



#### Fire Marshal Division P.O. Box 370 Lillington, NC 27546 910-893-7580

### **Application for Plan Review**

Permit Type:	
Date Received: Received	By:
Name of Project:	
Physical Address of Project:	
Plans Submitted By:	
Project Phone: ()	
Contact Person/Address:	
	()
Contractor's Name/Info:	
Contractor's Phone: () Contact Email:	

- Plans that are submitted will be reviewed as quickly as possible with an average time of review between 7-10 working days.
- Status checks may be conducted on plan reviews by visiting the website <u>http://hteweb.harnett.org/Click2GovBP/Index.jsp</u> or by calling the Harnett County Central Permitting Office (910-893-7525 : Opt. 2), or the Harnett County Fire Marshal's Office (910-893-7580).
- Approved plans must be picked up from the Central Permitting Office and all fees paid before any required inspections can be conducted.

# **OWNER / DEVELOPER**

REESE REAL ESTATE LILLINGTON, LLC

1076 SUMMIT DRIVE MIDDLETOWN, OH 45042 **OWNER'S REPRESENTATIV KEITH CARTER** 513.849.8015 keith@reeseredev.com

# TENANT

TRACTOR SUPPLY COMPANY

5401 VIRGINIA WAY BRENTWOOD, TN 37027

PROJECT MANAGER MIKE VANCLEAVE 615.426.4571 mvancleave@tractorsupply.com

# ARCHITECT



GLEN P. OXFORD ARCHITECT

2934 SIDCO DRIVE, SUITE 120 NASHVILLE. TN 37204

ARCHITECT OF RECORD GLEN P. OXFORD, AIA 615.256.3455 glen@oxfordarchitecture.com

PROJECT MANAGER ELIZABETH MORRISETTE 615.256.3455 x 14 elizabeth@oxfordarchitecture.com

# CIVIL ENGINEER

QUIBLE & ASSOCIATES, P.C. 8466 CARATOKE HIGHWAY, BUILDING 400 POWELLS POINT, NC 27949

ENGINEER OF RECORD CATHLEEN M. SAUNDERS, P.E. 252.491.8147 csaunders@quible.com

# STRUCTURAL ENGINEER

BENNETT & PLESS, INC. 565 MARRIOTT DRIVE, SUITE 300

NASHVILLE, TN 37214 ENGINEER OF RECORD

FREDERICK A. WEIS. P.E. 615.782.0100 fweis@bennett-pless.com

PROJECT MANAGER JARROD FINGER 615.878.2206 jfinger@bpl-enclosure.com

# MECHANICAL AND PLUMBING

# SCHELTON ENGINEERING

1163 WEST MAIN STREET FRANKLIN, TN 37064

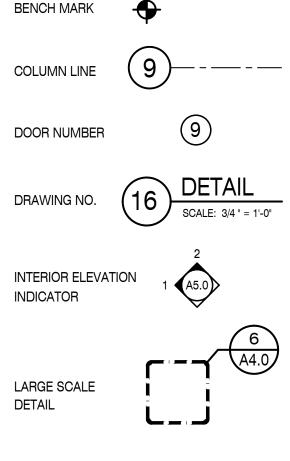
ENGINEER OF RECORD GARY W. SCHELTON, P.E., LEEP AP 615.730.9111 gary@scheltonengineering.com

## ELECTRICAL ENGINEER PARSONS ENGINEERING

4751 TROUSDALE DRIVE, SUITE 202 NASHVILLE, TN 37203

ENGINEER OF RECORD ANTHONY J. PEZZI 615.386.9396 apezzi@parsonsengineering.com

**GRAPHIC SYMBOLS** 



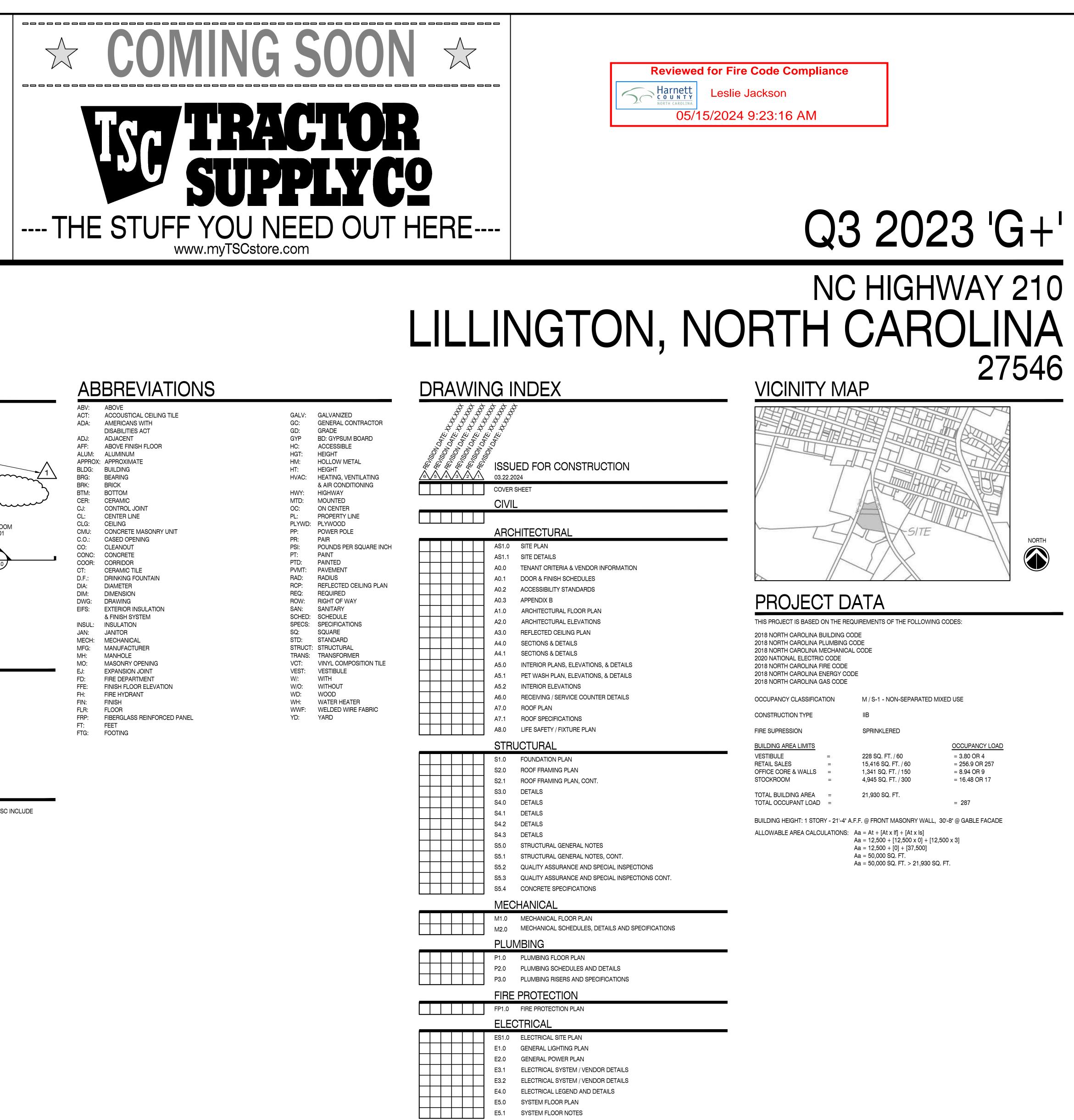
# WALL TYPES

*****	CMU
	META
	META
	WALL
	PET V
	*SEE



TRACTOR SUPPLY COMPANY IS A RETAILER TARGETING THE HOBBY FARMER. ITEMS SOLD AT TSC INCLUDE CLOTHING, FENCING, HARDWARE, BIRD FEED AND EQUINE PRODUCTS.

PROJECT MANAGER RODNEY RUNIONS 615.386.9396 rrunions@parsonsengineering.com



NORTH

**REVISION-**

**REVISION MARKER-**

ROOM NAME

ROOM NUMBER-

SECTION CUT

## J WALL

AL STUDS AND FINISH TO 6" ABOVE CEILING

AL STUDS AND FINISH EXTEND TO ROOF DECK

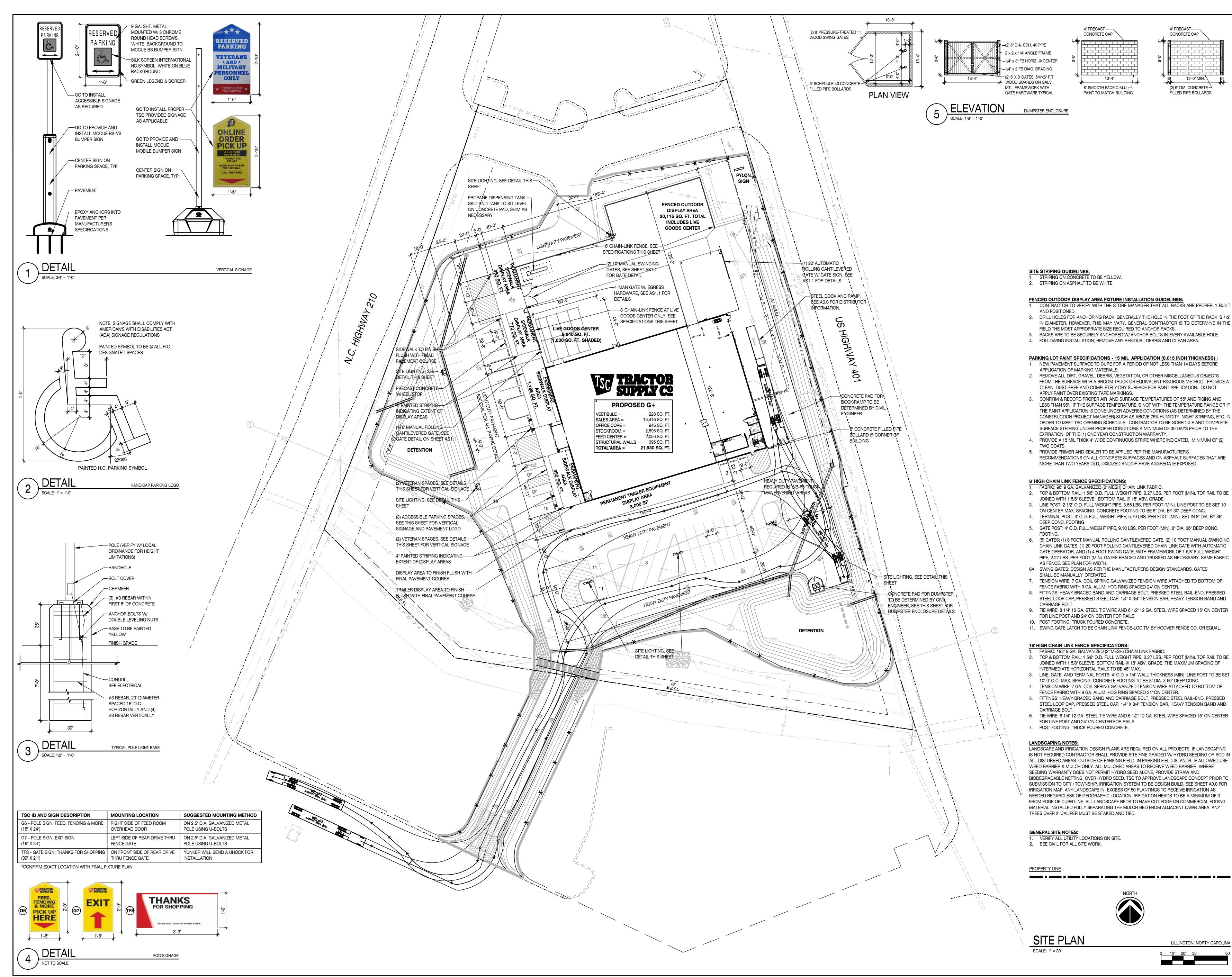
L TO HAVE BATT INSULATION WASH WALL, SEE A5.1

E A5.0 FOR WALL FINISH AND THICKNESS TYPES

ABV:	ABOVE
ACT:	ACCOUSTICAL CEILING TILE
ADA:	AMERICANS WITH
	DISABILITIES ACT
ADJ:	ADJACENT
AFF:	ABOVE FINISH FLOOR
ALUM:	ALUMINUM
APPROX:	APPROXIMATE
BLDG:	BUILDING
BRG:	BEARING
BRK:	BRICK
BTM:	BOTTOM
CER:	CERAMIC
CJ:	CONTROL JOINT
CL:	CENTER LINE
CLG:	CEILING
CMU:	CONCRETE MASONRY UNIT
C.O.:	CASED OPENING
CO:	CLEANOUT
CONC:	CONCRETE
COOR:	CORRIDOR
CT:	CERAMIC TILE
D.F.:	DRINKING FOUNTAIN
DIA:	DIAMETER
DIM:	DIMENSION
DWG:	DRAWING
EIFS:	EXTERIOR INSULATION
	& FINISH SYSTEM
INSUL:	INSULATION
JAN:	JANITOR
MECH:	MECHANICAL
MFG:	MANUFACTURER
MH:	MANHOLE
MO:	MASONRY OPENING
EJ:	EXPANSION JOINT
FD:	FIRE DEPARTMENT
FFE:	FINISH FLOOR ELEVATION
CU.	

ALV:	GALVANIZED
C:	GENERAL CONTRACTOR
D:	GRADE
YP	BD: GYPSUM BOARD
C:	ACCESSIBLE
GT:	HEIGHT
M:	HOLLOW METAL
T:	HEIGHT
VAC:	HEATING, VENTILATING
	& AIR CONDITIONING
WY:	HIGHWAY
TD:	MOUNTED
C:	ON CENTER
_:	PROPERTY LINE
_YWD:	
<b>-</b> :	POWER POLE
ר: ריי	
SI: r.	POUNDS PER SQUARE INCH
Γ: ΓD:	PAINT PAINTED
/MT:	PAVEMENT
AD:	RADIUS
CP:	REFLECTED CEILING PLAN
EQ:	REQUIRED
DW:	RIGHT OF WAY
AN:	SANITARY
	SCHEDULE
PECS:	SPECIFICATIONS
Q:	SQUARE
TD:	STANDARD
TRUCT:	STRUCTURAL
RANS:	TRANSFORMER
CT:	VINYL COMPOSITION TILE
EST:	VESTIBULE
//:	WITH
//O:	WITHOUT
/D:	WOOD
/H:	WATER HEATER

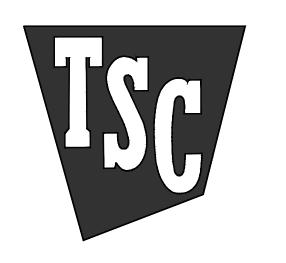
**LILLINGTON** 2023 က O S 60 ကြ







Nashville, TN 37204 Interior Architecture



TRACTOR SUPPLY COMPANY LILLINGTON NORTH CAROLINA

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Job Number:

2360 03.22.2024

Date: Revisions

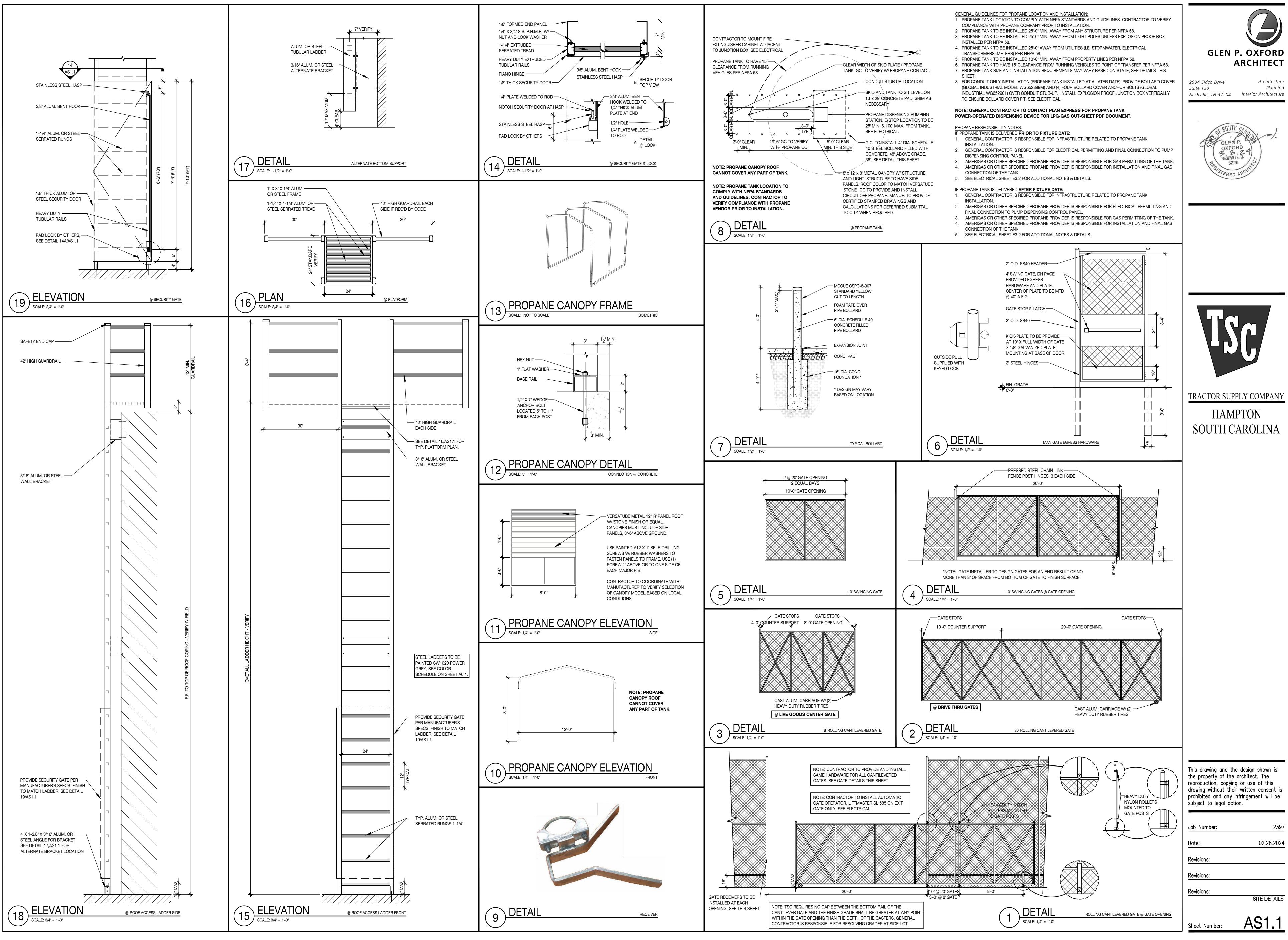
Revisions:

**Revisions:** 

SITE PLAN

Sheet Number:

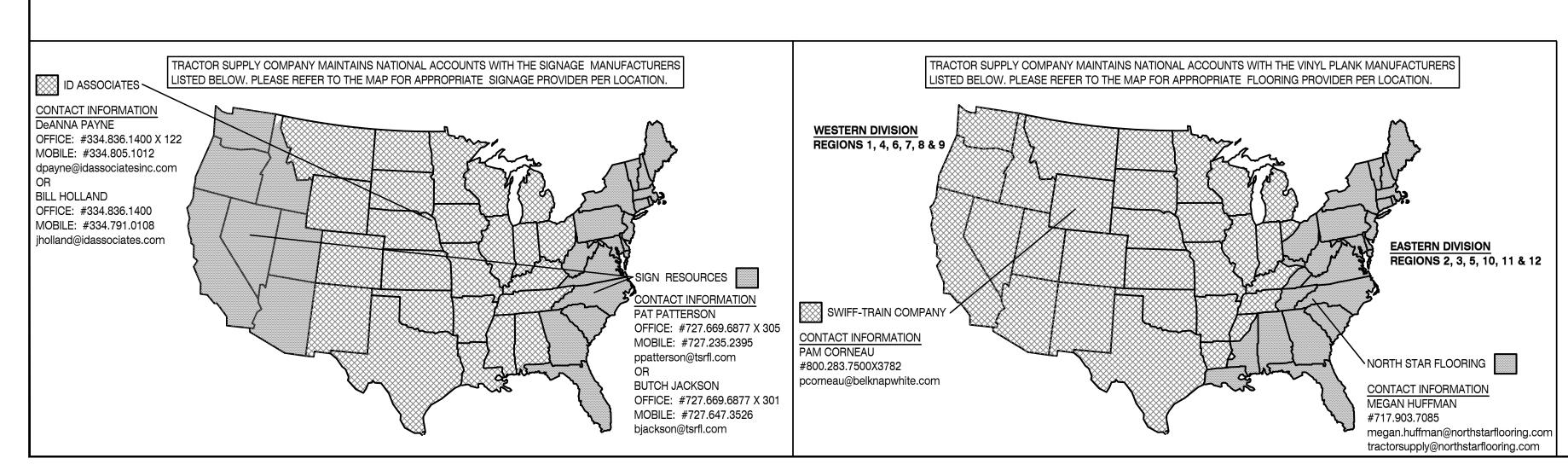
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MALES TO CONFIRCTON DRIVACE         Configuration DRIVACE         Configuration DRIVACE           MARINE TO CERVINE TO CE STORE         CONSTRUCTION DOCUMENTS         SSC ENTON TONEY - proving functionary physics         PROVINCE           MARINE AND EXCLOSED TO CE STORE         CONSTRUCTION DOCUMENTS         SSC ENTON TONEY - proving functionary physics         PROVINCE           MARINE AND EXCLOSED TO CETA IN RECENT         PROVINCE STARE AND TONE - proving functionary physics         PROVINCE STARE AND TONE - physics         Physics<	NEW STORE - TIME A					
SAZE FLAV REVIEW OLD COULDED TO SC STORE         000NFTRUCTION_DOULLENTS         TS - E-YTON TOREY - consingline doubles         Additional and the second of the	TASK	COMPLETION DATE (WEEKS TO CONSTRUCTION TURNOVER DATE)				
PAPEOUX_STAME AD DATE FOR 180         PICH TO SCHEDULE # BURNARDON         DEVELOPER           RECEIPTER TO CATAL STATE AND LOCATIONS         PICH TO SCHEDULE # BURNARDON         DEVELOPER           RACHIEGT TO UR_ADD FLANS FOR HUMB         CATEST REVISED DO DUMENTS         FLAN EPRESS 4-964,442614         ACONTRACTOR           STATE AND LOCAT FLANS FOR HUMB	ARCHITECT TO EMAIL FLOOR PLAN BASE SHEET AND BASE PLAN REVIEW CHECKLIST TO TSC STORE PLANNING AND SECURITY SYSTEMS VENDOR		TSC - PEYTON TONEY - ptoney@tractorsupply.com JCI - GAIL DRAKE - gail.drake@jci.com OR	ARCHITECT		
NULUURIS SIGNIC AVAILOR PRINTE FOR SWILLES UNE AVAILOR PLANE TO PLANE EXPRESS         TES D         APRIL         APRIL        <	ARCHITECT TO OBTAIN PROPANE LOCATION APPROVAL STAMP AND DATE FROM TSC	PRIOR TO SCHEDULE I SUBMISSION	TSC - CLINT WEAVIL - cweavil@tractorsupply.com	ARCHITECT		
AT BID AT PERIT APPROVAL         Customeren/respination/pressuret         AT BID ACREAD APPROVAL         Customeren/respination/pressuret         Contractor (Second Period Pe	DEVELOPER TO OBTAIN STATE AND LOCAL PERMITS, INCLUDING SEISMIC ANCHOR PERMITS FOR FIXTURES WHEN REQUIRED	PRIOR TO SCHEDULE II SUBMISSION		DEVELOPER		
DOMERATION AND SOFTEDUCE ALARNI INSTALLATION         APT - DUKE DAUGHTEY - desagiting/sequencem           DOME AND SOFTEDUCE BY TRO         6 MEERS         TSD - TARUAS PAYLE - Thomas Payles and the softed and the s	ARCHITECT TO UPLOAD PLANS TO PLAN EXPRESS	AT BID		ARCHITECT		
TS0 - THOMAR PAYNE : Inserved instruction public on Securative Vertains Contractore - Net To Securative Vertains (Securative Vertains)         CONTRACTOR         CONTRACTOR           Securative Vertains Contractore - Net To Both         Vertains         UD - 6Avine LLE - gave 1 elimity (Contractore)         CONTRACTOR           Securative Vertains Contractore - Net To Both         Vertains         UD - 6Avine LLE - gave 1 elimity (Contractore)         CONTRACTOR           Softward Contractore - Open Taxib PHONE WITH         Vertains         TS0 - STAN KOLI - 6615, 440,4824         CONTRACTOR           Softward Contractore - Open Taxib PHONE WITH         Vertains         Vertains         Contractore         Contractore           Softward Contractore - Open Taxib PHONE WITH         Vertains         Vertains         Contractore         Contractore           Softward Contractore - Open Taxib PHONE WITH         Vertains         Vertains         Contractore         Contractore           Softward Contractore - Open Taxib PHONE WITH         Vertains         Vertains         Contractore         Contractore           Softward Contractore - Open Taxib PHONE WITH         Vertains         Vertains         Contractore         Contractore           Softward Contractore - Open Taxib PHONE WITH         Vertains         Vertains         Contractore         Contractore           Softward Contre - Open Taxib PHONE WITH         Vertain		7 WEEKS	· · · ·	CONTRACTOR		
BEOURTY SYSTEMS CONTRACTOR - HAS TO BEIN         3 VEEKS         JD. GAVIN ELLB - gaven 1 stillingtorm         FGL SS TARK CONTRACTOR           DDU STALLATION (PHONE BOARD UP)         4 WEEKS         TSC - STAN KOLC - #615 440.4824         DOWTRACTOR           DOWTRACTOR - COMDUTE FOR CIPICATION & COMDUTE SOLUTION CONTRACTOR         4 WEEKS         TSC - STAN KOLC - #615 440.4824         DOWTRACTOR           SID (DIER-AWAR CI LOADING DOCK ACCESS, MORLIFF, ROOPANE SOLT PRICE SOLUTION CONTRACTOR         4 WEEKS         CARDING FOR CIPICATION & CONTRACTOR         CONTRACTOR           SID (DIER-AWAR CI LOADING DOCK ACCESS, MORLIFF, ROOPANE AS AND PROPANE US; TANK MORLIFF, ROOPANE ADD, ATTOR         3 WEEKS BY TUESDAY         CAROLINE RICE (FIS 440.4705) cirol@tractorsupply.com         CONTRACTOR           SURTELIC TON, HAND FERDER         3 WEEKS BY TUESDAY         CAROLINE RICE (FIS 440.4705) cirol@tractorsupply.com         CONTRACTOR           SURTELIC TON, HAND FERDER         3 WEEKS BY TUESDAY         CAROLINE RICE (FIS 440.4705) cirol@tractorsupply.com         CONTRACTOR           MIREL DOC STOR CONTROLONG         3 WEEKS BY TUESDAY         CAROLINE C- #615.440.4702         CONTRACTOR           DIM FAGE STANDAY         3 WEEKS BY TUESDAY         CAROLINE STANDAY         CONTRACTOR           DIM FAGE STANDAY         3 WEEKS BY TUESDAY         CAROLINE STANDAY         CONTRACTOR           DIM FAGE STANDAY         3 WEEKS BY TUESDAY         CAROLINE STA	INAL FIXTURE PLAN PROVIDED BY TSC	6 WEEKS		TSC FIXTURE PLANNING		
NSTALLATION (PHONE BOARD UP)         ADT - DURE PAUGHTREY - data/provided.com           VIEL STEMATOR - CONTRACTOR - DOUDTS FOR TAND PHONE WITH VILL STEMAS         4 WEEKS         TSC - STAN KOLLO - 6415.440.4824         CONTRACTOR CONTRACTOR - CONTROL ON CONTRACTOR           VIELS IN JURA-RAMP OF LOADING DOCK ACCESS, ORALLT, PROPANE DIS TANK PROPANE FOR FORMELT AND HAT IN RECESSARY         AVEERS         YVEEKS BY TUESDAY         CAPOLINE FOR FORMES         ONTRACTOR           2004 STRUCK ARRIVES         3 WEEKS BY TUESDAY         CAPOLINE FOR FORMES         TSC - STAN KOLLO - 6415.440.4703 (chaughtactoraupp) com           2004 STRUCK ARRIVES         3 WEEKS BY TUESDAY         CAPOLINE FOR (S16.440.4703) (chaughtactoraupp) com           2004 STRUCK ARRIVES         3 WEEKS         TSC - STAN KOLLO - 6415.440.4703 (chaughtactoraupp) com           2004 STRUCK ARRIVES         3 WEEKS         TSC - STAN KOLLO - 6415.440.4824         (T           2015 TRUCK ARRIVES         3 WEEKS         TSC - STAN KOLLO - 6415.440.4824         (CONTRACTOR - UT)           2016 TRUCK ARRIVES         3 WEEKS         TSC - STAN KOLLO - 6415.440.4824         (CONTRACTOR - UT)           2017 ALLD ATE FOR POWER         3 WEEKS         TSC - STAN KOLLO - 6415.440.4824         (CONTRACTOR - UT)           2016 ALL DORES TO BUILDING         3 WEEKS         DH PACE - NATONAL ACCOUNT SONSTRUCTION TEAM         (CONTRACTOR - UT)           2017 ALL DATE FOR POWER <t< td=""><td>ACKBOARD (4X8 HORIZONTAL) PAINTED WHITE</td><td>4 WEEKS</td><td>TSC - STAN KOLIC - #615.440.4824</td><td>CONTRACTOR</td></t<>	ACKBOARD (4X8 HORIZONTAL) PAINTED WHITE	4 WEEKS	TSC - STAN KOLIC - #615.440.4824	CONTRACTOR		
VLL STRINGS         CS STORE ADVESS, SI (URIA-MARP OR LOADING DOCK ADDESS, ORKUET, PROPANE OR STANK, PROPANE OR STANKET AND PROPANE DIST TANK SI (URIA STANKET AND PROPANE DIST TANK CREED & 12.1000, TANKET AND PROPANE DIST TANKET CREED & 12.1000, TANKET AND PROPANE CREED & 12.000, TANKET AND PROPANE CREED & 10.000, TAN		3 WEEKS		TSC LOSS PREVENTION		
ORKUT, PROPANE DIS, TANK         OHIE SUZUITIE OF 38 12 chrosophysicin         OONTRACTOR           ORKUT, PROCHARGE RORDON, EDIS, TANK         MERCINE ADD FEASURE AND EAST AND ADD FOR A		4 WEEKS	TSC - STAN KOLIC - #615.440.4824	CONTRACTOR		
WIPRESSIONS TRUCK ARRIVES         3 WEEKS BY TUESDAY         CAROLINE RICE (615.440.4705) crice@tractorsuppy.com           NISTAL DATE FOR PHONE LINES         3 WEEKS         TSO - STAN KOLIC - #615.440.4824         IT           TUELES TOLSS AND MANAGERS OFFICE FINISHED- DOUTACTOR - ALL DOORS TO BE INSTALLED WITH         3 WEEKS         TSC - STAN KOLIC - #615.440.4824         CONTRACTOR           DOUTACTOR - ALL DOORS TO BE INSTALLED WITH         3 WEEKS         STE SUPERVISOR         CONTRACTOR           CXXX         TSO - STAN KOLIC - #615.440.4824         CONTRACTOR         CONTRACTOR           VIELES DOUSS AND MANAGERS OFFICE FINISHED- DOWER         3 WEEKS         STE SUPERVISOR         CONTRACTOR           CXXX         TSO STORE FINISHED- DOWER         15 DAYS PRIOR TO FIXTURE DATE         ECOVA - TractorSupply OPOLInsight@ergle.com         CONTRACTOR           VIENER         TREMINIX - (PEST CONTROL)         1 WEEK         BRAD COOPER (615.440.4865) biocoper@itractorsupply.com           ACX TENN WASTE MANAGEMENT         1 WEEK         CAROLINE RICE (615.440.4705) crice@tractorsupply.com         CONTRACTOR           DUMPERTER SERVICE LOS AND DUMPSTER)         1 WEEK         CAROLINE RICE (615.440.4705) crice@tractorsupply.com         CONTRACTOR           DUMPERTER SERVICE LOS AND DUMPSTER)         1 WEEK         TSO STORE ADMINISTRATION         CONTRACTOR           DUMPERTER SERVICE LOS AND DUMPSTER)	ORKLIFT, PROPANE GAS AND PROPANE DIS. TANK	4 WEEKS	CHRIS SAUER (610.768.7612) christopher.sauer@amerigas.com MOLLIE TRELOAR (615.440.4230) mtreloar@tractorsupply.com			
ISTALL DATE FOR PHONE LINES         3 WEEKS         TSC - STAN KOLIC - #615.440.4824         IT           ISTALL DATE FOR PHONE LINES         3 WEEKS         TSC - STAN KOLIC - #615.440.4824         CONTRACTOR           UPLEX BOXES AND DEDICATED POWER         3 WEEKS         TSC - STAN KOLIC - #615.440.4824         CONTRACTOR           OVERACTOR - LIDDOORS TO BE INSTALLED WITH         3 WEEKS         DH PACE - NATIONAL ACCOUNTS CONSTRUCTION TEAM         CONTRACTOR           OCKS         GMANENT POWER TO BUILDING         3 WEEKS         DH PACE - NATIONAL ACCOUNTS CONSTRUCTION TEAM         CONTRACTOR           ORK         SITE SUFFERNSOR         CONTRACTOR         CONTRACTOR         CONTRACTOR           RETE INFORMATION         15 DAYS PRIOR TO FUTURE DATE         ECOVA - Tractor6.upplyOPCL insight@engle.com         CONTRACTOR           RETE INFORMATION         1 WEEK         UNIFIRST - #888.851.2474.X 5         TSC STORE ADMINISTRATION           READ COORER (15.440.4824         TS C STORE ADMINISTRATION         TSC STORE ADMINISTRATION         TSC STORE ADMINISTRATION           NINFRST - MOPS AND DUMPSTER)         1 WEEK         COACTEWN WASTE MANAGEMENT - #600.338.879         TSC STORE ADMINISTRATION           NAME CREATER         NEEK         COACTEWN WASTE MANAGEMENT - #600.338.879         TSC STORE ADMINISTRATION           DAME PROVIDER MITH ADWER POLICE SET IN PLACE         NEEK	CONSTRUCTION TRUCK ARRIVES	3 WEEKS BY TUESDAY	CAROLINE RICE (615.440.4705) crice@tractorsupply.com			
LEED #6 GROUND AT BOARD         Contractors           (*ELEOT, CLOS, AND DEDICATED POWER         3 WEEKS         TSC - STAN KOLIC - #615,440,4824         CONTRACTOR           (*MEX BOXES AND DEDICATED POWER         3 WEEKS         DH PAOE - NATIONAL ACCOUNTS CONSTRUCTION TEAM (MQ) - #688,722,3667 X 1031 tstcoors@chipaco.com         CONTRACTOR           (ETEN INFORMATION         15 DAYS PRIOR TO FIXTURE DATE         EOVA - TractorSupplyOPL.Insight@engie.com         CONTRACTOR           (ETEN INFORMATION         15 DAYS PRIOR TO FIXTURE DATE         EOVA - TractorSupplyOPL.Insight@engie.com         CONTRACTOR           (ETEN INFORMATION         15 DAYS PRIOR TO FIXTURE DATE         EOVA - TractorSupplyOPL.Insight@engie.com         CONTRACTOR           INFRST - MOPS AND MATS         1 WEEK         UNIFIRST - 4808,851,2474 X S         TSC STORE ADMINISTRATION           INFRST - MOPS AND MATS         1 WEEK         ETEMAND.(* PEST CONTROL)         TSC STORE ADMINISTRATION           UMPSTER SERVICE (40 YARD DLIMPSTER)         1 WEEK         CANOLINE RICE (415,440,4450) biocoper@tatorsupply.com           CONTRACTOR         1 WEEK         CANOLINE RICE (414,4463) biocoper@tatorsupply.com         TSC STORE ADMINISTRATION           REVICE DESK, RECEIVING DESK, REGISTER         1 WEEK         CANOLINE RICE (415,440,4450) biocoper@tatorsupply.com         TSC STORE ADMINISTRATION           REVICE DESK, RECEIVING DESK CONNECT         1 WEEK	MPRESSIONS TRUCK ARRIVES	3 WEEKS BY TUESDAY	CAROLINE RICE (615.440.4705) crice@tractorsupply.com			
UPLEX BOXES AND DEDICATED FOWER         end         PAGE - NATIONAL ACCOUNTS CONSTRUCTION TEAM (NAC) - #888.722.3667 X 10051 tisodoors@drhpace.com         CONTRACTOR           COXS         DPAGE - NATIONAL ACCOUNTS CONSTRUCTION TEAM (NAC) - #888.722.3667 X 10051 tisodoors@drhpace.com         CONTRACTOR           ERMANENT POWER TO BULDING         3 WEEKS         SITE SUPERVISOR         CONTRACTOR           ETER INFORMATION         15 DAYS PRIOR TO FIXTURE DATE         EOOVA - TractorSoupplyCOPCL.insight@engles.com         CONTRACTOR           ETER INFORMATION         15 DAYS PRIOR TO FIXTURE DATE         EOOVA - TractorSoupplyCoCL.insight@engles.com         CONTRACTOR           ETEMINIX - (PEST CONTROL)         1 WEEK         UNIFIRST - #988.251.2474 X 5 BRAD COOPER (615.440.4965) bocoper@tractorsupply.com         TSC STORE ADMINISTRATION BRAD COOPER (615.440.4965) bocoper@tractorsupply.com           ENVEX DESK, RECISITINE ADMINISTRATION         1 WEEK         TERMINIX - #966.518.4737 BRAD COOPER (615.440.4965) bocoper@tractorsupply.com         CONTRACTOR           ENVEX DESK, RECISITINE ADMINISTRATION         1 WEEK         CAROLINE RICE (615.440.4965) bocoper@tractorsupply.com         CONTRACTOR           CONTRACTOR         1 WEEK         TSC STORE ADMINISTRATION         TSC STORE ADMINISTRATION           CONTRACTOR         1 WEEK         TSC STORE ADMINISTRATION         TSC STORE ADMINISTRATION           CONTRACTOR         1 WEEK         TSC STORE ADMINISTRA		3 WEEKS	TSC - STAN KOLIC - #615.440.4824	IT		
OCKS         (NLC) - 888.7 22.867 X 10031 tscdoors@dtpace.com         CONTRACTOR           ERMANENT POWER TO BUILDING         3 WEKS         SITE SUPERVISOR         CONTRACTOR           EFRI INFORMATION         15 DAYS PRIOR TO FIXTURE DATE         COVA - TractorSupply/OPCI_insight@englic.com         CONTRACTOR           INIFIRST - MOPS AND MATS         1 WEEK         UNIFIRST - #088.851.2474 X 5 BRAD COCRE (16.440.4865) bcooper@tractorsupply.com         TSC STORE ADMINISTRATION           INIVERST - (PEST CONTROL)         1 WEEK         ITRUNIX - #868.748.473         TSC STORE ADMINISTRATION           INVERST - MASE MANAGEMENT         1 WEEK         BRAD COCRE (16.440.4865) bcooper@tractorsupply.com         TSC STORE ADMINISTRATION           UNIPRIST ENTROL         1 WEEK         CAROLINE RICE (61.54.40.4861) bcooper@tractorsupply.com         TSC STORE ADMINISTRATION           UNIPRIST ENTROL         1 WEEK         CAROLINE RICE (61.54.40.4705) crice@tractorsupply.com         CONTRACTOR           ODIVERSING THE POWER POLES SET IN PLACE         1 WEEK         TSC STORE ADMINISTRATION         TSC STORE ADMINISTRATION           OPEMANENT POWER POLES SET IN PLACE         1 WEEK         TSC - STAN KOLIC - #615.440.4824         T           CONTRACTOR         1 WEEK         STG - STAN KOLIC - #615.440.4824         T           CONTRACTOR         1 WEEK         BLAY NETWORK (NSTALLED BY TSC         1 WEEK <td></td> <td>3 WEEKS</td> <td>TSC - STAN KOLIC - #615.440.4824</td> <td>CONTRACTOR</td>		3 WEEKS	TSC - STAN KOLIC - #615.440.4824	CONTRACTOR		
IETER INFORMATION         15 DAYS PRIOR TO FIXTURE DATE         ECOVA - TractorSupplyOPCL_insight@engle.com         CONTRACTOR           NIFIRST - MOPS AND MATS         1         WEEK         UMIFIRST - #888.85.12474 X 5         TSC STORE ADMINISTRATION           ERMINIX - (PEST CONTROL)         1         WEEK         TERMINIX - #866.818.4573         TSC STORE ADMINISTRATION           BRAD COOPER (615.440.4965) locoper@tractorsupply.com         TSC STORE ADMINISTRATION         BRAD COOPER (615.440.4965) locoper@tractorsupply.com         TSC STORE ADMINISTRATION           OCK-TENN WASTE MANAGEMENT         1         WEEK         CAROLINE RICE (615.440.4965) locoper@tractorsupply.com         TSC STORE ADMINISTRATION           BRAD COOPER (615.440.4965) locoper@tractorsupply.com         TSC STORE ADMINISTRATION         TSC STORE ADMINISTRATION           BRAD COOPER (615.440.4965) locoper@tractorsupply.com         TSC STORE ADMINISTRATION         TSC STORE ADMINISTRATION           VEEVOE DESK NAD RECEVING DESK CONNECT         1         WEEK         CAROLINE RICE (615.440.4705) crice@tractorsupply.com         TSC STORE ADMINISTRATION           ROPANE PROVIDER TO FILL PROPANE DISTRIBUTION         1         WEEK         TSC STORE ADMINISTRATION         TSC STORE ADMINISTRATION           ROPANE PROVIDER TO FILL PROPANE DISTRIBUTION         1         WEEK         MOLLE TRELOAR (615.440.4205) moregitractorsupply.com         TSC STORE ADMINISTRATION <t< td=""><td></td><td>3 WEEKS</td><td></td><td>CONTRACTOR</td></t<>		3 WEEKS		CONTRACTOR		
INIFIRST - MOPS AND MATS         1         WEEK         UNIFIRST - #888.851.2474 X 5 BRAD COOPER (615.440.4965) bocoper@tractorsupply.com         TSC STORE ADMINISTRATION           ERMINIX - (PEST CONTROL)         1         WEEK         TERMINIX - #868.181.2474 X 5 BRAD COOPER (615.440.4965) bocoper@tractorsupply.com         TSC STORE ADMINISTRATION           OCK-TEINN WASTE MANAGEMENT         1         WEEK         TRUNINK - #868.184.4573         TSC STORE ADMINISTRATION           UMPSTER SERVICE (40 YARD DUMPSTER)         1         WEEK         RAD COOPER (615.440.4965) bocoper@tractorsupply.com         TSC STORE ADMINISTRATION           BRAD COOPER (615.440.4965) bocoper@tractorsupply.com         TSC STORE ADMINISTRATION         BRAD COOPER (615.440.4965) bocoper@tractorsupply.com         CONTRACTOR           ERVICE DESK AND RECEIVING DESK, REGISTER         1         WEEK         CAROLINE RICE (615.440.4924         TT           SPELING INSTALLED TO REGISTER COUNTERS, ENVICE DESK AND RECEIVING DESK CONNECT         1         WEEK         TSC STORE ADMINISTRATION           ROPANE PROVIDER TO FILL PROPANE DISTRIBUTION ANK         1         WEEK         MOLLIE TRELOAR (615.440.4923) metradirelorsupply.com         TSC STORE ADMINISTRATION AMAH GRAYTON (615.442.809) mcrayting/tractorsupply.com         TSC STORE ADMINISTRATION AMAH GRAYTON (615.442.809) mcrayting/tractorsupply.com         TSC STORE ADMINISTRATION AMAH GRAYTON (615.442.809) mcrayting/tractorsupply.com         TSC STORE ADMINISTRATION AMAH GRAYTON (615.442.82						
BRAD COOPER (infs.440.4965) boooper@tractorsupply.com           ERMINIX - (PEST CONTROL)         1 WEEK         TERMINIX - #866.618.4573 BRAD COOPER (infs.440.4965) boooper@tractorsupply.com         TSC STORE ADMINISTRATION           OCK-TENN WASTE MANAGEMENT         1 WEEK         ROCK-TENN WASTE MANAGEMENT - 800.338.879 BRAD COOPER (infs.440.4965) boooper@tractorsupply.com         TSC STORE ADMINISTRATION           UMPSTER SERVICE (40 YARD DUMPSTER)         1 WEEK         CARCUME RICE (infs.440.4965) boooper@tractorsupply.com         CONTRACTOR           UNIPSTERS WITH POWER POLES SET IN PLACE         1 WEEK         CARCUME RICE (infs.440.4965) boooper@tractorsupply.com         CONTRACTOR           ABELING INSTALLED TO REGISTER OUNTERS, ENVOE DESK, AND RECEIVING DESK. CONNECT         1 WEEK         TSC - STAN KOLIC - #615.440.4824         IT           CAPRENAMENT POWER         1 WEEK         PLAY NETWORK - #900.342.0105         TSC STORE ADMINISTRATION BRAD COOPER (infs.440.4965) boooper@tractorsupply.com         TSC STORE ADMINISTRATION           ROPANE PROVIDER TO FILL PROPANE DISTRIBUTION         1 WEEK         MOLLE TRICLAR (infs.440.4263) mrotogrigetractorsupply.com         TSC STORE ADMINISTRATION           XTERIOR DRESSING ROOM WALLS PAINTED & DRIED         1 WEEK         SITE SUPERVISOR         CONTRACTOR           CONTRACTOR         1 WEEK         SITE SUPERVISOR         CONTRACTOR           CONTRACTOR TO COORDINATE INSTALLATION OF INTURES PRIOR TO THIS WEEK, INCLUDING SEGING						
BRAD COOPER (615.440.4966) bcooper@tractorsupply.com           OCK-TENN WASTE MANAGEMENT         1 WEEK         ROCK-TENN WASTE MANAGEMENT - #800.333.8879         TSC STORE ADMINISTRATION           UMPSTER SERVICE (40 YARD DUMPSTER)         1 WEEK         RAD COOPER (615.440.4705) crice@tractorsupply.com         CONTRACTOR           ERVICE DESK, RECEIVING DESK, REGISTER         1 WEEK         CAROLINE RICE (615.440.4705) crice@tractorsupply.com         CONTRACTOR           ABELING INSTALLED TO REGISTER COUNTERS, ABELING INSTALLED BY SC         1 WEEK         TSC - STAN KOLIC - #615.440.4824         IT           CAPOPANE PROVIDER TO FILL PROPANE DISTRIBUTION         1 WEEK         PLAY NETWORK + #800.342.0105         TSC STORE ADMINISTRATION           ROPANE PROVIDER TO FILL PROPANE DISTRIBUTION         1 WEEK         MOLLE TRELOAP (615.440.4823) mitreloar@tractorsupply.com         TSC STORE ADMINISTRATION           ANK         XTERIOR DRESSING ROOM WALLS PAINTED & DRIED         1 WEEK         MOLLE TRELOAP (615.440.4230) mitreloar@tractorsupply.com         TSC STORE ADMINISTRATION           NUTRACTOR TO COORDINATE INSTALLATION OF XTERIOR DRESSING ROOM WALLS PAINTED & DRIED         1 WEEK         SITE SUPERVISOR         CONTRACTOR           ONTRACTOR TO TO HIS WEEK, INCLUDING SEISMIC NOHORING FOR FIXTURES WHEN REQUIRED.         FIXTURE WEEK         CONTRACTOR         CONTRACTOR           SITURES PRIOR TO THIS WEEK, INCLUDING SEISMIC NOHORING FOR FIXTURES WHEN REQUIRED.         F			BRAD COOPER (615.440.4965) bcooper@tractorsupply.com			
JUMPSTER SERVICE (40 YARD DUMPSTER)         BRAD COOPER (615.440.4965) bcooper@tractorsupply.com           SERVICE DESK, RECEIVINO DESK, REGISTER         1 WEEK         CARDLINE RICE (615.440.4705) orice@tractorsupply.com         CONTRACTOR           SUDUTERS WITH POWER POLES SET IN PLACE         1 WEEK         TSC - STAN KOLIC - #615.440.4965) bcooper@tractorsupply.com         CONTRACTOR           SABELING INSTALLED TO REGISTER COUNTERS, DERIVICE DESK AND RECEIVING DESK CONNECT         1 WEEK         TSC - STAN KOLIC - #615.440.4965) bcooper@tractorsupply.com         TSC STORE ADMINISTRATION           ROPANE PROVIDER TO FILL PROPANE DISTRIBUTION         1 WEEK         MUELE TRELOAR (615.440.4296) microarg/oractorsupply.com         TSC STORE ADMINISTRATION           ROPANE PROVIDER TO FILL PROPANE DISTRIBUTION         1 WEEK         SITE SUPERVISOR         CONTRACTOR           XITERIOR DRESSING ROOM WALLS PAINTED & DRIED         1 WEEK         SITE SUPERVISOR         CONTRACTOR           XITERIOR DRESSING ROOM WALLS PAINTED & CRIVE         FIXTURE WEEK         SITE SUPERVISOR         CONTRACTOR           XITERIOR DRESSING ROOM WALLS PAINTED & LORIC         FIXTURE WEEK         SITE SUPERVISOR         CONTRACTOR           XITERIOR DRESSING ROOM WALLS PAINTED & ADRIED         1 WEEK         SITE WEEK/INDON         CONTRACTOR           SITURES WHEN REQUIRED.         FIXTURE WEEK         SITE SUPERVISOR         CONTRACTOR           SITURE	· · · ·		BRAD COOPER (615.440.4965) bcooper@tractorsupply.com			
XOUNTERS WITH POWER POLES SET IN PLACE       Image: Construction of the set of th	DUMPSTER SERVICE (40 YARD DUMPSTER)		BRAD COOPER (615.440.4965) bcooper@tractorsupply.com			
ERVICE DESK AND RECEIVING DESK CONNECT         Image: mail of the system         State in the system <ths< td=""><td>OUNTERS WITH POWER POLES SET IN PLACE</td><td></td><td></td><td></td></ths<>	OUNTERS WITH POWER POLES SET IN PLACE					
BRAD COOPER (615.440.4965) bcooper@tractorsupply.comROPANE PROVIDER TO FILL PROPANE DISTRIBUTION1 WEEKMOLLIE TRELOAR (615.440.4230) mtreloar@tractorsupply.comTSC STORE ADMINISTRATIONXXTERIOR DRESSING ROOM WALLS PAINTED & DRIED1 WEEKSITE SUPERVISORCONTRACTORXDNTRACTOR TO COORDINATE INSTALLATION OF IXTURES PRIOR TO THIS WEEK, INCLUDING SEISMIC INCHORING FOR FIXTURES WHEN REQUIRED.FIXTURE WEEKCONTRACTORRANSITION WEEK - ALL CONSTRUCTION ACTIVITIES RANSITION WEEK - ALL CONSTRUCTION ACTIVITIES IS BACKROOM AND SIDELOT FIXTURES (1/2 TRUCK)FIXTURE WEEKCAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONIS - BACKROOM AND SIDELOT FIXTURES (1/2 TRUCK)4 DAYS (THURSDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONIATIONAL CART - CART CORRAL (1/2 TRUCK)4 DAYS (THURSDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONIAEG - FIXTURES (3/4 OF A TRUCK)3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONIACK - FIXTURES - FULL TRUCK3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONIACK - FIXTURES - FULL TRUCK3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONIACK - FIXTURES - FULL TRUCK3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONIACK - FIXTURES - FULL TRUCK3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONIACK -	SERVICE DESK AND RECEIVING DESK CONNECT	1 WEEK	TSC - STAN KOLIC - #615.440.4824	IT		
TANKMARIAH CRAYTON (615.647.2639) mcrayton@tractorsupply.comEXTERIOR DRESSING ROOM WALLS PAINTED & DRIED1 WEEKSITE SUPERVISORCONTRACTORCONTRACTOR TO COORDINATE INSTALLATION OF TXTURES PRIOR TO THIS WEEK, INCLUDING SEISMIC ANCHORING FOR FIXTURES WHEN REQUIRED.FIXTURE WEEKCONTRACTORITRANSITION WEEK - ALL CONSTRUCTION ACTIVITIES ARE TO BE COMPLETED PRIOR TO THIS WEEK,FIXTURE WEEKCONTRACTORSOS (FULL TRUCK)5 DAYS (WEDNESDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONJS - BACKROOM AND SIDELOT FIXTURES (1/2 TRUCK)4 DAYS (THURSDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONVATIONAL CART - CART CORRAL (1/2 TRUCK)4 DAYS (THURSDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONVATIONAL CART - CART CORRAL (1/2 TRUCK)3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONOZIER - FIXTURES (3/4 OF A TRUCK)3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONOZIER - FIXTURES - FULL TRUCK3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONOCK-TENN WASTE MANAGEMENT - RETURN 40 YARDSOFT OPENINGROCK-TENN WASTE MANAGEMENT (800.333.8879) BRAD COOPER (615.440.4965) bocope@tractorsupply.comTSC STORE ADMINISTRATIONDUMPSTER AND GET REGULAR SERVICE2 WEEKS TO SOFT OPENINGTELECHECK - MAX PUENTE - #713.331.7018TSC STORE ADMINISTRATION	PLAY NETWORK INSTALLED BY TSC	1 WEEK		TSC STORE ADMINISTRATION		
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TATURES PRIOR TO THIS WEEK, INCLUDING SEISMIC ANCHORING FOR FIXTURES WHEN REQUIRED.FIXTURE WEEKCONTRACTORTRANSITION WEEK - ALL CONSTRUCTION ACTIVITIES ARE TO BE COMPLETED PRIOR TO THIS WEEK.FIXTURE WEEKCONTRACTORSOS (FULL TRUCK)5 DAYS (WEDNESDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONJS - BACKROOM AND SIDELOT FIXTURES (1/2 TRUCK)4 DAYS (THURSDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONJATIONAL CART - CART CORRAL (1/2 TRUCK)4 DAYS (THURSDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONJOZIER - FIXTURES (3/4 OF A TRUCK)3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONJOZIER - FIXTURES - FULL TRUCK3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONROCK-TENN WASTE MANAGEMENT - RETURN 40 YARD DUMPSTER AND GET REGULAR SERVICESOFT OPENINGROCK-TENN WASTE MANAGEMENT (800.333.8879) BRAD COOPER (615.440.4965) bcooper@tractorsupply.comTSC STORE ADMINISTRATIONTELECHECK MACHINES2 WEEKS TO SOFT OPENINGTELECHECK - MAX PUENTE - #713.331.7018TSC STORE ADMINISTRATION			SITE SUPERVISOR			
ARE TO BE COMPLETED PRIOR TO THIS WEEK.CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONSOS (FULL TRUCK)5 DAYS (WEDNESDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONIS - BACKROOM AND SIDELOT FIXTURES (1/2 TRUCK)4 DAYS (THURSDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONVATIONAL CART - CART CORRAL (1/2 TRUCK)4 DAYS (THURSDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONVAEG - FIXTURES (3/4 OF A TRUCK)3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATION.OZIER - FIXTURES - FULL TRUCK3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATION.OZIER - FIXTURES - FULL TRUCK3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATION.OZIER - FIXTURES - FULL TRUCK3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATION.OZIER - FIXTURES - FULL TRUCK3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATION.OZIER - FIXTURES - FULL TRUCK3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATION.OZIER - FIXTURES - FULL TRUCK3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATION.OZIER - FIXTURES - FULL TRUCK3 DAYS (FRIDAY)CAROLINE RICE (615.440.4965) bcooper@tractorsupply.comTSC STORE ADMINISTRATION.OUMPSTER AND GET REGULAR SERVI	IXTURES PRIOR TO THIS WEEK, INCLUDING SEISMIC	FIXTURE WEEK		CONTRACTOR		
LIS - BACKROOM AND SIDELOT FIXTURES (1/2 TRUCK)4 DAYS (THURSDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONJATIONAL CART - CART CORRAL (1/2 TRUCK)4 DAYS (THURSDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONJATIONAL CART - CART CORRAL (1/2 TRUCK)4 DAYS (THURSDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONJAEG - FIXTURES (3/4 OF A TRUCK)3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONJOZIER - FIXTURES - FULL TRUCK3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATIONROCK-TENN WASTE MANAGEMENT - RETURN 40 YARDSOFT OPENINGROCK-TENN WASTE MANAGEMENT (800.333.8879) BRAD COOPER (615.440.4965) bcooper@tractorsupply.comTSC STORE ADMINISTRATIONTELECHECK MACHINES2 WEEKS TO SOFT OPENINGTELECHECK - MAX PUENTE - #713.331.7018TSC STORE ADMINISTRATION		FIXTURE WEEK		CONTRACTOR		
IATIONAL CART - CART CORRAL (1/2 TRUCK)4 DAYS (THURSDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATION//EG - FIXTURES (3/4 OF A TRUCK)3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATION//OZIER - FIXTURES - FULL TRUCK3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATION//OZIER - FIXTURES - FULL TRUCK3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATION//OCK-TENN WASTE MANAGEMENT - RETURN 40 YARDSOFT OPENINGROCK-TENN WASTE MANAGEMENT (800.333.8879) BRAD COOPER (615.440.4965) bcooper@tractorsupply.comTSC STORE ADMINISTRATION//ELECHECK MACHINES2 WEEKS TO SOFT OPENINGTELECHECK - MAX PUENTE - #713.331.7018TSC STORE ADMINISTRATION	OS (FULL TRUCK)	5 DAYS (WEDNESDAY)	CAROLINE RICE (615.440.4705) crice@tractorsupply.com	TSC STORE ADMINISTRATION		
Aleg - FIXTURES (3/4 OF A TRUCK)3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATION.OZIER - FIXTURES - FULL TRUCK3 DAYS (FRIDAY)CAROLINE RICE (615.440.4705) crice@tractorsupply.comTSC STORE ADMINISTRATION.OCK-TENN WASTE MANAGEMENT - RETURN 40 YARDSOFT OPENINGROCK-TENN WASTE MANAGEMENT (800.333.8879) BRAD COOPER (615.440.4965) bcooper@tractorsupply.comTSC STORE ADMINISTRATION.OUMPSTER AND GET REGULAR SERVICE2 WEEKS TO SOFT OPENINGTELECHECK - MAX PUENTE - #713.331.7018TSC STORE ADMINISTRATION	IS - BACKROOM AND SIDELOT FIXTURES (1/2 TRUCK)	4 DAYS (THURSDAY)	CAROLINE RICE (615.440.4705) crice@tractorsupply.com	TSC STORE ADMINISTRATION		
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ROCK-TENN WASTE MANAGEMENT - RETURN 40 YARD       SOFT OPENING       ROCK-TENN WASTE MANAGEMENT (800.333.8879)       TSC STORE ADMINISTRATION         DUMPSTER AND GET REGULAR SERVICE       2 WEEKS TO SOFT OPENING       TELECHECK - MAX PUENTE - #713.331.7018       TSC STORE ADMINISTRATION		,				
DUMPSTER AND GET REGULAR SERVICE       BRAD COOPER (615.440.4965) bcooper@tractorsupply.com         TELECHECK MACHINES       2 WEEKS TO SOFT OPENING       TELECHECK - MAX PUENTE - #713.331.7018       TSC STORE ADMINISTRATION		,				
	ROCK-TENN WASTE MANAGEMENT - RETURN 40 YARD DUMPSTER AND GET REGULAR SERVICE	SOFT OPENING	· · · · · · · · · · · · · · · · · · ·	TSC STORE ADMINISTRATION		
	TELECHECK MACHINES	2 WEEKS TO SOFT OPENING		TSC STORE ADMINISTRATION		

# LVW RESPONSIBILITY AND TIMING PLAN

RETROFITS			
ACTION	BY WHO	WHEN	SPECIAL NOTES
STORE ADDED TO SOS	TSC REAL ESTATE	1ST MONDAY OF EACH MONTH	
TSC ARCHITECT TO SEND BASE PLAN TO SECURITY SYSTEMS CONTRACTOR	TSC PM	10-20 DAYS AFTER ADDED TO SOS	
CODES RESEARCHED, BA AND FA PLANS	JCI / ADT	UPON RECEIPT OF BASE PLAN	
TSC ARCHITECT TO NOTIFY SECURITY SYSTEMS CONTRACTOR VIA EMAIL THAT FULL SET OF PLANS IS AVAILABLE AT PLAN EXPRESS	TSC PM	20-30 DAYS AFTER REC APPROVAL	SECURITY SYSTEMS CONTRACTOR TO IDENTIFY EXIST. HVAC UNITS BY LL PER THE CHECKLIST
SECURITY SYSTEM COMPLETED PLANS SENT TO RICH WOOD AND TSC PM	JCI / ADT	W/IN 3 DAYS OF RECEIPT OF FULL SET OF PLANS	
TSC ARCHITECT TO INSERT SECURITY SYSTEM PLANS INTO SET FOR PERMIT	TSC PM	UPON RECEIPT OF SECURITY SYSTEMS PLAN	
GC TO CONTACT ASSIGNED LVW VENDORS FOR PRICING	TSC PM	VERIFIED AT BID EVALUATION	
GC / LVW VENDOR FINISHED ALL LVW SOW PER PLANS	MERCURY TECH	NO LESS THAN 2 WEEKS PRIOR TO FD	PLEASE BE SURE TO VERIFY HVAC SYSTEMS (GROUND MOUNT VS. ROOF MOUNT, ETC)
SECURITY SYSTEMS CONTRACTOR TO INSTALL THEIR EQUIPMENT AND MAKE TERMINATIONS	JCI / ADT	STARTING APPROXIMATELY 3 WEEKS FROM FD TO WEDNESDAY PRIOR TO FD. TERMINATION TO BE DONE LAST AS LVW VENDOR COMPLETES NO LATER THAN 2 WEEKS PRIOR TO FD.	
INSTALLATION OF PA SYSTEM, PHONE SYSTEM, SPEAKERS, OUTSIDE HORNS,	STAN KOLIC / MERCURY TECH	MONDAY AND TUESDAY BEFORE FD	
PHONES, PATCH PANEL, AP'S W/ ANTENNAS INSTALLATION OF POS SYSTEMS AT ALL LOCATIONS AND TESTING OF AP SYSTEM	STAN KOLIC / AGYLISIS	THURSDAY BEFORE FD	



# NEXA OTODE TIME AND ACTION OAL ENDAD

# GENERAL NOTES:

- 1. ALL CONSTRUCTION AND DETAILS SHALL COMPLY WITH ALL APPLICABLE S DRAWINGS. ANY DEVIATIONS FROM BUILDING CODES REQUIRES NOTIFICATI THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS OF THE SITE. DISCR PROCEEDING WITH CONSTRUCTION. 3. REMOVE ALL CONSTRUCTION AND DEMOLITION DEBRIS FROM JOB SITE DAIL 4. FIRE EXTINGUISHERS SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCA
- 5. ALL DIMENSIONS ARE FACE OF DRYWALL AT NEW WALLS AND TO FINISHED 6. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS. 7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS. IF DISCREPANCIES ARE FOUR
- 8. THRESHOLDS SHALL NOT EXCEED 1/2 INCH IN HEIGHT. 9. DRYWALL TO BE HELD UP 1/2" ABOVE CONCRETE FLOOR.
- 10. THE FOLLOWING ITEMS ARE FURNISHED BY T.S.C. AND INSTALLED BY THE C QUANTITY ITEM 1 SET RESTROOM ACCESSORIES (NOT INCLUDING MIRRORS)
  - FIRE EXTINGUISHERS BRAILLE SIGNAGE
- 11. THE FOLLOWING ITEMS ARE FURNISHED AND INSTALLED BY T.S.C. QUANTITY ITEM "OPEN" SIGN 1
  - "CUB CADET" SIGN
- T.S.C. ROAD SIGN, GENERAL CONTRACTOR TO PROVIDE POWER COORDINATE WITH SIGN COMPANY ASSIGNED TO THIS LOCATIO 1 SECURITY VENDOR WORK (NOT INCLUDING LVW) PAID BY TSC 12. SPECIFIC MANUFACTURERS AND PRODUCTS ARE NAMED ON THE DRAWINGS BETTER PRODUCTS WILL BE CONSIDERED. SUBSTITUTES MUST BE APPROVE 13. ALL OFFICE WALLS TO BE INSULATED.
- 14. CONCEAL ALL PIPING IN WALLS. WHERE PIPING IS TOO LARGE WALLS ARE T 15. PROVIDE WATER RESISTANT GYPSUM BOARD BEHIND ALL PLUMBING FIXTUR 16. ALL COUNTERTOPS TO BE 2'-0" IN DEPTH UNLESS OTHERWISE NOTED.
- 17. PROVIDE SOLID BLOCKING FOR WALL HUNG CABINETS, PLUMBING FIXTURES 18. ALL MATERIALS USED BY ALL TRADES SHALL BE LISTED AND LABELED BY AN 19. TSC RESERVES THE RIGHT TO REVIEW THE BUILDING ON OR BEFORE THE EXI ITEMS ARE FOUND THE LL SHALL IMMEDIATELY CORRECT THE CONDITION A
- 20. WHEN SOS TRUCK COMES AS SCHEDULED, GENERAL CONTRACTOR TO ASS TRUCK CONTENTS. IF GENERAL CONTRACTOR REQUESTS SOS TRUCK EARLY REQUIRED TO UNLOAD AND PROPER PLACEMENT AND STORAGE OF CONTEN
- 21. GENERAL CONTRACTOR TO PROVIDE 2 COPIES OF SITE PLAN AND ELEVATION TSC. 1 COPY OF ELEVATIONS TO POP SOLUTIONS, RICK TOWNE @ 901.795.59 THPAYNE@TRACTORSUPPLY.COM), NO LATER THAN TWO WEEKS OF STARTIN 22. GENERAL CONTRACTOR SHALL COORDINATE ENTIRE PROJECT AND SCHEDU
- INSPECTIONS. CONTACT TSC, RICH WOOD @ 615.440.4721 FOR THE ALARM ( CONSTRUCTION START. REFER TO THE SECURITY VENDOR PRE-CONSTRUCTION 23. CLOSE-OUT REQUIREMENTS, REFER TO LEASE / CONTRACT. FOR QUESTIONS 24. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ANY DUCT SM
- ALARM COMPANY. 25. THE GENERAL CONTRACTOR SHALL PAY FOR ALL UTILITY COST DURING CON TWO WEEKS PRIOR TO FIXTURE DATE FOR TRANSFER TO TSC.
- 26. DOCK ACCESS FROM ROAD MUST BE ACHIEVED 3 WEEKS PRIOR TO FIXTURE 27. THE GENERAL CONTRACTOR OR LANDLORD SHALL SUBMIT A REPORT, ON A THE SCHEDULE USING THE TSC WEEKLY PROGRESS REPORT ALONG WITH P
- 28. THE GENERAL CONTRACTOR SHALL PROVIDE FOR INDEPENDENT INSPECTIO AND STRENGTH. THE RESULTS ARE TO BE SUBMITTED TO THE OWNER THE G INSTALLATION OF THE STRUCTURAL STEEL OR PRE-ENGINEERED METAL BUIL 29. FOR RED STRIPING, CONTACT POP SOLUTIONS AT 901-795-5936, ACCOUNT F
- 30. LANDLORD/LANDLORD GENERAL CONTRACTOR TO VERIFY WITH LOCAL POS INSTALL MAILBOX TYPE AND LOCATION PER THE POSTMASTER RECOMMEND 31. 'J' MOLD TO BE USED AT ALL INTERSECTIONS OF GYPSUM BOARD AND ANY 32. CORNER GUARDS TO BE USED AT ALL INTERIOR 'OUTSIDE' CORNER CONDITIO
- 33. DURING CONSTRUCTION, ANY PARTIALLY COMPLETED MASONRY WALLS (CN MATERIAL DURING ALL TIMES WHEN CONSTRUCTION IS NOT IN PROGRESS A DRAPED OVER THE WALL AND EXTEND A MINIMUM OF (2) TWO FEET DOWN F 34. FOR SOS TRUCK DELIVERIES ON RELO STORES, COORDINATE WITH TSC STOR
- RENTAL TOW-MOTOR DROP. RENTAL TOW-MOTOR SHOULD ARRIVE NO LATE WILL BE PICKED-UP THE MONDAY FOLLOWING THE STORE'S SOFT OPENING 35. FINISHED SPACE SHALL BE PROVIDED IN A MANNER THAT PREVENTS RODEN AN AEROSOL, MOISTURE-CURING POLYURETHANE FOAM SIMILAR TO "PUR
- 36. CONCRETE MASONRY UNITS AND EXTERIOR CONCRETE MOISTURE CONTEN SHALL PROVIDE MOISTURE TESTING OF ALL CMU AND CONCRETE EXTERIOR 37. TSC PROJECT MANAGER MUST APPROVE THE APPLICATION OF PAINT IN WR 38. GENERAL CONTRACTOR TO HAVE A LOCAL CONTACT WITHIN 2-HOURS FOR
- 39. ADD STEEL WOOL AT ALL CONDUIT/PIPE PENETRATIONS AT EXTERIOR WALL EDGES TO PREVENT RODENT INTRUSION. 40. AT EXISTING HVAC CURBS, CONTRACTOR TO INSTALL STEEL WOOL AND CLC

INTRUSION. CONTRACTOR TO VERIFY ALL WARRANTIES REMAIN INTACT ANE FINAL FIXTURE PLAN TO BE RECEIVED BY CONTRACTOR AND/OR LL APPROXIMATE ALL COUNTERS, POWER POLES, AND WOOD GRAIN FLOORING.

# **CLOSE-OUT BINDER REQU**

<ol> <li>RED</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> </ol>	THE CLOSE-OUT BINDER SHALL BE SENT ATTN TO THE CONSTR BRENTWOOD, TN 37027. NAME, ADDRESS AND TELEPHONE NUMBER OF THE CONTRACT THE FINAL CERTIFICATE OF OCCUPANCY OR THE EQUIVALENT T AN ASSIGNMENT BY THE CONTRACTOR OF ALL GUARANTEES A MANUFACTURERS, TOGETHER WITH ORIGINALS OF ALL SUCH G DOORS, WATER HEATER, ETC. AS APPLICABLE). COMPLETE LIST OF EQUIPMENT - COMPLETE TEMPLATE. CONFIRMATION IN WRITING FROM THE INSTALLER OF THE HVAC START-UP PROCEDURES WERE FOLLOWED. COMPLETE RETROFIT HVAC BREAKDOWN OF COSTS - COMPLETE COMPLETE PROTOTYPE HVAC INFORMATION - COMPLETE TEMP
<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> </ol>	NAME, ADDRESS AND TELEPHONE NUMBER OF THE CONTRACT THE FINAL CERTIFICATE OF OCCUPANCY OR THE EQUIVALENT T AN ASSIGNMENT BY THE CONTRACTOR OF ALL GUARANTEES AN MANUFACTURERS, TOGETHER WITH ORIGINALS OF ALL SUCH G DOORS, WATER HEATER, ETC. AS APPLICABLE). COMPLETE LIST OF EQUIPMENT - COMPLETE TEMPLATE. CONFIRMATION IN WRITING FROM THE INSTALLER OF THE HVAC START-UP PROCEDURES WERE FOLLOWED. COMPLETE RETROFIT HVAC BREAKDOWN OF COSTS - COMPLETE COMPLETE PROTOTYPE HVAC INFORMATION - COMPLETE TEMP
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4. 5. 6. 7. 8.	MANUFACTURERS, TOGETHER WITH ORIGINALS OF ALL SUCH G DOORS, WATER HEATER, ETC. AS APPLICABLE). COMPLETE LIST OF EQUIPMENT - COMPLETE TEMPLATE. CONFIRMATION IN WRITING FROM THE INSTALLER OF THE HVAC START-UP PROCEDURES WERE FOLLOWED. COMPLETE RETROFIT HVAC BREAKDOWN OF COSTS - COMPLETE COMPLETE PROTOTYPE HVAC INFORMATION - COMPLETE TEMP
5. 6. 7. 8.	CONFIRMATION IN WRITING FROM THE INSTALLER OF THE HVAC START-UP PROCEDURES WERE FOLLOWED. COMPLETE RETROFIT HVAC BREAKDOWN OF COSTS - COMPLET COMPLETE PROTOTYPE HVAC INFORMATION - COMPLETE TEMP
6. 7. 8.	START-UP PROCEDURES WERE FOLLOWED. COMPLETE RETROFIT HVAC BREAKDOWN OF COSTS - COMPLET COMPLETE PROTOTYPE HVAC INFORMATION - COMPLETE TEMP
7. 8.	COMPLETE PROTOTYPE HVAC INFORMATION - COMPLETE TEMP
8.	
	CERTIFICATE OF SEWER CLEAN-OUT BY THE PERSON WHO PER
9.	DISABILITY ACCESSIBILITY INSPECTION REPORTS SENT TO THE 1
10.	A COPY OF THE PUNCH LIST ITEMS SIGNED BY THE OWNER (OR ITEMS ARE COMPLETED.
11.	(1) PDF CONTAINING WORKING DRAWINGS AND PLANS AND SPE CHANGES, INCLUDING IN .PDF FORMAT.
12.	A COMPLETE SET OF FIRE SPRINKLER SHOP DRAWINGS, IF APPL
13.	A CERTIFICATE EVIDENCING THAT INSURANCE REQUIRED UNDE AND SHALL NOT BE CANCELED, REDUCED, OR ALLOWED TO EX OWNERS.
14.	CERTIFICATION OF WATER WELLS AN/OR SEPTIC SYSTEMS THAT SHOULD INCLUDE ANY ONGOING TESTING AND/OR INSPECTION INSPECTION MUST BE COMPLETED.
15.	DIGITAL PHOTOGRAPHS OF THE 'BEFORE' AND 'AFTER' OF THE FF
16.	ROOFING INSPECTION REPORT FROM THE ROOFING MANUFACT 100% IN TACT).
	CERTIFICATION FROM THE PROJECT CIVIL ENGINEER THAT THE S ACCORDANCE WITH THE APPROVED PLANS AND ALL APPLICAB

TSC PM - SIGNATURE

Q4 2023

NOTE: GENERAL CONTRACTOR / LANDLORD TO SEE LEASE / CONTRACT FOR SPEC

## EXHIBIT H-1: TRAIN

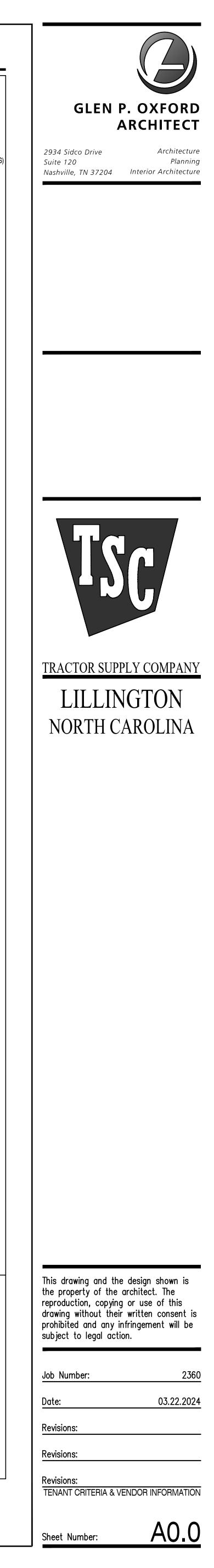
COPY OF THIS EXECUTED DOCUMENT TO BE INCLUDED IN THE CLOSE OUT (FOR RETRO FIT BY TENANT) OR LANDLORD (RETRO FIT BY LL AND GROUND UP F

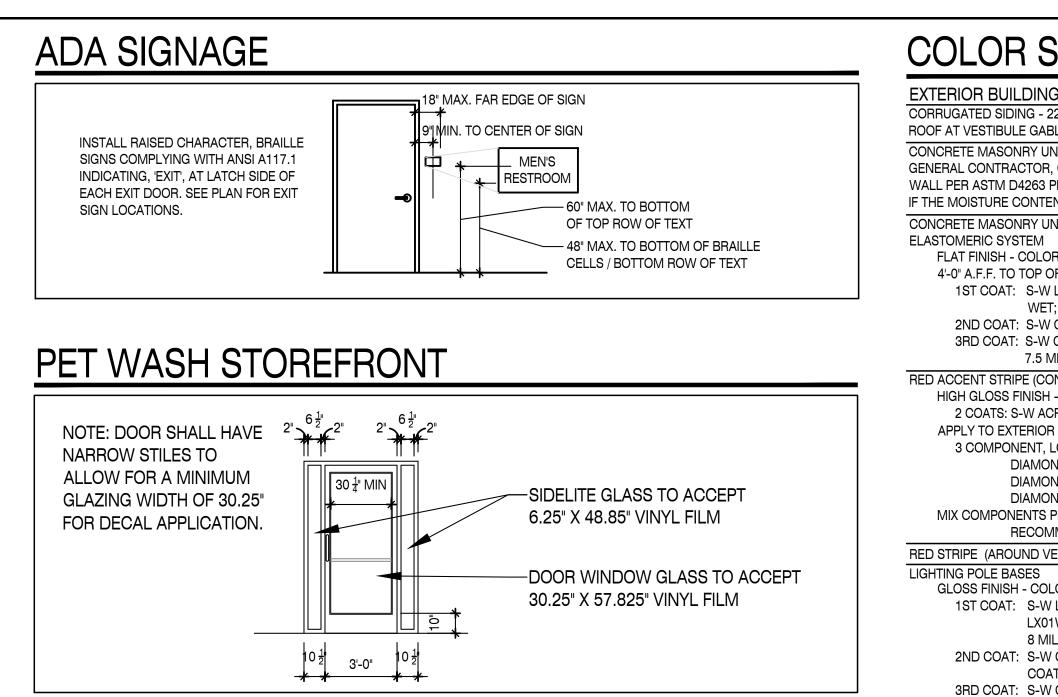
INITIAL TSC STORE MANAGER	INITIAL GC	TRAINING HAS BEEN COMPLETED WITH THE S AND MAINTAIN:
		THE IRRIGATION SYSTEM. ALSO, THE TSC STOP ALL LANDSCAPING STARTING AT EITHER FIXTU
		THE LIGHT TIMER SYSTEM INCLUDING REVIEW
		THE HVAC SYSTEM OPERATION INCLUDING H
		THE AUTOMATIC FRONT DOORS OPERATIONS
		THE OVERHEAD DOORS OPERATIONS INCLU
		THE DELAY EGRESS DOOR (THE RESET BUTTO

STORE #
CITY/STATE
STORE MANAGER

TATE AND LOCAL BUILDING CODES AND ORDINANCES AS OF THE DATE OF THE TION AND APPROVAL FROM TSC PROJECT MANAGER.	(CLOSED SPECIFICATIONS)	
REPANCIES SHALL BE REPORTED TO THE ARCHITECT & OWNER PRIOR TO	TRACTOR SUPPLY FIXTURE PLANS THOMAS PAYNE, RETAIL STORE PLANNER	UTILITY TRANSFER INFORMATION JAMES MASTERS, TSC ENERGY MANAGER
ALY. MAKE JOB PREMISES CLEAN AT COMPLETION OF PROJECT. AL FIRE DEPARTMENT PRIOR TO COMPLETION OF CONSTRUCTION. D FACE AT MASONRY WALLS UNLESS NOTED OTHERWISE.	#615.647.2647 thpayne@tractorsupply.com	ENGIE #615.440.4396
JND, THE ARCHITECT AND OWNER SHALL BE NOTIFIED IMMEDIATELY.	PEYTON TONEY, RETAIL STORE PLANNER	jmasters@tractorsupply.com tractorsupplyopcl.insight@engie.com
CONTRACTOR.	ptoney@tractorsupply.com DOORS, FRAMES, & DOOR HARDWARE	(FOR LP ACCOUNTS FOR BUILDING HEAT CALL AMERIGA
SUNTRACION.	NATIONAL ACCOUNTS CONSTRUCTION TEAM (NAC)	RON KING, NATIONAL ACCOUNTS MANAGER
	DH PACE #888.722.3667 X 10031	ADT ronaldking@adt.com
	LEAD TIME: 2 WEEKS - HOLLOW METAL FRAMES	DUKE DAUGHTREY, PROJECT MANAGER ADT
R TO SIGN BASE.	3 WEEKS - PRE-PAINTED & HPI DOORS 6-8 WEEKS - WIND RATED ASSEMBLIES & COASTAL *DH PACE UNCRATING DOOR PACKAGE QR CODE:	#229.896.5041 ddaughtrey@adt.com
	SCAN WITH SMARTPHONE OR TABLET TO WATCH VIDEO	
GS TO INDICATE THE MINIMUM ACCEPTABLE LEVEL OF QUALITY. EQUAL OR ED BY TSC PM.	SECTIONAL DOORS NATIONAL ACCOUNTS CONSTRUCTION TEAM (NAC)	CAMERON KEANE, ACCOUNT MANAGER CAROLINA PRODUCTS, INC. (CPI) #704.364.9029 OFFICE
TO BE FURRED OUT A MINIMUM TO CONCEAL PIPING. RES.	DH PACE #888.722.3667 X 10031	#919.621.9038 CELL cameronk@cpipanels.com
S, ACCESSORIES AND MILLWORK.	tscdoors@dhpace.com LEAD TIME: 5-6 WEEKS - SECTIONAL & COILING DOORS	LEAD TIME: 6 WEEKS
AN APPROVED AGENCY AND INSTALLED PER THE MANUFACTURES INSTRUCTIONS. XPIRATION OF THE LL'S ONE YEAR WARRANTY. IF ANY WARRANTY OR PUNCH LIST AT ITS' EXPENSE.	*USE COILING DOORS IN HIGH IMPACT REGIONS	EMS GAGE PERRY
SIST TSC STORE MANAGER WITH THE UNLOADING AND STORAGE OF ALL SOS Y, GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL LABOR AND EQUIPMENT	STOREFRONT DOORS BILL GERARDIN, NATIONAL ACCOUNT MANAGER	PHILIPS TELETROL #603.716.0636 g.perry@brainboxai.com
ENTS ONCE OFF SOS TRUCK. DNS TO SIGN COMPANY ASSIGNED TO THIS PROJECT. VERIFY SIGN COMPANY W/	ALLEGION ACCESS TECHNOLOGIES #480.257.0619	LOW VOLTAGE PROVIDER
5936 ARCHITECT TO E-MAIL CAD BASE OF FLOOR PLAN TO THOMAS PAYNE, ING CONSTRUCTION. DULE THE ALARM COMPANY FOR ALL ROUGH-IN AND FINAL CONNECTIONS AND	william.gerardin@allegion.com SAMANTHA FAULSTICK, NATIONAL ACCOUNTS PM	TERRY L CORPENING MERCURY TECH PARTNERS, INC.
COMPANY ASSIGNED TO THIS LOCATION NO LATER THAN TWO WEEKS AFTER TION AND PRE-INSTALLATION CHECKLIST.	ALLEGION ACCESS TECHNOLOGIES #843.962.0996	#828.465.7348 x 4221 terry@gomtp.com
IS, CONTACT JULIE BANE @ 615.440.4795. SMOKE DETECTOR FOR NEW WORK ONLY. COORDINATE WITH THE ASSIGNED	samantha.faulstick@allegion.com LEAD TIME: 6 WEEKS	DUANE MULLINS MERCURY TECH PARTNERS, INC.
NSTRUCTION AND CONTACT DEEANA GHOLSON AT ECOVA, INC. #509.329.7516		#828.465.7348 x 4344 duane@gomtp.com
E DATE. A WEEKLY BASIS INDICATING THE PERCENT COMPLETE FOR EACH LINE ITEM ON	BRYAN BIRDWELL VILLA LIGHTING SUPPLY, INC. #314.633.0546	RESTROOM DRYERS
PHOTOS PER PHOTO LOG ON THE BLANK REPORTS PROVIDED BY TSC. ON AND CERTIFICATION FOR FOOTING COMPACTION, AND CONCRETE QUALITY	bryan.birdwell@villalighting.com	ASHLEY MAY WORLD DRYERS DISTRIBUTOR
G.C. SHALL LIKEWISE PROVIDE AN INDEPENDENT INSPECTOR TO CERTIFY PROPER IILDING SYSTEM. REP.: RICK TOWNE.	ADAM CARRIER, NATIONAL ACCOUNTS MANAGER VILLA LIGHTING SUPPLY, INC. #314.633.0532	#800.459.7099 ashley.may@hjcinc.com
STMASTER IF A MAILBOX IS REQUIRED. IF SO, GENERAL CONTRACTOR TO IDATION AND PER USPS STANDARDS.	adam.carrier@villalighting.com	BALER
( OTHER NON-GYPSUM MATERIAL. IONS.	ANNE VOELKER, PRICING CONTACT VILLA LIGHTING SUPPLY, INC. #314.633.0554	CORY GARDNER, NATIONAL ACCOUNTS MANAGER JWR, INC.
MU, BRICK, ETC.) SHALL BE COVERED WITH STRONG WEATHER RESISTIVE AND ESPECIALLY AT THE END OF EACH WORK DAY. THE COVER SHALL BE FROM BOTH SIDES AND SECURELY HELD IN PLACE.	tractorsupply@villalighting.com LEAD TIME:	888.699.2848 cory@jwrinc.net
DRE SERVICES SPECIALIST [CAROLINE RICE (CRICE@TRACTORSUPPLY.COM)] FOR TER THAN THE WEDNESDAY PRIOR TO FIXTURE DATE. THE RENTAL TOW-MOTOR	3-5 DAYS - INT/EXT LIGHTING 3-4 WEEKS - SITE POLE LIGHTING	PROPANE COORDINATION
DATE. NT INTRUSION. SEAL PENETRATIONS THROUGH EXTERIOR WALL SURFACES WITH	HVAC PROVIDER	MOLLIE TRELOAR BUYER - HEATING AND COOLING
BLACK" BY TODOL PRODUCTS, INC. @ 508.651.3818 OR APPROVED EQUAL. NT CRITERIA. GENERAL CONTRACTOR, OR, THE OWNERS TESTING COMPANY R WALL PER ASTM D4263 PRIOR TO APPLICATION OF PAINT.	STEVEN PETER, NATIONAL ACCOUNTS LENNOX #404.403.7083	TRACTOR SUPPLY COMPANY #615.440.4230 mtreloar@tractorsupply.com
RITING, IF THE MOISTURE CONTENT IS ABOVE 15%. A ALL (NON)WARRANTY ELECTRICAL AND/OR PLUMBING CALL BACK REPAIRS.	steven.peter@lennoxind.com	MARIAH CRAYTON
LS AND ADD ESCUTCHEON PLATE AND PROVIDE SEALANT AT ALL ESCUTCHEON	GARRY BAKER LENNOX #800.367.6285	ASSOCIATE BUYER - HEATING AND COOLING TRACTOR SUPPLY COMPANY #615.647.2639
ID APPROVED BY LANDLORD. ELY 8 WEEKS PRIOR TO FIXTURE DATE TO ESTABLISH PROPER PLACEMENT OF	lennoxnationalaccounts@lennoxind.com LEAD TIME: 20 WEEKS	mcrayton@tractorsupply.com
ELT & WEEKS FRICH TO FIXTORE DATE TO ESTABLISH FROPEN FLACEWENT OF	DAVID ARPS, ACCOUNT MANAGER	PARKING SIGNS / BOLLARD COVERS STEPHEN COATS
	YORK / JOHNSON CONTROLS #414.687.7101 DIRECT #800.481.9738 TECH SUPPORT	MCCUE #404.405.8101
UIREMENTS Q4 2023	david.w.arps@jci.com be-na-tractorsupply@jci.com	scoats@mccue.com
S0	JOE RAY, PRODUCT APPLICATION ENGINEER YORK / JOHNSON CONTROLS	PROPANE CANOPY SPENCER BRATTON
OSE-OUT BINDER ON A CD. ALL INFORMATION BELOW MUST BE INCLUDED. TION COORDINATOR AT THE OWNER'S ADDRESS: 5401 VIRGINIA WAY,	#405.419.6631 DIRECT #800.481.9738 TECH SUPPORT joe.ray@jci.com	VERSATUBE BUILDING SYSTEMS #901.614.2192
AND ALL SUBCONTRACTORS.	be-na-tractorsupply@jci.com LEAD TIME: 15-24 WEEKS	ELECTRIC FORKLIFT
REOF DESCRIBED IN ARTICLE 15.5.2(b) WARRANTIES FROM ALL SUBCONTRACTORS, VENDORS, SUPPLIERS, AND RANTEES, WARRANTIES, AND OPERATING MANUALS (E.G. HVAC, ROOF,	METAL RAMP DISTRIBUTOR	CHUCK TOLLEY LIFTONE #615.220.5320
NANTEES, WANNANTIES, AND OPENATING MANDALS (E.G. HVAO, HOOF,	TONY HAMILTON QSI ENVIRONMENTAL & INDUSTRIAL STEEL FABRICATORS	ctolley@liftone.net
YSTEM OR COMPONENTS THEREOF CONFIRMING THAT THE PROPER	#334.793.6878 thamilton@qsisteel.com	MIKE ZECK LIFTONE #615.295.9013
TEMPLATE.	LEAD TIME: 3 WEEKSANDREW STREUTKER	mzeck@liftone.net
RMED THE SAME. KAS DEPARTMENT OF LICENSING AND REGULATION (FOR TEXAS STORES ONLY).	DURA-RAMP, INC. #604.795.9799	BRANDEN HARRISON HYSTER YALE GROUP
ORE MANAGER, IF SO AUTHORIZED BY OWNER) CONFIRMING ALL PUNCH LIST	andrew@duraramp.com LEAD TIME: 3-5 WEEKS	#252.364.6382 branden.harrison@hyster-yale.com
IFICATIONS REFLECTING 'AS-BUILT' CONDITIONS, WITH A SUMMARY LIST OF	GARDEN CENTER	SIGNS
ABLE. THE CONTRACT DOCUMENTS SHALL REMAIN IN FORCE AFTER FINAL PAYMENT	JALIYAH SANFORD MERCHNEY GREENHOUSES	MICHELLE WENDLING, ACCOUNT MANAGER YUNKER SIGNAGE #414.339.5349
RE UNTIL AT LEAST 30 DAYS PRIOR WRITTEN NOTICE HAS BEEN GIVEN TO THE	#864.314.0603 jaliyah@merchneygreenhouses.com	mwendling@yunker.com
EMONSTRATE INSPECTION AND ACCEPTANCE BY THE MUNICIPALITY. THIS THAT ARE REQUIRED AS WELL AS THE INTERVAL AT WHICH TESTING AND/OR	PAINT	SIGNAGE MANUFACTURER PAT PATTERSON
NT VIEW OF THE STORE.	DANIEL CHAISSON, REGIONAL ACCOUNT EXECUTIVE THE SHERWIN-WILLIAMS COMPANY #901.484.3409	SIGN RESOURCES #727.669.6877 X 305
RER (SHOULD REFLECT ROOF PROPERLY INSTALLED AND AS SUCH WARRANTY	daniel.chaisson@sherwin.com	ppatterson@tsrfl.com
ORM WATER DRAINAGE SYSTEM HAS BEEN CONSTRUCTED AND INSTALLED IN LAWS (SEE LEASE EXHIBIT).	TOM KERR, CORPORATE ACCOUNT MANAGER PPG PAINTS	BUTCH JACKSON SIGN RESOURCES #727.669.6877 X 301
DATE	#614.580.8305 thomas.kerr@ppg.com	bjackson@tsrfl.com
CIFIC CHECKLIST	FIXTURE ANCHORING	VINYL PLANK FLOORING MEGAN HUFFMAN
	BRENDON COLLINS, PROJECT MANAGER TAMARACK GROVE #208.908.7874	NORTHSTAR FLOORING #717.903.7085
ING CERTIFICATION	#208.908.7874 brendon.collins@tamarackgrove.com	megan.huffman@northstarflooring.com tractorsupply@northstarflooring.com
DOCUMENTS PROVIDED BY THE GENERAL CONTRACTOR PROJECTS) TO TRACTOR SUPPLY COMPANY!	(RECOMMENDED ONLY)	
ORE MANAGER BY THE GENERAL CONTRACTOR (GC) ON HOW TO USE, OPERATE	FIRE SPRINKLER SYSTEMS	RED STRIPING
MANAGER HAS BEEN ADVISED THAT THE STORE IS RESPONSIBLE FOR MAINTAINING	KAREN PATRICK, ACCOUNT MANAGER JCI #017, 710, 5107	RICK TOWNE POP SOLUTIONS GROUP
DATE OR COMPLETION DATE, THE LATTER OF THE TWO DATES.	#317.710.5137 karen.patrick@jci.com	#901.795.5936 x 19 OFFICE #901.483.5929 CELL rtowne@popsolutionsgroup.com
W TO ADJUST THE PROGRAMMABLE THERMOSTATS.	WASTE AND RECYCLING VENDOR	PRINTING
NCLUDING SENSOR ADJUSTMENTS. NG TIMER, TIMER OVERIDE, AND SAFETY EDGE.	DIANE HUEFFMEIER, PROGRAM MANAGER ROCKTENN COMPANY #314.292.3313	SHERI RYDER PLAN EXPRESS
I IS IN THE CONTROL BOX AND HAS TO BE RESET ANY TIME POWER IS LOST).	dhueffme@rocktenn.com	#866.404.2614 customerservice@planexpress.net
	<u>SKYLIGHTS</u> susan flanagan	
	VELUX COMMERCIAL DAYLIGHTING #864.813.6896	

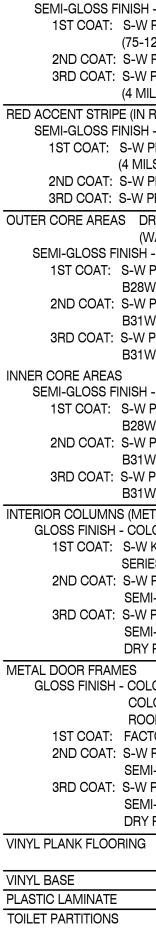
susan.flanagan@velux.com





# DRAIN MANAGEMENT PROGRAM

## ALL DRAINS, VENTS, ETC. MUST BE TAPED OVER DURING CONSTRUCTION TO PREVENT DEBRIS FROM INFILTRATING THE LINES 2. GC/DEVELOPER IS REQUIRED TO SUBMIT PHOTOS OF TAPED DRAINS 3. GC WILL BE FINED \$150 PER DAY IF PHOTOS ARE NOT SUBMITTED BY THE BEGINNING OF WEEK TWO OF THE PROJECT OR IF ANY DRAIN IS DISCOVERED UNCOVERED DURING A PM SITE VISIT. FINES WILL TERMINATE ON THE DAY THAT PHOTOGRAPHIC EVIDENCE OF COMPLETION IS SUBMITTED TO AND VERIFIED BY THE TRACTOR SUPPLY PM. X 4. GC/DEVELOPER WILL BE REQUIRED TO JET AND CAMERA ANY LINE IN WHICH THE DRAIN IS DISCOVERED UNCOVERED. RECEIPTS AND VIDEO MUST BE SUBMITTED TO TRACTOR SUPPLY FOR VERIFICATION. ( X 1 5. DRAIN MANAGEMENT SIGNAGE WILL BE PROVIDED BY TRACTOR SUPPLY AND INSTALLED BY THE GC/DEVELOPER. X 6. IF SIGNAGE IS NOT INSTALLED @ PUNCH, CLEANING/CAMERA POLICY WILL APPLY. 🚺 7. GC WILL BE FINED \$150 PER DAY IF SIGNAGE IS NOT INSTALLED AT PUNCH. 🛛 FINES WILL TERMINATE ON THE DAY THAT PHOTOGRAPHIC EVIDENCE OF COMPLETION IS SUBMITTED TO AND VERIFIED BY THE TRACTOR SUPPLY PM.



SUBCONTRACTOR

FLOOR IN STOCKROOM, IT ROOM

FLOOR IN PET WASH

400 SF/GALLON

- THE MIX.

- APPEARANCE.
- BOARD.

# COLOR SCHEDULE

	(SCHEDULE				
	DING FINISHES:				
	NG - 22 GAUGE GALVANIZED CORRUGATED STEEL PA E GABLE - GALVANIZED STANDING SEAM METAL ROC		MATTE / WEATHERED	' FINISH	
CONCRETE MASON	RY UNITS AND EXTERIOR CONCRETE MOISTURE CON	NTENT C			
WALL PER ASTM D4	CTOR, OR, THE OWNERS TESTING COMPANY SHALL F 4263 PRIOR TO APPLICATION OF PAINT. TSC PROJEC ONTENT IS ABOVE 15%.				
CONCRETE MASON ELASTOMERIC SYS	IRY UNITS FOR CONVENTIONAL BUILDINGS. TEM				NOTE: APPLICATIONS MAY
FLAT FINISH - (	COLOR TO MATCH SW7513 SANDERLING TO 4'-0" A.F. TOP OF C.M.U. ON ALL SIDES.	.F., SW7	7532 URBAN PUTTY F	ROM	UTILIZE BRUSH, ROLLER OR AIRLESS SPRAYER;
	S-W LOXON ACRYLIC BLOCK SURFACER, LX01W020	00 (50-10	00 SQ FT/ GAL @ 16 I	MILS	HOWEVER, ALL COATS MUST BE BACK-ROLLED.
2ND COAT:	WET; 8 MILS DRY) S-W CONFLEX XL SMOOTH HIGH BUILD ACRYLIC CC	DATING,	CF11 SERIES		SEE SHERWIN WILLIAMS
3RD COAT:	S-W CONFLEX XL SMOOTH HIGH BUILD ACRYLIC CC 7.5 MILS PER DRY COAT) (ACCEPTABLE TOLERANCE		•		DATA SHEET APPLICATION RECOMMENDATIONS
HIGH GLOSS FI 2 COATS: S- APPLY TO EXTI 3 COMPONI DI	E (CONCRETE MASONRY UNITS) INISH - COLOR TO MATCH SW4081 SAFETY RED FROM W ACROLON 100, B65R720 PART A SAFETY RED/ B65V ERIOR RED STRIPE ONLY - CLEAR COAT GLOSS FINIS ENT, LOW VOC WATERBASED ACRYLIC POLYURETHA IAMOND-CLAD CLEAR COAT URETHANE GLOSS CLEA IAMOND-CLAD CLEAR COAT URETHANE HARDNER PA	/720 PAF H - DIAN NE CLE AR PART	RT B HARDENER - AP MOND-CLAD WB AR COAT A (B65T175)		-
D	AMOND-CLAD CLEAR COAT URETHANE CATALYST P.	ART C (E	B65C175)	<b>、</b>	
	ENTS PER MANUFACTURERS SPECIFICATIONS COAT A ECOMMENDED SPREAD RATE (WET MILS: 2.4-4.8 ANI			5	
`	ND VESTIBULE BUMP OUT) - BY POP SOLUTIONS TO				
	- COLOR TO BE SW4084 SAFETY YELLOW		NG DOCK GUARDRAI ROOF LADDER	LS, HOLLOW	METAL DOOR FRAMES,
1ST COAT:	S-W LOXON ACRYLIC BLOCK SURFACER, LX01W0200 (50-100 SQ FT/ GAL @ 16 MILS WET;	GL			SW1012 POWER GREY INIVERSAL METAL PRIMER,
	8 MILS DRY) S-W CONFLEX XL SMOOTH HIGH BUILD ACRYLIC		B50Z S	ERIES - OMI	FOR H.M. DOOR FRAMES
	COATING, CF11 SERIES		ι.		/ 3.0 -4.0 MLS DRY PER COAT) JAMEL HS, B54Z400 SERIES
3RD COAT:	S-W CONFLEX XL SMOOTH HIGH BUILD ACRYLIC COATING, CF11 SERIES (APPLY AS NEEDED FOR				JAMEL HS, B54Z400 SERIES PER COAT) (APPLY AS
	COMPLETE COVERAGE) PRODUCT IS PACKAGE SAFETY YELLOW; COLOR				PLETE COVERAGE)
	ACCEPTANCE SHOULD BE APPROVED BY TSC.			ER-CRYL HP	A SW1012 POWER GRAY
PIPE BOLLARDS AN	D COVERS 6" SCHEDULE 40 CONCRETE FILLE (SEE MANUFACTURER FOR BOLLA				
STOREFRONT FINIS	H CLEAR ANODIZED ALUMINUM				
STOREFRONT GLAZ	ING VESTIBULE EXTERIOR 1" TEMP. INSULATED GF INTERIOR 1/4" TEMP. CLEAR GLASS		TED GLASS		
INTERIOR FINIS					
	ETE, SCORED, SMOOTH, HIGH/LOW DENSITY) INISH - COLOR TO MATCH SW7005 PURE WHITE				PPLICATIONS MAY UTILIZE
1ST COAT: 2ND COAT:	S-W PREPRITE BLOCK FILLER B25W25 (75-125 SQ. FT./GAL @ 16 MILS WET; 8 MILS DRY) S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI- S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI- (4 MILS WET, 1.3 MILS DRY PER COAT)		-	SPRAYEI MUST B SHERWI	ROLLER OR AIRLESS R; <b>HOWEVER, ALL COATS</b> <b>E BACK-ROLLED.</b> SEE N WILLIAMS DATA SHEET TION RECOMMENDATIONS
RED ACCENT STRIP	E (IN RETAIL SALES AREA - 10'-3" TO BOTTOM OF STF	RIPE, 12"	' STRIPE)		
1ST COAT: 2ND COAT:	INISH - SW 4081 SAFETY RED S-W PROMAR 200 ZERO VOC INTERIOR LATEX PRIME (4 MILS. WET, 1.2 MILS DRY) S-W PROMAR 200 ZERO VOC INTERIOR LATEX SEMI-	GLOSS,	B31R02658		NOTE: CONTRACTOR TO ACCESS STANDARD CRITERIA PLANS FOR ALTERNATE PAINT
	S-W PROMAR 200 ZERO VOC INTERIOR LATEX SEMI- S DRYWALL AND INTERIOR DRESSING ROOM WALL	,	B31R02658 OUTER DRESSIN		SPECIFICATION BY PPG.
SEMI-GLOSS FI 1ST COAT:	(WALLS, GYPSUM BOARD, PLASTER BOARD, ETC INISH - COLOR TO MATCH SW7005 PURE WHITE S-W PROMAR 200 ZERO VOC INTERIOR LATEX PRIME B28W02600 (4 MILS WET, 1.3 MILS DRY PER COAT) S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-	.) ER,	1ST COAT: TSC TO PR	S-W PREPI INTERIOR (4 MILS WI	LLS RITE 200 ZERO VOC LATEX PRIMER, B28W02600 ET, 1.3 MILS DRY PER COAT) INSTALL WALLPAPER
	B31W04651 SERIES	,	EXPOSED COND		
INNER CORE AREAS		COAT)			RUST-OLEUM UNIVERSAL DE PAINT + PRIMER BROWN
	INISH - COLOR TO MATCH SW7036 ACCESSIBLE BEIG S-W PROMAR 200 ZERO VOC INTERIOR LATEX PRIME B28W02600 (4 MILS WET, 1.3 MILS DRY PER COAT)		EXPOSED COND GC TO PAIN		_ SALES AREA 'O MATCH WALL FINISH
2ND COAT:	S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI- B31W04651 SERIES	-GLOSS,			ERRED OR AS APPROVED
3RD COAT:	S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI- B31W04651 SERIES (4 MILS WET, 1.3 MILS DRY PER	COAT)		R SUPPLY CO	DMPANY
GLOSS FINISH	- COLOR TO MATCH SW1012 POWER GREY		COLOR TO MATO	CH SW1012 F	POWER GREY
	S-W KEM KROMIK UNIVERSAL METAL PRIMER, B50Z SERIES (6.0 - 8.0 MILS WET / 3.0 - 4.0 MILS DRY PER		COLOR TO MATO ROOM DOOR ON		SANDERLING @ DRESSING
2ND COAT:	S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31W04651 SERIES		1ST COAT: REMAINING		CTORY PRIMED CTORY FINISHED
3RD COAT:	S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31W04651 SERIES (4 MILS WET, 1.3 I	MIIS			OVIDED BY DH PACE
	DRY PER COAT)	L		S - OPTION	(HARDER FINISH AND BETTER
METAL DOOR FRAM GLOSS FINISH	- COLOR TO MATCH SW1012 POWER GREY COLOR TO MATCH SW7513 SANDERLING @ DRESS	SING	C	OLOR TO MA	GLOSS RETENTION) TCH SW1012 POWER GREY TCH SW7513 SANDERLING
	ROOM DOOR ONLY FACTORY PRIMED		-	DRESSING F CTORY PRIN	ROOM DOOR ONLY NED
2ND COAT:	S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31W04651 SERIES				ISTRIAL WATERBASED ALKYD AMEL B53W01051 SERIES
3RD COAT:	S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31W04651 SERIES (4 MILS WET, 1.3 I DRY PER COAT)	MILS	3RD COAT: S- UF	W PRO INDU RETHANE EN	ISTRIAL WATERBASED ALKYD AMEL B53W01051 SERIES .6 MILS DRY PER COAT)
VINYL PLANK FLOO	RING SWIFF-TRAIN COMPANY EART		S WOOD CLASSIC IN	I SENORA G	NC 9812 OR NORTH STAR
VINYL BASE	FLOORING SOMA IN RUSSET, 3 JOHNSONITE VINYL #40 BLACI				

GLOBAL INDUSTRIES PLASTIC LAMINATE FLOOR MOUNTED TOILET PARTITIONS TO BE FINISHED WITH WILSONART LAMINATE, 4857-60 SHADOW ZEPHYR OR EQUAL AS REQUIRED BY LOCAL CODE. FIBERGLASS REINFORCED PANEL (FRP) WAINSCOT TO 4' A.F.F. ON NON-MASONRY WALLS IN RESTROOMS AND WALLS ADJACENT TO THE WATER FOUNTAIN. SEE DETAILS A5.0 FOR MOP SINK CONDITION & DETAILS A5.1 FOR PET WASH WALL CONDITION. FRP BY GLASTEEL, GLASLINER FRP, COLOR: XA WHITE, FINISH: TEXTURED. LAY-IN CEILING & GRID (VESTIBULE) GRID STONE GYPSUM CEILING PANELS 1/2" X 2' X 4'

WILSONART 4857-60 SHADOW ZEPHYR AT EMPLOYEE LOUNGE COUNTERTOP PROVIDED BY TSC

LAY-IN CEILING & GRID (OFFICE CORE) ARMSTRONG DUNE 1776 2X4, WHITE, SQUARE LAYIN, OR EQUAL FLOOR IN VESTIBULE, SALES, RESTROOMS, CORRIDOR, MANAGER'S OFFICE, EMPLOYEE LOUNGE CONCRETE FLOORING SPECIFICATIONS, PROVIDE THE FOLLOWING: ANY FLOOR AREAS OVER 3" ROUND WILL BE PREPPED BY THE "GC".

 MECHANICALLY GROUND AND POLISHED FLOOR SURFACE TO A 400 GRIT RESIN DIAMOND FOLLOWED BY 800 GRIT DIAMOND PAD BURNISH FOR A MID LEVEL GLOSS. INCLUDED IN THIS PROCESS IS CONCRETE DENSIFICATION, JOINT/CRACK FILLING UP TO 1150 LF AND PATCHING OF HOLES SMALLER THAN 3" THAT POSE A TRIP HAZARD. PROCESS TO BE INSTALLED BY FLOORING

CONCRETE FLOORING SPECIFICATIONS, PROVIDE THE FOLLOWING: 1 CUT GRIND THEN SEALED WITH GUARD/ SEALER INSTALLED BY FLOORING SUBCONTRACTOR.

CONCRETE AND EPOXY FLOORING SPECIFICATIONS, PROVIDE THE FOLLOWING:

 DO NOT BROOM FINISH THIS AREA. PLACE AND FINISH CONCRETE AS SPECIFIED IN SECTION 3.04 "CONCRETE FINISHES AND TOLERANCES", PARAGRAPH A "GENERAL FINISHES". CURE USING "KUREZ DR VOX" OR "KUREZ DR 100" AT AN APPLICATION RATE OF

 JOINT FILLING: FILL ALL CONTROL JOINTS AS SPECIFIED IN SECTION 3.07 "INTERIOR CONCRETE JOINT FILLER", PARAGRAPH B. SURFACE PREPARATION: EPOXY FLOOR COATING SYSTEM IS DESIGNED FOR APPLICATION ON CONCRETE SUBSTRATES. NEWLY PLACED CONCRETE SURFACES SHOULD BE CURED FOR A MINIMUM OF 28 DAYS PRIOR TO COATING. CONCRETE SURFACES MUST BE STRUCTURALLY SOUND, FREE OF LOOSE OR DETERIORATED CONCRETE AND FREE OF DUST, DIRT, PAINT, EFFLORESCENCE, OIL AND OTHER CONTAMINANTS. MECHANICALLY ABRADE THE SURFACE TO ACHIEVE A SURFACE PROFILE EQUAL TO CSP 2-3 IN ACCORDANCE WITH ICRI GUIDELINE 310.2. PROPERLY CLEAN PROFILED AREA. THE pH OF THE SURFACE SHOULD BE CHECKED ACCORDING TO ASTM D 4262. FOLLOWING SURFACE PREPARATION, THE CLEANED SURFACE SHOULD HAVE A MINIMUM SURFACE-TENSILE STRENGTH OF 200 PSI WHEN TESTED WITH AN ELCOMETER OR SIMILAR PULL TESTER (ASTM D 4541). INITIAL COAT MIXING: PRE-MIX "INCRETE HIGH PERFORMANCE EPOXY" (GRAY) PART A AND PART B. THEN COMBINE 2 PARTS BY VOLUME OF PART A WITH ONE PART BY VOLUME OF PART B, AND THEN MIX THOROUGHLY USING A LOW-SPEED DRILL MOTOR AND A "JIFFY" TYPE MIXER. MIX ONLY THE AMOUNT OF MATERIAL THAT CAN BE APPLIED DURING THE POT LIFE. DO NOT AERATE

 INITIAL COAT APPLICATION: APPLY "INCRETE HIGH PERFORMANCE EPOXY" (GRAY) AT 120 SF/GALLON. SPREAD THE MIXED EPOXY WITH A NOTCHED SQUEEGEE WHILE WEARING SPIKED SHOES. START FROM ONE END OF THE FLOOR AND WORK BACKWARDS AND SIDEWAYS TRYING TO KEEP A WET-TO-WET EDGE. THE COATING SHOULD THEN BE ROLLED IN ONE DIRECTION USING A 3/8" NAP, SHED-RESISTANT ROLLER. MAKE SURE THE MATERIAL IS APPLIED AS QUICKLY AS POSSIBLE WITHOUT LEAVING PUDDLES. • PIGMENTED CHIP APPLICATION: BROADCAST UNTIL REFUSAL, "INCRETE GRANITE COAT CHIPS" (MICA) IN A HIGH ARCING MOTION INTO THE WET EPOXY. ALLOW TO CURE. ONCE DRY, VACUUM/SCRAPE OFF EXCESS FLAKES. ALLOW TO DRY.

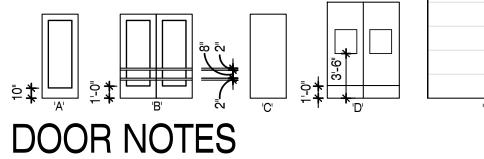
 GROUT COAT: APPLY "INCRETE HIGH PERFORMANCE EPOXY" (CLEAR) AT 120 SF/GALLON. ALLOW TO DRY. • WEAR COAT: APPLY A FINAL COAT OF "INCRETE POLYSEAL POLYASPARTIC" (CLEAR) AT 120 SF/GALLON. ALLOW TO DRY. • COVE BASE: IN ADDITION TO THE SEAMLESS INTEGRAL FLOOR, PROVIDE A 4" COVE BASE FROM THE FLOOR TO THE FRP WALL TRANSITION. COVE BASE SHALL CONSIST OF A MIXTURE OF "INCRETE HIGH PERFORMANCE EPOXY" AND FINELY GRADED, CLEAN DRY, TROWELABLE AGGREGATES, TROWELED TO THE PREVIOUSLY INSTALLED VERTICAL CEMENT BOARD SURFACE, TO A HEIGHT OF 4 INCHES. CREATE A COVED, SEAMLESS, INTEGRAL TRANSITION AT JOINT BETWEEN WALL AND FLOOR. BROADCAST UNTIL REFUSAL, "INCRETE GRANITE COAT CHIPS" (MICA) INTO THE WET EPOXY. FINISH COVE BASE DETAIL WITH THE GROUT COAT AND WEAR COAT AS SPECIFIED HEREIN. ONCE COMPLETED, THE FLOOR AND COVE BASE SHALL BE SEAMLESS IN FUNCTION AND

a. INSTALL CEMENT WALL BOARD SO THAT THE BOTTOM EDGE IS FLUSH WITH THE FLOOR AS SPECIFIED. b. INSTALL CEMENT WALL BOARD TAPE, SIMILAR TO GOLDBLATT PROFESSIONAL CEMENT BOARD TAPE, TO ALL JOINT OF CEMENT

C. INSTALL FIBER REINFORCED PANELS (FRP) AS REQUIRED. DO NOT APPLY ADHESIVE TO ANY AREAS CONTACTING THE 4" COVE BASE INSTALLATION. DO NOT APPLY WATER TO ANY OF THESE SURFACES PRIOR TO INSTALLATION OF THE EPOXY FLOOR OR COVE SYSTEM. d. INSTALL 4" COVE BASE DIRECTLY TO CEMENT BOARD. COVE BASE SHALL COME IN DIRECT CONTACT WITH THE BOTTOM EDGE OF THE FIBER REINFORCED PANELS SO THAT THE FLOOR AND COVE BASE SHALL BE SEAMLESS IN FUNCTION AND APPEARANCE.

# 

	DC	OR SC	HED	ULE				HA	\RDW#	ARE S	SCHEDULE	
1         2         4 × 1/2         1         0 </th <th></th> <th></th> <th></th> <th>MATERIAL</th> <th>FRAME</th> <th>HARDWARE SET</th> <th>REMARKS</th> <th></th> <th></th> <th></th> <th></th> <th>MANUFACTUF</th>				MATERIAL	FRAME	HARDWARE SET	REMARKS					MANUFACTUF
1         2         4 × 1/2         1         0 </td <td>1</td> <td>3'-6" X 7'-0"</td> <td>А</td> <td>STORE FRONT GLASS</td> <td>ALUM.</td> <td>1A</td> <td>SEE NOTES 10, 13 &amp; 14</td> <td>1A</td> <td>1, 5B</td> <td></td> <td></td> <td></td>	1	3'-6" X 7'-0"	А	STORE FRONT GLASS	ALUM.	1A	SEE NOTES 10, 13 & 14	1A	1, 5B			
	2	3'-6" X 7'-0"	А	STORE FRONT GLASS	ALUM.	1B	SEE NOTES 10, 13 & 14					
B         PM 4/2/VP         D         PM 2/2/VP         PM 2/2/VP </td <td>3</td> <td>NOT USED</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td colspan="2"></td> <td></td> <td></td>	3	NOT USED										
Image: Description         Image:	4	3'-0" X 5'-8"	Н		H. MTL.	4	SEE NOTE 21	1B	2	2 EA.		ILC
B         PRO-5-YX (2)         A         VIII         VIIII         VIIIII         VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	5A	PR 3'-0"X7'-0"	В	STORE FRONT GLASS	ALUM.	10	SEE NOTES 4, 10, 17 & 22					
ev         mscusse         p         4.4.4.10.488         PTL         2         HEROTES           8         347.57         0         80.00011         14.04.10.488         988.0015         14.04.10.40004         998.0016         15.0           11         347.57         0         80.00011         14.04.10.4         0         14.00011         14.04.10.0001         14.04.00014         14.00004         14	5B	PKG 9'-0" X 7'-8"	А	STORE FRONT GLASS	ALUM.	1A	SEE NOTES 10, 13, 14 & 22	10	54			
<ul> <li> <sup>1</sup> Or <sup></sup></li></ul>	6*	PR 3'-0"X8'-0"	D		MTL.	2	SEE NOTE 18				DRIP CAP 16A X 76 - A	
3         3	7	CASED OPENING					FURR DOWN TO 7'-10" A.F.F.				BALANCE OF HARDWARE BY DOOR SUPPLIER	
Image: The set of the set o	8	3'-0" X 7'-0"	С	S.C. WOOD	H. MTL.	8	SEE NOTE 5					
1         1         2         2         3         4         1         0         2         0	9	3'-0" X 7'-0"	С	S.C. WOOD	H. MTL.	8	SEE NOTE 5	1D	17			
1       3-97770       0       8.0402       6-4402       8-6402       6-4402       8-6402	10	3'-0" X 7'-0"	С	S.C. WOOD	H. MTL.	6	SEE NOTE 16					
13         10<	11	3'-0" X 7'-0"	С	S.C. WOOD	H. MTL.	7	SEE NOTE 16				· · · · · · · · · · · · · · · · · · ·	
Image       Image <th< td=""><td>12</td><td>3'-0" X 7'-0"</td><td>С</td><td>INSUL MTL.</td><td>INSUL. MTL</td><td>. 5</td><td>SEE NOTES 2, 3 &amp; 10</td><td>2</td><td>6, 13A, 13B</td><td></td><td>ALL HARDWARE BY DOOR SUPPLIER</td><td></td></th<>	12	3'-0" X 7'-0"	С	INSUL MTL.	INSUL. MTL	. 5	SEE NOTES 2, 3 & 10	2	6, 13A, 13B		ALL HARDWARE BY DOOR SUPPLIER	
Image:	13A	10'-0" X 10'-0"	E	INSUL MTL.	MTL.	2	SEE NOTES 1, 12 & 15	3	NOT USED			
In       Sex X-VP       0       S.X. Wood       H.M.IL       6       REF NOTE 20         IN       Sex X-VP       0       S.X. Wood       H.M.IL       To Sex Note 20       Note 11         IN       Sex X-VP       0       S.X. Wood       H.M.IL       7       Sex Note 20       Note 11         IN       Sex X-VP       0       SSX Wood       H.M.IL       7       Sex Note 20       Note 11         IN       Sex X-VP       0       SSX Wood       H.M.IL       To Sex Note 20       Note 11         IN       Sex X-VP       0       SSX Wood       H.M.IL       To Sex Note 20       Note 11         IN       Sex X-VP       0       SSX Wood       H.M.IL       IN       IN       IN       Note 11         IN       Sex X-VP       0       SSX Wood       H.M.IL       Sex X-VP       IN       Sex X-VP       IN       Note X-VP	13B	10'-0" X 10'-0"	Е	INSUL MTL.	MTL.	2	SEE NOTES 1, 12 & 15					
ID       OVAL AV       O       Nature IIII, INSUE MIL, 20       Set NOTES 2, 06.11         ID       OPACH       Set NOTES 2, 06.11       Set NOTES 2, 06.11         ID       OPACH       Set NOTES 2, 06.11       Set NOTES 2, 06.11       Set NOTES 2, 06.11       Set NOTES 2, 06.11         ID       OPACH       Set NOTES 2, 06.11       OPACH       Set NOTES 2, 06.11       Set NOTES 2, 06.11       Set NOTES 2, 06.11         ID       OPACH       Set NOTES 2, 06.11       OPACH       Set NOTES 2, 06.11       Set NOTES 2, 06.11       Set NoteS 2, 08.01       Set NoteS 2, 08.01       Note NoteS 2, 08.01       NoteS 2, 08.01       NoteS 2, 08.01       Note NoteS 2, 08.01       NoteS 2, 08.01	14	3'-0" X 7'-0"	G	S.C. WOOD	H. MTL.	6	SEE NOTE 20					
Image: Note of the state o	15	3'-0" X 7'-0"	С	INSUL MTL.	INSUL. MTL	. 5B	SEE NOTES 2, 10 & 11				SILENCER SR64-GRY	
17       3************************************	16	3'-0" X 7'-0"	С	S.C. WOOD	H. MTL.	7	SEE NOTE 16	4	4			
1       0       MRUL       MTL       SEE NOTE 23       5       12       3.4, MARDE DET (2004)       MCK         * FAME SUPPLED BY 18G, INSTALLED BY CONTRACTOR       UP of the supple of t	17	3'-0" X 7'-0"	F	STORE FRONT	ALUM.	1D	SEE NOTES 4, 10, 19 & 22					
PRAME SUPPLED BY TIDE, INSTALLED BY CONTRACTOR     PROVE SUPPLED BY TIDE, INSTALLED BY CONTRACTOR     PROVE SUPPLED BY TIDE, INSTALLED BY CONTRACTOR     PROVE SUPPLED     PROVES     PROVE SUPPLED     PROVES     PROVE	18	3'-0" X 3'-0"	С		MTL.		SEE NOTE 23	5	12	3 EA.	HINGES MPB79 4 1/2 X 4 1/2 NRP- 26D	МСК
Image: State of the s	* FR/	* FRAME SUPPLIED BY TSC. INSTALLED BY CONTRACTOR 10.5" 3'-0" 10.5"										
Let A CLOSER, PARALLEL ANS CONT AX DEX SUB-AGE     ANT MAT     ANT     AN												
<ul> <li>I the set of the set</li></ul>												
<ul> <li> <sup>1</sup> La constraint is don't and the second an</li></ul>												
<ul> <li>Stephen Protection Contraction Contraction Contraction State Provided Processing Provided Processing State Provided Processing Provided Processing State Provided Processing Provided Processing Procesing Processing Processing Processing Processing Processing Pro</li></ul>					╇╝╎└──┤							
W       T       B       C       C       F<       F<       F<       F<       F<       F<       F<       F<	= _		╡⇒							1 EA.	DRIP CAP 16A-A	NAT
DOOR NOTES         1       10 WIDE X 10 HIGH INSULATED SECTIONAL DOOR WELECTRIC OPERATOR, (2) RADIO REMOTES, TIMER, CHAIN KEEPER AND REVERSING SAFETY EDGE, OVERHICE BUTTON TO BE SUPPLIED BY OVERHEAD DOOR VENDOR AND INSTALLED BY GENERAL, CONTRACTORS ELECTRICIAN, COLOR TO SE FACTORY RINNERD WHTE; INFORMED RESISTING TO UNLIAD DOOR IN HIGH IMPACT ZONES.       11 EA.       POWERT FAILUSE AND SCI A X DS XSLM-689       FAL         1       EA.       POWERT FAILUSE AND COST AND SCI A X DS XSLM-689       FAL         1       EA.       POWERT FAILUSE AND COST AND SCI A X DS XSLM-689       FAL         1       EA.       HINGES CYLLIDDER 30107-1-260       ILC         1       EA.       HINGES CYLLIDDER 30107-1-260       ILC         1       EA.       HINGES CYLLIDDER 30107-1-260       ILC         1       EA.       HINGES CYLLIDDER 30107-1-260       NAT         1       EA.       HINGES CYLLIDDER 30107-1-260       NAT         300ANGET DE HOX/CED BY TO ALL DOAR BALL TO RECEIVEND BELK AND CASH REGISTER. 'BIG EVE WEWER IN DOOR.       1       EA.       HINGES SUPPT3 4 12 X 12 NP-200       NAT         1       EA.       HINGES PORTAL BYLE AND ADD THREEMEND.       NAT       EA.       HINGES SUPPT3 4 12 X 12 NP-200       NCK         1       EA.       HINGES MEDT3 4 X 12 X 12 NP-200       NCK       IEA.       HINGES NPPT3 4 12 X 12 NP-200       NCK	₽₽⊑	──」 ÷ ╋ └── ¦₿'	[	└──┘┊┽╄└	<u>∔</u>	'E'						
<ul> <li>10 WIDEX 10 HIGH INSULATED SECTIONAL DOOR WE LECTRIC OPERATOR, (2) RADIO PEMOTES, TIMER, CHAIN KEEPER AND REVERSING SAFETY EDGE. OVERIDE BUTTON TO BE SUPPLIED BY OVERHEAD DOOR VENDOR AND INSTALLED BY GENERAL CONTRACTORS ELECTRICIAN. OCIOR TO BE SACTORY FINISHED WITE; IMPACT RESISTANT COLLING DOOR IN HIGH IMPACT ZONES.</li> <li>10 DOOR AFA &amp; AT TO TO HAVE CALL RINGERS TO BE LOCATED &amp; RECEIVING DESK AND CASH REGISTER. "BIG EYE' VEWER IN DOOR.</li> <li>10 DOOR AFA &amp; AT TO TO HAVE CALL RINGERS TO BE LOCATED &amp; RECEIVING DESK AND CASH REGISTER. "BIG EYE' VEWER IN DOOR.</li> <li>10 DOOR AFA &amp; AT TO TO HAVE CALL RINGERS TO BE LOCATED &amp; RECEIVING DESK AND CASH REGISTER. "BIG EYE' VEWER IN DOOR.</li> <li>10 DOOR AFA &amp; AT TO TO HAVE CALL RINGERS TO BE LOCATED &amp; RECEIVING DESK AND CASH REGISTER. "BIG EYE' VEWER IN DOOR.</li> <li>10 DOOR AFA &amp; AT TO DAVIZ CALL RINGERS TO BE LOCATED &amp; RECEIVING DESK AND CASH REGISTER. "BIG EYE' VEWER IN DOOR.</li> <li>10 DOOR AFA &amp; ATTO DOOR BELLI RINGERS TO BE LOCATED &amp; RECEIVING DESK AND CASH REGISTER. "BIG EYE' VEWER IN DOOR.</li> <li>10 DOOR AFA &amp; ATTO DOOR BELLI RINGERS TO BE LOCATED &amp; RECEIVING DESK AND CASH REGISTER. "BIG EYE' VEWER IN DOOR.</li> <li>10 DOOR AFA &amp; ATTO DONE DE PROVIDED REMPONZED AND THRESHOLD.</li> <li>11 AL DOOR STO HAVE DA AND THRESHOLD.</li> <li>12 AL DOOR STO HAVE DA AND THRE HAVE AND THRE HEY AND KEY INDIVIDUALLY AS DIRECTED TO OF STORE. KEY AND TO RESIDENCE INTO DO CONSTITUTION CORES OF ALL HARDWARE PRIOR TO TURNOVER OF STORE. KEY AND TO RESIDENCE MANAGER.</li> <li>12 AL DOOR STORE MANAGER.</li> <li>13 AL DOOR STORE MANAGER. HAVE MASSTER KEY AND LOOK.</li> <li>14 AL DOOR AND STORE MANAGER.</li> <li>15 AL DOOR TO INSTALLE DOOR AND</li></ul>			тгο			_		5B	15			
1.       10 WIDE X 10 Hidel HISULATED SECTIONAL DOOR WILECTRIC OPERATOR, (2) RADIO REMOTES, TIMER, CHAIN KEEPER AND REVERSING       FAL         SAFET VEGE.       VELOSED, VERRING ENUTTO YO ES USUPLICE DY OVERHAD DOOR AND INSTALLED BY GENERAL CONTRACTORS ELECTRICIAN.       1 EA.       UCOSER, PARALLEL, AFM S031A X DG X SULM-689       NAT         SUBJORDE.       KEY OUTSOR       1 EA.       VELOSED, VERRING ENTRICIANAL DOOR VILLE AFM S031A X DG X SULM-689       NAT         3.       DOOR 412 TO HAVE DOOR BELL RINGERS TO BE UCOLFID @ RECEIVING DESK AND CASH REGISTER. 'BIG EYE VIEWER IN DOOR.       1 EA.       HINGES MPT9 4 12 X 412 NIP- 26D       MCK         4.       DOOR 412 TO HAVE DOOR BELL RINGERS TO BE UCOLFID @ RECEIVING DESK AND CASH REGISTER. 'BIG EYE VIEWER IN DOOR.       6       10, 14       3 EA.       HINGES MPT9 4 12 X 412 NIP- 26D       MCK         5.       SIGNAGET DE EPONDED BY TSC.       1 EA.       PULL PLATE 2002 OX 41 X 16 US 32D       VIE         6.       10, 14       3 EA.       HINGES MPT9 4 12 X 412 NIP- 26D       MCK         7.       ALL DOORS TO HAVE EAD APPROVED HAMADRER.       1 EA.       CLOSERT SKEWPA X SUM 4890       FAL         8.       BENERAL CONTRACTOR TO CHANKED OUT CONSTRUCTION CORES OF ALL HARDWARE PRIOR TO TURNOVER OF STORE. KEY AND TURNOVER       8 EA.       SUENCERS SR64 GRY       WE         9.       ALL LOCKSETS KEYED TO ESTABLISH TRIS CRANADKASTER KEY, FURINSIE LEVER SER LOCK.			IE2									
SAFETY EDGE. OVERRIDE BUTTON TO BE SUPPLIED BY OVERHEAD DOOR VENDOR AND INSTALLED BY GENERAL CONTRACTORS ELECTRICIAN. COLOR TO BE FACTORY MINISHED WHITE; IMPACT RESISTANT COLING DOOR IN HIGH IMPACT ZONES. DOOR 450 A 617 TO HAVE 47 ALUM. HEAD AND THRESHOLD. SIGNAGE TO BE LOCATE 0 RECEIVING DESK AND CASH REGISTER. 'BIG EYE' VIEWER IN DOOR. DOOR 450 A 617 TO HAVE 47 ALUM. HEAD AND THRESHOLD. SIGNAGE TO BE PROVIDED BY TSC. ALL DOOR SECURE A MINIMUM 10' BOTTOM RAIL TO RECEIVING DESK AND CASH REGISTER. 'BIG EYE' VIEWER IN DOOR. DOOR 450 A 617 TO HAVE 47 ALUM. HEAD AND THRESHOLD. SIGNAGE TO BE PROVIDED BY TSC. ALL DOOR SECURE A MINIMUM 10' BOTTOM RAIL TO RECEIVING VIEWERS. ALL DOOR SECURE A MINIMUM 10' BOTTOM RAIL TO RECEIVING WARE FROM TO TURNOVER OF STORE. KEY AND TURNOVER DOOLMENT TO BE SIGNED WARE CONTRACTOR TO CHANGE OUT CONSTRUCTION CORES OF ALL HARDWARE PRIOR TO TURNOVER OF STORE. KEY AND TURNOVER DOOLMENT TO BE SIGNED WARE AND CASH DESC AND CASH REGISTER. 'BIG EYE' VIEWER IN DOOR. DOOLMENT TO BE SIGNED WARE CONTRACTOR TO CHANGE OUT CONSTRUCTION CORES OF ALL HARDWARE PRIOR TO TURNOVER OF STORE. KEY AND TURNOVER DOOLMENT TO BE SIGNED WARE CONTRACTOR TO CHANGE OUT CONSTRUCTION CORES OF ALL HARDWARE PRIOR TO TURNOVER OF STORE. KEY AND TURNOVER DOOLMENT TO BE SIGNED WARE CONTRACTOR TO STABLENT TO BESINGED TO TORNOVER OF STORE. KEY AND TURNOVER DOOLMENT TO BE SIGNED WARE CONTRACTOR TO CHANGE OF CONTRACTOR DEVICED TO ALL LOCKETS KEYD TO ESTABLENT TO BESINGED STRILL BUTTOR TO RESULT STATUS AND AND THE STORE AND ANGET OF PRINK BY ADDENT AND THE STATUS AND AND THE STORE AND ANGET OF THE PRINK BY ADDENT AND THE STATUS AND AND THE STORE AND ANGET OF THE PRINK BY ADDENT AND THE STATUS AND AND THE STATUS AND AND THE STATUS AND AND THE STATUS AND AND AND THE STATUS AND AND AND THE STATUS AND AND AND TO PRINK BY A STATUS AND AND AND THE STATUS AND AND	1 10											
COLOR TO BE FACTORY FINISHED WHITE; IMPACT RESISTANT COLLING DOOR IN HIGH IMPACT ZONES.       1 EA.       WEATHER STRPING 160/- MILL       NAT         3. DOOR #12 TO HAVE DOOR BELL INNGERS TO BE LOCATED @ RECEIVING DESK AND CASH REGISTER. 'BIG EYE' VIEWER IN DOOR.       1 EA.       URL TO PAY 64.A.       NAT         4. DOOR #3 at #17 TO HAVE DOOR BELL INNGERS TO BE LOCATED @ RECEIVING DESK AND CASH REGISTER. 'BIG EYE' VIEWER IN DOOR.       1 EA.       URL TO PAY 64.A.       NAT         5. SIGNAGE TO BE PROVIDED BY TSC.       1 EA.       PUGH PLATE 8000 / 4 10 / 2 4 12 / 2 HAVE 10 / 2											,	
1.     DOOR #12 TO HAVE DOOR BELL INNOERS TO BE LOCATED @ RECEIVING DESK AND CASH REGISTER. 'BIG EYE' VIEWER IN DOOR.     DOOR #56.8 #17 TO HAVE # ALUM, HEAD AND THRESHOLD.     Not       2.     DOOR #56.8 #17 TO HAVE # ALUM, HEAD AND THRESHOLD.     BIG AND THRESHOLD.     Not       3.     BOOR #56.8 #17 TO HAVE # ALUM, HEAD AND THRESHOLD.     Not       3.     SIGNAGE TO BE PROVIDED BY TSC.     HINGES MP879 4 1/2 X 4 1/2 NIP-26D     Not       4.     NOTE THAT DOORS REQUIRE A MINIMUM 10' BOTTOM RAIL TO RECEIVE KICK PLATES.     I.EA.     PULL PLATE 8200 5 X 4 1/6 - US 32D     IVE       3.     ALL DOORS TO AVE AND APPROVED HARDWARE.     I.EA.     PULL PLATE 8200 5 X 4 1/6 - US 32D     IVE       4.     ALL LOCKSETS KEYED TO CONSORT OLOTADO CORES OF ALL HARDWARE PRIOR TO TURNOVER OF STORE. KEY AND TURNOVER     IEA.     CLOSER SCB1A X RW/PA X 5LIM-689     FAL       9.     ALL LOCKSETS KEYED TO ESTABLISH TSC GRANDMASTER KEY. ESTABLISH A NEW MASTER KEY AND KEY INDIVIDUALLY AS DIRECTED TO     T     11, 16     3 EA.     HINGES MP879 4 1/2 X 4 1/2 NIP-26D     MOCK       9.     ALL LOCKSETS KEYED TO ESTABLISH TS CORANDASTER KEY. ESTABLISH A NEW MASTER KEY AND KEY'N EPRING.     NCK     IEA.     CLOSER SCB1A X RW/PA X 1/3 X 4 1/2 NIP-26D     MOCK       9.     ALL LOCKSETS KEYED TO ESTABLISH TO ESTORMANDER     NCK     IEA.     HINGES MP879 4 1/2 X 4 1/2 NIP-26D     MOCK       10.     CONTRACTOR TO INSTALL CONTANT HEY MORE X REY, FURNISH & KEY	CO	LOR TO BE FACTORY										
4. DOOR #54 & #17 TO HAVE 4' ALUM. HEAD AND THRESHOLD.       6       10, 14       3 EA.       HINGES MEP32 4' 12 X 4' 12 MP-26D       MCK         6. SIGNAGE TO BE PROVIDED BY TSC.       1 EA.       PUSL PLATE 8200 2' X X 16 - US32D       VE         6. NOTE THAT DOORS REQUIRE A MINIMUM 10' BOTTOM RAIL TO RECEIVE KICK PLATES.       1 EA.       PUSL PLATE 8200 2' X X 16 - US32D       VE         7. ALL DOORS TO OHAVE 3DA APPROVED HARDWARE.       8       NOTE THAT DOORS REQUIRE A MINIMUM 10' BOTTOM RAIL TO RECEIVE KICK PLATES.       VE         8. GENERAL CONTRACTOR TO OHAVE 3DA APPROVED HARDWARE.       8       NULL STOP WEAD APPROVED HARDWARE.       VE         9. ALL COCKSETS KEYED TO OFANGE BANAGER.       VE       VE       3 EA.       HINGES MEP37 4' 12 X 4' 12 MP-26D       MCK         0. DOOR #12 KEYED SEPARATELY.       VENDER SELEST KEYED TO TO STABLISH TO SERVALE TREE KEY. FURNISH 2 KEYS PER LOCK.       3 EA.       HINGES MEP37 4' 12 X 4' 12 MP-26D       MCK         1. ELCOTRICIAN RESPONSIBLE FOR MAKING FINAL CONNECTION BETWEEN SECURITY VENDOR WORK AND DOOR WINING.       3 EA.       HINGES MEP37 4' 12 X 4' 12 MP-26D       MCK         1. ELCOTRICIAN RESPONSIBLE FOR MAKING FINAL CONNECTION BETWEEN SECURITY VENDOR WORK AND DOOR WINING.       1 EA.       CONTRACTOR TO INSTALL PLASTIC AR WARA SUMMES FINAL CONNECTION BETWEEN SECURITY VENDOR WORK AND DOOR WINING.       1 EA.       VE       3 EA.       HINGES MEP37 4' 12 X 4' 12 MP-26D       MCK <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1 EA.</td><td>DRIP CAP 16A-A</td><td>NAT</td></tr<>										1 EA.	DRIP CAP 16A-A	NAT
3. Sinvalue Province Province Aminimum 10° BOTTOM RAIL TO RECEIVE KICK PLATES.       1 EA.       PULL PLATE 8032-0.2X 1/8 - US 32D       IVE         7. ALL DOORS TO HAVE ADA APPROVED HARDWARE.       1 EA.       OLOSE STO SIA X SUIM-689       FAL         8. GENERAL CONTRACTOR TO CHANCE OUT CONSTRUCTION CORES OF ALL HARDWARE PRIOR TO TURNOVER OF STORE. KEY AND TURNOVER       1 EA.       OLOSE STO SIA X SUIM-689       FAL         9. ALL LOCKSETS KEYED TO ESTABLISH TSC GRANDMASTER KEY. ESTABLISH A NEW MASTER KEY AND KEY INDIVIDUALLY AS DIRECTED TO       7       11, 16       3 EA.       HINGES MBR3 94 12, X 4 12, NRP- 26D       MCK         0. DOOR #1, #2, #5A, #5B, #15 & KEYED TO ESTABLISH CONTRACTOR TO RONNECTION ESTIMETIVENES SECURITY VENDOR WORK AND DOOR WIRING.       1 EA.       CLOSER MANDASTER KEY, AND KEY INDIVIDUALLY AS DIRECTED TO       7       11, 16       3 EA.       HINGES MBR3 94 12, X 4 12, NRP- 26D       MCK         10. DOOR #1, #2, #5A, #5B, #15 & KEYED TO INSTALL PLASTIC AIR CURTAIN WITH 50% PANEL OVERLAP @ NEW MASONRY OPENING INSIDE NEW DOOR, AIR CURTAIN       1 EA.       CLOSERT ST11 X D X 23981137 X 5164 X 1 3/4-626       FAL         11. ELSCTICIAN ESTORDHOLE AND INSTALL PLASTIC AIR CURTAIN WITH 50% PANEL OVERLAP @ NEW MASONRY OPENING INSIDE NEW DOOR, AIR CURTAIN       1 EA.       CLOSERT ST11 X D X 23981137 X 5164 X 1 3/4 -626       FAL         12. CONTRACTOR TO RONDE AND INSTALL PLASTIC AIR CURTAIN WITH 50% PANEL OVERLAP @ NEW MASONRY OPENING INSIDE NEW DOOR, AIR CURTAIN       1 EA.       PRIVACY LOCKSET T311 X D X 23981137 X 516					-	CEIVING DESK AND CA	SH REGISTER. BIG ETE VIEWER IN DOOR.	6	10, 14			
b.       NOTE THAT DOORS TO HAVE ADA APPROVED HANDWARE.       I EA.       CLOSER SC81A X RW/PA X SLIM-689       FAL         8.       GENERAL CONTRACTOR TO CHANGE OUT CONSTRUCTION CORES OF ALL HARDWARE.       I EA.       CLOSER SC81A X RW/PA X SLIM-689       IVE         9.       ALL DOORS TO HAVE ADA APPROVED HARDWARE.       I EA.       CLOSER SC81A X RW/PA X SLIM-689       IVE         9.       ALL LOCKSTS KEYED TO ESTABLISH TSC GRANDMASTER KEY. ESTABLISH A NEW MASTER KEY AND KEY INDIVIDUALLY AS DIRECTED TO       7       11.16       3 EA.       HINGES MPB79 4 1/2 X 4 1/2 NRP-26D       MCK         0.       DOOR H1, 42, 45A, 47K EVED ALKE. NEVED SEPARATER KEY. FURNISH 2 KEYS PER LOCK.       7       11.16       3 EA.       HINGES MPB79 4 1/2 X 4 1/2 NRP-26D       MCK         10.       DOOR H1, 42, 45A, 47K EVED ALKE. ODOR H2 KEYED SEPARATERY.       FAL       CLOSER SC81A X RW/PA X SLIM-689 (DOOR 11 ONLY)       FAL         11.       ELECTRICIAN RESPONSIBLE FOR MAKING FINAL CONNECTION BETWEEN SECURITY VENDOR WORK AND DOOR WIRING.       1 EA.       CLOSER SC81A X RW/PA X SLIM-689 (DOOR 11 ONLY)       FAL         12.       CONTRACTOR TO PROVIDE AND INSTALL PLASTIC AR CURTAIN WITH 50% PANEL OVERLAP @ NEW MASONRY OPENING INSIDE NEW DOOR. AIR CURTAIN       3 EA.       HINGES MPB79 4 1/2 X 4 1/2 NRP-26D       MCK         13.       CONTRACTOR TO PROVIDE AND INSTALL DOOR SWEEPS.       I EA.       VALL STOP WS407-COV-US32D      IVE												
8.       GENERAL CONTRACTOR TO CHANGE OUT CONSTRUCTION CORES OF ALL HARDWARE PRIOR TO TURNOVER OF STORE. KEY AND TURNOVER       1 EA.       WALL STOP W\$407-CCV-US32D       WE         9.       ALL LOCKSETS KEYED TO ESTABLISH TSC GRANDMASTER KEY. ESTABLISH A NEW MASTER KEY AND KEY INDIVIDUALLY AS DIRECTED TO       3 EA.       SILENCERS SR64- GRY       WE         10.       DOOR #1, #2, #5A, #5B, #15 & #17 KEYED ALIKE. DOOR #12 KEYED SEPARATELY.       1 EA.       WALL STOP W\$407-CCV-US32D       MCK         11.       LECETRICIAN RESPONSIBLE FOR MAKING FINAL CONNECTION BETWEEN SECURITY VENDOR WORK AND DOOR WIRING.       1 EA.       OFFICIE LOCKSET T311 X D X 23981137 X 5164 X 1 3/4-626       FAL         12.       CONTRACTOR TO INSTALL PLASTIC AIR CURTAIN WITH 50% PANEL OVERILAP @ NEW MASONRY OPENING INSIDE NEW DOOR. AIR CURTAIN       3 EA.       SILENCERS SR64- GRY       WE         13.       CONTRACTOR TO PROVIDE AND INSTALL DAST CAR CAGE. INCLUDES ALL OVERHEAD DOOR SWEPS.       1 EA.       WALL STOP W\$407-CCV-US32D       WE         14.       CONTRACTOR TO INSTALL PLASTIC AIR CURTAIN WITH 50% PANEL OVERILAP & 0 COR MAINUG FINAL CONNECTION BETWEEN SECURITY VENDOR WORK AND DOOR WIRING.       1 EA.       WALL STOP W\$407-CCV-US32D       WE         12.       CONTRACTOR TO PROVIDE AND INSTALL PLASTIC AIR CURTAIN WITH 50% PANEL OVERLAP @ NEW MASONRY OPENING INSIDE NEW DOOR. AIR CURTAIN       3 EA.       HINGES MPB79 4 1/2 X 4 1/2 NRP-26D       MCK         13.       CONTRACTOR TO PROVIDE AND INSTALL			•		M RAIL TO RE	ECEIVE KICK PLATES.						
DOUDMENT TO BE SIGNED BY G.C. AND STORE MANAGER.         9. ALL COXESTS KEYED TO ESTABLISH TS GRANDMASTER KEY. ESTABLISH A NEW MASTER KEY AND KEY INDIVIDUALLY AS DIRECTED TO OPERATE ALL CYLINDERS & LOCK SETS. FURNISH (4) COPIES OF THE MASTER KEY, FURNISH 2 KEYS PER LOCK.       1       1       1       1       1       2       0<					JCTION CORE	ES OF ALL HARDWARE	PRIOR TO TURNOVER OF STORE. KEY AND TURNOVER					
OPERATE ALL CYLINDERS & LOCK SETS. FURNISH (4) COPIES OF THE MASTER KEY, FURNISH 2 KEYS PER LOCK.       1 EA.       OFFICE LOCKSET T511 X D X 23981137 X 5164 X 1 3/4-626       FAL         10. DOOR #1, #2, #5A, #5B, #15 & #17 KEYED ALIKE. DOOR #12 KEYED SEPARATELY.       1 EA.       CLOSER SC31A X RW/PA X SLIM-689 (DOOR 11 ONLY)       FAL         11. ELECTRICIAN RESPONSIBLE FOR MAKING FINAL CONNECTION BETWEEN SECURITY VENDOR WORK AND DOOR WIRING.       1 EA.       CLOSER SC31A X RW/PA X SLIM-689 (DOOR 11 ONLY)       FAL         12. CONTRACTOR TO INSTALL PLASTIC AIR CURTAIN WITH 50% PANEL OVERHEAD DOORS IN RETROFT STORES.       1 EA.       SLENCERS SR64- GRY       IVE         13. CONTRACTOR TO PROVIDE AND INSTALL DOOR MANUFACTURER.       1 EA.       CLOSER SC31A X RW/PA X SLIM-689       FAL         15. THE CHANNELS THAT THRESHOLD PROVIDED BY DOOR MANUFACTURER.       1 EA.       CLOSER SC31A X RW/PA X SLIM-689       FAL         15. THE CHANNELS THAT MAKE UP THE JAMBS AND HEAD FOR THE ROLLING SERVICE DOOR AND ITS ATTACHMENT POINTS SHOULD BE FLUSH       1 EA.       CLOSER SC31A X RW/PA X SLIM-689       FAL         16. PROVIDE AND INSTALL EVENDS ABOVE THE OPENING FOR A MINIMUM OF 30' FOR ATTACHMENT POINTS. STRUCTURAL SURFACE IN       1 EA.       SLENCERS SR64-GRY       IVE         11. EA.       SUBLENCERS SR64-GRY       1 EA.       SLENCERS SR64-GRY       IVE         11. INFUT THE JAMBS THAT EXERNON FOR A MINIMUM OF 30' FOR ATTACHMENT POINTS. STRUCTURAL SURFACE IN       3 EA.       SILENCERS												
10.       DOOR #1, #2, #5A, #5B, #17 KEYED ALIKE. DOOR #12 KEYED SEPARATELY.       I EA.       CLOSER SC81A X RW/PA X SLIM-689 (DOOR 11 ONLY)       FAL         11.       ELECTRICIAN RESPONSIBLE FOR MAKING FINAL CONNECTION BETWEEN SECURITY VENDOR WORK AND DOOR WIRING.       I EA.       CLOSER SC81A X RW/PA X SLIM-689 (DOOR 11 ONLY)       FAL         12.       CONTRACTOR TO INSTALL PLASTIC AIR CURTAIN WITH 50% PANEL OVERLEAD POORS IN RETROFIT STORES.       I EA.       CLOSER SC81A X RW/PA X SLIM-689 (DOOR 11 ONLY)       FAL         13.       CONTRACTOR TO PROVIDE AND INSTALL DOOR PACKAGE.       I EA.       CLOSER SC81A X RW/PA X SLIM-689 (DOOR 11 ONLY)       FAL         14.       CLOSER SC81A X RW/PA X SLIM-689 (DOOR 11 ONLY)       FAL       IVE       IVE         15.       THE ORANDE AND INSTALL DOOR SWEEPS.       I EA.       PRIVACY LOCKSET T301S X D 23931137 X 5164 X 1 3/4 -626       FAL         15.       THE CHANNELS THAT MAKE UP THE JAMBS AND HEAD FOR THE ROLLING OPENING. PROVIDE A STRUCTURAL SURFACE IN       I EA.       CLOSER SC81A X RW/PA X SLIM-689       FAL         15.       THE CHANNELS THAT MAKE UP THE JAMBS AND HEAD FOR THE INTERIOR OPENING. PROVIDE A STRUCTURAL SURFACE IN       I EA.       SILENCERS SR64-GRY       IVE         16.       PROVIDE AND INSTALL SA SWELL AS ABOVE THE INTERIOR OPENING. PROVIDE A STRUCTURAL SURFACE TO BE       I EA.       CLOSER SC81A X RW/PA X SLIM-689 (DOOR -4000 COC-V-US32D)       IVE         16								7	11, 16			
112. CONTRACTOR TO INSTALL PLASTIC AIR CURTAIN WITH 50% PANEL OVERIAP @ NEW MASONRY OPENING INSIDE NEW DOOR. AIR CURTAIN       3 EA.       SILENCERS SR64- GRY       VE         12. CONTRACTOR TO INSTALL PLASTIC AIR CURTAIN WITH 50% PANEL OVERIAP @ NEW MASONRY OPENING INSIDE NEW DOOR. AIR CURTAIN       3 EA.       HINGES MPB79 4 1/2 X 4 1/2 NRP- 26D       MCK         13. CONTRACTOR TO PROVIDE AND INSTALL DOOR SWEEPS.       1 EA.       PRIVACY LOCKSET T301S X D 23981137 X 5164 X 1 3/4 -626       FAL         14. DOORS TO HAVE FLAT THRESHOLD PROVIDED BY DOOR MANUFACTURER.       1 EA.       CLOSER SC81A X RW/PA X SLIM-689       FAL         15. THE CHANNELS THAT MAKE UP THE JAMBS AND HEAD FOR THE ROLLING SERVICE DOOR AND ITS ATTACHMENT POINTS SHOULD BE FLUSH       1 EA.       CLOSER SC81A X RW/PA X SLIM-689       FAL         10. INSTALL "EMPLOYEES ONLY" SIGN WHELE OVENING FOR A MINIMUM OF 30" FOR ATTACHMENT POINTS. STRUCTURAL SURFACE IN       3 EA.       HINGES PROV-CV- US32D       IVE         16. PROVIDE AND INSTALL "EMPLOYEES ONLY" SIGN WHERE INDICATED.       1 EA.       ACCESS PANEL BXTM-36X36-C       BAB         17. W. 2 EACH CRASH RAILS ON INSIDE OF EACH DOOR.       1 EA.       DUMMY CYLINDER 7160DC-26D       ILC         18. 72' X 96', 72' X 84' OR 36' X 96' OPENINGS TO BE PROVIDED AS: P11PLUS, WITH 10' X 30' ADA COMPLIANT WINDOWS, 18' TALL BUMPERS,       1 EA.       CYLINDER ORE 10C7A2 (GREEN CONSTRUCTION CORE)       ILC         18. 72' X 96', 72' X 84' OR 36' X 96' OPENINGS TO BE PROVIDED AS: P11PLUS, WITH 10' X				•	,		INISITZ RETS FER LOOK.					
INCLUDED WITH OVERHEAD DOOR VENDOR PACKAGE. INCLUDES ALL OVERHEAD DOORS IN RETROFIT STORES.       8       8, 9       3 EA.       HINGES MPB79 4 1/2 X 4 1/2 NRP- 26D       MCK         13.       CONTRACTOR TO PROVIDE AND INSTALL DOOR SWEEPS.       1 EA.       PRIVACY LOCKSET T301S X D 23981137 X 5164 X 1 3/4 -626       FAL         14.       DOORS TO HAVE FLAT THRESHOLD PROVIDED BY DOOR MANUFACTURER.       1 EA.       CLOSER SC81A X RW/PA X SLIM-689       FAL         15.       THE CHANNELS THAT MAKE UP THE JAMBS AND HEAD FOR THE ROLLING SERVICE DOOR AND ITS ATTACHMENT POINTS SHOULD BE FLUSH       1 EA.       CLOSER SC81A X RW/PA X SLIM-689       FAL         100 SMOOTH WITH THE SURROUNDING INTERIOR WALLS AS WELL AS ABOVE THE INTERIOR OPENING. PROVIDE A STRUCTURAL SURFACE IN       1 EA.       SILENCERS SR64-GRY       IVE         11NE WITH THE JAMBS THAT EXTENDS ABOVE THE OPENING FOR A MINIMUM OF 30° FOR ATTACHMENT POINTS. STRUCTURAL SURFACE TO BE       GABLE FACADE       1 EA.       ACCESS PANEL BXTM-36X36-C       BAB         16.       PROVIDE AND INSTALL 'EMPLOYEES ONLY 'SIGN WHERE INDICATED.       ILC       ILC       ILC       ILC       ILC         17.       W/2 EACH CRASH RAILS ON INSIDE OF EACH DOOR.       INCH 10' X 30' ADA COMPLIANT WINDOWS, 18' TALL BUMPERS,       IEA.       DUMMY CYLINDER 7160DC-26D       ILC         18.       72'' X 96'', 72'' X 84'' OR 36'' X 96'' OPENINGS TO BE PROVIDED AS: P11PLUS, WITH 10'' X 30' ADA COMPLIANT WINDOWS, 18' TALL BUMPER												
<ul> <li>13. CONTRACTOR TO PROVIDE AND INSTALL DOOR SWEEPS.</li> <li>14. DOORS TO HAVE FLAT THRESHOLD PROVIDED BY DOOR MANUFACTURER.</li> <li>15. THE CHANNELS THAT MAKE UP THE JAMBS AND HEAD FOR THE ROLLING SERVICE DOOR AND ITS ATTACHMENT POINTS SHOULD BE FLUSH AND SMOOTH WITH THE SURROUNDING INTERIOR WALLS AS WELL AS ABOVE THE INTERIOR OPENING. PROVIDE A STRUCTURAL SURFACE IN LINE WITH THE JAMBS THAT EXTENDS ABOVE THE OPENING FOR A MINIMUM OF 30° FOR ATTACHMENT POINTS. STRUCTURAL SURFACE TO BE CAPABLE OF WITHSTANDING 1850 LB. POINT FORCE IN EITHER TENSION, COMPRESSION OR SHEAR.</li> <li>16. PROVIDE AND INSTALL "EMPLOYEES ONLY" SIGN WHERE INDICATED.</li> <li>17. W/ 2 EACH CRASH RAILS ON INSIDE OF EACH DOOR.</li> <li>18. 72" X 96", 72" X 84" OR 36" X 96" OPENINGS TO BE PROVIDED AS: P11PLUS, WITH 10" X 30" ADA COMPLIANT WINDOWS, 18" TALL BUMPERS,</li> </ul>						-						
14. DOORS TO HAVE FLAT THRESHOLD PROVIDED BY DOOR MANUFACTURER.       1 EA.       CLOSER SC81A X RW/PA X SLIM-689       FAL         15. THE CHANNELS THAT MAKE UP THE JAMBS AND HEAD FOR THE ROLLING SERVICE DOOR AND ITS ATTACHMENT POINTS SHOULD BE FLUSH AND SMOOTH WITH THE SURROUNDING INTERIOR WALLS AS WELL AS ABOVE THE INTERIOR OPENING. PROVIDE A STRUCTURAL SURFACE IN LINE WITH THE JAMBS THAT EXTENDS ABOVE THE OPENING FOR A MINIMUM OF 30° FOR ATTACHMENT POINTS. STRUCTURAL SURFACE TO BE CAPABLE OF WITHSTANDING 1850 LB. POINT FORCE IN EITHER TENSION, COMPRESSION OR SHEAR.       1 EA.       ACCESS PANEL BXTM-36X36-C       BAB         16. PROVIDE AND INSTALL "EMPLOYEES ONLY" SIGN WHERE INDICATED.       1 EA.       DUMMY CYLINDER 7160DC-26D       ILC         17. W/ 2 EACH CRASH RAILS ON INSIDE OF EACH DOOR.       1 EA.       CYLINDER 7700 ST 0 BE PROVIDED AS: P11PLUS, WITH 10" X 30" ADA COMPLIANT WINDOWS, 18" TALL BUMPERS,       1 EA.       BALANCE OF HARDWARE BY DOOR SUPPLIER       ILC						5 ALL OVERHEAD DOO	RS IN RETROFTI STORES.	8	8, 9			
AND SMOOTH WITH THE SURROUNDING INTERIOR WALLS AS WELL AS ABOVE THE INTERIOR OPENING. PROVIDE A STRUCTURAL SURFACE IN LINE WITH THE JAMBS THAT EXTENDS ABOVE THE OPENING FOR A MINIMUM OF 30° FOR ATTACHMENT POINTS. STRUCTURAL SURFACE TO BE CAPABLE OF WITHSTANDING 1850 LB. POINT FORCE IN EITHER TENSION, COMPRESSION OR SHEAR. 16. PROVIDE AND INSTALL "EMPLOYEES ONLY" SIGN WHERE INDICATED. 17. W/2 EACH CRASH RAILS ON INSIDE OF EACH DOOR. 18. 72° X 96°, 72° X 84° OR 36° X 96° OPENINGS TO BE PROVIDED AS: P11PLUS, WITH 10° X 30° ADA COMPLIANT WINDOWS, 18° TALL BUMPERS,						ACTURER.						
LINE WITH THE JAMBS THAT EXTENDS ABOVE THE OPENING FOR A MINIMUM OF 30" FOR ATTACHMENT POINTS. STRUCTURAL SURFACE TO BE CAPABLE OF WITHSTANDING 1850 LB. POINT FORCE IN EITHER TENSION, COMPRESSION OR SHEAR. 16. PROVIDE AND INSTALL "EMPLOYEES ONLY" SIGN WHERE INDICATED. 17. W/ 2 EACH CRASH RAILS ON INSIDE OF EACH DOOR. 18. 72" X 96", 72" X 84" OR 36" X 96" OPENINGS TO BE PROVIDED AS: P11PLUS, WITH 10" X 30" ADA COMPLIANT WINDOWS, 18" TALL BUMPERS,												
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16.       PROVIDE AND INSTALL "EMPLOYEES ONLY" SIGN WHERE INDICATED.         17.       W/ 2 EACH CRASH RAILS ON INSIDE OF EACH DOOR.         18.       72" X 96", 72" X 84" OR 36" X 96" OPENINGS TO BE PROVIDED AS: P11PLUS, WITH 10" X 30" ADA COMPLIANT WINDOWS, 18" TALL BUMPERS,												
18. 72" X 96", 72" X 84" OR 36" X 96" OPENINGS TO BE PROVIDED AS: P11PLUS, WITH 10" X 30" ADA COMPLIANT WINDOWS, 18" TALL BUMPERS,						TED.		AUUE				
	,					211만[[]응 \\/ITH 10" Y 20				1 EA.	BALANCE OF HARDWARE BY DOOR SUPPLIER	BEST
ALL LOCKSETS WILL BE FURNISHED CONSTRUCTION KEYED AT THE END OF THE CONSTRUCTION PERIOD NEW PERMANENT CORES	CO	LOR: RED. (OR) OPEN				,	, , , ,					



- COLOR: RED.
- 19. INSTALL CLEAR ANODIZED STOREFRONT FRAMING WITH 1/4" TEMP. CLEAR GLASS SIDELIGHTS. DOOR TO SWING OPEN TO SALES AREA. SIDELIGHT GLASS TO ACCEPT 6.25" X 48.85" VINYL FILM. NARROW STILE DOOR WINDOW GLASS TO ACCEPT 30.25" X 57.825" VINYL FILM.
- 20. ANEMOSTAT WINDOW KIT WITH CLEAR TEMPERED 1/4" GLASS WITH GLAZING TAPE APPLIED (BOTH SHIPPED LOOSE). BY DH PACE.
- 21. CONTRACTOR TO PAINT FRAME SW7513 SANDERLING BOTH SIDES. 22. SFIC COMPATIBLE HARDWARE.
- 23. ACCESS PANEL TO BE SUPPLIED AND INSTALLED BY GC.

## FINISH SCHEDULE

ROOM NO.	ROOM	WALLS	CEILING	BASE	FLOOR	REMARKS
101	VESTIBULE	PTD. C.M.U. / STOREFRONT	GYP. BD. CEILING PANELS @ 10'-0" A.F.F.	-		6, 9
102	RETAIL SALES	PTD. GYP. / C.M.U. (SEMI-GLOSS. WHITE)	EXP. STRUCTURE FACTORY PRIMED (GRAY)	VINYL	POLISHED CONC./ VINYL PLANK	2, 3, 9
103	NOT USED					
104	DRESSING ROOM	PTD. GYP. / C.M.U. (SEMI-GLOSS. WHITE)	OPEN TO DECK ABOVE	VINYL	VINYL PLANK	2, 8
105	STOCKROOM	PTD. GYP. / C.M.U. / PLYWOOD (SEMI-GLOSS, WHITE) TO DECK	EXP. STRUCTURE FACTORY PRIMED (GRAY)	-	POLISHED CONC.	9
106	CORRIDOR	PTD. GYP. / F.R.P.	A.C.T. @ 8'-0" A.F.F.	VINYL	POLISHED CONC.	1, 4, 7, 9
107	MANAGER'S OFFICE	PTD. GYP.	A.C.T. @ 8'-0" A.F.F.	VINYL	POLISHED CONC.	1, 4, 9
108	EMPLOYEE LOUNGE	PTD. GYP.	A.C.T. @ 8'-0" A.F.F.	VINYL	POLISHED CONC.	1, 4, 9
109	MEN	PTD. GYP. / C.M.U. / F.R.P.	A.C.T. @ 8'-0" A.F.F.	VINYL	POLISHED CONC.	1, 4, 5, 9
110	WOMEN	PTD. GYP. / C.M.U. / F.R.P.	A.C.T. @ 8'-0" A.F.F.	VINYL	POLISHED CONC.	1, 4, 5, 9
111	IT / ELECTRICAL	PTD. C.M.U. / PLYWOOD (SEMI-GLOSS, WHITE) TO DECK	EXP. STRUCTURE FACTORY PRIMED (GRAY)	-	POLISHED CONC.	9
112	PET WASH	F.R.P. / ALUMINUM MESH	ALUMINUM MESH SCREEN @ 10'-0" A.F.F.	EPOXY	EPOXY	

1. CEILING TILE: 2" X 4" X 3/4" MINERAL BOARD, NON-DIRECTIONAL FISSURED, MEDIUM TEXTURE, FLAME RESISTANCE CLASS A, FLAME SPREAD CLASS I

2. VINYL PLANK: TO BE DELIVERED BY TSC; SUPPLIED, PURCHASED AND INSTALLED BY CONTRACTOR. BEVELED EDGE VINYL PLANK TO BE USED AT EXPOSED TRANSITION OF VINYL PLANK FLOORING TO CONCRETE.

- 3. RED ACCENT STRIPE @ 10'-3" FROM FINISH FLOOR TO BOTTOM OF STRIPE 1'-0" STRIPE
- 4. WALL COLOR TO BE (SW7036 ACCESSIBLE BEIGE). TRIM AND DOORS TO BE (SW1012 POWER GRAY). 5. FRP WAINSCOT TO BE INSTALLED ON ALL NON-MASONRY WALLS 4'-0" A.F.F. COLOR: XA WHITE, FINISH: TEXTURED. 6. GRID STONE GYPSUM CEILING PANELS 1/2" X 2' X 4'
- 7. FRP WAINSCOT TO BE INSTALLED BEHIND AND ON ALL SIDES OF THE WATER COOLER ALCOVE TO 4'-0" A.F.F. COLOR: XA WHITE, FINISH: TEXTURED.
- 8. EXTERIOR DRESSING ROOM GYP. WALLS TO BE WALLPAPER PROVIDED AND INSTALLED BY TSC. GYP. WALL CAP AND EXTERIOR WALL EXTENDING ABOVE 9'-0" A.F.F. TO BE PAINTED PURE WHITE W/ RED STRIPE TO MATCH RETAIL SALES WALLS. WALLPAPER TO BE INSTALLED PRIOR TO TURNOVER.
- 9. GENERAL CONTRACTOR RESPONSIBLE FOR ALL CONCRETE REPLACEMENT, TRENCH POUR BACKS AND FILLING/PATCHING BACK OF HOLES 3" OR LARGER AND IN-GROUND ELECTRICAL BOXES NOT IN USE.

## 

ALL LOCKSETS WILL BE FURNISHED CONSTRUCTION KEYED. AT THE END OF THE CONSTRUCTION PERIOD NEW PERMANENT CORES BY INSTAKEY WILL BE FURNISHED TO THE CONTRACTOR WHO WILL THEN CHANGE THEM OUT AND RETURN THE CONSTRUCTION CORES TO

THE SUPPLIER. THERE WILL BE A SEALED CARTON WITH THE SHIPMENT. THE CONTRACTOR IS TO TURN THAT SEALED CARTON OVER TO THE TSC STORE MANAGER AND GET THEIR SIGNATURE ON THE ENCLOSED RECEIPT. FORWARD THAT RECEIPT ALONG WITH THE CONSTRUCTION CORES AND CONTROL KEYS TO THE SUPPLIER "DH PACE".

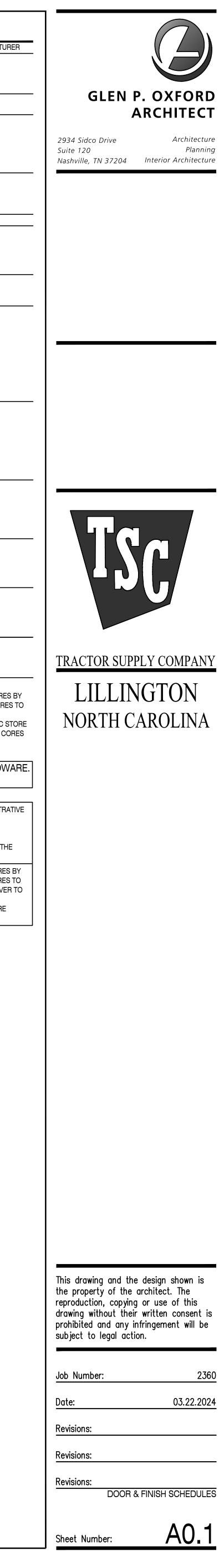
THE ITEMS IN THE SEALED CARTON ARE FOR FUTURE STORE OPERATIONS AND ARE NOT CONSTRUCTION RELATED.

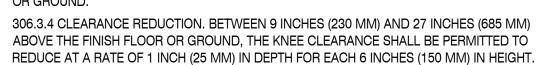
NOTE: TRACTOR SUPPLY COMPANY HAS A NATIONAL ACCOUNT WITH DH PACE FOR DOOR HARDWARE. CONTACT: CHARLES GIRTMAN @ TSCDOORS@DHPACE.COM OR #816.221.0543

DOOR-OPENING FORCE - FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. THE FORCE FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL BE AS FOLLOWS: 1. INTERIOR HINGED DOOR: 5.0 POUNDS MAXIMUM

2. SLIDING OR FOLDING DOOR: 5.0 POUNDS MAXIMUM THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR IN A CLOSED POSITION.

ALL LOCKSETS WILL BE FURNISHED CONSTRUCTION KEYED. AT THE END OF THE CONSTRUCTION PERIOD, NEW PERMANENT CORES BY INSTAKEY WILL BE FURNISHED TO THE CONTRACTOR WHO WILL THEN CHANGE THEM OUT AND RETURN THE CONSTRUCTION CORES TO THE SUPPLIER. THERE WILL BE A SEALED CARTON WITH THE SHIPMENT. THE CONTRACTOR IS TO TURN THAT SEALED CARTON OVER TO THE TSC STORE MANAGER AND GET THEIR SIGNATURE ON THE ENCLOSED RECEIPT. FORWARD THAT RECEIPT ALONG WITH THE CONSTRUCTION CORES AND CONTROL KEYS TO THE SUPPLIER "MJW". THE ITEMS IN THE SEALED CARTON ARE FOR FUTURE STORE OPERATIONS AND ARE NOT CONSTRUCTION RELATED.



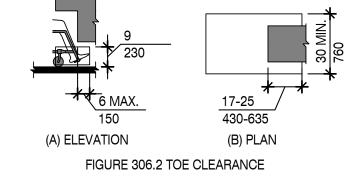


(280 MM) DEEP MINIMUM AT 9 INCHES (230 MM) ABOVE THE FINISH FLOOR OR GROUND, OR GROUND.

306.3.3 MINIMUM REQUIRED DEPTH. WHERE KNEE CLEARANCE IS REQUIRED UNDER AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE KNEE CLEARANCE SHALL BE 11 INCHES AND 8 INCHES (205 MM) DEEP MINIMUM AT 27 INCHES (685 MM) ABOVE THE FINISH FLOOR

306.3.2 MAXIMUM DEPTH. KNEE CLEARANCE SHALL EXTEND 25 INCHES (635 MM) MAXIMUM UNDER AN ELEMENT AT 9 INCHES (230 MM) ABOVE THE FINISH FLOOR OR GROUND.

306.3.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN 9 INCHES (230 MM) AND 27 INCHES (685 MM) ABOVE THE FINISH FLOOR OR GROUND SHALLL BE CONSIDERED KNEE CLEARANCE AND SHALL COMPLY WITH 306.3.



FLOOR OR GROUND SHALL NOT BE CONSIDERED TOE CLEARANCE 306.2.5 WIDTH. TOE CLEARANCE SHALL BE 30 INCHES (760 MM) WIDE MINIMUM.

INCHES (430 MM) MINIMUM UNDER THE ELEMENT. 306.2.4 ADDITIONAL CLEARANCE. SPACE EXTENDING GREATER THAN 6 INCHES (150 MM) BEYOND THE AVAILABLE KNEE CLEARANCE AT 9 INCHES (230 MM) ABOVE THE FINISH

306.2.3 MINIMUM REQUIRED DEPTH. WHERE TOE CLEARANCE IS REQUIRED AT AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE TOE CLEARANCE SHALL EXTEND 17

306.2.2 MAXIMUM DEPTH. TOE CLEARANCE SHALL EXTEND 25 INCHES (635 MM) MAXIMUM UNDER AN ELEMENT

AND 9 INCHES (230 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED TOE CLEARANCE AND SHALL COMPLY WITH 306.2.

306.2.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN THE FINISH FLOOR OR GROUND

306.2 TOE CLEARANCE

306.3 KNEE CLEARANCE

FIGURE 305.7.2 MANEUVERING CLEARANCE IN AN ALCOVE PARALLEL APPROACH 306 KNEE AND TOE CLEARANCE

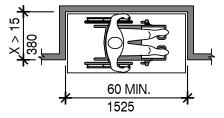


FIGURE 305.7.1 MANEUVERING CLEARANCE IN AN ALCOVE, FORWARD APPROACH 305.7.2 PARALLEL APPROACH. ALCOVES SHALL BE 60 INCHES (1525 MM) WIDE MINIMUM WHERE THE DEPTH EXCEEDS 15 INCHES (380 MM).

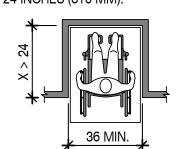
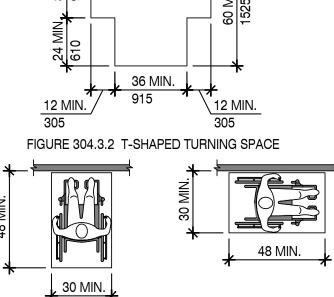


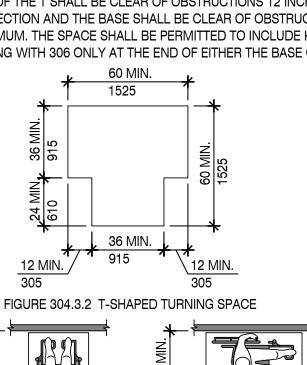
FIGURE 305.5 POSITION OF CLEAR FLOOR OR GROUND SPACE 305.7.1 FORWARD APPROACH . ALCOVES SHALL BE 36 INCHES (915 MM) WIDE MINIMUM WHERE THE DEPTH EXCEEDS 24 INCHES (610 MM).

(B) PARALLEL

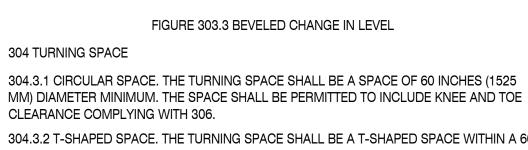
(A) FORWARD



MINIMUM IN EACH DIRECTION AND THE BASE SHALL BE CLEAR OF OBSTRUCTIONS 24 INCHES (610 MM) MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306 ONLY AT THE END OF EITHER THE BASE OR ONE ARM. 60 MIN. 1525



304.3.2 T-SHAPED SPACE. THE TURNING SPACE SHALL BE A T-SHAPED SPACE WITHIN A 60 INCH (1525 MM) SQUARE MINIMUM WITH ARMS AND BASE 36 INCHES (915 MM) WIDE MINIMUM. EACH ARM OF THE T SHALL BE CLEAR OF OBSTRUCTIONS 12 INCHES (305 MM)



ACCESSIBILITY STANDARDS

302.2 CARPET . CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE

SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE

PILE HEIGHT SHALL BE 1/2 INCH (13 MM) MAXIMUM. EXPOSED EDGES OF CARPET SHALL BE

FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE

FIGURE 302.2 CARPET PILE HEIGH

PASSAGE OF A SPHERE MORE THAN 1/2 INCH (13 MM) DIAMETER EXCEPT AS ALLOWED IN

407.4.3, 409.4.3, 410.4, 810.5.3 AND 810.10. ELONGATED OPENINGS SHALL BE PLACED SO

THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

FIGURE 302.3 ELONGATED OPENINGS IN FLOOR OR GROUND SURFACES

FIGURE 303.2 VERTICAL CHANGE IN LEVEL

303.3 BEVELED. CHANGES IN LEVEL BETWEEN 1/4 INCH (6.4 MM) HIGH MINIMUM AND 1/2

INCH (13 MM) HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2

303.2 VERTICAL. CHANGES IN LEVEL OF 1/4 INCH (6.4 MM) HIGH MAXIMUM SHALL BE

302.3 OPENINGS. OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW

EXPOSED EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH 303.

DOMINANT DIRECTION OF TRAVEL-

LONG DIMENSION-

OF TRAVEL

PERMITTED TO BE VERTICAL.

PERPENDICULAR TO

DOMINANT DIRECTION

A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE

CHAPTER 3: BUILDING BLOCKS

302 - FLOOR OR GROUND SURFACES

TEXTURE.

FIGURE 307.4 VERTICAL CLEARANCE 308.2 FORWARD REACH

FINISH FLOOR OR GROUND.

308.2.1 UNOBSTRUCTED. WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES (380 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

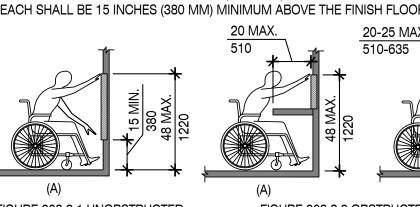


FIGURE 308.2.1 UNOBSTRUCTED

308.3 SIDE REACH

10 MAX. \*/\*

**309 OPERABLE PARTS** 

SHALL BE PROVIDED.

RANGES SPECIFIED IN 308.

403 WALKING SURFACES

COMPLY WITH 403.

302.

403.5.

PERFORMED.

CHAPTER 4 : ACCESSIBLE ROUTES

FIGURE 308.3.1 UNOBSTRUCTED

SIDE REACH

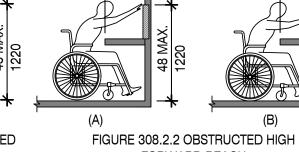
DEPTH OF 24 INCHES (610 MM) MAXIMUM.

FIGURE 308.3.2 OBSTRUCTED HIGH

SIDE REACH

 $\frac{1}{2}$ 

HIGH FORWARD REACH 308.2.2 OBSTRUCTED HIGH REACH. WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A



DEPTH SHALL BE 25 INCHES (635 MM) MAXIMUM.

FORWARD REACH

DISTANCE NOT LESS THAN REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH

FORWARD REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM WHERE THE REACH DEPTH IS

20 INCHES (510 MM) MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 20 INCHES (510 MM),

PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH

SIDE REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM AND THE LOW SIDE REACH SHALL

THE HIGH FORWARD REACH SHALL BE 44 INCHES (1120 MM) MAXIMUM AND THE REACH

308.3.1 UNOBSTRUCTED. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A

0 MAX.

PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN

OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES (865 MM)

MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES (610 MM)

308.3.2 OBSTRUCTED HIGH REACH. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A

MAXIMUM. THE HIGH SIDE REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM FOR A REACH

DEPTH OF 10 INCHES (255 MM) MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 10 INCHES

(255 MM), THE HIGH SIDE REACH SHALL BE 46 INCHES (1170 MM) MAXIMUM FOR A REACH

309.2 CLEAR FLOOR SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305

309.3 HEIGHT. OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH

309.4 OPERATION. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL

NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE

REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (22. 2 N) MAXIMUM.

402.2 COMPONENTS. ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE

THAN 1:20, DOORWAYS, RAMPS, CURB RAMPS EXCLUDING THE FLARED SIDES,

COMPLY WITH THE APPLICABLE REQUIREMENTS OF CHAPTER 4.

FOLLOWING COMPONENTS: WALKING SURFACES WITH A RUNNING SLOPE NOT STEEPER

ELEVATORS, AND PLATFORM LIFTS. ALL COMPONENTS OF AN ACCESSIBLE ROUTE SHALL

ADVISORY 402.2 COMPONENTS. WALKING SURFACES MUST HAVE RUNNING SLOPES NOT

RAMP (405) AND CURB RAMPS (406), ARE PERMITTED TO BE MORE STEEPLY SLOPED.

STEEPER THAN 1:20, SEE 403.3. OTHER COMPONENTS OF ACCESSIBLE ROUTES, SUCH AS

403.1 GENERAL. WALKING SURFACES THAT ARE A PART OF AN ACCESSIBLE ROUTE SHALL

403.2 FLOOR OR GROUND SURFACE. FLOOR OR GROUND SURFACE SHALL COMPLY WITH

403.3 SLOPE. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN

403.5 CLEARANCES. WALKING SURFACE SHALL PROVIDE CLEARANCES COMPLYING WITH

CIRCULATION PATHS SHALL BE PERMITTED TO BE DECREASED BY WORK AREA EQUIPMENT

403.5.1 CLEAR WIDTH. EXCEPT AS PROVIDED IN 403.5.2 AND 403.5.3. THE CLEAR WIDTH OF

EXCEPTION : THE CLEAR WIDTH SHALL BE PERMITTED TO BE REDUCED TO 32 INCHES (815

MM) MINIMUM FOR A LENGTH OF 24 INCHES (610 MM) MAXIMUM PROVIDED THAT REDUCED

PROVIDED THAT THE DECREASE IS ESSENTIAL TO THE FUNCTION OF THE WORK BEING

1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48.

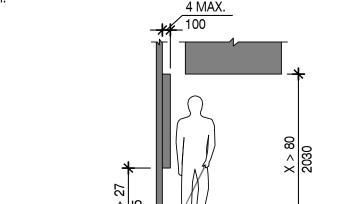
EXCEPTION : WITHIN EMPLOYEE WORK AREAS, CLEARANCES ON COMMON USE

403.4 CHANGE IN LEVEL. CHANGES IN LEVEL SHALL COMPLY WITH 303.

WALKING SURFACES SHALL BE 36 INCHES (915 MM) MINIMUM.

BE 15 INCHES (380 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.





+/+(A) ELEVATION (B) PLAN FIGURE 306.3 KNEE CLEARANCE

307.2 PROTRUSION LIMITS. OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES (685 MM) AND NOT MORE THAN 80 INCHES (2030 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4 INCHES (100 MM) MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH EXCEPTION: HANDRAILS SHALL BE PERMITTED TO PROTRUDE 4 ½ INCHES (115 MM) MAXIMUM

FIGURE 307.2 LIMITS OF PROTRUDING OBJECTS

307.4 VERTICAL CLEARANCE. VERTICAL CLEARANCE SHALL BE 80 INCHES (2030 MM) HIGH

MINIMUM. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL

GUARDRAIL OR BARRIER SHALL BE LOCATED 27 INCHES (685 MM) MAXIMUM ABOVE THE

EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES

(1980 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

CLEARANCE IS LESS THAN 80 INCHES (2030 MM) HIGH. THE LEADING EDGE OF SUCH

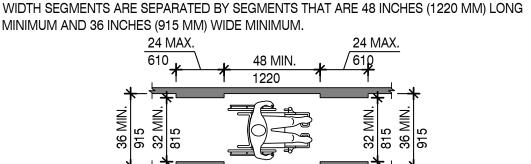
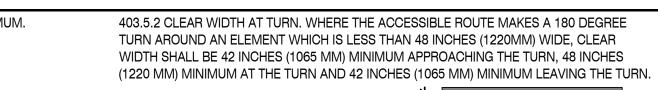
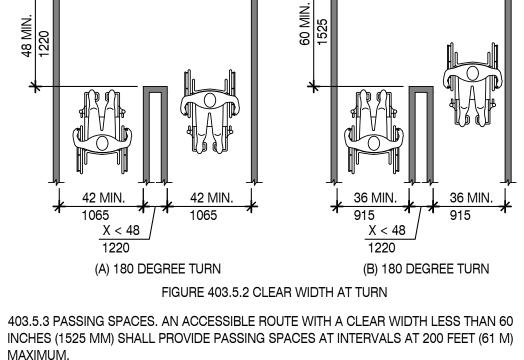


FIGURE 403.5.1 CLEAR WIDTH OF AN ACCESSIBLE ROUTE

306.3.5 WIDTH. KNEE CLEARANCE SHALL BE 30 INCHES (760 MM) WIDE MINIMUM. 307 PROTRUDING OBJECTS

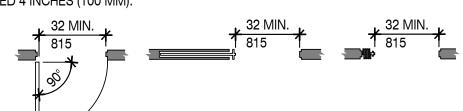






### 404 DOORS, DOORWAYS, AND GATES

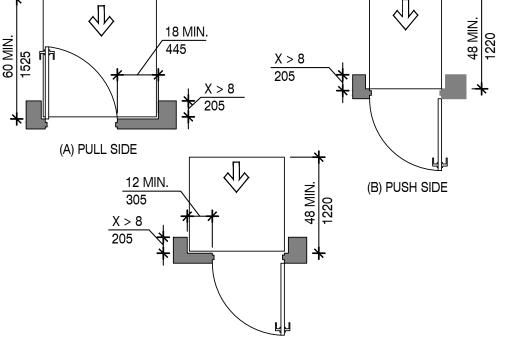
404,2.3 CLEAR WIDTH, DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES (815 MM) MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES, OPENINGS MORE THAN 24 INCHES (610 MM) DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES (915 MM) MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES (865 MM) ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES (865 MM) AND 80 INCHES (2030 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES (100 MM).



(B) SLIDING DOOR (C) FOLDING DOOR (A) HINGED DOOR FIGURE 404.2.3 CLEAR WIDTH OF DOORWAYS

404.2.4 MANEUVERING CLEARANCES. MINIMUM MANEUVERING CLEARANCES AT DOORS AND GATES SHALL COMPLY WITH 404.2.4. MANEUVERING CLEARANCES SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE REQUIRED LATCH OR HINGE SIDE CLEARANCE. 404.2.4.3 RECESSED DOORS AND GATES. MANEUVERING CLEARANCES FOR FORWARD

APPROACH SHALL BE PROVIDED WHEN ANY OBSTRUCTION WITHIN 18 INCHES (455 MM) OF THE LATCH SIDE OF A DOORWAY PROJECTS MORE THAN 8 INCHES (205 MM) BEYOND THE FACE OF THE DOOR, MEASURED PERPENDICULAR TO THE FACE OF THE DOOR OR GATE.



(C) PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH FIGURE 404.2.4.3 MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES

404.2.6 DOORS IN SERIES AND GATES IN SERIES, THE DISTANCE BETWEEN TWO HINGED OR PIVOTED DOORS IN SERIES AND GATES IN SERIES SHALL BE 48 INCHES (1220 MM) MINIMUM PLUS THE WIDTH OF DOORS OR GATES SWINGING INTO THE SPACE.

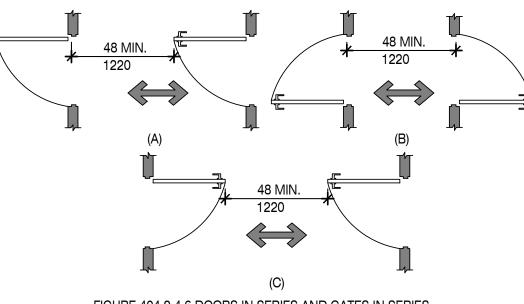


FIGURE 404.2.4.6 DOORS IN SERIES AND GATES IN SERIES

404.2.7 DOOR AND GATE HARDWARE. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH 309.4. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES (865 MM) MINIMUM AND 48 INCHES (1220 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.

404.2.8.1 DOOR CLOSERS AND GATE CLOSERS. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.

404.2.8.2 SPRING HINGES. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR OR GATE SHALL MOVED TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM.

404.2.9 DOOR AND GATE OPENING FORCE. FIRE DOORS SHALL HAVE A MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER THAN FIRE DOORS SHALL BE AS FOLLOWS

1. INTERIOR HINGED DOORS AND GATES: 5 POUNDS (22.2. N) MAXIMUM. 2. SLIDING OR FOLDING DOORS: 5 POUNDS (22.2 N) MAXIMUM.

THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION.

404.2.10 DOOR AND GATE SURFACES. SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES (255 MM) OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACE SHALL BE WITHIN  $\frac{1}{16}$  INCH (1.6 MM) OF THE SAME PLANE AS THE OTHER. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED

404.2.11 VISION LIGHTS. DOORS, GATES, AND SIDE LIGHTS ADJACENT TO DOORS OR GATES, CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE GLAZED PANEL LOCATED 43 INCHES (1090 MM) MAXIMUM ABOVE THE FINISH FLOOR.

404.3 AUTOMATIC AND POWER-ASSISTED DOORS AND GATES. AUTOMATIC DOORS AND AUTOMATIC GATES SHALL COMPLY WITH 404.3. FULL-POWERED AUTOMATIC DOORS SHALL COMPLY WITH ANSI/BHMA A156.10 (INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1). LOW-ENERGY AND POWER-ASSISTED DOORS SHALL COMPLY WITH ANSI/BHMA A156.19 (1997 OR 2002 EDITION) (INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1),

404.3.2 MANEUVERING CLEARANCE. CLEARANCES AT POWER-ASSISTED DOORS AND GATES SHALL COMPLY WITH 404.2.4. CLEARANCES AT AUTOMATIC DOORS AND GATES WITHOUT STANDBY POWER AND SERVING AN ACCESSIBLE MEANS OF EGRESS SHALL COMPLY WITH 404.2.4.

404.3.7 REVOLVING DOORS. REVOLVING GATES, AND TURNSTILES. REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES SHALL NOT BE A PART OF AN ACCESSIBLE ROUTE. CHAPTER 6 : PLUMBING ELEMENTS AND FACILITIES

602 DRINKING FOUNTAINS

602.2 CLEAR FLOOR SPACES. UNITS SHALL HAVE A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 POSITIONED FOR A FORWARD APPROACH AND CENTERED ON THE UNIT. KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED. EXCEPTION: A PARALLEL APPROACH COMPLYING WITH 305 SHALL BE PERMITTED AT UNITS FOR CHILDREN'S USE WHERE THE SPOUT IS 30 INCHES (760 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND AND IS 3 ½ INCHES (90 MM) MINIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS

602.3 OPERABLE PARTS. OPERABLE PARTS SHALL COMPLY WITH 309.

602.4 SPOUT HEIGHTS. SPOUT OUTLETS SHALL BE 36 INCHES (915 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. 602.5 SPOUT LOCATION. THE SPOUT SHALL BE LOCATED 15 INCHES (380 MM) MINIMUM

FROM THE VERTICAL SUPPORT AND 5 INCHES (125 MM) MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS

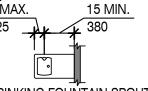


FIGURE 602.5 DRINKING FOUNTAIN SPOUT LOCATION 602.6 WATER FLOW. THE SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES (100 MM) HIGH MINIMUM AND SHALL BE LOCATED 5 INCHES (125 MM) MAXIMUM FROM THE FRONT FACE OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT. WHERE SPOUTS ARE LOCATED LESS THAN 3 INCHES (75 MM) OF THE FRONT OF THE UNIT, ANGLE OF THE WATER STREAM SHALL BE 30 DEGREE MAXIMUM. WHERE SPOUTS ARE LOCATED BETWEEN 3 INCHES (75 MM) AND 5 INCHES (125 MM) MAXIMUM FROM THE FRONT OF THE UNIT, THE ANGLE OF THE

WATER STREAM SHALL BE 15 DEGREES MAXIMUM. 602.7 DRINKING FOUNTAINS FOR STANDING PERSON. SPOUT OUTLETS OF DRINKING FOUNTAINS FOR STANDING PERSONS SHALL BE 38 INCHES (965 MM) MINIMUM AND 43 INCHES (1090 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. 603 TOILET AND BATHING ROOMS

603.2 CLEARANCE. CLEARANCES SHALL COMPLY WITH 603.2

603.2.1 TURNING SPACE. TURNING SPACE COMPLYING WITH 304 SHALL BE PROVIDED WITHIN THE ROOM.

603.2.2 OVERLAP. REQUIRED CLEAR FLOOR SPACES, CLEARANCE AT FIXTURES, AND TURNING SPACE SHALL BE PERMITTED TO OVERLAP. 603.2.3 DOOR SWING, DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. DOORS SHALL BE PERMITTED TO SWING INTO THE REQUIRED TURNING SPACE.

603.3 MIRRORS. MIRRORS LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES (1015 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. MIRRORS NOT LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES (890 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

603.4 COAT HOOKS AND SHELVES. COAT HOOKS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN 308. SHELVES SHALL BE LOCATED 40 INCHES (1015 MM) MINIMUM AND 48 INCHES (1220 MM) MAXIMUM ABOVE THE FINISH FLOOR.

604 WATER CLOSETS AND TOILET COMPARTMENTS 604.2 LOCATION. THE WATER CLOSET SHALL BE POSITIONED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 16 INCHES (405 MM) MINIMUM TO 18 INCHES (455 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION, EXCEPT THAT THE WATER CLOSET SHALL BE 17 INCHES (430 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION IN THE AMBULATORY ACCESSIBLE TOILET COMPARTMENT SPECIFIED IN 604.8.2. WATER CLOSETS SHALL BE ARRANGED FOR A LEFT- HAND OR RIGHT- HAND APPROACH.

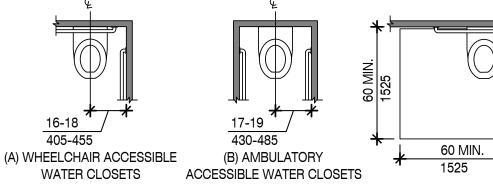


FIGURE 604.2 LOCATION FIGURE 604.3.1 SIZE OF AT WATER CLOSETS CLEARANCE AT WATER CLOSETS

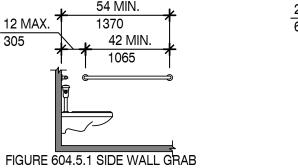
604.3.1 SIZE. CLEARANCE AROUND A WATER CLOSET SHALL BE 60 INCHES (1525 MM) MINIMUM MEASURED PERPENDICULAR FROM THE SIDE WALL AND 60 INCHES (1525 MM MINIMUM MEASURED PERPENDICULAR FROM THE REAR WALL

604.3.2 OVERLAP. THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, DISPENSERS, SANITARY NAPKIN DISPOSAL UNITS, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AND CLEARANCES REQUIRED AT OTHER FIXTURES, AND THE TURNING WATER CLOSET CLEARANCE.

SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED 604.4 SEATS. THE SEAT HEIGHT OF A WATER CLOSET ABOVE THE FINISH FLOOR SHALL BE 17 INCHES (430 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.

604.5 GRAB BARS. GRAB BARS FOR WATER CLOSETS SHALL COMPLY WITH 609. GRAB BARS SHALL BE PROVIDED ON THE SIDE WALL CLOSEST TO THE WATER CLOSET AND ON THE REAR WALL.

604.5.1 SIDE WALL. THE SIDE WALL GRAB BAR SHALL BE 42 INCHES (1065 MM) LONG MINIMUM, LOCATED 12 INCHES (305 MM) MAXIMUM FROM THE REAR WALL AND EXTENDING 54 INCHES (1370 MM) MINIMUM FROM THE REAR WALL. → 36 MIN. → 12 MIN. → 305



FIGURE<sup>604.5.2</sup> REAR WALL GRAB BAR AT WATER CLOSETS

BAR AT WATER CLOSETS 604.5.2 REAR WALL. THE REAR WALL GRAB BAR SHALL BE 36 INCHES (915 MM) LONG MINIMUM AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES (305 MM)

MINIMUM ON ONE SIDE AND 24 INCHES (610 MM) MINIMUM ON THE OTHER SIDE. 604.6 FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH 309. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET EXCEPT IN AMBULATORY ACCESSIBLE COMPARTMENTS COMPLYING WITH 604.8.2

604.7 DISPENSERS. TOILET PAPER DISPENSERS SHALL COMPLY WITH 309.4 AND SHALL BE 7 INCHES (180 MM) MINIMUM AND 9 INCHES (230 MM) MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE 15 INCHES (380 MM) MINIMUM AND 48 INCHES (1220 MM) MAXIMUM ABOVE THE FINISH FLOOR AND SHALL NOT BE LOCATED BEHIND GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW

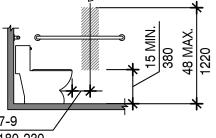
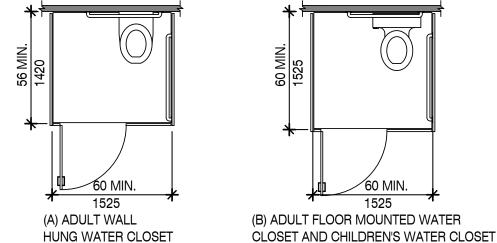


FIGURE 604.7 DISPENSER OUTLET LOCATION

604.8 TOILET COMPARTMENTS. WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS SHALI MEET THE REQUIREMENTS OF 604.8.1 AND 604.8.3. COMPARTMENTS CONTAINING MORE THAN ONE PLUMBING FIXTURE SHALL COMPLY WITH 603. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL COMPLY WITH 604.8.2 AND 604.8.3. 604.8.1 WHEELCHAIR ACCESSIBLE COMPARTMENTS. WHEELCHAIR ACCESSIBLE

COMPARTMENTS SHALL COMPLY WITH 604.8.1 604.8.1.1 SIZE. WHEELCHAIR ACCESSIBLE COMPARTMENTS SHALL BE 60 INCHES (1525 MM) WIDE MINIMUM MEASURED PERPENDICULAR TO THE SIDE WALL, AND 56 INCHES (1420 MM) DEEP MINIMUM FOR WALL HUNG WATER CLOSETS AND 59 INCHES (1500 MM) DEEP MINIMUM FOR FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL. WHEELCHAIR ACCESSIBLE COMPARTMENTS FOR CHILDREN'S USE SHALL BE 60 INCHES (1525 MM) WIDE MINIMUM MEASURED PERPENDICULAR TO THE SIDE WALL, AND

59 INCHES (1500 MM) DEEP MINIMUM FOR WALL HUNG AND FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL.



HUNG WATER CLOSET

FIGURE 604.8.1.1 SIZE OF WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS 604.8.1.2 DOORS. TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH 404 EXCEPT THAT IF THE APPROACH IS TO THE LATCH SIDE OF THE COMPARTMENT DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 42 INCHES (1065 MM) MINIMUM, DOORS SHALL BE LOCATED IN THE FRONT PARTITION OR IN THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. WHERE LOCATED IN THE FRONT PARTITION, THE DOOR OPENING SHALL BE 4 INCHES (100 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. WHERE LOCATED IN THE SIDE WALL OR PARTITION, THE DOOR OPENING SHALL BE 4 INCHES (100 MM) MAXIMUM FROM THE FRONT PARTITION. THE DOOR SHALL BE SELF-CLOSING. A DOOR PULL COMPLYING WITH 404.2.7 SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE MINIMUM REQUIRED COMPARTMENT AREA.

CONTINUOUS PAPER FLOW.



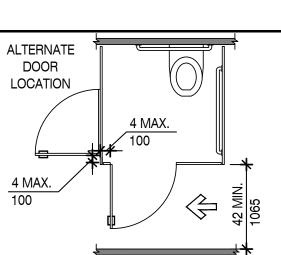


FIGURE 604.8.1.2 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS 604.8.1.3 APPROACH. COMPARTMENTS SHALL BE ARRANGED FOR LEFT- HAND OR RIGHT-HAND APPROACH TO THE WATER CLOSET.

604.8.1.4 TOE CLEARANCE. THE FRONT PARTITION AND AT LEAST ONE SIDE PARTITION SHALL PROVIDE A TOE CLEARANCE OF 9 INCHES (230 MM) MINIMUM ABOVE THE FINISH FLOOR AND 6 INCHES (150 MM) DEEP MINIMUM BEYOND THE COMPARTMENT - SIDE FACE OF THE PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS. COMPARTMENTS FOR CHILDREN'S USE SHALL PROVIDE A TOE CLEARANCE OF 12 INCHES (305 MM) MINIMUM ABOVE THE FINISH FLOOR.

EXCEPTION: TOE CLEARANCE AT THE FRONT PARTITION IS NOT REQUIRED IN A COMPARTMENT GREATER THAN 62 INCHES (1575 MM) DEEP WITH A WALL - HUNG WATER CLOSET OR 65 INCHES (1650 MM) DEEP WITH A FLOOR - MOUNTED WATER CLOSET. TOE CLEARANCE AT THE SIDE PARTITION IS NOT REQUIRED IN A COMPARTMENT GREATER THAN 66 INCHES (1675 MM) WIDE, TOE CLEARANCE AT THE FRONT PARTITION IS NOT REQUIRED IN A COMPARTMENT FOR CHILDREN'S USE THAT IS GREATER THAN 65 INCHES (1650 MM) DEEP.

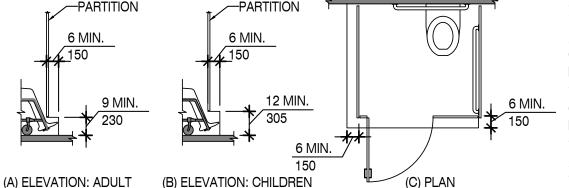


FIGURE 604.8.1.4 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE 604.8.1.5 GRAB BARS. GRAB BARS SHALL COMPLY WITH 609. A SIDE-WALL GRAB BAR COMPLYING WITH 604.5.1 SHALL BE PROVIDED AND SHALL BE LOCATED ON THE WALL CLOSEST TO THE WATER CLOSET. IN ADDITION, A REAR-WALL GRAB BAR COMPLYING WITH

604.5.2 SHALL BE PROVIDED. 604.8.1.2 AMBULATORY ACCESSIBLE COMPARTMENTS. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL COMPLY WITH 604.8.2.

604.8.1.2.1 SIZE. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL HAVE A DEPTH OF 60 INCHES (1525 MM) MINIMUM AND A WIDTH OF 35 INCHES (890 MM) MINIMUM AND 37 INCHES (940 MM) MAXIMUM. 604.8.2.2 DOORS. TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL

COMPLY WITH 404, EXCEPT THAT IF THE APPROACH IS TO THE LATCH SIDE OF THE COMPARTMENT DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 42 INCHES (1065 MM) MINIMUM. THE DOOR SHALL BE SELF-CLOSING. A DOOR PULL COMPLYING WITH 404.2.7 SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE MINIMUM REQUIRED COMPARTMENT AREA.

604.8.2.3 GRAB BARS. GRAB BARS SHALL COMPLY WITH 609. A SIDE - WALL GRAB BAR COMPLYING WITH 604.5.1 SHALL BE PROVIDED ON BOTH SIDE OF THE COMPARTMENT.

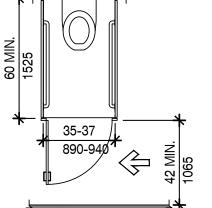


FIGURE 604.8.2 AMBULATORY ACCESSIBLE TOILET COMPARTMENT

604.8.3 COAT HOOKS AND SHELVES. COAT HOOKS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN 308. SHELVES SHALL BE LOCATED 40 INCHES (1015 MM) MINIMUM AND 48 INCHES (1220MM) MAXIMUM ABOVE THE FINISH FLOOR

604.9 WATER CLOSETS AND TOILET COMPARTMENTS FOR CHILDREN'S USE. WATER CLOSETS AND TOILET COMPARTMENTS FOR CHILDREN'S USE SHALL COMPLY WITH 604.9. 604.9.1 LOCATION. THE WATER CLOSET SHALL BE LOCATED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 12 INCHES (305 MM) MINIMUM AND 18 INCHES (455 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION, EXCEPT THAT THE WATER CLOSET SHALL BE 17 INCHES (430 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION IN THE AMBULATORY ACCESSIBLE TOILET COMPARTMENT SPECIFIED IN 604.8.2. COMPARTMENTS SHALL BE ARRANGED FOR LEFT-HAND OR RIGHT-HAND APPROACH TO THE WATER CLOSET.

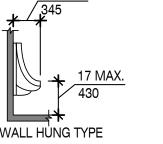
604.9.2 CLEARANCE. CLEARANCE AROUND A WATER CLOSET SHALL COMPLY WITH 604.3. 604.9.3 HEIGHT. THE HEIGHT OF WATER CLOSETS SHALL BE 11 INCHES (280 MM) MINIMUM AND 17 INCHES (430 MM) MAXIMUM MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION

604.9.4 GRAB BARS. GRAB BARS FOR WATER CLOSETS SHALL COMPLY WITH 604.5. 604.9.5 FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH 309.2 AND 309.4 AND SHALL BE INSTALLED 36 INCHES (915 MM) MAXIMUM ABOVE THE FINISH FLOOR. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET EXCEPT IN AMBULATORY ACCESSIBLE COMPARTMENTS COMPLYING WITH 604.8.2.

604.9.6 DISPENSERS. TOILET PAPER DISPENSERS SHALL COMPLY WITH 309.4 AND SHALL BE 7 INCHES (180 MM) MINIMUM AND 9 INCHES (230 MM) MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE 14 INCHES (355 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM ABOVE THE FINISH FLOOR. THERE SHALL BE A CLEARANCE OF 1  $\frac{1}{2}$  INCHES (38 MM) MINIMUM BELOW THE GRAB BAR. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW.

604.9.7 TOILET COMPARTMENTS. TOILET COMPARTMENTS SHALL COMPLY 604.8. 605 URINALS

WITH THE RIM 17INCHES (430 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. URINALS SHALL BE 13 ½ INCHES (345 MM) DEEP MINIMUM MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE.



(B) STALL TYPE

605.3 CLEAR FLOOR SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 POSITIONED FOR FORWARD APPROACH SHALL BE PROVIDED. 605.4 FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH 309.

606.2 CLEAR FLOOR SPACE. A CLEAR FLOOR SPACE COMPLYING WITH 305, POSITIONED FOR A FORWARD APPROACH , AND KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE

PROVIDED 606.3 HEIGHT. LAVATORIES AND SINKS SHALL BE INSTALLED WITH THE FRONT OF THE

FINISH FLOOR OR GROUND. 606.4 FAUCETS. CONTROLS FOR FAUCETS SHALL COMPLY WITH 309. HAND-OPERATED

702.1 GENERAL. FIRE ALARM SYSTEMS SHALL HAVE PERMANENTLY INSTALLED AUDIBLE AND VISIBLE ALARMS COMPLYING WITH NFPA 72 (1999 OR 2002 EDITION) (INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1), EXCEPT THAT THE MAXIMUM ALLOWABLE SOUND LEVEL OF AUDIBLE NOTIFICATION APPLIANCES COMPLYING WITH SECTION 4-3.2.1 OF NFPA 72 (1999 EDITION) SHALL HAVE A SOUND LEVEL NO MORE THAN 110 DB AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE. IN ADDITION, ALARMS IN GUEST ROOMS REQUIRED TO PROVIDE COMMUNICATION FEATURES SHALL COMPLY WITH SECTIONS 4-3 AND 4-4 OF NFPA 72 (1999 EDITION) OR SECTIONS 7.4 AND 7.5 OF NFPA 72 (2002 EDITION).

703 SIGNS 703.1 GENERAL. SIGNS SHALL COMPLY WITH 703. WHERE BOTH VISUAL AND TACTILE CHARACTERS ARE REQUIRED, EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE CHARACTERS OR TWO SEPARATE SIGNS, ONE WITH VISUAL AND ONE WITH TACTILE CHARACTERS, SHALL BE PROVIDED.

703.2 RAISED CHARACTERS. RAISED CHARACTERS SHALL COMPLY WITH 703.2 AND SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH 703.3. RAISED CHARACTERS SHALL BE INSTALLED IN ACCORDANCE WITH 703.4.

703.2.1 DEPTH. RAISED CHARACTERS SHALL BE 1/32 INCH (0.8 MM) MINIMUM ABOVE THEIR BACKGROUND.

703.2.2 CASE. CHARACTERS SHALL BE UPPERCASE. 703.2.3 STYLE. CHARACTERS SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS. 703.2.4 CHARACTER PROPORTIONS. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "0" IS 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".

703.2.5 CHARACTER HEIGHT. CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8 INCH (16MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".

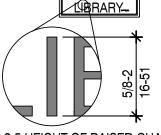


FIGURE 703.2.5 HEIGHT OF RAISED CHARACTERS 703.2.6 STROKE THICKNESS. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE

15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER. 703.2.7 CHARACTER SPACING. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE. EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8 INCH (3.2 MM) MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16 INCH (1.6 MM) MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS, AND 1/8 INCH (3.2 MM) MINIMUM

AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8 INCH (9.5 MM) MINIMUM. 703.2.8 LINE SPACING. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED

CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE RAISED CHARACTER HEIGHT. 703.3 BRAILLE. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH 703.3

AND 703.4. 703.3.1 DIMENSIONS AND CAPITALIZATION. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS AND ACRONYMS.

DISTANCE BETWEEN CORRESPONDIN DOTS IN ADJACENT CELLS	IG	- DISTANCE BETWEEN DOTS IN THE SAME CELL
DISTANCE BETWEEN DOTS IN THE SAME CELI		-BLANK CELL SPACE BETWEEN
	00 00 00	WORDS
		-RAISED DOT
		BASE DIAMETER
ONE CELL DIRECTLY BELOW	\	-NO RAISED DOT

FIGURE 703.3.1 BRAILLE MEASUREMENT 703.3.2 POSITION. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH (9.5 MM) MINIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH (9.5 MM) MINIMUM FROM RAISE<u>D BORDER</u>S AND DECORATIVE ELEMENTS.

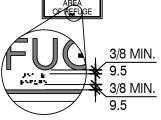
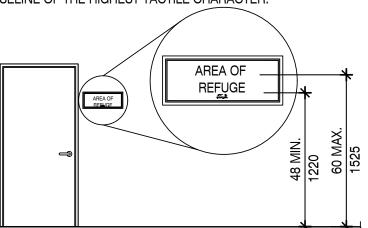


FIGURE 703.3.2 POSITION OF BRAILLE 703.4 INSTALLATION HEIGHT AND LOCATION. SIGNS WITH TACTILE CHARACTERS SHALL COMPLY WITH 703.4.

703.4.1 HEIGHT ABOVE FINISH FLOOR OR GROUND. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES (1220 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE TO THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER



703.4.2 LOCATION. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES (455 MM) MINIMUM BY 18 INCHES (455 MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.

FIGURE 703.4.1 HEIGHT OF TACTILE CHARACTERS ABOVE FINISH FLOOR OR GROUND

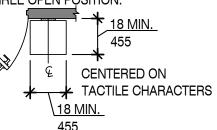


FIGURE 703.4.2 LOCATION OF TACTILE SIGNS AT DOORS

703.5 VISUAL CHARACTERS. VISUAL CHARACTERS SHALL COMPLY WITH 703.5. 703.5.1 FINISH AND CONTRAST. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

703.5.2 CASE. CHARACTERS SHALL BE UPPERCASE OR LOWERCASE OR A COMBINATION OF BOTH 703.5.3 STYLE. CHARACTERS SHALL BE CONVENTIONAL IN FORM. CHARACTERS SHALL NOT

BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS. 703.5.4 CHARACTER PROPORTIONS. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "0" IS 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".

703.5.5 CHARACTER HEIGHT. MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH TABLE 703.5.5. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE UPPERCASE LETTER "I".

703.5.6 HEIGHT FROM FINISH FLOOR OR GROUND. VISUAL CHARACTERS SHALL BE 40 INCHES (1015 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND. 703.5.7 STROKE THICKNESS. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE

10 PERCENT MINIMUM AND 30 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER. 703.5.8 CHARACTER SPACING, CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT CHARACTERS, EXCLUDING WORD SPACES. SPACING BETWEEN INDIVIDUAL CHARACTERS SHALL BE 10 PERCENT MINIMUM AND 35 PERCENT MAXIMUM OF CHARACTER HEIGHT.

703.5.9 LINE SPACING. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE CHARACTER HEIGHT.

703.6 PICTOGRAMS. PICTOGRAMS SHALL COMPLY WITH 703.6. 703.6.1 PICTOGRAM FIELD. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES (150MM) MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD.

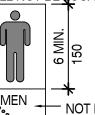


FIGURE 703.6.1 PICTOGRAM FIELD DARK-ON-LIGHT 703.6.2 FINISH AND CONTRAST. PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD.

703.6.3 TEXT DESCRIPTORS. PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD. TEXT DESCRIPTORS SHALL COMPLY WITH 703.2, 703.3, AND 703.4. 703.7 SYMBOLS OF ACCESSIBILITY. SYMBOLS OF ACCESSIBILITY SHALL COMPLY WITH

703.7 703.7.1 FINISH AND CONTRAST. SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK

SYMBOL ON A LIGHT BACKGROUND.

(A) WALL HUNG TYPE FIGURE 605.2 HEIGHT AND DEPTH OF URINALS

606 LAVATORIES AND SINKS

HIGHER OF THE RIM OR COUNTER SURFACE 34 INCHES (865 MM) MAXIMUM ABOVE THE

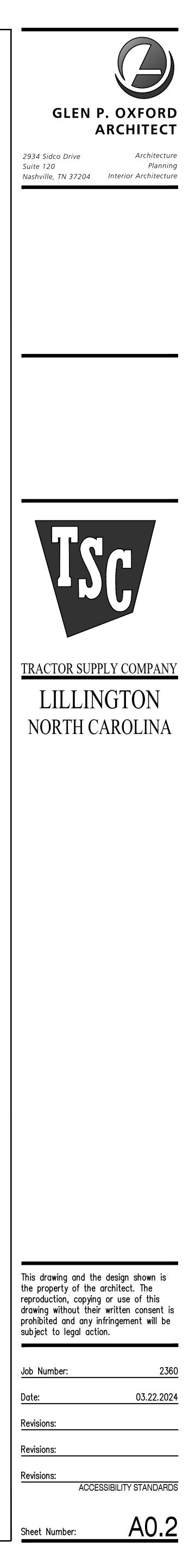
METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.

606.5 EXPOSED PIPES AND SURFACES. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.

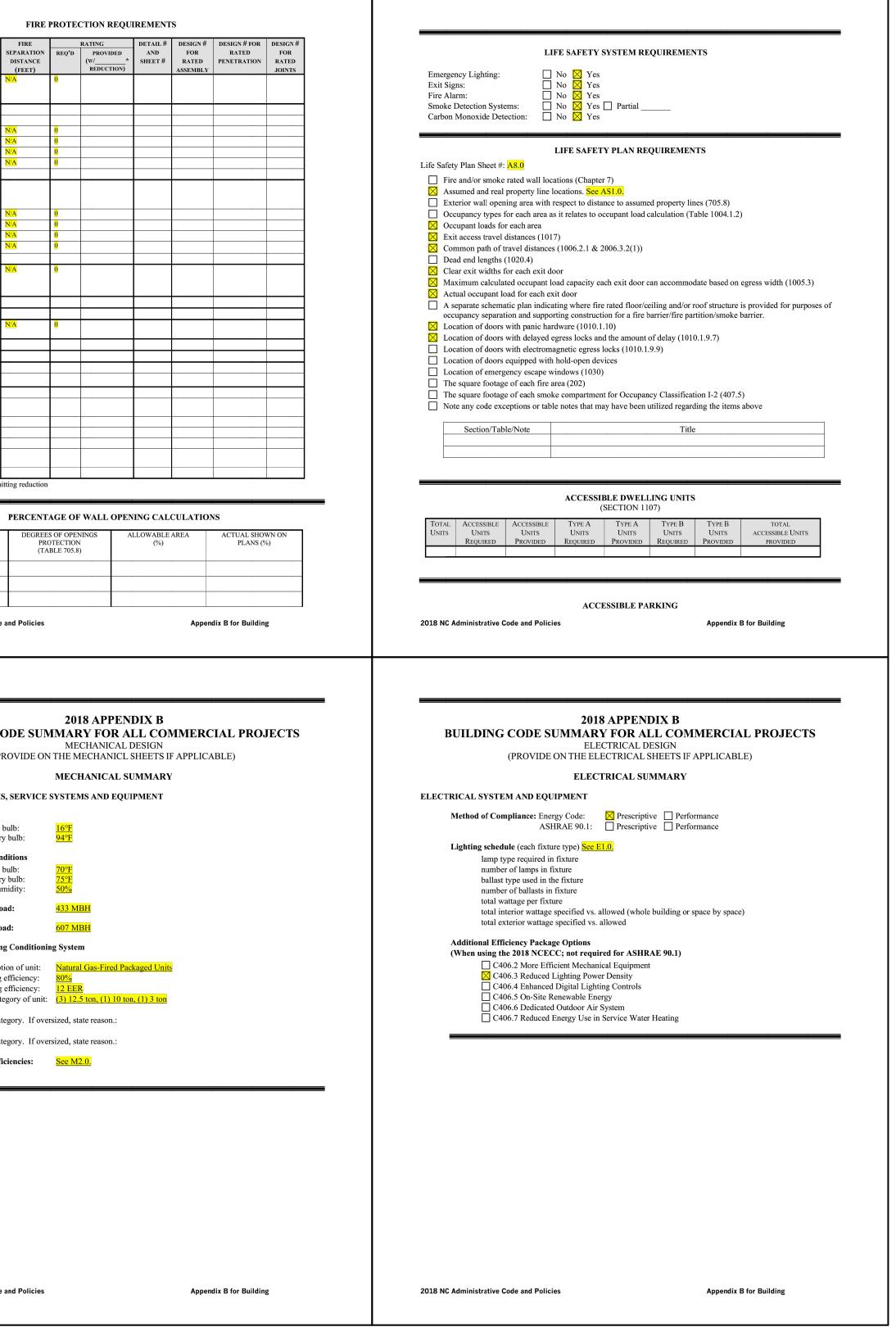
CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

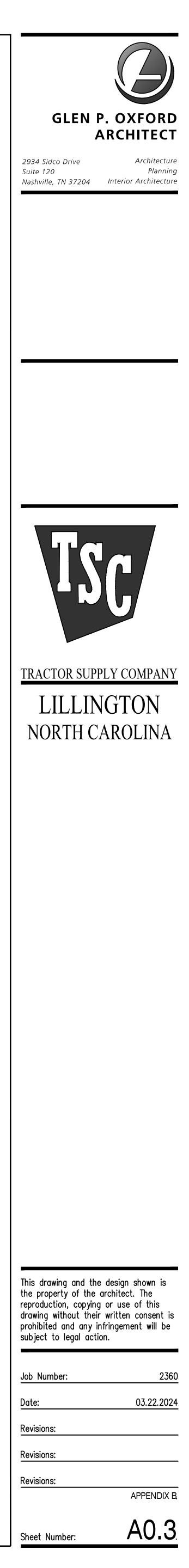
702 FIRE ALARM SYSTEMS

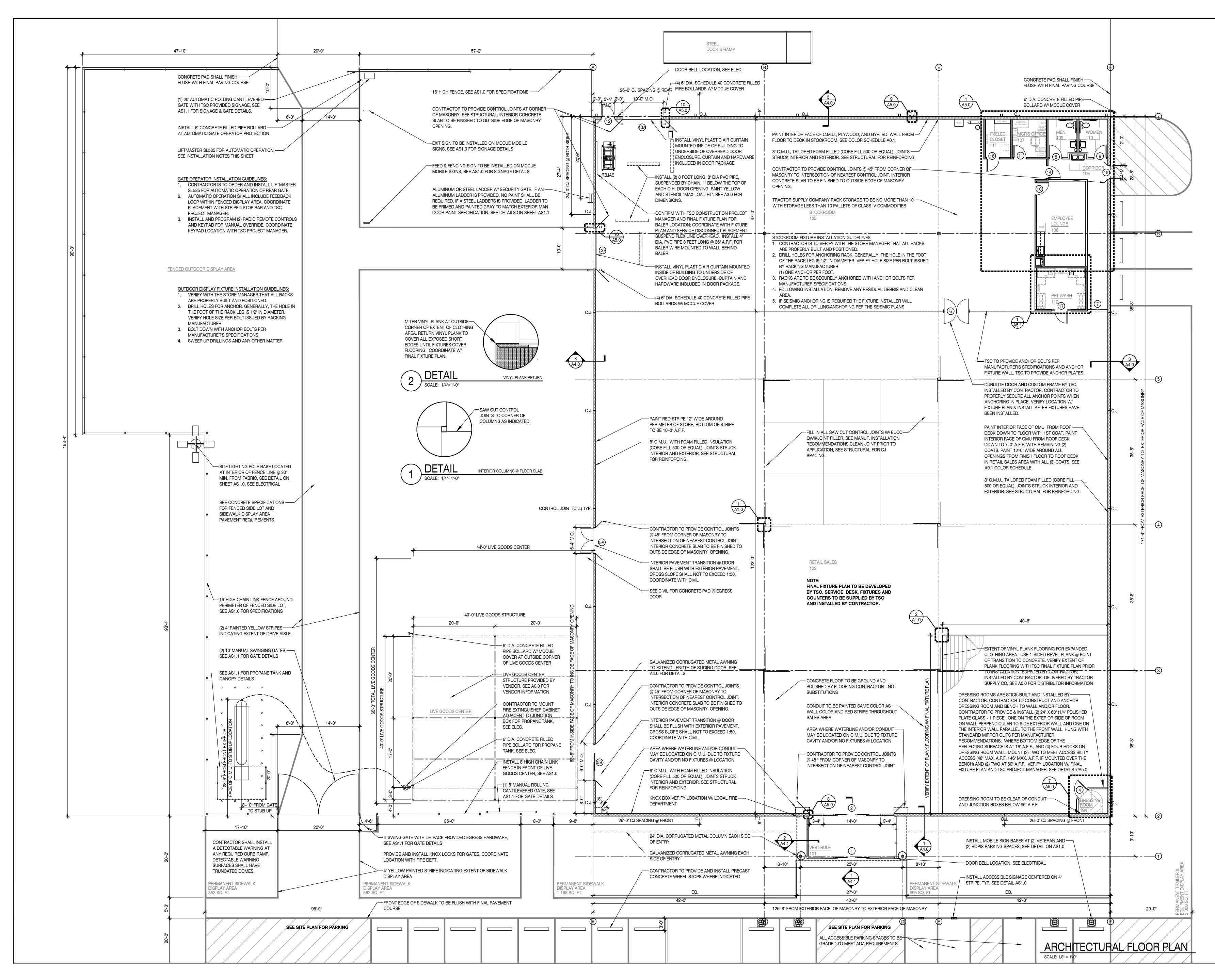
605.2 HEIGHT AND DEPTH. URINALS SHALL BE THE STALL-TYPE OR THE WALL-HUNG TYPE

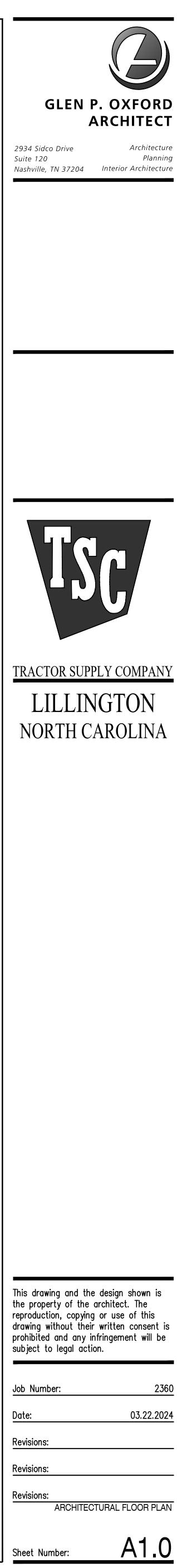


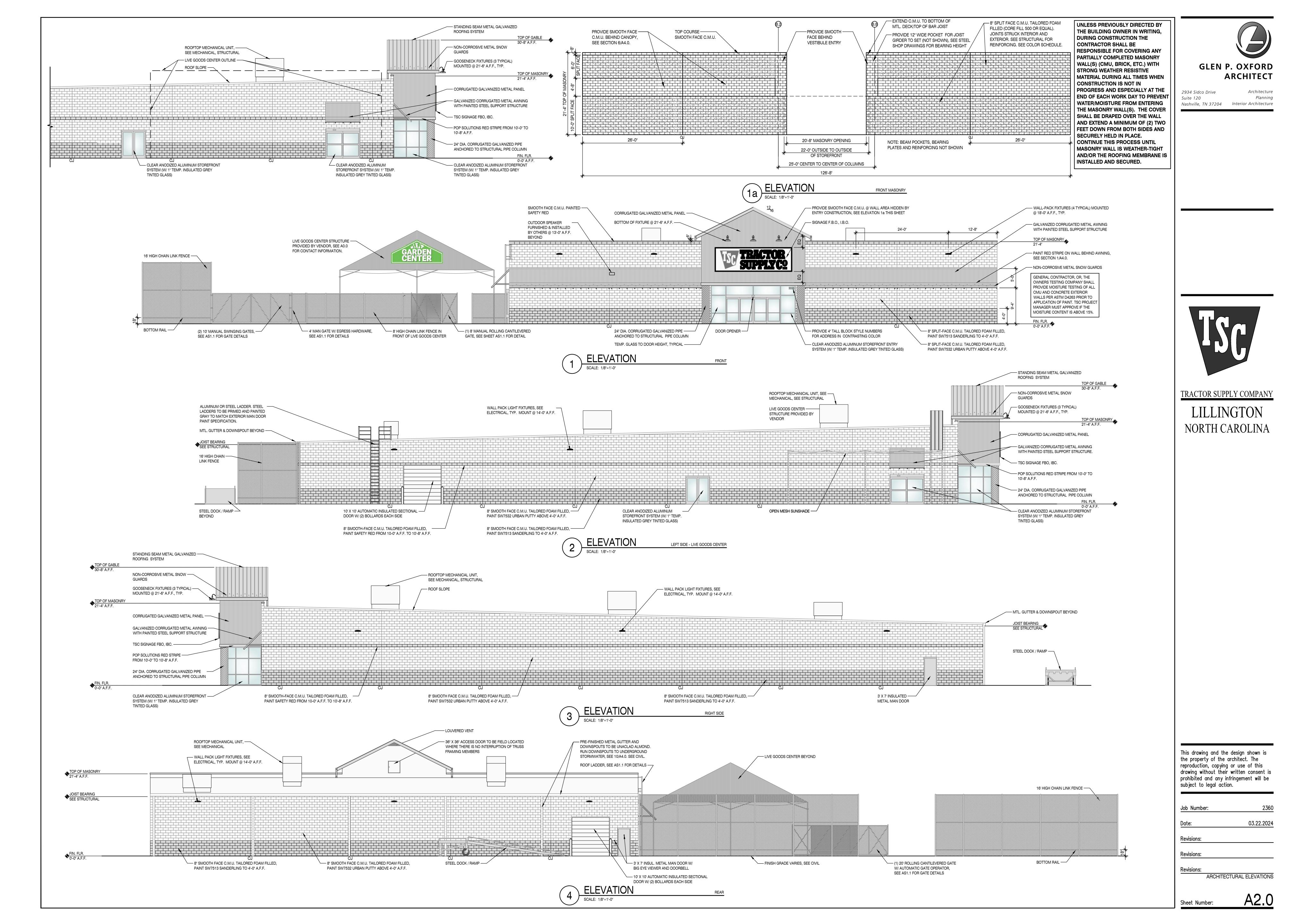
	BUILDING CODE SUMMARY POR ALL COMMERCIAL PROJECTS         BUILDING CODE SUMMERY POR ALL COMMERCIAL PROJECTS         CACEPT I LND 2-FAMILY DWELLINGS AND TOWNHOUSES         Mame of Project:       Science de following data on the building plans sheet 1 or 2)         Mame of Project:       Science de following data on the building plans sheet 1 or 2)         Mame of Project:       Science de following data on the building plans sheet 1 or 2)         Mame of Project:       Science de following data on the building plans sheet 1 or 2)         Owner/Anthorized Agent:       City/Courty       Private         Code Enforcement Jurisdiction:       City       Courty Hangt         Science and the building data on the building plans sheet 1 or 2)       State         CONTACT:       City / Courty       Private       State         Contract:       City       Courty Hangt       Courty Hangt       State         Contract:       City       Courty Hangt       State       State         Contract:       City       State       State       State       State	EXEMP EXEMP     Interpretent		including columns, girders, trusses Bearing Walls Exterior North East West South Interior Nonbearing Walls and Partitions Exterior walls and Partitions Exterior walls North East West South Interior walls and partitions Floor Construction Including supporting beams and joists Floor Ceiling Assembly Column Supporting Floors Roof Construction, including supporting beams and joists Roof Ceiling Assembly Column Supporting Roof Shaft Enclosures - Exit Shaft Enclosures - Exit Shaft Enclosures - Other Corridor Separation Occupancy/Fire Barrier Separation Party/Fire Wall Separation
Slab Heated: N/A		ENERGY IREQUIREMENTS:   The following data shall be considered minimum and any special attribute required to meet the North Carolina Exercy Conservation Code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the standard reference design vs annual energy cost for the proposed design.   Existing building envelope complies with code: No Yes (Travic Code or Standary reference):   Existing building envelope complies with code: No Yes (Travic Code or Standary reference):   Climate Zone: 34 Q 4A 5A   Method of Compliance: Energy Code ] Performance (Prescriptive (IT************************************	BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS         STRUCTURAL DESIGN         STRUCTURAL DESIGN         DESIGN LOADS:         Importance Factors:         Sons (k)         DESIGN LOADS:         DESIGN LOADS:         DESIGN COATES         Coround Snow Load:         SetSIMIC DESIGN CATEGORY:         On provide the following Seismic Design Parameters:         Occupancy Category (Table 1604.5)         Occupancy Category (Table 1604.5)         A B C C D         Provide the following Seismic Design Parameters:         Occupancy Category (Table 1604.5)         Occupancy Category (Table 1604.5)         Data Source:         Dat	BUILDING MECHANICAL SYSTE Thermal Zone winter di summer Interior design c winter di summer relative I Building heating Building cooling Mechanical Spac Unitary descr heatin coolin size o Boiler Size o List equipment c

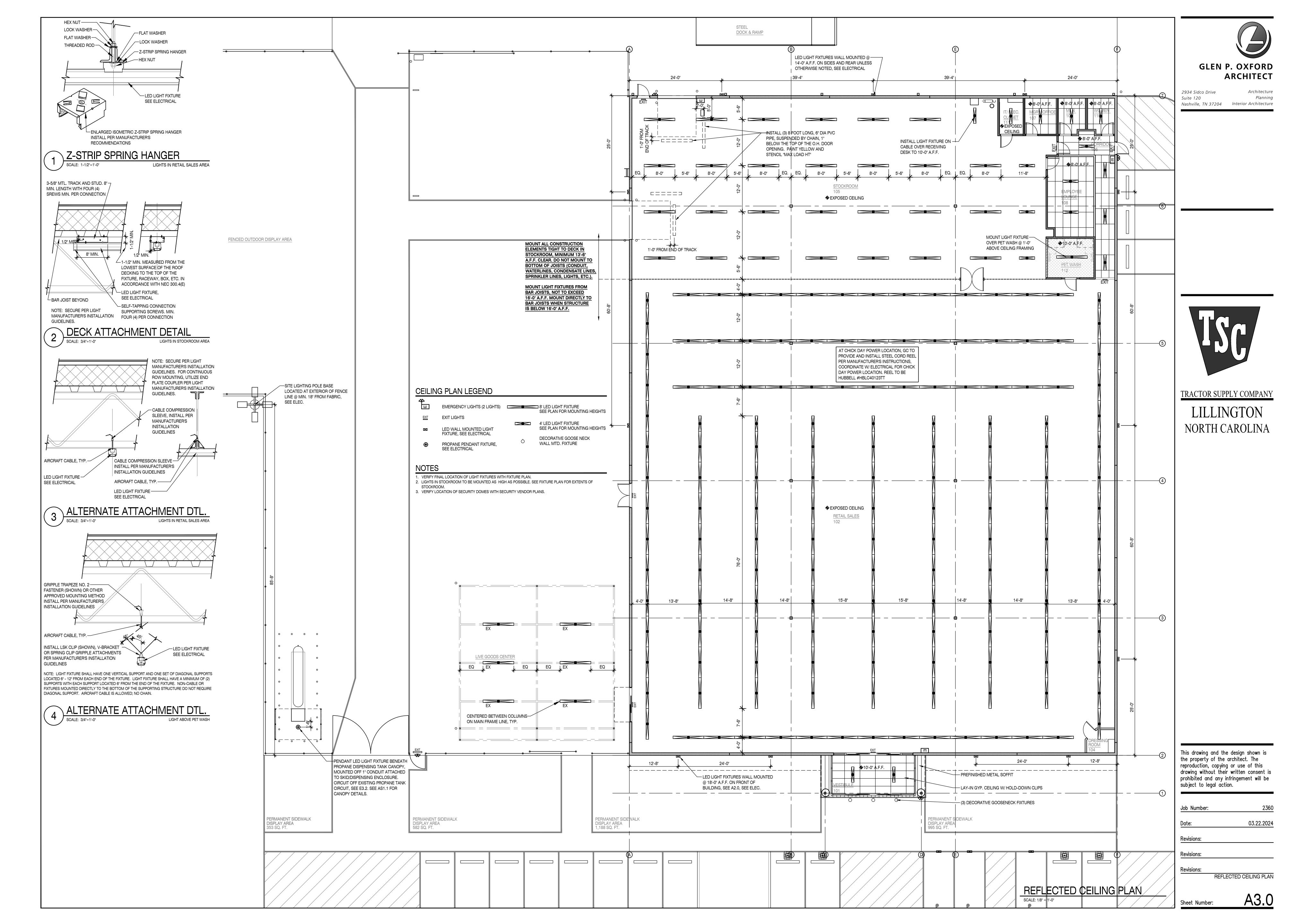


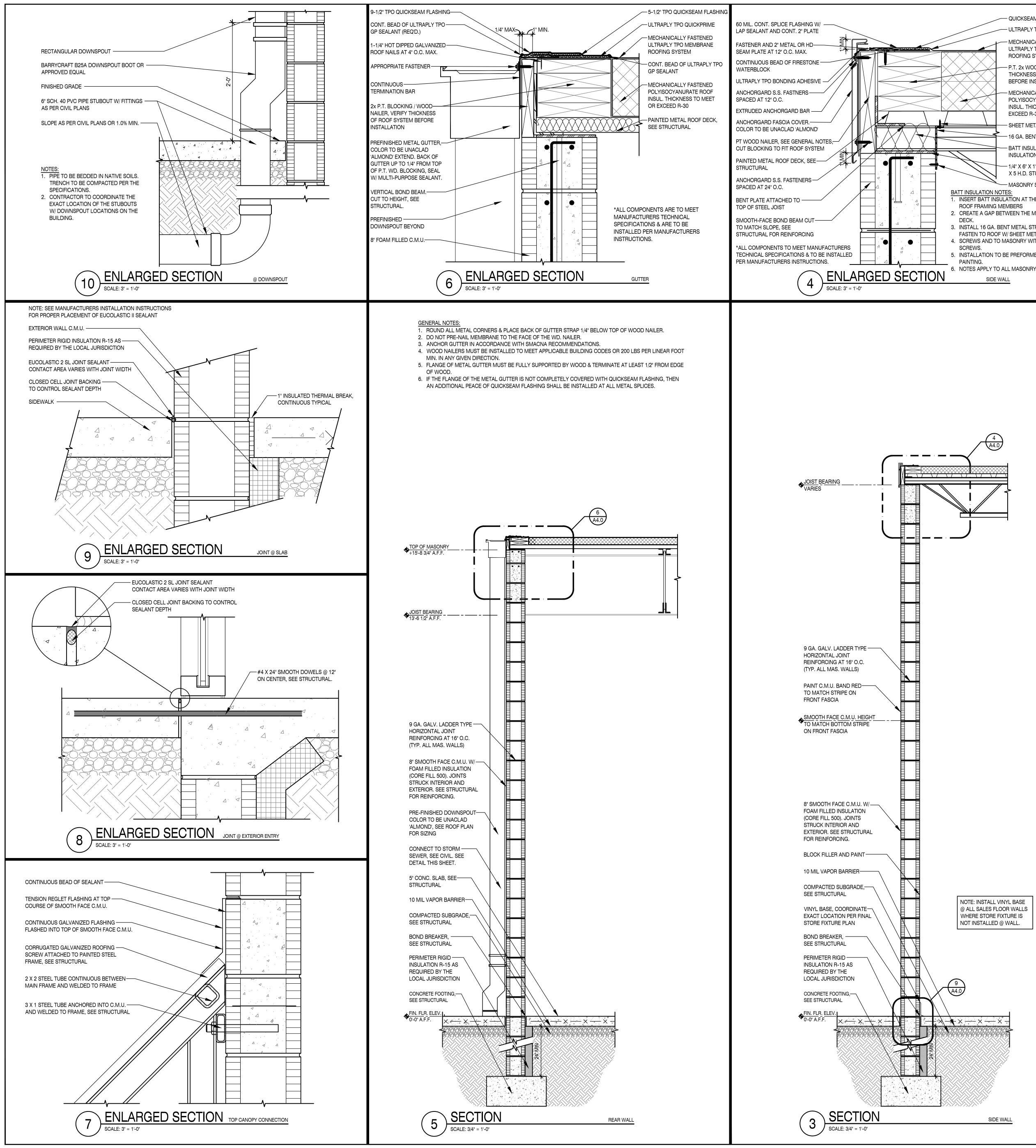




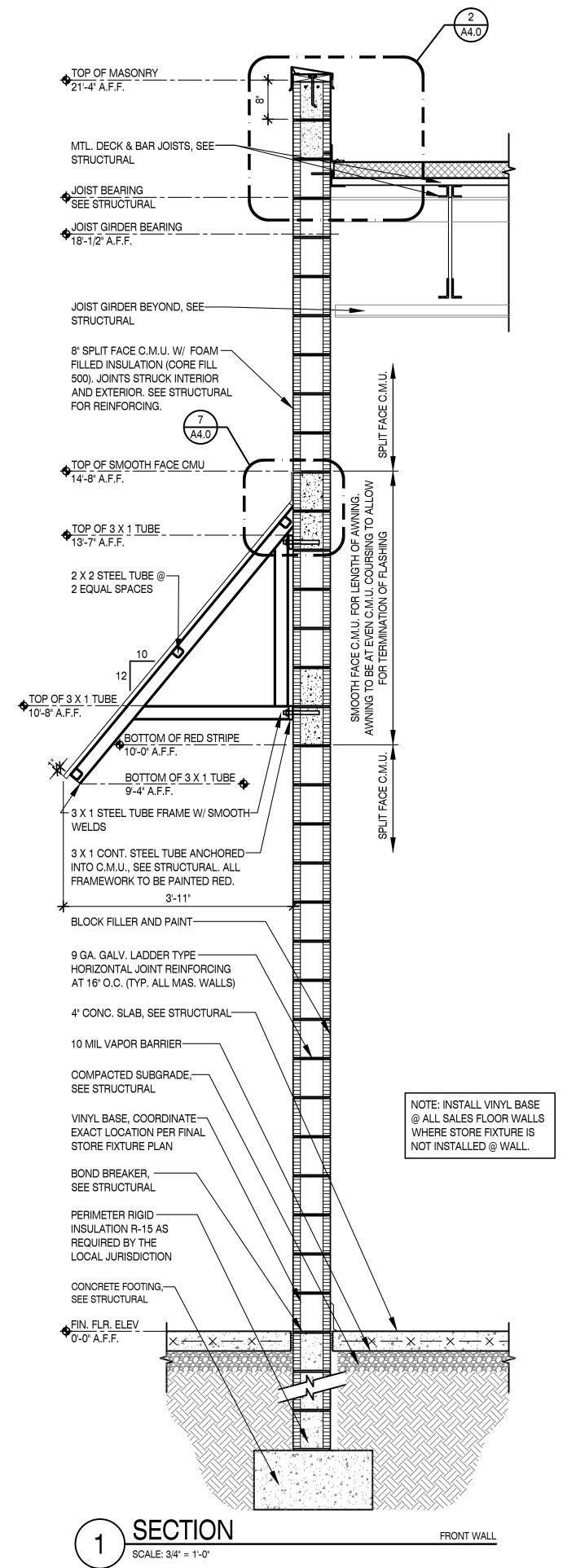


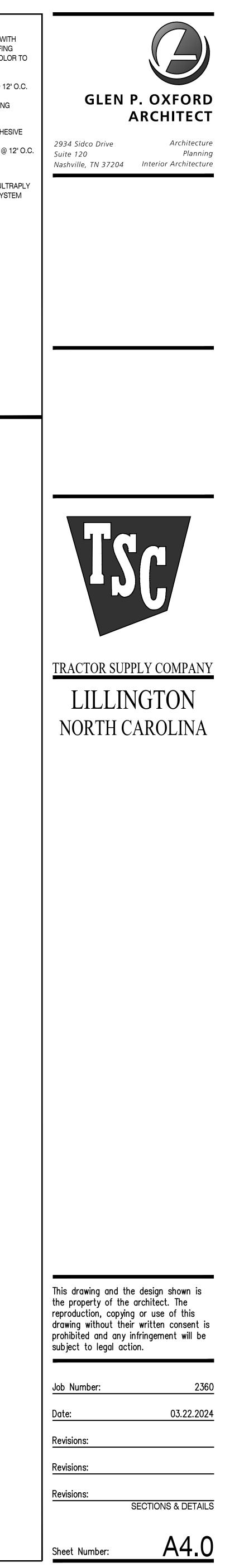


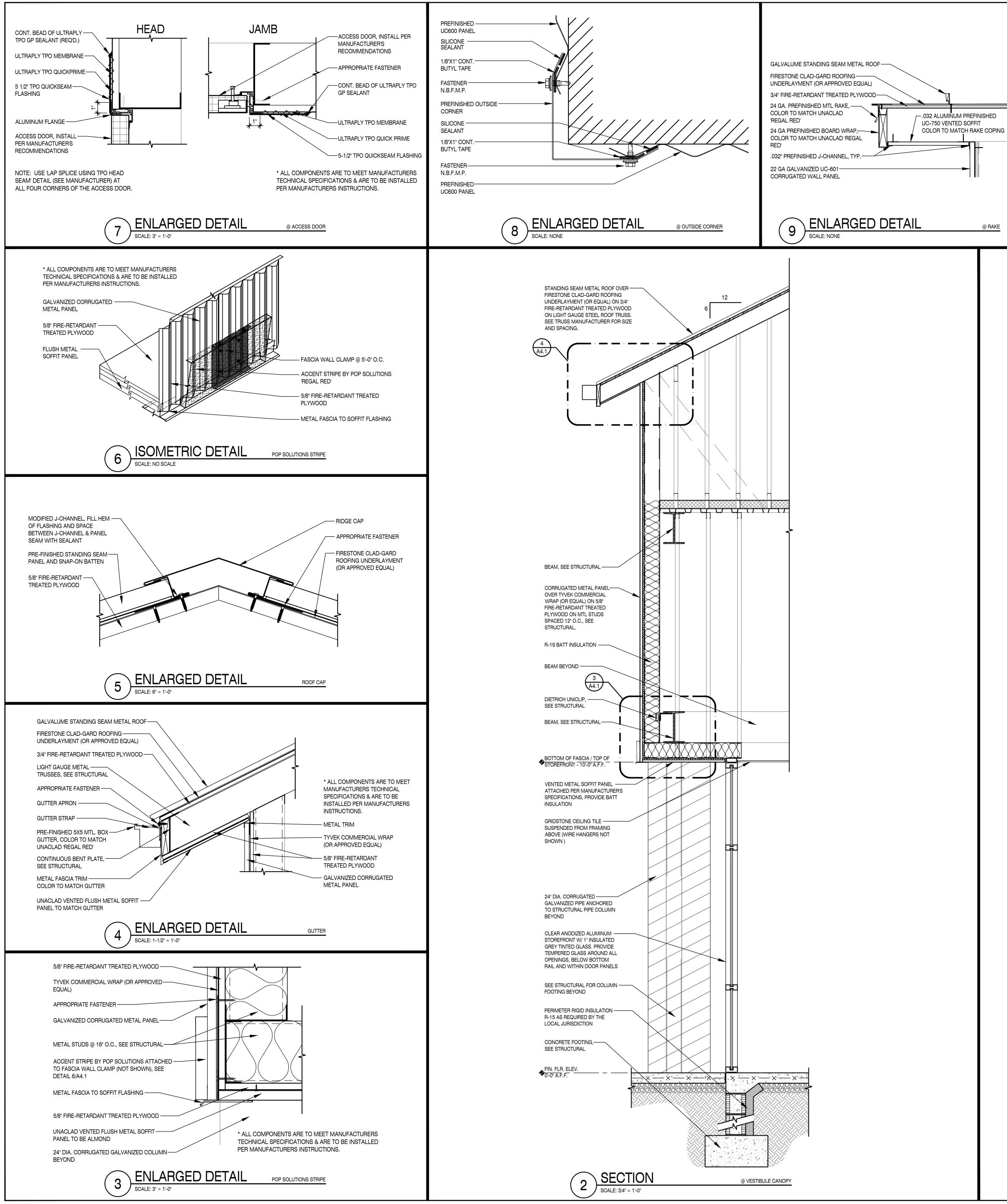




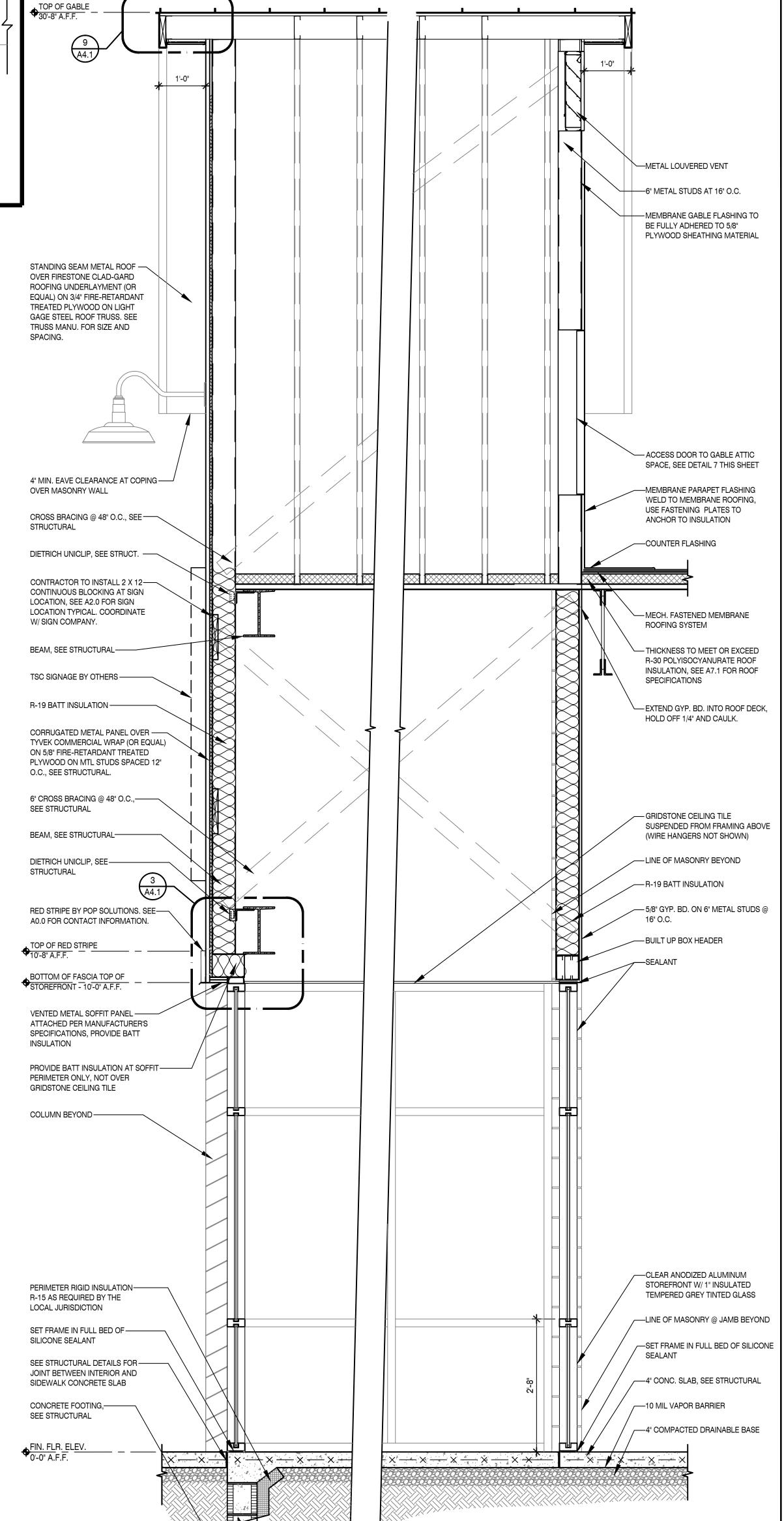
	NAILS @ 24" O.C. 1-3/4" 5d STAINLESS
QUICKSEAM RPF STRIP	STEEL RING SHANK
ULTRAPLY TPO QUICKPRIME	
MECHANICALLY FASTENED ULTRAPLY TPO MEMBRANE	
ROOFING SYSTEM	P.T. WOOD BLOCKING W/ 1/2" DIA.
P.T. 2x WOOD BLOCKING, VERIFY	
THICKNESS OF ROOF SYSTEM	
BEFORE INSTALLATION	
MECHANICALLY FASTENED	PAINTED RED @ FRONT ONLY
POLYISOCYANURATE ROOF INSUL. THICKNESS TO MEET OR	MEMBRANE PARAPET FLASHING APPROPRIATE ATTACHMENT @
EXCEED R-30	
SHEET METAL SCREW	MEMBRANE TO INSULATION $\square$
16 GA. BENT METAL STRIP	POLYISOCYANURATE ROOF INSULATION
BATT INSULATION, SEE BATT	
INSULATION NOTES	8" FOAM FILLED C.M.U.
1/4" X 6" X 1'-0" PLATE W/ (2) 1/2" Ø X 5 H.D. STUDS	8" SPLIT-FACE BOND BEAM
MASONRY SCREW BATT INSULATION NOTES:	
1. INSERT BATT INSULATION AT THE PERIMETER WHERE	SEE STRUCTURAL DRAWINGS
ROOF FRAMING MEMBERS	*ALL COMPONENTS ARE TO MEET
<ol> <li>CREATE A GAP BETWEEN THE MASONRY AND ROOF DECK.</li> </ol>	
3. INSTALL 16 GA. BENT METAL STRIP @ GAP AND	SPECIFICATIONS & ARE TO BE
FASTEN TO ROOF W/ SHEET METAL	
<ol> <li>SCREWS AND TO MASONRY WITH MASONRY SCREWS.</li> </ol>	
5. INSTALLATION TO BE PREFORMED PRIOR TO	
PAINTING. 6. NOTES APPLY TO ALL MASONRY PERIMETER WALLS.	
	ENLARGED SECTION FRONT WALL
N SIDE WALL	(2) EINLANGED SECTION FRONT WALL SCALE: 3" = 1'-0"
	$\sim$ SUALE: $3 = 1 - 0$











1 WALL SECTION SCALE: 3/4" = 1'-0"

2934 Sidco Drive Suite 120 Nashville, TN 37204 Interior Architecture

**GLEN P. OXFORD** 

ARCHITECT

Architecture

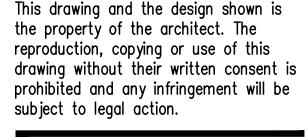
Planning

TRACTOR SUPPLY COMPANY

LILLINGTON

NORTH CAROLINA

AT SIGN

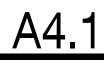


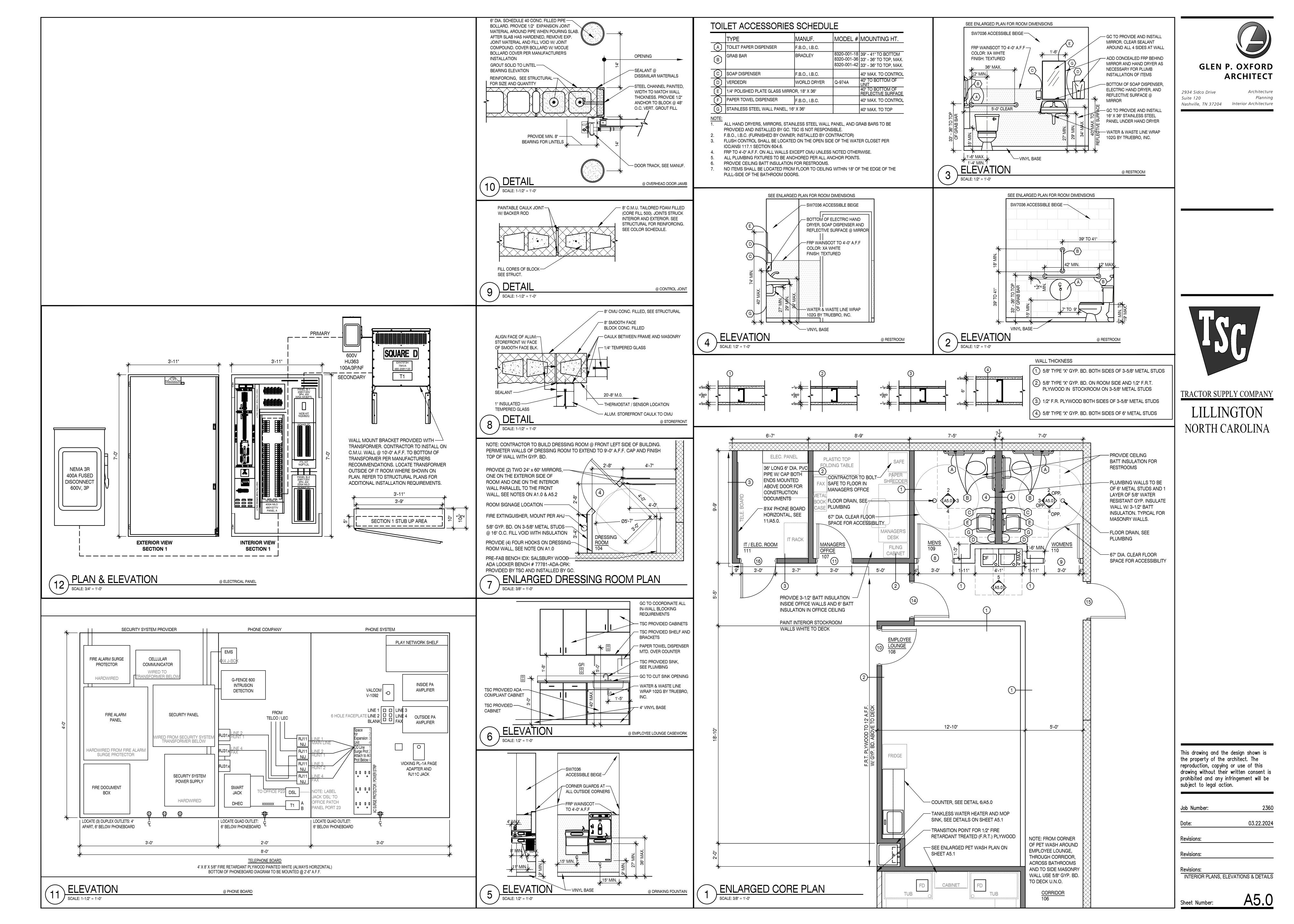
Job Number:	2360
Date:	03.22.2024
Revisions:	
Revisions:	

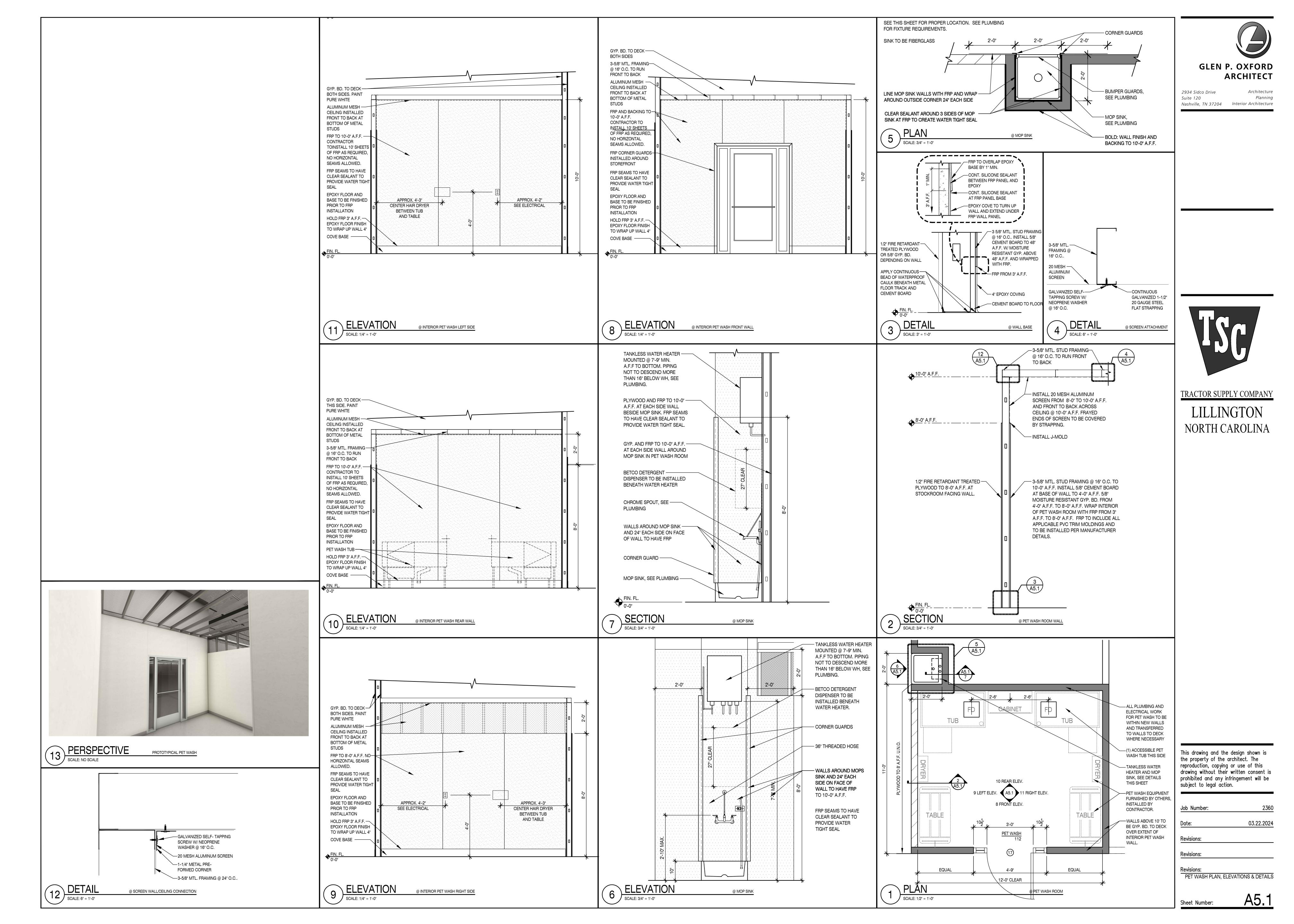
**SECTIONS & DETAILS** 

Revisions:

Sheet Number:







WHEN STRUCTURE IS BELOW 16'-0" A.F.F., SEE A3.0 FOR MOUNTING DETAILS.					
BOTTOM OF 12" PAINTED RED- STRIPE TO BE @ 10'-3" A.F.F.					
LINE OF TOP OF FIXTURES					
CLEAR ANODIZED ALUMINUM STOREFRONT ENTRY SYSTEM (W/ 1" TEMP. INSULATED GRAY TINTED GLASS)					
	1 8'-0" I	9'-0" M.O.	12'-0"		
& FINISH SCHEDULE ON A0.1. MOUNT LED FIXTURE OVER PET W ABOVE CEILING FRAMING MOUNT LED FIXTURES IN STOCKR AS TIGHT TO DECK AS POSSIBLE BOTTOM OF LOWEST CONSTRUCT	ROOM				
ELEMENT TO BE 13'-6" A.F.F. MIN. 1/2" FIRE RETARDANT TREATED PLYWOOD TO					
12' A.F.F. W/ 5/8" GYP. BD. FROM 12' TO ROOF DECK ABOVE AT OFFICE CORE.		PAINTED F	PLYWOOD & GYP. BD		
PAINT INTERIOR FACE OF C.M.U. WALL FROM FLOOR TO DECK IN STOCKROOM, SEE A0.1 FOR COLOR SCHEDULE				  •	

INSTALL (2) 8 FOOT LONG, 6" DIA PVC -----PIPES, SUSPENDED BY CHAIN, 1" BELOW THE TOP OF THE O.H. DOOR OPENING AND 12" FROM END OF TRACK. PAINT YELLOW AND STENCIL "MAX LOAD HT". PAINT INTERIOR FACE OF C.M.U. WALL-FROM FLOOR TO DECK IN STOCKROOM. SEE A0.1 FOR COLOR SCHEDULE. 10'-0" X 10'-0" SECTIONAL DOOR. GC TO-COOR. W/ OVERHEAD DOOR MANUF. FOR ADDITIONAL STRUCTURE @ DOOR. 6" CONCRETE FILLED PIPE BOLLARDS-W/ BOLLARD COVERS

24" X 60" MIRROR MOUNTED AT 18" A.F.F. OUTSIDE DRESSING ROOM PAINT INTERIOR FACE OF C.M.U. FROM ROOF DECK DOWN TO FLOOR WITH 1ST COAT. PAINT INTERIOR FACE OF C.M.U. FROM ROOF DECK DOWN TO 7'-0" A.F.F. WITH REMAINING 2 COATS. PAINT 12'-0" WIDE AROUND ALL

OPENINGS FROM FINISH FLOOR TO ROOF DECK IN SALES FLOOR AREA WITH ALL 3 COATS. SEE A0.1 FOR COLOR

STICK-BUILT DRESSING ROOM BY-CONTRACTOR. CONSTRUCT AND ANCHOR TO FLOOR AND WALL.

8 

& FINISH SCHEDULES.

LED LIGHTING FIXTURES TO -BE MOUNTED FROM BAR

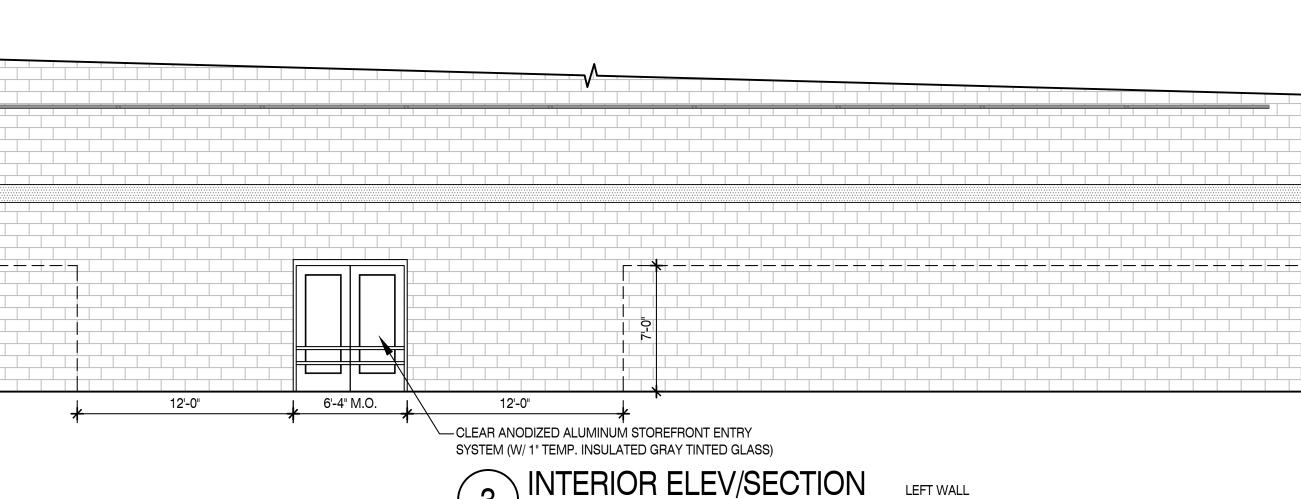
JOISTS NOT TO EXCEED

DIRECTLY TO BAR JOISTS

16'-0" A.F.F. MOUNT

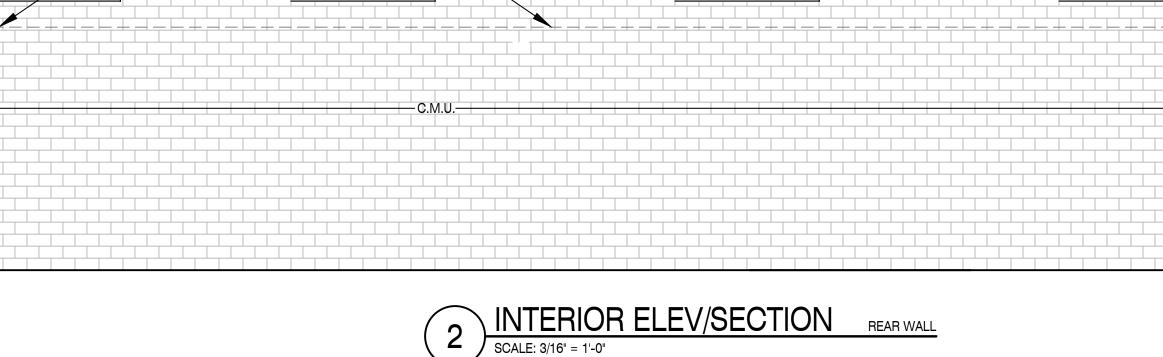
## 4 INTERIOR ELEV/SECTION RIGHT WALL SCALE: 3/16" = 1'-0"

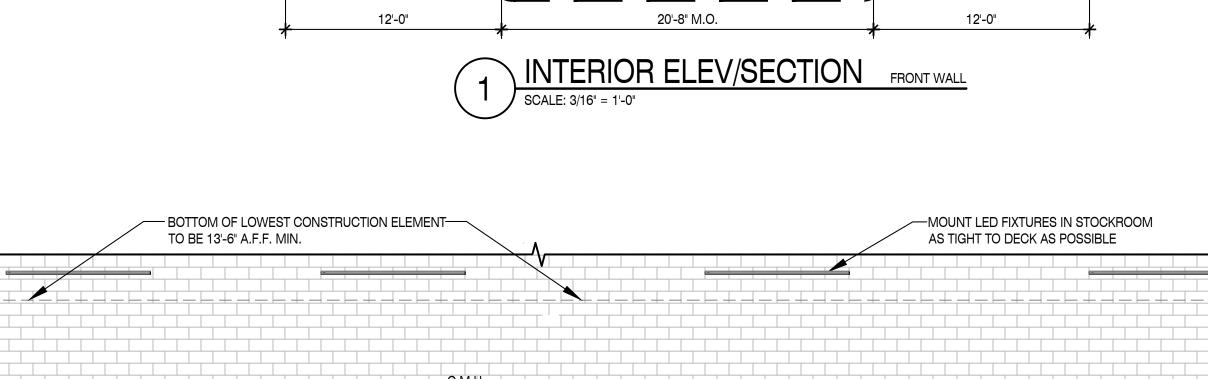
LEFT WALL

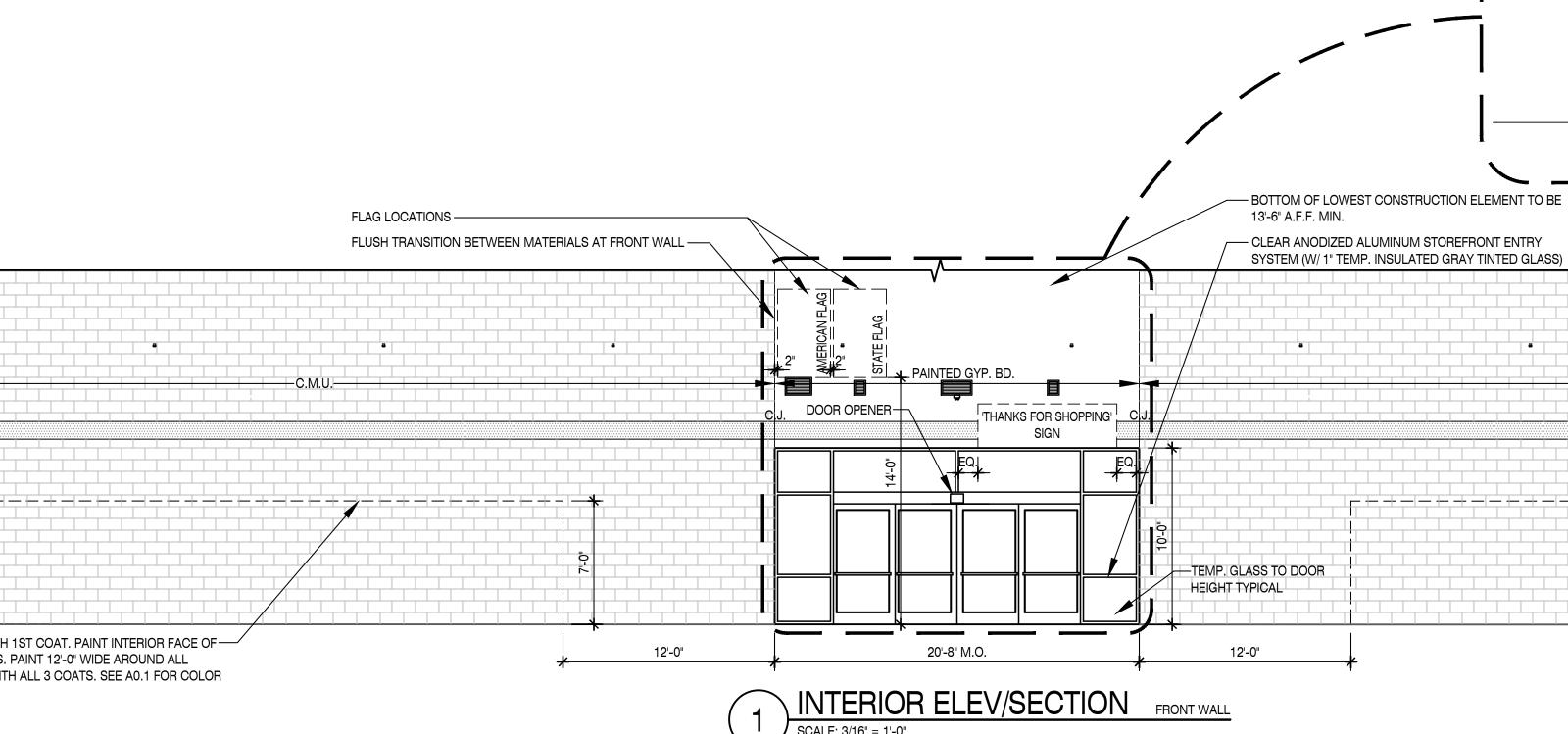


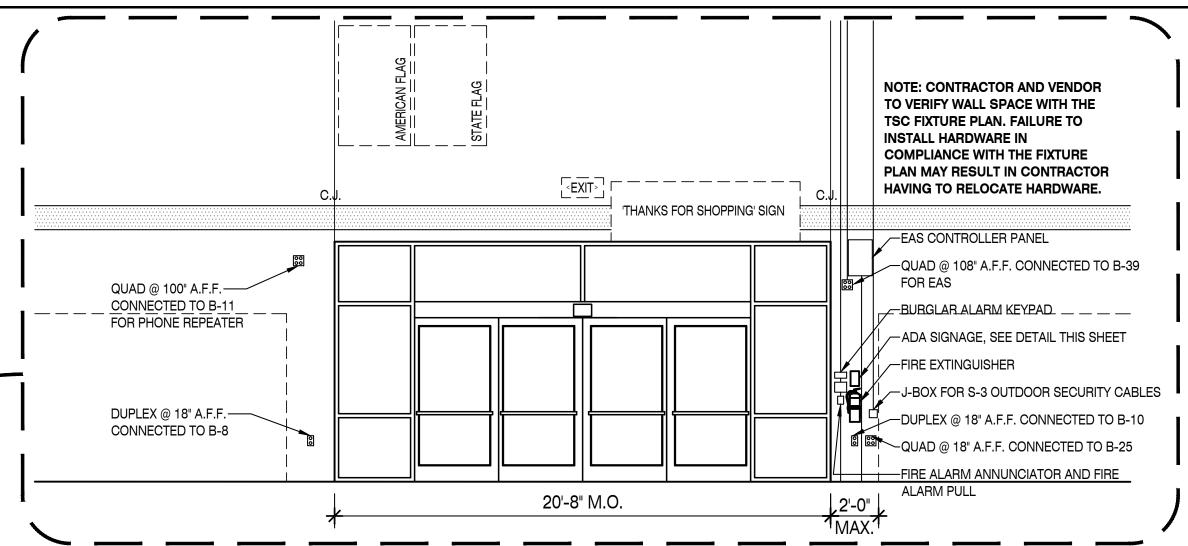
SCALE: 3/16" = 1'-0"

3









#### -BOTTOM OF 12" PAINTED RED STRIPE TO BE @ 10'-3" A.F.F.

- CONTRACTOR TO PAINT CONDUIT ON EXTERIOR WALLS IN CLOTHING AREA RUST-OLEUM UNIVERSAL HAMMERED ALL SURFACE PAINT + PRIMER BROWN

-LINE OF TOP OF FIXTURES

SIDELIGHT GLASS TO ACCEPT 6.25" X 48.85" VINYL FILM DOOR WINDOW GLASS TO ACCEPT- 30.25" X 57.825" VINYL FILM		
NARROW STILE DOOR	PAINTED GYP. BD.	BOTTOM OF 12" PAINTED RED STRIPE TO BE @ 10'-3" A.F.F. 5'-0" X 7'-10" CASED OPENING

8

MAX LOAD HT

-

-

\_\_\_\_\_

- MOUNT LED FIXTURES IN STO
AS TIGHT TO DECK AS POSSI

- BOTTOM OF LOWEST CONSTRUCTION ELEMENT TO BE 13'-6" A.F.F. MIN.

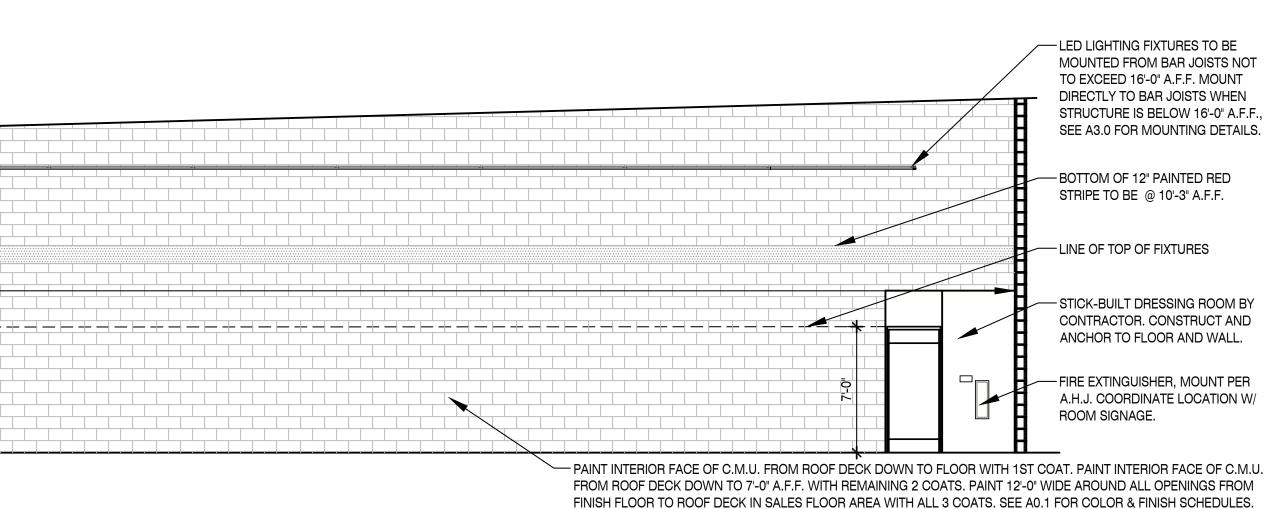
- INSTALL (2) 8 FOOT LONG, 6" DIA PVC PIPES, SUSPENDED BY CHAIN, 1" BELOW THE TOP OF THE O.H. DOOR OPENING AND 12" FROM END OF TRACK. PAINT YELLOW AND STENCIL "MAX LOAD HT".

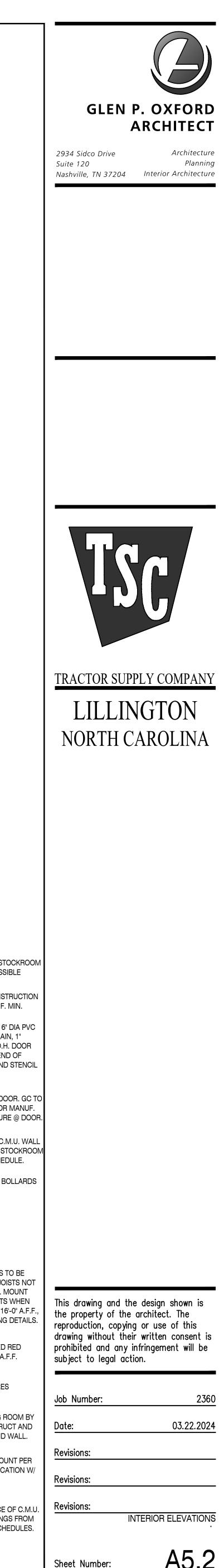
•

— 10'-0" X 10'-0" SECTIONAL DOOR. GC TO COOR. W/ OVERHEAD DOOR MANUF. FOR ADDITIONAL STRUCTURE @ DOOR

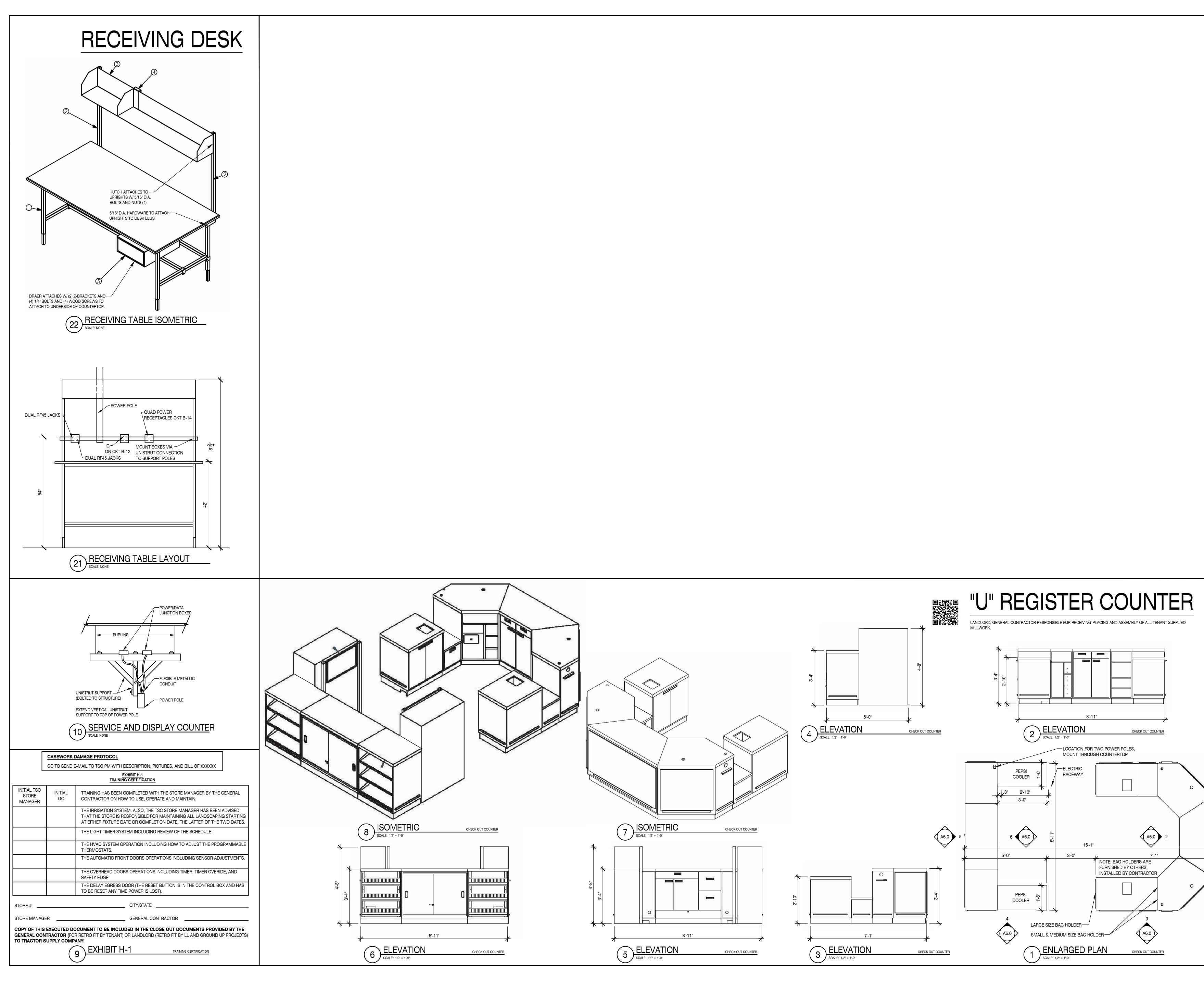
PAINT INTERIOR FACE OF C.M.U. WALL FROM FLOOR TO DECK IN STOCKROOM SEE A0.1 FOR COLOR SCHEDULE.

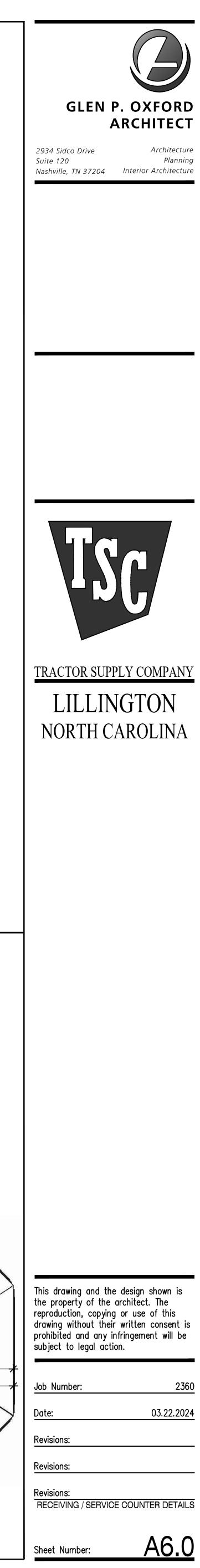
→ 6" CONCRETE FILLED PIPE BOLLARDS W/ BOLLARD COVERS

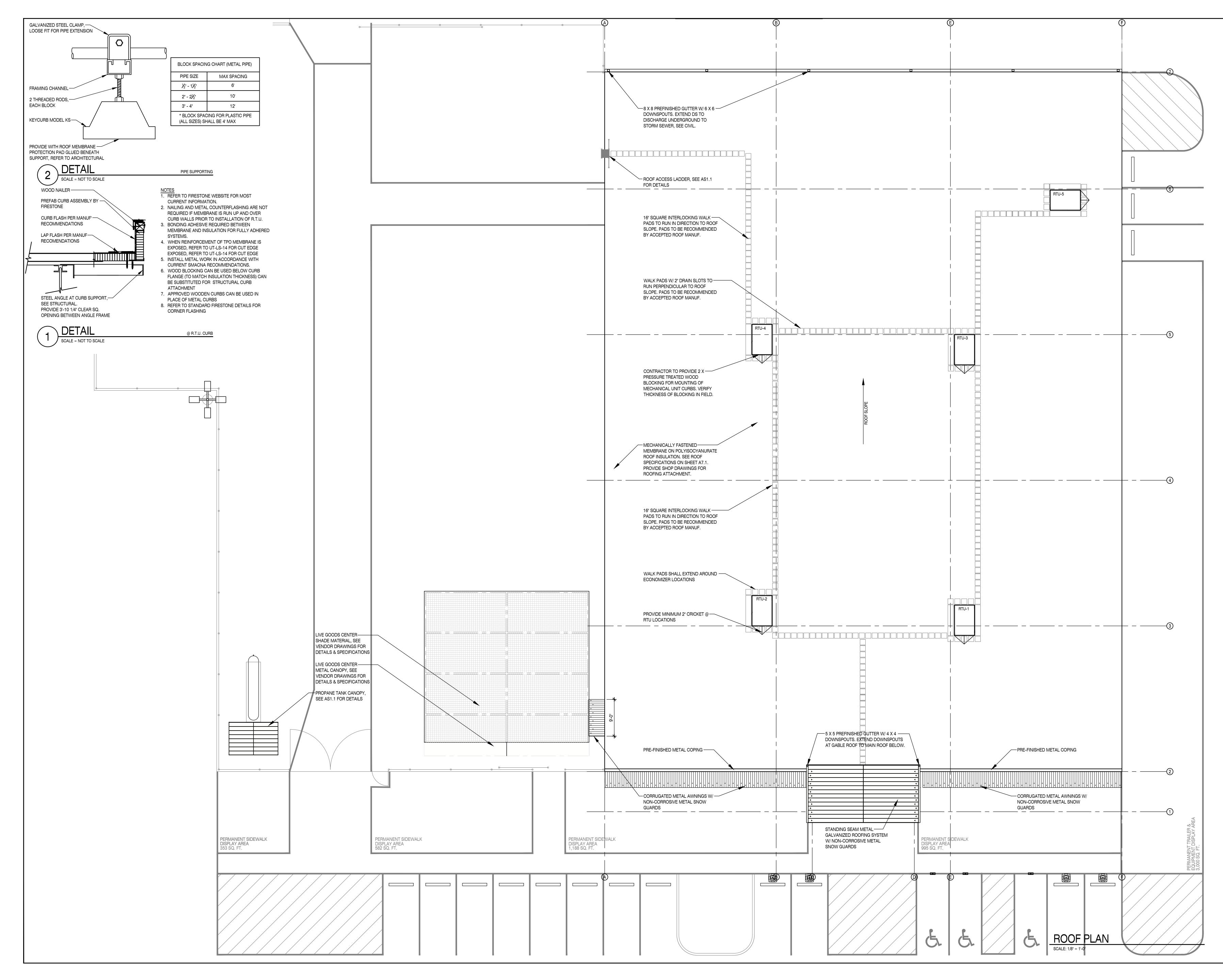


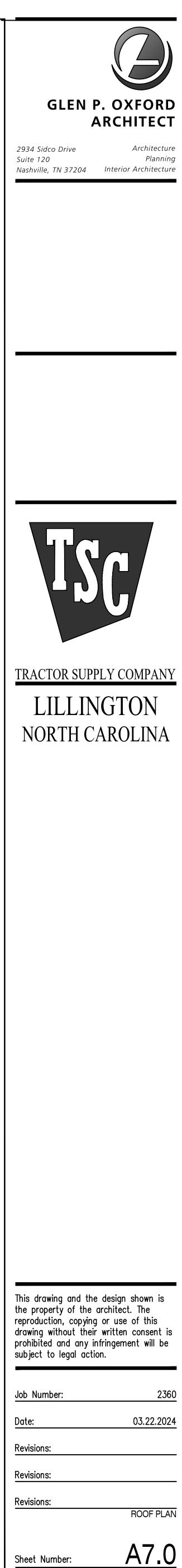


<u>A5.2</u>









SECTION 07500 **MEMBRANE ROOFING** PART 1 GENERAL 1.01 SUMMARY A. PROJECT NAME: TRACTOR SUPPLY. B. FURNISH AND INSTALL ELASTOMERIC SHEET ROOFING SYSTEM, INCLUDING: 1. ROOFING MANUFACTURER'S REQUIREMENTS FOR THE SPECIFIED WARRANTY. 2. PREPARATION OF ROOFING SUBSTRATES. 3. WOOD NAILERS FOR ROOFING ATTACHMENT. 4. INSULATION. 5. ELASTOMERIC MEMBRANE ROOFING. METAL ROOF EDGING AND COPINGS 7. FLASHINGS. 8. WALKWAY PADS. 9. OTHER ROOFING-RELATED ITEMS SPECIFIED OR INDICATED ON THE DRAWINGS OR OTHERWISE NECESSARY TO PROVIDE A COMPLETE WEATHERPROOF ROOFING SYSTEM. C. DISPOSAL OF DEMOLITION DEBRIS AND CONSTRUCTION WASTE IS THE RESPONSIBILITY OF CONTRACTOR. PERFORM DISPOSAL IN MANNER COMPLYING WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. D. COMPLY WITH THE PUBLISHED RECOMMENDATIONS AND INSTRUCTIONS OF THE ROOFING MEMBRANE MANUFACTURER, AT HTTP://MANUAL.FSBP.COM. E. COMMENCEMENT OF WORK BY THE CONTRACTOR SHALL CONSTITUTE ACKNOWLEDGEMENT BY THE CONTRACTOR THAT THIS SPECIFICATION CAN BE SATISFACTORILY EXECUTED, UNDER THE PROJECT CONDITIONS AND WITH ALL NECESSARY PREREQUISITES FOR WARRANTY ACCEPTANCE BY ROOFING MEMBRANE MANUFACTURER. NO MODIFICATION OF THE CONTRACT SUM WILL BE MADE FOR FAILURE TO ADEQUATELY EXAMINE THE CONTRACT DOCUMENTS OR THE PROJECT CONDITIONS. 1.02 REFERENCES A. REFERENCED STANDARDS: THESE STANDARDS FORM PART OF THIS SPECIFICATION ONLY TO THE EXTENT THEY ARE REFERENCED AS SPECIFICATION REQUIREMENTS. B. ASTM C 1289 - STANDARD SPECIFICATION FOR FACED RIGID CELLULAR POLYISOCYANURATE THERMAL INSULATION BOARD; 2004. C. ASTM C 1549 - STANDARD TEST METHOD FOR DETERMINATION OF SOLAR REFLECTANCE NEAR AMBIENT TEMPERATURE USING A PORTABLE SOLAR REFLECTOMETER; 2004. D. ASTM D 751 - STANDARD TEST METHODS FOR COATED FABRICS E. ASTM D 1079 - STANDARD TERMINOLOGY RELATING TO ROOFING, WATERPROOFING, AND BITUMINOUS MATERIALS; 2005A. F. ASTM D 6878 - STANDARD SPECIFICATION FOR THERMOPLASTIC POLYOLEFIN BASED SHEET ROOFING; 2003. G. CAN-ULC-S770 - STANDARD TEST METHOD DETERMINATION OF L-TERM THERMAL RESISTANCE OF CLOSED-CELL THERMAL INSULATING FOAMS; 2003. H. FM 1-28 - DESIGN WIND LOADS; FACTORY MUTUAL SYSTEM; 2002. I. FM 1-29 - ROOF DECK SECUREMENT AND ABOVE DECK ROOF COMPONENTS; FACTORY MUTUAL SYSTEM; 2005. K. SPRI ES-1 - WIND DESIGN STANDARD FOR EDGE SYSTEMS USED WITH LOW SLOPE ROOFING SYSTEMS; 2003. (ANSI/SPRI ES-1). 1.03 DEFINITIONS A. ROOFING TERMINOLOGY: REFER TO ASTM D 1079 FOR DEFINITION OF TERMS RELATED TO ROOFING WORK NOT OTHERWISE DEFINED IN THE SECTION. B. LTTR: LONG TERM THERMAL RESISTANCE, AS DEFINED BY CAN-ULC S770. 1.04 SUBMITTALS A. PRODUCT DATA: PROVIDE MEMBRANE MANUFACTURER'S PRINTED DATA SUFFICIENT TO SHOW THAT ALL COMPONENTS OF ROOFING SYSTEM, INCLUDING INSULATION AND FASTENERS, COMPLY WITH THE SPECIFIED REQUIREMENTS AND WITH THE MEMBRANE MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS FOR THE SYSTEM TYPE SPECIFIED; INCLUDE DATA FOR EACH PRODUCT USED IN CONJUNCTION WITH ROOFING MEMBRANE. 2. WHERE UL OR FM REQUIREMENTS ARE SPECIFIED, PROVIDE DOCUMENTATION THAT SHOWS THAT THE ROOFING SYSTEM TO BE INSTALLED IS UL-CLASSIFIED OR FM-APPROVED, AS APPLICABLE; INCLUDE DATA ITEMIZING THE COMPONENTS OF THE CLASSIFIED OR APPROVED SYSTEM. 3. INSTALLATION INSTRUCTIONS: PROVIDE MANUFACTURER'S INSTRUCTIONS TO INSTALLER, MARKED UP TO SHOW EXACTLY HOW ALL COMPONENTS WILL BE INSTALLED; WHERE INSTRUCTIONS ALLOW INSTALLATION OPTIONS, CLEARLY INDICATE WHICH OPTION WILL BE USED. B. SAMPLES: SUBMIT SAMPLES OF EACH PRODUCT TO BE USED. C. SHOP DRAWINGS: PROVIDE: 1. THE ROOF MEMBRANE MANUFACTURER'S STANDARD DETAILS CUSTOMIZED FOR THIS PROJECT FOR ALL RELEVANT CONDITIONS, INCLUDING FLASHINGS, BASE TIE-INS, ROOF EDGES, TERMINATIONS, EXPANSION JOINTS, PENETRATIONS, AND DRAINS. D. SPECIMEN WARRANTY: SUBMIT PRIOR TO STARTING WORK. E. PRE-INSTALLATION NOTICE: COPY TO SHOW THAT MANUFACTURER'S REQUIRED PRE INSTALLATION NOTICE (PIN) HAS BEEN ACCEPTED AND APPROVED BY THE MANUFACTURER. F. EXECUTED WARRANTY. 1.05 QUALITY ASSURANCE A. APPLICATOR QUALIFICATIONS: ROOFING INSTALLER SHALL HAVE THE FOLLOWING: 1. CURRENT FIRESTONE MASTER CONTRACTOR STATUS. 2. AT LEAST FIVE YEARS EXPERIENCE IN INSTALLING SPECIFIED SYSTEM. 1.06 DELIVERY, STORAGE AND HANDLING A. DELIVER PRODUCTS IN MANUFACTURER'S ORIGINAL CONTAINERS, DRY AND UNDAMAGED, WITH SEALS AND LABELS INTACT AND LEGIBLE. B. STORE MATERIALS CLEAR OF GROUND AND MOISTURE WITH WEATHER PROTECTIVE COVERING. C. KEEP COMBUSTIBLE MATERIALS AWAY FROM IGNITION SOURCES. 1.07 WARRANTY A. COMPLY WITH ALL WARRANTY PROCEDURES REQUIRED BY MANUFACTURER, INCLUDING NOTIFICATIONS, SCHEDULING, AND INSPECTIONS. B. WARRANTY: FIRESTONE 15 YEAR RED SHIELD LIMITED WARRANTY COVERING MEMBRANE, ROOF INSULATION, AND MEMBRANE ACCESSORIES. LIMIT OF LIABILITY: NO DOLLAR LIMITATION. 2. SCOPE OF COVERAGE: REPAIR LEAKS IN THE ROOFING SYSTEM CAUSED BY: a. ORDINARY WEAR AND TEAR OF THE ELEMENTS. MANUFACTURING DEFECT IN FIRESTONE BRAND MATERIALS. c. DEFECTIVE WORKMANSHIP USED TO INSTALL THESE MATERIALS. d. DAMAGE DUE TO WINDS UP TO 55 MPH (88 KM/H). 3. NOT COVERED: a. DAMAGE DUE TO WINDS IN EXCESS OF 55 MPH (88 KM/H). b. DAMAGE DUE HURRICANES OR TORNADOES. c. HAIL. d. INTENTIONAL DAMAGE. e. UNINTENTIONAL DAMAGE DUE TO NORMAL ROOFTOP INSPECTIONS, MAINTENANCE, OR SERVICE. PART 2 PRODUCTS 2.01 MANUFACTURERS A. ACCEPTABLE MANUFACTURER - ROOFING SYSTEM: FIRESTONE BUILDING PRODUCTS CO., INDIANAPOLIS, IN. WWW.FIRESTONEBPCO.COM. 1. ROOFING SYSTEMS MANUFACTURED BY OTHERS ARE ACCEPTABLE PROVIDED THE ROOFING SYSTEM IS COMPLETELY EQUIVALENT IN MATERIALS AND WARRANTY CONDITIONS AND THE MANUFACTURER MEETS THE FOLLOWING QUALIFICATIONS: a. SPECIALIZING IN MANUFACTURING THE ROOFING SYSTEM TO BE PROVIDED. MINIMUM TEN YEARS OF EXPERIENCE MANUFACTURING THE ROOFING SYSTEM TO BE PROVIDED. c. ABLE TO PROVIDE A NO DOLLAR LIMIT, SINGLE SOURCE ROOF SYSTEM WARRANTY THAT IS BACKED BY CORPORATE ASSETS IN EXCESS OF ONE BILLION DOLLARS. d. ISO 9002 CERTIFIED. e. ABLE TO PROVIDE ISOCYANURATE INSULATION THAT IS PRODUCED IN OWN FACILITIES. f. ROOFING SYSTEMS MANUFACTURED BY THE COMPANIES LISTED BELOW ARE ACCEPTABLE PROVIDED THEY ARE COMPLETELY EQUIVALENT IN MATERIALS AND WARRANTY CONDITIONS: 1) VERSICO 2) CARLISLE SYNTEC SYSTEMS. 3) GAF B. MANUFACTURER OF INSULATION AND COVER BOARDS: SAME MANUFACTURER AS ROOF MEMBRANE. . C. MANUFACTURER OF METAL ROOF EDGING: SAME MANUFACTURER AS ROOF MEMBRANE. 1. METAL ROOF EDGING PRODUCTS BY OTHER MANUFACTURERS ARE NOT ACCEPTABLE D. SUBSTITUTION PROCEDURES: SEE INSTRUCTIONS TO BIDDERS. 1. SUBMIT EVIDENCE THAT THE PROPOSED SUBSTITUTION COMPLIES WITH THE SPECIFIED REQUIREMENTS.

2.02 ROOFING SYSTEM DESCRIPTION

A. ROOFING SYSTEM: 1. MEMBRANE: THERMOPLASTIC OLEFIN (TPO).

- 2. THICKNESS: AS SPECIFIED ELSEWHERE.
- MEMBRANE ATTACHMENT: MECHANICALLY ATTACHED WITH PLATES IN SEAMS.
- 4. COMPLY WITH APPLICABLE LOCAL BUILDING CODE REQUIREMENTS. 5. PROVIDE ASSEMBLY HAVING UNDERWRITERS LABORATORIES, INC. (UL) CLASS A FIRE HAZARD CLASSIFICATION.
- 6. PROVIDE ASSEMBLY COMPLYING WITH FACTORY MUTUAL CORPORATION (FM) ROOF ASSEMBLY CLASSIFICATION, FM DS 1-28
- AND 1-29. AND MEETING MINIMUM REQUIREMENTS OF FM 1-75 WIND UPLIFT RATING.
- PROVIDE ASSEMBLY TO MEET THE FOLLOWING MINIMUM DESIGN UPLIFT-RESISTANCE CAPACITIES: -SEE STRUCTURAL SHEET S5.0.

B. INSULATION: 1. TOTAL R VALUE: 30.0, MINIMUM.

- 2. MAXIMUM BOARD THICKNESS: 3.25 INCHES (63 MM); USE AS MANY LAYERS AS NECESSARY; STAGGER JOINTS IN ADJACENT
- 3. BASE LAYER: POLYISOCYANURATE FOAM BOARD, NON-COMPOSITE.
- a. ATTACHMENT: LOOSE LAID, NO ATTACHMENT. 4. TOP LAYER: POLYISOCYANURATE FOAM BOARD, NON-COMPOSITE.
- a. ATTACHMENT: MECHANICAL FASTENING.

2.03 TPO MEMBRANE MATERIALS (THIS PROJECT REQUIRES 45 MIL. MEMBRANE) A. MEMBRANE: FLEXIBLE, HEAT WELDABLE SHEET COMPOSED OF THERMOPLASTIC POLYOLEFIN POLYMER AND ETHYLENE PROPYLENE RUBBER; COMPLYING WITH ASTM D 6878, WITH POLYESTER WEFT INSERTED REINFORCEMENT AND THE FOLLOWING ADDITIONAL CHARACTERISTICS: 1. THICKNESS: 0.060 INCH (1.14 MM) PLUS/MINUS 10 PERCENT, WITH COATING THICKNESS OVER REINFORCEMENT OF 0.015 INCH (0.38 MM) FOR 45 MIL PLUS/MINUS 10 PERCENT. REFER TO ASTM D7635 STANDARD TEST METHOD FOR

MEASUREMENT OF THICKNESS OF COATINGS OVER FABRIC REINFORCEMENT. 2. SHEET WIDTH: PROVIDE SHEETS OF WIDTH NECESSARY TO ACCOMMODATE BATTEN SPACING REQUIRED BY MANUFACTURER FOR PROJECT CONDITIONS. 3. PUNCTURE RESISTANCE: 265 LBF (1174 N), MINIMUM, WHEN TESTED IN ACCORDANCE FTM 101C METHOD 2031.

4. SOLAR REFLECTANCE: 0.79, MINIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM C 1549. 5. COLOR: WHITE. 6. ACCEPTABLE PRODUCT: ULTRAPLY TPO BY FIRESTONE.

B. MEMBRANE FASTENERS: TYPE AND SIZE AS REQUIRED BY ROOF MEMBRANE MANUFACTURER FOR ROOFING SYSTEM AND WARRANTY TO BE PROVIDED; USE ONLY FASTENERS FURNISHED BY ROOF MEMBRANE MANUFACTURER. C. CURB AND PARAPET FLASHING: SAME MATERIAL AS MEMBRANE, WITH ENCAPSULATED EDGE WHICH ELIMINATES NEED FOR SEAM SEALING THE FLASHING-TO-ROOF SPLICE; PRECUT TO 18 INCHES (457 MM) WIDE. D. FORMABLE FLASHING: NON-REINFORCED, FLEXIBLE, HEAT WELDABLE SHEET, COMPOSED OF THERMOPLASTIC POLYOLEFIN POLYMER AND ETHYLENE PROPYLENE RUBBER.

1. THICKNESS: 0.045 INCH (1.14 MM) PLUS/MINUS 10 PERCENT. 2. TENSILE STRENGTH: 1550 PSI (10.7 MPA), MINIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM D 638 AFTER HEAT

3. ELONGATION AT BREAK: 650 PERCENT, MINIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM D 638 AFTER HEAT

4. TEARING STRENGTH: 12 LBF (53 N), MINIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM D 1004 AFTER HEAT AGING. 5. COLOR: WHITE. 6. ACCEPTABLE PRODUCT: ULTRAPLY TPO FLASHING BY FIRESTONE.

E. TAPE FLASHING: 5-1/2 INCH (140 MM) NOMINAL WIDE TPO MEMBRANE LAMINATED TO CURED RUBBER POLYMER SEAMING TAPE, OVERALL THICKNESS 0.065 INCH (1.6 MM) NOMINAL; TPO QUICKSEAM FLASHING BY FIRESTONE. F. POURABLE SEALER: TWO-PART POLYURETHANE, TWO-COLOR FOR RELIABLE MIXING; POURABLE SEALER BY FIRESTONE. G. SEAM PLATES: STEEL WITH BARBS AND GALVALUME COATING; CORROSION-RESISTANCE COMPLYING WITH FM 4470. H. TERMINATION BARS: ALUMINUM BARS WITH INTEGRAL CAULK LEDGE; 1.3 INCHES (33 MM) WIDE BY 0.10 INCH (2.5 MM) THICK; FIRESTONE TERMINATION BAR BY FIRESTONE.

I. CUT EDGE SEALANT: SYNTHETIC RUBBER-BASED, FOR USE WHERE MEMBRANE REINFORCEMENT IS EXPOSED; ULTRAPLY TPO CUT EDGE SEALANT BY FIRESTONE. J. GENERAL PURPOSE SEALANT: EPDM-BASED, ONE PART, WHITE GENERAL PURPOSE SEALANT; ULTRAPLY TPO GENERAL

PURPOSE SEALANT BY FIRESTONE. K. MOLDED FLASHING ACCESSORIES: UNREINFORCED TPO MEMBRANE PRE-MOLDED TO SUIT A VARIETY OF FLASHING DETAILS, INCLUDING PIPE BOOTS, INSIDE CORNERS, OUTSIDE CORNERS, ETC.; ULTRAPLY TPO SMALL AND LARGE PIPE

FLASHING BY FIRESTONE. L. ROOF WALKWAY PADS: NON-REINFORCED TPO WALKWAY PADS, 0.130 INCH (3 MM) BY 30 INCHES (760 MM) BY 50 FEET (15.24 M) LONG WITH PATTERNED TRAFFIC BEARING SURFACE; ULTRAPLY TPO WALKWAY PADS BY FIRESTONE.

2.04 ROOF INSULATION AND COVER BOARDS

A. POLYISOCYANURATE BOARD INSULATION: CLOSED CELL POLYISOCYANURATE FOAM WITH BLACK GLASS REINFORCED MAT LAMINATED TO FACES, COMPLYING WITH ASTM C 1289 TYPE I CLASS 1, WITH THE FOLLOWING ADDITIONAL CHARACTERISTICS:

1. THICKNESS: AS INDICATED ELSEWHERE. 2. SIZE: 48 INCHES (1220 MM) BY 96 INCHES (2440 MM), NOMINAL.

a. EXCEPTION: INSULATION TO BE ATTACHED USING ADHESIVE OR ASPHALT MAY BE NO LARGER THAN 48 INCHES (1220 MM) BY 48 INCHES (1220 MM), NOMINAL. 3. R-VALUE (LTTR):

a. 1.0 INCH (25 MM) THICKNESS: 5.6, MINIMUM.

b. 1.5 INCH (38 MM) THICKNESS: 8.5, MINIMUM. c. 2.0 INCH (51 MM) THICKNESS: 11.4, MINIMUM.

d. 2.5 INCH (64 MM) THICKNESS: 14.4, MINIMUM. 4. COMPRESSIVE STRENGTH: 20 PSI (138 KPA) WHEN TESTED IN ACCORDANCE WITH ASTM C 1289.

5. OZONE DEPLETION POTENTIAL: ZERO: MADE WITHOUT CFC OR HCFC BLOWING AGENTS.

6. RECYCLED CONTENT: 19 PERCENT POST-CONSUMER AND 15 PERCENT POST-INDUSTRIAL, AVERAGE. B. INSULATION FASTENERS: TYPE AND SIZE AS REQUIRED BY ROOF MEMBRANE MANUFACTURER FOR ROOFING SYSTEM AND WARRANTY TO BE PROVIDED; USE ONLY FASTENERS FURNISHED BY ROOF MEMBRANE MANUFACTURER.

2.05 METAL ACCESSORIES

AGING.

A. METAL ROOF EDGING AND FASCIA: CONTINUOUS METAL EDGE MEMBER SERVING AS TERMINATION OF ROOF MEMBRANE AND RETAINER FOR METAL FASCIA; WATERTIGHT WITH NO EXPOSED FASTENERS; MOUNTED TO ROOF EDGE NAILER. 1. WIND PERFORMANCE:

a. MEMBRANE PULL-OFF RESISTANCE: 100 LBS/FT (1460 N/M), MINIMUM, WHEN TESTED IN ACCORDANCE WITH ANSI/SPRI ES-1 TEST METHOD RE-1, CURRENT EDITION. b. FASCIA PULL-OFF RESISTANCE: AT LEAST THE MINIMUM REQUIRED WHEN TESTED IN ACCORDANCE WITH

ANSI/SPRI ES-1 TEST METHOD RE-2, CURRENT EDITION. c. PROVIDE PRODUCT LISTED IN CURRENT FACTORY MUTUAL RESEARCH CORPORATION APPROVAL GUIDE WITH AT LEAST FM 1-270 RATING.

2. DESCRIPTION: TWO-PIECE; EXTRUDED ALUMINUM T-SHAPED EDGE MEMBER SECURING TOP AND BOTTOM EDGES OF FLAT-FACED FORMED METAL FASCIA; FIRESTONE ANCHORGARD. 3. FASCIA FACE HEIGHT: 5 INCHES (127 MM)

4. EDGE MEMBER HEIGHT ABOVE NAILER: 1-1/4 INCHES (31 MM). 5. FASCIA MATERIAL AND FINISH: 0.040 INCH (1.0 MM) THICK FORMED ALUMINUM, NATURAL MILL FINISH; MATCHING CONCEALED JOINT SPLICE PLATES; FACTORY-INSTALLED PROTECTIVE PLASTIC FILM.

6. LENGTH: 120 INCHES (3048 MM). 7. FUNCTIONAL CHARACTERISTICS: FASCIA RETAINER SUPPORTS WHILE ALLOWING FOR FREE THERMAL CYCLING OF 8. ALUMINUM BAR: CONTINUOUS 6063-T6 ALLOY ALUMINUM EXTRUSION WITH PRE-PUNCHED SLOTTED HOLES; MITERS WELDED; INJECTION MOLDED EPDM SPLICES TO ALLOW THERMAL EXPANSION. 9. ANCHOR BAR CLEAT: 20 GAGE, 0.036 INCH (0.9 MM) G90 COATED COMMERCIAL TYPE GALVANIZED STEEL WITH PRE-PUNCHED HOLES.

10. CURVED APPLICATIONS: FACTORY MODIFIED. 11. FASTENERS: FACTORY-PROVIDED CORROSION RESISTANT FASTENERS, WITH DRIVERS; NO EXPOSED FASTENERS PERMITTED.

12. SPECIAL SHAPED COMPONENTS: PROVIDE FACTORY-FABRICATED PIECES NECESSARY FOR COMPLETE INSTALLATION, INCLUDING MITERS, SCUPPERS, AND END CAPS; MINIMUM 14 INCH (355 MM) LONG LEGS ON CORNER PIECES. 13. SCUPPERS: WELDED WATERTIGHT

14. ACCESSORIES: PROVIDE MATCHING BRICK WALL CAP, DOWNSPOUT, EXTENDERS, AND OTHER SPECIAL FABRICATIONS AS SHOWN ON THE DRAWINGS. B. PARAPET COPINGS: FORMED METAL COPING WITH GALVANIZED STEEL ANCHOR/SUPPORT CLEATS FOR CAPPING ANY PARAPET WALL; WATERTIGHT, MAINTENANCE FREE, WITHOUT EXPOSED FASTENERS; BUTT TYPE JOINTS WITH CONCEALED SPLICE PLATES; MECHANICALLY FASTENED AS INDICATED; FIRESTONE PTCF.

 WIND PERFORMANCE: a. AT LEAST THE MINIMUM REQUIRED WHEN TESTED IN ACCORDANCE WITH ANSI/SPRI ES-1 TEST METHOD RE-3, CURRENT EDITION.

b. PROVIDE PRODUCT LISTED IN CURRENT FACTORY MUTUAL RESEARCH CORPORATION APPROVAL GUIDE WITH AT LEAST FM 1-180 RATING. 2. DESCRIPTION: COPING SECTIONS ALLOWED TO EXPAND AND CONTRACT FREELY WHILE LOCKED IN PLACE ON

ANCHOR CLEATS BY MECHANICAL PRESSURE FROM HARDENED STAINLESS STEEL SPRINGS FACTORY ATTACHED TO ANCHOR CLEATS; 8 INCH (200 MM) WIDE SPLICE PLATES WITH FACTORY APPLIED DUAL NON-CURING SEALANT STRIPS CAPABLE OF PROVIDING WATERTIGHT SEAL. 3. MATERIAL AND FINISH: 24 GA. THICK FORMED ALUMINUM, CLEAR ANODIZED FINISH; MATCHING CONCEALED JOINT SPLICE PLATES; FACTORY-INSTALLED PROTECTIVE PLASTIC FILM.

4. DIMENSIONS:

a. WALL WIDTH: AS INDICATED ON THE DRAWINGS. b. PIECE LENGTH: MINIMUM 120 INCHES (3048 MM).

c. CURVED APPLICATION: FACTORY FABRICATED IN TRUE RADIUS. 5. ANCHOR/SUPPORT CLEATS: 20 GAGE, 0.036 INCH (0.9 MM) THICK PREPUNCHED GALVANIZED CLEAT WITH 12 INCH (305 MM) WIDE STAINLESS STEEL SPRING MECHANICALLY LOCKED TO CLEAT AT 72 INCHES (1820 MM) ON CENTER. 6. SPECIAL SHAPED COMPONENTS: PROVIDE FACTORY-FABRICATED PIECES NECESSARY FOR COMPLETE INSTALLATION, INCLUDING MITERS, CORNERS, INTERSECTIONS, CURVES, PIER CAPS, AND END CAPS; MINIMUM 14 INCH (355 MM) LONG LEGS ON CORNER, INTERSECTION, AND END PIECES. 7. FASTENERS: FACTORY-FURNISHED; ELECTROLYTICALLY COMPATIBLE; MINIMUM PULL OUT RESISTANCE OF 240 POUNDS (109 KG) FOR ACTUAL SUBSTRATE USED; NO EXPOSED FASTENERS.

PART 3 INSTALLATION 3.01 GENERAL

A. INSTALL ROOFING, INSULATION, FLASHINGS, AND ACCESSORIES IN ACCORDANCE WITH ROOFING MANUFACTURER'S PUBLISHED INSTRUCTIONS AND RECOMMENDATIONS FOR THE SPECIFIED ROOFING SYSTEM. WHERE MANUFACTURER PROVIDES NO INSTRUCTIONS OR RECOMMENDATIONS, FOLLOW GOOD ROOFING PRACTICES AND INDUSTRY STANDARDS. COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS. B. OBTAIN ALL RELEVANT INSTRUCTIONS AND MAINTAIN COPIES AT PROJECT SITE FOR DURATION OF INSTALLATION PERIOD.

3.02 EXAMINATION

- EXAMINE ROOF DECK TO DETERMINE THAT IT IS SUFFICIENTLY RIGID TO SUPPORT INSTALLERS AND THEIR MECHANICAL EQUIPMENT AND THAT DEFLECTION WILL NO STRAIN OR RUPTURE ROOF COMPONENTS OR DEFORM DFCK.
- B. VERIFY THAT SURFACES AND SITE CONDITIONS ARE READY TO RECEIVE WORK. CORRECT DEFECTS IN THE SUBSTRATE BEFORE COMMENCING WITH ROOFING WORK.
- C. EXAMINE ROOF SUBSTRATE TO VERIFY THAT IT IS PROPERLY SLOPED TO DRAINS. D. VERIFY THAT THE SPECIFICATIONS AND DRAWING DETAILS ARE WORKABLE AND NOT IN CONFLICT WITH THE ROOFING
- MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS; START OF WORK CONSTITUTES ACCEPTABLE OF PROJECT CONDITIONS AND REQUIREMENTS.
- E. VERIFY THAT WOOD NAILERS HAVE BEEN PROPERLY INSTALLED.
- 3.03 PREPARATION
- BUILDING THROUGH AIR INTAKES. B. PRIOR TO PROCEEDING, PREPARE ROOF SURFACE SO THAT IT IS CLEAN, DRY, AND SMOOTH, AND FREE OF SHARP EDGES, FINS, ROUGHENED SURFACES, LOOSE OR FOREIGN MATERIALS, OIL, GREASE AND OTHER MATERIALS THAT
- MAY DAMAGE THE MEMBRANE C. FILL ALL SURFACE VOIDS IN THE IMMEDIATE SUBSTRATE THAT ARE GREATER THAN 1/4 INCH (6 MM) WIDE WITH FILL MATERIAL ACCEPTABLE INSULATION TO MEMBRANE MANUFACTURER.
- D. SEAL, GROUT, OR TAPE DECK JOINTS, WHERE NEEDED, TO PREVENT BITUMEN SEEPAGE INTO BUILDING.
- 3.04 INSULATION AND COVER BOARD INSTALLATION A. INSTALL INSULATION IN CONFIGURATION AND WITH ATTACHMENT METHOD(S) SPECIFIED IN PART 2, UNDER ROOFING
- B. INSTALL ONLY AS MUCH INSULATION AS CAN BE COVERED WITH THE COMPLETED ROOFING SYSTEM BEFORE THE END OF THE DAY'S WORK OR BEFORE THE ONSET OF INCLEMENT WEATHER.
- C. LAY ROOF INSULATION IN COURSES PARALLEL TO ROOF EDGES. D. NEATLY AND TIGHTLY FIT INSULATION TO ALL PENETRATIONS, PROJECTIONS, AND NAILERS, WITH GAPS NOT GREATER
- THAN 1/4 INCH (6 MM). FILL GAPS GREATER THAN 1/4 INCH (6 MM) WITH ACCEPTABLE INSULATION. DO NOT LEAVE THE ROOFING MEMBRANE UNSUPPORTED OVER A SPACE GREATER THAN 1/4 INCH (6 MM). E. LOOSE LAID INSTALLATION: INSTALL INSULATION BY LAYING LOOSE OVER SUBSTRATE WITHOUT MECHANICAL SECUREMENT OF ANY KIND.
- F. MECHANICAL FASTENING: USING SPECIFIED FASTENERS AND INSULATION PLATES ENGAGE FASTENERS THROUGH INSULATION INTO DECK TO DEPTH AND IN PATTERN REQUIRED BY FACTORY MUTUAL FOR FM CLASS SPECIFIED IN PART 2 AND MEMBRANE MANUFACTURER, WHICHEVER IS MORE STRINGENT.

### 3.05 ELASTOMERIC MEMBRANE INSTALLATION

- RELAX AT LEAST 30 MINUTES BEFORE ATTACHMENT OR SPLICING; IN COLDER WEATHER ALLOW FOR LONGER RELAX TIME. B. LAY OUT THE MEMBRANE PIECES SO THAT FIELD AND FLASHING SPLICES ARE INSTALLED TO SHED WATER.
- C. INSTALL MEMBRANE WITHOUT WRINKLES AND WITHOUT GAPS OR FISHMOUTHS IN SEAMS; BOND AND TEST SEAMS AND LAPS IN ACCORDANCE WITH MEMBRANE MANUFACTURER'S INSTRUCTIONS AND DETAILS. D. EDGE SECUREMENT: SECURE MEMBRANE AT ALL LOCATIONS WHERE MEMBRANE TERMINATES OR GOES THROUGH AN ANGLE CHANGE GREATER THAN 2 IN 12 INCHES (1:6 ) USING MECHANICALLY FASTENED REINFORCED PERIMETER
- FASTENING STRIPS, PLATES, OR METAL EDGING AS INDICATED OR AS RECOMMENDED BY ROOFING MANUFACTURER. 1. EXCEPTIONS: ROUND PIPE PENETRATIONS LESS THAN 18 INCHES (460 MM) IN DIAMETER AND SQUARE PENETRATIONS LESS THAN 4 INCHES (200 MM) SQUARE.
- 2. METAL EDGING IS NOT MERELY DECORATIVE; ENSURE ANCHORAGE OF MEMBRANE AS INTENDED BY ROOFING MANUFACTURER.
- 3.06 FLASHING AND ACCESSORIES INSTALLATION
- A. INSTALL FLASHINGS, INCLUDING LAPS, SPLICES, JOINTS, BONDING, ADHESION, AND ATTACHMENT, AS REQUIRED BY MEMBRANE MANUFACTURER'S RECOMMENDATIONS AND DETAILS. B. METAL ACCESSORIES: INSTALL METAL EDGINGS, GRAVEL STOPS, AND COPINGS IN LOCATIONS INDICATED ON THE DRAWINGS, WITH HORIZONTAL LEG OF EDGE MEMBER OVER MEMBRANE AND FLASHING OVER METAL ONTO MEMBRANE.
- 1. FOLLOW ROOFING MANUFACTURER'S INSTRUCTIONS. REMOVE PROTECTIVE PLASTIC SURFACE FILM IMMEDIATELY BEFORE INSTALLATION.
- INSTALL WATER BLOCK SEALANT UNDER THE MEMBRANE ANCHORAGE LEG.
- FLASH WITH MANUFACTURER'S RECOMMENDED FLASHING SHEET UNLESS OTHERWISE INDICATED WHERE SINGLE APPLICATION OF FLASHING WILL NOT COMPLETELY COVER THE METAL FLANGE, INSTALL
- ADDITIONAL PIECE OF FLASHING TO COVER THE METAL EDGE. 6. IF THE ROOF EDGE INCLUDES A GRAVEL STOP AND SEALANT IS NOT APPLIED BETWEEN THE LAPS IN THE METAL EDGING, INSTALL AN ADDITIONAL PIECE OF SELF-ADHESIVE FLASHING MEMBRANE OVER THE METAL LAP TO THE TOP OF THE GRAVEL STOP: APPLY SEAM EDGE TREATMENT AT THE INTERSECTIONS OF THE TWO FLASHING SECTIONS.
- 7. WHEN THE ROOF SLOPE IS GREATER THAN 1:12, APPLY SEAM EDGE TREATMENT ALONG THE BACK EDGE OF THE FLASHING. SCUPPERS: SET IN SEALANT AND SECURE TO STRUCTURE; FLASH AS RECOMMENDED BY MANUFACTURER. D. ROOFING EXPANSION JOINTS: INSTALL AS SHOWN ON DRAWINGS AND AS RECOMMENDED BY ROOFING
- MANUFACTURER. E. FLASHING AT WALLS, CURBS, AND OTHER VERTICAL AND SLOPED SURFACES: INSTALL WEATHERTIGHT FLASHING AT ALL WALLS, CURBS, PARAPETS, CURBS, SKYLIGHTS, AND OTHER VERTICAL AND SLOPED SURFACES THAT THE
- 1. USE THE LONGEST PRACTICAL FLASHING PIECES. 2. EVALUATE THE SUBSTRATE AND OVERLAY AND ADJUST INSTALLATION PROCEDURE IN ACCORDANCE WITH
- MEMBRANE MANUFACTURER'S RECOMMENDATIONS. 3. COMPLETE THE SPLICE BETWEEN FLASHING AND THE MAIN ROOF SHEET WITH SPECIFIED SPLICE ADHESIVE BEFORE ADHERING FLASHING TO THE VERTICAL SURFACE. 4. PROVIDE TERMINATION DIRECTLY TO THE VERTICAL SUBSTRATE AS SHOWN ON ROOF DRAWINGS.
- F. ROOF DRAINS: TAPER INSULATION AROUND DRAIN TO PROVIDE SMOOTH TRANSITION FROM ROOF SURFACE TO DRAIN. USE SPECIFIED PRE-MANUFACTURED TAPERED INSULATION WITH FACER OR SUITABLE BONDING SURFACE TO
- ACHIEVE SLOPE; SLOPE NOT TO EXCEED MANUFACTURER'S RECOMMENDATIONS. POSITION MEMBRANE, THEN CUT A HOLE FOR ROOF DRAIN TO ALLOW 1/2 TO 3/4 INCH (12 TO 19 MM) OF
- MEMBRANE TO EXTEND INSIDE CLAMPING RING PAST DRAIN BOLTS. 3. MAKE ROUND HOLES IN MEMBRANE TO ALIGN WITH CLAMPING BOLTS; DO NOT CUT MEMBRANE BACK TO BOLT HOLES
- 4. APPLY SEALANT ON TOP OF DRAIN BOWL WHERE CLAMPING RING SEATS BELOW THE MEMBRANE 5. INSTALL ROOF DRAIN CLAMPING RING AND CLAMPING BOLTS; TIGHTEN CLAMPING BOLTS TO ACHIEVE CONSTANT COMPRESSION.

#### G. FLASHING AT PENETRATIONS: FLASH ALL PENETRATIONS PASSING THROUGH THE MEMBRANE; MAKE FLASHING SEALS DIRECTLY TO THE PENETRATION.

- 1. PIPES, ROUND SUPPORTS, AND SIMILAR ITEMS: FLASH WITH SPECIFIED PRE-MOLDED PIPE FLASHINGS WHEREVER PRACTICAL; OTHERWISE USE SPECIFIED SELF-CURING ELASTOMERIC FLASHING. PIPE CLUSTERS AND UNUSUAL SHAPED PENETRATIONS: PROVIDE PENETRATION POCKET AT LEAST 2 INCHES (50
- MM) DEEP, WITH AT LEAST 1 INCH (25 MM) CLEARANCE FROM PENETRATION, SLOPED TO SHED WATER. 3. STRUCTURAL STEEL TUBING: IF CORNER RADII ARE GREATER THAN 1/4 INCH (6 MM) AND LONGEST SIDE OF TUBE
- DOES NOT EXCEED 12 INCHES (305 MM), FLASH AS FOR PIPES; OTHERWISE, PROVIDE A STANDARD CURB WITH FLASHING. 4. FLEXIBLE AND MOVING PENETRATIONS: PROVIDE WEATHERTIGHT GOOSENECK SET IN SEALANT AND SECURED
- TO DECK, FLASHED AS RECOMMENDED BY MANUFACTURER. HIGH TEMPERATURE SURFACES: WHERE THE IN-SERVICE TEMPERATURE IS, OR IS EXPECTED TO BE, IN EXCESS OF 180 DEGREES F (82 DEGREES C), PROTECT THE ELASTOMERIC COMPONENTS FROM DIRECT CONTACT WITH THE HOT SURFACES USING AN INTERMEDIATE INSULATED SLEEVE AS FLASHING SUBSTRATE AS RECOMMENDED BY MEMBRANE MANUFACTURER.

### 3.07 FINISHING AND WALKWAY INSTALLATION

- A. INSTALL WALKWAYS AT ACCESS POINTS TO THE ROOF, AROUND ROOFTOP EQUIPMENT THAT MAY REQUIRE MAINTENANCE, AND WHERE INDICATED ON THE DRAWINGS.
- B. WALKWAY PADS: ADHERE TO THE ROOFING MEMBRANE, SPACING EACH PAD AT MINIMUM OF 1.0 INCH (25 MM) AND MAXIMUM OF 3.0 INCHES (75 MM) FROM EACH OTHER TO ALLOW FOR DRAINAGE.
- C. DO NOT START WORK UNTIL PRE-INSTALLATION NOTICE HAS BEEN SUBMITTED TO MANUFACTURER AS NOTIFICATION THAT THIS PROJECT REQUIRES A MANUFACTURER'S WARRANTY.
- PERFORM WORK USING COMPETENT AND PROPERLY EQUIPPED PERSONNEL E. TEMPORARY CLOSURES, WHICH ENSURE THAT MOISTURE DOES NOT DAMAGE ANY COMPLETED SECTION OF THE NEW
- ROOFING SYSTEM, ARE THE RESPONSIBILITY OF THE APPLICATOR. COMPLETION OF FLASHINGS, TERMINATIONS, AND TEMPORARY CLOSURES SHALL BE COMPLETED AS REQUIRED TO PROVIDE A WATERTIGHT CONDITION.
- F. INSTALL ROOFING MEMBRANE ONLY WHEN SURFACES ARE CLEAN, DRY, SMOOTH AND FREE OF SNOW OR ICE; DO NOT APPLY ROOFING MEMBRANE DURING INCLEMENT WEATHER OR WHEN AMBIENT CONDITIONS WILL NOT ALLOW PROPER APPLICATION; CONSULT MANUFACTURER FOR RECOMMENDED PROCEDURES DURING COLD WEATHER. DO NOT WORK WITH SEALANTS AND ADHESIVES WHEN MATERIAL TEMPERATURE IS OUTSIDE THE RANGE OF 60 TO 80 DEGREES F (15 TO 25 DEGREES C).
- G. PROTECT ADJACENT CONSTRUCTION, PROPERTY, VEHICLES, AND PERSONS FROM DAMAGE RELATED TO ROOFING WORK; REPAIR OR RESTORE DAMAGE CAUSED BY ROOFING WORK. 1. PROTECT FROM SPILLS AND OVERSPRAY FROM BITUMEN, ADHESIVES, SEALANTS AND COATINGS.
- SEALANTS WITHIN THE RANGE OF WIND-BORNE OVERSPRAY. 3. PROTECT FINISHED AREAS OF THE ROOFING SYSTEM FROM ROOFING RELATED WORK TRAFFIC AND TRAFFIC BY
- OTHER TRADES UNTIL READY FOR USE, KEEP MATERIALS IN THEIR ORIGINAL CONTAINERS AS LABELED BY THE MANUFACTURER. CONSULT MEMBRANE MANUFACTURER'S INSTRUCTIONS, CONTAINER LABELS, AND MATERIAL SAFETY DATA SHEETS (MSDS) FOR SPECIFIC SAFETY INSTRUCTIONS. KEEP ALL ADHESIVES, SEALANTS, PRIMERS AND CLEANING MATERIALS AWAY FROM ALL SOURCES OF IGNITION.
- 1. IF INSTALLATION OF WALKWAY PADS OVER FIELD FABRICATED SPLICES OR WITHIN 6 INCHES (150 MM) OF A SPLICE EDGE CANNOT BE AVOIDED. ADHERE ANOTHER LAYER OF FLASHING OVER THE SPLICE AND EXTENDING BEYOND THE WALKWAY PAD A MINIMUM OF 6 INCHES (150 MM) ON EITHER SIDE. PRIME THE MEMBRANE, REMOVE THE RELEASE PAPER ON THE PAD, PRESS IN PLACE, AND WALK ON PAD TO ENSURE PROPER ADHESION.

## **ROOF SPECIFICATIONS**

A. TAKE APPROPRIATE MEASURES TO ENSURE THAT FUMES FROM ADHESIVE SOLVENTS ARE NOT DRAWN INTO THE

A. BEGINNING AT LOW POINT OF ROOF, PLACE MEMBRANE WITHOUT STRETCHING OVER SUBSTRATE AND ALLOW TO

ROOFING MEMBRANE ABUTS TO; EXTEND FLASHING AT LEAST 8 INCHES (200 MM) HIGH ABOVE MEMBRANE SURFACE.

2. PARTICULARLY PROTECT METAL, GLASS, PLASTIC, AND PAINTED SURFACES FROM BITUMEN, ADHESIVES, AND

NOTE: TRACTOR SUPPLY COMPANY REQUIRES THE ROOFING MEMBRANE TO BE WHITE

A. INSPECTION BY MANUFACTURER: PROVIDE FINAL INSPECTION OF THE ROOFING SYSTEM BY A TECHNICAL REPRESENTATIVE EMPLOYED BY ROOFING SYSTEM MANUFACTURER SPECIFICALLY TO INSPECT INSTALLATION FOR

3.08 FIELD QUALITY CONTROL

WARRANTY PURPOSES (I.E. NOT A SALES PERSON). B. PERFORM ALL CORRECTIONS NECESSARY FOR ISSUANCE OF WARRANTY.

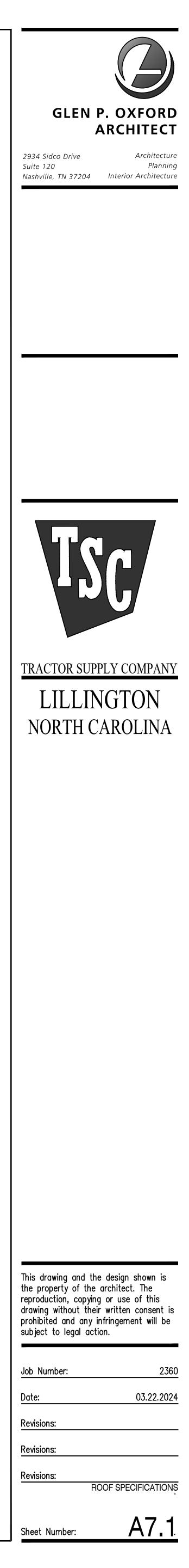
3.09 CLEANING A. CLEAN ALL CONTAMINANTS GENERATED BY ROOFING WORK FROM BUILDING AND SURROUNDING AREAS, INCLUDING BITUMEN, ADHESIVES, SEALANTS, AND COATINGS. B. REPAIR OR REPLACE BUILDING COMPONENTS AND FINISHED SURFACES DAMAGED OR DEFACED DUE TO THE WORK

OF THIS SECTION; COMPLY WITH RECOMMENDATIONS OF MANUFACTURERS OF COMPONENTS AND SURFACES. C. REMOVE LEFTOVER MATERIALS, TRASH, DEBRIS, EQUIPMENT FROM PROJECT SITE AND SURROUNDING AREAS.

3.10 PROTECTION

A. WHERE CONSTRUCTION TRAFFIC MUST CONTINUE OVER FINISHED ROOF MEMBRANE, PROVIDE DURABLE PROTECTION AND REPLACE OR REPAIR DAMAGED ROOFING TO ORIGINAL CONDITION.

END OF SECTION



# MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

2015 IBC - TABLE 1004.1.2

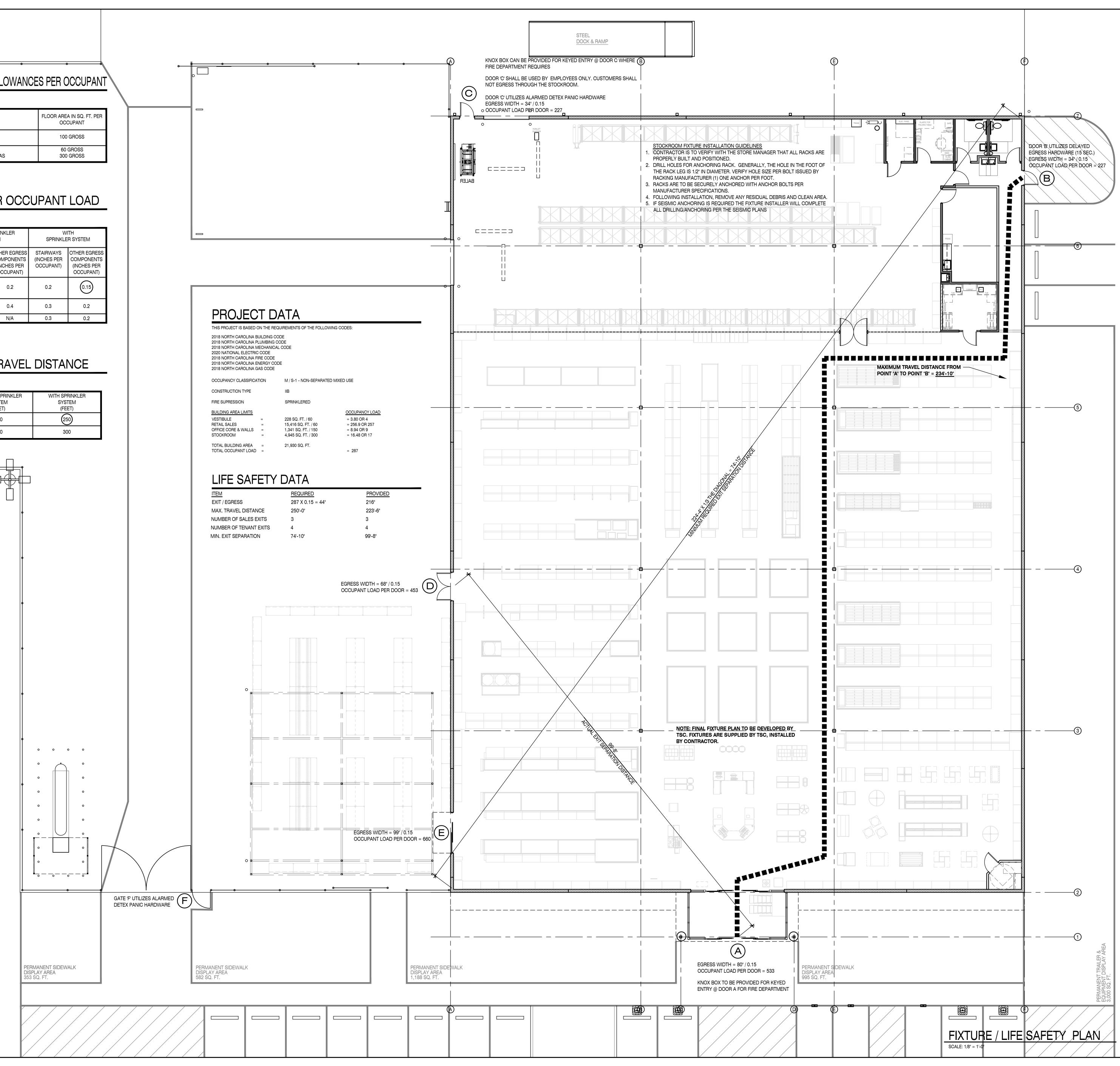
FUNCTION OF SPACE	FLOOR AREA IN SQ. FT. PER OCCUPANT
BUSINESS AREAS	100 GROSS
MERCANTILE STORAGE, STOCK, SHIPPING AREAS	60 GROSS 300 GROSS

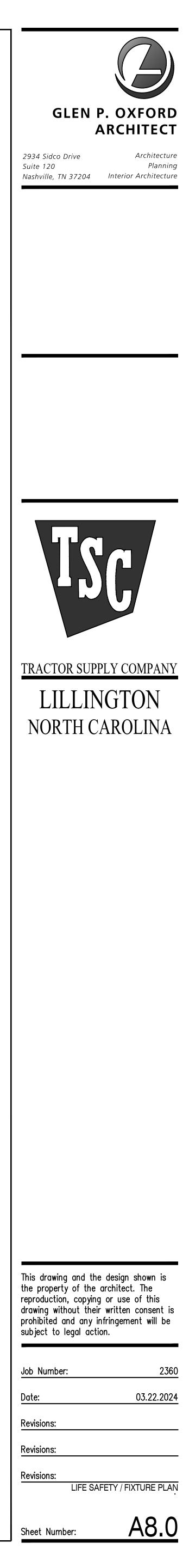
## EGRESS WIDTH PER OCCUPANT LOAD 2015 IBC - SECTION 1005.3.2

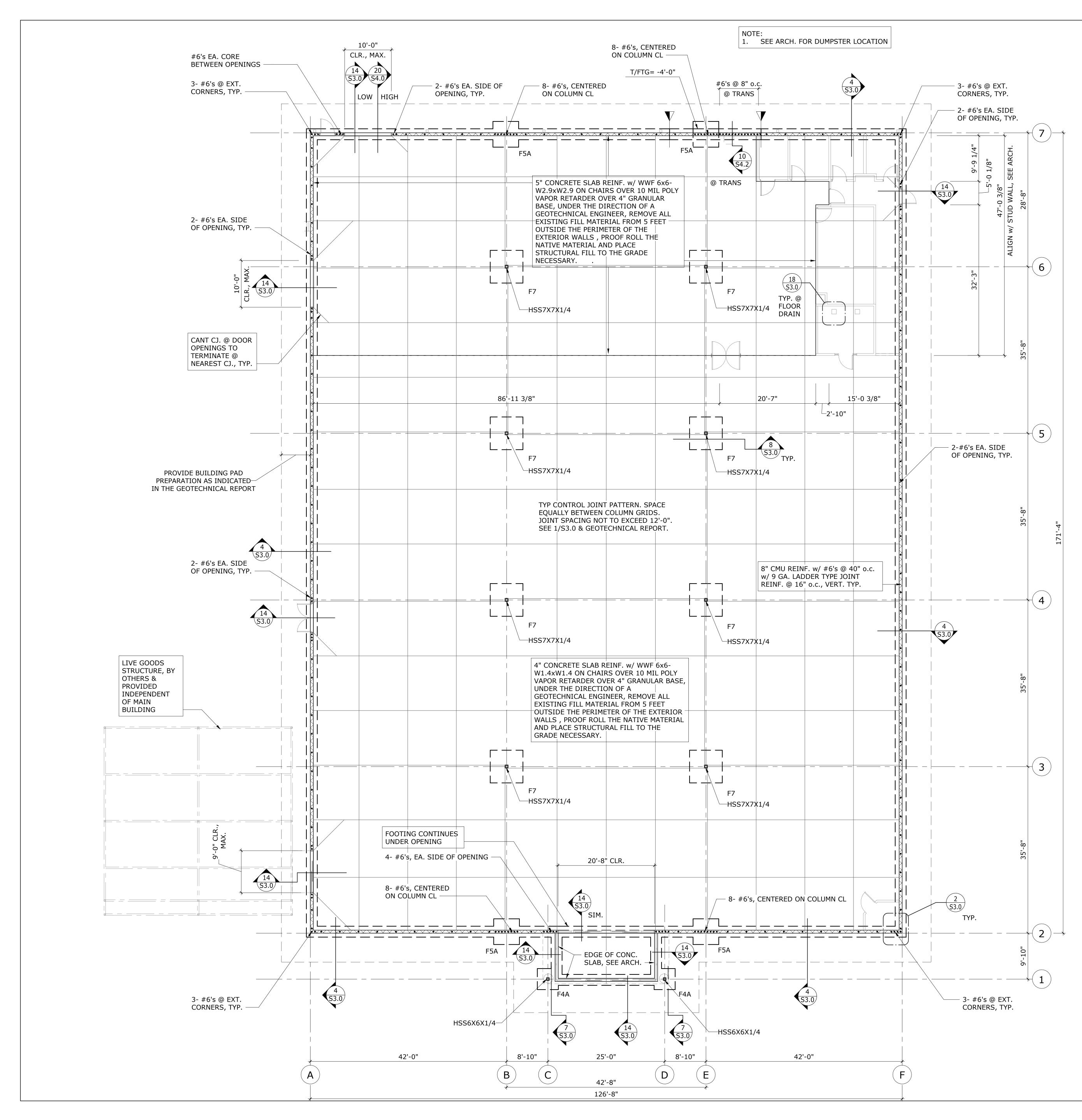
	WITHOUT SPRINKLER SYSTEM		WITH SPRINKLER SYSTEM		
OCCUPANCY	STAIRWAYS (INCHES PER OCCUPANT)	OTHER EGRESS COMPONENTS (INCHES PER OCCUPANT)	STAIRWAYS (INCHES PER OCCUPANT)	OTHER EGRESS COMPONENTS (INCHES PER OCCUPANT)	
OCCUPANCIES OTHER THAN THOSE LISTED BELOW	0.3	0.2	0.2	0.15	
HAZARDOUS: H-1, H-2, H-3 AND H-4	0.7	0.4	0.3	0.2	
INSTITUTIONAL: I-2	N/A	N/A	0.3	0.2	



	OCCUPANCY	WITHOUT SPRINKLER SYSTEM (FEET)	WITH SPRINKLER SYSTEM (FEET)
	М	200	250
•	В	200	300





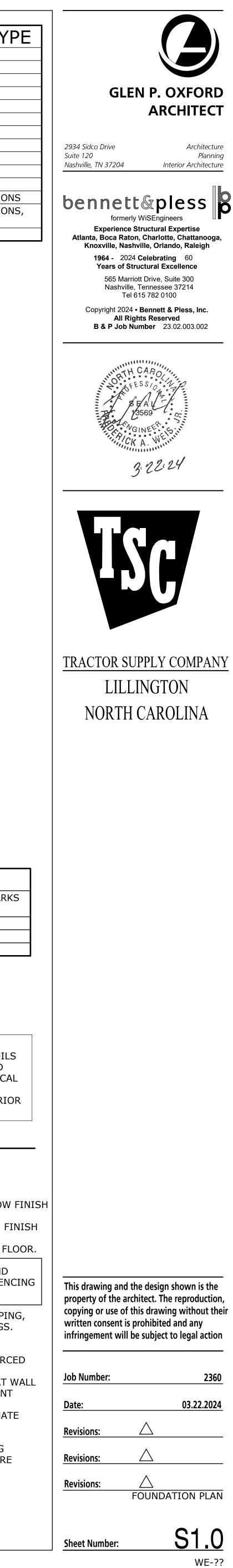


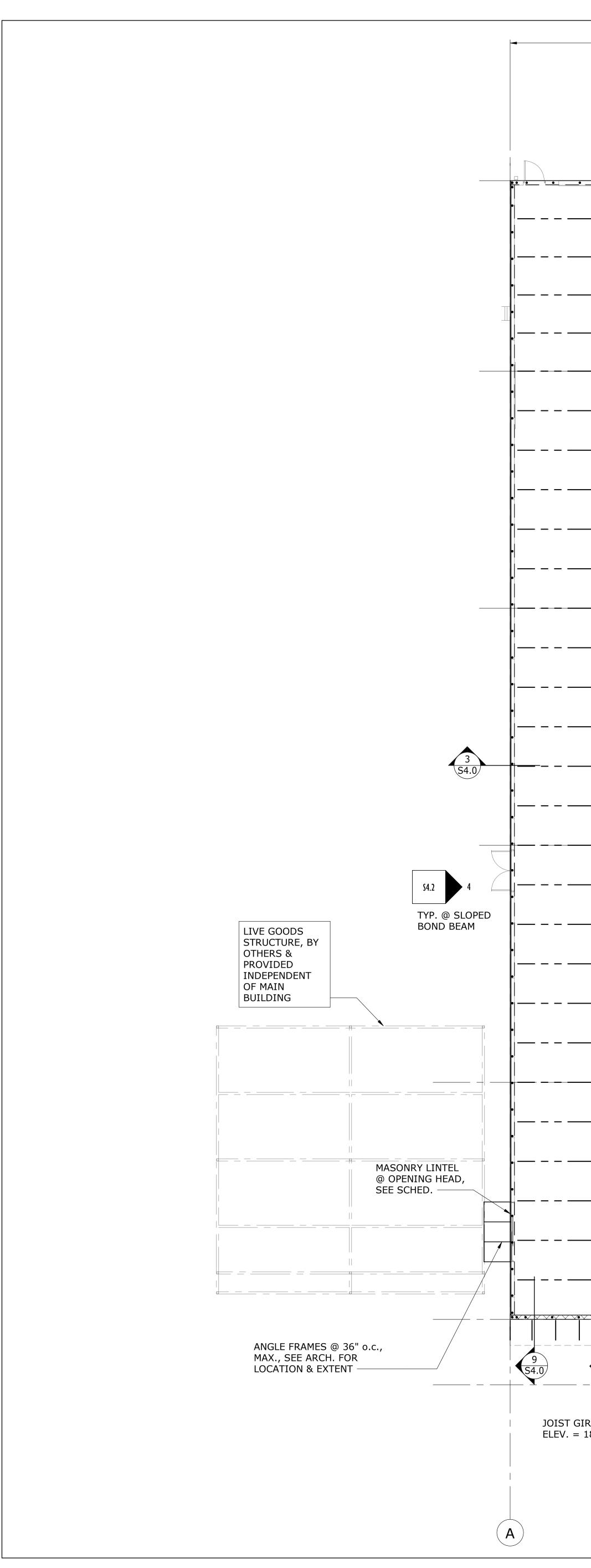
STRUC	CTURAL SHEET INDEX - CO PROTOTYPE		
SHEET NO.	SHEET NAME		
S1.0	FOUNDATION PLAN		
S2.0	ROOF FRAMING PLAN		
S2.1	ROOF FRAMING PLAN, CONT.		
S3.0	DETAILS		
S4.0	DETAILS		
S4.1	DETAILS		
S4.2	DETAILS		
S4.3	DETAILS		
S5.0	STRUCTURAL GENERAL NOTES		
S5.1	STRUCTURAL GENERAL NOTES, CONT.		
S5.2	QUALITY ASSURANCE / PROPOSED STATEMENT OF SPECIAL INSPECTIONS		
S5.3	QUALITY ASSURANCE / PROPOSED STATEMENT OF SPECIAL INSPECTIONS, CONT.		
S5.4	CONCRETE SPECIFICATIONS		

	FOOTING SCHEDULE					
MARK		SIZE		REBAR	REMARK	
	LENGTH	WIDTH	THICK.			
F4A	4'-6"	4'-6"	1'-4"	5- #5's, EA. WAY, TOP & BTM.		
F5A	5'-6"	5'-6"	1'-4"	6- #6's, EA. WAY, TOP & BTM.		
F7	7'-0"	7'-0"	1'-4"	7- #6's, EA. WAY, TOP & BTM.		

NOT	ΓE:	
1.	AND REME	OVE ALL EXISTING IN PLACE FILL, PROOF ROLL THE NATIVE SOIL FILL TO GRADE WITH APPROVED STRUCTURAL FILL, TEST, AND DIATE ALL SUBGRADE AS RECOMMENDED BY THE GEOTECHNICA NEER.
2.	VERI	Y SOIL BELOW FOOTINGS WITH GEOTECHNICAL ENGINEER PRIC ACEMENT.
6	<b>∖</b> FC	OUNDATION PLAN
(1	SCA	LE: $1/8'' = 1'-0''$
	NOT	TES:
	1.	<ul> <li>TOP OF FOOTING:</li> <li>A. EXTERIOR ISOLATED FOOTINGS = -16" MINIMUM BELOW FLOOR OR GRADE, WHICHEVER IS LOWER.</li> <li>B. CONTINUOUS WALL FOOTING = -16" MINIMUM BELOW FI FLOOR OR FINISH GRADE, WHICHEVER IS LOWER.</li> <li>C. INTERIOR ISOLATED FOOTINGS = -16" BELOW FINISH FL</li> </ul>
		D. NOTE: G.C. SHALL VERIFY REQUIRED FROST DEPTH AND EXISTING BEARING MEDIA WITH AHJ PRIOR TO COMMENO WORK. SEE GEOTECHNICAL REPORT.
	2.	THE CONTRACTOR SHALL COORDINATE ANY UNDER SLAB PIPIN CONDUITS, AND/ OR UTILITIES PRIOR TO PLACING FOOTINGS IMMEDIATELY REPORT ANY CONFLICTS TO THE ENGINEER.
	•	

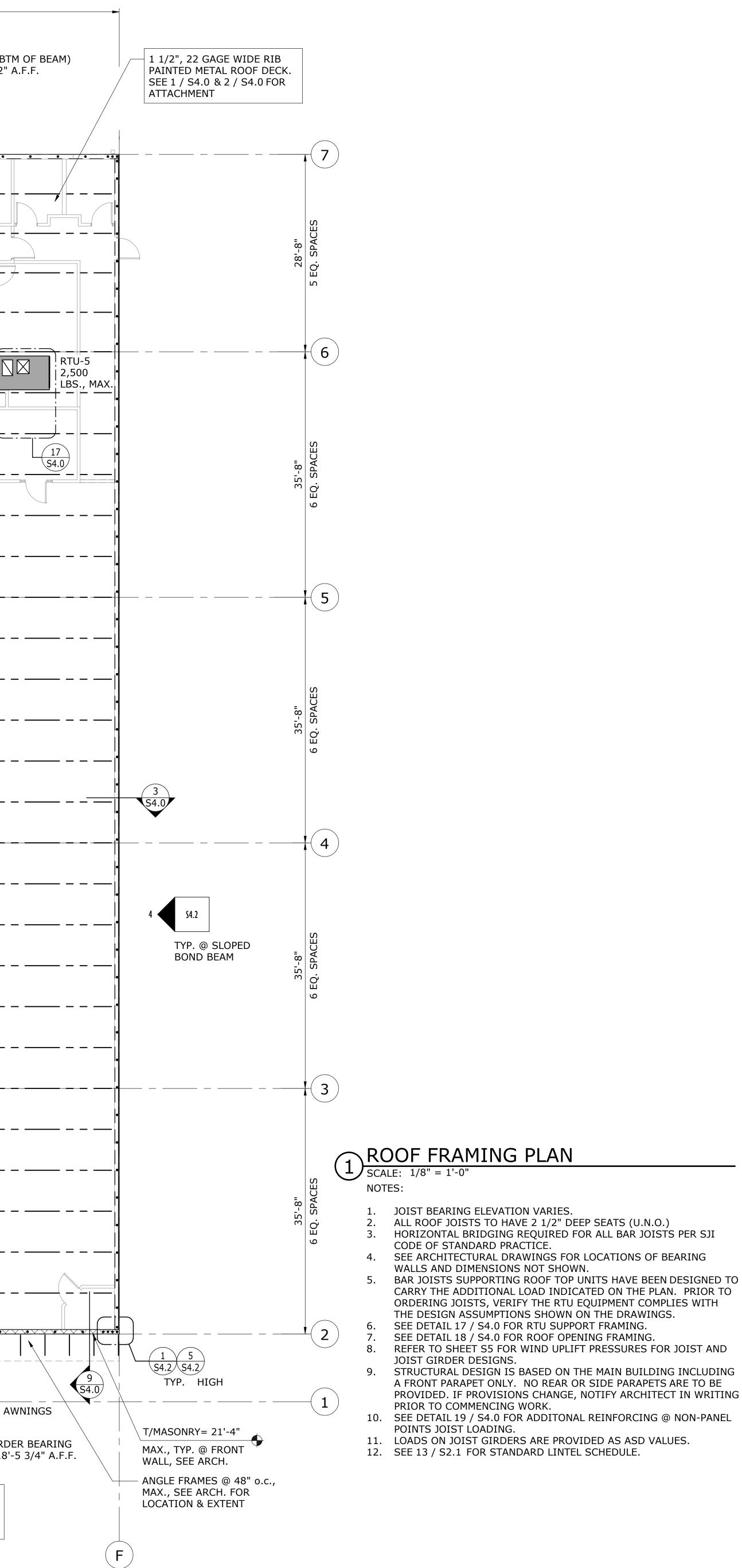
- SEE DETAIL 1 / S3.0 FOR SLAB CONTROL JOINTS.
   DOWELS SHOWN ON PLAN INDICATE GROUT FILLED REINFORCED
- DOWELS SHOWN ON PLAN INDICATE GROOT FILLED REINFORCED CORES. SEE DETAIL 13 / S3.0 & 11 / S3.0.
   SEE 12 / S3.0 & 16 / S3.0 FOR ADDITIONAL REINFORCING AT WALL
- JOINTS. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
  6. INDICATES FOOTING STEP. G.C. SHALL COORDINATE
- REQUIRED STEPS WITH GRADING AND SUBGRADE SYSTEM REQUIREMENTS SEE 3 / S3.0. 7 SEE DETAILS 7 / S4 2 8 / S4 2 AND 9 / S4 2 FOR FOOTING
- SEE DETAILS 7 / S4.2 , 8 / S4.2 , AND 9 / S4.2 FOR FOOTING CONDITIONS ADJACENT TO PLUMBING, ELECTRICAL, AND FIRE PROTECTION SYSTEMS.

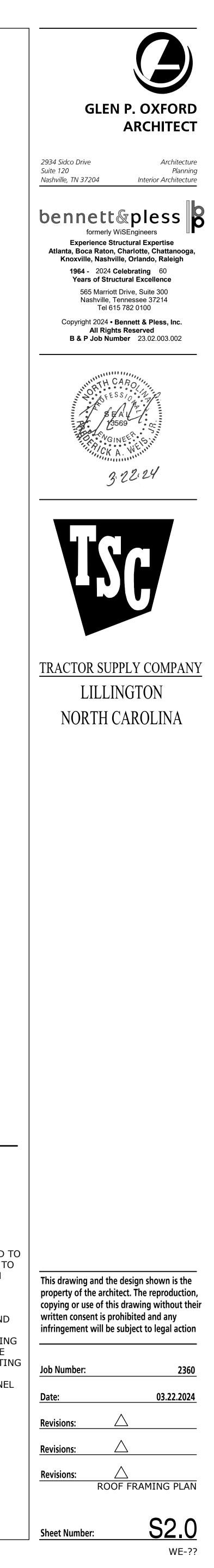


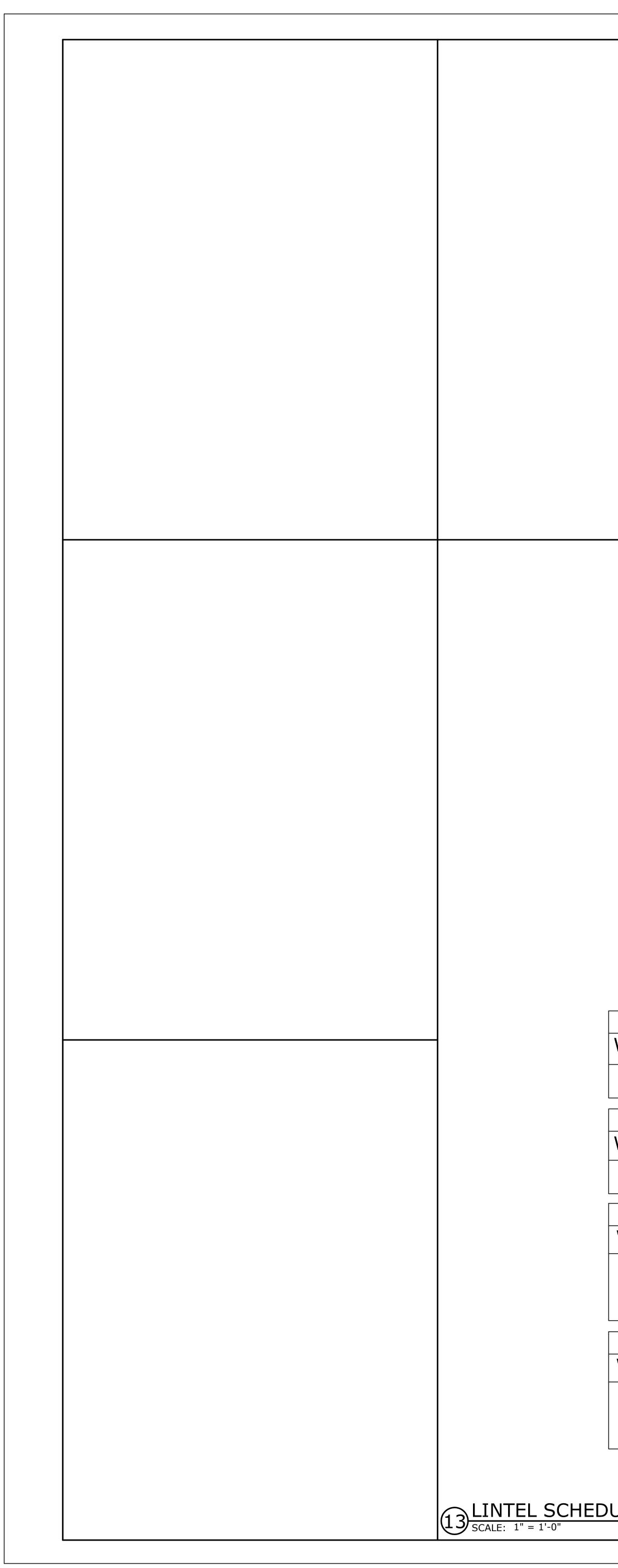


DECK BEARING = 15'-9"
TOP OF MASONRY = 15'-8 3/4"

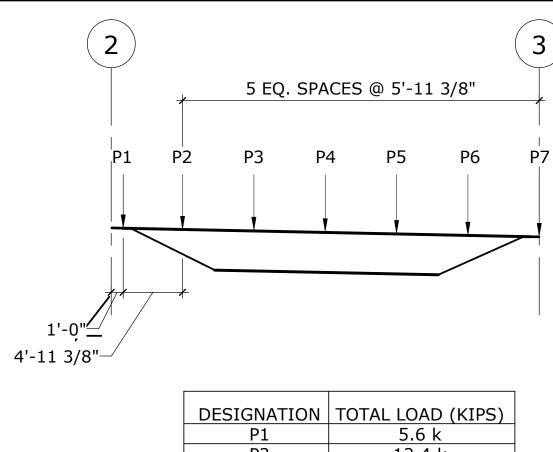
12 54.0	TYP.		— BEAM BEARING (BTM ELEV. = 13'-6 1/2" A.			AM BEARING (B EV. = 13'-6 1/2' TYP.
•• 26K9	•••••••••		_•• _• _• _••		••••	26K9
	4 S4.0 TYP.			4 54.0 TYP. 10		– – <u>–</u> – 26K9 – 26K9 –
26K9	W24X55		<u>26K9</u>	      W24X55	18 54.2	26K9
26K9			26K9	· @		26KCS4
26K9			<u>26K9</u>	 T		26KCS4
26K9	4'-0"   SPLICE		<u>26K9</u>		4'-0"	26KCS4
26K9	13 S4.0 M24X55		26K9			26K9
26KCS4	17 \$4.0		26K9	13 S4.0		26K9
26KCS4			26K9		17 S4.0	26KCS4
26KCS4		12973t	26K9	2.54		26KCS4
26K9	RTU-4 2,500 LBS., MAX.		56K9 57:4/	1.34 1.34		26KCS4
26K9			26K9		RTU-3 2,500 LBS., MAX.	26K9
26K9	14 S4.0 TYP.		26K9	14 S4.0 TYP.	_	26K9
26К9	40G6N12.0K	= 6.3K)   	26K9	40G6N12.0K	= 6.3K)   	26K9
	15 \$4.0 TYP.			15 54.0 TYP.		26K9
						26K9
26К9			26K9			26K9
	2.0K	.3K)		2.0K	(YE.	26K9
	40G6N12.0K	                 		96N	(DL = 6	 26К9
26KCS4		AP 34				26К9
	17 S4.0	ADD St			<u>17</u>	
		ADD 34				26KCS4
26К9	RTU-2 2,500 LBS., MAX.					26KCS4
					RTU-1 2,500 LBS., MAX.	— <u>+                                    </u>
		8 52.1				
	40G SP			40G SP		
		10 54.0 3 54.	9	3 54.1	10 54.0	
			<u>26K9</u>			
			W12X26 T/STL= 19'-3 3/4"			
7 TYP. @ S4.1 AWNINGS		15 S4.1				- <del>7</del> 54.1 TYP. @ /
RDER BEARING .8'-5 3/4" A.F.F. —-⁄	W12X26 T/STL= 19'-3 3/4"		W12X26 T/STL= 19'-3 3/4"		—W12X26 T/STL= 19'-3 3/4'	JOIST GIRI
			54.1		1 1/2", 22 GAGE PAINTED METAL SEE 1 / S4.0 & 2 ATTACHMENT	ROOF DECK.
	E	<b>B</b> ( <b>C</b> )		(D) $(E$		







				8 40G SCALE: 3
S WALL SIZE 8" BLOCK (WALL SIZE 8" BLOCK 8" BLOCK 8" BLOCK	DPENINGS UF LINTEL T 8" x 8" BOND BM. w/ 1- DPENINGS 6'- LINTEL T 8" x 16" BOND BM. w/ 2 PENINGS 8'-1 LINTEL T 8" x 24" BOND BM. w/ 2 TOP, MIDDLE, & BTM.	YPE + #5, TOP & BTM. -1" TO 8'- TYPE 1- #6, TOP & BTM. " TO 10'- YPE 2- #5's 1" TO 12 YPE	REMARKS REMARKS O" REMARKS O" REMARKS MIN. BRG - 16", EA. SIDE FEED ROOM OPENING IS LIMITED TO 10'-0"	<u>E HIGE</u>
DULE				5 LOW

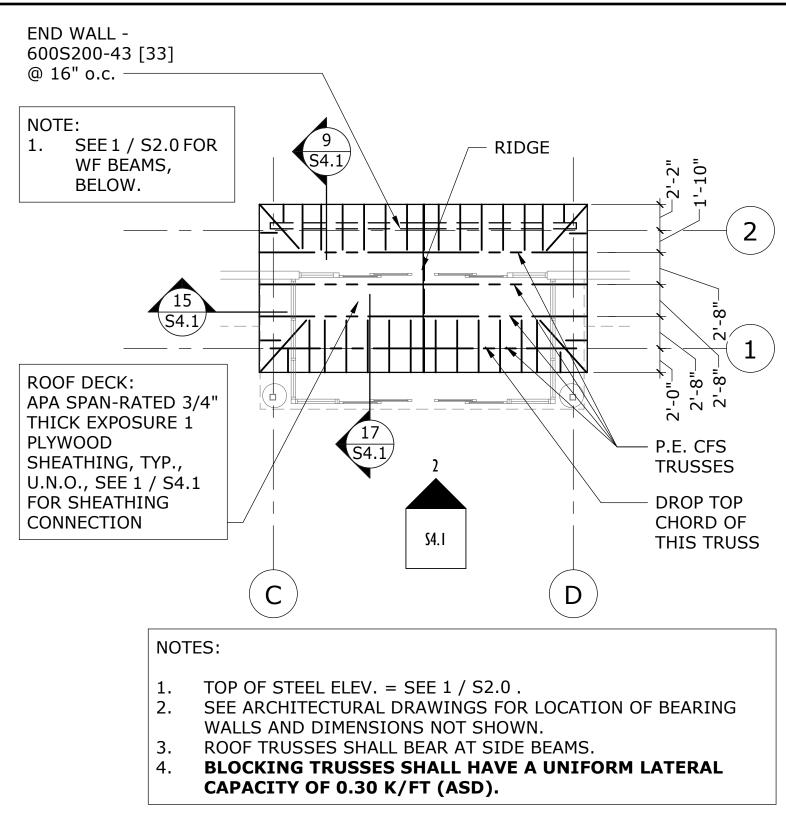


TOTAL LUAD (KIPS)
5.6 k
12.4 k
12.0 k

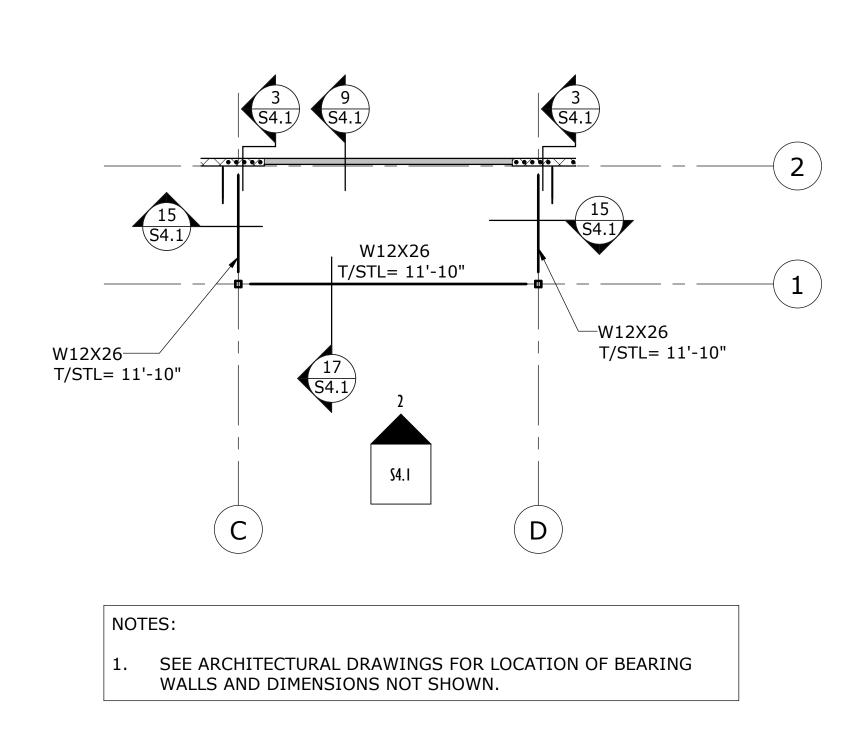
### NOTE: 1. ABOVE LOADS DO NOT CONTAIN ADDITIONAL LOADS FROM RTU'S. RTU LOADING IS ADDITIONAL, SEE ROOF FRAMING PLAN

SEE JOIST GIRDER FOR LOADING & PANEL POINT REQUIREMENTS.

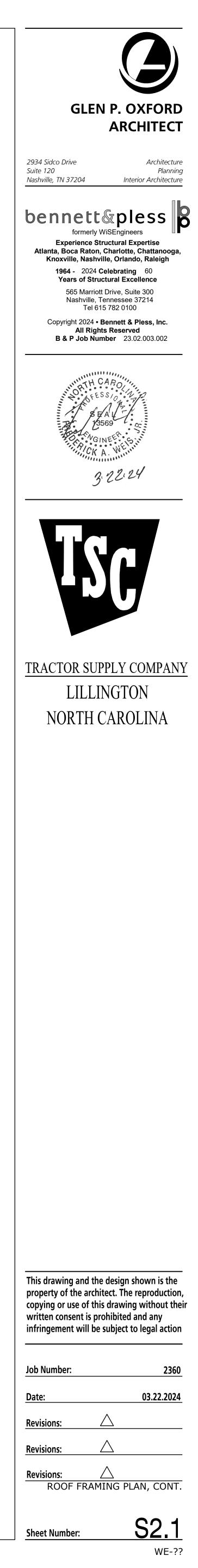
### SP LOAD DIAGRAM 1/8'' = 1'-0''

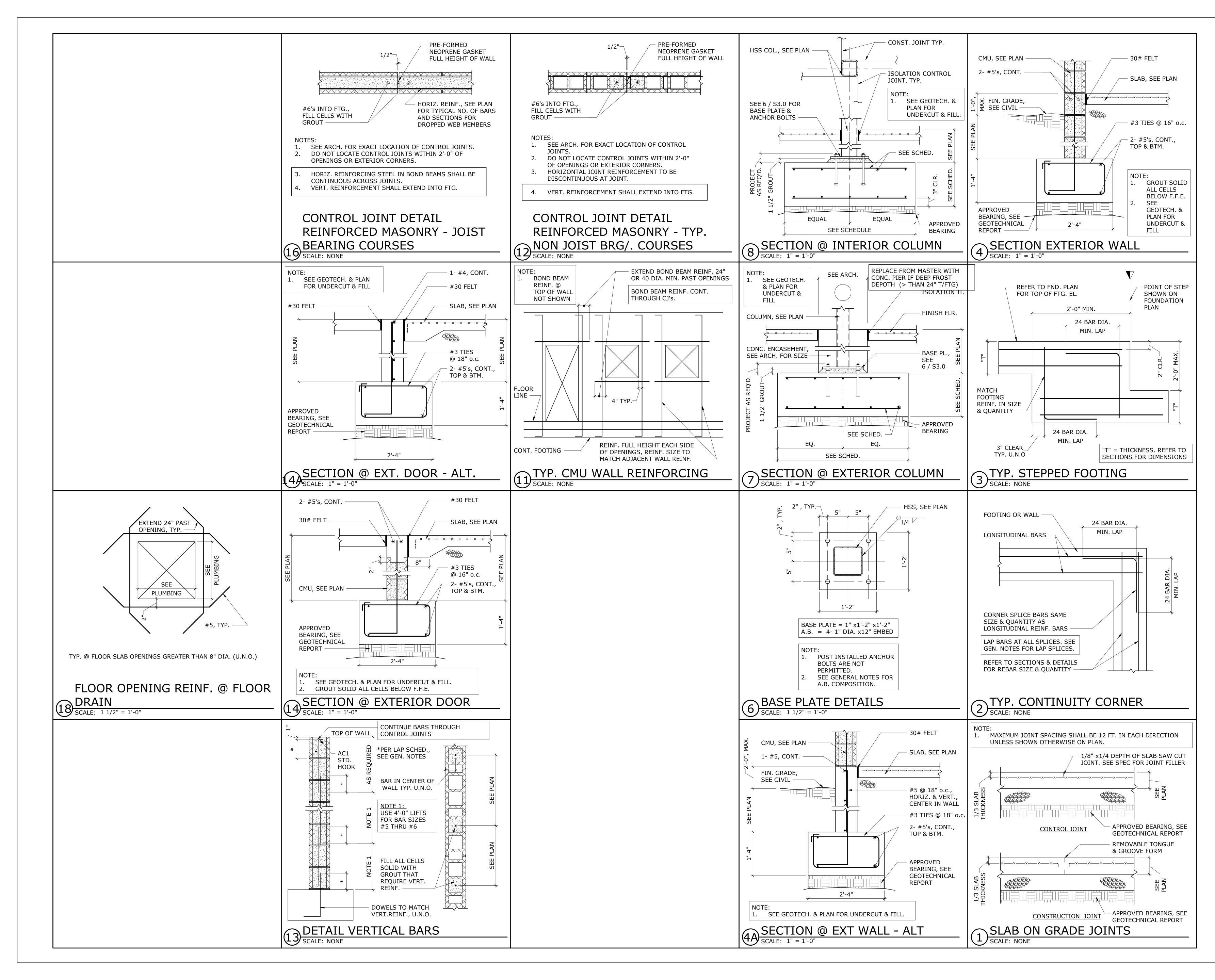


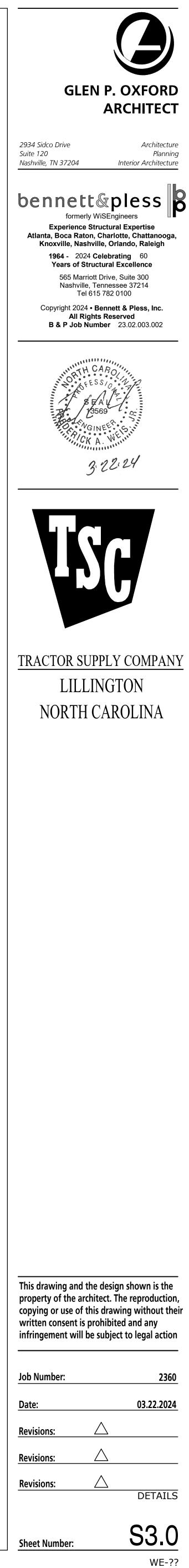
**<u>GH ENTRY FRAMING PLAN</u>** :: 1/8" = 1'-0"

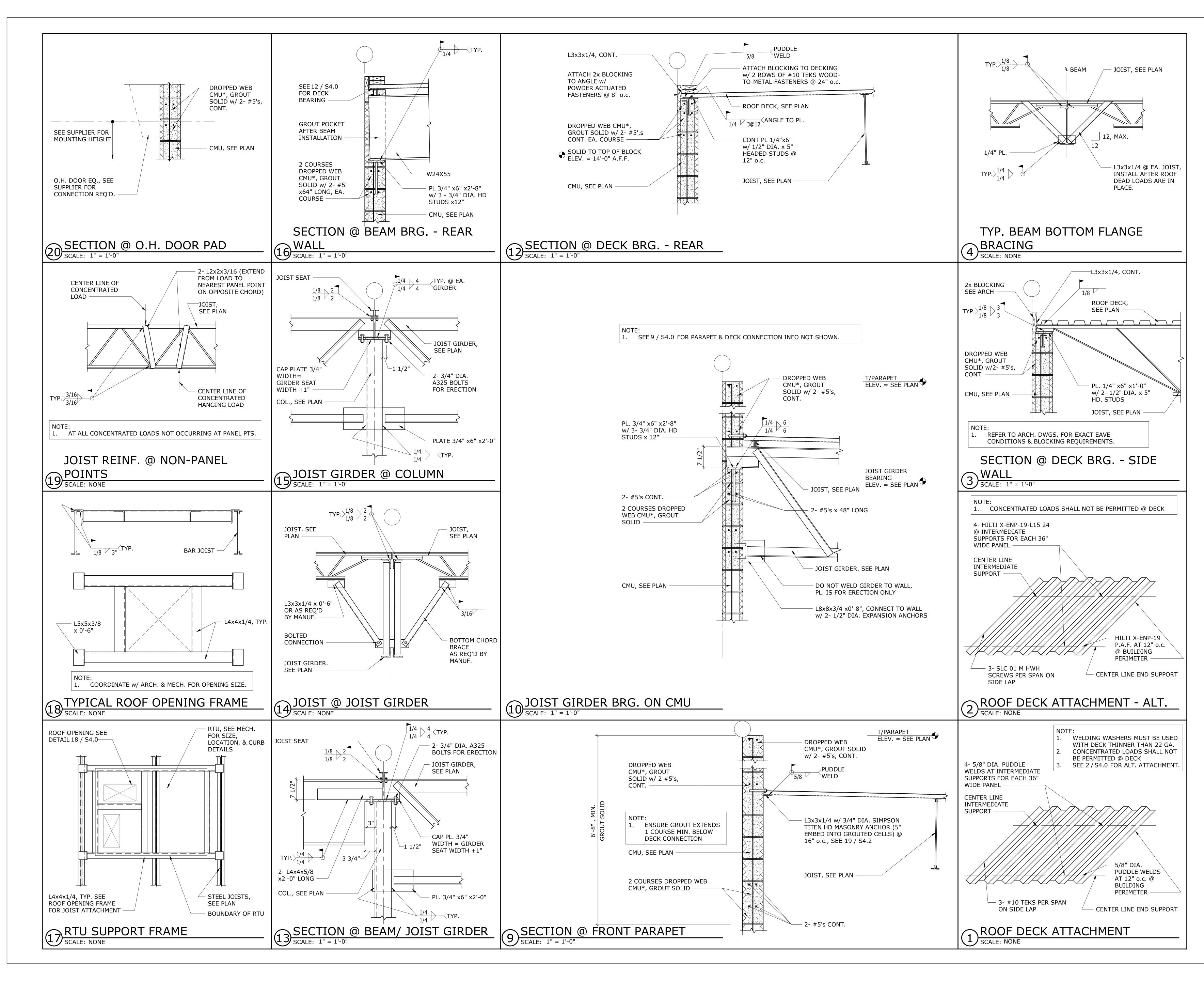


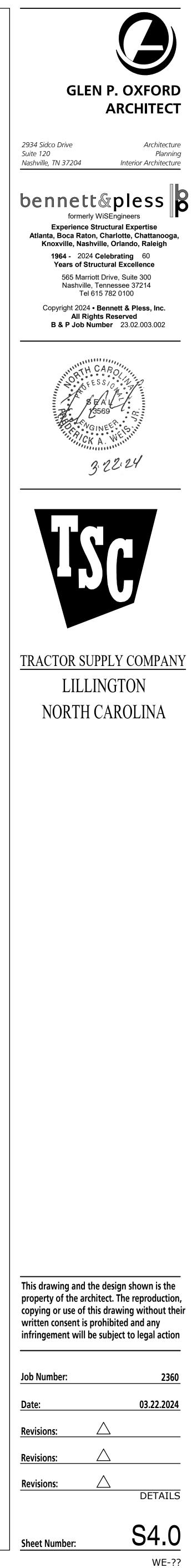
# $5 \underbrace{\text{LOW ENTRY FRAMING PLAN}}_{\text{SCALE: } 1/8" = 1'-0"}$



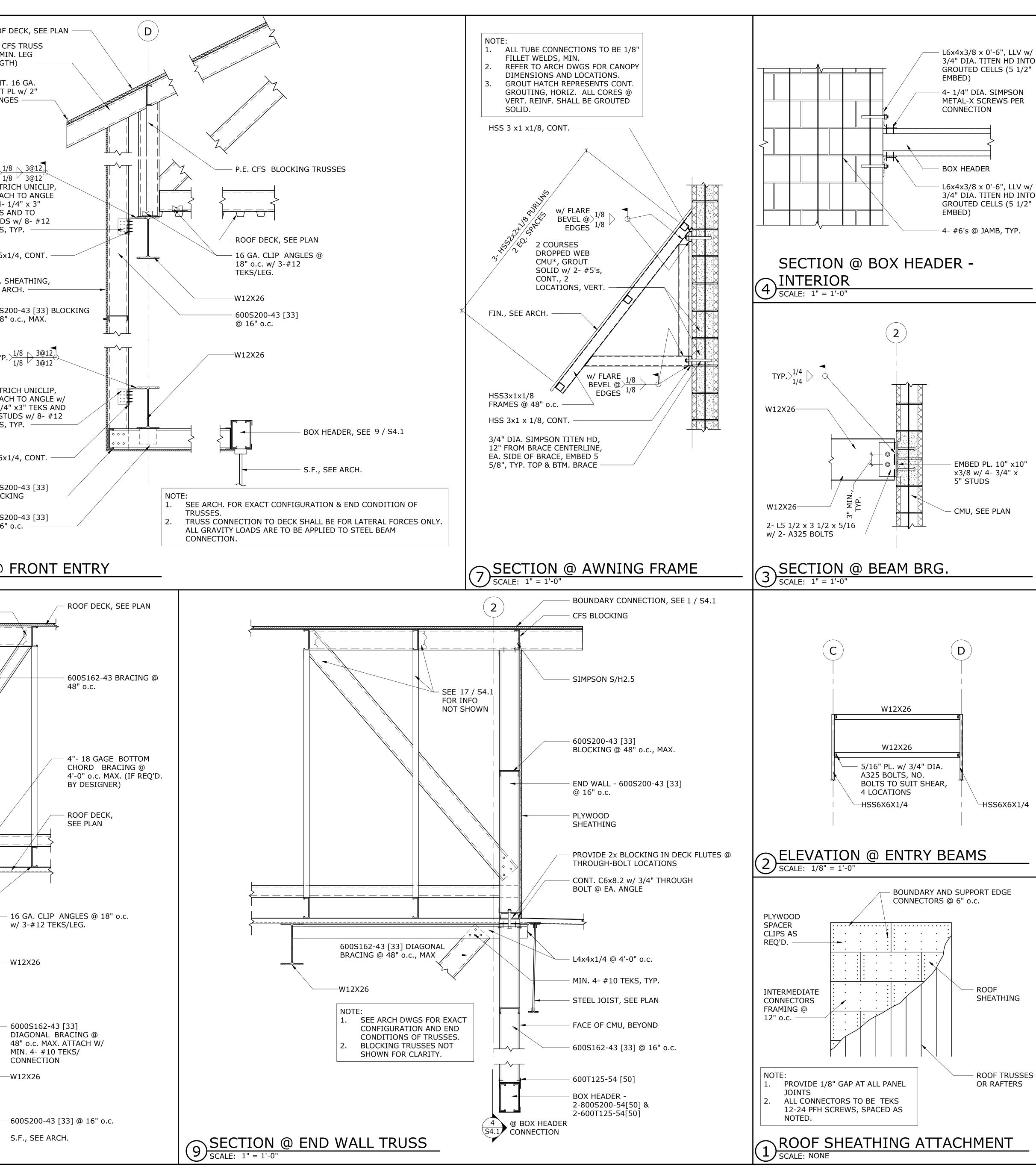


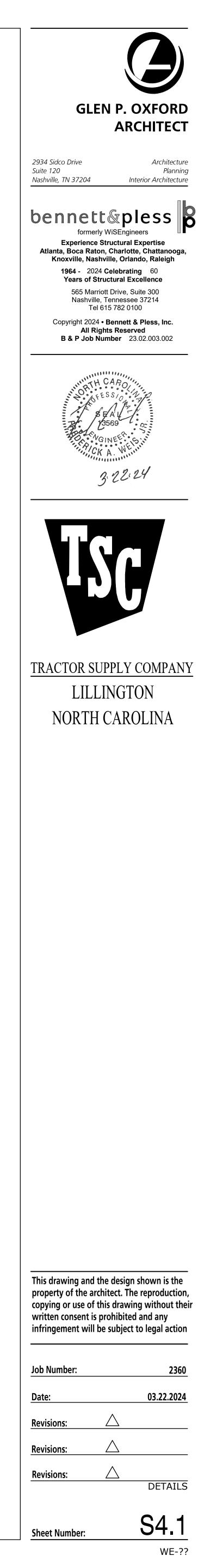


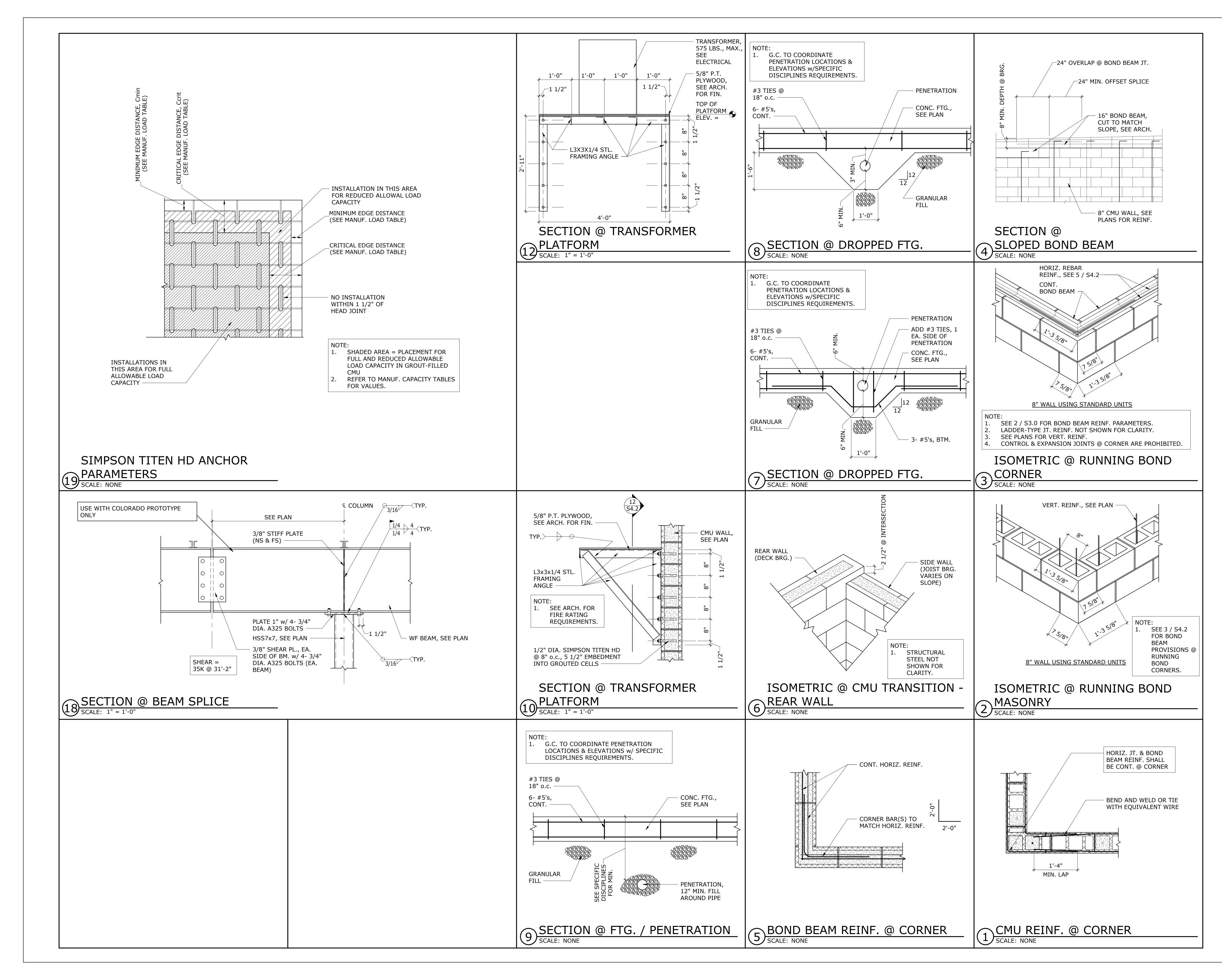


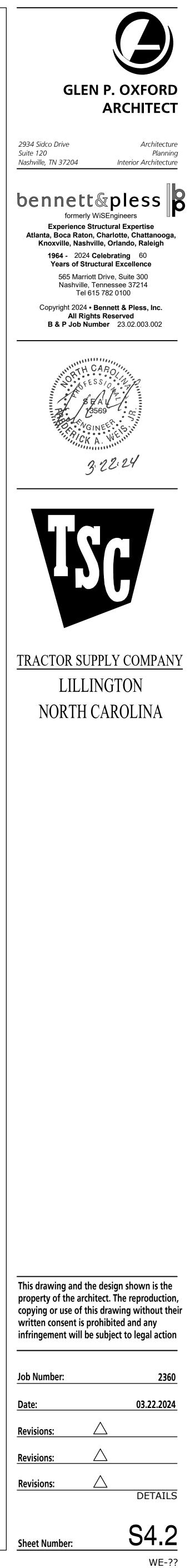


		ROOF
		P.E. CF (2" MI LENGT
		CONT. BENT F FLANG
		түр.> <u>1/</u> 1/
		DIETR ATTAC w/ 4- TEKS A STUDS TEKS,
		L5x5x3
		EXT. S SEE AF
		600S2 @ 48"
		TYP.
		DIETR ATTAC 4- 1/4 TO STU TEKS,
		L5x5x:
		600S2 BLOCk
		600S2 @ 16"
		<b>SECTION</b> (2) SCALE: 1" = 1'-0"
	BOUNDARY CONNECTION, SEE 1 / S4.1-	1 SIMPSON L50 ANGLES —
	600S162-43 [33] OUTRIGGERS @ 24" o.c. 600S200-43 [33] @ 16" o.c.	SIMPSON H2.5
	P.E. CFS DROPPED CHORD TRUSS (2" MIN. LEG LENGTH) 600S200-43 [33] BLOCKING @ 48" o.c., MAX.	
	P.E. CFS TRUSS	
	4- #10 TEKS TYP. $>\frac{1/8}{1/8} \rightarrow \frac{3@12}{3@12}$	
	DIETRICH UNICLIP, ATTACH TO ANGLE w/ 4- 1/4"x 3" TEKS AND TO STUDS w/ 8- #12 TEKS, TYP.	
	EXT. SHEATHING, SEE ARCH.	
	L5x5x1/4 CONT	
	TYP. $>\frac{1/8}{1/8} > \frac{3@12}{3@12}$	
NOTE: 1. SEE ARCH. FOR EXACT CONFIGURATION AND END CONDITION OF	DIETRICH UNICLIP, ATTACH TO ANGLE w/ 4- 1/4"x 3" TEKS AND TO STUDS w/ 8-#12 TEKS, TYP.	
1. SEE ARCH. FOR EXACT CONFIGURATION AND	ATTACH TO ANGLE w/ 4- 1/4"x 3" TEKS AND TO STUDS w/ 8-#12 TEKS,	



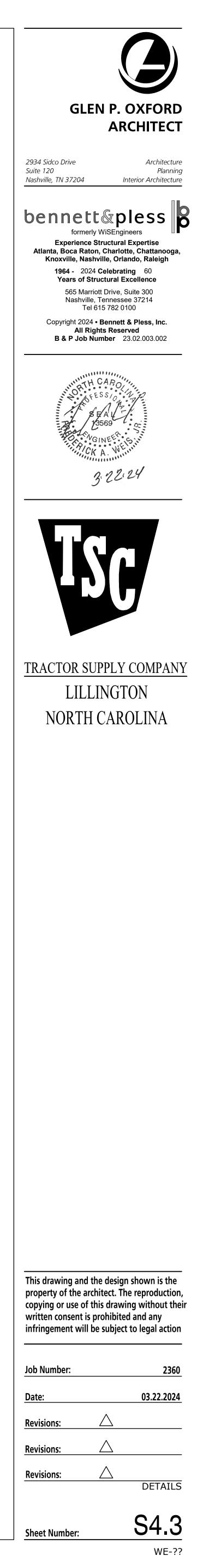






<b></b>		
		1
		PLAI
		PLAI 5 SCALE:

TITE PRO AS N OPEI JST.	B/4" DIA. SIMPSON SN HD, 5 1/2" EMBED, VIDE SHIM @ BOLT VEEDED N WEB STL. , SEE PLAN ONRY WALL, PLAN ex26
PLAN VIEW - VEST	DECK
CONNECTION SCALE: 1" = 1'-0"	
$\mathbf{J}$ SCALE: $\mathbf{I} = \mathbf{I} \cdot \mathbf{U}$	



### DESIGN AND CODE INFORMATION

- 1. ALL CONSTRUCTION SHALL CONFORM TO THE NORTH CAROLINA BUILDING CODE, 2018 EDITION (BASED ON THE INTERNATIONAL BUILDING CODE, 2015 EDITION).
- VERIFY EXISTING CONDITIONS AND ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY CONDITIONS WHICH CONFLICT WITH OTHER PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS. STRUCTURAL DRAWINGS ARE NOT INTENDED FOR BUILDING LAYOUT.
- SHOP DRAWINGS WILL NOT BE REVIEWED BY THE DESIGNER UNTIL AFTER THE GENERAL CONTRACTOR HAS THOROUGHLY REVIEWED THE SHOP DRAWINGS, VERIFIED EXISTING CONDITIONS, AND COORDINATED THE SHOP DRAWINGS WITH OTHER AFFECTED TRADES. SUBMIT FOUR COPIES OF REVIEWED DRAWINGS FOR ENGINEER'S REVIEW. ONLY THREE SETS OF MARKED UP SHOP DRAWINGS SHALL BE RETURNED BY THE DESIGNER. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
- THE STRUCTURE IS UNSTABLE UNTIL ALL LOAD BEARING WALLS ARE ERECTED AND STEEL MEMBERS ARE ERECTED, CONNECTIONS ARE COMPLETELY BOLTED AND/OR WELDED AND INSPECTED, THE STEEL DECK ATTACHED TO THE STEEL FRAMING, AND THE CONCRETE FLOORS PLACED AND ATTAINS 75% OF 28-DAY STRENGTH. UNTIL SUCH TIME, TEMPORARY BRACING IS REQUIRED. THE DESIGN ADEQUACY OF TEMPORARY BRACING AND SHORING IS THE SOLE **RESPONSIBILITY OF THE CONTRACTOR.**
- DO NOT SCALE STRUCTURAL DRAWINGS, AND FOR LOCATION OF MISCELLANEOUS ITEMS (OPENINGS, BENT PLATES, INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
- RISK CATEGORY: II
- LIVE LOADS: 100 PSF FLOORS: Α. STOCKROOM FLOOR: 250 PSF 20 PSF ROOFS
- **ROOF LOADS:**

9.

- GROUND SNOW LOAD:
- B. SNOW EXPOSURE Ce: SNOW IMPORTANCE I:
- D. THERMAL FACTOR:
- FLAT ROOF SNOW LOAD: 17 PSF F.
- WIND LOADS:
- BASIC WIND SPEED: Α.
- IMPORTANCE FACTOR: I=1.0 OCCUPANCY CATEGORY: II C.
- EXPOSURE CATEGORY:
- BASE SHEAR:

117 MPH (3-SEC GUST)

15 PSF

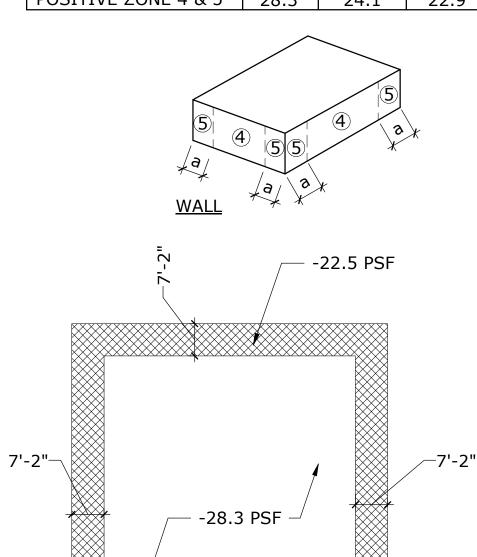
1.0

1.0

1.0

a. MAIN BUILDING: Vx = 99.6 KVY = 83.6 K

COMPONENTS & CLADDING (WALLS)					
	GCp +/- GCpi				
10 SF	100 SF	200 SF	500 SF		
-1.17	-1.01	-0.96	-0.90		
-1.44	-1.12	-1.03	-0.90		
1.08	0.92	0.87	0.81		
S	URFACE PF	RESSURE	(PSF)		
10 SF	100 SF	200 SF	500 SF		
-30.7	-26.5	-25.2	-23.6		
-37.7	-29.4	-26.9	-23.6		
28.3	24.1	22.9	21.2		
	10 SF -1.17 -1.44 1.08 S 10 SF -30.7 -37.7	GCp + 10 SF 100 SF -1.17 -1.01 -1.44 -1.12 1.08 0.92 SURFACE PF 10 SF 100 SF -30.7 -26.5 -37.7 -29.4	GCp +/- GCpi         10 SF       100 SF       200 SF         -1.17       -1.01       -0.96         -1.44       -1.12       -1.03         1.08       0.92       0.87         SURFACE PRESSURE         10 SF       100 SF       200 SF         -30.7       -26.5       -25.2         -37.7       -29.4       -26.9		



**ROOF - NET WIND UPLIFT PRESSURES** BASIC WIND SPEED: 117 MPH (3-SECOND GUST) EXPOSURE CATEGORY: C, Aeff > 100 SF FOR DL OF ROOF, USE 10 PSF

POSITIVE WIND PRESSURE : 16 PSF

## STRUCTURAL GENERAL NOTES

### **DESIGN AND CODE INFORMATION, CONT.**

- 10. SEISMIC DESIGN LOADS:
  - A. IMPORTANCE FACTOR: I = 1.0Β. RISK CATEGORY: II
  - MAPPED SPECTRAL RESPONSE ACCELERATIONS: C.
  - a. Ss = 0.183b. S1 = 0.086
  - SITE CLASS: D. D DESIGN SPECTRAL RESPONSE ACCELERATIONS:
  - a. SDs = 0.195
  - b. SD1 = 0.138DESIGN CATEGORY: С
  - BASIC SEISMIC FORCE RESISTING SYSTEM: MAIN BUILDING: G.
  - a. INTERMEDIATE REINFORCED MASONRY SHEAR WALLS DESIGN BASE SHEAR: 60.3 K
  - RESPONSE MODIFICATION FACTOR: R = 3.5
  - **REDUNDANCY FACTOR:** P = 1.0K. RESPONSE COEFFICIENT Cs: 0.056

### SPECIAL INSPECTIONS AND TESTING

THE OWNER SHALL EMPLOY AN INDEPENDENT TESTING COMPANY TO PERFORM THE INSPECTIONS AND TESTING AS INDICATED ON SHEETS S5.2 & S5.3.

### STRUCTURAL OBSERVATIONS

THE CONTRACTOR/OWNER SHALL EMPLOY A LICENSED STRUCTURAL ENGINEER OR ARCHITECT TO PERFORM PERIODIC VISUAL OBSERVATIONS OF THE STRUCTURE DUR CONSTRUCTION FOR GENERAL CONFORMANCE TO THE DESIGN DRAWINGS.

### **FOUNDATION NOTES**

- FOUNDATION DESIGN IS BASED ON A REPORT BY ECS SOUTHEAST, LLP, DATED SEPT 2023 (REPORT NO. 33:6534).
- THE CONTINUOUS AND ISOLATED FOOTINGS ARE DESIGNED TO BEAR ON NATURAL COMPACTED FILL CAPABLE OF SUPPORTING 2,000 PSF. THE BOTTOM OF ALL EXTERIO FOOTINGS SHALL BE 32" MINIMUM BELOW FINISHED GRADE. DESIGN ASSUMES DIF AND TOTAL SETTLEMENT ARE WITHIN ACCEPTED TOLERANCES FOR THE TYPE OF CONSTRUCTION USED. A. SUPPLEMENTAL GEOTECHNICAL RECOMMENDATIONS ARE NEEDED TO GET EXAM
- RECOMMENDATIONS FOR SYSTEM DESIRED
- WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAI 3. THE EXCAVATIONS SHALL BE UNDERCUT AND A 3 INCH THICK MUD MAT OF 2000 PS CONCRETE SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS.
- 4. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERT HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.

#### DELEGATED DESIGN

- THE FOLLOWING ELEMENTS SHALL BE CONSIDERED DELEGATED DESIGN AND SHALL SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS PREPARED BY A PROFES ENGINEER LICENSED IN THE PROJECT STATE. A. PRE-ENGINEERED METAL BUILDING
- B. PRE-ENGINEERED TRUSSES
- C. STOREFRONT OPENING SYSTEMS.
- D. LIVE GOODS FRAMING AND FOUNDATION
- STRUCTURAL SUBMITTALS
- CONCRETE MIX DESIGNS
- CONCRETE REINFORCING FOR ALL FOUNDATION COMPONENTS
- CONCRETE MASONRY UNIT (CMU) REINFORCING FOR ALL MASONRY PORTIONS OF TH CONCRETE MASONRY UNIT (CMU) AND ACCESSORY PRODUCT DATA INCLUDING: 4.
- a. COMPOSITION AND LEGACY TESTING DATA FOR CMU
- COMPOSITION AND LEGACY TESTING DATA FOR MORTAR b. COMPOSITION AND LEGACY TESTING DATA FOR GROUT
- d. LADDER-TYPE JOINT REINFORCING
- e. JOINT AND JOINT COVER MATERIAL
- 5. STRUCTURAL STEEL COLUMNS, BASE PLATES, CAP PLATES, SHEAR PLATES, CONNECT BETWEEN / AMONG ALL STRUCTURAL STEEL MEMBERS.
- STRUCTURAL STEEL JOIST AND DECK, INCLUDING LAYOUT, COMPOSITION, AND CON 6 COLD FORMED STEEL (CFS) PRE-ENGINEERED TRUSSES: a. MATERIALS
- DESIGN DRAWINGS, STAMPED BY THE TRUSS DESIGNER, LICENSED IN THE PROJECT b. STATE NON-LOAD BEARING COLD FORMED STEEL (CFS) PRE-ENGINEERED STUDS AND JOISTS. 8.

#### **REINFORCED CONCRETE**

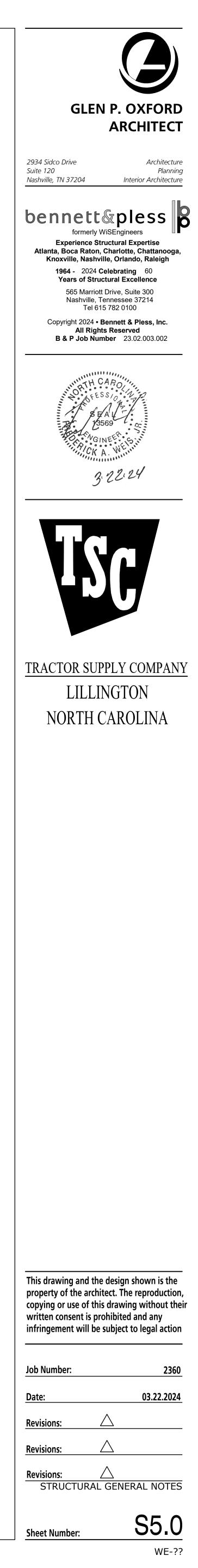
- ALL CONCRETE WORK SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318-14.
- REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A-615 (GRADE 60). 2.
- THE COMPRESSIVE STRENGTH AT 28 DAYS OF ALL CAST IN PLACE CONCRETE SHALL BE 4000 3. PSI USING TYPE I, II, I/II, OR IL PORTLAND CEMENT. SEE CIVIL DRAWINGS FOR SITE CONCRETE. FOUNDATION CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- 4. LAP SPLICES FOR REINFORCING BARS SHALL BE CLASS B IN ACCORDANCE WITH ACI 318-14, UNLESS NOTED OTHERWISE.
- CLEAR CONCRETE COVER FOR REINFORCING STEEL: 5 2" EXTERIOR FACES A. WALLS

		3/4" INTERIOR FACES
В.	MASONRY WALLS	LOCATE IN CENTER OF WALL (U.N.O.)
C.	SLAB ON GRADE	3/4" TOP STEEL
		1 1/2" BOTTOM STEEL
D.	FOOTINGS	2" FORMED EDGES

- 6. THE LONGITUDINAL REINFORCING STEEL IN BOND BEAMS, WALLS, AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYPICAL DETAILS.
- 7. MECHANICAL VIBRATORS SHALL VIBRATE ALL CONCRETE.
- UNLESS OTHERWISE DIRECTED BY THE OWNER, CONCRETE SLABS SHALL BE FINISHED TO THE 8. FLATNESS CRITERIA NOTED IN THE CONCRETE SPECIFICATIONS ON SHEET S5.4, UNDER SECTION 3.04 - "CONCRETE FLOOR FINISHES AND TOLERANCES"
- CONCRETE TESTING REPORTS SHALL BE KEPT ON FILE AT THE JOB SITE. 9.

	STR	UCTURAL STEEL
	1.	ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE ANSI/AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
	2.	STRUCTURAL STEEL ROLLED SHAPES SHALL BE ASTM A-992 GRADE 50 UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PLATES AND ANGLES SHALL BE ASTM A-36.
	3.	STRUCTURAL PIPE COLUMNS SHALL BE ASTM A500 ROUND, TYPE E OR S, GRADE C. STRUCTURAL TUBES SHALL BE ASTM A500, GRADE C.
	4.	NON-SHRINK GROUT FOR PLACEMENT BELOW ALL STRUCTURAL STEEL BASE PLATES SHALL BE NON-SHRINK GROUT PROVIDED SPECIFICALLY FOR USE BELOW STRUCTURAL STEEL BASE PLATES AND ACHIEVE A COMPRESSIVE STRENGTH OF 10,000 PSI AT 28 DAYS. GROUT BELOW BASE PLATES SHALL CONFORM TO ASTM C-109.
	5.	FRAMED BEAM CONNECTIONS SHALL DE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER EMPLOYED BY THE FABRICATOR TO DEVELOP THE BEAM REACTIONS SHOWN ON STRUCTURAL PLANS. IN NO CASE SHALL THE LENGTH OF THE FRAMED CONNECTION BE LESS THAN 1/2 THE "T" DIMENSION OF THE BEAM WEB. WHERE REACTIONS ARE NOT SHOWN, THE BEAM END CONNECTIONS SHALL DEVELOP ONE HALF THE MAXIMUM ALLOWABLE UNIFORM LOAD FOR THE BEAM ASSUMING THE BEAM IS CONTINUOUSLY SUPPORTED LATERALLY.
ON SITE	6.	STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED. BOLTS SHALL BE 3/4 INCH DIAMETER MINIMUM AND SHALL BE ASTM A-325-N, UNLESS NOTED OTHERWISE.
	7.	USE CALIBRATED WRENCHES OR DIRECT TENSION INDICATORS AND HARDENED WASHERS WITH ALL HIGH STRENGTH BOLTS OR USE LOAD INDICATOR BOLTS.
JRING	8.	STEEL JOISTS SHALL BE CAMBERED PER STEEL JOIST INSTITUTE SPECIFICATIONS. STEEL JOIST SHALL ALSO BE DESIGNED TO RESIST THE NEW WIND UPLIFT LOADS INDICATED ON UPLIFT PRESSURES DIAGRAM, THIS SHEET. FOR UPLIFT CALCULATIONS, DEAD LOAD OF ROOFING SYSTEM AND STEEL DECK IS ASSUMED TO BE 10 PSF.
	9.	METAL DECK SHALL BE INSTALLED IN ACCORDANCE WITH THE STEEL DECK INSTITUTE SPECIFICATIONS, LATEST EDITION.
PTEMBER 1,	10.	WELD WASHERS SHALL BE USED WITH METAL DECK THINNER THAN 22 GAUGE.
- SOILS OR IOR IFFERENTIAL	11.	ANCHOR BOLTS SHALL BE F1554, GR 55 SUPPLEMENT 1 (WELDABLE) HEADED BOLTS. MINIMUM ANCHOR BOLT EMBEDMENT SHALL BE 12 BOLT DIAMETERS UNLESS NOTED OTHERWISE. CLEAN ANCHOR BOLTS OF ALL GREASE, DIRT, ETC., BEFORE INSTALLATION.
ACT	12.	FRAMED BEAM CONNECTIONS SHALL DEVELOP ONE HALF OF THE ALLOWABLE UNIFORM LOAD FOR LATERALLY SUPPORTED BEAMS AS SHOWN IN PART 2 OF THE AISC MANUAL. IN NO CASE SHALL THE LENGTH OF THE CONNECTION BE LESS THAN THE "T" DIMENSION.
AINFALL, SI	13.	WELDS SHOWN ON THE STRUCTURAL DRAWINGS ARE THE MINIMUM REQUIRED BY DESIGN. THE FABRICATOR'S DRAWINGS SHALL SHOW WELDS AND THEY SHALL CONFORM TO AWS D1.1 STRUCTURAL WELDING CODE BY THE AMERICAN WELDING SOCIETY. ALL WELDING SHALL BE DONE WITH E-70 SERIES ELECTRODES.
TICAL TO 2	14.	HARDENED WASHERS SHALL BE INSTALLED OVER SHORT SLOTTED OR OVERSIZE HOLES OCCURRING IN AN OUTER PLY OF A CONNECTION.
L REQUIRE SSIONAL	15.	THE STEEL JOIST & JOIST GIRDER MANUFACTURER SHALL DESIGN THE JOISTS & JOIST GIRDERS FOR A NET UPLIFT FORCE AS SHOWN ON THE UPLIFT DIAGRAM ON THIS SHEET, AND SHALL FURNISH THE NECESSARY FRAMING TO ENSURE PROPER JOIST & JOIST GIRDER PERFORMANCE UNDER UPLIFT DUE TO WIND AS WELL AS GRAVITY LOADING CONDITIONS.
	16.	PROVIDE SPECIAL JOIST SEATS WHERE REQUIRED BY NARROW BEARING CONDITIONS.
	17.	PAINT ALL STRUCTURAL STEEL WITH ONE COAT OF RUST-INHIBITIVE PRIMER 2.5 MILS IN THICKNESS. THE COMPATIBILITY OF PRIMER AND ANY TOP COAT SHALL BE VERIFIED BEFORE ANY PAINTING IS PERFORMED. TOUCH-UP ALL EXPOSED METAL AFTER FIELD INSTALLATION. ALL STRUCTURAL STEEL WHICH IS EXPOSED TO THE ELEMENTS SHALL RECEIVE TWO COATS OF EXTERIOR ENAMEL WHICH IS COMPATIBLE WITH THE PRIMED SURFACE.
THE WORK.	18.	STRUCTURAL STEEL SHOP DRAWINGS SHALL INCLUDE COMPLETE DETAILS, CONNECTIONS, AND SCHEDULES FOR FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS. STRUCTURAL STEEL SHOP DRAWINGS SHALL NOT INCLUDE MISCELLANEOUS STEEL. SHOP DRAWINGS WILL NOT BE REVIEWED BY THE DESIGNER UNTIL AFTER THE GENERAL CONTRACTOR HAS THOROUGHLY REVIEWED THE SHOP DRAWINGS, AND COORDINATED THE SHOP DRAWINGS WITH OTHER AFFECTED TRADES. ONLY THREE SETS OF MARKED UP SHOP DRAWINGS SHALL BE RETURNED BY THE DESIGNER. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
CTIONS	19.	STEEL JOISTS AND JOIST GIRDER SHOP DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A
NNECTIONS.		REGISTERED ENGINEER IN THE PROJECT STATE CONFIRMING THE DESIGN OF JOISTS AND JOIST GIRDERS TO SJI SPECIFICATIONS AND FOR ALL LOADINGS SPECIFIED ON THE DRAWINGS. STEEL JOISTS SHOP DRAWINGS SHALL BE REVIEWED BY THE STRUCTURAL STEEL SUBCONTRACTOR PRIOR

TO ENGINEER'S REVIEW.



	ST INSTALLED	O ANCHORS IN	CHORS AND ADHESIVES SHALL HAVE VALID AND CURRENT I S, FOR PRODUCTS OTHER THAN THOSE SPECIFIED, SHALL B JRAL ENGINEER OF RECORD WITH CALCULATIONS THAT ARI N PROFESSIONAL IN THE STATE IN WHICH THE PROJECT IS PRODUCT WILL ACHIEVE AN EQUIVALENT CAPACITY USING 'UIRED BY THE REFERENCED BUILDING CODE. OR CONCRETE AS SHOWN ON THE CONSTRUCTION DOCUME WITHIN THE CONTRACT DOCUMENTS. NUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, THI 'ULOWED FOR INSTALLATION OF ADHESIVE ANCHORS: S SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM A LATION. S SHALL BE INSTALLED IN DRY CONCRETE, AND DURING DR S SHALL BE INSTALLED IN DRY CONCRETE, AND DURING DR S SHALL BE INSTALLED IN NOT CONCRETE, AND DURING DR S SHALL BE INSTALLED WITHIN THE TEMPERATURE RANGES S UNTIL THE FULL CURING TIME ASSOCIATED WITH THE INS ELAPSED. IVE ANCHORS SHALL BE PERFORMED BY PERSONNEL CERTIT A. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORM. ACI/CRSI ADHESIVE ANCHORS INSTALLER CERTIFICATION SPECTIONS SHALL BE PROVIDED FOR POST-INSTALLED AND AND/OR EVALUATION REPORT, UNLESS MORE SPECIFIC REQ RUCTION DOCUMENTS. ALL CONFORM TO TMS 402-16, "BUILDING CODE REQUIREMING 602-16, "SPECIFICATIONS FOR MASONRY STRUCTURES," AN TH (F'M) OF 2,000 PSI. . JOINTS SHALL BE LOCATED AS SHOWN ON THE ARCHITEC CONFORM WITH ASTM C90 "STANDARD SPECIFICATIONS FOI TS" AND HAVE MINIMUM AVERAGE NET-AREA COMPRESSIVI IAVE AN AVERAGE DENSITY WITHIN THE RANGE OF 105 TO CRETE MASONRY CELLS SHALL CONFORM TO ASTM C476-09 UT FOR MASONRY," AND SHALL LONFORM TO ASTM C476-09 UT FOR MASONRY," AND SHALL LONFORM TO ASTM C476-09 UT FOR MASONRY, CELLS SHALL CONFORM TO ASTM C476-09 UT FOR MASONRY, CELLS SHALL CONFORM TO ASTM C476-09 UT FOR MASONRY, CELLS SHALL CONFORM TO ASTM C476-09 UT FOR MASONRY CELLS SHALL CONFORM TO ASTM C476-09 UT FOR MASONRY CELLS SHALL CONFOR		
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2.	ALL POST IN	STALLED ANCH	ORS AND ADHES	SIVES SHALL HAVE VALID AND CURR	ENT
3.	ARCHITECT A BY A REGIST THAT THE SU	AND STRUCTUR ERED DESIGN F JBSTITUTED PRO	AL ENGINEER O PROFESSIONAL ODUCT WILL AC	F RECORD WITH CALCULATIONS THA IN THE STATE IN WHICH THE PROJEC HIEVE AN EQUIVALENT CAPACITY US	T AR
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6.	CERTIFICATI	ON PROGRAM. ( E WITH THE AC	CERTIFICATION	SHALL INCLUDE WRITTEN AND PERF	ORM
7.	WITH THE AI	NCHOR MPII AN	D/OR EVALUATI	ON REPORT, UNLESS MORE SPECIFIC	
сог	NCRETE MASC	DNRY			
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2.					
3.	CONCRETE M	ASONRY UNITS	" AND HAVE MI	NIMUM AVERAGE NET-AREA COMPRES	SSIV
4.	SPECIFICATI 3000 PSI AT DIMENSION	ON FOR GROUT 28 DAYS. THE S	FOR MASONRY SLUMP SHALL B IUOUS VERTICA	," AND SHALL HAVE A COMPRESSIVE E BETWEEN 9 INCHES AND 11 INCHE	PRIS S. W
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6.				IN LIFTS NOT TO EXCEED 4 FEET PR	IOR
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7. 8.	KEY NEXT GF ALL REINFOF HOOKS AND REINFORCEN PLANS FOR F MASONRY LA CONCF REIN LENG BAR SIZE #3 #4	ROUT LIFT INTO RCING BARS IN DOWELED 7 IN MENT IN WALLS REINFORCING. AP SPLICES: SEE RETE MA FORCING TH SCHE 8" WALL 16" 21"	PRIOR LIFT BY FILLED CELLS S CHES INTO BON SHALL BE PLAC TABLE BELOW SONRY G LAP EDULE 12" WALL 16" 21"	IN LIFTS NOT TO EXCEED 4 FEET PR STOPPING FIRST LIFT 2" BELOW TOF HALL BE DOWELED INTO FOOTINGS ID BEAMS AT TOP OF WALLS. ED IN THE CENTER OF THE WALL UNI MIN THE CENTER OF THE WALL UNI MIN. DIA. 6d NOTE: 1. d= BAR DIAMETER. BARS REQUIRED TO BE FIELD BENT SHALL BE BENT COLD	IOR <sup>-</sup> P OF WITH
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7. 8. 9.	KEY NEXT GE ALL REINFOF HOOKS AND REINFORCEN PLANS FOR F MASONRY LA CONCE BAR SIZE #3 #4 #4 #5 #6 #7 FE: HERE DROPPED DPED WEB MA ENSURE STOPF	ROUT LIFT INTO RCING BARS IN DOWELED 7 IN MENT IN WALLS REINFORCING. AP SPLICES: SEE <b>RETE MA</b> <b>FORCING</b> 8" WALL 16" 21" 26" 43" 60"	PRIOR LIFT BY FILLED CELLS S CHES INTO BON SHALL BE PLAC TABLE BELOW SONRY G LAP DULE 12" WALL 16" 21" 26" 40" 40" 46" CIS INDICATED	IN LIFTS NOT TO EXCEED 4 FEET PR STOPPING FIRST LIFT 2" BELOW TOP HALL BE DOWELED INTO FOOTINGS ID BEAMS AT TOP OF WALLS. ED IN THE CENTER OF THE WALL UNI MIN. THE CENTER OF THE WALL UNI MIN. DIA. 6d NOTE: 1. d= BAR DIAMETER. BARS REQUIRED TO BE FIELD BENT SHALL BE BENT COLD TO THE MINIMUM DIAMETER SPECIFIED. FIELD BENDING IN EXCESS OF A 90 DEGREE BEND IS PROHIBITED.	
7. 8. 9.	KEY NEXT GE ALL REINFOF HOOKS AND REINFORCEN PLANS FOR F MASONRY LA CONCF REIN LENG BAR SIZE #3 #4 #4 #5 #6 #7 FE: HERE DROPPED WEB MA ENSURE STOPF E-ENGINEERE ROOF TRUSS A. TOP CH	ROUT LIFT INTO RCING BARS IN DOWELED 7 IN MENT IN WALLS REINFORCING. AP SPLICES: SEE <b>RETE MA</b> <b>FORCING</b> 8" WALL 16" 21" 26" 43" 60" OWEB MASONRY 50 FOR PASSAG SONRY IS USED PAGE OF GROUT <b>D COLD FORM</b>	PRIOR LIFT BY FILLED CELLS S CHES INTO BON SHALL BE PLAC TABLE BELOW SOUNDE ACI 12" WALL 16" 12" WALL 16" 12" WALL 16" 21" 26" 40" 40" 46" CIS INDICATED E OF GROUT & O, PROVIDE ACI TO CELLS BELC	IN LIFTS NOT TO EXCEED 4 FEET PR STOPPING FIRST LIFT 2" BELOW TOF HALL BE DOWELED INTO FOOTINGS ID BEAMS AT TOP OF WALLS. ED IN THE CENTER OF THE WALL UNI MIN. DIA. 6d NOTE: 1. d= BAR DIAMETER. BARS REQUIRED TO BE FIELD BENT SHALL BE BENT COLD TO THE MINIMUM DIAMETER SPECIFIED. FIELD BENDING IN EXCESS OF A 90 DEGREE BEND IS PROHIBITED. , MASONRY BOND BEAMS WITH U-N REINFORCING MAY BE SUBSTITUTED APPROVED SCREENING/GROUT RETE DW WHERE LIMIT OF GROUTED CELLS SSES	IOR P OF WITH LESS
7. 8. 9. 9.	KEY NEXT GE ALL REINFOF HOOKS AND REINFORCEN PLANS FOR F MASONRY LA COONCF REIN LENG BAR SIZE #3 #4 #4 #5 #6 #7 FE: HERE DROPPED WEB MA ENSURE STOPF E-ENGINEERE ROOF TRUSS A. TOP CH B. BOTTO IN ADDITION	ROUT LIFT INTO RCING BARS IN DOWELED 7 IN AN SENT IN WALLS RENT IN WALLS RETE MA FORCING. AP SPLICES: SEE RETE MA FORCING TH SCHE 8" WALL 16" 21" 26" 43" 60" D WEB MASONRY ED FOR PASSAG SONRY IS USEE PAGE OF GROUT D COLD FORMI SES SHALL BE D IORD: M CHORD: N TO UNIFORM I NTRATED LOADS	PRIOR LIFT BY FILLED CELLS S CHES INTO BON SHALL BE PLAC TABLE BELOW SONRY G LAP DULE 12" WALL 16" 12" WALL 16" 21" 26" 40" 40" 46" CIS INDICATED E OF GROUT & O, PROVIDE ACI TO CELLS BELC ESIGNED TO SU DEAD LOAD - 1 DEAD LOAD - 1 DEAD LOAD - 1	IN LIFTS NOT TO EXCEED 4 FEET PR STOPPING FIRST LIFT 2" BELOW TOF HALL BE DOWELED INTO FOOTINGS ID BEAMS AT TOP OF WALLS. ED IN THE CENTER OF THE WALL UNI MIN. DIA. 6d NOTE: 1. d= BAR DIAMETER. BARS REQUIRED TO BE FIELD BENT SHALL BE BENT COLD TO THE MINIMUM DIAMETER SPECIFIED. FIELD BENDING IN EXCESS OF A 90 DEGREE BEND IS PROHIBITED. , MASONRY BOND BEAMS WITH U-N REINFORCING MAY BE SUBSTITUTED APPROVED SCREENING/GROUT RETE DW WHERE LIMIT OF GROUTED CELLS SSES	IOR P OF WITH LESS
7. 8. 9. 9. NOT *WH BOT DRC TO 1. 2. 3.	KEY NEXT GE ALL REINFOR HOOKS AND REINFORCEN PLANS FOR F MASONRY LA COONCE REIN LENG BAR SIZE #3 #4 #4 #5 #6 #7 FE: HERE DROPPED WEB MA ENSURE STOPF DPED WEB MA ENSURE STOPF SEE ARCHITE	ROUT LIFT INTO RCING BARS IN DOWELED 7 IN MENT IN WALLS REINFORCING. AP SPLICES: SEE <b>RETE MA</b> <b>FORCING</b> <b>B</b> " WALL 16" 21" 26" 43" 60" O WEB MASONRY SONRY IS USED AGE OF GROUT <b>D COLD FORM</b> SONRY IS USED AGE OF GROUT <b>D COLD FORM</b> SS SHALL BE D IORD: M CHORD: N TO UNIFORM IN NTO UNIFORM IN N	PRIOR LIFT BY FILLED CELLS S CHES INTO BON SHALL BE PLAC TABLE BELOW SONRY G LAP DULE 12" WALL 16" 12" WALL 16" 21" 26" 40" 40" 46" CIS INDICATED E OF GROUT & O, PROVIDE ACI TO CELLS BELO ED STEEL TRUE ESIGNED TO SU DEAD LOAD - 1 DEAD LOAD	IN LIFTS NOT TO EXCEED 4 FEET PR STOPPING FIRST LIFT 2" BELOW TOP HALL BE DOWELED INTO FOOTINGS ID BEAMS AT TOP OF WALLS. ED IN THE CENTER OF THE WALL UNI MIN. DIA 60 MIN. DIA. 60 NOTE: 1. d = BAR DIAMETER. BARS REQUIRED TO BE FIELD BENT SHALL BE BENT COLD TO THE MINIMUM DIAMETER SPECIFIED. FIELD BENDING IN EXCESS OF A 90 DEGREE BEND IS PROHIBITED. , MASONRY BOND BEAMS WITH U-N REINFORCING MAY BE SUBSTITUTED APPROVED SCREENING/GROUT RETE W WHERE LIMIT OF GROUTED CELLS SSES IPPORT THE FOLLOWING LOADS: 7 PSF LIVE LOAD - 20 PSF SNOW LIPSF FIED FOR TRUSS DESIGN, THE TRUSS CCHITECTURAL FEATURES OR MECHAN	IOR P OF WITH LESS OTCH S ARE OAD S SU NICA
7. 8. 9. 9. 9. 9. 9. 1.	KEY NEXT GE ALL REINFOR HOOKS AND REINFORCEN PLANS FOR F MASONRY LA CONCE REIN LENG BAR SIZE #3 #4 #4 #5 #6 #7 FE: HERE DROPPED WEB MA ENSURE STOPF DPPED WEB MA ENSURE STOPF CONS REMOVE DPPED WEB MA ENSURE STOPF ENSURE STOPF SEE ARCHITE A REGISTERI THE SUPPOR ENGINEER'S	ROUT LIFT INTO RCING BARS IN DOWELED 7 IN AN ENT IN WALLS RENT IN WALLS REINFORCING. AP SPLICES: SEE <b>RETE MA</b> <b>FORCING</b> <b>8</b> " WALL 16" 21" 26" 43" 60" O WEB MASONRY ED FOR PASSAG SONRY IS USEE PAGE OF GROUT <b>D COLD FORM</b> SES SHALL BE D ORD: M CHORD: N TO UNIFORM IN SES SHALL BE D IORD: M CHORD: N TO UNIFORM IN SEAL AND SIGN	PRIOR LIFT BY FILLED CELLS S CHES INTO BON SHALL BE PLAC TABLE BELOW SONRY GLAP DULE 12" WALL 16" 12" WALL 16" 12" WALL 16" 21" 26" 40" 46" CIS INDICATED OF GROUT &	IN LIFTS NOT TO EXCEED 4 FEET PR STOPPING FIRST LIFT 2" BELOW TOP HALL BE DOWELED INTO FOOTINGS ID BEAMS AT TOP OF WALLS. ED IN THE CENTER OF THE WALL UNIT MIN. DIA 60 MIN. DIA. 60 NOTE: 1. d= BAR DIAMETER. BARS REQUIRED TO BE FIELD BENT SHALL BE BENT COLD TO THE MINIMUM DIAMETER SPECIFIED. FIELD BENDING IN EXCESS OF A 90 DEGREE BEND IS PROHIBITED. , MASONRY BOND BEAMS WITH U-N REINFORCING MAY BE SUBSTITUTED APPROVED SCREENING/GROUT RETE DW WHERE LIMIT OF GROUTED CELLS SSES IPPORT THE FOLLOWING LOADS: 7 PSF LIVE LOAD - 20 PSF SNOW LIPS FIED FOR TRUSS DESIGN, THE TRUSS CHITECTURAL FEATURES OR MECHAI	IOR POF WITH LESS LESS OAD OTCH NICA S SU NICA RING AND

# STRUCTURAL GENERAL NOTES,

CONT.

AND ADHESIVE ANCHOR REINFORCING	COLD FORMED STUDS (CFS)
CING STEEL SHALL ONLY BE USED WHERE CONTRACTOR SHALL OBTAIN APPROVAL POST INSTALLED ANCHORS FOR MISSING TO AVOID CONFLICTS WITH EXISTING MANUFACTURER'S PRINTED INSTALLATION WITH THE MANUFACTURER'S PRINTED	<ol> <li>ALL WORK SHALL CONFORM WITH THE FOLLOWING STAND         <ul> <li>A. AISI S100-07/SI-10, "NORTH AMERICAN SPECIFICATI FORMED STEEL STRUCTURAL MEMBERS, WITH SUPPLE</li> <li>B. AISI S200-07, "NORTH AMERICAN STANDARD FOR CO GENERAL PROVISIONS."</li> <li>C. AISI S210-07, "NORTH AMERICAN STANDARD FOR CO FLOOR AND ROOF SYSTEM DESIGN."</li> <li>D. AISI S211-07, "NORTH AMERICAN STANDARD FOR CO</li> </ul> </li> </ol>
SPECIFIED, SHALL BE SUBMITTED TO THE JLATIONS THAT ARE PREPARED AND SEALED THE PROJECT IS LOCATED SHOWING CAPACITY USING THE APPROPRIATE	WALL STUD DESIGN." E. AISI S212-07, "NORTH AMERICAN STANDARD FOR CO HEADER DESIGN." F. AISI S213-07/SI-10 "NORTH AMERICAN STANDARD F FRAMING - LATERAL DESIGN, WITH SUPPLEMENT 1, D
ODE. TRUCTION DOCUMENTS SHALL BE	<ol> <li>COMPONENT SECTION PROPERTIES INCLUDING, BUT NOT L OF INERTIA (Ix AND Iy) AND RADIUS OF GYRATION (Rx, Ry PUBLISHED VALUES BY CLARKDIETRICH BUILDING SYSTEM INDICATED.</li> </ol>
INSTRUCTIONS, THE FOLLOWING WE ANCHORS: WING A MINIMUM AGE OF 21 DAYS AT TIME TE, AND DURING DRY CONDITIONS. ILLED WITH A CARBIDE TIPPED DRILL BIT. PERATURE RANGE SPECIFIED IN THE BUT NOT OUTSIDE OF THE DESIGN ATURE RANGE IS 75 DEGREES FAHRENHEIT I)) LOADS SHALL NOT BE APPLIED TO ATED WITH THE INSTALLATION	<ol> <li>PROVIDE FRAMING ACCESSORIES THAT MEET OR EXCEED F CLARKDIETRICH BUILDING SYSTEMS. THESE PRODUCTS M/ LIMITED TO:</li> <li>A. SUPPLEMENTARY FRAMING.</li> <li>B. BRACING, BRIDGING, AND SOLID BLOCKING.</li> <li>C. ANCHOR CLIPS.</li> <li>D. END CLIPS.</li> <li>E. FOUNDATION CLIPS.</li> <li>F. GUSSET PLATES.</li> <li>G. STUD KICKERS AND KNEE BRACES.</li> <li>H. JOIST HANGERS AND END CLOSURES.</li> <li>I. HOLE REINFORCING PLATES.</li> </ol>
PERSONNEL CERTIFIED BY AN APPLICABLE TEN AND PERFORMANCE TESTS IN ER CERTIFICATION PROGRAM, OR	<ul> <li>J. BACKER PLATES.</li> <li>4. OTHER CONNECTORS FROM SIMPSON STRONG-TIE COMPAI DRAWINGS.</li> </ul>
OST-INSTALLED ANCHORS IN ACCORDANCE 10RE SPECIFIC REQUIREMENTS ARE	5. SCREWS SHALL BE SELF-DRILLING, SELF-TAPPING STEEL S C1513. GALVANIZED, PLATED OR OIL-PHOSPHATE COATING B633 AND BE PROVIDED AS NEEDED FOR REQUIRED CORR
G CODE REQUIREMENTS FOR MASONRY Y STRUCTURES," AND SHALL HAVE A	<ol> <li>WELDING IS PERMITTED ON 18 GAUGE OR HEAVIER MATER OPERATORS SHALL BE QUALIFIED IN ACCORDANCE WITH A WELDING CODE—SHEET METAL." TOUCH UP ALL WELDS WI COMPLIANCE WITH ASTM A780.</li> <li>THE JOIST ENDS SHALL BE REINFORCED TO ADEQUATELY S</li> </ol>
ON THE ARCHITECTURAL DRAWINGS.	TRANSFER LOADS TO THE SUPPORTS. MINIMUM END BEAR
PECIFICATIONS FOR LOADBEARING AREA COMPRESSIVE STRENGTH OF 2150 PSI. RANGE OF 105 TO 125 POUNDS PER CUBIC 1 TO ASTM C476-09, "STANDARD	8. STUDS SHALL SIT SQUARELY IN THE TOP AND BOTTOM RUL ABUTMENT AGAINST TRACK WEBS. STUDS SHALL BE ALIGN SECURELY FASTENED TO THE FLANGES OF BOTH TOP AND STUDS SHALL BE POSITIONED IN THE RUNNER TRACK SO A BELOW FLOOR ROOF OR CEILING FRAMING MEMBERS OVER AND DIRECTLY TRANSFER LOADS FROM FLOOR OR ROOF FLO OPENINGS) TO THE STUDS, LINTELS SHALL BE PROVIDED.
COMPRESSIVE PRISM STRENGTH (F'M) OF AND 11 INCHES. WHERE THE MINIMUM R LESS, USE FINE GROUT. OTHERWISE, USE	9. JOINING OF FRAMING MEMBERS SHALL BE MADE WITH SEL WELDING. WIRE TYING OF FRAMING MEMBERS IN STRUCTU BE PERMITTED.
_ CONFORM TO ASTM C270-08, MINIMUM COMPRESSIVE STRENGTH OF 1800	10. SPLICES IN STEEL JOISTS OR STUDS SHALL NOT BE PERMI
EED 4 FEET PRIOR TO GROUTING CORES. 2" BELOW TOP OF BLOCK.	<ol> <li>DURING ERECTION, THE CONTRACTOR SHALL PROVIDE ME DISTRIBUTION OF CONCENTRATED LOADS SO THAT THE LO ANY STEEL MEMBER IS NOT EXCEEDED.</li> <li>PERFORMANCE REQUIREMENTS</li> </ol>
TO FOOTINGS WITH STANDARD 90-DEGREE VALLS.	A. CALCULATE STRUCTURAL PROPERTIES PER AISI - SPE OF COLD-FORMED STEEL STRUCTURAL MEMBERS, 200
THE WALL UNLESS NOTED OTHERWISE. SEE	<ul> <li>13. SUBMITTALS</li> <li>A. SUBMIT DOCUMENTATION.</li> <li>B. PRODUCT DATA: MANUFACTURER'S DATA SHEETS ON INCLUDING:</li> <li>a. PREPARATION INSTRUCTIONS AND RECOMMENTE</li> <li>b. STORAGE AND HANDLING REQUIREMENTS AND C. INSTALLATION METHODS</li> </ul>

MS WITH U-NOTCHES OR UBSTITUTED. WHERE /GROUT RETENTION MATERIAL OUTED CELLS ARE INDICATED.

LOADS: PSF SNOW LOAD - 10 PSF

I, THE TRUSS SUPPLIER SHALL INCLUDE S OR MECHANICAL EQUIPMENT IN THE

NS AND BEARING CONDITIONS.

THE TRUSSES AND THEIR CONNECTIONS TO USS DESIGN AND LAYOUT, BEARING THE /IEW.

CORDANCE WITH APPLICABLE STANDARDS FOR THE DESIGN OF COLD FORMED STEEL USSES" AND THE LIGHT GAGE STEEL OR COLD-FORMED STEEL TRUSSES".

- INSTALLATION METHODS. C. STRUCTURAL CALCULATIONS:
- a. ALL SHOP DRAWING SUBMITTALS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF THE PROJECT LOCATION. ENGINEER SHALL HAVE A MINIMUM OF 5 YEARS EXPERIENCE WITH PROJECTS OF SIMILAR SCOPE.
- b. DESCRIPTION OF DESIGN CRITERIA.
- c. SELECTION OF FRAMING COMPONENTS, ACCESSORIES AND WELDED CONNECTION REQUIREMENTS.
- d. VERIFICATION OF ATTACHMENTS TO STRUCTURE AND ADJACENT FRAMING COMPONENTS.

### NDARDS: ATION FOR THE DESIGN OF COLD PLEMENT 1, DATED 2010." COLD FORMED STEEL FRAMING -

COLD FORMED STEEL FRAMING -COLD FORMED STEEL FRAMING -

COLD FORMED STEEL FRAMING -

FOR COLD FORMED STEEL , DATED 2010."

T LIMITED TO, AREA (A), MOMENT Ry) SHALL MEET OR EXCEED EMS FOR MEMBER SIZES

D BASIS OF DESIGN PRODUCTS BY MAY INCLUDE BUT ARE NOT

PANY MAY BE SPECIFIED ON THE

SCREWS COMPLYING WITH ASTM ING SHALL COMPLY WITH ASTM RROSION RESISTANCE.

ERIAL ONLY. QUALITY WELDING AWS D1.3-2008, "STRUCTURAL WITH ZINC RICH PAINT IN

Y STIFFEN THE JOIST WEB AND ARING SHALL BE 1 1/2 INCHES.

RUNNER TRACK WITH FIRM GNED OR PLUMBED AND D BOTTOM RUNNER TRACK. O AS TO BE ALIGNED DIRECTLY /ERHEAD. IF UNABLE TO CENTER F FRAMING (SUCH AS AT

SELF-DRILLING SCREWS OR CTURAL APPLICATIONS SHALL NOT

MITTED. MEANS OF ADEQUATE LOAD CARRYING CAPACITYOF

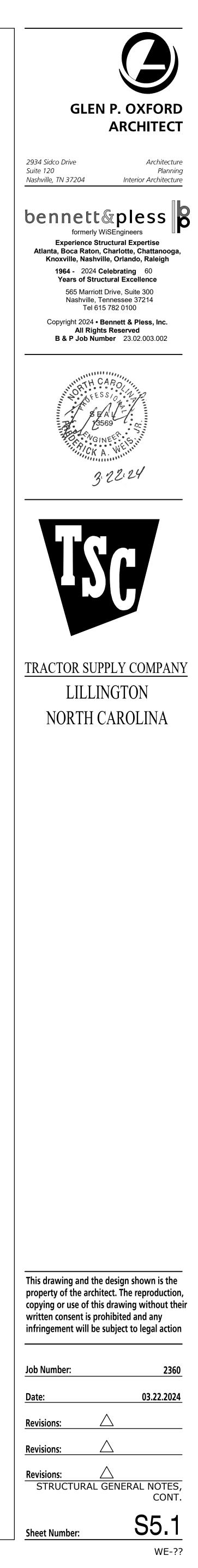
SPECIFICATIONS FOR THE DESIGN 007.

ON EACH PRODUCT TO BE USED,

ENDATIONS. ND RECOMMENDATIONS.

# ABBREVIATIONS

ARCH	ARCHITECT, ARCHITECTURAL
BRG	BEARING
C/L	CENTERLINE
CFS	COLD FORMED STEEL
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONT	CONTINUOUS
DIA	DIAMETER
DWGS	DRAWINGS
EL	ELEVATION
FDN	FOUNDATION
FFE	FINISHED FLOOR ELEVATION
FTG	FOOTING
FV	FIELD VERIFY
INFO	INFORMATION
JST	JOIST
PEMB	PRE-ENGINEERED METAL BUILDING
PL	PLATE
REINF	REINFORCING
RTU	ROOF TOP UNIT
SHT	SHEET
SPC	SPACING
UNO	UNLESS NOTED OTHERWISE
&	AND



PECIAL INSPECT	TION STATEMENT	SPECIAL INSPECTION SC	HEDUL	E: SOILS	
CTION AND STRUCTURAL TEST	DITION FOR PERMIT ISSUANCE IN TING REQUIREMENTS OF THE BUILDING APPLICABLE TO THIS PROJECT AS WELL	VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS	FREQUENCY	
	DUCTING THESE INSPECTIONS AND		PROJECT?	CONTINUOUS	PERIODIC
	AND SHALL FURNISH INSPECTION	1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	YES	-	Х
OVERED DISCREPANCIES SHA ORRECTION. IF SUCH DISCRE	PROFESSIONAL IN RESPONSIBLE LL BE BROUGHT TO THE IMMEDIATE PANCIES ARE NOT CORRECTED, THE	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	YES	-	Х
	DING OFFICIAL AND THE REGISTERED CTION. THE SPECIAL INSPECTION PONSIBILITIES.	3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	YES	-	Х
	AND THE REGISTERED DESIGN	4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	YES	Х	-
ON OF ANY DISCREPANCIES N	ON OF ALL REQUIRED SPECIAL OTES IN THE INSPECTIONS SHALL BE ONAL IN RESPONSIBLE CHARGE OF E AND OCCUPANCY.	5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	YES	-	Х
OF CONSTRUCTION ARE SOLE	ELY THE RESPONSIBILITY OF THE				
		SPECIAL INSPECTION	SCHED	DULE:	
ONS INCLUDES THE FOLLOWIN PRECAST CONCRETE	□ SEISMIC RESISTANCE	CONCRETE CONST	RUCTIO	DN	
MASONRY LEVEL 1 MASONRY LEVEL 2 STRUCTURAL STEEL COLD-FORMED STEEL FRAMIN		VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQU	
STEEL CONSTRUCTION: OTHE	R AND JOIST GIRDERS	1. INSPECTION OF REINFORCING STEEL, INCLUDING PLACEMENT.	YES	CONTINUOUS	PERIODIC
		2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE	_	-	Х
D DESIGN PROP		WITH THE SPECIAL INSPECTION SCHEDULE: STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL ITEM 3.	YES	-	Х
PONSIBLE CHA	KGE**	3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	YES	-	Х
FIRM	ADDRESS AND TELEPHONE NUMBER	4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	YES	-	Х
-	-	5. VERIFYING USE OF REQUIRED DESIGN MIX.	YES	-	Х
-	-	6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	YES	x	-
-	-	7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	YES	Х	-
AND COORDINATION THE SPI	A REGISTERED DESIGN PROFESSIONAL ECIAL INSPECTION AS DETERMINED BY THE E BUILDING OF STRUCTURE INCLUDING	8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	YES	-	Х
Y OTHERS, DEFERRED SUBMIT	ITAL DOCUMENTERS AND PHASED	9. INSPECTION OF PRESTRESSED CONCRETE: A. APPLICATION OF PRESTRESSING FORCES.	NO	X	-
I ENGAGED AS THE REGISTER ISPECTIONS.	ED DESIGN PROFESSIONAL IN	B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC- FORCE-RESISTING SYSTEM.	NO	Х	-
INSPECTION AC	GENCIES	10. ERECTION OF PRECAST CONCRETE MEMBERS.	NO	-	Х
-	-	11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	YES	-	х
-	-	12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	YES	-	Х
-	-				
CIES SHALL BE ENGAGED BY	THE OWNER OR THE OWNER'S AGENT,	NOTE: 1. SPECIAL INSPECTIONS FOR ISOLATED SPREAD CONCRETE FOOTINGS SUPPORTING WALLS, AND CONCRETE FOUNDA WITH THIS TABLE.	•		
DISCLOSED TO THE BUILDIN NG WORK.	G OFFICIAL AND THE DESIGN				
IAL INSPECTOR QUALIFICATION	D/OR TESTING AGENCIES SHALL BE ONS TABLE. THE QUALIFICATIONS OF THE ECT TO THE APPROVAL OF THE BUILDING				
REQUIRED WHERE THE FABR DING CODE.	RICATOR IS APPROVED IN ACCORDANCE				

<form></form>					
	STRUCTURAL SPECIAL INSPECTION STATEMENT	SPECIAL INSPECTION SC	HEDUL	E: SOILS	)
In product or interface on the source of the source o	ACCORDANCE WITH THE SPECIAL INSPECTION AND STRUCTURAL TESTING REQUIREMENTS OF THE BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTION SERVICES APPLICABLE TO THIS PROJECT AS WELL AS THE NAME OF THE SPECIAL INSPECTOR TO BE RETAINED FOR CONDUCTING THESE INSPECTIONS AND	VERIFICATION AND INSPECTION TASK	TO THIS		
Benders of an - Register of a - Register of a solution of the second and a recoverage of the solution of			YES	-	
b) decide based on the American of the Am	CHARGE OF SPECIAL INSPECTION. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE		YES	-	
	DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE IN CHARGE OF SPECIAL INSPECTION. THE SPECIAL INSPECTION		YES	-	
And the transmission of the service in the service of the service in the ser	INTERIM REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN	THICKNESS DURING PLACEMENT AND COMPACTION OF	YES	X	
	A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, TESTING AND CORRECTION OF ANY DISCREPANCIES NOTES IN THE INSPECTIONS SHALL BE SUBMITTED BY ALL SPECIAL INSPECTORS AND THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF	5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED	YES	-	
The second of second s					
This stratection of sectal base-closes includes the following sources:       Concrete Constructions       Concrete Constructions       Products of sectal base-closes includes the following sources:         Extension       Extens	CONTRACTOR.	SPECIAL INSPECTION	SCHE	DULE:	
		CONCRETE CONST	RUCTI	ЛЛ	
	SOILS MASONRY LEVEL 1 UND RESISTANCE				
REGISTERED DESIGN PROFESSIONAL     INSPECTION OF REIMONSCHE VIEWER     RESPONSIBLE CHARGE**      RESPONSIBLE CHARGE**      RESPONSIBLE CHARGE**      RESPONSIBLE CHARGE**      ADDRESS AND TELEMONDER NUMBER      I	□ PIER FOUNDATIONS □ STRUCTURAL STEEL □ SPECIAL CASES □ CONCRETE CONSTRUCTION □ COLD-FORMED STEEL FRAMING □ OPEN-WEB STEEL JOISTS	VERIFICATION AND INSPECTION TASK	TO THIS		1
REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE**         RESPONSIBLE CHARGE*         RESPONSIBLE CHARGE*         I.       I.         I.       I.       I.         I.       I.       I.         I.       I.       I.         I.       I.       I.         I.       I.       I.         I.       I. <td>STEEL CONSTRUCTION: OTHER AND JOIST GIRDERS</td> <td></td> <td></td> <td></td> <td></td>	STEEL CONSTRUCTION: OTHER AND JOIST GIRDERS				
REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE**         RESPONSIBILITY       FIBM       ADDRESS AND TELEPHONE NUMBER       VIS       Image: Colspan="2">Colspan="2"         . <th< td=""><td></td><td></td><td>_</td><td>-</td><td><u> </u></td></th<>			_	-	<u> </u>
All DWAIL IF LODGE HAVE PRET INCREASED OR WHEFE       YES       -         ALL DWAIL IF LODGE HAVE PRET INCREASED OR WHEFE       YES       -         1.       -       -       -         2.       -       -       -         3.       -       -       -         WOTE:       -       -       -       -         1.       -       -       -       -       -         3.       -		WITH THE SPECIAL INSPECTION SCHEDULE: STEEL		-	
1.       CONCRETE MEMBERS.       VES         1.       S.       S. VERTING USE OF REQUERED DESIGN MIX.       VES         3.       S. VERTING USE OF REQUERED DESIGN MIX.       VES       X         1.       S. VERTING USE OF REQUERED DESIGN MIX.       VES       X         1.       S. VERTING USE OF REQUERED DESIGN MIX.       VES       X         1.       S. VERTING USE OF REQUERED DESIGN MIX.       VES       X         1.       CONCRETE.       S. VERTING USE OF REQUERED DESIGN MIX.       VES       X         1.       CONCRETE.       S. VERTING USE OF REQUERED DESIGN MIX.       VES       X         1.       CONCRETE.       S. VERTING USE OF REQUERED DESIGN MIX.       VES       X         1.       CONCRETE.       S. VERTING USE OF REQUERED DESIGN MIX.       VES       X         1.       S. VERTING USE OF RECORD SUBMERT DO TO FRANCE OF THE OWNERS AND PRASED DESIGN PROFESSIONAL IN RECORDING THE OWNERS AND PRASED DESIGN PROFESSIONAL IN RECENTION SUBMERTIAL DOCUMPRISES AND PRASED DESIGN PROFESSIONAL IN RECORDING THE OWNERS AND PRASED DESIGN PROFESSIONAL IN RECORDER SUBMERT DO TO FRASE DESIGN PROFESSIONAL IN RECORD PRESE TENSESSING TRECO	IN RESPONSIBLE CHARGE**	ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE	YES	-	
1.       AT THE TIME PRESH CONCRETE IS SAMPLED TO PARACICATE         2.       AT THE TIME PRESH CONCRETE IS SAMPLED TO PARACICATE         3.       NOTE:         3.       Image: Instruction Processional, IN RESPONSIBLE CHARGE: A REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE: A REGISTERED DESIGN PROFESSIONAL IN RESPONSIBIL CHARGE: A REGISTERED DESIGN PROFESSIONAL IN REGISTERED RESIDENCE OF THE BUILDING OF STRUCTURE INCLUDING OF STRUCTURE INCLUDING OF STRUCTURE INCLUDING OF STRUCTURE REGISTERED RESIDENCE ON SOUTH TO CONCRETE CONCRETE:       NO       X         1.       SUBMITIAL DOCUMENTS       NO       X       SEPECIAL INSPECTION AGENCIES         1.       SPECIAL INSPECTION AGENCIES       NO       X       SEPARACIES OF STRUCTURE INSUME RANDOR OF THE BUILDING OF STRUCTURE INCLUDING OF TRUCTURE RESISTING FORCES.       NO       X         3.       STRUCTURA NO FRESH CONCRETE STRUCTURE INSUME RANDOR OF THE BUILDING OF TICLAL AND THE OWNER OR THE OWNER'S AGENT, AND ON THE STRUCTURE INSUME STRUCTURE INSUM STRUCTURE INSUME STRUCTURE INSUME STRUCTURE	RESPONSIBILITY     FIRM     ADDRESS AND TELEPHONE NUMBER		YES	-	
2.		5. VERIFYING USE OF REQUIRED DESIGN MIX.	YES	-	
NOTE: <t< td=""><td>2</td><td>SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE</td><td>YES</td><td>X</td><td></td></t<>	2	SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE	YES	X	
1. **REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE: A REGISTERED DESIGN PROFESSIONAL ENGAGED BY THE OWNER COORDINATION THE SPECIAL INSPECTON AS DETERMINED BY THE BUILDING OFFICIAL, FOR COMMANTIBILITY WITH THE DESIGN OF THE BUILDING OF STRUCTURE INSPECTON AS DETERMINED BY THE BUILDING OFFICIAL, FOR COMMANTIBILITY WITH THE DESIGN OF STRUCTURE INSPECTON AS DETERMINED BY THE BUILDING OFFICIAL, FOR COMMANTIBILITY WITH THE DESIGN OF STRUCTURE INSPECTON AS DETERMINED BY THE BUILDING OFFICIAL, FOR COMMANTIBILITY WITH THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF SPECIAL INSPECTIONS.   SPECIAL INSPECTION AGENCIES  I. C.			YES	x	
SUBMITTAL DOCUMENTS       NO       X         SUBMITTAL DOCUMENTS.       INSPECTOR DESCRIPTION AGENCIES       NO       X         SPECIAL INSPECTION AGENCIES       INO       X         1.       -       -       -         2.       -       -       -       -         2.       -       -       -       -       -         3.       - <td< td=""><td>ENGAGED BY THE OWNER TO REVIEW AND COORDINATION THE SPECIAL INSPECTION AS DETERMINED BY THE</td><td></td><td>YES</td><td>-</td><td></td></td<>	ENGAGED BY THE OWNER TO REVIEW AND COORDINATION THE SPECIAL INSPECTION AS DETERMINED BY THE		YES	-	
RESPONSIBLE CHARGE OF SPECIAL INSPECTIONS.       NO       X         SPECIAL INSPECTION AGENCIES       1.       .       NO       .         1.       .       .       .       .       .       .         2.       . <td< td=""><td>SUBMITTAL DOCUMENTS PREPARED BY OTHERS, DEFERRED SUBMITTAL DOCUMENTERS AND PHASED</td><td>A. APPLICATION OF PRESTRESSING FORCES.</td><td>NO</td><td>x</td><td></td></td<>	SUBMITTAL DOCUMENTS PREPARED BY OTHERS, DEFERRED SUBMITTAL DOCUMENTERS AND PHASED	A. APPLICATION OF PRESTRESSING FORCES.	NO	x	
1.       -       -       -       STRESSING OF TENDONS IN POST-TENSIONED CONCRETE       YES       -         2.       -       -       STRESSING OF TENDONS IN POST-TENSIONED CONCRETE       YES       -         3.       -       -       -       STRESSING OF TENDONS IN POST-TENSIONED CONCRETE       YES       -         3.       -       -       -       -       STRESSING OF TENDONS IN POST-TENSIONED CONCRETE       YES       -         3.       -       -       -       -       STRESSING OF TENDONS IN POST-TENSIONED CONCRETE FOOTINGS CONTINUOUS CONCRETE       -         1. THE INSPECTORS AND TESTING AGENCIES SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR.       YES       -       -         2. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.       -       -       -       -         3. THE MINIMUM QUALIFICATIONS OF THE SPECIAL INSPECTOR QUALIFICATIONS TABLE. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR (S) AND/OR TESTING AGENCIES SHALL BE THOSE LISTED IN THE MINIMUM SPECIAL INSPECTOR QUALIFICATIONS TABLE. THE QUALIFICATIONS OF THE BUILDING OFFICIAL.       -       -       -         4. INSPECTION OF FABRICATORS IS NOT REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE       -       -       -       -			NO	x	<u> </u>
1.       -       -         2.       -       -         3.       -       -         3.       -       -         1. THE INSPECTORS AND TESTING AGENCIES SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR.       YES       -         1. THE INSPECTORS AND TESTING AGENCIES SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR.       YES       -         2. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.       SECIAL INSPECTIONS OF THE SPECIAL INSPECTOR QUALIFICATIONS TABLE. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR(S) AND/OR TESTING AGENCIES SHALL BE THOSE LISTED IN THE MINIMUM SPECIAL. INSPECTOR QUALIFICATIONS TABLE. THE QUALIFICATIONS OF THE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL.       ENGINE APPROVED IN ACCORDANCE         4. INSPECTION OF FABRICATORS IS NOT REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE       SAPPOVED IN ACCORDANCE	SPECIAL INSPECTION AGENCIES	10. ERECTION OF PRECAST CONCRETE MEMBERS.	NO	-	
3.       12. INSPECT FORMWORK FOR SHAPE, LOCATION AND       YES         3.       .       .         NOTES:         1. THE INSPECTORS AND TESTING AGENCIES SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR.       NOTE:         2. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.       NOTE:         3. THE MINIMUM QUALIFICATIONS OF THE SPECIAL INSPECTOR(S) AND/OR TESTING AGENCIES SHALL BE THOSE LISTED IN THE MINIMUM SPECIAL INSPECTOR QUALIFICATIONS ABLE. THE QUALIFICATIONS OF THE BUILDING OFFICIAL.       NOT HE BUILDING OF THE BUILDING OF THE BUILDING OF THE BUILDING OFFICIAL.         4. INSPECTION OF FABRICATORS IS NOT REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE       ACCORDANCE	1	STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM	YES	-	
<ol> <li>NOTES:</li> <li>1. THE INSPECTORS AND TESTING AGENCIES SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR.</li> <li>2. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.</li> <li>3. THE MINIMUM QUALIFICATIONS OF THE SPECIAL INSPECTOR(S) AND/OR TESTING AGENCIES SHALL BE THOSE LISTED IN THE MINIMUM SPECIAL INSPECTOR QUALIFICATIONS TABLE. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR(S) AND/OR TESTING AGENCIES MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL.</li> <li>4. INSPECTION OF FABRICATORS IS NOT REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE</li> </ol>			YES	-	
WITH SECTION 1704.2.2 OF THE BUILDING CODE.	<ol> <li>THE INSPECTORS AND TESTING AGENCIES SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR.</li> <li>ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.</li> <li>THE MINIMUM QUALIFICATIONS OF THE SPECIAL INSPECTOR(S) AND/OR TESTING AGENCIES SHALL BE THOSE LISTED IN THE MINIMUM SPECIAL INSPECTOR QUALIFICATIONS TABLE. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR(S) AND/OR TESTING AGENCIES MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL.</li> <li>INSPECTION OF FABRICATORS IS NOT REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE</li> </ol>	1. SPECIAL INSPECTIONS FOR ISOLATED SPREAD CONCRETE FOOTINGS SUPPORTING WALLS, AND CONCRETE FOUNDA			
	WITH SECTION 1704.2.2 OF THE BUILDING CODE.				

	SPECIAL INSPECTION AGENCIES					
1.		-	-			
2.		-	-			
3.		-	-			

#### SPECIAL INSPECTION SCHEDULE: FABRICATORS \_

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQU	JENCY
1. VERIFY FABRICATION AND IMPLEMENTATION PROCEDURES:	YES	CONTINUOUS	PERIODIC
A. STEEL CONSTRUCTION **	YES	-	Х
B. CONCRETE CONSTRUCTION (INCLUDING REBAR FABRICATION)	YES	-	Х
C. WOOD CONSTRUCTION **	NO	-	х
D. COLD FORMED METAL CONSTRUCTION	YES	-	х
E. OTHER CONSTRUCTION	YES	-	Х
**IF FABRICATOR IS NOT EXEMPT PER IBC CHAPTER 17.			

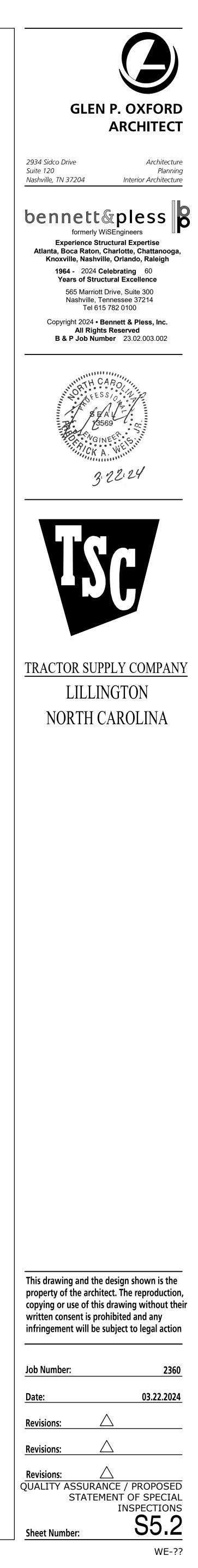
## QUALITY ASSURANCE PLAN / PROPSED STATEMENT OF SPECIAL INSPECTION

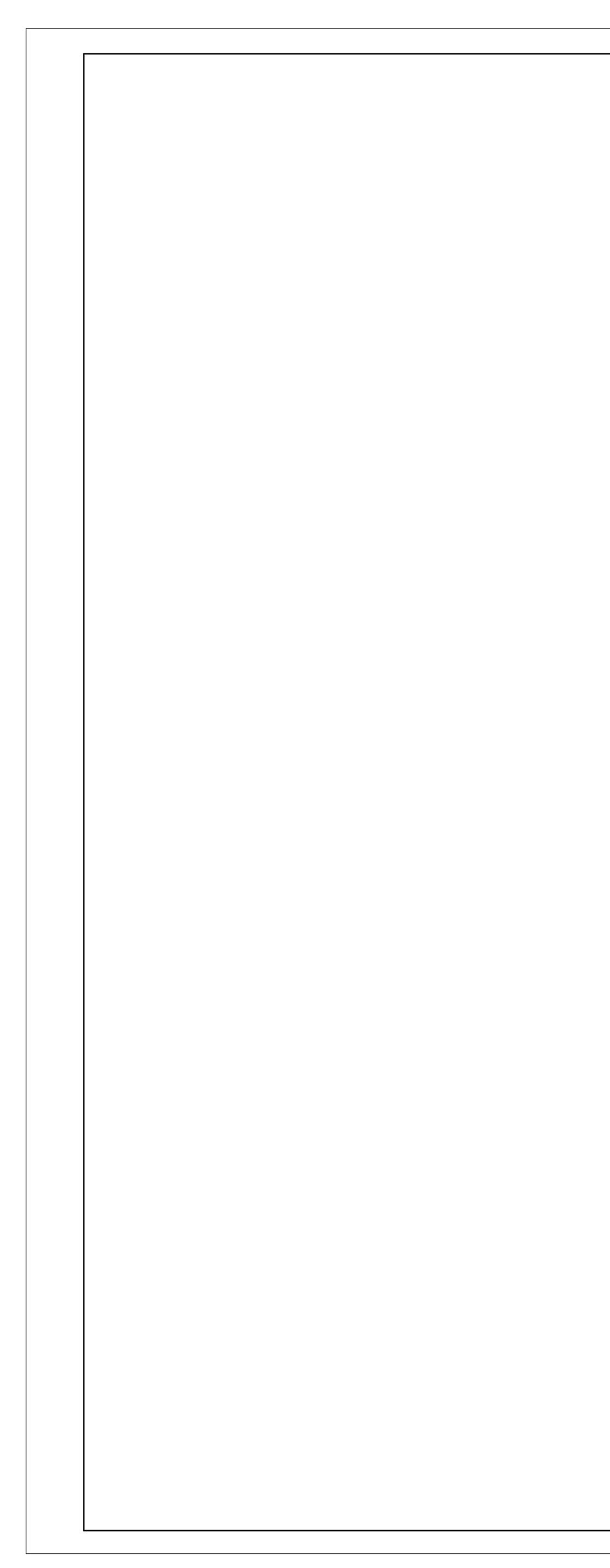
VERIFICATION AND INSPECTION TASK	VERIFICATION AND INSPECTION TASK TO THIS FREQUEN		JENCY
	PROJECT?	CONTINUOUS	PER
1. INSPECTION OF REINFORCING STEEL, INCLUDING PLACEMENT.	YES	-	
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH THE SPECIAL INSPECTION SCHEDULE: STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL ITEM 3.	YES	_	
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	YES	-	
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	YES	-	
5. VERIFYING USE OF REQUIRED DESIGN MIX.	YES	-	
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	YES	х	
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	YES	x	
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	YES	-	
9. INSPECTION OF PRESTRESSED CONCRETE: A. APPLICATION OF PRESTRESSING FORCES.	NO	х	
B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC- FORCE-RESISTING SYSTEM.	NO	Х	
10. ERECTION OF PRECAST CONCRETE MEMBERS.	NO	-	
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	YES	-	
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	YES	-	

PROJECT?	VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS	FREQ	UENCY
CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.YES-2. VERIFICATION OF FM AND FAAC PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE BUILDING CODE.YES.3. VERIFICATION OF SILMP FLOW AND VSI AS DELIVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT.YESX4. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL 			CONTINUOUS	PERIODI
EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE BUILDING CODE.ITESI3. VERIFICATION OF SLUMP FLOW AND VSI AS DELIVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT.YESX4. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. PROPORTIONS OF SITE-PREPARED MORTAR.YES-B. CONSTRUCTION OF MORTAR JOINTS.YESC. LOCATION OF REINFORCEMENT, CONNECTORS, ANCHORAGES.YES-D. PRESTRESSING TECHNIQUE.NOE. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.NO-S. DURING CONSTRUCTION, THE INSPECTION PROGRAM SHALL VERIFY: A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.YES-B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS FRAMES OR OTHER CONSTRUCTION.YES-D. WELDING OF REINFORCING BARS.YESD. WELDING OF REINFORCING BARS.YESD. WELDING OF REINFORCING BARS.YESD. WELDING OR HER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).YES-F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.NO6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. GROUT SPACE IS CLEAN.YES-B. PLACEMENT OF REINFORCEMENT AND CONNECTORS.YESC. SPROPRITION SOF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.NO	CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS	YES	_	х
THE SITE FOR SELF-CONSOLIDATING GROUT.TESA4. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. PROPORTIONS OF SITE-PREPARED MORTAR.YES-B. CONSTRUCTION OF MORTAR JOINTS.YES-C. LOCATION OF REINFORCEMENT, CONNECTORS, ANCHORAGES.YES-D. PRESTRESSING TECHNIQUE.NO-E. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.NO-5. DURING CONSTRUCTION, THE INSPECTION PROGRAM SHALL VERIFY: A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.YES-B. TYPE, SIZE AND LOCATION OF STRUCTURAL ELEMENTS.YESC. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.YESD. WELDING OF REINFORCING BARS.YESC. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.YESD. WELDING OF REINFORCING BARS.YESD. WELDING OF REINFORCING BARS.YESC. SPECIFIED SIZE, GRADE AND TYPE OF RESTRESSING FORCE.NOD. WELDING OF REINFORCING BARS.YESD. WELDING OF REINFORCING BARS.YESE. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).YES-F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.NO6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. GROUT SPACE IS CLEAN.YESB. PLACEMENT OF REINFORCEMENT AND		YES	-	Х
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C. LOCATION OF REINFORCEMENT, CONNECTORS, ANCHORAGES.YES-D. PRESTRESSING TECHNIQUE.NO-E. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.NO-S. DURING CONSTRUCTION, THE INSPECTION PROGRAM SHALL VERIFY: A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.YES-B. TYPE, SIZE AND LOCATION OF STRUCTURAL ELEMENTS.YES-C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.YES-D. WELDING OF REINFORCING BARS.YES-C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.YES-D. WELDING OF REINFORCING BARS.YES-E. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).YESF. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.NO-6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. GROUT SPACE IS CLEAN.YES-B. PLACEMENT OF REINFORCEMENT AND CONNECTORS.YES-C. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.NO-	BE VERIFIED TO ENSURE COMPLIANCE:	YES	-	Х
D. PRESTRESSING TECHNIQUE.NO-E. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.NO-S. DURING CONSTRUCTION, THE INSPECTION PROGRAM SHALL VERIFY: A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.YES-B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS FRAMES OR OTHER CONSTRUCTION.YES-C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.YESD. WELDING OF REINFORCING BARS.YESX-E. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).YES-F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.NO6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. GROUT SPACE IS CLEAN.YESB. PLACEMENT OF REINFORCEMENT AND CONNECTORS.YESC. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.NO	B. CONSTRUCTION OF MORTAR JOINTS.	YES	-	Х
E. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.NO-5. DURING CONSTRUCTION, THE INSPECTION PROGRAM SHALL VERIFY: A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.YES-B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS FRAMES OR OTHER CONSTRUCTION.YES-C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.YES-D. WELDING OF REINFORCING BARS.YESXE. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).YES-F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.NO6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. GROUT SPACE IS CLEAN.YESB. PLACEMENT OF REINFORCEMENT AND CONNECTORS.YESC. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.NO	C. LOCATION OF REINFORCEMENT, CONNECTORS, ANCHORAGES.	YES	-	х
ANCHORAGES.INS5. DURING CONSTRUCTION, THE INSPECTION PROGRAM SHALL VERIFY: A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.YES-B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS FRAMES OR OTHER CONSTRUCTION.YES-C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.YESD. WELDING OF REINFORCING BARS.YESX-E. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).YES-F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.NO6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. GROUT SPACE IS CLEAN.YES-B. PLACEMENT OF REINFORCEMENT AND CONNECTORS.YESC. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.NO	D. PRESTRESSING TECHNIQUE.	NO	-	Х
VERIFY: A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.YES-B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS FRAMES OR OTHER CONSTRUCTION.YES-C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.YESD. WELDING OF REINFORCING BARS.YESX-E. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).YES-F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.NO6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. GROUT SPACE IS CLEAN.YES-B. PLACEMENT OF REINFORCEMENT AND CONNECTORS.YESC. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.NO		NO	-	Х
DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS FRAMES OR OTHER CONSTRUCTION.YES-C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.YES-D. WELDING OF REINFORCING BARS.YESXE. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).YES-F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.NO6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. GROUT SPACE IS CLEAN.YES-B. PLACEMENT OF REINFORCEMENT AND CONNECTORS.YESC. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.NO	VERIFY:	YES	-	Х
D. WELDING OF REINFORCING BARS.YESXE. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).YES-F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.NO-6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. GROUT SPACE IS CLEAN.YES-B. PLACEMENT OF REINFORCEMENT AND CONNECTORS.YES-C. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.NO-	DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL	YES	-	х
E. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).YES-F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.NO6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. GROUT SPACE IS CLEAN.YES-B. PLACEMENT OF REINFORCEMENT AND CONNECTORS.YESC. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.NO	C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.	YES	-	Х
MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).YES-F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.NO-6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. GROUT SPACE IS CLEAN.YES-B. PLACEMENT OF REINFORCEMENT AND CONNECTORS.YES-C. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.NO-	D. WELDING OF REINFORCING BARS.	YES	Х	
F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.NO-6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. GROUT SPACE IS CLEAN.YES-B. PLACEMENT OF REINFORCEMENT AND CONNECTORS.YES-C. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.NO-	MASONRY DURING COLD WEATHER (TEMPERATURE BELOW	YES	_	x
ENSURE COMPLIANCE: A. GROUT SPACE IS CLEAN.YES-B. PLACEMENT OF REINFORCEMENT AND CONNECTORS.YES-C. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.NO-	F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	NO	-	Х
C. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS. NO -	ENSURE COMPLIANCE:	YES	-	Х
PRESTRESSING GROUT FOR BONDED TENDONS.	B. PLACEMENT OF REINFORCEMENT AND CONNECTORS.	YES	-	х
D. CONSTRUCTION OF MORTAR JOINTS. YES -		NO	-	Х
	D. CONSTRUCTION OF MORTAR JOINTS.	YES	-	Х
7. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.YESX		YES	х	_
A. GROUTING OF PRESTRESSING BONDED TENDONS. NO X	A. GROUTING OF PRESTRESSING BONDED TENDONS.	NO	Х	-

### RIODIC Х Х Х

RIODIC Х Х Х Х Х --Х --Х Х Х 





## QUALITY ASSURANCE PLAN / PROPSED STATEMENT OF SPECIAL INSPECTION, CONT.

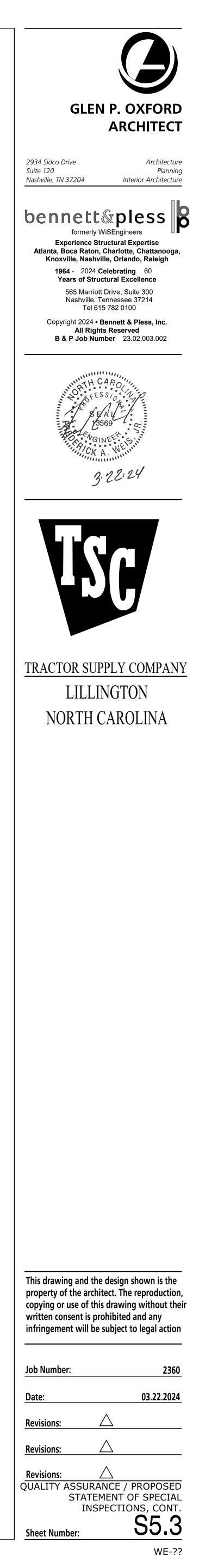
SPECIAL INSPECTION S	CHEDU	JLE:		
STRUCTURAL STEEL CON	ISTRUC	TION		
VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS	FREQUENCY		
	PROJECT?	CONTINUOUS	PERIODIC	
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:				
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	YES	-	х	
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	YES	-	Х	
2. INSPECTION OF HIGH-STRENGTH BOLTING:	YES	-	Х	
A. PRETENSIONED AND SLIP CRITICAL JOINTS USING TURN- OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT, CALIBRATED WRENCH, OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	YES	_	Х	
B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF- NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION .	NO	х	-	
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL: A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS AND AISC 360.	YES	-	Х	
B. MANUFACTURER'S CERTIFIED TEST REPORTS.	YES	-	Х	
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS: A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	YES	-	Х	
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	YES	-	Х	
5. INSPECTION OF WELDING, STRUCTURAL STEEL: A. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	YES	Х	-	
B. MULTIPASS FILLET WELDS	YES	Х	-	
C. SINGLE-PASS FILLET WELDS > 5/16"	YES	Х	-	
D. SINGLE-PASS FILLET WELDS $\leq$ 5/16"	YES	-	Х	
<ul> <li>6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE</li> <li>WITH APPROVED CONSTRUCTION DOCUMENTS:</li> <li>A. DETAILS SUCH AS BRACING AND STIFFENING.</li> </ul>	YES	-	Х	
B. MEMBER LOCATIONS.	YES	-	Х	
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	YES	-	Х	

## SPECIAL INSPECTION SCHEDULE: STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

VERIFICATION AND INSPECTION TASK		FREQUENCY		
	PROJECT?	CONTINUOUS	PERIODIC	
1. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK: A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	YES	-	Х	
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	YES	-	Х	
2. INSPECTION OF WELDING, COLD-FORMED STEEL DECK: A. ROOF DECK WELDS.	YES	-	Х	
3. INSPECTION OF WELDING, REINFORCING STEEL: A. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	YES	-	х	
B. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	NO	Х	-	
C. SHEAR REINFORCEMENT.	YES	Х	-	
D. OTHER REINFORCING STEEL.	YES	-	Х	
<ul> <li>4. INSPECTION OF COLD-FORMED STEEL TRUSSES:</li> <li>A. VERIFY TEMPORARY INSTALLATION RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH APPROVED TRUSS SUBMITTAL PACKAGE.</li> </ul>	YES	_	Х	
B. VERIFY PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH APPROVED TRUSS SUBMITTAL PACKAGE.	YES	-	x	

## SPECIAL INSPECTION SCHEDULE: OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS	FREQUENCY		
		CONTINUOUS	PERIODIC	
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS A. END CONNECTIONS - WELDING OR BOLTED.	YES	-	Х	
B. BRIDGING - HORIZONTAL OR DIAGONAL	YES	-	Х	
2. STANDARD BRIDGING	YES	-	Х	
3. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1	YES	-	Х	



	OLALITY ASSURANCE	2.02 4
1.01 A.	QUALITY ASSURANCE Ready-Mix Concrete Supplier: A firm experienced in producing ready-mixed concrete that complies with ASTM C94 requirements for production facilities and equipment. Comply with ACI 301, "Specification for Structural Concrete."	А. В.
В.	<ol> <li>Manufacturer certified according to NRMCA's "Certification of Ready-Mixed Concrete Production Facilities." Certification shall not be more than twelve months old.</li> <li>Concrete Contractor Qualification: Concrete contractor shall include in their bid package to the general</li> </ol>	
	contractor, a minimum of three similar and successful projects that clearly indicates the ability to successfully perform the work and to achieve the interior slab on ground tolerances required in this specification. The Concrete Contractor's team shall have participated in the majority of the referenced projects, and that team shall remain the same throughout the duration of this project. Concrete Contractor's qualification shall be submitted as part of the bid package. The Owner has rights to reject the Concrete Contractor.	C. D.
C.	<ul> <li>Testing Agency Qualifications: An independent agency, qualified according to ASTM C1077 and ASTM E329 for testing indicated, as documented according to ASTM E548.</li> <li>Personnel conducting field tests shall be qualified as ACI Concrete Field-Testing Technician, Grade 1, according to ACI CP-01 or an equivalent certification program.</li> </ul>	
D.	<ol> <li>Personnel performing laboratory tests shall be ACI-certified Concrete Strength Testing Technician and Concrete Laboratory Testing Technician - Grade I. Testing Agency laboratory supervisor shall be an ACI-certified Concrete Laboratory Testing Technician - Grade II.</li> <li>Trained Applicator: General contractors bidding or negotiating a Tractor Supply project shall contact Euclid</li> </ol>	E.
	Chemical to obtain a list of Trained Applicators located within the geographic region of the project. General Contractors shall solicit and accept pricing only from those applicators as provided by Euclid Chemical. <u>The</u> <u>Trained Applicator selected for the initial application of joint filler and liquid densifier/sealer shall</u> <u>be the same as for the polishing process and additional application of liquid densifier/sealer.</u> 1. Philip Brandt: Euclid Chemical - 877-438-3826 / pbrandt@euclidchemical.com	
E.	Concrete Slab on Ground Pre-Installation Conference (Tractor Supply Requirement): At least <u>30</u> days prior to the start of concrete slab construction, the general contractor shall conduct a meeting to review the proposed concrete mix designs and to discuss the required methods and procedures to achieve the requirements of this specification. The general contractor shall send a pre-concrete conference agenda to all attendees <u>10</u> days prior to the scheduled date of the conference.	F.
	<ol> <li>The general contractor shall require responsible representatives of every party concerned with the concrete work to attend the conference, including, but not limited to the following:         <ul> <li>General Contractor: Project Manager and Superintendent</li> <li>Ready-mix Concrete Producer: Quality Control Manager</li> <li>Concrete Contractor: Foreman</li> </ul> </li> </ol>	
	<ul> <li>d. Testing Agency: Project Manager and Field Rep for concrete mixes, quality control, floor tolerance testing, etc.</li> <li>e. Owner Representative: If Required</li> <li>f. Trained Applicator: Liquid densifier sealer and joint filling applicator</li> </ul>	
	<ul> <li>g. Phil Brandt: Euclid Chemical (877-438-3826) / <u>pbrandt@euclidchemical.com</u></li> <li>2. Minutes of the meeting shall be recorded, typed, and printed by the general contractor and distributed to all concerned parties, including the architect, structural engineer, and Tractor Supply Project Manager, within three days of the meeting.</li> </ul>	
	<ol> <li>The minutes shall include a statement by the ready-mix concrete supplier stating that the proposed concrete mix designs will produce the concrete quality required by these specifications.</li> <li>The minutes shall include a statement by the concrete contractor that the proposed concrete</li> </ol>	
PART	mix designs will provide appropriate workability and setting times, to ensure that the concrete contractor can achieve the requirements of this specification.	G.
2.01	MATERIALS	
Α.	Concrete materials: 1. Portland Cement: ASTM C150/C150M, Type I/II, or ASTM C-595, Type IL (Portland Limestone Cement).	
	Use one brand of cement throughout the project. Coarse and Fine Aggregates: ASTM C 33. Combined aggregate gradation for slabs on grade and other designated concrete shall be 8% - 18% for large top size aggregates (1½") or 8% - 22% for smaller	
	top size aggregates (1" or <sup>3</sup> / <sub>4</sub> ") retained on each sieve below the top size and above the No. 100 sieve. a. Footings and Piers: Unless indicated otherwise on drawings, footings and piers shall have a	
	<ul> <li>maximum aggregate size of 1" (#57 stone), and beams ¾" (#67 stone).</li> <li>b. Interior Slab on Ground: Unless indicated otherwise on drawings, interior slab on ground shall have a maximum coarse aggregate size of 1" (#57 stone).</li> <li>c. Exterior Slab on Ground: Unless indicated otherwise on drawings, exterior slab on ground shall</li> </ul>	
	<ul> <li>have a maximum coarse aggregate size of 1" (#57 stone).</li> <li>Water: complying with ASTM C94.</li> <li>Air-Entraining Admixture (Interior Slab on Ground): Air-entraining admixture shall not be used</li> </ul>	
	<ul> <li>Air-Entraining Admixture (Interior Slab on Ground): Air-Entraining admixture shall not be used</li> <li>for interior slab on ground concrete work.</li> <li>Air-Entraining Admixture (Exterior Slab on Ground Concrete): ASTM C-260. Admixture</li> </ul>	PART
	<ul> <li>manufacturer shall provide written certification that the air-entraining admixture is compatible with other required admixtures. All exterior slab on ground shall be air-entrained (4% - 6%). Acceptable products: Euclid Chemical AEA-92 or Air 40; Master Builders Micro Air; W.R. Grace Daravair or Darex.</li> <li>Water-Reducing Admixture: ASTM C494, Type A containing not more than 0.05% chloride ions.</li> </ul>	3.01 A.
	<ul> <li>Acceptable products: Euclid Chemical Eucon series; Master Builders Pozzolith series; W.R. Grace WRDA or Daracem series.</li> <li>6. Water-Reducing, Retarding Admixture: ASTM C494, Type D containing not more than 0.05% chloride ions. Acceptable products: Euclid Chemical Retarder 75; Master Builders Pozzolith series or Delvo;</li> </ul>	
	<ul> <li>W.R. Grace Daratard 17.</li> <li>7. High Range Water-Reducing Admixture (Superplasticizer): ASTM C494, Type F or G containing not more than 0.05% chloride ions. Acceptable products: Euclid Chemical Eucon 37; Master Builders Rheobuild 1000; W.R. Grace Daracem-100.</li> </ul>	В.
	8. Water-Reducing, Non-Corrosive Accelerating Admixture: ASTM C494, Type C or E containing not more chloride ions than are present in municipal drinking water. The admixture manufacturer must have long-term, non-corrosive test data from an independent testing laboratory (of at least a year's duration) using an acceptable accelerated corrosion test method such as that using electrical potential measures. Acceptable products: Euclid Chemical Accelguard 80/90 or NCA; Master Builders NC534 or	C.
	<ul> <li>Pozzutec 20; W.R. Grace Polarset.</li> <li>Prohibited admixtures: <ul> <li>a. Calcium chloride or admixtures containing more than 0.05% chloride ions are not permitted.</li> <li>b. Fly ash is only permitted in exterior slab on ground subject to Alkali Silica Reactivity (ASR); up</li> </ul> </li> </ul>	D.
	<ul> <li>to 20% exchange by weight.</li> <li>10. Macro-Synthetic fibers (Exterior Slab on Ground Concrete): Comply with ASTM C1116. "Structural" fibers shall be a patented coarse monofilament, self-fibrillating, polypropylene/polyethylene fiber with a minimum tensile strength of 73ksi and minimum length of 2 inches.</li> <li>a. Acceptable macro-synthetic fiber (No Substitutions): "Tuf-Strand SF" by Euclid Chemical. Phil</li> </ul>	
В.	Brandt 877-438-3826 / pbrandt@euclidchemical.com Related Materials: 1. Evaporation Retarder: Waterborne, monomolecular film forming, manufactured for application to fresh	3.02
	<ul> <li>concrete.</li> <li>a. Acceptable manufacturer: "Eucobar" by Euclid Chemical.</li> <li>2. Interior Slab on Ground Curing: ASTM C309 with a maximum VOC content of 350g/l. The interior slab</li> </ul>	A.
	on ground shall be cured using a reduced odor, dissipating or removable liquid membrane forming curing compound. a. Acceptable manufacturer: "Kurez DR VOX" or "Kurez DR 100" by Euclid Chemical. b. Interior Slab on Ground: Unless indicated otherwise on drawings, interior slab on ground shall	
	<ul> <li>have a maximum coarse aggregate size of 1" (#57 stone).</li> <li>c. Exterior Slab on Ground: Unless indicated otherwise on drawings, exterior slab on ground shall have a maximum coarse aggregate size of 1" (#57 stone).</li> <li>3. Interior Slab on Ground Semi-Rigid Polyurea Joint Filler: Comply with ACI 302, shall be a two (2)</li> </ul>	
	<ul> <li>component, 100% solids, UV Resistant compound, with minimum shore "A" hardness of 80. Color to match adjacent concrete surfaces.</li> <li>a. Acceptable manufacturer: "QWIKjoint UVR" by Euclid Chemical.</li> <li>4. Interior Slab on Ground Liquid Densifier/Sealer: Sodium siliconate containing at least 24% solids by weight</li> </ul>	В.
	<ul> <li>weight.</li> <li>a. Acceptable manufacturer: "Euco Diamond Hard" by Euclid Chemical.</li> <li>b. Project service: General Contractor shall contact the Manufacturer prior to bidding for pricing and application requirements, and at least 10 days prior to application of liquid densifier and sealer, for jobsite service. If necessary, the representative will be on site during the first</li> </ul>	
	<ul> <li>application of liquid densifier/sealer.</li> <li>5. Exterior Slab on Ground Curing: ASTM C1315 with a maximum VOC content of 700 g/l. All exterior slab on ground shall be cured using a liquid membrane-forming curing compound.</li> </ul>	C. D.
	<ul> <li>a. Acceptable manufacturer: "Super Rez Seal" or "Super Diamond Clear VOX" by Euclid Chemical.</li> <li>6. Exterior Slab on Ground Urethane Joint Sealant: ASTM C920-86, Type S, Grade NS, and Class 25 Industrial gun grade polyurethane sealant shall exhibit a shore "A" hardness of 40 and an elongation of</li> </ul>	E.
	250%. a. Acceptable manufacturer: "Eucolastic 1 NS/SL" by Euclid Chemical.	F.

## CONCRETE SPECIFICATIONS

ONCRETE MIXES	
comply with ACI 301 requirements for concrete mi or normal-weight concrete determined by either la	xes. Concrete mixes shall be proportioned according to ACI 301,
compressive strength:	aboratory that finx of field test data.
. Interior Slab on Ground: 4000 psi @ 28 day	ys, with a maximum water/cement ratio of 0.53, unless otherwise
indicated on the drawings.	
. Exterior Slab on Ground: 4000 psi @ 28 da indicated on the drawings.	ys, with a maximum water/cement ratio of 0.45, unless otherwise
	gn shall be the same materials provided to the project and shall be
prepared by an independent testing laborat	ory approved by the Owner. Per ACI requirements, if sufficient
	mix shall exceed the desired job strength of concrete by 1,200 ps
n drawings, all other concrete shall not exceed a	$5\frac{1}{2}$ " for the interior and exterior slabs on ground. Unless indicated
	ground shall contain the specified macro-synthetic fiber used at a
	ge may vary based on job-site conditions and shall be calculated by
	t requirements. Required information may include, but not be
	ties, curing, and loading conditions. The "Engineer of Record" shall
	onditions and the resultant required fiber dosage rate. Fibers may nixed in concrete for a minimum of 4 minutes. Euclid Contact: Mike
lahoney: 216-692-8301	
djustment to Concrete Mixes: Mix adjustments m	ay be requested by the general contractor when characteristics of
	other circumstances warrant; at no additional cost to the Owner an
	r revised mix and strength results must be submitted to and and Concrete Contractor shall verify that the concrete mix
	cifications for this project. In addition, the General Contractor and
	y, finishability and setting times are appropriate for concrete
	truck chute. If concrete pumping is required, the proportions
	apabilities of the pumping equipment. For concrete containing
oncrete mixture after the addition of macro-synth	ay be necessary. The addition of water is not permitted into etic fibers
	all be designed to meet 4000 psi compressive strength @ 28 days
nd exhibit <0.04% shrinkage @ 28 days. The mix	shall contain approximately 12 cubic feet of 1" top size aggregate
#57 stone), the specified water reducing admixtur rohibited. Proposed mix design shall be similar to	re, and achieve a w/cm ratio of 0.53 (max.). Air-entrainment is
rombited. Proposed mix design shan be similar to	the following:
nterior Slab on Ground Prototype mix:	
. Materials	Prototype mix
Cement	517-564 lbs.
. Fly ash/slag . Coarse aggregate	Prohibited 12 cubic feet +/50 (#57 stone)
Fine aggregate	7 cubic feet +/- (adjust as necessary)
Water content	274 - 298 lbs. (or less)
Air content (Entrapped Air Only)	3.0% (max.)
. Water Reducer (Type A/F) W/CM Ratio	3oz10oz./100wt +/- (mid-Range) 0.53 (max.)
Initial slump (water)	3"
Final slump (with water reducer)	5.5" (max.)
Maximum Shrinkage	<u>&lt;</u> 0.04% @ 28 days
vtorior Slab on Ground Concretes Concrete sh	all be designed to meet 4000 psi compressive strength @ 28 days
	shall contain approximately 12 cubic feet of 1" top size aggregate
	re and achieve a w/cm ratio of 0.45 (max.). Air-entrainment shall
e as specified. Proposed mix design shall be simil	ar to the following:
xterior Slab on Ground Prototype mix:	
. Materials	Prototype mix
. Cement	517-564 lbs.
. Fly ash/slag	Prohibited, Except in areas of known Alkali Silica Reactivity
	(Up to 20% by weight exchange)
. Coarse aggregate	12 cubic feet $+/50$ (#57 stone)
. Fine aggregate . Water content	7 cubic feet +/- (adjust as necessary) 232-253 lbs. (or less)
Air content (Entrained Air)	6.0% (max.)
. Water Reducer (Type A/F)	3oz10oz./100wt +/- (Mid-Range)
W/CM Ratio	0.45 (max.)
Initial slump (water) Final slump (with water reducer)	3" 5.5" (max.)
Macro Synthetic Fiber (Tuf-Strand SF)	
n. Maximum Shrinkage	<u>&lt;</u> 0.04% @ 28 days
EVECUTION	
EXECUTION	

FALLATION (GENERAL)

e Material: Local state department of transportation approved road base material with 100 percent passing the (38 mm) sieve, 15 percent to 55 percent passing the No. 4 (4.75 mm) sieve, and less than 12 percent passing No. 200 sieve). Install "crusher run" base type material to the minimum compacted thickness as indicated on the struction documents. Crushed stone shall be compacted to 98% Modified Proctor density in accordance with ASTM 57. The in-place density shall be tested for compliance no more than 48 hours prior to concrete placement using D1556, ASTM D2167, or ASTM D2922. One copy of test results shall be forwarded to the Owner. nwork: Design, construct, erect, shore, brace, and maintain formwork according to ACI 301. 1. Form Work: Form all slabs, stairs and other formed concrete with metal forms or <sup>3</sup>/<sub>4</sub>" plywood. For

- exposed surfaces use forms with an undamaged face. Form ties used shall be snap ties. Concrete release agent shall be a VOC compliant, light viscosity, non-staining oil. r Retarder: ASTM E1643 (if indicated on drawings): Install, protect, and repair vapor-retarder sheets; place ets in position with longest dimension parallel with direction of pour. Plastic vapor retarder for concrete floor slab shall be 10-mil (minimum) polyethylene. Seal vapor retarder completely around all pipes and conduits. Inspect vapor retarder thoroughly and repair all
- punctures and tears immediately prior to placing concrete. All laps shall be 18" minimum and sealed with a completely continuous pressure sensitive tape. Reinforcement (if indicated on drawings): Comply with CRSI's "Manual of Standard Practice" for fabricating, ing, and supporting reinforcement. a. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing
- concrete. Install all anchors, ties, chairs, and other supports as per ACI 301/302 requirements, to ensure reinforcing is supported at proper locations. All reinforcing shall be wired in place using #16 annealed
- wire. Wood or clay brick chairs are not acceptable. Welded wire fabric mesh (if indicated on drawings) shall be lapped a minimum of 6" at side laps and secured with tie wires no more than 4 feet on center.

CRETE PLACEMENT

oon Monoxide / Carbon Dioxide Exposure: If the building is enclosed and the interior slab on ground is placed last, eral contractor shall be responsible for monitoring interior slab on ground exposure to excessive exhaust gases aining carbon dioxide (CO<sub>2</sub>) or carbon monoxide (CO). To minimize potential damage to the interior slab on and during placement and curing periods, maximum  $CO_2$  levels shall be 4,500 parts per million and maximum  $CO_2$ s shall be 15 parts per million at concrete surface within 5 feet of any source of exhaust gases. Unvented bustion heaters shall not be in operation during concrete placement, and equipment inside the building during crete placement shall be limited to the equipment necessary to place and finish concrete. Only one concrete truck Il be in the building at any given time, and under no circumstance shall there be any earth moving equipment, trucks, grading equipment, or any other motorized equipment in operation until after the interior slab on ind is placed and protected by specified curing method. Carbon Monoxide and Carbon Dioxide shall be checked g an appropriate meter from a company similar to the following: CEA Instruments, Inc., Phone (201-967-5660); site: HYPERLINK "http://www.ceainstr.com" <u>www.ceainstr.com</u>.

- pply with requirements in ACI 301 for measuring, mixing, transporting, and placing concrete. Cooperate with all other trades. Confer with electrical, mechanical, plumbing, carpenters, steel workers, etc. Make sure that all sleeves, anchor, insert, conduit, floor boxes, pipes, fittings, and other items are installed before placing concrete. Make provisions for door saddles, and thresholds General Contractor shall ensure the accuracy, placement, and alignment of all under-slab work. The placement of all boxes shall be square, level, and true in all respects.
- Concrete shall be mixed and delivered in accordance with the requirements of ASTM C94. ply with ACI 305, "Hot Weather Concrete," and ACI 306, "Cold Weather Concrete" for protection during placing, hing, and curing.
- -Release Agent: Coat all removable wood and metal forming with a VOC compliant, non-staining, concrete formase agent and allow excess liquid to drain off before forms are placed. isport: Place at point of use and consolidate with a concrete vibrator. Do not allow concrete to segregate. imum free fall for concrete is 3 feet. A vibrator is required for placement of concrete in walls, piers, footings, and
- crete Placement: Place on firm, undisturbed earth, or properly compacted fill. Consolidate by vibrating without egation. Do not place concrete when temperature is 40°F and falling or when freezing weather is predicted within
- Place concrete within the minimum temperature range as specified in ACI 301. Protect concrete as required in ACI 301.
- Concrete shall not contain Type III, high early strength cement, calcium chloride, corrosive accelerators, or antifreeze. Concrete shall be placed before initial set occurs, and in no event after it has contained its water content for more than 1½ hours.
- Unless otherwise specified, all concrete shall be placed upon clean, damp, smooth surfaces that are free from running water. Subgrade and base shall be properly consolidated and rut-free. Concrete shall not be placed upon soft mud or dry porous earth. The concrete shall be consolidated and worked, in an approved manner, into all corners and angles of the forms and around reinforcement and embedded fixtures in such a manner as to prevent segregation of the coarse aggregate as required in ACI 301.
- ng concrete placement, carefully protect all masonry and metal building walls by covering with waterproof paper. r may be added in accordance with ASTM C94. Water shall only be added at the job site under the direct ervision of a representative from the Testing Agency. Do not add more water than is indicated as allowable on the n ticket. Water added at the job site shall be documented on the batch ticket.

3.03	FORMED SURFACE FINISHES
Α.	Rough-Formed Finish: As-cast concrete texture impa areas repaired and patched, and fins and other proje chipped off.
В.	<ol> <li>Apply to concrete surfaces not exposed to pu Smooth-Formed Finish: As-cast concrete texture imp and symmetrical manner with a minimum of seams.</li> <li>Completely remove fins and other projections. All ex</li> <li>Apply to concrete surfaces exposed to public applied directly to concrete, such as waterpro</li> </ol>
C.	2. Do not apply rubbed finish to smooth-formed 3. Apply smooth-rubbed finish, defined in ACI 3 Related Unformed Surfaces: At tops of walls, horizor formed surfaces, strike off smooth and finish with a final surface treatment of formed surfaces uniformly indicated.
3.04	CONCRETE FINISHES AND TOLERANCES
Α.	<ul> <li>General: Unless otherwise noted by Owner, interior s</li> <li>Concrete shall be placed, screeded, re-straightened, requirements. Interior slab on ground machine trower walls, columns, and partitions. Do not wet concrete s</li> <li>Laser screeds (required), vibratory screeds, h shall be used to initiate screeding and floatinn plane before excess moisture or bleed water required during concrete placement of the intervent starting floating operations. Do not further di operations. Highway straightedge operations operation, until the minimum specified floor tolerances are achier</li> <li>Trowel finish (Interior Slab on Ground): Trow adjustable blades. Trowel the surface sufficie surface. Care shall be taken not to overwork reinforced blades on final passes. Finishing b any deleterious materials.</li> <li>Trowel finish (Other Floor Areas): Apply a har surfaces exposed to view or to be covered wi over a cleavage membrane, paint, or another Heavy broom finish: Side yard, main entry ar shall receive a heavy broom finish.</li> <li>Protection: Care shall be taken to protect new mats to prevent mud stains and all equipmer oils are not allowed on the interior slab on groups.</li> </ul>
В.	Pet Wash Area: 1. Concrete Finish and Curing: Do not broom fir paragraph A, "General Finishes," Section 3.04
	<ul> <li>troweling, cure using "Kurez DR VOX" or "Kur</li> <li>Joint Filling: Fill all control joints as specified Joint Filler."</li> </ul>
	<ol> <li>Surface Preparation: Epoxy floor coating syst</li> <li>Newly placed concrete surfaces should be cur</li> </ol>

- of the surface should be checked according to ASTM D 4262. Following surface preparation, the cleaned surface should have a minimum surface-tensile strength of 200 psi when tested with an Elcometer or similar pull tester (ASTM D 4541). 4. Products: Initial Coat: "Increte High Performance Epoxy" 1-gallon kit (Gray Color) by Euclid Chemical. Pigmented Chips: "Increte Granite Coat Chips" (Mica Color) by Euclid Chemical. Grout Coat: "Increte High Performance Epoxy" 1-gallon kit (Clear Color) by Euclid Chemical. d. Final Wear Coat: "Increte Polyseal Polyaspartic" 2-gallon kit (Clear Color) by Euclid Chemical. Initial Coat Mixing: Pre-mix Increte High Performance Epoxy (Gray) Part A and Part B, then combine 2 parts by volume of Part A with one part by volume of Part B, and then mix thoroughly using a lowspeed drill motor and a "Jiffy" type mixer. Mix only the amount of material that can be applied during the pot life. Do not aerate the mix. Initial Coat Application: Apply Increte High Performance Epoxy (Gray) at 120sf/gallon. Spread the mixed epoxy with a notched squeegee while wearing spiked shoes. Start from one end of the floor and work backwards and sideways trying to keep a wet-to-wet edge. Roll coating in one direction using a 3/8" nap, shed-resistant roller. Make sure the material is applied as quickly as possible without leaving puddles. Pigmented Chip Application: Broadcast until refusal, Increte Granite Coat Chips (Mica) in a high arcing motion into the wet epoxy. Allow to cure. Once dry, vacuum / scrape off excess flakes. Grout Coat: Apply Increte High Performance Epoxy (Clear) at 120sf/gallon. Allow to dry. Wear Coat: Apply a final coat of Increte Polyseal Polyaspartic (Clear) at 120sf/gallon. Allow to dry. Cove Base: In addition to the seamless integral floor, provide a 4" cove base from the floor to the 10. "FRP" wall transition. Cove base shall consist of a mixture of Increte High Performance Epoxy and finely graded, clean dry, trowelable aggregates, troweled to the previously installed vertical cement board surface, to a height of 4". Create a coved, seamless, integral transition at joint between wall and floor. Broadcast until refusal, Increte Granite Coat Chips (Mica) into the wet epoxy. Finish Cove Base detail with the Grout Coat and Wear Coat as specified herein. Once completed, the floor and cove base shall be seamless in function and appearance. a. Install cement wall board so that the bottom edge is flush with the floor as specified. Install cement wall board tape, similar to Goldblatt Professional Cement Board Tape, to all joints of cement board. Install Fiber Reinforced Panels (FRP) as required. Do not apply adhesive to any areas C. contacting the 4" cove base installation. Do not apply water to any of these surfaces prior to installation of the epoxy floor or cove system. Install 4" cove base directly to cement board. Cove base shall come in direct contact with the d. bottom edge of the Fiber Reinforced Panels so that the floor and cove base shall be seamless in
- function and appearance. Tolerances: ACI 117, "Specifications for Tolerances for Concrete Construction & Materials." General contractor C. is responsible for all costs associated with floor tolerance testing. A copy of the final floor tolerance report shall be provided by the general contractor to Owner within 24 hours of receiving the report from the testing laboratory. 1. All perimeter areas and edges of the interior floor Location Interior Slab on Grour а. F<sub>F</sub> Tolerance F∟ Tolerance

3.05 CAST-IN-PLACE CONCRETE JOINTS

Cuts i and w	ind operator and when cutting action will not tear, abrade, or otherwise damage the concrete surf must be made before concrete develops random contraction cracks. Employ sufficient number of s vorkers to complete cutting of saw joints within 2 hours after final finish of interior slab on ground
saw c 1.	utting, immediately vacuum up and remove all residues completely. Construction Joints:
1.	<ul> <li>a. Construction joints shall be true to line with faces perpendicular to surface plane of cond (refer to drawings), so as not to impair strength or appearance of concrete.</li> </ul>
	<ul> <li>b. Construction joints in slab on grade shall be butt joints with square plate dowels. Do no metal keyways.</li> </ul>
2.	Control Joints: Form weakened-plane control joints, sectioning concrete into areas as indicated
	a. All saw cutting shall be accomplished with a "Soff-Cut" saw, by Husqvarna Construction Products (800-288-5040), equipped with a patented color-coded, diamond blade and sk in <u>new condition</u> . Concrete Subcontractor must have documented successful experience use of this method prior to this project. Using a 1/8" thick blade, cut the interior slab on ground a minimum of 1.25" deep for 4" thick slabs and 1.67" for 5" thick slabs. White cl lines and concrete dust shall be removed completely and immediately after cutting oper
	b. Random depth checks shall be performed by an independent testing company to confirm the specified depth of cut is made. Any cut(s) found to be less than proper depth shall b cut to the proper depth and filled with specified joint filler at the general contractor's ex
3.	<ul> <li>Isolation Joints: Install joint-filler strips at junctions with slabs-on-grade and vertical surfaces, column pedestals, foundation walls, grade beams, and other locations, as indicated.</li> <li>a. Extend joint fillers full width and depth of joint, terminating flush with finished concrete surface, unless otherwise indicated.</li> </ul>

3.06 INTERIOR SLAB ON GROUND PROTECTION AND CURING

- Protection: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 305 for hot-weather protection and ACI 306 for cold-weather protection during placing and curing. For concrete placement during hot, dry, and windy conditions, General Contractor shall use the specified evaporation retarder as per manufacturer instructions to maintain a moist condition and to minimize plastic drying shrinkage cracking.
- **Interior Slab on Ground Concrete Curing**: The interior slab on ground shall be cured using the specified dissipating liquid membrane-forming curing compound. All applications shall be made by a trained applicator immediately following final finish. The concrete and air temperature shall be above 50°F. Surface shall be damp, but not wet and can no longer be marred by walking workmen. Apply "Kurez DR VOX" or "Kurez DR 100" at an application rate of 400sf/gallon.
- **Interior Slab on Ground Protection**: Take the following measures to protect the interior slab on ground: Wrap or diaper all motorized and hydraulic equipment to prevent fluid leaks Provide non-marking tires on rubber-tired vehicles or equip rubber tires with tire boots made of nylon fahric Provide mats at all entrances to prevent mud stains
- Exterior Slab on Ground Concrete Curing: All exterior slab on ground shall be cured using the specified liquid membrane-forming curing compound. Application shall be made by a trained applicator immediately following final finish. Concrete and air temperature shall be above 50°F. Surface shall be clean and damp, but not wet and can no longer be marred by walking workmen. Apply "Super Rez Seal" or "Super Diamond Clear VOX" at an application rate of 400sf/gallon.

rted by form-facing material with tie holes and defective ections exceeding 1/4" in height shall be rubbed down or

- olic view. arted by form-facing material, arranged in an orderly Repair and patch tie holes and defective areas. posed concrete walls are to be grouted and hand rubbed. view or to be covered with a coating or covering material pofing, damp-proofing, veneer plaster, or painting. 01, to smooth-formed finished concrete.
- tal offsets, and similar unformed surfaces adjacent to texture matching adjacent formed surfaces. Continue across adjacent unformed surfaces, unless otherwise
- slab on ground shall be cast in one continuous placement and finished to meet the specified  $F_F$  and  $F_L$  tolerance I finish shall be achieved within a 2" tolerance of all surfaces while finishing concrete. highway straightedges and wood or resinous bull floats g process to form a uniform and open-textured surface appears on the surface. A back-up laser screed is
- erior slab on ground. Remove excess water before sturb surfaces before starting finishing hall continue before, during, and after troweling tolerances are achieved. ue before, during, and after troweling operation, until the
- el surfaces with trowel machines equipped with ntly to produce a smooth, tight, abrasion resistant or burn the surface. Use 6" wide finish style steelades shall be in new condition and completely clean of
- rd trowel finish to surfaces indicated and to floor and slab th resilient flooring, carpet, ceramic, or quarry tile set thin film-finish coating system. nd exit vestibules, cart storage, ramps, aprons, and walks
- vly placed concrete. Entrances shall include clean floor t on the floor shall be diapered to prevent spills. Cutting ound at any time during the construction process.
- hish this area. Place and finish concrete as specified in , "Concrete Finishes and Tolerances." After final ez DR 100" at an application rate of 400sf/gallon. in paragraph B, Section 3.07, "Interior Slab on Ground
- em is designed for application on concrete substrates. Newly placed concrete surfaces should be cured for a minimum of 28 days prior to coating. Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil, and other contaminants. Mechanically abrade the surface to achieve a surface profile equal to CSP 2-3 in accordance with ICRI Guideline 310.2. Properly clean profiled area. The pH

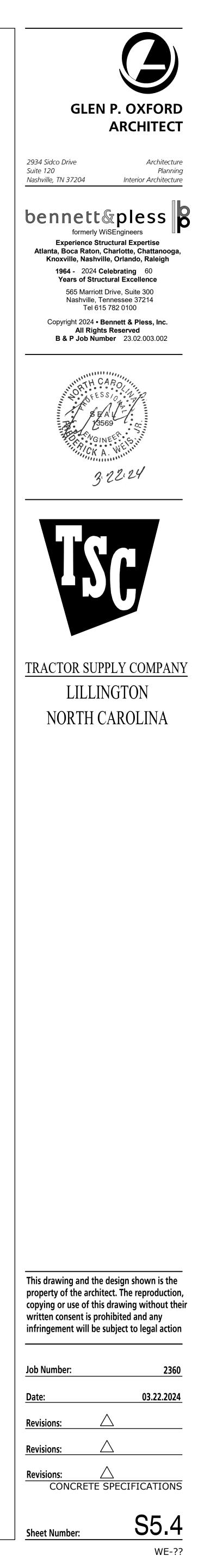
- , and as soon as the slab will support the weight of the ar, abrade, or otherwise damage the concrete surface. contraction cracks. Employ sufficient number of saws 2 hours after final finish of interior slab on ground. After residues completely.
- e with faces perpendicular to surface plane of concrete r strength or appearance of concrete. hall be butt joints with square plate dowels. Do not use
- joints, sectioning concrete into areas as indicated: with a "Soff-Cut" saw, by Husqvarna Construction ith a patented color-coded, diamond blade and skid plate ctor must have documented successful experience in the t. Using a 1/8" thick blade, cut the interior slab on " thick slabs and 1.67" for 5" thick slabs. White chalk ved completely and immediately after cutting operation. ned by an independent testing company to confirm that y cut(s) found to be less than proper depth shall be respecified joint filler at the general contractor's expense. nctions with slabs-on-grade and vertical surfaces, such as ams, and other locations, as indicated.

- 3.07 INTERIOR SLAB ON GROUND JOINT FILLER
- General: Do not commence installation of semi-rigid polyurea joint filler, liquid densifier / sealer and polishing processes until the building is completely enclosed, permanent power and lighting is operating, and the building is thermostatically controlled. Installation of these materials shall commence approximately two weeks prior to "fixture date."
- Joint Filler Installation: Comply with ACI 302 as applicable to materials, applications, and conditions. Surface cleaning of joints: Clean joints immediately before installing joint filler. Remove foreign 1. material that could interfere with adhesion of joint filler by brushing, grinding, blast cleaning, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint filler. Remove loose particles remaining from above cleaning operations by vacuuming or blowing out joints with oil-free compressed air. Also remove all laitance and form-release agents from concrete surface. Clean nonporous surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues could interfere with adhesion of joint sealants. All surfaces to be filled shall be clean and dry.
- Mixing: Joint filler is a two-part product requiring machine mixing and placing. Premix Part "B" separately before using. Follow pump manufacturer's equipment instructions.
- Placement: For proper load transfer, joints must be filled full depth, but in no case should the joint filler be any less than 1" deep in the joint. No backer rod is allowed. Joints should be overfilled and shaved level with the surface, giving the floor joints a flat, smooth appearance. Joint filler separation: The trained joint filling applicator shall include in their bid a cost per linear foot to make one return trip to refill joints if joint filler sidewall separation or splitting exceeds
- 1/16", or if surface profile is concave, chattered or if voids occur. This shall take place one week prior to grand opening, or at Owner's request. Initial cleaning for liquid densifier and sealer application: thoroughly clean the interior slab on ground prior to the initial application of liquid densifier/sealer and polishing process. Completely remove the remnants of the specified dissipating or removable curing compound from the floor surface. The following floor stripper or removal solution shall be applied to the floor at the proper ratio to thoroughly strip, clean and
- remove all curing compound residue: a. "Euco Clean & Strip" by Euclid chemical
- Polishing process and application of liquid densifier / sealer: prior to application, inspect interior slab on ground to ensure that slab is clean and free of dust, grease, oils, or other contaminants that might prohibit the proper application and penetration of the liquid densifier and sealer.
- 1. The following process is provided as a guide. Many factors, including, but not limited to interior slab on ground finish, hardness and flatness will determine the initial diamond tooling, including additional grinding and/or polishing operations required to meet the requirements specified herein. The trained applicator shall provide a test polish, including application of liquid densifier/sealer to a designated area of the interior slab on ground, using the same equipment, tools and methods as will be used to polish the interior slab on ground. Floor polishing and application of liquid densifier/sealer shall not commence until general contractor has accepted the polished interior slab on ground test slab.
- Step one: using equipment with sufficient head pressure ( $\geq$  150 psi), thoroughly clean, and then grind concrete floor with a combo set of 60 grit resin bond diamonds and 100 grit resin bond diamonds (not pads). Each pass must overlap 50% of the previous pass. Grind the concrete floor to allow for an even scratch pattern. Clean floor thoroughly after this pass.
- Step two: apply Euclid diamond hard liquid densifier/sealer at 225 square feet per gallon. Step three: using equipment with sufficient head pressure ( $\geq$  150 psi) polish concrete floor with a combo set of 100 grit resin bond diamonds and 200 grit resin bond diamonds (not pads). Each pass must overlap 50% of the previous pass. Polish the concrete floor to allow for an even scratch
- pattern. Clean floor thoroughly after this pass. Step four: using equipment with sufficient head pressure ( $\geq 150$  psi) polish concrete floor with 400 grit resin bond diamonds (not pads). Each pass must overlap 50% of the previous pass. Polish the concrete floor to allow for an even scratch pattern. Clean floor thoroughly after this pass.
- Step five: apply Euclid diamond hard liquid densifier/sealer at 700 square feet per gallon. Step six: burnish/polish concrete floor with 800 grit diamond impregnated pads Step seven: burnish/polish concrete floor with 1500 grit diamond impregnated pads
- Polish results: perform polishing process to reach a specified overall gloss value (SOGV) of  $\geq$  35 as measured with a HORIBA ig-320, and a specified minimum gloss reading (SMGV) of  $\geq$  30. The trained applicator shall take four gloss measurement readings at 90° from each other, and then averaged for one reading at each location. A minimum of 25 readings shall be taken throughout the interior slab on ground. The overall measurement shall be reported to general contractor within 24 hours of the polishing process. Gloss shall be considered a quantitative value that expresses the degree of reflection when light hits the concrete floor surface. Gloss measurements will be taken independent of ambient lighting and will be taken within a sealed measurement window located beneath the test unit.
- 3.08 URETHANE EXPANSION JOINT SEALANT APPLICATION
- Urethane Joint Sealant Application: Apply joint sealants in accordance with manufacturer's written instructions.
- Back-up material: a. Install appropriate size backer rod, larger than the joint where necessary per manufacturer's recommendations and in a manner to provide concave sealant profile. Where joint depth does not permit installation of backer rod, install adhesive-backed polyethylene bond-breaker tape along the entire back of joint to prevent 3-sided adhesion of
- ioint sealant. 3. Sealant: Verify that the temperature and moisture conditions are within manufacturer's acceptable limits. Using fresh sealant and equipment that is in proper working order, completely fill joint with sealant, filling from bottom up to avoid entrapping air.
- Using clean, dry tool with rounded edge and of appropriate width for each joint, tool freshly installed sealant to provide preferred concave profile, to ensure intimate contact between sealant and substrate and to provide neat appearance. Where surface aggregate does not permit proper tooling, install sealant and backer rod so that face of joint is recessed behind exposed aggregate and sealant is bonded to firm, even surface. Use dry tooling method. Do not use tooling agents such as soapy water or tooling agents that have not been approved by sealant manufacturer.

UNLESS OTHERWISE NOTED BY TSC, CONCRETE FLOOR SLAB SHALL BE CAST AS ONE CONTINUOUS POUR. CONTRACTOR SHALL PROVIDE TERMITE PROTECTION. APPLY TERMITICIDE TO SUB-BASE BEFORE CONCRETE IS POURED. PROVIDE ONE GALLON OF DILUTED TERMITICIDE PER 10 SQUARE FEET OF SLAB AREA. APPLY AN ADDITIONAL 2-4 GALLONS PER 10 LINEAR FEET AT THE FOUNDATION PERIMETER.

NOTE: THIS SPEC IS WRITTEN AROUND ASTM STANDARDS. GENERAL CONTRACTOR AND DEVELOPER SHALL BE RESPONSIBLE FOR OVERALL QUALITY OF PRODUCTS SELECTED AND WORKMANSHIP OF SLAB.

ARCHITECT AND CONTRACTOR TO PAY SPECIAL ATTENTION TO ACHIEVE DESIGN THAT PREVENTS THE CONCRETE FROM HEAVING AT ALL DOORWAYS ESPECIALLY IN COLD WEATHER LOCATIONS.



UNIT NUMBER	RTU-1, 2, 3,	& 4	RTU-5					
AREA SERVED	RETAIL SALES	STOCKROOM		EMPLOYEE LOUNGE	OFFICE	CORRIDOR	I.T. CLOSET	Γ
AREA (SQ. FT)	15,416	4,945		246	78	238	58	
NO. PEOPLE/1000 SQ. FT. (TABLE 403.3)	15	N/A		50	5	-	-	
PEOPLE QUANTITY	50***	N/A		10 *	1	-	-	1
AIRFLOW PER PERSON (TABLE 403.3)	7.5	N/A		5	5	-	-	
CFM / SQ. FT.	.12	.12		.06	.06	.06	.06	1
TOTAL O.A. REQUIRED (CFM)	2,225	NAT. VENTILATION**		65	10	15	5	2
WITH VENTILATION EFFICIENCY = $.8$	2,785	NAT. VENTILATION**		85	15	30	10	2
TOTAL O.A. PROVIDED (CFM)	2,785	NAT. VENTILATION**		85	15	30	10	2

TRACTOR SUPPLY LIGHTING & HEATING SCHEDULE PYLON/BUILDING SIGN BUILDING LIGHTS BUSINESS EMPLOYEE HEATING COOLING SUNDAY PARKING LOT LIGHTS WALL PACKS LIGHTS LIGHTS DUSK (BY PHOTOCELL) DUSK TO DAWN 7:30 AM 7:30 AM 68 DEGREES 74 DEGREES SAME TEMPS PHOTOCELL (ALWAYS AT 8:00 AM AT 8:00 AM AT 10:00 AM ON DURING DARK) DURING THE DAY 8:30 PM 8:30 PM 62 DEGREES 80 DEGREES SAME TEMPS 9:15 PM AT 9:00 PM AT 9:00 PM AT 6:00 PM LZ–1B LZ–1A LIGHTING LZ-3 LZ-2 CONTROL ZONE NOTES: THE SYSTEM CAN BE OVERRIDDEN BY THE OVERRIDE SWITCH IN CASE THE STORE IS OPEN EARLIER CONTROL ZONE OR LATER THAN NORMAL STORE HOURS. NOTES: 1. LZ-X DENOTES ROUTING THRU A LIGHTING CONTRACTOR IN THE UNITIZED BOARD. CONTRACTOR

NOTES:1. LZ-X DENOTES ROUTING THRU A LIGHTING CONTRACTOR IN THE UNITIZED BOARD.CONTRACTOR2. GC RESPONSIBLE FOR PROGRAMMING ALL NON EMS CONTROLLED THERMOSTATS AND LIGHTING CONTROLS.RESPONSIBILITIES3. TEMPERATURE SET POINTS SHALL BE COORDINATED WITH OWNER/EMS SYSTEM PROVIDER AT TIME OF INSTALLATION.<br/>MAINTAIN MIN. 5 DEGREE DEADBAND BETWEEN HEATING AND COOLING SET POINTS.

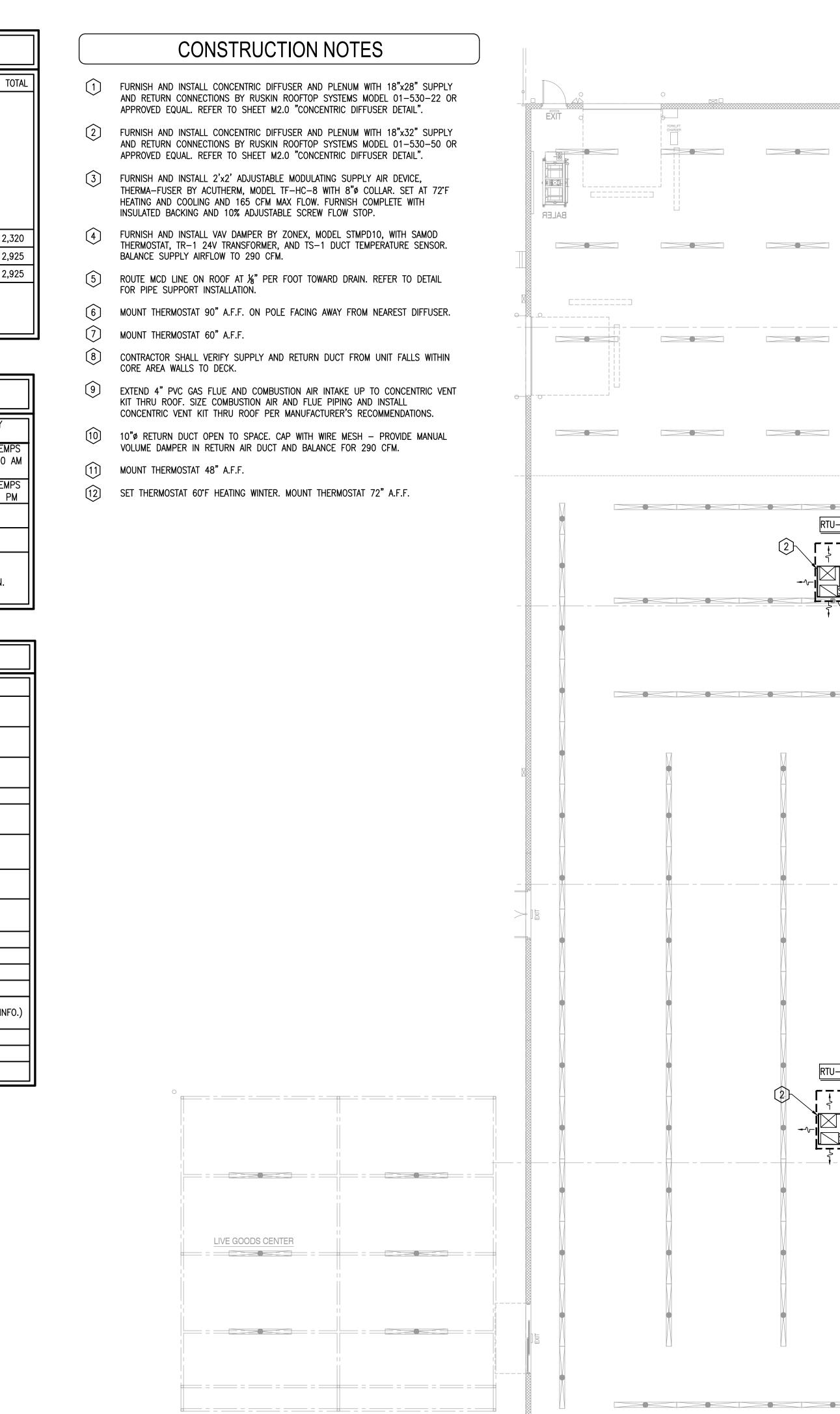
GENERAL NOTES:

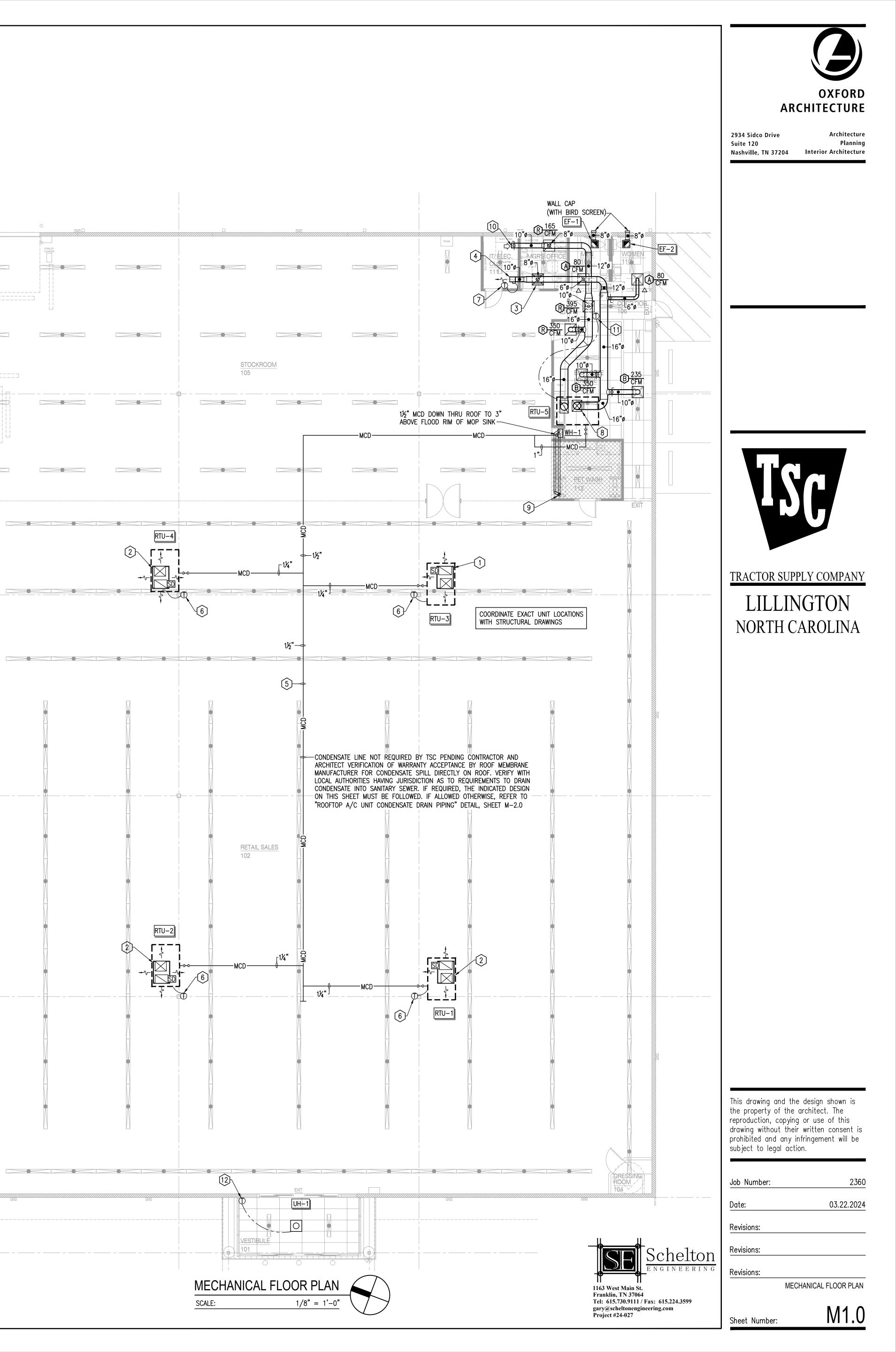
\*\*\* MAXIMUM OCCUPANCY BASED ON OWNER FURNISHED DATA

- THERMOSTATS SERVING RTU-1, 2, 3, & 4 SHALL BE INTERLOCKED IN ORDER TO
- PREVENT SIMULTANEOUS HEATING/COOLING. – REFER TO SHEET E3.1 FOR THERMOSTAT
- MOUNTING DETAILS. - RETURN AIR GRILLE FLOW QUANTITIES
- SHOWN INDICATE 100% AIR FLOW RETURN DURING UNOCCUPIED HOURS OF OPERATION
- CONTRACTORS ARE TO SCHEDULE AND PAY FOR ANY INSPECTIONS REQUIRED

DUE TO APPENDIX 5 OF THE NC STATE BUILDING CODE.

	MECHANICAL LEGEND
SYMBOL	DESCRIPTION
	NEW SUPPLY AIR DUCTWORK
	NEW RETURN AIR DUCTWORK
	NEW EXHAUST AIR DUCTWORK
لھ_	MANUAL VOLUME DAMPER
	CEILING DIFFUSER
	CEILING RETURN AIR GRILLE
	CEILING MOUNTED EXHAUST FAN
B 200 CFM	SUPPLY CFM
A.F.F.	ABOVE FINISHED FLOOR
0.A.	OUTSIDE AIR
—MCD—	MECHANICAL CONDENSATE DRAIN
SD	DUCT MOUNTED SMOKE DETECTOR
EF-1	EQUIPMENT LABEL (SEE MECH. SCHEDULE FOR IN
1	THERMOSTAT
	AIR FLOW
Δ	UNDERCUT DOOR 34"





## ND AIR CONDITIONING SPECIFICATIONS

PART 1. 2.	1 GENERAL FURNISH ALL MATERIALS, LABOR, TOOLS, TRANSPORTATION AND INCIDENTALS TO COMPLETE IN EVERY DETAIL, AND LEAVE IN WORKING ORDER ALL ITEMS CALLED FOR HEREIN OR SHOWN ON THE	C. FAN SHALL BE STATICALLY AND DYNAMICALLY BALANCED, INLET, FORWARD CURVED BLOWER CAPABLE OF DELIVERING DESIGN CFM. FAN SHALL BE QUIET IN OPERATION AND IN VIRPATION ISOLATED
2.		VIBRATION ISOLATED.
	ACCOMPANYING DRAWINGS. IT IS THE RESPONSIBILITY OF CONTRACTOR TO READ ALL SPECIFICATIONS AND CONSULT ALL DRAWINGS WHICH MAY AFFECT THE INSTALLATION AND COORDINATION OF HIS WORK WITH OTHER TRADES.	D. EQUIPMENT SHALL BE COMPLETELY FACTORY WIRED WITH CONTROL AND PROTECTIVE DEVICES. ALL ROOFTOP EQUIPM CFM OR OVER SHALL HAVE SMOKE DETECTOR AND CONTR SMOKE DETECTORS SHUTDOWN.
	CONTRACTOR SHALL COORDINATE AND MAKE MINOR ADJUSTMENTS IN LOCATION OF EQUIPMENT AND MATERIALS AS NECESSARY TO SECURE COORDINATION.	E. FURNISH AND INSTALL CONDENSATE DRAIN PAN FLOAT SV PRIMARY DRAIN PAN, DIVERSITECH MODEL CC-1 OR APPR EQUAL. INTERLOCK WITH DEDICATED UNIT FOR UNIT SHUTI
3.	LAYOUT SHOWN IN DRAWINGS IS BASED ON A PARTICULAR MAKE OF EQUIPMENT. CONTRACTOR SHALL PROVIDE SIX SUBMITTAL SETS OF SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO STARTING WORK. IF ANOTHER MAKE OF EQUIPMENT IS DESIRED, THESE	<ol> <li>FANS</li> <li>A. FANS SHALL BE EQUAL TO THE MAKE AND MODEL(S) IND SHALL BE LOCATED AS SHOWN ON DRAWINGS. FANS SHALL</li> </ol>
	SUBMITTALS SHALL ALSO SHOW ALL REQUIRED MODIFICATIONS AND CHANGES, INCLUDING THOSE INVOLVING OTHER TRADES, AND COST THEREOF SHALL BE INCLUDED IN HIS BID. REQUESTS FOR SUBSTITUTION OF PRODUCTS NOT SPECIFICALLY NAMED SHALL BE	PENN, ACME, LOREN COOK OR GREENHECK. B. FANS SHALL BE FURNISHED COMPLETE WITH VIBRATION IS PLUG TYPE DISCONNECT, NON-YELLOWING PLASTIC GRILLE
	SUBMITTED IN WRITING A MINIMUM OF TEN (10) CALENDAR DAYS PRIOR TO THE BID DATE. REQUESTS SHALL INCLUDE DESCRIPTION OF ITEM(S), NAME OF MANUFACTURER TO BE SUBSTITUTED AND CATALOG DATA. REQUESTS SHALL BE REVIEWED ONLY TO APPROVE OR	OVER LOAD PROTECTION, AND INSULATED HOUSING. 3. UNIT HEATERS (ELECTRIC)
	REJECT SUBMISSION OF PRODUCT. DETAILED SUBMITTALS SHALL BE SUBMITTED AS NOTED IN OTHER PORTIONS OF THIS SPECIFICATION. DO NOT SUBSTITUTE MATERIALS, EQUIPMENT OR METHODS UNLESS SUCH SUBSTITUTION HAS BEEN APPROVED IN WRITING. DO NOT ASSUME THAT MATERIALS, EQUIPMENT OR METHODS WILL BE	<ul> <li>A. UNIT HEATERS SHALL BE EQUAL TO THE MAKE AND MODI INDICATED AND SHALL BE LOCATED AS SHOWN ON THE D UNIT HEATERS SHALL BE BY MARKEL, BERKO, OR EMERSO SHALL BE AS SELECTED BY ARCHITECT.</li> </ul>
	APPROVED UNTIL SPECIFIC WRITTEN APPROVAL HAS BEEN GIVEN. THE BURDEN OF PROOF FOR REQUESTED SUBSTITUTIONS RESTS WITH THE CONTRACTOR. CONTRACTOR MUST RECEIVE APPROVED SUBMITTAL COPY, SIGNED BY ENGINEER BEFORE PROCEEDING WITH ANY MODIFICATIONS. WORK INSTALLED USING UNAPPROVED SUBSTITUTIONS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.	<ul> <li>ROOF CURBS</li> <li>A. CONTRACTOR SHALL PROVIDE ALL ROOF CURBS FOR ROO MOUNTED EQUIPMENT. PREFAB ROOF CURB ASSEMBLIES S GALVANIZED STEEL WITH WOOD NAILER STRIP. PITCHES SH MATCH SLOPE OF ROOF TO PROVIDE LEVEL EQUIPMENT M</li> </ul>
4.	CONTRACTOR SHALL VISIT THE SITE AND FULLY INFORM HIMSELF CONCERNING ALL CONDITIONS AFFECTING SCOPE OF WORK. FAILURE	5. DUCTWORK AND INSULATION
	TO DO SO SHALL NOT RELIEVE CONTRACTOR OF ANY RESPONSIBILITY IN THE PERFORMANCE OF HIS WORK. ALL WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE BY CRAFTSMEN SKILLED IN THIS PARTICULAR WORK. CONTRACTOR SHALL FILE ALL DRAWINGS, PAY ALL FEES AND OBTAIN ALL PERMITS AND CERTIFICATES OF INSPECTION RELATIVE TO THIS WORK.	A. ALL DUCTWORK SHALL BE SHEETMETAL EXCEPT AS NOTED CONSTRUCTION STANDARDS AND RECOMMENDATIONS OF SI SHALL BE FOLLOWED WITH RESPECT TO CONSTRUCTION, INSTALLATION AND SUPPORTING OF ALL DUCTWORK. ALL J LONGITUDINAL AND TRANSVERSE SEAMS SHALL BE SEALED GASKETS, MASTICS (ADHESIVES), TAPES, ETC. ALL SEALAN
5.	COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES, INCLUDING BUT NOT LIMITED TO THE LATEST APPROVED EDITIONS OF THE FOLLOWING:	SHALL BE LISTED IN ACCORDANCE WITH UL 181A OR 181 B. DIMENSIONS FOR SHEETMETAL WORK ON DRAWINGS ARE CLEAR UNLESS OTHERWISE NOTED.
	STATE BUILDING CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL ENERGY CONSERVATION CODE NFPA-90A, NFPA-101, NFPA-54.	C. ALL CONCEALED SUPPLY AND RETURN DUCTS SHALL BE INSULATED WITH 2" THICK FIBERGLASS FLEXIBLE DUCT INS WITH VAPOR BARRIER, MANVILLE CORPORATION, CERTAINTE KNAUF. INSULATION MATERIALS AND COMPONENTS SHALL
6.	ALL EQUIPMENT SHALL BE ARI CERTIFIED AND U.L. LISTED. SYSTEM LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY STRUCTURAL CONDITIONS, COORDINATION WITH	MAXIMUM COMPOSITE FIRE AND SMOKE HAZARD RATINGS FLAME SPREAD, 50 SMOKE DEVELOPED AND 50 FOR FLAM APPLY VAPOR BARRIER JACKET TO COMPLETELY SEAL BAR REPAIR PUNCTURES. STAPLE ALL SEAMS AND SEAL WITH FOIL TAPE.
7.	OTHER TRADES, COORDINATION WITH FINISHES AND OTHER CONDITIONS. STRUCTURAL SUPPORTS SHALL NOT BE CUT OR ALTERED TO ASSURE FIT OF HVAC SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD	D. EXPOSED SUPPLY AND RETURN DUCTS WITHIN CONDITION SHALL HAVE 1" THICK INTERNAL INSULATION AT 1.5 LB D GLUED AND PINNED. WHERE INTERNAL LINER AND EXTERN MEET, THEY SHALL OVERLAP BY MINIMUM OF 6". INSULAT
	OF ONE (1) YEAR AFTER FINAL PAYMENT IS APPROVED. CONTRACTOR SHALL HONOR FACTORY WARRANTIES ON ALL EQUIPMENT PROVIDED AS PART OF THIS SYSTEM. COMPRESSORS SHALL BE PROVIDED WITH A MINIMUM OF FIVE (5) YEAR (PARTS ONLY) WARRANTY.	<ul><li>BE BY MANVILLE CORPORATION, CERTAINTEED OR KNAUF. ARCHITECT.</li><li>E. TRUNK DUCTS SHALL BE ISOLATED FROM UNIT VIBRATION THE USE OF NFPA AND U.L. APPROVED FLEXIBLE CONNECTION</li></ul>
3.	UPON COMPLETION OF PROJECT, ALL SYSTEM EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITION WITH ALL DAMAGE RESTORED TO ACCEPTABLE CONDITION. ALL EQUIPMENT, COMPONENTS AND DUCTWORK SHALL BE INSPECTED AND THOROUGHLY CLEANED,	BOTH SUPPLY AND RETURN. F. ALL ROUND DUCT SHALL BE SIZED AS SHOWN ON DRAWI PROVIDE 2" THICK SLEEVE INSULATION TO PREVENT CONDENSATION. INSULATED FLEXIBLE DUCT MAY BE UTILIZ
).	READY FOR USE. AT COMPLETION OF JOB, ALL MISCELLANEOUS TOOLS, SCAFFOLDING, SURPLUS MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED BY CONTRACTOR. IF HVAC EQUIPMENT IS USED FOR TEMPORARY HEATING, ETC., THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY FOR CLEANING	CONNECTION TO GRILLES AND REGISTERS IN MAXIMUM LEI OF 6'-O" PER BRANCH RUN. FLEXIBLE DUCT SHALL BE CERTAINTEED, WIREMOLD OR MANVILLE CORPORATION, FLEX METAL INSULATED WITH ACOUSTICAL VINYL VAPOR BARRIEF APPROVED WITH CONDUCTANCE .22 AT 75 DEGREES F. FI
	FILTERS, COILS, ETC. FINAL PERMANENT CONNECTIONS OF SERVICES TO UNITS SHALL BE COMPLETE PRIOR TO ANY START-UP OF EQUIPMENT.	CONNECTIONS SHALL BE TESTED IN ACCORDANCE WITH UI AND LISTED AS CLASS 0 OR CLASS 1.
10.	WHERE PIPES, DUCTS, ETC., ARE TO PASS THROUGH WALLS, FLOORS, ETC. SLEEVES SHALL BE PROVIDED PRIOR TO WALL CONSTRUCTION. SLEEVES SHALL BE OF EQUAL OR GREATER GAUGE METAL THAN PIPES OR DUCTS PASSING THROUGH. WHERE SLEEVES PENETRATE EXTERIOR	G. ROUND PIPE TAKE-OFFS SHALL BE SPIN-IN OR AIR-TIGI WITH DAMPERS, NO AIR SCOOPS. ALL ROUND PIPE TO BE CONNECTED WITH SHEET METAL SCREWS AND SUPPORTED 1" METAL STRAP. RECTANGULAR TAKE-OFFS AND BRANCH BE 45 DEGREE ANGLE BOOT OR TEE.
	SURFACES, VOIDS SHALL BE SEALED WATER TIGHT. WHERE SLEEVES PASS THROUGH RATED PARTITIONS, SLEEVE PACKING SHALL BE OF U.L. LISTED FIRE SAFE TYPE.	H. RADIUSED DUCTWORK ELBOWS SHALL HAVE A CENTERLINE OF 1.5 TIMES THE DUCT WIDTH (OR DIAMETER) UNLESS M OTHERWISE.
11.	CONTRACTOR SHALL SUBMIT THREE SETS (3) OF INSTRUCTION BOOKS, INCLUDING INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS, PAMPHLETS OR BROCHURES AND ALL EQUIPMENT WARRANTIES OBTAINED FROM EACH MANUFACTURER OF EQUIPMENT.	I. ALL MITERED ELBOWS (RECTANGULAR AND ROUND) SHAL DOUBLE THICKNESS TURNING VANES INSTALLED UNLESS N OTHERWISE ON DRAWINGS.
	2 PRODUCTS EATING AND COOLING EQUIPMENT	J. ALL DUCTWORK BRANCHES SHALL BE SUPPLIED WITH A V DAMPER FOR BALANCING. VOLUME DAMPER SHALL HAVE A OFFSET TO ACCOMMODATE EXTERNAL INSULATION.
A.	NEW ROOFTOP UNITS SHALL BE THE YORK PREDATOR/SUNLINE SERIES OR LENNOX "L SERIES" ROOFTOP UNITS WITH ELECTRIC COOLING AND GAS HEATING. THE MECHANICAL CONTRACTOR SHALL CONTACT YORK AT 405, 410, 6531, OR LENNOX AT 404, 403, 7083	<ul> <li>AIR DEVICES</li> <li>A. AIR DEVICES SHALL BE PRICE, TITUS OR METALAIRE WITH TYPE SUITABLE FOR CEILING FINISH. ALL CEILING DIFFUSE</li> </ul>
D	CONTACT YORK AT 405–419–6531 OR LENNOX AT 404–403–7083 TO REQUEST PRICING AND TECHNICAL SUPPORT ON THE TRACTOR SUPPLY COMPANY NATIONAL ACCOUNT.	A SPACE SHALL HAVE UNIFORM FACE DIMENSIONS UNLESS OTHERWISE NOTED. B. CEILING DIFFUSERS SHALL BE SQUARE LOUVER TYPE WIT
В.	. UNIT SHALL BE FACTORY ASSEMBLED, TESTED AND HAVE COMPLETE REFRIGERANT – 410A CHARGE, READY TO OPERATE. ALL TUBING JOINTS SHALL BE BRAZED. COIL SHALL BE MINIMUM OF 3-ROWS DEEP.	OPPOSED BLADE DAMPERS, OFF WHITE FINISH, SIZES AS SHOWN ON DRAWINGS.
	ROOFTOP UNIT	
R	ROOF CURB	
=		INSTALL ROOF FLASHING
RIC DI	D CONNECT TO FFUSER. SUPPLY	ANGLES AROUND DUCT
r SHA	LL BE INTERNALLY LINED.	
	1	Į

DEFLECTION GRILLS

NONE

(TYP. 4)

CONCENTRIC DIFFUSER DETAIL

SCALE:

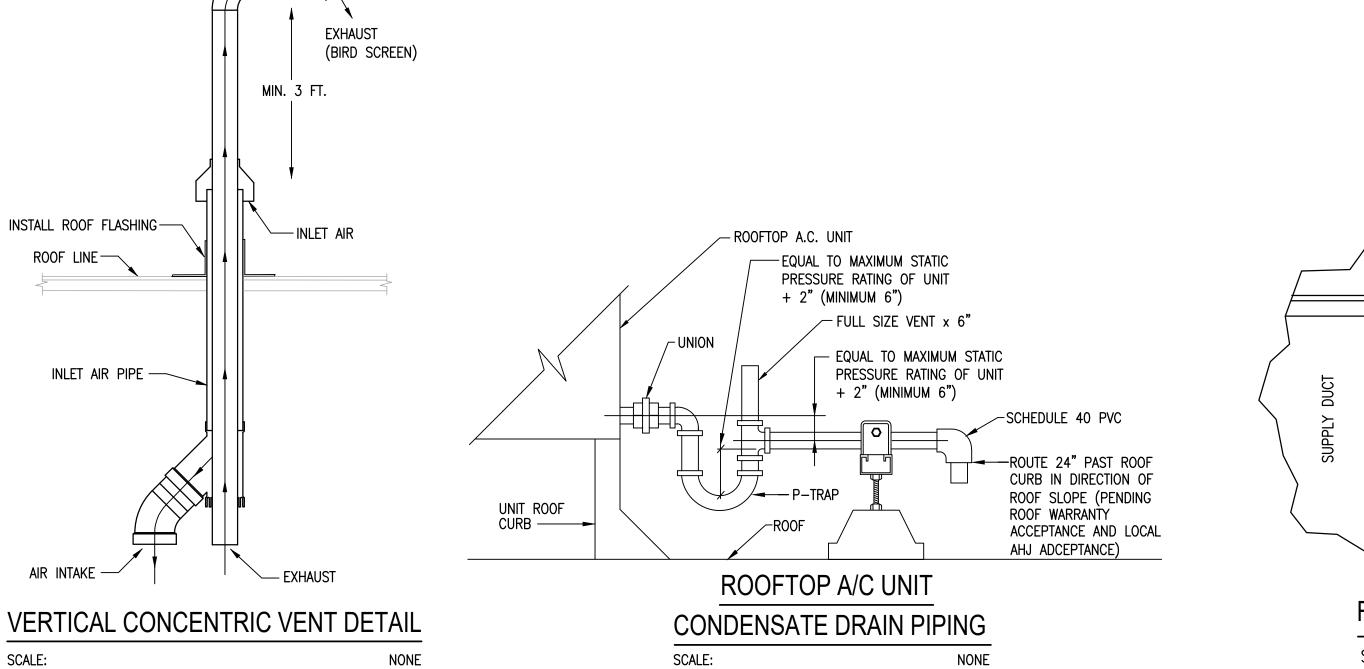
AIR INTAKE

SCALE:

- TATICALLY AND DYNAMICALLY BALANCED, DOUBLE CURVED BLOWER CAPABLE OF DELIVERING SHALL BE QUIET IN OPERATION AND INTERNALLY
- BE COMPLETELY FACTORY WIRED WITH ALL TECTIVE DEVICES. ALL ROOFTOP EQUIPMENT 2000 ALL HAVE SMOKE DETECTOR AND CONTROLS FOR
- TALL CONDENSATE DRAIN PAN FLOAT SWITCH IN
- AN, DIVERSITECH MODEL CC-1 OR APPROVED WITH DEDICATED UNIT FOR UNIT SHUTDOWN.
- EQUAL TO THE MAKE AND MODEL(S) INDICATED AND ) AS SHOWN ON DRAWINGS. FANS SHALL BE
- FURNISHED COMPLETE WITH VIBRATION ISOLATION, INECT, NON-YELLOWING PLASTIC GRILLE, THERMAL
- HALL BE EQUAL TO THE MAKE AND MODEL(S) HALL BE LOCATED AS SHOWN ON THE DRAWINGS. HALL BE BY MARKEL, BERKO, OR EMERSON. FINISH
- LL PROVIDE ALL ROOF CURBS FOR ROOF ENT. PREFAB ROOF CURB ASSEMBLIES SHALL BE WITH WOOD NAILER STRIP. PITCHES SHALL ROOF TO PROVIDE LEVEL EQUIPMENT MOUNTING.
- HALL BE SHEETMETAL EXCEPT AS NOTED. ANDARDS AND RECOMMENDATIONS OF SMACNA ED WITH RESPECT TO CONSTRUCTION. SUPPORTING OF ALL DUCTWORK. ALL JOINTS TRANSVERSE SEAMS SHALL BE SEALED WITH (ADHESIVES), TAPES, ETC. ALL SEALANT MATERIAL N ACCORDANCE WITH UL 181A OR 181B.
- SHEETMETAL WORK ON DRAWINGS ARE INSIDE
- SUPPLY AND RETURN DUCTS SHALL BE EXTERNALLY ' THICK FIBERGLASS FLEXIBLE DUCT INSULATION IER, MANVILLE CORPORATION, CERTAINTEED OR MATERIALS AND COMPONENTS SHALL HAVE ITE FIRE AND SMOKE HAZARD RATINGS OF 25 SMOKE DEVELOPED AND 50 FOR FLAME SPREAD. RIER JACKET TO COMPLETELY SEAL BARRIER AND ES. STAPLE ALL SEAMS AND SEAL WITH REINFORCED
- AND RETURN DUCTS WITHIN CONDITIONED SPACE HICK INTERNAL INSULATION AT 1.5 LB DENSITY, ED. WHERE INTERNAL LINER AND EXTERNAL WRAP OVERLAP BY MINIMUM OF 6". INSULATION SHALL CORPORATION, CERTAINTEED OR KNAUF. PAINT PER
- ALL BE ISOLATED FROM UNIT VIBRATION WITH AND U.L. APPROVED FLEXIBLE CONNECTORS IN
- SHALL BE SIZED AS SHOWN ON DRAWINGS.
- SULATED FLEXIBLE DUCT MAY BE UTILIZED FOR RILLES AND REGISTERS IN MAXIMUM LENGTHS ANCH RUN. FLEXIBLE DUCT SHALL BE EMOLD OR MANVILLE CORPORATION, FLEX WITH ACOUSTICAL VINYL VAPOR BARRIER. U.L. ONDUCTANCE .22 AT 75 DEGREES F. FLEXIBLE
- LL BE TESTED IN ACCORDANCE WITH UL181 E-OFFS SHALL BE SPIN-IN OR AIR-TIGHT TYPE ) AIR SCOOPS. ALL ROUND PIPE TO BE SHEET METAL SCREWS AND SUPPORTED WITH RECTANGULAR TAKE-OFFS AND BRANCHES SHALL
- ORK ELBOWS SHALL HAVE A CENTERLINE RADIUS DUCT WIDTH (OR DIAMETER) UNLESS NOTED
- BOWS (RECTANGULAR AND ROUND) SHALL HAVE
- S TURNING VANES INSTALLED UNLESS NOTED RANCHES SHALL BE SUPPLIED WITH A VOLUME
- L BE PRICE, TITUS OR METALAIRE WITH FRAME
- DR CEILING FINISH. ALL CEILING DIFFUSERS WITHIN AVE UNIFORM FACE DIMENSIONS UNLESS

- C. SUPPLY AIR REGISTERS SHALL BE HORIZONTAL FACE TYPE WITH OPPOSED BLADE DAMPERS, ALUMINUM, OFF WHITE FINISH, SIZES AS SHOWN ON DRAWINGS.
- D. CEILING RETURN AIR AND EXHAUST GRILLES SHALL BE 1/2" x 1/2" EGGCRATE TYPE WITH OFF-WHITE FINISH, ALUMINUM, SIZES AS SHOWN ON DRAWINGS.
- E. SIDEWALL RETURN AIR GRILLES SHALL BE HORIZONTAL FACE TYPE OF ALUMINUM CONSTRUCTION, OFF-WHITE FINISH OR AS SPECIFIED BY OWNER, SIZE AS SHOWN ON DRAWINGS.
- 7. GAS FIRED EQUIPMENT
- A. ALL GAS FIRED EQUIPMENT SHALL BE AGA CERTIFIED.
- B. BURNERS SHALL BE EQUIPPED WITH CONTROLS AND SAFETIES REQUIRED FOR COMPLETE AND FULLY OPERATIONAL SYSTEM. PILOT SHALL BE INTERMITTENT ELECTRIC IGNITION TYPE.
- C. HEAT EXCHANGER SHALL BE PROVIDED WITH A MINIMUM TEN (10) YEAR (PARTS ONLY) WARRANTY.
- 8. FLUES AND VENTS A. CONTRACTOR SHALL FURNISH AND INSTALL ALL FLUES AND VENTS SERVING SEALED COMBUSTION FURNACES SHALL BE POLYPROPYLENE VENT SYSTEM MEETING U.L. 1738 STANDARDS, CENTROTHERM OR APPROVED EQUAL. FLUES AND VENTS SERVING 80% EFFICIENT ATMOSPHERIC BURNERS SHALL BE U.L. LISTED
- DOUBLE WALL TYPE B WITH SIZES AS INDICATED ON DRAWINGS. PROVIDE WINDPROOF VENT CAPS AT ALL FLUE OUTLETS. B. CONSTRUCTION AND HEIGHT OF FLUE ABOVE ROOF SHALL
- CONFORM TO REQUIREMENTS OF NFPA 54 AND LOCAL CODES. 9. SLEEVES
- A. PROVIDE 18 GAGE SLEEVING AT MASONRY WALLS, ETC.
- B. SEAL ALL PENETRATIONS OF RATED PARTITIONS WITH U.L. LISTED FIRE BARRIER MATERIAL.
- 10. CONTROLS
- A. LOW VOLTAGE VENDOR SHALL FURNISH, ROUTE, AND INSTALL CONTROL WIRING & THERMOSTATS FOR HVAC SYSTEMS INCLUDING PACKAGED GAS UNITS. CONTROL WIRING CONNECTIONS TO BE MADE BY MECHANICAL CONTRACTOR. GC SHALL FURNISH AND INSTALL TEMPORARY THERMOSTATS.
- B. INSTALL THERMOSTATS AT 90" A.F.F. UNLESS NOTED OTHERWISE. THERMOSTAT LOCATIONS SHALL BE COORDINATED WITH FINAL LOCATIONS OF WALL-MOUNTED ARCHITECTURAL AND ELECTRICAL EQUIPMENT. FINAL LOCATIONS MUST BE APPROVED BY THE ARCHITECT AND OWNER. THERMOSTATS SHALL NOT BE INSTALLED ON EXTERIOR WALLS IF INTERIOR WALLS ARE AVAILABLE WITHIN SPACE SERVED BY THERMOSTAT. SHOULD THE THERMOSTAT REQUIRE INSTALLATION ON AN EXTERIOR WALL AN INSULATED BACKING PLATE MUST BE PROVIDED TO PREVENT FALSE READINGS BY THE THERMOSTAT.
- 11. CONDENSATE PIPING
- A. CONDENSATE DRAINS SHALL BE CONSTRUCTED WITH SCHEDULE 40 PVC, CPVC PIPING, OR TYPE L HARD DRAWN COPPER, SIZE AND ROUTING INDICATED ON PLANS. COPPER DRAIN PIPE AND FITTINGS SHALL BE JOINED USING 95-5 SILVER SOLDER, PVC PIPE AND FITTINGS SHALL BE JOINED USING SOLVENT CEMENT. PROVIDE 1/2' THICK, CLOSED CELL ELASTOMERIC INSULATION, ARMAFLEX, RUBATEX OR APPROVED EQUAL. FROM UNIT CONNECTION TO DISCHARGE FOR ALL INTERIOR CONDENSATE DRAIN PIPING. PROVIDE P-TRAP WITH CLEANOUT AT EACH EQUIPMENT CONDENSATE DRAIN CONNECTION. PROVIDE POSITIVE SLOPE FOR CONDENSATE DRAIN PIPING FROM P-TRAP TO DISCHARGE, MINIMUM SLOPE 1/8" PER LINEAR HORIZONTAL FOOT. SUPPORT CONDENSATE PIPING AT 5'-0" MAXIMUM INTERVALS.
- PART 3 EXECUTION
- 1. FURNISH AND INSTALL SYSTEM IN ACCORDANCE WITH REFERENCED STANDARDS, APPLICABLE CODES, MANUFACTURERS RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.
- 2. CONTRACTOR SHALL TEST AND BALANCE MECHANICAL SYSTEM. CONTRACTOR SHALL PROVIDE ALTERNATE PRICE FOR 3RD PARTY AABC CERITFIED TEST & BALANCE TO ASSURE CONFORMANCE WITH DESIGN. CONTRACTOR SHALL SUBMIT WRITTEN TEST AND BALANCE REPORT TO LOCAL CODE OFFICIALS AS REQUIRED.
- 3. CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- 4. CONTRACTOR SHALL PROGRAM ALL THERMOSTATS FOR OCCUPIED/UNOCCUPIED HOURS OF OPERATION. HOURS OF OPERATION AND TEMPERATURE SET POINTS PER OWNERS REQUEST. FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS.

- FAN SCHEDUL FAN IDENTIFICATION EF-1 I FF-MANUFACTURER GREENHECK GREE MODEL NUMBER SP-A190 | SP-/ SERVICE AREA MEN'S RR WOME CABI FAN TYPE CABINET CENT. 150 ICFM 150 0.35 0.35 1.5 SONES 1.5 46 46 WATTS MOTOR POWER VOLTAGE/PHASE 115/60/1ø 115 WEIGHT 17 LBS CCESSORIES REQUIRED A,B,C A.B.C ACCESSORIES: A: BACKDRAFT DAMPER B: WALL CAP C: VARIABLE SPEED CONTROLLER RFMARKS:
  - **ELECTRIC UNIT HEATER S** IDENTIFICATION UH-1 MANUFACTURER MARKEL MODEL NO. Y3485A1 κw 425 FAN CFM AMPS 6.1 480/3ø VOLTAGE / PHASE APPLICABLE NOTES 1,2,3,4,5,6,7 NOTES: UNITS SHALL BE U.L. LISTED PROVIDE THERMAL OVERLOAD PROTECTION. PROVIDE REMOTE THERMOSTAT. SET TEMPER PROVIDE UNIT WITH INTEGRAL DISCONNECT
  - PROVIDE 24 VOLT TRANSFORMER START/STOP RELAY. ACCEPTABLE EQUAL SHALL BE QMARK.
  - LOW VOLTAGE VENDOR TO PROVIDE, INSTALL AND PRE-WIRE FOR FUTURE EMS. SEE DRAWING E-3A FOR DETAILS.



FAN SCHEDULE				
FAN IDENTIFICATION	EF-1	EF-2		
MANUFACTURER	GREENHECK	GREENHECK		
MODEL NUMBER	SP-A190	SP-A190		
SERVICE AREA	MEN'S RR	WOMEN'S RR		
FAN TYPE	CABINET CENT.	CABINET CENT.		
CFM	150	150		
ESP	0.35	0.35		
SONES	1.5	1.5		
MOTOR POWER	46 WATTS	46 WATTS		
VOLTAGE/PHASE	115/60/1ø	115/60/1ø		
WEIGHT	17 LBS	17 LBS		
ACCESSORIES REQUIRED	A,B,C	A,B,C		
ACCESSORIES: A: BACKDRAFT DAMPER B: WALL CAP C: VARIABLE SPEED CONTROLLER				
REMARKS: - EF-1 & 2 SHALL BE INTERLOCKED WITH LIGHTSWITCH SERVING THEIR RESPECTIVE SPACES.				

SCHEDULE	]
	ł
RATURE AT 60°F SWITCH.	

PACKAG	GED GAS FIRED	AC UNIT SCHEDUL	_E 424.6 SQ FT. PER TO
IDENTIFICATION	RTU-1, 2 & 4	RTU-3	RTU-5
MANUFACTURER	YORK	YORK	YORK
MODEL NUMBER	ZJ150N18	ZJ120N18	ZJ037N08
NOMINAL TONS	12-1/2	10	3
SEER	-	-	15.0
EER	12.0	12.0	12.2
VOLTAGE	480/3ø	480/3ø	480/3ø
UNIT M.C.A.	39.1	24.2	9.6
UNIT M.O.C.P.	50.0	30.0	15.0
TOTAL COOLING CAP. (MBH)	170.8	130.0	37.0
SENSIBLE COOLING CAP. (MBH)	121.3	96.0	26.8
FAN SECTION:			
CFM SUPPLY	5,000	4,000	1,200
CFM O.A. MIN	735	580	140
EVAP. FAN H.P.	5	3	1-1/2
ESP-IN WG.	.8	.8	.35
HEATING SECTION:			
FUEL	NAT. GAS	NAT. GAS	NATURAL GAS
HEATING INPUT (MBH)	180.0	180.0	80.0
HEATING OUTPUT MBH	144.0	144.0	65.0
FILTER	2"	2"	2"
OPERATING WT. (LBS.)	1,615	1,405	1,075
NOTES	1 THRU 22	1 THRU 22	1 THRU 8, 10 THRU 22

NOTES:

TRACTOR SUPPLY COMPANY HAS NATIONAL ACCOUNTS WITH YORK/JOHNSON CONTROLS & LENNOX. FOR YORK PLEASE EMAIL JOE.RAY@JCI.COM OR CALL 1-405-419-6613 FOR YORK/JOHNSON CONTROLS QUOTATIONS AND TECHNICAL SUPPORT. FOR LENNOX PLEASE EMAIL STEVEN.PETER@LENNOXIND.COM OR CALL 1-800-367-6285 FOR LENNOX QUOTATIONS AND TECHNICAL SUPPORT. ACCEPTABLE ALTERNATE MANUFACTURER: LENNOX 'L' SERIES. MUST BE COMPATIBLE WITH TSC FURNISHED EMS. MUST BE EQUAL TO OR BETTER THAN YORK PREDATOR/SUNLINE SERIES INCLUDING HINGED DOORS, HIGH EFFICIENCY, WARRANTY, AND MAINTENANCE REQUIREMENTS.

COOLING CAPACITIES BASED ON 80°F DB / 67°F WB ENTERING COIL, 95°F DB ENTERING CONDENSER. HEATING CAPACITY BASED ON NATURAL GAS AT 1000 BTU PER CUBIC FOOT AND 0.5 SPECIFIC GRAVITY.

PROVIDE FACTORY FURNISHED 14" HIGH INSULATED ROOF CURB.

PROVIDE FACTORY INSTALLED DIRTY FILTER SWITCH AND BLOWER PROVING SWITCH. PROVIDE 1 YEAR LABOR AND 3 YEAR PARTS WARRANTY.

PROVIDE 5 YEAR PARTS WARRANTY ON COMPRESSORS. . PROVIDE 10 YEAR HEAT EXCHANGER WARRANTY.

9. PROVIDE FACTORY INSTALLED SMOKE DETECTORS ON THE RETURN DUCT DISCHARGES. 10. PROVIDE FACTORY INSTALLED DIFFERENTIAL ENTHALPY ECONOMIZER AND BAROMETRIC RELIEF. O.A. DAMPER SHALL CLOSE DURING

UNOCCUPIED HOURS. . MECHANICAL CONTRACTOR SHALL PROVIDE A SECOND SET OF FILTERS TO BE INSTALLED PRIOR TO STORE OPENING.

UNIT SHALL USE R-410A REFRIGERANT (NO EXCEPTIONS). 13. MECHANICAL CONTRACTOR SHALL PROVIDE A START UP CHECKLIST CONFIRMING ALL UNITS HAVE BEEN PROPERLY STARTED AND CONFIRMED RUNNING PROPERLY. CHECKLIST MUST BE PROVIDED TO TSC VIA CLOSE-OUT BINDER.

14. STENCIL TAG NUMBER ON SIDE OF UNITS (FACING ROOF HATCH) WITH 3" HIGH LETTERS AND BLACK EXTERIOR PAINT. 15. NON-POWERED CONVENIENCE OUTLET.

16. PROVIDE COIL (HAIL) GUARDS. 7. ALL WORK TO INSTALL ALL CONTROL DEVICES AND WIRING SHALL BE COORDINATD BETWEEN THE GENERAL CONTRACTOR,

MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR, LOW VOLTAGE VENDOR, AND EMS VENDOR. 18. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS AND GANG BOXES FOR THERMOSTATS. SEE DRAWINGS E5.1

FOR DETAILS. 19. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS AND GANG BOXES AS SHOWN ON E5.0. AS NECESSARY FOR FINAL CONNECTIONS TO FUTURE EMS. COORDINATE FINAL LOCATION OF EMX PANEL WITH EMS VENDOR. SEE DRAWING E5.1 FOR

DETAILS. 20. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY THERMOSTATS AND WIRING FOR CONNECTION TO HVAC UNITS. VERIFY FINAL HEIGHT AND PROVIDE 5' OF ADDITIONAL COILED CABLE. 1. LOW VOLTAGE VENDOR SHALL FURNISH AND INSTALL FINAL THERMOSTATS, CARBON DIOXIDE SENSORS, HUMIDITY SENSORS, AND

PRE-WIRE FOR EMS. SEE DRAWINGS E5.1 FOR DETAILS. 22. FINAL CONTROL CONNECTIONS TO EMS PANEL TO BE MADE BY EMS VENDOR.

REMARKS: - PROVIDE POWER TO UNITS THROUGH KNOCK-OUTS, OR IN CURB. DO NOT PENETRATE ROOF

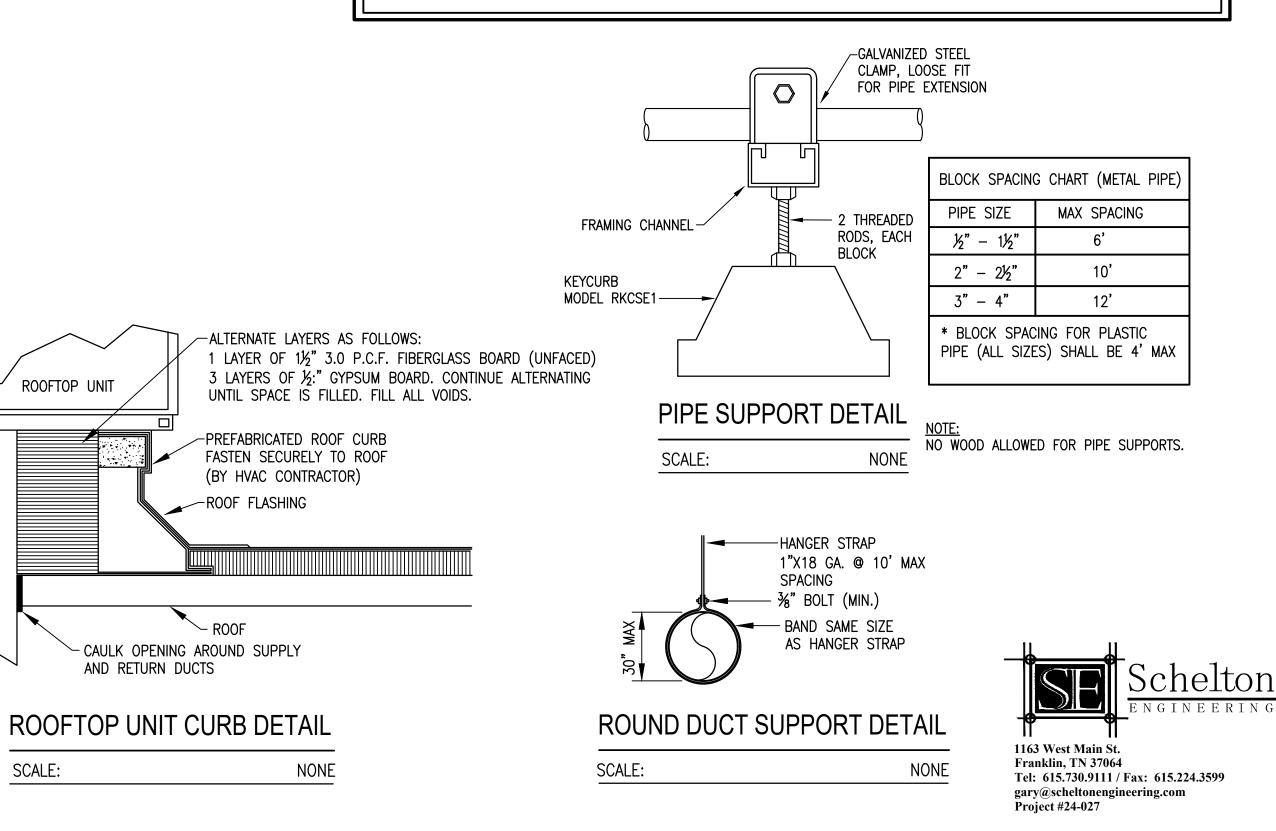
REFER TO E3.1 FOR THERMOSTAT MOUNTING INSTRUCTIONS. - O.A. DAMPER SHALL CLOSE DURING UNOCCUPIED HOURS.

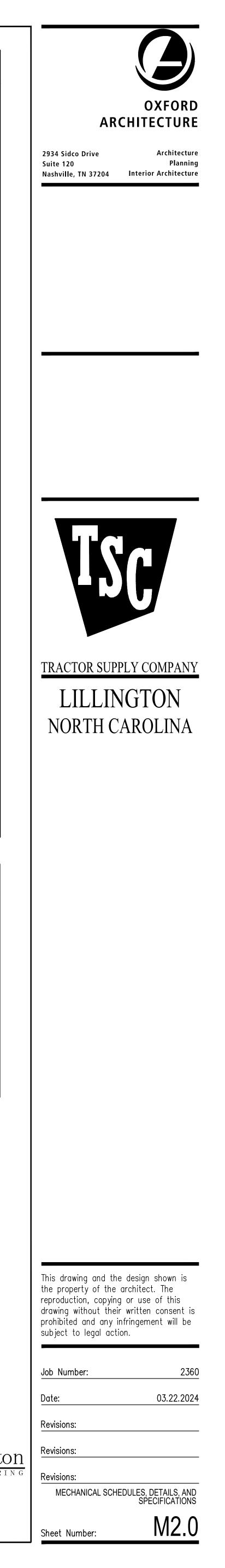
	AIR DISTRIBUTION SCHEDULE							
SYMBOL	MFGR. & MODEL #	DEVICE	FACE	DEVICE SIZE	VOLUME CONTROL	COLLAR SIZE	REMARKS	
Â	TITUS MOD. TMSA-AA	SUPP. DIFF.	LOUVERED	24" × 24"	M.V.D.	6 <b>"</b> ø	SEE NOTE 1-4	
B	TITUS MOD. TMSA-AA	SUPP. DIFF.	LOUVERED	24" x 24"	M.V.D.	10 <b>"</b> ø	SEE NOTE 1-4	
R	TITUS MOD. 50 F	RET. GRILLE	EGGCRATE	24" x 24"			SEE NOTE 5	
NOTES:								

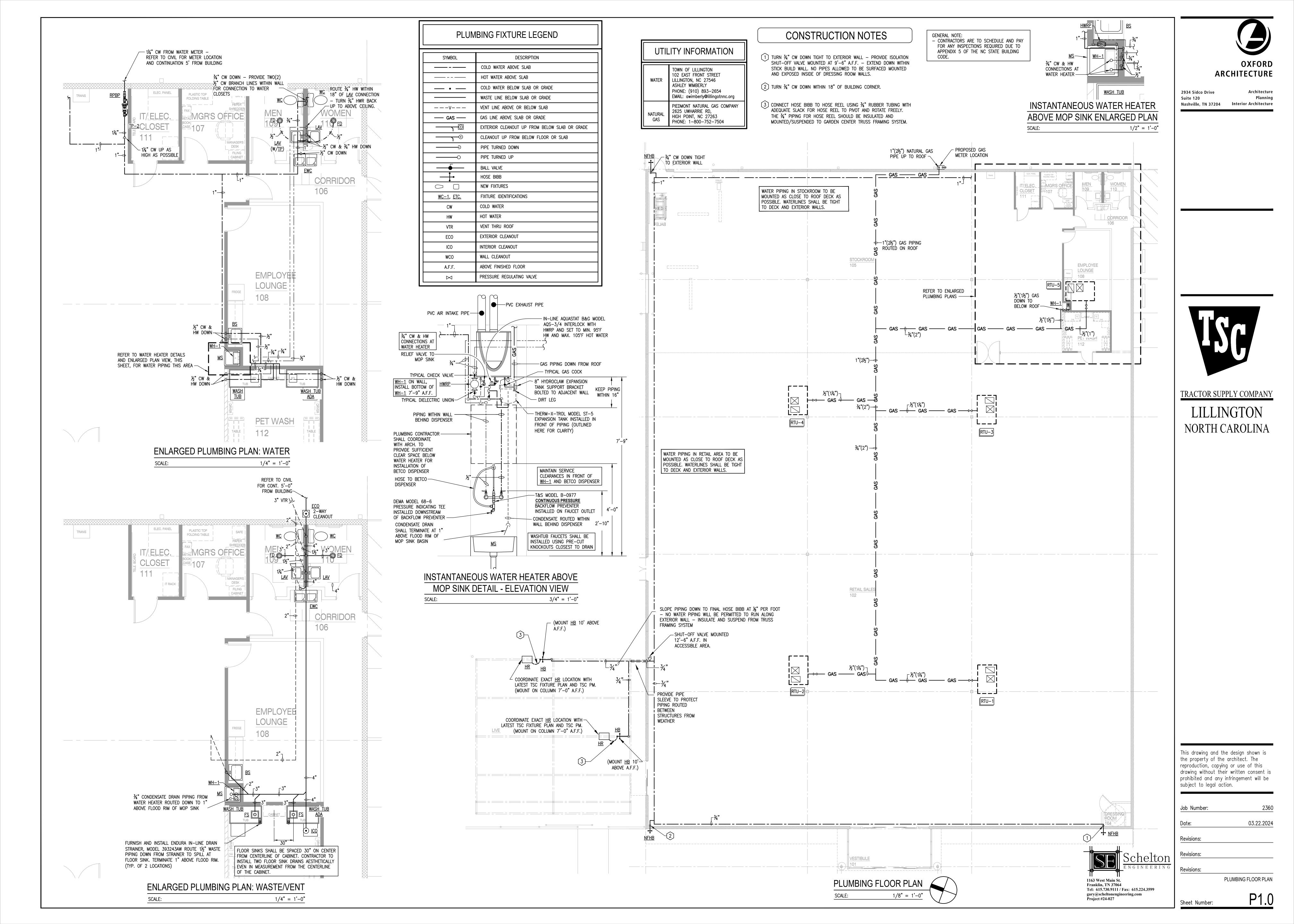
4. ALL SQUARE CEILING DIFFUSERS ARE TO BE FULL LOUVERED

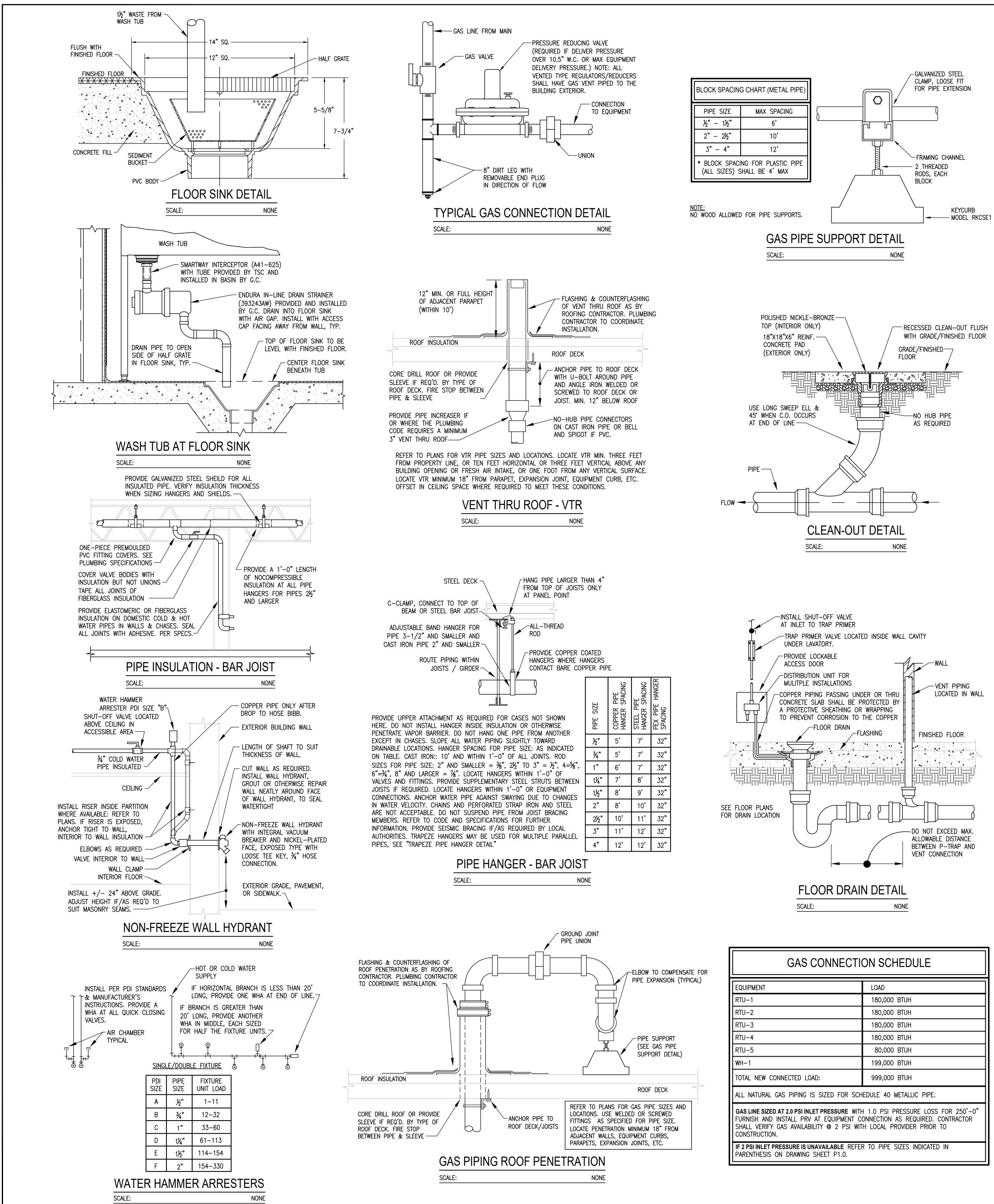
1. ALL AIR DEVICES TO HAVE COLOR PER ARCHITECT 2. PROVIDE ROUND NECK COLLARS FOR CEILING DIFFUSERS

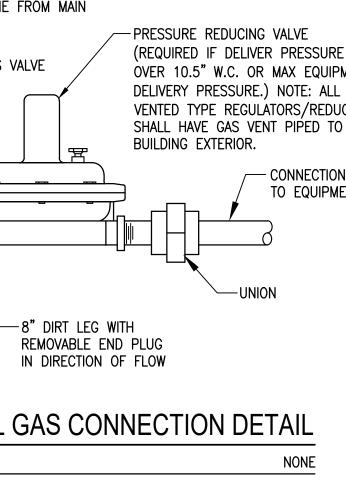
FACE (NO BLANK PANEL) UNLESS NOTED OTHERWISE. 5. PROVIDE RETURN AIR GRILLES WITH NECK SIZE EQUIVALENT 3. PROVIDE LAY-IN TYPE BORDER FOR CEILING WITH ACOUSTICAL TO RUNOUT SHOWN ON DRAWING. TILE AND SURFACE MTD. TYPE BORDER FOR GYPBOARD CEILINGS (REFER ARCHITECTURAL DWG'S)

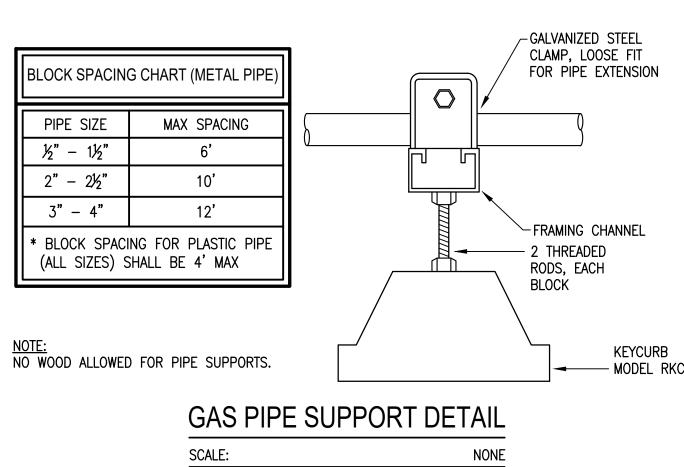








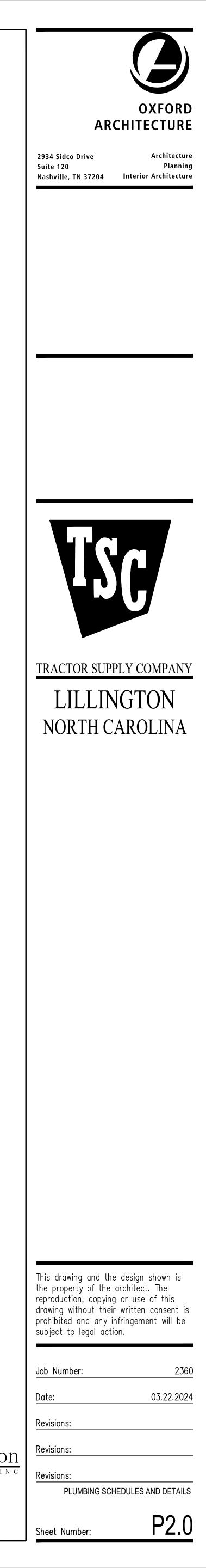


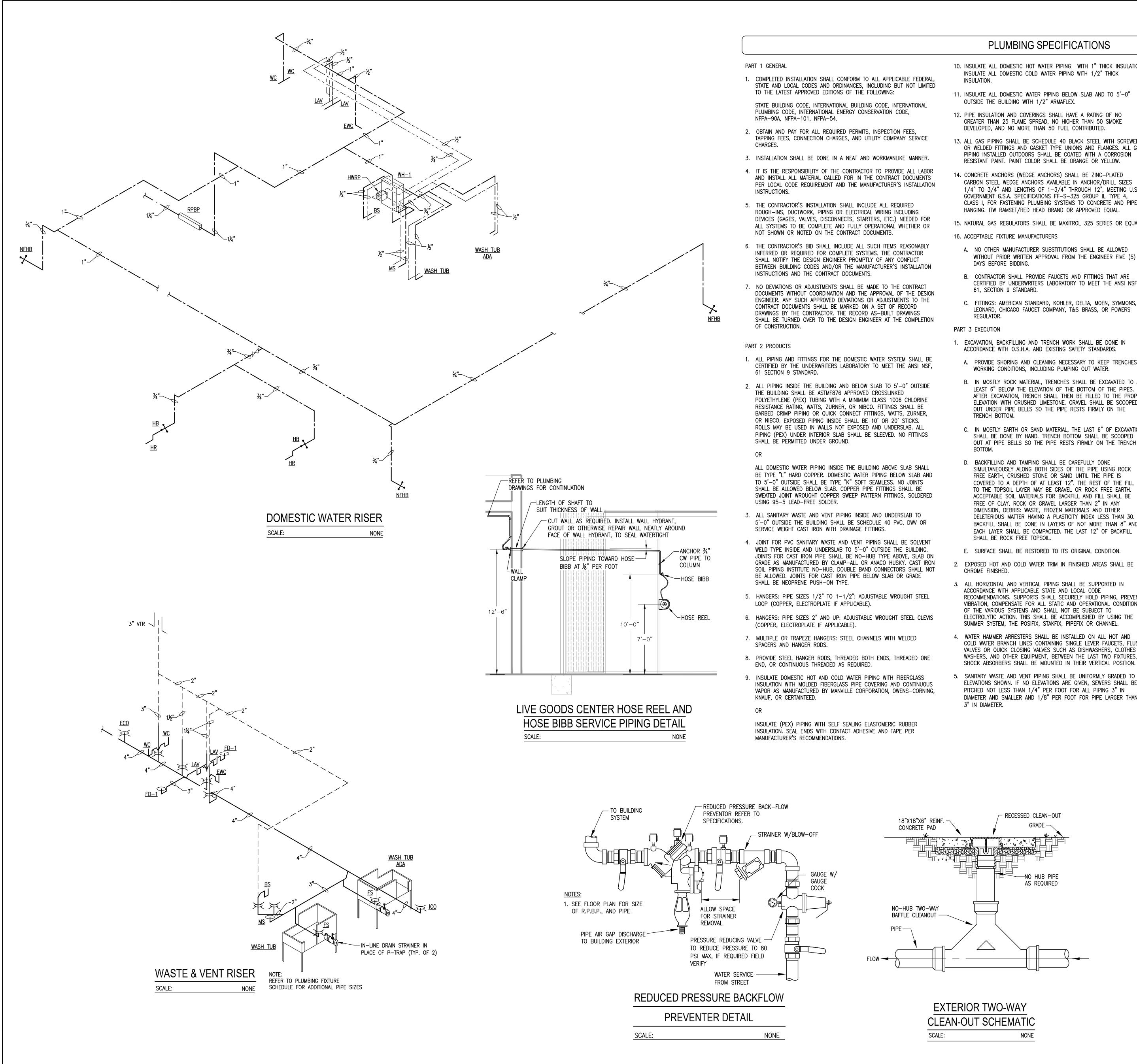


	PLUMBING FIXTURE SCHEDULE				
			UTILIT	ES	
MARK WC	DESCRIPTION WATER CLOSET (FLOOR MOUNTED ADA., PRESSURE ASSISTED FLUSH TANK, MOTION ACIVATED): KOHLER HIGHLINE K-3519, 12" ROUGH-IN, 1.0 GPF, WITH SLOAN FLUSHMATE PRESSURE ASSIST, LOW CONSUMPTION, VITREOUS CHINA, 17-1/8" HIGH, ELONGATED BOWL FLUSH TANK WATER CLOSET WITH LEFT HAND TRIP LEVER. PROVIDE BEMIS 1055 SSC ELONGATED OPEN FRONT TOILET SEAT, K-5420 BOLT CAPS. FOR RIGHT HAND TRIP LEVER PROVIDE WITH ALTERNATE TANK CONFIGURATION MODEL K-3519-RH. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CORRECT TANK SELECTION WITH LATEST ARCHITECTURAL DRAWINGS TO ACCOMMODATE ADA ACCESSIBILITY PRIOR TO ORDERING. RETROFIT WITH INTELLI-FLUSH K-100101 WALL SENSOR, POWERED BY FOUR(4) AA BATTERIES, CHROME FINISH. INTELLI-FLUSH SYSTEM MUST BE ORDERED SEPARATELY FROM FLUSHMATE. CONTACT LORI FELTMATE AT FLUSHMATE FOR ORDERING	CW ½"	HW	DR 4"	VENT 2"
LAV	INFORMATION. PH:(248)446-8159 EMAIL: Lori.Feltmate@Flushmate.com LAVATORY (ACCESSIBLE, WALL HUNG, MOTION ACTIVATED): KOHLER KINGSTON WALL-MOUNT K-2005, VITREOUS CHINA LAVATORY WITH A ZURN AQUASENSE BATTERY POWERED Z6915-XL FAUCET, POLISHED CHROME FINISH, KOHLER K-23726 DRAIN, KOHLER K-8998 P-TRAP AND KOHLER K-23725 CAST IRON CLEANER. MOUNT FIXTURE WITH FLOOD RIM 34" AFF. FURNISH AND INSTALL WITH ZURN MODEL ZW3870XLT THERMAL MIXING VALVE FOR MAX. 110°F HOT WATER.	<u>k</u> "	½"	11/4"	1¼"
BS	BREAKROOM SINK: (SINGLE BOWL, S.S., GOOSENECK): PROVIDED BY TRACTOR SUPPLY COMPANY & INSTALLED BY CONTRACTOR.	½"	¥2"	1½"	11/4"
EWC	ELECTRIC WATER COOLER (ACCESSIBLE, MOTION SENSOR, DUAL-HEIGHT): MURDOCK MODEL A172108F-UG-B512-BCD WITH INFRARED SENSOR CONTROL AND WALL MOUNTING BRACKET. 8 GPH, 115/1/60. MOUNT HIGH UNIT AT 42" MAX. FROM FLOOR TO SPOUT OUTLET AND LOW UNIT AT 36" MAXIMUM FROM FLOOR TO SPOUT OUTLET. PROVIDE MCGUIRE 8912 P-TRAP AND MCGUIRE 165 SUPPLY WITH STOP. COORDINATE WITH ELECTRICAL CONTRACTOR TO LOCATE RECEPTACLE BEHIND WATER COOLER CABINET. PROVIDE WITH BOTTLE FILLER. CONTACT BERRY JONES FOR ORDERING INFORMATION. PH: 800-459-7099 EMAIL: berry.jones@hjcinc.com.	¥2"	X	1¼"	1½"
MS	MOP SINK : MUSTEE MODEL 63M 24"x24" FIBERGLASS MOP SERVICE BASIN. COMPLETE WITH MODEL 63.401 EXTRUDED BUMPER GUARD, CHICAGO MODEL 897–RCF CHROME PLATED SPOUT WITH VACUUM BREAKER, $\frac{3}{4}$ " HOSE THREAD OUTLET, PAIL HOOK. WALL SUPPORT, INTEGRAL STOPS, MODEL 369 $\frac{2}{2}$ " METAL LEVER HANDLES AND 36" LENGTH OF THREADED HOSE. FURNISH AND INSTALL T&S MODEL B–0977 THREADED CONTINUOUS PRESSURE VACUUM BREAKER AND DEMA MODEL 68–6 PRESSURE INDICATING TEE ON FAUCET OUTLET FOR HOSE CONNECTION TO BETCO DISPENSER. VACUUM BREAKER TO BE INSTALLED UPSTREAM OF PRESSURE INDICATING TEE.	<i>У</i> ,"	<i>У</i> ,"	3"	1½"
WH-1	WATER HEATER (GAS INSTANTANEOUS, 96% EFFICIENCY, 120V/10, 4 AMPS): A.O. SMITH MODEL 540H OR EQUAL, INTERIOR WALL MOUNTED, GAS, INSTANTANEOUS WATER HEATER, RATED AT 13,000 TO 199,000 BTUH, WITH CAPACITY OF 0.26–9.8 GAL./MIN. WATER HEATER SHALL CONFORM TO IECC 701, 504, AND ASHRAE 90.1. SET TO 120°F OUTLET TEMP. PROVIDE W/ ISOLATION VALVE, CONDENSATE NEUTRALIZER PART #100112163, AND CONCENTRIC VENT KIT.	3⁄4"	3⁄4"	Х	Х
FD	FLOOR DRAIN (3" DIA. OUTLET): ROUND TOP, J.R. SMITH MODEL 2005Y—A—P050—PB WITH CAST IRON BODY AND FLASHING COLLAR, TRAP PRIMER CONNECTION AND POLISHED BRONZE STRAINER. INSTALL WITH TOP FLUSH WITH FINISHED FLOOR.	Х	Х	3"	1½"
TP	TRAP PRIMER: JOSAM FIG. NO. 88250, AUTOMATIC TRAP PRIMER, MOUNTED INSIDE WALL CAVITY UNDER LAVATORY. PROVIDE 8" X 8" ACCESS PANEL TO CLEAR LAVATORY ROUGH-IN AND PAINTED TO MATCH WALL. RUN 1/2" COPPER LINE FROM TRAP PRIMER TO ADJACENT FLOOR DRAIN AS SHOWN ON THE CONTRACT DRAWINGS. INLINE FLOOR DRAIN TRAP SEAL MAY BE USED IN LIEU OF TRAP PRIMERS PENDING LOCAL CODE APPROVAL. TRAP SEALS SHALL MEET REQUIREMENTS OF ASSE 1072 AND SHALL BE MADE OF CHEMICALLY RESISTANT ELASTOMER.	¥"	Х	Х	Х
WHA	WATER HAMMER ARRESTER: JOSAM FIG. NO. 75001 THROUGH 75006, SIZE AS RECOMMENDED BY MANUFACTURER.	Х	Х	х	Х
HB	HOSE BIBB (METAL WHEEL HANDLE): WOODFORD MODEL 24, ANTI SIPHON, NIDEL MODEL 34HF VACUUM BREAKER. PROVIDE WITH METAL WHEEL HANDLE.	3⁄4"	Х	X	Х
NFHB	HOSE BIBB (NON-FREEZE, KEYED HANDLE): WOODFORD MODEL 67, ¾", AUTOMATIC DRAINING BRASS FINISH, NIDEL MODEL 34HA VACUUM BREAKER. PROVIDE LOOSE TEE KEY FOR EACH HYDRANT.	3⁄4"	Х	Х	Х
FS	FLOOR SINK (14"X14"): ZURN MODEL FS12-6-PV3 14"X14" PVC FLOOR SINK WITH 3" PVC HUB CONNECTION. FURNISH WITH SEDIMENT BUCKET JP2370-Y3, HALF-GRATE JP2370-H, AND P-TRAP. FLOOR SINKS SHALL BE INSTALLED 30" ON CENTER FROM CENTERLINE OF MOP SINK.	х	Х	3"	1½"
WASH TUB & WASH TUB ADA	PET WASH TUB: TUB AND ANTI-SIPHON TYPE FAUCET TO BE PROVIDED BY TSC AND INSTALLED BY CONTRACTOR. CONTRACTOR TO FURNISH AND INSTALL WITH ENDURA IN-LINE DRAIN STRAINER, MODEL 393243AW, BELOW TUB IN PLACE OF P-TRAP. STRAINER CLEANOUT SHALL BE INSTALLED IN EASILY ACCESSIBLE LOCATION. TSC TO FURNISH AND CONTRACTOR TO INSTALL SMARTWAY HAIR INTERCEPTOR IN PLACE OF A STRAINER BASKET IN BASIN OF EACH WASH TUB. COORDINATE LEFT HAND / RIGHT HAND CONFIGURATION AS SHOWN ON DRAWINGS WITH TSC. FURNISH COMPLETE WITH TEMPERATURE LIMITING MIXING VALVE.	¥"	1/2"	1½"	1½"
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER : WATTS MODEL 919-QTS, 1¼" REDUCED PRESSURE BACKFLOW PREVENTER WITH A MODEL 919-AG AIR GAP DRAIN. INSTALL UNIT IN HORIZONTAL POSITION WITH CENTERLINE A MAXIMUM OF 4'-6" AFF. REFER TO DETAIL ON DRAWINGS.	11/4"	x	x	х
HWRP	HOT WATER RECIRCULATION PUMP (FOR USE AT WATER HEATER): BELL & GOSSETT MODEL PL-30B WITH ¾" CONNECTIONS, RATED @ 1/12 HP, 120-1-60, .5 GPM AT .75 TDH. PROVIDE MAIN CUTOFF SWITCH (MANUAL) FOR PUMP TO CUT OFF POWER AS REQUIRED UNDER ASHRAE STANDARD 9075, PARAGRAPH 7.6. INSTALL & SUPPORT PUMP PER SCHEMATIC ON CONTRACT DRAWINGS AND MANUFACTURER'S RECOMMENDATIONS.	3∕4"	X	х	х
HR	HOSE REEL: REEL CRAFT MODEL GCD83050 OLP. MOUNT FROM STRUCTURE. COORDINATE EXACT LOCATION WITH LATEST TSC FIXTURE PLAN AND TSC PM.	3⁄4"	х	Х	х

FIXTURE	FIXTURE/EQUIPMENT	TURE/EQUIPMENT QUANTITY WATER WA					WAST	STE	
TAG			CW F.U. PER FIXTURE	HW F.U. PER FIXTURE	TOTAL F.U. PER FIXTURE	TOTAL F.U.	WASTE F.U. PER FIXTURE	TOTAL F.	
<u>WC</u>	WATER CLOSET	2	5.0	-	5.0	10.0	4.0	8.0	
LAV	LAVATORY	2	1.5	1.5	2.0	4.0	1.0	2.0	
<u>BS</u>	BREAK ROOM SINK	1	1.0	1.0	1.4	1.4	2.0	2.0	
EWC	ELECT. WATER COOLER	1	0.25	-	0.25	0.25	-	-	
<u>MS</u>	MOP SINK	1	2.25	2.25	3.0	3.0	2.0	2.0	
<u>FD</u>	FLOOR DRAIN	2	-	-	-	-	2.0	4.0	
WASH TUB	PET WASHING TUB	2	2.25	2.25	3.0	6.0	2.0	4.0	
<u>FS</u>	FLOOR SINK	2	-	-	-	-	4.0	4.0	
	TOTALS				•	24.65		26.0	
MAXIMUM WATE	R DEMAND AT 24.65 F.U.	= 23 GPM +	25 GPM (H.B	$.) = 1 \ 1/4"$ M	IN. WATER MA	IN SUPPLY			





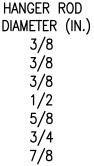


- 10. INSULATE ALL DOMESTIC HOT WATER PIPING WITH 1" THICK INSULATION.
- 11. INSULATE ALL DOMESTIC WATER PIPING BELOW SLAB AND TO 5'-0"
- 13. ALL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH SCREWED OR WELDED FITTINGS AND GASKET TYPE UNIONS AND FLANGES. ALL GAS PIPING INSTALLED OUTDOORS SHALL BE COATED WITH A CORROSION
- CARBON STEEL WEDGE ANCHORS AVAILABLE IN ANCHOR/DRILL SIZES 1/4" TO 3/4" AND LENGTHS OF 1-3/4" THROUGH 12", MEETING U.S. GOVERNMENT G.S.A. SPECIFICATIONS FF-S-325 GROUP II, TYPE 4, CLASS I, FOR FASTENING PLUMBING SYSTEMS TO CONCRETE AND PIPE
- 15. NATURAL GAS REGULATORS SHALL BE MAXITROL 325 SERIES OR EQUAL.
- A. NO OTHER MANUFACTURER SUBSTITUTIONS SHALL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER FIVE (5)
- B. CONTRACTOR SHALL PROVIDE FAUCETS AND FITTINGS THAT ARE CERTIFIED BY UNDERWRITERS LABORATORY TO MEET THE ANSI NSF
- C. FITTINGS: AMERICAN STANDARD, KOHLER, DELTA, MOEN, SYMMONS, LEONARD, CHICAGO FAUCET COMPANY, T&S BRASS, OR POWERS
- 1. EXCAVATION, BACKFILLING AND TRENCH WORK SHALL BE DONE IN
- A. PROVIDE SHORING AND CLEANING NECESSARY TO KEEP TRENCHES IN
- B. IN MOSTLY ROCK MATERIAL, TRENCHES SHALL BE EXCAVATED TO AT LEAST 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH CRUSHED LIMESTONE. GRAVEL SHALL BE SCOOPED OUT UNDER PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE
- C. IN MOSTLY EARTH OR SAND MATERIAL, THE LAST 6" OF EXCAVATION SHALL BE DONE BY HAND. TRENCH BOTTOM SHALL BE SCOOPED OUT AT PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH
- SIMULTANEOUSLY ALONG BOTH SIDES OF THE PIPE USING ROCK COVERED TO A DEPTH OF AT LEAST 12". THE REST OF THE FILL UP TO THE TOPSOIL LAYER MAY BE GRAVEL OR ROCK FREE EARTH. ACCEPTABLE SOIL MATERIALS FOR BACKFILL AND FILL SHALL BE DELETERIOUS MATTER HAVING A PLASTICITY INDEX LESS THAN 30. BACKFILL SHALL BE DONE IN LAYERS OF NOT MORE THAN 8" AND EACH LAYER SHALL BE COMPACTED. THE LAST 12" OF BACKFILL
- EXPOSED HOT AND COLD WATER TRIM IN FINISHED AREAS SHALL BE
- 3. ALL HORIZONTAL AND VERTICAL PIPING SHALL BE SUPPORTED IN RECOMMENDATIONS. SUPPORTS SHALL SECURELY HOLD PIPING, PREVENT VIBRATION, COMPENSATE FOR ALL STATIC AND OPERATIONAL CONDITIONS ELECTROLYTIC ACTION. THIS SHALL BE ACCOMPLISHED BY USING THE
- 4. WATER HAMMER ARRESTERS SHALL BE INSTALLED ON ALL HOT AND COLD WATER BRANCH LINES CONTAINING SINGLE LEVER FAUCETS, FLUSH VALVES OR QUICK CLOSING VALVES SUCH AS DISHWASHERS, CLOTHES WASHERS, AND OTHER EQUIPMENT, BETWEEN THE LAST TWO FIXTURES.
- 5. SANITARY WASTE AND VENT PIPING SHALL BE UNIFORMLY GRADED TO ELEVATIONS SHOWN. IF NO ELEVATIONS ARE GIVEN, SEWERS SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR ALL PIPING 3" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR PIPE LARGER THAN

EXTERIOR TWO-WAY	
CLEAN-OUT SCHEMATIC	,
SCALE: NONE	-

- 6. SUPPORT HORIZONTAL PIPING AS FOLLOWS: REFER TO IPC 2009 TABLE 308.5 FOR HANGER SPACING REQUIREMENTS.
  - MAXIMUM NOMINAL PIPE SIZE (IN.) 1/2 3/4 TO 1-1/4 1-1/2 TO 2 2-1/2 TO 3

8 AND UP

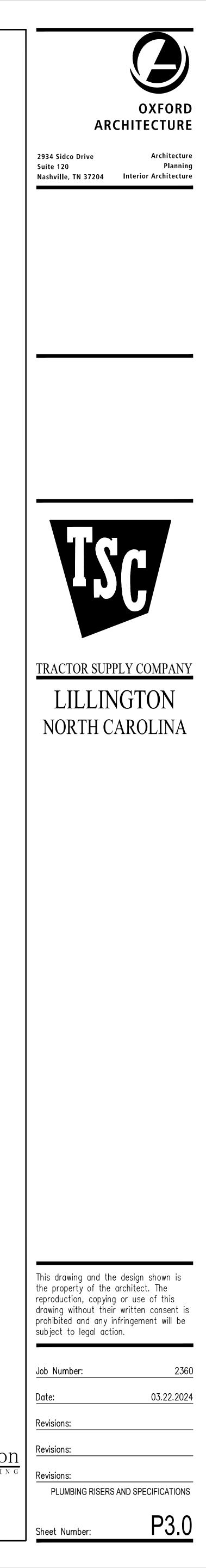


- 7. HANGERS FOR PIPING GREATER THAN 1" SHALL PASS OVER THE INSULATION. PROVIDE SADDLES FOR INSULATED PIPING.
- 8. HANGERS SHALL BE ATTACHED TO STRUCTURAL STEEL WORK BY CLAMPING OR OTHER APPROVED METHODS, EXCEPT THAT STRUCTURAL WORK SHALL NOT BE DRILLED AND PUNCHED.
- 9. INSULATION SHALL BE APPLIED WITH JOINTS TIGHTLY BUTTED. OPEN CRACKS, VOIDS AND DEPRESSIONS SHALL BE FILLED WITH HYDRAULIC SETTING CEMENT AND LAPPING MATCHING THE FINISH SHALL BE PASTED NEATLY OVER JOINTS.
- 10. FITTINGS AND VALVES SHALL BE INSULATED WITH THE SAME TYPE INSULATION AS THE PIPING OR WITH HYDRAULIC SETTING CEMENT, BUILT UP TO THE SAME THICKNESS AS LINES. COVER SHALL BE SAME AS ADJACENT PIPING OR PVC PREFORMED JACKET.
- 11. PROVIDE AND INSTALL A CUT-OFF VALVE, UNION AND FULL SIZE DIRT LEG AT CONNECTION TO EACH GAS-FIRED PIECE OF EQUIPMENT.
- 12. SEAL ALL PENETRATIONS OF RATED PARTITIONS WITH U.L. RATED FIRE BARRIER MATERIAL.
- 13. AIR ADMITTANCE VALVES SHALL NOT BE ALLOWED ON SANITARY WASTE AND VENT SYSTEMS.
- 14. THE SYSTEM TESTS DESCRIBED HEREIN ARE MINIMUM REQUIREMENTS. HOWEVER, ADDITIONAL TESTS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION SHALL ALSO BE PERFORMED.
- 15. DOMESTIC WATER PIPING SHALL BE TESTED AT 125 PSI. IN ADDITION, PIPING SHALL BE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS.
- 16. THE DOMESTIC WATER SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY BY OPENING OUTLETS AND FLOWING WATER UNTIL IT RUNS CLEAR. AFTER PIPE CLEANING IS COMPLETED, THE STRAINERS SHALL BE REMOVED, CLEANED, AND REPLACED. THEN THE ENTIRE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.
- 17. THE SANITARY WASTE SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY WITH FLOWING WATER UNTIL IT RUNS CLEAR.
- 18. THE ENTIRE SANITARY WASTE SYSTEM SHALL BE TESTED AGAINST A HEAD PRESSURE OF 10' TSH FOR 8 HOURS WITHOUT LEAKAGE.
- 19. GAS PIPING SHALL BE LEAK TESTED AT 30 PSI FOR 24 HOURS. 20. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A LETTER STATING THAT THE ABOVE MENTIONED TESTING, CLEANING AND DISINFECTING WAS COMPLETED, AND ALL LEAKS (IF ANY) WERE REPAIRED AND SYSTEM CLEANED AND RETESTED. THE LETTER SHALL BE SIGNED AS WITNESSED BY THE LOCAL AUTHORITY HAVING JURISDICTION, THE GENERAL
- SUPERINTENDENT OR THE DESIGN ENGINEER. 21. FIXTURES SHALL BE MOUNTED RIGID TO WALLS AND FLOOR.
- 22. PROVIDE HEAT TRAPS ON INLET AND OUTLET OF ALL WATER HEATING STORAGE TANKS.
- 23. DRAIN MANAGEMENT PROGRAM:

WILL APPLY.

- A. ALL DRAINS, VENTS, ETC. MUST BE TAPED OVER DURING CONSTRUCTION TO PREVENT DEBRIS FROM INFILTRATING THE LINES.
- B. GC/DEVELOPER IS REQUIRED TO SUBMIT PHOTOS OF TAPED DRAINS.
- C. GC WILL BE FINED \$150 PER DAY IF PHOTOS ARE NOT SUBMITTED BY THE BEGINNING OF WEEK TWO OF THE PROJECT OR IF ANY DRAIN IS DISCOVERED TO BE UNCOVERED DURING A PM SITE VISIT. FINES WILL TERMINATE ON THE DAY THAT PHOTOGRAPHIC EVIDENCE OF COMPLETION IS SUBMITTED TO AND VERIFIED BY THE TRACTOR SUPPLY PM.
- ). GC/DEVELOPER WILL BE REQUIRED TO JET AND CAMERA ANY LINE IN WHICH THE DRAIN IS DISCOVERED TO BE UNCOVERED. RECEIPTS AND VIDEO MUST BE SUBMITTED TO TRACTOR SUPPLY FOR VERIFICATION.
- E. DRAIN MANAGEMENT SIGNAGE WILL BE PROVIDED BY TRACTOR SUPPLY AND INSTALLED BY THE GC/DEVELOPER.
- F. IF SIGNAGE IS NOT INSTALLED AT PUNCH, CLEANING/CAMERA POLICY
- G. GC WILL BE FINED \$150 PER DAY IF SIGNAGE IS NOT INSTALLED AT PUNCH. FINES WILL TERMINATE ON THE DAY THAT PHOTOGRAPHIC EVIDENCE OF COMPLETION IS SUBMITTED TO AND VERIFIED BY TRACTOR SUPPLY PM.





SPRINKLER INTENT INFORMATION								
	SALES AREA	OFFICE AREA AND PET WASH	STOCKROOM AREA					
ZONE CLASSIFICATION **	ORDINARY HAZARD GROUP 2	LIGHT HAZARD	MISCELLANEOUS STORAGE <12', CLASS III COMMODITIES * ORDINARY HAZARD GROUP 2					
DENSITY	.20 GPM/ SQ. FT.	.10 GPM/ SQ. FT.	.20 GPM/ SQ. FT.					
COVERAGE AREA	1500 SQ. FT.	1500 SQ. FT.	1500 SQ. FT.					
COVERAGE PER SPRINKLER	130 SQ. FT.	225 SQ. FT.	130 SQ. FT.					
DISCHARGE TEMPERATURE	165 <b>°</b> F	165 <b>°</b> F	165 <b>°</b> F					
MAXIMUM HEAD SPACING	15 FT.	15 FT.	15 FT.					
HOSE STREAM ALLOWANCE	250 GPM	100 GPM	250 GPM					

\* COMMODITY CLASS REDUCED TO CLASS III BASED ON STORAGE OF LESS THAN 10 PALLET OF CLASS IV COMMODITIES.

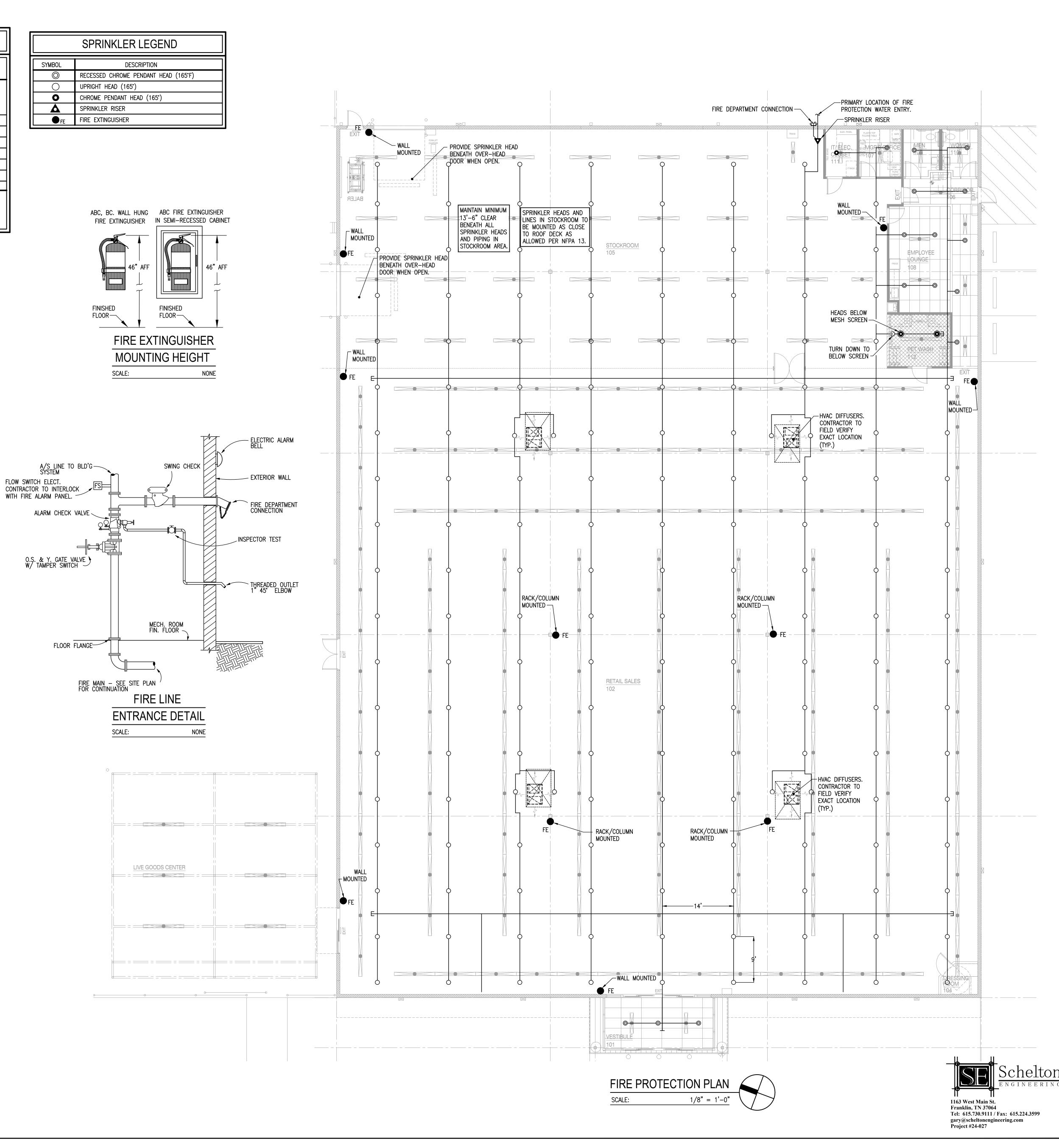
\*\* ZONE CLASSIFICATION SUBJECT TO AUTHORITY HAVING JURISDICTION.

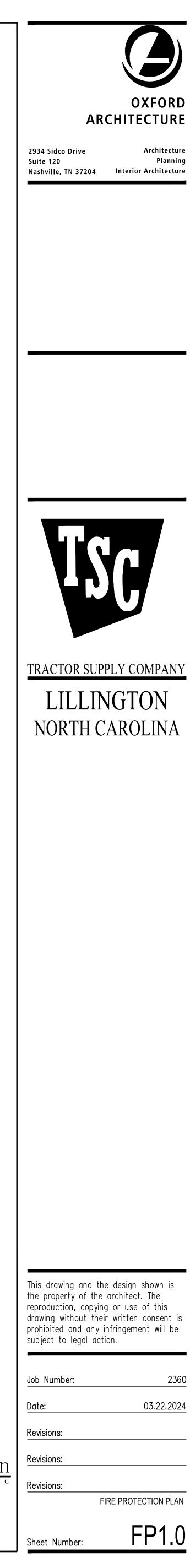
### **GENERAL NOTES**

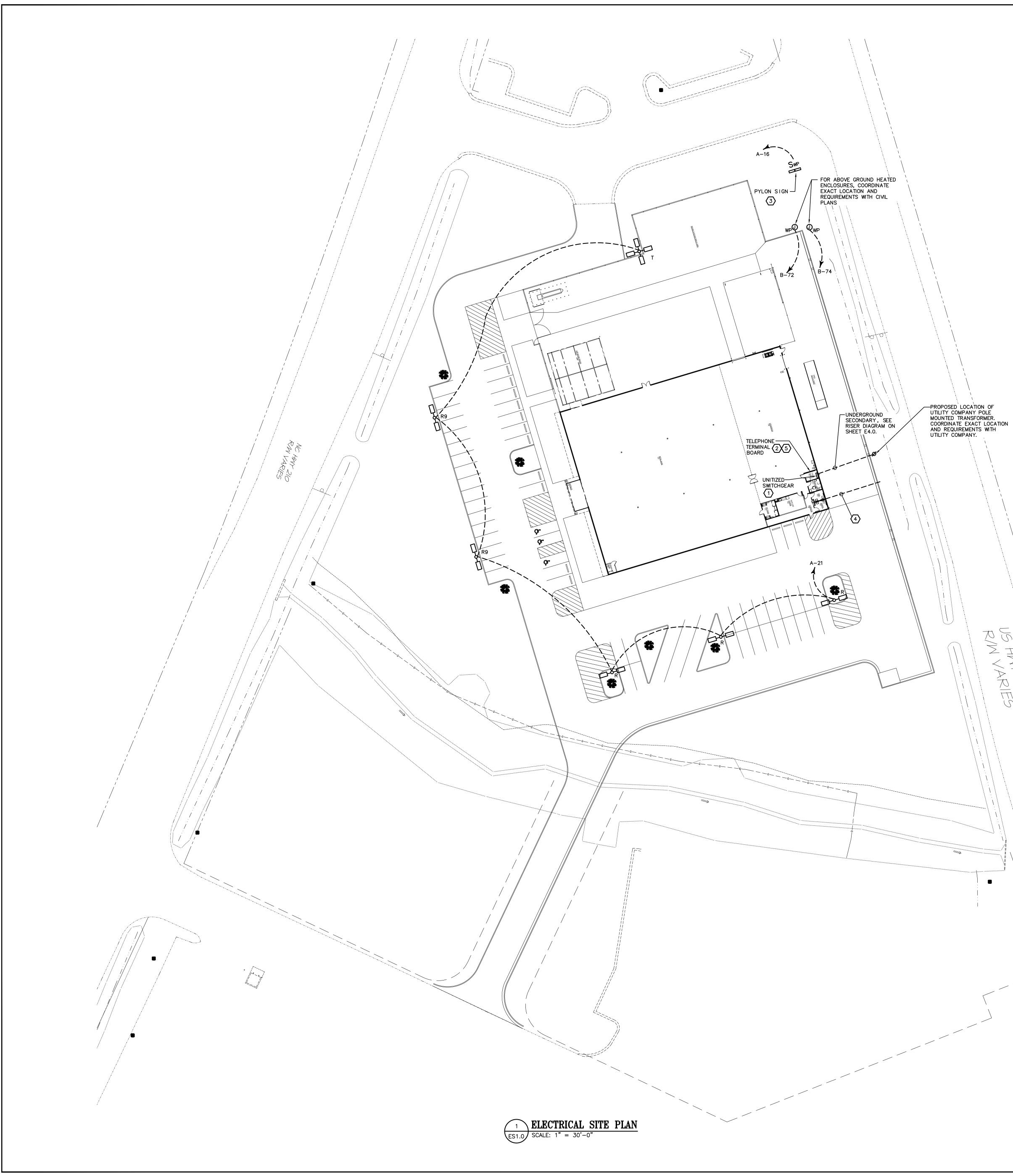
- 1. TSC TO FURNISH AND CONTRACTOR TO INSTALL MINIMUM OF 11 PORTABLE FIRE EXTINGUISHERS. LOCATIONS SHALL BE DETERMINED BY STORE FIXTURES AND SHELVING TO MAINTAIN A MAXIMUM TRAVEL DISTANCE OF 75'-0".
- 2. SPRINKLER LINES, MAINS, AND BRANCHES SHALL BE AS HIGH AS POSSIBLE IN STOCKROOM.
- 3. TSC IS TO APPROVE ALL SPRINKLER DRAWINGS PRIOR TO INSTALLATION.
- 4. FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING FORMAL "DESIGN INTENT" DRAWINGS INCLUDING FULL HYDRAULIC CALCULATIONS, SEALED BY A PROFESSIONAL ENGINEER MEETING ALL STATE AND LOCAL CODE REQUIREMENTS.
- 5. FIRE EXTINGUISHERS SHALL BE UL & ULC RATED AT 2A:10B:C OR BETTER.
- 6. ACTUAL SPRINKLER HEAD LAYOUT MAY VARY BASED ON ROOF SLOPE AND ORIENTATION. COORDINATE WITH GARDEN CENTER AND FEED STORAGE BUILDING MANUFACTURER PRIOR TO FINAL SPRINKLER DRAWING LAYOUT.
- 7. CONTRACTOR TO RAISE SPRINKLER LINES, MAINS, AND BRANCHES AS HIGH AS POSSIBLE IN ALL EXPOSED TO DECK LOCATIONS.

## FIRE PROTECTION SPECIFICATIONS

- 1. THE SPRINKLER SYSTEM SHALL CONFORM TO NATIONAL FIRE PROTECTION ASSOCIATION 13 AND ALL APPLICABLE REGULATORY REQUIREMENTS AND BUILDING CODES AS INTERPRETED BY THE AUTHORITY HAVING JURISDICTION IN THE LOCALE OF THE PROJECT. WHERE CONFLICTS EXIST BETWEEN SUCH REGULATORY OR CODE REQUIREMENTS, SUCH CONFLICT SHALL BE IDENTIFIED FOR THE REVIEW OF THE ARCHITECT AND ENGINEER.
- 2. CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AND HYDRAULICALLY CALCULATED SPRINKLER SYSTEM AS INDICATED ON FLOOR PLANS. MINIMUM SCOPE OF WORK SHALL INCLUDE PROVIDING NEW PENDANT SPRINKLER HEADS AND/OR RELOCATING EXISTING SPRINKLER HEADS AS REQUIRED IN THE VESTIBULE, SALES AREA, TOILETS, OFFICES, AND BREAKROOM. RELOCATE EXISTING UPRIGHT SPRINKLER HEADS OR PROVIDE NEW SPRINKLER HEADS AS REQUIRED IN THE STOCK ROOM. PROVIDE BRANCH PIPING FOR ALL NEW SPRINKLER HEADS AND ROUTE PIPING TO NEAREST BRANCH MAIN OR CROSS MAIN. PROVIDE SUPPORTS AS REQUIRED BY NFPA 13. FIELD VERIFY EXISTING CONDITIONS.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER FINAL PAYMENT IS APPROVED.
- 4. SUBMIT FOR APPROVAL THE NUMBER OF SHOP DRAWINGS AND MANUFACTURERS LITERATURE ON ALL MATERIALS AS REQUIRED TO THE ARCHITECT OR OWNER'S REPRESENTATIVE.
- 5. SUBMIT DRAWINGS AND CALCULATIONS TO THE DEPARTMENT OF FIRE PREVENTION OF THE STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
- 6. CONTRACTOR SHALL VISIT THE SITE AS WELL AS ADJACENT SPACES AND FULLY INFORM HIMSELF CONCERNING ALL CONDITIONS AFFECTING SCOPE OF WORK. VERIFY PIPE SIZES, LOCATION OF EXISTING COMPONENTS, AND SUITABILITY OF THE EXISTING SYSTEMS TO MEET THE HYDRAULIC CALCULATIONS PRIOR TO BID.
- 7. DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE LOCATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS AND COORDINATE WITH OTHER TRADES FOR PIPE ROUTING AND EQUIPMENT PLACEMENT. INSTALL ALL WORK WITHOUT CONFLICT WITH OTHER TRADES AND MAKE MINOR ALTERATIONS AS REQUIRED WITHOUT ADDITIONAL COST TO OWNER.
- 8. THE SPRINKLER SYSTEM SHALL BE INSTALLED BY A FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR WITH A VALID CERTIFICATE OF REGISTRATION ISSUED BY THE AUTHORITY HAVING JURISDICTION.
- 9. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL VOLTAGES, ELECTRICAL LOADS, ETC. OF ELECTRICALLY OPERATED EQUIPMENT PRIOR TO PURCHASING EQUIPMENT. ALL EQUIPMENT SHALL BE U.L. AND NEMA APPROVED.
- 10. MAINTAIN A MINIMUM CLEARANCE OF 3'-0" IN FRONT OF ALL ELECTRICAL PANELS AND 1'-0" ON EITHER SIDE OF ELECTRICAL PANEL TO STRUCTURE.
- 11. ALL HORIZONTAL AND VERTICAL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH NFPA 13 AND STATE AND LOCAL REQUIREMENTS. SUPPORTS HALL SECURELY HOLD PIPING, PREVENT VIBRATION, COMPENSATE FOR STATIC AND OPERATIONAL CONDITIONS OF THE VARIOUS SYSTEMS, AND SHALL NOT BE SUBJECT TO ELECTROLYTIC ACTION.
- 12. ALL SPRINKLER SYSTEM MATERIALS INSTALLED SHALL BE U.L. LISTED AND FACTORY MUTUAL APPROVED FOR FIRE PROTECTION USE.
- 13. CONTROL VALVES SHALL BE SLOW CLOSING INDICATING VALVES LISTED FOR FIRE PROTECTION USE. EACH CONTROL SHALL HAVE A SUPERVISORY SWITCH.
- 14. SPRINKLER PIPING PENETRATING ONE-HOUR OR GREATER RATED FIRE WALLS SHALL BE SLEEVED AND CAULKED TO MEET U.L. LISTED ASSEMBLY FOR RATING OF WALL.
- 15. CONTRACTOR SHALL FLUSH WATER SYSTEM AFTER INSTALLATION PER REQUIREMENTS OF NFPA 24.
- 16. SPRINKLER HEADS SHALL BE TYCO, RELIABLE, CENTRAL, VIKING OR EQUAL.
- 17. OFFICE AREA AND SIMILAR OCCUPANCIES SHALL HAVE DENSITY OF ADJACENT AREAS IF NOT SEPARATED BY WALLS. IF SEPARATED BY WALLS, THE AREA SHALL BE HYDRAULICALLY BALANCED TO PRODUCE 0.1 G.P.M. PER SQUARE FOOT DENSITY OVER THE MOST REMOTE 1,500 SQ. FT., HEAD COVERAGE 225 SQ. FT./HEAD MAXIMUM, USING 165°F HEADS.
- 18. SALES AREA, VESTIBULE, AND SIMILAR OCCUPANCIES SHALL SHALL BE HYDRAULICALLY BALANCED TO PRODUCE 0.2 GPM PER SQUARE FOOT DENSITY OVER THE MOST REMOTE 1,500 SQ. FT., HEAD COVERAGE 130 SQ. FT./HEAD MAXIMUM,
- USING 165°F HEADS.
- 19. RECEIVING AREA AND STOCKROOM SHALL BE HYDRAULICALLY BALANCED TO PRODUCE .20 GPM PER SQUARE FOOT DENSITY OVER THE MOST REMOTE 1,500 SQ. FT., HEAD COVERAGE 130 FT./HEAD MAXIMUM, USING 165°F HEADS.
   20. BUILDING AWNING AND CANOPY AREAS SHALL BE HYDRAULICALLY BALANCED TO PRODUCE 0.2 G.P.M. PER SQUARE FOOT
- 20. BUILDING AWNING AND CANOPY AREAS SHALL BE HYDRAULICALLY BALANCED TO PRODUCE 0.2 G.P.M. PER SQUARE FOO DENSITY OVER THE MOST REMOTE 1,500 SQ. FT., HEAD COVERAGE 80 SQ. FT./HEAD MAXIMUM, USING 200°F HEADS.
  21. ALL SPRINKLER HEADS IN AREAS WITH FINISHED CEILING SHALL BE CHROME-PLATED RECESSED PENDANT TYPE WITH
- TEMPERATURE RATING AS CONDITIONS DICTATE. ASSOCIATED SPRINKLER PIPING SHALL BE ENTIRELY CONCEALED.
- 22. ALL SPRINKLER HEADS IN AREAS WITHOUT FINISHED CEILINGS SHALL BE BRASS UPRIGHT HEADS WITH TEMPERATURE RATING AS CONDITIONS DICTATE. ASSOCIATED SPRINKLER PIPING SHALL BE RUN EXPOSED. DO NOT PAINT HEADS.
- 23. THE SPRINKLER CONTRACTOR SHALL COORDINATE THE LOCATION OF PIPING AND HEADS WITH LIGHT FIXTURES, DIFFUSERS, DUCTWORK, PLUMBING LINES, ETC. AND MAKE MINOR ADJUSTMENTS IN THE SPRINKLER LAYOUT WHERE REQUIRED OR DEEMED NECESSARY BY THE ARCHITECT.
- 24. MODIFICATIONS TO THE SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 13.







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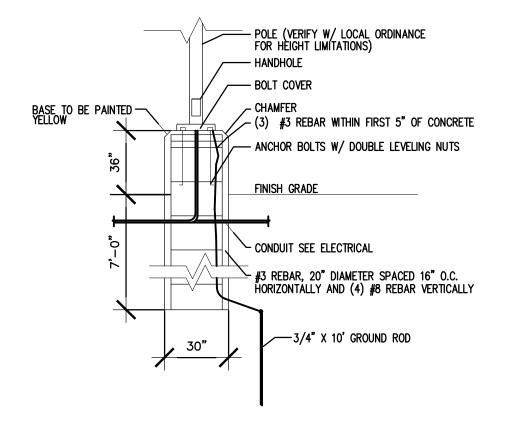
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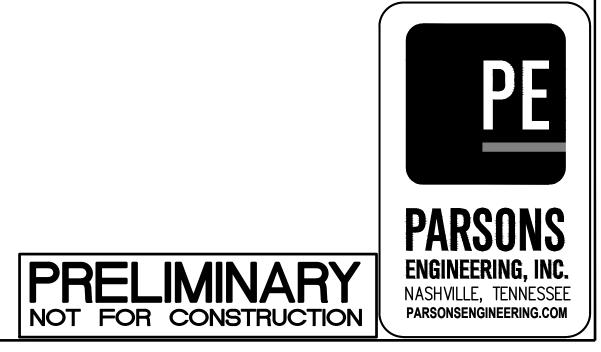
1. COORDINATE INSTALLATION OF NEW UNDERGROUND SERVICE WITH LOCAL ELECTRIC UTILITY COMPANY. PROVIDE TRENCHING, CONDUIT, CONDUCTORS, METER BASE, CT ENCLOSURE, CONCRETE PAD, AND OTHER ITEMS AS REQUIRED. INSTALL SERVICE IN ACCORDANCE WITH CURRENT UTILITY COMPANY REQUIREMENTS. SEE RISER DIAGRAM ON SHEET E4.0.

2. COORDINATE INSTALLATION OF TELEPHONE SERVICE CONDUITS WITH LOCAL TELEPHONE COMPANY. INSTALL (2) 2" CONDUITS FROM TELEPHONE SERVICE POINT TO TELEPHONE TERMINAL BOARD. 3. VERIFY LOCATION OF PYLON SIGN WITH OWNER. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH VENDOR. PROVIDE CIRCUIT PER VENDOR'S RECOMMENDATIONS. PROVIDE DISCONNECTING MEANS IF NOT PROVIDED WITH SIGN AND LOCATE PER VENDOR'S RECOMMENDATIONS. 4. PROVIDE A 1-1/2" CONDUIT FROM IRRIGATION CONTROLLER TO OUTSIDE OF CURBLINE. COORDINATE EXACT LOCATION WITH GC.

5. CONTRACTOR SHALL INSTALL 1"C WITH PULLSTRING FROM THE TELEPHONE TERMINAL BOARD TO REMOTE PIV, BACKFLOW, OR WATER VALVES THAT THE LOCAL AHJ REQUIRES TO BE MONITORED BY THE FIRE ALARM SYSTEM.

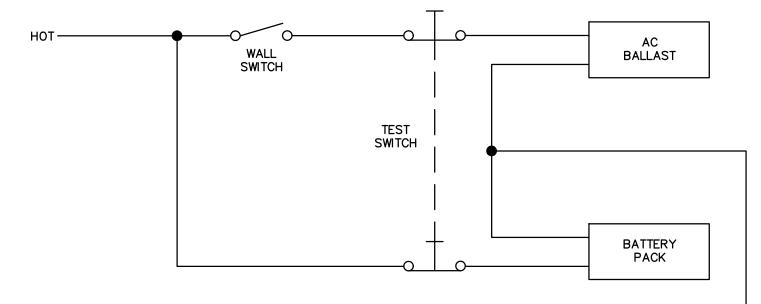


POLE BASE DETAIL NO SCALE POLE BASE DETAIL PROVIDED FOR SCOPE AND BID PURPOSES. CONTRACTOR SHALL SUBMIT A POLE BASE DESIGN SUITABLE FOR LOCAL CONDITIONS AND APPROVED BY A STRUCTURAL ENGINEER.



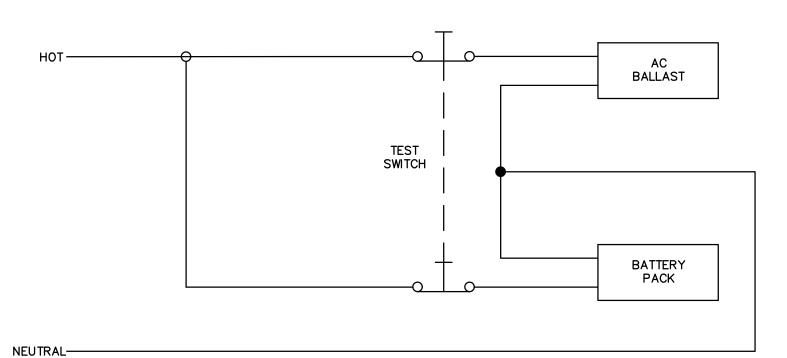
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		LIGHTING FIX	TURE	SC	HEDULE		
		EDULE — ELECTRICAL CONTRACTOR SHALL PURCHASE LIGHTING VOELKER (tractorsupply@villalighting.com) AT 314—633—0554 FC		HROUG	SH TRACTOR SUPPLY CO	MPANY'S NATION	AL AGREEMENT WITH VILLA LIGHT
TYPE	MANUFACTURER	CATALOG NUMBER	VOLT	L   QTY	_AMPS   TYPE	WATTAGE	MOUNTING
A	LITHONIA LIGHTING	CLX-L96-10000LM-SEF-FDL-MV0LT-GZ10-40K-80CRI- PLR2ANG-WH	277		10000 LUMEN LED 4000K	70.8 WATTS	SURFACE MOUNTED
AE	LITHONIA LIGHTING	CLX-L96-10000LM-SEF-FDL-MV0LT-GZ10-40K-80CRI- PS1050-SPD-PLR2BELBNG-WH	277		10000 LUMEN LED 4000K	70.8 WATTS	SURFACE MOUNTED
A1	LITHONIA LIGHTING	CLX-L48-5000LM-SEF-FDL-MVOLT-GZ10-40K-80CRI- PLR2ANG-WH	277		5000 LUMEN LED 4000K	35.4 WATTS	SURFACE MOUNTED
A1E	LITHONIA LIGHTING	CLX-L48-5000LM-SEF-FDL-MV0LT-GZ10-40K-80CRI- PS1050-SPD-PLR2BELBNG-WH	277		5000 LUMEN LED 4000K	35.4 WATTS	SURFACE MOUNTED
В	LITHONIA LIGHTING	CLX-L96-10000LM-SEF-FDL-MV0LT-GZ10-40K-80CRI- PLR2ANG-WH	277		10000 LUMEN LED 4000K	70.8 WATTS	SUSPENDED MOUNTED
BE	LITHONIA LIGHTING	CLX-L96-10000LM-SEF-FDL-MV0LT-GZ10-40K-80CRI- PS1050-SPD-PLR2BELBNG-WH	277		10000 LUMEN LED 4000K	70.8 WATTS	SUSPENDED MOUNTED
B1	LITHONIA LIGHTING	CLX-L48-5000LM-SEF-FDL-MVOLT-GZ10-40K-80CRI- PLR2ANG-WH	277		5000 LUMEN LED 4000K	35.4 WATTS	SUSPENDED MOUNTED
B1E	LITHONIA LIGHTING	CLX-L48-5000LM-SEF-FDL-MV0LT-GZ10-40K-80CRI- PS1050-SPD-PLR2BELBNG-WH	277		5000 LUMEN LED 4000K	35.4 WATTS	SUSPENDED MOUNTED
G	MAXLITE	HLRS-45-U-L-P	UNV	1	5,760 LUMEN LED 5000K	45.0 WATTS	PENDANT
К	LITHONIA LIGHTING	DSXW1-LED-10C-1000-50K-T3M-MVOLT-DDBXD	UNV	1	3,970 LUMEN LED 5000K	39.0 WATTS	SURFACE
K1	HI-LITE	H-15118-97/HL-AHD-27"-97/21/LED2/40/D/BCM-M	277	1	18W LED 4000K	18.0 WATTS	WALL MOUNT
R	LITHONIA LIGHTING	RSX1-LED-P3-50K-R3-MVOLT-SPA	UNV	2	14,000 LUMEN LED 5000K	218 WATTS	TWO HEADS AT 180 DEGREES POLE MOUNTED ON 22' BRONZI POLE
R9	LITHONIA LIGHTING	RSX1-LED-P3-50K-R3-MVOLT-SPA	UNV	2	14,000 LUMEN LED 5000K	218 WATTS	TWO HEADS AT 180 DEGREES WITH ROTATED OPTICS, POLE MOUNTED ON 22' BRONZE POLE
T	LITHONIA LIGHTING	RSX1-LED-P3-50K-R3-MVOLT-SPA	UNV	4	14,000 LUMEN LED 5000K	436 WATTS	FOUR HEADS AT 90 DEGREES POLE MOUNTED ON 22' BRONZE POLE
x	EXITRONIX LIGHTING	VEX-U-BP-WB-WH-R6	UNV	-	INCL.	0.8 WATTS	SURFACE
XR	EXITRONIX LIGHTING	VEX-U-BP-WB-WH-R6 / MLED2-G-WP	UNV	-	INCL.	3.8 WATTS	SURFACE
XW	EXITRONIX LIGHTING	VEX-WPC-1-R-W-IH-R-2RL1-WP	UNV	-	INCL.	3.6 WATTS	SURFACE
Y	METALUX	8VT2-LD5-9-DR-UNV-L850-CD1-WL-U	UNV		9000 LUMEN LED 5000K	66.0 WATTS	SUSPENDED MOUNTED
YE	METALUX	8VT2-LD5-9-DR-UNV-EL10W-L850-CD1-WL-U	UNV		9000 LUMEN LED 5000K	66.0 WATTS	SUSPENDED MOUNTED



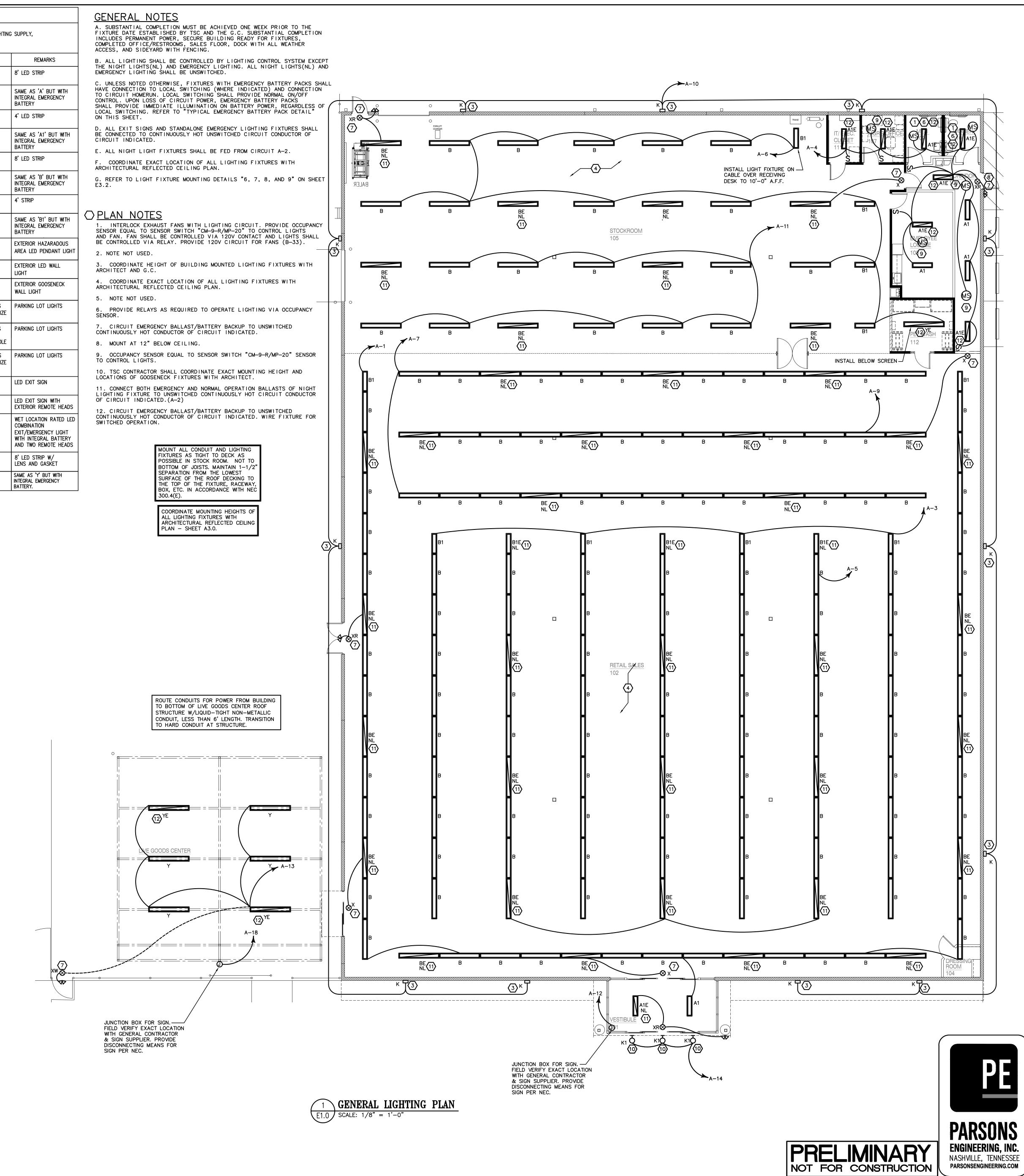
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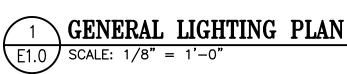
SWITCHED



UNSWITCHED

**2** TYPICAL BATTERY PACK WIRING DIAGRAM E1.0 NO SCALE





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Revisions: Revisions: GENERAL LIG	HTING PLAN
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#### ○ PLAN NOTES:

1. INTERLOCK EXHAUST FANS WITH LIGHTING CIRCUIT. PROVIDE OCCUPANCY SENSOR EQUAL TO SENSOR SWITCH "CM-9-R/MP-20" TO CONTROL LIGHTS AND FAN. FAN SHALL BE CONTROLLED VIA 120V CONTACT AND LIGHTS SHALL BE CONTROLLED VIA RELAY. PROVIDE 120V CIRCUIT FOR FANS (B-33).

2. COORDINATE CONDUIT ROUGH-IN FOR TAMPER AND FLOW CONNECTIONS AS WELL AS ALL OTHER FIRE ALARM DEVICES WITH FIRE ALARM CONTRACTOR. 3. FURNISH AND INSTALL POWER POLES FROM SALES COUNTERTOPS TO CEILING STRUCTURE. SPECIFY RELOC

#PP2-L186-HW-B-BLACK ÖR EQUIVALENT. REFER TO OFFICIAL TSC FIXTURE PLAN LAYOUT SENT FROM TSC TO GC FOR EXACT LOCATIONS. ATTACH POWER POLE TOP TO UNI-STRUT AT BAR JOIST WITH A "U" CLAMP TO THE TOP OF THE POWER POLE AT THE BAR JOIST. LOOSEN THE "U" BOLT USED TO TIGHTEN THE CONNECTION TO THE POWER POLE SO THAT THE POWER POLE IS ABLE TO REMAIN IN POSITION AND THE ROOF CAN FLEX DURING EXPANSION AND CONTRACTION WITHOUT DAMAGING THE POWER POLE. REFER TO DETAILS ON SHEET E3.1.

4. RECEPTACLE FOR "STORE OPEN" AND "CUB CADET" SIGN MOUNTED IN CEILING WITHIN 6" OF VERTICAL STOREFRONT GLASS. 5. JUNCTION BOX FURNISHED AND INSTALLED FOR THE FIRE PROTECTION SYSTEM ELECTRIC GONG. ELECTRICAL CONTRACTOR TO INSTALL AND WIRE FIRE GONG, COORDINATE WITH FIRE SUPPRESSION CONTRACTOR FOR VOLTAGE.

PROVIDE LOW VOLTAGE TRANSFORMER AS REQUIRED. 6. JUNCTION BOX FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR FOR POWER DOORS.

ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AN EDWARDS 55-4G5 DOOR BELL AND AN EDWARDS 592 TRANSFORMER AT TWO LOCATIONS SHOWN. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AN EDWARDS 250 PUSHBUTTON TO CONTROL BOTH DOOR BELLS. PUSHBUTTON SHALL BE INSTALLED IN A WEATHERPROOF ENCLOSURE. TEST TO ASSURE WORKING SYSTEM. MOUNT TRANSFORMER & BELL AT 14'-0" AFF. 8. REFER TO SHEET E4.0 MATRIX AND E3.1 COUNTER DETAILS FOR RECEPTACLE AND DATA OUTLET LOCATIONS AT

REGISTER COUNTERS (2) RED RECEPTACLES PER CIRCUIT MAXIMUM. (COORDINATE COUNTER LOCATIONS WITH FIXTURE DRAWINGS AND G.C.) THE OUTLET BOXES WILL BE PRE-INSTALLED IN CASEWORK. 9. (3) DUPLEX RECEPTACLES FURNISHED AND INSTALLED FOR SECURITY.

10. ALL ROOFTOP EQUIPMENT CONNECTIONS SHALL BE MADE THROUGH THE UNIT ROOF CURB. ROOF PENETRATIONS ARE NOT ACCEPTABLE. ALL RTU'S AND AC UNITS SHALL HAVE A 3/4" CONDUIT OR SEAL TIGHT INSTALLED FOR LOW VOLTAGE CABLE.

11. EDWARDS 55-4GB DOOR BELL @ CASH REGISTER & CONNECT TO SYSTEM AS NECESSARY. COORDINATE WITH G.C. FOR EXACT LOCATION OF BELL. 12. ALARM CO. SHALL PROVIDE & INSTALL NECESSARY HOOK-UPS TO FACP. ALARM CO. SHALL ALSO PROVIDE COMPLETE FIRE ALARM SYSTEM AS REQUIRED BY AHJ, ADA, NATIONAL AND LOCAL CODES.

13. VERIFY A/C UNIT MANUFACTURER AND LOAD REQUIREMENTS. FURNISH AND INSTALL BRANCH CIRCUIT RATED FOR UNIT LOAD. 14. REFER TO CASEWORK ELEVATIONS AND DETAILS ON PLAN E3.1 FOR ADDITIONAL INFORMATION ON REGISTER AND DISPLAY COUNTERS.

15. ALL CONDUIT TO RUN PARALLEL OR PERPENDICULAR TO STRUCTURE. HORIZONTAL CONDUIT SHALL BE NO LOWER THAN 15'-6". NO HORIZONTAL CONDUITS ALLOWED TO BE MOUNTED ON THE SALES WALLS. 16. COORDINATE WITH SECURITY VENDOR FOR THEIR INSTALLATION OF FIRE ALARM AND SECURITY SYSTEMS PANELS. PROVIDE TWO JUNCTION BOXES FOR HARDWIRED POWER CONNECTION.

17. PROVIDE RED RECEPTACLE IN POWER POLE. 18. COORDINATE ALL REQUIREMENTS OF BALER WITH SUPPLIER. COORDINATE EXACT LOCATION WITH TSC FINAL FIXTURE PLAN. E.C. SHALL MAKE FINAL CONNECTION TO BALER. LOCATE DISCONNECT WITHIN TEN FEET OF BALER AND SUCH THAT IT DOES NOT INTERFERE WITH THE FINAL FIXTURE PLAN.

19. PROVIDE OCCUPANCY SENSOR EQUAL TO SENSOR SWITCH "CM-9-R/MP-20" TO CONTROL LIGHTS. SENSOR SHALL BE CENTERED IN ROOM AS MUCH AS POSSIBLE. 20. IF GFI OUTLETS ARE NOT INSTALLED, OUTLETS SHALL BE CIRCUITED TO A GFI BREAKER. LABEL OUTLETS THAT ARE ON THE GFI BREAKER.

21. PROVIDE TYPE "G" LIGHTING FIXTURE AT CANOPY CONTROLLED BY AN EXPLOSION PROOF SWITCH. CONNECT LIGHT TO PROPANE DISPENSING CIRCUIT. SEE DETAIL 2 ON SHEET E3.2. ALL CONDUIT SHALL BE RGS. 22. ELECTRICAL CONDUITS AND BOXES IN THE VICINITY OF THE BANNERS ON THE OUTSIDE FACE OF THE EXTERIOR WALL SHALL BE INSTALLED ABOVE THE LOWER MEMBER OF THE "A" FRAME TO AVOID INTERFERENCE WITH THE BANNERS. COORDINATE EXACT LOCATION WITH FINAL FIXTURE PLAN AND TSC PROJECT MANAGER.

23. J-BOX FOR POWER TO THE SERIES 800 POWER SUPPLY MOUNTED ABOVE THE CEILING IN LINE WITH THE HINGE SIDE OF THE DOOR. PROVIDE A 1/2" CONDUIT FROM THE POWER SUPPLY TO THE ELECTRIC POWER TRANSFER DEVICE (PT-5) OF THE DOOR FRAME, CONCEALED MORTISE MOUNT. PROVIDE AND PULL TWO #18 AWG WIRE FROM THE POWER SUPPLY TO THE POWER TRANSFER DEVICE AND INTO THE DOOR. CONTRACTOR TO COMPLETE WIRING AND CONNECTION OF THE DELAYED RIM EXIT DEVICE AFTER NEW DOOR AND RIM EXIT HARDWARE IS INSTALLED. COORDINATE ALL REQUIREMENTS WITH SUPPLIER/INSTALLER. SEE DETAIL 12/E3.2.

24. PROVIDE A 1-1/2" CONDUIT FROM IRRIGATION CONTROLLER TO OUTSIDE OF CURBLINE. COORDINATE EXACT LOCATION WITH GC. 25. 120 VOLT COMPRESSOR OUTLET LOCATED IN THE ASSEMBLY AREA. VERIFY FINAL LOCATION WITH THE TSC FINAL

FIXTURE PLAN. 26. LOCATE WP/GFI OUTLET 14" AS MEASURED FROM INSIDE CORNER OF WALL. EXPOSED CONDUIT FOR ELECTRICAL OUTLET SHALL BE ROUTED WITHIN 18" OF INTERIOR BUILDING CORNER.

28. BULK PROPANE NOTE: LOCATION FOR CONDUIT PENETRATION THROUGH GRADE FROM BUILDING TO PROPANE GAS DISPENSING SYSTEM. ALL CONDUIT FOR BULK PROPANE SHALL BE RGS. VERIFY WITH TSC PROJECT MANAGER IF SCP CAN NOT BE FOLLOWED. REFERENCE DETAILS 2,3,4,5/E3.2.

29. BULK PROPANE NOTE: BOLLARD MOUNTED PROPANE DISPENSING SYSTEM EMERGENCY STOP PUSHBUTTON IN WEATHER PROOF JUNCTION BOX. MOUNT EMERGENCY STOP BUTTON AT 4'-6" AFG. CONTRACTOR SHALL PROVIDE SIGN AT PUSHBUTTON TO IDENTIFY AS "PROPANE - CONTAINER LIQUID VALVE EMERGENCY SHUTOFF". COORDINATE EXACT MOUNTING LOCATION OF PUSHBUTTON WITH ARCHITECT. REFERENCE DETAIL 1/E3.2 FOR CONTROL DIAGRAM. PUSHBUTTON SHALL BE INSTALLED AND LABELED PER NFPA 58 6.13.4 AND 6.13.5. 30. VERIFY EXACT LOCATION OF RECEPTACLE WITH FINAL FIXTURE PLAN. RECEPTACLES SHOWN AT +100" SHALL BE

INSTALLED AT 100" ABOVE FINISHED FLOOR TO BOTTOM OF BOX. 31. CONTRACTOR SHALL ROUTE CONDUIT FOR ELECTRICAL DEVICES LOCATED BELOW 96" AFF RECESSED IN THE WALL. CONDUIT MAY BE ROUTED EXPOSED ABOVE 96"AFF. PAINT TO MATCH WALL.

32. SPRING AND JAMB MOUNTING PADS TO BE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR. FACTORY WIRED OPERATORS AND CONTROLS FOR OVERHEAD DOOR TO BE FURNISHED AND INSTALLED BY DH PACE (LOW-VOLTAGE ONLY). ALL CONDUIT RACEWAYS, DISCONNECTS, ELECTRICAL BOXES, WIRING, AND CONNECTIONS ARE BY ELECTRICAL CONTRACTOR. DH PACE WILL LANS AND TERMINATE WIRING FOR LOW-VOLTAGE EQUIPMENT.

33. QUADRAPLEX RECEPTACLE WALL MOUNTED AT 100" ABOVE FINISHED FLOOR FOR CORDLESS PHONE REPEATER. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH TSC CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.

27. EXTERIOR OUTLET TO BE FLUSH MOUNTED IN WALL AT 36" AFF.

34. PROVIDE AND INSTALL (1) EXPLOSION PROOF JUNCTION BOX AT THE DISPENSING UNIT. JUNCTION BOX TO BE. COOPER CROUSE HINDS MODEL # GUAW26. INSTALL SUCH THAT BOX IS IN A VERTICAL POSITION SO THE MAXIMUM WIDTH IS 4-1/4". COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH PROPANE DISPENSING VENDOR PRIOR TO ROUGH-IN. COORDÍNATE LOCATION OF CONDUIT ENTRIES WITH PROPANE DISPENSING VENDOR PRIOR TO ORDERING. JUNCTION BOX MUST BE CLASS 1, DIVISION 1 RATED, MEET ALL DIVISION REQUIREMENTS PER NFPA, AND MUST PASS ELECTRICAL INSPECTION.

35. CONDUITS SHALL NOT BE RUN EXPOSED OR SURFACE MOUNTED INSIDE THE DRESSING ROOM. ANY CONDUIT FOR EXTERIOR DEVICES SHALL BE RUN CONCEALED IN THE WALL. INTERIOR DRESSING ROOM WALLS TO BE CLEAR OF CONDUIT AND JUNCTION BOXES BELOW 96" ABOVE FINISHED FLOOR. 36. NOTE NOT USED.

37. ALL CONDUITS INSTALLED IN THE STOCKROOM AREA SHALL BE INSTALLED AS TIGHT TO ROOF DECK AS ALLOWED BY 38. PROVIDE 120V-24V TRANSFORMER AS NEEDED FOR VAV DAMPER. COORDINATE EXACT REQUIREMENTS FOR VAV

39. "CHICK DAYS" OUTLET. INSTALL OUTLET TO BOTTOM OF JOIST AT DIMENSIONED LOCATION. VERIFY EXACT LOCATION WITH TSC FINAL FIXTURE PLAN. INSTALL CONTRACTOR PROVIDED POWER REEL CONNECTED TO OUTLET. POWER REEL SHALL BE HUBBELL #HBLC40123TT. 40. J-BOX FOR CONNECTION TO HAND DRYER. COORDINATE EXACT LOCATION AND

MOUNTING HEIGHT WITH ARCHITECT. 41. QUADRAPLEX RECEPTACLE WALL MOUNTED AT 108" ABOVE FINISHED FLOOR FOR EAS. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH TSC CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.

42. PROVIDE ELECTRICAL DROP FOR LED LIGHTING ASSOCIATED WITH FIXTURING. PROVIDE DUPLEX RECEPTACLE INSTALLED ON END OF CONDUIT DROP. RECEPTACLE SHALL BE INSTALLED AT TOP OF FIXTURE. HEIGHTS MAY VARY. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH TSC PROJECT MANAGER AND FINAL FIXTURE PLAN.

DAMPER WITH MECHANICAL PLANS/MECHANICAL CONTRACTOR.

43. POWER AND DATA TO FRONT COUNTER TO BE ROUTED IN SURFACE RACEWAY FROM REAR COUNTER. ALL POWER AND DATA TO SERVICE COUNTER AREA TO BE ROUTED IN TWO CHANNEL POWER POLE DESCRIBED IN NOTE #3.

44. RECEPTACLE FOR FLOOR SCRUBBER. PROVIDE LABEL ABOVE RECEPTACLE STATING "OUTLET FOR FLOOR SCRUBBER ONLY". IN RETROFIT STORES LOCATE 18"AFF AND 36" FROM SIDE OF MOP SINK ON SIDE MOST CLEAR OF OTHER ITEMS. COORDINATE LOCATION WITH FINAL FIXTURE PLAN PRIOR TO ROUGH-IN. RECEPTACLE SURFACE MOUNTED ON THE PLYWOOD.

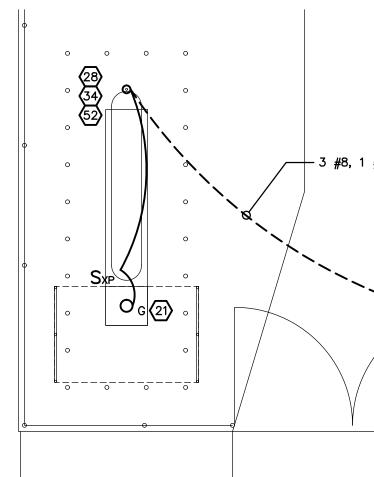
45. PROVIDE POWER FOR SLIDING GATE AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH GATE VENDOR. THE REAR GATE IS TO BE CONTROLLED BY AN INDUCTIVE LOOP DETECTOR AND HAVE A POST MOUNTED KEYPAD FOR MANUAL OVERRIDE. PROVIDE CONTROL WIRING AS REQUIRED PER VENDOR RECOMMENDATIONS. 46. PROVIDE WP DUPLEX RECEPTACLE W/ WEATHER PROOF WHILE-IN-USE COVER IN CAST BOX MOUNTED TO SHADE STRUCTURE POST FOR MOBILE POS SYSTEM.

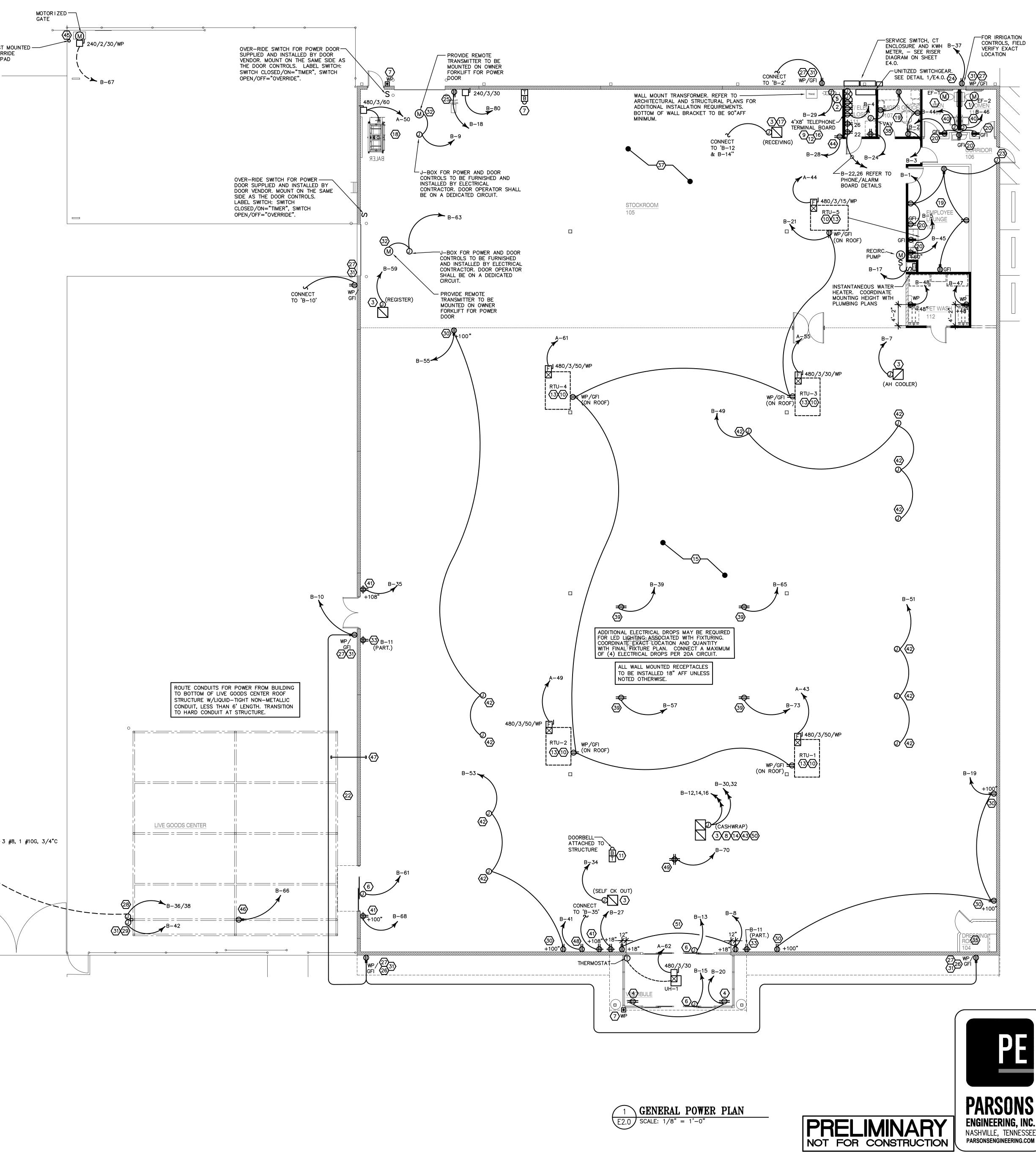
47. PROVIDE 3/4"C STUB FROM BUILDING INTO LIVE GOODS CENTER STRUCTURE BELOW EAVE FOR LOW VOLTAGE/SECURITY WIRING. ROUT CONDUITS OVERHEAD TO BOTTOM OF LIVE GOODS CENTER ROOF STRUCTURE W/ LIQUID-TIGHT NON-METALLIC CONDUIT, LESS THAN 6' LENGTH, TERMINATE W/ CLAMP AT UNDERSIDE OF STRUCTURE. 48. RECEPTACLE FOR CHAINSAW POG. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH TSC CONSTRUCTION MANAGER AND FINAL FIXTURE PLAN.

49. QUADRAPLEX RECEPTACLE MOUNTED AT 9'-6" AFF ON TV MOUNTING BRACKET. RECEPTACLE TO BE INSTALLED ON THE INSIDE OF ONE OF THE STEEL BRACKETS, CONTRACTOR SHALL RUN MC CABLE ON THE OUTSIDE OF THE STEEL SUSPENSION POLE AND SECURE TO THE POLE. LEAVE 16" OF SLACK MC CABLE COILED AT THE BAR JOIST FOR POSSIBLE FUTURE RELOCATION. COORDINATE EXACT LOCATION WITH FINAL FIXTURE PLAN AND TSC CONSTRUCTION MANAGER. 50. TWO POWER POLES MOUNTED BACK TO BACK. ONE FOR POWER WIRING AND ONE FOR LOW VOLTAGE WIRING.

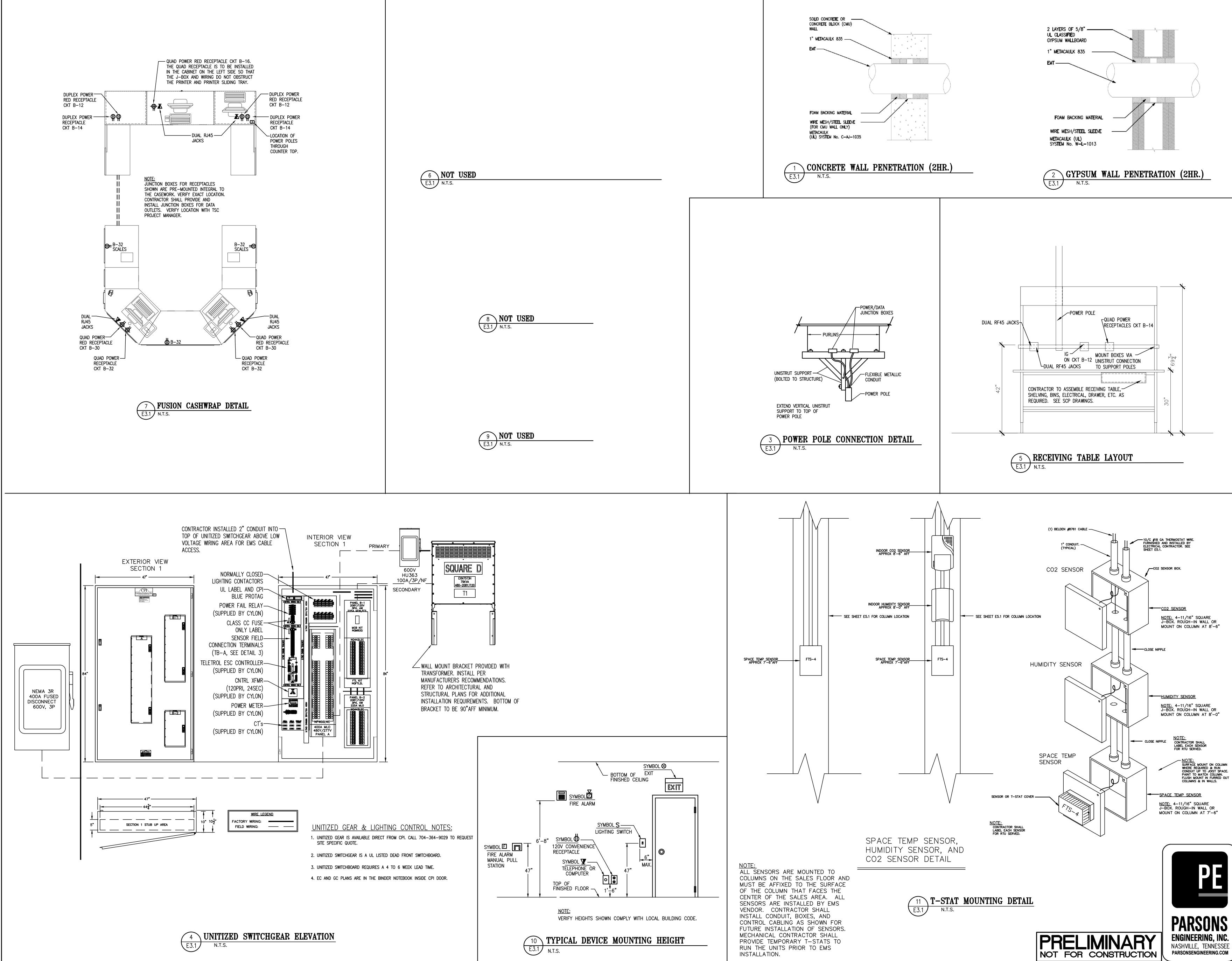
SECURE POWER POLES TO TOP OF COUNTER ON RIGHT CORNER BEHIND TSC COMPUTER. VERIFY EXACT LOCATION WITH TSC PROJECT MANAGER AND FINAL FIXTURE PLAN. 51. REFER TO ARCHITECTURAL ELEVATIONS OF STOREFRONT FOR EXACT PLACEMENT OF DEVICES ON FRONT WALL.

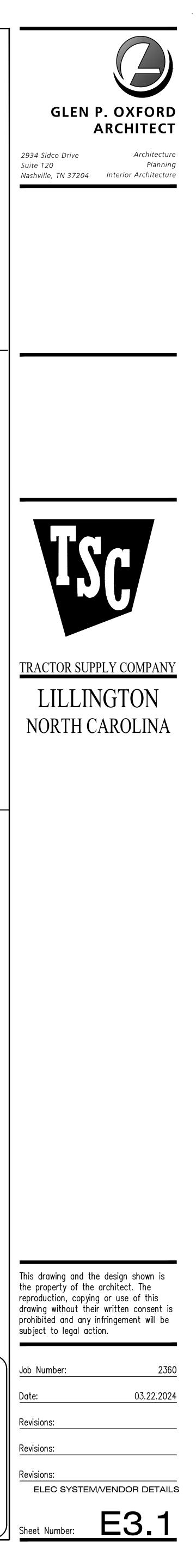
52. PROVIDE BUCK-BOOST TRANSFORMER TO PROVIDE 240V AT PROPANE DISPENSER. BUCK-BOOST TRANSFORMER SHALL BE FEDERAL PACIFIC #K1XGF12-0.5 OR APPROVED EQUAL. MOUNT BUCK BOOST TRANSFORMER ADJACENT TO ELECTRICAL PANEL. 240V MUST BE PROVIDED AT THE PROPANE DISPENSER.

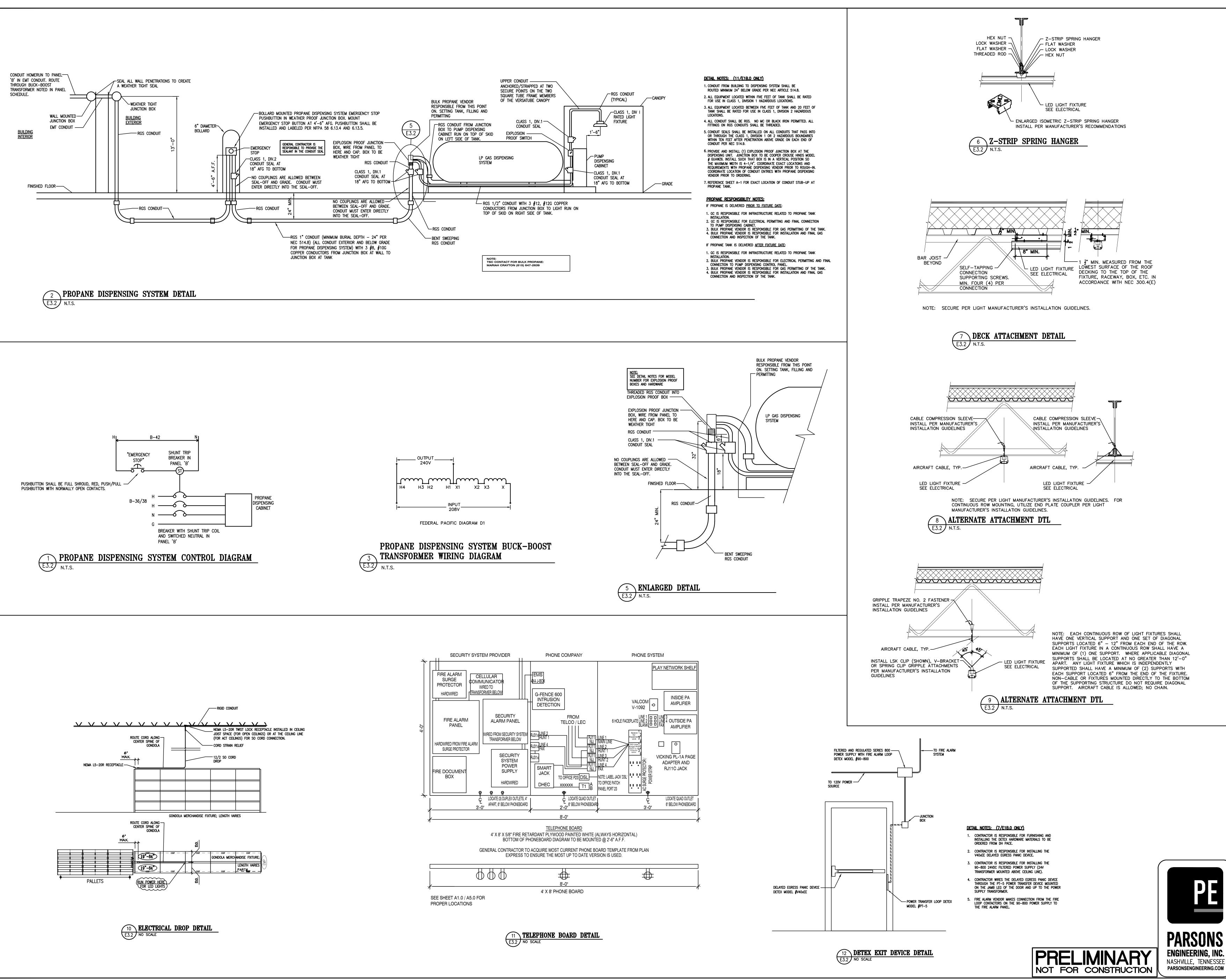


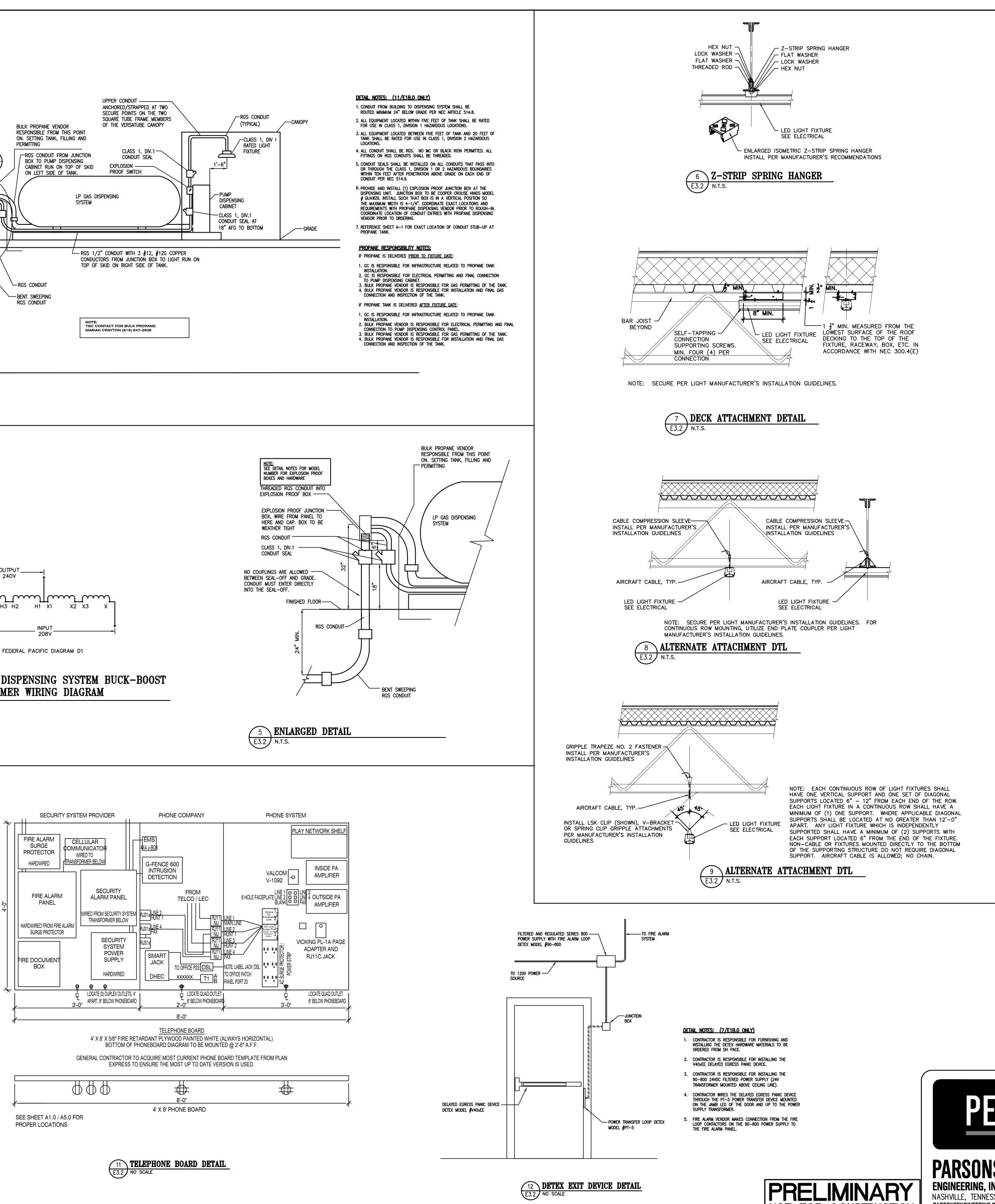


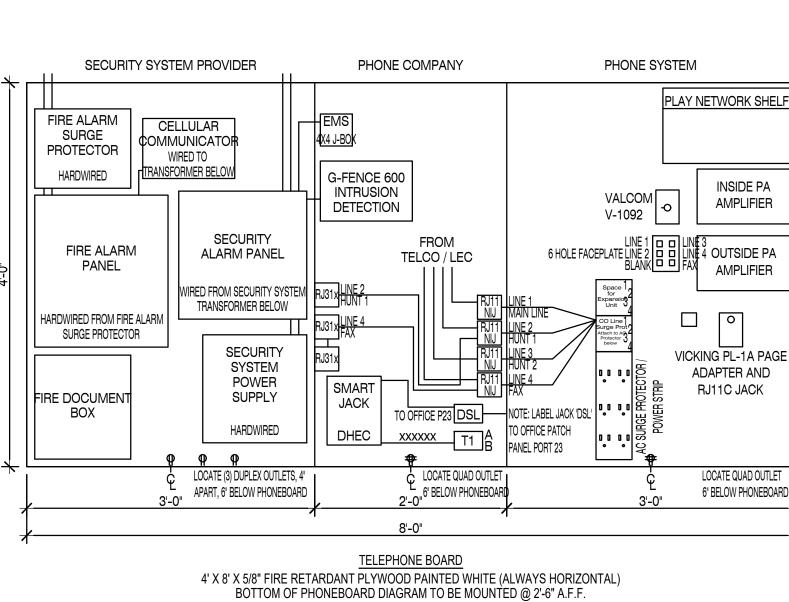
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GENERAL POW	/ER PLAN
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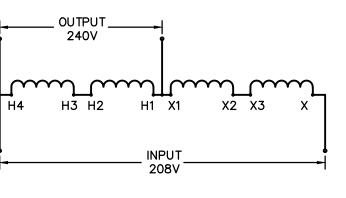


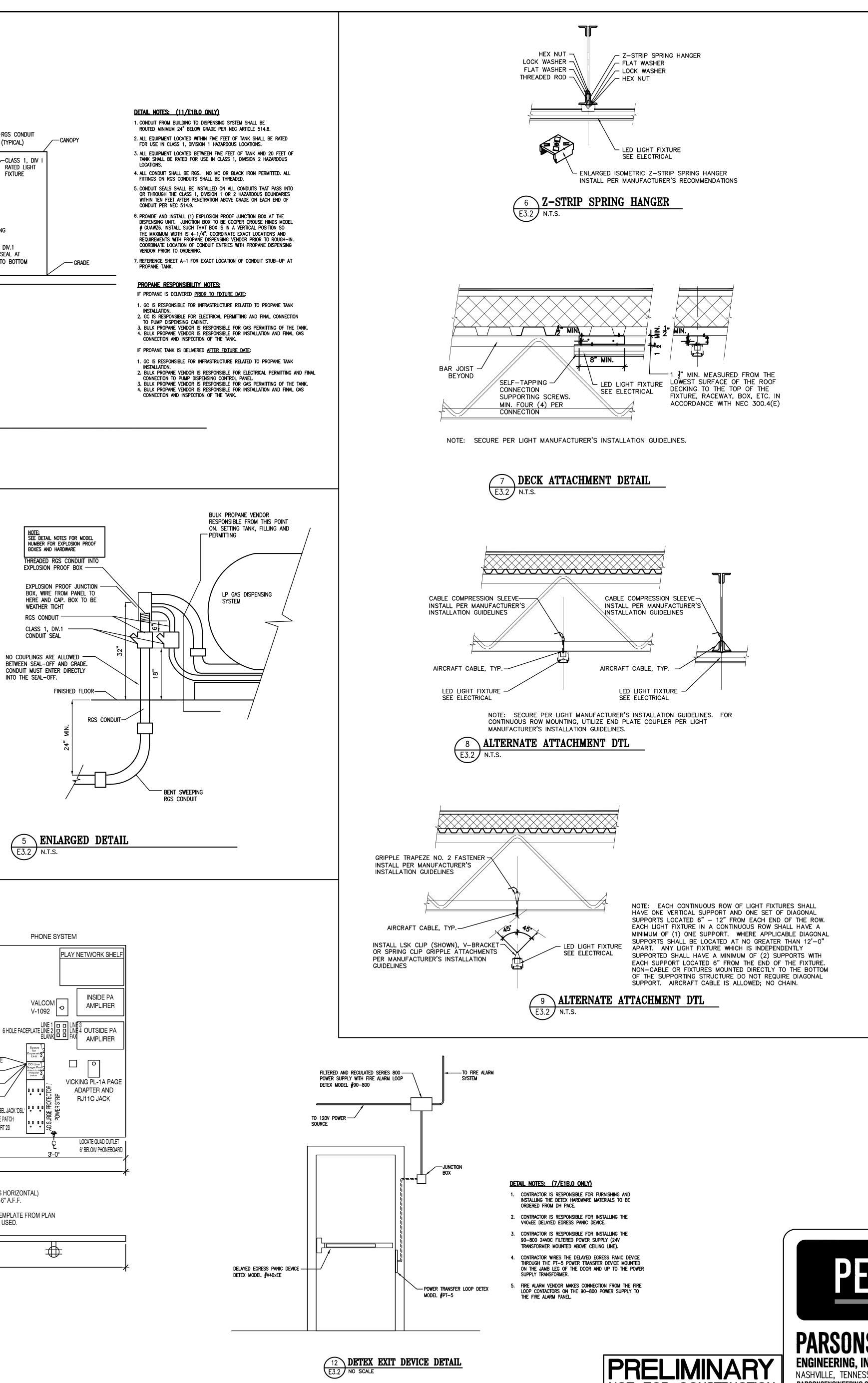












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Date: 03.22.2024
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Revisions:
Revisions: ELEC SYSTEM/VENDOR DETAILS
Sheet Number: E3.2

ELECTRICAL SPECIFICA	FIONS
SECTION 16000 GENERAL PROVISIONS PART 1 GENERAL	C. INSTALLATION: 1. IN LONG RACEWAYS FURNISH AND INSTALL THE PI
1.01 REFERENCE STANDARDS	PULL BOXES TO FACILITATE INSTALLATION OF CONDUCTORS. 2. INSTALL SEPARATE GROUNDING CONDUCTOR IN EAC
A. NFPA 70 NATIONAL ELECTRICAL CODE B. NFPA 101 LIFE SAFETY CODE	3. PROVIDE RIGID GALVANIZED STEEL ELBOWS AND Y RUNS OF PVC CONDUIT ENTERING GROUND OR FLOOR IN UNPROT
C. ALL OTHER APPLICABLE STATE AND LOCAL CODES. 1.02 SUBMITTALS	<ul><li>3.02 WIRES AND CABLES</li><li>A. CONDUCTORS SHOWN ON DRAWINGS AS SIZED FOR COPPEN</li></ul>
A. SHOP DRAWINGS: 1. SUBMIT FOR APPROVAL, PRIOR TO INSTALLATION, SIX COPIES OF	OTHERWISE. WHEN USING ALUMINUM, SIZE FOR EQUAL OR GREA AND RESIZE CONDUIT AS REQUIRED. B. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT I
COMPLETE DESCRIPTIVE DATA ON ALL EQUIPMENT AND SYSTEMS AS REQUIRED BY OTHER SECTIONS OF THIS SPECIFICATION. CLEARLY INDICATE ALL PROPOSED SUBSTITUTIONS AND DEVIATIONS FROM DRAWINGS AND SPECIFICATIONS.	BELOW. C. BRANCH CIRCUITS RUN CONCEALED IN WALLS OR CEILII
2. CHECK ALL SUBMITTALS FOR CLEARANCES AND COORDINATION WITH OTHER TRADES. SUBMITTALS SHALL BE CERTIFIED, BY THE CONTRACTOR'S APPROVAL STAMP, THAT ALL CONDITIONS HAVE BEEN CHECKED AND THAT NO CONFLICTS EXIST. B. RECORD DRAWINGS	AMPS MAY BE TYPE MC CABLE. D. LOW VOLTAGE CONTROL AND SIGNAL CABLE MAY BE RUN ABOVE ACCESSIBLE CEILINGS. CABLES AND CABLE SUPPORTS MUST BE PLENUM RATED. OPEN WIRING SHALL BE SUPPORTED
1. SUBMIT, TO THE OWNER, RECORD DRAWINGS SHOWING FIELD CHANGES MARKED IN RED.	SECTION 16400 SERVICE AND DISTRIBUTION
1.03 COORDINATION A. UTILITY COMPANIES	PART 1 GENERAL 1.01 SUBMITTALS
1. COORDINATE WITH UTILITY COMPANIES FOR SPECIFIC REQUIREMENTS FOR ELECTRICAL POWER AND TELEPHONE SERVICE.	A. UNITIZED SWITCHGEAR
2. INSTALL ELECTRICAL SERVICE IN ACCORDANCE WITH CURRENT UTILITY COMPANY REQUIREMENTS.	<ul><li>B. DISCONNECT SWITCHES</li><li>C. TRANSFORMERS</li></ul>
<ul> <li>B. OTHER TRADES</li> <li>1. COORDINATE WITH MECHANICAL DRAWINGS FOR POWER AND CONTROL</li> </ul>	D. FUSES PART 2 PRODUCTS
REQUIREMENTS FOR THE SPECIFIC EQUIPMENT TO BE INSTALLED AND FOR EQUIPMENT SUCH AS STARTERS AND DISCONNECT SWITCHES THAT MAY BE FURNISHED WITH THE EQUIPMENT.	2.01 UNITIZED SWITCHGEAR
C. OWNER FURNISHED EQUIPMENT 1. COORDINATE WITH VENDOR'S OF OWNER FURNISHED EQUIPMENT FOR POWER REQUIREMENTS PRIOR TO ROUGH-IN. COORDINATION SHALL INCLUDE BUT NOT BE LIMITED TO OVERCURRENT PROTECTION TYPE AND SIZE, WIRE SIZE, NEMA CONFIGURATION OF ASSOCIATED RECEPTACLES, ETC.	<ul> <li>A. UNITIZED SWITCHGEAR SHALL CONTAIN BREAKERS AS DIUNITIZED SWITCHGEAR SHALL BE RATED FOR THE SHORT CIRCU AND SERIES COMBINATION RATINGS MUST BE UL RECOGNIZED. PURCHASED FROM NATIONAL ACCOUNT VENDOR LISTED ON THE PI</li> <li>2.02 DISCONNECT SWITCHES</li> <li>A. FUSIBLE OR NONFUSIBLE QUICK-MAKE, QUICK-BREAK, I</li> </ul>
1.04 WORK INCLUDED A. THE WORK OF THIS SECTION INCLUDES FURNISHING OF LABOR AND MATERIALS AS REQUIRED FOR INSTALLATION OF A NEW ELECTRICAL DISTRIBUTION SYSTEM INCLUDING SERVICE, FEEDERS, PANELBOARDS, BRANCH CIRCUITS, LIGHTING, AND CONNECTIONS TO ALL EQUIPMENT REQUIRING ELECTRICAL POWER.	ENCLOSED KNIFE SWITCH WITH EXTERNALLY OPERABLE HANDLE OPENING FRONT COVER WITH SWITCH IN "ON" POSITION. APPI CUTLER-HAMMER, GENERAL ELECTRIC, SIEMENS, AND SQUARE D 2.03 TRANSFORMERS(DOE EFFICIENT DRY-TYPE)
<ul> <li>B. INSTALLATION OF CONDUIT FOR TELEPHONE AND DATA WIRING.</li> <li>C. INSTALLATION OF SEISMIC RESTRAINT SYSTEMS FOR ELECTRICAL COMPONENTS IN SEISMIC REGIONS.</li> </ul>	A. AIR COOLED, 480 VOLT DELTA PRIMARY, 208/120 VOL SIZE AS INDICATED, 150 DEGREES C RISE, WITH TWO 2-1/2% VOLTAGE AND TWO 2-1/2% TAPS BELOW NORMAL VOLTAGE. ACC ARE EATON-CUTLER HAMMER, ABB-GENERAL ELECTRIC, SIEMENS 2.04 FUSES
1.05 DRAWINGS A. THE DRAWINGS ARE PARTLY DIAGRAMMATIC AND DO NOT SHOW IN DETAIL ALL REQUIRED FEATURES OF THE WORK NOR CONCEALED CONDITIONS. THEY SHALL BE SUPPLEMENTED BY THE CONTRACTOR'S KNOWLEDGE AND EXPERIENCE.	A. FUSES RATED ABOVE 600 AMPS SHALL BE UL CLASS L I PEAK KRP-C. FUSES RATED AT 600 AMPS AND BELOW SHALL BI BUSSMAN LOW-PEAK LPN-RK (250 VOLT) OR LPS-RK (600 VOLT
PART 2 PRODUCTS 2.01 GENERAL	PART 3 EXECUTION 3.01 GENERAL
A. ALL ELECTRICAL EQUIPMENT INSTALLED SHALL BEAR THE UL LABEL EXCEPT WHERE UL DOES NOT LABEL SUCH EQUIPMENT. 2.02 GUARANTEE	A. MAINTAIN CODE REQUIRED WORKING CLEARANCES AROUNI EQUIPMENT. COORDINATE INSTALLATION WITH ARCHITECTURAL LOCATIONS, AND DUCTWORK.
A. FURNISH A WRITTEN GUARANTEE THAT ALL EQUIPMENT FURNISHED AND INSTALLED WILL BE FREE OF DEFECTS OF MATERIAL AND WORKMANSHIP FOR A PERIOD OF 1 YEAR FROM DATE OF ACCEPTANCE OF THE WORK BY THE OWNER. PROMPTLY REPLACE AND REPAIR ALL DEFECTIVE EQUIPMENT AND ALL OTHER EQUIPMENT DAMAGED THEREBY AT NO ADDITIONAL COST TO THE OWNER. PART 3 EXECUTION	B. ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS, PANEL ENCLOSED CIRCUIT BREAKERS, INDUSTRIAL CONTROL PANELS, I AND MOTOR CONTROL CENTERS, THAT ARE LIKELY TO REQUIRE I SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE FIEL QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC HAZARDS PEL MARKING SHALL BE LOCATED AS TO BE CLEARLY VISIBLE TO QU EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF
<ul><li>3.01 GENERAL</li><li>A. VISIT PROJECT SITE BEFORE SUBMISSION OF BID AND BECOME FAMILIAR WITH</li></ul>	<ul><li>3.02 UNITIZED SWITHCGEAR/PANELBOARDS</li><li>A. INSTALL NEW UNITIZED SWITCHGEAR/PANELBOARDS AS</li></ul>
EXISTING CONDITIONS AND LOCATIONS OF EXISTING UTILITIES. B. THE ENTIRE INSTALLATION SHALL BE MADE IN A NEAT MANNER BY PERSONS SKILLED IN THE ELECTRICAL TRADE AND SHALL BE IN ACCORDANCE WITH THE REFERENCE STANDARDS LISTED ABOVE.	B. ALL PANELS SHALL HAVE ENGRAVED PLASTIC LABELS AND DIRECTORIES. DIRECTORIES SHALL DESCRIBE LOAD FOR EACH 3.03 TRANSFORMERS
C. MAKE POWER CONNECTIONS TO AIR CONDITIONING EQUIPMENT AND OWNER FURNISHED EQUIPMENT. FURNISH AND INSTALL ALL ASSOCIATED RECEPTACLES AND DISCONNECT SWITCHES. FUSE SIZES FOR DISCONNECT SWITCHES SHALL BE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.	A. MOUNT TRANSFORMERS ON VIBRATION ISOLATORS. GROU SECONDARY SIDE TO COLD WATER PIPE AND BUILDING STEEL. B. WHERE TRANSFORMERS ARE SHOWN MOUNTED ABOVE FLOOD SUPPORTS AS REQUIRED. VERIFY CAPACITY OF WALL OR STRUCT SUSPENDED TRANSFORMERS.
D. FURNISH AND INSTALL CONDUIT AND WIRE FOR AIR CONDITIONING CONTROL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR LOCATIONS AND REQUIREMENTS. E. PROVIDE SEISMIC RESTRAINT SYSTEMS TO MEET TOTAL DESIGN LATERAL FORCE	C. PROVIDE MINIMUM 6" SPACE BEHIND AND BESIDE TRANSFORMED CIRCULATION/VENTILATION.
REQUIREMENTS FOR SUPPORT AND RESTRAINT OF PIPING, CONDUIT, CABLE TRAYS, LIGHTING FIXTURES AND OTHER SIMILAR SYSTEMS AND EQUIPMENT AS REQUIRED BY THE ENFORCED EDITION OF THE INTERNATIONAL BUILDING CODE, ASCE-7, AND LOCAL AUTHORITIES. RESTRAINT SELECTION AND INSTALLATION DETAILS SHALL BE APPROVED BY A LICENSED ENGINEER EXPERIENCED IN SEISMIC RESTRAINT DESIGN.	SECTION 16500 LIGHTING PART 1 GENERAL
<ul><li>3.02 TESTING</li><li>A. ALL SYSTEMS AND EQUIPMENT INSTALLED SHALL BE COMPLETELY TESTED AND</li></ul>	1.01 SUBMITTALS A. LIGHTING FIXTURES
SHALL BE LEFT IN GOOD WORKING ORDER.	PART 2 PRODUCTS 2.01 GENERAL
SECTION 16050 BASIC ELECTRICAL MATERIALS AND METHODS PART 1 GENERAL	A. PROVIDE LIGHTING FIXTURES AS SPECIFIED ON LIGHT OF SIZES, TYPES, RATINGS, AND WITH FEATURES INDICATED. PURCHASED FROM NATIONAL ACCOUNT VENDOR LISTED ON LIGHT
NOT APPLICABLE PART 2 PRODUCTS	SUBSTITUTIONS ARE NOT ALLOWED. B. FIXTURES SHALL BE COMPLETE WITH LAMPS, BALLASTS
2.01 RACEWAYS A. RIGID STEEL CONDUIT	HARDWARE, AND ACCESSORIES FOR INSTALLATION AND PROPER 0 2.02 EMERGENCY LIGHTING BATTERY UNITS
B. ELECTRICAL METALLIC TUBING	A. MINIMUM 1500 LUMENS FOR 90 MINUTES WHETHER INTER PART 3 EXECUTION
C. POLYVINYLCHLORIDE CONDUIT 2.02 WIRES AND CABLES	<ul><li>3.01 GENERAL</li><li>A. INSTALL FIXTURES AS INDICATED ON DRAWINGS. REFI</li></ul>
A. SERVICE AND FEEDERS: COPPER, 600 VOLT, TYPE THHN OR THWN INSULATION OR ALUMINUM CONDUCTOR, 600 VOLT, TYPE XHHW-2 INSULATION. SIZES INDICATED ON DRAWINGS ARE FOR COPPER. ALUMINUM CONDUCTORS SHALL BE SIZED TO HAVE AMPACITY EQUAL TO COPPER CONDUCTORS INDICATED ON DRAWINGS.	PLAN FOR EXACT LOCATIONS.
<ul> <li>BRANCH CIRCUIT WIRES: COPPER CONDUCTOR, 600 VOLT, TYPE THHN OR THWN</li> <li>INSULATION.</li> <li>C. BRANCH CIRCUIT CABLES: COPPER CONDUCTOR, 600 VOLT, TYPE MC WITH</li> </ul>	
D. CONTROL CIRCUIT CABLES: COPPER CONDUCTOR, NO.14 AWG, TYPE THHN, OR AS	
REQUIRED BY EQUIPMENT MANUFACTURER. 2.03 JUNCTION BOXES - PROVIDE STEEL BOXES FOR INTERIOR APPLICATIONS AND CAST TYPE	
BOXES FOR OUTDOOR APPLICATIONS. 2.04 WIRING DEVICES	
A. WALL SWITCHES: AC GENERAL USE SNAP SWITCH WITH TOGGLE HANDLE, SPECIFICATION GRADE, 20 AMPERES, 120-277 VOLTS.	
<ul> <li>B. WALL DIMMER SWITCHES, APPROPRIATE FOR LED APPLICATIONS.</li> <li>C. WALL OCCUPANCY SENSORS TO BE DUAL TECHNOLOGY (PASSIVE INFRARED AND ULTRASONIC) COMBINATION DIMMING TYPE WHERE INDICATED.</li> </ul>	
D. CEILING MOUNTED OCCUPANCY SENSORS, DUAL TECHNOLOGY (PASSIVE INFRARED AND ULTRASONIC) TYPE. CORRIDOR APPLICATION SENSORS TO BE PASSIVE INFARED TYPE. PROVIDE	
POWER PACKS AND/OR RELAYS AND ADDITIONAL SENSORS WHERE REQUIRED BY VENDOR. E. RECEPTACLES: TYPE 5-15R, UNLESS INDICATED OTHERWISE, SPECIFICATION GRADE. DUPLEX RECEPTACLES ON DEDICATED CIRCUITS SHALL BE NEMA TYPE 5-20R. LISTED TAMPER RESISTANT RECEPTACLES SHALL BE PROVIDED IN THOSE AREAS DESIGNATED PER NEC 406.12. OUTDOOR RECEPTACLES SHALL BE WEATHER RESISTANT. DEVICE COLOR TO BE SELECTED BY ARCHITECT.	
<ul> <li>F. COVERPLATES</li> <li>1. INDOOR: NYLON, COLOR TO BE SELECTED BY ARCHITECT.</li> <li>2. OUTDOOR &amp; INDOOR WET LOCATIONS: PAINTED, CAST ALUMINUM, EXTRA DUTY RATED, WEATHERPROOF WHILE IN USE TYPE.</li> </ul>	
A. PROVIDE LAMINATED PLASTIC TAGS FOR ALL PANELBOARDS AND DISCONNECT SWITCHES. TAGS SHALL COMPLETELY IDENTIFY EQUIPMENT MARKED OR CONTROLLED.	
PART 3 EXECUTION	
<ul> <li>3.01 RACEWAYS</li> <li>A. ALL RACEWAYS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS'</li> <li>INSTRUCTIONS.</li> <li>B. PERMITTED USAGE:</li> </ul>	
B. PERMITTED USAGE: 1. ALL INTERIOR RACEWAYS SHALL BE GALVANIZED ELECTRICAL METALLIC TUBING (EMT).	
2. RACEWAYS UNDERGROUND, EXPOSED TO EXTERIOR, OR CAST IN CONCRETE SHALL BE GALVANIZED RIGID STEEL CONDUIT (RGS) OR SCHEDULE 40 PVC.	

	ELECTRICAL LEGEND mounting heights measured to g		GENERAL ELECTRICAL 1. VISIT PROJECT SITE BEFORE SUBMISSI	
THE PROPER NUMBER AND SIZE ORS.	CONDUIT RUN CONCEALED IN WALL, CEILING, OR FLO		EXISTING CONDITION AND LOCATIONS OF UT 2. COORDINATE INSTALLATION OF NEW SEF	ILITIES. RVICE WITH LOCAL ELECTRIC UTILITY
IN EACH RACEWAY.	HOMERUN TO PANEL INDICATED	UNU	COMPANY. PROVIDE TRENCHING, CONDUIT, ITEMS AS REQUIRED. INSTALL SERVICE IN COMPANY REQUIREMENTS.	ACCORDANCE WITH CURRENT UTILITY
S AND VERTICAL SECTIONS FOR UNPROTECTED LOCATIONS.	← RECEPTACLE, DUPLEX, 120V, 15A. UNO, @ 18" AFF 1 ← RECEPTACLE, DUPLEX, 120V, 15A. UNO, SMH	ТО ВОТТОМ	3. COORDINATE INSTALLATION OF TELEPHO TELEPHONE COMPANY. INSTALL (2) 2" CON TELEPHONE TERMINAL BOARD.	ONE SERVICE CONDUIT WITH LOCAL NDUITS FROM TELEPHONE SERVICE POIN
COPPER UNLESS NOTED OR GREATER AMPACITY,	RECEPTACLE, QUADRAPLEX, 120V, 15A. UNO, @ 18"	AFF TO BOTTOM	4. FURNISH AND INSTALL A 4'X 8'X 3/4" BOARD, PAINTED WHITE. FURNISH AND INST	ALL GROUNDING TERMINAL STRIP ON
NDUIT EXCEPT AS PERMITTED	RECEPTACLE, QUADRAPLEX, 120V, 15A. UNO, SMH RECEPTACLE, SINGLE, 250V, AMPS AS NOTED, @ 8"	AFF TO BOTTOM	BACKBOARD (SQUARE D #PK18GTA OR EQUIVA COPPER GROUNDING CONDUCTOR IN 1/2" CON TERMINAL TO ELECTRICAL SERVICE GROUNDI	IDUIT FROM BACKBOARD GROUNDING
CEILINGS AND RATED AT 20	RECEPTACLE, DUPLEX, 120V, 15A. UNO, CEILING MOU	INTED	5. INSTALL 1" CONDUIT FROM EACH TELEF NEAREST ACCESSIBLE CEILING WITH AN INS	SULATED BÚSHING ON EACH END.
BE RUN OPEN WHEN CONCEALED	<ul> <li>JUNCTION BOX, SIZE AS REQUIRED</li> <li>SWITCH, SINGLE POLE, 120/277V, 20A, 48" AFF TO</li> </ul>	ВОТТОМ	6. PROVIDE CONTROL POWER SOURCE FOR A SUPPLIED WITH CONTROL POWER TRANSFORME CONTROL DEVICES IN ACCORDANCE WITH MAN	RS. INSTALL AND CONNECT ALL
PORTS INSTALLED IN AIR PLENUMS ORTED FROM STRUCTURE.	S <sub>3</sub> SWITCH, THREE WAY, 120/277V, 20A, 45" AFF TO B (MS) MOTION SENSOR SWITCH	BOTTOM	7. VERIFY ELECTRICAL POWER REQUIREMEN CIRCUITS AND FUSES SIZED IN ACCORDANCE	ITS FOR ALL EQUIPMENT. PROVIDE WITH MANUFACTURERS' RECOMMENDATI
	₩ PHONE/DATA OUTLET, 4x4 BOX W/1"C TO ABOVE CL		8. MAINTAIN CODE REQUIRED WORKING CLE DISCONNECT SWITCHES, AND STARTERS.	ARANCE AT ALL ELECTRICAL PANELS,
	<ul> <li>✓ PHONE/DATA OUTLET, 4x4 BOX W/1"C TO ABOVE CL</li> <li>✓ PHONE/DATA OUTLET, 4x4 BOX W/1"C TO ABOVE CL</li> </ul>		9. PROVIDE DISCONNECT SWITCH FOR ANY WITH DISCONNECTING MEANS.	
			10. SEE MECHANICAL DRAWINGS AND SPECIF REQUIREMENTS FOR MECHANICAL EQUIPMENT SWITCHES AND CONVENIENCE RECEPTACLES 1 EQUIPMENT.	AND FOR STARTERS, DISCONNECT
			11. COORDINATE EXACT LOCATION OF ALL C ARCHITECTURAL DRAWINGS. PROVIDE FIXTU	
			INSTALLED.	SE SHALL BE PROVIDED WITH INTEGRAL
S AS DESCRIBED ON THE PANEL SCHEDULES.			BATTERY. THOSE FIXTURES SHALL BE CIRC SWITCH TO BATTERY OPERATION UPON FAILU SHALL BE UNSWITCHED.	
CIRCUIT INTERRUPTING CAPACITY INDICATE IZED. UNITIZED SWITCHGEAR SHALL BE THE PLANS.	ED		13. ALL RECEPTACLES ON DEDICATED CIRCU CIRCUIT OVERCURRENT DEVICE.	JITS SHALL BE RATED NO LESS THAN
	VOLTAGE RATING/NO. OF POLES/SWITCH SIZE IN	AMPS	14. PROVIDE UL LISTED TECHNIQUES FOR F CEILING WITH CONDUIT OR OPEN WIRING. AND CEILING RATINGS.	PENETRATIONS OF RATED WALL AND SEE ARCHITECTURAL DRAWINGS FOR WA
REAK, LOAD INTERRUPTER ANDLE INTERLOCKED TO PREVENT . APPROVED MANUFACTURERS ARE UARE D.	VOLTAGE RATING/NO. OF POLES/FUSE SIZE IN AN SM SWITCH, MOTOR STARTING, MANUAL, SIZE AS REQUIR		15. INSTALL ELECTRICAL BOXES LOCATED O SUCH THAT THEY ARE SEPARATED BY A HORI	ON OPPOSITE SIDES OF RATED WALLS ZONTAL DISTANCE OF 24 INCHES MINI
	MOTOR STARTER, MAGNETIC, SIZE AS REQUIRED $(\widehat{M})$ MOTOR, SEE PANEL SCHEDULE FOR SIZE AND SERVICE	ЭF		
20 VOLT WYE SECONDARY, KVA 2-1/2% TAPS ABOVE NORMAL . ACCEPTABLE MANUFACTURERS	ABBREVIATIONS:		SCHEDULE NOTES	]
IEMENS, AND SQUARE D.	AFF ABOVE FINISHED FLOOR		IRCUIT BREAKER	
ASS L EQUAL TO BUSSMAN LOW- HALL BE UL CLASS RK1 EQUAL TO 0 VOLT).	AFG ABOVE FINISHED GRADE BRKR BREAKER		DE HANDLE TIE - POLES IN ()	
	<pre></pre>	C I RCU LOADS	DE RED RECEPTACLE FOR OUTLETS ON THIS IT TO IDENTIFY CIRCUITS FOR COMPUTER ONLY. DO NOT PLUG REFRIGERATORS OR	
AROUND ALL ELECTRICAL	EF EXHAUST FAN GFI GROUND FAULT INTERRUPTER		ESSORS INTO THIS CIRCUIT. DE LOCK-ON/OFF DEVICE FOR CIRCUIT ER	VOLTAGE: 480, ** -VERIFY SIGN VC
CTURAL FEATURES, PIPING	MTD MOUNTED RTU ROOF TOP UNIT	LZ-X CIRCU	IT TO BE CONTROLLED BY LIGHTING CONTROLS ELAYS IN UNITIZED SWITCHGEAR	NOTE
, PANELBOARDS, DISCONNECTS, NELS, METER SOCKET ENCLOSURES, QUIRE EXAMINATION, ADJUSTMENT,	SMH SPECIAL MOUNTING HEIGHT (4" Ø ABOVE CASEWORK/BACKSPLASH OR 4	45" <u>Ø</u> ST BREAK	ER WITH SHUNT TRIP	LZ-1A         L-SAL           LZ-1B         L-SAL           LZ-1A         L-SAL
BE FIELD MARKED TO WARN RDS PER NEC 110.16. THE E TO QUALIFIED PERSONS BEFORE CE OF THE EQUIPMENT.	AFF IF NO CASEWORK/BACKSPLASH) UNO UNLESS NOTED OTHERWISE	OPERA	DE BUCK-BOOST TRANSFORMER FOR 240V TION. FEDERAL PACIFIC #K1XGF16-0.5 OR	LZ-1B L-SAL LZ-1A L-SAL LZ-1A L-FEE LZ-1A L-LIVE
	WH WATER HEATER WP WEATHERPROOF	EQUAL	. MOUNT ADJACENT TO PANËL.	SPARE SPARE
DS AS INDICATED. BELS AND TYPEWRITTEN R EACH BRANCH CIRCUIT.	POWER MATRIX			LZ-3 L-SIDI SPARE SPARE
		R OUTLETS		SPARE SPARE SPARE SPARE
. GROUND NEUTRAL OF TEEL.	SERVICE COUNTER X X X X REGISTER X X X X	X QUAD IG DED.		SPARE SPARE SPARE SPARE
E FLOOR, PROVIDE STRUCTURAL R STRUCTURE TO SUPPORT	RECEIVING     X     X     X       PHONE/PA	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ALARM LEC CPE 3' 2' 3'	SPARE RTU-1
TRANSFORMER FOR AIR	ALL ISOLATED GROUND DEDICATED OUTLETS FOR THE COMPUTERS CAN CASH REGISTERS ARE ALL RUN THROUGH POWER POLES. ALL OUTLETS ARE TO BE MOUNTED UNDER THE COUNTER TOP TO THE		(3) DEDI. DUPLEX DEDI QUAD DEDI. QUAD	RTU-2
	PHONE BOARD SHALL BE A 4'X8' AREA LAID OUT ON THE PLYWOOD W/ OF PLYWOOD. OUTLETS CAN BE SURFACED MOUNTED. BUT CONDUIT MU EDGES OF EACH SECTION. THE 120V DUPLEX IS A CONVENIENCE OUTLE	ist be run down the Et		RTU-3
	RUN FROM ANY NON-DEDICATED CIRCUIT. EACH OUTLET IS TO BE CLEA "DEDICATED CPE", "DEDICATED TSC ALARMS" OR "CONVENIENCE OUTLET THAT ARE MOUNTED WITHIN 6 FEET OF SINK SHALL BE GFI	ARLY LABELED T". ALL OUTLETS		RTU-4
	PROVIDE (3) DUPLEX RECEPTACLES AT THE ALARM/SECURITY SECTION MOUNT 4" APART MINIMUM, 6" BELOW THE PHONE BOARD FOR CORD A THE VENDOR SUPPLIED SECURITY SYSTEM EQUIPMENT. ALL THREE REC FROM ONE 120 VOLT DEDICATED CIRCUIT. PROVIDE TWO SURFACE MOU	AND PLUG CONNECTIONS TO CEPTACLES SHALL BE POWERED		
LIGHTING FIXTURE SCHEDULE	ADJACENT TO THE DEDICATED DUPLEX RECEPTACLES FOR HARDWIRED F FIRE ALARM EQUIPMENT PANEL, DUCT MONITOR AND THE TWO FIRE ALA CONTRACTOR SHALL WIRE FROM THE JUNCTION BOXES WITH TYPE MC C	POWER CONNECTIONS TO THE ARM SYSTEM POWER SUPPLIES.		
CATED. FIXTURES SHALL BE LIGHTING FIXTURES SCHEDULE.	TO ONE JUNCTION BOX.			VOLTAGE: 208, TWO SECTION PANEL
ROPER OPERATION.	RISER NOTES:		NEW UNDERGROUND SERVICE WITH LOCAL ELECTRIC UTILITY	
BA ST	RNISH AND INSTALL 4' X 8' X 3/4 " PLYWOOD TELEPHONE EQUIPMENT ACKBOARD, PAINTED WHITE. FURNISH AND INSTALL GROUNDING TERMINAL RIP ON BACKBOARD (SQUARE D #PK18GTA OR EQUIVALENT). JRNISH AND INSTALL 1 #6 COPPER GROUNDING CONDUCTOR IN 1/2 " FROM	PROVIDE TRENCHING, CONDUIT, OTHER ITEMS AS REQUIRED. I	CONDUCTORS, METER BASE, CT ENCLOSURE, CONCRETE PA NSTALL SERVICE IN ACCORDANCE WITH CURRENT UTILITY CO	D, AND HT(3) R-MA
BA	ACKBOARD GROUNDING TËRMINAL TO ELECTRIC SERVICE GROUNDING ECTRODE.	7. CONTACTORS FOR CONTROL OF 8. NOTE NOT USED.	SALES FLOOR GENERAL LIGHTING.	DOCK R-SAL
CO REFER TO REFLECTED CEILING CO	RNISH AND INSTALL GROUNDING ELECTRODE AND GROUNDING ELECTRODE ONDUCTOR FOR SERVICE ENTRANCE PANELBOARD. ONNECTIONS AND BONDING JUMPERS SHALL BE INSTALLED	9. 2 SETS EACH WITH [4-#250KC	CMIL, #1G, 3—1/2"C] ALUMINUM TO SERVICE DISCONNECT . TO TRANSFORMER.	AUTO INST V R-CLC
3. FUF	ACCORDANCE WITH NEC ART. 250. REFER TO DETAIL 2/E4.0 ON THIS SHEET. RNISH AND INSTALL TWO 2" SCHEDULE 40 PVC CONDUITS FOR LECOMMUNICATIONS SERVICE ENTRY RACEWAYS. RACEWAYS SHALL	•	R TO PANEL B FROM TRANSFORMER. ROUTE CONDUIT ABOV	E IT ROOM SPARE SPARE R-MO
EX PR	TEND FROM TELEPHONE EQUIPMENT BACKBOARD LOCATION TO SERVICE ROVIDER'S SPECIFIED POINT-OF-SERVICE. COORDINATE WITH LOCAL LECOMMUNICATIONS SERVICE PROVIDER.		e legibly marked in the field with maximum available	FAULT LO ELECT
SCI	CHTING CIRCUITS SHALL BE CONTROLLED AS INDICATED IN PANEL HEDULES (DENOTED LZ-1A&B, LZ-2, ETC.) BY LIGHTING	TRANSFORMER AND PROVIDE T CONDUCTORS TO THE ELECTRIC	L REQUEST THE MAXIMUM AVAILABLE FAULT CURRENT AT TI THIS INFORMATION ALONG WITH THE DISTANCE OF THE SECO CAL ENGINEER. THE ELECTRICAL ENGINEER WILL CALCULAT	NDARY REAS
5. CO	NTROLLER VIA CONTACTORS. DORDINATE CONNECTIONS TO THERMOSTATS WITH ECHANICAL CONTRACTOR. THERMOSTATS TO BE LOCATED ON	CONTRACTOR FOR MARKING.	IRRENT AT THE SERVICE EQUIPMENT AND GIVE RESULTS TO EACH WITH [4-#250KCMIL, 3-1/2"C] ALUMINUM TO UTILITY	R-CH/ LIGHTII TRANSFORMER. G MICRO
	E SALES FLOOR COLUMNS.	15. SERVICE DISCONNECT, 480V, 3 16. DISCONNECT, 480V, 3 POLE, I	3 POLE, FUSED @400A, S.E. RATED, NEMA 3R, 100K AIC.	G PET D POWEF POWEF
			NON-FUSED, TUUA. R DETAIL 4 ON E3.1 UNLESS REQUIRED TO BE FLOOR MOU	NTED BY THE AHJ. G R-CHI POWEF
				AUTO OVERH R-CHI
	TRANSFORMER T–1–––––––––––––––––––––––––––––––––––			SLIDIN SPARE
				R-CHI SPARE SPARE
POWER DISTRIBUTION CENTER		ELEPHONE CPE	ENCLOSURE A	APPROVED CT SPARE
ACCESS DOOR		BOARD	AS REQUIRED COMPANY	
PANE "A"	EL PANEL PANEL "B" B" SECT1 SECT2			

(D)

THE CONTRACTOR SHALL COORDINATE THE SYSTEM VOLTAGE AND ALL ASSOCIATED COSTS TO BRING SERVICE AS INDICATED TO BUILDING. CONTRACTOR SHALL INCLUDE ALL COSTS IN BID AND SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND EQUIPMENT PROVIDED BY OTHER TRADES REQUIRING ELECTRICAL ROUGH-IN WITH SERVICE VOLTAGE USED PRIOR TO BID. CONTRACTOR SHALL ESTABLISH SERVICE IN CONTRACTOR'S NAME AND TRANSFER SERVICE TO TSC UP ON TURN OVER TO TSC.

REFER TO SITE PLAN FOR -----APPROXIMATE DISTANCE

1 POWER RISER DIAGRAM - 480/277V, 3Ø, 4W, 400A E4.0 SCALE: N.T.S.

 $\pm 2$ 

<u>NOTE:</u>

 $\langle 3 \rangle$ 

## CAL NOTES

JBMISSION OF BID AND BECOME FAMILIAR WITH OF UTILITIES. EW SERVICE WITH LOCAL ELECTRIC UTILITY IDUIT, METER BASE, CONCRETE PAD, AND OTHER

ELEPHONE SERVICE CONDUIT WITH LOCAL 2" CONDUITS FROM TELEPHONE SERVICE POINT TO

UREMENTS FOR ALL EQUIPMENT. PROVIDE RDANCE WITH MANUFACTURERS' RECOMMENDATIONS. NG CLEARANCE AT ALL ELECTRICAL PANELS,

F ALL CEILING MOUNTED LIGHT FIXTURES WITH E FIXTURES COMPATIBLE WITH CEILING TYPE

ENCY USE SHALL BE PROVIDED WITH INTEGRAL BE CIRCUITED SUCH THAT THEY AUTOMATICALLY I FAILURE OF POWER TO CIRCUIT. EXIT LIGHTS

S FOR PENETRATIONS OF RATED WALL AND RING. SEE ARCHITECTURAL DRAWINGS FOR WALL

ATED ON OPPOSITE SIDES OF RATED WALLS A HORIZONTAL DISTANCE OF 24 INCHES MINIMUM.

VOLTAGE: 480/277V., 3PH., 4W.

TRACTOR SUPPLY LIGHTING & HEATING SCHEDULE							
		BUILDING LIGHTS WALL PACKS	BUSINESS LIGHTS	EMPLOYEE LIGHTS	HEATING	COOLING	SUNDAY
ON		DUSK TO DAWN PHOTOCELL (ALWAYS ON DURING DARK)	7:30 AM				SAME TEMPS AT 10:00 AM
OFF	9:15 PM	DURING THE DAY	8:30 PM	8:30 PM			SAME TEMPS AT 6:00 PM
LIGHTING CONTROL ZONE	LZ-3	LZ-2	LZ-1B	LZ-1A			
NOTES: THE SYSTEM CAN BE OVERRIDDEN BY THE OVERRIDE SWITCH IN CASE THE STORE IS OPEN EARLIER CONTROL ZONE OR LATER THAN NORMAL STORE HOURS.							

LZ-X DENOTES LIGHTING CONTROL ZONE VIA CONTACTOR IN THE UNITIZED SWITCHGEAR. GC REPONSIBLE FOR PROGRAMMING ALL THERMOSTATS AND LIGHTING CONTROLS. LIGHTSTAT TME THERMOSTAT MODEL TME-DGC. SEE MECHANICAL PLANS FOR MORE INFORMATION.

BIDDING MECHANICAL AND ELECTRICAL CONTRACTORS SHALL COORDINATE WITH GC PRIOR TO BID ON ALL WORK AS IT RELATES TO THE PROGRAMMING OF NON-EMS THERMOSTATS AND LIGHT TIMERS. SERVICE ENTRANCE, NEUTRAL BUS #1/0 COPPER MAIN  $\neg$ -#1/0 COPPER GROUNDING ELECTRODE CONDUCTOR BONDING JUMPER - DOMESTIC WATER DRIVEN GROUND ROD TYPICAL #6 AWG GND. BUS -----MAIN, WITHIN 5ft. OF ENTRANCE TO INTERSYSTEM -BUILDING, PRIOR CADWELD OR UL BONDING #1/0 COPPER TO --TO VALVES TERMINATION BLDG. STEEL LISTED CONNECTION 1/0 COPPER TO ALL ----`**—** #6 AWG-ÖTHER WATER MAIN ENTRANCES #6 AWG — 6'-0" #1/0 COPPER TO GAS -----≻── PIPING MIN. TO TELEPHONE #4 COPPER EXTENDING OUT OF ----The footing ENTRANCE \*\* - FOOTING OR FOUNDATION CONNECT TO RE-INFORCEMENT MINIMUM DEVELOPED LENGTH UFER GROUND

#### 2 SERVICE ENTRANCE GROUNDING E4.0 SCALE: N.T.S.

NOTE: ALL GROUNDING ELECTRODE CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH NEC 250.66. ALL METAL CONDUIT SHALL BE BONDED TO TERMINATING BOXES.

#### \*\* SEPERATE GROUND ROD REQUIRED ONLY IF TELEPHONE SERVICE BOARD IS GREATER THAN 20 FEET FROM ELECTRICAL SERVICE

BUS: 400 AMP MLO A.I.C.: 35 K INTEGRATED MOUNTED

MAIN BKR: 225/3 BUS: 225 AMP --- A.I.C.: 10 K INTEGRATED MOUNTED

CKT BKR WIRE KVA/PHASE # AMPS SIZE A B C

HI ER R	S
NT	ROLS
5	OR

NOTE	DECODIDITION	KV	A/PHA	<b>NSE</b>	WIRE	BKR	CKT	CKT	BKR	WIRE	KV.	A/PHA	SE	DECODIDITION	NOTE
NOTE	DESCRIPTION	Α	B	C	SIZE	AMPS	#	#	AMPS	SIZE	Α	B	С	DESCRIPTION	NOTE
_Z–1A	L–SALES	2.2			12	20	1	<u>↓  2</u>	20	10	3.0			L-NL/EMERG	LO
_Z–1B	L–SALES		2.7		12	20	3	4	20	12		0.4		L-OFFICE/RESTROOMS	
_Z–1A	L–SALES			2.4	12	20	5	6	20	12			0.9	L-STOCKROOM	LZ-1A
_Z–1B	L–SALES	1.5			12	20	7	8	20		0			SPARE	
_Z—1A	L–SALES		0.7		12	20	9		20	10		0.5		L-WALL PACK	LZ-2
_Z—1A	L-FEED STORAGE			0.7	12	20	11	12	20	10			1.5	FUTURE BUILDING SIGN	LZ-3 **
_Z–1A	L-LIVE GOODS CENTER	0.5			12	20	13		20	12	0.2			BUILDING LIGHTS	LZ-3
	SPARE		0			20	15	16	20	6		1.2		PYLON SIGN	LZ-3 **
	SPARE			0		20	17		20	10			1.5	BUILDING SIGN	LZ-3 **
	SPARE	0				20	19		20		0			SPARE	
Z-3	L-SIDE/PARKING LOT		1.4		6	20	21		20			0		SPARE	
	SPARE			0		20	23	24	20				0	SPARE	
	SPARE	0				20	25		20		0			SPARE	
	SPARE		0			20	27		20			0		SPARE	
	SPARE			0		20	29	30	20				0	SPARE	
	SPARE	0				20	31	32	20		0			SPARE	
	SPARE		0			20	33	34	20			0		SPARE	
	SPARE			0		20	35	36	20				0	SPARE	
	SPARE	0				20	37	38	20		0			SPARE	
	SPARE		0			20	39	40	20			0		SPARE	
	SPARE			0		20	41	42	20				0	SPARE	
	RTU-1	9.8			6	50	43		15	12	2.4			RTU-5	
			9.8		6		45	46		12		2.4			
				9.8	6		47	48		12			2.4		
	RTU-2	9.8			6	50	49	50	50	6	5.8			BALER	
			9.8		6		51	52		6		5.8			
				9.8	6		53	54		6			5.8		
	RTU-3	6.1			10	30	55	56	100	2	22.2			PANEL "B" VIA 75KVA	
			6.1		10		57	58		2		23.2		TRANSFORMER	
				6.1	10		59	60		2			17.9		
	RTU-4	9.8			6	50	61			12	1.7			UH-1	
			9.8		6		63			12		1.7		1	
				9.8	6		65	66		12			1.7	1	
		39.7	$\ge$	$\ge$							35.3	$\ge$	$\ge$	A:	75.0 k
		$\searrow$	41.3	$\sim$			ANE	_ "A	<b>77</b>		$\searrow$	35.2		B:	76.5 k
		$\sim$		$\sim$	1			A			$\sim$	30.2	$\sim$	U.	70.J N

MAIN BKR: ---

KVA/PHASE | WIRE | BKR | CKT A | B | C | SIZE | AMPS | #

0.2

UTILITY	COMPANY.
RETE PA	D, AND
FILITY CO	MPANY

#### VAILABLE FAULT INT AT THE HE SECONDARY ALCULATE THE

SPARE SPARE R-MOBILE POS ELECTRIC GONG EMS POWER TOILET EF/RELAY R-EAS LIGHTING CONTROLS0.5MICROWAVE1.2PET DRYER1.7POWER DROP-FIX LTG1.6POWER DROP-FIX LTG1.2POWER DROP-FIX LTG1.2POWER DROP-FIX LTG1.2POWER DROP-FIX LTG1.2POWER DROP-FIX LTG1.2POWER DROP-FIX LTG0.2R-CHICK DAYS1.8POWER POLE REGISTER0.8AUTO ENTRY DOOR0.7OVERHEAD DOOR1.2 OOR MOUNTED BY THE AHJ. VERHEAD DOOR R-CHICK DAYS SLIDING GATE 0.9 0.9 SPARE R-CHICK DAYS SPARE SPARE SPARE SPARE SPARE CUTILITY APPROVED CT

VOLTAGE: 208/120V., 3PH., 4W.

TWO SECTION PANEL WITH FEED-THRU LUGS

R-LOUNGE

R-ROOF

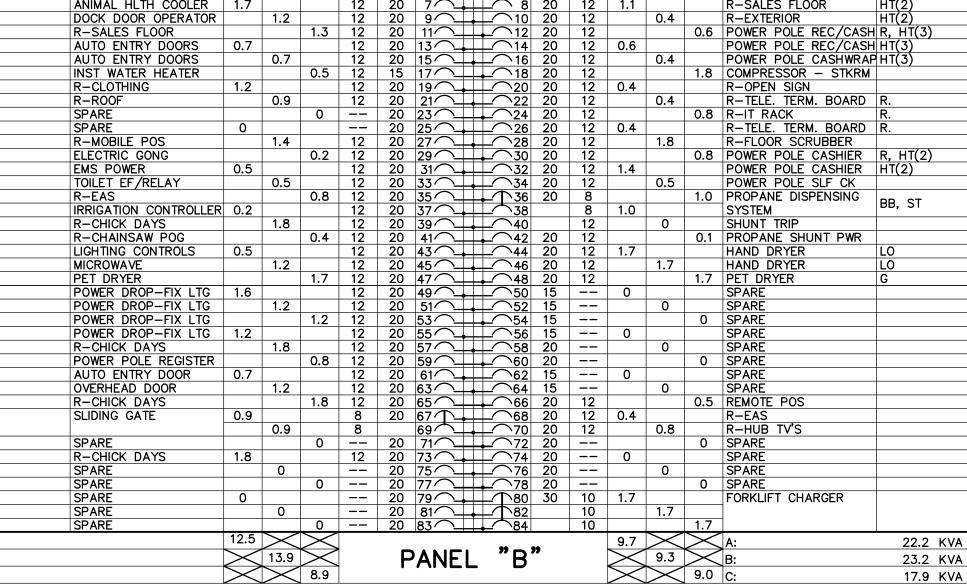
DESCRIPTION

-LOUNGE POWER

R-MANAGER OFFICE

ANIMAL HLTH COOLER

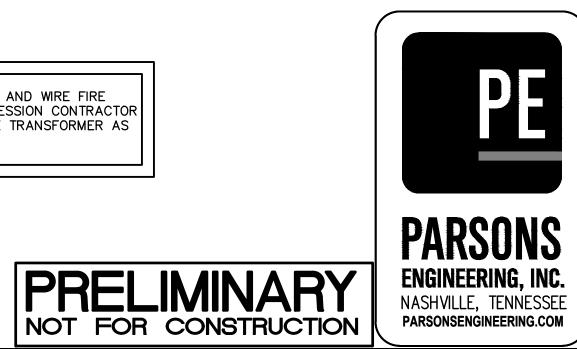
DOCK DOOR OPERATOR R-SALES FLOOR



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22.2 KVA

23.2 KVA 17.9 KVA

63.3 KVA

TOTAL:

221.8 KVA

NOTE

TOTAL:

DESCRIPTION

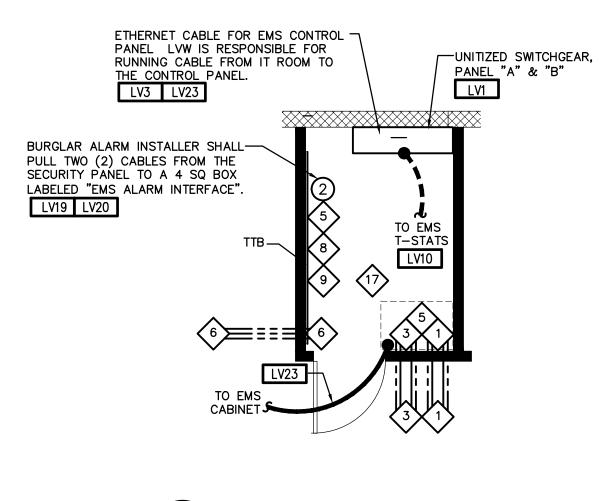
R-TOILETS/EWC R-SECURITY/ALARMS SPARE R-SALES FLOOR

ELECTRICAL CONTRACTOR TO INSTALL AND WIRE FIRE GONG, COORDINATE WITH FIRE SUPPRESSION CONTRACTOR FOR VOLTAGE. PROVIDE LOW VOLTAGE TRANSFORMER AS REQUIRED.

**−ر (6)(14)** 

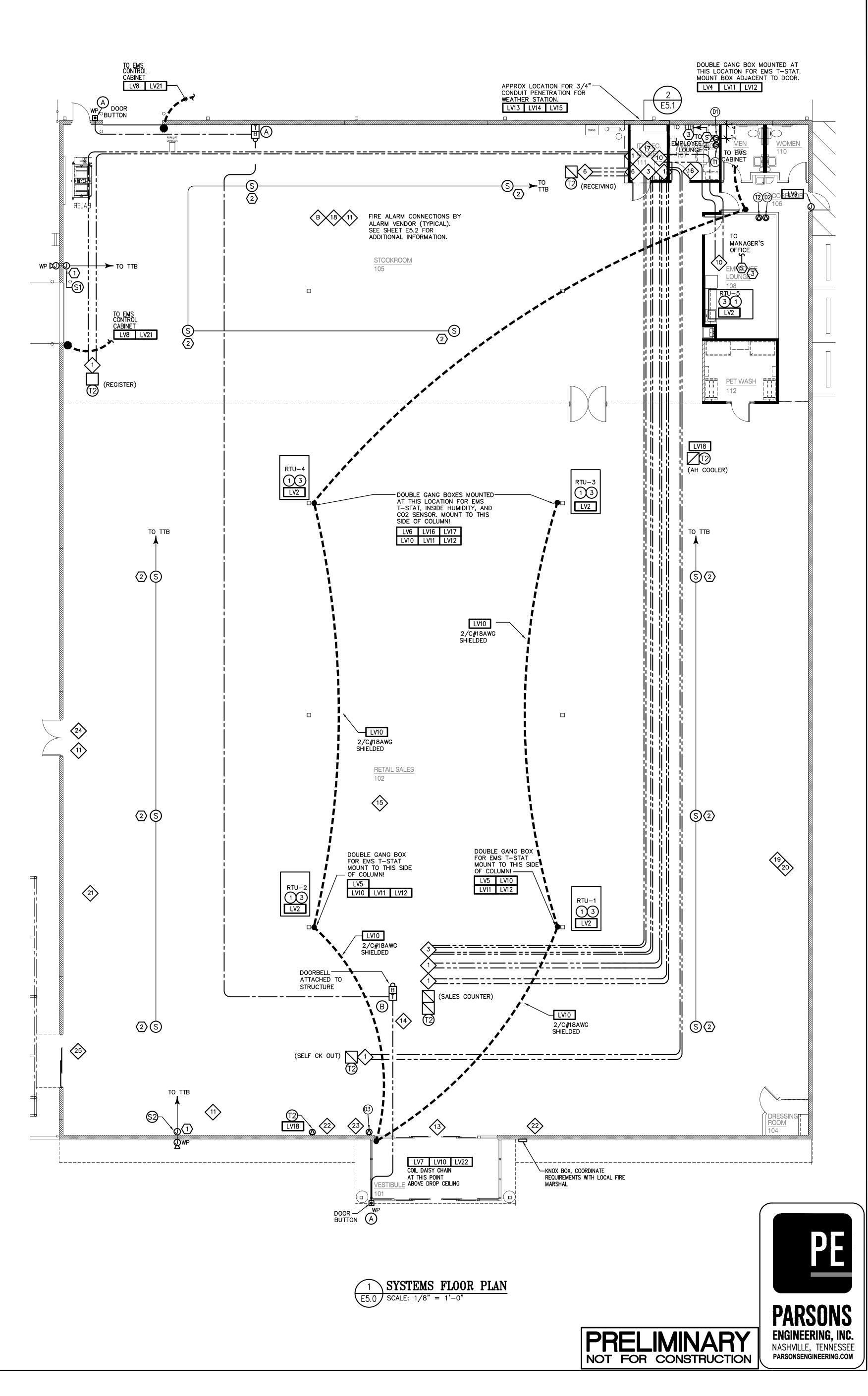
L TELEPHONE SERVICE ENTRANCE

GLEN P. C	DXFORD
ARC	HITECT
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	J
	-
TRACTOR SUPPLY	COMPANY
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NORTH CAR	OLINA
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Job Number:	2360
Date:	03.22.2024
Revisions:	
Revisions: Revisions:	
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Revisions:	D & DETAILS



2 ENLARGED PLAN – IT ROOM E5.0 SCALE: 1/4" = 1'-0"

SEE SHEET E5.1 FOR NOTES ASSOCIATED WITH THIS SHEET.



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SYST	EMS FLOOR PLAN
Sheet Number:	E5.0
	_

LVW VENDOR. THIS INCLUDES THE DOOR BELLS. GC'S ARE RESPONSIBLE TO COMMUNICATE, TO MANAGE, AND TO INCLUDE THIS IN THEIR COSTS. Cable Specifications:

Maximum cable length shall not exceed 330 feet. Do not route cables over or touching a fluorescent light. Cross over fluorescent lights perpendicular to the length of the fixture. All cables shall be supported from the ceiling joist above. Do not lay cables on the grid of a drop ceiling. Type

Preface: This store will be wired for a future EMS system This contractor shall price in the base bid wiring. LV1 G.C. shall install a 2" EMT conduit into the top of the future EMS section of the unitized switchboard (hereafter referred to as the EMS cabinet) so as to provide EMS cable access to the panel without

having to route the cables past substantial line voltage wire.

one CAT5 Coble

- stubbed into the TSC space for low voltage wiring access.
- panel.
- installation of the RTU5 thermostat / future EMS control thermostat.
- newly installed LVW as mentioned above.
- double gang box. "Doubling up" the sensors in a 2 gang box is not acceptable.

- requirements with supplier/installer. See detail 12/E3.2.
- "TStat COMM".
- RTU #.
- of this cable "OA TEMP".
- of this cable "OA HUMID".
- of this cable "OUTDOOR LIGHT LEVFI".
- "INSIDE HUMID #1" and, if installed, "INSIDE HUMID #2".
- LV17 coil at both ends. Label both ends of this cable "CO2".
- CABLE IN THE APPROXIMATE LOCATION.
- interface" on the telephone backboard.

- cabinet location.

### TSC LVW CONTROL WIRING AND EMS PREWIRE: ALL LOW VOLTAGE WIRING (LVW) (EXCEPT FOR TEMPORARY AND PERMANENT THERMOSTATS FOR HVAC) TO BE INSTALLED BY THE

ALL cable must be jacketed in a fire-retardant material, shielded (unless otherwise noted) and WHITE in color. In the event that a specific cable is not available, Contractor may substitute for a cable with more conductors (i.e. 2 conductor can be substituted with 3 conductor of the same ratings).

#### one twisted pair — 18ga — shielded — plenum rated — white jacket

LV2 G.C. shall provide a 3/4" (inch) trade size rigid conduit or seal tight from the RTU control panel

LV3 Tractor Supply shall provide EMS jack in one of 6- up boxes in the IT CLOSET and an orange patch, with white boot, cable connected to port 23 on the 2960 switch and run to port #46 on the patch

LV4 G.C. shall install a recessed single gang switch box in corridor next to manager's office - see mechanical drawings for exact placement. This box should be mounted 60" AFF. This box is for

LV5 G.C. shall install a double gang switch box (4 16" with the appropriate adapter plates) on the column closest to each sales floor RTU 1 and 2 for the purpose of installing the Thermostat /future EMS thermostat (see LV6 for specifics about RTU 3 and 4). If HVAC is needed to condition the building prior to the installation of the LVW by the TSC LVW vendor, the G.C. is to make HVAC units operable using temporary bi-metal thermostats to be hung in return air duct. This allows for conditioning of the building temporarily until the TSC LVW vendor installs permanent LVW per the timing and action calendar contained within the set of plans. Once the LVW vendor installs the LVW, the G.C. is responsible to remove the temporary bi-metal thermostats and make final connections of the thermostats to the

LV6 G.C. shall install 3 double gang switch boxes (4 11/16" with the appropriate adapter plates) on the column closest to RTU 3 and 4. These 3 boxes shall be mounted vertically; one above the other, separated by no less than 6" with the bottom box mounted at a height of approximately 7' 6" AFF and MUST be mounted to the surface of the column that faces the center of the building so as to shield the sensor from direct supply air. A quantity of (2) 1" (inch) conduits shall be installed above & between the boxes so as to provide a path for continuous wire pull from the overhead into the bottom most box. These boxes are for (from top to bottom) the installation of the CO2 sensor, the humidity sensor, and the RTU thermostat / future EMS thermostat in the bottom box each of which requires a dedicated

LV7 G.C. shall install a single gang box and a 3/4" EMT conduit for the vestibule Unit Heater and the greenhouse's Unit Heater. The conduits shall be installed from the ceiling deck to each unit heater's thermostat designated mounting location in the vestibule and stockroom. G.C. is to make each unit heater operate using the thermostats provided with the unit heaters and installed wiring.

LV8 G.C. shall install a 3/4" EMT conduit from the ceiling deck to 12" (inches) AFF so as to provide future EMS cable access for routing the LV cable from above the dock door to the finished floor. The conduit is to be installed directly adjacent to the dock door, within 2" (inches) of the rollup door track.

LV9 J-box for power to the series 800 power supply mounted above the ceiling in line with the hinge side of the door. Provide a 1/2" conduit from the power supply to the electric power transfer device (PT-5) of the door frame, concealed mortise mount. Provide and pull two #18 AWG wire from the power supply to the power transfer device and into the door. Contractor to complete wiring and connection of the delayed rim exit device after new door and rim exit hardware is installed. Coordinate all

LV10 LVW vendor shall install a total of (1) 18/2 SHIELDED plenum cable. The cable shall be pulled continuous from the future "EMS Cabinet" in the electrical switchgear to each Unit Heater's & RTU's thermostat gang boxes location (see LV5 and LV6 for specifics) in turn (Daisy Chain) starting with the Unit Heater / RTU thermostat mounting location closest to the electrical room. The wire shall be pulled into the RTU's designated gang box, leaving a 5' coil. Label both un-spliced ends of this cable pull as

[LV11] LVW vendor shall install a total of (1) 18/10 NON-SHIELDED plenum cable. The cable shall be pulled from each RTU's control cabinet to the RTU specific thermostat gang box, leaving a 5' coil at both ends. Label both ends of this cable "RTUx CONTROL", where x is the RTU #.

LV12 LVW vendor shall install a total of (1) 18/10 NON-SHIELDED plenum cable. The cable shall be pulled from each RTU's supply hard air duct, just below ceiling, to the corresponding RTUs thermostat gang box, leaving a 10' coil at both ends. Label both ends of this cable "RTUx SUPPLY", where x is the

LV13 LVW vendor shall install a total of (1) 18/10 NON-SHIELDED plenum cable. The cable shall be pulled from the EMS cabinet to the future "WeatherStation", leaving a 5' coil at both ends. Label both ends

LV14 LVW vendor shall install a total of (1) 18/10 NON-SHIELDED plenum cable. The cable shall be pulled from the EMS cabinet to the future "WeatherStation", leaving a 5' coil at both ends. Label both ends

LV15 LVW vendor shall install a total of (1) 18/10 NON-SHIELDED plenum cable. The cable shall be pulled from the EMS cabinet to the future "WeatherStation", leaving a 5' coil at both ends. Label both ends

LV16 For each indoor humidity sensor specified, the LVW vendor shall install a total of (1) 18/4 NON-SHIELDED plenum cables. The cables shall be pulled from the EMS cabinet to the top single gang box installed as per note LV6, leaving a 5' coil at both ends. Label both ends of this cable

LVW vendor shall install a total of (1) 18/2 NON-SHIELDED plenum cable. The cables shall be pulled from the EMS cabinet to the next to the top single gang box installed as per note LV6, leaving a 5'

LV18 LVW vendor shall install a total of (1) 18/2 NON-SHIELDED plenum cable in 1/2" conduit. The cable shall be pulled from the EMS cabinet to the vaccine case, leaving a 5' coil at both ends. Label both ends of this cable "VACCINE TEMP". Coordinate with the GC to determine the exact location. NOTE: IN THE EVENT THAT THE FINAL LOCATION OF THE ANIMAL HEALTH CASE IS UNKNOWN, LEAVE A 50' COIL OF

LV19 LVW vendor shall install a total of (1) 18/4 NON-SHIELDED plenum cable. The cables shall be pulled from the EMS cabinet to the alarm installer's junction box labeled "EMS/SI ALARM INTERFACE" (located on the telephone board, beside the security alarm panel), leaving a 5' coil of each at both ends. Label both ends of each these cables "OCCUPANCY" and "ALL LIGHTS ON" respectively. If the security system installer has not installed this junction box, install and label these cables leaving a 15' loop of each at the ceiling joist on the vicinity of the building security system equipment.

LV20 ALARM VENDOR shall install a total of two twisted pair, 18ga plenum cables (Windy City # 002320-S or equivalent). The cables shall be pulled from the Security Panel to the junction box labeled "EMS/SI ALARM INTERFACE" (located on the telephone board, at the designated location beside the security alarm panel). ALARM VENDOR to terminate this wiring to the appropriate security system "ARM/DISARM" and "ALARM" outputs to the corresponding terminals within the "EMS/SI Alarm interface" junction box (installed by the LVW vendor). If the LVW Vendor has not installed this junction box, ALARM VENDOR to install and label their cables leaving a 5' loop at the designated location of the EMS/SI ALARM

LV21 LVW vendor shall install a total of (1) 18/2 NON-SHIELDED plenum cable. The cable shall be pulled from the EMS cabinet through the EMT conduit installed for dock door monitoring, leaving a 5' coil at both ends. Label both ends of this cable "DOCK DOOR". This is used for future EMS monitoring and is in addition to the cabling required for the security system door monitoring. This EMS cable should be pulled down through the conduit that is installed to monitor the dock door via the EMS (see LV8). Coordinate with the GC to determine the exact location. NOTE: IN THE EVENT THAT THE FINAL LOCATION OF THE DOCK DOOR EMS CONDUIT IS UNKNOWN, LEAVE A 50' COIL OF CABLE ABOVE THE DOCK DOOR.

LV22 LVW Vendor to install a total of (1) 18/4 NON-SHIELDED plenum cable for each unit heater. The cable shall be pulled from each Unit Heater's control cabinet to the Unit Heater's specific thermostat gang box, leaving a 5' coil at both ends. Label both ends of this cable "UH Control". Note: In the event that the location of the unit heater is unknown, leave a 50' coil of cable at this location.

[LV23] LVW VENDOR to provide a CAT5 cable run from the patch panel in the IT CLOSET to the future EMS

### PUBLIC ADDRESS SYSTEM:

GENERAL NOTES:

- A. TSC SHALL FURNISH & INSTALL THE PUBLIC ADDRESS SYSTEM B. LVW VENDOR SHALL PROVIDE ALL SPEAKER WIRING. SPEAKER WIRING SHALL BE
- 18AWG / 2 CONDUCTOR WITH WHITE JACKETS. C. ALL CABLES ROUTED EXPOSED IN CEILING JOIST SHALL BE RUN PERPENDICULAR AND PARALLEL TO THE CEILING JOIST ORIGINATING FROM TELEPHONE BOARD.
- D. PUBLIC ADDRESS SYSTEM DEVICES SHOWN FOR REFERENCE ONLY. GENERAL CONTRACTOR SHALL FURNISH AND INSTALL JUNCTION BOXES AND RACEWAYS PER THE PUBLIC ADDRESS SYSTEM VENDOR RECOMMENDATIONS. PUBLIC ADDRESS SYSTEM DEVICES FURNISHED AND INSTALLED BY THE SYSTEM VENDOR.
- E. LVW VENDOR SHALL BE RESPONSIBLE FOR DETERMINING IF CABLES SHALL BE PLENUM RATED TO MEET CODES.
- PUBLIC ADDRESS SPEAKER CABLE- (S1) (S2)
- 1. PROVIDE A BLACK 4" X 4" WEATHERPROOF JUNCTION BOX AT THE EXTERIOR SPEAKER LOCATION MOUNTED 13'-0" AFF OR ABOVE THE AWNING. PROVIDE A INTERIOR WALL. COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS WITH THE ARCHITECTURAL DRAWINGS DRIOD TO POULOU IN ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. 2. PROVIDE JUNCTION BOX AND CONDUIT (1" EMT) FROM EXTERIOR SPEAKER
- TO THE RETAIL SALES INTERIOR WALL.

### KEYED NOTES:

- (1) JUNCTION BOX ON WALL WITH 1" CONDUIT STUBBED OUTSIDE FOR SPEAKER MOUNTING. COORDINATE EXACT REQUIREMENTS WITH PUBLIC ADDRESS SYSTEM PRIOR TO ROUGH-IN. ROUTE ONE TWO CONDUCTOR #18 AWG SPEAKER WIRE FROM JUNCTION BOX TO TELEPHONE BOARD. COIL 6 FEET OF SPEAKER WIRE OUTSIDE OF BUILDING AT PROPOSED SPEAKER LOCATION. PROVIDE 20 FEET OF CABLE AT THE CEILING ABOVE THE TELEPHONE BOARD. COIL 15 FEET OF CABLE AND SUSPEND 10 FEET AFF. TYPICAL OF 2 LOCATIONS.
- $\langle 2 \rangle$  LOCATION IN BAR JOIST FOR PUBLIC ADDRESS SPEAKER. ROUTE ONE TWO CONDUCTOR #18 AWG SPEAKER WIRE BETWEEN LOCATIONS LEAVING SIX FEET OF COILED WIRING AT EACH LOCATION FOR CONNECTION OF SPEAKERS. COORDINATE EXACT REQUIREMENTS WITH PUBLIC ADDRESS SYSTEM PRIOR TO ROUGH-IN. HOME RUN SPEAKER CABLE FROM LAST DEVICE LOCATION AS SHOWN AND PROVIDE 20 FEET OF CABLE AT THE CEILING ABOVE THE TELEPHONE BOARD. COIL 15 FEET OF CABLE AND SUSPEND AT 10 FEET AFF.
- $\langle 3 \rangle$  Location in suspended ceiling for public address speaker. Route one TWO CONDUCTOR #18 AWG SPEAKER WIRE BETWEEN LOCATIONS LEAVING SIX FEET OF COILED WIRING AT EACH LOCATION FOR CONNECTION OF SPEAKERS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECTURAL REFLECTED CEILING PLAN AND THE PUBLIC ADDRESS SYSTEM INSTALLER PRIOR TO ROUGH-IN. HOME RUN SPEAKER CABLE FROM LAST DEVICE AS SHOWN AND PROVIDE 20 FEET OF CABLE AT THE CEILING ABOVE THE TELEPHONE BOARD. COIL 15 FEET OF CABLE AND SUSPEND AT 10 FEET AFF.
- LOW VOLTAGE DOOR BELL SYSTEM:
- <u>GENERAL NOTES:</u> A. ALL LOW VOLTAGE WIRING BY LVW VENDOR (DOOR BELL, ETC.)
- SHALL BE 18AWG / 2 CONDUCTOR WITH WHITE TEFLON JACKET IN CONDUIT TO CEILING AND EXPOSED ALONG CEILING STRUCTURE.
- B. ALL CABLES ROUTED EXPOSED IN CEILING JOIST SHALL BE RUN PERPENDICULAR
- AND PARALLEL TO THE CEILING JOIST. C. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING IF CABLES SHALL BE PLENUM RATED TO MEET CODES.
- KEYED NOTES:
- (A) ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AN EDWARDS 55-4G5 DOOR BELL AND AN EDWARDS 592 TRANSFORMER AT TWO LOCATIONS SHOWN. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AN EDWARDS 250 PUSHBUTTON TO CONTROL BOTH DOOR BELLS. PUSHBUTTON SHALL BE INSTALLED IN A WEATHERPROOF ENCLOSURE. TEST TO ASSURE WORKING SYSTEM. MOUNT TRANSFORMER & BELL AT 14'-0" AFF.
- (B) EDWARDS 55-4G5 DOOR BELL @ CASH REGISTER & CONNECT TO SYSTEM AS NECESSARY. COORDINATE WITH G.C. FOR EXACT LOCATION OF BELL.
  - PUBLIC ADDRESS SYSTEM LEGEND
- (S) OPEN BARJOIST MOUNTED SPEAKER
- (S) CEILING BARJOIST MOUNTED SPEAKER
- (J) PUBLIC ADDRESS SYSTEM JUNCTION BOX

JUNCTION BOX.

UWP EXTERIOR WEATHERPROOF PUBLIC ADDRESS SYSTEM

### LOW VOLTAGE WIRING SYSTEM LEGEND

 PUBLIC ADDRESS (PA) SYSTEM WIRING
 DATA/TELEPHONE SYSTEM WIRING
 EMS SYSTEM WIRING
EMS SYSTEM WIRING
 DOOR BELL SYSTEM WIRING

GENERAL NOTES:

 $\langle$  b  $\rangle$ all conduits installed in the stockroom area shall be  $\checkmark$  installed as tight to roof deck as allowed by code.

#### DATA SYSTEM:

- GENERAL NOTES: A. TSC SHALL FURNISH & INSTALL ALL POS, PA & PHONE SYSTEMS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL
- BACKBOXES AND CONDUITS. LVW VENDOR RESPONSIBLE FOR WIRING. B. LVW VENDOR SHALL PROVIDE ALL DATA AND TELEPHONE WIRING WITH WHITE
- JACKETS. ALL PHONE AND DATA CABLE MUST BE CAT5E CERTIFIED, NO EXCEPTIONS. C. ALL CABLES ROUTED EXPOSED IN CEILING JOIST SHALL BE RUN PERPENDICULAR AND
- PARALLEL TO THE CEILING JOIST. D. LVW VENDOR SHALL BE RESPONSIBLE FOR DETERMINING IF CABLES SHALL BE
- PLENUM RATED TO MEET CODES. E. ROUTE CAT5E CABLES TO IT ROOM TO CEILING SPACE ABOVE THE RED POWER
- RECEPTACLE (CIRCUIT B-24). REFERENCE DRAWING E2.0 FOR RECEPTACLE LOCATION. REFER TO KEYED NOTE '5' BELOW. TELEPHONE CABLE - (T1) (T2)
- 1. PROVIDE STANDARD OUTLET BOXES AT ALL TELEPHONE LOCATIONS WITH 3/4" CONDUIT (WITH PULL WIRE) TO ACCESSIBLE CEILING AREA OR TO BAR JOIST. DATA CABLE–(D1) (D2) (D3)
- 1. PROVIDE STANDARD OUTLET BOXES AT ALL DATA LOCATIONS WITH 3/4" INCH CONDUIT (WITH PULL WIRE) TO ACCESSIBLE CEILING AREA OR TO BAR JOIST.

#### KEYED NOTES:

- ONE AND 'REG2A' AND 'REG2B' FOR REGISTER 2. LABEL ADDITIONAL REGISTER CABLES 'REG3A' AND 'REG3B', ETC. AS REQUIRED FOR ADDITIONAL REGISTERS.
- 2 NOTE NOT USED.
- 'SDB', 'SDC', 'SDD'.
- 'RDA'. 'RDB'. 'RDC'. 7 > NOTE NOT USED.
- 9 LVW VENDOR SHALL ROUTE THREE CAT5E CABLES FROM THE IT ROOM AT
- LVW VENDOR SHALL ROUTE TWO CAT5E CABLES FROM THE BREAKROOM AT THE CEILING ABOVE THE POWER OUTLET TO THE IT ROOM ABOVE THE RED 'LRA' AND 'LRB'.
- 11 LVW SHALL ROUTE SIX CAT5E DATA CABLES (TWO PER ACCESS POINT) TSC FOR EXACT LOCATION OF EACH ACCESS POINT.
- <12> NOTE NOT USED.
- PROVIDE LABEL AT BOTH ENDS. LABEL CAM1.  $\langle 14 \rangle$  LVW VENDOR SHALL ROUTE CAT5E CABLE FROM REAR OF REGISTER BAYS
- FEET AFF. PROVIDE LABEL AT BOTH ENDS. LABEL CAM2.  $\langle 15 \rangle$  LVW VENDOR SHALL ROUTE CAT5E CABLE FROM POD AREA CENTERED ON
- FEET AFF. PROVIDE LABEL AT BOTH ENDS. LABEL CAM3.  $\langle$ 16angle LVW VENDOR SHALL ROUTE CAT5E CABLE FROM MANAGERS OFFICE TO THE
- PROVIDE LABEL AT BOTH ENDS. LABEL CAM4.  $\langle 17 \rangle$  LVW VENDOR SHALL ROUTE CAT5E CABLE FROM IT CLOSET TO THE IT
- PROVIDE LABEL AT BOTH ENDS. LABEL CAM5.  $\langle$ 18angleLVW VENDOR SHALL ROUTE CAT5E CABLE FROM RECEIVING AREA TO THE IT
- PROVIDE LABEL AT BOTH ENDS. LABEL CAM6.  $\langle 19 \rangle$  LVW VENDOR SHALL ROUTE CAT5E CABLE FROM THE 90 DEGREE CORNER
- 10 FEET AFF. PROVIDE LABEL AT BOTH ENDS. LABEL CAM8.  $\langle 20 \rangle$  LVW vendor shall route 16/2 cable for public view monitor from
- ENDS. LABEL PVM1.  $\langle 21 \rangle$  LVW VENDOR SHALL ROUTE CAT5E CABLE FROM AREA BETWEEN SIDE LOT
- ENDS. LABEL CAM9. 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF.
- FEET AFF. PROVIDE LABEL AT BOTH ENDS. LABEL EAS1.
- $\langle$ 24angle LVW VENDOR SHALL ROUTE CAT5E CABLE FOR EAS FROM SIDE LOT 10 FEET AFF. PROVIDE LABEL AT BOTH ENDS. LABEL EAS2.
- $\langle 25 \rangle$  LVW VENDOR SHALL ROUTE CAT5E CABLE FOR EAS FROM LIVE GOODS

#### KEYED NOTES:

- (1) ALL ROOFTOP EQUIPMENT CONNECTIONS SHALL BE MADE NOT ACCEPTABLE.
- DEDICATED 120 VOLT POWER CIRCUIT.
- (3) TO HVAC/FAN CONTROLLER FOR SHUTDOWN OF UNIT UPON
- LOCATED WITHIN THREE FEET OF CONTROLLER.

#### LVW RESPONSIBILITY AND TIMING PLAN

PROTOTYPES			
ACTION	BY WHO	WHEN	SPECIAL NOTES
STORE ADDED TO SOS	TSC REAL ESTATE	1ST MONDAY OF EACH MONTH	
CODES AND BUILDING TYPE (CONTACT TSC PM AS NECESSARY) RESEARCHED, BA AND FA PLANS COMPLETED	JCI/ADT	WITHIN 30 DAYS AFTER ADDED TO THE SOS	PLEASE BE SURE TO VERIFY HVAC SYSTEMS (GROUND MOUNT VS. ROOF MOUNT, ETC) SECURITY SYSTEMS CONTRACTOR TO IDENTIFY EXIST. HVAC UNITS BY LL PER THE CHECKLIST
SECURITY SYSTEMS CONTRACTOR COMPLETES PLANS SENDS TO RICH WOOD AND TSC PM	JCI/ADT	ON 30TH DAY AFTER ADDED TO SOS	
PLANS FORWARDED TO LL AND/OR HIS ARCHITECT IF KNOWN	TSC PM	31 DAYS	
TSC TO REVIEW LL PLANS FOR ACCURACY	TSC PM	WHEN SENT BY LL PRIOR TO CONSTRUCTION START	
LL TO COMPLETE ALL LVW SOW PER PLANS USING TSC VENDOR	MERCURY TECH	NO LESS THAN 2 WEEKS PRIOR TO FD FROM 2 WEEKS	
SECURITY SYSTEMS CONTRACTOR TO INSTALL THEIR EQUIPMENT AND MAKE TERMINATIONS	JCI/ADT	STARTING APPROXIMATELY 3 WEEKS FROM FD TO BE DONE LAST AS LVW VENDOR COMPLETES NO LATER THAN 2 WEEKS PRIOR TO FD.	
INSTALLATION OF PA SYSTEM, PHONE SYSTEM, SPEAKERS, OUTSIDE HORNS, PHONES, PATCH PANEL, AP'S W/ ANTENNAS	STAN KOLIC / MERCURY TECH	MONDAY AND TUESDAY BEFORE FD	
INSTALLATION OF POS SYSTEMS AT ALL LOCATIONS AND TESTING OF AP SYSTEM	STAN KOLIC / AGILYSIS	TUESDAY BEFORE FD	

ON DEVELOPER OWNED PROJECTS, DEVELOPER IS RESPONSIBLE FOR 100 % OF COST OF LVW VENDOR AND WIRING.

1 LVW VENDOR SHALL ROUTE TWO CAT5E CABLES FROM REGISTER TO THE IT ✓ ROOM. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE AS REQUIRED FOR EACH ADDITIONAL REGISTER. PROVIDE LABELS FOR EACH CABLE ON BOTH ENDS. LABEL CABLES 'REG1A' AND 'REG1B' FOR REGISTER

 A STATE AND A STATE AN THE IT ROOM. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABELS FOR EACH CABLE ON BOTH ENDS. LABEL CABLES 'SDA',

 $\langle 5 \rangle$  LVW VENDOR SHALL ROUTE CAT5E CABLES TO IT ROOM TO CEILING SPACE  $\checkmark$  above the red power receptacle (circuit b–24). Reference drawing E2.0 FOR RECEPTACLE LOCATION. REFER TO GENERAL NOTE 'E' ABOVE.  $\langle 6 \rangle$ LVW VENDOR SHALL ROUTE THREE CAT5E CABLES FROM RECEIVING DESK TO THE IT ROOM. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABELS FOR EACH CABLE ON BOTH ENDS. LABEL CABLES

 $\langle 8 \rangle$  LVW VENDOR SHALL ROUTE THREE CAT5E CABLES FROM IT ROOM ABOVE  $\checkmark$  THE RED POWER RECEPTACLE (CIRCUIT B-24) TO THE TELEPHONE BOARD. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE AS REQUIRED FOR EACH ADDITIONAL REGISTER. PROVIDE LABELS FOR EACH CABLE ON BOTH ENDS. LABEL CABLES 'DSL', 'TIA' AND 'TIB'.

✓ THE DATA WALL OUTLET TO THE TELEPHONE BOARD. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABELS FOR EACH CABLE ON BOTH ENDS. LABEL CABLES 'DIAL TONE', 'FAX', AND 'MUSIC ON HOLD'.

POWER RECEPTACLE. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABELS FOR EACH CABLE ON BOTH ENDS. LABEL CABLES

BACK TO IT ROOM. SEE ACCESS POINT SITE SPECIFIC MAP PROVIDED BY

(13) LVW VENDOR SHALL ROUTE CAT5E CABLE FROM MAIN ENTRANCE TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF.

TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10

TOOLS TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT

IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF.

CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEETOF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF.

CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF.

OF BOOTS TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT

THE 90 DEGREE CORNER OF BOOTS TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABEL AT BOTH

ENTRANCE AND FRONT OF BUILDING TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABEL AT BOTH

22 LVW VENDOR SHALL ROUTE CAT5E CABLE FROM SIDE OF VESTIBULE THAT WILL DISPLAY POWER EQUIPMENT TO THE IT CLOSET. VERIFY LOCATION ON SITE, PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL PROVIDE LABEL AT BOTH ENDS. LABEL CAM10.

 $\langle 23 \rangle$  LVW VENDOR SHALL ROUTE CAT5E CABLE FOR EAS FROM ENTRANCE TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10

 $\checkmark$  entrance to the it closet. Provide 20 feet of cable at both ends AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT

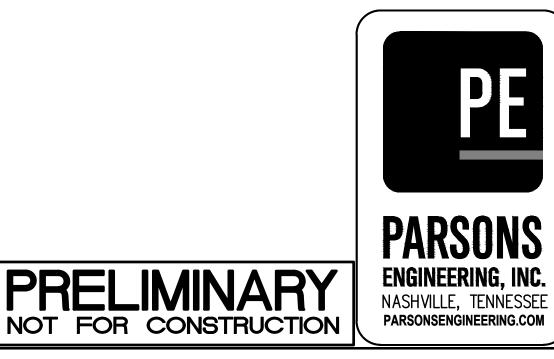
CENTER ENTRANCE TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABEL AT BOTH ENDS. LABEL EAS3.

THROUGH THE UNIT ROOF CURB. ROOF PENETRATIONS ARE

(2) FIRE ALARM CONTROL PANEL TO BE MOUNTED ON TELEPHONE BOARD. REFERENCE DETAIL 1/E4.0. CONNECT TO

ACTIVATION OF GENERAL ALARM. CONTROLLER TO BE FURNISHED BY CONTRACTOR. RELAY MODULE TO BE

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	<b>7</b>
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