

TSC TRACTOR SUPPLY CO.

COMBO PROJECT
1821 EAST HWY 40
BALLARD, UT 84066

ABBREVIATION LIST

ABOVE FINISHED FLOOR	AFF	LAMINATED PLASTIC	LAM
ADJUSTABLE	ADJ	LANDLORD	LL
ALUMINUM	ALUM	LEFT-HAND	LH
ANCHOR BOLT	AB	LONG LEG HORIZONTAL	LLH
APPROXIMATELY	APPROX	LONG LEG VERTICAL	LLV
ARCHITECTURAL	ARCH	LONG	LG
ATT	@	MANHOLE	MH
BEAM	BM	MANUFACTURER	MFR
BEARING	BRG	MASONRY OPENING	MO
BLOCKING	BLKG	MATERIAL	MATL
BOARD	BD	MAXIMUM	MAX
BOTTOM	BTM or B/	MECHANICAL	MECH
BUILDING	BLDG	METAL	MTL
CATCH BASIN	CB	MINIMUM	MIN
CEILING	CLNG	MISCELLANEOUS	MISC
CENTER TO CENTER	C/C	MOUNTED	MTD
CENTERLINE	CL	NOT APPLICABLE	NA
CLEAN CUT	CO	NOT IN CONTRACT	NIC
COLUMN	COL	NOT TO SCALE	NTS
CONCRETE MASONRY UNIT	CMU	ON CENTER	OC or o.c.
CONCRETE	CONC	OPENING	OPNG
CONSTRUCTION	CONST	OPPOSITE	OPP
CONTINUOUS	CONT	OUTSIDE DIAMETER	OD
CONTROL JOINT	CJ	OVERFLOW ROOF DRAIN	ORD
CORNER	CRS	PAINT	PT
DIMETER	DIA	PAIR	PR
DIAMETER	DIM	PLASTIC LAMINATE	PLAM
DOWN	DN	PLATE	PL
DOWNSPOUT	DS	PLUS OR MINUS	+/
DRAWING	DWG	PLYWOOD	PLWD
EACH FACE	EF	POINT OF SALE	POS
EACH WAY	EW	PRESERVATIVE TREATED	PPT
EACH	EA	PROPERTY LINE	P/L
ELECTRIC	ELEC	QUARRY TILE	QT
ELECTRIC WATER COOLER	EWC	RADIUS	RAD or R
ELEVATION	ELEV	RAIN WATER CONDUCTOR	RWC
EQUAL	EQ	REINFORCED	REINF
EXISTING	EXIST	REQUIRED	REQD
EXPANSION JOINT	EJ	REVISION	REV
EXTERIOR	EXT	RIGHT HAND	RH
EXTERIOR INSULATION & FINISH SYSTEM	EIFS	RIGHT OF WAY	ROW
FIRED REINFORCED PLASTIC	FRP	ROOF DRAIN	RD
FLASH	FIN	SECTION	SECT
FINISHED FLOOR	FF	SHEET	SHT
FIRE EXTINGUISHER CABINET	FEC	SIMILAR	SIM
FIRE RETARDANT TREATED	FRT	SPECIFICATION	SPEC
Fixture	FIXT	SQUARE FEET	SF
FLOOR	FLR	STAINLESS STEEL	SS
FLOOR GRAN	FD	STANDARD	STD
GALVANIZED	GALV	STEEL	STL
Gauge	GA	STRUCTURAL	STRUCT
GENERAL CONTRACTOR	GC	SUSPENDED	SUSP
GLASS	GL	TELEPHONE	TEL
GLASS FIBER REINFORCED CONCRETE	GFRC	TONGUE AND GROOVE	T&G
GLASS FIBER REINFORCED GYPSUM	GFRG	TOP OF	TO
GYPSUM BOARD	GYP BD	TOP OF JOIST	TOJ
HANDICAPPED	HCPD	TOP OF MASONRY	TOM
HARDWOOD	HDWD	TOP OF STEEL	TOS
HEATING/VENTILATING/AIR CONDITIONING	HVAC	TOPICAL	TOP
HEAVY DUTY	HD	UNLESS NOTED OTHERWISE	UNO
HOLLOW CORE	HC	VERTICAL	VERT
HOLLOW METAL	HM	VINYL COMPOSITION TILE	VCT
HORIZONTAL	HORIZ	VINYL TILE	VT
HOT BIBB	HB	VINYL WALL COVERING	VVC
HOT WATER HEATER	WH	WALL COVERING	WC
HOUR	HR	WELDED WIRE FABRIC	WWF
INSIDE DIAMETER	ID	WITH	WI
INSULATION	INSUL	WITHOUT	WIO
INTERIOR	INT	WOOD	WD
JOIST BEARING	JB	WORK POINT	WP

GENERAL NOTES (WHERE APPLICABLE)

- THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, AIA A-201, 2017 IS APPLICABLE TO THE PROJECT AND INCLUDED HERE-IN BY REFERENCE.
- DO NOT SCALE DRAWINGS. REQUEST CLARIFICATION FROM THE ARCHITECT TO RESOLVE DISCREPANCIES OR TO SUPPLY ADDITIONAL INFORMATION.
- INTERIOR DIMENSIONS ARE TO FACE OF GYPSUM BOARD - U.N.O.
- FINISH FLOOR ELEVATIONS SHALL BE FROM TOP OF CONCRETE FLOOR SLAB OR TOP OF FLOOR SHEATHING WHERE APPLICABLE - U.N.O.
- WORK IS TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE CODES, CONDITIONS STATED ON THE PERMIT DOCUMENTS, LOCAL ORDINANCES, THE U.S. DEPARTMENT OF JUSTICE 2010 ADA STANDARDS, AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION (AHJ).
- WOOD NOT CLASSIFIED AS INTERIOR FINISH MATERIAL SHALL BE FIRE RETARDANT TREATED. USE AN EXTERIOR GRADE FRT PRODUCT IN EXTERIOR WALL CONSTRUCTION, ROOF RELATED CONSTRUCTION AND FLASHING CONDITIONS.
- WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE PRESERVATIVE TREATED.
- WHERE EXISTING STRUCTURAL STEEL IS PROTECTED WITH A FIREPROOFING MATERIAL, PROTECT DURING DEMOLITION, ALTERATION AND CONSTRUCTION. PATCH AND REPAIR ANY MISSING OR DAMAGED FIREPROOFING TO MAINTAIN PROTECTION OF THE STRUCTURE.
- AT PENETRATIONS THROUGH FIRE RATED ASSEMBLIES, PROVIDE PROTECTION MEETING THE REQUIREMENTS OF ASTM E-814 AND BEARING THE APPROPRIATE U.L. LABEL FOR THE CONDITION.
- DESIGN & SELECTION OF SUPPORTS, BRACES, ANCHORS, ATTACHMENTS AND RELATED FASTENERS, UNLESS SHOWN ON THE DRAWINGS OR IN THE SPECIFICATIONS, IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR, UTILIZING INDUSTRY STANDARD MATERIALS AND METHODS SUITABLE TO THE CONDITION.
- WALL AND CEILING MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO REGISTERS, DIFFUSERS, GRILLES, SPEAKERS, CLEAN-OUTS AND COVER PLATES, WHETHER FACTORY PRE-FINISHED OR NOT, WHICH DO NOT MATCH THE ADJACENT WALL OR CEILING COLOR SHALL BE FIELD PAINTED, UNLESS OTHERWISE NOTED. COLOR AND FINISH TO BE APPROVED BY THE ARCHITECT.
- COMPLY WITH SPECIAL WORKING CONDITIONS RELATING TO THE PROJECT, INCLUDING BUT NOT LIMITED TO REQUIREMENTS FOR TEMPORARY PROTECTION, TRASH MANAGEMENT, NOISE, LIGHT, DUST AND POLLUTION CONTROL, AND LIMITATIONS ON WORKING HOURS.

CONTACTS

SR. CONSTRUCTION MANAGER

TRACTOR SUPPLY CO.
5401 VIRGINIA WAY BRENTWOOD, TN 37027
CONTACT: JUSTIN WOOD
PH: 615-427-1046
E: jwood@tractorsupply.com

CONSTRUCTION MANAGER

TRACTOR SUPPLY CO.
5401 VIRGINIA WAY BRENTWOOD, TN 37027
CONTACT: JULIE BANE
PH: 678-910-0036
E: jbane@tractorsupply.com

ARCHITECT

ONYX CREATIVE, INC.
25001 EMERY ROAD SUITE 400 CLEVELAND, OH 44128
CONTACT: COLLEEN KURNIAWAN
PH: 216-223-3246
E: ckurniawan@onyxcreative.com

GARDEN CENTER ENGINEER

HENDEE ENTERPRISES, INC.
9350 SOUTH POINT DR. HOUSTON, TX 77054
CONTACT: CRYSTAL GENOVESE
PH: 713-796-2322
E: crystalg@hendee.com

ENGINEER (MEP)

BLUESTREAK CONSULTING
25001 EMERY ROAD SUITE 400 CLEVELAND, OH 44128
CONTACT: RICHARD KNAPP
PH: 216-223-3294
E: rkapp@bluestreak-consulting.com

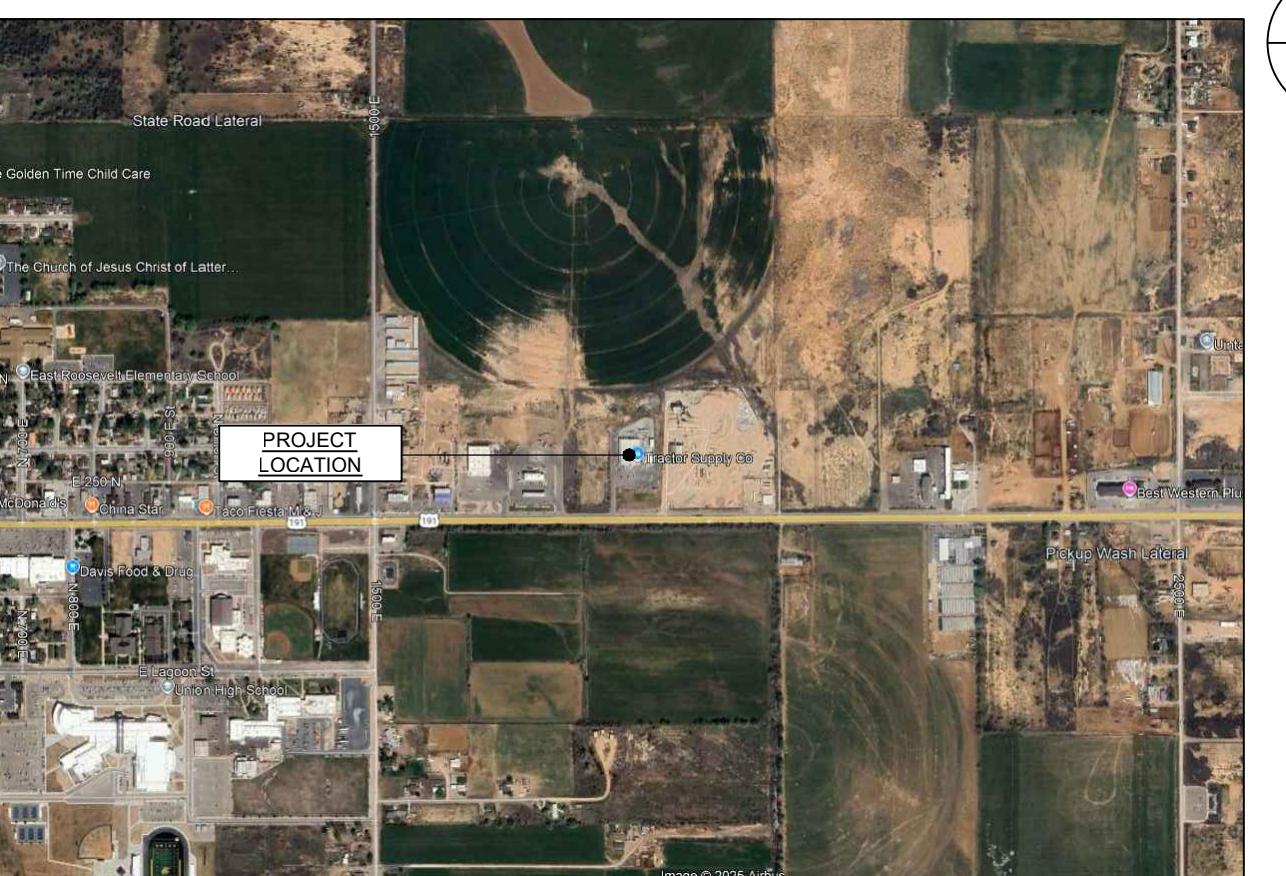
CIVIL ENGINEER

STRUCTURAL ENGINEER

BLUESTREAK CONSULTING
25001 EMERY ROAD, SUITE 400 CLEVELAND, OH 44128
CONTACT: NATE WILLARD
PH: 216-223-3200
E: nwillard@bluestreak-consulting.com

DRAWING INDEX

		REVISIONS
T1.0	COVER SHEET	
T1.1	VENDOR INFORMATION	
T1.2	GENERAL NOTES	
CIVIL		
C1	NOT USED	
C2	NOT USED	
ARCHITECTURAL		
AS1.0	SITE PLAN	
AS1.1	SITE DETAILS	
LS1.0	LIFE SAFETY PLAN	
D1.0	DEMOLITION PLAN	
A0.0	NOTES & DOOR / HARDWARE SCHEDULES	
A0.1	FINISH SCHEDULES	
A0.2	CONCRETE & EPOXY SPECIFICATION	
A1.0	FLOOR PLAN	
A1.1	OFFICE CORE PLAN, ELEV. & DETAILS	
A1.2	NOT USED	
A1.2a	NOT USED	
A1.3	PROPANE DETAIL & SPECIFICATIONS	
A1.4	ARCHITECTURAL DETAILS	
A1.5	NOT USED	
A2.0	Fixture Plan	
A2.1	PRE-FAB FIXTURE DETAILS	
A3.0	REFLECTED CEILING PLAN	
A5.0	INTERIOR ELEVATIONS & DETAILS	
A6.0	EXTERIOR ELEVATIONS	
Fixture & Racking Seismic Anchoring		
A9.0	NOT USED	
A9.1	NOT USED	
A9.2	NOT USED	
A9.3	NOT USED	
F1.0	NOT USED	
F2.0	NOT USED	
STRUCTURAL		
S1.0	STRUCTURAL DETAILS	
S2.0	STRUCTURAL PROPANE PLAN & DETAILS	
MECHANICAL & PLUMBING		
MP1.0	NOT USED	
P1.0	PLUMBING PLAN	
FIRE PROTECTION		
FP1.0	NOT USED	
ELECTRICAL		
E1.0	LIGHTING PLAN	
E2.0	POWER PLAN	
E2.1	PROPANE ELECTRICAL PLAN AND DETAILS	
E3.1	ELECTRICAL DETAILS & SPECIFICATIONS	



CONTRACTOR RESPONSIBILITIES

CONTRACTOR SHALL VERIFY EXISTING CONDITIONS ON SITE. DISCREPANCIES BETWEEN DRAWINGS AND EXISTING CONDITIONS AS WELL AS DISCREPANCIES BETWEEN LANDLORD WORK AND TSC WORK SHALL BE BROUGHT TO THE ATTENTION OF TSC AND ARCHITECT IN WRITING PRIOR TO BID SUBMISSION

CONTRACTOR SHALL FILL OUT THEIR OWN PUNCH LIST PRIOR TO T.S.C. P.M. ARRIVING TO COMPLETE THE PROJECT PUNCH FOR T.S.C. CONTRACTOR SHALL COMPLETE THE SELF-PUNCH AND SUBMIT WITHIN FIVE DAYS. T.S.C. P.M. WILL REVIEW AND COMPLETE THEIR OWN PUNCH AT WHICH TIME CONTRACTOR WILL HAVE SEVEN DAYS TO CORRECT ALL ITEMS.

ALL ROOF VENTS / PENETRATIONS ARE TO BE FLASHED AS RECOMMENDED BY ROOFING SYSTEM MANUFACTURER AND PREPARED BY LANDLORD'S ROOFING CONTRACTOR.

CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND THE APPLICABLE SCOPE OF PROJECT.

CHANGE ORDER POLICY

TRACTOR SUPPLY COMPANY SHALL NOT BE RESPONSIBLE FOR THE PAYMENT OF ANY WORK PERFORMED OR MATERIAL SUPPLIED BY THE CONTRACTOR OR ANY OF ITS SUB-CONTRACTORS, SUB-CONTRACTORS AND ANYONE CLAIMING BY THROUGH OR UNDER ANY OF THEM WHICH IS NOT IDENTIFIED IN WRITING AND SIGNED BY ONE OF THE FOLLOWING TRACTOR SUPPLY COMPANY PERSONNEL: VICE PRESIDENT OF REAL ESTATE, VICE PRESIDENT OF CONSTRUCTION, OR A CONSTRUCTION PROJECT MANAGER. NO ACTION, CONDUCT, OMISSION, PRIOR FAILURE, OR COURSE OF DEALING BY TRACTOR SUPPLY COMPANY SHALL ACT TO WAIVE, MODIFY, CHANGE OR ALTER THE REQUIREMENT THAT ALL WORK WHETHER BY CONTRACT, CHANGE ORDER OR CHANGE DIRECTIVE, MUST BE IN WRITING AND SIGNED BY THE PERSONNEL IDENTIFIED IN THIS PROVISION. ANY WORK PERFORMED OR MATERIAL PROVIDED BY THE CONTRACTOR, ANY OF ITS SUB-CONTRACTORS, SUB-CONTRACTORS CONTRARY TO THIS PROVISION SHALL BE AT ITS OWN RISK AND OWN EXPENSE AND TRACTOR SUPPLY COMPANY SHALL NOT BE OBLIGATED TO REIMBURSE OR PAY THE CONTRACTOR OR ANY OF ITS SUB-CONTRACTORS, SUB-CONTRACTORS FOR SAME.

DEFERRED SUBMITTALS

THE FOLLOWING DRAWINGS WILL BE SUBMITTED AT A LATER DATE:

1. GARDEN CENTER CANOPY SHOP DRAWINGS
2. PROPANE CANOPY SHOP DRAWINGS

NOTE: CONTACT DIRECTOR OF ARCHITECTURE TO OBTAIN MICROSOFT TEAMS LINK FOR DOWNLOAD OF STANDARD CRITERIA PLANS, DWG/CAD FILES OR PDFS, AND/OR ANY SUPPLEMENTAL INFORMATION INCLUDED WITH THE STANDARD CRITERIA PLAN RELEASE.

ERRC COMPLIANCE / TESTING

WHERE REQUIRED BY THE AHJ, CONTRACTOR SHALL ENGAGE AN INDEPENDENT EMERGENCY RESPONDER RADIO COVERAGE (ERRC) TESTING COMPANY TO VERIFY SIGNAL STRENGTH INSIDE OF BUILDING (AFTER THE COMPLETION OF CONSTRUCTION & PLACEMENT OF MERCHANDISE), INCLUDING ALL CRITICAL REQUIRED AREAS. IF SIGNAL STRENGTH IS NOT ADEQUATE TO THE AHJ STANDARDS, CONTACT AOR FOR ERRC IMPROVEMENT PACKAGE.

MICHAEL CRISLIP | ARCHITECT
MICHAEL CRISLIP
NO. 356867
02/24/2025
Design and construction documents as instruments of service are given in confidence and remain the property of Michael Crislip, Architect. The use of these documents and the information contained therein for purposes other than the specific project named herein is strictly prohibited without the written consent of Michael Crislip, Architect.

TRACTOR SUPPLY CO.
FUSION / SIDELOT
STORE # 950
1821 EAST HWY 40
BALLARD, UT

T1.0
COVER SHEET

Drawn By: AS
Date: 02-07-25 Issue: BID / PERMIT

Project No.: 25.0167
Cover Sheet

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TRACTOR SUPPLY & VENDOR CONTACT INFORMATION						NO SUBSTITUTIONS PERMITTED
TRACTOR SUPPLY	Fixture Plans VICKY DERON #615.440.4508 vderon@tractorsupply.com	Vendor #5: HVAC LENNOX LEAD TIME: 20 WEEKS GARRY BAKER #803.373.9625 rickweller@ljs-solutions.com	Vendor #10: Pallet Racking L.J.S. SOLUTIONS LEAD TIME: 15-24 WEEKS RICK WELLER #803.373.9625 rickweller@ljs-solutions.com	Vendor #16: Propane Canopy VERSATUBE BUILDING SYSTEMS SPENCER BRATTON #901.401.3687 sbratton@versatube.com	TRACTOR SUPPLY	
	Renée Rychlca rychlca@TractorSupply.com	Vendor #11: Vinyl Plank FLOORING (REFER TO FLOORING VENDOR TERRITORY MAP)	Vendor #12: Vinyl Plank SHERWIN WILLIAMS	Vendor #17: Paint DANIEL CHALSSON REGIONAL ACCOUNT EXECUTIVE #615.484.5408 daniel.chalsson@sherwin.com	Fixture Plans CLINT WEAVIL STORE SERVICES SPECIALIST #615.440.4074 cweavil@TractorSupply.com	
	Brian Spears MANAGER, SAFETY & ENVIRONMENTAL COMPLIANCE #615.440.4415 bspears@TractorSupply.com	UCX Southwest Pam Comeau P.Comeau@ucx.com #508.377.3782	UCX Southwest TOM KERR CORPORATE ACCOUNT MANAGER #614.580.8305 thomas.kerr@pgg.com	Propane Coordination RACHEL DENNY LIVE GOODS & BULK PROPANE #615.647.2753 rdenny@TractorSupply.com	Propane Coordination CLINT WEAVIL STORE SERVICES SPECIALIST #615.440.4074 cweavil@TractorSupply.com	
	Rachel Denny LIVE GOODS & BULK PROPANE #615.647.2753 rdenny@TractorSupply.com	NORTHSTAR FLOORING TRACTORSUPPLY@NORTHSTARFLOORING.COM	Vendor #18: Baler JWR, INC.	Utility Transfer Information JAMES MASTERS, TSC ENERGY MANAGER ENGIE #615.440.4306 jmasters@tractorsupply.com tractorsupply@PCL.Engie.com (FOR LP ACCOUNTS FOR BUILDING HEAT CALL AMERICAS)	Utility Transfer Information JAMES MASTERS, TSC ENERGY MANAGER ENGIE #615.440.4306 jmasters@tractorsupply.com tractorsupply@PCL.Engie.com (FOR LP ACCOUNTS FOR BUILDING HEAT CALL AMERICAS)	
	RECOMMEND ONLY	Vendor #19: Seismic Fixture Anchoring TAMARACK GROVE	Vendor #20: Fixture RED STRIPING ROCKTENN COMPANY	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #19: Seismic Fixture Anchoring TAMARACK GROVE	Vendor #13: Parking Signs & Bollard Covers MCCUE	Vendor #20: Fixture RED STRIPING ROCKTENN COMPANY	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #13: Parking Signs & Bollard Covers MCCUE	Vendor #14: Steel Dock/Ramp DISTRIBUTOR	Vendor #21: Concrete Sealer THE EUCLID CHEMICAL COMPANY	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #14: Steel Dock/Ramp DISTRIBUTOR	Vendor #15: Environmental & Industrial Steel Fabricators INDUSTRIAL STEEL FABRICATORS	Vendor #22: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #15: Environmental & Industrial Steel Fabricators INDUSTRIAL STEEL FABRICATORS	Vendor #16: Fire Alarm & Security Systems WORLD DRYERS DISTRIBUTOR	Vendor #23: Millwork (REFER TO MILLWORK TERRITORY MAP)	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #16: Fire Alarm & Security Systems WORLD DRYERS DISTRIBUTOR	Vendor #17: Hand Dryers WORLD DRYERS DISTRIBUTOR	Vendor #24: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #17: Hand Dryers WORLD DRYERS DISTRIBUTOR	Vendor #18: Baler JWR, INC.	Vendor #25: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #18: Baler JWR, INC.	Vendor #19: Seismic Fixture Anchoring TAMARACK GROVE	Vendor #26: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #19: Seismic Fixture Anchoring TAMARACK GROVE	Vendor #20: Fixture RED STRIPING ROCKTENN COMPANY	Vendor #27: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #20: Fixture RED STRIPING ROCKTENN COMPANY	Vendor #21: Concrete Sealer THE EUCLID CHEMICAL COMPANY	Vendor #28: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #21: Concrete Sealer THE EUCLID CHEMICAL COMPANY	Vendor #22: Graphics YUNKER SIGNAGE	Vendor #29: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #22: Graphics YUNKER SIGNAGE	Vendor #23: Millwork (REFER TO MILLWORK TERRITORY MAP)	Vendor #30: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #23: Millwork (REFER TO MILLWORK TERRITORY MAP)	Vendor #24: Graphics YUNKER SIGNAGE	Vendor #31: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #24: Graphics YUNKER SIGNAGE	Vendor #25: Graphics YUNKER SIGNAGE	Vendor #32: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #25: Graphics YUNKER SIGNAGE	Vendor #26: Graphics YUNKER SIGNAGE	Vendor #33: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #26: Graphics YUNKER SIGNAGE	Vendor #27: Graphics YUNKER SIGNAGE	Vendor #34: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #27: Graphics YUNKER SIGNAGE	Vendor #28: Graphics YUNKER SIGNAGE	Vendor #35: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #28: Graphics YUNKER SIGNAGE	Vendor #29: Graphics YUNKER SIGNAGE	Vendor #36: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #29: Graphics YUNKER SIGNAGE	Vendor #30: Graphics YUNKER SIGNAGE	Vendor #37: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #30: Graphics YUNKER SIGNAGE	Vendor #31: Graphics YUNKER SIGNAGE	Vendor #38: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #31: Graphics YUNKER SIGNAGE	Vendor #32: Graphics YUNKER SIGNAGE	Vendor #39: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #32: Graphics YUNKER SIGNAGE	Vendor #33: Graphics YUNKER SIGNAGE	Vendor #40: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #33: Graphics YUNKER SIGNAGE	Vendor #34: Graphics YUNKER SIGNAGE	Vendor #41: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #34: Graphics YUNKER SIGNAGE	Vendor #35: Graphics YUNKER SIGNAGE	Vendor #42: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #35: Graphics YUNKER SIGNAGE	Vendor #36: Graphics YUNKER SIGNAGE	Vendor #43: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #36: Graphics YUNKER SIGNAGE	Vendor #37: Graphics YUNKER SIGNAGE	Vendor #44: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #37: Graphics YUNKER SIGNAGE	Vendor #38: Graphics YUNKER SIGNAGE	Vendor #45: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #38: Graphics YUNKER SIGNAGE	Vendor #39: Graphics YUNKER SIGNAGE	Vendor #46: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #39: Graphics YUNKER SIGNAGE	Vendor #40: Graphics YUNKER SIGNAGE	Vendor #47: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #40: Graphics YUNKER SIGNAGE	Vendor #41: Graphics YUNKER SIGNAGE	Vendor #48: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #41: Graphics YUNKER SIGNAGE	Vendor #42: Graphics YUNKER SIGNAGE	Vendor #49: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #42: Graphics YUNKER SIGNAGE	Vendor #43: Graphics YUNKER SIGNAGE	Vendor #50: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #43: Graphics YUNKER SIGNAGE	Vendor #44: Graphics YUNKER SIGNAGE	Vendor #51: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #44: Graphics YUNKER SIGNAGE	Vendor #45: Graphics YUNKER SIGNAGE	Vendor #52: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #45: Graphics YUNKER SIGNAGE	Vendor #46: Graphics YUNKER SIGNAGE	Vendor #53: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #46: Graphics YUNKER SIGNAGE	Vendor #47: Graphics YUNKER SIGNAGE	Vendor #54: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #47: Graphics YUNKER SIGNAGE	Vendor #48: Graphics YUNKER SIGNAGE	Vendor #55: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #48: Graphics YUNKER SIGNAGE	Vendor #49: Graphics YUNKER SIGNAGE	Vendor #56: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #49: Graphics YUNKER SIGNAGE	Vendor #50: Graphics YUNKER SIGNAGE	Vendor #57: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #50: Graphics YUNKER SIGNAGE	Vendor #51: Graphics YUNKER SIGNAGE	Vendor #58: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
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	Vendor #54: Graphics YUNKER SIGNAGE	Vendor #55: Graphics YUNKER SIGNAGE	Vendor #62: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #55: Graphics YUNKER SIGNAGE	Vendor #56: Graphics YUNKER SIGNAGE	Vendor #63: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #56: Graphics YUNKER SIGNAGE	Vendor #57: Graphics YUNKER SIGNAGE	Vendor #64: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #57: Graphics YUNKER SIGNAGE	Vendor #58: Graphics YUNKER SIGNAGE	Vendor #65: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor #58: Graphics YUNKER SIGNAGE	Vendor #59: Graphics YUNKER SIGNAGE	Vendor #66: Graphics YUNKER SIGNAGE	Waste & Recycling RED STRIPING ROCKTENN COMPANY	RECOMMEND ONLY	
	Vendor					

REMODEL - TIME AND ACTION CALENDAR

TASK	COMPLETION DATE	CONTACT	RESPONSIBILITY
ARCHITECT TO EMAIL FLOOR PLAN BASE SHEET AND BASE PLAN CHECKLIST TO TSC STORE PLANNING AND SECURITY SYSTEMS VENDOR	AT PROJECT START	RENEE RYCHLICA rychlica@TractorSupply.com	ARCHITECT
Fixture plan provided by TSC	14 WEEKS BEFORE CONST. START	RENEE RYCHLICA rychlica@TractorSupply.com	TSC FIXTURE PLANNING
ARCHITECT TO EMAIL FLOOR PLAN BASE SHEET TO SECURITY SYSTEMS CONTRACTOR	AT PLAN APPROVAL	VENDOR #6	ARCHITECT
ARCHITECT TO OBTAIN PROPANE APPROVAL DATE AND STAMP FROM TSC	PRIOR TO PERMIT SUBMISSION	CLINT WEAVIL cweavil@tractorsupply.com	ARCHITECT
AOR TO OBTAIN STATE AND LOCAL PERMITS, INCLUDING SEISMIC ANCHOR PERMITS FOR FIXTURES (NOT REQUIRED (AOR TO DETERMINE WHERE REQUIRED)) AOR TO OBTAIN SITE SPECIFIC ANCHORING PACKAGE FROM VENDORS	PRIOR TO PERMIT SUBMISSION	VENDOR #10, VENDOR #19	ARCHITECT
ARCHITECT TO UPLOAD PLANS TO PROJECTMATES	LATEST DOCUMENTS AT BID & PERMIT APPROVAL	PROJECTMATES - #214.217.4100	ARCHITECT
CONTRACTOR TO COORDINATE INSTALLATION OF FIXTURES PRIOR TO FIXTURE WEEK, INCLUDING SEISMIC ANCHORING FOR FIXTURES WHEN REQUIRED.	7 WEEKS	VENDOR #20	CONTRACTOR
CONTRACTOR - CONTACT SECURITY SYSTEMS CONTRACTOR AND SCHEDULE ALARM INSTALLATION	7 WEEKS	VENDOR #6	CONTRACTOR
SECURITY SYSTEMS CONTRACTOR - HAS TO BEGIN INSTALLATION	3 WEEKS	VENDOR #6	TSC LOSS PREVENTION
CONTRACTOR - CONDUITS FOR IT AND PHONE WITH PULL STRINGS	4 WEEKS	STAN KOLIC (615.440.4824)	CONTRACTOR
QS / DURA-RAMP OR LOADING DOCK ACCESS, FORKLIFT, PROPANE GAS AND PROPANE DIS. TANK (PROPANE FOR FORKLIFT AND HEAT IF NECESSARY)	4 WEEKS	AMERIGAS - SCOTT PIERCE (317.109.2339) scott.pierce@amerigas.com, CHRIS SAUER (610.768.7612) christopher.sauer@amerigas.com, MOLLIE TRELOAR (615.440.4230) mtreloar@tractorsupply.com, MARIAH CRAYTON (615.647.2639) morayton@tractorsupply.com	TSC STORE ADMINISTRATION & CONTRACTOR
CONTRACTOR - ALL DOORS TO BE INSTALLED WITH LOCKS	3 WEEKS	VENDOR #1, VENDOR #2, VENDOR #3	CONTRACTOR
UNIFIRST - MOPS AND MATS	1 WEEK	UNIFIRST - (888.851.2474) EX 5 BRAD COOPER (615.440.4965) bcooper@tractorsupply.com	TSC STORE ADMINISTRATION
TERMINIX - PEST CONTROL	1 WEEK	TERMINIX - (866.818.4573) BRAD COOPER (615.440.4965) bcooper@tractorsupply.com	TSC STORE ADMINISTRATION
SERVICE DESK, RECEIVING DESK, REGISTER COUNTERS WITH POWER POLES SET IN PLACE	1 WEEK	CAROLINE RICE (615.440.4705) crice@tractorsupply.com	CONTRACTOR
CABLING INSTALLED TO REGISTER COUNTERS, SERVICE DESK AND RECEIVING DESK CONNECT TO PERMANENT POWER	1 WEEK	STAN KOLIC (615.440.4824)	IT
PROPANE PROVIDER TO FILL PROPANE DISTRIBUTION TANK	1 WEEK	MOLLIE TRELOAR (615.440.4230) mtreloar@tractorsupply.com, MARIAH CRAYTON (615.647.2639) morayton@tractorsupply.com	TSC STORE ADMINISTRATION
TRANSITION WEEK - ALL CONSTRUCTION ACTIVITIES ARE TO BE COMPLETED PRIOR TO THIS WEEK WITH THE EXCEPTION OF THE CHECK OUT COUNTER AND EMPLOYEE LOUNGE MILLWORK INSTALLATION	Fixture week	CAROLINE RICE (615.440.4705) crice@tractorsupply.com	TSC STORE ADMINISTRATION
SOS (FULL TRUCK)	5 DAYS (WEDNESDAY)	CAROLINE RICE (615.440.4705) crice@tractorsupply.com	TSC STORE ADMINISTRATION
LIS - BACKROOM AND SIDELOT FIXTURES (1/2 TRUCK)	4 DAYS (THURSDAY)	CAROLINE RICE (615.440.4705) crice@tractorsupply.com	TSC STORE ADMINISTRATION
NATIONAL CART - CART CORRAL (1/2 TRUCK)	4 DAYS (THURSDAY)	CAROLINE RICE (615.440.4705) crice@tractorsupply.com	TSC STORE ADMINISTRATION
MEG - FIXTURES (3/4 OF A TRUCK)	3 DAYS (FRIDAY)	CAROLINE RICE (615.440.4705) crice@tractorsupply.com	TSC STORE ADMINISTRATION
LOZIER - FIXTURES - FULL TRUCK	3 DAYS (FRIDAY)	CAROLINE RICE (615.440.4705) crice@tractorsupply.com	TSC STORE ADMINISTRATION
CONTRACTOR TO ENGAGE ERRC TESTING COMPANY AND SCHEDULE TESTING WHEN REQUIRED BY AHU	AFTER MERCHANDISE PLACEMENT		CONTRACTOR
DELIVERY OF GARDEN CENTER FEED CENTER MATERIALS	COORD. w/ T.S.C. PM.	**COORDINATE WITH T.S.C. PM	CONTRACTOR
SIGNAGE	COORD. w/ T.S.C. PM.	VENDOR #22	CONTRACTOR
HVAC FOR FEED CENTER	COORD. w/ T.S.C. PM.	VENDOR #5	CONTRACTOR
VINYL PLANK FLOORING		VENDOR #11	CONTRACTOR
CARHARTT SHOP (IF APPLICABLE)	4 WEEKS BEFORE FUSION COMPLETION - COORD. w/ T.S.C. PM.	VENDOR #15	CONTRACTOR

NOTE: GENERAL CONTRACTOR TO ORDER, "CONTACT POSTER" FROM PLAN EXPRESS AND POST ON STOREFRONT AT CONSTRUCTION START.

EXHIBIT H-1: TRAINING CERTIFICATION

COPY OF THIS EXECUTED DOCUMENT TO BE INCLUDED IN THE CLOSE OUT DOCUMENTS PROVIDED BY THE GENERAL CONTRACTOR (FOR RETRO FIT BY TENANT) OR LANDLORD (RETRO FIT BY LL AND GROUND UP PROJECTS) TO TRACTOR SUPPLY COMPANY!		
TSC STORE MANAGER	INITIAL GC	TRAINING HAS BEEN COMPLETED WITH THE STORE MANAGER BY THE GENERAL CONTRACTOR (GC) ON HOW TO USE, OPERATE AND MAINTAIN:
		THE IRRIGATION SYSTEM, ALSO THE TSC STORE MANAGER HAD BEEN ADVISED THAT THE STORE IS RESPONSIBLE FOR MAINTAINING ALL LANDSCAPING STATING AT EITHER FIXTURE DATE OR COMPLETION DATE, THE LATTER OF THE TWO DATES.
		THE LIGHT TIMER SYSTEM INCLUDING REVIEW OF THE SCHEDULE
		THE HVAC SYSTEM OPERATION INCLUDING HOW TO ADJUST THE PROGRAMMABLE THERMOSTATS.
		THE AUTOMATIC FRONT DOORS OPERATIONS INCLUDING SENSOR ADJUSTMENTS.
		THE OVERHEAD DOORS OPERATIONS INCLUDING TIMER, TIMER OVERRIDE, AND SAFETY EDGE.
		THE DELAY EGRESS DOOR (THE RESET BUTTON IS IN THE CONTROL BOX AND HAS TO BE RESET ANY TIME POWER IS LOST).
STORE #		
CITY/STATE		
STORE MANAGER		
GENERAL CONTRACTOR		

LVW RESPONSIBILITY AND TIMING PLAN

REMODELS & 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 FOR APPROVAL	SECURITY SYSTEMS CONTRACTOR TO IDENTIFY EXIST. HVAC UNITS BY THE LL PER THE CHECKLIST
SECURITY SYSTEM COMPLETED PLANS SENT TO RICH WOOD AND TSC PM	JCI / ADT	WIN 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	VENDOR #9	NO LESS THAN 2 WEEKS PRIOR TO FD	PLEASE BE SURE TO VIF 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 HORN, PHONES, PATCH PANEL, AP'S WI/ANTENNAS	STAN KOLIC / VENDOR #9	MONDAY AND TUESDAY BEFORE FD	
INSTALLATION OF POS SYSTEMS AT ALL LOCATIONS AND TESTING OF AP SYSTEM	STAN KOLIC / AGYLISIS	THURSDAY BEFORE FD	

NOTE:
ALL OTHER ACTIONS AND TIME FRAMES TO BE PER THE EXISTING TIMING AND ACTION CALENDAR.

COORDINATE THE ABOVE RESPONSIBILITY AND TIMING WITH T.S.C. PM & CONSTRUCTION MANAGER.

ON TSC OWNED PROJECTS ONLY, AN EXTREME WEATHER EVENT AND/ OR WEATHER RELATED CONDITIONS TO BE CONSIDERED FOR A CHANGE ORDER TO THE BASE CONTRACT MUST BE SUBSTANTIATED AS AN EVENT EXCEEDING THE PRIOR 3 YEAR AVERAGE OF SUCH AN EVENT VIA ACCUWEATHER.COM FOR THE SPECIFIC LOCATION AND SCHEDULE OF THIS PROJECT. PROPOSED CHANGE ORDERS OR CHARGES FOR WEATHER RELATED ISSUES MUST EXCEED THAT 3 YEAR AVERAGE IN ORDER TO BE CONSIDERED.

GENERAL NOTES:

Tractor Supply Co./Alarm Integrator - Pre-Installation Checklist			
The information for this form must be obtained by the alarm company's representative from GC Site Super. Upon completion, FAX or e-mail the completed form to your Project Manager/Coordinator and to Rich Wood/Tractor Supply Company Loss Prevention at 615-440-4721 rwood@tractorsupply.com.			
Store #/City:	Integrator:		
Fixture Date:	Soft Open Date:	Retro Fit	or Prototype
Key Contacts			
GC Site Super	Phone/E-mail:		
Alarm Site Rep:	Phone/E-mail:		
Alarm Proj Mgr:	Phone/E-mail:		
TSC LP Rep:	Rich Wood, office 615-440-4721, cell 330-554-4757, rwood@tractorsupply.com		
Pre-Construction Review			
Low Voltage Wiring Contractor? _____ Date Low Voltage Wiring to be complete? _____			
Who is responsible for turning in the fire submittals? _____			
Is the Riser located in the Tractor Supply space? YES NO			
Can alarms connect to it? YES NO			
What date will Riser points will be ready for connection?			
Any unusual HVAC issues with the building or from the landlord? YES NO			
Is Global Shutdown required at this site? YES NO			
> Who is responsible for the Global Shutdown GC or Mechanical?			
> Company Name			
> What date will Duct Detectors be ready for connection?			
> Does alarm vendor have any additional responsibilities with HVAC units?			
What date will the Final Inspection will be called for by GC? (By Thursday before Fixture)			
What date will the Final FA inspection will be completed? (By Thursday before Fixture)			
If there is any change or delay to the inspection date by the GC or Alarm Vendor please notify TSC Project Manager and Rich Wood immediately via email and phone.			
Other Key Dates			
What date will Interior Painting will be completed?			
What date is Site Floor Preparation scheduled?			
What date will the Front Doors will be installed by?			
What date will the Delayed Egress Door be fully powered and be ready for alarm connections?			
PE Beam Details			
Will 3 PE Beams cover all sides of the outdoor lot fencing? YES NO			
> If not, how many additional beams will be needed?			
> What is the surface type of the fenced area? Concrete Asphalt			
Is the fence attached to the store?			
PLEASE INCLUDE A DRAWING OF THE PROPOSED FENCED AREA WITH THIS CHECKLIST			
PE Beams are not authorized for detached lots without TSC SSC LP Approval.			
Was this Pre-Install Checklist completed by phone or site visit? _____			
Alarm Vendor Rep (Signature)		Site Superintendent (Signature)	

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COMBO PROJECT

STORE #1950
1821 EAST HWY 40
BALLARD, UT

Project No.: 25.0167
Drawn By: AS
Date: 02-07-25 Issue
02-07-25 BID/PERMIT

AS1.0

GENERAL NOTES

PARKING REQUIREMENTS:

- A. EXISTING PARKING SPACES / CONFIGURATION TO REMAIN, UNLESS NOTED OTHERWISE BY THE S.O.W. OR AS REQUIRED BY LOCAL JURISDICTION.
- B. WHEN RESCALING AND/OR RE-STRIPING: BAY SPACING, AS NOTED ON PLAN IS PREFERRED, WITH A PARKING STALL SIZE OF 9' WIDTH x 18' LENGTH AND 90-DEGREE ORIENTATION.
- C. STRIPING AND GRAPHICS SHALL USE A SINGLE 4" WIDE STRIPE, DIRECTIONAL ARROWS AND LETTERING ARE SOLID; COLOR AS REQUIRED PER NOTES ON THIS SHEET.

LANDSCAPE AREAS AND IRRIGATION:

- A. LANDSCAPE IS TO ONLY BE MODIFIED AS REQUIRED BY NEW WORK AFFECTING PREVIOUS LANDSCAPE. NEW LANDSCAPING IS NOT INTENDED THROUGHOUT.
- B. IF ALREADY INSTALLED, IRRIGATION SYSTEM TO BE COMPATIBLE WITH THE PLANT MATERIAL AND ENVIRONMENTAL EXPOSURE.
- C. IF LANDSCAPE IS TO BE ADDED / MODIFIED DESIGN WITH CONSIDERATION TO SIGHT LINES TO BUILDING SIGNAGE AND ENTRY ELEMENTS AS TO NOT REDUCE VISIBILITY.

GRADING AND DRAINAGE:

- A. EXISTING IMPERVIOUS AREA AND CALCULATED DRAINAGE AREA IS NOT INTENDED TO BE CHANGED. EXISTING SIDE LOT PAVEMENT IS INTENDED TO BE UTILIZED AS SLAB FOR NEW GREENHOUSE AND/OR FEED STORAGE BUILDING.
- B. IF NEW PAVEMENT OR SIDEWALKS ARE TO BE CONSTRUCTED AS IDENTIFIED WITHIN, DRAINAGE SHALL FLOW AWAY FROM BUILDINGS AND SIDEWALK CURBS. SIDEWALKS SHALL SLOPE AWAY FROM BUILDING AT 1/8" PER FOOT (MIN.)
- C. PROVIDE ALL REQUIRED UNDERGROUND AND SLEEVING ALL UTILITY AND IRRIGATION CONNECTIONS.

SITE LIGHTING:

- A. EXISTING SITE LIGHTING TO REMAIN; NO NEW LIGHTING OR LIGHT POLES INCLUDED, U.N.O.
- B. MINIMUM MAINTAINED ILLUMINATION AT GROUND SURFACE: REPAIR OR REPLACE FIXTURES AND LAMPS THAT ARE NOT OPERATIONAL.
- C. IF NOTED ON THE S.O.W. ALL CONCRETE LIGHT POLE BASES ARE TO BE PAINTED SAFETY YELLOW UNLESS OTHERWISE REQUIRED BY AUTHORITY HAVING JURISDICTION (REFER TO SCOPE OF WORK SUMMARY FOR ADDITIONAL INFORMATION).

OUTDOOR DISPLAY FIXTURE INSTALLATION GUIDELINES:

- A. VERIFY WITH THE STORE MANAGER THAT ALL RACKS ARE PROPERLY BUILT AND POSITIONED.
- B. DRILL HOLES FOR ANCHOR. (NOTE: HOLE IN BASE PLATE OF THE RACK MAY VARY. COORDINATE HOLE DIAMETER WITH MANUFACTURER.)
- C. TIE DOWN WITH ANCHOR BOLTS PER MANUFACTURER'S SPECIFICATIONS.
- D. SWEEP UP DRILLINGS AND ANY OTHER DEBRIS.

EXTERIOR PENETRATIONS:

FLASH, DRAFT STOP AND INSULATE AROUND ALL PENETRATIONS INCLUDING, BUT NOT LIMITED TO: PLUMBING PIPES AND VENTS, ELECTRICAL WIRES AND CONDUITS, ELECTRICAL FIXTURES, OTHER MECHANICAL SERVICES, AND IN SOME CASES, STRUCTURAL MEMBERS WITH A NON-DELETERIOUS ELASTOMERIC SEALANT, CAULK, FOAM, PAINT, ADHESIVE OR EFFECTIVE GASKET THROUGHOUT THE BUILDING ENCLOSURE. USE APPROPRIATE INFIL MATERIAL(S) COMPATIBLE WITH ADJACENT MATERIALS. DO NOT EXCEED MANUFACTURERS PUBLISHED TOLERANCES FOR MAXIMUM OPENING SIZES TO INFIL. REFER TO ASTM C1193 FOR A STANDARD GUIDE FOR USE OF JOINT SEALANTS. **NO CLEAR SEALANTS.**

8" HIGH CHAIN LINK FENCE SPECIFICATIONS: *REMODELS ONLY*

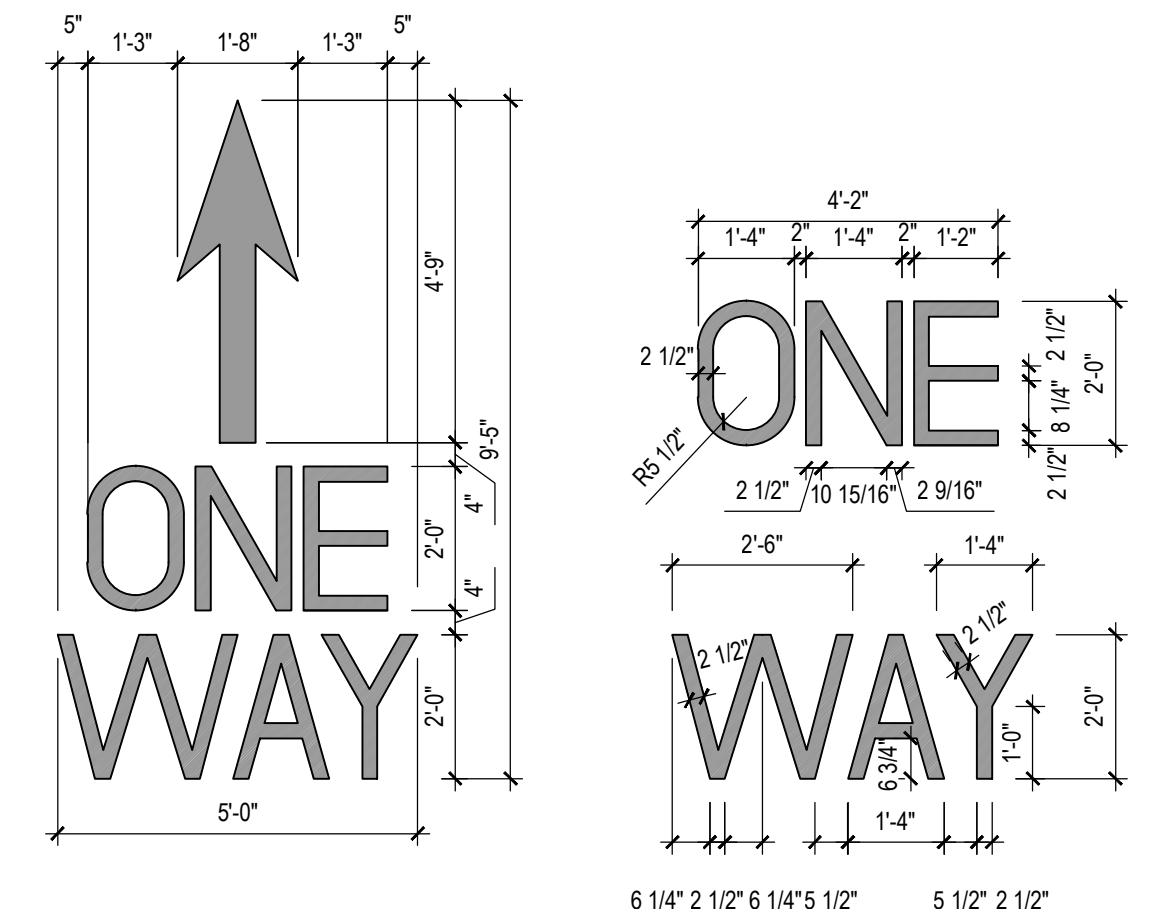
- A. FABRIC: 96" 9 GA. GALVANIZED (2" MESH) CHAIN LINK FABRIC.
- B. TOP & BOTTOM RAIL: 1 5/8" O.D. FULL WEIGHT PIPE, 2.27 LBS. PER FOOT (MIN). TOP RAIL TO BE JOINED WITH 1 5/8" SLEEVE. BOTTOM CAP: 1 1/2" ABV. GRADE.
- C. LINE POST: 2 1/2" O.D. FULL WEIGHT PIPE, 3.65 LBS. PER FOOT (MIN). LINE POST TO BE SET 10" ON CENTER MAX. SPACING. CONCRETE FOOTING TO BE 8" DIA. BY 30" DEEP CONC.
- D. TERMINAL POST: 3" O.D. FULL WEIGHT PIPE, 5.79 LBS. PER FOOT (MIN). SET IN 8" DIA. BY 36" DEEP CONC. FOOTING.
- E. GATE POST: 4" O.D. FULL WEIGHT PIPE, 9.10 LBS. PER FOOT (MIN). 8" DIA. 36" DEEP CONC. FOOTING.
- F. GATES: (5-0): (4) 10 FOOT SWINGING CHAIN LINK GATES AND (1-2) 4 FOOT SWING GATE(S), WITH FRAMEWORK OF 1 5/8" FULL WEIGHT PIPE, 2.27 LBS. PER FOOT (MIN). GATES BRACED AND TRUSS ED AS NECESSARY. SAME FABRIC AS FENCE. SEE PLAN FOR WIDTH.
- G. SWING GATES: DESIGN AS PER THE MANUFACTURERS DESIGN STANDARDS. GATES SHALL BE MANUALLY OPERATED SWINGING. MAXIMUM DISTANCE BETWEEN BOTTOM OF GATE AND FINISH GRADE TO BE 10".
- H. TENSILE WIRE: GALVANIZED SPRING GALVANIZED TENSION WIRE ATTACHED TO BOTTOM OF FENCE FABRIC WITH 9 GA. ALUM. HOG RING SPACED 24" ON CENTER.
- I. FINISHED: PRE-ASSEMBLED BAND AND CARRIAGE BOLT, PRESSED STEEL RAIL-END, PRESSED STEEL LOOP CAP, PRESSED STEEL CAP, 1/4" X 3/4" TENSION BAR, HEAVY TENSION BAND AND CARRIAGE BOLT.
- J. TIE WIRE: 8 1/4" 12 GA. STEEL TIE WIRE AND 6 1/2" 12 GA. STEEL WIRE SPACED 15" ON CENTER FOR LINE POST AND 24" ON CENTER FOR RAIL.
- K. POST FOOTING: TRUCK-POURED CONCRETE.
- L. SPECIFY A GATE LATCH WITH THE ABILITY TO ACCEPT A STANDARD PAD LOCK.

PARKING LOT PAINT SPECIFICATIONS - 15 MIL APPLICATION (0.015 INCH THICKNESS):

- A. NEW PAVEMENT SURFACE TO CURE FOR A PERIOD OF NOT LESS THAN 14 DAYS BEFORE APPLICATION OF MARKING MATERIALS.
- B. REMOVE ALL DIRT, GRAVEL, DEBRIS, VEGETATION, OR OTHER MISCELLANEOUS OBJECTS FROM THE SURFACE WITH A BROOM TRUCK OR EQUIVALENT RIGOROUS METHOD. PROVIDE A CLEAN, DUST-FREE AND COMPLETELY DRY SURFACE FOR PAINT APPLICATION. DO NOT APPLY PAINT OVER EXISTING TAPE MARKINGS.
- C. CONFIRM & RECORD PROPER AIR AND SURFACE TEMPERATURES OF 55° AND RISING AND LESS THAN 95°. IF THE SURFACE TEMPERATURE IS NOT WITHIN THE TEMPERATURE RANGE OR IF THE PAINT APPLICATION IS DONE UNDER ADVERSE CONDITIONS (AS DETERMINED BY THE CONSTRUCTION PROJECT MANAGER) SUCH AS ABOVE 75% HUMIDITY, NIGHT STRIPPING, ETC. IN ORDER TO MEET TSC OPENING SCHEDULE, CONTRACTOR TO RE-SCEDULE AND COMPLETE SURFACE STRIPPING UNDER PROPER CONDITIONS A MINIMUM OF 30 DAYS PRIOR TO THE EXPIRATION OF THE (1) ONE YEAR CONSTRUCTION WARRANTY.
- D. PROVIDE A 15 MIL THICK 4" WIDE CONTINUOUS STRIPE WHERE AND IN THE COLOR INDICATED. MINIMUM OF (2) TWO COATS.
- E. PROVIDE PRIMER AND SEALER TO BE APPLIED PER THE MANUFACTURER'S RECOMMENDATIONS ON ALL CONCRETE SURFACES AND ON ASPHALT SURFACES THAT ARE MORE THAN TWO YEARS OLD, OXIDIZED AND/OR HAVE AGGREGATE EXPOSED.

SITE STRIPING NOTE:

- A. STRIPING ON CONCRETE TO BE YELLOW.
- B. STRIPING ON ASPHALT TO BE WHITE.



3 | TYPICAL ONE WAY LETTERING

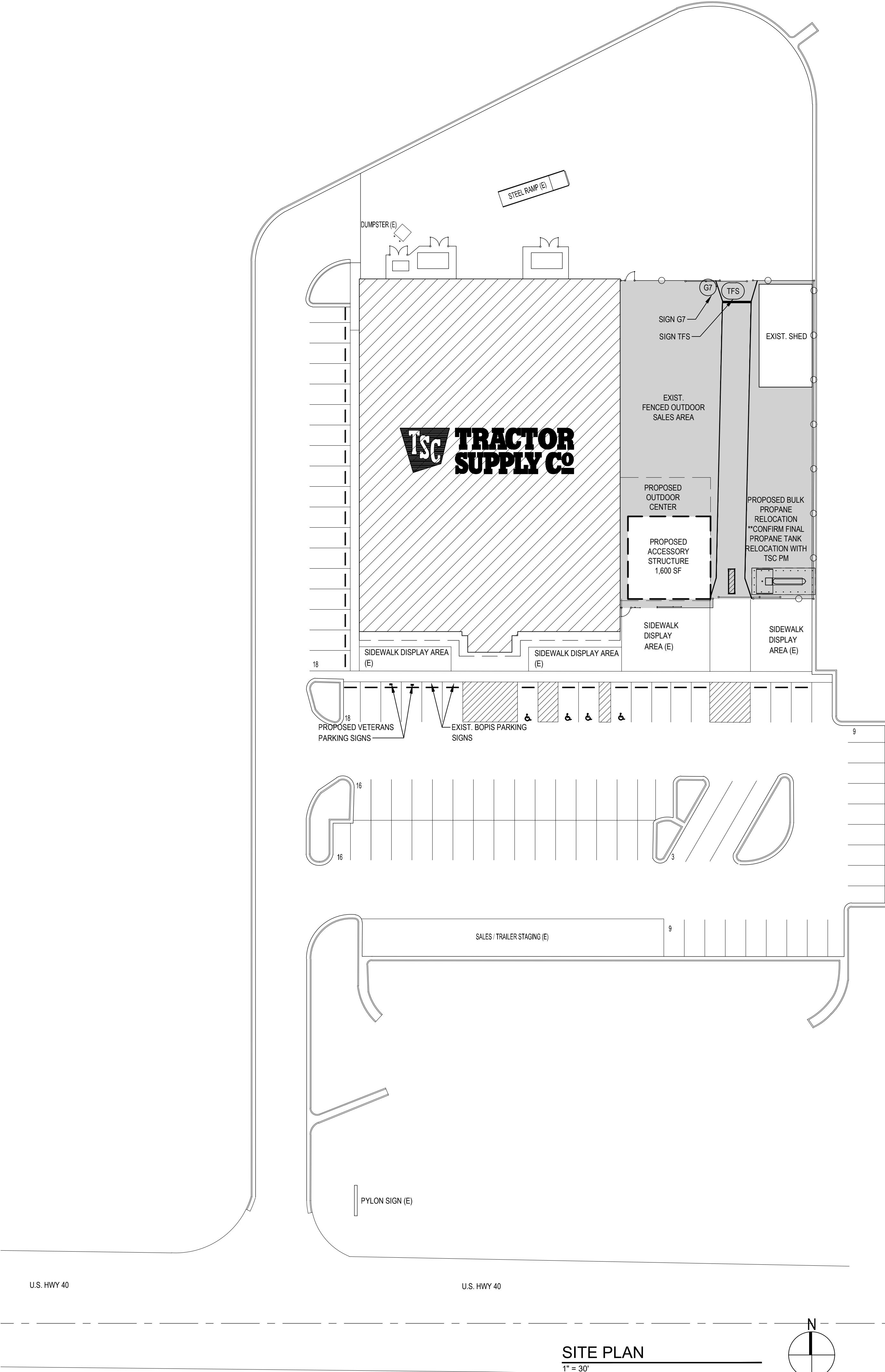
NOTE:
UNLESS OTHERWISE SHOWN:
LETTER HEIGHT = 8'4"
LETTER WIDTH = 1'4"
LETTER SPACING = 2'
VERTICAL SPACING = 4"
(USE EQUAL SPACING BETWEEN LETTERS AND CENTER ENTIRE SYMBOL IN LANE)



2 | TYPICAL STOP LANE LINE



1 | TYPICAL EDGE LANE LINE



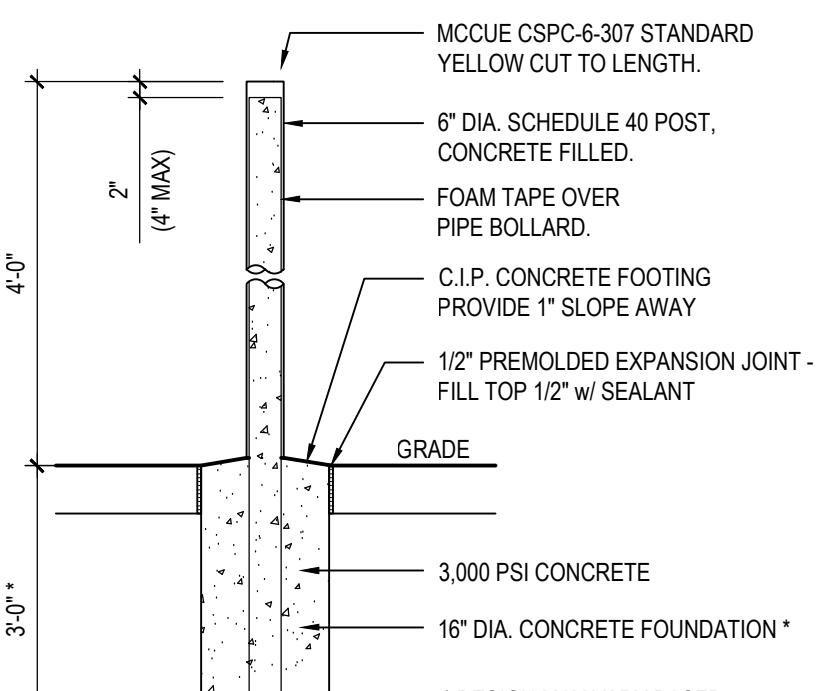
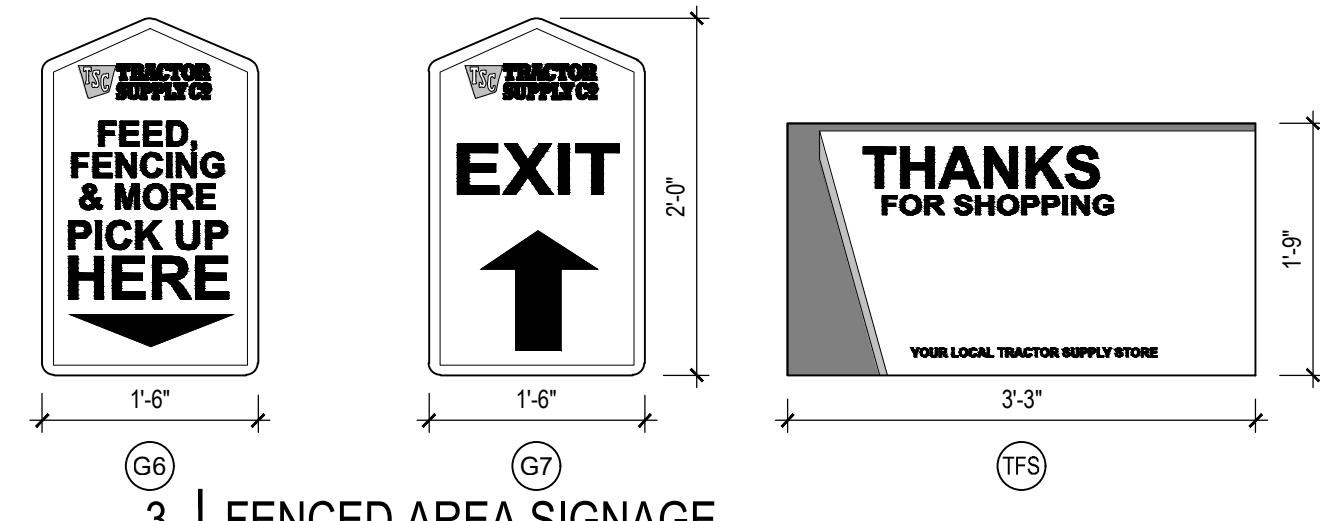


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FENCED OUTDOOR DISPLAY LOT SIGNAGE - CRITERIA		
DRIVE THRU	FEED BUILDING	SIGNS
NO	NO	NO CHANGES FOR CONSTRUCTION
YES	NO	INSTALL G7 & TFS
YES	YES	INSTALL G6, G7 & TFS

FENCED OUTDOOR DISPLAY LOT SIGNAGE - MOUNTING		
TSC ID AND SIGN DESCRIPTION	MOUNTING LOCATION	SUGGESTED MOUNTING METHOD
G6 - POLE SIGN: FEED, FENCING & MORE (18" X 24")	NEXT TO FEED BLGD OVERHEAD DOOR	2-1/2" DIA. GALVANIZED MTL POLE USING U-BOLTS
G7 - POLE SIGN: EXIT (18" X 24")	NEXT TO REAR DRIVE THRU FENCE GATE	2-1/2" DIA. GALVANIZED MTL POLE USING U-BOLTS
TFS - GATE SIGN: THANKS FOR SHOPPING (39" X 21")	ON FRONT SIDE OF REAR DRIVE THRU FENCE GATE	VENDOR #22 WILL SEND A UHOCK FOR INSTALLATION

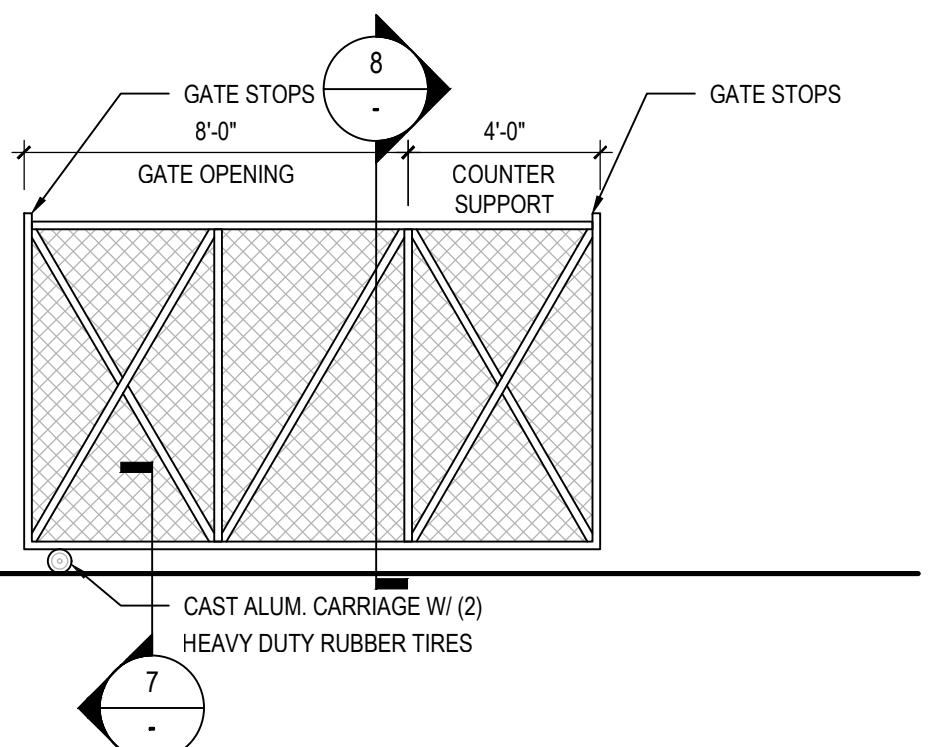
*CONFIRM FINAL LOCATION WITH TSC PM



9 | BOLLARD DETAIL

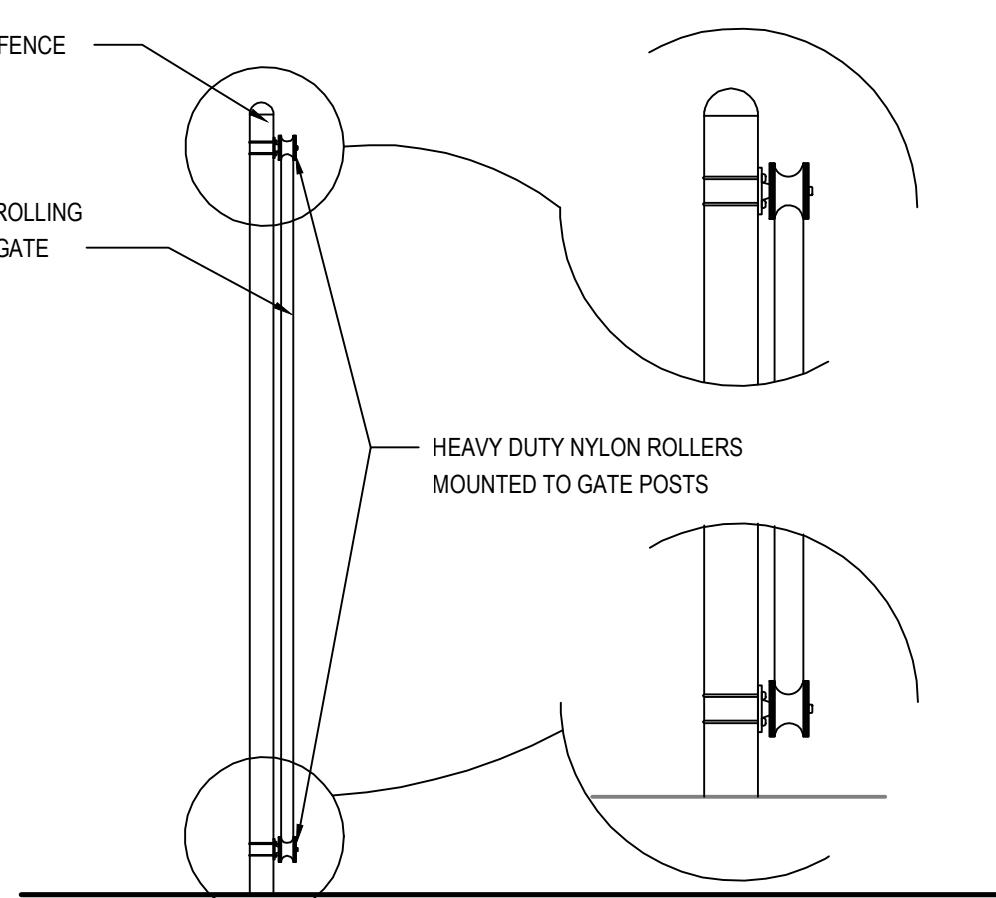
1/2"=1'-0"

NOTE: TSC REQUIRES NO GAP BETWEEN THE BOTTOM RAIL OF THE CANTILEVER GATE AND THE FINISH GRADE SHALL BE GREATER AT ANY POINT WITHIN THE GATE OPENING THAN THE DEPTH OF THE CASTERS. GENERAL CONTRACTOR IS RESPONSIBLE FOR RESOLVING GRADES AT F.O.D.



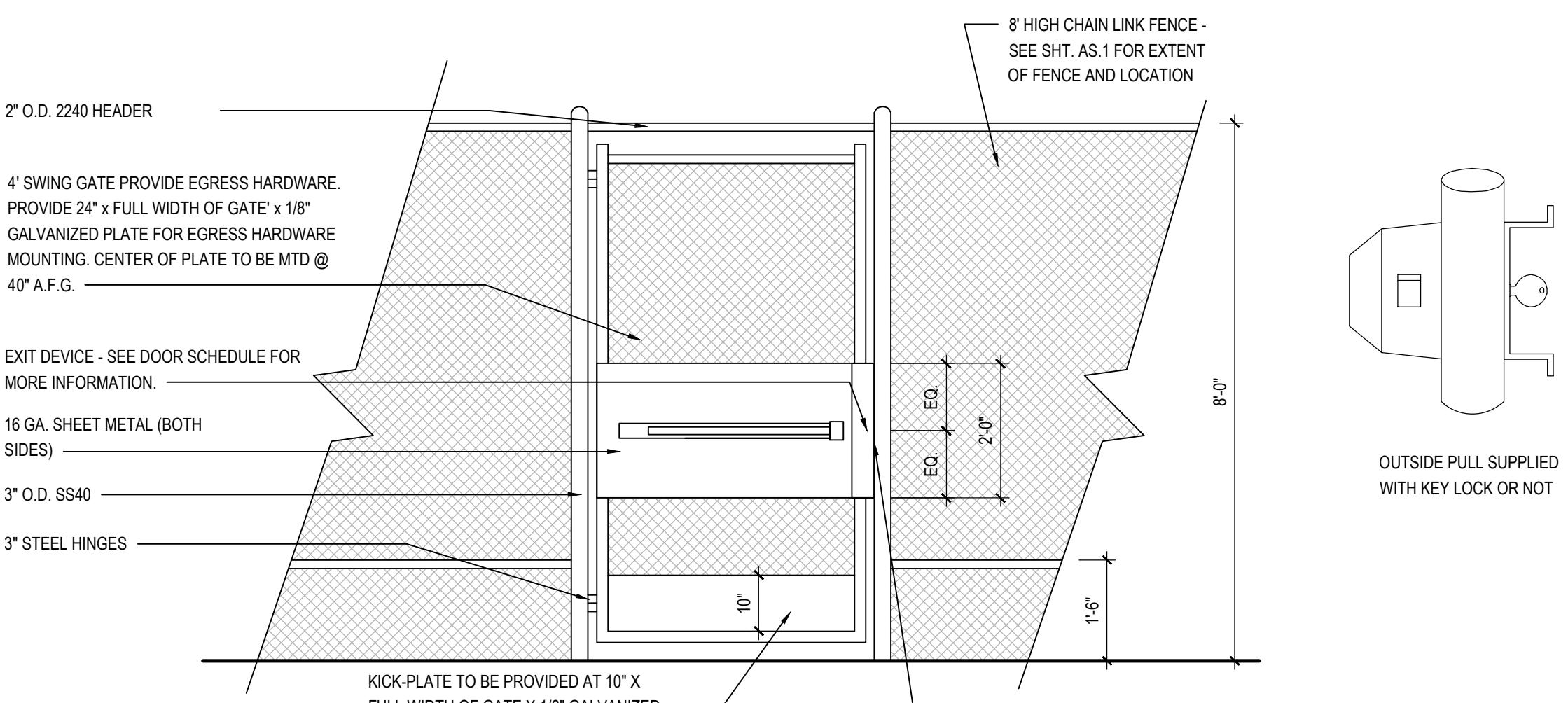
10 | 8' GATE OPENING SINGLE ROLLING GATE

1/4"=1'-0"



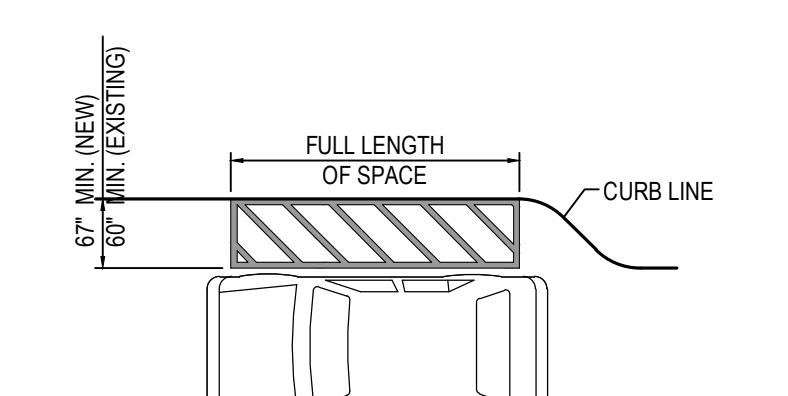
8 | FENCE GATE ROLLERS

1/2"=1'-0"



5 | 4'-0" GATE EGRESS HARDWARE

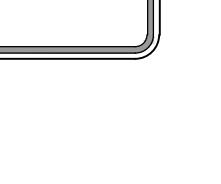
1/2"=1'-0"



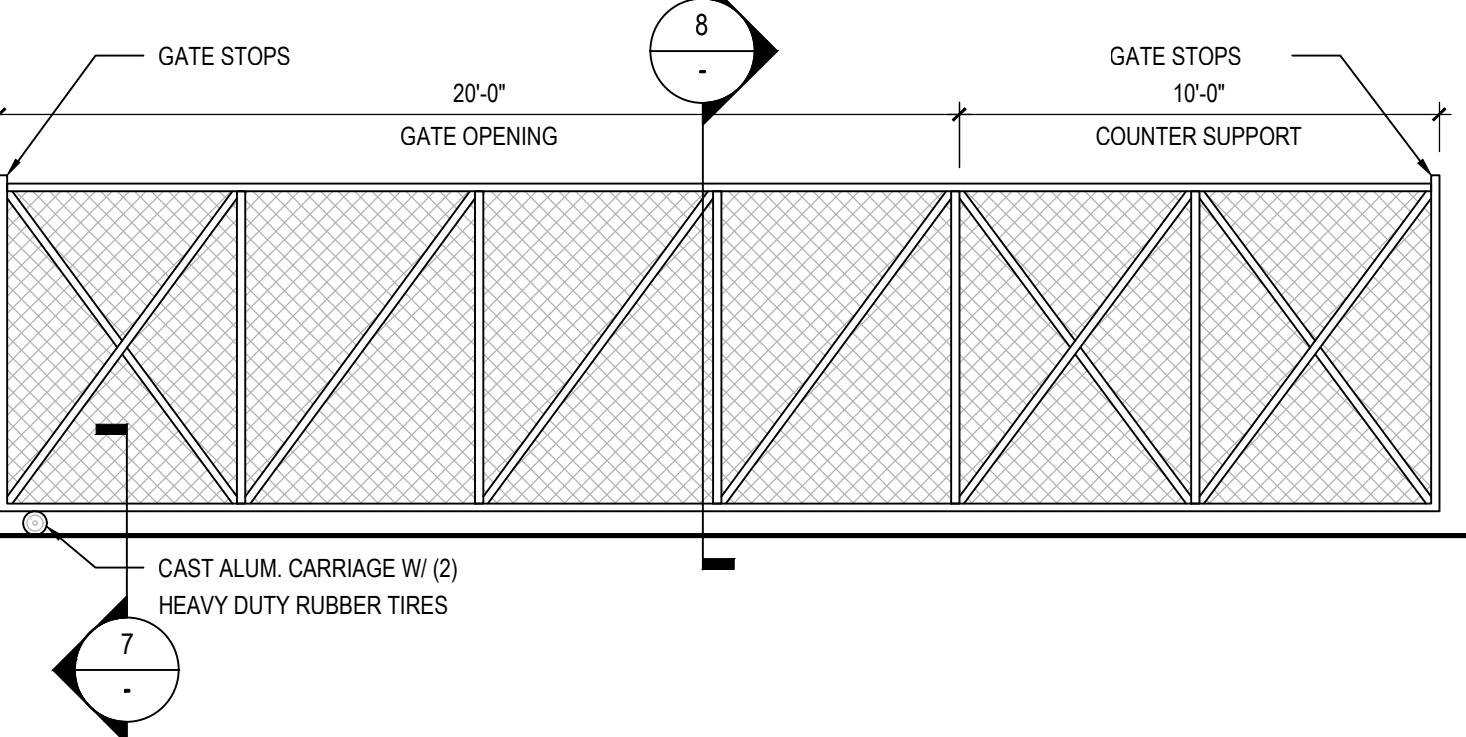
PASSENGER LOADING ZONE ACCESS AISLE

Fig. 503.3

GENERAL SITE NOTES:
1. ACCESSIBLE PARKING SPACES AND ACCESS AISLE SHALL BE LEVEL, MAXIMUM PERMITTED SLOPE IS 1:16 (502.5).
2. ACCESSIBLE PARKING SPACES MUST BE IDENTIFIED WITH A SIGN. SIGNS IDENTIFYING VAN ACCESSIBLE SPACES SHALL CONTAIN THE DESIGNATION "VAN ACCESSIBLE". SIGNS SHALL BE MINIMUM 60" FROM THE PARKING SURFACE TO THE BOTTOM OF THE SIGN. (502.2.8502.2.3)



NOTE: TSC REQUIRES NO GAP BETWEEN THE BOTTOM RAIL OF THE CANTILEVER GATE AND THE FINISH GRADE SHALL BE GREATER AT ANY POINT WITHIN THE GATE OPENING THAN THE DEPTH OF THE CASTERS. GENERAL CONTRACTOR IS RESPONSIBLE FOR RESOLVING GRADES AT F.O.D.



1 | 20' GATE OPENING SINGLE ROLLING GATE

1/4"=1'-0"

4 | ACCESSIBLE PARKING & PASSENGER LOADING

Ref. Section 502

1/4"=1'-0"

PARKING & PASSENGER LOADING ZONES

Ref. Sections 502 & 503

Ref. Section 502.7

7 | GATE WHEELS

1/2"=1'-0"

8 | GATE WHEELS

1/2"=1'-0"

VEHICAL PARKING SPACES & ACCESS AISLE

Ref. Section 502

1/4"=1'-0"

VAN ACCESSIBLE PARKING SPACE & ACCESS AISLE EXCEPTION

Fig. 502.2 (B)

Ref. Section 502.7

Ref. Sections 502 & 503

CODED NOTES

1. NOT USED.
2. SAW-CUT & REMOVE EXIST PAVING AS REQUIRED FOR NEW FOOTINGS. COORDINATE WITH VENDOR DOCUMENTS FOR ADDITIONAL INFORMATION AND COLUMN PLACEMENT.
3. SAW-CUT & REMOVE PORTION OF EXISTING EXTERIOR WALL TO CREATE NEW OPENING FOR DOOR WHERE INDICATED. REFER TO SHEET A1.0 & S1.0 FOR ADDITIONAL INFORMATION. COORDINATE SIZE OF OPENING WITH DOOR MANUFACTURER. PRIOR TO CUTTING DOORWAY, COMPARE THE INTERIOR FINISH FLOOR ELEVATION & EXTERIOR GRADE ELEVATION. IF SLOPED CONCRETE OR A RAMP IS REQUIRED, CONTACT TSC PM & COORDINATE EXTENT OF WORK.
4. ***DO NOT DISCONNECT OR REMOVE PROPANE TANK PRIOR TO FINAL RELOCATION. DESTINATION IS COMPLETE & INSPECTED TO MINIMIZE PROPANE USE SHUTDOWN*** REMOVE EXIST PROPANE TANK & BOLLARDS. RELOCATE TANK AND EQUIPMENT WHERE INDICATED. REFER TO SHEET A1.0 FOR ADDITIONAL INFORMATION. COORDINATE WITH TSC PM. PATCH PAVEMENT AS NECESSARY TO MATCH ADJACENT SURFACES.
5. REMOVE EXIST GATES. PREP AREA TO RECEIVE NEW WORK.
6. REMOVE EXIST MAN GATE. PREP AREA TO RECEIVE NEW WORK.
7. REMOVE EXIST FENCE WHERE INDICATED. PREP AREA TO RECEIVE NEW WORK.
8. NOT USED.
9. NOT USED.
10. REMOVE PAINTED GROUND MARKINGS ON PAVEMENT, INCLUDING STRIPING & CLEARANCE CROSS-HATCHING.
11. NOT USED.
12. NOT USED.
13. REMOVE EXIST DOOR; PREP OPENING FOR NEW WORK.
14. REMOVE EXIST LVT FLOORING THAT EXTENDS BEYOND THE NEW DEPARTMENT LAYOUT. REMOVE ALL GLUE / MASTIC. PREP FLOOR FOR NEW WORK. COORDINATE WITH TSC FIXTURE LAYOUT.
15. PREP SLAB FOR INSTALL OF NEW LVT PLANK FLOORING; COORDINATE WITH A1.0 & TSC FIXTURE LAYOUT.
16. VERIFY W/ TSC PM TO DETERMINE IF NEW LVT PLANK FLOORING CAN BE INSTALLED OVER EXIST VCT. PROVIDE VINYL TRANSITION WHEN INSTALLED OVER EXISTING VCT.
17. REMOVE EXIST CLOTHING AREA FINISHES & DRESSING ROOM; PREP AREA FOR NEW WORK.
18. CONFIRM WITH TSC PM IF OVERHEAD DOOR IS TO BE REMOVED; PREP OPENING FOR NEW WORK.
19. NOT USED.
20. NOT USED.
21. REMOVE ALL CEILING TILES & LIGHT COVERS.
22. REMOVE EXIST COUNTER & SINK UNIT IN BREAKROOM
23. NOT USED.
24. REMOVE EXIST PAPER TOWEL DISPENSER(S) IN RESTROOMS
25. NOT USED.
26. NOT USED.
27. NOT USED.
28. REMOVE EXIST DRINKING FOUNTAIN
29. NOT USED.
30. NOT USED.
31. NOT USED.

GENERAL NOTES

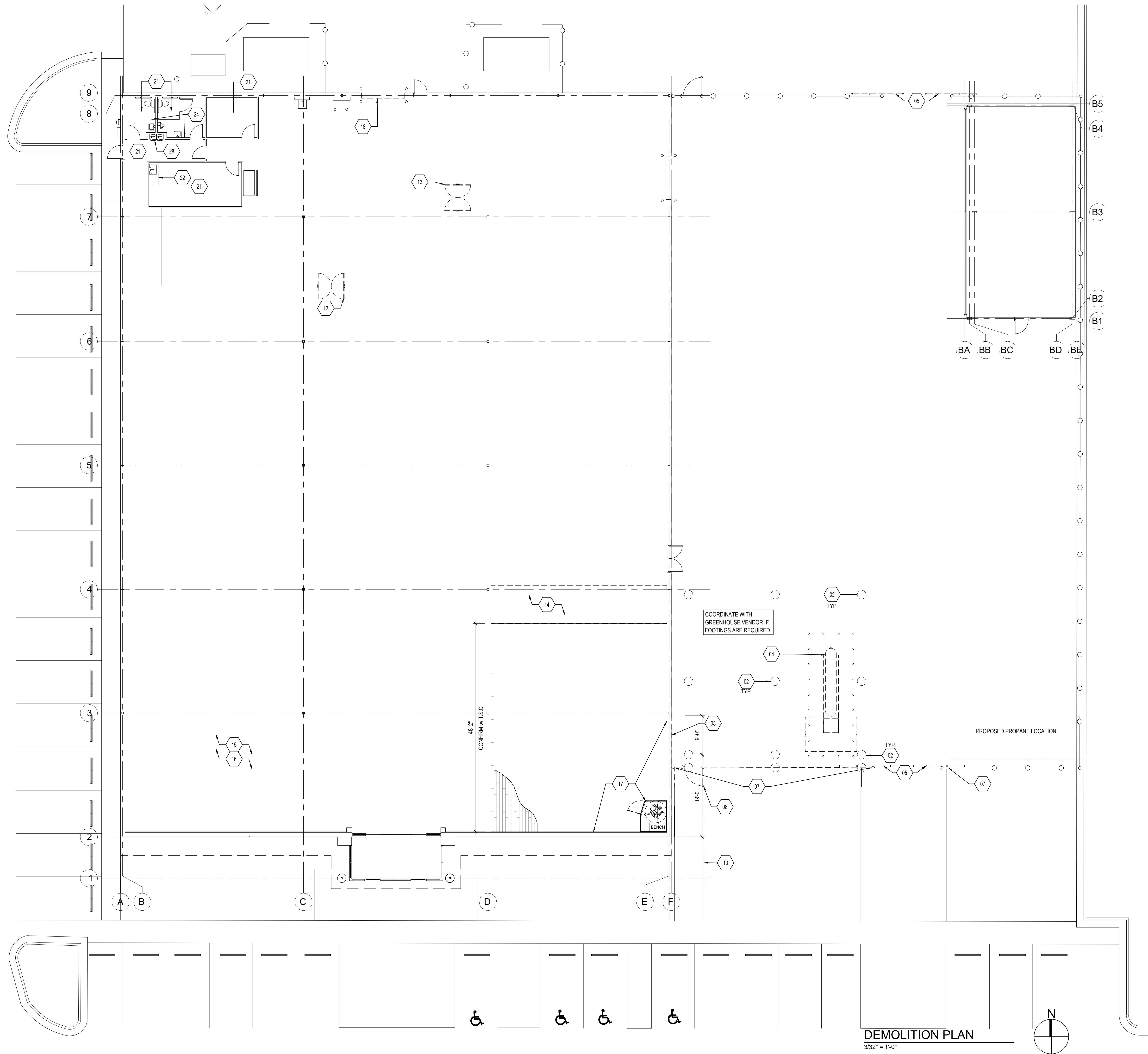
A. DEMOLITION PLAN SHOWS THE APPROXIMATE LAYOUT OF EXISTING BUILDING SPACE AND IS NOT INTENDED TO REPRESENT "AS-BUILT" CONDITIONS. PRIOR TO ANY DEMOLITION WORK, THE CONTRACTOR MUST FIELD VERIFY EXISTING BUILDING CONDITIONS AS WELL AS VERIFY EXISTING MECHANICAL, PLUMBING, AND ELECTRICAL WORK LOCATED IN THE DEMOLITION SPACE. NOTIFY ARCHITECT, T.S.C. PM AND CONSTRUCTION MANAGER IF THERE ANY DISCREPANCIES.

B. PROTECT EXISTING CONSTRUCTION SHOWN TO REMAIN DURING DEMOLITION. DAMAGE TO EXISTING CONSTRUCTION SHOWN TO REMAIN SHALL BE RESTORED TO MATCH PRE-DAMAGED CONDITION.

C. PROTECT FROM DAMAGE ALL EXISTING FINISH WORK TO REMAIN IN PLACE AND WHICH BECOMES EXPOSED DURING DEMOLITION OPERATIONS.

D. PROVIDE ALL NECESSARY SHORING, BRACING AND SUPPORT TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF STRUCTURE OR ELEMENT TO BE DEMOLISHED AND ADJACENT STRUCTURE OR ELEMENT SHOWN TO REMAIN. SHORING AND BRACING SHALL BE DESIGNED BY CONTRACTOR'S PROFESSIONAL ENGINEER LICENSED IN THE APPLICABLE JURISDICTION.

E. REFER TO MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.



WALL COVERING INSTALLATION

ADHESIVE BACKED VINYL

1. NEW DRYWALL: MAKE SURE THE DRYWALL IS FREE OF CONTAMINANTS SUCH AS DUST, DIRT AND MILDEW. JOINTS AND SPACKLED AREAS SHOULD BE THOROUGHLY CURED AND SANDED SMOOTH. BEST RESULTS ARE OBTAINED WHEN THE MOISTURE CONTENT OF THE DRYWALL IS AT OR LESS THAN 5 PERCENT. APPLY A GOOD QUALITY OPAQUE/WHITE PRIMER PRIOR TO PAINTING.
2. MOISTURE BEHIND DRYWALL CAN CAUSE THE DRYWALL PAPER TO RELEASE. WATCH FOR WALLS THAT BACK UP TO COOLING SYSTEMS, WATER PIPES, OVERHEAD WINDOWS OR WINDOWS THAT HAVE BEEN BOARDED UP. THESE AREAS ARE PRONE TO CONDENSATION THAT MAY NOT BE OBVIOUS AT THE TIME OF INSTALLATION (PLEASE TRY AND POINT THESE OUT TO YOUR INSTALLER).
3. REPAIR ANY DAMAGE. WALL GRAPHICS WILL NOT ADHERE TO PEELING OR CHIPPED PAINT, DENTED WALL SURFACES, OR HOLES IN THE WALL. PLEASE BE SURE THAT ALL ITEMS THAT HAVE BEEN REPAIRED, ARE SANDED AND CLEANED SO THAT THERE IS A SMOOTH CLEAN SURFACE TO PAINT ON.
4. WE RECOMMEND THAT A GLOSS OR SEMI-GLOSS PAINT IS USED BECAUSE IT PROVIDES A SMOOTH, NON-POROUS SURFACE. FLAT OR SATIN FINISH PAINTS ARE NOT RECOMMENDED. PLEASE ADVISE IF CONSIDERING USING A FLAT OR SATIN FINISH PAINT. ALSO, PLEASE INFORM YUNKER IF YOU ARE USING A LOW TO VOC PAINT SO THE APPROPRIATE VINYL CAN BE USED. CONTACT JULIE VENDEIRO: vendeiro@yunker.com; 940.367.6680.
5. USE A DAMP CLOTH TO REMOVE ANY DUST OR DEBRIS FROM THE WALL.
6. FOR ALL NEW CONSTRUCTION ALL WALLS MUST BE PRIMED BEFORE PAINTING.
PLEASE NOTE: VINYL WILL NOT ADHERE TO A WALL THAT HAS ONLY BEEN PAINTED AND NOT PRIMED.
7. ALLOW NO LESS THAN 7 DAYS FOR THE PAINT TO CURE BEFORE APPLYING VINYL.

GENERAL REQUIREMENTS

1. PAINT YELLOW STRIPE DOWN THE CENTER OF THE INSIDE OF THE ROLLING STEEL ROLLUP DOOR THAT RECEIVES NEW STRIPE DOORS. ONLY PAINT STRIPE IF PLASTIC STRIPE DOOR IS INSTALLED ON THE INSIDE. ON THE INSIDE, HANG A 6 INCH YELLOW PAINTED PVC PIPE AT THE HEIGHT OF THE ROLLING STEEL ROLLUP DOOR THAT WILL WARN FORK LIFT DRIVER THAT THEIR FORKS ARE TOO HIGH. IF SECTIONAL DOOR, HANG 6 INCH YELLOW PAINTED PVC AT THE HEIGHT OF THE EXPOSED SIDE OF THE TRACK. IF SECTIONAL DOOR, DO NOT PAINT STRIPE DOWN THE CENTER.
2. CHECK PRIMARY ROLLUP DOOR (DOOR USED BY FORKLIFT TO EXIT BUILDING) FOR PLASTIC CURTAIN STRIPS. IF STORE CURRENTLY HAS THESE, AND THEY ARE DAMAGED, MISSING, OR NON-TRANSLUCENT, PLEASE REPLACE. EACH STRIPS SHOULD OVERLAP 50%. IF STORE DOES NOT HAVE THESE ON THEIR PRIMARY ROLLUP DOOR, INSTALL NEW SET. IF SECTIONAL DOOR, STRIPS ON EXTERIOR. IF ROLLING STEEL DOOR, STRIPS ON INTERIOR.
3. CONTRACTOR IS TO HIRE COMMERCIAL CLEANING COMPANY TO REMOVE ALL DIRT AND GRIME FROM THE BATHROOMS, BREAK ROOM, MANAGER OFFICE, HALLWAY, SERVICE COUNTER & CASH WRAPS, AT THE SIDE LOT DOOR & VESTIBULE DOOR. REMOVE ALL DIRT AND GRIME FROM INTERIOR & EXTERIOR FROM GLASS. THIS SHOULD BE DONE AT THE END OF THE PROJECT PRIOR TO THE PUNCH DATE.
4. ANY WALL THAT IS RECEIVING PAINT IS ALSO TO RECEIVE NEW OUTLET COVERS TO MATCH AS WELL AS NEW COVE BASE.
5. ALL HVAC GRILLS ON SALES FLOOR VESTIBULE, REST ROOMS, BREAK ROOM, AND MANAGERS OFFICE TO BE CLEANED.

NOTE: CONFIRM APPLICABILITY WITH TSC PM PER TSC PROJECT.

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. SWING 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. 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.

FLOORING SPECIFICATIONS

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 150 LF AND PATCHING OF HOLES SMALLER THAN 3" THAT POSE A TRIP HAZARD. PROCESS TO BE INSTALLED BY FLOORING SUB-CONTRACTOR.

FLOOR IN STOCKROOM, IT ROOM
CONCRETE FLOORING SPECIFICATIONS. PROVIDE THE FOLLOWING:
 • 1 CUT GRIND THEN SEALED WITH GUARD/SEALER INSTALLED BY FLOORING SUBCONTRACTOR.

FLOOR IN PET WASH
CONCRETE FLOORING SPECIFICATIONS. PROVIDE THE FOLLOWING:
 1. 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 400 SF/GALLON
 2. JOINT FILLING: FILL ALL CONTROL JOINTS AS SPECIFIED IN SECTION 3.07 "INTERIOR CONCRETE JOINT FILLER", PARAGRAPH B.
 3. 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 ABRASE THE SURFACE TO ACHIEVE A SURFACE PROFILE EQUAL TO CSP-2-3 IN ACCORDANCE WITH ICRC GUIDELINE 3102. 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 454).
 4. PRODUCTS:
 a. INITIAL COAT: "INCREDIBLE HIGH PERFORMANCE EPOXY" 1 GALLON KIT (GRAY COLOR) BY EUCLID CHEMICAL
 b. PIGMENTED CHIPS: "INCREDIBLE GRANITE COAT CHIPS" (MICA COLOR) BY EUCLID CHEMICAL
 c. GROUT COAT: "INCREDIBLE HIGH PERFORMANCE EPOXY" 1 GALLON KIT (CLEAR COLOR) BY EUCLID CHEMICAL
 d. FINAL WEAR COAT: "INCREDIBLE POLYSEAL POLYASPARTIC" 2 GALLON KIT (CLEAR COLOR) BY EUCLID CHEMICAL

5. INITIAL COAT MIXING: PRE-MIX "INCREDIBLE HIGH PERFORMANCE EPOXY" (GRAY COLOR) BY EUCLID CHEMICAL 1 GALLON KIT 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 WILL BE APPLIED DURING THE POT LIFE. DO NOT AERATE THE MIX.
 6. INITIAL COAT APPLICATION: APPLY "INCREDIBLE 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.
 7. PIGMENTED CHIP APPLICATION: BROADCAST UNTIL REFUSAL, "INCREDIBLE 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.
 8. GROUT COAT: APPLY "INCREDIBLE HIGH PERFORMANCE EPOXY" (CLEAR) AT 120 SF/GALLON. ALLOW TO DRY.
 9. WEAR COAT: APPLY A FINAL COAT OF "INCREDIBLE POLYSEAL POLYASPARTIC" (CLEAR) AT 120 SF/GALLON. ALLOW TO DRY.
 10. 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 "INCREDIBLE 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 JOINTS BETWEEN WALL AND FLOOR. BROADCAST UNTIL REFUSAL, "INCREDIBLE GRANITE COAT CHIPS" (MICA) INTO THE WET EPOXY FINISH COVERAGE. 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.
 b. INSTALL CEMENT WALL BOARD TAPE, SIMILAR TO GOLDBLATT PROFESSIONAL CEMENT BOARD TAPE, TO ALL JOINTS OF CEMENT BOARD.
 c. INSTALL FIBER REINFORCED PANELS (FRP) AS REQUIRED. DO NOT APPLY ADHESIVE TO ANY AREAS CONTACTING THE 4" COVE BASE.
 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.

NOTE: TSC REQUIRES NO GAP BETWEEN THE BOTTOM RAIL OF THE CANTILEVER GATE AND THE FINISH GRADE SHALL BE GREATER AT ANY POINT WITHIN THE GATE OPENING THAN THE DEPTH OF THE CASTERS. GENERAL CONTRACTOR IS RESPONSIBLE FOR RESOLVING GRADES AT F.O.D.

AN ABBREVIATED CONCRETE SPECIFICATION APPROVED BY TSC SHALL BE INCLUDED FOR ALL RETROFIT PROJECTS. A COPY OF A GENERIC ABBREVIATED CONCRETE SPECIFICATION APPROVED BY TSC IS AVAILABLE FROM ONYX CREATIVE UPON REQUEST.

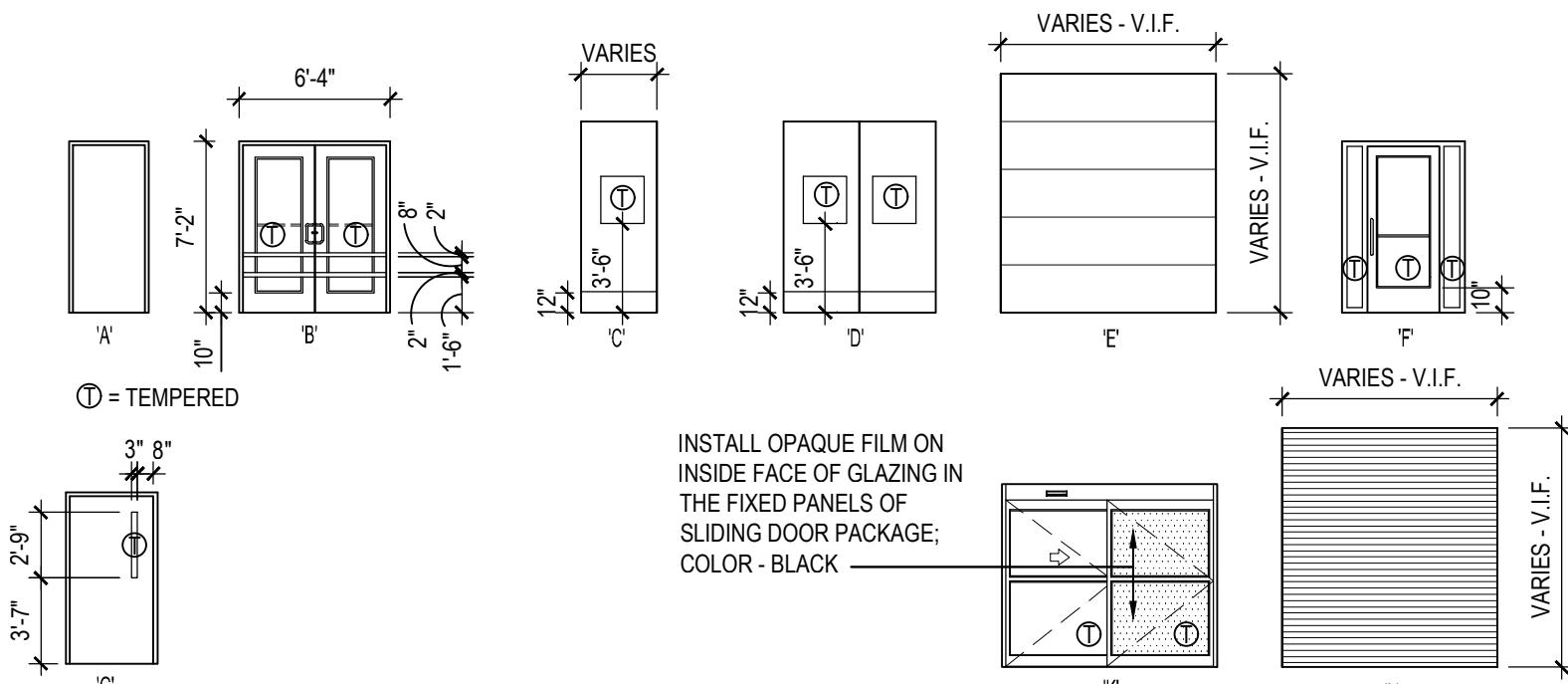
ONYX CREATIVE, INC.
25001 EMERY ROAD, SUITE 400
CLEVELAND, OH 44128
216-223-3200

HARDWARE SCHEDULE

SET#	QTY	ITEM	MFR
1A	1 EA	MORTISE CYLINDER - 28107-1 - 26D CYLINDER CORE - 1CC7A2 - GREEN	ILC BEST ILC
1A	1 EA	MORTISE THUMB TURN - CYLINDER-26D BALANCE OF HARDWARE BY DOOR SUPPLIER	
2	ALL HARDWARE BY DOOR SUPPLIER		
11	1 EA	RIM EXIT DEVICE - V40 X48 X CD X EB W - 628 1 EA 1 EA 1 EA 1 EA	DET ILC BES DET
		MORTISE CYLINDER - 28107-1 - 26D CYLINDER CORE - 1CC7A2 - GREEN GATE HARDWARE - GTPKIT-BLK - BLACK SIGN, "THIS GATE TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED" - 1" HIGH LETTERS ON A CONTRASTING BACKGROUND	

DOOR SCHEDULE

NO.	SIZE	TYPE	MATERIAL	FRAME	RATING	hardware	REMARKS
1	10'-0" X 10'-0"	E	INSUL MTL.	MTL.		2	1, 12, 15, & 26
2	9'-0" X 7'-8" (PACKAGE)	K	STOREFRONT GLASS	ALUM.		1A	10, 13 & 14
6	(2) 3'-0" X 8'-0"	D	CHASE IMPACT DOORS	MTL.		2	16, 18, & 24
6a	(2) 3'-0" X 8'-0"	D	CHASE IMPACT DOORS	MTL.		2	16, 18, & 24
G1	V.I.F. EXISTING 4'-0" X 8'-0"	GATE	EXISTING	EXIST.		11	SEE 5/AS1.1
G2	V.I.F. EXISTING 4'-0" X 8'-0"	GATE	EXISTING	EXIST.		11	SEE 5/AS1.1



ALTERNATED COLOR SCHEDULE

EXTERIOR BUILDING FINISHES:	
CONCRETE MASONRY UNITS FOR CONVENTIONAL BUILDINGS.	
PPG PAINTS ACRYLIC SYSTEM FLAT FINISH - COLOR TO MATCH PPG1021-4 DIVERSION TO 4'-0" A.F.F., PPG1097-4 DUSTY TRAIL FROM 4'-0" A.F.F. TO TOP OF C.M.U. ON ALL SIDES	
1ST COAT: PPG PERMA-CRETE BLOCK SURFACER, 4-100X1 (60-100 SQ FT/ GAL @ 16 MILS WET, 9 MILS DRY) 2ND COAT: PPG PERMA-CRETE HIGH BUILD ACRYLIC COATING, 4-22X1 3RD COAT: PPG PERMA-CRETE HIGH BUILD ACRYLIC COATING, 4-22X1 (12 MILS WET, 5 MILS DRY PER COAT) (ACCEPTABLE TOLERANCE IS 9-10 PINHOLES PER SQ. FT.)	
NOTE: APPLICATIONS MAY UTILIZE BRUSH, ROLLER OR AIRLESS SPRAYER; HOWEVER, ALL COATS MUST BE BACK-ROLLED. SEE SHERWIN WILLIAMS DATA SHEET APPLICATION RECOMMENDATIONS	
RED ACCENT STRIPE (CONCRETE MASONRY UNITS) HIGH GLOSS FINISH - COLOR TO MATCH PC895 SAFETY RED ON FRONT, RIGHT, AND LEFT SIDE 2 COATS: PPG PSX ONE HIGH SOLIDS SINGLE COMPONENT POLYSILOXANE, PXONET4 SAFETY RED APPLY AS NEEDED FOR COMPLETE COVERAGE (NO CLEAR COAT NEEDED)	
LIGHTING POLE BASES GLOSS FINISH - COLOR TO BE PPG SAFETY YELLOW 1ST COAT: PPG PERMA-CRETE BLOCK SURFACER, 4-100X1 (60-100 SQ FT/GAL @ 16 MILS WET, 9 MILS DRY) 2ND COAT: PPG PERMA-CRETE HIGH BUILD ACRYLIC COATING, 4-22X1 3RD COAT: PPG PERMA-CRETE HIGH BUILD ACRYLIC COATING, 4-22X1 (APPLY AS NEEDED FOR COMPLETE COVERAGE) (NO TINTING REQUIRED - PACKAGE SAFETY YELLOW)	
E.I.F.S. E.I.F.S. (ACCENT) DRYVIT, COLOR MATCH TO PXONET4 SAFETY RED	
INTERIOR FINISHES:	
MASONRY (CONCRETE, SCORED, SMOOTH, HIGH/LOW DENSITY) SEMI-GLOSS FINISH - COLOR TO MATCH PPG1001-1 DELICATE WHITE 1ST COAT: PPG SPEEDHIDE BLOCK FILLER, 6-15X1 (75-125 SQ. FT./GAL @ 16 MILS WET, 8 MILS DRY) 2ND COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510X1 3RD COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510X1 (4 MILS WET, 1.3 MILS DRY PER COAT)	
NOTE: APPLICATIONS MAY UTILIZE BRUSH, ROLLER OR AIRLESS SPRAYER; HOWEVER, ALL COATS MUST BE BACK-ROLLED. SEE PPG DATA SHEET APPLICATION RECOMMENDATIONS	
OUTER CORE AREAS DRYWALL (WALLS, GYPSUM BOARD, PLASTER BOARD, ETC.) SEMI-GLOSS FINISH - COLOR TO MATCH PPG1001-1 DELICATE WHITE)	
1ST COAT: PPG SPEEDHIDE ZERO LATEX PRIMER, 6-4900X1 (4 MILS WET, 1.3 MILS DRY PER COAT) 2ND COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510X1 3RD COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510X1 (4 MILS WET, 1.3 MILS DRY PER COAT)	
INNER CORE AREAS SEMI-GLOSS FINISH - (COLOR TO MATCH PPG1024-3 CRUSHED SILK)	
1ST COAT: PPG SPEEDHIDE ZERO LATEX PRIMER, 6-4900X1 (4 MILS WET, 1.3 MILS DRY PER COAT) 2ND COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510X1 3RD COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510X1 (4 MILS WET, 1.3 MILS DRY PER COAT)	
RED ACCENT STRIPE (IN RETAIL SALES AREA - 10'-3" TO BOTTOM OF STRIPE, 12" STRIPE) SEMI-GLOSS FINISH - PPG SAFETY RED 1ST COAT: PPG SPEEDHIDE ZERO LATEX PRIMER, 6-4900X1 (4 MILS WET, 1.3 MILS DRY) 2ND COAT: PPG ACCENT COLOR BASE LATEX SEMI-GLOSS, 25-250 3RD COAT: PPG ACCENT COLOR BASE LATEX SEMI-GLOSS, 25-250 (4 MILS WET, 1.5 MILS DRY PER COAT)	
EXPOSED DECK & JOISTS (PRE-PRIMED GREY) PREFERRED OR AS APPROVED BY TSC	
INTERIOR COLUMNS (METAL) GLOSS FINISH - COLOR TO MATCH PPG1007-5 LAZY AFTERNOON 1ST COAT: PPG MULTIPRIME UNIVERSAL METAL PRIMER, 94-269 (6.0 - 8.0 MILS WET) 3.0 - 4.0 MILS DRY PER COAT)	
2ND COAT: SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510X1 3RD COAT: SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510X1 (4 MILS WET, 1.3 MILS DRY PER COAT)	
1ST COAT: FACTORY PRIMED REMAINING COATS: FACTORY FINISHED TOUCH-UP PAINT PROVIDED BY DH PACE	
METAL DOOR FRAMES GLOSS FINISH - (COLOR TO MATCH PPG1007-5 LAZY AFTERNOON)	
1ST COAT: FACTORY PRIMED 2ND COAT: PPG SPEEDHIDE PRO-EV LATEX, SEMI-GLOSS, 12-510X1 3RD COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510X1 (4 MILS WET, 1.3 MILS DRY PER COAT)	
1ST COAT: FACTORY PRIMED 2ND COAT: PPG PITTECH PLUS DTM GLOSS, 90-1310 3RD COAT: PPG PITTECH PLUS DTM GLOSS, 90-1310 (5 MILS WET, 2 MILS DRY PER COAT)	

COLOR SCHEDULE

EXTERIOR BUILDING FINISHES:	
22 GAUZE GALVANIZED CORRUGATED STEEL PANEL - 'MATTE / WEATHERED' FINISH GALVANIZED STANDING SEAM METAL ROOFING (ROOF AT VESTIBULE GABLE)	
METAL SIDING 26 GA. MTL. REVERSE R" PANEL - COLOR TO BE DETERMINED BASED ON BUILDING TYPE ON PRE ENGINEERED BUILDINGS	
CONCRETE MASONRY UNITS AND EXTERIOR CONCRETE MOISTURE CONTENT CRITERIA. GENERAL CONTRACTOR, OR THE OWNERS TESTING COMPANY SHALL PROVIDE MOISTURE TESTING OF ALL CMU AND CONCRETE EXTERIOR WALL PER ASTM D4263 PRIOR TO APPLICATION OF PAINT. TSC PROJECT MANAGER MUST APPROVE THE APPLICATION OF PAINT IN WRITING, IF THE MOISTURE CONTENT IS ABOVE 15%.	
CONCRETE MASONRY UNITS FOR CONVENTIONAL BUILDINGS. ELASTOMERIC SYSTEM	
FLAT FINISH - COLOR TO MATCH SW7513 SANDERLING TO 4'-0" A.F.F., SW7532 URBAN PUTTY FROM 4'-0" A.F.F. TO TOP OF C.M.U. ON ALL SIDES	
1ST COAT: S-W LOXON ACRYLIC BLOCK SURFACER, LX01W2000 (50-100 SQ FT/GAL @ 16 MILS WET, 8 MILS DRY) 2ND COAT: S-W CONPLEX XL SMOOTH HIGH BUILD ACRYLIC COATING, CF11 SERIES 3RD COAT: S-W CONPLEX XL SMOOTH HIGH BUILD ACRYLIC COATING, CF11 SERIES (16 MILS WET, 7.5 MILS DRY PER COAT) (ACCEPTABLE TOLERANCE IS 9-10 PINHOLES PER SQ. FT.)	
NOTE: APPLICATIONS MAY UTILIZE BRUSH, ROLLER OR AIRLESS SPRAYER; HOWEVER, ALL COATS MUST BE BACK-ROLLED. SEE SHERWIN WILLIAMS DATA SHEET APPLICATION RECOMMENDATIONS	
RED ACCENT STRIPE (CONCRETE MASONRY UNITS) HIGH GLOSS FINISH - COLOR TO MATCH PC895 SAFETY RED ON FRONT, RIGHT, AND LEFT SIDE 2 COATS: PPG PSX ONE HIGH SOLIDS SINGLE COMPONENT POLYSILOXANE, PXONET4 SAFETY RED APPLY AS NEEDED FOR COMPLETE COVERAGE (NO CLEAR COAT NEEDED)	
LIGHTING POLE BASES GLOSS FINISH - COLOR TO BE PPG SAFETY YELLOW 1ST COAT: PPG PERMA-CRETE BLOCK SURFACER, 4-100X1 (60-100 SQ FT/GAL @ 16 MILS WET, 9 MILS DRY) 2ND COAT: PPG PERMA-CRETE HIGH BUILD ACRYLIC COATING, 4-22X1 3RD COAT: PPG PERMA-CRETE HIGH BUILD ACRYLIC COATING, 4-22X1 (APPLY AS NEEDED FOR COMPLETE COVERAGE) (NO TINTING REQUIRED - PACKAGE SAFETY YELLOW)	
E.I.F.S. E.I.F.S. (ACCENT) DRYVIT, COLOR MATCH TO PXONET4 SAFETY RED	
INTERIOR FINISHES:	
MASONRY (CONCRETE, SCORED, SMOOTH, HIGH/LOW DENSITY) SEMI-GLOSS FINISH - COLOR TO MATCH PPG1001-1 DELICATE WHITE 1ST COAT: PPG SPEEDHIDE BLOCK FILLER, 6-15X1 (75-125 SQ. FT./GAL @ 16 MILS WET, 8 MILS DRY) 2ND COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510X1 3RD COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510X1 (4 MILS WET, 1.3 MILS DRY PER COAT)	
NOTE: APPLICATIONS MAY UTILIZE BRUSH, ROLLER OR AIRLESS SPRAYER; HOWEVER, ALL COATS MUST BE BACK-ROLLED. SEE PPG DATA SHEET APPLICATION RECOMMENDATIONS	
OUTER CORE AREAS DRYWALL (WALLS, GYPSUM BOARD, PLASTER BOARD, ETC.) SEMI-GLOSS FINISH - COLOR TO MATCH PPG1001-1 DELICATE WHITE)	
1ST COAT: PPG SPEEDHIDE ZERO LATEX PRIMER, 6-4900X1 (4 MILS WET, 1.3 MILS DRY PER COAT) 2ND COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510X1 3RD COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510X1 (4 MILS WET, 1.3 MILS DRY PER COAT)	
INNER CORE AREAS SEMI-GLOSS FINISH - (COLOR TO MATCH PPG1024-3 CRUSHED SILK)	
1ST COAT: PPG SPEEDHIDE ZERO LATEX PRIMER, 6-4900X1 (4 MILS WET, 1.3 MILS DRY PER COAT) 2ND COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510X1 3RD COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510X1 (4 MILS WET, 1.3 MILS DRY PER COAT)	
RED ACCENT STRIPE (IN RETAIL SALES AREA - 10'-3" TO BOTTOM OF STRIPE, 12" STRIPE) SEMI-GLOSS FINISH - PPG SAFETY RED 1ST COAT: PPG SPEEDHIDE ZERO LATEX PRIMER, 6-4900X1 (4 MILS WET, 1.3 MILS DRY) 2ND COAT: PPG ACCENT COLOR BASE LATEX SEMI-GLOSS, 25-250 3RD COAT: PPG ACCENT COLOR BASE LATEX SEMI-GLOSS, 25-250 (4 MILS WET, 1.5 MILS DRY PER COAT)	
EXPOSED DECK & JOISTS (PRE-PRIMED GREY) PREFERRED OR AS APPROVED BY TSC	
INTERIOR COLUMNS (METAL) GLOSS FINISH - COLOR TO MATCH PPG1007-5 LAZY AFTERNOON	
1ST COAT: PPG MULTIPRIME UNIVERSAL METAL PRIMER, 94-269 (6.0 - 8.0 MILS WET) 3.0 - 4.0 MILS DRY PER COAT)	
2ND COAT: SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510X1 3RD COAT: SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510X1 (4 MILS WET, 1.3 MILS DRY PER COAT)	
1ST COAT: FACTORY PRIMED REMAINING COATS: FACTORY FINISHED TOUCH-UP PAINT PROVIDED BY DH PACE	
METAL DOOR FRAMES GLOSS FINISH - (COLOR TO MATCH PPG1007-5 LAZY AFTERNOON)	
1ST COAT: FACTORY PRIMED 2ND COAT: PPG SPEEDHIDE PRO-EV LATEX, SEMI-GLOSS, 12-510X1 3RD COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510X1 (4 MILS WET, 1.3 MILS DRY PER COAT)	
1ST COAT: FACTORY PRIMED 2ND COAT: PPG PITTECH PLUS DTM GLOSS, 90-1310 3RD COAT: PPG PITTECH PLUS DTM GLOSS, 90-1310 (5 MILS WET, 2 MILS DRY PER COAT)	
EXPOSED CONDUIT IN RETAIL SALES AREA GC TO PAINT EXPOSED CONDUIT IN RETAIL SALES AREA TO MATCH INTERIOR WALL FINISH	
EXPOSED DECK & JOISTS (PRE-PRIMED GREY) PREFERRED OR AS APPROVED BY TSC	
INTERIOR COLUMNS (METAL) GLOSS FINISH - COLOR TO MATCH SW1012 POWER GREY	
1ST COAT: S-W PREPRITE BLOCK FILLER B25W25 (4 MILS WET, 1.3 MILS DRY PER COAT) 2ND COAT: S-W PROMAR 400 ZERO VOC INTERIOR LATEX PRIMER, B28W0260 3RD COAT: S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31W04651 SERIES (4 MILS WET, 1.3 MILS DRY PER COAT)	
INNER CORE AREAS SEMI-GLOSS FINISH - (COLOR TO MATCH SW7036 ACCESSIBLE BEIGE.)	
1ST COAT: S-W PREPRITE 200 ZERO VOC INTERIOR LATEX PRIMER, B28W0260 (4 MILS WET, 1.3 MILS DRY PER COAT) 2ND COAT: S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31W04651 SERIES 3RD COAT: S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31W04651 SERIES (4 MILS WET, 1.3 MILS DRY PER COAT)	
RED ACCENT STRIPE (IN RETAIL SALES AREA - 10'-3" TO BOTTOM OF STRIPE, 12" STRIPE) SEMI-GLOSS FINISH - SW4081 SAFETY RED 1ST COAT: S-W PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER, B28W0260 (4 MILS WET, 1.2 MILS DRY) 2ND COAT: S-W PROMAR 200 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31R02658 3RD COAT: S-W PROMAR 200 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31R02658 (4 MILS WET, 1.2 MILS DRY PER COAT)	
EXPOSED CONDUIT IN RETAIL SALES AREA GC TO PAINT EXPOSED CONDUIT IN RETAIL SALES AREA TO MATCH INTERIOR WALL FINISH	
EXPOSED DECK & JOISTS (PRE-PRIMED GREY) PREFERRED OR AS APPROVED BY TSC	
INTERIOR COLUMNS (METAL) GLOSS FINISH - COLOR TO MATCH SW1012 POWER GREY	
1ST COAT: S-W KEN KROMIX UNIVERSAL METAL PRIMER, B50Z SERIES (6.0 - 8.0 MILS WET) 3.0 - 4.0 MILS DRY PER COAT) 2ND COAT: S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31W04651 SERIES 3RD COAT: S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31W04651 SERIES (4 MILS WET, 1.3 MILS DRY PER COAT)	
EXTERIOR METAL AND INTERIOR WOOD DOORS: (COLOR TO MATCH SW1012, POWER GREY)	
1ST COAT: FACTORY PRIMED REMAINING COATS: FACTORY FINISHED TOUCH-UP PAINT PROVIDED BY DH PACE	
METAL DOOR FRAMES GLOSS FINISH - COLOR TO MATCH SW1012, POWER GREY	
1ST COAT: FACTORY PRIMED 2ND COAT: S-W PRO INDUSTRIAL WATERBASED ALKYD URETHANE ENAMEL B53W01051 SERIES 3RD COAT: S-W PRO INDUSTRIAL WATERBASED ALKYD URETHANE ENAMEL B53W01051 SERIES (4 MILS WET, 1.6 MILS DRY PER COAT)	
VINY PLANK FLOORING SW	

Part 1 - General

1.01 Quality Assurance

A. 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."

1. MANUFACTURER CERTIFIED ACCORDING TO NRMCA'S "CERTIFICATION OF READY-MIXED CONCRETE PRODUCTION FACILITIES." CERTIFICATION SHALL NOT BE MORE THAN TWELVE MONTHS OLD.
2. CONCRETE CONTRACTOR QUALIFICATION: CONCRETE CONTRACTOR SHALL INCLUDE IN THEIR BID PACKAGE TO THE GENERAL 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 CORRECTED CONTRACTOR'S BID SHALL INCLUDE THE NAME OF THE MANUFACTURED OF THE REMEDIED PRODUCTS, AND THAT THE ITEM SHALL REMAIN THE SAME THROUGHOUT THE DURATION OF THE PROJECT. CONCRETE CONTRACTOR'S QUALIFICATION SHALL BE SUBMITTED AS PART OF THE BID PACKAGE. THE OWNER HAS RIGHTS TO REJECT THE CONCRETE CONTRACTOR.
3. TESTING AGENCY QUALIFICATIONS: AN INDEPENDENT AGENCY, QUALIFIED ACCORDING TO ASTM C1077 AND ASTM E329 FOR TESTING INDICATED, AS DOCUMENTED ACCORDING TO ASTM E549.

 1. 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.
 2. 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.

4. TRAINED APPLICATOR: GENERAL CONTRACTORS BIDDING OR NEGOTIATING A TRACTOR SUPPLY PROJECT SHALL CONTACT EUCLID 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. THE TRAINED APPLICATOR SELECTED FOR THE INITIAL APPLICATION OF JOINT FILLER AND LIQUID DENSIFIER/SEALER SHALL BE THE SAME AS FOR THE POLISHING PROCESS AND ADDITIONAL APPLICATION OF LIQUID DENSIFIER/SEALER.
5. PHILIP BRANDT: EUCLID CHEMICAL - 877-438-3826 / PBRANDT@EUCLIDCHEMICAL.COM
6. CONCRETE SLAB ON GROUND PRE-INSTALLATION CONFERENCE (TRACTOR SUPPLY REQUIREMENT): AT LEAST 30 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 10 DAYS PRIOR TO THE SCHEDULED DATE OF THE CONFERENCE.
7. 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:

 - a. GENERAL CONTRACTOR / PROJECT MANAGER AND SUPERINTENDENT
 - b. READY-MIX CONCRETE PRODUCER, QUALITY CONTROL MANAGER
 - c. CONCRETE CONTRACTOR, FORMER
 - d. TESTING AGENCY: PROJECT MANAGER AND FIELD REP FOR CONCRETE MIXES, QUALITY CONTROL, FLOOR TOLERANCE TESTING, ETC.
 - e. OWNER REPRESENTATIVE, IF REQUIRED
 - f. TRAINED APPLICATOR: LIQUID DENSIFIER/SEALER AND JOINT FILLING APPLICATOR
 - g. PHILIP BRANDT: EUCLID CHEMICAL (877-438-3826) PBRANDT@EUCLIDCHEMICAL.COM

8. 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.
9. 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.
10. THE MINUTES SHALL INCLUDE A STATEMENT BY THE CONCRETE CONTRACTOR THAT THE PROPOSED CONCRETE MIX DESIGNS WILL PROVIDE APPROPRIATE WORKABILITY AND SETTING TIMES, TO ENSURE THAT THE CONCRETE CONTRACTOR CAN ACHIEVE THE REQUIREMENTS OF THIS SPECIFICATION.

Part 2 - Products

2.01 Materials

A. CONCRETE MATERIALS:

1. PORTLAND CEMENT: ASTM C150/C150M, TYPE III, OR ASTM C-595, TYPE II (PORTLAND LIMESTONE CEMENT). USE ONE BRAND OF CEMENT THROUGHOUT THE PROJECT.
2. COARSE AND FINE AGGREGATES: ASTM C 33. COMBINED AGGREGATE GRADATION FOR SLABS ON GRADE AND OTHER DESIGNS. CONCRETE SLABS BE 10% - 18% FOR LARGE TOP SIZE AGGREGATES (1") OR 8% - 22% FOR SMALLER TOP SIZE AGGREGATES. OR 8% - 22% FOR SMALLER TOP SIZE AGGREGATES (1") OR 8% - 22% FOR SMALLER TOP SIZE AGGREGATES. a. FOOTINGS AND PIERS: UNLESS INDICATED OTHERWISE ON DRAWINGS, FOOTINGS AND PIERS SHALL HAVE A MAXIMUM AGGREGATE SIZE OF 1" (65 STONE), AND DEIMS 1/4" (65 STONE).
- b. INTERIOR SLAB ON GROUND UNLESS INDICATED OTHERWISE ON DRAWINGS, INTERIOR SLAB ON GROUND SHALL HAVE A MAXIMUM COARSE AGGREGATE SIZE OF 1" (65 STONE).
- c. EXTERIOR SLAB ON GROUND UNLESS INDICATED OTHERWISE ON DRAWINGS, EXTERIOR SLAB ON GROUND SHALL HAVE A MAXIMUM COARSE AGGREGATE SIZE OF 1" (65 STONE).
3. WATER: COMPLYING WITH ASTM C94.
4. AIR-ENTRAINING ADMIXTURE (INTERIOR SLAB ON GROUND): AIR-ENTRAINING ADMIXTURE SHALL NOT BE USED FOR INTERIOR SLAB ON GROUND CONCRETE WORK.
5. AIR-ENTRAINING ADMIXTURE (EXTERIOR SLAB ON GROUND CONCRETE): ASTM C-260. ADMIXTURE 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 A92-OR OR A90-MASTER BUILDERS SOLUTIONS MICRO ACR, GRACE CONSTRUCTION PRODUCTS DARAVAR OR DAREX).
6. WATER-REDUCING ADMIXTURE: ASTM C494, TYPE A CONTAINING NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL EUCON SERIES; MASTER BUILDERS SOLUTIONS POZZOLITH SERIES; GRACE CONSTRUCTION PRODUCTS WRDA OR DARECAM SERIES.
7. WATER-REDUCING RETARDING ADMIXTURE: ASTM C494, TYPE D CONTAINING NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL RETARDER 75; MASTER BUILDERS SOLUTIONS POZZOLITH SERIES OR DELVO; GRACE CONSTRUCTION PRODUCTS DARADART 17.
8. 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 SOLUTIONS RHEOBUILD 1000; GRACE CONSTRUCTION PRODUCTS DARACEM-10.
9. 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 FOR AT LEAST 1 YEAR'S DURATION) USING AN ACCEPTABLE ACCELERATED CORROSION TEST METHOD SUCH AS THAT USING ELECTRICAL POTENTIAL MEASURES, ACCEPTABLE PRODUCTS: EUCLID CHEMICAL RODGARD 8090 OR NCA; MASTER BUILDERS SOLUTIONS NC594 OR POZZOLITE 20; GRACE CONSTRUCTION PRODUCTS POLARSET.
10. PROTECTIVE ADMIXTURES:

 - a. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING MORE THAN 0.05% CHLORIDE IONS ARE NOT PERMITTED.
 - b. FLY ASH IS ONLY PERMITTED IN EXTERIOR SLAB ON GROUND SUBJECT TO ALKALI SILICA REACTIVITY (ASR); UP TO 20% EXCHANGE BY WEIGHT.

11. MACRO-SYNTHETIC FIBERS (INTERIOR AND EXTERIOR SLAB ON GROUND CONCRETE): COMPLY WITH ASTM C116. "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.
- a. ACCEPTABLE MACRO-SYNTHETIC FIBER (NO SUBSTITUTIONS): "TUF-STRAND SF" BY EUCLID CHEMICAL. PHIL BRANDT 877-438-3826 / PBRANDT@EUCLIDCHEMICAL.COM
12. EXPANSION RETARDER AND FINISH AID: INTEGRAL FINISHING AID THAT REDUCES RAPID MOISTURE LOSS FROM CONCRETE SURFACE.
- a. ACCEPTABLE PRODUCT: "EUCOHIELD" BY EUCLID CHEMICAL.

RELATED MATERIALS:

1. EVAPORATION RETARDER: WATERBORNE, MONOMOLECULAR FILM FORMING, MANUFACTURED FOR APPLICATION TO FRESH CONCRETE.
- a. ACCEPTABLE MANUFACTURER: "EUCOBAR" BY EUCLID CHEMICAL.
2. INTERIOR SLAB ON GROUND CURING: ASTM C399 WITH A MAXIMUM VOC CONTENT OF 350G/L. THE INTERIOR SLAB 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.
3. INTERIOR SLAB ON GROUND SEMI-RIGID POLYUREA JOINT FILLER: COMPLY WITH ACI 302. SHALL BE A TWO (2) COMPONENT, 100% SOLIDS, UV RESISTANT COMPOUND, WITH MINIMUM SHORE "A" HARDNESS OF 80. COLOR TO MATCH ADJACENT CONCRETE SURFACES.
- a. ACCEPTABLE MANUFACTURER: "QUINTIKLON UV" BY EUCLID CHEMICAL.
4. INTERIOR SLAB ON GROUND LIQUID DENSIFIER/SEALER: SEMI-RIGID CONCRETE CONTAINING AT LEAST 24% SOLIDS BY WEIGHT.
- a. ACCEPTABLE MANUFACTURER: "TICO DIAMOND HARD" BY EUCLID CHEMICAL.
5. 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/SEALER, FOR JOBSITE SERVICE. IF NECESSARY, THE REPRESENTATIVE WILL BE ON SITE DURING THE FIRST APPLICATION OF LIQUID DENSIFIER/SEALER.
6. EXTERIOR SLAB ON GROUND CURING: ASTM C115 WITH A MAXIMUM VOC CONTENT OF 700 G/L. ALL EXTERIOR SLAB ON GROUND SHALL BE CURED USING A LIQUID MEMBRANE-FORMING CURING COMPOUND.
- a. ACCEPTABLE MANUFACTURER: "SUPER DIAMOND CLEAR" OR "SUPER DIAMOND CLEAR VOX" BY EUCLID CHEMICAL.
7. 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 250%.
- a. ACCEPTABLE MANUFACTURER: "EUCOLASTIC 1 NS1SL" BY EUCLID CHEMICAL.

2.02 CONCRETE MIXES

1. COMPLY WITH ACI 301 REQUIREMENTS FOR CONCRETE MIXES. CONCRETE MIXES SHALL BE PROPORTIONED ACCORDING TO ACI 301, FOR NORMAL-WEIGHT CONCRETE DETERMINED BY EITHER LABORATORY TRAIL MIX OR FIELD TEST DATA.
2. COMPRESSIVE STRENGTH:

 1. INTERIOR SLAB ON GROUND: 4000 PSI @ 28 DAYS, WITH A MAXIMUM WATER/CEMENT RATIO OF 0.53, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
 2. EXTERIOR SLAB ON GROUND: 4000 PSI @ 28 DAYS, WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
 3. CONCRETE MATERIALS INCLUDED IN THE MIX DESIGN SHALL BE THE SAME MATERIALS PROVIDED TO THE PROJECT AND SHALL BE PREPARED BY AN INDEPENDENT TESTING LABORATORY APPROVED BY THE OWNER. PER ACI REQUIREMENTS, IF SUFFICIENT BACKUP DATA IS NOT AVAILABLE, THE LABORATORY MIX SHALL EXCEDE THE DESIRED JOB STRENGTH OF CONCRETE BY 1,200 PSI. FOUR COPIES OF THE MIX SHALL BE SUBMITTED TO THE OWNER BEFORE CONCRETE WORK BEGINS.
 4. SLUMP: CONCRETE SHALL HAVE A MAXIMUM SLUMP OF 5 1/2" FOR THE INTERIOR AND EXTERIOR SLABS ON GROUND, UNLESS INDICATED ON DRAWINGS. ALL OTHER CONCRETE SHALL NOT EXCEED A 4" SLUMP.

D. MACRO-SYNTHETIC FIBER ADDITION: ALL EXTERIOR SLAB ON GROUND SHALL CONTAIN THE SPECIFIED MACRO-SYNTHETIC FIBER USED AT A RATE OF NO LESS THAN 3.0 LBS./CYD. ACTUAL FIBER DOSAGE MAY VARY BASED ON JOB-SITE CONDITIONS AND SHALL BE CALCULATED BY STRENGTH EQUIVALENT TO CONVENTIONAL REINFORCEMENT REQUIREMENTS. REQUIRED INFORMATION MAY INCLUDE, BUT NOT BE LIMITED TO SITE PREP, SUBBASE, AND CONCRETE PROPERTIES, CURING, AND LOADING CONDITIONS. THE "ENGINEER OF RECORD" SHALL CONTACT EUCLID CHEMICAL TO DISCUSS ACTUAL PROJECT CONDITIONS AND THE RESULTANT REQUIRED FIBER DOSAGE RATE. FIBERS MAY BE ADDED AT PLANT LOCATION OR JOBSITE AND SHALL BE MIXED IN CONCRETE FOR A MINIMUM OF 4 MINUTES.

EUCLID CONTACT: MIKE MAHONEY: 216-692-8301

E. ADJUSTMENT TO CONCRETE MIXES: MIX ADJUSTMENTS MAY BE REQUESTED BY THE GENERAL CONTRACTOR WHEN CHARACTERISTICS OF MATERIALS, JOB CONDITIONS, WEATHER, TEST RESULTS OR OTHER CIRCUMSTANCES WARRANT; AT NO ADDITIONAL COST TO THE OWNER AND AS ACCEPTED BY THE OWNER. LABORATORY TEST DATA FOR REVISED MIX AND STRENGTH RESULTS MUST BE SUBMITTED TO AND ACCEPTED BY THE OWNER PRIOR TO WORK. TESTING AGENCY AND CONCRETE CONTRACTOR SHALL VERIFY THAT THE CONCRETE MIX DESIGN WILL PRODUCE CONCRETE THAT WILL MEET THE SPECIFICATIONS FOR THIS PROJECT. IN ADDITION, THE GENERAL CONTRACTOR AND CONCRETE CONTRACTOR SHALL VERIFY THAT THE WORKABILITY, FINISHABILITY AND SETTING TIMES ARE APPROPRIATE FOR CONCRETE INSTALLATIONS. PLACEMENT SHALL BE MADE BY CONCRETE TRUCK CHUTE. IF CONCRETE PUMPING IS REQUIRED, THE PROPORTIONS ESTABLISHED ABOVE SHALL NOT BE ALTERED TO SUIT THE CAPABILITIES OF THE PUMPING EQUIPMENT. FOR CONCRETE CONTAINING MACRO-SYNTHETIC FIBERS, ADDITIONAL WATER REDUCTION MAY BE NECESSARY. THE ADDITION OF WATER IS NOT PERMITTED INTO CONCRETE MIXTURE AFTER THE ADDITION OF MACRO-SYNTHETIC FIBERS.

F. INTERIOR SLAB ON GROUND CONCRETE: CONCRETE SHALL BE DESIGNED TO MEET 4000 PSI COMPRESSIVE STRENGTH @ 28 DAYS AND 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 ADMIXTURE, AND ACHIEVE A W/C RATIO OF 0.53 (MAX.). AIR-ENTRAINMENT IS PROHIBITED. PROPOSED MIX DESIGN SHALL BE SIMILAR TO THE FOLLOWING:

MATERIALS	PROTOTYPE MIX
CEMENT	517-564LBS.
FLY ASH/SLAG	PROHIBITED
COARSE AGGREGATE	12 CUBIC FEET +/- .50 (#57 STONE)
FINE AGGREGATE	7 CUBIC FEET +/- (ADJUST AS NECESSARY)
WATER CONTENT	274 - 298 LBS.
AIR CONTENT	3.0% (MAX.)
(ENTRAPPED AIR ONLY)	
WATER REDUCER (TYPE A/F)	30Z-10 OZ. / 100WT +/- (MID-RANGE)
W/C RATIO	0.53 (MAX.)
INITIAL SLUMP (WATER)	3"
FINAL SLUMP	5.5" (MAX.)
(WITH WATER REDUCER)	
MAXIMUM SHRINKAGE	<0.04% @ 28 DAYS

G. EXTERIOR SLAB ON GROUND CONCRETE: CONCRETE SHALL BE DESIGNED TO MEET 4000 PSI COMPRESSIVE STRENGTH @ 28 DAYS AND 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 ADMIXTURE AND ACHIEVE A W/C RATIO OF 0.45 (MAX.). AIR-ENTRAINMENT SHALL BE AS SPECIFIED. PROPOSED MIX DESIGN SHALL BE SIMILAR TO THE FOLLOWING:

MATERIALS	PROTOTYPE MIX
CEMENT	517-564 LBS.
FLY ASH/SLAG	PROHIBITED EXCEPT IN AREAS SUBJECT TO ALKALI SILICA REACTIVITY (UP TO 20% BY WEIGHT EXCHANGE)
COARSE AGGREGATE	12 CUBIC FEET +/- .50 (#57 STONE)
FINE AGGREGATE	7 CUBIC FEET +/- (ADJUST AS NECESSARY)
WATER CONTENT	232 - 253 LBS. (OR LESS)
AIR CONTENT (ENTRAINED AIR)	6.0% (MAX.)
WATER REDUCER (TYPE A/F)	30Z-100Z / 100WT +/- (MID-RANGE)
W/C	0.45 (MAX.)
INITIAL SLUMP (WATER)	3"
FINAL SLUMP	5.5" (MAX.)
(WITH WATER REDUCER)	
MACRO SYNTHETIC FIBER	3 LBS / CUBIC YARD (MIN.)
(TUF-STRAND SF)	
MAXIMUM SHRINKAGE	<0.04% @ 28 DAYS

Part 3 - Execution

3.01 Installation (General)

A. BASE MATERIAL: LOCAL STATE DEPARTMENT OF TRANSPORTATION APPROVED ROAD BASE MATERIAL WITH 100 PERCENT PASSING THE #51-30 MM (5/16") 45 PERCENT TO 65 PERCENT PASSING THE NO. 4 (1/16 MM) SIEVE, AND LESS THAN 10 PERCENT PASSING THE NO. 200 (SIEVE). INSTALL "CRUSHER RUN" BASE TYPE MATERIAL TO THE MINIMUM COMPACTED THICKNESS AS INDICATED ON THE CONSTRUCTION DOCUMENTS. CRUSHED STONE SHALL BE COMPACTED TO 98% MODIFIED PROCTOR DENSITY IN ACCORDANCE WITH ASTM D1557. THE IN-PLACE DENSITY SHALL BE TESTED FOR COMPLIANCE NO MORE THAN 48 HOURS PRIOR TO CONCRETE PLACEMENT USING ASTM D1565, ASTM D2167, OR ASTM D2922. ONE COPY OF TEST RESULTS SHALL BE FORWARDED TO THE OWNER.

B. FORMWORK: DESIGN, CONSTRUCT, ERECT, SHORE, BRACE, AND MAINTAIN FORMWORK ACCORDING TO ACI 301.

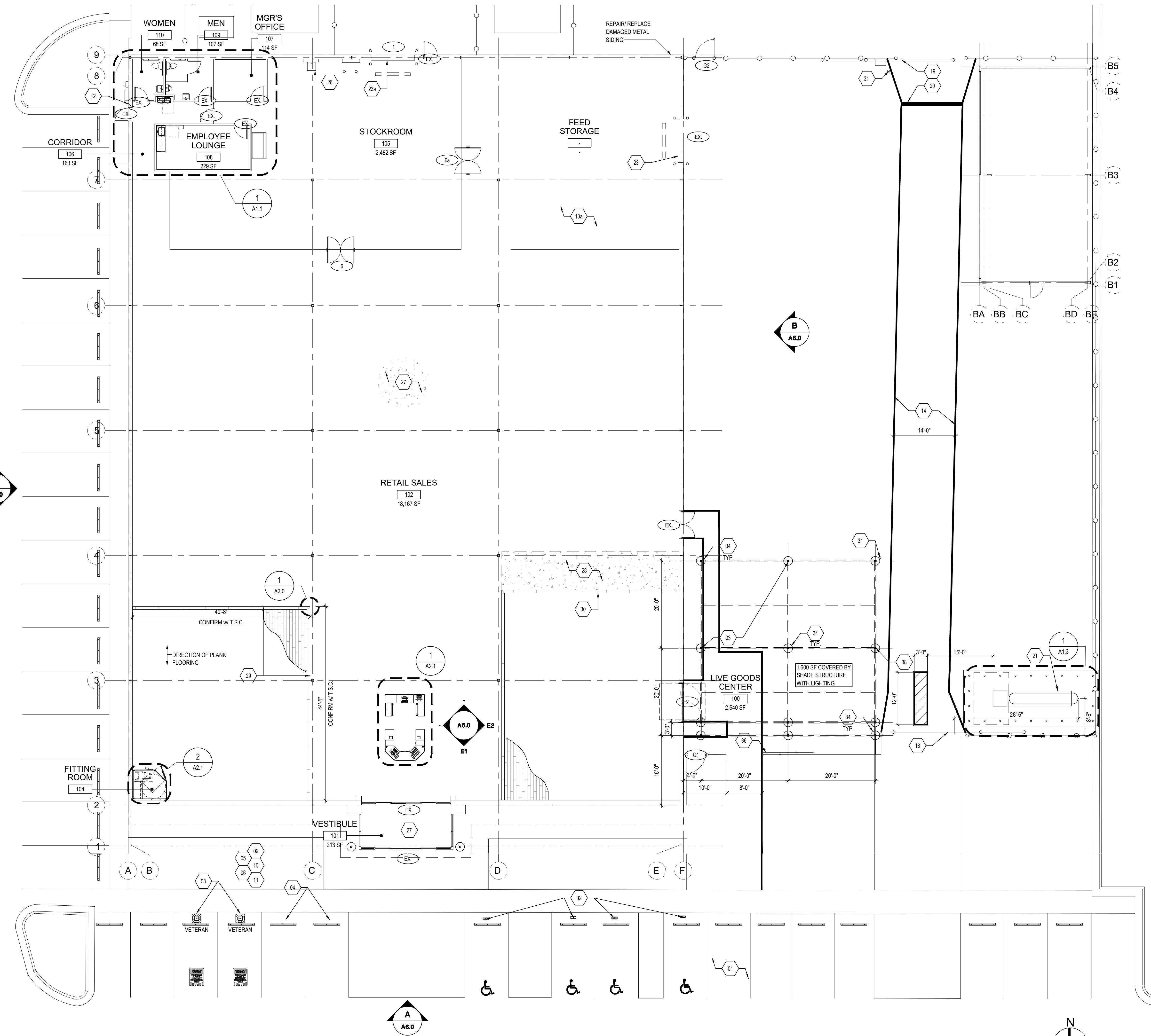
1. FORM WORK: FORM ALL SLABS, STAIRS AND OTHER FORMED CONCRETE WITH METAL FORMS OR 1/4" PLYWOOD. FOR EXPOSED SURFACES USE FORMS WITH AN UNDAMAGED FACE. FORM TIES USED SHALL BE SNAP TIES. CONCRETE RELEASE AGENT SHALL BE A VOC COMPLIANT, LIGHT VISCOSE, NON-STAINING OIL.
2. FORM WORK: DESIGN, CONSTRUCT, ERECT, SHORE, BRACE, AND MAINTAIN FORMWORK ACCORDING TO ACI 301. FORM TIES USED SHALL BE SNAP TIES. CONCRETE RELEASE AGENT SHALL BE A VOC COMPLIANT, LIGHT VISCOSE, NON-STAINING OIL.
3. VAPOR RETARDER: ASTM E1643 (AS INDICATED ON DRAWINGS); INSTALL, PROTECT, AND REPAIR VAPOR-RETARDER SHEETS; PLACE SHEETS IN POSITION WITH LONGEST DIMENSION PARALLEL WITH DIRECTION OF FLOOR.
4. 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.
5. STEEL REINFORCEMENT (IF INDICATED ON DRAWINGS): COMPLY WITH CRISI'S "MANUAL OF STANDARD PRACTICE" FOR FABRICATING, PLACING, AND SUPPORTING REINFORCEMENT.
6. PROTECTIVE ADMIXTURES: FILL ALL CRACKS AND Holes IN CONCRETE SLABS AND OTHER FORMED CONCRETE WITH REPAIR MATERIALS. REPAIR MATERIALS SHALL BE APPLIED TO THE FLOOR SURFACE AND REPAIRS SHALL BE MADE BY A VOC COMPLIANT, LIGHT VISCOSE, NON-STAINING OIL.
7. MACRO-SYNTHETIC

CODED NOTES

1. RESEAL & RE-STRIPE PARKING; TO INCLUDE ACCESSIBILITY MARKINGS, FIRE LANES, ETC.
2. REPLACE ACCESSIBLE PARKING SIGNS ON VENDOR #13 BLUE BUMPER POSTS
3. MOUNT (2) VETERAN PARKING SIGNS ON VENDOR #13 MOBILE BUMPER POSTS
4. RELOCATE (2) B.O.P.I.S. PARKING SIGNS ON VENDOR #13 MOBILE BUMPER POSTS
5. VENDOR TO PAINT PYLON POLE BLACK. DO NOT BID.
6. CLEAN BLDG SIGN PANELS & ENSURE BULBS ARE OPERATIONAL
7. NOT USED.
8. NOT USED.
9. CRACK FILL / PATCH STOREFRONT SIDEWALK TO ALLEVIATE TRIPPING HAZARDS & PRESSURE WASH.
10. FILL BASE OF BUILDING ON ALL ELEVATIONS; MUST CORRECT FLOODING UNDER WALLS.
11. CLEAN EFFLORESCENCE, TUCK-POINT ALL FAILING MORTAR JOINTS & RESOLVE ANY WATER PENETRATIONS PRIOR TO PAINTING FRONT, RIGHT, REAR, LEFT EXTERIOR. REFER TO A0.1 FOR COLOR SCHEDULE.
12. ENSURE THE HOSE BIB IS OPERATIONAL.
13. NOT USED.
- 13.a. CRACK FILL / PATCH FLOOR TO ALLEVIATE TRIPPING HAZARDS.
14. CRACK FILL / PATCH DRIVE AISLE PAVEMENT TO ALLEVIATE TRIPPING HAZARDS
15. NOT USED.
16. NOT USED.
17. NOT USED.
18. REPLACE GATE W/ 20' MANUAL ROLLING CANTILEVERED GATE. REFER TO 1/A1.1
19. REPLACE GATE W/ 20' AUTOMATIC ROLLING CANTILEVERED GATE W/ FEEDBACK LOOP @ OPERATOR. PROVIDE ADDITIONAL REMOTE KEY FOB TO STORE MANAGER. REFER TO 1/A1.1.
20. PAINT STOP BAR; COORDINATE WITH TSC PM
21. RELOCATE & RECONNECT PROPANE. INSTALL CANOPY W/ EXPLOSION PROOF LIGHT. PATCH PAVEMENT WHERE PROPANE, TRENCHING, & BOLLARDS WERE REMOVED.
22. NOT USED.
23. REPLACE OH DOOR SEALS, SWEEPS, & PLASTIC CURTAIN. GREASE & ADJUST AS NEEDED TO REUSE EXIST DOOR.
- 23.a. CONFIRM W/ TSC PM IF DOOR IS TO BE REMOVED & REPLACED. DOOR TO BE PURCHASED & INSTALLED BY DH PACE IF REPLACEMENT IS REQUIRED.
24. PAINT ALL APPLICABLE SURFACES IN VESTIBULE
25. NOT USED.
26. CAPACITY TEST MOP SINK TO ENSURE BASIN & FAUCET ARE NOT LEAKING
27. EXIST CONCRETE FLOOR TO BE BURNISHED USING 800 GRIT
28. POLISH CONCRETE; ADDITIONAL GRINDING MAY BE REQUIRED AFTER REMOVAL OF EXIST FLOORING
29. EXTENT OF VINYL PLANK FLOORING FOR NEW CLOTHING AREA. VINYL PLANK FLOORING AS SCHEDULED W/ SINGLE-BEVEL PLANK @ TRANSITION (2 SIDES). SUPPLIED BY TSC, PURCHASED & INSTALLED BY G.C. REFER TO T1.1 FOR DISTRIBUTION INFO.
30. EXTENT OF EXIST. VINYL PLANK FLOORING. USE SINGLE-BEVEL PLANK @ TRANSITION. SUPPLIED BY TSC, PURCHASED & INSTALLED BY G.C. REFER TO T1.1 FOR DISTRIBUTION INFO.
31. Ø6" CONCRETE FILLED PIPE BOLLARD W/ VENDOR #13 COVER; REFER TO 9/A1.1
32. NOT USED.
33. INSTALL HOSE REEL @ 7'-0" AFF.
34. INFILL TO MATCH EXIST PAVEMENT.
35. NOT USED.
36. 8' MANUAL ROLLING CANTILEVERED GATE.
37. NOT USED.
38. BOLLARD MOUNTED PROPANE E-STOP BUTTON @ 4'-6" AFF. ENSURE DISTANCE IS 25' MIN TO 100' MAX FROM PROPANE DISPENSING UNIT

GENERAL NOTES

1. ENSURE AT TIME OF REMODEL ALL POLE LIGHTS & WALL PACKS ARE OPERATIONAL. EXTERIOR LIGHT COVERS ARE FREE OF DAMAGE & NOT MISSING. REPLACE ALL DAMAGED, MISSING, OR STANDARD COVERS W/ EXTERIOR WEATHER PROOF COVERS. ALL LIGHT POLE BASES NOT LOCATED IN LANDSCAPING TO BE PAINTED SAFETY YELLOW.
2. COVER EXIST. BOLLARDS W/ VENDOR #13 STANDARD YELLOW; CUT TO LENGTH. VERIFY LOCATIONS & QUANTITIES W/ PM PRIOR TO INSTALLATION.
3. GLASS THAT IS EXIST TO REMAIN SHALL BE CLEANED. ENSURE ALL SEALS ARE WEATHER TIGHT.
4. INTERIOR & EXTERIOR DOORS THAT ARE EXIST TO REMAIN SHALL HAVE SEALS & SWEEPS REPLACED. CAULK & SEAL GAPS IN FRAME. PAINT ALL HOLLOW METAL DOOR & FRAMES. INSPECT/ADJUST LOCKING HARDWARE & SWING.
5. PAINT ALL WALLS THAT ARE VISIBLE TO CUSTOMER. PATCH, REPAIR, & CLEAN PRIOR TO PAINTING. PAINT ALL COLUMNS. INSTALL VENDOR #13 CORNER GUARDS ON ALL OUTSIDE CORNERS. REPLACE MISSING OR DAMAGED VINYL BASE. REFER TO COLOR SCHEDULE ON A0.1
6. PAINT RED STRIPE 12" WIDE AROUND PERIMETER OF SALES FLOOR, BOTTOM OF STRIPE TO BE @ 10'-3" AFF.
7. EXIST OFFICE CORE TO BE REUSED. ALL WALL PENETRATIONS REPAIRED & PAINTED. RESTROOM UNITS THAT ARE EXIST TO REMAIN SHALL BE THOROUGHLY CLEANED & SANITIZED. REPLACE FRP 4FT UP. REFER TO COLOR SCHEDULE ON A0.1
8. REFER TO WALL TYPES ON A1.1



TSC TRACTOR SUPPLY CO.

COMBO PROJECT

Project No.: 25.0167
Drawn By: AS
Date: 02-07-25 Issue: BID/PERMIT

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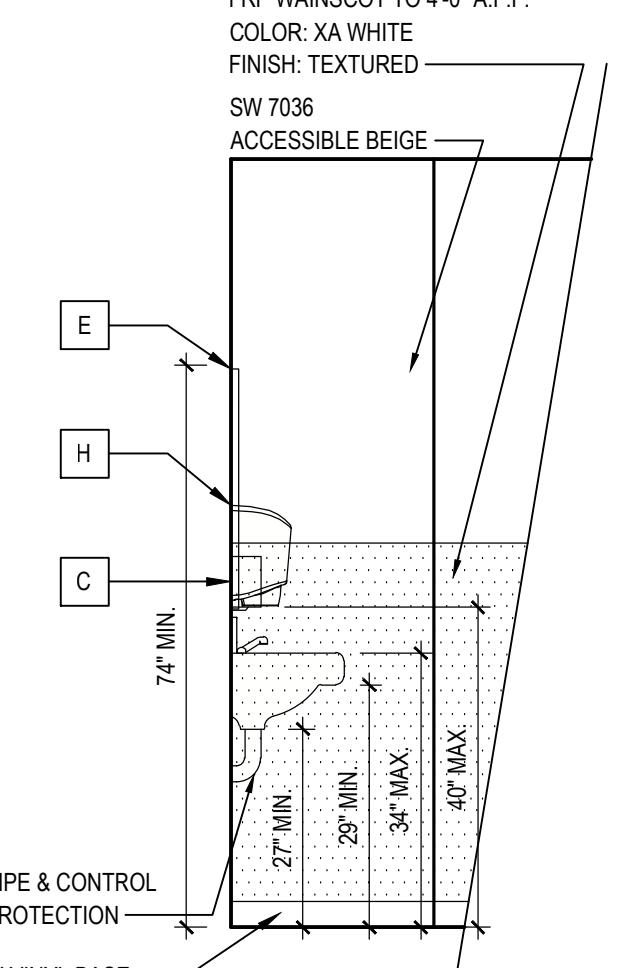
FLOOR PLAN

FLOOR PLAN

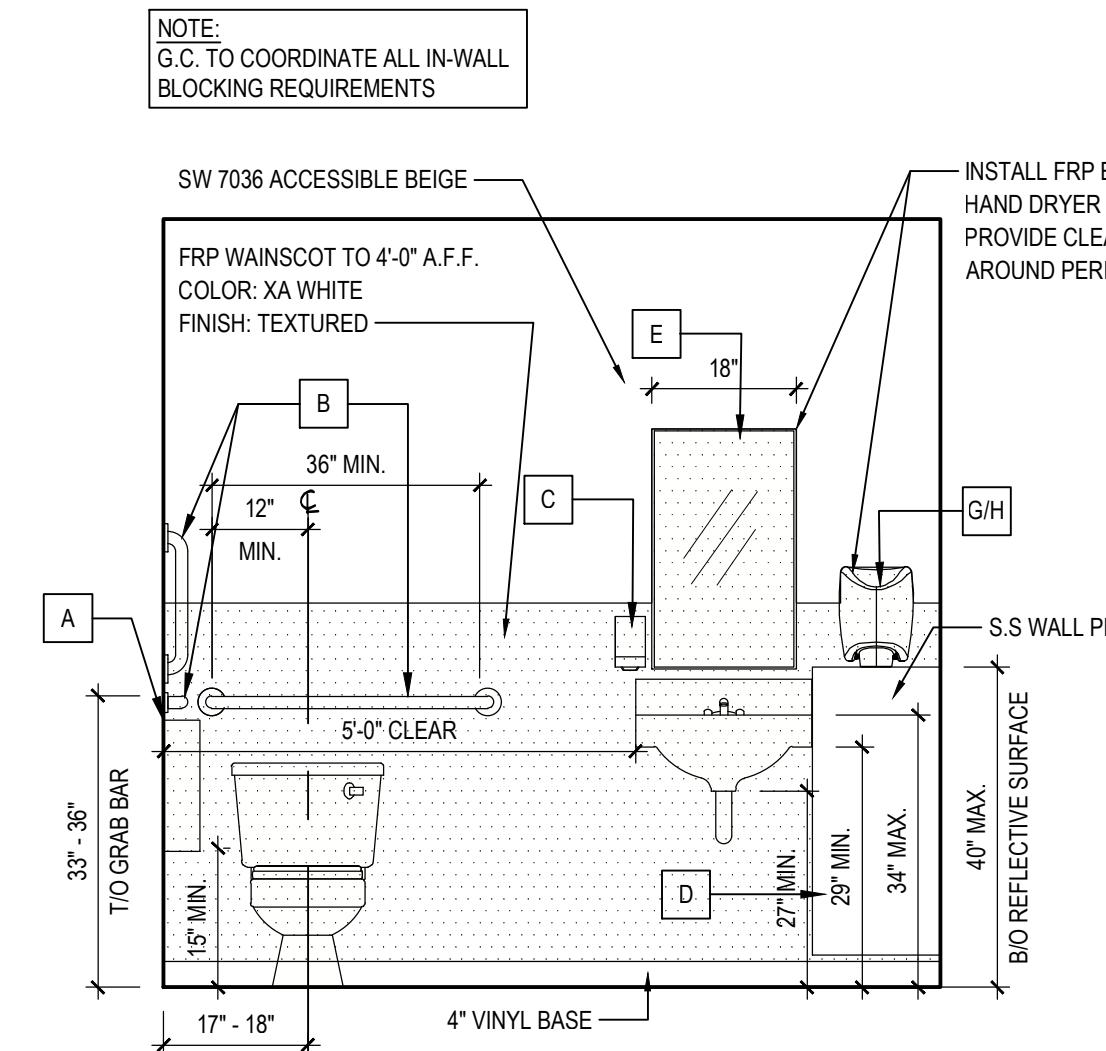
A1.0

ACCESSORY SCHEDULE

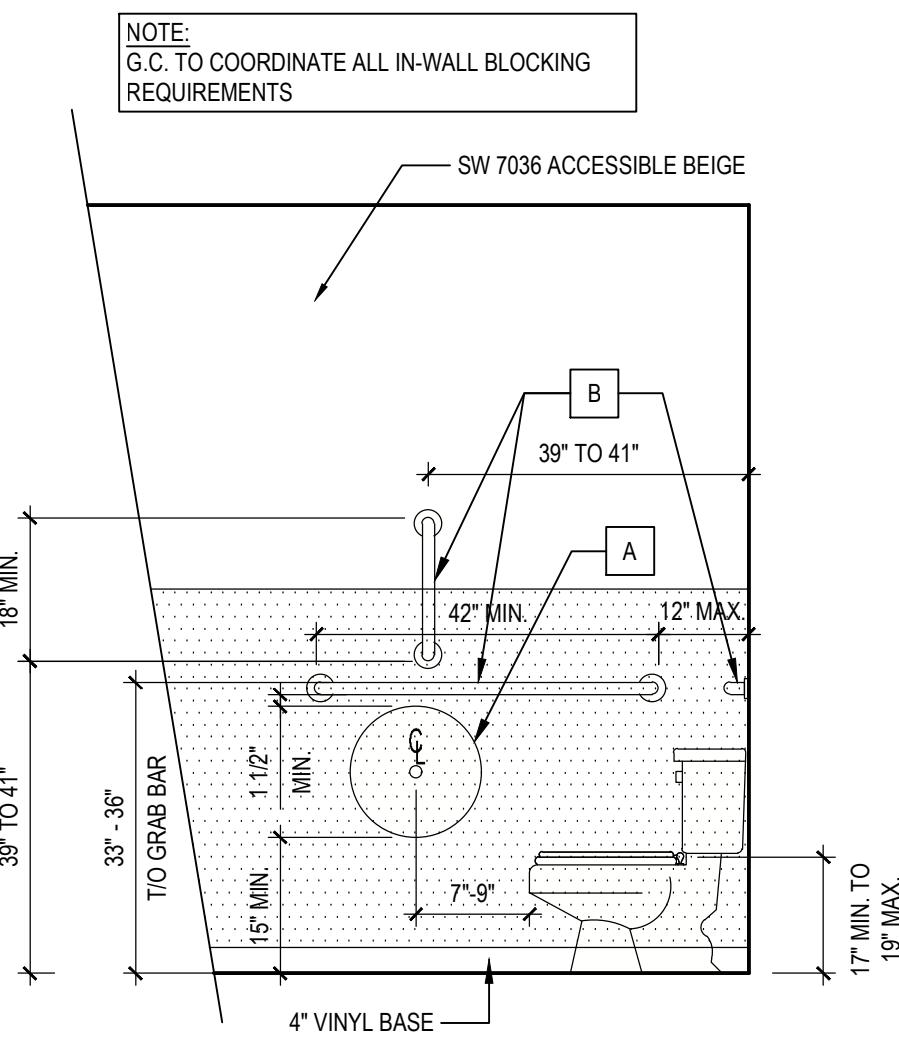
TAG	DESCRIPTION	MANUFACTURER #	MODEL	REMARKS	NOTES
A	TOILET PAPER DISPENSER	F.B.O., I.B.C.			QTY (1) WOMENS QTY (1) MENS
B	ACCESSIBLE GRAB BARS (WATER CLOSETS)	SIDE	BRADLEY	8320-001-42	MOUNT 33"-36" A.F.F. TO TOP, MAX
	ACCESSIBLE GRAB BARS (WATER CLOSETS)	BACK	BRADLEY	8320-001-36	MOUNT 33"-36" A.F.F. TO TOP, MAX
	ACCESSIBLE GRAB BARS (WATER CLOSETS)	VERT.	BRADLEY	8320-001-18	MOUNT 39"-41" A.F.F. TO BOTTOM OF BAR
C	TOUCHLESS SOAP DISPENSER	SCOTT BRAND F.B.O., I.B.C.	32504	MOUNT 40" A.F.F. MAX TO CONTROL	QTY (1) WOMENS QTY (1) MENS QTY (1) BREAKROOM
D	16" X 36" STAINLESS STEEL PANEL	FURN. & INST. BY CONTRACTOR		40" TO TOP OF PANEL	QTY (1) WOMENS QTY (1) MENS
E	MIRROR (1/4" POLISHED PLATE GLASS)	1 PIECE, 18" X 36"		MOUNT 40" A.F.F. TO BOTTOM OF REFLECTIVE SURFACE	QTY (0) WOMENS QTY (0) MENS
F	PAPER TOWEL DISPENSER	F.B.O., I.B.C.		MOUNT 40" A.F.F. MAX TO CONTROL	QTY (1) BREAKROOM
G	VERDEDRI	WORLD DRYER	Q-974A	MOUNT 40" A.F.F. MAX TO CONTROL	QTY (0) WOMENS QTY (0) MENS
H	SMARTDRI PLUS	WORLD DRYER	K-974P2	MOUNT 40" A.F.F. MAX TO CONTROL	QTY (1) WOMENS QTY (1) MENS
I	BABY CHANGING STATION	RUBBERMAID	FG781888LPLAT	MOUNT 34" A.F.F. MAX TO TOP OF RIM	QTY (0) WOMENS QTY (0) MENS
ACCESSORY NOTES					
<p>A. RESTROOM ACCESSORIES TO BE INSTALLED BY G.C.</p> <p>B. F.B.O, I.B.C. (FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.)</p> <p>C. AUTOMATIC CONTROL</p> <p>D. FRP TO 4'-0" A.F.F. ON ALL WALLS EXCEPT CMU UNLESS NOTED OTHERWISE.</p> <p>E. ALL PLUMBING FIXTURES TO BE ANCHORED PER ALL ANCHOR POINTS.</p> <p>F. PROVIDE CEILING BATT INSULATION FOR RESTROOMS.</p> <p>G. NO ITEMS SHALL BE LOCATED FROM FLOOR TO CEILING WITHIN 18" OF THE EDGE OF THE PULL SIDE OF THE BATHROOM DOORS.</p> <p>H. NOTE - EXISTING ACCESSORIES THAT MATCH THE ABOVE SPECIFICATION AND IN GOOD WORKING ORDER ARE NOT TO BE REPLACED.</p> <p>CONFIRM REPLACEMENT w/ T.S.C. P.M.</p>					



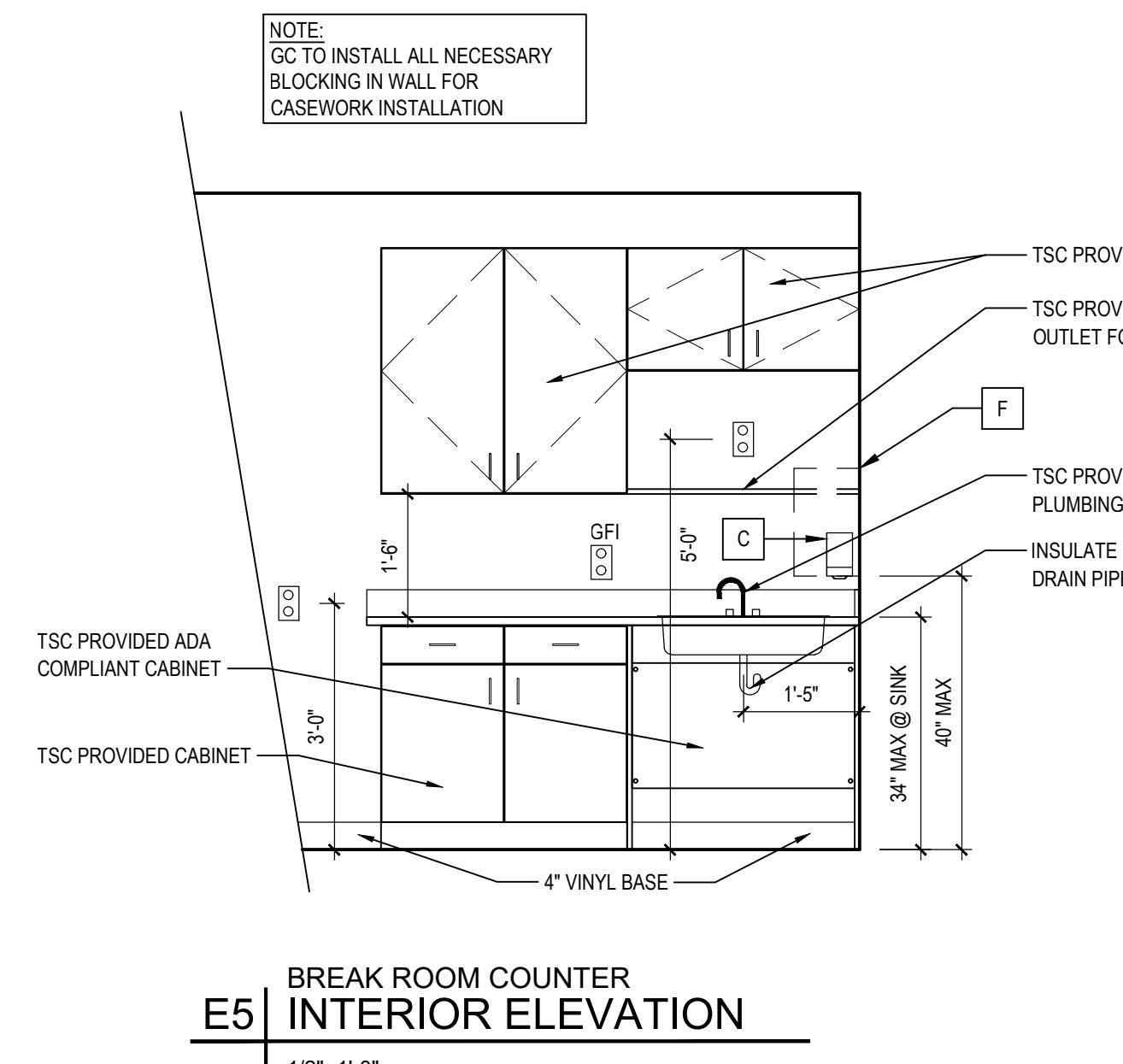
E3 RESTROOM INTERIOR ELEVATION



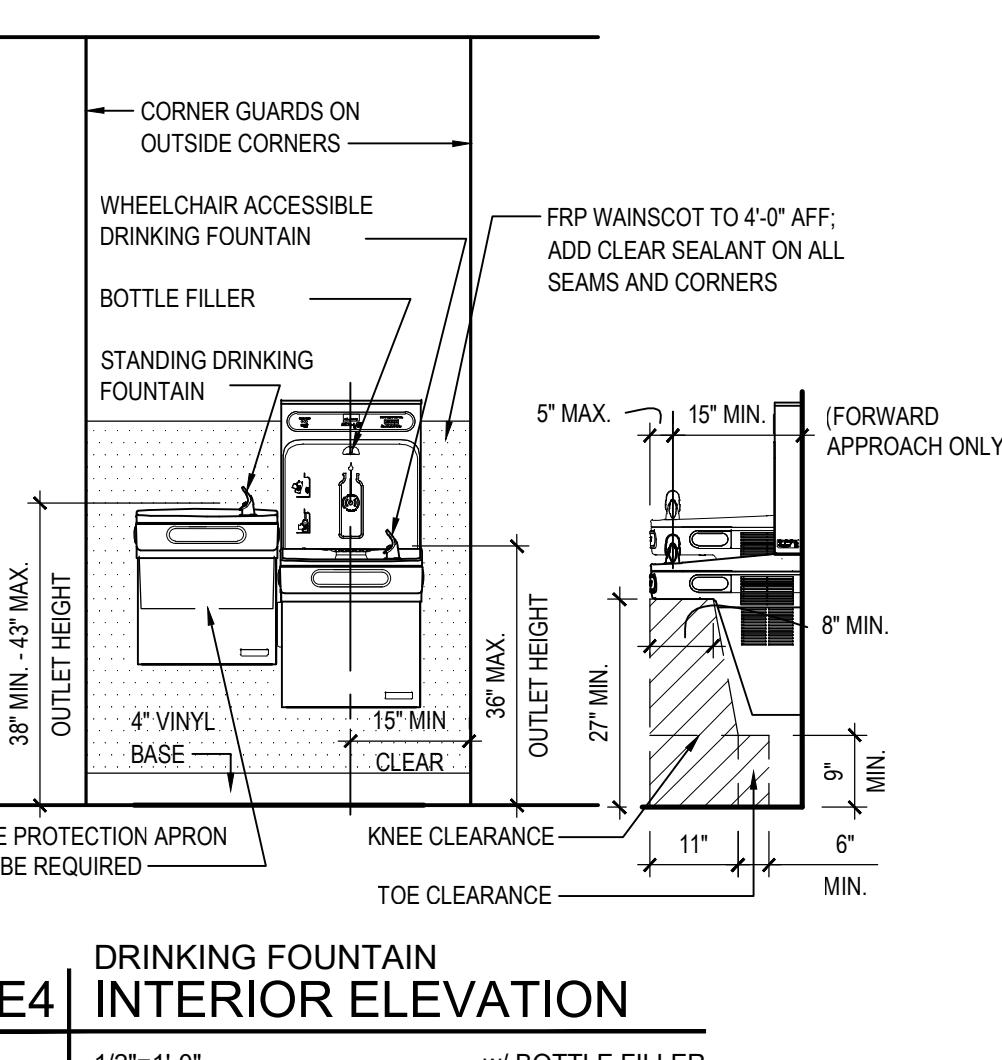
E2 RESTROOM INTERIOR ELEVATION



E1 RESTROOM INTERIOR ELEVATION



E5 | BREAK ROOM COUNTER INTERIOR ELEVATION



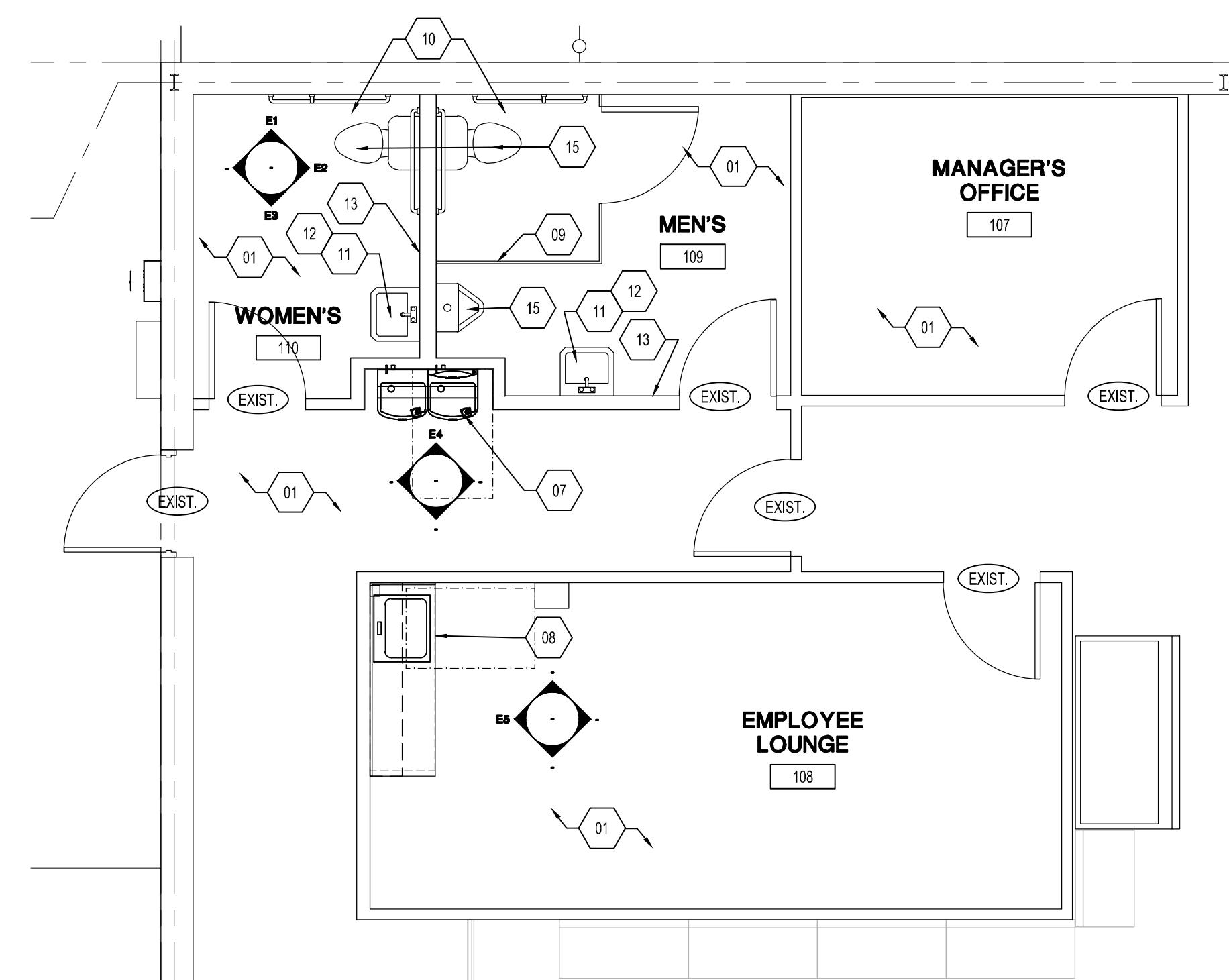
DRINKING FOUNTAIN INTERIOR ELEVATION

CODED NOTES

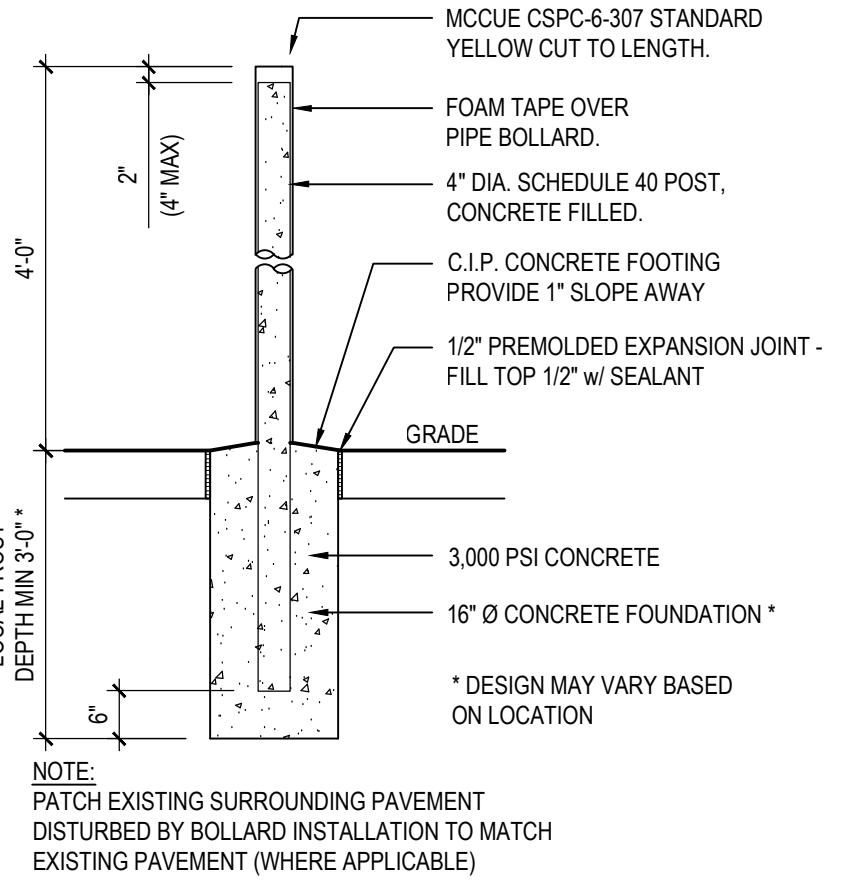
1. BURNISH EXIST CONCRETE FLOOR.
2. NOT USED.
3. NOT USED.
4. NOT USED.
5. NOT USED
6. NOT USED.
7. INSTALL ACCESSIBLE BI-LEVEL FOUNTAIN. INSTALL / REPLACE FRP 4' AFF.
8. INSTALL / REPLACE CABINET, COUNTER, & SINK. UPPER CABINET WILL NEED BRACING ADDED IN-BETWEEN THE STUDS.
9. CLEAN & SANITIZE EXIST STALL PARTITIONS. ENSURE SCREWS ARE TIGHT ON PANELS & WALLS. REPLACE ANY DAMAGED OR MISSING HARDWARE. GRIND, PRIME, & PAINT. MATCH MTL DOOR PAINT SPECS; REFER TO COLOR SCHEDULE ON A0.1
10. EXIST EXHAUST FAN(S) TO BE CLEANED. ENSURE UNITS ARE OPERATIONAL & ACTIVATE W/ MOTION SENSOR.
11. CLEAN & CAULK EXIST SINK(S). REPLACE ADA WRAPS.
12. CLEAN & REUSE EXIST MIRROR(S). REPLACE PLASTIC HANGERS W/ MTL HANGERS.
13. INSTALL NEW HAND DRYER. INSTALL MTL PLATE OVER FRP; REFER TO ELEVATIONS.
14. CLEAN & CAULK EXIST TOILET(S); REPLACE SEAT. ENSURE FLUSH HANDLE IS ON ACCESSIBLE SIDE OF TANK.
15. CLEAN & CAULK EXIST URINAL. INSTALL TOUCHLESS APPLICATION.

GENERAL NOTES

- A. REPAIR PENETRATIONS & PAINT ALL WALLS. INSTALL / REPLACE FRP; 4FT AFF. INSTALL CORNER GUARDS ON ALL OUTSIDE GYPSUM BOARD CORNERS. REPLACE MISSING OR DAMAGED VINYL BASE. REFER TO COLOR SCHEDULE ON A0.1
- B. PLUMBING FIXTURES THAT ARE EXISTING TO REMAIN SHALL BE THOROUGHLY CLEANED & SANITIZED.
- C. REPLACE EXIST DOOR SEALS & SWEEPS. CAULK & SEAL GAPS IN FRAME. PAINT ALL HOLLOW METAL DOOR & FRAMES. INSPECT/ADJUST LOCKING HARDWARE & SWING. POLISH HANDLES, HINGES, & KICK PLATES. INSTALL DOOR SILENCERS & DOOR STOPS AS NEEDED. REFER TO COLOR SCHEDULE ON A0.1

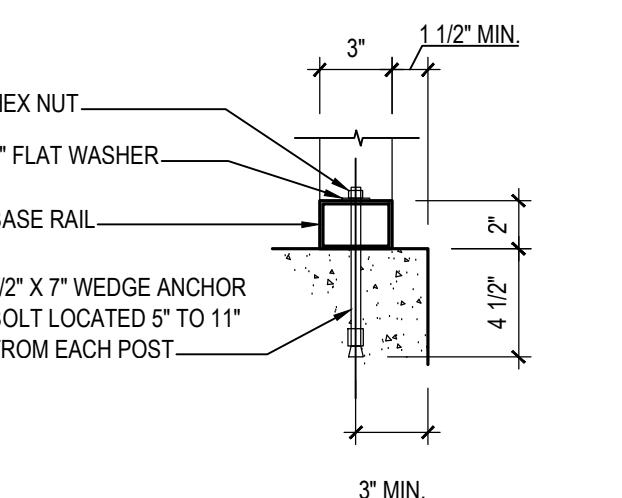


OFFICE CORE ENLARGED PLAN



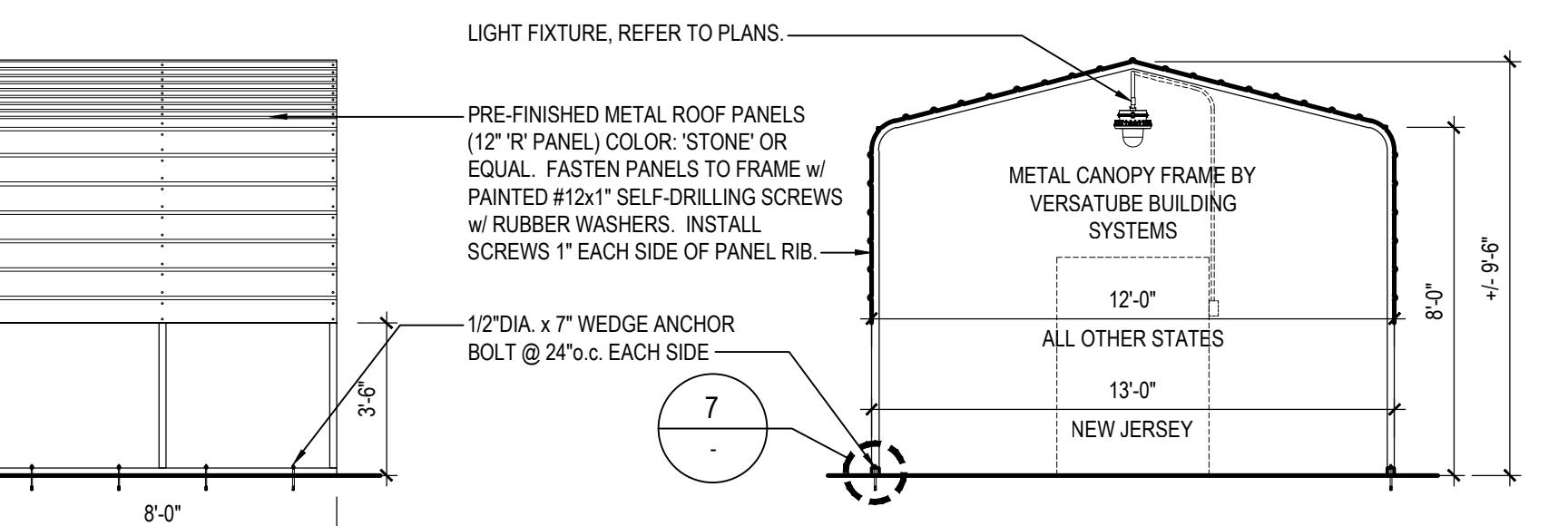
9 | NOT USED
BOLLARD DETAIL
1/2"=1'-0"

8 | BOLLARD DETAIL
1/2"=1'-0"



7 | CONNECTION @ CONCRETE
CANOPY DETAIL
1-1/2"=1'-0"

6 | NOT USED
PROPANE PLAN DETAIL
3/32" = 1'-0"



5 | SIDE CANOPY ELEVATION
1/4" = 1'-0"

4 | FRONT CANOPY ELEVATION
1/4" = 1'-0"

GENERAL GUIDELINES FOR PROPANE LOCATION AND INSTALLATION:

- PROPANE TANK LOCATION TO COMPLY WITH NFPA STANDARDS AND GUIDELINES. CONTRACTOR TO VERIFY COMPLIANCE WITH PROPANE COMPANY PRIOR TO INSTALLATION.
- PROPANE TANK TO BE INSTALLED 25' MIN. AWAY FROM ANY STRUCTURE PER NFPA 58.
- PROPANE TANK TO BE INSTALLED 25' MIN. AWAY FROM LIGHT POLES UNLESS EXPLOSION PROOF BOX INSTALLED PER NFPA 58.
- PROPANE TANK TO BE INSTALLED 25' MIN. AWAY FROM UTILITIES (I.E. STORM WATER, ELECTRICAL TRANSFORMERS, METERS) PER NFPA 58.
- PROPANE TANK TO BE INSTALLED 10' MIN. AWAY FROM PROPERTY LINES PER NFPA 58.
- PROPANE TANK TO HAVE 15' CLEARANCE FROM RUNNING VEHICLES TO POINT OF TRANSFER PER NFPA 58.
- IN TEXAS, IN ADDITION TO BOLLARD PROTECTION REQUIREMENTS (3' MAX SPACING), GUARDRAIL TO BE INSTALLED WITH 2 POINTS OF EGRESS NO GREATER THAN 36".
- IN FLORIDA, IN ADDITION TO BOLLARD PROTECTION (3' MAX SPACING), A 10' HALO IN ALL DIRECTIONS SHALL BE PROVIDED FROM THE POINT OF TRANSFER.
- FOR CONDUIT ONLY INSTALLATION (PROPANE TANK INSTALLED AT A LATER DATE) PROVIDE BOLLARD COVER (GLOBAL INDUSTRIAL MODEL WG652890M) AND (4) FOUR BOLLARD COVER ANCHOR BOLTS (GLOBAL INDUSTRIAL WG652901) OVER CONDUIT STUB-UP. INSTALL EXPLOSION PROOF JUNCTION BOX VERTICALLY TO INSURE BOLLARD COVER FIT. SEE ELECTRICAL.

PROPANE RESPONSIBILITY NOTES:

IF PROPANE TANK IS DELIVERED PRIOR TO FIXTURE DATE:

- GENERAL CONTRACTOR IS RESPONSIBLE FOR INFRASTRUCTURE RELATED TO PROPANE TANK INSTALLATION.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL PERMITTING AND FINAL CONNECTION TO PUMP DISPENSING CONTROL PANEL.
- AMERIGAS OR OTHER SPECIFIED PROPANE PROVIDER IS RESPONSIBLE FOR GAS PERMITTING OF THE TANK.
- AMERIGAS OR OTHER SPECIFIED PROPANE PROVIDER IS RESPONSIBLE FOR INSTALLATION AND FINAL GAS CONNECTION OF THE TANK.
- SEE ELECTRICAL FOR ADDITIONAL NOTES AND DETAILS.

IF PROPANE TANK IS DELIVERED AFTER FIXTURE DATE:

- GENERAL CONTRACTOR IS RESPONSIBLE FOR INFRASTRUCTURE RELATED TO PROPANE TANK INSTALLATION.
- AMERIGAS OR OTHER SPECIFIED PROPANE PROVIDER IS RESPONSIBLE FOR ELECTRICAL PERMITTING AND FINAL CONNECTION TO PUMP DISPENSING CONTROL PANEL.
- AMERIGAS OR OTHER SPECIFIED PROPANE PROVIDER IS RESPONSIBLE FOR GAS PERMITTING OF THE TANK.
- AMERIGAS OR OTHER SPECIFIED PROPANE PROVIDER IS RESPONSIBLE FOR INSTALLATION AND FINAL GAS CONNECTION OF THE TANK.
- SEE ELECTRICAL FOR ADDITIONAL NOTES AND DETAILS.

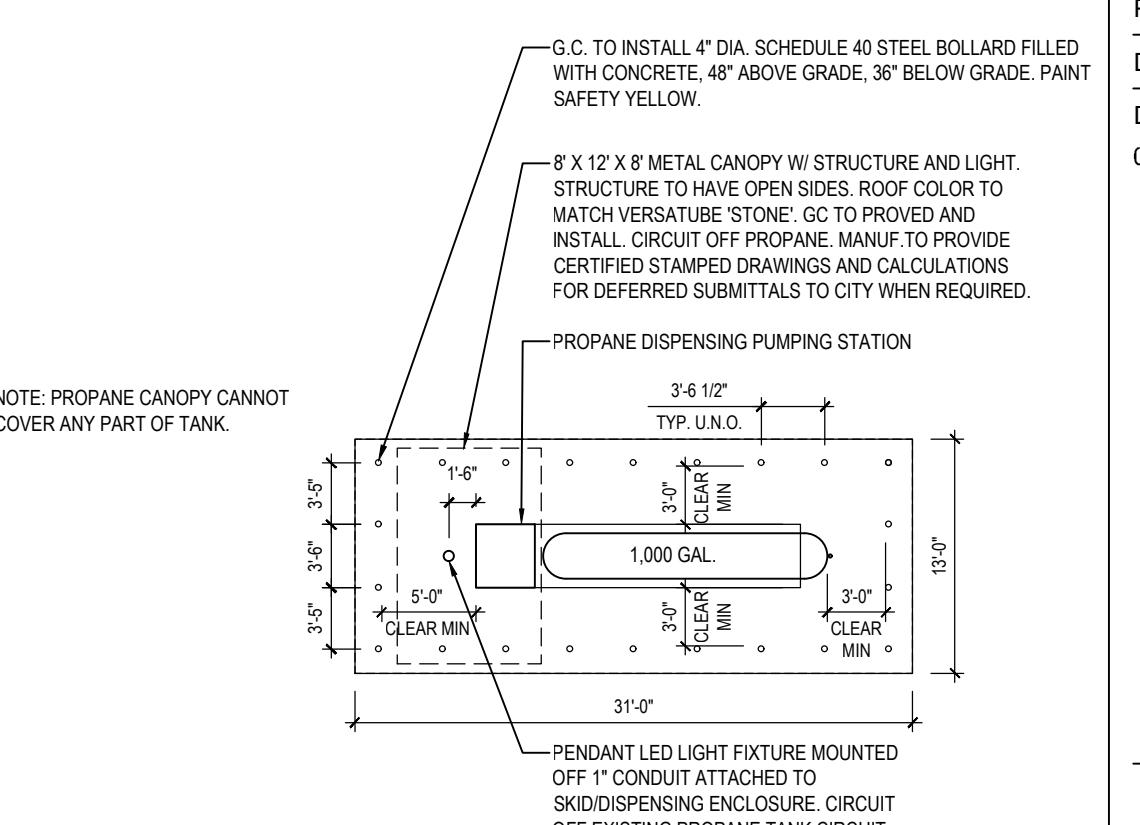
** NOTICE **

CLASS 1, DIV 2 CONDUIT SEAL AT 18" AFG TO BOTTOM

*REFER TO PLAN FOR LOCATION OF PROPOSED TANK INSTALL.

**MOUNT ON EXISTING SURFACE. NEW PAD ONLY WHERE REQUIRED BY AHJ. PAD TO SIT LEVEL. SHIM SKID AS NECESSARY TO LEVEL TANK. EXTENTS TO BE 5' OUTSIDE BOLLARDS.

*GENERAL CONTRACTOR TO CONTACT PLAN EXPRESS FOR BULK PROPANE POWER-OPERATED DISPENSING DEVICE FOR LPG-GAS CUT-SHEET PDF DOCUMENT.

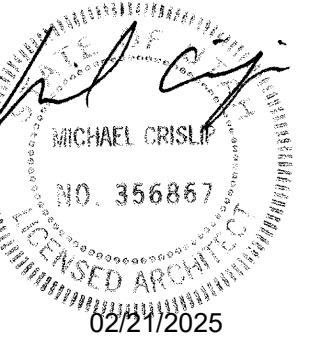


1 | PROPANE PLAN DETAIL
3/32" = 1'-0"

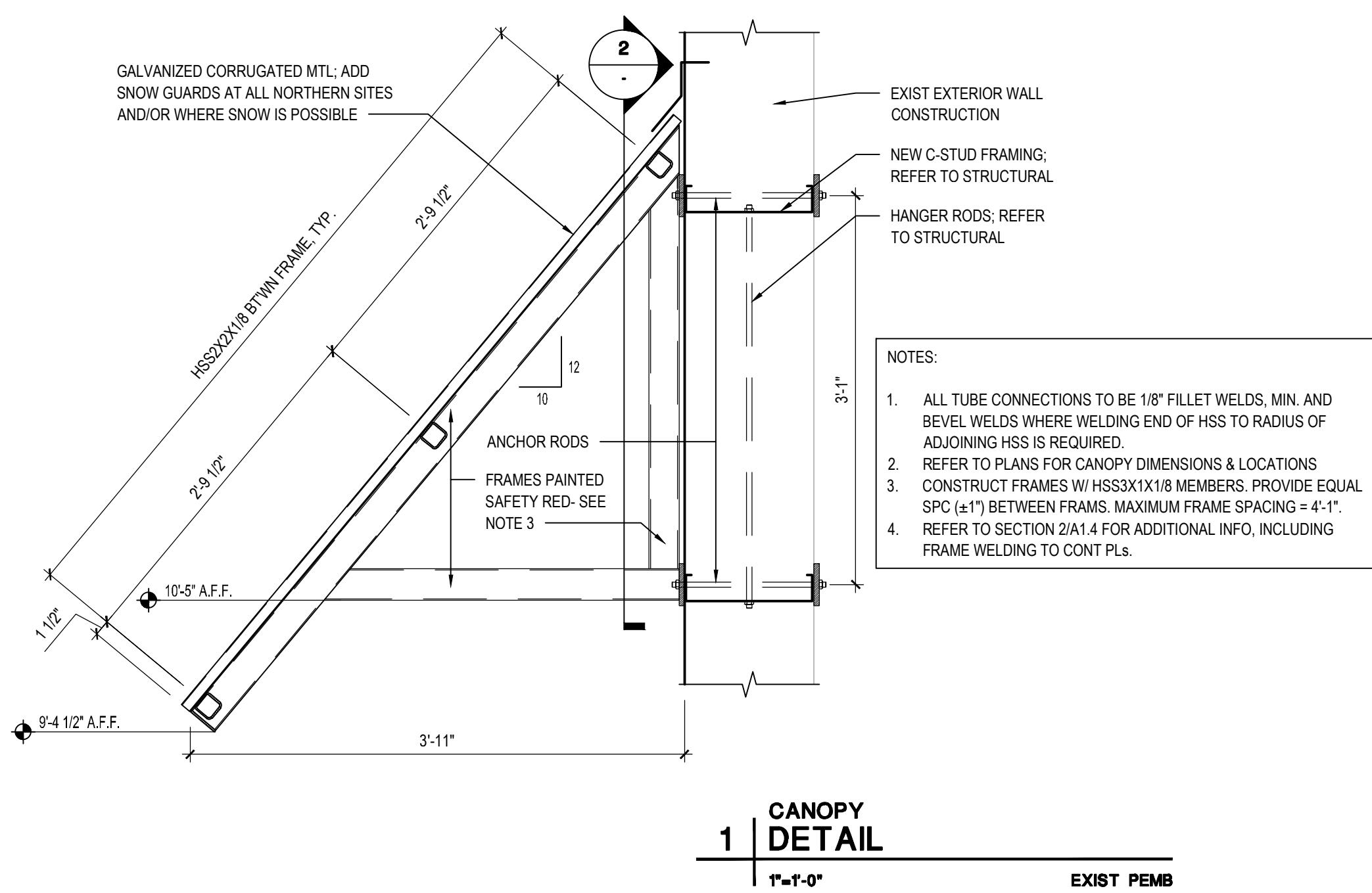
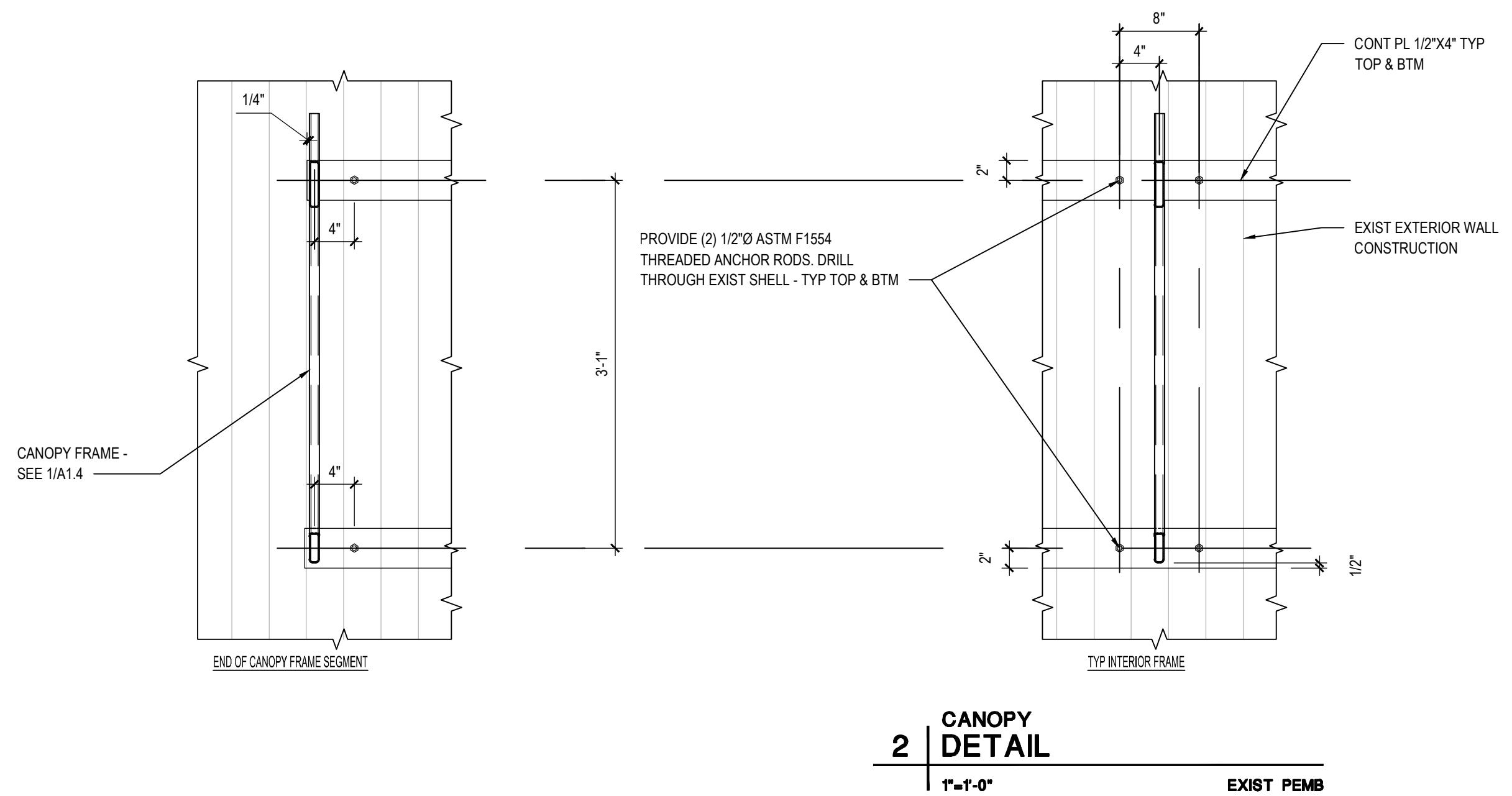
2 | PROPANE PLAN DETAIL
3/32" = 1'-0"

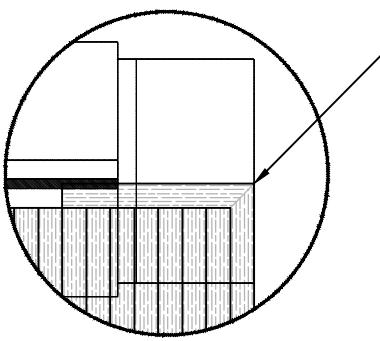
3 | PROPANE PLAN DETAIL
3/32" = 1'-0"

Project No.: 25.0167
Drawn By: AS
Date: 02-07-25 Issue: BID / PERMIT



ARCHITECTURAL DETAILS





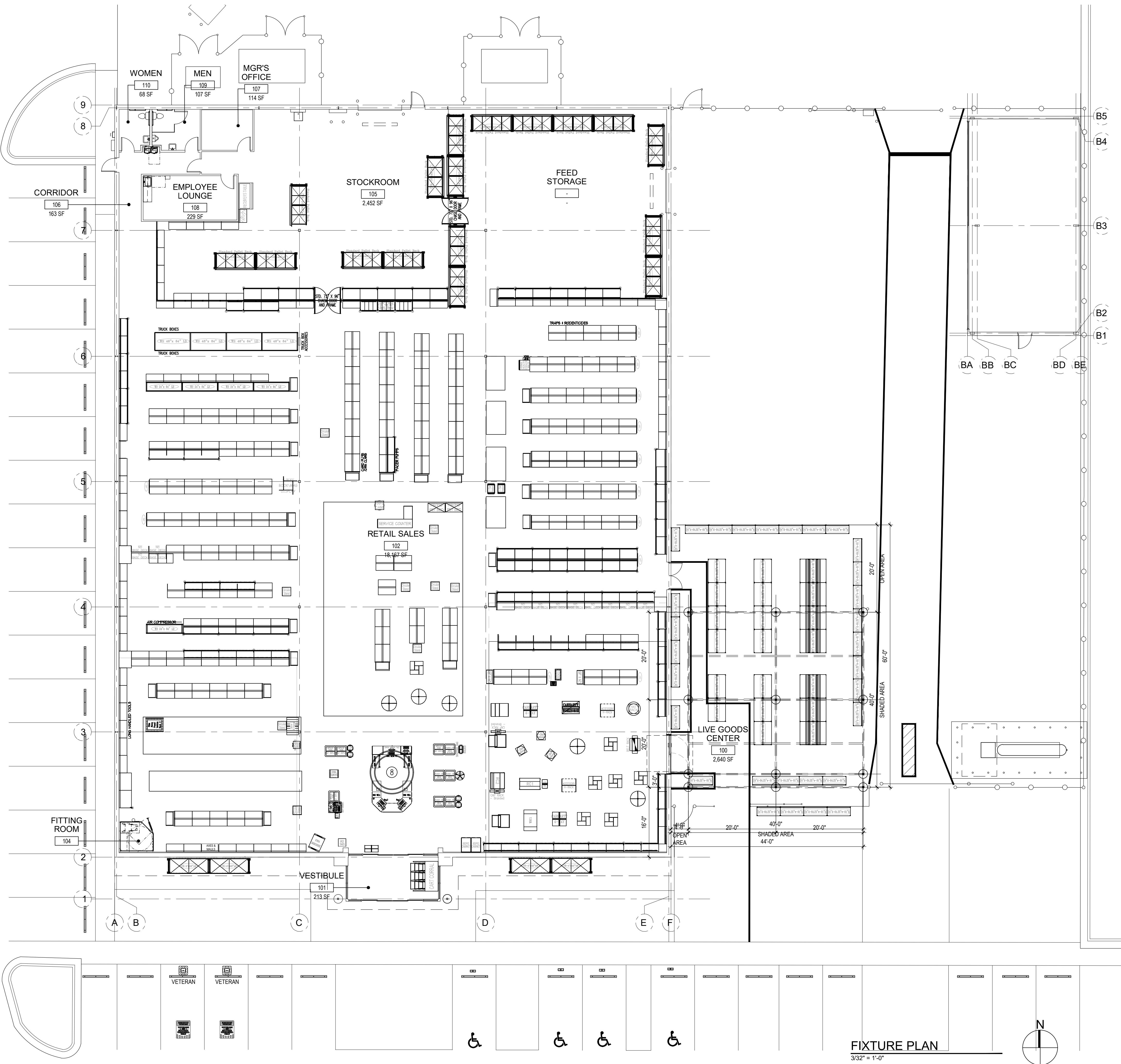
— MITER VINYL PLANK AT OUTSIDE CORNER OF
EXTENT OF CLOTHING AREA/ RETURN VINYL
PLANK TO COVER ALL EXPOSED SHORT
EDGED UNTIL FIXTURES COVER FLOORING.
COORDINATE W/ FINAL FIXTURE PLAN.

1 | VINYL PLANK RETURN

1/8"=1'

GENERAL NOTES

- A. INSTALL ENERGY MANAGEMENT SYSTEM THERMOSTAT & CALL 866-356-0656 TO ENSURE OPERATIONAL
- B. ENSURE ALL PALLET RACKING HAS ONE BOLT PER LEG.
- C. REQUEST FINAL DIMENSIONED LAYOUT FROM TSC PM
- D. FINAL FIXTURE PLAN TO BE DEVELOPED BY TSC. SERVICE DESK, FIXTURES & COUNTERS TO THE SUPPLIED BY TSC & BOLTED DOWN BY CONTRACTOR



TSC TRACTOR SUPPLY CO.

COMBO PROJECT

FUSION / SIDELOT

COMBO
FUSION / SIDELOT
STORE #1950
1821 EAST HWY 40
BALLARD, UT

Object No.: 25.0167
Drawn By: AS
Date Issue
07.25 BID/ PERMIT

A2.0

Fixture Plan

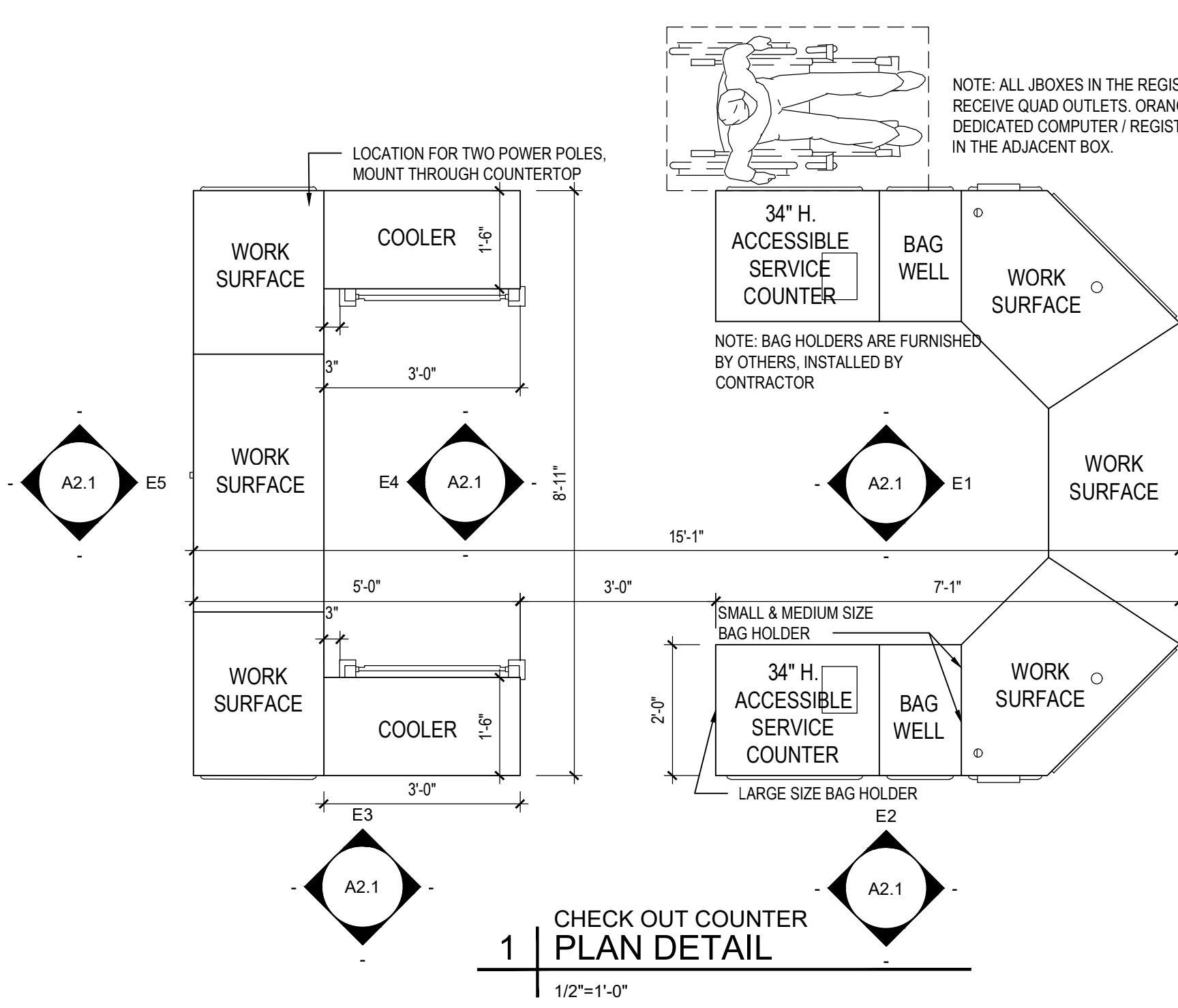
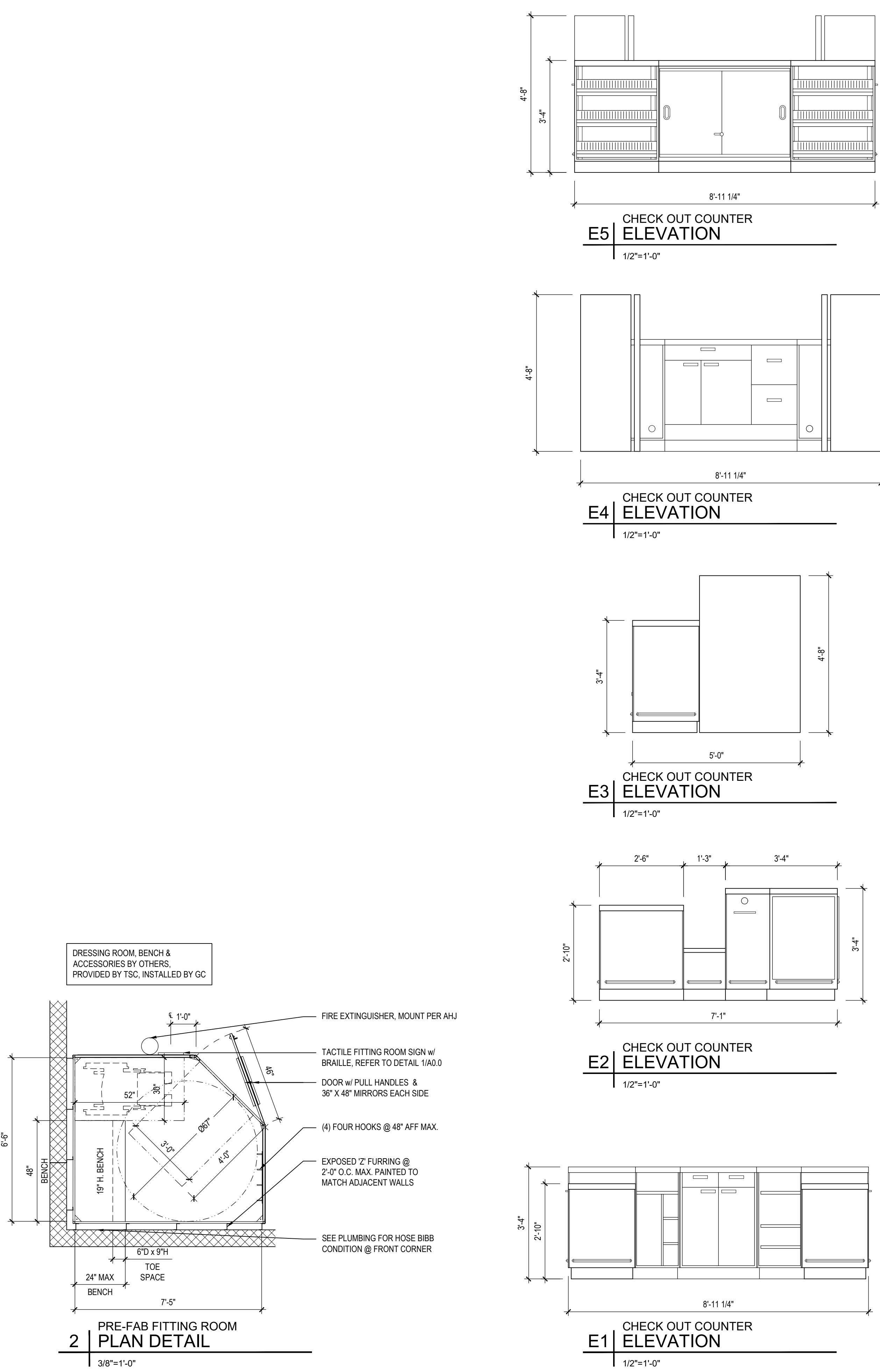
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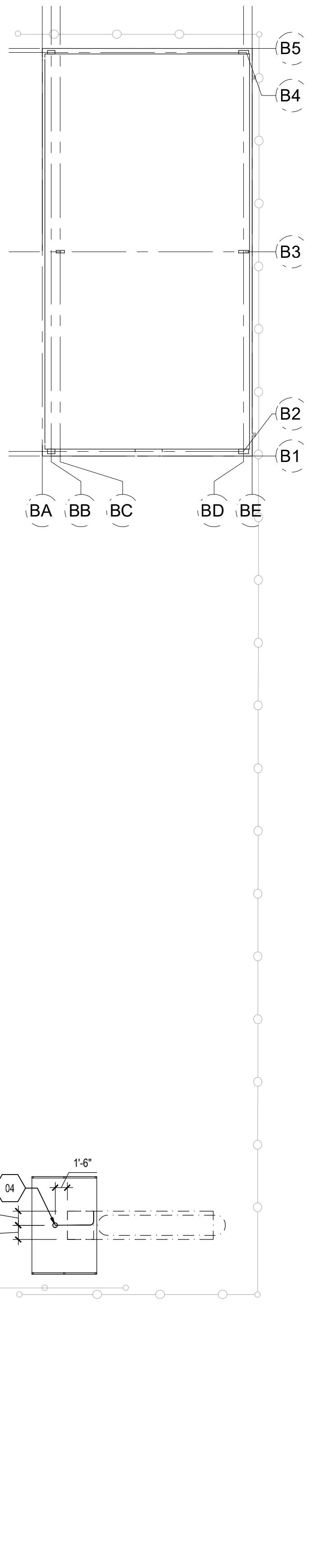
MICHAEL CRISLIP

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216.223.3200

ARCHITECT





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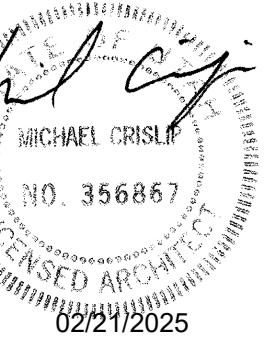
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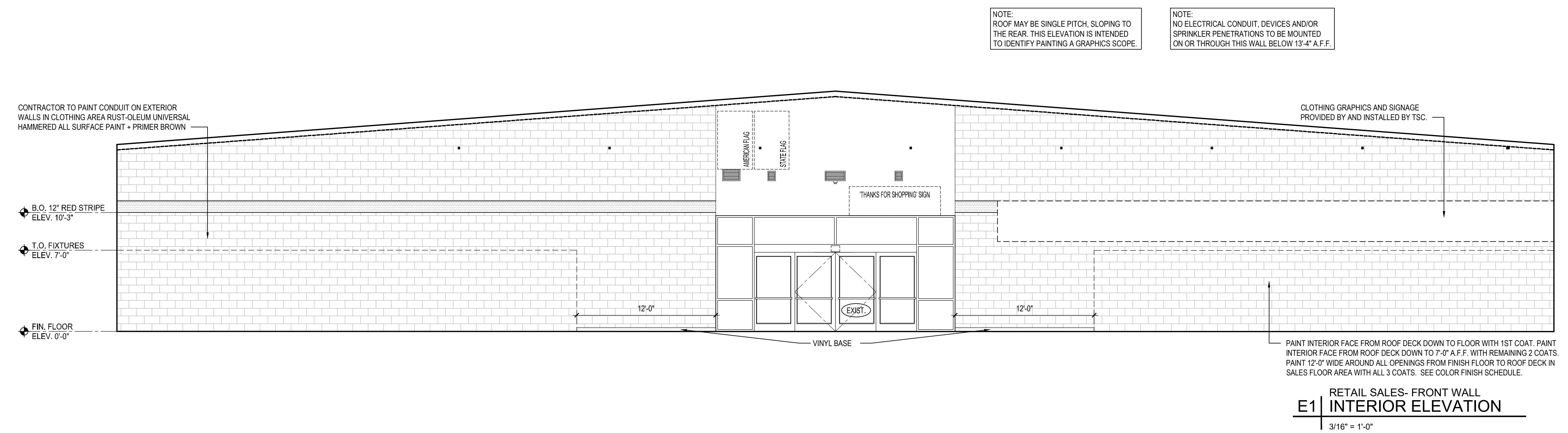
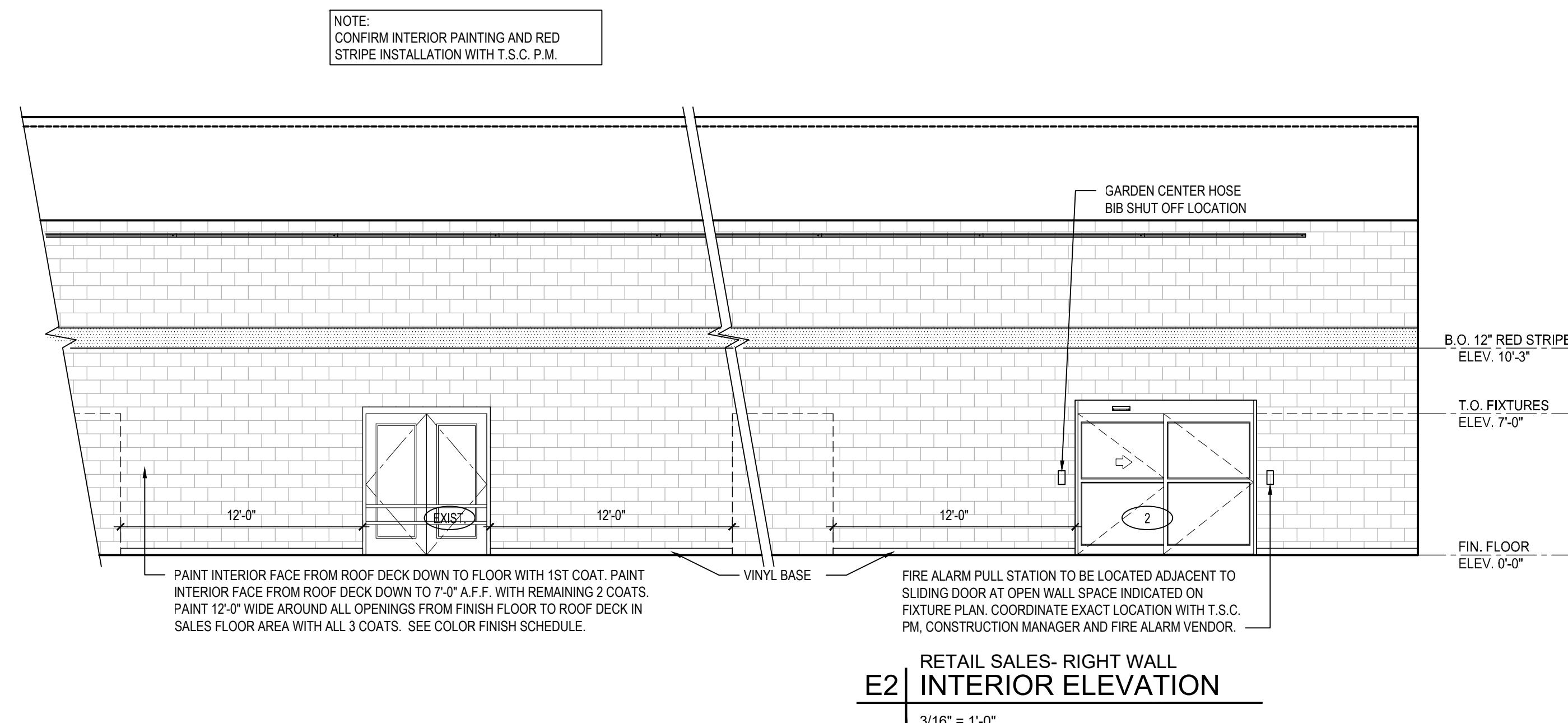
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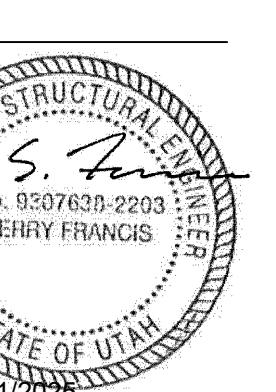
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STRUCTURAL GENERAL NOTES

Governing Code: Utah Building Code 2021, 2021 IBC with amendments

Building Occupancy (IBC Table 1604.5) Category II

SNOW LOADS	WIND LOADS	SEISMIC LOADS	LIVE LOADS
Drift per ASCE 7	Vult	104mph	Roof 20 psf
Is = 1.0	Vsd	81mph	Public Areas 100 psf
Ct = 1.0	Exposure C	S1 = 0.087	
Ce = 1.0	GCpi ± 0.18	Site Class D	
Pg = 35 psf	Ult. Component Pressure(psf)	Sds = 0.315	
Pf = 25 psf	Roof 1' +16.0 -41.6	Sd1 = 0.139	
Rain on Snow 5 psf	Roof 2' +16.0 -23.9	Design Category B	
	Roof 2' +16.0 -54.9	Basic Seismic-Force-Resisting System:	
	Roof 3' +16.0 -74.8	Assumed Pre Engineered Structure	
	Wall 4' +27.7 -25.9	Design Base Shear: N/A Existing	
	Wall 5' +27.7 -31.9	Cs = N/A R = 1.5	
		Pressures shown are for 10' of effective wind area.	

GENERAL:
1. The structure is designed to be self-supporting and stable after the building is completed and materials have attained their design strengths. It is the sole responsibility of the contractor to determine erection procedure and sequence to insure the safety of construction personnel, property, and component parts during all phases of construction. This responsibility includes the use of whatever shoring, temporary bracing, etc. that may be necessary.
a. Contractor shall engage a Utah licensed engineer to provide shoring design calculations and installation drawings according to ASCE 37-14.
Submit calculations and installation drawings to structural engineer of record for review prior to shoring installation.
2. The contractor shall perform all construction for the project in a manner and sequence that are based on accepted industry standards that recognize the interaction of the components that comprise the structure, without causing distress, unanticipated movements or irregular load paths as a result of the construction means and methods employed.
3. Details labeled "typical details" on drawings apply to situations occurring on the project that are the same or similar to those specifically detailed. Such details apply whether or not details are referenced at each location. Notify engineer of conflicts regarding applicability of "typical details".
4. Work these drawings with architectural, mechanical, plumbing and electrical drawings.
5. Do not scale drawings.
6. Contractors shall familiarize themselves with all proprietary products shown on the drawings. Such products shall be installed per the manufacturer's printed instructions unless shown otherwise in the details.
7. Prior to start of construction, contractor shall verify all existing construction, elevations and conditions. Any conditions discovered to be in variance with design documents shall be brought to the attention of the Architect immediately.
8. Contractor is responsible for protecting all existing construction to remain. Any damage caused by the Contractor shall be repaired or replaced at the sole expense of the Contractor and at the cost to the Owner.
9. Existing Structural Members: Size and configuration of existing structural members shown on these drawings are based on images provided to BSC by the Owner. If not explicitly called out, all dimensions, orientations, sizes and materials are to be verified in the field.
10. Construction loads shall not exceed the design live load referenced in these documents. Any loads exceeding the design live load will require additional shoring and is solely the responsibility of the contractor.
11. All structural building code requirements, standards, and specifications referenced are for the year referenced in the governing building code noted.
12. Any discrepancies occurring between the structural and architectural drawings shall be brought to the AOR and EORs attention immediately for coordination.
13. Shop drawings and other submittals:
a. Submittals shall be checked and coordinated with other materials and trades by the general contractor and shall bear the contractor's review stamp with the checker's initials and date prior to being submitted to the architect for approval.
b. General contractor's schedule shall allow for a minimum of 10 work days for engineer's review and return of all submittals unless noted otherwise.
c. Where dimensions or elevations of existing construction could affect the new construction, it is the contractor's responsibility to make field measurements for incorporation in the shop drawings.

CAST-IN-PLACE CONCRETE:
1. All concrete work is to be in accordance with ACI 301, Specifications for Concrete Construction, and ACI 302, 305 and 306 for the referenced year in the building code listed, unless noted otherwise.
2. All detailing, fabrication and placing of reinforcing bars shall conform to ACI 318, "Building Code Requirements for Structural Concrete", ACI 117, and the ACI detailing manual, unless noted otherwise.
3. **Reinforcing Steel:**
a. Wet setting of reinforcement is not permitted.
b. Deformed (reinforcing) bars shall conform to ASTM A615, Grade 60. No tank welding of bars is permitted.
c. Deformed bars anchors (DBA) shall conform to ASTM A1064, 70ksi yield strength.
d. Welded wire fabric shall conform to ASTM A1064. Use mats only.
e. Welded wire fabric in slab shall be supported by "Mesh-Ups" as manufactured by Lotel, Inc. or approved equal. Use one 2 inch mesh up per 3 square feet.
f. Bars for welding to structural steel shall conform to ASTM A706.
g. Epoxy - coated reinforcing bars shall conform to ASTM A934 for use in frost slabs. Multiply lap length shown in Class B Lap Length Schedule below by 1.5 for epoxy coated bars
h. Reinforcement lap length shall be the following unless otherwise noted.

Class B Lap Length Schedule

Concrete Strength	#6 and Smaller Bars	#7 and Larger Bars
3000 psi	58 Bar Diameters	72 Bar Diameters
4000 psi	50 Bar Diameters	62 Bar Diameters

i. Horizontal top bar splice lengths located in slab, beams, and grade beams deeper than 12" shall multiply lap length by 1.3.
j. Mechanical splice may be used in lieu of bar lap lengths provided the mechanical coupler develops 125 percent of the bar yield strength. No other type of mechanical splice will be accepted.
k. When lapping two different bar sizes, use the lap dimension of the smaller bar.
l. Provide all accessories necessary to support reinforcement per CRSI recommendations.

Concrete Clear Cover Schedule

Concrete Exposure	Member	Reinforcement	Specified Cover
Cast against and permanently in contact with ground	All	All	3"
Exposed to weather or in contact with ground	All	#5 bars, #3 or D31 wire and smaller	1 1/2"
Not exposed to weather or in contact with ground	Slabs, joists, and walls	#11 bars and smaller	3/4"
		#14 & #18 bars	1 1/2"

4.

Concrete Type Schedule

Application of Concrete	Minimum cementitious content (lb/cu. yd)	Maximum water/cement ratio (by weight)	Specified 28-day compressive strength (psi)	Specified slump range for placement with W.R. (inches)	Specified air content (% by volume)	Maximum size aggregate (inches)	Specified Cover
Interior Slabs	564	0.48	4000	3-5	0-3 Entrapped	1	
Exterior Slabs	564	0.48	4000	5-6	6 ± 1.5	1	

Notes:
a. All cement shall be Type I or Type III Portland Cement per ASTM C150. Types IA and IP are not acceptable. Use one brand of cement throughout the project.
b. Measure, batch, mix and deliver concrete according to ASTM C94/C94M and provide batch ticket information. All water must be added at the batch plant, the additional of water to the mix at the project site is not permitted.
5. Admixtures:
a. Use high range water reducer (HRW) for all slabs on grade and slabs on metal form.
b. Use an approved air entraining agent for all concrete exposed to weather or vehicular traffic. The use of calcium chloride or admixtures containing chlorides is prohibited.
c. Use an approved water reducing agent or high range water reducer for all concrete except footings.
d. Fly ash: A maximum of 15% by weight of the total cementitious material may consist of Type F flyash conforming to ASTM C618. This amount shall be used in calculating the water-cement ratio. Contractor's schedule shall account for longer curing times required.
g. Slag cement: A maximum 15% by weight of total cementitious material may consist of slag cement conforming to ASTM C389. This amount shall be used in calculating the water-cement ratio. Contractor's schedule shall account for the use of slag cement.
6. Cure all slabs using a moisture retarding cover or wet cure procedures.
7. Concrete mixes shall be proportioned in accordance with ACI 301.
8. Plastic contractor joint former shall be SureJoint by SureVoid Products. They shall be used in slabs receiving floor coverings.
9. Submittals:
a. Submit ASTM C39 compressive strength test results for a minimum of four (4) samples of each proposed mix indicating 7 and 28 day compressive strength (psi).
b. Submit data for proprietary material and items including admixtures, curing compound, inserts etc.
c. Submit shop drawing of reinforcement, shear bar schedules and diagrams together with placement drawings. Comply with ACI 318.
d. Submit proposed concrete mix design including data on aggregates and cement. Submittals that omit intended location of proposed concrete mix will be rejected without review. Submittals shall include field strength test record data for specified mixes per ACI 318, Chapter 5 and ACI 301, Section 4.2.3.4.

Slab Schedule

Location	Thickness & Reinforcing	Base
Interior	4" concrete slab on grade w/ 6x-W2.1xW2.1 WWF	10mil. vapor barrier on 4" compacted gravel
Propane Pad	6" concrete slab on grade w/ #4 @12" o.c. E.W.	6" compacted layer of #8 crushed stone

STRUCTURAL STEEL:

1. Detailing, fabrication and erection shall be in accordance with the latest specifications of the American Institute of Steel Construction (AISC).
2. All structural steel shall be finished with white or light grey primer u.n.o.
3. Lintel beams built into exterior masonry walls and other items noted in the structural or architectural drawings as permanently exposed to weather shall be hot-dip galvanized per ASTM A123.
4. Oversized lintels to be painted with zinc rich primer and high build epoxy finish.
5. Steel grade and strength shall be per the table below.

Structural Steel Schedule

Steel Shape	Steel Grade	Steel Strength (Fy)
Plates and Angles	ASTM A36 L.n.o.	36ksi
HSS	ASTM A500 Grade C	50ksi

6. Bolts shall be per ASTM F3125, Gr. A325, 3/4"Ø unless noted otherwise.

- a. Slip critical bolts shall be used in connection, column splices and where specified within the construction documents. Slip critical bolts shall meet a class A faying surface and shall be tightened per AISC specifications.
- b. All other bolts not designated as slip critical shall be considered bearing bolts. Do not over tighten bearing bolts, tighten to a snug condition per AISC specifications.
- c. Twist-off type tension control bolts are not permitted.
7. Threaded rods shall be per ASTM A307, Grade A unless noted otherwise.
8. Headed anchor bolts into concrete or masonry shall be per ASTM A36 or ASTM F1554, Grade 36, unless noted otherwise.
9. All welding to be performed in accordance with latest AWS specifications. Electrodes to E70XX coated type, low hydrogen classification.
10. All weld sizes not specifically shown within the details shall be the minimum required size based on thickness of the thinner part as per AISC specification, Tables J2.3 and J2.4.
11. Splicing of structural members is not permitted unless specifically detailed within the drawing with prior approval from the EOR.
12. Cutting, heating, cutting etc. for work of other trades shall be done in the shop drawings and not in the field. Cutting or burning holes in steel shall be done in the field and permitted unless approved by the EOR on a case by case basis.
13. All structural steel beams and columns adjacent to masonry shall have adjustable masonry anchors at 2'0" c.c.
14. Submittals: Shop and erection drawings shall be submitted for approval prior to fabrication according to Section 4 of the ACI Code of Standard Practice. Any alteration made by the detailer on the structural shop drawings to the contract drawings must be clearly identified by cladding or by a direct note on the shop drawings by the detailer prior to submitting to the engineer for review.

COLD FORMED METAL FRAMING:

1. The design, installation and construction of cold-formed carbon or low-alloy steel, structural and non-structural, shall be in accordance with "The Standard for Cold-formed Steel Framing - General Provisions from the American Iron and Steel Institute" (AISI) and AISI/NASFC.
2. Cold formed, light gauge metal framing including studs, joists, and tracks shall be per ASTM A653, with a G90 coating.
3. Minimum yield stress (Fy) for 16ga members & heavier = 50 ksi.
4. Minimum yield stress (Fy) for members lighter than 16ga = 33 ksi.

4. Minimum sizes shown on drawings are as identified by The Steel Framing Industry Association (SFIA).

SFIA STUD DESIGNATION	THICKNESS CONVERSION
600 S 16 - 54	33 mil
MEMBER DEPTH 6" = 600 x 0.01"	43 mil
STYLE 1/8" = 1.625" = 162 x 0.01"	54 mil
	68 mil
	97 mil
	118 mil

5. Partitions and curtain walls shall have deflection tracks with a minimum of 1" deflection unless otherwise noted.
6. Unpunched members shall be used for all joists, headers, and accessories. Punchouts in studs shall be a minimum of 10" from the end of the stud.
7. No splices in studs, joists or headers may be made.
8. Align floor framing over stud walls. Light gauge connections (Unless noted otherwise):
 - a. To light gauge: #10-16 TEK screw x 5/8" long.
 - b. To structural steel: #12-24 TEK screw x 1 1/4" long. Penetration of screws shall not be less than 3 exposed threads. Or Hilti powder actuated fasteners, X-U with 0.157" dia. shank and 1 3/8" dia. washer. Full penetration in steel, 1 1/2" minimum edge distance and spacing.
 - c. To concrete: Hilti powder actuated fasteners, X-U with 0.157" dia. shank and 1 3/8" dia. washer. 1 1/4" minimum penetration, 3" minimum edge distance and 4" minimum spacing.
9. Secure studs to runner tracks by either welding or screw fastening at both inside and outside flanges unless noted otherwise. Seat studs completely in track.
10. Proprietary accessories called for in the typical details are manufactured by The Steel Network (TSN); Substitutes of equal or greater value may be made with prior approval of engineer.
11. Horizontal stud bridging shall be installed with a maximum vertical spacing of no more than 4'-0" o.c. unless noted otherwise.
12. Welding shall be performed by qualified welders and comply with AWS D1.3 "Structural Welding Code - Sheet Steel".
13. All welds to be touched up with zinc-rich paint.
14. Install temporary bracing and supports to ensure framing and support beams until entire integrated supporting structure has been completed and all required connections are in place. GSF or plywood sheathing shall be attached to cold-formed steel by #10 TEK screws at 6' o.c. unless noted otherwise. The screws shall be sufficient enough in length to penetrate the cold-formed steel member by three exposed threads minimum. All screws shall be hot-dip galvanized per ASTM A153 when sheathing is pressure treated or fire retardant treated. Any sheathing shall be APA rated.

SPECIAL INSPECTIONS:

1. The owner shall obtain, in addition to the regular inspections conducted by the department of building safety, special inspection and testing services, in accordance with the applicable building code and AHJ and provided by an approved independent testing laboratory per ASTM E329. Reports shall be sent directly to the Owner, Architect, Structural Engineer and Contractor. Concrete test reports shall also be sent to ready mix supplier. These services shall include the following:

Concrete:

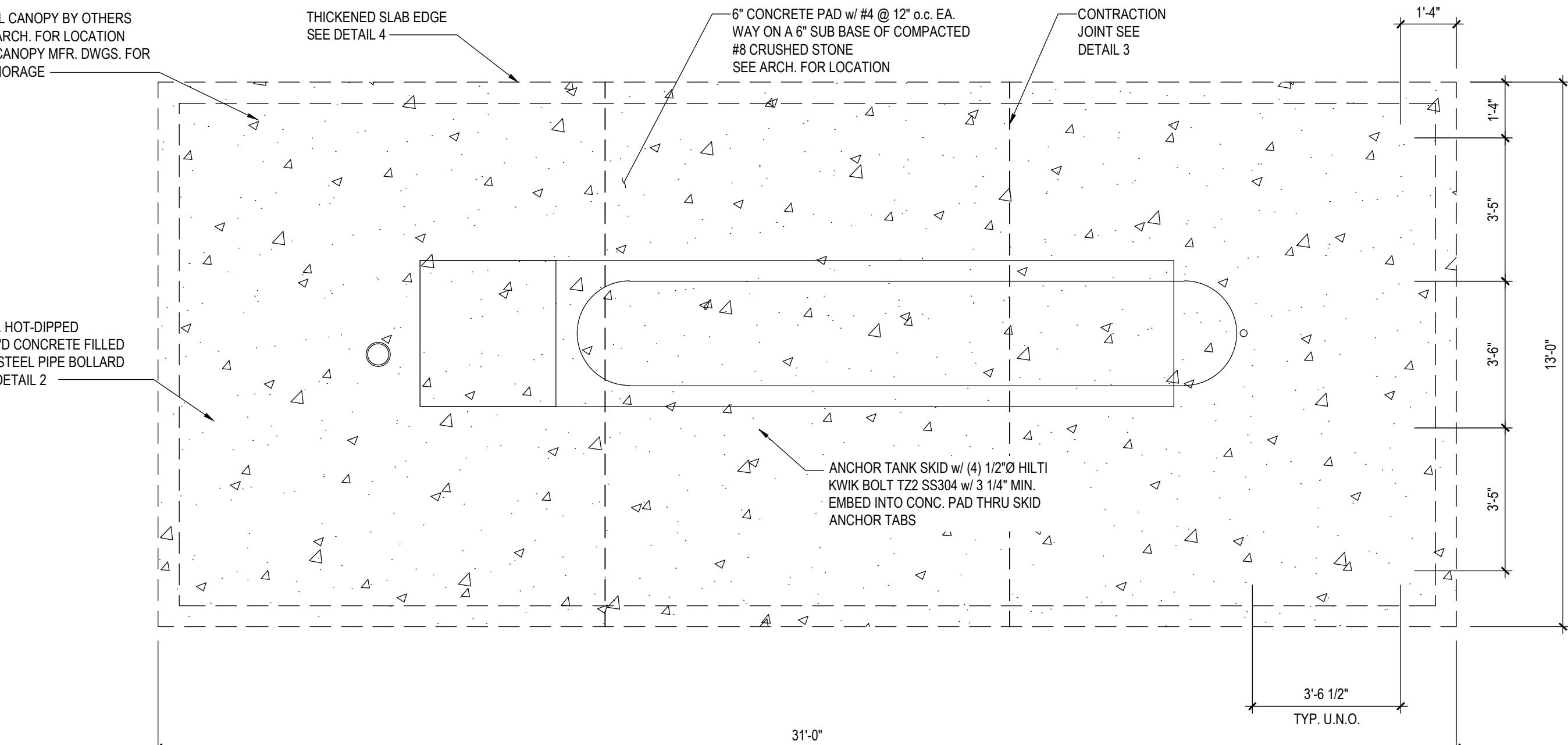
- During the taking of test specimens and placing of reinforced concrete (except slabs on grade).

Bolts installed in concrete:

- Prior to and during the placement of concrete around bolts identified on the drawings (if any) as requiring special inspections.

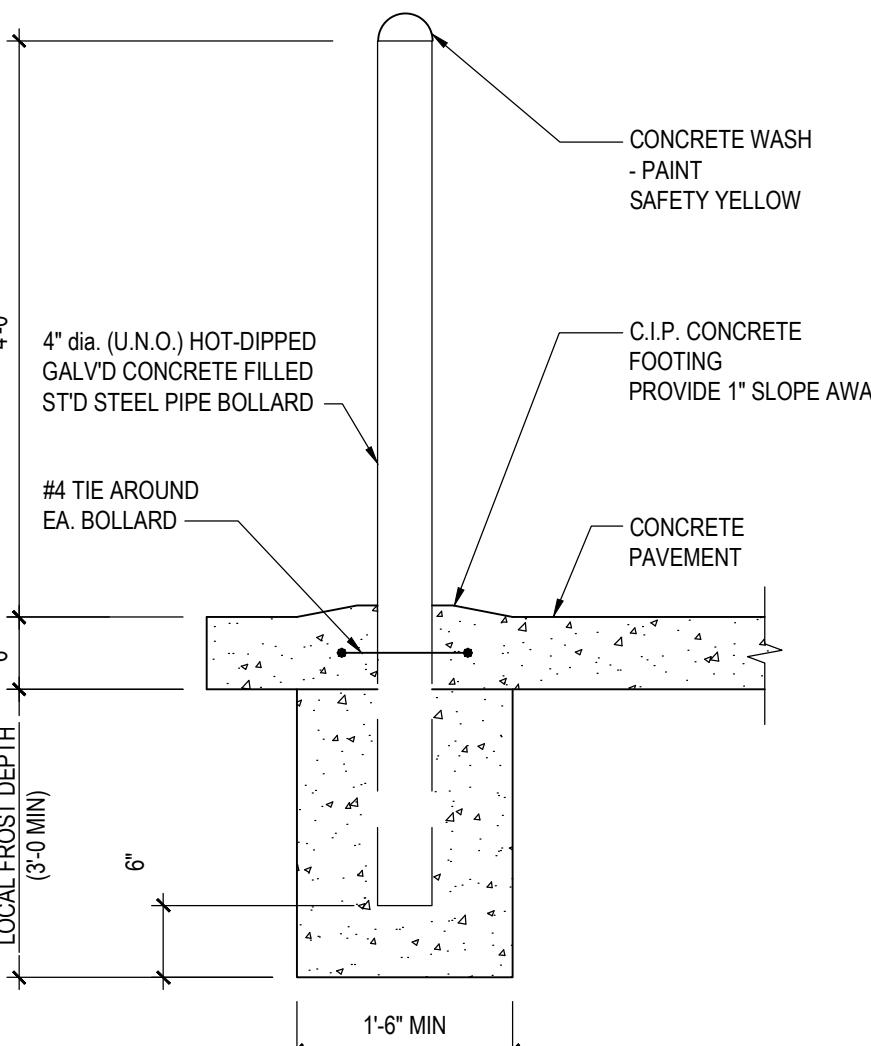
Reinforcing steel:

<li



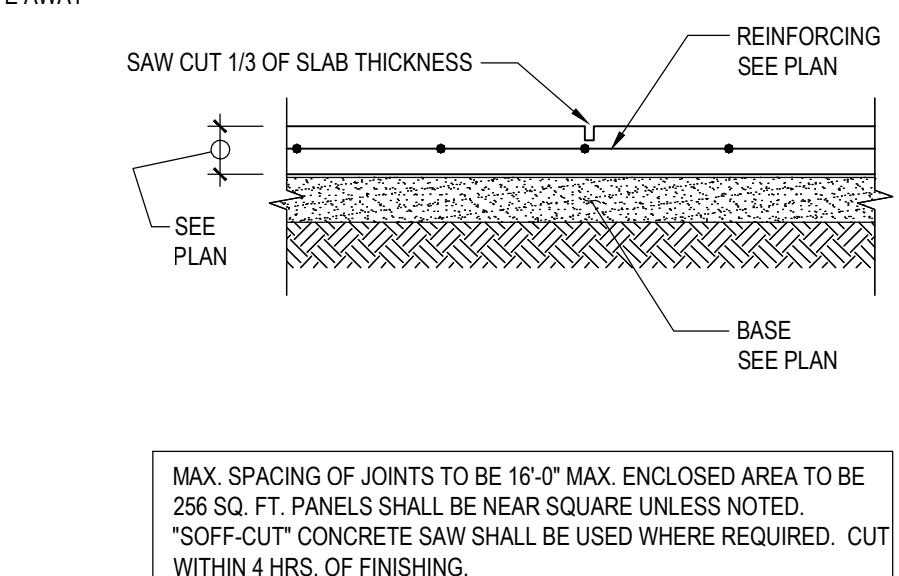
1 | PROPANE VESSEL PAD

3/8" = 1'-0"



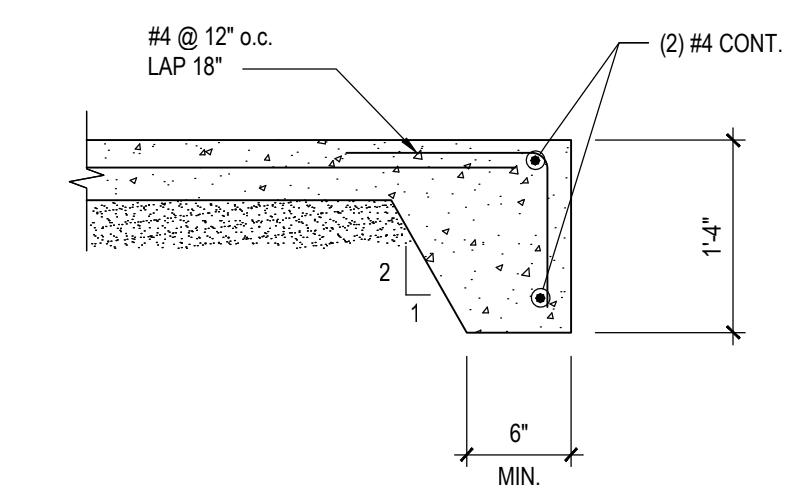
2 | DETAIL

TYPICAL BOLLARD



3 | DETAIL

TYPICAL SLAB ON GRADE CONTRACTION JOINT



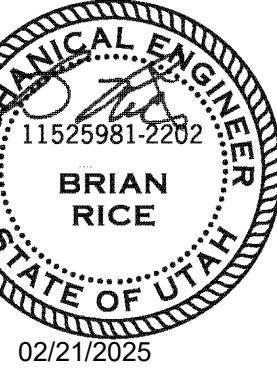
4 | DETAIL

TYPICAL TURNED DOWN SLAB

Project No.: 25.0167
Drawn By: YC
Date 02-07-25 Issue BID/ PERMIT

KEYNOTE SCHEDULE

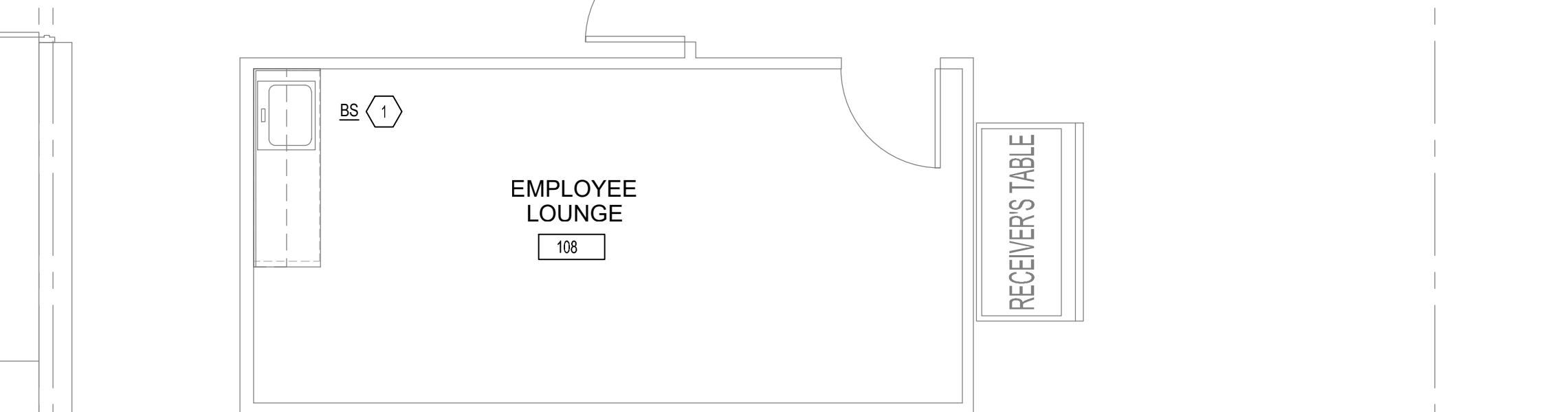
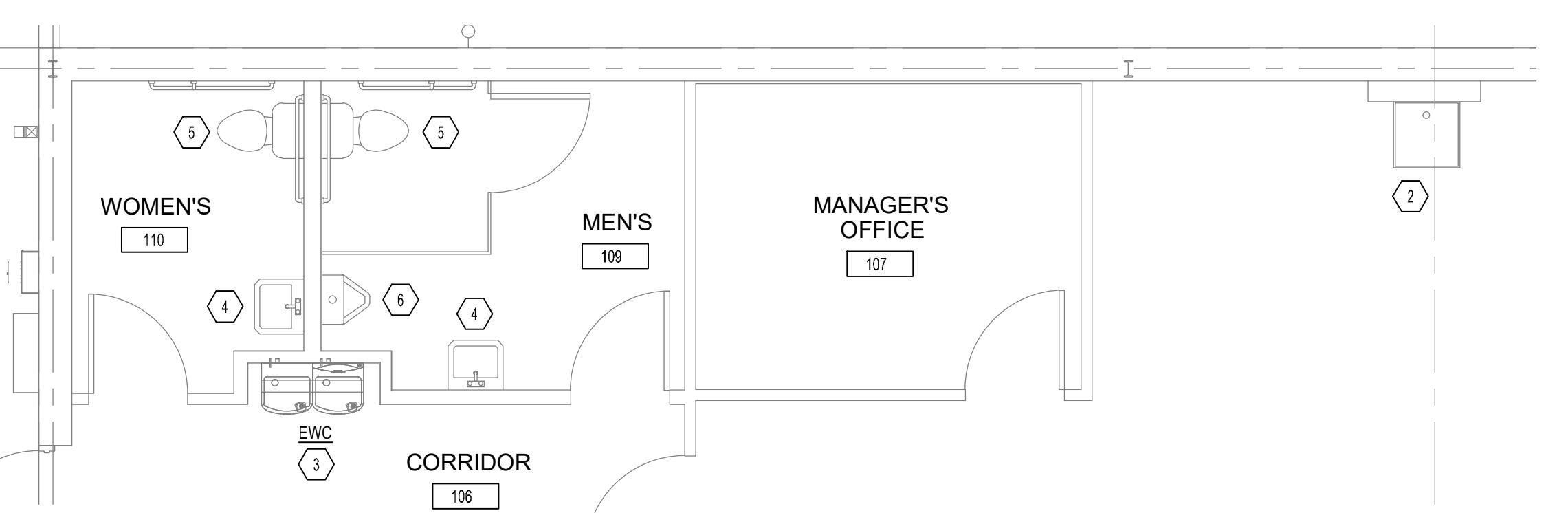
1. REPLACE EXISTING BREAKROOM SINK. BID AS PROVIDED BY TRACTOR SUPPLY COMPANY. RECONNECT WASTE, VENT, SINK AND WATER TO EXISTING LINES AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION.
2. CAPACITY TEST EXISTING MOP SINK. BID AS ALTERNATE TO REPLACE WITH NEW "LIKE FOR LIKE" UNIT IF BASIN AND/OR FAUCET ARE FOUND LEAKING.
3. EXISTING PLUMBING FIXTURE TO BE REPLACED PER PLUMBING FIXTURE SCHEDULE. USE EXISTING UTILITIES WITHIN WALLS AND FLOOR TO RE-CONNECT AT MODIFIED LOCATIONS. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS OF EXISTING UTILITY CONNECTIONS BEFORE CONSTRUCTION.
4. EXISTING LAVATORY TO BE REUSED. CLEAN WALL MOUNTED SINK(S) AND RE-CAULK TO WALL. ENSURE CAULK IS CLEAN/SMOOTH TRANSITION FROM TSC TO WALL. CLEAN EXISTING HARDWARE. HARDWARE INCLUDES: ESCUTCHEON TRIM RING, VALVE, AND SUPPLY LINE. IF HARDWARE WILL NOT COME CLEAN BID AS ALTERNATE TO REPLACE. REPLACE ADA WRAPS.
5. EXISTING WATER CLOSET TO BE REUSED. CLEAN WATER CLOSET AND RE-CAULK TO FLOOR. REPLACE THE SEAT. IF HARDWARE WILL NOT COME CLEAN PER TSC BID, FURNISH AND INSTALL NEW HARDWARE INCLUDING ESCUTCHEON, TRIM RING, VALVE, AND SUPPLY LINE. IF HARDWARE WILL NOT COME CLEAN PER TSC PM, FURNISH AND INSTALL NEW HARDWARE INCLUDING ESCUTCHEON, TRIM RING, VALVE, AND SUPPLY LINE. RETROFIT EXISTING FLUSHVALVE WITH ZURN MODEL ZERK-CPM MOTION SENSOR.
6. EXISTING URINAL TO BE REUSED. ENSURE CAULK IS CLEAN/SMOOTH TRANSITION FROM TSC WALL. IF HARDWARE WILL NOT COME CLEAN PER TSC PM, FURNISH AND INSTALL NEW HARDWARE INCLUDING ESCUTCHEON, TRIM RING, VALVE, AND SUPPLY LINE.



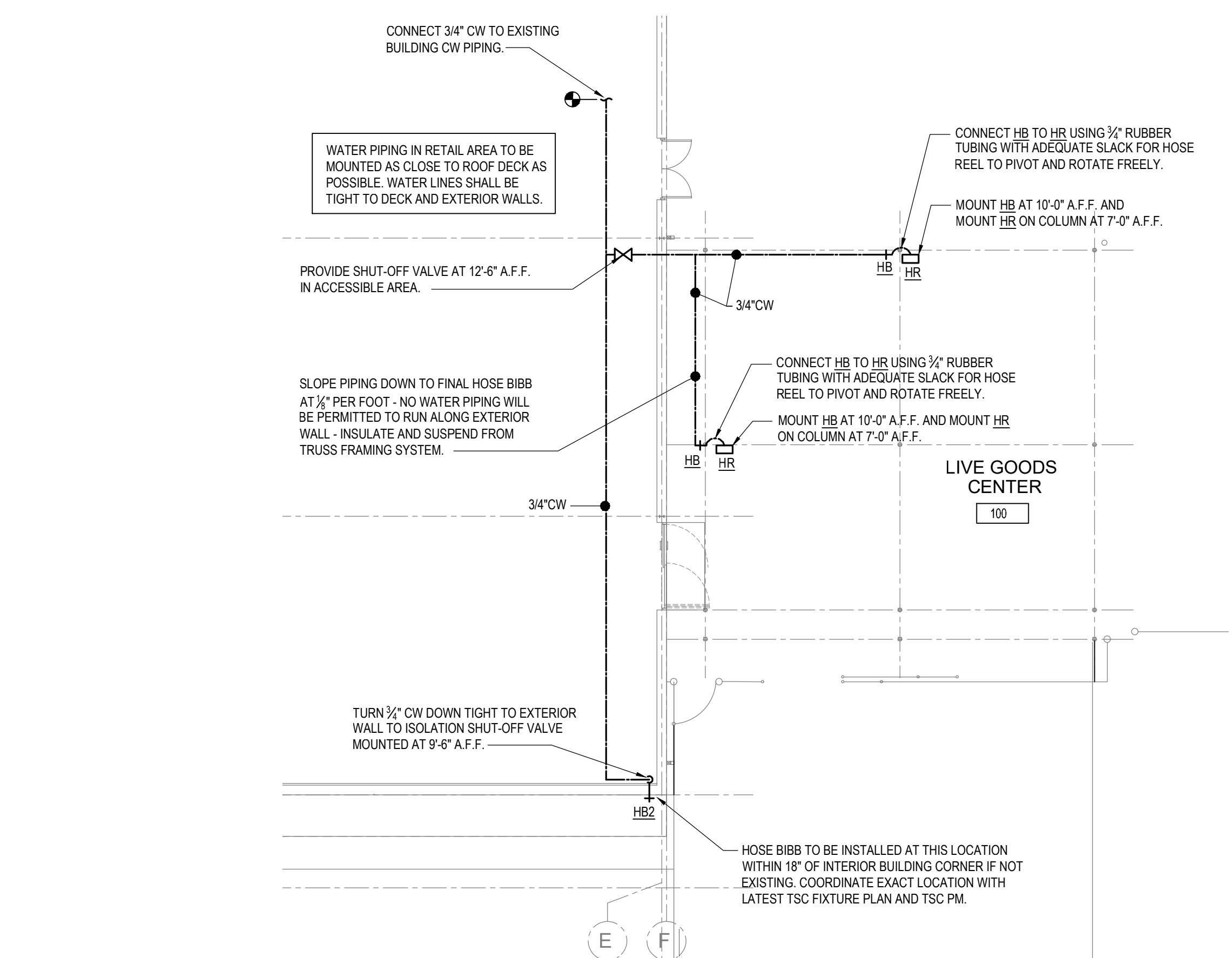
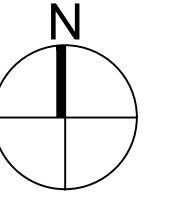
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PLUMBING GENERAL NOTES:

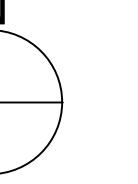
- PLUMBING CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATIONS AND SIZES OF ALL UTILITIES, INCLUDING THE DEPTHS OF ALL BELOW GRADE SANITARY SEWERS, PRIOR TO START OF WORK. THIS DRAWING IS NOT INTENDED TO INDICATE ALL EXISTING UTILITIES.
- CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID AND FIELD VERIFY EXISTING CONDITIONS TO ENSURE THAT THE WORK REPRESENTED ON THE DRAWINGS AND IN THESE SPECIFICATIONS CAN BE INSTALLED AS INDICATED. CONTRACTOR SHALL TAKE ALL INTERFERENCES INTO CONSIDERATION. IDENTIFY POTENTIAL INTERFERENCES WITH NEW WORK AND REPORT TO ARCHITECT IMMEDIATELY. PROVIDE ALL NECESSARY OFFSETS TO SUIT FIELD CONDITIONS AS REQUIRED.
- CONTRACTOR SHALL VERIFY AND COORDINATE ALL UTILITY CONNECTION POINTS, INCLUDING SIZES AND INVERTS WITH EXISTING FIELD CONDITION PRIOR TO START OF WORK.
- MAKE ALL UTILITY CONNECTIONS AND INSTALLATIONS IN FULL CONFORMANCE WITH ALL UTILITY REGULATIONS. PROVIDE ALL ADDITIONAL APPURTENANCES AS REQUIRED BY UTILITY COMPANY. THE COMPLETED INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE INDUSTRY STANDARDS OF GOOD PRACTICE AND SAFETY, AND THE MANUFACTURER'S STRICTEST RECOMMENDATIONS FOR EQUIPMENT AND PRODUCT APPLICATION AND INSTALLATION.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS RELATED TO THE INSTALLATION OF THE WORK.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, LAWS, ACTS AND ALL AUTHORITIES HAVING JURISDICTION AND LANDLORD'S CRITERIA.
- MAINTAIN ALL MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES FOR ALL FIXTURES AND EQUIPMENT. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF PLUMBING FIXTURES.
- CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS BEFORE COMMENCING ANY WORK.
- SLEEVE AND SEAL ALL PIPE PENETRATIONS OF WALLS AND FLOORS. APPLY INTUMESCENT FIRE SAFING COMPOUND AT PENETRATIONS OF FIRE-RATED WALLS AND FLOORS, MAINTAINING INTEGRITY AND RATING OF FIRE SEPARATION. SLEEVES THROUGH FLOORS SHALL EXTEND 2' ABOVE FLOOR, BE GROUTED INTO PLACE AND WATERPROOFED. PIPING THROUGH EXTERIOR WALLS SHALL BE SLEEVED AND SEALED WEATHER TIGHT WITH SILICONE CAULK.
- SANITARY WASTE AND VENT PIPE SHALL BE CAST IRON WITH NO-HUB FITTINGS OR SCHEDULE 40 PVC.
- DOMESTIC WATER PIPES SHALL BE TYPE "K" COPPER ABOVE GROUND / SLAB AND TYPE "K" COPPER BELOW GRADE / SLAB. INSTALL DIELECTRIC UNIONS AT CONNECTION TO DISIMILAR METALS.
- ALL DOMESTIC COLD, HOT AND TEMPERED WATER PIPING TO BE INSULATED WITH RIGID FIBERGLASS INSULATION WITH TYPE "ASJ" JACKET. COLD WATER PIPES TO HAVE 1/2" THICK INSULATION. DOMESTIC HOT AND TEMPERED WATER PIPES TO HAVE 1" THICK INSULATION.
- WHEN SUBMITTING SHOP DRAWINGS FOR PLUMBING FIXTURES, PLUMBING CONTRACTOR TO PROVIDE SEPARATE WATER CLOSET FIXTURE CUTS SHOWING FLUSH HANDLES ON APPROPRIATE SIDES OF TANK FOR ADA ACCESS.
- PVC PIPING IS NOT ALLOWED TO BE INSTALLED ABOVE GRADE UNLESS PERMITTED BY CODE AND IS NOT ALLOWED TO BE INSTALLED IN RETURN AIR PLenums.
- 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 YELLOW CORROSION RESISTANT PAINT.



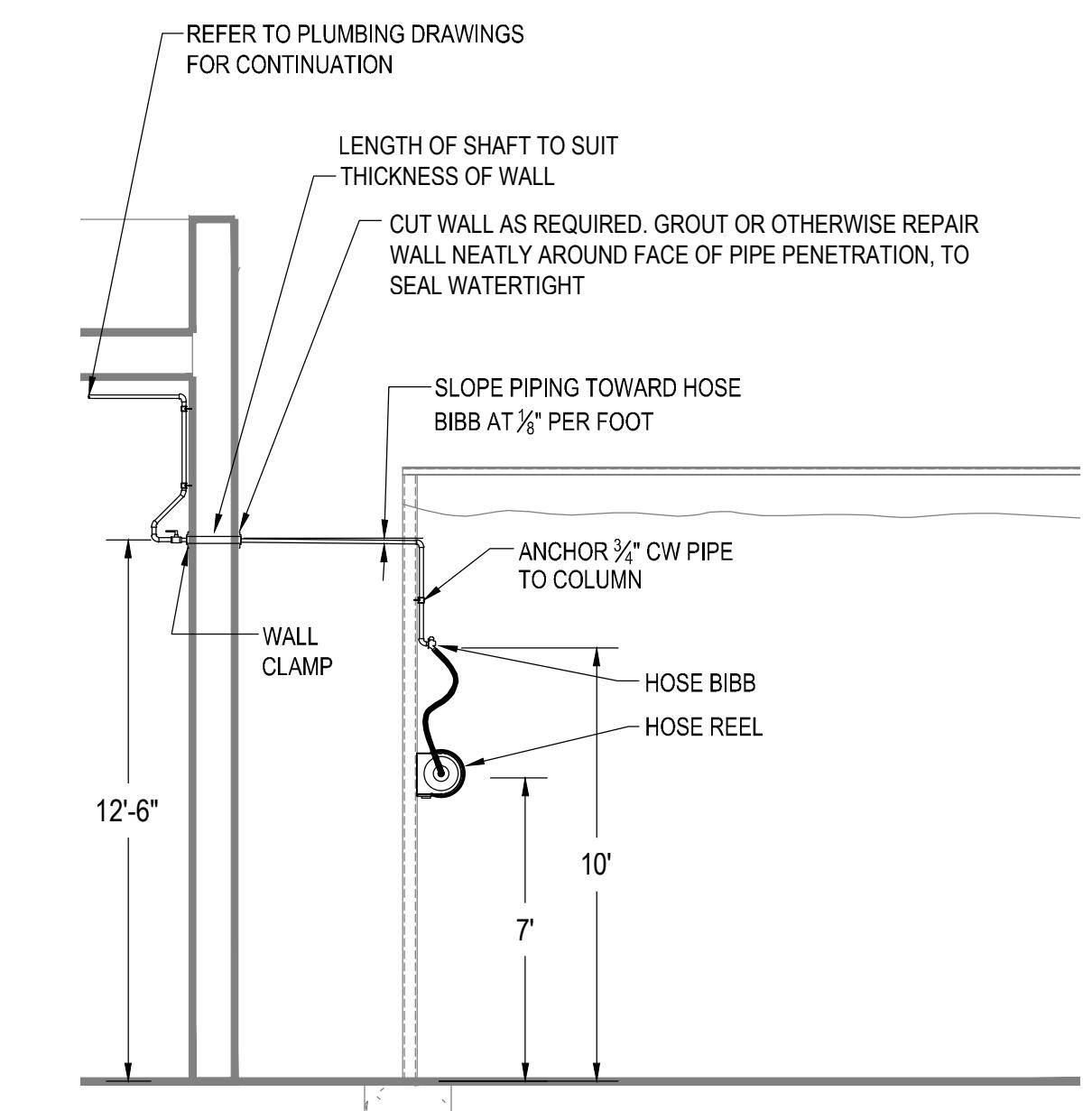
ENLARGED PLUMBING PLAN
SCALE: 1/4" = 1'-0"



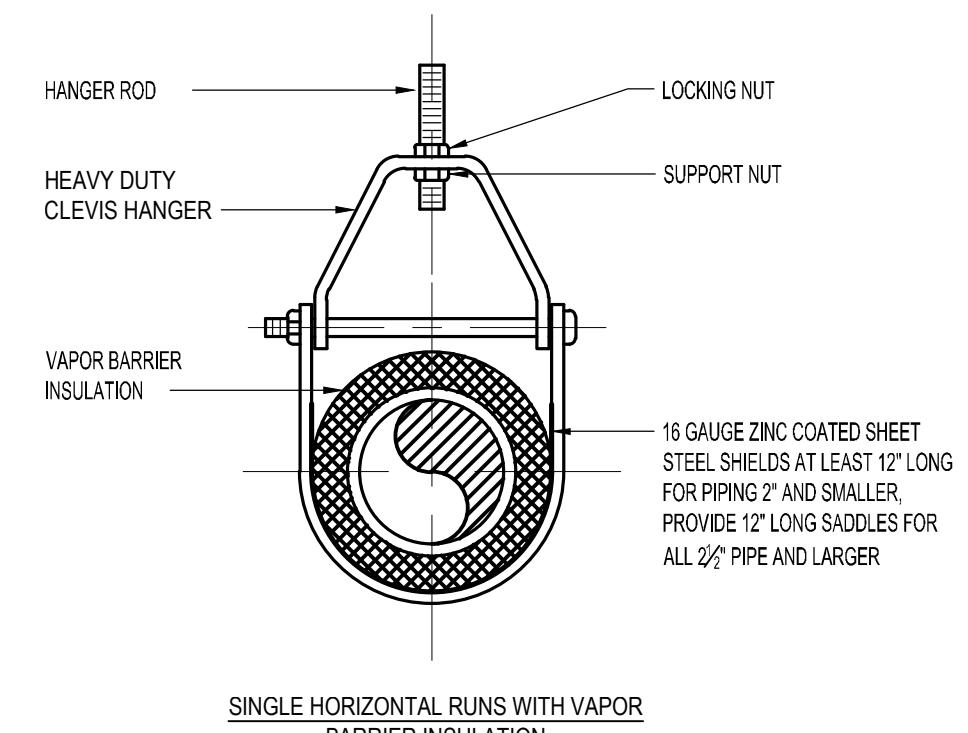
PLUMBING PLAN
SCALE: 3/32" = 1'-0"



PLUMBING FIXTURE SPECIFICATIONS	
MARK	DESCRIPTION
BS	BREAKROOM SINK (SINGLE BOWL, S.S., GOOSENECK): SINK & FAUCET SHALL BE FURNISHED BY TRACTOR SUPPLY & INSTALLED BY CONTRACTOR. 20 GA. STAINLESS STEEL DEEP BOWL. SELF RIM w/ 3-HOLE REAR DECK. LEVER HANDLE FAUCET (1.8GPM) w/ GOOSENECK SPOUT; POLISHED CHROME FINISH. MCGUIRE #8912 P-TRAP & (2) #2165-CC SUPPLIES w/ STOPS. PROVIDE TRUEBRO HANDI-LAV GUARD INSULATION KIT #102W w/ ACCESSORY #105W. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
EWC-1	ELECTRIC WATER COOLER / BOTTLE FILLER (ACCESSIBLE, MOTION SENSOR, DUAL-HEIGHT): MURDOCK MODEL A172108F-UG-BF12-BCD WITH INFRARED SENSOR CONTROL AND WALL MOUNTING BRACKET. 8 GPH, 115V/160. MOUNT HIGH UNIT AT 42" MAXIMUM FROM FLOOR TO SPOUT OUTLET AND LOW UNIT AT 36" MAXIMUM FROM FLOOR TO SPOUT OUTLET. PROVIDE MCGUIRE 8912 P-TRAP AND MCGUIRE 165-CC SUPPLY w/ STOP. COORDINATE WITH ELECTRICAL CONTRACTOR TO LOCATE RECEPTACLE BEHIND WATER COOLER CABINET.



2 | GARDEN CENTER HOSE REEL SERVICE PIPING DETAIL
N.T.S.



1 | CLEVIS HANGER DETAIL
N.T.S.

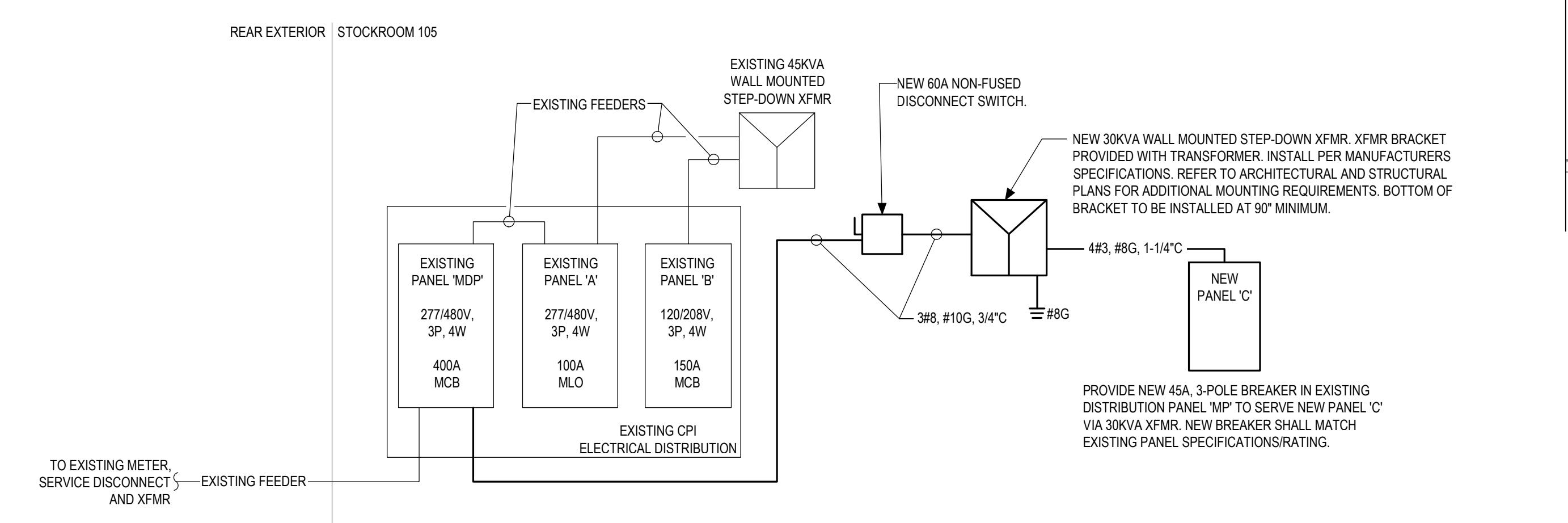
PANEL			MAIN: 100A MAIN CIRCUIT BREAKER		VOLTAGE: 120/208							
C (NEW)			PHASE: 3		WIRE: 4		BUS AMPS: 100		AIC: 10K			
MOUNTING: SURFACE LOCATION: STOCKROOM 105			FEED THRU LUGS: NO		ISOLATED GROUND BUS: NO							
CKT	NOTE	BKR	LOAD DESCRIPTION	KVA	A0	B0	C0	KVA	LOAD DESCRIPTION	BKR	NOTE	CKT
1	LZ1B	20/1	Fixture Lighting	1.0	2.0			1.0	Chick Days Power Reel	20/1	2	
3	LZ1B	20/1	Fixture Lighting	1.0		2.0		1.0	Chick Days Power Reel	20/1	4	
5	LZ1B	20/1	Fixture Lighting	1.0			2.0	1.0	Chick Days Power Reel	20/1	6	
7		20/1	Fixture Receptacles	0.6		1.6		1.0	Chick Days Power Reel	20/1	8	
9		20/1	Self Checkout/TV RCPT	0.9		1.9		1.0	Hand Dryer	20/1	L	10
11		20/1	Automatic Door	0.5			1.5	1.0	Hand Dryer	20/1	L	12
13		20/1	Sales Floor AH COOLER	0.8	1.3			0.5	Lighting Control Panel	20/1	L	14
15	LZ1B	20/1	Fixture Lighting	1.0		2.2		1.2	Sliding Gate	20/1	16	
17	LZ1A	20/2	Live Goods Center Lights/RCPT	0.4			0.4	0.0	Spare	20/1		18
19	LZ3		Live Goods Center Signage	0.5		0.5		0.0	Spare	20/1		20
21		20/1	Spare	0.0		0.0		0.0	Spare	20/1		22
23		20/1	Spare	0.0		0.0		0.0	Spare	20/1		24
25		20/1	Spare	0.0		0.0		0.0	Spare	20/1		26
27		20/1	Spare	0.0		0.0		0.0	Spare	20/1		28
29		20/1	Spare	0.0		0.0		0.0	Spare	20/1		30
31		20/1	Spare	0.0		0.0		0.0	Spare	20/1		32
33		20/1	Spare	0.0		0.0		0.0	Spare	20/1		34
35			Space						Space			36
37			Space						Space			38
39			Space						Space			40
41			Space						Space			42

NOTES:
L HANDLE LOCK
GFI GROUND FAULT INTERRUPTING
AFI ARC FAULT INTERRUPTING
CD CONTINUOUS DUTY
H HACR RATED
TOTAL KVA PER PHASE: 5.4 6.1 3.9
TOTAL KVA: 15.4
TOTAL AMPS: 42.7

NOTES:
LZ1A ROUT THRU RELAY ZONE #1A (EMPLOYEE)
LZ1B ROUT THRU RELAY ZONE #2B (CUSTOMER)
LZ3 ROUT THRU RELAY ZONE #3 (EXTERIOR)

LIGHT FIXTURE SCHEDULE							
MARK	SYMBOL	MANUFACTURER CATALOG NO.	MOUNTING	LAMPS	Fixture Watts	Voltage	DESCRIPTION
G	○	MAXLITE HL-AR100W-50G-D1	PENDANT	9,600 LUMEN LED 5000K	100	UNIV.	CLASS 1 DIV. 1 PROPANE STATION LTG. AMBIENT OPERATING TEMP. -40°C - 60°C.
Y		METALUX 8VT2-LD5-9-DR-UNV-L850-CD1-WL-U	SURFACE	9000 LUMEN LED 5000K	66	UNIV.	8' LED STRIP WITH LENS AND GASKET
YE		METALUX 8VT2-LD5-9-DR-UNV-EL10W-CD1-WL-U	SURFACE	9000 LUMEN LED 5000K	66	UNIV.	SAME AS "Y" BUT PROVIDE WITH INTEGRAL EMERGENCY BATTERY
K		LITHONIA DSXWLED-10C-1000-50K-T3M-MVOLT-BBW-DBBXD	SURFACE	N/A	39	120V	NEW LED WALLPACK IF REQUIRED TO REPLACE EXISTING NON-LED FIXTURES.
X	✖	EXITRONIX LIGHTING VEX-U-BP-WB-WH	SURFACE	INCL.	-	UNIV.	LED EXIT SIGN
XW	✖	EXITRONIX LIGHTING VEX-WP-1-WB-WH / LL50H-N4-IH	SURFACE	INCL.	-	UNIV.	WEATHERPROOF LED EXIT SIGN AND EMERGENCY LIGHT

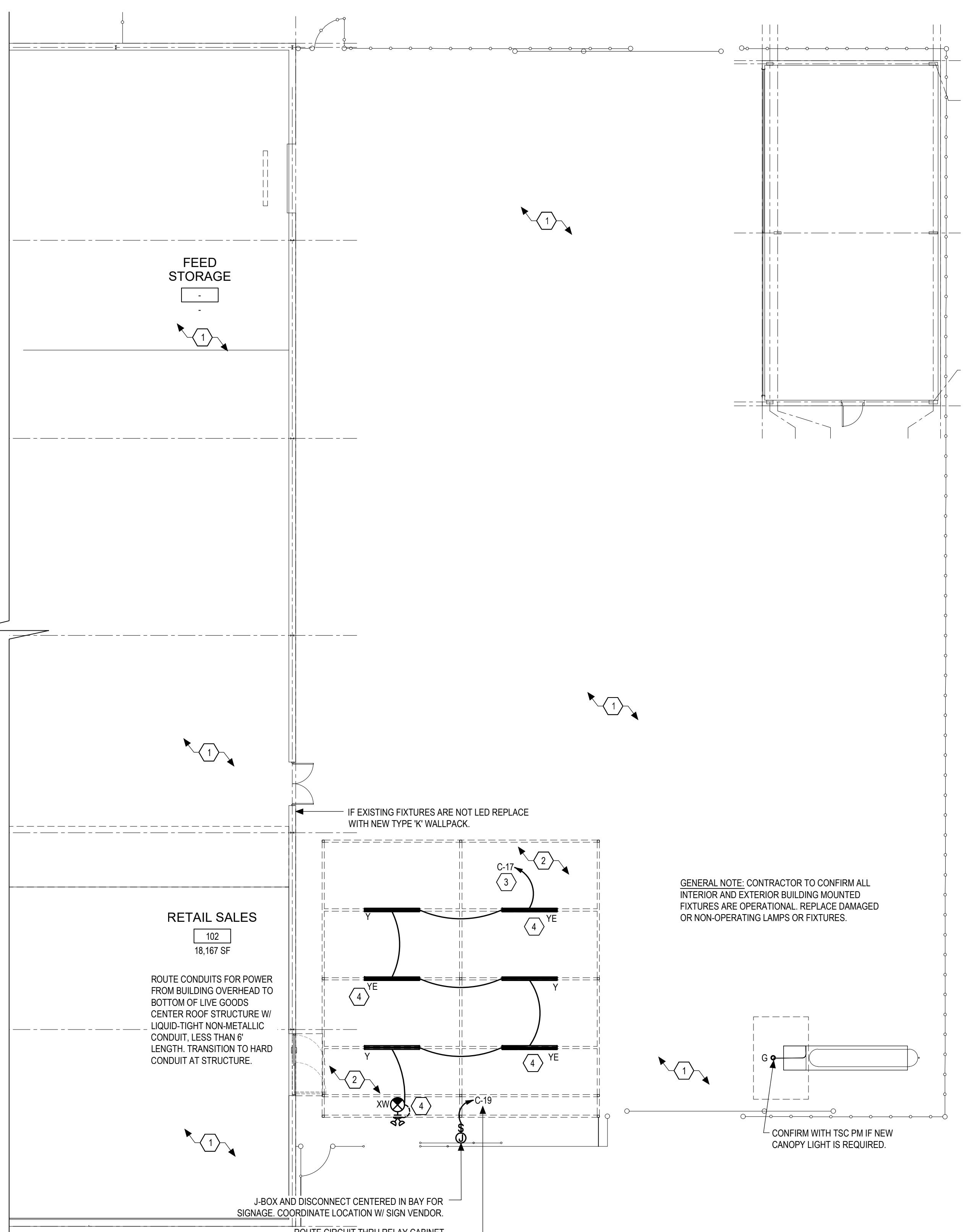
NOTES:
1. EC SHALL ORDER LIGHTING FIXTURES & POWER POLES THROUGH TRACTOR SUPPLY COMPANY'S NATIONAL AGREEMENT WITH VILLA LIGHTING SUPPLY, INC. CONTACT ANNE VOELKER (TRACTORSUPPLY@VILLALIGHTING.COM) AT 314-633-6564 FOR ORDER PLACEMENT.
2. EC IS NOT RESPONSIBLE FOR PURCHASING LIGHTING FIXTURES & POWER POLES AS VENDOR WILL INVOICE TRACTOR SUPPLY DIRECTLY.



1 | ONE-LINE DIAGRAM

N.T.S.

ELECTRICAL SERVICE CALCULATIONS	
EXISTING PEAK DEMAND LOAD: 50.7kW / .9PF = 56.3 kVA	
56.3 X 1.25% = 70.4 kVA	
ADDED LOAD = 15.4 kVA	
TOTAL LOAD = 85.8 kVA = 103.2A	
SERVICE SIZE = 400A @ 277/480V, 3P, 4W	



KEYED NOTE SCHEDULE

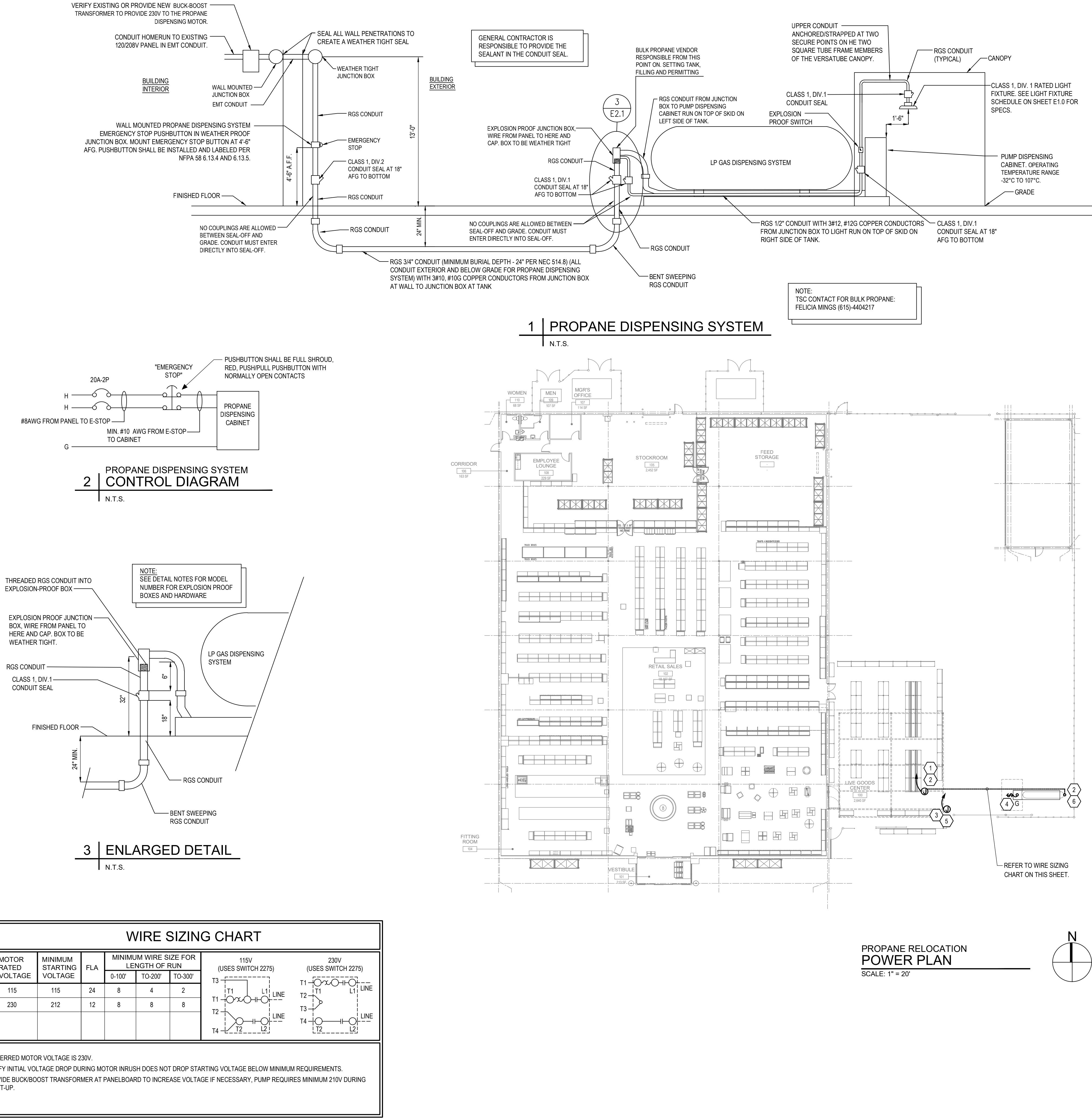
1. ENSURE ALL EXISTING SITE POLE AND INTERIOR/EXTERIOR LIGHTING FIXTURES ARE IN GOOD WORKING ORDER, REPAIR AND/OR REPLACE FIXTURES AS NEEDED. BID AS ALTERNATE IF REPAIRS ARE NEEDED.
2. COORDINATE EXACT LOCATION OF ALL LIGHTING FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
3. PROVIDE (3) #12, #12G, 3/4" C TO 20A, 120V LIGHTING CIRCUIT. ROUTE CIRCUIT THROUGH LIGHTING CONTACT RELAY CABINET TO OPERATE LIGHTING WITH RETAIL SPACE PROVIDE UNSWITCHED HOT FOR EMERGENCY BALLASTS/BATTERY AS NEEDED. PROVIDE ADDITIONAL RELAYS AS NEEDED. COORDINATE EXACT REQUIREMENTS.
4. CIRCUIT EMERGENCY BALLAST/BATTERY BACKUP TO UNSWITCHED CONTINUOUSLY HOT CONDUCTOR OF CIRCUIT INDICATED.

ERRC COMPLIANCE/TESTING

WHERE REQUIRED BY THE AHJ, CONTRACTOR SHALL ENGAGE AN INDEPENDENT EMERGENCY RESPONDER RADIO COVERAGE (ERRC) TESTING COMPANY TO VERIFY SIGNAL STRENGTH INSIDE OF BUILDING AFTER COMPLETION OF CONSTRUCTION & PLACEMENT OF MERCHANDISE, INCLUDING ALL CRITICAL REQUIRED AREAS. IF SIGNAL STRENGTH IS NOT ADEQUATE TO THE AHJ STANDARDS, CONTACT AOR FOR ERRC IMPROVEMENT PACKAGE.

GENERAL NOTES:

- A. ALL DEVICES, EQUIPMENT, FIXTURES, ETC. MUST BE GROUNDED BY USE OF A PROPERLY SIZED GROUNDING CONDUCTOR. MECHANICAL/ELECTRICAL BONDS OF THE METALLIC RACEWAY SYSTEM SHALL ALSO BE MAINTAINED.
- B. BRANCH CIRCUIT WIRE SIZES (AND CONDUITS) SHALL BE INCREASED FROM THOSE INDICATED ON THE PLANS TO PREVENT EXCESSIVE VOLTAGE DROP. BRANCH CIRCUITS SHALL BE INSTALLED WITH WIRES OF SUFFICIENT SIZE SO THAT VOLTAGE DROP BETWEEN THE PANEL AND THE LOADS DOES NOT EXCEED A LIMIT OF 3%.
- C. CIRCUITS MAY BE COMBINED IN CONDUIT PROVIDED WIRE IS PROPERLY DERATED AND CONDUIT SIZED PER CODE. UNDER NO CIRCUMSTANCES SHALL MORE THAN NINE (9) CURRENT CARRYING CONDUITS BE RUN IN A SINGLE CONDUIT.
- D. ALL CONDUITS SHALL CONTAIN A GROUND WIRE SIZED PER NEC TABLE #250-122, WHERE CIRCUIT CONDUCTORS ARE INCREASED IN SIZE FOR VOLTAGE DROP. THE GROUND WIRE SIZE SHALL BE INCREASED PROPORTIONATELY (ACCORDING TO CIRCULAR MIL AREA) FROM THE SIZE REQUIRED BY NEC TABLE #250-122.
- E. EXPOSED CONDUITS, WHERE PERMITTED, SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES TO BUILDING STRUCTURAL MEMBERS.
- F. ALL DEVICE COVER PLATES SHALL BE WHITE UNLESS NOTED OTHERWISE.
- G. PROVIDE FUNCTIONAL TESTING FOR LIGHTING CONTROLS AND ALL REQUIRED REPORTING AND DOCUMENTATION PER ENERGY CODE REQUIREMENTS.



PROPANE RESPONSIBILITY NOTES:

IF PROPANE IS DELIVERED PRIOR TO FIXTURE DATE:

- GC IS RESPONSIBLE FOR INFRASTRUCTURE RELATED TO PROPANE TANK INSTALLATION.
- GC IS RESPONSIBLE FOR ELECTRICAL PERMITTING AND FINAL CONNECTION TO PUMP DISPENSING CABINET.
- BULK PROPANE VENDOR IS RESPONSIBLE FOR GAS PERMITTING OF THE TANK.
- BULK PROPANE VENDOR IS RESPONSIBLE FOR INSTALLATION AND FINAL GAS CONNECTION AND INSPECTION OF THE TANK.

IF PROPANE TANK IS DELIVERED AFTER FIXTURE DATE:

- GC IS RESPONSIBLE FOR INFRASTRUCTURE RELATED TO PROPANE TANK INSTALLATION.
- BULK PROPANE VENDOR IS RESPONSIBLE FOR ELECTRICAL PERMITTING AND FINAL CONNECTION TO PUMP DISPENSING CONTROL PANEL.
- BULK PROPANE VENDOR IS RESPONSIBLE FOR GAS PERMITTING OF THE TANK.
- BULK PROPANE VENDOR IS RESPONSIBLE FOR INSTALLATION AND FINAL GAS CONNECTION AND INSPECTION OF THE TANK.

DETAIL NOTES:

- CONDUIT FROM BUILDING TO DISPENSING SYSTEM SHALL BE ROUTED MINIMUM 24" BELOW GRADE PER NEC ARTICLE 514.8.
- ALL EQUIPMENT LOCATED WITHIN FIVE FEET OF TANK SHALL BE RATED FOR USE IN CLASS 1, DIVISION 1 HAZARDOUS LOCATIONS.
- ALL EQUIPMENT LOCATED BETWEEN FIVE FEET OF TANK AND 20 FEET OF TANK SHALL BE RATED FOR USE IN CLASS 1, DIVISION 2 HAZARDOUS LOCATIONS.
- ALL CONDUIT SHALL BE RGS, NO MC OR BLACK IRON PERMITTED. ALL FITTINGS ON RGS CONDUITS SHALL BE THREADED.
- CONDUIT SEALS SHALL BE INSTALLED ON ALL CONDUITS THAT PASS INTO OR THROUGH THE CLASS 1, DIVISION 1 OR 2 HAZARDOUS BOUNDARIES WITHIN TEN FEET AFTER PENETRATION ABOVE GRADE ON EACH END OF CONDUIT PER NEC 514.9.
- PROVIDE AND INSTALL (1) EXPLOSION-PROOF JUNCTION BOX AT THE DISPENSING UNIT. JUNCTION BOX TO BE COOPER CROUSE HINDS MODEL #GUW26. INSTALL SUCH THAT BOX IS IN A VERTICAL POSITION SO THE MAXIMUM WIDTH IS 1/4". COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH PROPANE DISPENSING VENDOR PRIOR TO ROUGH-IN. COORDINATE LOCATION OF CONDUIT ENTRIES WITH PROPANE DISPENSING VENDOR PRIOR TO ORDERING.
- REFERENCE SHEET A-1 FOR EXACT LOCATION OF CONDUIT STUB-UP AT PROPANE TANK.

KEYED NOTE SCHEDULE

- RE-ROUTE PROPANE DISPENSING CIRCUIT TO NEW PROPANE LOCATION. IF ADDITIONAL CIRCUIT LENGTH REQUIRES INCREASED WIRE SIZE DUE TO WIRE SIZING CHART, NEW CIRCUITING SHALL BE EXTENDED FULL LENGTH FROM PANEL TO PROPANE DISPENSING UNIT.
- EXISTING PROPANE DISPENSING SYSTEM TO BE RELOCATED. REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT AND WIRING. CONDUITS SHALL BE CUT BELOW GRADE AND SURFACE PATCHED TO MATCH SURROUNDING SURFACES. LOCATION FOR CONDUIT PENETRATION THROUGH GRADE FROM BUILDING TO PROPANE GAS DISPENSING SYSTEM. VERIFY WITH TSC PROJECT MANAGER IF SCP CANNOT BE FOLLOWED. REFERENCE DETAILS 1.2.3 ON SHEET E2.1.
- PROPANE EMERGENCY STOP BUTTON, LOCATE GREATER THAN 25' BUT LESS THAN 100' FROM PROPANE DISPENSING UNIT WITHIN SIGHT OF UNIT. WALL MOUNTED PROPANE DISPENSING SYSTEM EMERGENCY STOP PUSHBUTTON IN WEATHERPROOF 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 3 ON SHEET E2.1 FOR CONTROL DIAGRAM. PUSHBUTTON SHALL BE INSTALLED AND LABELED PER NFPA 58.1.3.4 AND 6.1.3.
- PROVIDE TYPE "G" LIGHTING FIXTURE AT CANOPY CONTROLLED BY AN EXPLOSION-PROOF SWITCH. CONNECT LIGHT TO PROPANE DISPENSING CIRCUIT. SEE DETAIL 1 ON SHEET E2.1.
- 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.
- PROVIDE AND INSTALL (1) EXPLOSION-PROOF JUNCTION BOX AT THE DISPENSING UNIT. JUNCTION BOX TO BE COOPER CROUSE HINDS MODEL #GUW26. INSTALL SUCH THAT BOX IS IN A VERTICAL POSITION SO THE MAXIMUM WIDTH IS 1/4". COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH PROPANE DISPENSING VENDOR PRIOR TO ROUGH-IN. COORDINATE LOCATION OF CONDUIT ENTRIES WITH PROPANE DISPENSING VENDOR PRIOR TO ORDERING.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	MTG. HGT. (U.N.O.)
\$	LIGHT SWITCH	48"
\$M	MOTOR RATED TOGGLE SWITCH	
\$WS	WALL MOUNTED OCCUPANCY SENSOR	48"
CE	CEILING MOUNTED OCCUPANCY SENSOR	
Φ / Φ / #	SINGLE / DOUBLE DUPLEX RECEPTACLE	18"
Φ / Φ / #P	RECEPTACLE WITH GROUND FAULT PROTECTION	18"
Φ / Φ / #WP	WEATHER RESISTANT RECEPTACLE WITH WEATHERPROOF IN-USE COVER	18"
Φ / Φ / #WS	WEATHER RESISTANT RECEPTACLE	18"
JB	JUNCTION BOX	
TH	THERMOSTAT LOCATION, PROVIDE BOX WITH 1/2" CONDUIT TO CEILING SPACE	60"
TV	TELEPHONE JACK, PROVIDE BOX WITH 1/2" CONDUIT TO CEILING SPACE	18"
DA	DATA JACK, PROVIDE BOX WITH 3/4" CONDUIT TO CEILING SPACE	18"
BT	BUTTON	48"
BB	BELL/BUZZER	
PB	PANELBOARD	
MO	MOTOR	
ND	NON-FUSED DISCONNECT	
HS	HORN/STROBE	
SD	DUCT SMOKE DETECTOR	

ELECTRICAL SPECIFICATIONS

SECTION 16010 - ELECTRICAL GENERAL PROVISIONS

- THE PROVISIONS OF THE INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, ALTERNATES, ADDENDA AND DIVISION 1 ARE A PART OF THIS SPECIFICATION. ELECTRICAL, ARCHITECTURAL, MECHANICAL AND ALL OTHER DRAWINGS AS WELL AS THE SPECIFICATIONS FOR ALL THE DIVISIONS ARE A PART OF THE CONTRACT DOCUMENTS.
- VISIT THE SITE OF THE WORK AND BECOME FAMILIAR WITH THE CONDITIONS AFFECTING THE INSTALLATION. SUBMISSION OF A PROPOSAL SHALL PRESUPPOSE KNOWLEDGE OF SUCH CONDITIONS AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED WHERE EXTRA LABOR OR MATERIALS ARE REQUIRED BECAUSE OF IGNORANCE OF THESE CONDITIONS.
- DEFINITIONS:**
 - THE TERM "FURNISH" SHALL MEAN TO SUPPLY AND DELIVERY TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS.
 - THE TERM "INSTALL" SHALL MEAN WORK WHICH INCLUDES THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS.
 - THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
- INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, SERVICES AND PERMITS NECESSARY FOR THE PROPER COMPLETION OF ALL ELECTRICAL WORK SHOWN. ITEMS OMITTED, BUT NECESSARY, TO MAKE THE ELECTRICAL SYSTEM COMPLETE AND WORKABLE SHALL BE UNDERSTOOD TO FORM PART OF THE WORK.
- IT IS THE PURPOSE OF THE ELECTRICAL DRAWINGS TO INDICATE THE APPROXIMATE LOCATION OF ALL EQUIPMENT, OUTLETS, ETC. ASCERTAIN EXACT LOCATIONS AND ARRANGE WORK ACCORDINGLY. THE RIGHT IS RESERVED TO EFFECT REASONABLE CHANGES IN THE LOCATION OF OUTLETS UP TO THE TIME OF ROUGHING-IN, WITHOUT ADDITIONAL COST TO THE OWNER.
- TEMPERATURE AND INTERLOCK CONTROLS ARE PROVIDED AND WIRED BY A CONTROLS CONTRACTOR. LINE (120 VOLT) VOLTAGE CONTROL DEVICES, SUCH AS THERMOSTATS AND AQUASTATS, WHICH CONTROL FRACTIONAL HORSEPOWER, 120 VOLT MOTORS ARE FURNISHED BY MECHANICAL CONTRACTOR, AND ARE WIRED BY ELECTRICAL CONTRACTOR.
- SECURE AND PAY FOR PERMITS AND INSPECTIONS REQUIRED FOR THE ELECTRICAL WORK.
- WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF LOCAL AND STATE CODES, AS WELL AS THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- CONSULT THE DRAWINGS, PRODUCT DATA AND SHOP DRAWINGS COVERING THE WORK FOR VARIOUS OTHER TRADES, THE FIELD LAYOUTS OF THE CONTRACTORS FOR THE TRADE AND MAKE ADJUSTMENTS ACCORDINGLY IN LAYING OUT THE ELECTRICAL WORK.
- WARRANT THAT EQUIPMENT AND ALL WORK IS INSTALLED IN ACCORDANCE WITH GOOD ENGINEERING PRACTICE AND THAT ALL EQUIPMENT WILL MEET THE REQUIREMENTS SPECIFIED. GUARANTEE AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS; REPAIR OR REPLACE ANY DEFECTIVE WORK, MATERIAL OR EQUIPMENT WITHIN ONE YEAR FROM DATE OF ACCEPTANCE.
- THE EXISTING ELECTRICAL AND TELEPHONE SERVICE, AND ALL EXISTING COMMUNICATION SYSTEMS WITHIN THE BUILDING SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. ANY SERVICE SHUTDOWNS THAT MAY BE REQUIRED SHALL BE SCHEDULED THROUGH THE OWNER AND SHALL BE DONE AT A TIME AS DIRECTED BY THE OWNER. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THESE SHUTDOWN PERIODS EVEN THOUGH PREMIUM-TIME WORK MAY BE REQUIRED. PROVIDE TEMPORARY SERVICE TO EQUIPMENT OR SYSTEMS THAT CANNOT BE SHUTDOWN, AS DETERMINED BY OWNER.
- PROVIDE A MINIMUM OF ONE WEEK'S NOTICE TO THE OWNER BEFORE ANY SERVICE SHUTDOWN IS SCHEDULED.
- BIDS SHALL BE BASED UPON THE SPECIFIED PRODUCTS OR LISTED ALTERNATIVES. THE DRAWINGS AND SPECIFICATIONS ARE BASED ON THE PRODUCTS SPECIFIED BY TYPE, MODEL AND SIZE AND THUS ESTABLISH MINIMUM QUALITIES WHICH SUBSTITUTES MUST MEET TO QUALIFY FOR REVIEW. WHERE ONLY ONE MAKE IS NAMED, IT SHALL BE PROVIDED. VERBAL REQUESTS OR APPROVALS SHALL NOT BE BINDING ON THE ARCHITECT, ENGINEER OR OWNER. SHOULD THE CONTRACTOR PROPOSE TO FURNISH MATERIALS AND EQUIPMENT OTHER THAN THOSE SPECIFIED, HE SHALL SUBMIT A WRITTEN REQUEST FOR SUBSTITUTIONS TO THE ARCHITECT AT THE BID OPENING. INDICATE ANY ADDITIONS OR DEDUCTIONS TO THE CONTRACT PRICE ON THE BID FORM.
- EQUIPMENT AND MATERIALS USED ON THIS PROJECT SHALL BE NEW AND U.L. LABELED FOR THE APPLICATION.
- KEEP ONE COMPLETE SET OF THE CONTRACT WORKING DRAWINGS ON THE PROJECT SITE ON WHICH HE SHALL RECORD ANY DEVIATIONS OR CHANGES FROM SUCH CONTRACT DRAWINGS MADE DURING CONSTRUCTION. AFTER THE PROJECT IS COMPLETED, RECORD SETS OF DRAWINGS SHALL BE DELIVERED TO THE ARCHITECT IN GOOD CONDITION, AS A PERMANENT RECORD OF THE INSTALLATION AS CONSTRUCTED.
- PROVIDE NAMEPLATES ON PANELBOARDS, DISTRIBUTION EQUIPMENT, SAFETY SWITCHES, MOTOR STARTERS, JUNCTION BOXES, AND CONTROL DEVICES. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, LETTERING SHALL INCLUDE THE NAME OR DESIGNATION OF EQUIPMENT, HORSEPOWER, VOLTAGE RATING AND SERVICE DESIGNATION. NAMEPLATES SHALL BE LAMINATED PHENOLIC WITH A BLACK SURFACE AND WHITE CORE. IDENTIFICATION WITH A DYMO TYPE INSTRUMENT IS NOT PERMISSIBLE. THE INSIDE COVER OF ALL RECEPTACLE OUTLET PLATES SHALL BE PERMANENTLY MARKED TO INDICATE THE PANEL AND CIRCUIT NUMBER OF THE OUTLET. THE INSIDE COVER OF ALL BLANK PLATES FOR JUNCTION BOXES INSTALLED SHALL BE PERMANENTLY MARKED TO INDICATE THE SYSTEM.
- AFTER INSTALLATION, TEST FOR GROUNDS, SHORT CIRCUITS AND PROPER FUNCTION OF EACH SYSTEM AND RELATED WIRING. FAULTS IN THE INSTALLATION SHALL BE CORRECTED.
- INSULATION RESISTANCE TESTS SHALL BE MADE ON THE ELECTRICAL SYSTEM WITH AN APPROVED MEGOHMMETER.
- A GROUND CONTINUITY TEST SHALL BE MADE ON THE ENTIRE GROUNDING SYSTEM FROM THE SERVICE TO EVERY OUTLET.
- AFTER ALL TESTS AND ADJUSTMENTS HAVE BEEN COMPLETED, CLEAN ALL EQUIPMENT LEAVING EVERYTHING IN WORKING ORDER AT THE COMPLETION OF THIS WORK. CLEAN LIGHTING FIXTURES, OUTLET BOX PLATES, PANEL AND CABINET INTERIORS AND EXTERIORS, ETC., OF DIRT, DUST, DEBRIS AND PAINT, AFTER ALL OTHER TRADES HAVE COMPLETED THEIR WORK.
- PROVIDE A TEMPORARY ELECTRICAL SERVICE ADEQUATE IN SIZE FOR HEATING. FOR THE USE OF ALL TRADES AND FOR THE LIGHTING OF EACH ROOM DURING CONSTRUCTION, TEMPORARY WIRING SHALL BE TO OSHA REQUIREMENTS. TEMPORARY SERVICE CAN BE EXTENDED FROM THE OWNER'S EXISTING POWER DISTRIBUTION SYSTEM. THE OWNER MUST APPROVE OF THE POINT OF SUPPLY, THE METHOD OF EXTENSION AND THE ROUTING OF NECESSARY TEMPORARY FEEDERS. PROVIDE A TEMPORARY TELEPHONE SERVICE FOR THE USE OF ALL TRADES DURING CONSTRUCTION.
- DO ALL CUTTING AND PATCHING IN EXISTING CONSTRUCTION AS NECESSARY FOR INSTALLATION OF THIS WORK. HAVE CUTTING DONE BY SKILLED MECHANICS AS CAREFULLY AS POSSIBLE AND WITH AS LITTLE DAMAGE AS POSSIBLE.
- DETERMINE IF ANY STRUCTURAL ELEMENTS SUCH AS REBAR OR POST TENSION CABLES EXIST IN FLOORS, WALLS OR ROOFS BY INSPECTION COORDINATED WITH THE LANDLORDS TENANT COORDINATOR OR STRUCTURAL ENGINEER AND BY USE OF X-RAY WHEN REQUIRED PRIOR TO ANY CUTTING OR CORE DRILLING. IF SUCH ELEMENTS EXIST, REPORT THIS IMMEDIATELY TO THE ARCHITECT AND LANDLORD'S TENANT COORDINATOR FOR RESOLUTION PRIOR TO CUTTING OR DRILLING.
- OPERATION PRIOR TO COMPLETION: WHEN ANY MECHANICAL OR ELECTRICAL EQUIPMENT IS OPERATED DURING CONSTRUCTION THE WARRANTY PERIOD SHALL NOT COMMENCE UNTIL THE EQUIPMENT IS OPERATED BY THE OWNER. PROPERLY CLEAN AND ADJUST THE EQUIPMENT AND COMPLETE ALL PUNCH LIST ITEMS BEFORE FINAL ACCEPTANCE BY THE OWNER. THE DATE OF ACCEPTANCE AND THE START OF THE WARRANTY MAY NOT BE THE SAME DATE. ALL INCANDESCENT LAMPS OPERATED FOR MORE THAN 50 HOURS DURING CONSTRUCTION SHALL BE REPLACED WITH NEW LAMPS PRIOR TO OWNER ACCEPTANCE.
- FIRE AND SMOKE INTEGRITY: SEAL BUILDING OPENINGS, THROUGHOUT, CAUSED BY INSTALLATION OF ALL TYPES OF ELECTRICAL EQUIPMENT (CONDUIT, CABLE/WIRE, PANELS ETC.) WHERE OPENINGS ARE IN FLOORS OR FIRE RATED WALLS. CONFIGURE THE PENETRATION IN CONFORMANCE WITH UL LISTED CRITERIA. INSURE FIRE AND SMOKE BARRIER INTEGRITY THROUGHOUT. WHERE INTUMESCENT SEALER/CAULKING IS REQUIRED USE MATERIALS OF 3M OR DOW CORNING.

- BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOTWITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN.

SECTION 16050 - BASIC MATERIALS AND METHODS

- ALL BOXES SHALL BE RIGIDLY SUPPORTED FROM THE BUILDING STRUCTURE INDEPENDENT OF THE CONDUIT SYSTEM. ALL BOXES SHALL BE 4" SQUARE BOXES MINIMUM WITH RAISED COVERS SUITABLE FOR THE WALL MATERIAL.
- CONDUITS SHALL BE:**
 - RIGID OR INTERMEDIATE GRADE GALVANIZED STEEL CONDUIT IN WET LOCATIONS, CONCRETE, EXTERIOR MASONRY WALLS AND EXPOSED LOCATIONS SUBJECT TO DAMAGE.
 - GALVANIZED STEEL ELECTRICAL METALLIC TUBING IN DRY LOCATIONS, INTERIOR PARTITIONS AND CEILING SPACE.
 - FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO TRANSFORMERS, MOTORS AND EQUIPMENT. LIQUID-TIGHT FLEXIBLE METAL CONDUIT IN WET AND DAMP LOCATIONS.
 - FLEXIBLE METAL TUBING FROM OUTLET BOX TO RECESSED LIGHT FIXTURES IN SUSPENDED CEILINGS, SIX FOOT MAXIMUM LENGTH.
 - SCHEDULE 40 PVC RIGID NON-METALLIC CONDUIT BURIED BELOW GROUND FLOOR SLAB AND FOR EXTERIOR UNDERGROUND.
 - CONDUIT CONNECTIONS TO UNDERCABINET TYPE LIGHTING FIXTURES SHALL BE 3/8" FLEXIBLE METAL CONDUIT OR MC TYPE CABLE FROM THE WALL OUTLET BOX TO THE FIXTURE HOUSING.
 - RACEWAYS SHALL BE SIZED IN ACCORDANCE WITH N.E.C. WIRING TABLES OR AS NOTED ON DRAWINGS, WHICHEVER IS LARGER. MINIMUM CONDUIT SIZE SHALL BE ONE-HALF INCH.
 - CONDUIT FITTINGS FOR RIGID CONDUIT SHALL BE THREADED CAST FERROUS ALLOY WITH GASKETS AND COVERS WHERE REQUIRED. CONDUIT FITTINGS FOR EMT TO BE SET SCREW TYPE. LOCKNUTS SHALL BE OF THE BONDING TYPE WHICH BITE INTO THE METAL OF THE BOX. BUSHINGS SHALL BE OF THE INSULATING TYPE.
 - METAL CONDUITS SHALL BE COUPLED AND SECURED TO ALL BOXES IN A MANNER THAT PROVIDES AN ELECTRICALLY CONTINUOUS GROUND PATH FROM POINT OF SERVICE TO ALL OUTLETS.
 - RIGID CONDUITS SHALL BE TERMINATED IN SHEET STEEL WITH DOUBLE LOCKNUTS AND AN INSULATING BUSHING. EMPTY CONDUITS STUBBED SHALL BE THREADED AND CAPPED.
 - NYLON PULL LINE SHALL BE INSTALLED IN ALL EMPTY CONDUITS.
 - CONDUIT ROUTING INDICATED ON THE DRAWINGS IS DIAGRAMMATIC ONLY AND IS NOT NECESSARILY THE INTENDED ACTUAL CONDUIT RUN. CONTRACTOR SHALL CHECK AND BE RESPONSIBLE FOR THE ACTUAL INSTALLATION WITH REGARD TO AVAILABLE SPACE AND SHALL COOPERATE WITH OTHER TRADES.
 - ALL CONDUITS SHALL BE SIZED AND INSTALLED SO THAT THE REQUIRED NUMBER OF CONDUCTORS MAY BE PULLED IN WITHOUT INJURY OR STRAIN.
 - CONDUIT RUNS SHALL BE LOCATED TO AVOID EQUIPMENT AND ACCESS TO EQUIPMENT OF OTHER TRADES.
 - CONDUITS SHALL BE CONTINUOUS AND SECURED TO ALL BOXES IN SUCH A MANNER THAT EACH CONDUIT SYSTEM SHALL BE ELECTRICALLY CONTINUOUS FROM THE POINT OF SERVICE TO ALL OUTLET BOXES. RUN CONDUITS CONCEALED UNLESS OTHERWISE INDICATED. WHERE IT IS NOT POSSIBLE TO INSTALL CONCEALED CONDUIT, PERMISSION MUST BE OBTAINED FROM THE ARCHITECT TO RUN SURFACE WIREMOLD OR CONDUIT. THE ROUTING AND ELEVATION OF SUCH SURFACE MOUNTED RACEWAYS MUST BE COORDINATED WITH THE ARCHITECT BEFORE INSTALLATION. EXPOSED RACEWAYS SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES TO STRUCTURAL MEMBERS AND SHALL BE PAINTED TO MATCH ADJACENT FINISHES.
 - CONDUIT SUPPORTS SHALL BE ATTACHED TO BUILDING STRUCTURAL MEMBERS ONLY, AND NOT TO ANY BUILDING SUB-SYSTEMS SUCH AS SUSPENDED CEILINGS, MECHANICAL DUCTS OR PIPES.
 - ENDS OF EACH CONDUIT SHALL BE CAPPED WITH AN APPROVED CAP OR DISC TO PREVENT THE ENTRANCE OF FOREIGN MATERIALS DURING CONSTRUCTION.
 - CONDUITS THAT PASS THROUGH FIRE OR SMOKE-RATED WALLS, CEILINGS, OR DECKS SHALL BE INSTALLED SO AS TO MAINTAIN THE FIRE OR SMOKE RATING.
 - EXPANSION FITTINGS SHALL BE INSTALLED AT ALL POINTS WHERE CONDUITS CROSS BUILDING EXPANSION JOINTS.
 - CONDUIT ENTRIES INTO BUILDING SHALL BE MADE WATERTIGHT. ALL UNDERGROUND JOINTS SHALL BE SEALED.
 - EXTERIOR UNDERGROUND CONDUITS SHALL BE INSTALLED 36 INCHES MINIMUM BELOW FINISHED GRADE.
 - BUSHINGS, LOCKNUTS AND CONNECTORS:**
 - WHERE RIGID OR INTERMEDIATE METAL CONDUIT ENTERS A BOX, SECURE THE CONDUIT TO THE BOX WITH A LOCKNUT ON THE OUTSIDE AND INSIDE. PROVIDE BUSHINGS FOR CONDUIT TERMINALS AT BOXES. FOR CONDUCTORS THRU #8 AWG BUSHINGS SHALL BE GALVANIZED, NON-INSULATING TYPE, AND FOR CONDUCTORS LARGER THAN #8 AWG BUSHINGS ARE TO BE INSULATING TYPE. IF THE CONDUIT FITTING PROVIDES EQUIVALENT PROTECTION OF THE CONDUCTORS, THE BUSHING MAY BE ELIMINATED.
 - FEEDER AND BRANCH CIRCUIT CONDUCTORS:**
 - FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE U.L. LABELED, 98% CONDUCTIVITY COPPER-STAMPED AT 2 FT. INTERVALS WITH CONDUCTOR SIZE AND INSULATION TYPE.
 - FEEDER CIRCUIT CONDUCTORS SHALL BE TYPE "XHHW-2" OR "THHN" 600 VOLT, STRANDED COPPER, 90 DEGREE C RATED.
 - BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE "THWN-2" 600 VOLT, 90°C COPPER, WIRE SIZES #8 AWG AND LARGER SHALL BE STRANDED. OR BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC THHN-2 600 VOLT 90 DEGREE C COPPER WITH INSULATED GREEN GROUND WIRE, ENCLOSED IN AN ALUMINUM OR GALVANIZED STEEL ARMOR CONDUIT THAT IS APPROVED FOR EXPOSED OR CONCEALED APPLICATIONS.
 - MINIMUM WIRE SIZE SHALL BE #12 AWG OR LARGER AS REQUIRED TO LIMIT VOLTAGE DROP AT FURTHEST OUTLET TO 3%.
 - WIRE AND CABLE INSTALLATION:**
 - PULL WIRE AND CABLES INTO CONDUIT USING IDEAL INDUSTRIES "YELLOW 190", OR EQUIVALENT.
 - COLOR CODE WIRE AND CABLE FOR CIRCUITS AS CALLED FOR IN THE NATIONAL ELECTRICAL CODE. COLOR CODING OF FEEDERS SHALL BE BY MEANS OF COLORED TAPE AT TERMINALS.
 - INDIVIDUAL BRANCH CIRCUITS ARE SHOWN ON THE DRAWINGS FOR CLARITY. LIGHTING AND RECEPTACLE CIRCUITS MAY BE GROUPED FOR HOMERUNS, SO LONG AS CONDUCTOR AMPACITIES ARE DERATED PER NEC REQUIREMENTS. NEUTRAL CONDUCTORS IN RECEPTACLE CIRCUITS SERVING DATA EQUIPMENT LOADS SHALL NOT BE SHARED.
 - WIRING FROM LEGALLY REQUIRED EMERGENCY AND STANDBY POWER GENERATION SOURCES SHALL BE KEPT INDEPENDENT OF EACH OTHER AND INDEPENDENT OF ALL OTHER BRANCH CIRCUIT WIRING, AND SHALL NOT ENTER THE SAME RACEWAY, CABLE, BOX, OR CABINET WITH OTHER WIRING, UNLESS SPECIFICALLY ALLOWED BY THE NATIONAL ELECTRICAL CODE.

6. WIRING DEVICES:

- LOCAL LIGHT SWITCHES SHALL BE 20 AMPERE, 120/277 VOLTS, AC SPECIFICATION GRADE, WITH GROUNDING TERMINAL, AS MANUFACTURED BY HUBBELL, OR EQUIVALENT, #CS-122 SERIES.

- DUPLEX RECEPTACLES SHALL BE 20A, 125V, 2 POLE, 3 WIRE GROUNDING, GENERAL PURPOSE "SPECIFICATION GRADE" DUPLEX RECEPTACLES: HUBBELL #C9552 ISOLATED GROUND DUPLEX RECEPTACLES: HUBBELL #GFR532 ORANGE, HOSPITAL GRADE DUPLEX RECEPTACLES: HUBBELL #R300H, TAMPER RESISTANT "SAFETY TYPE" DUPLEX RECEPTACLES: HUBBELL #HBL8300G.

- DUPLEX RECEPTACLES WHERE INDICATED ON THE DRAWINGS OR WHERE REQUIRED BY CODE, SHALL HAVE AN INTEGRAL GROUND FAULT PROTECTOR AND SHALL BE 20A, 125V, 2 POLE, 3 WIRE GROUNDING: HUBBELL #GFR532 GROUND FAULT RECEPTACLES SHALL NOT BE THRU-WIRED. PROVIDE INDIVIDUAL DUPLEX RECEPTACLES AS SHOWN ON THE DRAWINGS. HOSPITAL GRADE GROUND FAULT DUPLEX RECEPTACLES: HUBBELL #HGF8300.

- ALL SWITCHES, DIMMERS, AND RECEPTACLES SHALL BE WHITE UNLESS OTHERWISE INDICATED WITHIN THESE SPECIFICATIONS. VERIFY COLOR WITH THE ARCHITECT PRIOR TO PROCUREMENT OF THE DEVICES. ALL COVERPLATES SHALL BE SMOOTH HIGH IMPACT THERMOPLASTIC FINISH WITH COLOR TO MATCH THE DEVICES. EMERGENCY RECEPTACLES AND SWITCHES SHALL BE RED, WITH COVERPLATES TO MATCH THE FINISH OF THE OTHER COVERPLATES PROVIDED IN THE AREA. IN UNFINISHED AREAS, USE CADMIUM PLATED, ROUND CORNER, STEEL COVERPLATES FOR SURFACE MOUNTED OUTLET BOXES. BOTH THE WIRING DEVICES AND THE COVERPLATES SHALL BE BY THE SAME MANUFACTURER.

7. WIRING DEVICE INSTALLATION:

- ADJACENT DEVICES SHALL BE MOUNTED IN GANGED BOXES WITH COMMON COVER PLATES.
- VERIFY MOUNTING HEIGHTS AND LOCATIONS WITH THE ARCHITECT BEFORE ROUGH-IN. REFER TO DETAILS AND INTERIOR WALL ELEVATIONS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- OUTLETS SHALL NOT BE INSTALLED BACK TO BACK.
- ALL RECEPTACLES SHALL BE MOUNTED WITH THE GROUND OPENING ABOVE THE PHASE AND NEUTRAL OPENINGS.
- ALL DEVICES SHALL BE SECURED WITH MORE THAN A SINGLE SCREW.

8. DISCONNECT SWITCHES:

- PROVIDE MOTOR DRIVEN EQUIPMENT WITH PROPERLY SIZED AND RATED DISCONNECT SWITCHES TO COMPLY WITH N.E.C. REQUIREMENTS, WHETHER OR NOT INDICATED ON THE DRAWINGS.
- DISCONNECT SWITCHES FOR THREE-PHASE MOTORS AND SINGLE-PHASE MOTORS GREATER THAN 1/2 HORSEPOWER SHALL BE HEAVY-DUTY, SINGLE-THROW SAFETY SWITCHES. SWITCHES SHALL BE FUSIBLE OR NON-FUSIBLE, AS INDICATED, WITH AMPERAGE, POLES AND NEUTRAL, AS SHOWN ON DRAWINGS. PROVIDE SWITCHES WITH QUICK-MAKE, QUICK-BREAK OPERATING MECHANISM, FULL COVER INTERLOCK AND INDICATOR HANDLE, PROVISIONS FOR PADLOCKING OFF, U.L. CLASS "R" REJECTION TYPE FUSE CLIPS, N.E.M.A. 1 ENCLOSURE FOR DRY LOCATIONS AND N.E.M.A. 3R ENCLOSURE FOR DAMP OR WET LOCATIONS.
- DISCONNECT SWITCHES SHALL BE MANUFACTURED BY SQUARE D OR BY APPROVED ALTERNATE MANUFACTURERS, GENERAL ELECTRIC, WESTINGHOUSE OR SIEMENS. SHALL BE WESTINGHOUSE TYPE "MS" SERIES OR EQUIVALENT, WITH PILOT

10. HANGERS AND SUPPORTS:

- SUPPORT CONDUIT RUNS DIRECTLY ADJACENT TO BUILDING CONSTRUCTION WITH SUITABLE ONE AND TWO-HOLE STRAPS AND/OR CLAMP-TYPE HANGERS. SUPPORT CONDUIT RUNS NOT ADJACENT TO BUILDING CONSTRUCTION WITH SUITABLE, ADJUSTABLE HANGERS. DO NOT USE PERFORATED STRAP-TYPE HANGER, WIRE TIES OR PLUMBERS STRAP.
- PROVIDE ANGLE IRON FRAMES AND SUPPORTS FOR JUNCTION BOXES AND CABINETS TO PREVENT STRAIN ON ENTERING CONDUITS. GROUP EXPOSED CONDUITS TOGETHER. CONDUIT PENETRATIONS INCLELINGS SHALL BE TIGHT TO THE CONDUIT AND SEALED.
- SUPPORT RIGID STEEL, IMC, AND EMT RACEWAYS AT MAX. TEN FEET INTERVALS AND WITHIN THREE FEET OF OUTLET AND JUNCTION BOXES, CABINETS OR FITTINGS. SUPPORT WITHIN 12" OF EACH CHANGE IN DIRECTION, USE ONE-HOLE MALLEABLE IRON CLAMPS. SUPPORT MULTIPLE RUNS ON GALVANIZED UNISTRUT.
- DO NOT SUPPORT ELECTRICAL RACEWAYS, BOXES, FIXTURES AND EQUIPMENT FROM CEILING SUPPORT SYSTEMS, MECHANICAL SYSTEM SUPPORTS, OR MECHANICAL SYSTEMS.

- ALL EQUIPMENT MOUNTED ON EQUIPMENT ROOM WALLS SHALL BE ATTACHED TO 3/4" PLYWOOD BOARDS, PAINTED WITH FIRE RESISTANT PAINT.

SECTION 16400