Co. Inc.
1843 Foreman Drive
Cookeville, TN. 38501
931-528-7475
jsconstruction.com

sparrow Ventures
931-261-7006

BOUTON ENGINEERING
Structural • Civil Consulting
BOUTON ENGINEERING
420 N. Washington Ave., Suite 7
Cookeville, TN 38501
boutonconsult.com

A New Store for
Advance Auto Parts
Store # 17061
2056 Genesis Road (Genesis Rd & Interstate Dr Lot #2)
Crossville, TN 38555

REVISIONS		
REV	DATE	DESCRIPTION

Project Number	23-81
Date:	07-10-2023
Drawn by:	
Checked by:	

CONSTRUCTION DOCUMENTS

FRANK M. MONTGOMERY — REGISTERED ENGINEER — AGRICULTURE — STATE OF TENNESSEE

MONTGOMERY ENGINEERING PLLC
Electrical and Mechanical Construction Engineers
1191 Nashville Pike, Gallatin, TN 37066
615.230.9089 www.montgomeryengineering.com
Job No. 23209

HVAC SCHEDULES & DETAILS

M2

HVAC SPECIFICATIONS

1. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH ALL APPLICABLE CODES AND ADVANCE AUTO PARTS (AAP) MINIMUM REQUIREMENTS AS STATED HEREIN OR OTHERWISE INDICATED BY AAP.

2. SEE ARCHITECTURAL GENERAL AND SPECIAL CONDITIONS. ALL CONDITION REQUIREMENTS SHALL APPLY UNLESS OTHERWISE NOTED.

3. ALL WORK SHALL BE PERFORMED AS INDICATED ON THE DRAWINGS UNLESS FIELD CONDITIONS REQUIRE MINOR CHANGES BE MADE. MINOR CHANGES SHALL BE MADE WITH NO ADDITIONAL COST.

4. ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK BY AAP.

5. ACTUAL LOCATIONS OF UTILITY SERVICES MUST BE FIELD VERIFIED. CHANGES TO CONFORM TO ACTUAL POINTS OF CONNECTION SHALL BE MADE AT NO ADDITIONAL COST.

6. EQUIPMENT, FIXTURES, AND ACCESSORIES SHALL NOT BE SUPPORTED FROM CEILINGS, SOFFITS, NEUTRAL PIERS, PIPING, DUCTWORK, ROOF DECK, LATERAL BRACING, BRIDGING OR CONDUIT. ITEMS SHALL ONLY BE SUPPORTED FROM STRUCTURE WHICH HAS BEEN APPROVED FOR SUPPORT.

7. ALL ROOF WORK PENETRATIONS AND REPAIRS SHALL BE TOTALLY PERFORMED BY ONLY THOSE ROOFING CONTRACTORS APPROVED BY AAP. THIS CONTRACTOR SHALL ONLY EMPLOY ROOFING CONTRACTORS APPROVED BY AAP FOR ALL REQUIRED ROOF WORK.

8. INSTALLATION OF ROOF MOUNTED EQUIPMENT SHALL BE COORDINATED WITH THE AAP DESIGNATED REPRESENTATIVE.

9. DEFICIENCIES AND NON-CONFORMING ITEMS SHALL BE CORRECTED BY THE CONTRACTOR. FAILURE TO CORRECT SUCH ITEMS SHALL PERMIT AAP TO CORRECT SAME AT A COST TO THE CONTRACTOR.

10. INSTALLATIONS OF EQUIPMENT, i.e. FANS, AIR HANDLING UNITS, ETC., SHALL CONFORM TO THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE CODES.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS AND PAYING FOR SAME. THEY SHALL INCLUDE IN THEIR BID CHARGES FOR ALL FEES ASSOCIATED WITH THE CONSTRUCTION OF THE SPACE INCLUDING BUT NOT LIMITED TO LOCAL, COUNTY, OR STATE SERVICE CHARGES AND PERMIT FEES.

12. THE CONTRACTOR SHALL PREPARE AND SUBMIT AS-BUILT DRAWINGS TO AAP. THE AS-BUILT DRAWINGS SHALL INDICATE THE ACTUAL MANUFACTURER OF THE EQUIPMENT THAT WAS INSTALLED, THE EXACT LOCATION OF THE EQUIPMENT AND PERTINENT CAPACITIES.

13. THE SCOPE OF WORK OF THIS CONTRACT INCLUDES, BUT SHALL NOT BE LIMITED TO:

13.1 PROVIDE AND INSTALL ALL EQUIPMENT, APPLIANCES, CONTROL/EMS DEVICES, ACCESSORIES, MATERIAL AND LABOR.

13.2 PROVIDE AND INSTALL ALL DUCTWORK, INSULATION, AIR DEVICES, DUCT ACCESSORIES, MATERIAL AND LABOR.

13.3 PROVIDE AND INSTALL ALL PIPING, FITTINGS, VALVES, INSULATION, ACCESSORIES, MATERIAL AND LABOR.

13.4 PROVIDE AND INSTALL EXHAUST SYSTEM(S) AS INDICATED.

13.5 PROVIDE AND INSTALL ALL ROOF WORK, INCLUDING EQUIPMENT SUPPORTS AND ROOF PENETRATIONS.

13.6 PROVIDE ALL EQUIPMENT SUPPORTS AND HANGERS INCLUDING ANY AUXILIARY STEEL REQUIRED. ANY STRUCTURAL MODIFICATION TO THE BUILDING STRUCTURE SHALL BE MADE ONLY WITH THE WRITTEN APPROVAL OF AAP.

13.7 CLEAN, TEST AND PUT INTO SERVICE ALL SYSTEMS SPECIFIED.

13.8 PROVIDE A TEST & BALANCE REPORT PREPARED BY AN INDEPENDENT AABC OR NEBB CERTIFIED AIR BALANCE CONTRACTOR

13.9 WARRANT ALL WORK AND MATERIALS HEREIN SPECIFIED FOR A PERIOD OF NOT LESS THAN ONE YEAR.

14. MATERIALS

14.1 ALL MATERIALS SHALL BE NEW AND OF RECOGNIZED COMMERCIAL QUALITY. USED MATERIALS WILL NOT BE PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.

14.2 DUCTWORK

14.2.1 ALL DUCTWORK EXCEPT FLEXIBLE DUCTWORK SHALL BE GALVANIZED SHEET METAL, FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF SMACNA - "HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE". DUCTWORK 18" WIDTH AND LARGER SHALL BE CROSS-BROKEN OR RIBBED AND STIFFENED SO THAT IT WILL NOT "BREATHE", RATTLE, VIBRATE, OR SAG.

14.3 DUCT INSULATION

14.4.1 ALL RECTANGULAR SUPPLY AND RETURN AIR DUCTS SHALL BE INSULATED INTERNALLY UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. INTERNAL INSULATION SHALL BE 1-1/2" THICK FIBERGLASS DUCT LINER WITH A K-FACTOR OF .24 AT 75 DEG. F MEAN, A DENSITY OF 1.5 LB./C.F., BE SUITABLE FOR UP TO 2,500 FPM AIR VELOCITY AND HAVE A MINIMUM 6.0 INSTALLED R-VALUE.

14.3.2 ALL DUCT INSULATION SHALL BE UL LABELED FOR FIRE AND SMOKE RATINGS WITH A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50. DUCT INSULATION SHALL COMPLY WITH ALL APPLICABLE ASHRAE AND SMACNA STANDARDS.

14.3.3 DUCT INSULATION SHALL BE CERTAINTEED "TOUGHGARD R" DUCT LINER INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN COMPLIANCE WITH ALL APPLICABLE CODES.

14.4 AIR DEVICES

14.4.1 AIR DEVICES SHALL BE AS SPECIFIED ON THE DRAWINGS. ALTERNATE MANUFACTURER'S ACCEPTABLE FOR BASE BID ARE TITUS, CARNES, PRICE, METALAIRE OR KRUEGER.

14.4.3 ALL AIR DEVICES SHALL BE FINISHED GALVANIZED STEEL.

14.5 PIPING AND FITTINGS

14.5.1 NATURAL GAS PIPING, (WHEN USED), SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED JOINTS AND MALLEABLE IRON FITTINGS.

14.6 GAS VALVES (WHEN REQUIRED)

14.6.1 GAS COCKS 2" AND SMALLER SHALL BE 150 PSI NON-SHOCK WOG, BRONZE STRAIGHTWAY COCK, FLAT OR SQUARE HEAD WITH THREADED ENDS.

15. EQUIPMENT

15.1 HVAC EQUIPMENT SHALL BE AS SCHEDULED ON THE DRAWINGS AND/OR SPECIFIED HEREIN.

16. EXECUTION

16.1 GENERAL

16.1.1 ACCESSIBILITY - ALL EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT ALL COMPONENTS REQUIRING ACCESS ARE LOCATED AND INSTALLED THAT THEY MAY BE SERVICED, RESET, REPLACED, OR RECALIBRATED, ETC., BY SERVICE PEOPLE WITH NORMAL SERVICE TOOLS AND EQUIPMENT.

16.1.2 WORK BY OTHER TRADES - FOR THE WORK REQUIRED BY OTHER TRADES FOR CHANGES MADE BY THIS CONTRACTOR IN TYPE OR SIZE OF EQUIPMENT PURCHASED, ANY CUTTING, PATCHING, FURRING, PAINTING, ELECTRICAL OR PLUMBING WORK SHALL BE DONE BY THE AFFECTED TRADE AT THIS CONTRACTOR'S EXPENSE.

16.1.3 WORK NOT INCLUDED - POWER WIRING, INCLUDING FINAL CONNECTIONS, IS BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL INSTALL ALL MOTORS AND FURNISH THE STARTING EQUIPMENT TO THE ELEC- TRICAL CONTRACTOR FOR INSTALLATION. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, CONTROL/EMS WIRING AND RELATED CONDUIT AND J-BOXES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL SENSORS, INTERLOCKS, ETC. SHALL BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.. MECHANICAL CONTRACTOR TO ORDER THERMOSTATS FROM HONEYWELL TO BE INSTALLED BY MECHANICAL CONTRACTOR. DUCT MOUNTED SMOKE DETECTORS SHALL BE FACTORY INSTALLED. THE REMOTE INDICATOR/TEST STATION FOR EACH SMOKE DETECTOR BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. SMOKE DETECTOR WIRING NOT FACTORY INSTALLED, ALL REMOTE INDICATOR/TEST STATION WIRING, AND ALL RELATED CONDUIT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

16.1.4 EARLY START-UP - THIS CONTRACTOR SHALL ENSURE THAT ALL MECHANICAL EQUIPMENT IS CONNECTED WITH ELECTRICAL POWER AS EARLY AS POSSIBLE SO THAT BALANCING AND TESTING CAN BEGIN AT THE EARLIEST DATE AVAILABLE.

16.1.5 CLEANING AND PAINTING - THOROUGHLY CLEAN ALL EQUIPMENT AND REMOVE ALL TRASH, CARTONS, ETC., FROM THE WORK AREA. MAKE ANY NECESSARY CORRECTIONS OR REPAIR/REPLACE ANY DAMAGED MATERIALS OR EQUIPMENT. LEAVE THE ENTIRE WORK SPACE IN A THOROUGHLY CLEAN AND ORDERLY MANNER. ANY FINISHED SURFACES THAT HAVE BEEN SCRATCHED OR DISCOLORED SHALL BE TOUCHED UP OR REPAINTED TO MATCH THE ORIGINAL COLOR. IF ANY PART HAS BEEN BENT, BROKEN OR OTHERWISE DAMAGED, IT SHALL BE REPLACED PRIOR TO PROJECT CLOSEOUT. ALL METAL ITEMS INSIDE THE BUILDING SUBJECT TO RUSTING, AND ALL FERROUS METAL EXPOSED TO THE WEATHER SHALL BE GIVEN ONE COAT OF RUST PREVENTIVE PRIMER IMMEDIATELY AFTER INSTALLATION.

16.2 EQUIPMENT INSTALLATION

16.2.1 ALL EQUIPMENT AND RELATED PIPING, DUCTWORK AND ACCESSORIES SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING LINES AND, IF INSTALLED WITHIN THE BUILDING ENVELOPE, SHALL BE INSTALLED AS HIGH AS POSSIBLE TO ALLOW THE MAXIMUM AMOUNT OF HEADROOM. EQUIPMENT THAT REQUIRES ROUTINE MAINTENANCE SUCH AS FILTER REPLACEMENT SHALL BE INSTALLED AND ARRANGED TO BE ACCESSIBLE. PROVIDE ACCESS PANEL(S) AS REQUIRED AND/OR AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER. ALL EQUIPMENT SHALL BE INSTALLED WITH THE REQUIRED CLEARANCES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER OR AS REQUIRED BY GOVERNING CODES, WHICHEVER IS GREATER.

16.3 DUCTWORK

16.3.1 LOW PRESSURE DUCTWORK AND FITTINGS SHALL BE MADE TIGHT FOR MINIMUM AIR LEAKAGE. DUCT TAPE SHALL NOT BE USED TO SEAL JOINTS, TO MAKE TRANSITIONS, OR FOR ANY OTHER REASON.

16.3.2 INSTALL DUCTWORK AS HIGH AS POSSIBLE.

16.4 DUCT INSULATION

16.4.1 ALL DUCTWORK DESIGNATED TO RECEIVE DUCT LINER SHALL BE COMPLETELY COVERED WITH LINER. TRAVERSE JOINTS SHALL BE NEATLY BUTTED AND THERE SHALL BE NO INTERRUPTIONS OR GAPS.

16.4.2 DUCT LINER SHALL BE CUT AS REQUIRED TO ENSURE OVERLAPPED AND COMPRESSED LONGITUDINAL CORNER JOINTS.

16.4.3 FASTENERS SHALL START WITHIN 3" OF THE UPSTREAM TRAVERSE EDGES OF THE LINER AND 3" FROM THE LONGITUDINAL JOINTS AND SHALL BE SPACED AT A MAXIMUM OF 12" O.C. AROUND THE PERIMETER OF THE DUCT. ELSEWHERE THEY SHALL BE SPACED AT A MAXIMUM OF 18" O.C., EXCEPT THAT THEY SHALL BE PLACED NOT MORE THAN 6" FROM A LONGITUDINAL JOINT OF THE LINER OR 12" FROM A CORNER BREAK.

16.5 ROOF WORK

16.5.1 INSTALL ROOF MOUNTED EQUIPMENT SUPPORT RAILS OR ROOF CURBS AS REQUIRED FOR THE JOB CONDITIONS AND AS RECOMMENDED BY THE MANUFACTURER FOR THE INSTALLATION OF ROOF MOUNTED EQUIPMENT. THE EXACT LOCATION OF ALL ROOF MOUNTED EQUIPMENT IS SUBJECT TO THE APPROVAL OF AAP. COORDINATE THE ENTIRE INSTALLATION WITH THE AAP REPRESENTATIVE.

16.5.2 ALL ROOF PENETRATIONS SHALL BE INSTALLED PER AAP REQUIREMENTS AND THE ROOFING MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL ROOF PENETRATION AND SEALING REQUIREMENTS PRIOR TO BID.

16.5.3 THE CONTRACTOR SHALL PROVIDE A TEMPORARY PLYWOOD WORK PLATFORM THAT COMPLETELY SURROUNDS THE AREA WHERE NEW ROOF MOUNTED EQUIPMENT AND/OR DUCTS ARE TO BE INSTALLED. THE ENTIRE WORK AREA SHALL REMAIN ON THE ROOF DURING THE ENTIRE PERIOD OF INSTALLATION AND SHALL BE REMOVED FROM THE ROOF AND THE SITE BY THIS CONTRACTOR UPON COMPLETION OF THE INSTALLATION.

16.5.4 ALL ROOF PENETRATIONS FOR POWER AND CONTROL/EMS WIRING CONDUITS AND CONDENSATE PIPING SHALL BE MADE INSIDE THE CONFINES OF THE ROOF CURB.

16.6 NATURAL GAS PIPING

16.6.1 INSTALL ALL GAS PIPING IN ACCORDANCE WITH ALL APPLICABLE CODES. PIPE SEALANT SHALL BE APPLIED TO THE MALE THREADS ONLY AND SHALL BE CHEMICALLY RESISTANT TO NATURAL GAS.

16.6.2 CONTRACTOR SHALL REMOVE CUTTING AND THREADING BURRS AND SHALL ENSURE THAT THE ENTIRE PIPE IS FREE OF DEBRIS AND BLOCKAGES PRIOR TO PIPING ASSEMBLY.

16.6.3 CONTRACTOR SHALL PLUG EACH GAS OUTLET, INCLUDING VALVES, WITH A THREADED PLUG OR CAP IMMEDIATELY UPON INSTALLATION. CAP OR PLUG SHALL REMAIN IN PLACE UNTIL CONTINUING PIPING OR CONNECTIONS ARE MADE TO VALVE(S) OR EQUIPMENT.

16.6.4 THE GAS PIPING SYSTEM SHALL BE GROUNDED ELECTRICALLY AND CONTINUOUSLY. BOND PIPING TIGHTLY TO GROUNDING CONNECTORS. GROUNDING OF PIPING SHALL BE PER THE LANDLORD'S REQUIREMENTS AND IN COMPLIANCE WITH ALL APPLICABLE CODES.

16.6.5 PROVIDE A FULL SIZE DIRT LEG, GAS COCK AND UNION IN THE SUPPLY PIPING AT ALL CONNECTIONS TO GAS FIRED EQUIPMENT AND AS INDICATED ON THE DRAWINGS.

16.6.6 ROOF MOUNTED GAS PIPING SHALL BE SUPPORTED ON MIRO INDUSTRIES, INC. PILLOW BLOCK PIPE STANDS, MODEL 3-R WITH GALVANIZED STRAP ANCHOR AND ISOLATION PAD BELOW THE PIPE STAND(S). INSTALL PIPE STANDS PER THE MANUFACTURER'S RECOMMENDATIONS.

16.6.7 GAS PIPING SHALL BE SUPPORTED AT ALL VALVES, FITTINGS, CHANGES IN DIRECTION AND AT 10' O.C. AND SHALL NOT DEFLECT WHEN VALVES ARE OPENED AND CLOSED.

16.6.8 SLOPE GAS PIPING AT 1/8" PER FT. UPWARD IN THE DIRECTION OF FLOW. INSTALL A FULL SIZE DIRT LEG AT EACH LOW POINT IN THE SYSTEM.

16.6.9 CONTRACTOR SHALL INSPECT, TEST AND PURGE THE GAS PIPING SYSTEM IN ACCORDANCE WITH NFPA 54 AND LOCAL UTILITY REQUIREMENTS PRIOR TO CONNECTION TO THE GAS METER.

THIS CONTRACTOR SHALL ENGAGE THE SERVICES OF AN AABC OR NEBB CERTIFIED TEST & BALANCE CONTRACTOR TO ADJUST AND COMPLETELY BALANCE THE INSTALLED SYSTEM(S) TO THE DESIGN AIR QUANTITIES. THE BALANCING CONTRACTOR SHALL PROVIDE AAP WITH A COPY OF THE CERTIFIED TEST & BALANCE REPORT SHOWING DESIGN AND MEASURED AIR QUANTITIES, STATIC PRESSURES, FAN MOTOR RPM AND MOTOR CURRENT. DEVIATION BETWEEN DESIGN AND MEASURED QUANTITIES SHALL NOT BE GREATER THAN 10%.

ALL MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY AAP. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AS SPECIFIED HEREIN.

18.1 DEFECTS IN EQUIPMENT AND/OR MATERIALS

18.1.1 FOR EQUIPMENT AND/OR MATERIALS PURCHASED OR PROVIDED UNDER A NATIONAL ACCOUNT AGREEMENT, THE CONTRACTOR SHALL COORDINATE REPLACEMENT AND/OR REPAIR, AND ANY ASSOCIATED COSTS, FEES, OR CHARGES WITH THE APPROPRIATE NATIONAL ACCOUNT REPRESENTATIVE. REFER TO SHEET T1 OF THE DRAWINGS FOR ACCOUNT REPRESENTATIVE CONTACT DATA.

18.1.2 FOR EQUIPMENT AND/OR MATERIALS NOT PURCHASED OR PROVIDED UNDER A NATIONAL ACCOUNT, THE CONTRACTOR SHALL PROVIDE REPLACEMENT AND/OR REPAIR AND ANY ASSOCIATED COSTS, FEES, OR CHARGES. AT NO ADDITIONAL COST TO AAP.

18.2 FOR THE SAME PERIOD, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE PREMISES BY DEFECTS IN HIS WORKMANSHIP OR WORK AND/OR EQUIPMENT INSTALLED BY OTHERS UNDER HIS CONTRACT.

NOT USED

PROVIDE LISTED FIRESTOPPING AT ALL PENETRATIONS THROUGH RATED WALLS, FLOORS, PARTITIONS, ETC.

ENERGY MANAGEMENT SYSTEM

21.1 AAP VENDOR TELETROL SHALL COMPLETE ALL WORK FOR THE EMS IN ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES GOVERNING WORK TO BE PERFORMED.

21.2 MECHANICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL REQUIRED INTERFACE DEVICES TO PROVIDE FOR A 24 VAC CONVENTIONAL THERMOSTAT WIRING INTERFACE CONSISTING OF A MINIMUM OF R, G, Y1, Y2, W1 AND W2 CONTROL WIRING FOR EACH RTU.

.3 MECHANICAL CONTRACTOR SHALL ORDER HONEYWELL THERMOSTATS. NO SUBSTITUTIONS ALLOWED. MECHANICAL CONTRACTOR WILL INSTALL THERMOSTATS AND ALL 18/8 WIRING FOR EACH RTU.

PLUMBING SPECIFICATIONS

NOTE! MANUFACTURERS' NAMES ON WHICH THIS SPECIFICATION IS BASED INDICATE THE MINIMUM QUALITY OF PRODUCT REQUIRED. SUBSTITUTION MAY BE MADE TO THOSE SPECIFIED IF DEEMED EQUIVALENT BY ADVANCE AUTO PARTS (AAP). ALL WORK AND PRODUCTS SHALL MEET THE REQUIREMENTS OF AAP.

1. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH ALL APPLICABLE CODES AND ADVANCE AUTO PARTS' (AAP) MINIMUM REQUIREMENTS AS STATED HEREIN OR OTHERWISE INDICATED BY AAP.

2. SEE ARCHITECTURAL GENERAL AND SPECIAL CONDITIONS. ALL CONDITION REQUIREMENTS SHALL APPLY UNLESS OTHERWISE NOTED.

3. ALL WORK SHALL BE PERFORMED AS INDICATED ON DRAWINGS UNLESS FIELD CONDITIONS REQUIRE MINOR CHANGES BE MADE. MINOR CHANGES SHALL BE MADE WITH NO ADDITIONAL COST.

4. ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK BY AAP.

5. ACTUAL LOCATIONS OF UTILITY SERVICES MUST BE FIELD VERIFIED. CHANGES TO CONFORM TO ACTUAL POINTS OF CONNECTION SHALL BE MADE AT NO ADDITIONAL COST.

6. EQUIPMENT, FIXTURES, AND ACCESSORIES SHALL NOT BE SUPPORTED FROM CEILINGS, SOFFITS, NEUTRAL PIERS, PIPING, DUCTWORK, ROOF DECK, LATERAL BRACING, BRIDGING OR CONDUIT. ITEMS SHALL ONLY BE SUPPORTED FROM STRUCTURE WHICH HAS BEEN APPROVED FOR SUPPORT.

7. ALL ROOF WORK PENETRATIONS AND REPAIRS SHALL BE TOTALLY PERFORMED BY ONLY THOSE ROOFING CONTRACTORS APPROVED BY AAP. THIS CONTRACTOR SHALL ONLY EMPLOY ROOFING CONTRACTORS APPROVED BY AAP FOR ALL REQUIRED ROOF WORK.

8. DEFICIENCIES AND NON-CONFORMING ITEMS SHALL BE CORRECTED BY THE CONTRACTOR. FAILURE TO CORRECT SUCH ITEMS SHALL PERMIT AAP TO CORRECT SAME AT A COST TO THE CONTRACTOR.

9. INSTALLATIONS OF EQUIPMENT, i.e. FLOOR DRAINS, WATER HEATERS, ETC., SHALL CONFORM TO THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE CODES.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS AND PAYING FOR SAME. HE SHALL INCLUDE IN HIS BID CHARGES FOR ALL FEES ASSOCIATED WITH THE CONSTRUCTION OF THE SPACE INCLUDING BUT NOT LIMITED TO LOCAL, COUNTY, OR STATE SERVICE CHARGES AND PERMIT FEES.

11. THE CONTRACTOR SHALL PREPARE AND SUBMIT AS-BUILT DRAWINGS TO AAP. THE AS-BUILT DRAWINGS SHALL INDICATE THE ACTUAL MANUFACTURER OF THE EQUIPMENT THAT WAS INSTALLED, THE EXACT LOCATION OF THE EQUIPMENT AND PERTINENT CAPACITIES.

12. SCOPE OF WORK:

12.1 THE WORK INCLUDES FURNISHING ALL LABOR, MATERIALS, SUPPLIES, EQUIPMENT AND FEES REQUIRED TO COMPLETELY INSTALL, TEST AND PLACE INTO SERVICE THE HEREIN SPECIFIED EQUIPMENT, COMPONENTS, CONTROLS AND SYSTEMS.

12.1.1 SOIL, WASTE AND VENT SYSTEM.

12.1.2 DOMESTIC WATER SYSTEM.

12.1.3 DOMESTIC WATER HEATER.

12.1.4 PLUMBING FIXTURES AND TRIM.

12.1.5 MISCELLANEOUS STEEL WORK, FLOOR AND WALL SLEEVES, SLOTS AND INSERTS, PLATES, SUPPORTS AND HANGERS.

12.1.6 ALL OTHER PLUMBING ITEMS INDICATED ON THE PLANS, SPECIFIED HEREIN, OR NEEDED FOR A COMPLETE AND FUNCTIONAL PLUMBING INSTALLATION IN ACCORDANCE WITH ALL GOVERNING CODES AND REGULATIONS.

12.1.7 CLEANING AND TESTING OF ALL SYSTEMS.

12.1.8 WARRANTY OF ALL WORK FOR A PERIOD OF ONE YEAR.

13. MATERIALS:

13.1 SANITARY DRAIN, WASTE, AND VENT PIPING SHALL BE:

13.1.1 UNDERFLOOR - SERVICE WEIGHT CAST IRON HUB AND SPIGOT SOIL PIPE AND FITTINGS COATED INSIDE AND OUT PER FEDERAL SPECIFICATION WW-P-401. JOINTS SHALL BE MADE WITH DOUBLE SEAL COMPRESSION-TYPE GASKETS EQUAL TO TY-SEAL.

13.1.2 ABOVE FLOOR - HUBLESS CAST IRON PIPE AND FITTINGS COATED INSIDE AND OUT, CIPI-301. JOINTS SHALL BE STAINLESS STEEL SHIELD AND CLAMP WITH NEOPRENE SEALING SLEEVE.

13.1.3 AT THE CONTRACTOR'S OPTION, WITH THE PERMISSION OF AAP, AND IF IN COMPLIANCE WITH GOVERNING CODE, SANITARY DRAIN, WASTE, AND VENT PIPING BOTH ABOVE AND BELOW THE FLOOR MAY BE SCHEDULE 40 PVC WITH SOLVENT CEMENT JOINTS.

13.2 DOMESTIC WATER PIPING SHALL BE (VERIFY WITH ALL CODES:

13.2.1 HIGH-DENSITY CROSS-LINKED POLYETHYLENE TUBING (PEX). DISTRIBUTION SYSTEM SHALL CONFORM TO: ASTM F876, ASTM F877, CSA B 137.5, NSF 61 AND ASTM E84. TUBING SHALL HAVE A STANDARD DIMENSIONAL RATION DESIGNATION (SDR9), WITH 100PSI AT 180 DEG F / 160 PSI AT 73 DEG F PRESSURE/TEMPERATURE RATING. TUBING SHALL HAVE PEX5006 CHLORINE RESISTANCE. TUBING SHALL HAVE A 60 DAY MINIMUM UV RATING.

13.2.2 FITTINGS FOR PEX TUBING SHALL CONFORM TO ASTM F 1807 (OR ASTM F 2159) AND ASTM F877 LEAD-FREE INSERT TYPE WITH COPPER CRIMP RINGS, OR METAL-INSERT TYPE WITH ATTACHED 304 STAINLESS STEEL PRESS SLEEVE, OR PLASTIC-INSERT TYPE WITH ATTACHED 304 STAINLESS STEEL PRESS SLEEVE.

13.2.3 MULTIPLE-OUTLET OR HOMERUN STYLE MANIFOLDS SHALL CONFORM TO ASTM 877, CSA 137.5, SHALL BE COPPER ASSEMBLY WITH BRASS VALVES FOR EACH OUTLET.

13.2.4 ALL TUBING, FITTINGS, MANIFOLDS AND ACCESSORIES SHALL BE BY THE SAME MANUFACTURER. ALL TUBING, FITTINGS, MANIFOLDS AND ACCESSORIES SHALL BE INSTALLED PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SPECIFICATIONS.

13.3 DOMESTIC WATER VALVES SHALL BE:

13.3.1 QUARTER-TURN BRASS BALL VALVE WITH TWO-PIECE BODY, STANDARD PORT, STAINLESS STEEL TRIM, TFE SEATS AND BLOWOUT-PROOF STEM. VALVE SHALL BE RATED FOR 400 PSI/28 BAR NON-SHOCK COLD WORKING PRESSURE. VALVE BALL AND STEM SHALL BE STAINLESS STEEL ASTM A276, TYPE 316. VALVE BODY SHALL BE BRASS ASTM B124 ALLOY C37700 OR BRONZE ASTM B584 ALLOY C8440. ACCEPTABLE MANUFACTURERS FOR BASE BID SHALL INCLUDE NIBCO, WATTS, AND APOLLO.

13.4 PIPING INSULATION:

13.4.1 INSULATE ALL DOMESTIC HOT AND COLD WATER PIPING ABOVE GRADE.

13.4.2 INSULATED PIPING SHALL BE COVERED WITH 1" THICK FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER AND ALL SERVICE JACKET.

13.4.3 FIBERGLASS INSULATION SHALL HAVE 4.0 LB. DENSITY AND 0.25 K-FACTOR.

13.4.4 INSULATED PIPING SHALL HAVE AN ALL SERVICE JACKET EQUAL TO OWENS-CORNING FIBERGLAS ASJ-25 WITH SELF SEALING LAP AND JOINT SEALING STRIPS.

13.4.5 AT THE CONTRACTOR'S OPTION AND WITH THE PERMISSION OF AAP, THE CONTRACTOR MAY PROVIDE PREFORMED PIPE INSULATION OF CLOSED-CELL ELASOMERIC FOAM.

13.4.6 PIPING INSULATION COLORS (INCLUDING INTERIOR ROOF LEADERS, WHEN REQ'D) SHOULD BE WHITE TO THE BOTTOM CHORD OF THE JOISTS, AND BLACK ABOVE THE BOTTOM CHORD.

13.5 DRAINAGE ACCESSORIES:

13.5.1 PROVIDE DEEP SEAL P-TRAP AT THE OUTLET OF EACH FLOOR DRAIN. INSTALL TOP OF FLOOR DRAIN 1/16" BELOW THE FINISHED FLOOR ELEVATION.

13.5.2 INTERIOR FLOOR CLEANOUTS SHALL BE EQUAL TO WADE 6000 SERIES CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, FLANGED FERRULE WITH TAPERED BRASS PLUG AND TY-SEAL OUTLET. FLOOR CLEANOUTS SHALL BE PROVIDED WITH ROUND SECURED NICKEL BRONZE TOP.

13.5.3 WALL CLEANOUTS SHALL BE EQUAL TO WADE 8550E CAST IRON CLEANOUT FERRULE WITH SPIGOT OUTLET AND THREADED BRASS COUNTERSUNK PLUG DRILLED AND TAPPED FOR A 1/4-20 SCREW. PROVIDE CLEANOUT COMPLETE WITH ROUND STAINLESS STEEL ACCESS COVER WITH CENTER SCREW.

13.5.4 EXTERIOR CLEANOUTS IN PAVED AREAS SHALL BE EQUAL TO JOSAM 58850-5-22 CAST IRON CLEANOUT FOR HEAVY TRAFFIC AREAS, WITH CAST IRON ACCESS FRAME, DUCTILE IRON COVER, CAST IRON FERRULE, AND TAPER THREAD BRONZE PLUG. INSTALL CLEANOUT IN AN 18" x 18" x 6" THICK CONCRETE PAD (24" x 18" x 6" THICK FOR TWO-WAY CLEANOUT) FLUSH WITH FINAL GRADE AND THICKENED AT THE CENTER TO ENCASE THE PIPE JOINT.

13.6 WATER HAMMER ARRESTERS:

13.6.1 WATERHAMMER ARRESTERS SHALL BE PROVIDED ON HOT AND COLD WATER LINES, AT INDIVIDUAL FIXTURES AND AT OTHER SUCH LOCATIONS TO BRING THE WATER PIPING SYSTEM INTO CONFORMANCE WITH PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-WH201. ACCEPTABLE MANUFACTURERS SHALL INCLUDE SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WADE, JOSAM, AND J.R. SMITH.

13.7 WATER HEATER SHALL BE AS SCHEDULED ON THE DRAWINGS.

13.8 PLUMBING FIXTURES SHALL BE AS SCHEDULED ON THE DRAWINGS.

14. EXECUTION

14.1 PIPING INSTALLATION

14.1.1 EXCEPT AS OTHERWISE INDICATED, PROVIDE FACTORY FABRICATED HANGERS AND SUPPORTS COMPLYING WITH MSS SP-58, HANGERS AND SUPPORTS SELECTED BY THE INSTALLER TO SUIT FIELD CONDITIONS IN ACCORDANCE WITH MSS SP-69 AND TO MANUFACTURER'S PUBLISHED PRODUCT INFORMATION. USE ONLY ONE TYPE, BY ONE MANUFACTURER FOR EACH SERVICE. SELECT SIZE OF HANGERS AND SUPPORTS TO EXACTLY FIT THE PIPE SIZE FOR BARE PIPING AND TO EXACTLY FIT AROUND PIPING WITH INSULATION PROVIDING A SADDLE OR SHIELD FOR THE INSULATED PIPE. PROVIDE ONLY COPPER PLATED HANGERS AND SUPPORTS FOR COPPER PIPING SYSTEMS.

14.1.2 PIPING SHALL BE SUPPORTED SECURELY FROM HANGERS PER THE FOLLOWING:

14.1.2.1 PIPE HANGERS TO BE SUPPORTED FROM STRUCTURAL STEEL BEAMS AND JOISTS BY MEANS OF BEAM CLAMPS. HANGERS ARE NOT TO BE SUPPORTED FROM STEEL ROOF DECKING.

14.1.2.2 WHERE REQUIRED THE CONTRACTOR SHALL PROIDE AUXILIARY STEEL FRAMING AS REQUIRED TO SUPPORT PIPE HANGERS.

14.1.3 DRAIN, WASTE AND VENT PIPING:

14.1.3.1 CAST IRON PIPE MUST HAVE HANGERS THAT ARE 10'-0" ON CENTER MAXIMUM, WITH A MINIMUM OF ONE HANGER FOR EACH SECTION OF PIPE AND AT ALL CHANGES IN DIRECTION.

14.1.3.2 PVC PIPE SHALL BE SUPPORTED FROM THE STRUCTURE PER THE GOVERNING CODE, WITH A MINIMUM OF ONE HANGER FOR EACH SECTION OF PIPE AND AT ALL CHANGES IN DIRECTION.

14.1.3.3 EACH RISER OR STACK SHALL BE SUPPORTED AT THE BASE, TOP AND AT 10' MAXIMUM INTERVALS.

14.1.3.4 ALL HORIZONTAL DRAINAGE AND VENT PIPING SHALL BE SLOPED AT 1/8" PER LINEAR FOOT (MINIMUM) OR IN COMPLIANCE WITH GOVERNING CODES. SOIL AND WASTE PIPING SHALL SLOPE IN THE DIRECTION OF FLOW AND VENT PIPING SHALL SLOPE AWAY FROM THE STACK.

14.1.3.5 CHANGES IN DIRECTION OR SIZE OF DRAINAGE PIPING SHALL BE MADE WITH APPROPRIATE DRAINAGE PATTERN FITTINGS.

14.1.3.6 SLIP JOINT FITTINGS EQUAL TO TY-SEAL WILL BE PERMITTED ONLY ON TRAP CONNECTIONS.

14.1.4 DOMESTIC WATER PIPING:

14.1.4.1 WATER PIPING SHALL BE SUPPORTED FROM THE STRUCTURE PER THE GOVERNING CODE, WITH A MINIMUM OF ONE HANGER FOR EACH SECTION OF PIPE AND AT ALL CHANGES IN DIRECTION.

14.1.4.2 WATER PIPING SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO THE LINES OF THE BUILDING.

14.1.4.3 PROVIDE FITTINGS AT EACH CHANGE IN DIRECTION OR CHANGE IN PIPE SIZE.

14.1.4.4 PROPER ALLOWANCE SHALL BE MADE FOR EXPANSION AND ALL PIPING SHALL BE BLOCKED AS REQUIRED TO PREVENT NOISE OR VIBRATION.

14.1.4.5 PROVIDE A SHUT OFF VALVE AT EACH WATER CONNECTION TO EACH FIXTURE.

14.1.5 ALL DRAINS SHALL BE PROVIDED WITH A DEEP SEAL P-TRAP.

14.1.6 THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED TO PERFORM HIS WORK. CUTTING AND PATCHING SHALL CONFORM TO THE RELEVANT "GENERAL CONDITIONS" SPECIFICATIONS.

14.1.7 ALL FLOOR AND FOUNDATION WALL PENETRATIONS SHALL BE CORE DRILLED AND PROVIDED WITH A WATERPROOF SLEEVE.

14.1.8 PROVIDE CHROME PLATED CAST BRASS ESCUTCHEON WITH SET SCREWS, DEEP TYPE, TO COVER PIPE SLEEVE OR FITTING PROJECTIONS AT ALL FLOOR, WALL AND CEILING PENETRATIONS.

14.1.9 THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION AND BACKFILL OF TRENCHES AND ANY CONCRETE SLAB REPLACEMENT REQUIRED TO INSTALL BELOW GRADE OR UNDERFLOOR PIPING.

14.1.10 THE ROOF PENETRATION FOR VENT PIPING SHALL BE CUT AND FLASHED IN STRICT ACCORDANCE WITH THE ROOFING MANUFACTURER'S REQUIREMENTS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH THE MANUFACTURER'S REQUIREMENTS. FLASH VENT PIPING PASSING THROUGH THE ROOF WITH #4 SHEET LEAD FLASHING EXTENDING NOT LESS THAN 12" ON EACH SIDE OF THE VENT. THE VERTICAL PORTION OF THE FLASHING SHALL EXTEND UP THE ENTIRE LENGTH OF THE VENT AND AND SHALL BE TURNED DOWN INSIDE THE PIPE.

14.1.11 MINIMUM VENT THROUGH THE ROOF SHALL BE 3" SIZE.

14.2 WATER METER INSTALLATION

14.2.1 THIS CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE LOCAL WATER UTILITY COMPANY FOR THE INSTALLATION OF THE REQUIRED WATER METER. THIS INCLUDES THE PURCHASE OF THE METER AND THE INSTALLATION IN THE LOCATION SHOWN ON THE PLAN OR AS REQUIRED BY THE LOCAL WATER AUTHORITY.

14.2.2 THIS CONTRACTOR SHALL EXTEND DOMESTIC WATER PIPING FROM THE METER LOCATION TO THE BUILDING. ROUTING OF WATER PIPING TO THE BUILDING IS SUBJECT TO THE APPROVAL OF AAP.

14.2.3 THIS CONTRACTOR SHALL PAY ALL FEES REQUIRED FOR THE INSTALLATION OF THE WATER SERVICE AND METER.

15. TESTING

15.1 THIS CONTRACTOR SHALL TEST ALL SYSTEMS INSTALLED UNDER HIS CONTRACT. ALL TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES.

15.1.1 DOMESTIC WATER PIPING SHALL BE TESTED AT 100 PSI. THE PRESSURE SHALL BE MAINTAINED FOR A PERIOD OF ONE HOUR. IF LEAKS APPEAR THE PIPING SHALL BE DRAINED, REPAIRED AND RE-TESTED UNTIL LEAK-FREE.

15.1.2 SOIL, WASTE AND VENT PIPING SHALL BE TESTED WITH WATER. THE WATER SHALL MAINTAIN A CONSTANT LEVEL AT THE HIGHEST POINT OF THE SYSTEM (OR AT LEAST 10 FT. ABOVE THE MEAN ELEVATION OF THE PIPING UNDER TEST, WHICHEVER IS HIGHER) FOR AT LEAST 4 HOURS. IF LEAKS APPEAR, THE PIPING SHALL BE DRAINED, REPAIRED AND RE-TESTED UNTIL LEAK-FREE.

16. DOMESTIC WATER SYSTEMS SHALL BE CHLORINATED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN AWWA C601-08. CHLORINE SHALL BE ADDED TO THE SYSTEM AT A RATE SUFFICIENT TO PRODUCE A CHLORINE CONCENTRATION OF 50 MG/L AVAILABLE CHLORINE AND HELD IN THE SYSTEM FOR A 24 HOUR RETENTION PERIOD. AFTER CHLORINATION THE SYSTEM SHALL BE DRAINED AND PUT INTO SERVICE.

17. ALL MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY AAP. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AS SPECIFIED HEREIN.

17.1 DEFECTS IN EQUIPMENT AND/OR MATERIALS

17.1.1 FOR EQUIPMENT AND/OR MATERIALS PURCHASED OR PROVIDED UNDER A NATIONAL ACCOUNT AGREEMENT, THE CONTRACTOR SHALL COORDINATE REPLACEMENT AND/OR REPAIR, AND ANY ASSOCIATED COSTS, FEES, OR CHARGES WITH THE APPROPRIATE NATIONAL ACCOUNT REPRESENTATIVE. REFER TO SHEET T1 OF THE DRAWINGS FOR ACCOUNT REPRESENTATIVE CONTACT DATA.

17.1.2 FOR EQUIPMENT AND/OR MATERIALS NOT PURCHASED OR PROVIDED UNDER A NATIONAL ACCOUNT, THE CONTRACTOR SHALL PROVIDE REPLACEMENT AND/OR REPAIR AND ANY ASSOCIATED COSTS, FEES, OR CHARGES. AT NO ADDITIONAL COST TO AAP.

17.2 FOR THE SAME PERIOD, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE PREMISES BY DEFECTS IN HIS WORKMANSHIP OR WORK AND/OR EQUIPMENT INSTALLED BY OTHERS UNDER HIS CONTRACT.

18. PROVIDE SEISMIC BRACING FOR ALL EQUIPMENT AND PIPING PER THE APPLICABLE SEISMIC ZONE REQUIREMENTS.

19. PROVIDE LISTED FIRESTOPPING AT ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, PARTITIONS, ETC.

Job No. 23209

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A New Store for
Advance Auto Parts Store # 17061
2056 Genesis Road (Genesis Rd & Interstate Dr Lot #2)
Crossville, TN 38555

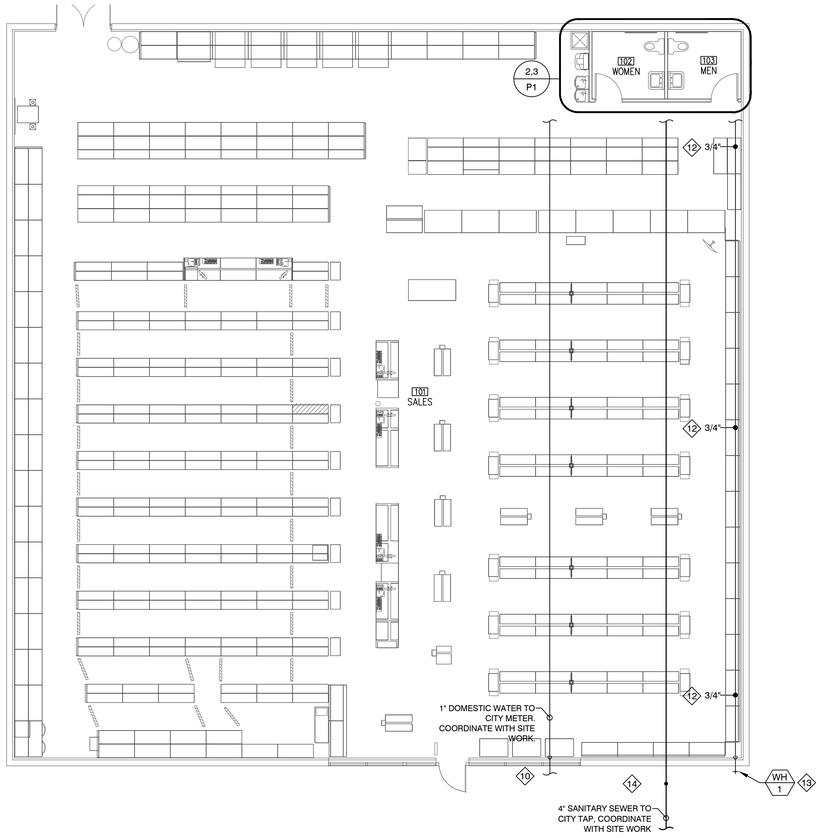
REVISIONS

REV	DATE	DESCRIPTION

Project Number 23-81
Date: 07-10-2023
Drawn by:
Checked by:
CONSTRUCTION DOCUMENTS

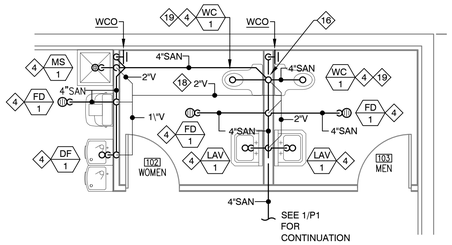
HVAC / PLUMBING SPECIFICATIONS

MP1



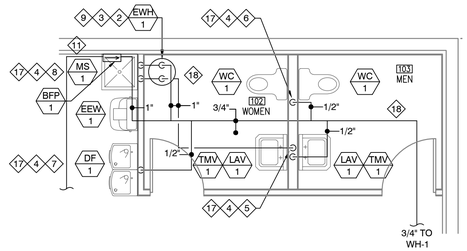
PLUMBING FLOOR PLAN

SCALE: 1/8" = 1'-0"



ENLARGED WASTE & VENT PIPING PLAN

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



ENLARGED WATER PIPING PLAN

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

PLUMBING PLAN KEY NOTES:

1. NOT USED
2. MOUNT THE ELECTRIC WATER HEATER ON THE PLYWOOD PLATFORM ABOVE THE TOILET ROOMS. PROVIDE A 2" DEEP GALVANIZED WATERPROOF SAFE PAN UNDER THE WATER HEATER WITH A 1-1/2" DRAIN LINE TO THE MOP SINK. TERMINATE THE DRAIN LINE WITH A MIN. 3" AIR GAP. ROUTE FULL SIZE T & P RELIEF LINE WITHOUT TRAP TO DISCHARGE INTO THE MOP SINK. TERMINATE THE T & P RELIEF PIPING WITH THE APPROPRIATE AIR GAP. DRAIN LINE AND T & P RELIEF PIPING SHOULD BE CONCEALED IN THE TOILET ROOM WALL AND DISCHARGED LESS THAN 4" ABOVE THE MOP SINK BASIN.
3. PROVIDE A VACUUM RELIEF VALVE EQUAL TO WATTS MODEL LFN36 AT THE HIGH POINT OF THE WATER HEATER SUPPLY PIPING.
4. ROUTE VENT & WATER SUPPLY PIPING AND ALL DRAIN LINES INSIDE THE TOILET ROOM WALL/CHASE. FIELD VERIFY THE REQUIRED HEIGHT OF HORIZONTAL RUNS.
5. 3/4" HW, CW DOWN IN WALL. RUN 1/2" HW, CW PIPING TO EACH LAVATORY.
6. 3/4" CW DOWN IN WALL. RUN 1/2" CW TO EACH WATER CLOSET.
7. 1/2" CW DOWN IN WALL TO DRINKING FOUNTAIN.
8. 3/4" HW, CW DOWN IN WALL TO MOP SINK.
9. 3/4" HW, CW DOWN TO WATER HEATER.
10. 1" UNDERGROUND DOMESTIC COLD WATER SERVICE. REFER TO CIVIL DRAWINGS BY OTHERS FOR CONTINUATION.
11. 1" DOMESTIC COLD WATER RISER. INSTALL ASSEMBLY IN VERTICAL POSITION WHERE ALLOWED TO MINIMIZE FLOOR SPACE. ROUTE TIGHT TO THE WALL TO ABOVE THE BOTTOM CHORD OF THE ROOF BAR JOISTS. PROVIDE A HOUSE VALVE AT 12-24" A.F.F. TO BE ACCESSIBLE. SHUT OFF ABOVE 8'-0" IN SALES AREA. INSULATE PIPING PER THE PLUMBING SPECIFICATIONS ON SHEET MP1.
12. ROUTE PIPING AS HIGH AS POSSIBLE ABOVE THE BOTTOM CHORD OF THE ROOF BAR JOISTS WITH ALLOWANCE FOR SLOPE AS REQUIRED. INSULATE PIPING PER THE PLUMBING SPECIFICATIONS ON SHEET MP1.
13. MOUNT THE WALL HYDRANT AT 24" ABOVE FIN. GRADE. PROVIDE SILICONE SEALANT ALL AROUND THE WALL HYDRANT BOX TO PROVIDE A WATERTIGHT WALL PENETRATION.
14. 4" UNDERGROUND SANITARY SEWER. SLOPE AT 1% MINIMUM. REFER TO CIVIL DRAWINGS BY OTHERS FOR CONTINUATION.
15. NOT USED.
16. 2" VENT UP TO 3" VTR. PROVIDE OFFSET(S) AS REQUIRED TO LOCATE THE V.T.R. MINIMUM 18" FROM THE ROOF EDGE AND AS REQUIRED TO COORDINATE WITH THE ROOF FRAMING. ROUTE HORIZONTAL OFFSET PIPING ABOVE THE BOTTOM CHORD OF THE ROOF BAR JOISTS WITH ALLOWANCE FOR SLOPE AS REQUIRED.
17. RISE/DROP PIPING THROUGH THE PLATFORM FLOOR. FIELD VERIFY THE EXACT LOCATION.
18. ROUTE PIPING THROUGH THE TOILET ROOM CEILING PLENUM AT THE REQUIRED SLOPE. CORE DRILL PLATFORM FRAMING AS REQUIRED. INSULATE PIPING PER THE PLUMBING SPECIFICATIONS ON SHEET MP1.
19. PROVIDE TYLER PIPE DOUBLE COMBINATION WITH 2" SIDE HUB OPENING (UPC #067610-002949, SIZE 4) FOR CONNECTION OF BACK-TO-BACK WATER CLOSETS (WC-1).

PLUMBING GENERAL NOTES:

1. PRIOR TO SUBMITTING A BID, THIS CONTRACTOR AND HIS SUBCONTRACTORS SHALL VISIT THE JOB SITE AND FULLY ACQUAINT THEMSELVES WITH THE EXISTING CONDITIONS OF THE PROJECT. THIS CONTRACTOR AND HIS SUBCONTRACTORS SHALL BE RESPONSIBLE FOR REVIEW OF GENERAL NOTES, SPECIFICATIONS AND ALL OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ADVANCE AUTO PARTS (AAP) OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. THE INSTALLATION SHALL COMPLY WITH, AND BE INSTALLED IN ACCORDANCE WITH ALL LEGALLY CONSTITUTED AUTHORITIES AND CODES HAVING JURISDICTION.
3. DRAWINGS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
4. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING UTILITIES AT THE POINTS OF CONNECTION OF NEW SERVICES BEFORE THE START OF CONSTRUCTION. COORDINATE ALL PIPING WITH BUILDING FOOTINGS, STRUCTURE, FOUNDATIONS, UNDERGROUND UTILITIES BY OTHER TRADES, ETC.
5. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHT OF PLUMBING FIXTURES. PLUMBING FIXTURE LOCATION DIMENSIONS INDICATED ON THE ARCHITECTURAL PLANS OR AS REQUIRED TO COMPLY WITH APPLICABLE ACCESSIBILITY STANDARDS SHALL BE HELD. VERIFY ALL INSTALLATION DIMENSIONS PRIOR TO PIPING OR FIXTURE ROUGH-IN.
6. PROVIDE SHUT OFF VALVES AT ALL PLUMBING FIXTURE WATER SUPPLY CONNECTIONS. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED AND SHALL BE QUARTER-TURN BALL VALVES (NO EXCEPTIONS). REFER TO THE SPECIFICATIONS FOR CLARIFICATION.
7. UNLESS OTHERWISE NOTED, ALL PIPING IN FINISHED AREAS SHALL BE RUN CONCEALED. EXPOSED PIPING, WHERE NECESSARY, SHALL BE RUN AS HIGH AS POSSIBLE AND TIGHT TO WALLS. DO NOT INSTALL DOMESTIC WATER PIPING IN EXTERIOR WALLS.
8. INSULATE HOT AND COLD WATER PIPING PER THE PLUMBING SPECIFICATIONS ON SHEET MP1. PROVIDE PIPE AND VALVE COVERINGS EQUAL TO TRUEBRO "LAV GUARD" ON ALL EXPOSED PIPING UNDER THE LAVATORIES AND WATER CLOSETS.
9. PROVIDE ACCESS PANELS WITH CHROME PLATED COVERS FOR ALL CONCEALED VALVES.
10. THE PLUMBING SYSTEM LAYOUT SHALL BE IN CAREFUL COORDINATION WITH THE DRAWINGS, DETERMINING PROPER ELEVATION FOR ALL COMPONENTS OF THE SYSTEM. THE GENERAL LAYOUT SHALL BE FOLLOWED AS SHOWN ON THE DRAWINGS IN ALL CASES, EXCEPT WHERE OTHER DISCIPLINES MAY INTERFERE.
11. CAP ALL PIPING OPENINGS DURING CONSTRUCTION UNTIL FINAL CONNECTIONS TO EQUIPMENT AND ACCESSORIES ARE MADE.
12. UNLESS OTHERWISE NOTED, SANITARY SEWER PIPING 3" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT AND SANITARY SEWER PIPING 4" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT IN THE DIRECTION OF FLOW.
13. PROVIDE TRAP PRIMER VALVES WHERE REQUIRED BY LOCAL BUILDING CODES. PROVIDE 1/2" COPPER TRAP PRIMER PIPING WITH NO JOINTS UNDER THE FLOOR SLAB TO CONNECT TO THE FLOOR DRAIN P-TRAP. PROVIDE ONE SUPPLY PIPE PER FLOOR DRAIN ROUTED DIRECTLY FROM THE TRAP PRIMER VALVE OR ASSOCIATED DISTRIBUTION UNIT. SLOPE TRAP PRIMER SUPPLY PIPING BELOW THE FLOOR AT 1% MINIMUM IN THE DIRECTION OF FLOW. PROVIDE A 12" x 12" ACCESS PANEL IN THE TOILET ROOM WALL.
14. ALL WORK SHALL BE COORDINATED WITH THE OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
15. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEMS SHALL BE FULLY OPERATIVE AND CODE COMPLIANT.
16. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, INSPECTIONS, TESTS, AND ASSOCIATED FEES.
17. THIS CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
18. PROVIDE FLOOR DRAINS NEAR ALL BACKFLOW VALVES IN PREMISES FOR RELIEF DRAINAGE. IF POSSIBLE LOCATE ASSEMBLY NEAR MOP BASIN, AND DISCHARGE INTO FIXTURE.

0 2' 4' 8'
SCALE: 1/8" = 1'-0"

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

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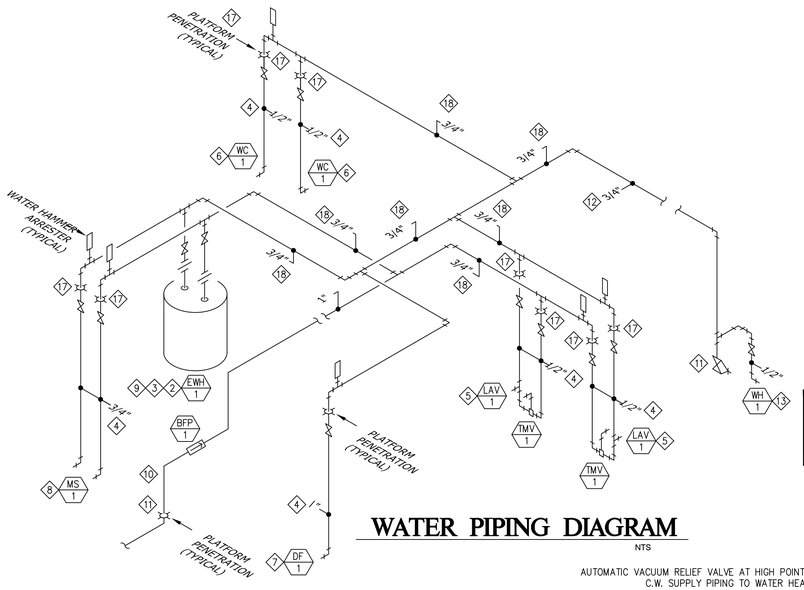
A New Store for
Advance Auto Parts *Store # 17061*
2056 Genesis Road *(Genesis Rd & Interstate Dr Lot #2)*
Crossville, TN 38555

REVISIONS			
REV.	DATE	DESCRIPTION	

Project Number	23-81
Date:	07-10-2023
Drawn by:	
Checked by:	
CONSTRUCTION DOCUMENTS	

PLUMBING FLOOR PLAN

P1



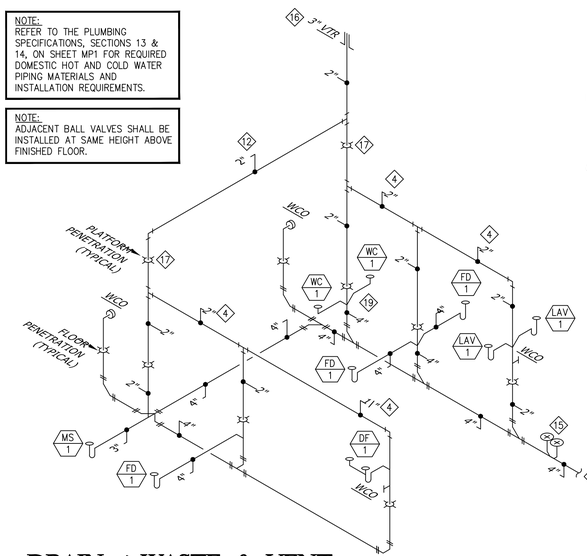
NOTE:
CONSOLIDATE PLUMBING ABOVE THE RESTROOM CEILING TO BE TIGHT TO THE WALL OR CONSOLIDATED AT THE WATER HEATER AREA.

WATER PIPING DIAGRAM

NTS

NOTE:
REFER TO THE PLUMBING SPECIFICATIONS, SECTIONS 13 & 14, ON SHEET MP1 FOR REQUIRED DOMESTIC HOT AND COLD WATER PIPING MATERIALS AND INSTALLATION REQUIREMENTS.

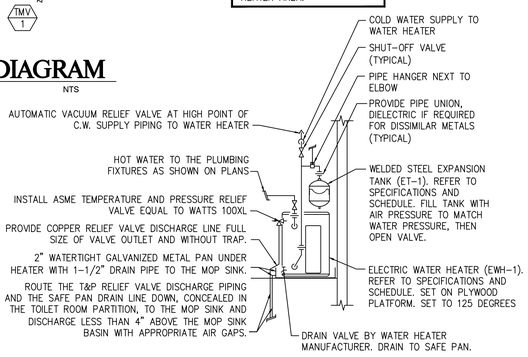
NOTE:
ADJACENT BALL VALVES SHALL BE INSTALLED AT SAME HEIGHT ABOVE FINISHED FLOOR.



DRAIN / WASTE & VENT PIPING ISOMETRIC

NTS

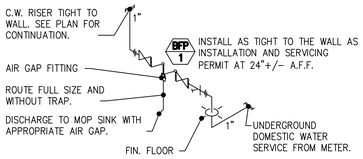
NOTE:
REFER TO THE PLUMBING SPECIFICATIONS, SECTIONS 13 & 14, ON SHEET MP1 FOR REQUIRED DRAIN, WASTE, AND VENT PIPING MATERIALS AND INSTALLATION REQUIREMENTS.



REFER TO SPECIFICATIONS, SCHEDULES AND NOTES FOR MORE INFORMATION. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. VERIFY ALL CONNECTION SIZES AND LOCATIONS PER MANUFACTURERS REQUIREMENTS. ADJUST TO SUIT FIELD CONDITIONS. REFER TO PIPING DIAGRAMS FOR PIPE SIZES. PROVIDE SEISMIC STRAP OR BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES. PROVIDE HEAT TRAPS.

WATER HEATER DETAIL

NTS



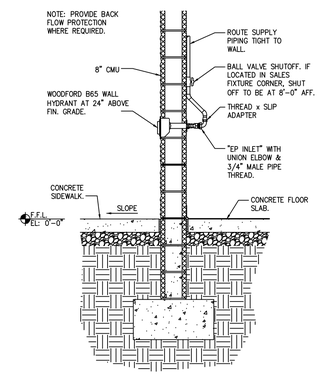
INTERIOR INSTALLATION

6 / P2 BACKFLOW PREVENTER ASSEMBLY DETAIL

SCALE: NONE

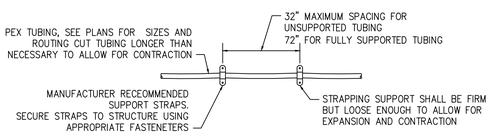
PIPING DIAGRAMS KEY NOTES:

1. NOT USED
2. MOUNT THE ELECTRIC WATER HEATER ON THE PLYWOOD PLATFORM ABOVE THE TOILET ROOMS. PROVIDE A 2" DEEP GALVANIZED WATERPROOF SAFE PAN UNDER THE WATER HEATER WITH A 1-1/2" DRAIN LINE TO THE MOP SINK . TERMINATE THE DRAIN LINE WITH A MIN. 3" AIR GAP. ROUTE FULL SIZE T & P RELIEF LINE WITHOUT TRAP TO DISCHARGE INTO THE MOP SINK. TERMINATE THE T & P RELIEF PIPING WITH THE APPROPRIATE AIR GAP. DRAIN LINE AND T & P RELIEF PIPING SHOULD BE CONCEALED IN THE TOILET ROOM WALL AND DISCHARGED LESS THAN 4" ABOVE THE MOP SINK BASIN.
3. PROVIDE A VACUUM RELIEF VALVE EQUAL TO WATTS MODEL LFN36 AT THE HIGH POINT OF THE WATER HEATER SUPPLY PIPING.
4. ROUTE VENT & WATER SUPPLY PIPING AND ALL DRAIN PIPING INSIDE THE TOILET ROOM WALL/CHASE. FIELD VERIFY THE REQUIRED HEIGHT OF HORIZONTAL RUNS.
5. 3/4" HW, CW DOWN IN WALL. RUN 1/2" HW, CW PIPING TO EACH LAVATORY.
6. 3/4" CW DOWN IN WALL. RUN 1/2" CW TO EACH WATER CLOSET.
7. 1/2" CW DOWN IN WALL TO DRINKING FOUNTAIN.
8. 3/4" HW, CW DOWN IN WALL TO MOP SINK.
9. 3/4" HW, CW DOWN TO WATER HEATER.
10. 1" UNDERGROUND DOMESTIC COLD WATER SERVICE. REFER TO CIVIL DRAWINGS BY OTHERS FOR CONTINUATION.
11. 1" DOMESTIC COLD WATER RISER. INSTALL ASSEMBLY IN VERTICAL POSITION WHERE ALLOWED TO MINIMIZE FLOOR SPACE. ROUTE TIGHT TO THE WALL TO ABOVE THE BOTTOM CHORD OF THE ROOF BAR JOISTS. PROVIDE A HOUSE VALVE AT 12-24" A.F.F. TO BE ACCESSIBLE. SHUT OFF ABOVE 8'-0" IN SALES AREA. INSULATE PIPING PER THE PLUMBING SPECIFICATIONS ON SHEET MP1.
12. ROUTE PIPING AS HIGH AS POSSIBLE ABOVE THE BOTTOM CHORD OF THE ROOF BAR JOISTS WITH ALLOWANCE FOR SLOPE AS REQUIRED. INSULATE PIPING PER THE PLUMBING SPECIFICATIONS ON SHEET MP1.
13. MOUNT THE WALL HYDRANT AT 24" ABOVE FIN. GRADE. PROVIDE SILICONE SEALANT ALL AROUND THE WALL HYDRANT BOX TO PROVIDE A WATERTIGHT WALL PENETRATION.
14. 4" UNDERGROUND SANITARY SEWER. SLOPE AT 1% MINIMUM. REFER TO CIVIL DRAWINGS BY OTHERS FOR CONTINUATION.
15. PROVIDE A TWO-WAY CLEANOUT FLUSH WITH THE FINISHED GRADE. LOCATE WITHIN 5'-0" OF BUILDING EXTERIOR WALL.
16. 2" VENT UP TO 3" VTR. PROVIDE OFFSET(S) AS REQUIRED TO LOCATE THE V.T.R. MINIMUM 18" FROM THE ROOF EDGE AND AS REQUIRED TO COORDINATE WITH THE ROOF FRAMING. ROUTE HORIZONTAL OFFSET PIPING ABOVE THE BOTTOM CHORD OF THE ROOF BAR JOISTS WITH ALLOWANCE FOR SLOPE AS REQUIRED.
17. RISE/DROP PIPING THROUGH THE PLATFORM FLOOR. FIELD VERIFY THE EXACT LOCATION.
18. ROUTE PIPING THROUGH THE TOILET ROOM CEILING PLENUM AT THE REQUIRED SLOPE. CORE DRILL PLATFORM FRAMING AS REQUIRED. INSULATE PIPING PER THE PLUMBING SPECIFICATIONS ON SHEET MP1.
19. PROVIDE TYLER PIPE DOUBLE COMBINATION WITH 2" SIDE HUB OPENING (UPC #067610-002949, SIZE 4) FOR CONNECTION OF BACK-TO-BACK WATER CLOSETS (WC-1).



WALL HYDRANT INSTALLATION DETAIL

NTS



PEX INSTALLATION DETAIL

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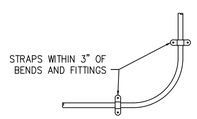


NOTE:
- TUBING SHALL BE SUPPORTED AT EVERY FLOOR
- GUIDELINE ONLY - MANUFACTURER AND INDUSTRY STANDARDS SHALL BE FOLLOWED FOR INSTALLATION

PLUMBING FIXTURE SCHEDULE

REFER TO THE RESPONSIBILITY MATRIX ON SHEET T1 FOR NATIONAL ACCOUNT CONTACT DATA. (NO SUBSTITUTIONS)

MARK	DESCRIPTION
WC 1	AMERICAN STANDARD – MODEL 3517A.101.020 – CADET RIGHT HEIGHT 16-1/2" HEIGHT TOILET WITH WATER SAVER 1.6 GAL. FLUSH, HANDICAPPED ELONGATED BOWL, SIPHON JET FLUSH ACTION, SPEED CONNECT TANK/BOWL COUPLING SYSTEM, VITREOUS CHINA AND 16-1/2" RIM HEIGHT. MEETS ANSI A112.19.2 AND A117.1 REQUIREMENTS. PROVIDE WITH 4188A.104.020 OR 4188A.105.020 TANK . PROVIDE TANK WITH THE TRIP LEVER ON THE PROPER SIDE TO ALLOW FLUSH ACTION FROM THE OPEN SIDE OF TOILET AREA. ● TOILET SEAT TO BE MAINLINE MODEL ML1055SSC WHITE OPEN FRONT ELONGATED TOILET SEAT.
LAV 1	AMERICAN STANDARD – MODEL 0355.012 – LUCERNE. 20-1/2" x 18-1/4" WHITE VITREOUS CHINA LAVATORY WITH FRONT OVERFLOW, WALL HANGER AND FAUCET HOLES ON 4" CENTERS. PROVIDE TRUEBRO LAV GUARD UNDERSINK PROTECTIVE PIPE COVERS (OR EQUAL) ON ALL PIPING UNDER LAVATORY. PROVIDE GRID DRAIN WITH OFFSET TAILPIECE TO LOCATE P-TRAP TIGHT TO WALL. ● FAUCET ASSEMBLY – MAINLINE – MODEL NO. 211-CP – CENTERSET, ONE PIECE BODY WITH POLISHED CHROME FINISH, AERATOR WITH 2.2 GPM FLOW RESTRICTOR, SINGLE LEVER HANDLE AND LIFT-ON/PUSH-OFF ACTION.
MS 1	FIAT – MODEL MSB 2424 – FLOOR MOUNTED MOLDED STONE MOP SINK BASIN. ● FAUCET ASSEMBLY – FIAT – MODEL 830-AA – CHROME PLATED WITH VACUUM BREAKER, 3/4" HOSE OUTLET, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND FOUR ARM HANDLES. ● ACCESSORIES – FIAT MODEL 832-AA HOSE AND HOSE BRACKET FIAT MODEL 889-CC MOP HANGER BRACKET FIAT MODEL E-77-AA VINYL RIM BUMPER GUARD
BFP 1	WATTS – MODEL LF009M2QT-S – REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY (RPZ), 1" SIZE, WITH QUARTER-TURN BALL VALVES AND BRONZE STRAINER. FOR INTERIOR INSTALLATION, PROVIDE WITH MODEL 909AG-C AIR GAP FITTING. EXTEND DISCHARGE PIPING FROM AIR GAP FITTING FULL SIZE AS REQUIRED TO DISCHARGE INTO THE MOP SINK WITH THE APPROPRIATE AIR GAP. FOR EXTERIOR, ABOVE GRADE INSTALLATION, PROVIDE WITH APPROPRIATE "WATTSBOX" OR WATTSROCK" NON-INSULATED, UN-HETED ENCLOSURE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND IN COMPLIANCE WITH GOVERNING CODE.
EEW 1	BRADLEY – MODEL S19-921 – PORTABLE SELF-CONTAINED EMERGENCY EYE WASH STATION, FIFTEEN (15) MINUTE FLUSH TIME AT 0.4 GPM (MIN). SEVEN (7) GALLON TRANSPARENT YELLOW POLYCARBONATE TANK, INPACT-RESISTANT AND CHEMICAL-RESISTANT YELLOW POLYPRPOLENE PEDESTAL. PROVIDE WITH MODEL S19-399 ON-SITE WASTE CART, 56 GALLON CAPACITY, CASTER WHEELS W/ LOCK BRAKES, DRAINAGE PETCOCK. PROVIDE ALL NECESSARY FITTINGS, TUBES, ETC FOR A COMPLETE ASSEMBLY. G.C. RESPONSIBLE FOR INITIAL SET-UP PER MANUFACTURERS RECOMMENDATIONS AND TO SUPPLY ONE (1) YEAR OF SOLUTION.
DF 1	OASIS – MODEL PGACSL – WALL MOUNTED BI-LEVEL DRINKING FOUNTAIN WITH SELF-CLOSING FRONT AND SIDE PUSHBAR ACTUATORS, FLEXIBLE BUBBLER GUARD, EXTERNAL STREAM HEIGHT ADJUSTMENT, STAINLESS STEEL TOP, LEAD-FREE WATERWAY AND CANE APRON. INSTALL PER MFR'S. RECOMMENDATIONS AND IN ACCORDANCE WITH ALL APPLICABLE ACCESSIBILITY STANDARDS.
EWH 1	BRADFORD WHITE – MODEL LE-16U3-1 – ELECTRIC WATER HEATER WITH 6 GALLON CAPACITY, GLASS-LINED TANK WITH 150 PSI WORKING PRESSURE, 2 KW ZINC PLATED COPPER SHEATH IMMERSION TYPE ELEMENT, FACTORY INSTALLED DRAIN VALVE AND FACTORY INSTALLED ANODE ROD, OPERATING AT 120V, SINGLE PHASE. PROVIDE FIELD INSTALLED WATTS MODEL 100XL TEMPERATURE / PRESSURE RELIEF VALVE PIPED TO DISCHARGE AS NOTED ON THE PLANS AND IN ACCORDANCE WITH ALL APPLICABLE CODES. SET WATER HEATER TEMPERATURE CONTROL AT 125 DEG. F.
ET 1	AMTROL – MODEL THERM-X-TROL ST-5 THERMAL EXPANSION TANK WITH FACTORY PRE-CHARGE, POLY-PROPYLENE LINER, 150 PSI MAX. WORKING PRESSURE, 200 DEG. F MAX. TEMPERATURE RATING, 2 GAL. TANK VOLUME, 0.9 GAL. MAX. ACCEPTANCE VOLUME AND 3/4" NPTM CONNECTION. INSTALL PER MFR'S. RECOMMENDATIONS. ADJUST PRE-CHARGE TO SYSTEM FILL PRESSURE.
WH 1	WOODFORD – MODEL B74 – ANTI-SIPHON CLOSE-COUPLED WALL HYDRANT WITH CHROME WATER BOX, ANTI-SIPHON VACUUM BREAKER AND LOOSE TEE KEY. INSTALL AT 24" ABOVE FINISHED GRADE. PROVIDE LOOSE TEE KEY TO ADVANCE AUTO PARTS REPRESENTATIVE AT PROJECT CLOSE-OUT.
TMV 1	WATTS – MODEL MMV-M1 – HOT WATER TEMPERATURE CONTROL VALVE WITH BRONZE BODY CONSTRUCTION, SOLID WAX HYDRAULIC PRINCIPLE THERMOSTAT THAT CONTROLS BOTH HOT AND COLD WATER, INTEGRAL FILTER WASHERS AND CHECK VALVES, AND ADJUSTMENT CAP WITH LOCKING FEATURE. INSTALL INSIDE THE WALL WITH A 12"x12" ACCESS COVER. SET TO PROVIDE MAXIMUM 105 DEG. F HOT WATER TO THE LAVATORY FAUCETS. MIXING VALVE TO BE ASSE 1017 CERTIFIED.
WH 1	WOODFORD – MODEL B65 – FREEZEPROOF ANTI-SIPHON CLOSE-COUPLED WALL HYDRANT WITH CHROME WATER BOX, ANTI-SIPHON VACUUM BREAKER AND LOOSE TEE KEY. INSTALL AT 24" ABOVE FINISHED GRADE. PROVIDE LOOSE TEE KEY TO ADVANCE AUTO PARTS REPRESENTATIVE AT PROJECT CLOSE-OUT.
FD 1	WADE – MODEL 1103,TY,G6,1 – CAST IRON FLOOR DRAIN WITH FLANGE, INTEGRAL CLAMPING COLLAR, SEEPAGE OPENINGS, 1/2" PLUGGED PRIMER TAP AND ADJUSTABLE 6" x 6" NICKEL BRONZE STRAINER WITH VANDAL PROOF SCREWS.
TP 1	PRECISION PLUMBING PRODUCTS, INC. – MODEL PR-500 PRIME RITE – AUTOMATIC TRAP PRIMER VALVE. INSTALL PER MFR'S. INSTRUCTIONS. SLOPE UNDERFLOOR TRAP SUPPLY PIPING AT 1% MIN. IN THE DIRECTION OF FLOW.

PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND

A.F.F.	ABOVE FINISHED FLOOR
C.L.; ℄	CENTERLINE
COL.	COLUMN
CONTR.	CONTRACTOR
C.W.	COLD WATER
DEL.	DELIVERY
DF	DRINKING FOUNTAIN
DN.	DOWN
DOM.	DOMESTIC
ET	THERMAL EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FIN. FL.	FINISHED FLOOR
FLA	FULL LOAD AMPS
HP	HORSE POWER
H.W.	HOT WATER
LAV	LAVATORY
MSB	MOP SINK BASIN
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
P.D.	PRESSURE DROP
RPZ	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
SAN.	SANITARY
T&P	TEMPERATURE AND PRESSURE
TP	TRAP PRIMER
TYP.	TYPICAL
UR	URINAL
V.T.R.	VENT THRU ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTER

COLD WATER PIPING
HOT WATER PIPING
SOIL/SEWER/WASTE PIPING
VENT PIPING
UNION
STRAINER
FLOOR PENETRATION
BACKFLOW PREVENTER
PIPE RISER
PIPE DROP
SHUT OFF VALVE
CHECK VALVE
POINT OF CONNECTION/ELEVATION/INVERT
XX / X — EQUIPMENT TYPE / EQUIPMENT MARK — EQUIPMENT DESIGNATION
X — KEYED NOTES ON DRAWING
X — DRAWING REVISIONS

NOTE: THIS LEGEND IS FOR REFERENCE ONLY. NOT ALL SYMBOLS AND ABBREVIATIONS WILL BE USED. NOT ALL SYMBOLS AND ABBREVIATIONS USED ARE INCLUDED IN LEGEND. IF QUESTIONS ARISE DUE TO THE USE OF ANY

J&S Construction Co. Inc.
1843 Foreman Drive
Cookeville, TN. 38501
931-528-7475
jsconstruction.com

A New Store for
Advance Auto Parts Store # 17061
2056 Genesis Road (Genesis Rd & Interstate Dr Lot #2)
Crossville, TN 38555

REVISIONS		
REV	DATE	DESCRIPTION

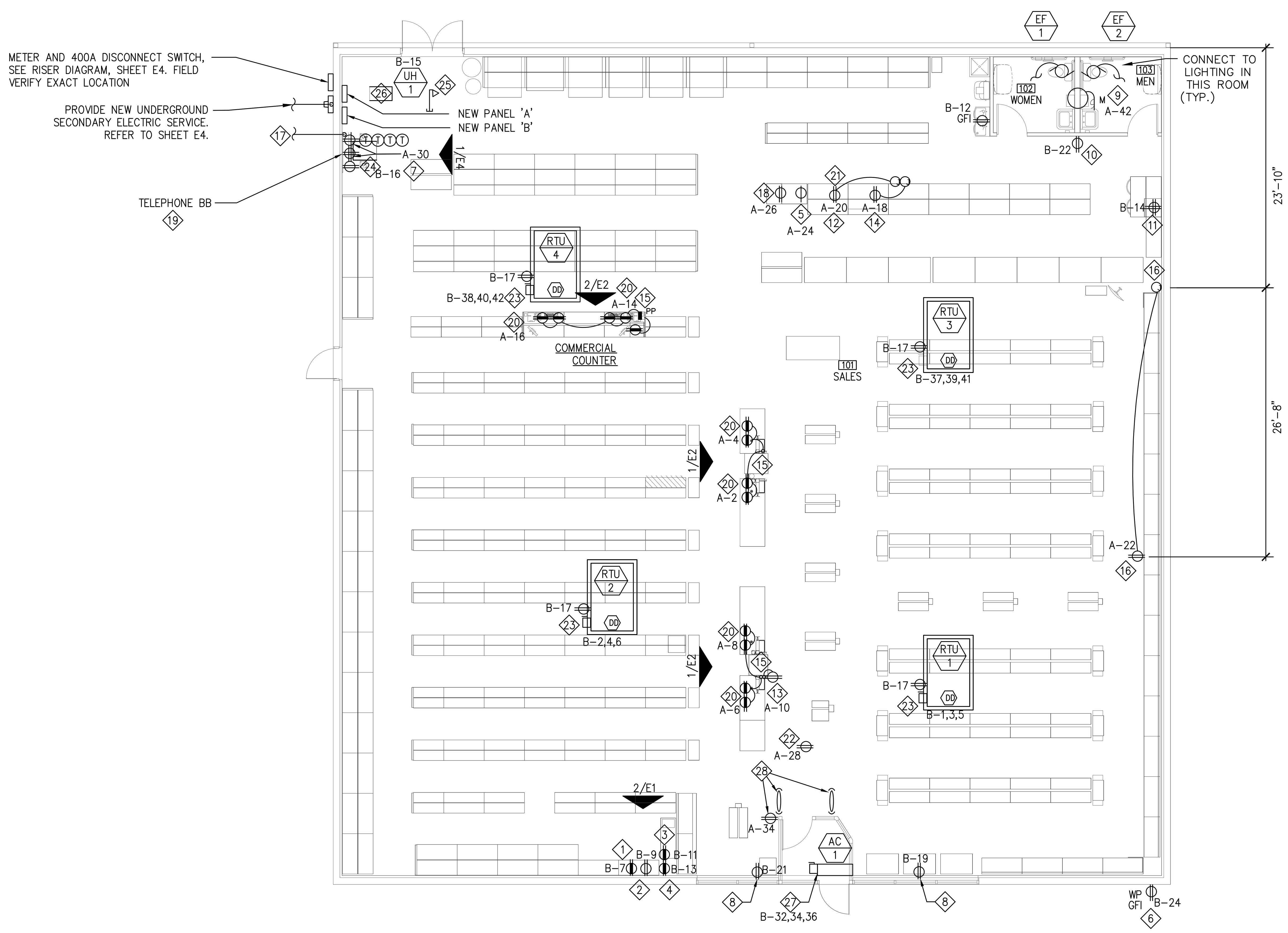
Project Number	23-81
Date:	07-10-2023
Drawn by:	
Checked by:	
CONSTRUCTION DOCUMENTS	

FRANK M. MONTGOMERY — REGISTERED ENGINEER — AGRICULTURE — STATE OF TENNESSEE

PLUMBING SCHEDULES & DETAILS

P2

MONTGOMERY ENGINEERING PLLC
Electrical and Mechanical Construction Engineers
1191 Nashville Pike, Gallatin, TN 37066
615.230.9089 www.montgomeryengineering.com
Job No. 23209



ELECTRICAL POWER PLAN

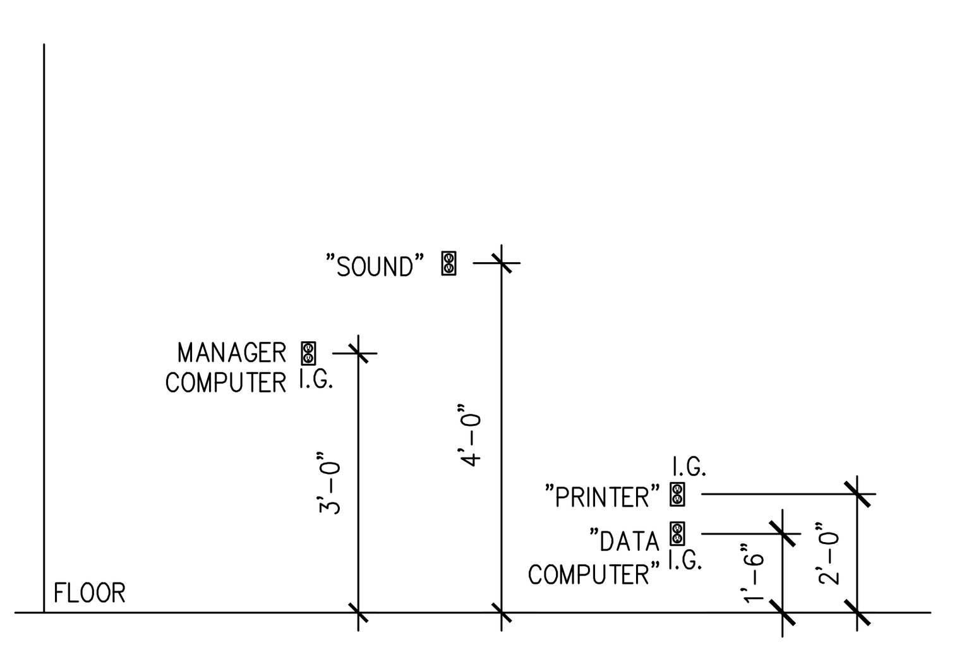
SCALE: 1/8" = 1'-0"

NOTE TO CONTRACTOR:
THERE IS ONLY 8'-0" OF WALL SPACE ALLOTTED FOR ELECTRICAL EQUIPMENT INCLUDING EMS PANEL. THIS 8'-0" OF WALL SPACE SHALL NOT BE EXCEEDED AND THE PANELS SHALL BE INSTALLED IN LOCATIONS AS SHOWN.

POWER GENERAL NOTES:
1. PROVIDE NEW RECEPTACLES AND COVERS. COLOR SHALL BE WHITE.
2. ELECTRICAL CONTRACTOR SHALL PLACE CONDUIT DROPS AFTER COUNTERS ARE SET.

NOTE TO CONTRACTOR:
G.C. TO PLAN FOR AND INSTALL APPROXIMATELY 5 CONDUIT DROPS AND J-BOXES FOR THE INSTALLATION OF EMS, ADT CCTV, SECURITY / ALARM DEVICES. CONDUIT INSTALLATION TO BE COORDINATED WITH LOW VOLTAGE TECH'S WHILE ON SITE. CONDUITS AND BOXES TO BE PAINTED.

OUTLET LOCATIONS WHERE OFFICE DESK IS ADJACENT TO STOREFRONT GLAZING
MOUNT UNISTRUT TO THE BACK OF THE UPRIGHT AND RUN WIRE OVER HEAD SO THAT IT DROPS DOWN FROM THE CEILING IN A CONDUIT OR POWER POLE. AFTER RUNNING THE CONDUIT DOWN TO THE UNISTRUT, MOUNT THE RECEPTACLES TO THE UNISTRUT AT HEIGHTS AS SHOW BELOW.



OFFICE OUTLET ELEVATIONS

NTS

POWER PLAN KEYED NOTES

1. FURNISH AND INSTALL ONE (1) I.G. DUPLEX RECEPTACLE FOR MANAGER COMPUTER. MOUNT @36" AFF. SEE DETAIL 2/E1. LABEL RECEPTACLE "COMPUTER".
2. FURNISH AND INSTALL ONE (1) DUPLEX RECEPTACLE FOR SOUND SYSTEM. MOUNT @48" AFF. SEE DETAIL 2/E1. LABEL RECEPTACLE "SOUND".
3. FURNISH AND INSTALL ONE (1) DUPLEX RECEPTACLE FOR LASER PRINTER. MOUNT @24" AFF. SEE DETAIL 2/E1. LABEL RECEPTACLE "PRINTER".
4. FURNISH AND INSTALL ONE (1) I.G. DUPLEX RECEPTACLE FOR DATA EQUIPMENT. MOUNT @18" AFF. SEE DETAIL 2/E1. LABEL RECEPTACLE "DATA".
5. ALTERNATOR STARTER TESTER 20 AMP, 120V SINGLE STRAIGHT BLADE RECEPTACLE. CIRCUIT SHALL BE ON A DEDICATED CIRCUIT. LABEL OUTLET.
6. FURNISH AND INSTALL ONE (1) 20A, 125V GROUND FAULT CIRCUIT INTERRUPTER (GFCI) DUPLEX RECEPTACLE WITH IN-USE WEATHERPROOF COVER. MOUNT + 24" AFF NEXT TO WALL HYDRANT.
7. ON TELEPHONE AND SECURITY EQUIPMENT BACKBOARD, INSTALL TWO (2) QUADRAPLEX RECEPTACLES, SIDE BY SIDE AND 6" APART. PROVIDE DEDICATED CIRCUIT WITH LOCK-ON DEVICE ON BREAKER FOR RECEPTACLES. SEE RISER DIAGRAM AND PANEL SCHEDULES ON SHEET E4 FOR CLARIFICATION.
8. PROVIDE RECEPTACLE MOUNTED ABOVE STOREFRONT AS REQ'D BY NEC CODE. INSTALLATION OF THE J-BOX AND POWER FOR THE SIGN RUN IS BY THE ELECTRICAL CONTRACTOR. COORDINATE FINAL LOCATION WITH SIGN VENDOR.
9. FURNISH AND INSTALL A 30A TOGGLE SWITCH FOR WATER HEATER SERVICE DISCONNECT. MOUNT +48" ABOVE PLATFORM FLOOR ABOVE RESTROOMS. MAKE FINAL CONNECTIONS TO WATER HEATER. 3/4"C., 2#10, 1#10 GND.
10. FURNISH AND INSTALL ONE (1) DUPLEX RECEPTACLE @24" AFF. FOR FLOOR CLEANER CHARGER. COORDINATE EXACT LOCATION WITH OWNER.
11. FURNISH AND INSTALL ONE (1) QUADRAPLEX RECEPTACLE @36" AFF.
12. FURNISH AND INSTALL ONE (1) DUPLEX RECEPTACLE @48" AFF FOR BATTERY CHARGER.
13. FURNISH AND INSTALL ONE (1) DUPLEX RECEPTACLE FOR DRINK COOLER. FLUSH MOUNT OUTLET BOX IN BASE OF CABINET SO THAT OUTLET IS MOUNTED ON OUTSIDE OF CABINET. DUPLEX RECEPTACLE AND COVER PLATE SHALL BY FACTORY BLACK.
14. FURNISH AND INSTALL A DUPLEX RECEPTACLE @18" AFF FOR WORK BENCH.
15. 2" EMT TO BE USED FOR POWER DROP DOWN TO COUNTER. DRILL 2⅛" HOLE W/BUSHING FOR CONDUIT ENTRY IN COUNTER. SEE COUNTER DETAILS SHEET E2. ISOLATED GROUND CIRCUITS SHALL BE SEPARATE FROM NORMAL POWER CIRCUITS. DO NOT INSTALL EMT OR THE RECEPTACLES IN THE COUNTERS EXCEPT UNDER THE DIRECT SUPERVISION OF THE ADVANCE AUTO PARTS CONSTRUCTION PROJECT MANAGER. CONTRACTOR MAY SCALE DRAWINGS ONLY FOR THE ROUGH-IN LOCATION OF JUNCTION BOXES AND CIRCUITS BEFORE STORE FIXTURES ARE SET.
16. SURFACE MOUNTED JUNCTION BOX, BOTTOM @12" AFF. ELECTRICIAN SHALL RETURN AT DESIGNATED TIME TO INSTALL MC CABLE TO DUPLEX RECEPTACLE IN TOE KICK OF FIXTURE. DUPLEX RECEPTACLE AND COVER PLATE SHALL BE FACTORY BLACK TO MATCH TOE KICK.
17. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH LOCAL UTILITY COMPANY FOR THE INSTALLATION OF THE INCOMING TELEPHONE SERVICE CONDUITS. FURNISH AND INSTALL AT A MINIMUM ONE (1) 4" EMPTY PVC CONDUIT WITH LONG RADIUS STEEL ELBOWS AND A PULL ROPE AS REQUIRED BY LOCAL UTILITY CO. BURY A MINIMUM OF 24" BELOW GRADE FROM POINT AS DIRECTED BY LOCAL UTILITY CO. TO TELEPHONE BACKBOARD INSIDE BUILDING. PROVIDE #6 GROUND AT THE TELEPHONE BOARD AS SHOWN ON DETAIL 1/E4.
18. FURNISH AND INSTALL A DUPLEX RECEPTACLE ON A SEPARATE CIRCUIT FOR BATTERY FAST CHARGER UNIT. LABEL CIRCUITS.
19. PLYWOOD TELEPHONE AND SECURITY EQUIPMENT BACKBOARD BY GENERAL CONTRACTOR. REFER TO ARCHITECTURAL DRAWINGS. PREP/PRIME/PAINT BOARD WITH FIRE RETARDANT GRAY PAINT.
20. FURNISH AND INSTALL ISOLATED GROUND RECEPTACLES AS INDICATED WITH DEDICATED ISOLATED GROUND CIRCUIT(S). ALL ISOLATED GROUND CIRCUITS SHALL BE KEPT SEPARATE FROM NORMAL CIRCUITS. REFER TO SHEET E2 FOR EXACT LOCATIONS.
21. SURFACE MOUNTED JUNCTION BOX, BOTTOM @12" AFF. ELECTRICIAN SHALL RETURN AT DESIGNATED TIME TO INSTALL MC CABLE TO DUPLEX RECEPTACLE IN BATTERY CHARGING STATION. DUPLEX RECEPTACLE AND COVER PLATE SHALL BE FACTORY BLACK.
22. GREETER/SECURITY MONITOR RECEPTACLE. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A DUPLEX RECEPTACLE MOUNTED AT BOTTOM OF BAR JOIST. COORD. EXACT LOC'N W/OWNER PRIOR TO ROUGH-IN.
23. ROOF TOP UNIT FURNISHED WITH SERVICE DISCONNECT SWITCH AND A 20 AMP, 125 VOLT GFCI RECEPTACLE. ALL POWER WIRING SHALL ENTER UNIT THROUGH ROOF CURB TO POWER ENTRY SECTION OF UNIT. ALL POWER WIRING INSIDE UNIT SHALL BE IN FLEXIBLE CONDUIT. RECEPTACLE SHALL BE "LOOSE" AND WIRED BY ELECTRICAL CONTRACTOR TO CIRCUIT AS SHOWN. COORDINATE EXACT LOCATION WITH MECHANICAL.
24. FURNISH AND INSTALL ONE (1) DUPLEX OUTLET FOR IRRIGATION TIMER. VERIFY LOCATION WITH SYSTEM INSTALLER. GENERAL CONTRACTOR TO PROVIDE SLEEVE THROUGH WALL FOR CONTROL WIRES. REFER TO UTILITY DRAWINGS FOR REQUIREMENTS. IRRIGATION TIMER CIRCUIT SHALL BE USED AS REQUIRED FOR RAIN GUAGE.
25. 1" GALVANIZED RIGID STEEL CONDUIT W/ WEATHERHEAD ON ROOF FOR SATELLITE DISH CABLE (DISH AND CABLE BY OWNER VENDOR). CONDUIT SHALL PENETRATE ROOF AND EXTEND BELOW BAR JOIST. SECURE TO JOIST IN TWO PLACES FOR A STURDY MOUNT.
26. NOT USED.
27. AIR CURTAIN FURNISHED WITH SERVICE DISCONNECT SWITCH AND THERMOSTAT. CONNECT TO CIRCUIT INDICATED.
28. NEW EAS SYSTEM. G.C. TO LOCATE DUPLEX AND POWER MODULES AS REQUIRED BY EAS SUPPLIERS. COORDINATE WITH C.M. AND VENDOR FOR ADDITIONAL INFORMATION. LOCATION SHOW FOR REFERENCE ONLY.

ELECTRICAL ABBREVIATIONS

AAP	ADVANCE AUTO PARTS	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	NIC	NOT IN CONTRACT
A	AMPERE	O.C.	ON CENTER
AWG	AMERICAN WIRE GAUGE	PH	PHASE
CB	CIRCUIT BREAKER	PNL	PANEL
ELEC	ELECTRICAL CONTRACTOR	SPECS	SPECIFICATIONS
EQUIP	EQUIPMENT	SW	SWITCH
ETR	EXISTING TO REMAIN	TEL	TELEPHONE
FA	FIRE ALARM	TYP	TYPICAL
FOIC	FURNISHED BY OWNER, INSTALLED BY ELEC. CONTR.	U.C.	UNDER COUNTER
G,GND	GROUND	U.O.N.	UNLESS OTHERWISE NOTED
GFI	GROUND FAULT INTERRUPTER	V	VOLT
GRMC	GALVANIZED RIGID METAL CONDUIT	W	WIRE
HP	HORSEPOWER	WP	WEATHERPROOF
IG	ISOLATED GROUND	XFMR	TRANSFORMER
J-BOX	JUNCTION BOX	RTU	ROOF TOP UNITS

ELECTRICAL POWER LEGEND

(ALL SYMBOLS MAY NOT NECESSARILY BE USED ON PROJECT).

SYMBOL:	DESCRIPTION:
⏀	20 AMP, 125 VOLT DUPLEX RECEPTACLE MOUNTED 18" A.F.F., U.N.O. WHITE COLOR.
	QUADRAPLEX RECEPTACLE TWO 20 AMP, 125 VOLT DUPLEX RECEPTACLES MOUNTED 18" A.F.F., U.N.O. WHITE COLOR.
	20 AMP, 125 VOLT DUPLEX RECEPTACLE WITH ISOLATED GROUND MOUNTED 18" A.F.F., U.N.O. ORANGE COLOR.
	QUADRAPLEX IG RECEPTACLE TWO 20 AMP, 125 VOLT DUPLEX RECEPTACLES WITH ISOLATED GROUND MOUNTED 18" A.F.F., U.N.O. ORANGE COLOR.
	SPECIAL PURPOSE RECEPTACLE. REFER TO PLAN FOR SPECIFICATION.
	20 AMP, 277 VOLT SINGLE POLE SWITCH MOUNTED 48" A.F.F. U.N.O. WHITE COLOR
M	20 AMP, 277 VOLT SINGLE POLE MANUAL MOTOR STARTER DISCONNECT SWITCH. MOUNTED 48" A.F.F., U.N.O.
	TIMED OVERRIDE SWITCH. MOUNT AT 48" A.F.F. SEE DETAIL 2/E4 FOR SPECIFICATION.
J	JUNCTION BOX. SEE PLAN FOR REQUIREMENTS
	ELECTRICAL PANEL BOX. SEE PANEL SCHEDULES FOR REQUIREMENTS
	ELECTRIC MOTOR. MAKE FINAL CONNECTIONS
	ELECTRICAL DISCONNECT SWITCH. SEE PLANS FOR SPECIFICATION
	ELECTRICAL MOTOR STARTER / DISCONNECT SWITCH. SEE PLANS FOR SPECIFICATION
A-32	PANELBOARD AND CIRCUIT DESIGNATION. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT AND CIRCUIT ROUTINGS BACK TO PANELBOARDS. CONTRACTOR MAY GROUP CIRCUITS WHICH EVER MAY BE THE CHEAPEST ROUTING METHOD. NO MORE THAN 3 CIRCUITS PER HOMERUN. NEUTRAL CONDUCTOR MAY ONLY SERVE THREE HOT CONDUCTORS OF DIFFERENT PHASES. CONTRACTOR IS RESPONSIBLE FOR ALL VOLTAGE LOSS AND CABLE DERATING PER N.E.C.
#	VOICE OUTLET BOX. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A 4 11/16" SQUARE OUTLET BOX WITH SINGLE GANG PLASTER RING. INSTALL A 3/4" EMPTY CONDUIT WITH PULL STRING UP TO 12" ABOVE SUSPENDED CEILING OR JOIST SPACE (IF NO CEILING EXIST). PROVIDE INSULATED BUSHING ON EACH END OF CONDUIT. # INDICATES CABLE NUMBER.
#	DATA OUTLET BOX. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A 4 11/16" SQUARE OUTLET BOX WITH SINGLE GANG PLASTER RING. INSTALL A 3/4" EMPTY CONDUIT WITH PULL STRING UP TO 12" ABOVE SUSPENDED CEILING OR JOIST SPACE (IF NO CEILING EXIST). PROVIDE INSULATED BUSHING ON EACH END OF CONDUIT. # INDICATES CABLE NUMBER.
T	RTU THERMOSTAT LOCATION. TEMPORARY THERMOSTATS TO BE PROVIDED & INSTALLED BY M.C. MOUNT AT 5'-7" AFF. TELETROL WILL REPLACE TEMPORARY THERMOSTATS DURING EMS INSTALLATION.
CO2	CO2 SENSOR. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT AND OUTLET BOX AS REQUIRED. COORDINATE ALL REQUIREMENTS W/ HVAC CONTRACTOR.
DD	FACTORY INSTALLED DUCT SMOKE DETECTOR.

GENERAL NOTES

A. ELECTRICIAN IS TO RETURN TO THE JOB ON A DESIGNATED DAY TO:
 * INSTALL ALL REQUIRED RECEPTACLES IN THE COUNTERS AS SHOWN.
 * INSTALL RECEPTACLES FOR SUSPENDED GREETER MONITOR.

B. ALL LOW VOLTAGE CABLES ARE FURNISHED AND INSTALLED BY ADVANCE AUTO AUTO PARTS NATIONAL ACCOUNT VENDOR. IF REQUIRED, CONTRACTOR TO PULL THE LOW VOLTAGE PERMIT FOR THE VENDOR AND VENDOR WILL REIMBURSE THE COST OF THE PERMIT.

C. THE STORE MERCHANDISE PLAN IN THIS SET IS FOR THE CONTRACTOR'S REFERENCE ONLY. ADVANCE AUTO PARTS WILL SUPPLY AND INSTALL ALL STORE FIXTURES.

D. BEFORE SUBMITTING THE PROPOSAL FOR HIS WORK, THE CONTRACTOR SHALL VISIT THE SITE. HE SHALL SATISFY HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK AND THE GENERAL CONDITIONS. HE SHALL HAVE FULL KNOWLEDGE AS TO TRANSPORTATION, DISPOSAL, HANDLING AND STORAGE OF MATERIALS, AVAILABILITY OF WATER, ELECTRIC POWER AND ALL OTHER FACILITIES IN THE AREA WHICH WILL HAVE A BEARING ON THE PERFORMANCE OF HIS WORK AND THE CONTRACT FOR WHICH HE SUBMITS A PROPOSAL. FAILURE BY THE CONTRACTOR TO ACQUAINT HIMSELF WITH ALL AVAILABLE INFORMATION SHALL NOT RELIEVE HIM OF ANY RESPONSIBILITY FOR PERFORMING HIS WORK PROPERLY. ADDITIONAL COMPENSATION SHALL NOT BE ALLOWED FOR CONDITIONS INCREASING THE CONTRACTOR'S COST WHICH WERE NOT KNOWN TO OR APPRECIATED BY HIM WHEN SUBMITTING HIS PROPOSAL IF THE CONDITION WAS OBVIOUS AND COULD HAVE BEEN DISCOVERED BY HIM IF HE HAD VISITED THE PROJECT AND HAD THOROUGHLY INFORMED HIMSELF OF ALL EXISTING CONDITIONS WHICH WOULD AFFECT HIS WORK.

E. NO JUNCTION BOXES OR CONDUIT SHALL BE MOUNTED BELOW 12" A.F.F.

HVAC CONTROL KEYED NOTES

M1. CO2 SENSOR MOUNTED AT 6'-0" A.F.F. ON BACK SIDE OF COLUMN. FURNISH AND INSTALL CONDUIT, CONTROL WIRING, AND CONNECT TO EQUIPMENT INDICATED AS REQUIRED. PAINT EXPOSED CONTROL WIRING CONDUIT TO MATCH COLUMN.

0 2' 4' 8'
SCALE: 1/8" = 1'-0"

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A New Store for
Advance Auto Parts Store # 17061
2056 Genesis Road (Genesis Rd & Interstate Dr Lot #2)
Crossville, TN 38555

REV	DATE	DESCRIPTION

REVISIONS

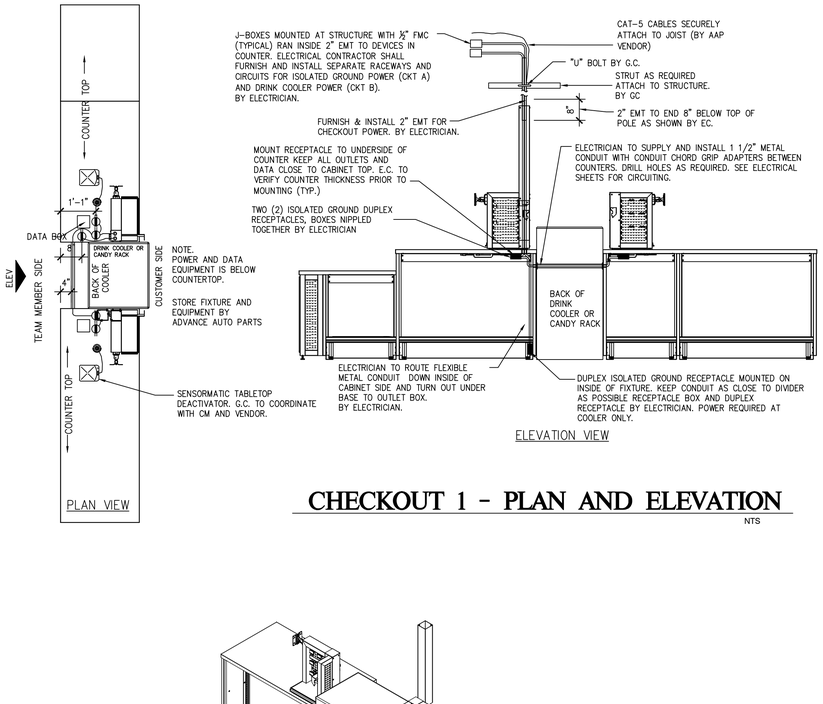
Project Number	23-81
Date:	07-10-2023
Drawn by:	
Checked by:	

CONSTRUCTION DOCUMENTS

ROBERT A. MONTGOMERY
STATE OF TENNESSEE

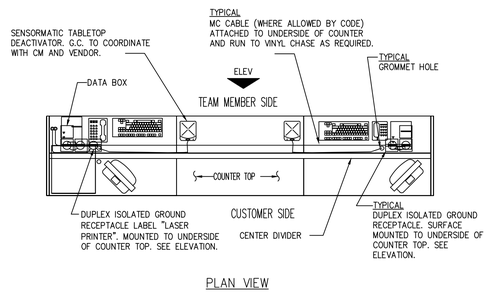
POWER PLAN NOTES & DETAILS

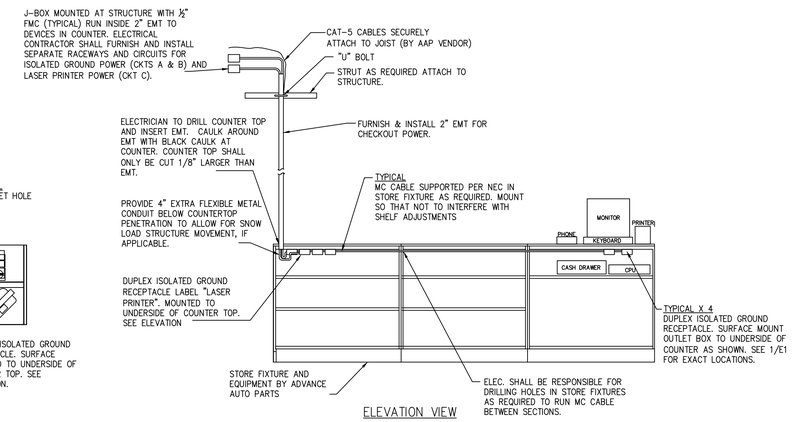
E1



CHECKOUT 1 - PLAN AND ELEVATION

NTS





PROFESSIONAL SALES COUNTER - PLAN AND ELEVATION

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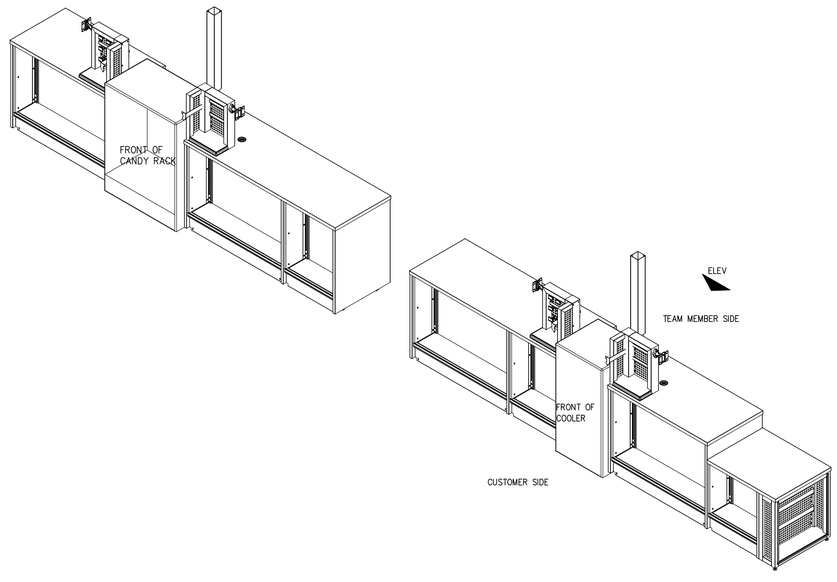

ISOMETRIC AT ALL COUNTERS

NTS

NOTE: THESE DETAILS ARE TYPICAL DETAILS FOR POWER REQUIREMENTS AT ALL COUNTERS. ORIENTATION OF COUNTERS MAY VARY. COUNTERS ARE SUPPLIED AND INSTALLED BY AAP

NOTE: KEEP ALL OUTLETS AND DATA WITH IN 10" OF THE COUNTER SIDE UNLESS OTHERWISE NOTED.

NOTE: SEE SHEET E3 AND A3 FOR LOCATION OF POWER POLES AND ORIENTATION OF COUNTERS

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ROBERT A. MONTGOMERY
LICENSED PROFESSIONAL ENGINEER
STATE OF TENNESSEE

ENLARGED COUNTER DETAILS

E2

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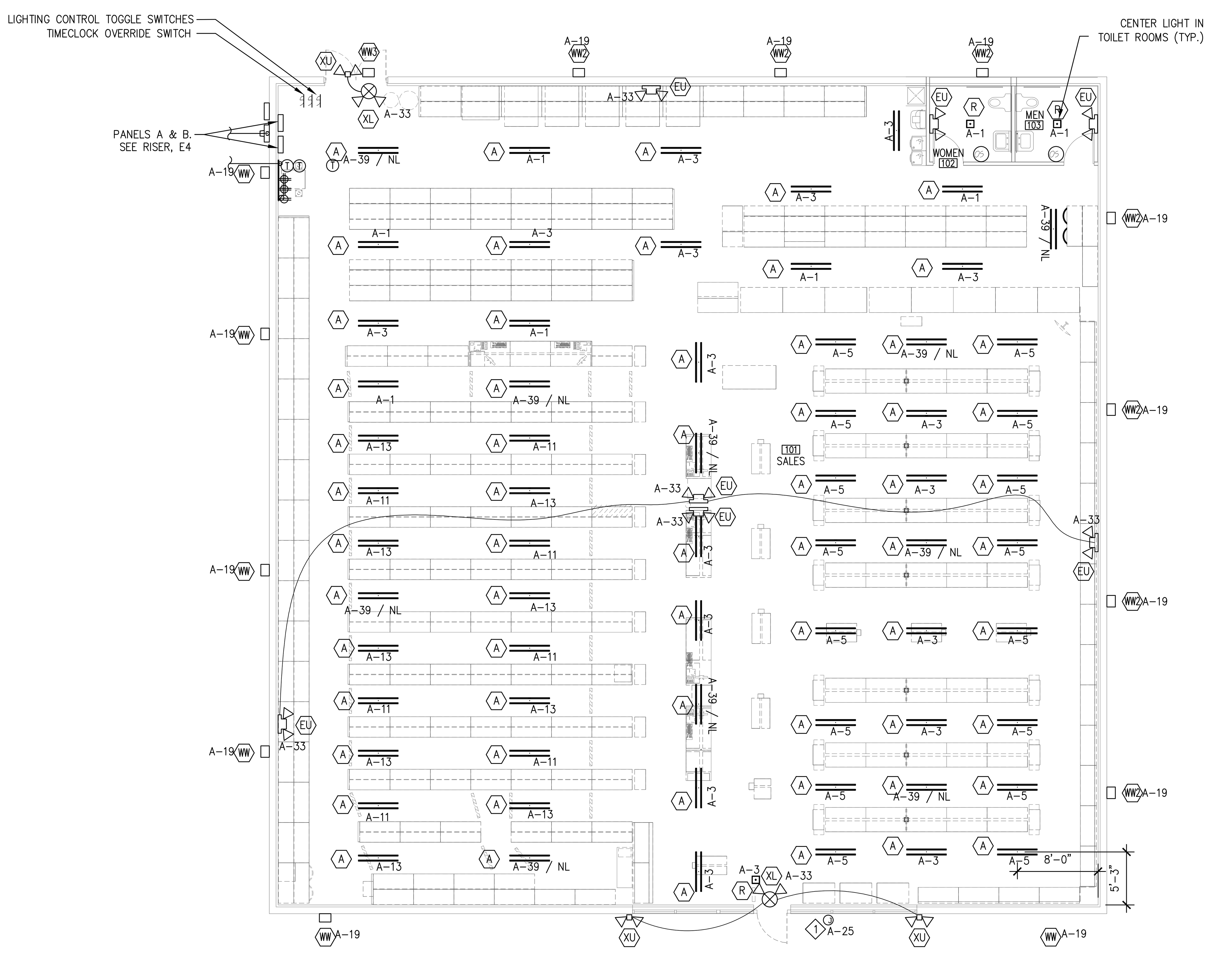

ELECTRICAL LIGHTING PLAN

SCALE: 1/8" = 1'-0"

ELECTRICAL CEILING LEGEND

(ALL SYMBOLS MAY NOT NECESSARILY BE USED ON PROJECT).

SYMBOL:	DESCRIPTION:
	4in.X 48in. LINEAR LED LUMINAIRE
	1X1 SOFFIT LUMINAIRE
	EXIT SIGN WITH BATTERY BACK UP
	INTERIOR EMERGENCY LUMINAIRE
	EXTERIOR DECORATIVE WALL LIGHT
	EXTERIOR WALL PACK
OS	OCCUPANCY SENSOR WITH DUAL TECHNOLOGY (ULTRASONIC AND INFRA RED) AND OFF SWITCH. WALL MOUNT AT 48" AFF. RESTROOMS: HUBBELL #LHMTS1
?	LIGHTING LUMINAIRE SYMBOL TYPE. REFER TO LUMINAIRE SCHEDULE
A-XX	INDICATES PANEL DESCRIPTION & CIRCUIT NUMBERS
	20 AMP, 125 VOLT DUPLEX RECEPTACLE FLUSH MOUNTED IN SUSPENDED CEILING TILE, U.N.O. WHITE COLOR.

LIGHTING PLAN KEYED NOTES

1. PRIOR TO INSTALLATION OF SIGNAGE, ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ONE (1) 20-AMP CIRCUIT TO JUNCTION BOX FOR BUILDING SIGN. J-BOX SHALL BE MOUNTED DIRECTLY BEHIND "u" IN Auto. CLEARLY MARK J-BOX "FOR SIGN COMPANY". SIGN COMPANY TO MAKE ALL FINAL CONNECTIONS TO SIGNS. SEE ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF ALL SIGNS. SIGNS SHALL BE FURNISHED WITH DISCONNECT SWITCH. ELECTRICAL CONTRACTOR SHALL ROUTE CIRCUIT TO PANEL, FINAL CONNECTION TO TIME CLOCK BY ELECTRICAL CONTRACTOR.

NOTE
SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR LIGHTING LOCATION DIMENSIONS

LIGHTING GENERAL NOTES:

1. PROVIDE NEW SWITCHES AND SWITCH COVERS. COLOR SHALL BE WHITE
2. EMERGENCY BATTERY UNITS AND EXIT SIGNS SHALL BE CONNECTED TO THE NORMAL LIGHTING CIRCUIT AHEAD OF ANY SWITCH.
3. ELECTRICAL CONTRACTOR SHALL PLACE OIL/BATTERY LIGHTING AFTER RACK IS SET.
4. ELECTRICAL CONTRACTOR SHALL ADD 5'-0" WHIPS ON ALL MERCHANDISE AREA LIGHT FIXTURES. WHIPS SHOULD BE IN A VERTICAL COIL TIED OFF TO THE PANEL POINTS OF THE JOISTS. THE COIL SHOULD BE UNIFORM AND IN THE SAME LOCATION RELATIVE TO THE OTHER LIGHT FIXTURES IN THAT ROW.
5. SUSPENDING LIGHT FIXTURE HEIGHTS ABOVE FINISH FLOOR MAY VARY AND WILL BE BASED ON EXISTING OVERHEAD CLEARANCES. VERIFY ALL HEIGHT VARIATIONS WITH AAP CM/ARCHITECT PRIOR TO INSTALLING FIXTURES. LIGHT FIXTURE PREFERRED HEIGHT IS 14'-0" AFF. MOUNT AS HIGH AS POSSIBLE ELSEWHERE NOT TO EXCEED 14'-0" A.F.F..
6. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL CONDUITS & CIRCUITING OF LIGHTING BACK TO PANELS. FINAL HOOK TO TIME CLOCK BY ELECTRICAL CONTRACTOR.
7. LIGHTING SHALL BE INSTALLED DOWN CENTER OF AISLES.
8. WHERE EXTERIOR BUILDING MOUNTED LIGHTING OCCURS, RUN THE CONDUIT AT THE JOIST SPACE HEIGHT AND FEED DOWN TO EACH LIGHT JUNCTION BOX.
9. MOUNT EMERGENCY LIGHTING TO BOTTOM OF JOIST.

LUMINAIRE SCHEDULE

(ALL LUMINARIES MAY NOT NECESSARILY BE USED ON PROJECT)

TYPE	QTY.	MANUFACTURER	MODEL NUMBER	LAMPS PER FIXTURE NO.	OSRAM/SYLAVANIA TYPE	WATTS	VOLTAGE	COLOR	MOUNTING	REMARKS
A	67	US LED	ST1-17-UNV-4-27A-35-GL-DE-T8-P-TWS	2	LED	31.8	120	WHITE	14'-0" A.F.F.	NOTES 1,2,3,10
EL	5	LITHONIA	ELM6L UVOLT LTP SDRT	2	(2) 9 WATT KRYPTON INCLUDED	30	6V	WHITE	BOTTOM OF JOIST	CONNECT DC WIRING TO EU FIXTURE, NOTE 6
EU	4	LITHONIA	ELA-T-H0806	2	(2) 8 WATT HALOGEN INCLUDED	16	6V	WHITE	BOTTOM OF JOIST	CONNECT REMOTE FIXTURES TO EL FIXTURE, NOTE 6
R	2	US LED	GTR2-11EH-35-0-PUB-UNV2-700	1	LED	27.5	120/277	WHITE	8'-0" A.F.F. @ RESTROOM // 12'-0" @ VESTIBULE	NOTES 1,2,3
WW2	7	LITHONIA	DSXW1 LED 10C 350 50K T3M MVOLT DSSXD	10	LED	13.21	120	SANDSTONE	REFER TO ARCH. ELEV. FOR MNT'G HT'S	NOTES 1,5 FIXTURE NOT TO BE PAINTED
WW3	1	LITHONIA	DSXW1 LED 10C 350 50K T3M 120 PE DSSXD	10	LED	13.21	120	SANDSTONE	REFER TO ARCH. ELEV. FOR MNT'G HT'S	NOTES 1,5 FIXTURE NOT TO BE PAINTED
WW	6	LITHONIA	DSXW1 LED 20C 700 50K T3M MVOLT DSSXD	20	LED	47	120	SANDSTONE	REFER TO ARCH. ELEV. FOR MNT'G HT'S	NOTES 1,5 FIXTURE NOT TO BE PAINTED
XL	3	LITHONIA	LHQM-S-W-3-R-HO	–	LED – INCLUDED	3	120/277	WHITE W/ RED LETTERS	REFER TO ARCH. ELEV. FOR MNT'G HT'S	NOTES 1,2,7
XU	4	LITHONIA	CLED-IEM2	–	5.4W LAMPS INCLUDED	12	120/277		REFER TO ARCH. ELEV. FOR MNT'G HT'S	CONNECT REMOTE FIXTURES TO "XL", NOTE 7
ET	0	LITHONIA	ELM	2	(2) 5.4 WATT KRYPTON INCLUDED	20	6V	WHITE	REFER TO ARCH. ELEV. FOR MNT'G HT'S	NOTES 1,2,8
S	0	US LED	LINEARSTAR	–	LED	18.5	120V	GRAY	REFER TO ARCH. ELEV. FOR MNT'G HT'S	NOTES 1 LENGTH AS REQUIRED BY SIGN

LIGHT FIXTURE SCHEDULE NOTES:

1. ELEC. SHALL FURNISH AND INSTALL ALL LUMINARIES AND LAMPS AS SPECIFIED. LUMINARIES AND LAMPS SHALL BE ORDERED THROUGH ADVANCE AUTO PARTS NATIONAL ACCOUNT. REFER TO RESPONSIBILITY MATRIX SHEET T1 FOR ORDERING INFORMATION.
2. ELEC. SHALL BE RESPONSIBLE TO SUPPORT LIGHT FIXTURES WITH UNISTRUT THAT IS INSTALLED TO ALLOW FOR ADJUSTMENT OF LIGHT FIXTURES AFTER FIXTURES ARE INSTALLED. LIGHT FIXTURES SHALL BE INSTALLED AS DIRECTED. E.C. IS TO MAKE MINOR ADJUSTMENTS TO CENTER LIGHTING ON AISLES AFTER THE MERCHANDISE FIXTURES ARE SET.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LUMINAIRES.
4. IN "STAGING" DIRECT MOUNT FIXTURE BELOW STRUCTURE, KEEP AS HIGH AS POSSIBLE.
5. J-BOXES SHALL BE MOUNTED ON INTERIOR OF CMU ABOVE CEILING, CONDUIT SHALL BE CONCEALED IN CMU TO FIXTURE ON EXTERIOR.
6. MAXIMUM OF TWO (2) TYPE "EU" (4 INDIVIDUAL REMOTE HEADS) MAY BE CONNECTED TO A SINGLE TYPE "EL" UNIT.
7. MAXIMUM OF TWO (2) TYPE "XU" (4 INDIVIDUAL REMOTE HEADS) MAY BE CONNECTED TO A SINGLE TYPE "XL" UNIT.
8. FOR USE WHEN RESTROOM EMERGENCY LIGHTS ARE REQUIRED BY LOCAL CODE.
9. NOT USED.
10. PROVIDE 5' WHIPS ON FIXTURES "A" LIGHT FIXTURES TO ALLOW ELECTRICIAN TO ADJUST FINAL LOCATION AFTER STORE FIXTURES ARE SET. (SEE LIGHT FIXTURE SCHEDULE NOTE 2 ABOVE) WHIPS SHOULD BE IN A VERTICAL COIL TIED OFF TO THE PANEL POINTS OF THE JOISTS. THE COIL SHOULD BE UNIFORM AND IN THE SAME LOCATION RELATIVE TO THE OTHER LIGHT FIXTURES IN THAT ROW.

0 2' 4' 8'
SCALE: 1/8" = 1'-0"

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LIGHTING PLAN SCHEDULES & DETAILS

E3

ELECTRICAL SPECIFICATIONS

GENERAL:

A. CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS AND PAY ALL FEES REQUIRED FOR THE EXECUTION OF HIS WORK. CONTRACTOR SHALL PROVIDE APPLICABLE CERTIFICATES TO OWNER.

B. THE WORK SHALL INCLUDE FURNISHING ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES TO CONSTRUCT AND INSTALL THE EQUIPMENT AND SYSTEMS NECESSARY TO COMPLETE THE WORK INDICATED ON DRAWING.

C. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE A WORKING INSTALLATION IN EVERY DETAIL AND ALL ITEMS REQUIRED FOR SUCH AN INSTALLATION SHALL BE FURNISHED WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED.

D. THE INSTALLATION SHALL COMPLY WITH THE APPLICABLE ORDINANCES OF THE LOCAL AUTHORITIES. ALL STATE REQUIREMENTS, THE REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS AND THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, ANYTHING IN THESE SPECIFICATIONS OR DRAWINGS TO THE CONTRARY NOTWITHSTANDING.

E. ELECTRICAL EQUIPMENT EXPOSED TO WEATHER SHALL BE WEATHERPROOF.

F. IF FINAL CONSTRUCTION DIFFERS IN ANY WAY FROM ORIGINAL DRAWINGS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING THE OWNER WITH ONE SET OF "AS BUILT" DOCUMENTS WITH CHANGES MARKED IN RED.

G. WHERE REQUIRED FOR APPLICABLE SEISMIC ZONE, PROVIDE SEISMIC RESTRAINTS FOR ALL ELECTRICAL EQUIPMENT, LIGHT FIXTURES, AND ALL CONDUIT 2-1/2" AND LARGER.

H. THE CONTRACTOR SHALL COORDINATE ALL ELECTRIC AND TELEPHONE SERVICE REQUIREMENTS WITH LOCAL UTILITY COMPANIES AND PERFORM ALL WORK IN ACCORDANCE WITH UTILITY STANDARDS.

I. ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

WIRE:

A. ALL WIRE SHALL BE THWN FOR ALL EXTERIOR OR POSSIBLE WET LOCATIONS.

B. ALL WIRE SHALL BE THWN OR THHN FOR ALL INTERIOR OR DRY LOCATIONS.

C. ALL BUILDING WIRE SHALL BE 600 VOLTS COPPER.

D. THE MINIMUM WIRE SIZE FOR POWER AND LIGHTING SHALL BE #12 AWG., FOR CONTROLS #14 AWG.

E. THE USE OF ROMEX SHALL NOT BE PERMITTED.

F. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONDUIT AND WIRE ROUTING. ANY LENGTHS EXCEEDING 75' SHALL HAVE VOLT LOSS CALCULATED AND WIRE SIZES ADJUSTED AS REQUIRED BY CODE.

RACEWAYS:

A. ALL UNDERSLAB OR BELOW GRADE RACEWAYS SHALL BE SCHEDULE 40 PVC CONDUITS WITH RIGID GALVANIZED STEEL "RGS" RISERS TO ABOVE GRADE OR SLAB.

B. ALL CONDUITS INSIDE BUILDING SHALL BE 1/2" ELECTRICAL METALLIC TUBING "EMT" MINIMUM.

C. THE USE OF MC IS PERMITTED IF ALLOWED BY LOCAL AUTHORITY. MC CABLE IS ALLOWED ONLY WHERE CONCEALED IN INDOOR LOCATIONS OR WHERE UNOBTRUSIVELY ATTACHED TO STRUCTURAL MEMBERS.

D. FLEXIBLE METAL CONDUIT MAY BE USED FOR FINAL CONNECTION TO LIGHT FIXTURES AND MOTORS 6' MAXIMUM LENGTH ALLOWED.

E. RIGID OR INTERMEDIATE GALVANIZED STEEL CONDUIT SHALL BE USED FOR ALL EXTERIOR APPLICATIONS ABOVE GRADE.

F. SEALTITE SHALL BE USED FOR ALL EXTERIOR CONNECTIONS

G. ALL RACEWAYS SHALL BE SUPPORTED TO ROOF STRUCTURAL MEMBERS PER N.E.C. NO RACEWAYS SHALL BE ATTACHED DIRECTLY TO ROOF DECK.

H. ALL RACEWAYS SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING WALLS OR FLOORS.

I. PROVIDE PLASTIC BUSHINGS AT OPEN ENDS OF ALL CONDUITS WITH LOW VOLTAGE WIRING.

J. SEAL ALL PENETRATIONS THROUGH WALLS OR FLOORS WITH APPROPRIATE CAULK OR GROUT. SEAL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, OR CEILINGS WITH UL LISTED FIRE STOP COMPOUND.

K. ALL CONDUIT (INCLUDING LOW VOLTAGE) ON INTERIOR WALLS ARE TO BE PAINTED TO MATCH WALL SERVICE.

LUMINAIRES:

A. ALL LIGHT FIXTURES SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR. REFER TO LIGHT FIXTURE SCHEDULE FOR SPECIFICATIONS.

B. ALL LIGHT FIXTURES SHALL BE PURCHASED THROUGH ADVANCE AUTO PARTS ELECTRICAL NATIONAL ACCOUNT VENDOR. REFER TO SHEET T1 FOR VENDOR CONTACT AND ORDERING INFORMATION.

C. ELEC. SHALL BE RESPONSIBLE TO SUPPORT LIGHT FIXTURES WITH UNISTRUT THAT IS INSTALLED TO ALLOW FOR ADJUSTMENT OF LIGHT FIXTURES AFTER FIXTURES ARE INSTALLED. LIGHT FIXTURES SHALL BE INSTALLED DOWN CENTER OF AISLES.

D. REPLACE DEFECTIVE LAMPS AND BALLASTS PRIOR TO PROJECT COMPLETION.

DEVICES:

A. ALL WIRING DEVICES COVER PLATES, ETC. SHALL BE AS SPECIFIED ON POWER LEGEND.

B. POWER EQUIPMENT SHALL BE NEW AND BEAR A U.L. LABEL.

C. WIRING DEVICES SHALL BE 20 AMP FEDERAL SPECIFICATION GRADE WITH NYLON OR STAINLESS STEEL COVER PLATES. COORDINATE COLORS WITH OWNER.

DISTRIBUTION EQUIPMENT:

A. ALL NEW PANELBOARDS & CONTACTORS SHALL BE FURNISHED AND INSTALLED BY ELEC. CONTRACTOR. PANELBOARDS AND CONTACTORS SHALL BE MANUFACTURED BY GENERAL ELECTRIC, SIEMENS, CUTLER HAMMER OR SQUARE-D (NO SUBSTITUTIONS).

B. ALL PANELBOARDS SHALL HAVE COPPER BUS WITH 100 % RATED NEUTRAL BUS BARS.

C. ALL BREAKERS SHALL BE BOLT-ON TYPE.

D. ALL BREAKERS SHALL BE RATED TO WITHSTAND INCOMING AVAILABLE FAULT CURRENT FROM UTILITY COMPANY TRANSFORMER.

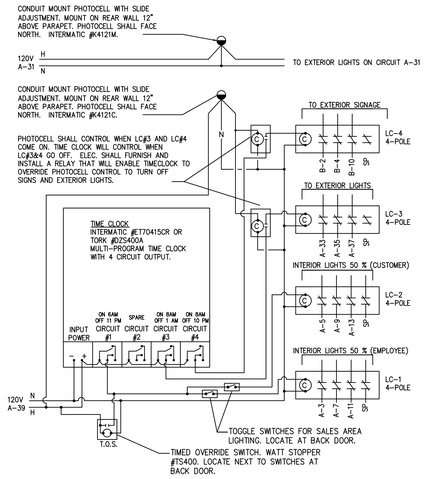
E. SERIES RATING MAY BE ALLOWED IF ACCEPTABLE BY LOCAL CODES. ALL SERIES RATED APPLICATIONS MUST MEET ALL N.E.C. REQUIREMENTS.

F. PROVIDE NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT AND TYPED DIRECTORY CARDS FOR PANELBOARDS.

G. UNLESS NOTED OTHERWISE, ALL SERVICE EQUIPMENT FUSES SHALL BE BUSSMANN LPJ AND ALL OTHER FUSES SHALL BE BUSSMANN "LOW-PEAK" OF APPROPRIATE VOLTAGE RATING.

ELECTRICAL LOAD SUMMARY

DESCRIPTION	CONNECTED LOAD (KVA)	POWER FACTOR	DEMAND LOAD (KVA)
HVAC EQUIPMENT	47.52		
LARGEST MOTOR	8.56	x 1.25 =	10.70
REMAINING	35.64	x 1.00 =	35.64
LIGHTING	8.07	x 1.25 =	10.09
RECEPTACLES	14.46		
1st 10 KVA	10.0	x 1.00 =	10.00
REMAINING	4.46	x 0.50 =	2.23
WATER HEATER	3.0	x 1.25 =	3.75
MISC.	0.80	x 1.00 =	0.80
TOTAL LOAD	70.75		73.21
TOTAL AMPS	196		203



LIGHTING CONTROL WIRING DIAGRAM

NTS

MAIN LUG ONLY: 225 AMPS
MAIN CIRCUIT BREAKER: 200 AMPS

PANEL: A
120/208 V., 3PH, 4W

AIC RATING: 22000 AMPS

	LOAD	KVA	C/B	CKT	A	B	C	CKT	C/B	KVA	LOAD	
**	LTG.; SALES (CUSTOMER)	0.43	20	1				2	20	0.72	REC.; CHECK OUT CNTR	LO
**	LTG.; SALES (EMPLOYEE)	0.90	20	3				4	20	0.5	REC.; PARTS COUNTER	LO
**	LTG.; SALES (CUSTOMER)	1.02	20	5				6	20	0	SPARE	
	SPARE	0	20	7				8	20	0.5	REC.; PARTS COUNTER	LO
	SPARE	0	20	9				10	20	0.7	REC.; DRINK COOLER	LO
**	LTG.; SALES (EMPLOYEE)	0.70	20	11				12	20	1.0	REC.; COMM COUNTER PTR	LO
**	LTG.; SALES (CUSTOMER)	0.70	20	13				14	20	0.7	REC.; COMM COUNTER	LO
**	LTG.; PARKING LOT	0.55	20	15				16	20	0.7	REC.; COMM COUNTER	LO
	SPARE	0	20	17				18	20	0.2	REC.; WORK BENCH	
**	LTG.; EXT. BLDG.	0.38	20	19				20	20	0.2	REC.; BATTERY CHGR STA	
	LTG.; LOADING DOCK	0.02	20	21				22	20	0.2	REC.; GENERAL SALES	LO
	SPARE	0	20	23				24	20	1.4	REC.; ALT/STARTER TEST	HM
**	LTG.; SIGN - BUILDING	1.20	20	25				26	20	1.0	REC.; BATT FAST CHGR	
**	LTG.; PYLON SIGN	1.20	20	27				28	20	0.2	REC.; GREETER/SEC MON	
	REC.; PYLON SIGN	0.2	20	29				30	20	0.72	REC.; TELEPHONE/SEC	LO
	SPARE	0	20	31				32	20	0.2	TIMECLOCK / LC'S	LO
LO	LTG.; EMERGENCY LIGHTS	0.17	20	33				34	20	0.18	REC.; EAS TOWER	LO
	SPARE	0	20	35				36	-	0	SPACE ONLY	LO
	SPARE	0	20	37				38	-	0	SPACE	
LO	LTG.; NIGHT LIGHTS	0.80	20	39				40	-	0	SPACE	
	SPARE	0	20	41				42	30	3.0	WATER HEATER	

A PHASE = 6.03 B PHASE = 6.12 C PHASE = 8.74

SERVING	CONN LOAD		DIVERSITY FACTOR		DEMAND	
LIGHTING	8.07	x	1.25	=	10.09	
RECEPT	9.12	x	*	=	9.12	
MISC EQUIP	0.20	x	1.00	=	0.20	
A/C	0.00	x	1.00	=	0.00	
HEATING	0.00	x	1.00	=	0.00	
LARGEST MOTOR	0.00	x	.25	=	0.00	
OTHER MOTORS	0.00	x	1.00	=	0.00	
OTHER	3.00	x	1.25	=	3.75	
SPARE						
TOTALS	20.39 KVA				23.16 KVA	

* PER N.E.C. 220-44 63.8 AMPS

LO = PROVIDE UL LISTED SCREW DOWN BREAKER LOCK-ON DEVICE.
HM = PROVIDE HIGH MAGNETIC CIRCUIT BREAKER
** = CIRCUIT CONTROLLED BY EMS IFP PREFAB PANEL CONTACTORS
- PANEL SHALL HAVE ISOLATED GROUND BAR WITH #4AWG TO EQUIP. GROUND BAR.
- PANEL SHALL BE SERVICE ENTRANCE RATED AND BRACED FOR AVAILABLE FAULT FROM LOCAL UTILITY COMPANY.

MAIN LUG ONLY: 225 AMPS
MAIN CIRCUIT BREAKER: 200 AMPS

PANEL: B
120/208 V., 3PH, 4W

AIC RATING: 22000 AMPS

LOAD	KVA	C/B	CKT	A	B	C	CKT	C/B	KVA	LOAD
A/C RTU-1	3.96	3P	1				2	3P	3.96	A/C RTU-2
A/C RTU-1	3.96	45	3				4	45	3.96	A/C RTU-2
A/C RTU-1	3.96	"	5				6	"	3.96	A/C RTU-2
REC.; MGR. DESK COMP.	1.2	20	7				8	20	0	SPARE
REC.; MGR. DESK SOUND	0.72	20	9				10	20	0	SPARE
REC.; MGR. DESK. PTR	0.5	20	11				12	-	0	SPACE
REC.; MGR. DESK DATA	0.5	20	13				14	20	0.8	REC.; REFRIG.
SPARE	0	20	15				16	20	0.2	EQ.; LAWN IRRIG.
ROOF GFI RECEPT.	0.7	20	17				18	20	0	SPARE
REC.; SHOW WINDOWS	0.2	20	19				20	20	0	SPARE
REC.; SHOW WINDOWS	0.2	20	21				22	20	0.2	REC.; FLOOR CLEANER/CHGR
SPARE	0	20	23				24	20	0.2	REC.; EXT. BLDG.
SPARE	0	20	25				26	20	0	SPARE
SPARE	0	20	27				28	20	0	SPARE
SPARE	0	20	29				30	20	0	SPARE
SPARE	0	20	31				32	3P	3.5	HEATED AIR CURTAIN AC-1
SPARE	0	20	33				34	40	3.5	HEATED AIR CURTAIN AC-1
SPARE	0	20	35				36	"	3.5	HEATED AIR CURTAIN AC-1
A/C RTU-3	3.96	3P	37				38	3P	3.96	A/C RTU-4
A/C RTU-3	3.96	45	39				40	45	3.96	A/C RTU-4
A/C RTU-3	3.96	"	41				42	"	3.96	A/C RTU-4

A PHASE = 21.58 B PHASE = 20.46 C PHASE = 18.68

SERVING	CONN LOAD		DIVERSITY FACTOR		DEMAND	
LIGHTING	0.00	x	1.25	=	0.00	
RECEPT	5.52	x	*	=	5.52	
MISC EQUIP	0.20	x	1.00	=	0.20	
A/C	47.52	x	1.00	=	47.52	
HEATING	11.20	x	1.00	=	11.20	
LARGEST MOTOR	8.56	x	.25	=	2.14	
OTHER MOTORS	0.00	x	1.00	=	0.00	
OTHER	0.00	x	1.00	=	0.00	
SPARE						
TOTALS	60.72 KVA				55.38 KVA	

* PER N.E.C. 220-44 153 AMPS

LO = PROVIDE UL LISTED SCREW DOWN BREAKER LOCK-ON DEVICE.
HM = PROVIDE HIGH MAGNETIC CIRCUIT BREAKER
** = CIRCUIT CONTROLLED BY EMS IFP PREFAB PANEL CONTACTORS
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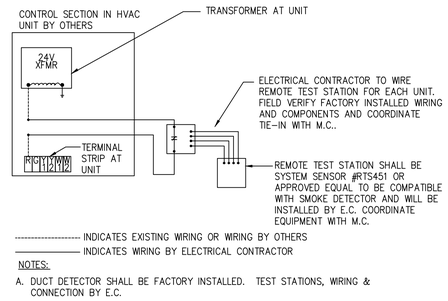


NOTES:

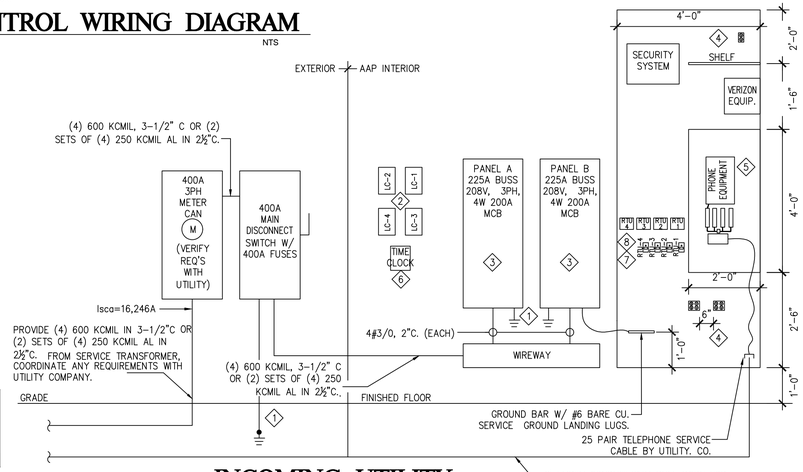
A. DUCT DETECTOR SHALL BE FACTORY INSTALLED. TEST STATIONS, WIRING & CONNECTION BY E.C.

B. REMOTE TEST STATION SHALL BE FURNISHED AND INSTALLED BY E.C., REFER TO SHEET E1 FOR MOUNTING INFORMATION.

C. ALL EQUIPMENT & WIRING SHALL BE IN CONFORMANCE WITH ALL APPLICABLE CODES AND REGULATIONS.

HVAC CONTROL WIRING SCHEMATIC

NTS



NOTE TO CONTRACTOR:
THERE IS ONLY 10'-0" OF WALL SPACE ALLOTTED FOR ELECTRICAL EQUIPMENT. THIS 10'-0" OF WALL SPACE SHALL NOT BE EXCEEDED AND THE SWITCHGEAR SHALL BE INSTALLED IN LOCATIONS AS SHOWN.

INCOMING UTILITY SERVICES RISER DIAGRAM

NTS

KEYED NOTES

1. #1/0 COPPER BARE GROUND TO COLD WATER PIPE, BUILDING STEEL, 3/4"x10' GROUND RODS, 20' OF BARE #4 CONDUCTOR IN CONCRETE FOOTING.
2. LIGHTING CONTACTOR(S) FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR. CONTACTOR(S) SHALL HAVE 120 VOLT COIL, ELECTRICALLY HELD, NC CONTACTS IN NEMA 1 ENCLOSURE. GE TYPE CR460L OR APPROVED EQUAL UL LISTED LIGHTING CONTACTORS.
3. ELECTRIC PANELBOARD FURNISHED AND INSTALLED BY ELEC CONTRACTOR. PANELBOARD INSTALLED ADJACENT TO 4'x10' PHONEBOARD. REFER TO PANEL SCHEDULES AND SPECIFICATIONS THIS SHEET.
4. INSTALL DUPLEX RECEPTACLE (FOR IRRIGATION TIMER) AND QUADRAPLEX RECEPTACLES (FOR TELEPHONE/SECURITY) 6" APART FOR TELEPHONE AND SECURITY EQUIPMENT. IT IS CRITICAL THAT THESE RECEPTACLES BE SEPARATE.
5. 2'x4' BACKBOARD (30" MIN. ABOVE BOTTOM OF PHONEBOARD) WITH PHONE EQUIPMENT TO BE MOUNTED TO 4'x10' PHONEBOARD. LOCATE ON PHONEBOARD AS INDICATED.
6. INTERMATIC #ET70415CR OR TORK #DZS400A MULTI-PROGRAM TIME CLOCK WITH 4 CIRCUIT OUTPUT.
7. DUCT SMOKE DETECTOR REMOTE TEST STATIONS. SUPPLIED AND INSTALLED BY E.C.
8. RTU THERMOSTATS MOUNTED ON PHONE BOARD AT 4'-0" AFF IN NUMERICAL ORDER LEFT TO RIGHT AS INDICATED.

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1843 Foreman Drive
Cookeville, TN. 38501
931-528-7475
jsconstruction.com

sparrow Ventures
931-261-7006

BOUTON ENGINEERING
Structural + Civil Consulting
420 N. Washington Ave., Suite 7
Cookeville, TN 38501
boutonconsult.com

A New Store for
Advance Auto Parts *Store # 17061*
2056 Genesis Road *(Genesis Rd & Interstate Dr Lot #2)*
Crossville, TN 38555

REVISIONS			
REV	DATE	DESCRIPTION	

Project Number	23-81
Date:	07-10-2023
Drawn by:	
Checked by:	
CONSTRUCTION DOCUMENTS	

ROBERT A. MONTGOMERY — LICENSED PROFESSIONAL ENGINEER — STATE OF TENNESSEE

SPECIFICATIONS, PANEL SCHEDULES, & RISER DIAGRAM

E4

Job No. 23209

MONTGOMERY ENGINEERING PLLC
Electrical and Mechanical Construction Engineers
1191 Nashville Pike, Gallatin, TN 37066
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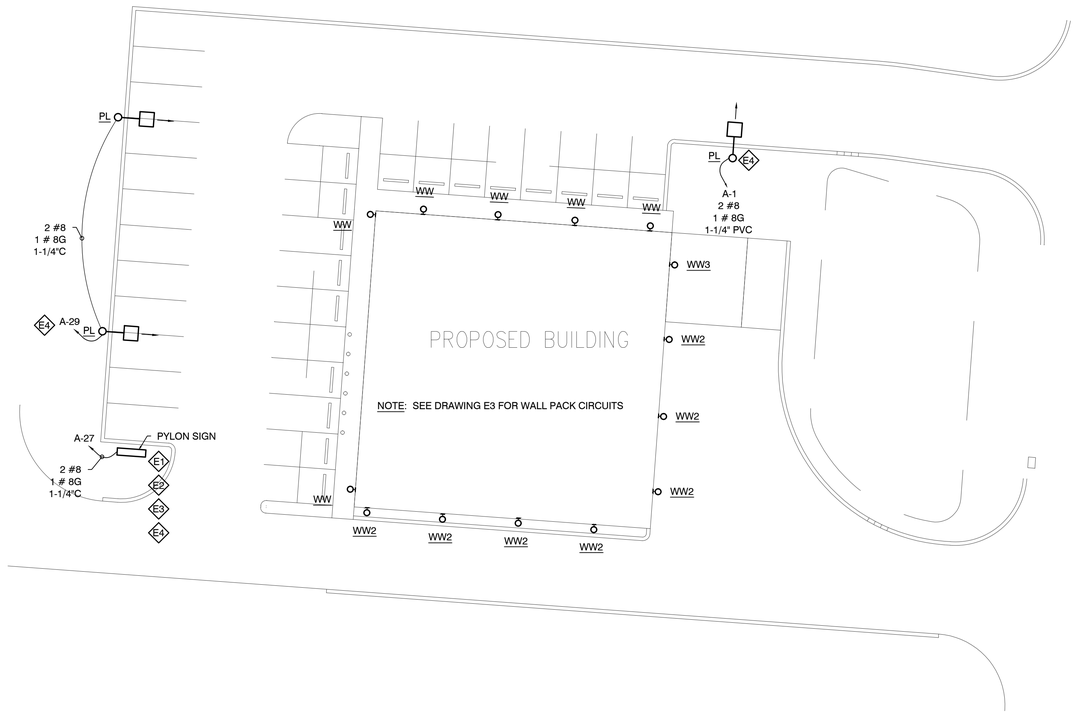


SITE LIGHTING PLAN

SCALE: 1"=20'

Note
1. FIXTURE TYPES - PL, WW, WW2 & WW3 ARE CLASSIFIED IES FULL CUTOFF.
2. FIXTURE TYPE - PL HAS AN INTEGRAL HOUSE-SIDE SHIELD.
3. FIXTURE TYPE - WW, WW2, & WW3 ARE MOUNTED AT 10'6".
4. FIXTURE TYPE- PL IS MOUNTED 27' 6" ABOVE GRADE ON A 25' POLE ATOP A 2' 6" CONCRETE BASE.

Wall Pack Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	WW	7	Lithonia Lighting	DSXW1 LED 20C 700 50K T3M MVOLT	DSXW1 LED WITH 2 LIGHT ENGINES, 20 LED's, 700mA DRIVER, 5000K LED, TYPE 3 MEDIUM OPTIC	LED	1	DSXW1_LED_20C_700_50K_T3M_MVOLT.ies	4644	0.95	47
	WW2	7	Lithonia Lighting	DSXW1 LED 10C 350 50K T3M MVOLT	DSXW1 LED WITH 1 LIGHT ENGINE, 10 LED's, 350mA DRIVER, 5000K LED, TYPE 3 MEDIUM OPTIC	LED	1	DSXW1_LED_10C_350_50K_T3M_MVOLT.ies	1298	0.95	13.21
	WW3	1	Lithonia Lighting	DSXW1 LED 10C 350 50K T3M 120 PE	DSXW1 LED WITH 1 LIGHT ENGINE, 10 LED's, 350mA DRIVER, 5000K LED, TYPE 3 MEDIUM OPTIC, PHOTOCELL	LED	1	DSXW1_LED_10C_350_50K_T3M_MVOLT.ies	1298	0.95	13.21

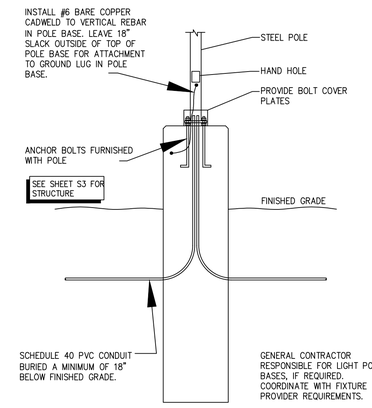
ELECTRICAL KEYED NOTES

E1 20 AMP WEATHERPROOF TOGGLE SWITCH FOR ROAD SIGN DISCONNECT SWITCH. MOUNT ON SIDE OF SIGN AND MAKE FINAL CONNECTIONS TO SIGN.

E2 STUB UP UNDERGROUND CONDUIT AND INSTALL A WEATHERPROOF J-BOX WITH GASKETED BLANK COVER PLATE. EXTEND CIRCUITS IN SEALTITE CONDUIT FROM J-BOX TO RECEPTACLE AND SIGN DISCONNECT SWITCH.

E3 20 AMP GFCI DUPLEX RECEPTACLE WITH IN-USE WEATHERPROOF COVER. MOUNT AT ROAD SIGN. COORDINATE WITH SIGN MANUFACTURER.

E4 STUB-UP SITE LIGHTING CONDUIT BELOW PANELBOARD AND CONNECT CIRCUITS AS REQUIRED. REFER TO PANEL SCHEDULES SHEET E4.



2/SL1 SITE LIGHTING POLE BASE DETAIL
SCALE: N.T.S.

DETAIL 2/SL1 GENERAL NOTES

1 REFER TO STRUCTURAL DRAWINGS FOR POLE BASE CONSTRUCTION INFORMATION.

POLE LIGHT SCHEDULE

MARK	SYMBOL	MANUFACTURER	MODEL NUMBER	LAMPS PER FIXTURE				COLOR	MOUNTING	REMARKS
				NO.	TYPE	WATTS	VOLTAGE			
PL1	□o	LITHONIA	DSX0 LED 40C 1000 50K T3M MVOLT HS DBLXD (BLACK)	40 EA. TOTAL OF 40	40 LEDs (TWO ENGINES) 138 WATT	138	MVOLT	BLACK	POLE MOUNT	NOTES 1,2,3,4,5

LUMINAIRE SCHEDULE NOTES:

1. ELEC. SHALL FURNISH AND INSTALL ALL POLES, LUMINAIRES AND LAMPS AS SPECIFIED. REFER TO RESPONSIBILITY MATRIX, SHEET T1, FOR PURCHASING INFORMATION.
2. ELEC. SHALL FURNISH AND INSTALL ALL CONCRETE POLE BASES PER STRUCTURAL DRAWINGS.
3. FOR POLES WITH ONE HEAD AND FOR WIND SPEEDS EQUAL TO OR LESS THAN 90 MPH THE ELEC. SHALL FURNISH AND INSTALL LITHONIA MODEL #SSS-25-4C-DM19-DBL (BLACK).
4. FINAL SITE LIGHTING FIXTURE/POLE LAYOUTS AND CONFIGURATIONS SHALL BE COORDINATED WITH LOCAL EXTERIOR LIGHTING AND WIND LOADING REQUIREMENTS AND RESTRICTIONS.

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1843 Foreman Drive
Cookeville, TN. 38501
931-528-7475
jsconstruction.com

A New Store for
Advance Auto Parts Store # 17061
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Crossville, TN 38555

REVISIONS

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SITE LIGHTING PLAN

SL1