# PERMIT SET

6/29/22



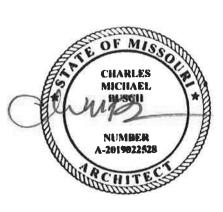
OWNER	ARCHITECT	CIVIL ENGINEER	STRUCTURAL ENGINEER	MEP ENGINEER	LANDSCAPE ARCHITECT
WHATABURGER	ms consultants, inc				
300 CONCORD PLAZA DRIVE	2221 SCHROCK RD.				
SAN ANTONIO, TEXAS 78216	COLUMBUS, OH 43229				



2221 Schrock Road Columbus, Ohio 43229 p 614.898.7100 f 614.898.7570 www.msconsultants.com



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SPECIFICALLY RESERVED.



ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528 EXP. DATE 12/31/2023

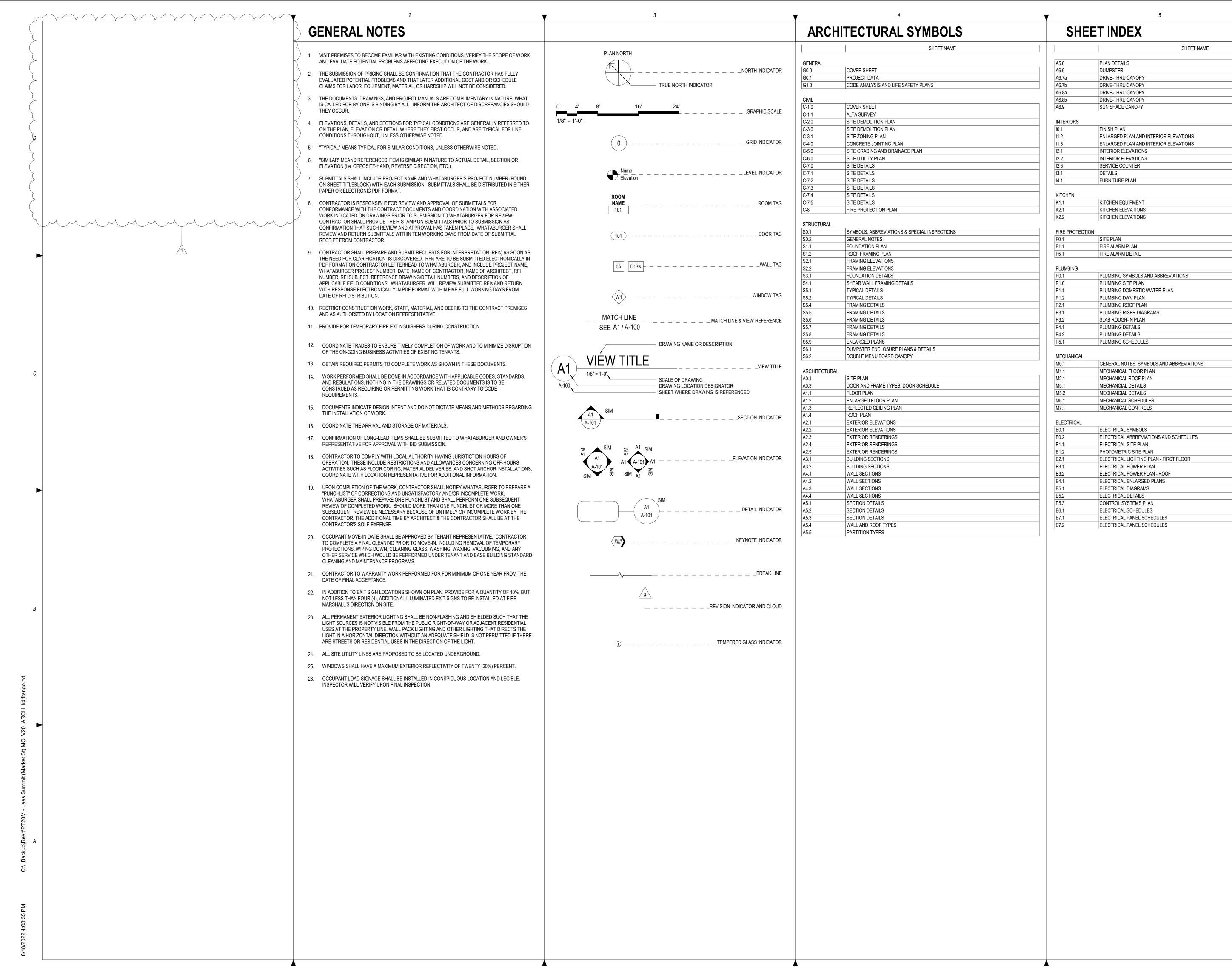
	REV	DESCRIPTION	DATE
	1	DEVELOP. SERVICES	8/18/22

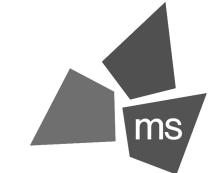
Project No.: 40497-21 Client Project No.:

Drawing Title:

**COVER SHEET** 

ate:	06.29.22	Phase:	PERMIT SET
esigned:	WB	Drawing No.:	
	0) #		





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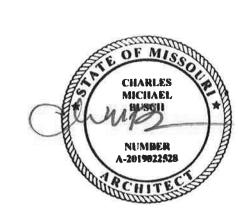
Columbus, Ohio 43229 p 614.898.7100 f 614.898.7570 www.msconsultants.com

E: PT20M **1W 150 AND YWOOD ST** 

NEQ HW HOLLYW



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ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528 EXP. DATE 12/31/2023

	REV	DESCRIPTION	DATE
	1	DEVELOP. SERVICES	8/18/22

Project No.: 40497-21

Client Project No.:

Drawing Title:

PROJECT DATA

Date: 06.29.22 Phase: PERMIT SET

Designed: WB Drawing No.:

Drawn: BKN
Checked: AMF

G0.1

JURISDICTION	CITY	COUNTY		STATE
CODE ENFORCEMENT	CITY OF LEE'S SUMMIT	JACKSON		MISSOURI
ZONING	PI - PLANNED INDUSTRIAL			USA
CODE	TITLE	EDITION	AMENDMENTS	REMARK
BUILDING	INTERNATIONAL BUILDING CODE	2018	-	
FIRE	INTERNATIONAL FIRE CODE	2018	-	
MECHANICAL	INTERNATIONAL MECHANICAL CODE	2018	-	
ELECTRICAL	NATIONAL ELECTRICAL CODE	2017	-	
PLUMBING	INTERNATIONAL PLUMBING CODE	2018	-	
LANDSCAPE	LOCAL LANDSCAPE ORDINANCE	YES	-	
ENERGY	NONE		-	
SIGNAGE	LOCAL SIGNAGE ORDINANCE	YES	-	
ADA	ICC/ANSI A117.1	2009	-	
HEALTH	LOCAL HEALTH REQUIREMENTS	YES	-	

USE AND OCCUPANCY CLASSIFICATION				IBC 2012	SECTION 302
	USE GROUP	CONSTRUCTION TYPE	FIRE PROTECTION	MIXED USE	ADEA (CE)
	303.3	TABLE 601	903.2.1.2	SECTION 508.3	AREA (SF)
CLASSIFICATION	ASSEMBLY GROUP A-2	VB	SPRINKLERED	MAJOR OCCUPANCY A-2 NON SEPARATED OCC.	.3 /4h
ACTUAL BUILDING AREA					3,746
MIXED USE	ASSEMBLY, STORAGE	E, BUSINESS			

GENERAL BUILDING SUMMARY			IBC 2015	TABLE 504.3
BUILDING HEIGHT LIMITATIONS	STORIES	BUILDING AREA LIMITATIONS (PER FL	OOR)	AREA (SF)
ALLOWABLE HEIGHT LIMITATION	1 STORY, 40'	ALLOWABLE AREA LIMITATION		6,000
ALLOWABLE HEIGHT INCREASE (SPRINKLER SYS.)	1 STORY, 20'	ALLOWABLE AREA		300%
OTHER	HER N/A ALLOWABLE AREA INCREASE (SEPA		ATION)	N/A
TOTAL ALLOWABLE HEIGHT	60'	TOTAL ALLOWABLE AREA		24,000
ACTUAL HEIGHT (IN STORIES)	1 STORY, 21'-0"	ACTUAL BUILDING AREA		3,746

FIRE RESISTANCE RATINGS	AUTOMATIC SPRIN	KLER SYSTEM	IBC 2015	TABLE 601	
BUILDING ELEMENT	RATING (HOURS)	DESIGN NO.	REMA	I RKS	
STRUCTURAL FRAME	0		TABL	E 601	
BEARING WALLS: EXTERIOR	0		TABL	E 601	
BEARING WALLS: INTERIOR	0		TABL	E 601	
NONBEARING WALLS: EXTERIOR	0		TABL	TABLE 602	
NONBEARING WALLS: INTERIOR	0		TABL	TABLE 601	
FLOOR CONSTRUCTION	0			1	
ROOF CONSTRUCTION	0				
CORRIDORS	0		TABLE	1018.1	
OPEN EGRESS STAIRS	N/A				

FIRE RESISTANCE RAITINGS FO	IBC 2015	TABLE 602		
MINIMUM FIRE RESISTANCE RATING	MINIMUM FIRE SEPARATION	ACTUAL FIR	E SEPARATION	
0	X≥30	X≥	30	
OCCUPANT LOAD			IBC 2015	TABLE 1004.1.2

OCCUPANCY	AREA (SF)	FACTOR	LOAD (OCCUPANTS)	REMARK	(S
STORAGE	708	300 SF	3		
BUSINESS	59	100 SF	1		
COMMERCIAL KITCHEN	886	200 SF	5		
FLEX SEATING	-	ACTUAL	35		
FIXED SEATING	-	24" PER PERSON	41	984 LINEAR INCHES OF	SEATING
WAITING	224	15 SF	15	224 SF	
RESTROOMS	202	0 NET			
TOTAL	2140		100		

MEANS OF EGRESS			IBC 2015	CHAPTER 10
EGRESS WIDTH	FACTOR (INCHES PER OCCUPANT)	REQUIRED (INCHES)	PROVIDED (INCHES)	REMARKS
DOORS, RAMPS, COORIDORS	0.2	20	150	1005.3.2
EXIT ACCESS REQUIREMENTS		MINIMUM UNITS	PROVIDED UNITS	REMARKS
MINIMUM NUMBER OF EXITS		2	3	1006.3.1
MINIMUM CORRIDOR WIDTH (INCHES)		44	44	1020.2
STORE MINIMUM EXIT SEPARATION (F	EET)	32	41	1007.1.1
MAXIMUM LENGTH OF EXIT ACCESS TRAVEL (FEET)		250	<250	1017.2
MAXIMUM DEAD ENDS: (FEET)		20	<20	1029.9.5
MAXIMUM COMMON PATH OF EGRESS	TRAVEL (FEET) IN B OCCUPANCY	100	<75	1006.2.1
MAXIMUM COMMON PATH OF EGRESS	TRAVEL (FEET) IN A OCCUPANCY	30	<30	1029.8

INTERIOR FINISHES	IBC 2015	TABLE 803.1		
MAXIMUM FLAME SPREAD CLA	SS WALLS/CEILINGS	GS REMARKS		
EXIT PASSAGEWAYS	В	TABLE 803.11		
COORIDORS B TABLE 803.11				
ROOMS AND ENCLOSED SPACES	С	C TABLE 803.11		

	PLUMBING FIXTURE COUNT				IPC 20	)15	TABLE 403.1
	TOTAL STORE OCCUPANT LOAD	100	MEN	50	WOMEN	50	REMARKS
	FIXTURE TYPE	FACTOR PER OCCUPANT	REQUIRED	PROVIDED	REQUIRED	PROVIDED	
	WATER CLOSET	75	1	1	1	2	
	URINALS	50% MAY BE URINAL	N/A	N/A	N/A	N/A	
	LAVATORIES	200	1	1	1	1	
	UNISEX TOILET (REQUIRED IF 6 OR MORE WC ARE REQUIRED)	N/A	0		0		
٦	SERVICE SINKS	1 REQUIRED			1		
	DRINKING FOUNTAINS	EXEMPT	SECTION 410.4				

- 1. PERFORM WORK IN COMPLIANCE WITH ALL APPLICABLE ACCESSIBILITY, FEDERAL, STATE AND LOCAL CODES AND ORDINANCES. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR CLARIFICATION.
- NOT USED.
- COORDINATE ALL TRADES PRIOR TO CONSTRUCTION TO ENSURE PROPER SEQUENCING OF THE WORK.

  VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING, FABRICATION AND CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR
- CLARIFICATION. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT OF ANY DIMENSIONAL DISCREPANCIES FOR CLARIFICATION.
- DIMENSIONS UNLESS NOTED OTHERWISE:
- TO FACE OF WOOD STUD, CONCRETE OR MASONRY WORK; TO CENTERLINE OF COLUMNS OR OTHER GRID POINTS TO CENTERLINE FRAMES WINDOW AND DOOR OPENINGS; TO FINISH FACES OF CLEAR WIDTHS.
- VERIFY SIZE, CHARACTERISTICS, AND REQUIRED CLEARANCES OF ALL EQUIPMENT TO BE FURNISHED WITH MANUFACTURERS OR SUPPLIERS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR CLARIFICATION.

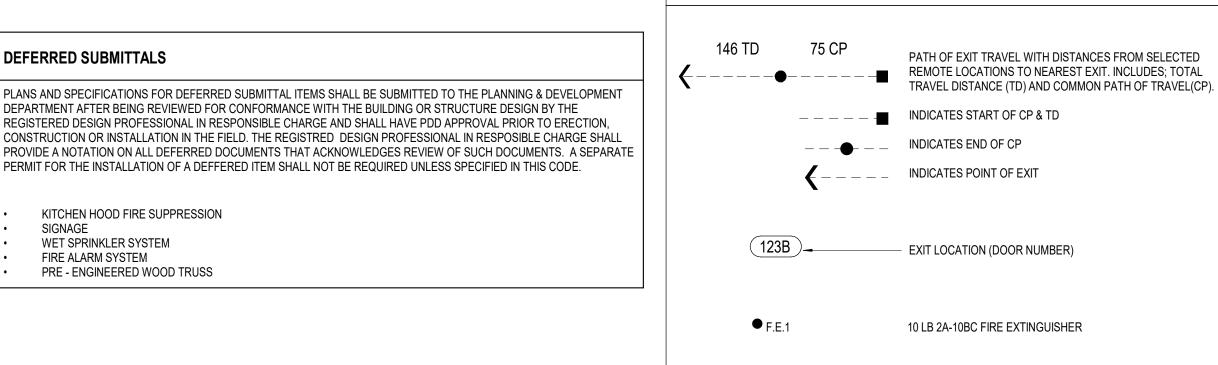
CANOPY ABOVE

(32) (33) (34) (35)

- PROVIDE BLOCKING AND GROUNDS AS SPECIFIED FOR BUILT-IN AND SURFACE MOUNTED ITEMS PRIOR TO APPLYING WALL-SURFACING MATERIALS. LOCATIONS SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES.
- CONCEAL ALL PLUMBING, DUCTWORK, CONDUIT, WIRE, AND SIMILAR ITEMS UNLESS NOTED OTHERWISE.

# LIFE SAFETY PLAN LEGEND

• F.E.2





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NEQ



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ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528 EXP. DATE 12/31/2023

REV	DESCRIPTION	DATE
	REV	REV DESCRIPTION

Project No.: 40497-21

CODE ANALYSIS AND LIFE

Phase: PERMIT SET Date: 06.29.22

Drawing No.: G1.0 Checked: AMF



WAITING AREA: 224 SF FIRE RISER: 25 SF ASSEMBLY WITH FIXED SEATS: 1,140 SF STORAGE: 708 SF KITCHENS, COMMERCIAL: 885 SF

10 LB K-GUARD FIRE EXTINGUISHER

EXIT SIGN

BUSINESS: 59 SF RESTROOMS: 202 SF r-----\_\_\_\_\_\_ CANOPY ABOVE AREA #1

COOLER TD B: 103'\ \_ WÓMEN STORAGE

CANOPY ABOVE

100A

TD A: 45'

DEFERRED SUBMITTALS

KITCHEN HOOD FIRE SUPPRESSION

PRE - ENGINEERED WOOD TRUSS

WET SPRINKLER SYSTEM

FIRE ALARM SYSTEM

Client Project No.: Drawing Title:

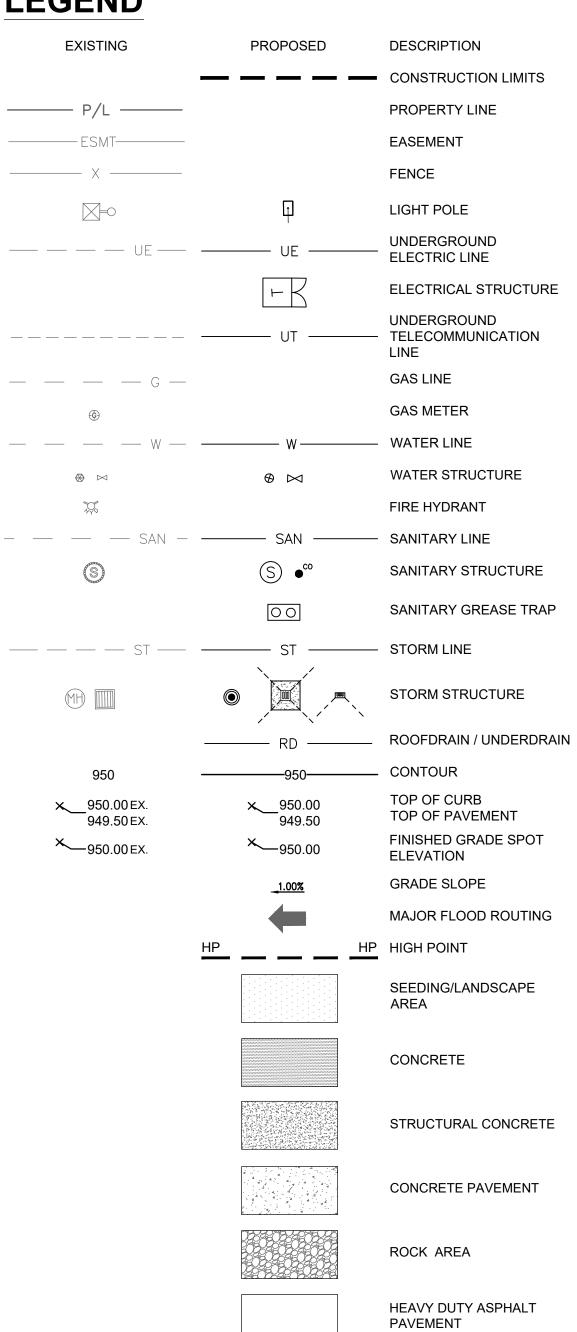
SAFETY PLANS

Designed: WB Drawn: BKN

# WHATABURGER

# NEQ HIGHWAY 150 AND SW HOLLYWOOD DRIVE LEE'S SUMMIT, MO 64802 JACKSON COUNTY PROTOTYPE 20-M FINAL DEVELOPMENT PLAN

## **LEGEND**





**VICINITY MAP** 

# **OWNER**

WHATABURGER 300 CONCORD PLAZA DR. SAN ANTONIO, TX 78216 PHONE: (210) 476-6842 **CONTACT: ALYSSIA LESTER** EMAIL: alester@wbhq.com

## **ENGINEER**

ms consultants, inc. 2221 SCHROCK ROAD COLUMBUS, OHIO 43229 PHONE: (614) 898-7100 CONTACT: IAN AULTMAN EMAIL: iaultman@msconsultants.com

## **BENCHMARK**

TBM 1: 1/2 IRON NORTHING: 2822704.4825 EASTING: 978325.3390 **ELEVATION = 1022.68** 

TBM 2: 1/2 IRON NORTHING: 2822484.7625 EASTING: 978055.2866 **ELEVATION** = 1019.71

**BASIS OF BEARINGS:** MO (C) STATE PLANE COORDINATE SYSTEM SPC (2402 MO C)

## **SURVEYOR**

YOUNG - HOBBS AND ASSOCIATES 1202 CROSSLAND AVE. CLARKSVILLE, TN 37040 PHONE: (931) 645-2524 CONTACT: DAVE R. HOBBS

## **GEOTECHNICAL ENGINEER**

TERRACON CONSULTANTS, INC. 4765 WEST JUNCTION STREET SPRINGFIELD, MISSOURI 65802 PHONE: (417) 864-5100 CONTACT: TY G. ALEXANDER, P.E.

## **FLOOD INFORMATION**

THIS PROPERTY IS LOCATED WITHIN AN AREA HAVING ZONE DESIGNATIONS OF "X" BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, ON FLOOD INSURANCE RATE MAP NO. 29095C0532G, WITH A MAP EFFECTIVE DATE OF JANUARY 20TH, 2017, IN JACKSON COUNTY, STATE OF MISSOURI, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.

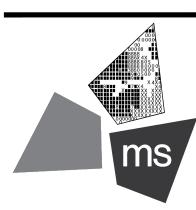
SHEET INDEX	
COVER SHEET	C-1.0
SURVEY	1 OF 1
SITE DEMOLITION PLAN	C-2.0
SITE DIMENSION PLAN	C-3.0
SITE ZONING PLAN	C-3.1
CONCRETE JOINTING PLAN	C-4.0
SITE GRADING PLAN	C-5.0
SITE DRAINAGE PLAN	C-5.1
STORM SEWER PLAN AND PROFILES	C-5.2
SITE UTILITY PLAN	C-6.0
SITE DETAILS	C-7.0
SITE DETAILS	C-7.1
SITE DETAILS	C-7.2
SITE DETAILS	C-7.3
DETENTION SYSTEM DETAILS	C-7.4
SITE DETAILS	C-7.5
SITE DETAILS	C-7.6
FIRE PROTECTION PLAN	C-8.0
SWPPP PHASE - PRE-CONSTRUCTION	C-9.0
SWPPP PHASE - DURING & POST CONSTRUCTION	C-9.1
SWPPP NOTES	C-10.0
SWPPP NOTES	C-10.1
SWPPP DETAILS	C-10.2
SWPPP DETAILS	C-10.3
LANDSCAPE PLAN	L-1.0
IRRIGATION PLAN	I-1.0

REVISION/DATE/DESCRIPTION

	00/10/21
60% SET	01/24/22
PDP APPLICATION TO CITY	02/24/22
RESPONSE TO CITY COMMENTS I	03/29/22
FINAL DEVELOPMENT SET	06/29/22
RESPONSE TO FDP COMMENTS	08/30/22

CONFIDENCE AND SHALL BE USE ONLY PURSUANT TO THE AGREE MENT WITH THE ARCHITECT WITHOUT PRIOR WRITTEN CONSEN LAW RIGHTS OF COPYRIGHT AND OTHERWISE ARE HEREBY SPECIFI





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PROJECT

PROPOSED PT20M BUILDING

NEQ HWY 150 & SW HOLLYWOOD DR. LEE'S SUMMIT, MO 64082

SHEET TITLE

**COVER SHEET** 



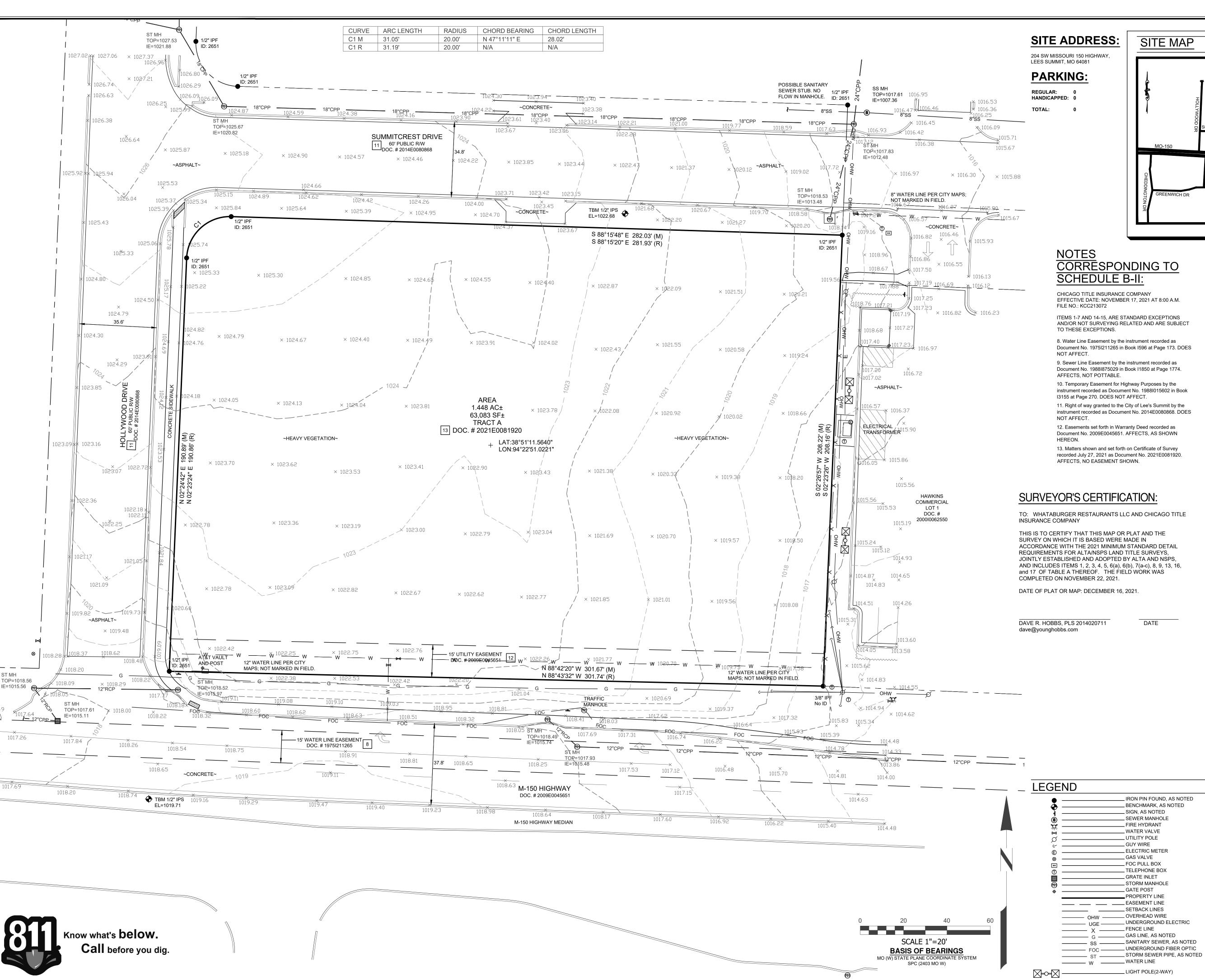
DRAWN BY: CHECKED BY: 40497-21 PROJECT NO:

DRAWING

Know what's **below**.

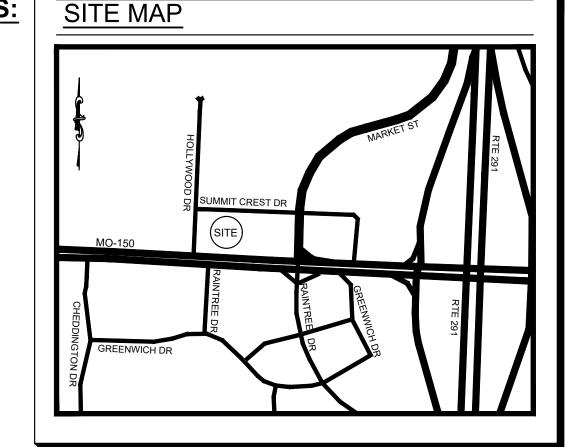
Call before you dig.

C-1.0



## SITE ADDRESS:

204 SW MISSOURI 150 HIGHWAY,



# **CORRESPONDING TO** SCHEDULE B-II:

CHICAGO TITLE INSURANCE COMPANY EFFECTIVE DATE: NOVEMBER 17, 2021 AT 8:00 A.M. FILE NO.: KCC213072

ITEMS 1-7 AND 14-15, ARE STANDARD EXCEPTIONS AND/OR NOT SURVEYING RELATED AND ARE SUBJECT TO THESE EXCEPTIONS.

8. Water Line Easement by the instrument recorded as Document No. 1975I211265 in Book I596 at Page 173. DOES

9. Sewer Line Easement by the instrument recorded as Document No. 1988I875029 in Book I1850 at Page 1774. AFFECTS, NOT POTTABLE.

10. Temporary Easement for Highway Purposes by the instrument recorded as Document No. 1988I015602 in Book I3155 at Page 270. DOES NOT AFFECT.

11. Right of way granted to the City of Lee's Summit by the instrument recorded as Document No. 2014E0080868. DOES

12. Easements set forth in Warranty Deed recorded as Document No. 2009E0045651. AFFECTS, AS SHOWN

13. Matters shown and set forth on Certificate of Survey recorded July 27, 2021 as Document No. 2021E0081920. AFFECTS, NO EASEMENT SHOWN.

## SURVEYOR'S CERTIFICATION:

TO: WHATABURGER RESTAURANTS LLC AND CHICAGO TITLE

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(a), 6(b), 7(a-c), 8, 9, 13, 16, and 17 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON NOVEMBER 22, 2021.

DATE OF PLAT OR MAP: DECEMBER 16, 2021.

DATE

RON PIN FOUND, AS NOTED

\_ BENCHMARK, AS NOTED

\_SIGN, AS NOTED \_ SEWER MANHOLE

\_ FIRE HYDRANT

\_ ELECTRIC METER

\_\_ WATER VALVE

\_\_ UTILITY POLE

\_ GUY WIRE

\_\_ GAS VALVE

\_ FOC PULL BOX

\_\_TELEPHONE BOX \_\_ GRATE INLET

\_ STORM MANHOLE

\_\_PROPERTY LINE

\_\_ UNDERGROUND ELECTRIC

\_\_ GATE POST

\_\_ FENCE LINE

## **TABLE A NOTES:**

ITEM 2: ADDRESS SHOWN IS PER TITLE COMMITMENT NO. KCC213072.

> THIS PROPERTY IS LOCATED WITHIN AN AREA HAVING ZONE DESIGNATIONS OF "X" BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, ON FLOOD INSURANCE RATE MAP NO.29095C0532G, WITH A MAP REVISED DATE OF JANUARY 20, 2017, IN JACKSON COUNTY, STATE OF MISSOURI, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.

CONTOURS WERE DERIVED FROM RANDOM SHOTS AND CROSS SECTIONS AND ARE SHOWN AT ONE FOOT INTERVALS. ELEVATIONS SHOWN HEREON ARE BASED ON GPS OBSERVATIONS TOGETHER WITH AN OPUS SOLUTION, DATED 11/22/2021 (NAVD88,GEOID18).

ITEM 6A: NO ZONING REPORT PROVIDED TO THIS SURVEYOR.

THERE WAS NO EVIDENCE OF RECENT EARTH MOVING, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.

THERE WAS NO EVIDENCE OF RECENT CHANGES IN STREET RIGHT OF WAY LINES. THERE WAS NO EVIDENCE OF RECENT OR STREET SIDEWALK CONSTRUCTION OR REPAIRS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.

#### LAND DESCRIPTION AS SURVEYED

PART OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 30, TOWNSHIP 47 NORTH, RANGE 31 WEST, OF THE FIFTH PRINCIPAL MERIDIAN, LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, DESCRIBED AS FOLLOWS:

BEING ALL OF TRACT "A", ON THE CERTIFICATE OF SURVEY, RECORDED JULY 27, 2021 AS DOCUMENT NO. 2021E0081920 IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, ALSO DESCRIBED AS FOLLOWS:

BEGINNING AT A 1/2" IRON PIN FOUND (ID: 2651) AT THE RIGHT OF WAY LINE INTERSECTION OF 150 HIGHWAY AND HOLLYWOOD DRIVE; THENCE WITH THE EAST RIGHT OF WAY LINE OF SAID HOLLYWOOD DRIVE N 02°24'42" E A DISTANCE OF 190.89 FEET TO A 1/2" IRON PIN FOUND (ID: 2651); THENCE WITH THE RIGHT OF WAY LINE INTERSECTION OF SAID HOLLYWOOD DRIVE AND SUMMITCREST DRIVE WITH A CURVE TURNING TO THE RIGHT WITH AN ARC LENGTH OF 31.05 FEET WITH A RADIUS OF 20.00 FEET WITH A CHORD BEARING OF N 47°11'11" E, WITH A CHORD LENGTH OF 28.02 FEET TO A 1/2" IRON PIN FOUND (ID: 2651); THENCE WITH THE SOUTH RIGHT OF WAY

LINE OF SAID SUMMITCREST DRIVE S 88°15'48" E A DISTANCE OF 282.03 FEET TO A 1/2" IRON PIN FOUND (ID: 2651); THENCE LEAVING SAID RIGHT OF WAY LINE WITH THE WEST LINE OF HAWKINS COMMERCIAL LOT 1, RECORDED IN DOCUMENT NO. 2000I0062550 S 02°26'57" W A DISTANCE OF 208.22 FEET TO A 3/8" IRON PIN FOUND IN THE NORTH RIGHT OF WAY LINE OF SAID 150 HIGHWAY; THENCE WITH SAID NORTH RIGHT OF WAY LINE N 88°42'20" W A DISTANCE OF 301.67 FEET TO THE POINT OF BEGINNING, HAVING AN AREA OF 63,083 SQUARE FEET, 1.448 ACRES, MORE OR LESS.

## **SURVEY NOTES:**

INFORMATION REGARDING THE PRESENCE, SIZE AND LOCATION OF UNDERGROUND UTILITIES IS SHOWN HEREON. THIS INFORMATION HAS BEEN SHOWN BASED ON THE LOCATION ABOVE GROUND APPURTENANCES, AVAILABLE DESIGN PLANS AND FLAGS AND PAINT PLACED BY THE UNDERGROUND PROTECTION SERVICE. NO CERTIFICATION IS MADE AS TO THE ACCURACY OF THOROUGHNESS OF THE INFORMATION CONCERNING UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON. (MISSOURI ONE CALL 1-800-DIG-RITE). THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A PRIVATE UTILITY LOCATE.

CONTACT PROPER AUTHORITIES BEFORE BUILDING NEAR UTILITY LINES, FOR EASEMENT WIDTH AND RESTRICTIONS. UTILITIES ARE APPROXIMATE AND SHOULD BE VERIFIED PRIOR TO ANY CONSTRUCTION.

UNLESS STATED OTHERWISE, ANY MONUMENT REFERRED TO HEREIN AS AN "IRON PIN SET" IS A SET 5/8" DIAMETER REBAR, WITH AN YELLOW PLASTIC CAP STAMPED "YOUNG-HOBBS"

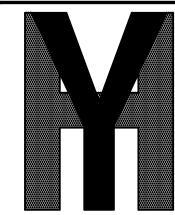
THE PERSON OR ENTITIES NAMED HERON. NO EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE INFORMATION SHOWN HEREON IS TO BE EXTENDED TO ANY PERSONS OR ENTITIES OTHER THAN THOSE SHOWN HEREON.

THERE WERE NO BUILDINGS ON THE SUBJECT PROPERTY AT THE TIME OF THE SURVEY.

THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF

LIST OF ENCROACHMENTS: NONE, THE OWNERSHIP OF CURB, UTILITIES, FENCES, AND/OR PERIMETER WALLS SHOWN HEREON ARE NOT KNOWN AND THUS ARE NOT LISTED AS ENCROACHMENTS. CURB, UTILITIES, FENCES, AND/OR PERIMETER WALLS ARE SHOWN IN THEIR RELATIVE POSITION TO THE BOUNDARY.

I DO HEREBY STATE THAT THIS IS A TRUE, COMPLETE AND CORRECT SURVEY OF THE DESCRIBED REAL PROPERTY SITUATED IN THE COUNTY OF GREENE, MISSOURI AND THAT THIS SURVEY WAS EXECUTED IN ACCORDANCE WITH THE CURRENT MISSOURI MINIMUM STANDARDS FOR PROPERTY SURVEYS (URBAN SURVEY 1:20,000)



YOUNG - HOBBS AND **ASSOCIATES** 

> 1202 CROSSLAND AVE. CLARKSVILLE, TN 37040 PHONE 931-645-2524 FAX 931-645-2768

PRELIMINARY - NOT FOR RECORDING OR LAND TRANSFER

DAVE R. HOBBS, PLS 2014020711



ms consultants, inc. engineers, architects, planners 2221 Schrock Road Columbus, Ohio 43229-1547 phone 614.898.7100 fax 614.898.7570

> **ALTA/NSPS LAND TITLE SURVEY**

OWNER **NFORMATION** 

SHUN PING YEH TAX ID: 70-400-04-03-02-3-00-000 DOC. # 2021E0043600

ALSO BEING TRACT "A" DOC. # 2021E0081920

DOC. # 2021E0043599

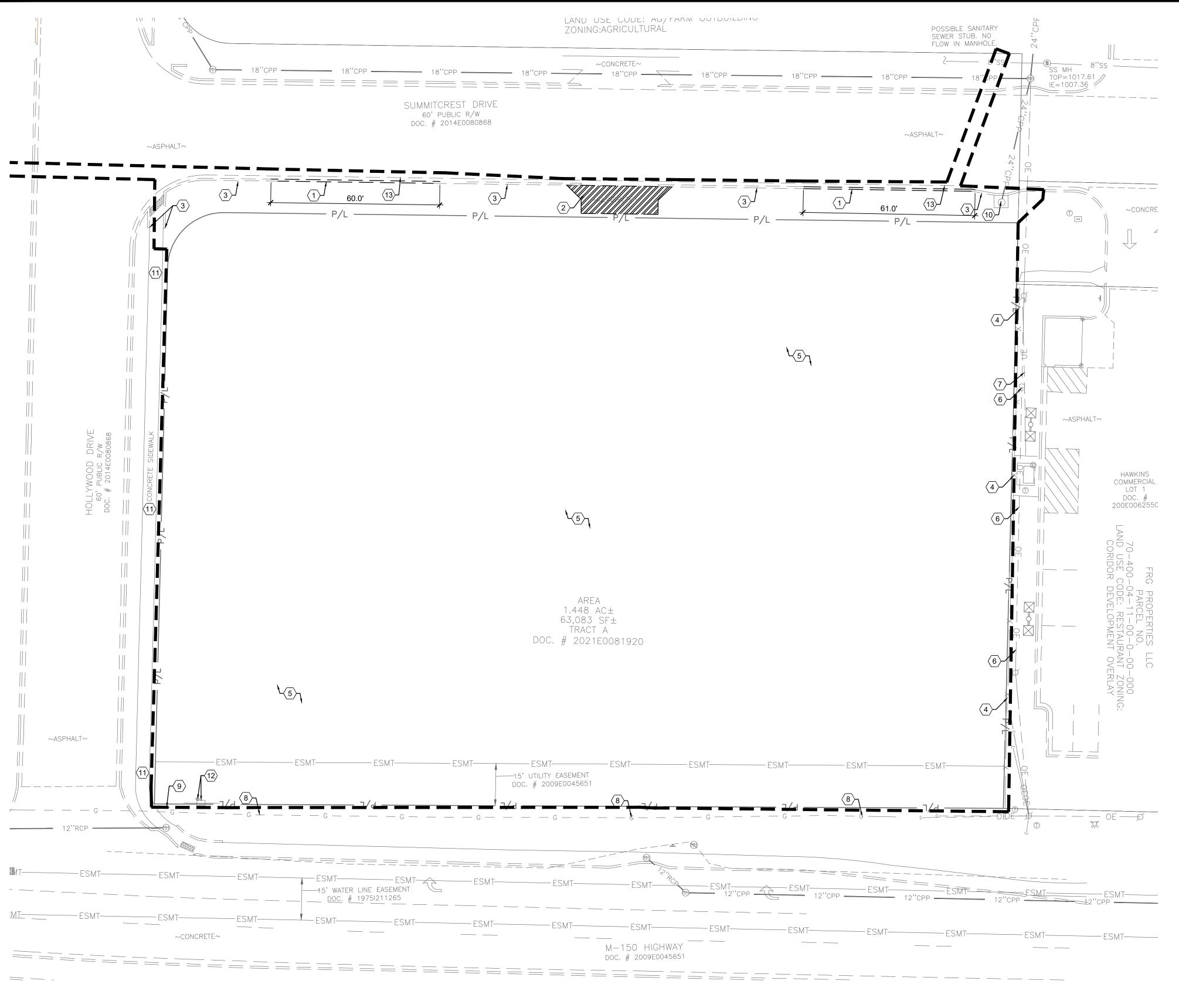
**CITY OF LEES SUMMIT COUNTY OF JACKSON** STATE OF MISSOURI

DRAWN BY: CLH,KAB APPROVED BY: DATE: (FIELD) 11/22/2021 DATE: (OFFICE) 12/16/2021

242-21

YHA PRO.#

SHEET 1 OF 1



## **GENERAL NOTES:**

- A. ALL EXISTING CONDITIONS, TOPOGRAPHY, UTILITIES AND PROPERTY INFORMATION ARE TAKEN FROM A SURVEY OF LAND SITUATED IN THE CITY OF LEE'S SUMMIT, COUNTY OF JACKSON AND STATE OF MISSOURI, BY SURVEYOR: YOUNG-HOBBS AND ASSOCIATES, 1202 CROSSLAND AVENUE CLARKSVILLE, TN 37040.
- B. AT START OF PROJECT AND PRIOR TO DEMOLITION OF EXISTING CONDITIONS, CONTRACTOR SHALL BE IN CONTACT WITH ADJACENT PROPERTY OWNERS, CITY REPRESENTATIVE, UTILITY REPRESENTATIVES AND OWNER REPRESENTATIVE TO COORDINATE DEMOLITION TIMING
- C. CONTRACTOR TO REMOVE AND DISPOSE OF ALL DEBRIS AND OTHER MATERIALS RESULTING FROM DEMOLITION AND CONSTRUCTION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- D. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO ADJACENT PROPERTIES DURING CONSTRUCTION PHASES OF THIS PROJECT. CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR DAMAGE TO NEIGHBORING PROPERTIES OCCURRING AS A RESULT OF CONSTRUCTION ACTIVITIES.
- E. ALL EXISTING UTILITIES ARE SHOWN HEREIN AS REFERENCE ONLY AND ARE BASED ON RECORD OF THE VARIOUS UTILITY COMPANIES, A FIELD SURVEY AND EXISTING PLANS. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS OF ALL UTILITIES PRIOR TO DEMOLITION ACTIVITIES. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES DURING CONSTRUCTION.
- F. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 48 HOURS BEFORE CONSTRUCTION IS TO START, TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATION IS AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
- G. CONTRACTOR SHALL CONFINE ALL STOCKPILING OF DEMOLITION MATERIALS TO WITHIN THE LIMITS OF THE SUBJECT PROPERTY.
- H. CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES PRIOR TO DEMOLITION. SEE SHEETS C-10.0 AND C-10.1 FOR NOTES AND DETAILS.

## **KEYED NOTES:**

- (1) EXISTING CURB TO BE REMOVED AND DISPOSED OF.
- (2) EXISTING CONCRETE TO BE REMOVED AND DISPOSED OF.
- (3) EXISTING CURB TO REMAIN.
- (4) EXISTING WOODEN FENCE TO REMAIN.
- (5) EXISTING VEGETATION TO BE REMOVED AND DISPOSED OF.
- 6 EXISTING OVERHEAD ELECTRIC LINE TO REMAIN DURING CONSTRUCTION.
- (7) EXISTING UNDERGROUND ELECTRIC LINE TO REMAIN DURING CONSTRUCTION.
- PROTECT EXISTING GAS LINE TO REMAIN DURING CONSTRUCTION.
- 9 EXISTING SIGN TO REMAIN.
- (10) EXISTING STORM MANHOLE TO REMAIN.
- (11) EXISTING CONCRETE SIDEWALK TO REMAIN.
- (12) EXISTING AT&T VAULT AND POST TO REMAIN.
- (13) EXISTING GUTTER TO REMAIN ALONG SUMMITCREST DRIVE.

## **LEGEND**

DESCRIPTION
UNDERGROUND ELECTRIC LINE
UNDERGROUND TELECOMMUNICATION LINE
GAS LINE
SANITARY SEWER
STORM SEWER
WATER MAIN
PROPERTY LINE
CONSTRUCTION LIMITS
EASEMENT
CONCRETE REMOVAL
STORM STRUCTURE
WATER STRUCTURE
FIRE HYDRANT
LIGHT POLE

TRAFFIC POLE

TRAFFIC MANHOLE

REVISION/DATE/DESCRIPTION

SIR UPDATES	09/13/21
60% SET	01/24/22
PDP APPLICATION TO CITY	02/24/22
RESPONSE TO CITY COMMENTS I	03/29/22
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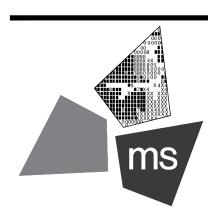
FDP COMMENTS

08/30/22

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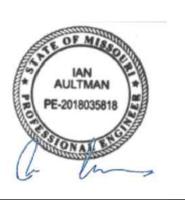
PROJECT

PROPOSED PT20M BUILDING

NEQ HWY 150 & SW HOLLYWOOD DR. LEE'S SUMMIT, MO 64082

SHEET TITLE

SITE DEMOLITION PLAN



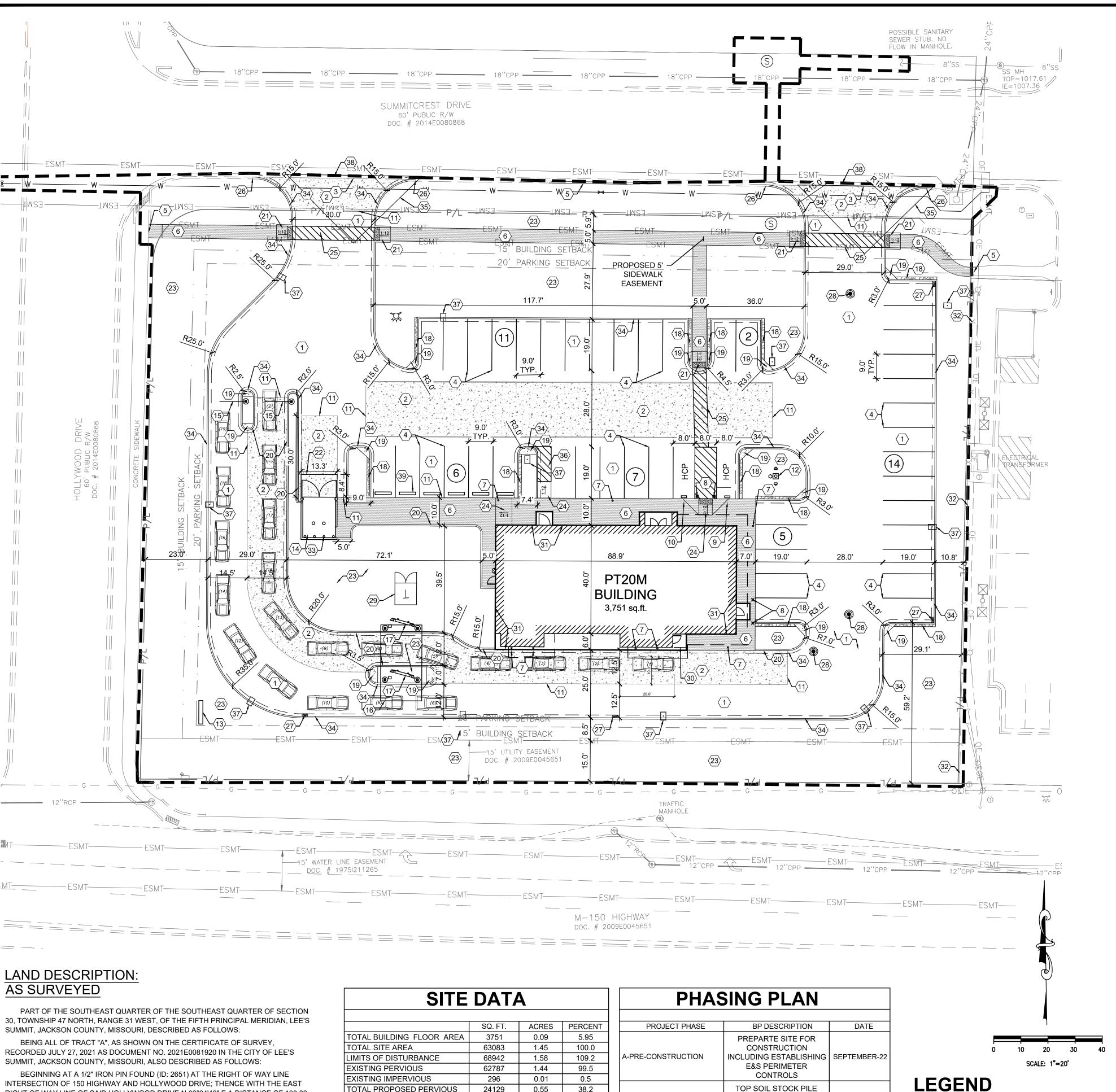
DRAWN BY: TDB

CHECKED BY: PGD

PROJECT NO: 40497-21

DRAWING

C-2.0



RIGHT OF WAY LINE OF SAID HOLLYWOOD DRIVE N 02°24'42" E A DISTANCE OF 190.89 FEET TO A 1/2" IRON PIN FOUND (ID: 2651); THENCE WITH THE RIGHT OF WAY LINE INTERSECTION OF SAID HOLLYWOOD DRIVE AND SUMMITCREST DRIVE WITH A CURVE TURNING TO THE RIGHT WITH AN ARC LENGTH OF 31.05 FEET WITH A RADIUS OF 20.00 FEET WITH A CHORD BEARING OF N 47°11'11" E, WITH A CHORD LENGTH OF 28.02 FEET TO A 1/2" IRON PIN FOUND (ID: 2651); THENCE WITH THE SOUTH RIGHT OF WAY LINE OF SAID SUMMITCREST DRIVE S 88°15'48" E A DISTANCE OF 282.03 FEET TO A 1/2" IRON PIN FOUND (ID: 2651); THENCE LEAVING SAID RIGHT OF WAY LINE WITH THE WEST LINE OF HAWKINS COMMERCIAL LOT 1. RECORDED IN DOCUMENT NO. 200E006255 S 02°26'57" W A DISTANCE OF 208.22 FEET TO A 3/8" IRON PIN FOUND IN THE NORTH RIGHT OF WAY LINE OF SAID 150 HIGHWAY; THENCE WITH SAID NORTH RIGHT OF WAY LINE N 88°42'20" W A DISTANCE OF 301.67 FEET TO THE POINT OF BEGINNING, HAVING AN AREA OF 63,083 SQUARE FEET, 1.448 ACRES, MORE OR LESS.

SITE DATA						
	SQ. FT.	ACRES	PERCENT			
TOTAL BUILDING FLOOR AREA	3751	0.09	5.95			
TOTAL SITE AREA	63083	1.45	100.0			
LIMITS OF DISTURBANCE	68942	1.58	109.2			
EXISTING PERVIOUS	62787	1.44	99.5			
EXISTING IMPERVIOUS	296	0.01	0.5			
TOTAL PROPOSED PERVIOUS	24129	0.55	38.2			
TOTAL PROPOSED IMPERVIOUS	38954	0.89	61.8			
CURRENT ZONING IS CP-2 PLANNED COMMUNITY COMMERCIAL;						
APPROVED BY CITY COUNCIL ON 05/31/22						
FLOOR AREA RATION = 0.059 SF						

PHASING PLAN				
PROJECT PHASE	BP DESCRIPTION	DATE		
PROJECT PHASE		DATE		
A-PRE-CONSTRUCTION	PREPARTE SITE FOR CONSTRUCTION INCLUDING ESTABLISHING E&S PERIMETER CONTROLS	SEPTEMBER-22		
B-PHASE I CONSTRUCTION	TOP SOIL STOCK PILE PROTECTION, SITE CLEARING, TEMPORARY SEEDING, GENERAL SITE PREP	SEPTEMBER-22 DECEMBER-22		
C-PHASE II CONSTRUCTION	CONSTRUCT BUILDING ASPHALT PAVING, STORM STRUCTURE INSTALLATIONS	DECEMBER-22 JANUARY-23		
D-FINAL STABILIZATION	PERMANENT SEEDING	JUNE-23		

- A. ALL EXISTING CONDITIONS, TOPOGRAPHY, UTILITIES AND PROPERTY INFORMATION ARE TAKEN FROM A SURVEY OF LAND SITUATED IN THE CITY OF LEE'S SUMMIT, COUNTY OF JACKSON AND STATE OF MISSOURI, BY SURVEYOR: YOUNG-HOBBS AND ASSOCIATES, 1202 CROSSLAND AVENUE CLARKSVILLE, TN
- B. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION, AND IS RESPONSIBLE FOR ANY DAMAGE TO THEM DURING CONSTRUCTION.
- PROVIDE SMOOTH TRANSITION FROM NEWLY PAVED AREAS TO EXISTING PAVED AREAS AS NECESSARY. THE EXISTING EDGE OF PAVEMENT SHALL BE FREE OF ALL LOOSE DEBRIS AT ALL AREAS WHERE PROPOSED PAVEMENT MEETS EXISTING PAVEMENT. THE EDGE OF EXISTING ASPHALT PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL AREAS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING.
- D. ALL DIMENSIONS TO FACE OF CURB AND/OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND ADDITIONAL INFORMATION.
- ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
- H. ALL EXCAVATED AREAS TO BE SEEDED AND/OR SODDED AFTER FINISH GRADING UNLESS OTHERWISE NOTED. ALL NEWLY SEEDED/SODDED AREAS SHALL HAVE A MINIMUM OF 4" OF TOPSOIL. HOLD SOIL DOWN 1" FROM PAVEMENT ELEVATION. CONTRACTOR TO SUPPLY STRAW MULCH WHERE GRASS SEED HAS
- I. ALL RADII ARE 3.0 FEET UNLESS OTHERWISE SHOWN. ALL RADII INDICATED ON PLANS SHALL BE CONSTRUCTED AS CIRCULAR ARCS.
- J. THERE ARE NO OIL AND GAS WELLS (ACTIVE/INACTIVE/CAPPED) PER THE MISSOURI DEPARTMENT OF NATURAL RESOURCES MAPPING.
- ALL CONSTRUCTION SHALL FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813. WHERE DISCREPANCIES EXISTING BETWEEN THESE PLANS AND THE DESIGN AND CONSTRUCTION MANUAL , THE DESIGN AND CONSTRUCTION MANUAL SHALL
- L. THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.

## **KEYED NOTES:**

**GENERAL NOTES:** 

- PROPOSED HEAVY DUTY ASPHALT PAVEMENT, SEE DETAIL ON SHEET C-7.0.
- PROPOSED HEAVY DUTY CONCRETE PAVEMENT, SEE DETAIL ON SHEET C-7.0.
- PROPOSED HEAVY DUTY CONCRETE PAVEMENT TO BE FLUSH WITH EXISTING ASPHALT PAVEMENT.
- PROPOSED PAINTED PARKING STRIPING (TYPICAL). ALL PARKING STRIPES ARE TO BE 4" PAINTED WHITE, UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS OR SPECIFICATIONS.
- CONNECT TO EXISTING SIDEWALK. SEE THE GRADING PLAN FOR MORE DETAILS.
- PROPOSED CONCRETE SIDEWALK. SEE DETAIL ON SHEET C-7.0.
- PROPOSED BOLLARD, TYP. OF 8. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS.
- PROPOSED ILLUMINATED BOLLARD, TYP. OF 4. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS.
- GENERAL CONTRACTOR TO PROVIDE AND INSTALL (1) POLE-MOUNTED ADA PARKING SIGNS. SIGNS PROVIDED BY CONTRACTOR TO MEET LOCAL
- REQUIREMENTS, SEE DETAIL ON SHEET C-7.0.
- GENERAL CONTRACTOR TO PROVIDE AND INSTALL (1) POLE-MOUNTED ADA PARKING SIGN WITH "VAN ACCESSIBLE" SIGN. SIGNS PROVIDED BY CONTRACTOR TO MEET LOCAL REQUIREMENTS, SEE DETAIL ON SHEET C-7.0.
- CONCRETE TO BE FLUSH WITH ADJACENT ASPHALT PAVEMENT. SEE DETAIL ON SHEET C-7.1.
- FLAGPOLE WITH GROUND-MOUNTED LIGHTS, UNITEDFLAG AND BANNER, GARRISON TYPE OR OWNER APPROVED EQUAL, 30' HIGH, 5" BUTT ALUMINUM WITH 14 GAUGE ALUMINUM BALL FINIAL. INCLUDE ALUMINUM ROLLER AND SLEEVE. HARDWARE TO INCLUDE STATIONARY STRUCK, NYLON FLAGSNAPS, AND HALYARDS. ENTIRE ASSEMBLY (INCLUDING FOUNDATION) TO CONFORM TO APPLICABLE CODES, INCLUDING WIND LOADS. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS.
- PROPOSED 35' HT POLE SIGN, CONTRACTOR TO COORDINATE WITH OWNER. SEE ELECTRICAL PLANS AND SIGNAGE PACKAGE FOR DETAILS.
- PROPOSED DUMPSTER ENCLOSURE AND CONCRETE PAD. SEE THE STRUCTURAL AND ARCHITECTURAL SHEETS FOR DETAILS.
- PROPOSED HEADACHE BAR. SEE ARCHITECTURAL PLANS FOR DETAILS.
- PROPOSED MENU BOARD CANOPY. SEE ARCHITECTURAL PLANS FOR DETAILS.
- PROPOSED EXTERIOR MENU BOARD. SEE ARCHITECTURAL PLANS FOR DETAILS.
- PROPOSED 1' WIDE CRUSHED GRANITE STRIP. SEE DETAIL ON SHEET L-1.0.
- PROPOSED CONCRETE ISLAND NOSE. SEE DETAIL ON SHEET C-7.1.
- PROPOSED 6" MONOLITHIC CURB. SEE DETAIL ON SHEET C-7.1.
- PROPOSED ADA SIDEWALK RAMP. SEE DETAIL ON SHEET C-7.1.
- CONCRETE DUMPSTER ENCLOSURE APRON. TRASH ENCLOSURE AREA SHALL BE IMPROVED WITH A PORTLAND CEMENT CONCRETE PAD AND PORTLAND CEMENT CONCRETE APPROACH 30 FEET IN LENGTH, MEASURED FROM THE ENCLOSURE OPENING. THE PAD AND APPROACH SHALL BE IMPROVED WITH A MINIMUM 6" OF FULL DEPTH UNREINFORCED PORTLAND CEMENT CONCRETE CONSTRUCTED ON A SUB-GRADE OF 4" OF GRANULAR BASE COURSE. SEE DETAIL ON SHEET C-7.0.
- PROPOSED LANDSCAPE AREA. SEE LANDSCAPE PLAN ON SHEET L-1.
- PROPOSED CURB RAMP. SEE DETAIL ON SHEET C-7.0.
- PROPOSED SIDEWALK CROSSING. SEE DETAIL ON SHEET C-7.2.
- CONNECT PROPOSED CURB TO EXISTING CURB (TRANSITION REQUIRED).
- PROPOSED STORM INLET. SEE SHEETS C-5.0 AND C-7.5 FOR DETAILS.
- PROPOSED STORM MANHOLE/JUNCTION BOX. SEE SHEETS C-5.0, C-7.5, AND C-7.6 FOR DETAILS.
- PROPOSED ELECTRIC TRANSFORMER. COORDINATE DETAILS AND LOCATION WITH UTILITY OWNER AND ELECTRICAL PLANS. SEE SHEET C-6.0.
- PROPOSED HAND RAIL. SEE ARCHITECTURAL SHEETS FOR DETAILS.
- PROPOSED STRUCTURAL FOUNDATION.
- EXISTING WOODEN FENCE TO REMAIN.
- TRASH ENCLOSURE SHALL BE PROTECTED THROUGH INSTALLATION OF 4" BOLLARDS (TYP. OF 4) ALONG THE REAR WALL OF THE TRASH ENCLOSURE.
- SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS. TYPE CG-1 CURB AND GUTTER. SEE DETAIL ON SHEET C-7.1.
- SITE TRIANGLE.
- PROPOSED PARKING STRIPING. SEE DETAIL ON SHEET C-7.0.
- PROPOSED LIGHT POLE AND FOUNDATION. SEE STRUCTURAL PLANS FOR DETAILS.
- EXISTING GUTTER LINE TO BE MAINTAINED.
- PROPOSED PRE-CAST CONCRETE WHEEL STOP (TYP. OF 6). SEE DETAIL ON SHEET C-7.0.

LEGEND				PARKING SETBACK LINE
FEATURE	DESCRIPTION			GUTTER LINE
	CONCRETE SIDEWALK	E	SMT-	PROPOSED SIDEWALK EASEMENT
	HEAVY DUTY ASPHALT PAVEMENT	E	SMT-	EXISTING EASEMENT
Red The Land Control of the Control	HEAVY DUTY CONCRETE PAVEMENT	EXISTING	PROPOSED	
	CONSTRUCTION LIMITS		P	LIGHT POLE
	BUILDING SETBACK LINE			FIRE HYDRANT

PARK	KING D	ATA
	REQUIRED	PROVIDED
RD	53	43
ΛP	3	2

**HANDICA** TOTAL \*14 PARKING SPACE REQUIRED PER 1000 S.F. OF THE GROSS BUILDING FLOOR AREA (3,751 SF OF DINING AREA)

\*\*1 ADA SPACE PER 25 STANDARD SPACES \*\*\*FEWER SPACES ALLOWABLE IF EVIDENCE OF SUCCESS

ON SIMILAR PROJECTS CAN BE PROVIDED. \*PARKING JUSTIFICATION WAS SUBMITTED TO THE CITY ON 03/29/22 AS PART OF THE PDP PROCESS.

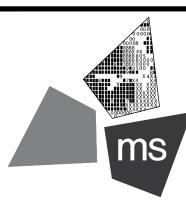
REVISION/DATE/DESCRIPTION

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FDP COMMENTS

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phone 614.898.7100

fax 614.898.7570

PROJECT

PROPOSED PT20M BUILDING

NEQ HWY 150 & SW HOLLYWOOD DR. LEE'S SUMMIT, MO 64082

SHEET TITLE

SITE DIMENSION PLAN



DRAWN BY: CHECKED BY: 40497-21 PROJECT NO:

DRAWING

# LAND DESCRIPTION: AS SURVEYED

PART OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 30, TOWNSHIP 47 NORTH, RANGE 31 WEST, OF THE FIFTH PRINCIPAL MERIDIAN, LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, DESCRIBED AS FOLLOWS:

BEING ALL OF TRACT "A", AS SHOWN ON THE CERTIFICATE OF SURVEY, RECORDED JULY 27, 2021 AS DOCUMENT NO. 2021E0081920 IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, ALSO DESCRIBED AS FOLLOWS:

BEGINNING AT A 1/2" IRON PIN FOUND (ID: 2651) AT THE RIGHT OF WAY LINE INTERSECTION OF 150 HIGHWAY AND HOLLYWOOD DRIVE; THENCE WITH THE EAST RIGHT OF WAY LINE OF SAID HOLLYWOOD DRIVE N 02°24'42" E A DISTANCE OF 190.89 FEET TO A 1/2" IRON PIN FOUND (ID: 2651); THENCE WITH THE RIGHT OF WAY LINE INTERSECTION OF SAID HOLLYWOOD DRIVE AND SUMMITCREST DRIVE WITH A CURVE TURNING TO THE RIGHT WITH AN ARC LENGTH OF 31.05 FEET WITH A RADIUS OF 20.00 FEET WITH A CHORD BEARING OF N 47°11'11" E, WITH A CHORD LENGTH OF 28.02 FEET TO A 1/2" IRON PIN FOUND (ID: 2651); THENCE WITH THE SOUTH RIGHT OF WAY LINE OF SAID SUMMITCREST DRIVE S 88°15'48" E A DISTANCE OF 282.03 FEET TO A 1/2" IRON PIN FOUND (ID: 2651); THENCE LEAVING SAID RIGHT OF WAY LINE WITH THE WEST LINE OF HAWKINS COMMERCIAL LOT 1, RECORDED IN DOCUMENT NO. 200E006255 S 02°26'57" W A DISTANCE OF 208.22 FEET TO A 3/8" IRON PIN FOUND IN THE NORTH RIGHT OF WAY LINE OF SAID 150 HIGHWAY; THENCE WITH SAID NORTH RIGHT OF WAY LINE N 88°42'20" W A DISTANCE OF 301.67 FEET TO THE POINT OF BEGINNING, HAVING AN AREA OF 63,083 SQUARE FEET, 1.448 ACRES, MORE OR LESS.



NTS

ZONING MAP

PROPOSED SITE LOCATION —

TI SUMMIT CREST PLAZA LLC

70-500--03-14-00-0-00-000 LAND USE CODE: SHOP. CENTER-NHBD ZONING: PLANNED COMMUNITY

PARCEL NO.

COMMERCIAL

CBK LAND HOLDINGS LLC

HFI 463 WARD LLC
PARCEL NO.
70-400-04-03-02-3-00-000
CURRENT ZONING: PLANNED COMMUNITY
COMMERCIAL - M-150 CORRIDOR DEVLOPMENT
OVERLAY DISTRICT; APPROVED BY CITY COUNCIL
ON 05/31/22.

TALLGRASS HOLDINGS LLC
PARCEL NO.
70-910-19-03-00-0-000
LAND USE CODE: RESTAURANT
ZONING: PLANNED COMMUNITY COMMERCIAL—
M-150 CORRIDOR DEVELOPMENT OVERLAY DISTRICT

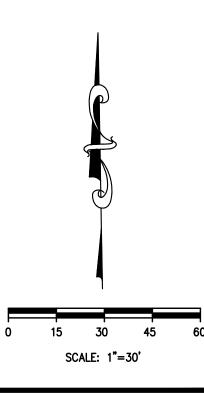
SUMMITCREST DRIVE 60' PUBLIC R/W DOC. # 2014E0080868

PROPERTY BOUNDARY OF PARCEL TO BE REZONED

BANK OF LEE'S SUMMIT
PARCEL NO.
70-910-20-01-00-0-000
LAND USE CODE: BANK
ZONING: PLANNED COMMUNITY COMMERCIAL—
M-150 CORRIDOR DEVELOPMENT OVERLAY DISTRICT

PARCEL NO. 70-400-04-03-02-2-00-000

LAND USE CODE: AG/FARM OUTBUILDING



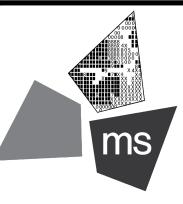
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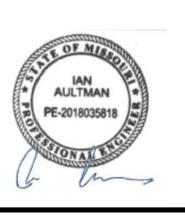
PROJECT

PROPOSED PT20M BUILDING

NEQ HWY 150 & SW HOLLYWOOD DR. LEE'S SUMMIT, MO 64082

SHEET TITLE

SITE ZONING PLAN



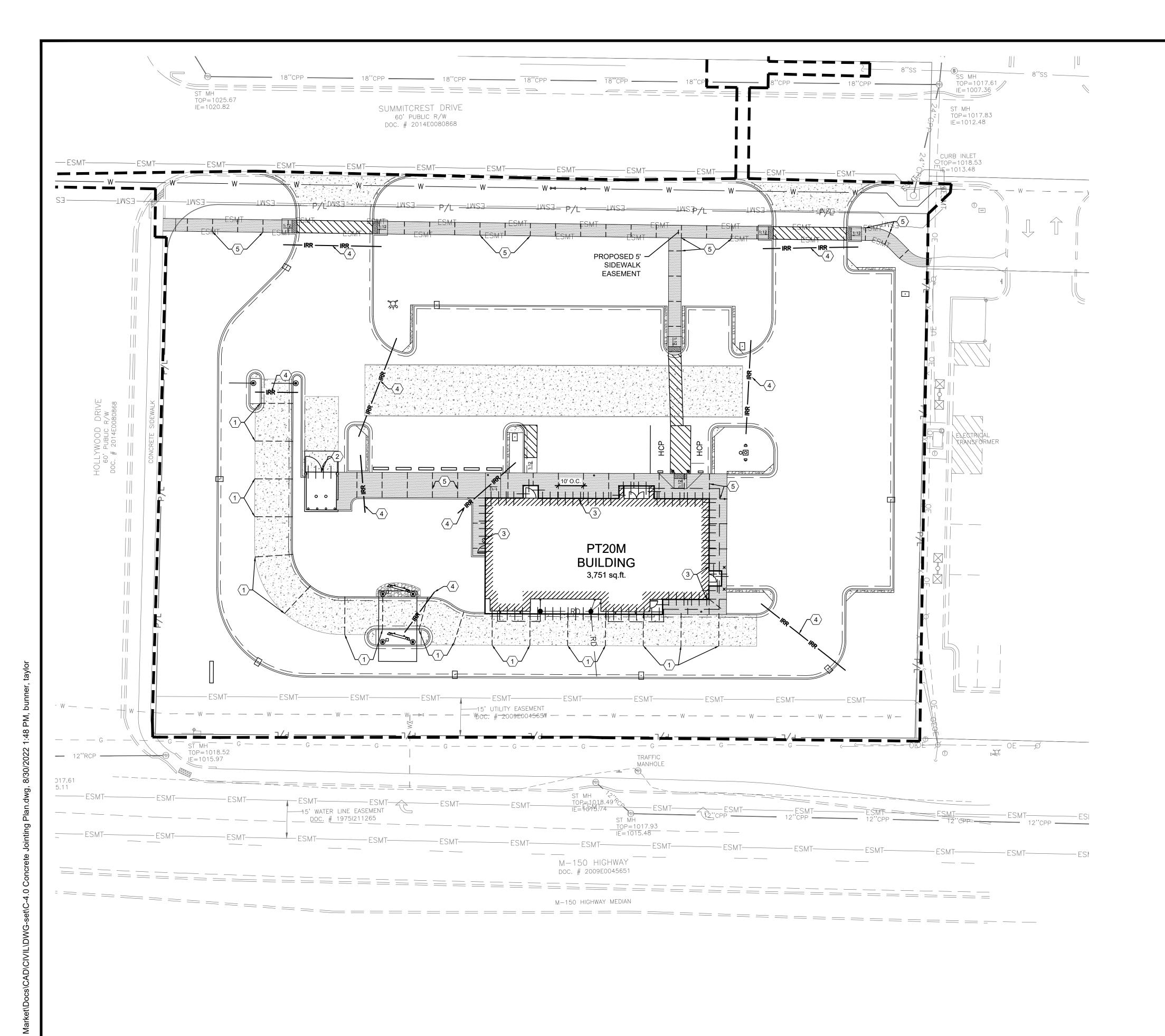
DRAWN BY: TDB

CHECKED BY: PGD

PROJECT NO: 40497-21

DRAWING

C-3.1



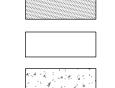
## **GENERAL NOTES:**

- A. PAVEMENT SPECIFICATION AND RECOMMENDATIONS TO BE TAKEN FROM GEOTECHNICAL REPORT.
- B. PORTLAND CEMENT CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- C. MAXIMUM CONTROL JOINT SPACING SHALL NOT EXCEED 15 FEET.
- D. EXPANSION JOINTS SHALL BE USED WHEREVER THE PAVEMENT WILL ABUT A STRUCTURAL ELEMENT SUBJECT TO DIFFERENT MAGNITUDE OF MOVEMENT (E.G., LIGHT POLES, RETAINING WALLS, EXISTING PAVEMENT, STAIRWAYS, ENTRYWAY PIERS, BUILDING WALLS, MANHOLES, ETC.)
- E. EXPANSION JOINTS SHALL BE SEALED PER DETAILS ON SHEET C-7.0 TO MINIMIZE MOISTURE INFILTRATION INTO SUBGRADE SOILS AND RESULTANT CONCRETE DETERIORATION AT THE
- F. SLEEVES SHOWN ARE FOR IRRIGATION ONLY. ADDITIONAL SLEEVES MAY BE REQUIRED FOR OTHER FRANCHISE UTILITIES. CONTRACTOR SHALL COORDINATE LOCATION AND SUPPLY ADDITIONAL SLEEVES REQUIRED FOR ELECTRICAL AND TELECOMMUNICATION SERVICES.
- G. ALL CONCRETE JOINTS SHALL RUN CONTINUOUSLY THROUGH CURBS.

## **KEYED NOTES:**

- SAWED CONSTRUCTION JOINT REQUIRED, TYPICAL. SEE DETAIL ON SHEET C-7.0.
- DOWELED EXPANSION JOINT REQUIRED, TYPICAL. SEE DETAIL ON SHEET C-7.0.
- (3) EXPANSION JOINT REQUIRED WHERE CONCRETE OR CURB ABUTS BUILDING FOUNDATION, STORM STRUCTURE, FLUME, OR SIDEWALK OPENING. SEE DETAIL ON SHEET C-7.0.
- SCHEDULE 40 PVC IRRIGATION SLEEVE, SEE SHEET I-1.0 FOR MORE INFORMATION.
- 5 INSTALL CONTRACTION JOINTS 10' ON CENTER AS SHOWN ON DETAIL C ON SHEET C-7.0 (TYP).

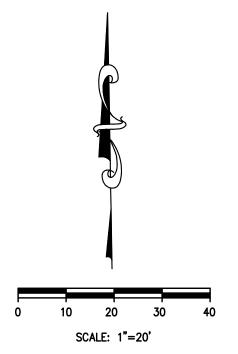
## **LEGEND**



CONCRETE SIDEWALK

HEAVY DUTY ASPHALT PAVEMENT

HEAVY DUTY CONCRETE PAVEMENT





REVISION/DATE/DESCRIPTION

FDP COMMENTS

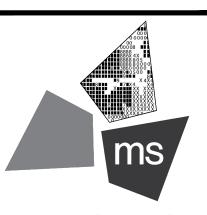
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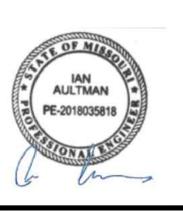
PROJECT

PROPOSED PT20M BUILDING

NEQ HWY 150 & SW HOLLYWOOD DR. LEE'S SUMMIT, MO 64082

SHEET TITLE

CONCRETE
JOINTING PLAN



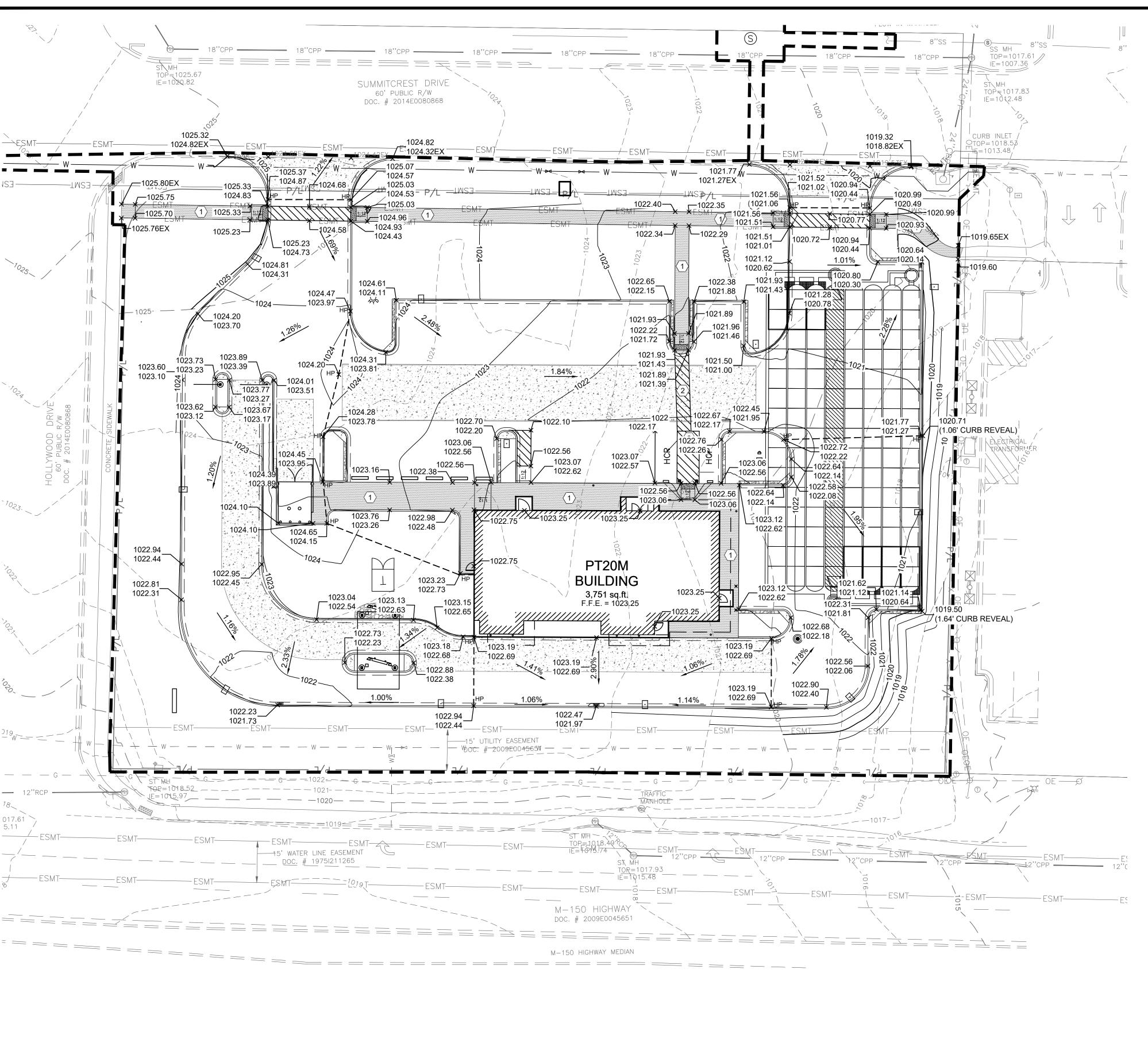
DRAWN BY: TDB

CHECKED BY: PGD

PROJECT NO: 40497-21

DRAWING

C-4.0



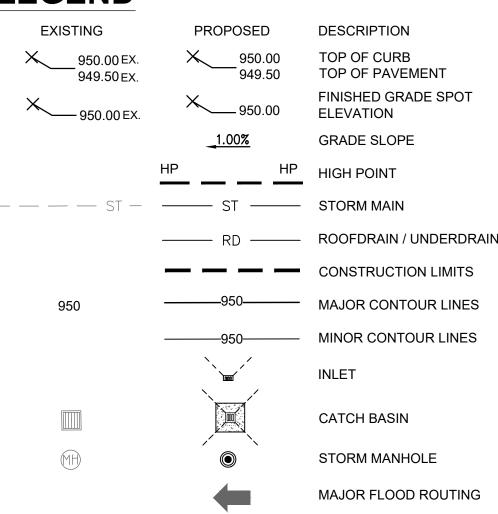
## **GENERAL NOTES:**

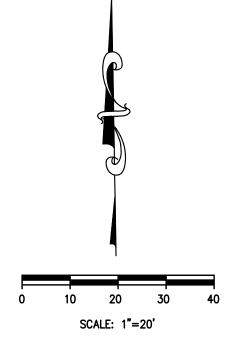
- A. ALL EXISTING CONDITIONS, TOPOGRAPHY, UTILITIES AND PROPERTY INFORMATION ARE TAKEN FROM A SURVEY OF LAND SITUATED IN THE CITY OF LEE'S SUMMIT, COUNTY OF JACKSON AND STATE OF MISSOURI, BY SURVEYOR: YOUNG-HOBBS AND ASSOCIATES, 1202 CROSSLAND AVENUE CLARKSVILLE, TN 37040.
- B. ALL CONSTRUCTION METHODS AND MATERIAL MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
- C. ALL PROPOSED SPOT ELEVATIONS SHOWN ARE TOP OF CURB AND FINAL GRADE ELEVATIONS UNLESS OTHERWISE NOTED.
- D. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- E. CONTRACTOR TO VERIFY ALL EXISTING GRADES AND CONTACT ENGINEER PRIOR TO BEGINNING WORK IF DISCREPANCY IS FOUND. CONTRACTOR TO
- VERIFY ASSUMED FINISHED FLOOR ELEVATION PRIOR TO BEGINNING WORK.
- F. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS TO NOT CAUSE DAMAGE.
- G. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 48 HOURS BEFORE CONSTRUCTION IS TO START, TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATION IS AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
- H. ALL WORK SHALL BE PERFORMED FROM PRIVATE PROPERTY. ALL TRAFFIC LANES MUST REMAIN OPEN AT ALL TIMES.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES DURING CONSTRUCTION AND ALL DAMAGE SHALL BE REPAIRED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER OR CITY.
- J. CONTRACTOR SHALL INSTALL AND BACKFILL STRUCTURES AND TRENCHES PER DETAILS ON SHEET C-7.1.
- K. ALL EXISTING UTILITIES ARE TAKEN FROM SURVEY AND DO NOT NECESSARILY REPRESENT ALL UNDERGROUND UTILITIES ADJACENT TO OR UPON PREMISES SHOWN ON PLAN.
- L. ALL STORM CONDUITS ARE ADS N-12 SMOOTH INTERIOR HDPE PIPE OR APPROVED EQUAL, UNLESS OTHERWISE NOTED.
- M. ALL CONSTRUCTION SHALL FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813. WHERE DISCREPANCIES EXIST BETWEEN THESE PLANS AND THE DESIGN AND CONSTRUCTION MANUAL, THE DESIGN AND CONSTRUCTION MANUAL SHALL PREVAIL.
- N. THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.

## **KEYED NOTES:**

- (1) CONTRACTOR TO MAINTAIN 2.00% MAX CROSS SLOPE ON SIDEWALK.
- (2) CONTRACTOR TO MAINTAIN MAX 2.00% SLOPE IN ALL DIRECTIONS IN HANDICAP ACCESSIBLE AREA.

## **LEGEND**







#### REVISION/DATE/DESCRIPTION

П	SIR UPDATES	09/13/2
Ш	60% SET	01/24/2
	PDP APPLICATION TO CITY	02/24/2
	RESPONSE TO CITY COMMENTS I	03/29/2
	FINAL	06/29/2

RESPONSE TO

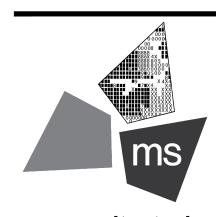
FDP COMMENTS

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PROJECT

PROPOSED PT20M BUILDING

NEQ HWY 150 & SW HOLLYWOOD DR. LEE'S SUMMIT, MO 64082

SHEET TITLE

SITE GRADING PLAN



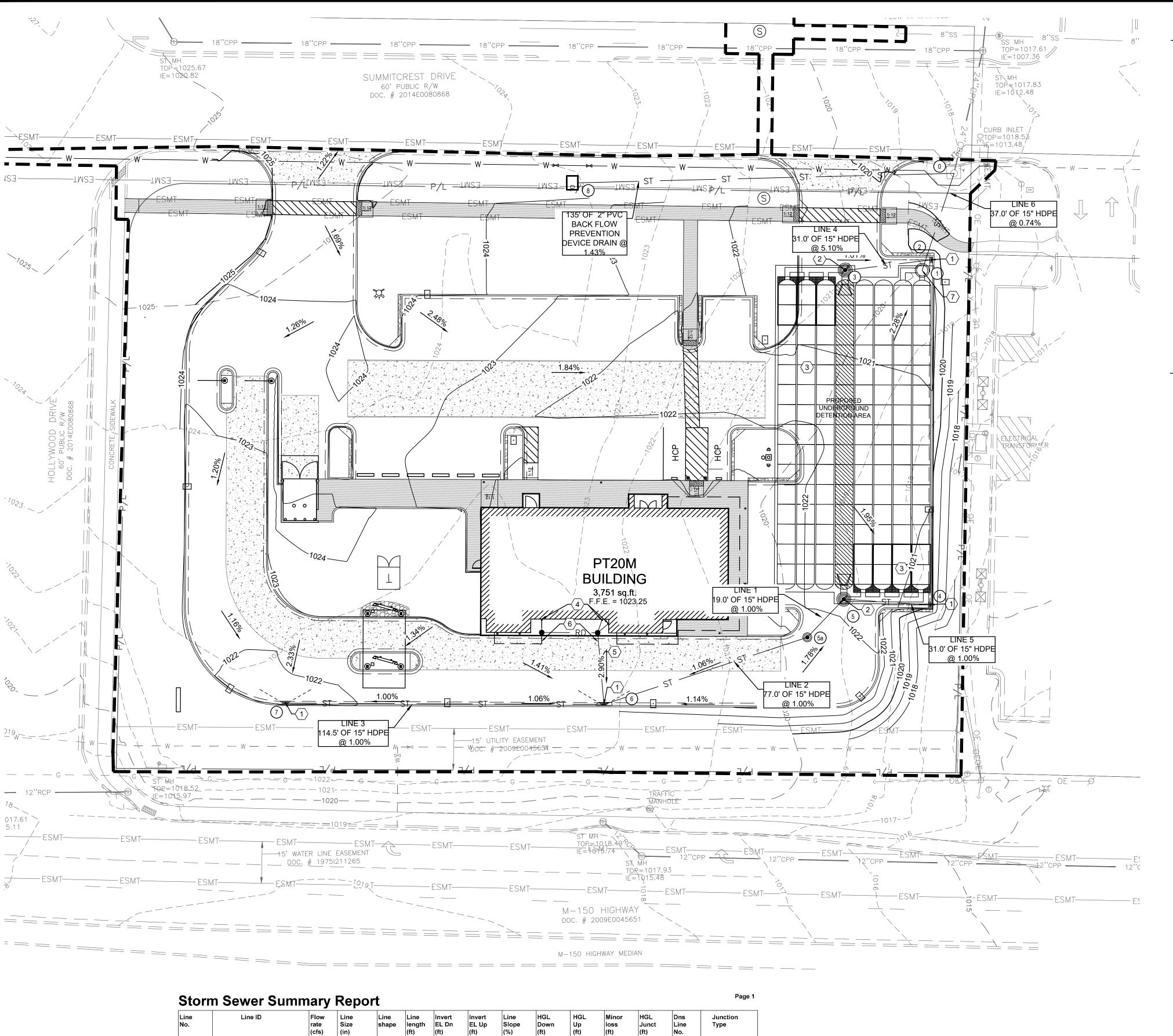
DRAWN BY: TDB

CHECKED BY: PGD

PROJECT NO: 40497-21

DRAWING

C-5.0



EL Up

1014.71 1.001

1015.85 0.995

1014.41

1014.60

1016.41 j

1016.00

1014.46 j End

1013.92 End None

End Curb-

1014.60 | 1015.38

1015.38 1016.41

1014.41 | 1016.00 | 0.26

1014.15 | 1014.46 | n/a

1013.65 | 1013.92 | 0.06

1013.75 | 1013.94 |

31.102 | 1013.75 | 1015.34 | 5.112

30.930 | 1013.75 | 1014.06 | 1.002

36.725 | 1013.48 | 1013.75 | 0.735

Pipe - 13

Pipe - 10

Pipe - 9

Pipe - 12

Pipe - 14

Pipe - 11

2.80

1.96

2.71

1.02

0.19

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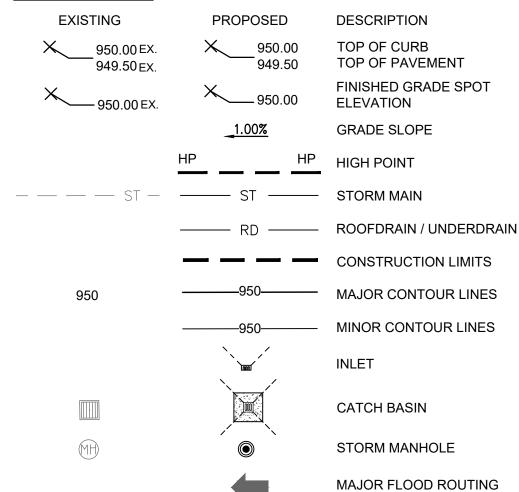
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## **KEYED NOTES:**

- PROPOSED CURB INLET AND FINGER DRAIN. SEE DETAILS ON SHEETS C-7.1 AND C-7.5.
- PROPOSED STORM MANHOLE/JUNCTION BOX. SEE DETAILS ON SHEET C-7.5 AND C-7.6.
- PROPOSED UNDERGROUND DETENTION SYSTEM, ADS STORMTECH MC-3500 CHAMBER SYSTEM, 19665 CF SEE DETAILS ON SHEET C-7.5.
- PROPOSED DOWNSPOUT COLLECTOR SYSTEM.
- 6" STORM LINE FROM ROOF DRAIN TO CONNECT TO PROPOSED STORM SYSTEM. CONTRACTOR TO MAINTAIN A MINIMUM SLOPE OF 1.00% ON ALL ROOF DRAIN PIPES.
- PROPOSED STORM CLEANOUT. SEE DETAIL ON SHEET C-7.1 FOR DETAILS.
- PROPOSED OUTLET CONTROL STRUCTURE. SEE DETAIL ON SHEET C-7.6 FOR DETAILS.

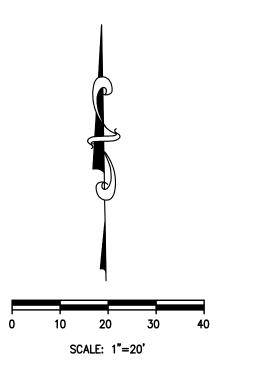
# **LEGEND**



<b>DETENTION SUMMARY</b>		
DESIGNED DETENTION VOLUME	AS-BUILT DETENTION VOLUME	REQUIRED DETENTION VOLUME
20,540 CU.FT.		19,000 CU. FT.

## STORM STRUCTURE DATA

- EXISTING STORM INLET RIM = 1018.53EX: 24" INV. (NE) = 1013.48 PR: 15" INV (SW) = 1013.48 PR. 2" INV (W) = 1014.56
- PROPOSED OUTLET CONTROL STRUCTURE RIM = 1020.30PR: 15" INV (NW) = 1013.75
- PROPOSED CURB INLET RIM = 1020.16PR: 15" INV (NW) = 1015.34
- PROPOSED STORM MANHOLE RIM = 1020.54PR: 15" INV (NE) = 1013.75
- PROPOSED CURB INLET RIM = 1020.67PR. 15" INV. (NW) = 1014.06
- PROPOSED STORM MANHOLE RIM = 1021.58PR: 15" INV (SE) = 1013.75
- 50 PROPOSED STORM MANHOLE RIM = 1022.40PR: 15" INV (NE) = 1013.94
- 6 PROPOSED CURB INLET RIM = 1021.98PR: 15" INV (NE) = 1014.71
- 7 PROPOSED CURB INLET RIM = 1021.75PR: 15" INV (E) = 1015.85
- PROPOSED 2" BACKFLOW VAULT DRAIN RIM = 1021.75PR: 2" INV (S) = 1015.89





REVISION/DATE/DESCRIPTION

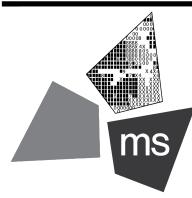
SIR UPDATES	09/13/2
60% SET	01/24/2
PDP APPLICATION TO CITY	02/24/2
RESPONSE TO CITY COMMENTS I	03/29/2
FINAL DEVELOPMENT SET	06/29/2

RESPONSE TO

FDP COMMENTS

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PROJECT

PROPOSED PT20M BUILDING

NEQ HWY 150 & SW HOLLYWOOD DR. LEE'S SUMMIT, MO 64082

SHEET TITLE

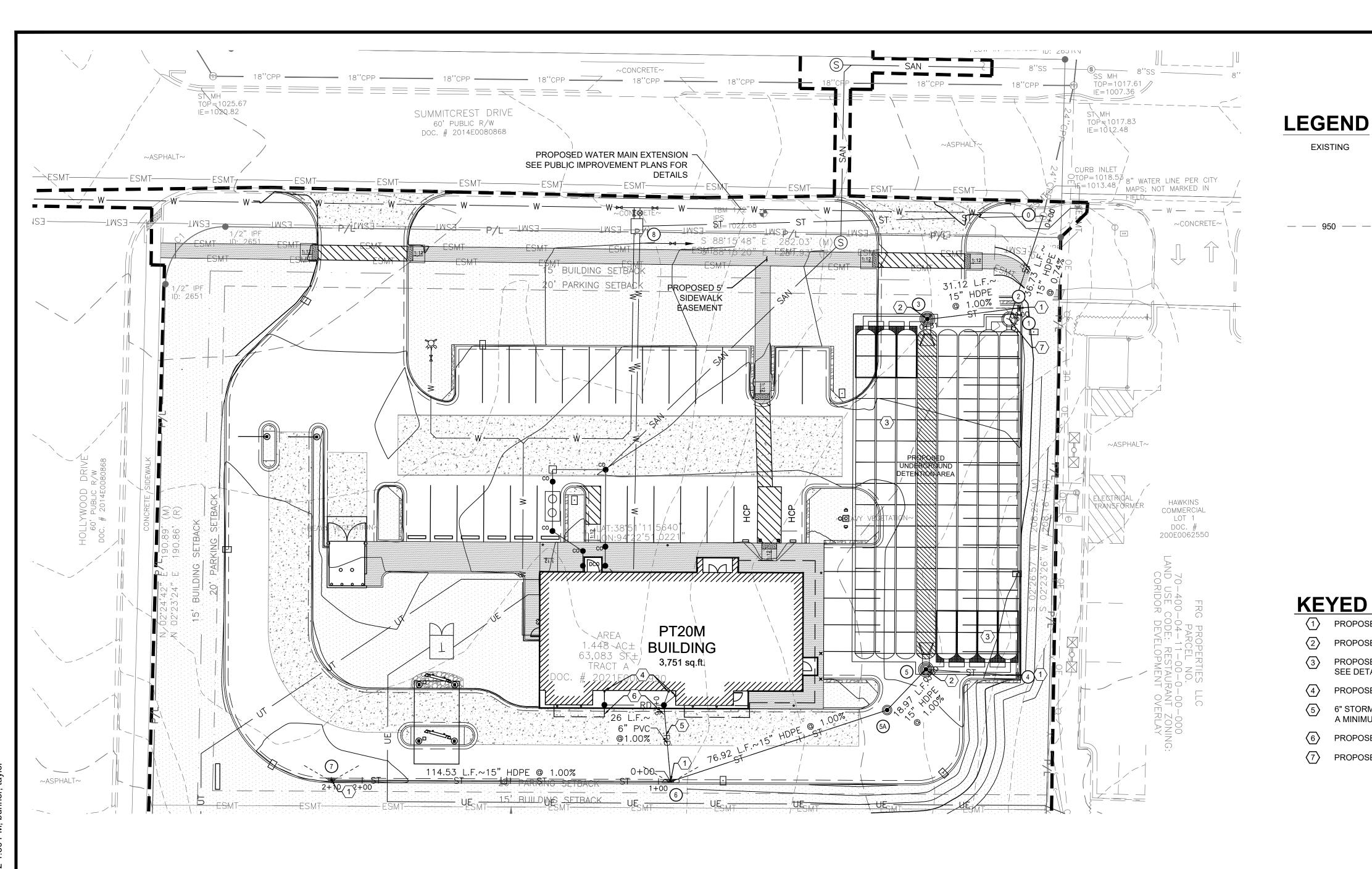
SITE DRAINAGE PLAN



DRAWN BY: CHECKED BY: 40497-21 PROJECT NO:

DRAWING

C-5.1



## STORM STRUCTURE DATA

 EXISTING STORM INLET

 DIM = 1010.75 RIM = 1018.53EX: 24" INV. (NE) = 1013.48 PR: 15" INV (SW) = 1013.48 PR. 2" INV (W) = 1014.56

PROPOSED OUTLET CONTROL STRUCTURE RIM = 1020.30PR: 15" INV (NW) = 1013.75

2 PROPOSED CURB INLET RIM = 1020.16PR: 15" INV (NW) = 1014.07

4 PROPOSED CURB INLET RIM = 1020.67

5 PROPOSED STORM MANHOLE RIM = 1021.58

RIM = 1021.98PR: 15" INV (NE) = 1014.74

RIM = 1021.75PR: 15" INV (E) = 1015.89

VAULT DRAIN RIM = 1021.75 PR: 2" INV (S) = 1015.89

## **KEYED NOTES:**

**EXISTING** 

- PROPOSED CURB INLET AND FINGER DRAIN. SEE DETAILS ON SHEETS C-7.1 AND C-7.5.

DESCRIPTION

ROOFDRAIN / UNDERDRAIN

CONSTRUCTION LIMITS

MINOR CONTOUR LINES

— MAJOR CONTOUR LINES

— STORM MAIN

INLET

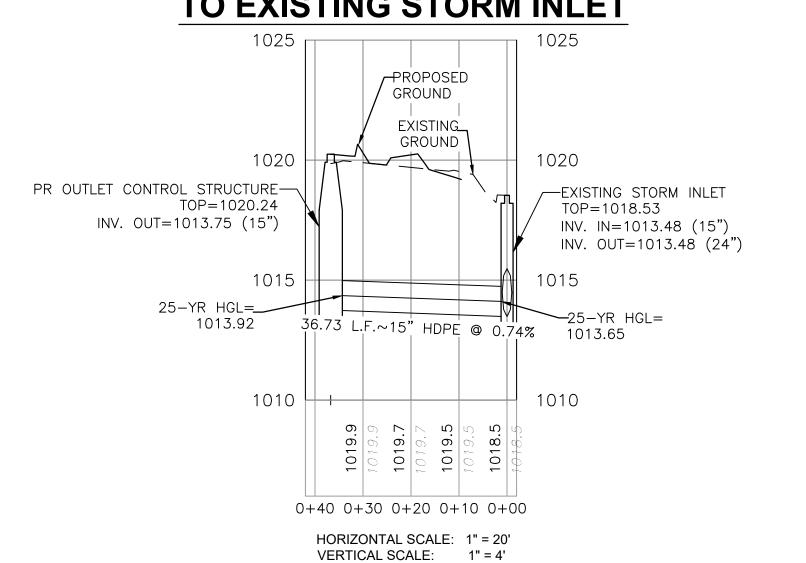
CATCH BASIN

STORM MANHOLE

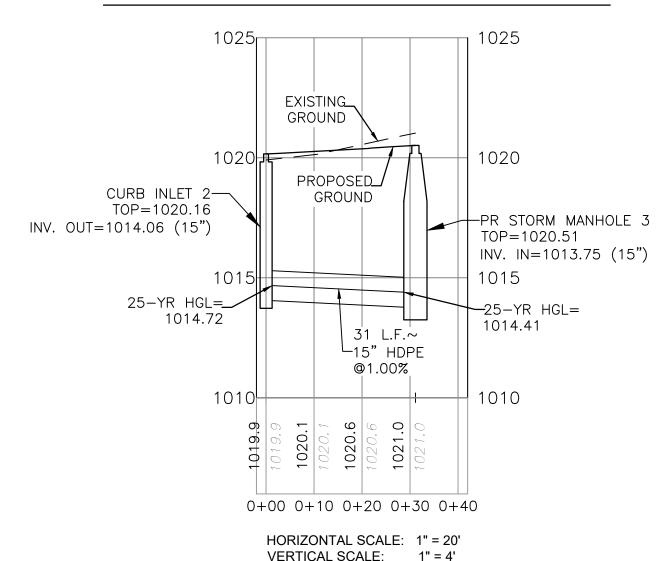
MAJOR FLOOD ROUTING

- SEE DETAILS ON SHEET C-7.5.
- PROPOSED DOWNSPOUT COLLECTOR SYSTEM.
- A MINIMUM SLOPE OF 1.00% ON ALL ROOF DRAIN PIPES.
- PROPOSED STORM CLEANOUT. SEE DETAIL ON SHEET C-7.1 FOR DETAILS.

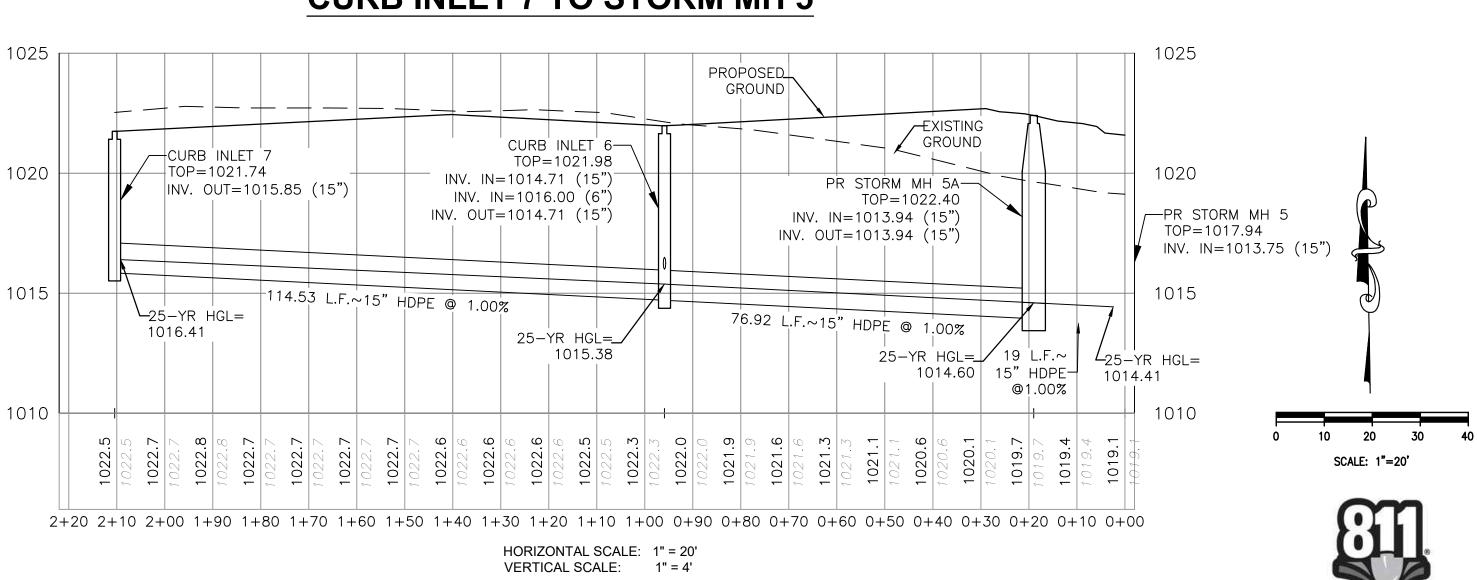
## **OUTLET CONTROL STRUCTURE** TO EXISTING STORM INLET



# **CURB INLET 2 TO STORM MH 3**



## **CURB INLET 7 TO STORM MH 5**



Know what's **below**.

Call before you dig.

3 PROPOSED STORM MANHOLE RIM = 1020.54PR: 15" INV (NE) = 1013.75

PR. 15" INV. (NW) = 1014.06

PR: 15" INV (SE) = 1013.75

PROPOSED STORM MANHOLE RIM = 1022.40PR: 15" INV (NE) = 1013.97

6 PROPOSED CURB INLET

7 PROPOSED CURB INLET

8 PROPOSED 2" BACKFLOW

PROPOSED STORM MANHOLE/JUNCTION BOX. SEE DETAILS ON SHEET C-7.5 AND C-7.6.

PROPOSED UNDERGROUND DETENTION SYSTEM, ADS STORMTECH MC-3500 CHAMBER SYSTEM, 19665 CF.

6" STORM LINE FROM ROOF DRAIN TO CONNECT TO PROPOSED STORM SYSTEM. CONTRACTOR TO MAINTAIN

PROPOSED OUTLET CONTROL STRUCTURE. SEE DETAIL ON SHEET C-7.6 FOR DETAILS.

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Columbus, Ohio 43229-1547 phone 614.898.7100 fax 614.898.7570

REVISION/DATE/DESCRIPTION

09/13/21

01/24/22

02/24/22

03/29/22

06/29/22

08/30/22

SIR UPDATES

PDP APPLICATION

RESPONSE TO CITY

**DEVELOPMENT SET** 

CONFIDENCE AND SHALL BE USED ONLY PURSUANT TO THE AGREE-

MENT WITH THE ARCHITECT. NO OTHER USE, DISSEMINATION

CALLY RESERVED.

OR DUPLICATION MAY BE MADE WITHOUT PRIOR WRITTEN CONSENT

OF THE ARCHITECT. ALL COMMON LAW RIGHTS OF COPYRIGHT AND OTHERWISE ARE HEREBY SPECIFI-

COMMENTS I

RESPONSE TO

FDP COMMENTS

60% SET

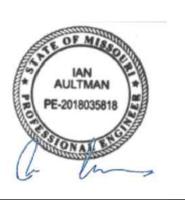
PROJECT

PROPOSED PT20M BUILDING

NEQ HWY 150 & SW HOLLYWOOD DR. LEE'S SUMMIT, MO 64082

SHEET TITLE

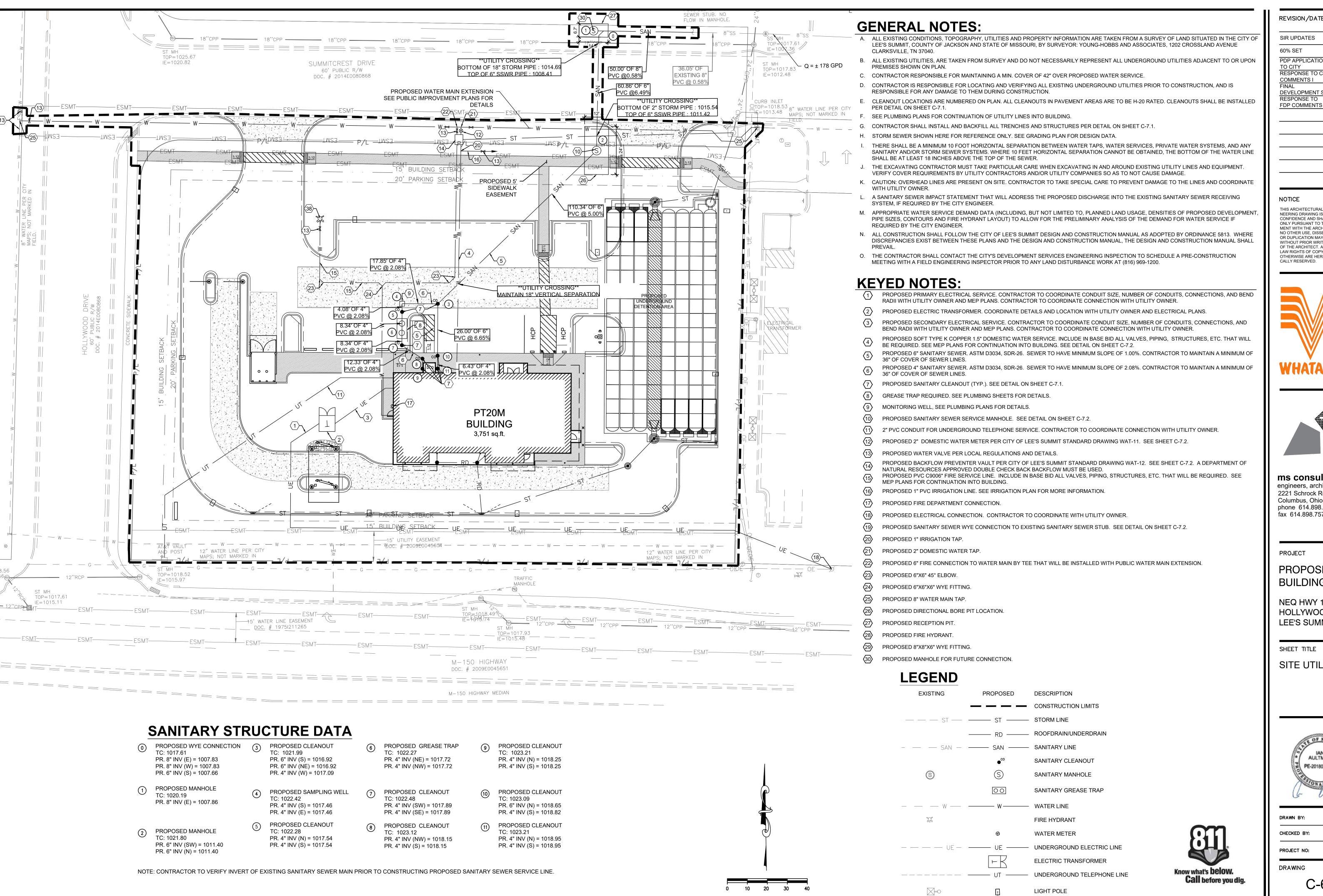
STORM SEWER PLAN AND PROFILE



DRAWN BY: CHECKED BY: 40497-21 PROJECT NO:

DRAWING

C-5.2



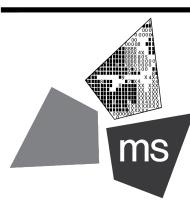
SCALE: 1"=20'

REVISION/DATE/DESCRIPTION

ı	SIR UPDATES	09/13/2
I	60% SET	01/24/2
I	PDP APPLICATION TO CITY	02/24/2
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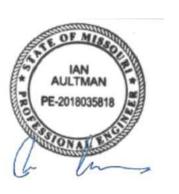
PROJECT

PROPOSED PT20M BUILDING

NEQ HWY 150 & SW HOLLYWOOD DR. LEE'S SUMMIT, MO 64082

SHEET TITLE

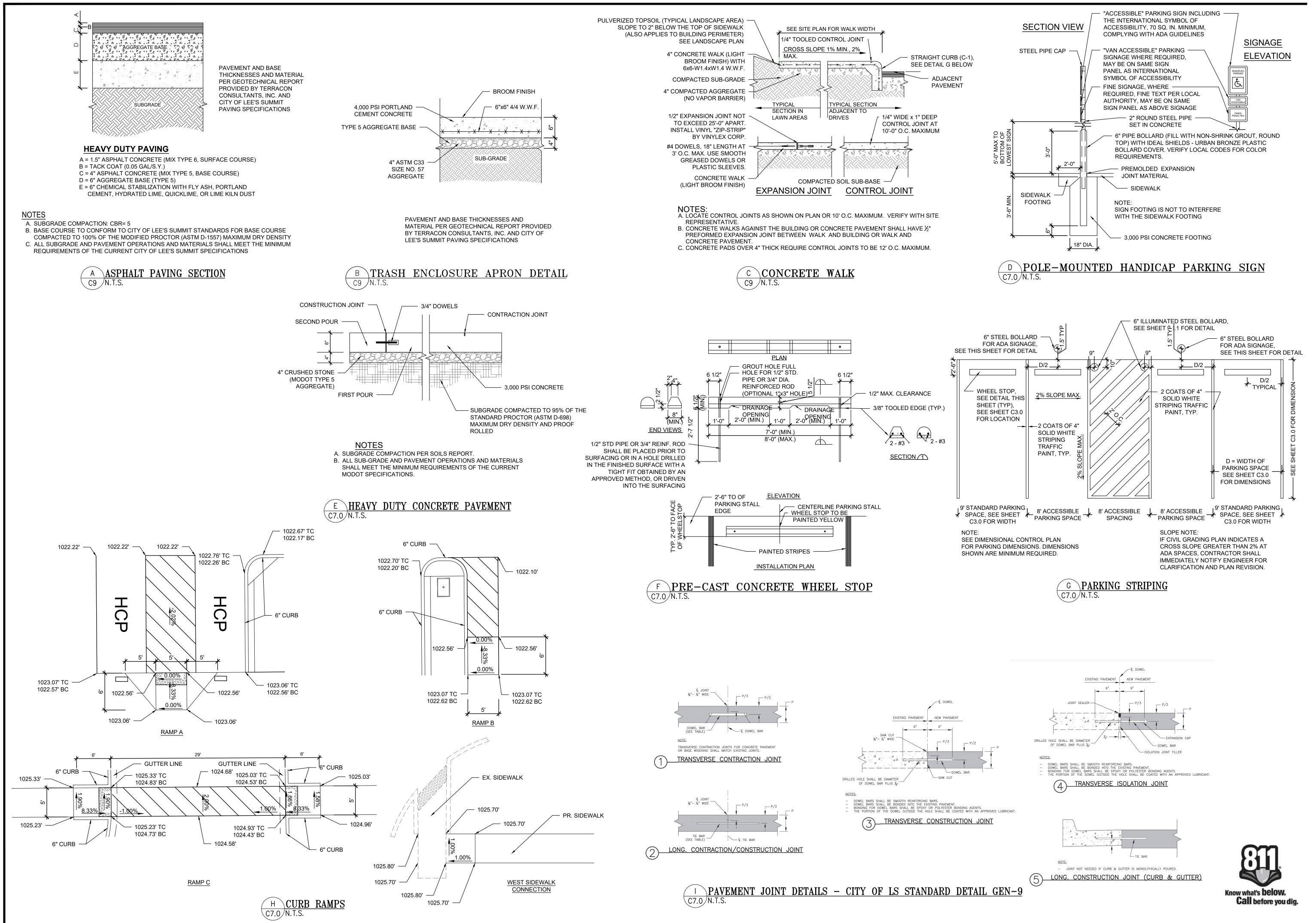
SITE UTILITY PLAN



DRAWN BY: CHECKED BY: 40497-21 PROJECT NO:

DRAWING

C-6.0



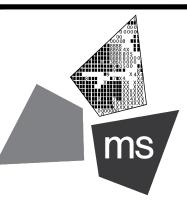
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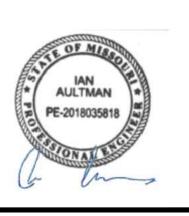
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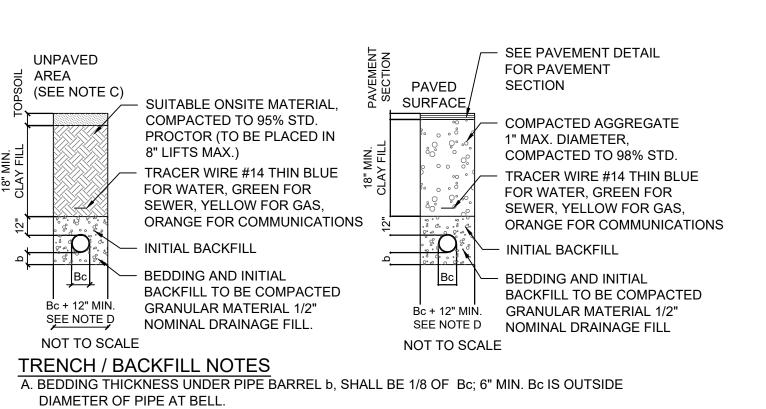
SHEET TITLE

SITE DETAILS



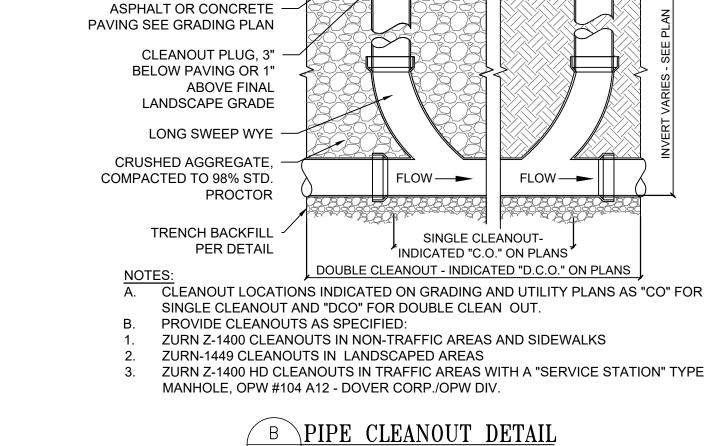
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- B. THE HAUNCH AREA OF THE PIPE MUST BE FULLY SUPPORTED; THEREFORE THE BEDDING
- MATERIAL SHALL BE HAND PLACED AND COMPACTED UNDER THE PIPE HAUNCH. C. IF UNPAVED AREA IS WITHIN 10' OF PAVEMENT OR STRUCTURE THEN FOLLOW TRENCH
- GUIDELINES FOR PAVED AREA.
- D. PIPE DIAMETER OF 4" OR SMALLER SHALL HAVE A MAXIMUM TRENCH WIDTH OF 12".
- E. BEDDING AND INITIAL BACKFILL SHALL BE SAND FOR ALL UTILITY CONDUIT CARRYING WATER, ELECTRIC, GAS, AND TELEPHONE.

# TRENCH BACKFILL DETAIL



ASPHALT PAVEMENT

THICKENED

**EDGE** 

**PAVEMENT TRANSITION** 

BASE MATERIAL

MATCH BASE MATERIAL THICKNESS

A A . A . A . A . A . A . A

PROPOSED CONCRETE PAVEMENT PER CONCRETE PAVEMENT DETAIL

SUBGRADE COMPACTED -

TO 95% MAXIMUM DRY

DENSITY (MIN.)

#3 REBAR EACH WAY -

2.5'x2.5' CONCRETE

MINIMUM)

COLLAR (8" THICKNESS

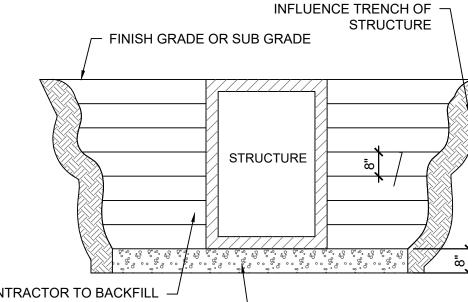
MANHOLE FOR PAVED

- INSTALL FLUSH WITH GRADE

IN LANDSCAPE AREA ONLY

- PAVEMENT OVER COMPACTED 4" PERFORATED HDPE, AASHTO M252 CLASS II, PRE-WRAPPED WITH FILTER FABRIC - (4) PER CATCH BASIN. EACH 10'-0" LONG GRAVEL BASE - DO NOT CRUSH SLOPED AT 2.0% MINIMUM BACK TO STORM STRUCTURE NON WOVEN GEOTEXTILE FABRIC OVER SOIL AT EACH FINGER DRAIN 1'-0" 1'-0" 1'-0" NOTES

A. THE INTENTION OF THE FINGER DRAIN SYSTEM IS TO PREVENT EXCESS WATER ACCUMULATION AT THE LOW POINTS IN THE GRAVEL BASE AT DRAINAGE STRUCTURES. SYSTEM TO BE INSTALLED TO ASSURE ADEQUATE DRAINAGE OF PAVEMENT BASE.



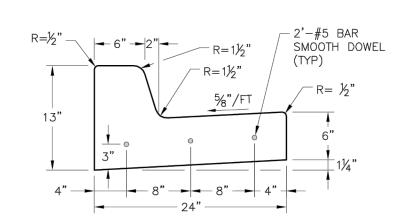
CONTRACTOR TO BACKFILL -INFLUENCE TRENCH OF STRUCTURE WITH COMPACTED GRANULAR BACKFILL, 98% STANDARD PROCTOR (FULL DEPTH).

 CONTRACTOR TO UNDERCUT STRUCTURE BASE BY 8". REPLACE WITH COMPACTED GRANULAR BACKFILL, 95% STANDARD PROCTOR

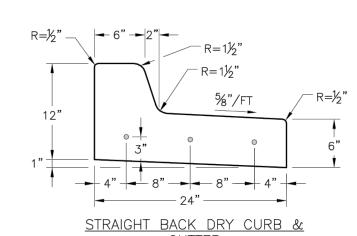
#### STRUCTURE BACKFILL NOTES

A. BACKFILL TO BE PLACED IN 8" LIFTS B. NO ON SITE FILL WILL BE ALLOWED FOR UTILITY STRUCTURES.

D STRUCTURE BACKFILL



STRAIGHT BACK CURB & (TYPE CG-1)



(TYPE CG-1 DRY)

PROVIDE EXPANSION JOINT IN

**CURB AT SLAB JOINT LOCATION** 

3 #4 DIA. CONT

MONOLITHIC CURB DETAIL

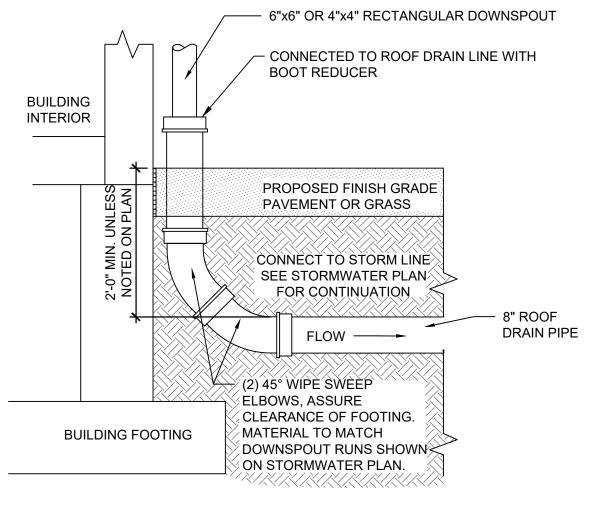
- #3 @ 18" O.C

#### **GENERAL NOTES**

E CONCRETE CURB AND GUTTER DETAIL - CITY OF LS STANDARD DETAIL GEN-4

- #3 @ 18" O.C.E.W.

- 1.  $\frac{3}{4}$ " ISOLATION JOINTS WITH 3 (2'-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
- 2. 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
- 3. CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH
- 4. KCMMB 4K CONCRETE SHALL BE USED FOR ALL CURB.
- 5. ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.
- 6. CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
- 7. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.





WIDTH AS SHOWN ON PLANS

└─ #3 BARS @ 12" O.C.E.W.

CENTERED IN SLAB

· CLASS "A" CONCRETE

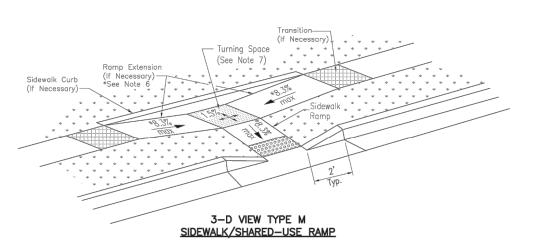
1. CONCRETE FOR SIDEWALK SHALL BE 3,000 PSI MINIMUM.

2. CONCRETE NOSE SHALL BE DOWELED INTO ADJACENT CURB

CONCRETE CURB NOSE DETAIL

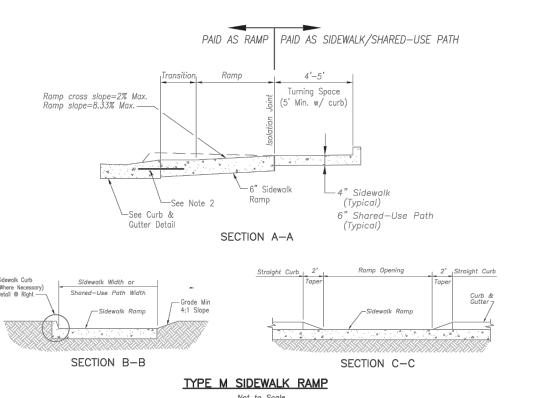
2.0% MAX. SLOPE

└─ 2" GRAVEL



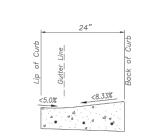
Turning Space (See Note 7)¬ Transition 5'-15' Ramp Extension See Note 9 See Note 9 (Where Sidewalk Back of Curb & Gutter —

# TYPE M SIDEWALK/SHARED—USE RAMP

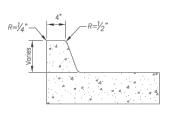


SIDEWALK/SHARED-USE PATH & SIDEWALK/SHARED-USE RAMP NOTES: 1. CURB RAMP OPENING, NOT INCLUDING FLARES, SHALL MATCH EXISTING SIDEWALK WIDTH AND OPENING

- 2. USE 18" LONG #4 EPOXY COATED TIE BARS @ 24" O.C. EMBED TIE BARS 9" IN EACH DIRECTION. 3. ALL RAMPS, SIDEWALKS, SHARED-USE PATHS SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
- 4. LONGITUDINAL JOINT SPACING TO MATCH WIDTH OF SIDEWALK.
- 5. ISOLATION JOINTS SHALL BE PLACED WHERE WALK ABUTS DRIVEWAYS AND SIMILAR STRUCTURES, AND
- ADA MAXIMUM CROSS SLOPE = 2.0%
- \*ROADWAY EXCEPTION: WHERE EXISTING ROAD PROFILE GRADE DOES NOT ALLOW RAMP TO MEET RAMP SLOPE REQUIREMENT OF 8.33% OR LESS, THE RAMP SHALL BE EXTENDED TO A LENGTH OF 15 FEET TO MATCH EXISTING SIDEWALK. CROSS SLOPE OF RAMP SHALL BE 1.5%, ±0.5%. . TURNING SPACES SHALL BE 1.5%, ±0.5%, SLOPE IN ANY DIRECTION. TURNING SPACES SHALL HAVE A
- MINIMUM 4'x4' TURNING AREA. TURNING SPACES, WITH A SIDEWALK CURB, SHALL HAVE A 5' TURNING AREA PERPENDICULAR TO THE SIDEWALK CURB. 8. FOR RETROFIT WORK, SLOPES TO BE DETERMINED IN FIELD BY CONTRACTOR AND APPROVED BY CITY
- 9. RAMP EXTENSION AREA SHALL NOT BE USED AS TRANSITION TO EXISTING SIDEWALK. ANY TRANSITIONS REQUIRED TO MATCH RAMPS TO EXISTING SIDEWALK SHALL REQUIRE REMOVAL AND REPLACEMENT OF ADDITIONAL SIDEWALK BEYOND THE RAMP AREA. SIDEWALK TRANSITION LENGTH SHALL BE EQUAL TO OR GREATER THAN THE WIDTH OF THE EXISTING SIDEWALK. RAMP EXTENSIONS SHALL BE A
- 10. ALL SIDEWALK AND RAMP CONSTRUCTION SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).



CURB & GUTTER DETAIL AT RAMP Not to Scale



R | SIDEWALK RAMP

<u>LEGEND</u>

SIDEWALK CURB DETAIL

TRANSITION

J ADA RAMP RETROFIT DETAIL - CITY OF LS STANDARD DETAIL GEN-3A





GRADE

AULTMAN PE-2018035818

REVISION/DATE/DESCRIPTION

09/13/21

01/24/22

02/24/22

03/29/22

06/29/22

08/30/22

SIR UPDATES

PDP APPLICATION

RESPONSE TO CITY

DEVELOPMENT SET

COMMENTS I

RESPONSE TO

NOTICE

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OR DUPLICATION MAY BE MADE

WITHOUT PRIOR WRITTEN CONSENT OF THE ARCHITECT. ALL COMMON LAW RIGHTS OF COPYRIGHT AND

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ms consultants, inc.

engineers, architects, planners

PROPOSED PT20M

LEE'S SUMMIT, MO 64082

NEQ HWY 150 & SW HOLLYWOOD DR.

Columbus, Ohio 43229-1547

2221 Schrock Road

phone 614.898.7100

fax 614.898.7570

BUILDING

SHEET TITLE

SITE DETAILS

PROJECT

MENT WITH THE ARCHITECT.

CALLY RESERVED.

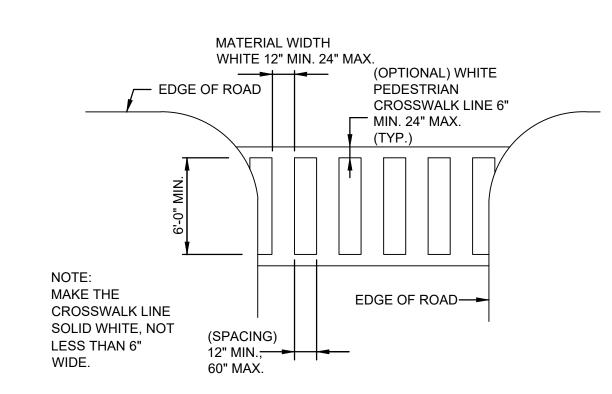
FDP COMMENTS

60% SET

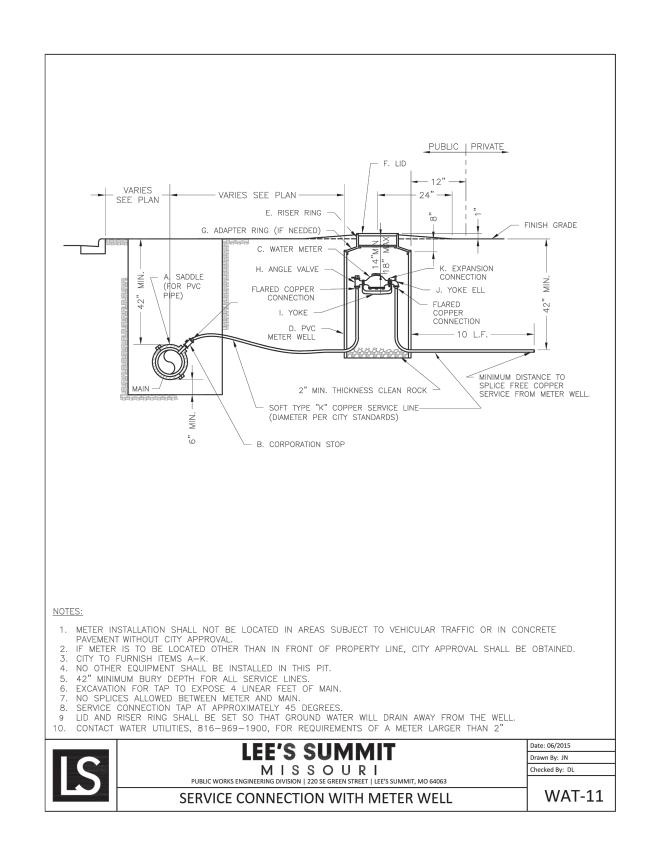
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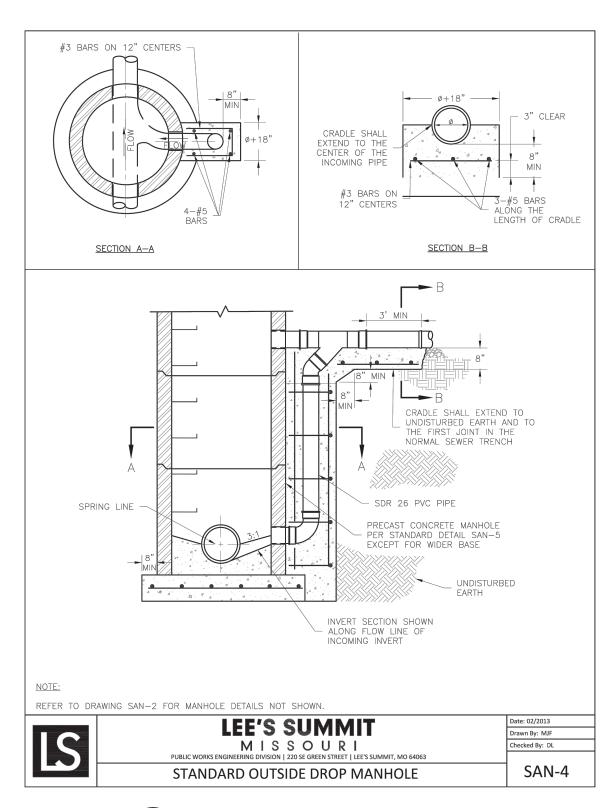




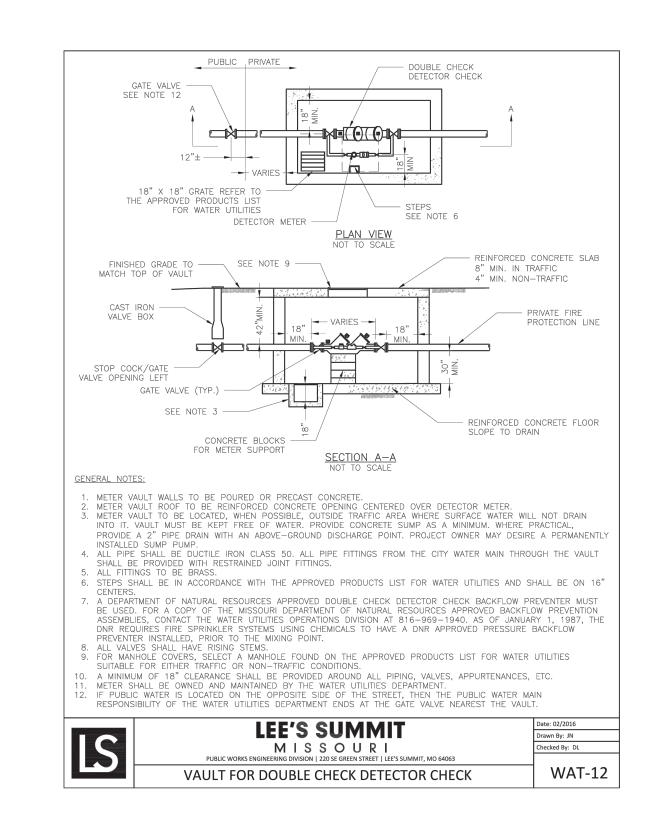
D SIDEWALK CROSSING DETAIL C7.2 N.T.S.



# B SERVICE CONNECTION/METER WELL C7.2 N.T.S.

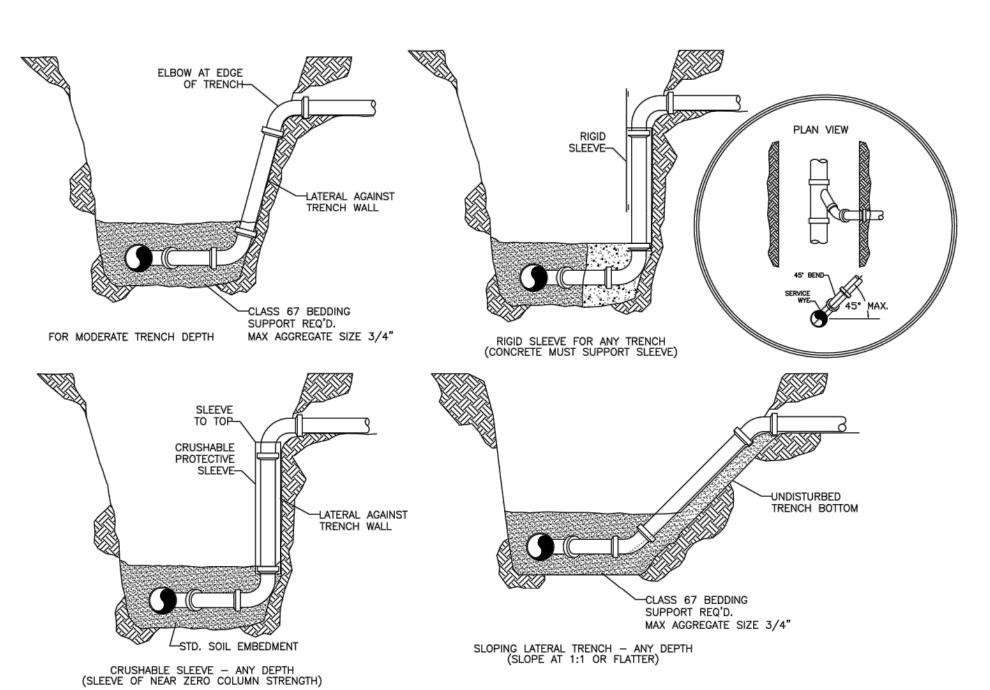


E STANDARD DROP MANHOLE DETAIL C7.2 N.T.S.



C VAULT FOR DOUBLE CHECK DETECTOR CHECK C7.2 N.T.S.

# SANITARY SEWER SERVICE WYE







REVISION/DATE/DESCRIPTION

09/13/21

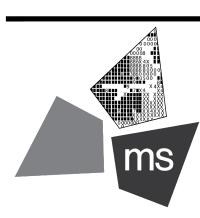
SIR UPDATES

01/24/22 60% SET PDP APPLICATION 02/24/22 RESPONSE TO CITY 03/29/22 COMMENTS I 06/29/22 DEVELOPMENT SET RESPONSE TO 08/30/22 FDP COMMENTS

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PROJECT

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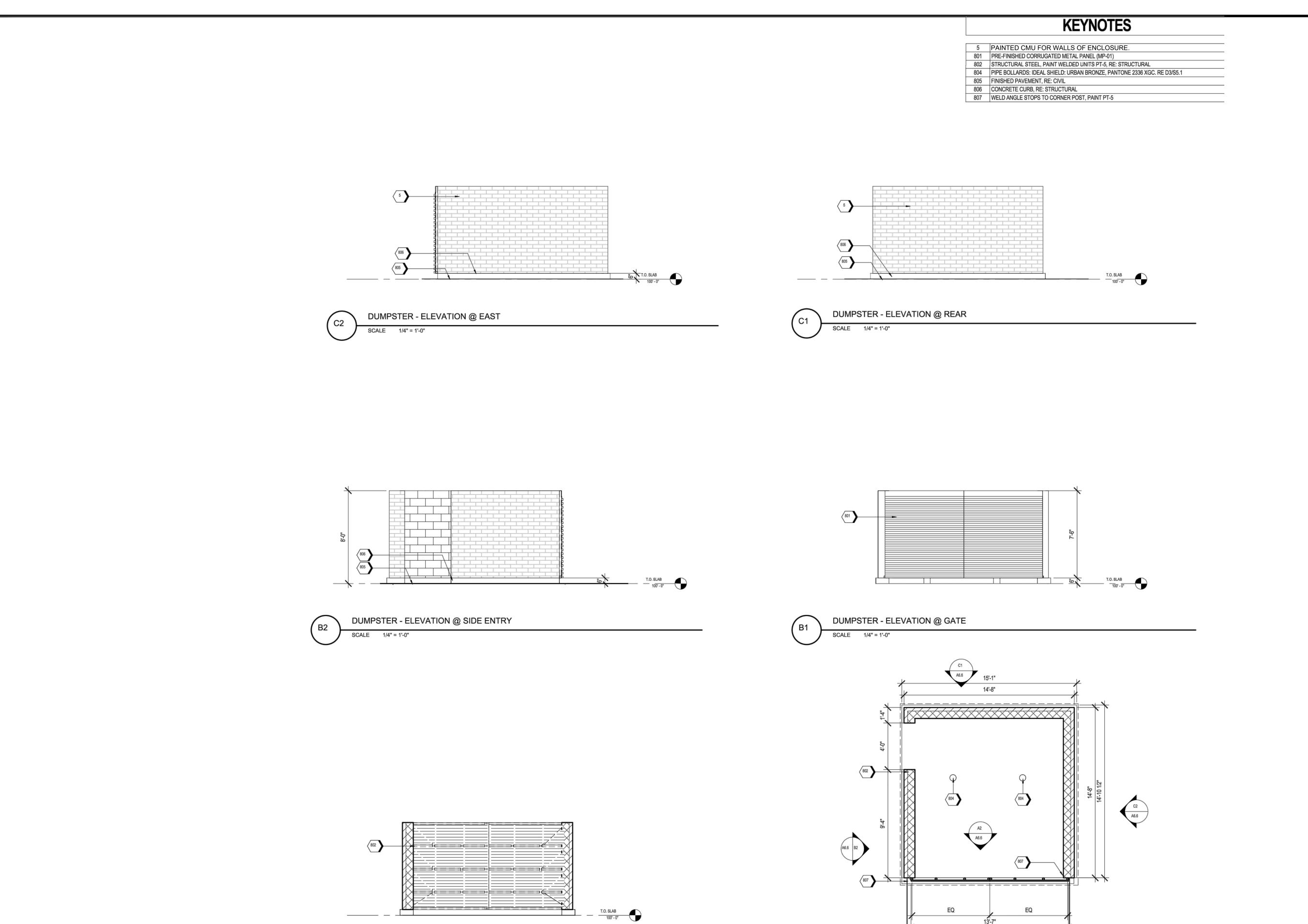
SHEET TITLE

SITE DETAILS



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DUMPSTER - GATE INSIDE FACE

SCALE 1/4" = 1'-0"



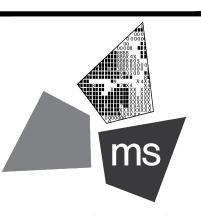
REVISION/DATE/DESCRIPTION

SIR UPDATES	09/13/21
60% SET	01/24/22
PDP APPLICATION TO CITY	02/24/22
RESPONSE TO CITY COMMENTS I	03/29/22
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RESPONSE TO FDP COMMENTS	08/30/22

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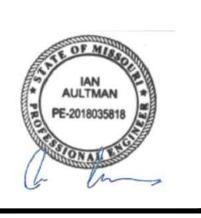
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DRAWING

C-7.3

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

14'-0"

DUMPSTER - ENLARGED

SCALE 1/4" = 1'-0"

PROJECT NO.

PROJECT INFORMATION



## WHATABURGER - LEES SUMMIT (2)

#### MC-3500 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-3500.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LEVEL LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F
  "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBE
  LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2)
  MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-NEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:

  TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING
- STACKING LUGS.

  TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".

  1 TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/ET/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- 8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:

  1 THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.

  1 THE STRUCTURAL EVALUATION SHALL DEMONISTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTIM P2787 AND SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.

  1 THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTIM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

#### LEES SUMMIT, MO IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

- STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A
  PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- 2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.
  STORMTECH RECOMMENDS 3 BACKFILL METHODS:
  STONESHOOTER LOCATED OFF THE CHAMBER BED.
  BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
  BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- 6. MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- 7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4
- 9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF. NOTES FOR CONSTRUCTION EQUIPMENT
- 1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:

  NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.

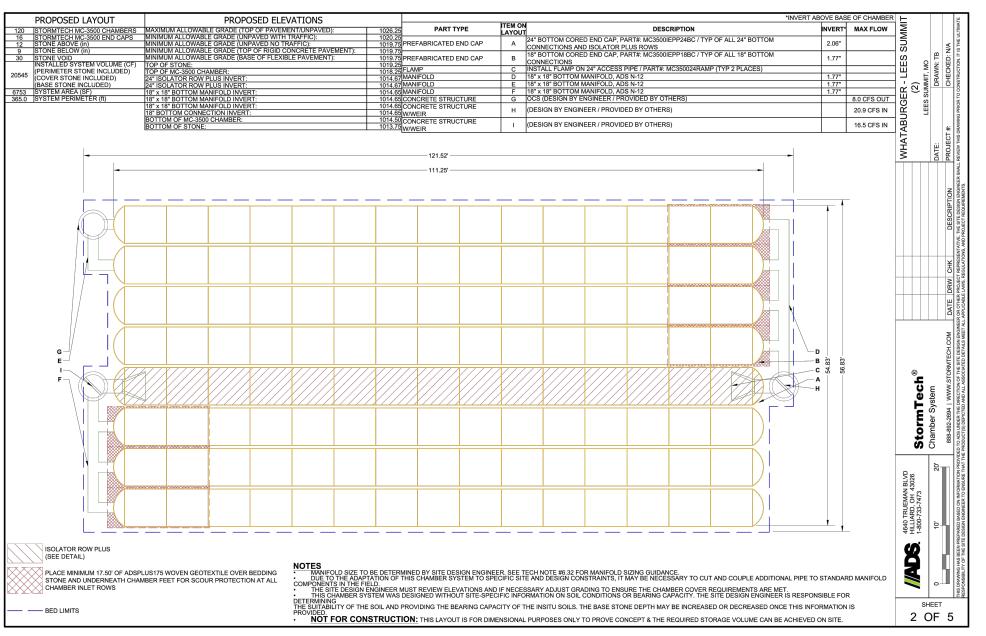
  NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".

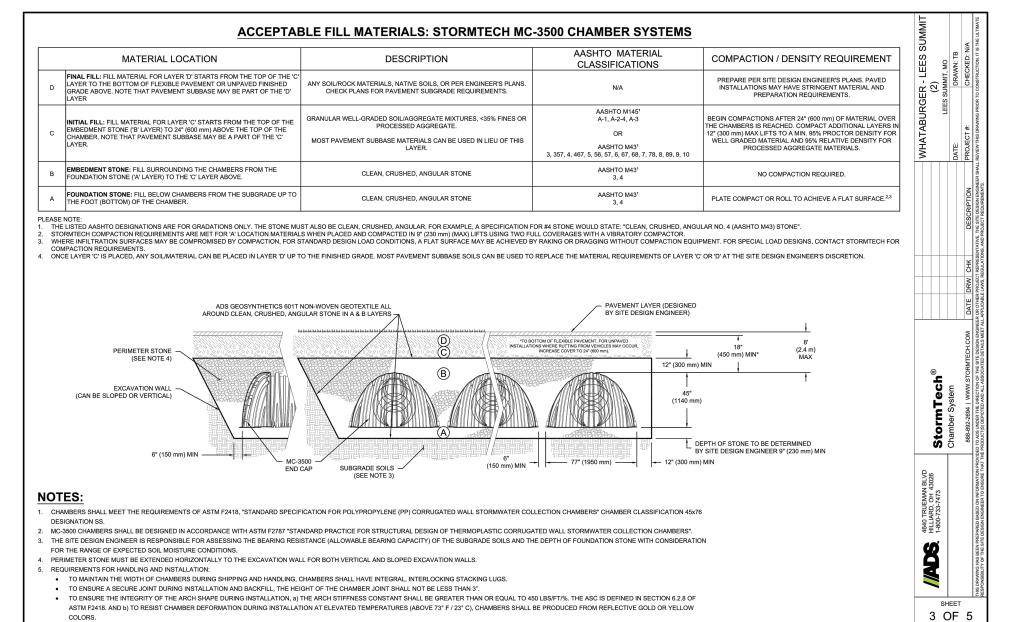
  WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".

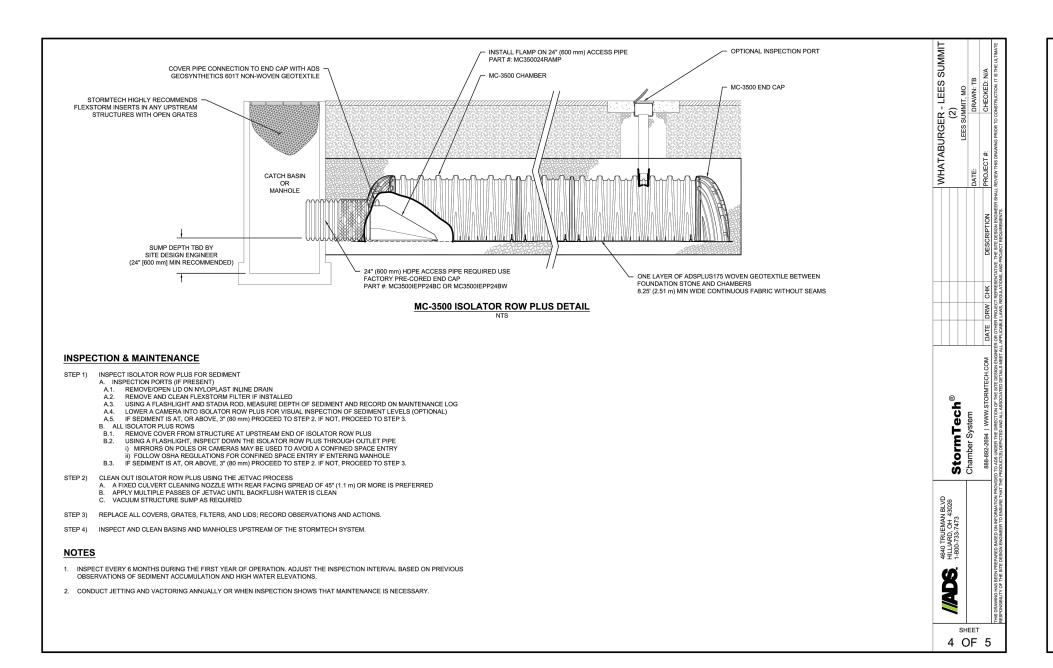
## 3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

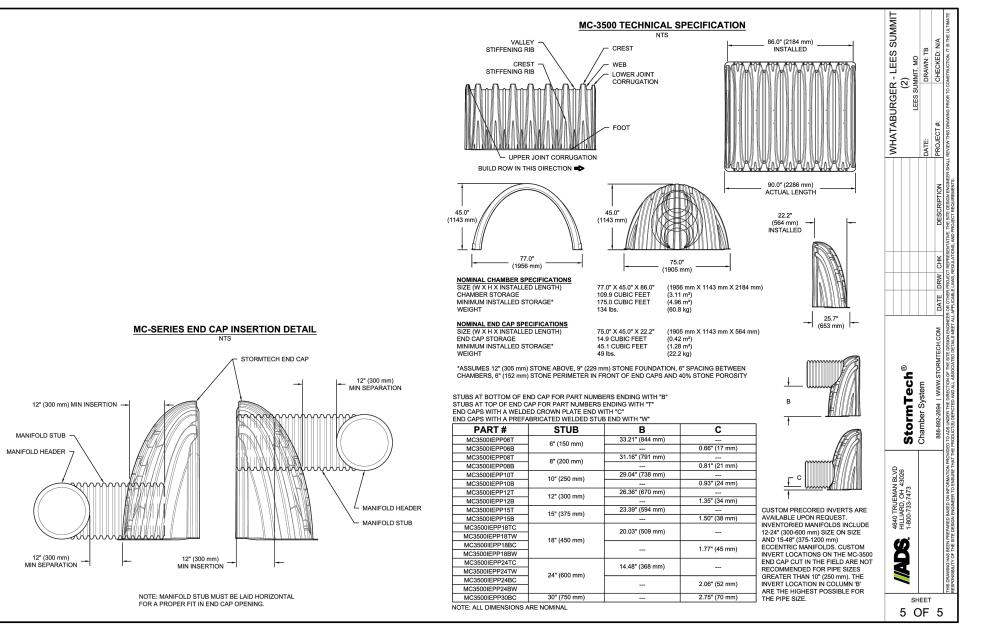
## USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.











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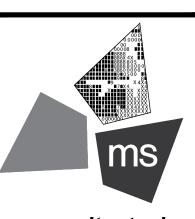
SIR UPDATES 09/13/21 01/24/22 60% SET PDP APPLICATION 02/24/22 TO CITY RESPONSE TO CITY 03/29/22 06/29/22 DEVELOPMENT SET RESPONSE TO 08/30/22

FDP COMMENTS

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PROJECT

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NEQ HWY 150 & SW HOLLYWOOD DR. LEE'S SUMMIT, MO 64082

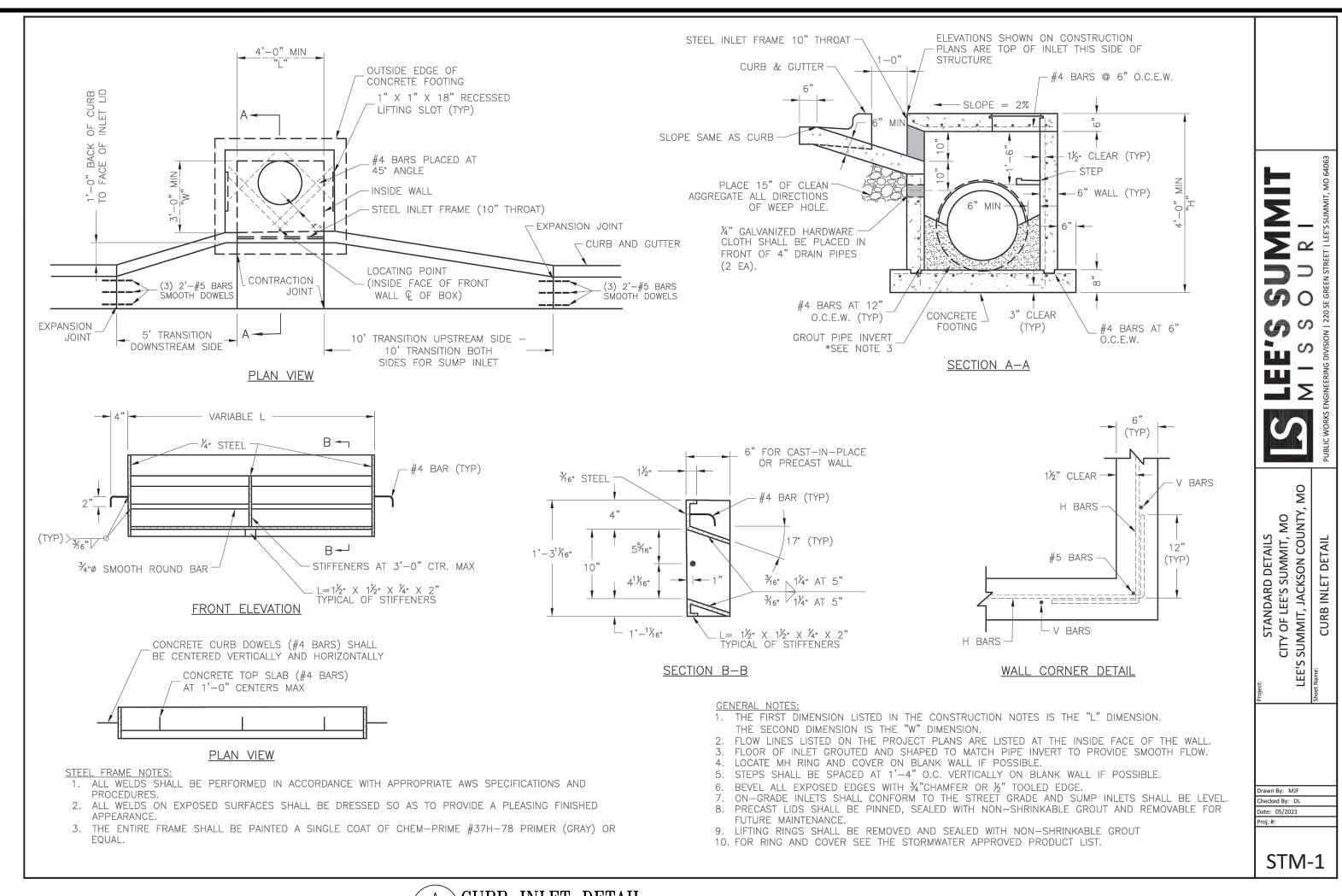
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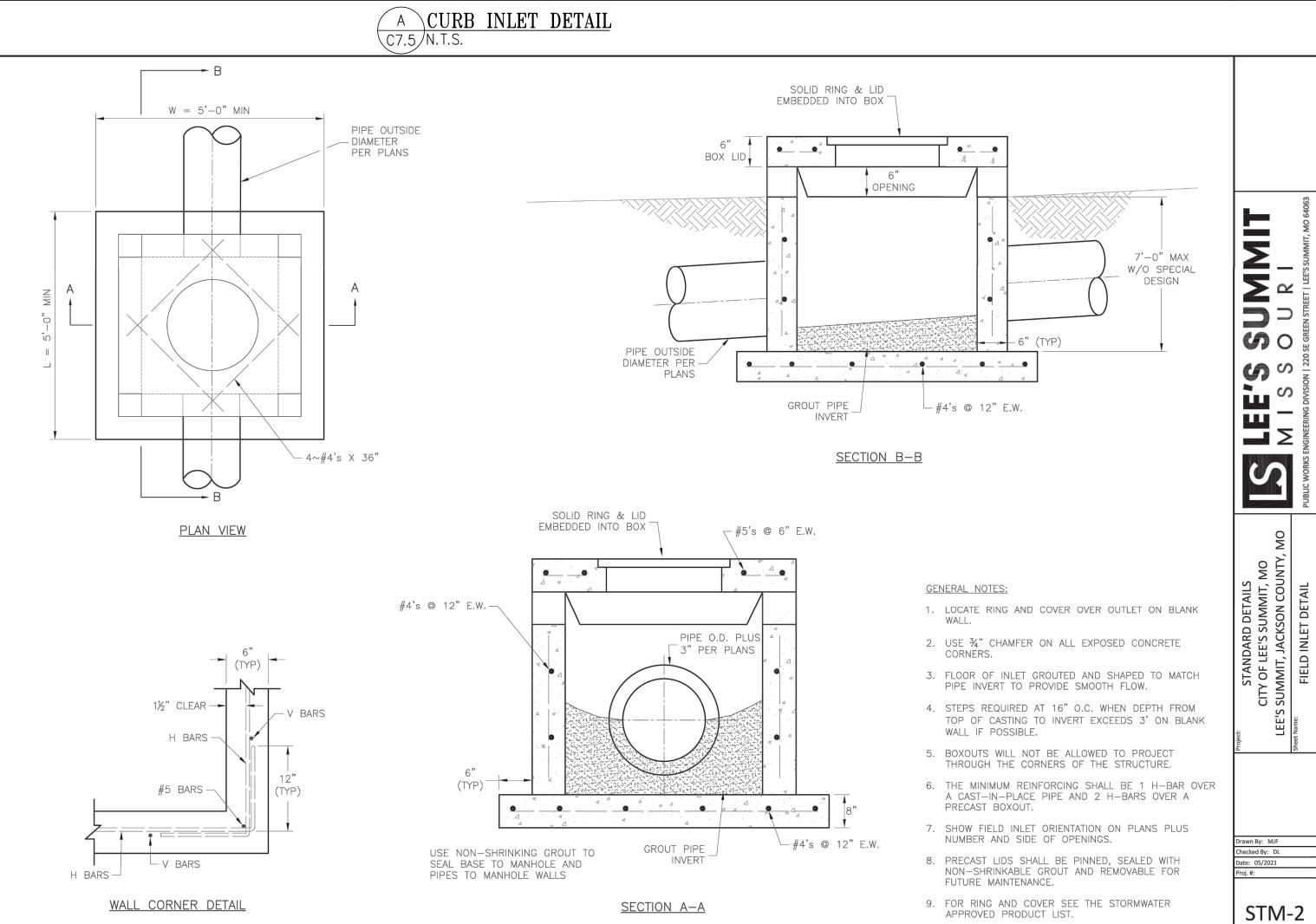
**DETENTION BASIN** DETAILS



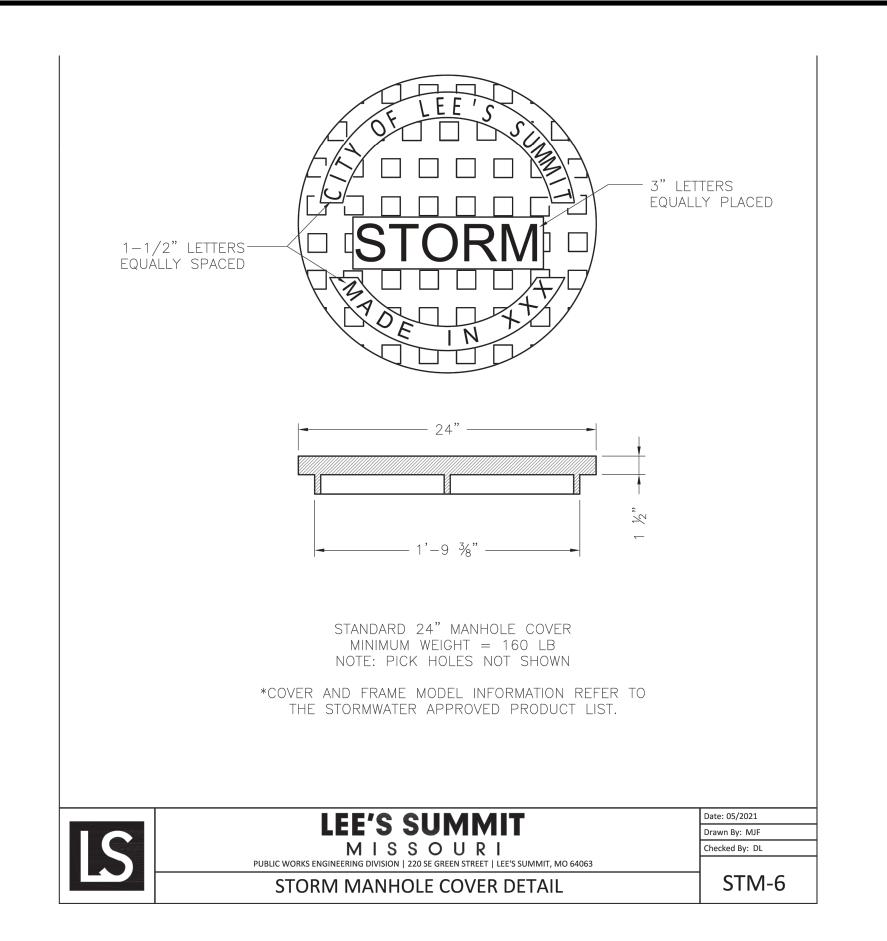
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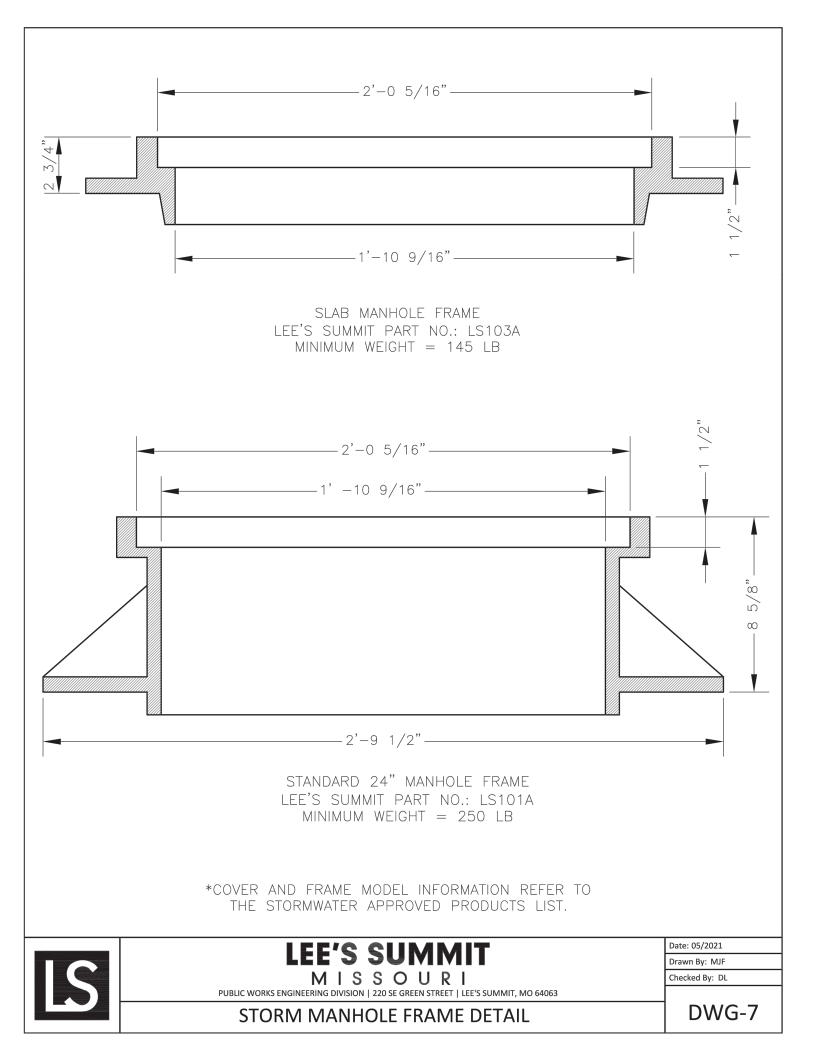




B FIELD INLET DETAIL



C STORM MANHOLE COVER DETAIL C7.5 N.T.S.



D STORM MANHOLE FRAME DETAIL C7.5 N.T.S.

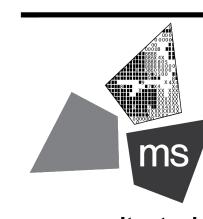


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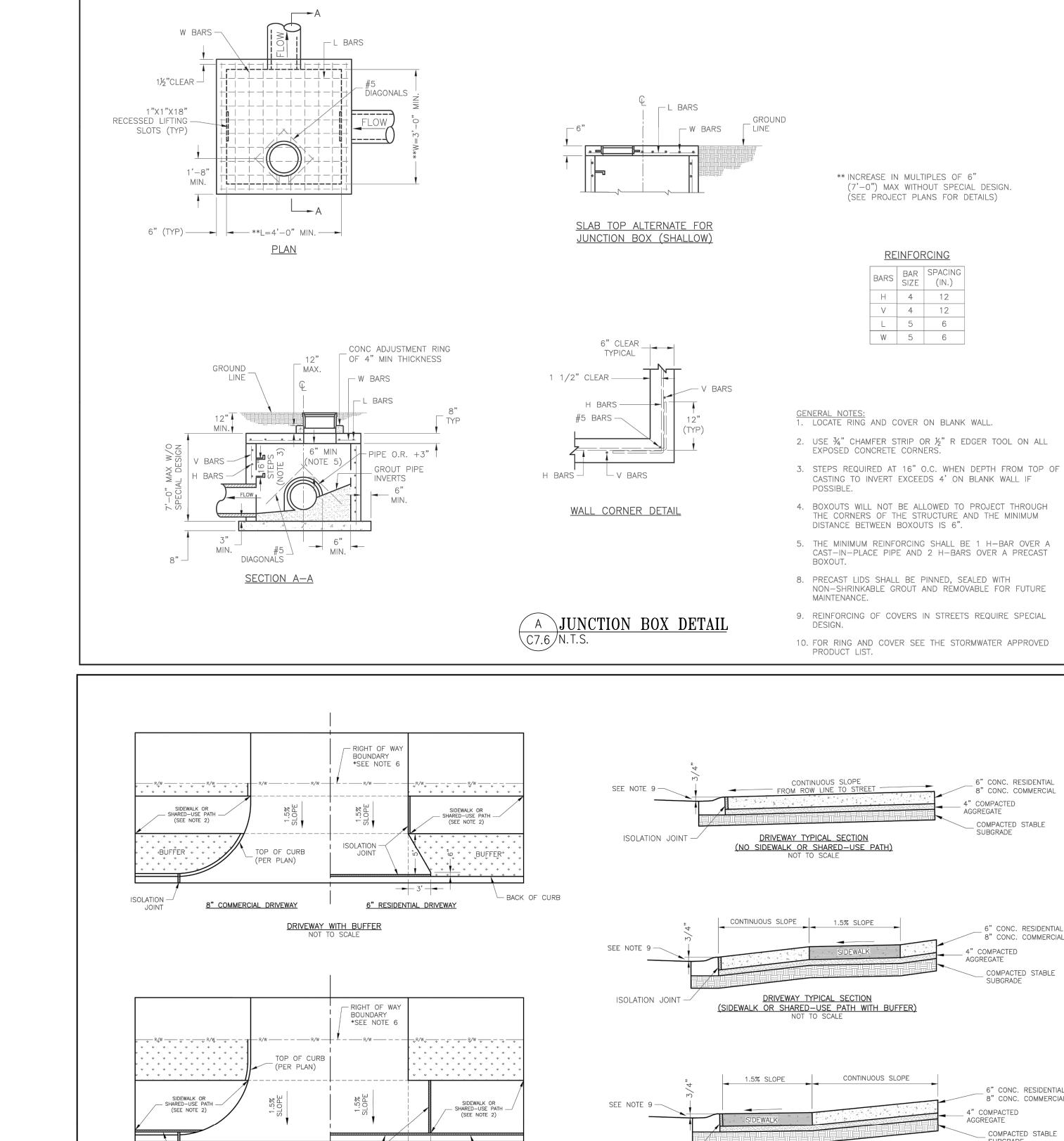
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SHEET TITLE SITE DETAILS



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JOINT

DRIVEWAY WITHOUT BUFFER
NOT TO SCALE

GENERAL NOTES

1. SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE. ALL DRIVE APPROACHES SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG) FOR SLOPE

REQUIREMENTS WHEN SIDEWALK IS REQUIRED (SEE ADA RAMP RETROFIT DETAIL GEN-3B, SIDEWALK/SHARED USE PATH RAMP AT

RESIDENTIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, KCMMB 4K CONCRETE MIX IS RECOMMENDED. OTHER CONCRETE MIXES

NEEDS TO BE APPROVED BY CITY INSPECTOR. A JOINT MUST BE INSTALLED AT THE RIGHT OF WAY BOUNDARY FOR PROPERTY DELINEATION. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

3/4" FROM TOP OF CURB TO FLOWLINE AT DRIVEWAY (TYPE CG-1 CURB ONLY). MUST MAINTAIN ORIGINAL FLOWLINE OF CURB.

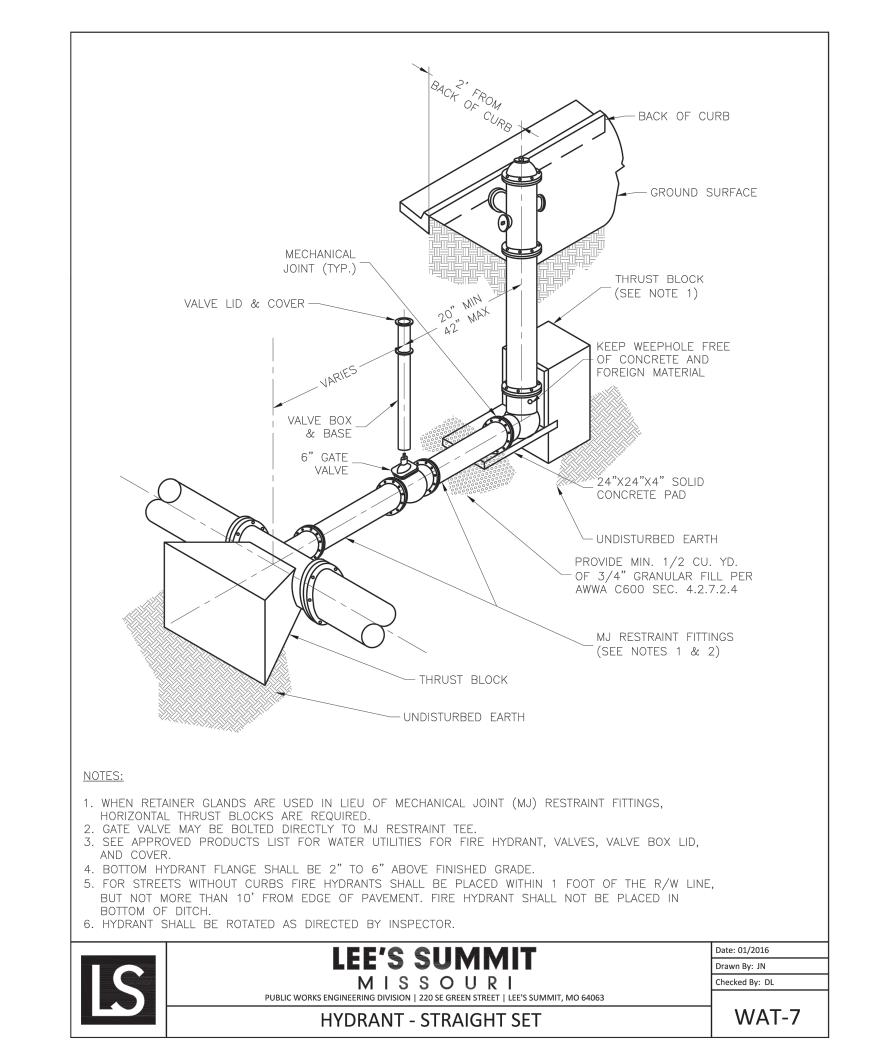
6" RESIDENTIAL DRIVEWAY

ISOLATION  $^{-1}$ 

8" COMMERCIAL DRIVEWAY

JOINT AT BACK OF CURB LINE SHALL BE AN ISOLATION JOINT FOR RESIDENTIAL DRIVEWAYS.
KCMMB 4K CONCRETE MIX IS REQUIRED FOR ALL CURBS.
COMMERCIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, SHALL BE KCMMB 4K CONCRETE MIX.

O. SIDEWALK ADJOINING CURB SHALL BE 6" THICK, EXTENDING 3' FROM THE DRÍVEWAY. 1. THE MAXIMUM WIDTH OF A RESIDENTIAL DRIVEWAY IS 36 FEET WITHIN THE RIGHT OF WAY.



**(1)** 0

STM-3

**(**0 0

S S

S S

GEN-1

7777

6" CONC. RESIDENTIAL

COMPACTED STABLE

6" CONC. RESIDENTIAL 8" CONC. COMMERCIAL

\_ COMPACTED STABLE SUBGRADE

6" CONC. RESIDENTIAL

8" CONC. COMMERCIAL

COMPACTED STABLE SUBGRADE

4" COMPACTED AGGREGATE

4" COMPACTED

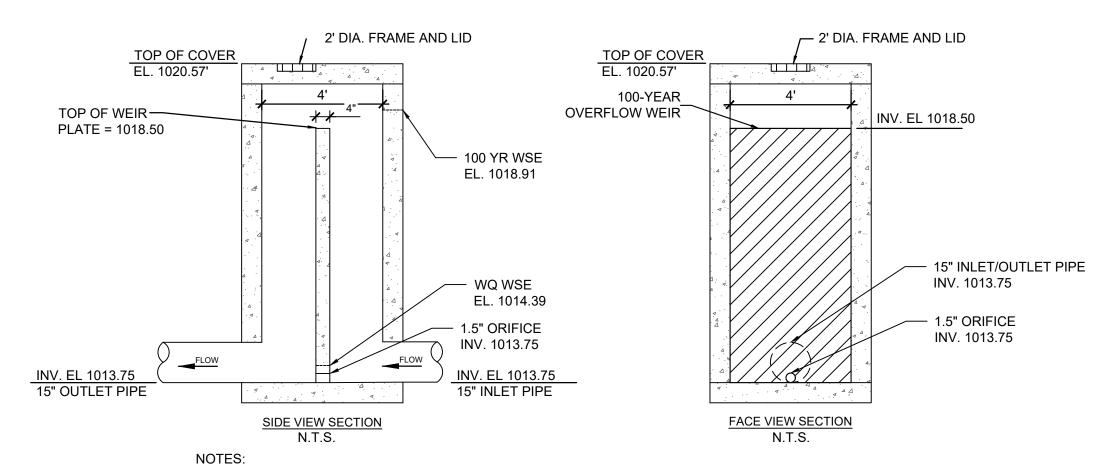
SUBGRADE

AGGREGATE

AGGREGATE

8" CONC. COMMERCIAL

B FIRE HYDRANT DETAIL C7.6 N.T.S.



1. CONTROL STRUCTURE SHALL BE A STANDARD FLDOT MANHOLE, MODIFIED AS SHOWN. 2. PROVIDE MANHOLE STEPS ON ACCESS SIDE OF WEIR WALL.

O OUTLET CONTROL STRUCTURE
C7.6 N.T.S.



REVISION/DATE/DESCRIPTION

SIR UPDATES

FDP COMMENTS

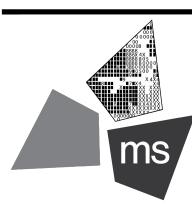
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09/13/21

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SITE DETAILS



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C-7.6

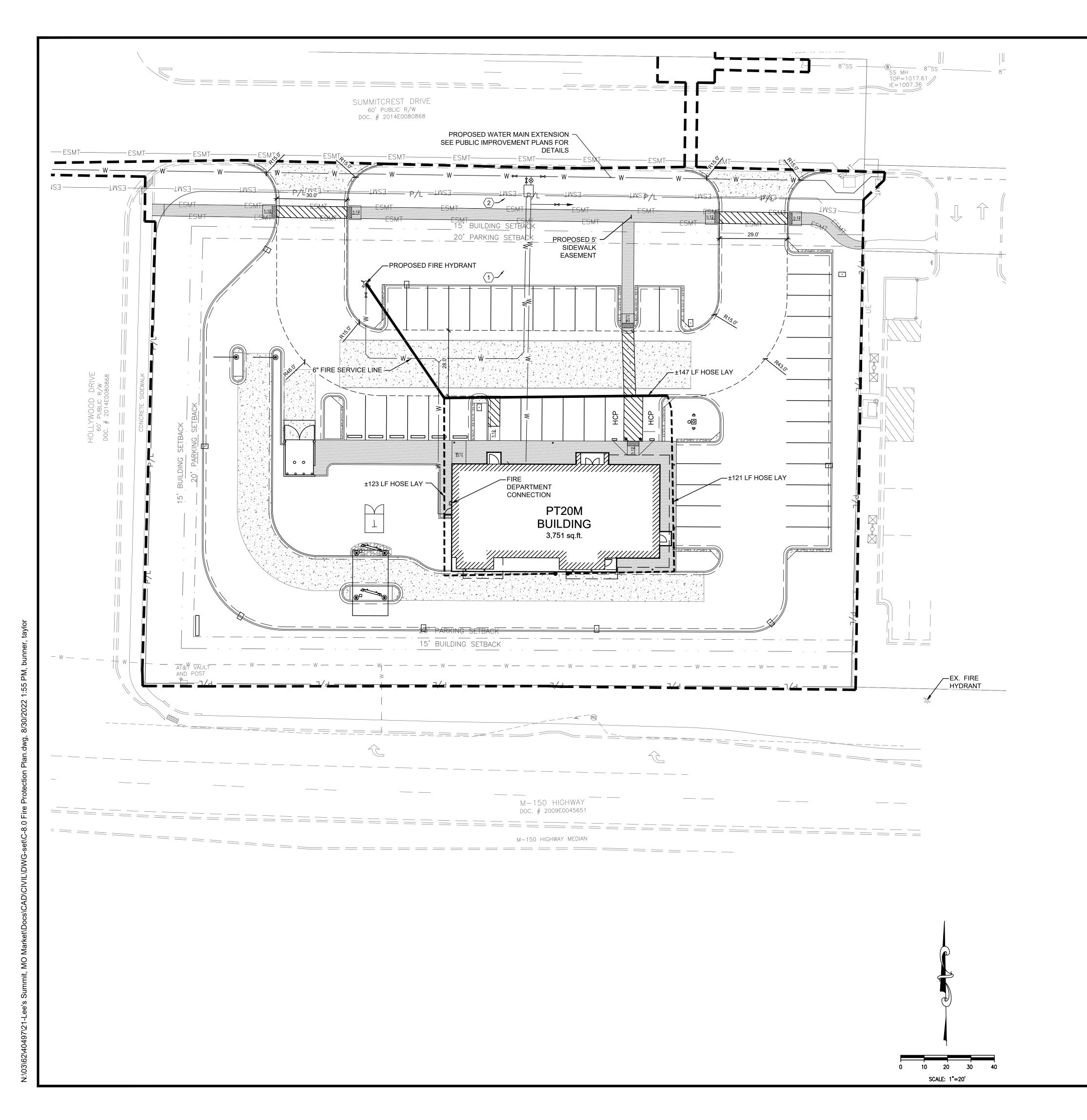
C ENTRANCE DETAIL N.T.S.

ISOLATION JOINT —

DRIVEWAY TYPICAL SECTION

(SIDEWALK OR SHARED-USE PATH WITHOUT BUFFER)

NOT TO SCALE



## **GENERAL NOTES:**

DETAILS SHOWN ON THIS SHEET ARE SCHEMATIC. CONTRACTOR TO CONFIRM MARKINGS CONFORM TO ALL CODES AND REGULATIONS.

FIRE HOSE TRUCK LAY

## **LEGEND**

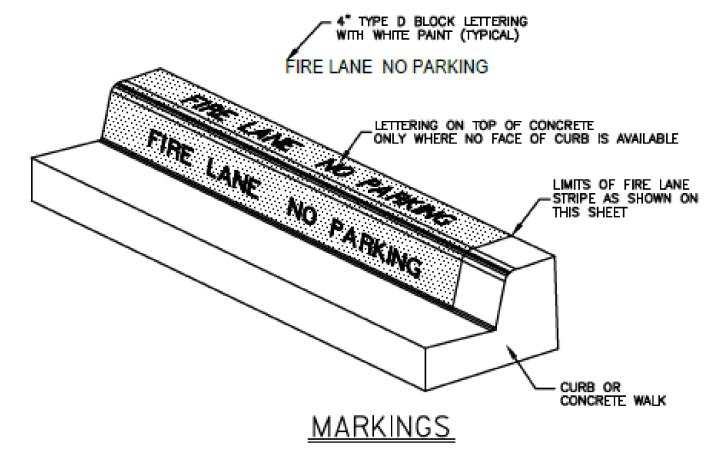
EXISTING PROPOSED DESCRIPTION

PROPERTY LINE

FIRE HYDRANT

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FIRE LANE

FIRE HOSE HAND LAY

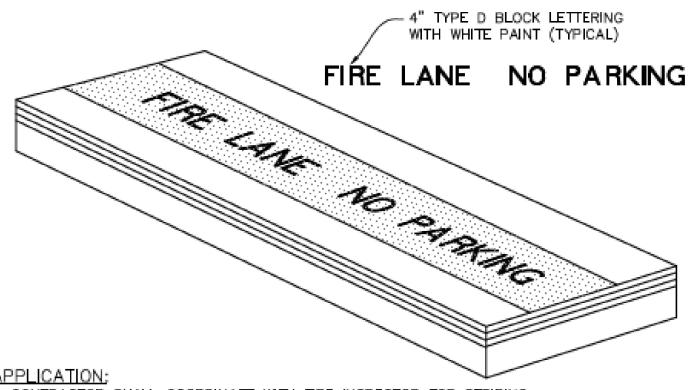


#### APPLICATION:

- ON 6" CURB: PAINT RED LANE STRIPE ON BOTH FACE AND TOP OF CURB PAINT WHITE LETTERS ON FACE OF CURB ONLY
- LOW CURB (HEADER CURB) OR CONCRETE PAVEMENT: PAINT RED LANE STRIPE AND WHITE LETTERS ON TOP OF CURB
- 3. 15 FEET SPACING BETWEEN THE BEGINNING OF THE WHITE LETTERING.

## FIRE LANE STRIPING DETAIL

NOT-TO-SCALE



1. CONTRACTOR SHALL COORDINATE WITH FIRE INSPECTOR FOR STRIPING LOCATIONS

PAINT A 6" WIDE RED STRIPE LOCATED 3" OFF EDGE OF PAVEMENT WITH 4" WHITE LETTERING ON RED STRIPE.
 SEE SITE, STRIPING AND DIMENSIONAL CONTROL PLAN FOR CURB TYPES & LOCATIONS.

4. 15 FOOT SPACING BETWEEN THE BEGINNING OF THE WHITE LETTERING.

TYPICAL FIRE LANE MARKING DETAIL

NOT TO SCALE

## **KEYED NOTES:**

6" FIRE SERVICE LINE.

2 PROPOSED BACKFLOW PREVENTER.



#### REVISION/DATE/DESCRIPTION

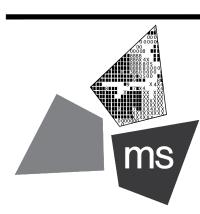
FDP COMMENTS

SIR UPDATES	09/13/21
60% SET	01/24/22
PDP APPLICATION TO CITY	02/24/22
RESPONSE TO CITY COMMENTS I	03/29/22
FINAL DEVELOPMENT SET	06/29/22
RESPONSE TO	00/20/22

#### NOTICE

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ms consultants, inc. engineers, architects, planners 2221 Schrock Road Columbus, Ohio 43229-1547 phone 614.898.7100 fax 614.898.7570

PROJECT

PROPOSED PT20M BUILDING

NEQ HWY 150 & SW HOLLYWOOD DR. LEE'S SUMMIT, MO 64082

SHEET TITLE

FIRE PROTECTION PLAN



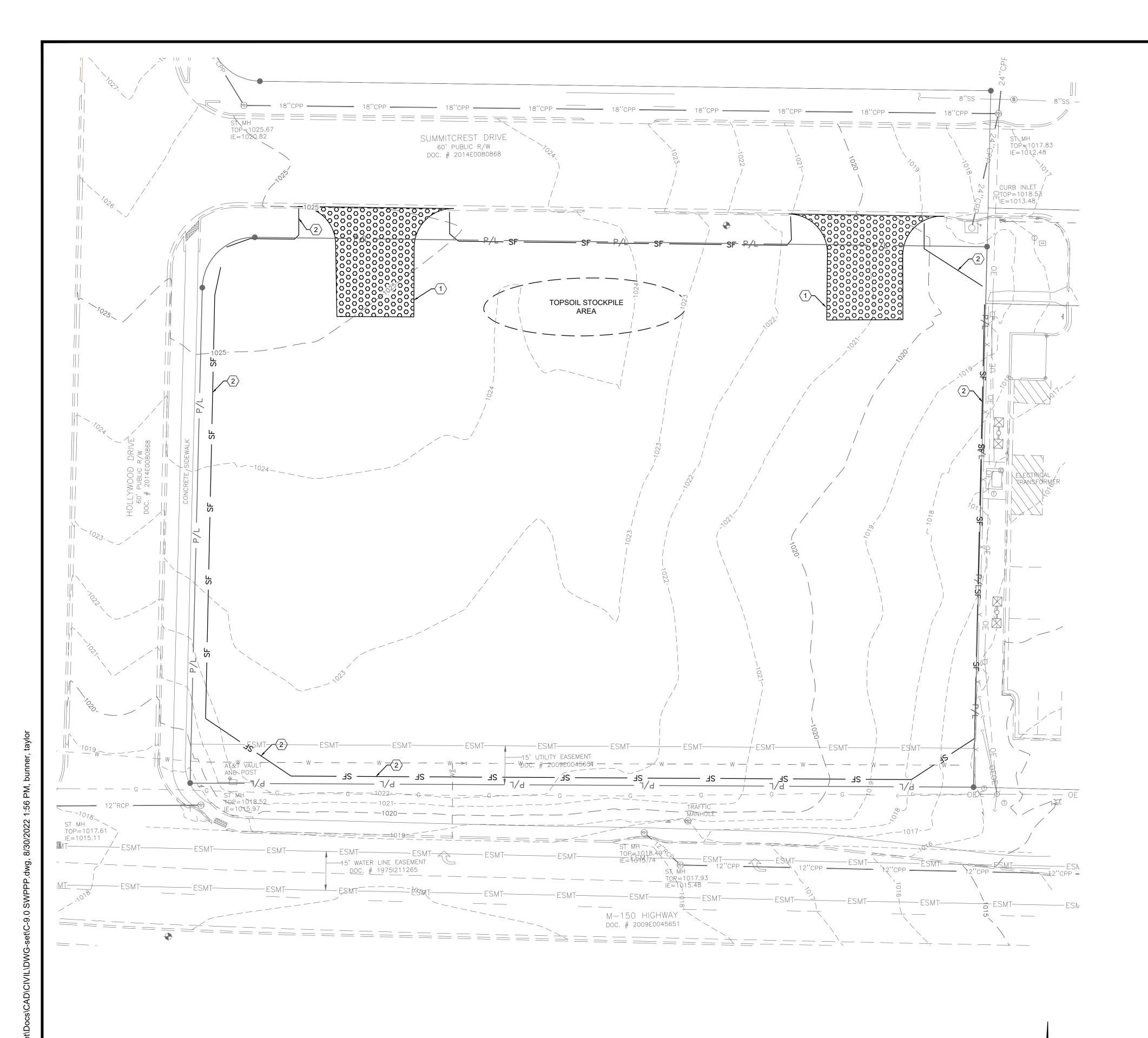
DRAWN BY: TDB

CHECKED BY: PGD

PROJECT NO: 40497-21

DRAWING

C-8.0





(1) CONSTRUCTION ENTRANCE. SEE DETAIL ON SHEET C-10.2.

(2) TEMPORARY SILT FENCE, SEE DETAIL ON SHEET C-10.2.

CONSTRUCTION SEQUENCE
THE ORDER OF MAJOR ACTIVITIES WILL BE AS FOLLOWS:

1. PRE-CONSTRUCTION MEETING

2. BEFORE ANY SITE GRADING ACTIVITIES BEGIN

a. INSTALL PERIMETER SILT FENCESb. INSTALL INLET PROTECTING ON EXISTING INLETS

c. CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCES

\*ALL CONSTRUCTION SHALL FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813. WHERE DISCREPANCIES EXIST BETWEEN THESE PLANS AND THE DESIGN AND CONSTRUCTION MANUAL, THE DESIGN AND CONSTRUCTION MANUAL SHALL PREVAIL.

\*THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.

## **LEGEND**

SCALE: 1"=20'



REVISION/DATE/DESCRIPTION

FDP COMMENTS

 SIR UPDATES
 09/13/21

 60% SET
 01/24/22

 PDP APPLICATION TO CITY
 02/24/22

 RESPONSE TO CITY COMMENTS I
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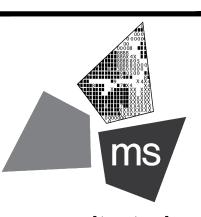
 FINAL DEVELOPMENT SET
 06/29/22

 RESPONSE TO
 08/20/23

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PROPOSED PT20M BUILDING

NEQ HWY 150 & SW HOLLYWOOD DR. LEE'S SUMMIT, MO 64082

SHEET TITLE

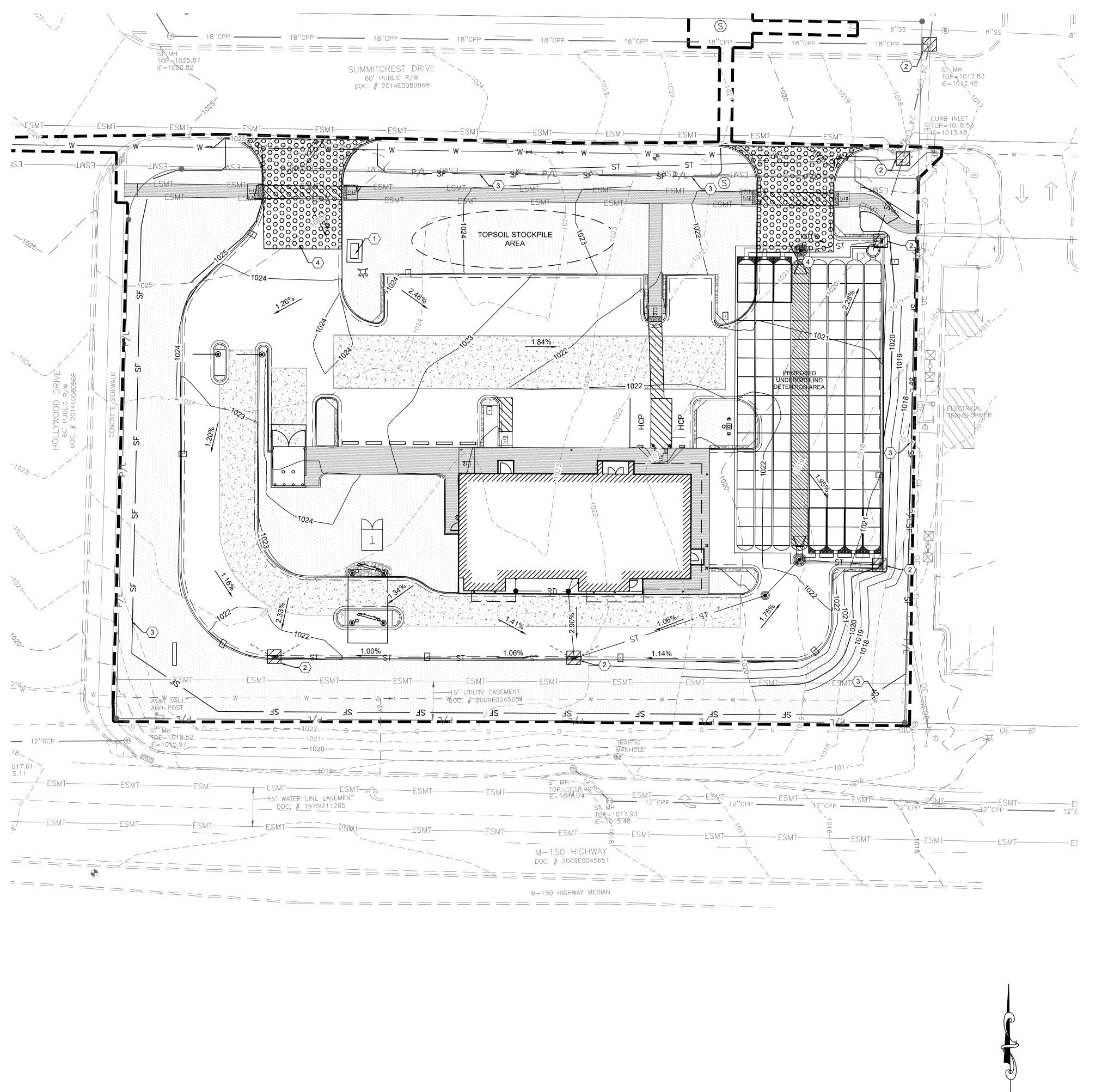
STORMWATER
POLLUTION
PREVENTION PLAN
PRE
CONSTRUCTION



DRAWN BY: TDE
CHECKED BY: PGD
PROJECT NO: 40497-21

DRAWING

C-9.0



## **KEYED NOTES:**

- (1) CONCRETE WASHOUT, SEE DETAIL ON SHEET C-10.2.
- 2) INLET PROTECTION. SEE DETAILS ON SHEET C-10.3.
- (3) TEMPORARY SILT FENCE. SEE DETAIL ON SHEET C-10.2.
- (4) CONSTRUCTION ENTRANCE. SEE DETAIL ON SHEET C-10.2.

#### CONSTRUCTION SEQUENCE

THE ORDER OF MAJOR ACTIVITIES WILL BE AS FOLLOWS:

#### 1. BEGIN SITE GRADING AND TOPSOIL STRIPPING

- a. ESTABLISH TOPSOIL STOCK PILE WITHIN SILT FENCE PERIMETER
  b. STABILIZE DENUDED AREAS AND STOCKPILES WITHIN 14 DAYS OF LAST CONSTRUCTION ACTIVITY IN THAT AREA
  c. INSTALL EROSION CONTROL MATTING AT LOCATIONS INDICATED ON PLAN
- 2. INSTALL UTILITIES, SANITARY SEWERS, WATER SERVICES, AND STORM SEWERS
- 3. BEGIN CONSTRUCTION OF BUILDING FOUNDATION AND STRUCTURE
- 4. INSTALL CURBS, PREPARE PAVEMENT SUBGRADE AND PROVIDE GOOD AGGREGATE BASE TO AREAS TO BE PAVED
- 5. PAVE AREAS AND EXTERIOR BUILDING CONSTRUCTION
- 6. FINAL GRADING AND PERMANENT SEEDING OF NON-PAVED AREAS OF THE SITE WITHIN 7 DAYS OF FINISHING FINAL GRADE
- 7. ONCE 70% VEGETATIVE COVERAGE IS ACHIEVED, REMOVE EROSION PROTECTION

\*ALL CONSTRUCTION SHALL FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813. WHERE DISCREPANCIES EXIST BETWEEN THESE PLANS AND THE DESIGN AND CONSTRUCTION MANUAL, THE DESIGN AND CONSTRUCTION MANUAL SHALL PREVAIL.

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## **LEGEND**

SCALE: 1"=20'

EXISTING	PROPOSED	DESCRIPTION
950	1015	CONTOUR
	SF	SILT FENCE
		INLET PROTECTION
		CONCRETE WASHOUT
	000000	CONSTRUCTION ENTRANCE
		PERMANENT STABILIZATION AREA



#### REVISION/DATE/DESCRIPTION

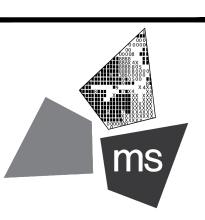
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PROJECT

PROPOSED PT20M BUILDING

NEQ HWY 150 & SW HOLLYWOOD DR. LEE'S SUMMIT, MO 64082

SHEET TITLE

STORMWATER
POLLUTION
PREVENTION PLAN
DURING AND POST
CONSTRUCTION



DRAWN BY: TDB

CHECKED BY: PGD

PROJECT NO: 40497-21

DRAWING

C-9.1

PROJECT NAME AND LOCATION WHATABURGER NWQ HWY 150 & HOLLYWOOD ST LEE'S SUMMIT, MO 64802			
OWNER NAME AND ADDRESS WHATABURGER 300 CONCORD PLAZA DR. SAN ANTONIO, TX 78216 PHONE: (210) 476-6842 CONTACT: CINDY ESPINOZA EMAIL: cespinoza@wbhq.com			
SITE CONTACT WHATABURGER 300 CONCORD PLAZA DR. SAN ANTONIO, TX 78216 PHONE: (210) 476-6842 CONTACT: CINDY ESPINOZA EMAIL: cespinoza@wbhq.com			
GENERAL SCOPE OF PROJECT THIS PROJECT WILL CONSIST OF A RESTAURANT AND THE CONSTRUASSOCIATED DRAINAGE FACILITIES AND OTHER MISCELLANEOUS SI			
NATURE OF CONSTRUCTION ACTIVITY (CHECK ALL THAT APPLY)  SUBDIVISION  COMMERCIAL X  INDUSTRIAL  P.U.D.  OTHER			
SOIL TYPES			
CONSTRUCTION SITE ESTIMATES  TOTAL SITE AREA: CONSTRUCTION SITE AREA TO BE DISTURBED: PERCENTAGE IMPERVIOUS AREA BEFORE CONSTRUCTION: RUNOFF COEFFICIENT BEFORE CONSTRUCTION: PERCENTAGE IMPERVIOUS AREA AFTER CONSTRUCTION: RUNOFF COEFFICIENT AFTER CONSTRUCTION:	1.45 AC. 1.53 AC. 0.5%		
RECEIVING WATERS LAKE WINNEBAGO			
CONSTRUCTION SEQUENCE THE ORDER OF MAJOR ACTIVITIES WILL BE AS FOLLOWS:			
PRE-CONSTRUCTION MEETING     BEFORE AND SITE GRADING ACTIVITIES BEGIN     a. INSTALL PERIMETER SILT FENCES     b. INSTALL INLET PROTECTION ON EXISTING INLETS     c. CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE			
3. BEGIN SITE GRADING AND TOPSOIL STRIPPING  a. ESTABLISH TOPSOIL STOCKPILE WITHIN SILT FENCE PERIME			
<ul> <li>b. STABILIZE DENUDED AREAS AND STOCKPILES WITHIN 14 DAYS OF LAST CONSTRUCTION ACTIVITY IN THAT AREA</li> <li>c. INSTALL EROSION CONTROL MATTING AT LOCATIONS INDICATED ON PLAN</li> <li>4. INSTALL UTILITIES, SANITARY SEWERS, WATER SERVICES AND STORM SEWERS</li> <li>6. BEGIN CONSTRUCTION OF BUILDING FOUNDATION AND STRUCTURE</li> <li>7. INSTALL CURBS, PREPARE PAVEMENT SUBGRADE AND PROVIDE GOOD AGGREGATE BASE TO AREAS TO BE PAVED.</li> <li>8. PAVE AREAS AND EXTERIOR BUILDING CONSTRUCTION.</li> <li>9. FINAL GRADING AND PERMANENT SEEDING OF THE NON-PAVED AREAS OF THE SITE WITHIN 7 DAYS OF FINISHING FINAL GRADE</li> <li>10. ONCE 70% VEGETATIVE COVERAGE IS ACHIEVED, REMOVE EROSION PROTECTION.</li> </ul>			
POTENTIAL SOURCES OF POLLUTION CONCRETE DETERGENTS WOOD FERTILIZERS PAINTS (ENAMEL AND LATEX) CLEANING SOLVENTS PETROLEUM BASED PRODUCTS			
EROSION AND SEDIMENT CONTROLS  BMP DESCRIPTION:  MAINTENANCE AND INSPECTION:  REFERENCE:	CLEARING AND GRUBBING AS NEEDED TECHNICAL SPECIFICATION		
BMP DESCRIPTION: MAINTENANCE AND INSPECTION: REFERENCE:	DUST CONTROL AS NEEDED E&S DETAILS		
BMP DESCRIPTION: MAINTENANCE AND INSPECTION: REFERENCE:	TEMPORARY SEEDING AND MULCHING WEEKLY AND AFTER HEAVY RAIN E&S DETAILS		
BMP DESCRIPTION: MAINTENANCE AND INSPECTION: REFERENCE:	PERMANENT SEEDING AND MULCHING WEEKLY AND AFTER HEAVY RAIN E&S DETAILS		
BMP DESCRIPTION: MAINTENANCE AND INSPECTION: REFERENCE:	CONSTRUCTION ENTRANCE AS NEEDED E&S DETAILS		
BMP DESCRIPTION: MAINTENANCE AND INSPECTION: REFERENCE:	ADS - ISOLATOR ROW AS NEEDED O&M MANUAL		
BMP DESCRIPTION: MAINTENANCE AND INSPECTION: REFERENCE:	TOPSOIL STOCKPILE AS NEEDED O&M MANUAL		
POST CONSTRUCTION BMP'S  GREEN SPACE			

OTHER SEDIMENT AND EROSION CONTROL NOTES

- TEMPORARY EROSION CONTROLS WILL BE APPLIED PRIOR TO ONSET OF WINTER WEATHER FOR DISTURBED AREAS THAT WILL BE LEFT IDLE OVER WINTER.
- PERMANENT EROSION CONTROLS WILL BE APPLIED WITHIN 7 DAYS FOR DISTURBED AREAS REMAINING DORMANT FOR OVER 1 YEAR OR AT FINAL GRADE.
- SEDIMENT CONTROL DEVICES WILL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED OVER 7 DAYS.

#### ADDITIONAL BMP'S

<u>OPEN BURNING:</u> NO MATERIALS MAY BE BURNED WHICH CONTAIN RUBBER, GREASE, ASPHALT, OR PETROLEUM PRODUCTS SUCH AS TIRES, CARS, AUTO PARTS, PLASTICS OR PLASTIC COATED WIRE. OPEN BURNING IS NOT ALLOWED IN RESTRICTED AREAS. RESTRICTED AREAS ARE DEFINED AS:

- WITHIN CORPORATION LIMITS
   WITHIN 1,000 FEET OF A MUNICIPAL CORPORATION
- 3. WITHIN A ONE MILE ZONE OUTSIDE OF A CORPORATION OF 10,000 OR MORE

OUTSIDE THE RESTRICTED AREA, NO OPEN BURNING CAN TAKE PLACE WITHIN 1,000 FEET OF AN INHABITED BUILDING LOCATED OFF THE PROPERTY WHERE THE FIRE IS SET. OPEN BURNING IS PERMISSIBLE IN A RESTRICTED AREA FOR THE FOLLOWING ACTIVITIES: HEATING TAR, WELDING AND ACETYLENE TORCHES, SMUDGE POTS AND SIMILAR OCCUPATIONAL NEEDS, AND HEATING OR WARMTH FOR OUTDOOR BARBEQUES. OUTSIDE OF RESTRICTED AREAS, OPEN BURNING IS PERMISSIBLE FOR LANDSCAPE WASTES (PLANT MATERIAL), LAND-CLEARING WASTES (PLANT MATERIAL, WITH PRIOR WRITTEN PERMISSION FROM EPA), AND AGRICULTURAL WASTES (MATERIAL GENERATED BY CROP, HORTICULTURAL, OR LIVESTOCK PRODUCTION PRACTICES.

DUST CONTROL/SUPPRESSANTS: DUST CONTROL IS REQUIRED TO PREVENT NUISANCE CONDITIONS. DUST CONTROLS MUST BE USED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION AND NOT BE APPLIED IN A MANNER, WHICH WOULD RESULT IN A DISCHARGE TO WATERS OF THE STATE. ISOLATION DISTANCES FROM BRIDGES, CATCH BASINS, AND OTHER DRAINAGE WAYS MUST BE OBSERVED. APPLICATION (EXCLUDING WATER) MAY NOT OCCUR WHEN PRECIPITATION IS IMMINENT AS NOTED IN THE SHORT TERM FORECAST. USED OIL MAY NOT BE APPLIED FOR DUST CONTROL.

AIR PERMITTING REQUIREMENTS: ALL CONTRACTORS AND SUB CONTRACTORS MUST BE MADE AWARE THAT CERTAIN ACTIVITIES ASSOCIATED WITH CONSTRUCTION WILL REQUIRE AIR PERMITS. ACTIVITIES INCLUDING BUT NOT LIMITED TO MOBILE CONCRETE BATCH PLANTS, MOBILE ASPHALT PLANTS, CONCRETE CRUSHERS, LARGE GENERATORS, ETC., WILL REQUIRE SPECIFIC MISSOURI EPA AIR PERMITS FOR INSTALLATION AND OPERATION. THESE ACTIVITIES MUST SEE AUTHORIZATION FROM THE CORRESPONDING OF MISSOURI EPA. NOTIFICATION FOR RESTORATION AND DEMOLITION MUST BE SUBMITTED TO MISSOURI EPA FOR ALL COMMERCIAL SITES TO DETERMINE IF ASBESTOS CORRECTIVE ACTIONS ARE REQUIRED.

WASTE DISPOSAL: THE CONTRACTOR SHALL PROVIDE LITTER CONTROL AND COLLECTION OF MATERIALS WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION. ALL FERTILIZER, HYDROCARBON, OR OTHER CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH THE EPA'S STANDARD PRACTICES. NO SOLID MATERIAL INCLUDING BUILDING AND CONSTRUCTION MATERIAL SHALL BE DISPOSED OF, DISCHARGED OR BURIED ONSITE.

OFFSITE VEHICLE TRACKING: LOADED HAUL TRUCKS SHALL BE COVERED WITH A TARPAULIN. EXCESS DIRT MATERIAL ON THE ROADS SHALL BE REMOVED IMMEDIATELY. HAULING ON UNPAVED SURFACES SHALL BE MONITORED TO MINIMIZE DUST AND CONTROL EROSION. HAUL ROADS SHALL BE WATERED OR OTHER CONTROLS PROVIDED AS NECESSARY TO REDUCE DUST AND CONTROL SEDIMENTS.

SANITARY WASTE: THE CONTRACTOR SHALL PROVIDE PORTABLE SANITARY WASTE FACILITIES. THESE FACILITIES SHALL BE COLLECTED OR EMPTIED BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS.

FERTILIZERS AND PESTICIDES: FERTILIZER SHALL BE APPLIED AT A RATE SPECIFIED BY THE SPECIFICATIONS OR THE MANUFACTURER. THE APPLICATION OF FERTILIZERS SHALL BE ACCOMPLISHED IN A MANNER AS DESCRIBED BY THE SPECIFICATION OR MANUFACTURER TO ENSURE THE PROPER INSTALLATION AND TO AVOID OVER FERTILIZING. PESTICIDES ARE NOT ANTICIPATED FOR THIS PROJECT.

#### MAINTENANCE

THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF EROSION AND SEDIMENT CONTROL DEVICES AND THE REMOVAL OF THE EROSION AND SEDIMENT CONTROL DEVICES AFTER THE NOTICE OF TERMINATION IS EXECUTED.

THE CONTRACTOR SHALL REVIEW THE PROJECT AND ALL EROSION AND SEDIMENT CONTROLS ON A DAILY BASIS AND DURING AND FOLLOWING RAINFALL EVENTS. AN INSPECTION FORM HAS BEEN PROVIDED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL BE REQUIRED TO KEEP A LOG OF ALL THE DAILY INSPECTION REPORTS, GRADING AND STABILIZATION ACTIVITIES, AND SWPPP AMENDMENTS AT THE SITE. THE FOLLOWING PRACTICES WILL BE IMPLEMENTED TO MAINTAIN AND MONITOR EROSION AND SEDIMENT CONTROLS.

- A. PROJECT REVIEW ON A DAILY BASIS.
- B. PROVIDE AND MAINTAIN RAIN GAUGES ONSITE (IF NOT AVAILABLE IN THE AREA) TO RECORD RAINFALL DATA DAILY.
- C. REVIEW STABILIZATION PRACTICES AND CONTROLS ON A DAILY BASIS AND MAINTAIN AND REPAIR THESE MEASURES AND CONTROLS AS NECESSARY. TEMPORARY AND/OR PERMANENT SEEDING, MULCHING AND SODDING SHALL BE REPAIRED IN BARE SPOTS AND WASHOUTS, AND HEALTHY GROWTH ESTABLISHED.
- D. ONCE HEALTHY GROWTH OF TURF IS ESTABLISHED, THE CONTRACTOR SHALL MAINTAIN THESE AREAS TO INSURE THE HEIGHT OF THE GRASS DOES NOT REACH MORE THAN 6 INCHES ABOVE THE ESTABLISHED GRADE.
- E. REVIEW STRUCTURAL PRACTICES ON A DAILY BASIS AND MAINTAIN AND REPAIR THESE MEASURES AND CONTROLS AS NECESSARY. BUILT UP SEDIMENTS SHALL BE REMOVED FROM SILT FENCES AND FILTER CLOTH SHALL BE REPLACED AS NECESSARY AND WHEN THEY HAVE SERVED THEIR USEFULNESS.
- F. AN INSPECTION AND MAINTENANCE REPORT SHALL BE COMPLETED WEEKLY AND WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR SHALL CREATE AN INSPECTION AND MAINTENANCE REPORT LOG AND NOTE ANY AMENDMENTS TO THE SWPPP THAT OCCUR DURING CONSTRUCTION.
- G. IF THE CONTRACTOR ELECTS TO APPLY FOR PERMITS FOR DISCHARGE OF STORMWATER FROM THE SITE DURING CONSTRUCTION, ALL POINTS OF DISCHARGE OF STORMWATER RUNOFF FROM THE SITE SHALL BE INSPECTED ON A DAILY BASIS AND CONTROLS AND MEASURES REPAIRED AS NECESSARY TO MAINTAIN ACCEPTABLE WATER QUALITY AND DISCHARGE VOLUMES IN ACCORDANCE WITH THE PERMIT.

### INSPECTIONS

QUALIFIED PERSONNEL SHALL INSPECT ALL POINTS OF DISCHARGE, AS APPLICABLE, FROM THE PROJECT SITE AND ALL DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN STABILIZED. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR POTENTIAL FOR POLLUTANTS ENTERING THE STORMWATER MANAGEMENT SYSTEM. THE STORMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL MEASURES SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. INSPECTION AND MAINTENANCE REPORTS SHALL BE COMPLETED AT LEAST EVERY WEEK AND FOLLOWING A RAINFALL EVENT OF 0.5 INCHES OF WATER OR GREATER (SEE ATTACHED FORM). THESE FORMS SHALL BE RETAINED FOR A PERIOD OF AT LEAST 3 YEARS FOLLOWING THE DATE THE SITE IS FINALLY STABILIZED.

ALLOWABLE NON-STORMWATER DISCHARGE MANAGEMENT

ALLOWABLE NON-STORMWATER DISCHARGES AND THE MEASURES USED TO ELIMINATE OR REDUCE THEM AND TO PREVENT THEM FROM BECOMING CONTAMINATED MAY INCLUDE DEPENDING ON THE PERMIT:

- WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED
- 2. WATER USED TO CONTROL DUST
- 3. POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHINGS
- 4. ROUTINE EXTERNAL BUILDING WASH DOWN THAT DOES NOT USE DETERGENTS
- 5. PAVEMENT WASH WATER WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS
- ALL SPILLED MATERIAL HAS BEEN REMOVED) AND WHERE DETERGENTS ARE NOT USED

  6. UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE
- 7. UNCONTAMINATED GROUND WATER OR SPRING WATER
- 8. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS
- 9. UNCONTAMINATED EXCAVATION DEWATERING

### 10. LANDSCAPE IRRIGATION

#### ESTABLISH PROPER EQUIPMENT/VEHICLE FUELING AND MAINTENANCE PRACTICES

EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES, OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS. SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL FUEL OIL STORAGE TANKS. THESE AREAS MUST BE INSPECTED EVERY SEVEN DAYS AND WITHIN 24 HOURS OF A 0.5 INCH OR GREATER RAIN EVENT TO ENSURE THERE ARE NO EXPOSED MATERIALS WHICH WOULD CONTAMINATE STORM WATER.

#### SPILL PREVENTION CONTROL PLAN

SITE OPERATORS MUST BE AWARE THAT SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) REQUIREMENTS APPLY. AN SPCC PLAN IS REQUIRED FOR SITES WITH ONE SINGLE ABOVEGROUND STORAGE OF 1,320 GALLONS OR MORE, OR 42,000 GALLONS OF UNDERGROUND STORAGE. SOILS THAT HAVE BEEN CONTAMINATED MUST BE DISPOSED OF IN ACCORDANCE WITH SECTION "CONTAMINATED SOILS" FOUND BELOW.

SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST, CAT LITTER OR OTHER ABSORBENT MATERIAL AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. SPILLS SHALL BE REPORTED TO THE EPA (1-913-281-0991). SPILLS OF 25 GALLONS OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO EPA (1-913-281-0991), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE DISCOVERY OF THE RELEASE. ALL SPILLS, WHICH RESULT IN CONTACT WITH WATER OF THE STATE, MUST BE REPORTED TO THE EPA'S HOTLINE.

#### CONTAMINATED SOILS

IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC., ARE SPILLED, LEAKED, OR RELEASED ONTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF AT A LICENSED SANITARY LANDFILL OR OTHER APPROVED PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY (NOT A CONSTRUCTION/DEMOLITION DEBRIS LANDFILL). PLEASE BE AWARE THAT STORM WATER RUN OFF ASSOCIATED WITH CONTAMINATED SOILS ARE NOT BEING AUTHORIZED UNDER THE EPA'S GENERAL STORMWATER PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITIES. IN THE EVENT THERE ARE LARGE EXTENSIVE AREAS OF CONTAMINATED SOILS ADDITIONAL MEASURES ABOVE AND BEYOND THE CONDITIONS OF THE EPA'S GENERAL CONSTRUCTION STORMWATER PERMIT WILL BE REQUIRED. DEPENDING ON THE EXTENT OF CONTAMINATION, ADDITIONAL TREATMENT AND/OR COLLECTION AND DISPOSAL MAY BE REQUIRED. ALL STORMWATER DISCHARGES ASSOCIATED WITH CONTAMINATED SOILS MUST BE AUTHORIZED UNDER AN ALTERNATE NPDES PERMIT.

REVISION/DATE/DESCRIPTION

SIR UPDATES 09/13/21

60% SET 01/24/22

PDP APPLICATION 02/24/22

TO CITY 03/29/22

COMMENTS I 06/29/22

PINAL 06/29/22

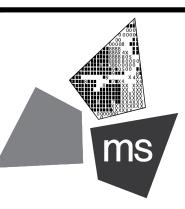
RESPONSE TO 08/30/22

FINAL 08/30/22

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fax 614.898.7570

PROJECT

PROPOSED PT20M BUILDING

NEQ HWY 150 & SW HOLLYWOOD DR. LEE'S SUMMIT, MO 64082

SHEET TITLE
SWPPP NOTES



DRAWN BY: TD

CHECKED BY: PG

DRAWING

PROJECT NO:

C-10.0

40497-21

Know what's below.
Call before you dig.

#### TEMPORARY SEEDING

#### DESCRIPTION

TEMPORARY SEEDINGS ESTABLISH TEMPORARY COVER ON DISTURBED AREAS BY PLANTING APPROPRIATE RAPIDLY GROWING ANNUAL GRASSES OR SMALL GRAINS. TEMPORARY SEEDING PROVIDES EROSION CONTROL ON AREAS IN BETWEEN CONSTRUCTION OPERATIONS. GRASSES, WHICH ARE QUICK GROWING, ARE SEEDED AND USUALLY MULCHED TO PROVIDE PROMPT, TEMPORARY SOIL STABILIZATION. IT EFFECTIVELY MINIMIZES THE AREA OF A CONSTRUCTION SITE PRONE TO EROSION AND SHOULD BE USED EVERYWHERE THE SEQUENCE OF CONSTRUCTION OPERATIONS ALLOWS VEGETATION TO BE ESTABLISHED.

#### SPECIFICATIONS FOR TEMPORARY SEEDING

TEMPORARY SEEDING SPECIES SELECTION					
SEEDING DATES	SPECIES	LB/1000 SF	LB/ACREA		
MAR 1 TO AUG 15	OATS	3	128-4 BUSHEL		
	TALL FESCUE	1	40		
	ANNUAL RYEGRASS	1	40		
	PERENNIAL RYGRASS	1	40		
	TALL FESCUE	1	40		
	ANNUAL RYEGRASS	1	40		
	ANNUAL RYEGRASS	1.25	55		
	PERENNIAL RYEGRASS	3.25	142		
	CREEPING RED FESCUE	0.40	17		
	KENTUCKY BLUEGRASS	0.40	17		
	OATS	3	128-3 BUSHEL		
	TALL FESCUE	1	40		
	ANNUAL RYEGRASS	1	40		
AUG 16 TO NOV	RYE	3	112-3 BUSHEL		
	TALL FESCUE	1	40		
	ANNUAL RYEGRASS	1	40		
	WHEAT	3	120-2 BUSHEL		
	TALL FESCUE	1	40		
	ANNUAL RYEGRASS	1	40		
	PERENNIAL RYE	1	40		
	TALL FESCUE	1	40		
	ANNUAL RYEGRASS	1	40		
	ANNUAL RYEGRASS	1.25	40		
	PERENNIAL RYEGRASS	3.25	40		
	CREEPING RED FESCUE	0.40	40		
	KENTUCKY BLUEGRASS	0.40			
NOV 1 TO FEB 29	USE MULCH ONLY OR DOR	MANT SEEDING	•		

- 1. STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND
- STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION SITE.
  TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 14

SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

- DAYS OR GREATER. THESE IDLE AREAS SHALL BE SEEDED WITHIN 7 DAYS AFTER GRADING.

  3. THE SEEDBED SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. TEMPORARY SEEDING
- SHOULD NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.
- 4. SOIL AMENDMENTS—TEMPORARY VEGETATION SEEDING RATES SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION, WHICH MAY
- REQUIRE THE USE OF SOIL AMENDMENTS. BASE RATES FOR LIME AND FERTILIZER SHALL BE USED.

  5. SEEDING METHOD—SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SPREADER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON-SITE AND THE

## MULCHING TEMPORARY SEEDING:

- APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH. WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES ON FAVORABLE, VERY FLAT SOIL CONDITIONS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.
   MATERIALS:
- 2.1. STRAW—IF STRAW IS USED, IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT A RATE OF 2 TONS PER ACRE OR 90 LBS./ 1,000
- SQ. FT. (2-3 BALES)
  2.2. HYDROSEEDERS—IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2000 LBS./ AC. OR 46 LB./ 1,000-SQ.-FT.
- 2.3. OTHER—OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TON/ AC.
- STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER. ANCHORING METHODS:
- 3.1. MECHANICAL—A DISK, CRIMPER, OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO
- THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT LEFT TO A LENGTH OF APPROXIMATELY 6 INCHES.

  3.2. MULCH NETTING—NETTING SHALL BE USED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS. NETTING MAY BE NECESSARY
- TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.

  3.3. SYNTHETIC BINDERS—SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TRACK OR EQUIVALENT MAY
- BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.
- 3.4. WOOD-CELLULOSE FIBER—WOOD-CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WT. OF 750 LB./AC. THE WOOD-CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB. / 100 GAL.

### **DUST CONTROL**

### DESCRIPTION

DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

### SPECIFICATIONS FOR DUST CONTROL

- 1. VEGETATIVE COVER AND/MULCH APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 21 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING; PERMANENT SEEDING; MULCHING PRACTICES; AND TREE AND NATURAL AREA PROTECTION PRACTICES.
- 2. WATERING SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURERS INSTRUCTIONS.
- SPRAY-ON ADHESIVES APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURER'S INSTRUCTIONS.
   STONE GRADED ROADWAYS AND OTHER SUITABLE AREAS WILL BE STABILIZED USING CRUSHED STONE OR COARSE GRAVEL AS SOON AS PRACTICABLE AFTER REACHING AN INTERIM OR FINAL GRADE. CRUSHED STONE OR COARSE GRAVEL CAN BE USED AS A PERMANENT COVER TO PROVIDE CONTROL OF SOIL EMISSIONS.
- 5. BARRIERS EXISTING WINDBREAK VEGETATION SHALL BE MARKED AND PRESERVED. SNOW FENCING OR OTHER SUITABLE BARRIER MAY BE PLACED PERPENDICULAR TO PREVAILING AIR CURRENTS AT INTERVALS OF ABOUT 15 TIMES THE BARRIER HEIGHT TO CONTROL AIR CURRENTS AND BLOWING SOIL.
- 6. OPERATION AND MAINTENANCE WHEN TEMPORARY DUST CONTROL MEASURES ARE USED; REPETITIVE TREATMENT SHOULD BE APPLIED AS NEEDED TO ACCOMPLISH CONTROL. STREET CLEANING PAVED AREAS THAT HAVE ACCUMULATED SEDIMENT FROM CONSTRUCTION SHOULD BE CLEANED DAILY, OR AS NEEDED, UTILIZING A STREET SWEEPER OR BUCKET -TYPE END LOADER OR SCRAPER.

## PERMANENT SEEDING

#### DESCRIPTION

PERENNIAL VEGETATION IS ESTABLISHED ON AREAS THAT WILL NOT BE RE-DISTURBED FOR PERIODS LONGER THAN 12 MONTHS. PERMANENT SEEDING INCLUDES SITE PREPARATION, SEEDBED PREPARATION, PLANTING SEED, MULCHING, IRRIGATION AND MAINTENANCE.

PERMANENT VEGETATION IS USED TO STABILIZE SOIL, REDUCE EROSION, PREVENT SEDIMENT POLLUTION, REDUCE RUNOFF BY PROMOTING INFILTRATION, AND PROVIDE STORMWATER QUALITY BENEFITS OFFERED BY DENSE GRASS COVER.

#### SPECIFICATION FOR PERMANENT SEEDING

#### SITE PREPARATION:

- 1. SUBSOILER, PLOW, OR OTHER IMPLEMENT SHALL BE USED TO REDUCE SOIL COMPACTION AND ALLOW MAXIMUM INFILTRATION.

  (MAXIMIZING INFILTRATION WILL HELP CONTROL BOTH RUNOFF RATE AND WATER QUALITY.) SUBSOILING SHOULD BE DONE WHEN THE SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING SHALL NOT BE DONE ON SLIP-PRONE AREAS WHERE SOIL PREPARATION SHOULD BE LIMITED TO WHAT IS NECESSARY FOR ESTABLISHING VEGETATION.
- THE SITE SHALL BE GRADED AS NEEDED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION AND SEEDING.
   TOPSOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION.

#### SEEDBED PREPARATION:

- 1. TEST THE SOIL CONDITIONS FOR FEEDING BEFORE STARTING SEEDING AND MULCHING.
- LIME—AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO ACID SOIL AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, LIME SHALL BE APPLIED AT THE RATE OF 100 POUNDS PER 1,000-SQ. FT. OR 2 TONS PER ACRE.
- FERTILIZER—FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY A SOIL TEST. CONTRACTOR SHALL PERFORM LAB TESTING ON SOIL AND PROVIDE A CERTIFIED FERTILIZER RATIO FOR THE SITE SOILS AND SPECIFIED SEED MIX.
- 4. THE LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL WITH A DISK HARROW, SPRING-TOOTH HARROW, OR OTHER SUITABLE FIELD IMPLEMENT TO A DEPTH OF 3 INCHES. ON SLOPING LAND, THE SOIL SHALL BE WORKED ON THE CONTOUR.

#### SEEDING DATES AND SOIL CONDITIONS:

SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THE ABOVE SPECIFIED DATES, ADDITIONAL MULCH AND IRRIGATION MAY BE REQUIRED TO ENSURE A MINIMUM OF 80% GERMINATION. TILLAGE FOR SEEDBED PREPARATION SHOULD BE DONE WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. FOR WINTER SEEDING, SEE THE FOLLOWING SECTION ON DORMANT SEEDING.

#### DORMANT SEEDINGS:

- 1. SEEDINGS SHOULD NOT BE MADE FROM OCTOBER 1 THROUGH NOVEMBER 20. DURING THIS PERIOD, THE SEEDS ARE LIKELY TO
- GERMINATE BUT PROBABLY WILL NOT BE ABLE TO SURVIVE THE WINTER.

  2. THE FOLLOWING METHODS MAY BE USED FOR "DORMANT SEEDING":
- 2.1. FROM OCTOBER 1 THROUGH NOVEMBER 20, PREPARE THE SEEDBED, ADD THE REQUIRED AMOUNTS OF LIME AND FERTILIZER, THEN MULCH AND ANCHOR. AFTER NOVEMBER 20, AND BEFORE MARCH 15, BROADCAST THE SELECTED SEED MIXTURE. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.
- 2.2. FROM NOVEMBER 20 THROUGH MARCH 15, WHEN SOIL CONDITIONS PERMIT, PREPARE THE SEEDBED, LIME AND FERTILIZE, APPLY THE
- SELECTED SEED MIXTURE, MULCH AND ANCHOR. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.

  2.3. APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRO-SEEDER (SLURRY MAY INCLUDE SEED
- AND FERTILIZER) ON A FIRM, MOIST SEEDBED.

  2.4. WHERE FEASIBLE, EXCEPT WHEN A CULTIPACKER TYPE SEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER, OR LIGHT DRAG. ON SLOPING LAND, SEEDING OPERATIONS SHOULD BE ON THE

#### MULCHING:

- 1. MULCH MATERIAL SHALL BE APPLIED IMMEDIATELY AFTER SEEDING. DORMANT SEEDING SHALL BE MULCHED. 100% OF THE GROUND SURFACE SHALL BE COVERED WITH AN APPROVED MATERIAL.
- 2. MATERIALS:
- 2.1. STRAW—IF STRAW IS USED IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT THE RATE OF 2 TONS PER ACRE OR 90 POUNDS (TWO TO THREE BALES) PER 1,000-SQ. FT. THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY APPLIED SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000-SQ.-FT. SECTIONS AND SPREAD TWO 45-LB. BALES OF STRAW IN EACH SECTION.
- 2.2. HYDROSEEDERS—IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE APPLIED AT 2,000 LB./AC. OR 46 LB./1,000 SQ. FT.
- 2.3. OTHER—OTHER ACCEPTABLE MULCHES INCLUDE ROLLED EROSION CONTROL MATTINGS OR BLANKETS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS PER ACRE.
- MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS PER ACRE.

  3. STRAW AND MULCH ANCHORING METHODS-STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER:

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

  3.2. MULCH NETTING—NETTING SHALL BE USED ACCORDING TO THE MANUFACTURER FS RECOMMENDATIONS. NETTING MAY BE
- NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.
- 3.3. ASPHALT EMULSION—ASPHALT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURE OR AT THE RATE OF 160 GALLONS PER ACRE.
- 3.4. SYNTHETIC BINDERS—SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUIVALENT MAY BE USED AT RATES SPECIFIED BY THE MANUFACTURER.
- 3.5. WOOD CELLULOSE FIBER—WOOD CELLULOSE FIBER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER WITH THE MIXTURE CONTAINING A MAXIMUM OF 50 POUNDS CELLULOSE PER 100 GALLONS OF WATER.

### IRRIGATION:

PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY WEATHER OR ON ADVERSE SITE CONDITIONS, WHICH REQUIRE ADEQUATE MOISTURE FOR SEED GERMINATION AND PLANT GROWTH. IRRIGATION RATES SHALL BE MONITORED TO PREVENT EROSION AND DAMAGE TO SEEDED AREAS FROM EXCESSIVE RUNOFF. CONTRACTOR SHALL MAINTAIN PERMANENT SEEDING FOR UP TO ONE YEAR FROM SUBSTANTIAL COMPLETION TO FIX, REPAIR, WATER, REFERTILIZE AND/OR RESEED GRASSED AREAS.

CEED MIV	SEEDING RATE		NOTES
SEED MIX	LBS/ACRE	LBS/1,000 SF	NOTES
	GEN	NERAL USE	
CREEPING RED FESCUE	20-40	⅓ <sub>2</sub> -1	FOR CLOSE MOWING AND FOR
DOMESTIC RYEGRASS	10-20	1/4-1/2	WATERWAYS WITH <2.0 FT/SEC   VELOCITY
KENTUCKY BLUEGRASS	20-40	<i>1</i> / <sub>2</sub> -1	
TALL FESCUE	40-50	1-11/4	
TURF-TYPE (DWARF) FESCUE	90	21/4	
	STEEP BANK	KS OR CUT SLOPES	
TALL FESCUE	40-50	1-11/4	
CROWN VETCH	10-20	1/4-1/2	DO NOT SEED LATER THAN
TALL FESCUE	20-30	1/2-3/4	AUGUST
FLAT PEA	20-25	1/ <sub>2</sub> -3/ <sub>4</sub>	DO NOT SEED LATER THAN
TALL FESCUE	20-30	1/ <sub>2</sub> -3/ <sub>4</sub>	AUGUST
	ROAD DITC	HES AND SWALES	
TALL FESCUE	40-50	1-11/4	
TURF-TYPE (DWARF) FESCUE	90	21/4	
KENTUCKY BLUE GRASS	5	1/10	
		LAWNS	
KENTUCKY BLUEGRASS	100-120	2	
PERENNIAL RYEGRASS		2	
KENTUCKY BLUEGRASS	100-120	2	FOR SHADED AREAS
CREEPING RED FESCUE		1-1/2	

PERMANENT STABILIZATION					
AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS				
ANY AREA THAT WILL LIE DORMANT FOR ONE YEAR OR MORE.	WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE.				
ANY AREA WITHIN 50 FEET OF A STREAM OR A RIPARIAN SETBACK AREA AND AT FINAL GRADE.	WITHIN 2 DAYS OF REACHING FINAL GRADE.				
ANY AREA AT FINAL GRADE.	WITHIN 7 DAYS OF REACHING FINAL GRADE WITHIN THAT AREA.				

TEMPORARY STABILIZATION					
AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS				
ANY DISTURBED AREA WITHIN 50 FEET OF A STREAM OR A RIPARIAN SETBACK AREA AND NOT AT FINAL GRADE.	WITHIN 2 DAYS OF THE MOST RECENT DISTURBANCE IF THAT AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS.				
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREA, INCLUDING SOIL STOCKPILES THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR.	WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA.				
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER.	PRIOR TO NOVEMBER 1.				

**NOTE**: WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED. THESE TECHNIQUES MAY INCLUDE MULCHING OR EROSION MATTING.

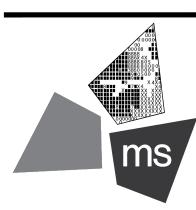
REVISION/DATE/DESCRIPTION

SIR UPDATES	09/13/21
60% SET	01/24/22
PDP APPLICATION TO CITY	02/24/22
RESPONSE TO CITY COMMENTS I	03/29/22
FINAL DEVELOPMENT SET	06/29/22
RESPONSE TO	08/30/22

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PROJECT

PROPOSED PT20M BUILDING

NEQ HWY 150 & SW HOLLYWOOD DR. LEE'S SUMMIT, MO 64082

SHEET TITLE
SWPPP NOTES



DRAWN BY: TDB

CHECKED BY: PGD

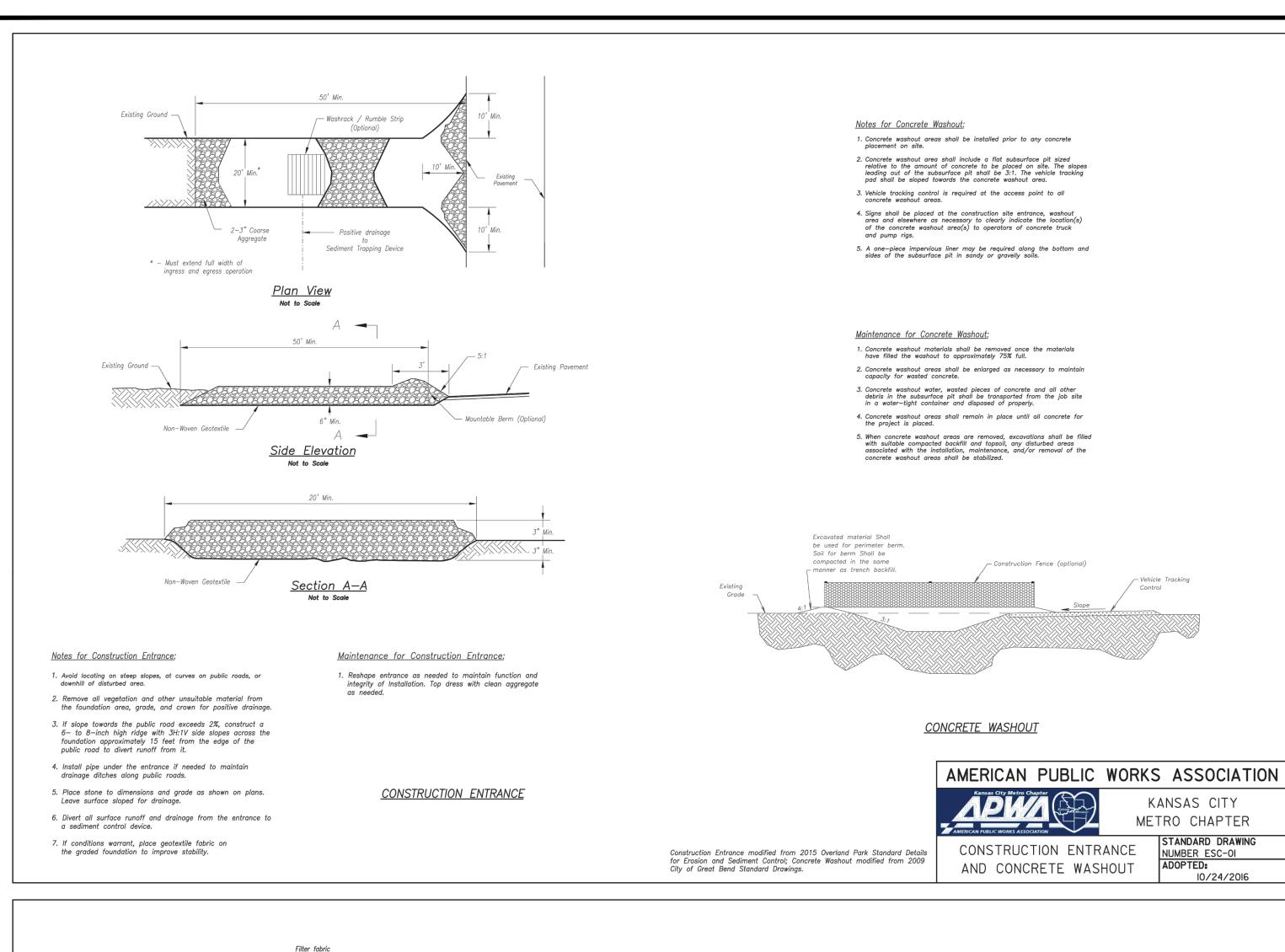
PROJECT NO: 40497-21

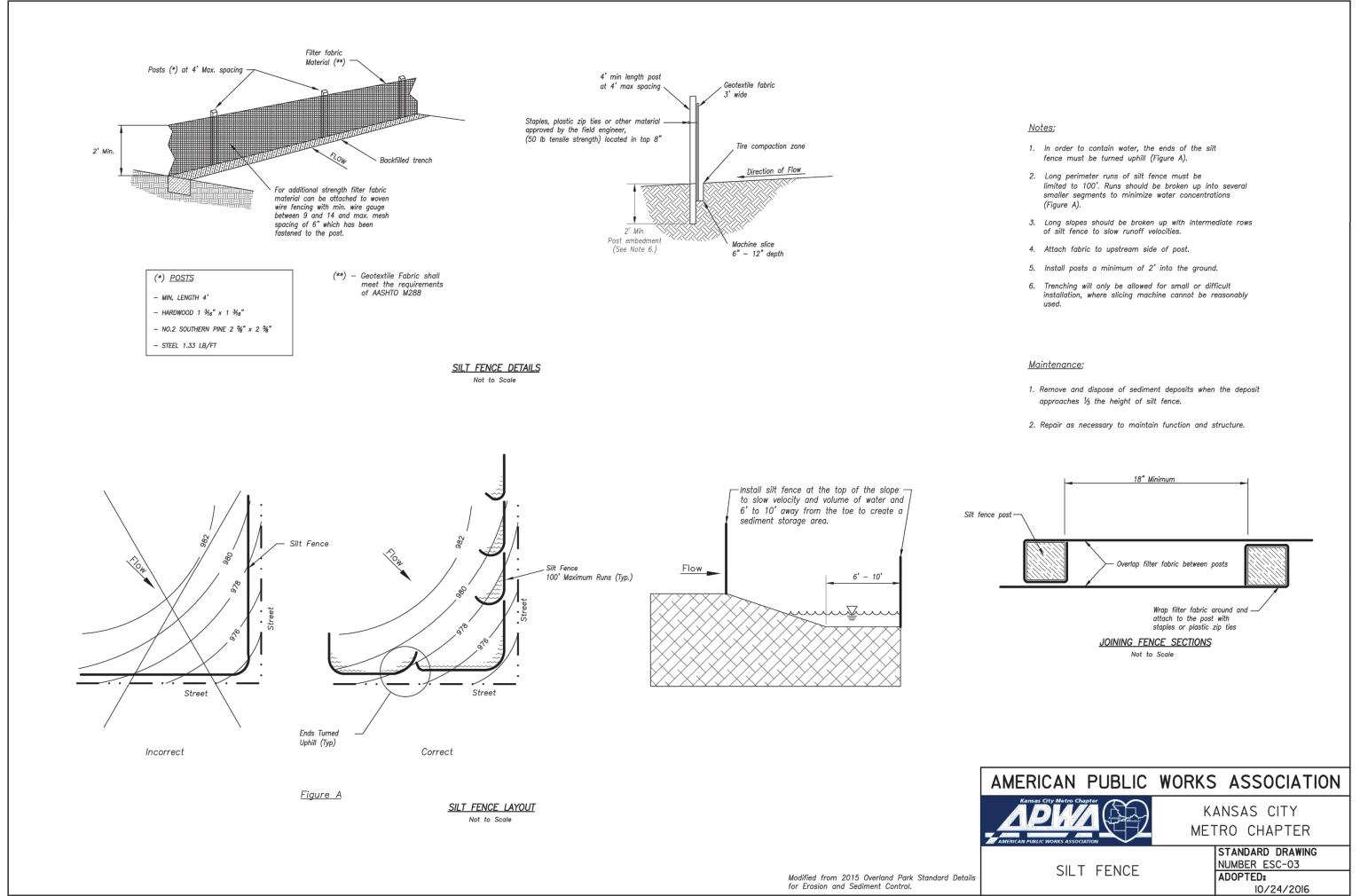
DRAWING

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C-10.1





02/24/22

09/13/21

01/24/22 60% SET PDP APPLICATION RESPONSE TO CITY 03/29/22 COMMENTS I 06/29/22 DEVELOPMENT SET RESPONSE TO 08/30/22 FDP COMMENTS

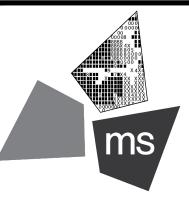
SIR UPDATES

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NEQ HWY 150 & SW HOLLYWOOD DR. LEE'S SUMMIT, MO 64082

SHEET TITLE SWPPP DETAILS

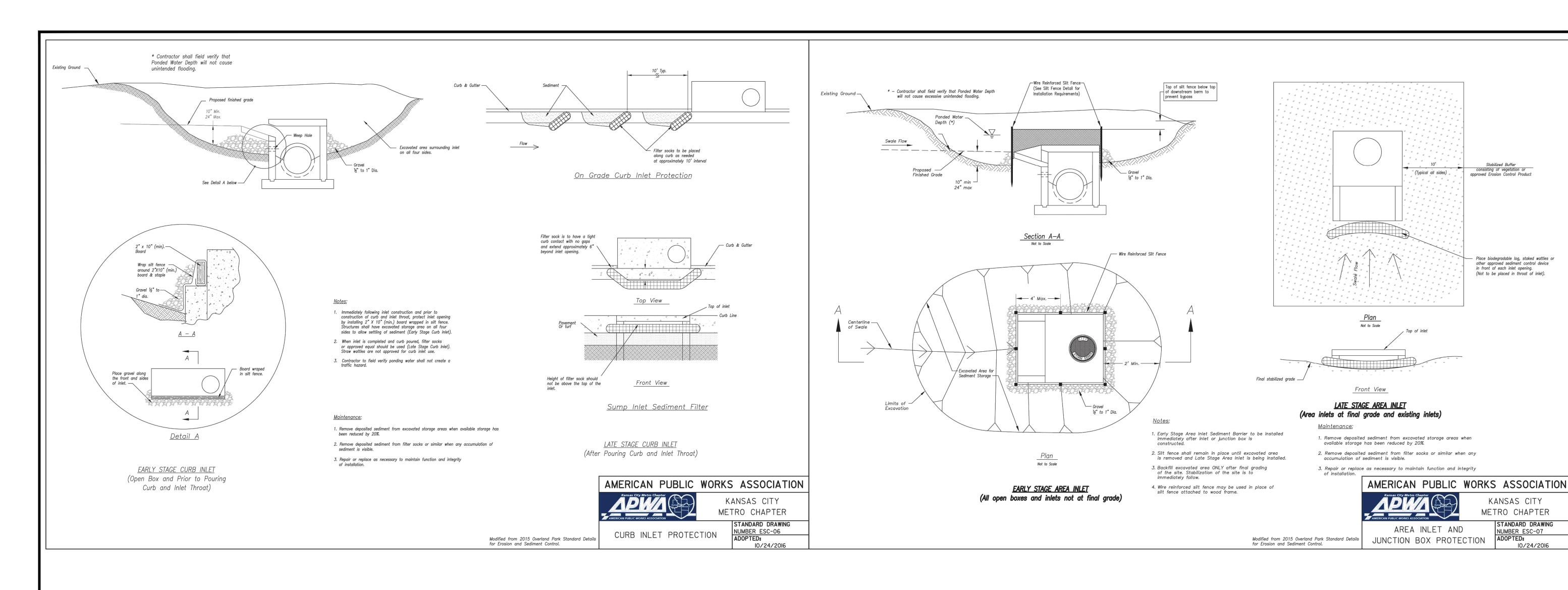


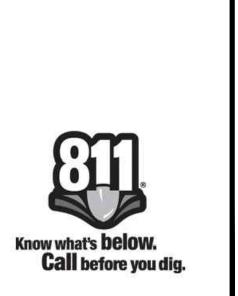
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REVISION/DATE/DESCRIPTION

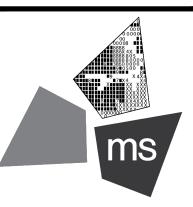
FDP COMMENTS

SIR UPDATES 09/13/21 60% SET 01/24/22 PDP APPLICATION 02/24/22 TO CITY RESPONSE TO CITY 03/29/22 COMMENTS I 06/29/22 DEVELOPMENT SET RESPONSE TO 08/30/22

NOTICE

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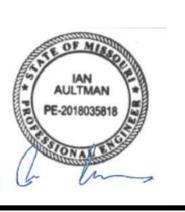
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PROJECT

PROPOSED PT20M BUILDING

NEQ HWY 150 & SW HOLLYWOOD DR. LEE'S SUMMIT, MO 64082

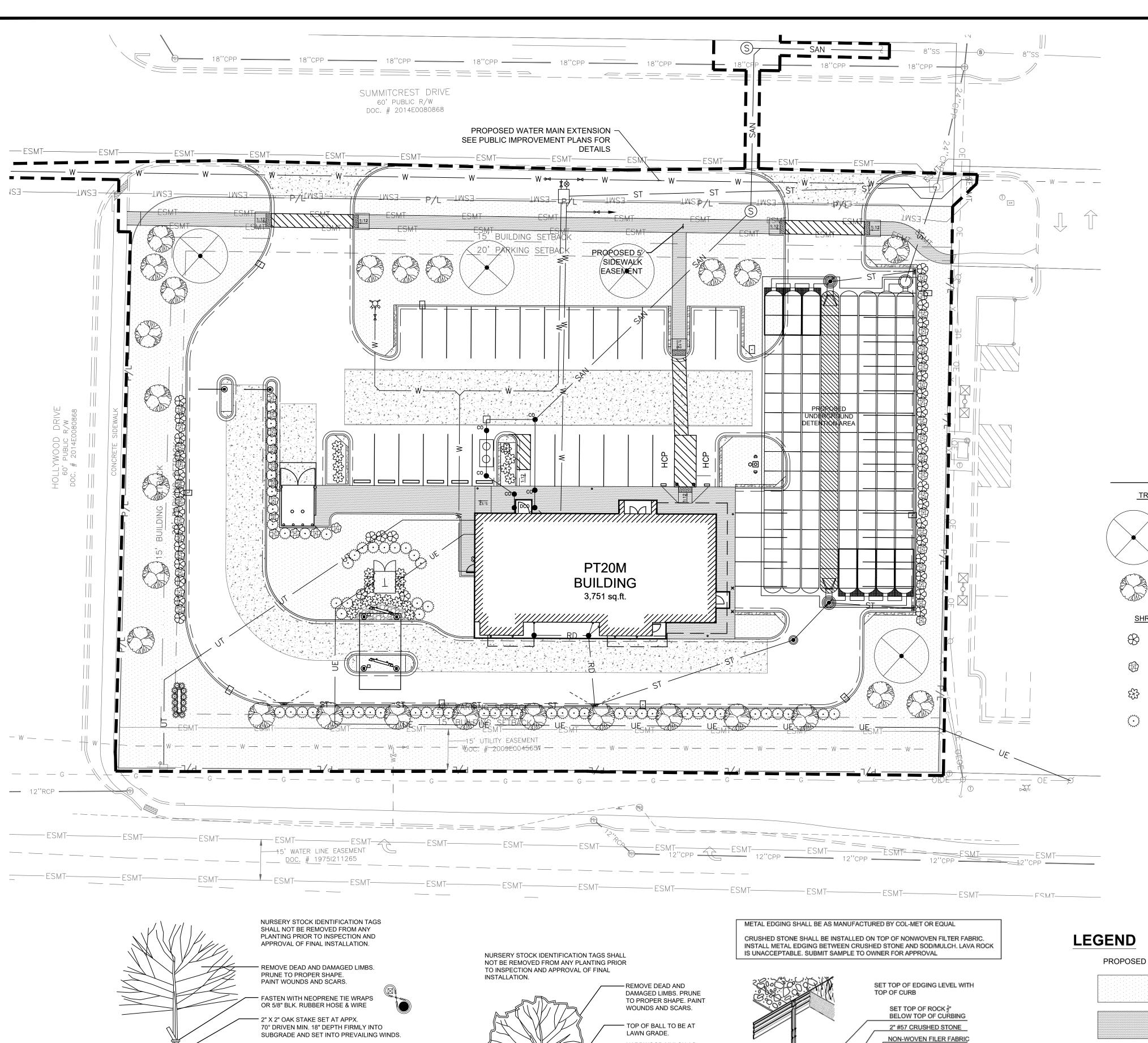
SHEET TITLE SWPPP DETAILS



DRAWN BY: CHECKED BY: 40497-21 PROJECT NO:

DRAWING

C-10.3



— HARDWOOD MULCH AS

PER SPECIFICATIONS.

— FORM EARTH SAUCER

WITH 3" HIGH BERM.

UNDISTURBED

SUBGRADE.

B SHRUB PLANTING DETAIL

FLOOD WITH WATER TWICE

DURING FIRST 24 HOURS. BURLAP REMOVED FROM

THE TOP 1/3 OF THE BALL.

—MULCH

- HARDWOOD MULCH AS PER SPECIFICATIONS

FLOOD WITH WATER TWICE DURING FIRST 24 HOURS.

BURLAP REMOVED FROM THE TOP 1/3 OF THE BALL.

— PLACE ROOT BALL ON UNDISTURBED SUBGRADE.

**DECIDUOUS TREE PLANTING DETAIL** 

— FORM EARTH SAUCER WITH 3" HIGH BERM.

## **GENERAL NOTES:**

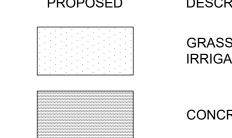
THE CERTIFICATE OF OCCUPANCY IS OBTAINED OR FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE, WHICHEVER IS GREATER. ANY PLANTINGS NEEDING REPLACEMENT WILL BE GUARANTEED FROM THE TIME OF REPLACEMENT IF AFTER FINAL ACCEPTANCE.

A. ALL PLANT MATERIALS TO COMPLY WITH THE LATEST EDITION OF A.N.A. STANDARDS FOR NURSERY STOCK AND BE GUARANTEED UNTIL

- LANDSCAPE CONTRACTOR IS TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES AND RECEIVE APPROVAL FROM GENERAL CONTRACTOR OR SITE SUPERVISOR, IF NECESSARY, TO MAKE CHANGES IN PLANT LOCATIONS.
- C. LANDSCAPE CONTRACTOR MUST COORDINATE WITH GENERAL CONTRACTOR AND OTHER SITE OPERATIONS.
- D. MINOR ADJUSTMENTS TO THE PLANT LOCATIONS ARE TO BE MADE IN THE CASE OF ANY CONFLICTS WITH PROPOSED UTILITIES.
- ALL PLANTING BEDS AND FREE STANDING TREES TO BE MULCHED WITH 4" OF SHREDDED HARDWOOD MULCH. BEDS ARE TO BE GRADED SMOOTH AND FREE OF SOIL CLODS AND STONES. ALL TREES TO BE STAKED AND WRAPPED WITH KRAFT TREE WRAP.
- F. ALL PLANTS ARE TO BE REMOVED FROM CONTAINERS, CAGES AND NON-BIODEGRADABLE MATERIALS.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR FINISHED GRADES; LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FINE GRADING AND
- H. ALL ORGANIC MATTER AND DEBRIS ARE TO BE REMOVED FROM THE SITE BY THE LANDSCAPE CONTRACTOR. LAWN AREAS AND BEDS SHOULD BE FREE OF STONES GREATER THAN 2".
- I. PLANT QUANTITIES HAVE BEEN PROVIDED FOR CONVENIENCE ONLY; THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR HIS OWN "TAKE OFFS". DRAWING PREVAILS OVER WRITTEN QUANTITIES.
- THE LANDSCAPE CONTRACTOR SHALL SUBMIT A ONE (1) YEAR MAINTENANCE CONTRACT FOR CONSIDERATION BY THE OWNER. CONTRACT SHALL BE SEPARATE FROM INSTALLATION CONTRACT.
- K. PLANTING BEDS SHALL BE TREATED WITH A PRE-EMERGENT HERBICIDE APPLIED AT PRODUCT SPECIFIED RATE UNLESS OTHERWISE
- L. PLANTING SHALL BE FERTILIZED UPON INSTALLATION. RECOMMENDED FERTILIZER SHALL BE MIXED WITH BACKFILL AT PRODUCT
- M. BED EDGE SHALL BE SMOOTH, CONSISTENT 4 1/2" DEEP AND HAND CUT, EDGES TO BE LOCATED BETWEEN ALL BEDS (INCLUDING TREES)
- N. CONTRACTOR TO SEED ALL DISTURBED AREAS WITH A LOCALLY ADAPTIVE SEED MIX UNLESS OTHERWISE DIRECTED BY THE GENERAL
- O. TOPSOIL SHALL BE BACK FILLED TO PROVIDE POSITIVE DRAINAGE OF ALL LANDSCAPE AREAS. SEE GRADING AND DRAINAGE PLAN SHEET C-5.0.
- P. LANDSCAPING MATERIALS ARE REQUIRED TO PROVIDE FULL SCREENING AT THE TIME OF PLANTING.
- Q. ALL OPEN AREAS NOT COVERED WITH OTHER MATERIALS SHALL BE COVERED WITH SOD.

## PROPOSED PLANT SCHEDULE

				_,				
TREE	<u>s</u>	BOTANICAL NAME	COMMON NAME	TYPE	QTY	HEIGHT AT TIME OF PLANTING	APPROXIMATE MATURE  HEIGHT  (HXW)	CONT
	AR	ACER RUBRUM	RED MAPLE	DECIDUOUS	4	3" CAL MEASURED AT A POINT 6" ABOVE THE GROUND OR TOP OF ROOT BALL, AT PLANTING.	(40' X 40')	B+B
	AC	AMELANCHIER CANADENSIS	SERVICEBERRY	DECIDUOUS	25	3" CAL MEASURED AT A POINT 6" ABOVE THE GROUND OR TOP OF ROOT BALL, AT PLANTING.	(15' X 25')	В+В
SHRUE	<u>3S</u>	<b>BOTANICAL NAME</b>	COMMON NAME		<u>QTY</u>			
\	WF	WEIGELA FLORIDA 'ALEXANDRA'	WINE AND ROSES WEIGELA	DECIDUOUS	38	2 GAL	(4' X 4')	
	RI	RHAPHIOLEPIS INDICA 'MAJESTIC BEAUTY'	MAJESTIC BEAUTY INDIAN HAWTHORN	EVERGREEN	44	2 GAL	(4' X 4')	
	HP	HYDRANGEA PANICULATA 'LITTLE LIME'	LITTLE LIME HYDRANGEA	DECIDUOUS	22	2 GAL	(3' X 3')	
32 to 1	IV	ILEX VOMITORIA 'NANA'	DWARF YAUPON	EVERGREEN	60	2 GAL	(4' X 5')	



DESCRIPTION



**ROCK AREA** 

GRASS/LANDSCAPED AREA TO BE



METAL EDGING

TURF OR MULCH

5 1/2 BLACK OR GREEN

12" LONG METAL STAKE

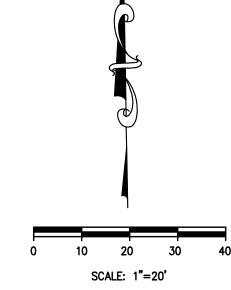
CONCRETE SIDEWALK



**HEAVY DUTY CONCRETE PAVEMEN** 



HEAVY DUTY ASPHALT PAVEMENT





REVISION/DATE/DESCRIPTION

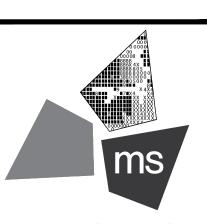
SIR UPDATES	09/13/21
60% SET	01/24/22
PDP APPLICATION TO CITY	02/24/22
RESPONSE TO CITY COMMENTS I	03/29/22
FINAL DEVELOPMENT SET	06/29/22
RESPONSE TO	08/20/22

FDP COMMENTS

#### NOTICE

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ms consultants, inc. engineers, architects, planners 2221 Schrock Road Columbus, Ohio 43229-1547 phone 614.898.7100 fax 614.898.7570

PROJECT

PROPOSED PT20M BUILDING

NEQ HWY 150 & SW HOLLYWOOD DR. LEE'S SUMMIT, MO 64082

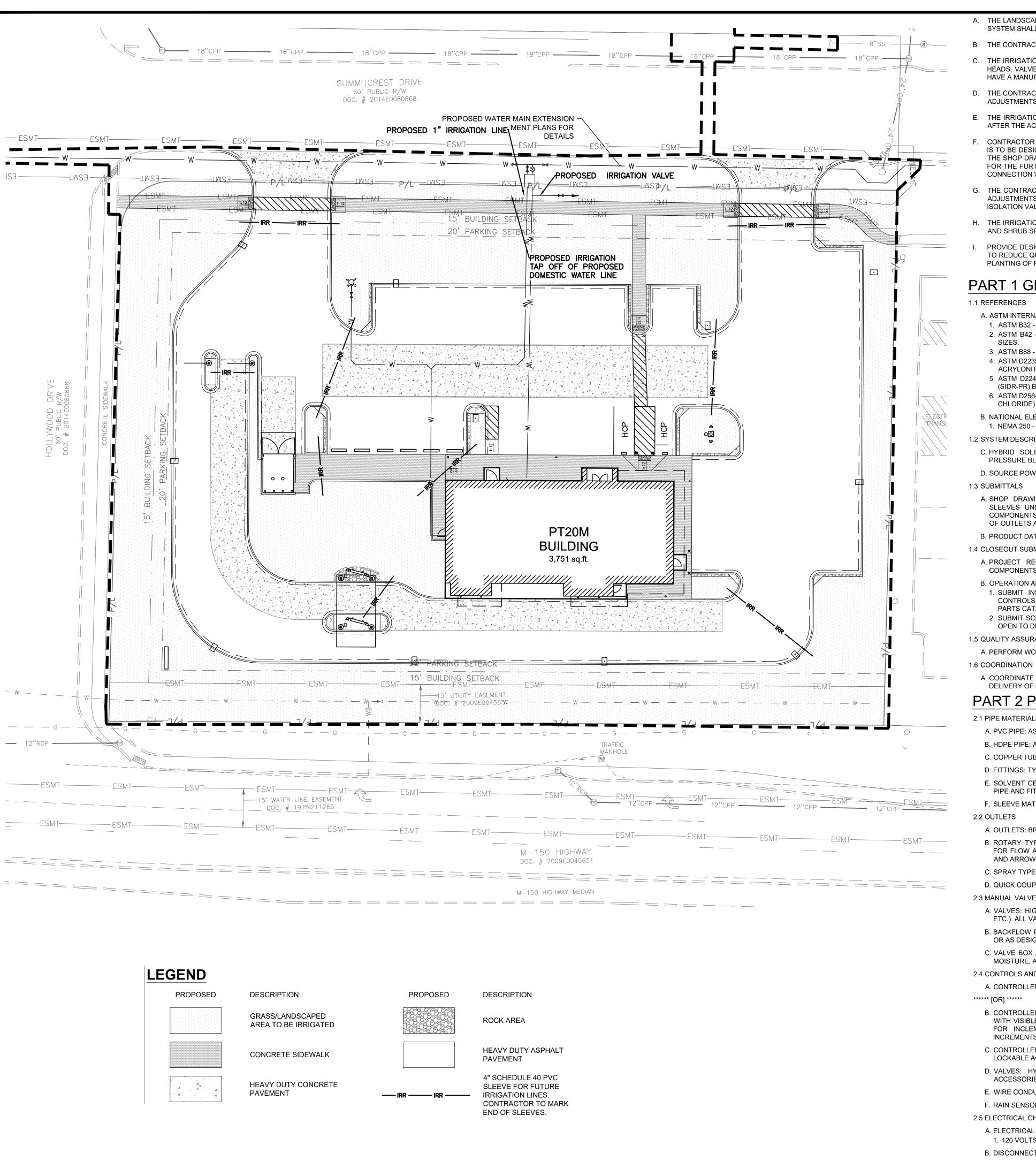
SHEET TITLE

LANDSCAPE PLAN



DRAWN BY: CHECKED BY: 40497-21 PROJECT NO:

DRAWING



- A. THE LANDSCAPE IRRIGATION SYSTEM SHALL IRRIGATE ALL PROPOSED LANDSCAPE AND GRASS AREAS ON THE PROPERTY. THE DESIGN, PERMITTING, AND INSTALLATION OF THE SYSTEM SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE/IRRIGATION CONTRACTOR (CONTRACTOR).
- B. THE CONTRACTOR IS TO INSTALL EQUIPMENT NECESSARY TO PROVIDE A COMPLETE, FUNCTIONAL SYSTEM THAT IS IN COMPLIANCE WITH APPLICABLE CODES AND REGULATIONS.
- C. THE IRRIGATION CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE OWNER'S REPRESENTATIVE FOR APPROVAL, PRIOR TO CONSTRUCTION, WHICH WILL ILLUSTRATE TYPE OF HEADS, VALVES, CONTROLLER, PIPING AND ACCESSORIES. IRRIGATION HEADS, VALVES AND CONTROLLER ARE TO BE FROM A SINGLE MANUFACTURER. ALL EQUIPMENT MUST HAVE A MANUFACTURERS FIVE YEAR WARRANTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND FIELD ADJUSTMENT OF THE ABOVE ITEMS.
- D. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER THE FINAL LOCATION OF THE CONTROL PANEL(S). NO ADDITIONAL COSTS SHALL BE ALLOWED FOR ANY ADJUSTMENTS MADE TO THE FINAL LOCATION OF ALL EQUIPMENT.
- E. THE IRRIGATION CONTRACTOR SHALL SUBMIT A WARRANTY POLICY TO THE OWNER WHICH SHALL COVER THE FUNCTION OF THE ENTIRE SYSTEM FOR A PERIOD OF ONE YEAR AFTER THE ACCEPTANCE OF THE SYSTEM BY THE OWNER.
- CONTRACTOR WILL VERIFY STATIC PRESSURE AND VOLUME OF SITE WATER SUPPLY AND ADJUST ENTIRE IRRIGATION SYSTEM ACCORDINGLY. EACH ZONE OF IRRIGATION SYSTEM IS TO BE DESIGNED WITH A MINIMUM OPERATING PRESSURE OF 45 PSI. IF THE PRESSURE IS BELOW 45 PSI, A PROPERLY SIZED BOOSTER PUMP WILL BE REQUIRED. AS PART OF THE SHOP DRAWINGS, THE IRRIGATION CONTRACTOR WILL PROVIDE CALCULATIONS SHOWING PRESSURE LOSS FROM THE POINT OF CONNECTION TO THE FURTHEST HEAD (AND FOR THE FURTHEST HEAD ON THE LARGEST ZONE). ADJUST DESIGN TO MEET AVAILABLE PRESSURES AND VOLUMES. A CURRENT STATIC PRESSURE READING AT THE POINT OF CONNECTION WAS NOT AVAILABLE PRIOR TO DESIGN.
- G. THE CONTRACTOR IS TO INSTALL ALL EQUIPMENT SUCH THAT THE BUILDING, PARKING AREAS, AND SIDEWALKS ARE NOT SPRAYED OR SUBJECT TO EXCESSIVE RUNOFF. FIELD ADJUSTMENTS MAY BE NECESSARY TO AVOID UNFORESEEN OBSTACLES AND SIMPLIFY INSTALLATION. IRRIGATION SYSTEM ACCESSORIES SUCH AS QUICK COUPLER VALVES, ISOLATION VALVES, AND MANUAL DRAIN VALVES ARE TO BE LOCATED AS NECESSARY TO COMPLETE THE SYSTEM.
- H. THE IRRIGATION CONTROLLER IS TO BE A HYBRID SOLID STATE TYPE WITH PLASTIC LOCKABLE CABINET. CONTROLLER MUST HAVE DUAL PROGRAMMING FOR TURF SPRAY ZONES AND SHRUB SPRAY ZONES AND BE CAPABLE OF OPERATING MULTIPLE VALVES PER STATION.
- PROVIDE DESIGNATED PVC SLEEVES FOR IRRIGATION PIPES AND WIRING THAT CROSSES UNDER WALKS, STREETS AND CONCRETE PADS. COMBINE PIPING WHENEVER POSSIBLE TO REDUCE QUANTITY OF SLEEVING MATERIALS. WHEN INSTALLING IRRIGATION PIPE ALONG CURBS OR IN ISLANDS, PLACE PIPE AS CLOSE TO CURB AS POSSIBLE TO ALLOW FOR PLANTING OF FUTURE TREES AND SHRUBS.

## PART 1 GENERAL

#### 1.1 REFERENCES

#### A. ASTM INTERNATIONAL:

- 1. ASTM B32 STANDARD SPECIFICATION FOR SOLDER METAL
- 2. ASTM B42 STANDARD SPECIFICATION FOR SEAMLESS COPPER PIPE, STANDARD
- 3. ASTM B88 STANDARD SPECIFICATION FOR SEAMLESS COPPER WATER TUBE
- 4. ASTM D2235 STANDARD SPECIFICATION FOR SOLVENT CEMENT FOR ACRYLONITRILE-BUTADIENE-STYRENE (ABS) PLASTIC PIPE AND FITTINGS.
- 5. ASTM D2241 STANDARD SPECIFICATION FOR POLYETHYLENE (PE) PLASTIC PIPE (SIDR-PR) BASED ON CONTROLLED INSIDE DIAMETER.
- 6. ASTM D2564 STANDARD SPECIFICATION FOR SOLVENT CEMENTS FOR POLY (VINYL CHLORIDE) (PVC) PLASTIC PIPING SYSTEMS.
- B. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION:
- 1. NEMA 250 ENCLOSURES FOR ELECTRICAL EQUIPMENT (1000 VOLTS MAXIMUM).

#### 1.2 SYSTEM DESCRIPTION

- C. HYBRID SOLID STATE CONTROLLED UNDERGROUND IRRIGATION SYSTEM, WITH PRESSURE BLOW-OUT DRAIN.
- D. SOURCE POWER: 120 VOLT.

#### 1.3 SUBMITTALS

- A. SHOP DRAWINGS: INDICATE PIPING LAYOUT TO WATER SOURCE, LOCATION OF SLEEVES UNDER PAVEMENT, LOCATION AND COVERAGE OF SPRINKLER HEADS, COMPONENTS, PLANT AND LANDSCAPING FEATURES, SITE STRUCTURES, SCHEDULE OF OUTLETS AND FITTINGS TO BE USED.
- B. PRODUCT DATA: SUBMIT COMPONENT AND CONTROL SYSTEM AND WIRING DIAGRAMS.

#### 1.4 CLOSEOUT SUBMITTALS

- A. PROJECT RECORD DOCUMENTS: RECORD ACTUAL LOCATIONS OF CONCEALED COMPONENTS BY NORTHING AND EASTING.
- B. OPERATION AND MAINTENANCE DATA TO OWNER:
- 1. SUBMIT INSTRUCTIONS FOR OPERATION AND MAINTENANCE OF SYSTEM AND CONTROLS, SEASONAL ACTIVATION AND SHUTDOWN, AND MANUFACTURER'S PARTS CATALOG.
- 2. SUBMIT SCHEDULE INDICATING LENGTH OF TIME EACH VALVE IS REQUIRED TO BE OPEN TO DELIVER DETERMINED AMOUNT OF WATER.

### 1.5 QUALITY ASSURANCE

A. PERFORM WORK IN ACCORDANCE WITH MANUFACTURER'S STANDARDS.

#### A. COORDINATE THE WORK WITH SITE BACKFILLING, PAVING, LANDSCAPE GRADING AND DELIVERY OF PLANT LIFE.

## PART 2 PRODUCTS

### 2.1 PIPE MATERIALS

- A. PVC PIPE: ASTM D2241, SDR 26; 160 PSI SOLVENT WELDED SOCKETS.
- B. HDPE PIPE: ASTM D-2239. SDR-15. 100 PSI.
- C. COPPER TUBING: ASTM B88 TYPE K.
- D. FITTINGS: TYPE AND STYLE OF CONNECTION TO MATCH PIPE
- E. SOLVENT CEMENT: [ASTM D2564 FOR PVC PIPE AND FITTINGS] [ASTM D2235 FOR ABS PIPE AND FITTINGS].
- F. SLEEVE MATERIAL: PVC SCH 40.

### 2.2 OUTLETS

### A. OUTLETS: BRASS CONSTRUCTION.

- B. ROTARY TYPE SPRINKLER HEAD: POP-UP TYPE WITH SCREENS; FULLY ADJUSTABLE FOR FLOW AND PRESSURE; WITH LETTER OR SYMBOL DESIGNATING DEGREE OF ARC AND ARROW INDICATING CENTER OF SPRAY PATTERN.
- C. SPRAY TYPE SPRINKLER HEAD: POP-UP HEAD WITH FULL CIRCLE PATTERN.
- D. QUICK COUPLER: GALVANIZED.

### 2.3 MANUAL VALVES

- A. VALVES: HIGHLY CORROSION RESISTANT CONSTRUCTION (BRASS, STAINLESS STEEL, ETC.). ALL VALVES SHALL BE ACCESSIBLE FROM ABOVE THROUGH A VALVE BOX.
- B. BACKFLOW PREVENTERS: BRONZE BODY CONSTRUCTION, REDUCED PRESSURE TYPE OR AS DESIGNATED BY LOCAL PLUMBING CODE REQUIREMENTS.
- C. VALVE BOX AND COVER: HDPE RESIN THAT IS RESISTANT TO UV LIGHT, CORROSION MOISTURE, AND CHEMICALS.

## 2.4 CONTROLS AND CONTROL VALVES

- A. CONTROLLER: MUST WORK WITH MANUFACTURER FLOW SENSOR, RAIN SENSOR, AND
- B. CONTROLLER: AUTOMATIC CONTROLLER, MICROPROCESSOR SOLID STATE CONTROL WITH VISIBLE READOUT DISPLAY, TEMPORARY OVERRIDE FEATURE TO BYPASS CYCLE FOR INCLEMENT WEATHER, PROGRAMMABLE FOR 7 DAYS IN QUARTER HOUR INCREMENTS, WITH AUTOMATIC START AND SHUTDOWN.
- C. CONTROLLER HOUSING: NEMA 250 TYPE 3R; WEATHERPROOF, WATERTIGHT, WITH LOCKABLE ACCESS DOOR.
- D. VALVES: HYDRAULIC; NORMALLY CLOSED, INCLUDING REQUIRED FITTINGS AND ACCESSORIES.
- E. WIRE CONDUCTORS: COPPER CONDUCTOR, DIRECT BURIAL TYPE.
- F. RAIN SENSORS: PER SELECTED MANUFACTURER.
- 2.5 ELECTRICAL CHARACTERISTICS AND COMPONENTS
- A. ELECTRICAL CHARACTERISTICS: 1. 120 VOLTS, SINGLE PHASE, 60 HZ.
- B. DISCONNECT SWITCH: FACTORY MOUNT DISCONNECT SWITCH IN CONTROL PANEL.

## PART 3 EXECUTION

- B. VERIFY REQUIRED UTILITIES ARE AVAILABLE, IN PROPER LOCATION, AND

#### 3.2 PREPARATION

- C. REVIEW LAYOUT REQUIREMENTS WITH OTHER AFFECTED WORK COORDINATE LOCATIONS OF SLEEVES UNDER PAVING TO ACCOMMODATE

#### A. TRENCH SIZE:

- 1. MINIMUM COVER OVER INSTALLED SUPPLY PIPING: 18 INCHES.
- C. MAINTAIN TRENCHES FREE OF DEBRIS, MATERIAL, OR OBSTRUCTIONS
- B. SET OUTLETS AND BOX COVERS AT FINISH GRADE ELEVATIONS.
- C. PROVIDE FOR THERMAL MOVEMENT OF COMPONENTS IN SYSTEM.
- E. USE THREADED NIPPLES FOR RISERS TO EACH OUTLET.
  - RECOMMENDED INSTALLATION PRACTICES. PROVIDE 10 INCH EXPANSION COIL AT EACH CONTROL VALVE, AND AT 100 FT INTERVALS. BURY WIRE BESIDE PIPE. MARK VALVES WITH NEOPRENE VALVE MARKERS CONTAINING LOCKING DEVICE. SET VALVE MARKERS IN VALVE BOXES SET TO FINISH
- G. AFTER PIPING IS INSTALLED, BUT BEFORE OUTLETS ARE INSTALLED AND BACKFILLING COMMENCES, OPEN VALVES AND FLUSH SYSTEM WITH FULL HEAD OF WATER.

## 3.5 BACKFILLING

- A. BACKFILL WITH COMPACTED BACKFILL IN ACCORDANCE WITH DETAIL A ON
- B. INSTALL 3 INCH SAND BEDDING BELOW AND COVER OVER PIPING.

- SHUTDOWN.

### 3.7 ADJUSTING

- A. ADJUST CONTROL SYSTEM TO ACHIEVE TIME CYCLES REQUIRED
- B. ADJUST HEAD TYPES FOR FULL WATER COVERAGE AS DIRECTED BY OWNER'S REPRESENTATIVE.

SYSTEM, INCLUDING ADJUSTING OF SPRINKLER HEADS. USE OPERATION AND MAINTENANCE MATERIAL AS BASIS FOR DEMONSTRATION.



#### 3.1 EXAMINATION

- A. VERIFY LOCATION OF EXISTING UTILITIES.
- READY FOR USE.

- A. ROUTE PIPING TO AVOID PLANTS, GROUND COVER, AND STRUCTURES.
- B. LAYOUT AND STAKE LOCATIONS OF SYSTEM COMPONENTS.
- SYSTEM.

#### 3.3 TRENCHING

- 2. MINIMUM COVER OVER INSTALLED BRANCH PIPING: 15 INCHES.
- B. TRENCH TO ACCOMMODATE GRADE CHANGES AND SLOPE TO DRAIN(S).
- DAMAGING TO PIPE.

#### 3.4 INSTALLATION

- A. CONNECT TO UTILITIES.

- D. SLOPE PIPING FOR SELF DRAINAGE TO DAYLIGHT.
- F. INSTALL CONTROL WIRING IN ACCORDANCE WITH MANUFACTURER'S

- SHEET C-7.1.
- C. PROTECT PIPING FROM DISPLACEMENT.

### 3.6 FIELD QUALITY CONTROL

- A. PRIOR TO BACKFILLING, TEST SYSTEM FOR LEAKAGE FOR WHOLE SYSTEM TO MAINTAIN 100 PSI PRESSURE FOR ONE HOUR.
- B. SYSTEM IS ACCEPTABLE WHEN NO LEAKAGE OR LOSS OF PRESSURE OCCURS DURING TEST PERIOD.
- C. PROVIDE ONE COMPLETE SPRING SEASON START-UP AND FALL SEASON

SCALE: 1"=20'

### 3.8 DEMONSTRATION AND TRAINING

A. INSTRUCT OWNER'S PERSONNEL IN OPERATION AND MAINTENANCE OF



Call before you dig.

PROJECT PROPOSED PT20M BUILDING

> HOLLYWOOD DR. LEE'S SUMMIT, MO 64082

> > SHEET TITLE

NEQ HWY 150 & SW

IRRIGATION PLAN

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REVISION/DATE/DESCRIPTION

01/24/22

02/24/22

03/29/22

06/29/22

08/30/22

SIR UPDATES

PDP APPLICATION

RESPONSE TO CITY

DEVELOPMENT SET

COMMENTS I

RESPONSE TO

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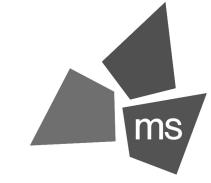
OTHERWISE ARE HEREBY SPECIFI-

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FDP COMMENTS

60% SET

DRAWN BY: CHECKED BY: 40497-21 PROJECT NO:



REFERENCED STANDARD

ACI 318: 3.5, 7.1-7.7

AWS D1.4, ACI 318: 3.5.2

ACI 318: 3.8.6, 8.1.3, 21.2.8

ASTM C 172, ASTM C31, ACI 318: 5.6, 5.8

ACI 318: CH. 4, 5.2-5.4

ACI 318: 5.9, 5.10

ACI 318: 5.11-5.13

ACI 318: 6.1.1

AISC 360 CH. N

AISI 240 CH. D

ACI 318: 6.2

ACI 318: 8.1.3, 21.2.8

IBC REFERENCE

1910.4

1909.1

1910.10

1910.9

1908.5, 1909.1

1904.2, 1910.2, 1910.3

1910.6, 1910.7, 1910.8

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PROFESSIONAL OF RECORD: CRAIG E. METZGER NO. 2019031268 EXP DATE: 12/31/23

	REV	DESCRIPTION	DATE

40497-21 Project No.: Client Project No.:

Drawing Title:

SYMBOLS, ABBREVIATIONS & SPECIAL INSPECTIONS

PERMIT SET Date: 06.29.2022 Phase: Designed: DMS Drawing No.: Drawn: CLS Checked: CEM

INCH (-ES)

INTERIOR

INFORMATION

INFO

INT

WEIGHT, STRUCTURAL TEE CUT FROM WIDE

WITH

W/O

WITHOUT

**WORK POINT** 

FLANGE BEAM

## **FOUNDATION NOTES**

GEOTECHNICAL REPORT.

- REFER TO THE GEOTECHNICAL REPORT AND SPECIFICATIONS FOR GENERAL REQUIREMENTS OF EARTHWORK, OVER
- ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES ACI 318: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, LATEST EDITION
- AISC 360: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION

ASCE 7-16: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

- AISC MANUAL OF STEEL CONSTRUCTION, LATEST EDITION
- AISI 2007: SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
- AMERICAN WELDING SOCIETY, WELDING CODES

**GENERAL NOTES** 

A. 2018 INTERNATIONAL BUILDING CODE

BUILDING AND DESIGN CODES:

TMS 402/ACI 530/ASCE 6: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, LATEST EDITION

20 PSF

115 MPH (ULTIMATE)

NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION, LATEST EDITION

#### OCCUPANCY CATEGORY

ROOF

- LIVE LOADS:
- A. FLOOR 100 PSF
- WIND LOADS
- BASIC WIND SPEED (3 SECOND GUST) IMPORTANCE FACTOR, I
- C. EXPOSURE CATEGORY
- INTERNAL PRESSURE COEFFICIENT, GCpi +/- 0.18
- DESIGN WIND PRESSURES (COMPONENTS & CLADDING)

	`	,					
		SURFACE PRESSURE (PSF)					
		10 SF AREA	20 SF AREA	50 SF AREA			
ROOF ZONES	1. INTERIOR	+16.0 / -46.8	+16.0 / -73.4	+16.0 / -73.4			
ZONES	2. END	+16.0 / -44.1	+16.0 / -69.7	+16.0 / -69.7			
	3. CORNER	+16.0 / -38.0	+16.0 / -61.2	+16.0 / -61.2			
WALL	4. INTERIOR	+32.0 / -32.0	+32.0 / -32.0	+29.4 / -30.3			
ZUNES	5. END	+32.0 / -58.6	+32.0 / -58.6	+29.4 / -51.8			

- (+) VALUES INDICATE PRESSURES TOWARDS THE BUILDING. (-) VALUES INDICATE PRESSURES AWAY FROM THE
- FOR SMALLER TRIBUTARY AREAS, LOADS WILL BE LARGER THAN SHOWN. CALCULATE PER CODE REQUIREMENTS. WIDTH OF END ZONES

## ANALYSIS PROCEDURE

- **ENVELOPE PROCEDURE FOR LOW-RISE BUILDINGS**
- SNOW LOADS
- A. GROUND SNOW LOAD, Pa 20 PSF
- SNOW EXPOSURE FACTOR, Ce IMPORTANCE FACTOR, I
- THERMAL FACTOR, C
- SEISMIC LOADS:
  - IMPORTANCE FACTOR, I RISK CATEGORY
  - MAPPED SPECTRAL RESPONSE ACCELERATIONS  $S_S = 0.101$  $S_1 = 0.069$
- D. SITE CLASS
- DESIGN SPECTRAL RESPONSE ACCELERATIONS  $S_{D1} = 0.069$
- F. SEISMIC DESIGN CATEGORY
- G. BASIC SEISMIC FORCE RESISTING SYSTEM N/S DIRECTION: STEEL ORDINARY MOMENT FRAME E/W DIRECTION: PLYWOOD SHEAR WALLS
- DESIGN BASE SHEAR  $V = Cs \times W$ SEISMIC RESPONSE COEFFICIENT  $N/S: C_S = 0.025$  $E/W: C_S = 0.011$ 
  - RESPONSE MODIFICATION FACTOR N/S: R = 3.5E/W: R = 6.5
- K. ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE PROCEDURE

## GENERAL REQUIREMENTS

- SPECIFICATIONS ARE PART OF THE CONSTRUCTION DOCUMENTS AND MUST BE USED IN CONJUNCTION WITH THE DRAWINGS. WHERE REQUIREMENTS INDICATED ON THE STRUCTURAL DRAWINGS DIFFER FROM THE SPECIFICATIONS,
- VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING WORK OR FABRICATING MATERIALS. NOTIFY A/E OF DISCREPANCIES BEFORE PROCEEDING WITH ANY PHASE OF WORK.
- VERIFY WITH OTHER DISCIPLINE DRAWINGS THE LOCATION OF CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS, AND WALL OPENINGS.
- DO NOT SCALE DRAWINGS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS.
- 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 A/E OF CONFLICTS REGARDING APPLICABILITY OF "TYPICAL DETAILS".
- DO NOT LOAD THE SLAB-ON-GRADE OR SUPPORTED SLAB WITH ERECTION CRANES OR ERECTION EQUIPMENT. THE SLABS HAVE NOT BEEN DESIGNED FOR CRANE LOADS AND WILL REQUIRE AN INCREASE IN THICKNESS AND/OR REINFORCEMENT. SUBMIT FOR A/E REVIEW A PROPOSED CRANE SUPPORT PLAN FOR SLABS PRIOR TO COMMENCING WORK.
- DO NOT STORE OR STACK CONSTRUCTION MATERIALS ON SUPPORTED SLABS, ELEVATED FLOORS, OR ROOFS IN EXCESS OF 80 PERCENT OF LIVE LOAD. GENERAL CONTRACTOR WILL BE RESPONSIBLE AND ENSURE THAT ALL SUB-CONTRACTORS ARE INFORMED AND DO NOT VIOLATE THIS IMPORTANT REQUIREMENT. AVOID IMPACT WHEN PLACING MATERIALS ON POURED OR ERECTED FLOORS OR ROOF.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS INDICATED OTHERWISE, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION. PROVIDE ALL MEASURES REQUIRED TO PROTECT THE STRUCTURE, WORKMEN AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, FORMS AND SCAFFOLDING, SHORING OF RETAINING WALLS AND OTHER TEMPORARY SUPPORTS AS REQUIRED.
- PRINCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON DRAWINGS. EXAMINE THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR THE REQUIRED OPENINGS AND PROVIDE FOR REQUIRED OPENINGS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH THE MECHANICAL CONTRACTOR. BRING ANY DEVIATION FROM THE OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS TO THE ENGINEER'S ATTENTION FOR APPROVAL
- COORDINATE AND PROVIDE ALL MISCELLANEOUS FRAMING MEMBERS SHOWN ON THE ARCHITECTURAL DRAWINGS. THESE MEMBERS MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.
- ARCHITECTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS AND SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED

TO RESIST SEISMIC FORCES AS DETERMINED IN CHAPTER 13 OF ASCE 7.

- EXCAVATION, SUBGRADE PREPARATION, FILL AND COMPACTION, WATERPROOFING AND OTHER PERTINENT REQUIREMENTS AND
- FOUNDATION DESIGNS AND SUBGRADE PREPARATION ARE BASED UPON THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT NUMBER 02215334 BY TERRACON, DATED 12/14/2021.
- FOOTING DESIGNS ARE BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2500 PSF (FACTOR OF SAFETY = 3). THE ALLOWABLE SOIL BEARING PRESSURE MAY BE INCREASED BY ONE-THIRD WHEN CONSIDERING TOTAL LOADS, INCLUDING LOADS OF SHORT DURATION SUCH AS WIND FORCES. FOOTINGS SHALL BEAR IN SPECIFIED BEARING MATERIAL AS NOTED IN THE
- CONTRACTOR AND TESTING LABORATORY REPRESENTATIVE SHALL READ THE GEOTECHNICAL REPORT AND BECOME THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT QUANTITIES OF CUT AND FILL FOR ESTIMATING AND CONSTRUCTION. SUBGRADE SHALL BE PREPARED AS NOTED IN THE
- ARRANGE FOR OWNER'S INDEPENDENT TESTING AGENCY TO MONITOR CUT AND FILL OPERATIONS, AND PERFORM FIELD DENSITY AND MOISTURE CONTENT TESTS TO VERIFY COMPACTION AND APPROVE FOOTING SUBGRADE PRIOR TO PLACING CONCRETE. CUT AND FILL OPERATIONS SHALL BE INSPECTED AND APPROVED BY A GEOTECHNICAL ENGINEER LICENSED IN THE
- STATE WHERE THE PROJECT IS LOCATED. A QUALIFIED AND REGISTERED GEOTECHNICAL ENGINEER, LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED AND WORKING FOR THE TESTING LABORATORY, SHALL DETERMINE CONFORMANCE OF THE FOUNDATION BEARING STRATA WITH THE FOUNDATION DESIGN CRITERIA ABOVE, AND ALL OTHER CONTRACT DOCUMENTS, AND VERIFY SIZE, REINFORCING STEEL, THICKNESS, EMBEDMENT DEPTH, AND REMOVAL OF CUT MATERIAL. TESTING LABORATORY SHALL NOTIFY CONTRACTOR AND A/E
- USE ONLY STRUCTURAL FILL MATERIAL AS NOTED IN THE GEOTECHNICAL REPORT FOR FILL BELOW THE BUILDING. EXTEND FILL AT LEAST FIVE FEET BEYOND THE BUILDING PERIMETER ON ALL SIDES. REFER TO THE GEOTECHNICAL REPORT FOR THE DEPTH OF THE STRUCTURAL FILL MATERIAL AND COMPACTION REQUIREMENTS.

OF ANY CONDITIONS NOT IN ACCORDANCE WITH FOUNDATION DESIGN CRITERIA OR CONTRACT DOCUMENTS.

- MAINTAIN SUBGRADE AND FILL MOISTURE CONTENT UNTIL FOUNDATIONS ARE PLACED.
- DO NOT PLACE GRADE BEAMS, WALLS, FOOTINGS OR SLABS AGAINST SUBGRADE CONTAINING FREE WATER, FROST, OR ICE.
- MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION TO ENSURE SURFACE RUNOFF AWAY FROM STRUCTURES AND TO PREVENT PONDING OF SURFACE RUNOFF NEAR THE STRUCTURES.
- KEEP OPEN EXCAVATIONS AROUND BUILDING DRY. BACKFILL AGAINST FOUNDATIONS AND GRADE BEAMS AS SOON AS PRACTICAL. PUMP WATER OUT OF OPEN EXCAVATIONS IF FLOODING OCCURS PRIOR TO BACKFILLING.
- PROTECT PIPES AND CONDUITS RUNNING THRU WALLS AND SLABS WITH 1/2 INCH EXPANSION MATERIAL. LOWER CONTINUOUS FOOTINGS AND GRADE BEAMS PERPENDICULAR TO PIPE RUNS, TO ALLOW PIPES TO PASS ABOVE THE FOOTINGS OR THOUGH THE GRADE BEAMS. ALTERNATIVELY, PROVIDE A CONCRETE JACKET IF PIPES ARE LOW ENOUGH TO BE PLACED BELOW THE FOOTINGS AND GRADE BEAMS. LOWER FOOTINGS AND GRADE BEAMS PARALLEL TO PIPE RUNS TO AVOID SURCHARGE ONTO ADJACENT TRENCH EXCAVATIONS.
- 13. PLACE FOUNDATIONS WITHIN 8 HOURS AFTER EXCAVATION. DO NOT LEAVE EXCAVATION OPEN OVERNIGHT.
- AVOID DAMAGING EXISTING UNDERGROUND UTILITIES SUCH AS WATER MAINS, SANITARY SEWERS, BURIED CABLES, ETC., WHICH MIGHT EXTEND ACROSS OR ADJOING THE SITE.
- REFER TO CIVIL DRAWINGS FOR LIMITS OF EXCAVATIONS.

## **CONCRETE NOTES**

THE STRUCTURAL ENGINEER.

- PROVIDE CONCRETE AS SHOWN BELOW. PROVIDE BATCH MIXING, TRANSPORTATION, PLACING AND CURING OF CONCRETE IN ACCORDANCE WITH RECOMMENDATIONS OF ACI 301, ACI 318 AND ASTM C94. USE TYPE I PORTLAND CEMENT UNLESS OTHERWISE NOTED. PROVIDE ADMIXTURES AND SPECIAL REQUIREMENTS AS SPECIFIED
- A. NORMAL WEIGHT (150 PCF), F'c = 3,000 PSI CONCRETE AT 28 DAYS
  - SLAB-ON-GRADE, GRADE BEAMS, FOOTINGS b. ALL CONCRETE NOT SPECIFICALLY COVERED
- REFER TO THE SPECIFICATIONS FOR MAXIMUM WATER/CEMENT RATIOS, MINIMUM CEMENT CONTENTS AND OTHER MIX DESIGN REQUIREMENTS. PROVIDE CONCRETE MIXES DESIGNED BY A QUALIFIED TESTING LABORATORY FOR REVIEW AND APPROVAL BY
- PROVIDE CONSTRUCTION AND CONTROL JOINTS AS INDICATED ON THE DRAWINGS. HORIZONTAL CONSTRUCTION JOINTS ARE NOT ALLOWED UNLESS SPECIFICALLY NOTED OR APPROVED BY THE STRUCTURAL ENGINEER. NOTIFY THE STRUCTURAL ENGINEER OF PROPOSED CONSTRUCTION JOINT OR CONTROL JOINT LOCATIONS WHICH ARE DIFFERENT OR IN ADDITION TO JOINTS INDICATED ON THE DRAWINGS. PROVIDE 6,000-SQUARE FOOT MAXIMUM AREA OF CONCRETE PLACEMENT IN THE SLAB BETWEEN CONSTRUCTION JOINTS. PROVIDE 75-FOOT MAXIMUM SPACING OF CONSTRUCTION JOINTS IN GRADE BEAMS. PROVIDE GRADE BEAM CONSTRUCTION JOINTS IN MIDDLE 1/3 OF THE SPAN. WHEN A BEAM INTERSECTS A GIRDER WITHIN THE MIDDLE 1/3

OF THE GIRDER'S SPAN, OFFSET THE JOINT IN THE GIRDER A DISTANCE EQUAL TO TWICE THE WIDTH OF THE BEAM.

- WHERE DOWELS ARE SHOWN ON THE DRAWINGS, BUT NOT SIZED, PROVIDE DOWELS THAT MATCH SIZE AND LCOATION OF MAIN REINFORCING STEEL AND LAP SPLICE WITH THE MAIN REINFORCING STEEL. REINFORCING BARS SHALL BE SPLICED AS NOTED IN THE REINFORCING LAP SCHEDULE.
- CHAMFER EXPOSED EDGES 3/4 INCH UNLESS OTHERWISE NOTED.
- WIRE BRUSH AND CLEAN CONSTRUCTION JOINTS PRIOR TO POURING NEW CONCRETE.
- REFERENCE THE APPROPRIATE DISCIPLINE'S DRAWINGS FOR SUB SLAB PIPING, FLOOR DRAINS, AND SLAB AND WALL
- PROVIDE ADEQUATE STRUCTURAL FRAMING AS APPROVED BY THE STRUCTURAL ENGINEER FOR MECHANICAL OPENINGS THROUGH THE SLABS, WALLS, AND FLOOR DECK. OPENINGS ARE NOT PERMITTED THROUGH BEAMS UNLESS SPECIFICALLY DETAILED.
- FOR PIPE INSTALLED HORIZONTALLY WITHIN SLABS, UNLESS SPECIFICALLY INDICATED IN THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER. FOR PIPES INSTALLED HORIZONTALLY WITHIN THE SLAB, PROVIDE MAXIMUM OUTSIDE DIAMETER OF 30 PERCENT OF THE SLAB THICKNESS. PLACE CONDUIT OR PIPE BETWEEN THE TOP AND BOTTOM LAYERS OF REINFORCEMENT WITHIN THE CENTER THIRD OF THE SLAB. DO NOT SPACE CONDUITS OR PIPES CLOSER THAN 3 DIAMETERS OR WIDTHS ON CENTER.

## REINFORCING STEEL NOTES

- PROVIDE DETAILING, FABRICATION, AND INSTALLATION OF REINFORCING AND ACCESSORIES IN ACCORDANCE WITH ACI 315 AND
- COORDINATE PLACEMENT OF CAST-IN-PLACE EMBEDS AND ANCHOR RODS. SET ANCHOR RODS WITH A TEMPLATE. SECURELY ATTACH EMBED ITEMS TO FORMWORK OR REINFORCING.
- PROVIDE CLASS "B" REINFORCEMENT SPLICES FOR CONTINUOUS REINFORCEMENT. PROVIDE STANDARD 90-DEGREE HOOKS IN ACCORDANCE WITH ACI 318, UNLESS OTHERWISE NOTED. STAGGER SPLICES UNLESS SPECIFICALLY NOTED.
- MAINTAIN THE FOLLOWING CONCRETE COVERAGE FOR REINFORCING STEEL UNLESS OTHERWISE NOTED
- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3 INCHES
- CONCRETE EXPOSED TO WEATHER a. NO. 6 AND LARGER - 2 INCHES
- b. NO. 5 AND SMALLER 1-1/2 INCHES
- CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND
  - a. SLABS AND WALLS NO. 14 AND NO. 18 - 1-1/2 INCHES
  - NO. 11 AND SMALLER 3/4 INCH b. BEAM STIRRUPS - 1-1/2 INCHES
- DO NOT WELD OR BEND REINFORCEMENT IN THE FIELD UNLESS SPECIFICALLY SHOWN OR APPROVED BY STRUCTURAL
- WHEN SPECIFICALLY APPROVED, PROVIDE WELDED REINFORCEMENT IN ACCORDANCE WITH ASTM A706. USE LOW HYDROGEN ELECTRODES FOR WELDING OF REINFORCEMENT IN CONFORMANCE WITH "WELDING REINFORCEMENT STEEL, METAL INSERTS AND CONNECTIONS IN REINFORCED CONCRETE CONSTRUCTION", AMERICAN WELDING SOCIETY, AWS D1.4.
- INTERSECTIONS AS SHOWN ON TYPICAL BAR PLACING DETAILS. PROVIDE BAR SUPPORT ACCESSORIES IN ACCORDANCE WITH THE LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES. SUPPORT BEAM REINFORCING ON BEAM BOLSTERS SPACED NOT MORE THAN 4 FEET ON

PROVIDE CONTINUOUS HORIZONTAL WALL REINFORCEMENT WITH 90-DEGREE BENDS AND EXTENSIONS AT CORNERS AND

PROVIDE BAR SUPPORTS WITH PLASTIC COATED LEGS OR HOT DIP GALVANIZING AFTER FABRICATION FOR CONCRETE EXPOSED TO VIEW. PROVIDE STAINLESS STEEL BAR SUPPORTS FOR CONCRETE TO RECEIVE A SANDBLAST FINISH.

- **POST-INSTALLED ANCHOR NOTES**
- ANCHORS INSTALLED IN HARDENED CONCRETE TO BE USED ONLY WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS CONTRACTOR SHALL OBTAIN APPROVAL FROM THE A/E PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. PLACE POST-INSTALLED ANCHORS SUCH THAT THEY AVOID CONFLICTING WITH EXISTING REBAR. WHERE INDICATED, PROVIDE THE FOLLOWING POST-INSTALLED ANCHOR:
  - EPOXY ADHESIVE ANCHORS: SIMPSON SET-3G FOR ANCHORAGE TO CONCRETE
  - ALLOWABLE ANCHOR SUBSTITUTIONS SHALL BE SUBMITTED TO THE A/E WITH INFORMATION DEMONSTRATING THAT THE ANCHOR SUBSTITUTION PROVIDES EQUAL OR GREATER PERFORMANCE VALUES.
  - INSTALL ANCHORS IN ACCORDANCE WITH THE CURRENT ICBO REPORT FOR THE ANCHORS AND THE MANUFACTURER'S RECOMMENDATIONS. ALL ANCHORS SHALL BE INSTALLED BY A MANUFACTURER CERTIFIED INSTALLER.
- INSTALL ANCHORS PERPENDICULAR TO THE FACE OF THE CONCRETE. DEVIATION FROM PERPENDICULAR GREATER THAN 10
- DEGREES IS UNACCEPTABLE. CREATE A TEMPLATE AT EACH ANCHOR CONNECTION LOCATION PRIOR TO FABRICATING HOLES IN CONNECTION PLATES. MAKE TEMPLATE BY LOCATING EXISTING REBAR WITH THE HELP OF A PACHOMETER. REPOSITION ANCHORS A MAXIMUM OF 1 1/2
- FILL ALL ABANDONED HOLES WITH EPOXY GROUT.
- PROVIDE HOLES IN CONNECTION PLATES NO MORE THAN 1/16 OF AN INCH LARGER THAN THE ANCHOR DIAMETER. IF LARGER HOLES ARE NEEDED FOR ERECTION PURPOSES, PROVIDE PLATE WASHERS WELDED TO THE CONNECTION PLATE TO TRANSFER THE BOLT LOAD.
- CLEAN DRILLED HOLES FREE OF DEBRIS/DUST AND INSPECT PRIOR TO APPLYING EPOXY AND INSTALLING ANCHORS.

## STRUCTURAL STEEL NOTES

INCHES AS REQUIRED TO AVOID CONFLICTS WITH EXISTING REINFORCEMENT.

- PROVIDE STRUCTURAL STEEL OF THE FOLLOWING ASTM DESIGNATIONS UNLESS OTHERWISE NOTED:
- STRUCTURAL STEEL WIDE FLANGE AND WT SHAPES ASTM A 992 (GRADE 50)
- STRUCTURAL STEEL STANDARD SHAPES, CHANNELS AND ANGLES ASTM A 36 C. EDGE ANGLES, BENT PLATES, HANGER AND BRACES - ASTM A 36
- D. STRUCTURAL PIPE ASTM A 53, GRADE B
- E. STRUCTURAL TUBING (SQUARE OR RECTANGULAR) ASTM A 500, GRADE C
- BASE PLATES AND MISCELLANEOUS STEEL PLATES ASTM A 36
- CONNECTION MATERIALS:
- BEAM COLUMN STIFFENER PLATES AND DOUBLER PLATES TO MATCH THE GRADE STEEL OF STRUCTURAL
- ALL CONNECTION MATERIALS, EXCEPT AS OTHERWISE NOTED HEREIN OR IN THE DRAWINGS, INCLUDING BEARING PLATES, GUSSET PLATES, STIFFENER PLATES, ANGLES, ETC. - ASTM A 36
- HIGH STRENGTH BOLTS ASTM A 325 OR ASTM F1852
- HARDENED STEEL WASHERS ASTM F 436
- ANCHOR RODS ASTM F1554, GRADE 55
- HEAVY HEX NUTS ASTM A 563
- HEADED STUD ANCHORS TO CONFORM TO THE REQUIREMENTS OF ASTM A 29/A 29M, AWS D1.1, AND SECTION A3.6 OF AISC 360 SPECIFICATION.
- WELD MINIMUM SIZE AND STRENGTH
- PROVIDE MINIMUM SIZE OF FILLET WELDS AS SPECIFIED IN TABLE J2.4 OF THE AISC MANUAL. USE 1/4 INCH FILLET WELD
- PROVIDE MINIMUM EFFECTIVE THROAT THICKNESS OF PARTIAL PENETRATION GROOVE WELDS AS SPECIFIED IN TABLE
- DEVELOP THE FULL TENSILE STRENGTH OF THE MEMBER ELEMENT JOINED ON ALL SHOP AND FIELD WELDS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- WHERE CONNECTIONS ARE NOTED ON DRAWINGS AS MOMENT CONNECTIONS, PROVIDE WELDS TO DEVELOP FULL FLEXURAL CAPACITY OF THE LESSER MEMBER.
- PROVIDE ELECTRODES FOR FIELD OR SHOP WELDING THAT CONFORM TO AWS D1.1 CLASS E70XX. PROVIDE MINIMUM OF TWO BOLTS PER CONNECTION. MINIMUM BOLT DIAMETER TO BE 3/4 INCH.
- PROVIDE BOLTS, NUTS AND WASHERS THAT ARE HOT DIP GALVANIZED ACCORDING TO ASTM A 153, CLASS C WHEN USED TO CONNECT STEEL ELEMENTS THAT ARE HOT DIP GALVANIZED AFTER FABRICATION.
  - PROVIDE SIMPLE SHEAR CONNECTIONS FOR STEEL CONNECTIONS NOT OTHERWISE SPECIFIED UTILIZING HIGH STRENGTH BEARING BOLTS IN SINGLE OR DOUBLE SHEAR. PROVIDE DOUBLE ANGLE OR SINGLE PLATE SHEAR TAB BOLTED CONNECTIONS.

UNLESS LARGER REACTION IS SHOWN ON DRAWINGS, PROVIDE MINIMUM DESIGN FORCES AS FOLLOWS:

- NONCOMPOSITE BEAMS: BEAM-TO-BEAM OR BEAM-TO-COLUMN CONNECTION TO DEVELOP THE REACTION OF CONNECTED BEAM. OBTAIN END REACTION FROM UNIFORM LOAD TABLES OF THE AISC MANUAL OF STEEL CONSTRUCTION. PROVIDE MINIMUM SHEAR CAPACITY OF 12,000 POUNDS FOR BEAMS 8 INCHES AND 10 INCHES DEEP. PROVIDE MINIMUM SHEAR CAPACITY OF 8,000 POUNDS FOR BEAMS LESS THAN 8 INCHES DEEP.
- ADD TO REACTIONS LISTED ABOVE LOADS OR REACTIONS OF MEMBERS SUPPORTED BY BEAM WITHIN THREE FEET OF BEAM END AND VERTICAL COMPONENTS OF FORCES IN BRACE MEMBERS FRAMING INTO BEAM.
- STEEL FABRICATION FABRICATE AND ASSEMBLE STRUCTURAL MEMBERS/ASSEMBLIES IN SHOP TO GREATEST EXTENT POSSIBLE.
- CAMBER OF STRUCTURAL STEEL MEMBERS IS INDICATED ON THE DRAWINGS. WHERE POSSIBLE, CAMBER OF BEAMS TO BE APPLIED BY COLD BEND PROCESS. CAMBER INDICATED ON DRAWINGS ARE INTENDED TO BE FINAL CAMBER AT TIME
- OF ERECTION, AND WITHIN A TOLERANCE OF MINUS ZERO TO PLUS 1/8 INCH FOR EACH TEN FEET OF MEMBER LENGTH. C. SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL BY THE A/E.
- STEEL FABRICATOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING ON THE SHOP DRAWINGS, ERRORS IN FABRICATION, AND THE CORRECT FITTING OF STRUCTURAL STEEL MEMBERS.
- CONFORM TO THE AISC CODE OF STANDARD PRACTICE, FOR ERECTION TOLERANCES. FIELD MODIFICATION TO STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR APPROVAL BY THE A/E.
- CLEAN STEEL OF RUST, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS WHERE REQUIRED FOR FABRICATION, FITTING UP, DO NOT CUT STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT PRIOR REVIEW AND APPROVAL OF THE
- AFTER FABRICATION, HOT DIP GALVANIZE STRUCTURAL STEEL AND THEIR CONNECTIONS PERMANENTLY EXPOSED TO THE OUTSIDE. SUCH ITEMS INCLUDE BUT ARE NOT LIMITED TO:
- SHELF ANGLES PARAPET WALL SUPPORTING MEMBERS
- SCREEN WALL SUPPORTING MEMBERS
- EMBEDDED PLATES IN CONCRETE BUILDING CLADDING SUPPORT STEEL

ELEMENTS TO THE COLUMNS IS PROHIBITED.

- ALL OTHER STEEL MEMBERS EXPOSED TO WEATHER
- EXAMINE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR OTHER ITEMS THAT REQUIRE HOT DIPPED GALVANIZATION. PROVIDE NON-SHRINK/NON-METALLIC GROUT FOR BASE PLATES WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 8000 PSI.
- 13. SUBMIT CALCULATIONS FOR CONNECTION DESIGNS NOT DETAILED ON DRAWINGS. DESIGN CONNECTIONS UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS MUST INCLUDE WELDING PROCEDURES, TESTING PROGRAMS FOR WELDING AND HIGH STRENGTH BOLTING, COATING MATERIAL, AND ERECTION SEQUENCE ON SHOP DRAWINGS. MILL STEEL COLUMN ENDS TO FIT FLUSH WITH BASE PLATE, CAP PLATE, AND END PLATES, FIELD ASSEMBLY OF THESE STEEL

THE STRUCTURAL STEEL FABRICATOR MUST FURNISH STEEL SHOP DRAWINGS FOR ARCHITECT'S AND STRUCTURAL ENGINEER'S

BE RESPONSIBLE FOR ANY TEMPORARY SHORING OR BRACING DURING CONSTRUCTION PHASE PRIOR TO COMPLETING CONNECTIONS AND POURING FLOOR SLABS.

# **WOOD FRAMING NOTES**

WOOD FRAMING SHALL MEET THE FOLLOWING MINIMUM STRESS PROPERTIES UNLESS NOTED OTHERWISE:

	MEMBER SIZE	BENDING F <sub>b</sub> (PSI)	TENSION PARALLEL TO GRAIN Ft (PSI)	SHEAR PARALLEL TO GRAIN F <sub>v</sub> (PSI)	COMPRESSION PERPENDICULAR TO GRAIN F <sub>c</sub> (PSI)	COMPRESSION PARALLEL TO GRAIN F <sub>c</sub> (PSI)	ELASTIC MODULUS E (PSI)
SOUTHERN PINE #2 OR	2x6	1,000	600	175	565	1,400	1,400,000
BETTER	2x10	800	475	175	565	1,300	1,400,000
	2x12	750	450	175	565	1,250	1,400,000
ROSBORO GLULAM X-BEAM	SEE DWGS	2,400	-	265	650	-	1,800,000

PROVIDE SIMPSON STRONG-TIE CONNECTORS OR EQUIVALENT FOR WOOD FRAMING CONNECTIONS TO SUPPORTING MEMBERS USE STRONG-TIE CONNECTORS AND NAILS OF APPROPRIATE SIZE AND CAPACITY FOR THE SUPPORTED MEMBER AND INSTALL ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

- ALL ROOF AND EXTERIOR WALL SHEATHING SHALL BE APA RATED CDX PLYWOOD WITH EXTERIOR GLUE (EXPOSURE 1) OR ORIENTED STRAND BOARD (OSB) WITH EXTERIOR GLUE (EXPOSURE 1), AND SHALL BEAR THE STAMP OF AN APPROVED TESTING
- INSTALL ROOF SHEATHING WITH THE LONG DIMENSION OF THE PANEL PERPENDICULAR TO SUPPORTS UNLESS NOTED OTHERWISE, AND WITH PANEL CONTIUOUS OVER TWO OR MORE SPANS. STAGGER END JOINTS.
- ALL ROOF SHEATHING SHALL BE APA RATED EXPOSURE 1 CDX PLYWOOD SHEATHING WITH A MINIMUM THICKNESS OF 5/8 INCH. DOC PS-1 OR PS-2, WITH A SPAN RATING OF AT LEAST 32/16 NAILED WITH 10d GALVANIZED COMMON NAILS AT 4 INCHES ON CENTER AT PANEL EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS. 10d NAILS SHALL HAVE A MINIMUM 0.148 INCH DIAMETER AND 1 1/2 INCHMINIMUM PENETRATION INTO SUPPORTING FRAMING.
- OUTSIDE OF EXTERIOR WALLS SHALL BE SHEATHED WITH APA RATED EXPOSURE 1 OSB OR CDX PLYWOOD SHEATHING WITH A MINIMUM THICKNESS OF 5/8 INCH, DOC PS-1 OR PS-2. REFER TO S5.4 FOR FASTENING REQUIREMENTS OF SHEAR WALLS IDENTIFIED ON S1.1. WALLS NOT IDENTIFIED AS SHEAR WALLS SHALL BE FASTENED TO WALL STUDS WITH 10d GALVANIZED COMMON NAILS AT 6 INCHES ON CENTER AT EDGES AND 12 INCHES IB CENTER AT INTERMEDIATE SUPPORTS. PROVIDE BLOCKING AT UNSUPPORTED PANEL EDGES. 10d NAILS SHALL HAVE A MINIMUM OF 0.148 INCH DIAMETER AND 1 1/2 INCH MINIMUM PENETRATION INTO SUPPORTING FRAMING.
- INSTALL JOISTS, RAFTERS, HEADERS AND BEAMS "CROWN UP."
- ALL JOISTS SHALL HAVE DIAGONAL BRIDGING OR FULL DEPTH BLOCKING AT 8 FEET ON CENTER MAXIMUM ALONG THE SPAN AND AT SUPPORTING BEAMS OR WALLS.
- CUTTING, BORING OR NOTCHING OF FRAMING MEMBERS, IF REQUIRED, SHALL CONFORM TO THE LIMITATIONS PRESCRIBED BY THE IBC AND MAY BE DISALLOWED FOR SOME FRAMING MEMBERS BY THE A/E.
- ALL WOOD IN CONTACT WITH CONCRETE AND EXTERIOR MASONRY SHALL BE PRESSURE TREATED.
- REFER TO THE IBC FOR MINIMUM FASTENING CRITERIA. ALL NAILS TO BE COMMON WIRE SIZE. NAILING SHALL COMPLY WITH REQUIREMENTS OF NAILING SCHEDULE UNLESS NOTED OTHERWISE.
- 12. MOISTURE CONTENT OF ALL WOOD MEMBERS SHALL NOT EXCEED 19%.

## PRE-ENGINEERED TRUSS NOTES

- ALL TRUSSES CALLED OUT IN THE DRAWINGS SHALL BE PRE-ENGINEERED, MANUFACTURED TRUSSES. TRUSSES SHALL CONFORM TO THE SPACING, DIMENSIONS AND LAYOUTS CALLED OUT IN THESE NOTES AND ON THE PLANS AND SHALL BE DESIGNED FOR SPECIFIED LOADINGS.
- MAXIMUM LIVE LOAD DEFLECTION FOR TRUSSES NOT TO EXCEED L/360. MAXIMUM TOTAL LOAD DEFLECTION NOT TO EXCEED L/240, WHICHEVER IS GREATER.
- PROVIDE FRAMING ANCHORS AND/OR TRUSS HANGERS AS REQUIRED AND AS SHOWN ON THE DRAWINGS. PROVIDE TRUSS SHOP DRAWINGS, INSTALLATION DRAWINGS, AND CALCULATIONS PREPARED BY THE TRUSS MANUFACTURER IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, ETC.

TRUSSES AND CONNECTOR PLATES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST REVISION OF THE TRUSS PLATE

INSTITUDE SPECIFICATIONS. TRUSS MANUFACTURER SHALL DESIGN THE TRUSS TO WALL CONNECTIONS, U.N.O. ON THE DETAILS.

- CONTINUOUSLY BRACE AND SUPPORT TRUSSES DURING UNLOADING TO PREVENT EXCESSIVE STRESS ON THE JOINTS. DO NOT PERMIT TRUSSES TO DROP, SAG, OR BE SUPPORTED IN A DIRECTION PERPENDICULAR TO THE TRUSS PLANE. INSTALL TRUSSES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, INCLUDING PROPER HANDLING, SAFETY PRECAUTIONS, TEMPORARY BRACING DURING ERECTION AND ALL OTHER SAFEGUARDS.
- INSTALL ALL PERMANENT CHORD BRACING REQUIRED BY TRUSS SHOP DRAWINGS (TYPICALLY 3 ROWS OF 2x4 FULL LENGTH OF

INSPECT ALL TRUSSES AFTER INSTALLATION FOR DAMAGE, NOTIFY A/E IMMEDIATELY OF DAMAGED TRUSSES, REMOVE AND

TRUSSES ARE A DEFERRED SUBMITTAL ITEM AND CONTRACTOR IS REQUIRED TO COMPLETE THE FOLLOWING: FIRST, THE TRUSS PLANS AND CALCULATIONS, SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED, SHALL BE SUBMITTED TO THE A/E FOR REVIEW BEFORE SUBMITTING TO THE BUILDING DEPARTMENT. SECOND, THE SHOP DRAWINGS SHALL BE SUBMITTED WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED BY THE A/E AND HAVE BEEN FOUND TO BE IN GENERAL

CONFORMANCE TO THE BUILDING DESIGN. THE TRUSS DESIGN SHALL BE APPROVED BY THE BUILDING DEPARTMENT

BEFORE THE TRUSSES ARE FABRICATED. GENERAL CONTRACTOR SHOULD PLAN FOR REVIEW TIME BY BOTH THE A/E AND

# METAL STUD FRAMING NOTES

OPENING AND SPACED AT 32" O.C. MAX. AROUND OPENING PERIMETER.

BUILDING OFFICIAL IN THE CONSTRUCTION SCHEDULE.

METAL STUDS USED AT THE COOK LINE WALL SHALL HAVE A YIELD STRENGTH OF 33KSI

STUD SIZE, GAUGE, AND CONNECTION SHALL BE PER DETAILS.

REPLACE ALL DAMAGED TRUSSES.

TRACK SIZE, GAUGE, AND CONNECTION SHALL BE PER DETAILS.

**BRICK TIE NOTES** 

- MASONRY (BRICK) VENEER SHALL BE ATTACHED WITH ADJUSTABLE WIRE TIES SPACED AT 16" O.C. VERTICALLY AND 16" O.C. HORIZONTALLY. ADDITIONAL TIES ALONG ALL OPENINGS GREATER THAN 16" ARE REQUIRED TO BE LOCATED WITHIN 12" OF
- BRICK TIES SHALL BE MANUFACTURED BY HOHMANN & BARNARD, INC MODEL NUMBER HB-213 OR APPROVED EQUAL.



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PROFESSIONAL OF RECORD: CRAIG E. METZGER NO. 2019031268 EXP DATE: 12/31/23

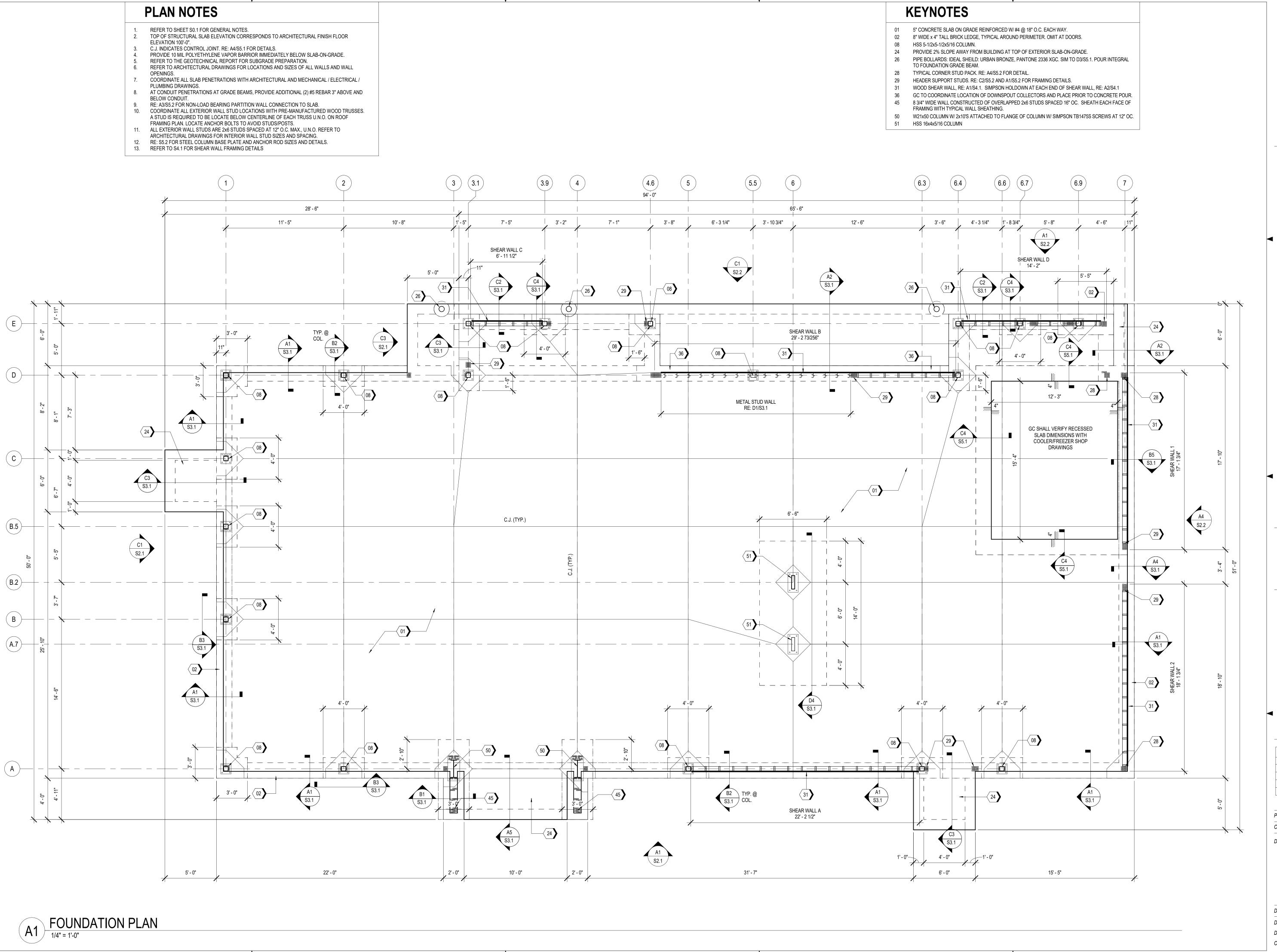
DESCRIPTION DATE

40497-21 Client Project No.:

**GENERAL NOTES** 

PERMIT SET Date: 06.29.2022

Designed: DMS Drawn: CLS Checked: CEM



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REV	DESCRIPTION	DATE

Project No.: 40497-21
Client Project No.:

Drawing Title

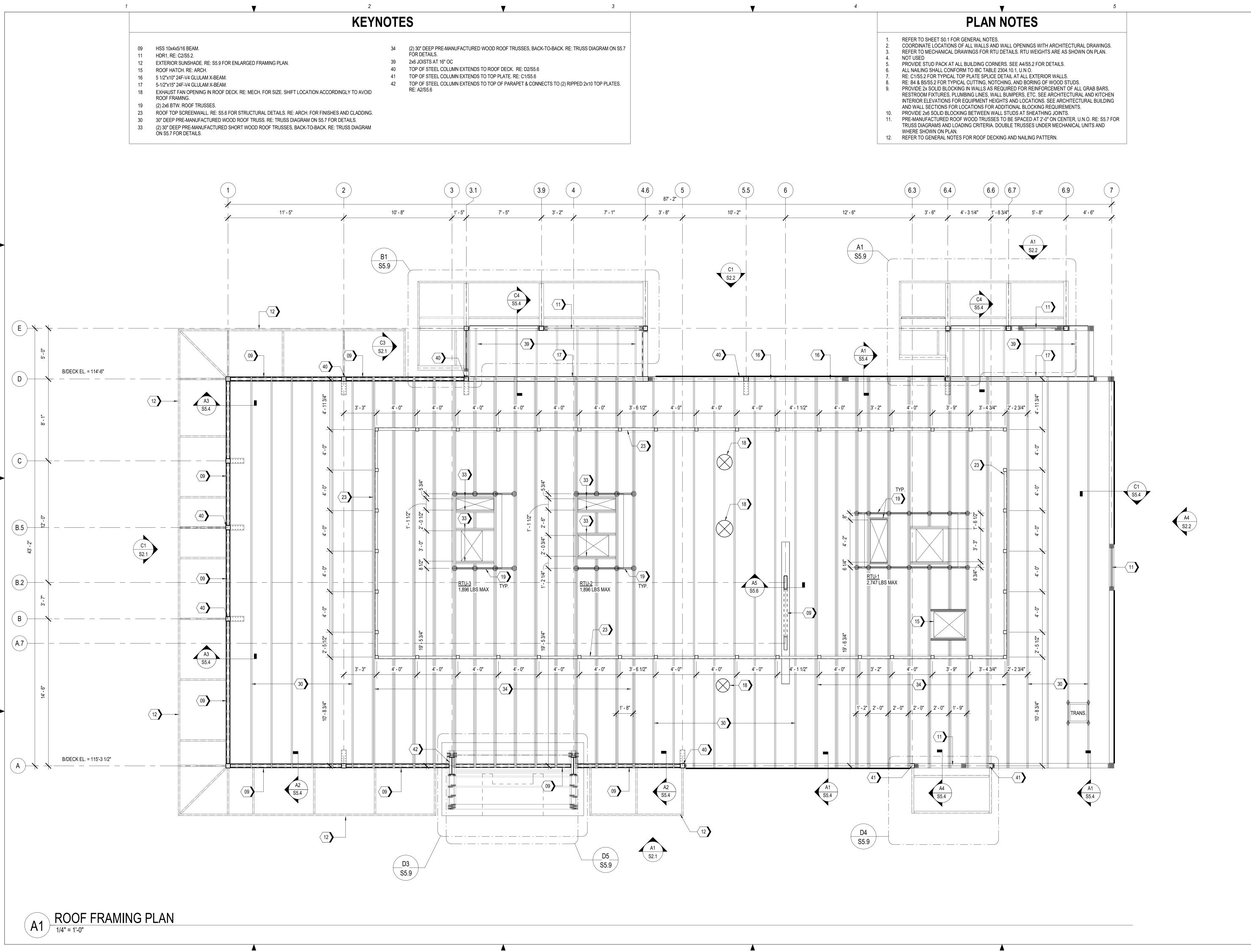
FOUNDATION PLAN

 Date:
 06.29.2022
 Phase:
 PERMIT SET

 Designed:
 DMS
 Drawing No.:

Drawn: CLS
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S1.1





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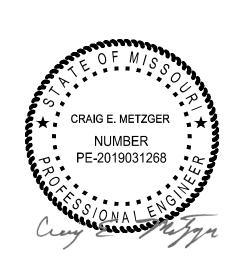
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PROFESSIONAL OF RECORD: CRAIG E. METZGER NO. 2019031268 EXP DATE: 12/31/23

	REV	DESCRIPTION	DATE
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Project No.: 40497-21

Client Project No.:

Drawing Title:

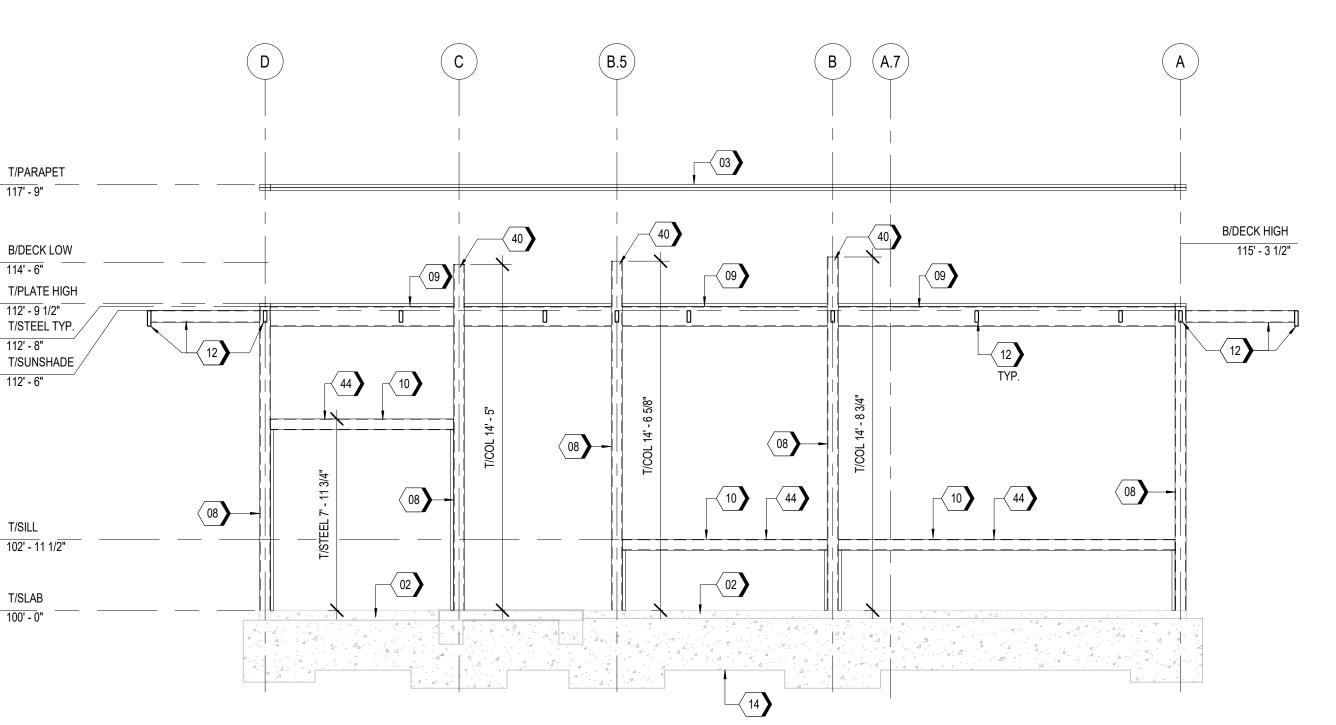
**ROOF FRAMING PLAN** 

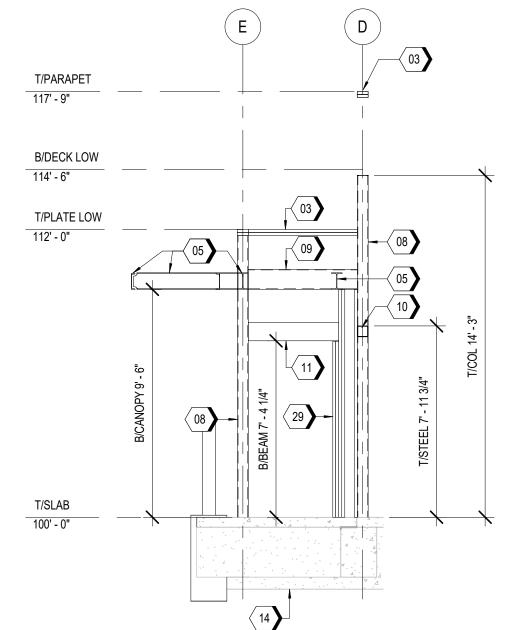
 Date:
 06.29.2022
 Phase:
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- 02 8" WIDE x 4" TALL BRICK LEDGE, TYPICAL AROUND PERIMETER. OMIT AT DOORS.
- 03 DOUBLE 2x6 TOP PLATE.
- 04 (3) 2x6 STUD PACK. RE: A5/S5.2 FOR NAILING DETAILS.
- 05 EXTERIOR CANOPY. RE: S5.9 FOR ENLARGED FRAMING PLAN. HSS 5-1/2x5-1/2x5/16 COLUMN.
- HSS 10x4x5/16 BEAM.
- 10 HSS 5-1/2x5-1/2x5/16 BEAM.
- 11 HDR1, RE: C2/S5.2.
- 12 EXTERIOR SUNSHADE. RE: S5.9 FOR ENLARGED FRAMING PLAN. 14 GRADE BEAM. REFER FOUNDATION PLAN FOR DETAILS.
- 28 TYPICAL CORNER STUD PACK. RE: A4/S5.2 FOR DETAIL.
- HEADER SUPPORT STUDS. RE: C2/S5.2 AND A1/S5.2 FOR FRAMING DETAILS. WOOD SHEAR WALL, RE: A1/S4.1. SIMPSON HOLDOWN AT EACH END OF SHEAR WALL, RE: A2/S4.1
- TOP OF STEEL COLUMN EXTENDS TO ROOF DECK. RE: D2/S5.6
- TOP OF STEEL COLUMN EXTENDS TO TOP PLATE. RE: C1/S5.6 TOP OF STEEL COLUMN EXTENDS TO TOP OF PARAPET & CONNECTS TO (2) RIPPED 2x10 TOP PLATES.
- 43 HDR2, RE: C2/S5.2 44 STEEL ANGLE FOR WINDOW CONNX AT LOW BEAM, RE: D1/S5.8
- 50 W21x50 COLUMN W/ 2x10'S ATTACHED TO FLANGE OF COLUMN W/ SIMPSON TB1475S SCREWS AT 12" OC.

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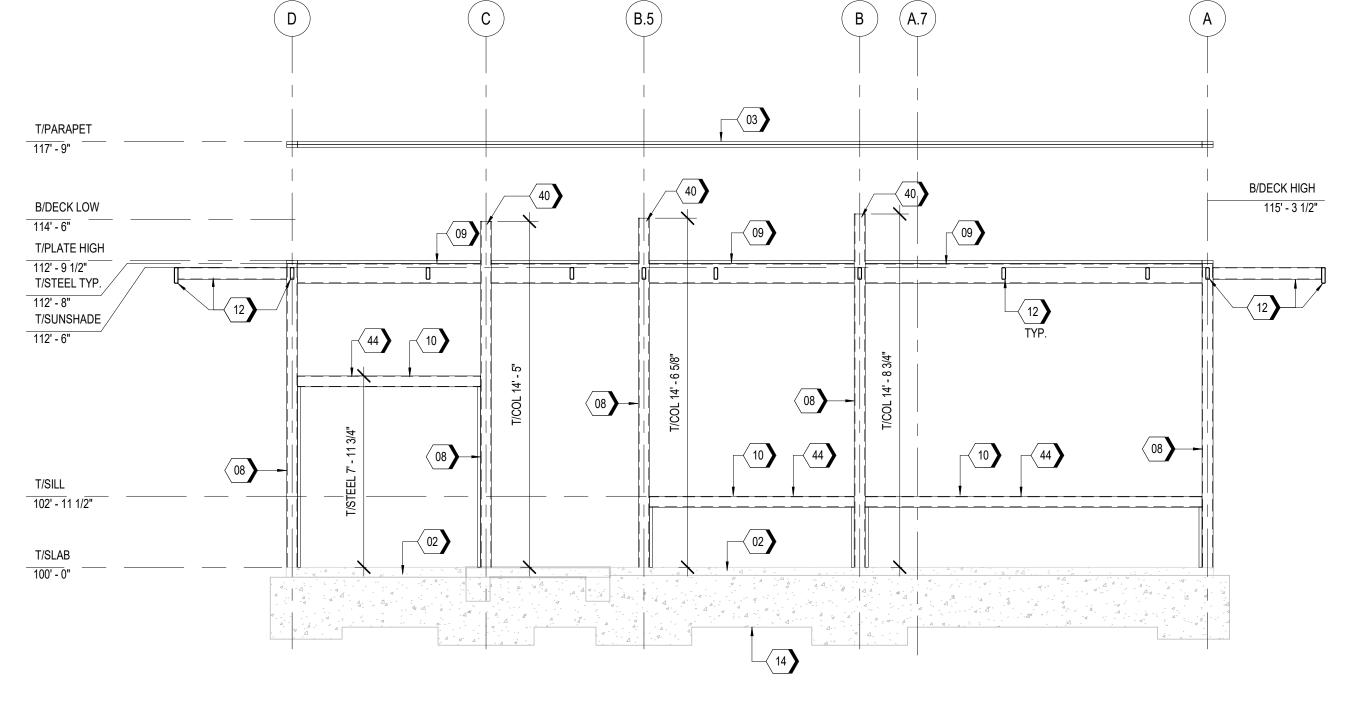
Project No.: 40497-21 Client Project No.:

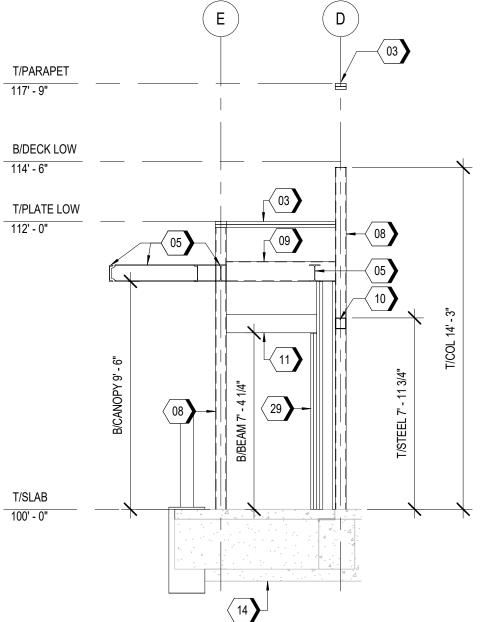
Drawing Title:

FRAMING ELEVATIONS

Date: 06.29.2022 Designed: DMS

Drawn: CLS Checked: CEM





C3 PLAN WEST FRAMING ELEVATION - EXPEDITE DOOR

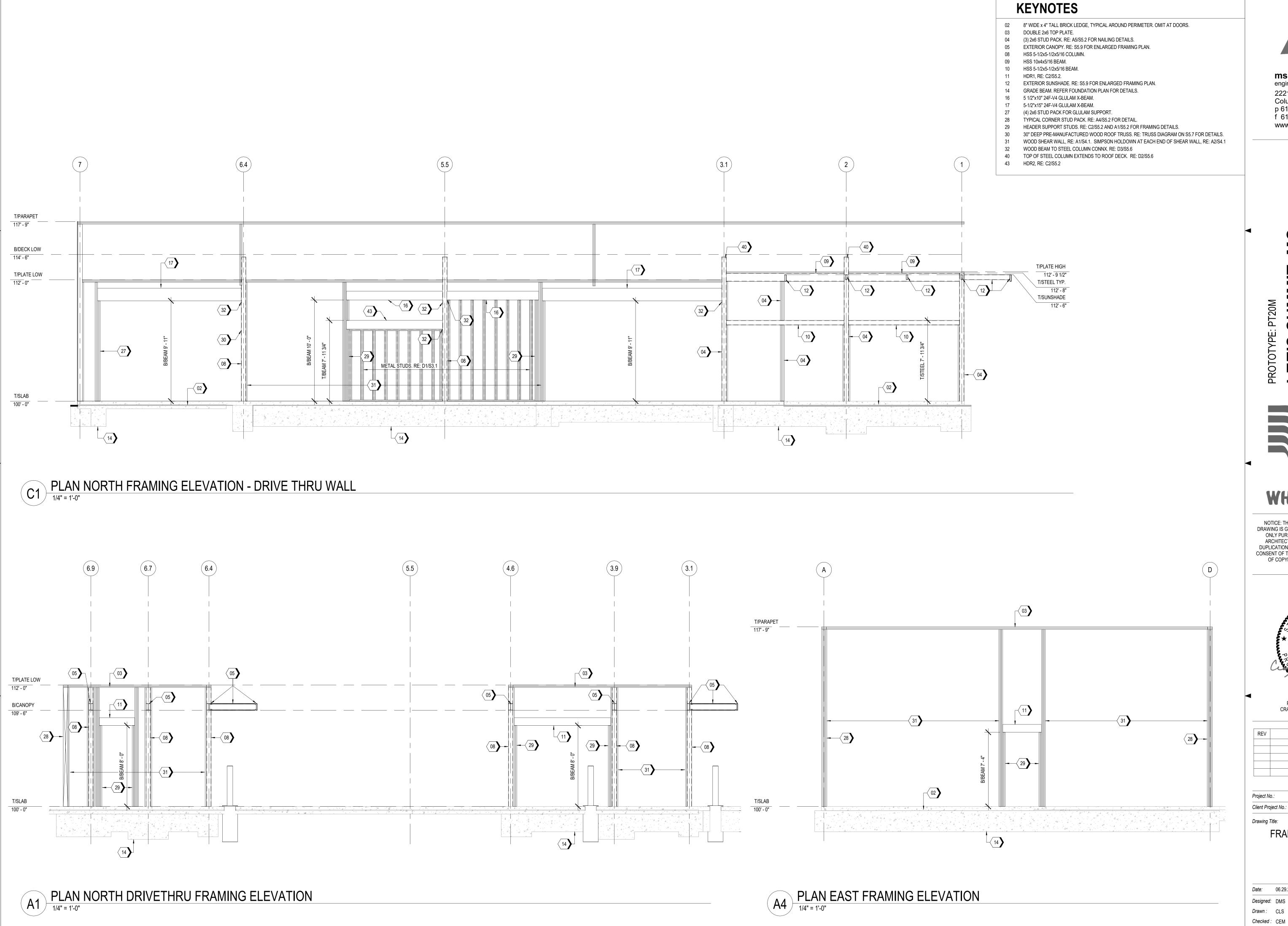
42 43 B/DECK ENTRY 118' - 9 1/4" T/PARAPET 117' - 9" T/PLATE HIGH 112' - 9 1/2" T/STEEL TYP. 112' - 8" T/SUNSHADE 112' - 6" (08) 28 (04) T/SILL 102' - 11 1/2"

PLAN SOUTH FRAMING ELEVATION

1/4" = 1'-0"

PLAN WEST FRAMING ELEVATION

1/4" = 1'-0"



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PROTOTYPE:

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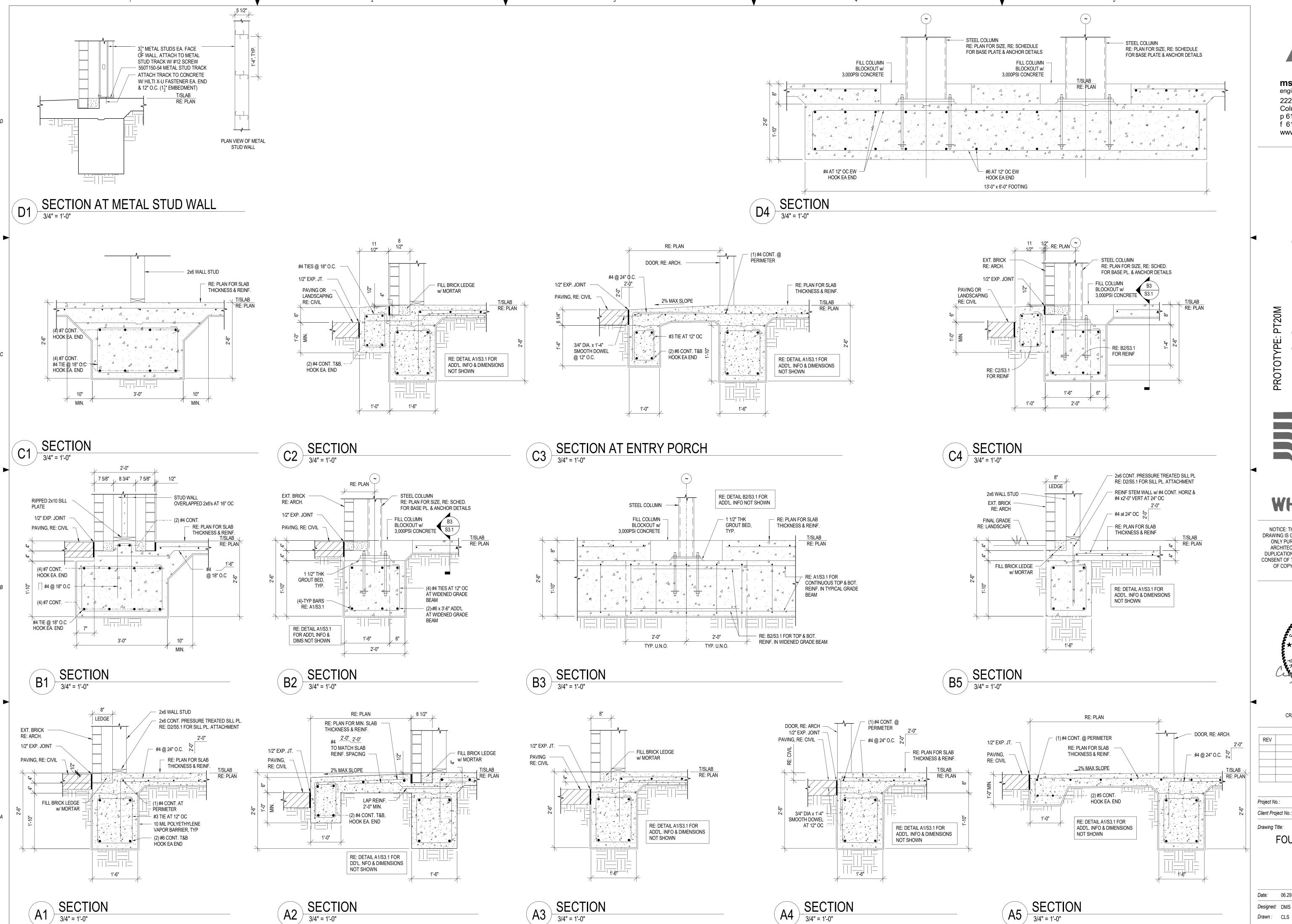
REV	DESCRIPTION	DATE

40497-21 Client Project No.:

Drawing Title:

FRAMING ELEVATIONS

Designed: DMS Drawing No.: Drawn: CLS S2.2



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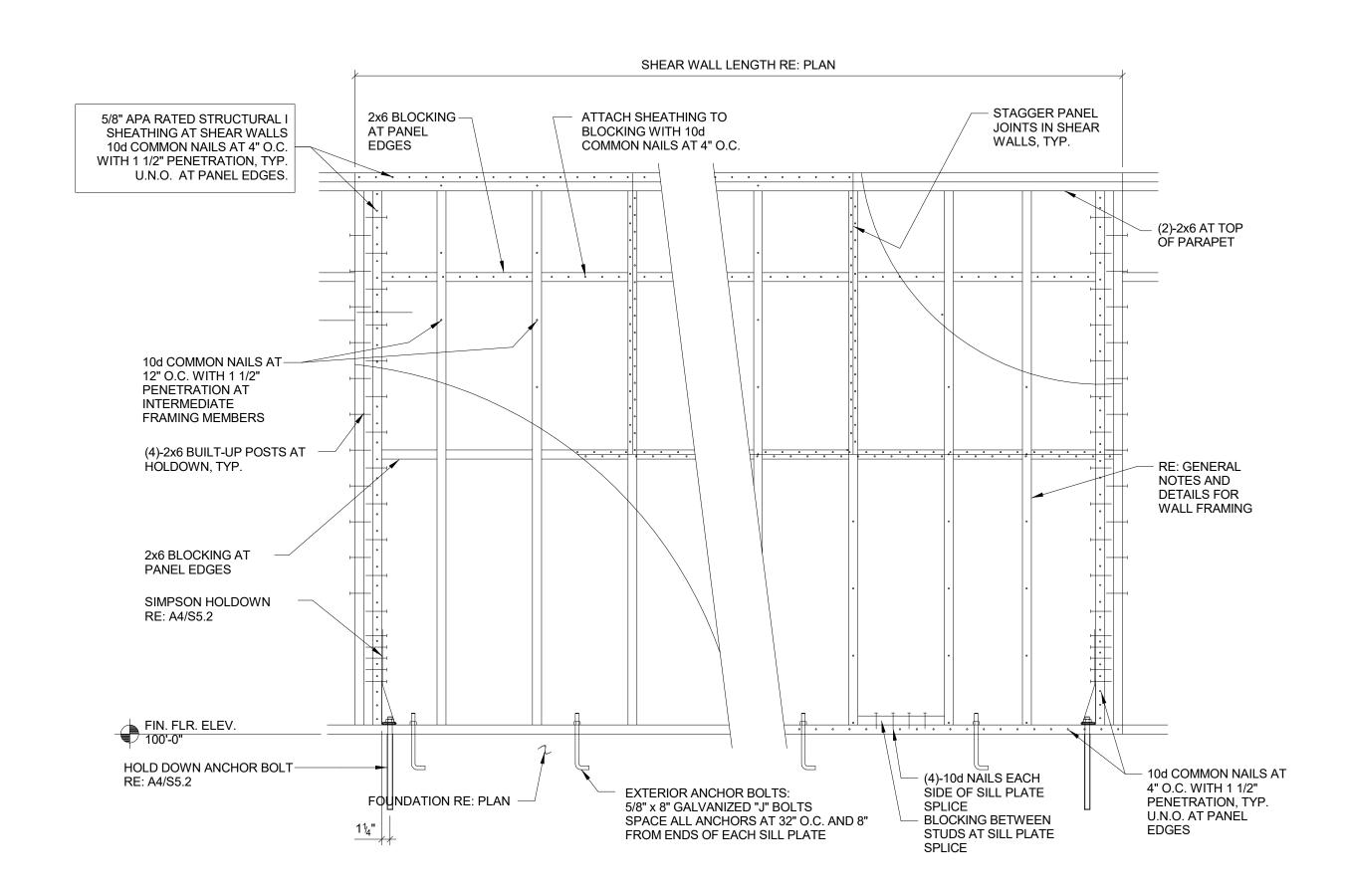
DESCRIPTION DATE

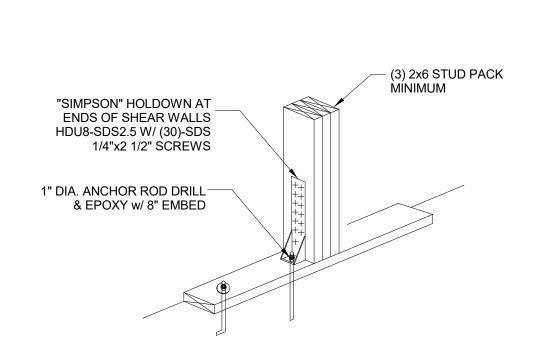
40497-21

FOUNDATION DETAILS

PERMIT SET Date: 06.29.2022 Phase: Designed: DMS Drawing No.: Drawn: CLS S3.1 Checked: CEM

FORCE TRANSFER AROUND OPENING IN SHEAR WALL B





A1 TYPICAL SHEAR WALL ELEVATION

3/4" = 1'-0"

A2 TYPICAL SHEAR WALL HOLDOWN
3/4" = 1'-0"



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	REV	DESCRIPTION	DATE

Project No.: 40497-21

Client Project No.:

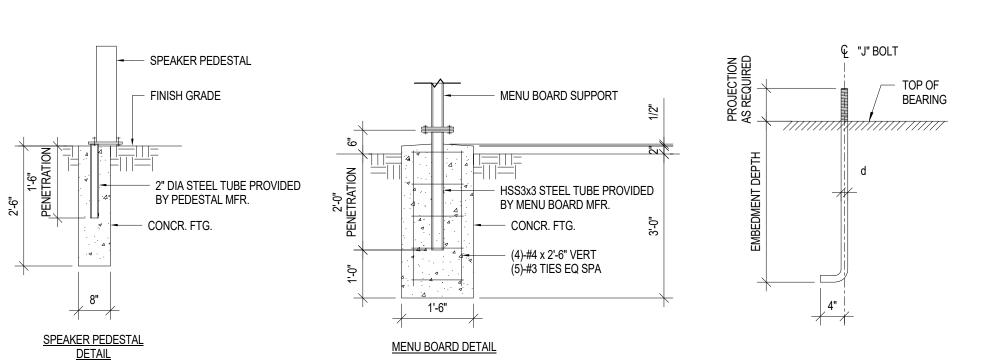
Drawing Title:

SW FRAMING DETAILS

Date: 06.29.2022 PERMIT SET Phase: Drawing No.: Designed: DMS Drawn: CLS

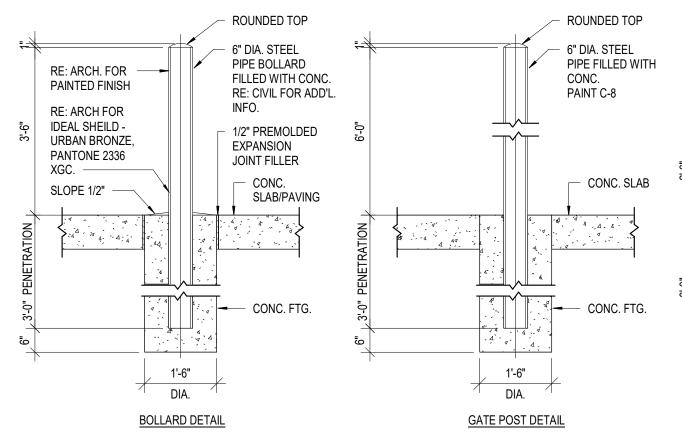
Checked: CEM

S4.1

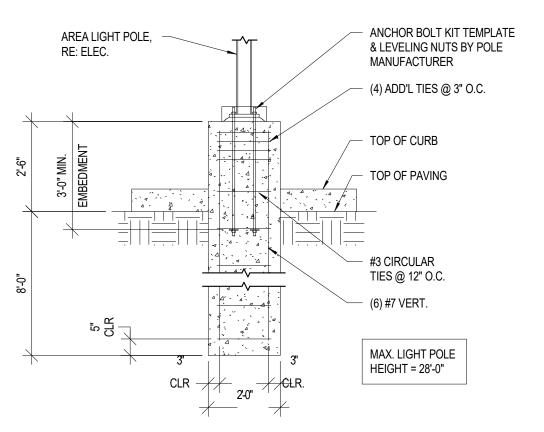


MENU BOARD & SPEAKER PEDESTAL FOUNDATION DETAILS

ANCHOR BOLT DETAIL

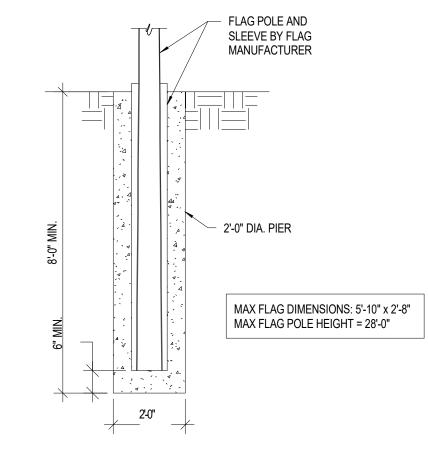


**BOLLARD/GATE POST DETAIL** 

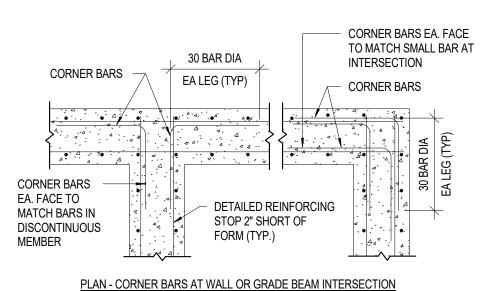


TYP. LIGHT POLE DETAIL

NTS

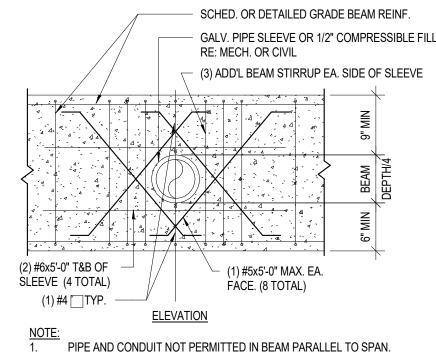


TYP. FLAG POLE DETAIL

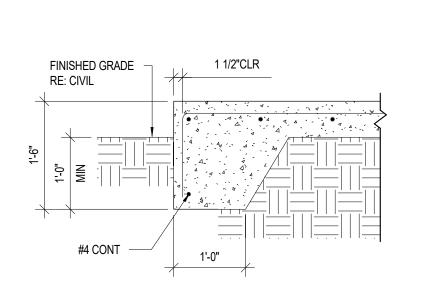


PROVIDE CORNER BARS TO MATCH SIZE AND LOCATION OF ALL HORIZONTAL GRADE BEAM AND WALL BARS EXCEPT HOOKED TOP AND BOTTOM BARS.

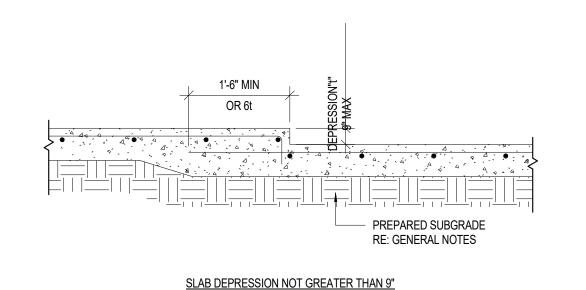
TYPICAL CORNER BAR DETAIL



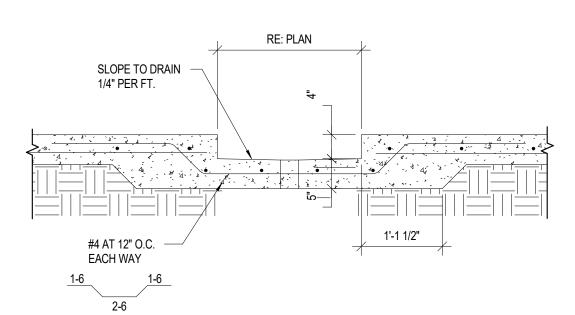
TYPICAL SLEEVE IN GRADE BEAM



TYP. CONCRETE TURNDOWN  $(C3)\frac{11}{NTS}$ 



TYP. SLAB-ON-GRADE **DEPRESSION DETAIL** 



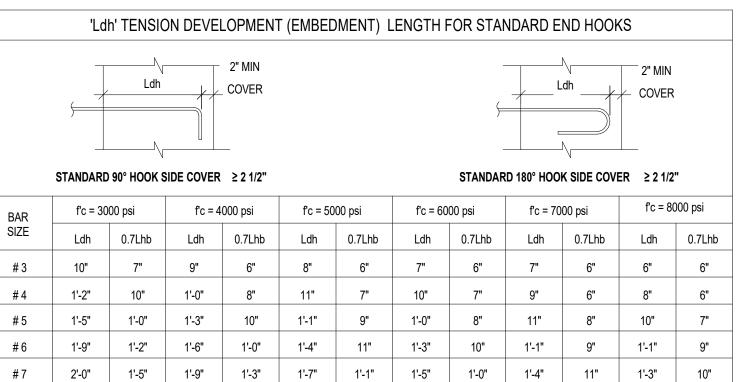
SINK DETAIL

#### 'Ld' TENSION DEVELOPMENT LENGTH FOR BEAM, SLAB, AND WALL REBARS (GRADE 60 **UNCOATED BARS - NORMAL WEIGHT CONCRETE)** f'c=4000 psi f'c=5000 psi f'c=8000 psi **BAR SIZE** LdTOP Ld BOT #3 1'-9" 1'-4" 1'-2" 1'-5" 1'-1" 1'-3" 1'-0" 1'-1" 1'-0" 1'-6" 1'-5" 1'-1" 2'-4" 1'-10" 2'-1" 1'-7" 1'-10" 1'-5" 1'-8" 1'-3" 3'-0" 2'-3" 2'-7" 2'-0" 2'-1" 1'-7" 2'-4" 1'-9" 1'-10" 1'-5" # 5 3'-7" 2'-9" 2'-1" 1'-11" 2'-2" 1'-8" 3'-1" 2'-4" 2'-9" 2'-6" #6 #7 5'-2" 4'-0" 4'-6" 3'-6" 3'-8" 2'-10" 3'-2" 2'-5" #8 4'-7" 5'-2" 3'-6" 4'-2" 3'-3" 3'-8" 4'-1" 3'-2" #9 6'-8" 5'-2" 5'-9" 4'-5" 5'-2" 4'-0" 4'-9" 3'-8" 4'-7" 3'-7" # 10 7'-6" 5'-10" 6'-6" 5'-0" 5'-10" 5'-4" # 11 8'-4" 6'-5" 7'-3" 5'-7" 6'-6" 5'-0" 4'-7" 5'-1" 3'-11"

'TOP' BARS ARE HORIZONTAL REBARS WITH MORE THAN 12 IN OF FRESH CONCRETE CAST BELOW THE BARS AT THE DEVELOPMENT LENGTH. 'Ld' FOR #3 AND #4 BARS IN SLAB OR WALL ARE CONSERVATIVE AND MAY BE REDUCED TO 0.75 TIMES. FOR LIGHT-WEIGHT CONCRETE MULTIPLY THE TABULATED VALUES BY 1.3.

				AINO NOINI	IAL WEIGH	II CONCI	<u> </u>			
BAR	f'c=30	00 psi	f'c=40	00 psi	f'c=50	000 psi	f'c=6	000 psi	f'c=80	000 psi
SIZE	TOP	ВОТ	TOP	ВОТ	TOP	ВОТ	TOP	ВОТ	TOP	В
#3	2'-4"	1'-9"	2'-0"	1'-6"	1'-10"	1'-5"	1'-8"	1'-4"	1'-5"	1'
#4	3'-1"	2'-4"	2'-8"	2'-1"	2'-5"	1'-10"	2'-2"	1'-8"	1'-11"	1'
# 5	3'-10"	3'-0"	3'-4"	2'-7"	3'-0"	2'-4"	2'-9"	2'-1"	2'-4"	1'-
#6	4'-8"	3'-7"	4'-0"	3'-1"	3'-7"	2'-9"	3'-3"	2'-6"	2'-10"	2'
#7	6'-9"	5'-2"	5'-10"	4'-6"	5'-3"	4'-0"	4'-9"	3'-8"	4'-2"	3'
#8	7'-9"	5'-11"	6'-8"	5'-2"	6'-0"	4'-7"	5'-5"	4'-2"	4'-9"	3'
#9	8'-8"	6'-8"	7'-6"	5'-9"	6'-9"	5'-2"	6'-2"	4'-9"	5'-4"	4'
# 10	9'-10"	7'-6"	8'-6"	6'-6"	7'-7"	5'-10"	6'-11"	5'-4"	6'-0"	4'
# 11	10'-11"	8'-4"	9'-5"	7'-3"	8'-5"	6'-6"	7'-8"	5'-11"	6'-8"	5'

FOR CLASS 'A' SPLICE (PERMITTED ONLY WHEN NOT MORE THAN HALF THE BARS SPLICED AND SPLICES STAGGERED BY THE DISTANCE OF SPLICE LENGTH), USE SAME AS 'Id' = TENSION DEVELOPMENT LENGTH TABLE.



SIZE #3 1'-9" 1'-3" | 1'-7" | 1'-2" | 1'-6" | 1'-1" | 1'-5" | 1'-0" 1'-5" 1'-10" 1'-3" 1'-8" 1'-2" 1'-7" 1'-7" | 2'-1" | 1'-5" | 1'-11" | 1'-4" | 1'-9" | 1'-3" # 10 | 2'-11" | 2'-0" | 2'-6" | 1'-9" | 2'-3" 3'-3" | 2'-3" | 2'-9" | 1'-11" | 2'-6" | 1'-9" | 2'-3" | 1'-7" | 2'-1" | 1'-6" | 2'-0" | 1'-5"

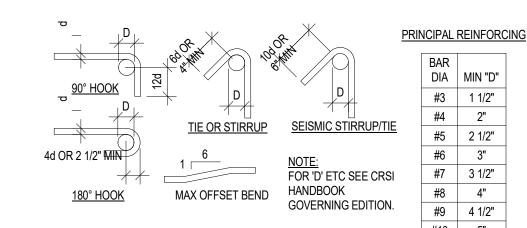
Ldh = DEVELOPMENT LENGTH OF STANDARD HOOKS IN TENSION. Ldh = Lhb UNLESS CONDITIONS OF ITEMS 3 ARE SATISFIED.

Ldh SHALL BE MULTIPLIED BY 1.2 FOR EPOXY-COATED HOOKED BARS.

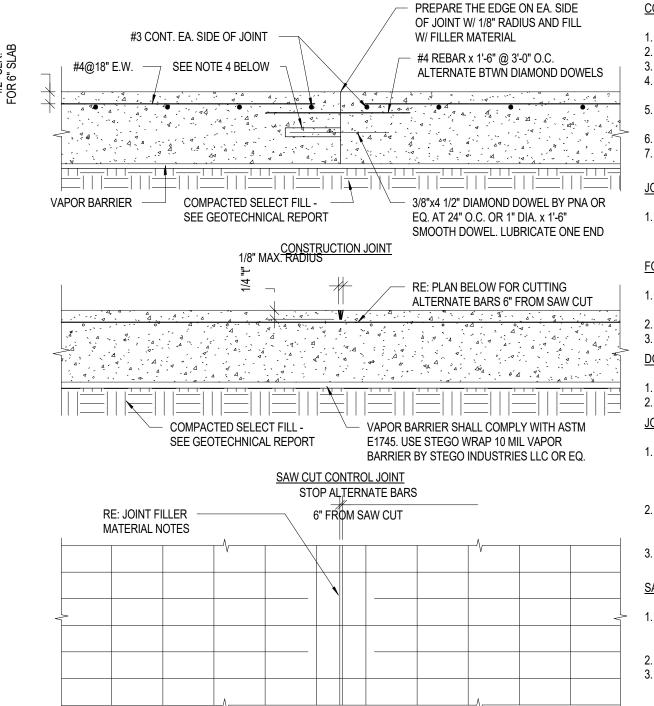
Ldh = 0.7 Lhb FOR #11 BARS AND SMALLER WHEN SIDE COVER (NORMAL TO PLAN OF HOOK) IS NOT LESS THAN 2 1/2" AND FOR 90° HOOKS, COVER ON BAR EXTENSION BEYOND HOOK IS NOT LESS THAN 2 INCHES. HOOKS ARE NOT CONSIDERED EFFECTIVE FOR DEVELOPING BARS IN COMPRESSION.

#9 4 1/2"

#11 5 1/2"



BENDS SHALL BE MADE COLD. #14 AND #18 BARS SHALL BE BEND-TESTED AND APPROVED PRIOR TO BENDING. #7 3 1/2"



**CONSTRUCTION JOINT NOTES:** 

REFER TO PLAN FOR SLAB THICKNESS (t) AND REINFORCEMENT.

SLAB REINFORCEMENT SHALL BE CHAIRED BY SOIL SUPPORT SLAB BOLSTERS. DO NOT USE THE KEY JOINT FOR SCREEDING. BREAK BOND BETWEEN NEW AND PREVIOUSLY PLACED SLAB BY SPRAYING OR PAINTING THE EXPOSED SIDE OF THE KEY AND DOWEL WITH CURING COMPOUND, ASPHALTIC EMULSION OR FORM OIL.

REFER TO GENERAL NOTES, GENERAL SPECIFICATIONS, AND DRAWINGS FOR SUB-FLOOR DRAINAGE SYSTEM, SUBGRADE PREPARATION AND/OR MUD SLAB AND VAPOR BARRIER REQUIREMENTS. SUBGRADE SHALL BE FREE OF STANDING WATER AT THE TIME OF CONCRETE PLACEMENT.

LONG STRIP CONSTRUCTION METHOD SHALL BE USED IN PLACING CONCRETE FOR ALL SLABS ON GRADE. REFER TO SCHEMATIC PLAN FOR CONCRETE PLACING SEQUENCE.

#### JOINT SPACING NOTES:

PROVIDE CONTROL AND/OR CONSTRUCTION JOINTS AT EVERY COLUMN LINE AND IN BETWEEN THE COLUMN LINES SUCH THAT THE JOINT SPACING DOES NOT EXCEED 30 TIMES THE SLAB THICKNESS IN INCHES, UNLESS OTHERWISE NOTED, SUBMIT JOINT PLAN FOR ENGINEER'S APPROVAL. FORMED CONTROL JOINT NOTES:

FORM CONTROL JOINTS BY INSERTING PRE-MOLDED STRIP INTO FRESH CONCRETE UNTIL TOP SURFACE OF STRIP IS FLUSH WITH SLAB SURFACE.

#### TOOL SLAB EDGES ROUND ON EACH SIDE OF INSERT. AFTER CONCRETE HAS CURED, REMOVE INSERTS AND CLEAN GROOVE OF LOOSE DEBRIS.

ALL DOWELS SHALL CONFORM TO ASTM A615. DOWELS SHALL BE CAREFULLY ALIGNED AND SUPPORTED DURING CONCRETING OPERATIONS.

FILLER MATERIAL SHALL HAVE A MINIMUM SHORE HARDNESS OF 35, AND SHALL CONFORM TO ASTM D2240. JOINT FILLER SHALL BE APPROVED BY A/E PRIOR TO APPLICATION. APPROVED JOINT FILLER IS VULKEM 245 AS MANUFACTURED BY MAMECO INTERNATIONAL OR EUCO QWIK JOINT 200 BY THE EUCLID CHEMICAL COMPANY OR EQUAL.

TEMPERATURE CONTROL. THIS SHALL BE EITHER AT THE END OF CONSTRUCTION OF THE COMPLETE BUILDING SHELL, OR A MINIMUM OF 90 DAYS AFTER SLAB CONSTRUCTION. FOLLOW STRICTLY THE MANUFACTURER'S RECOMMENDED PROCEDURES FOR APPLYING THE JOINT

WHERE POSSIBLE, FILLER MATERIAL SHALL BE APPLIED WHEN BUILDING IS UNDER PERMANENT

#### SAW CUT CONTROL JOINT NOTES:

MAKE HAND-TOOLED JOINTS AS SOON AS SLAB IS ABLE TO SUPPORT THE WEIGHT OF WORKERS AND SAWING EQUIPMENT WITHOUT DAMAGE TO FINISH SURFACE OF SLAB. SAW CUT JOINTS ARE TO BE MADE ABSOLUTELY PRIOR TO THE NEXT MORNING AFTER PLACEMENT.

CLEAN JOINT PRIOR TO FILLING JOINT. LOCATE CONTROL JOINTS AT COLUMN LINES. MAXIMUM SPACING BETWEEN CONTROL JOINTS = 30 x SLAB THICKNESS IN INCHES. LOCATE CONTROL JOINTS BETWEEN COLUMNS AS REQ'D.

Client Project No.: Drawing Title: TYPICAL DETAILS

40497-21

Project No.:

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CRAIG E. METZGER NO. 2019031268

EXP DATE: 12/31/23

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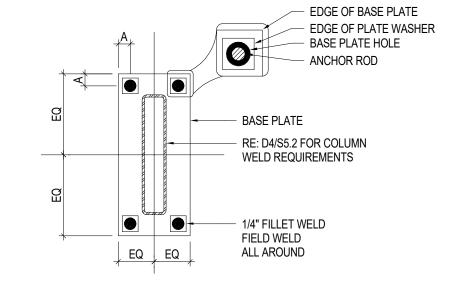
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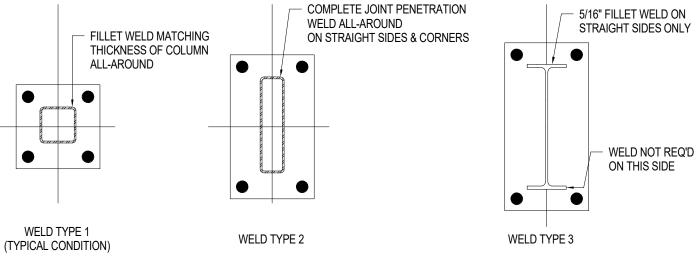
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TYPICAL CONSTRUCTION / CONTROL JOINT SLAB-ON-GRADE

TENSION SCHEDULE & BAR BENDS

COLUMN SIZE	COLUMN DESCRIPTION	BASE PLATE t x L x W	ANCHOR RODS	ANCHOR ROD EMBEDMENT DEPTH	DIMENSION "A" C/L OF BOLT TO EDGE OF PLATE	COLUMN TO BASE PLATE WELD TYPE
WF21x50	CANT. COLUMN IN BLDG	1-1/2" x 14" x 2'-4"	(4) 1-1/4" DIA.	20"	2"	TYPE 3
HSS16x4	CANT. COLUMN IN BLDG	1-1/4" x 12" x 1'-11"	(4) 1" DIA.	16"	2"	TYPE 2
HSS8x4	MENU BOARD CANOPY	1" x 12" x 1'-3"	(4) 1" DIA.	20"	1 1/2"	TYPE 1
HSS6x6	DUMPSTER ENCLOSURE	1" x 12" x 1'-0"	(4) 1" DIA.	16"	1 1/2"	TYPE 1
HSS6x4	HEADACHE BAR	1" x 12" x 1'-0"	(4) 1" DIA.	20"	1 1/2"	TYPE 1
HSS5-1/2x5-1/2	COLUMN IN BLDG	1" x 12" x 1'-0"	(4) 1" DIA.	12"	1 1/2"	TYPE 1
REFER TO TYPICAL ANCHOR ROD DETAIL FOR ADD'L INFO.						







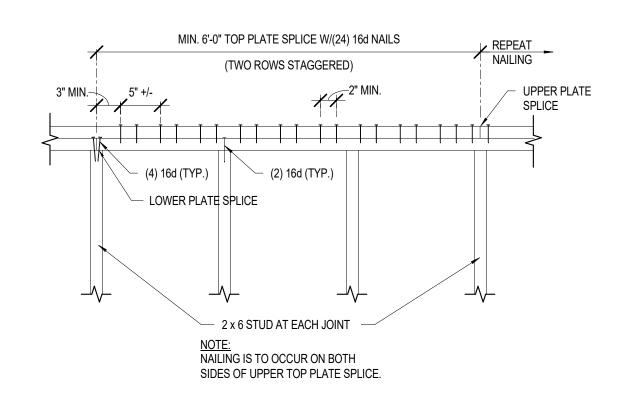
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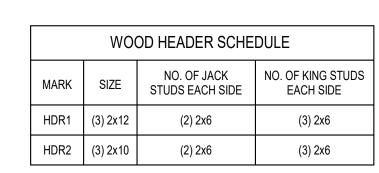


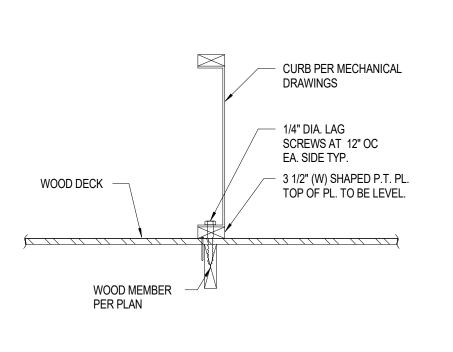
2. COLUMN SHALL BE CENTERED ON BASE PLATE

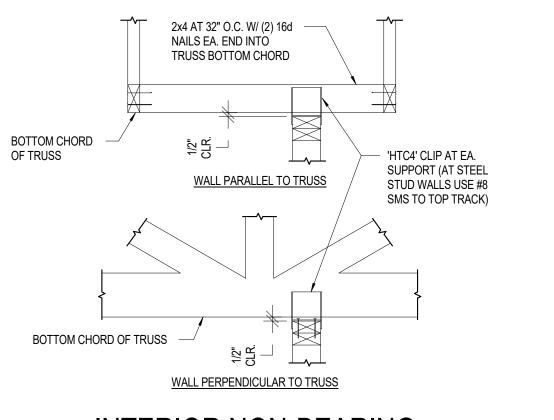
## BASE PLATE DETAIL

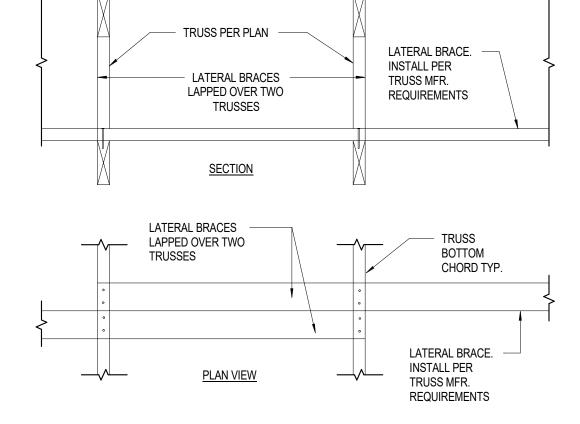
COL. TO BASE PLATE WELD DETAILS 3/4" = 1'-0"



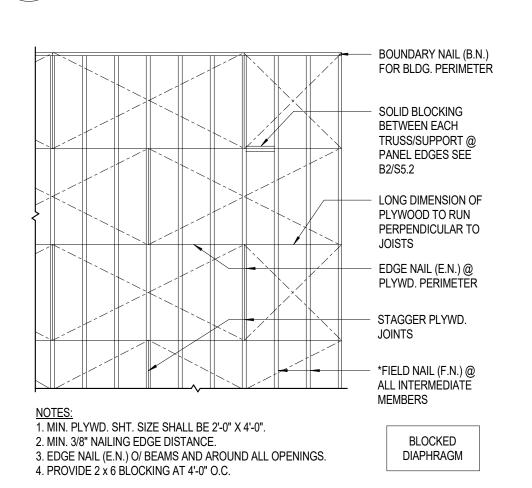














10d EDGE NAIL,

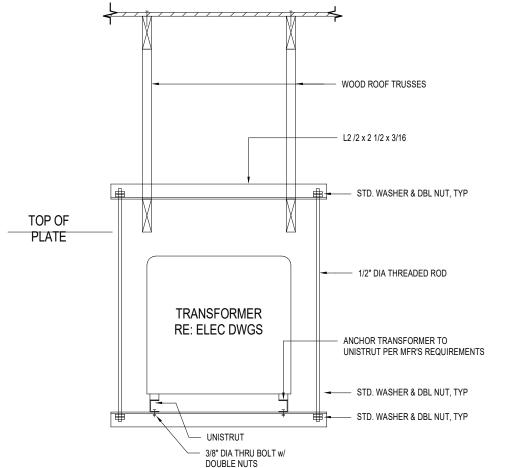
2x BLOCKING

PLYWOOD EDGE BLOCKING

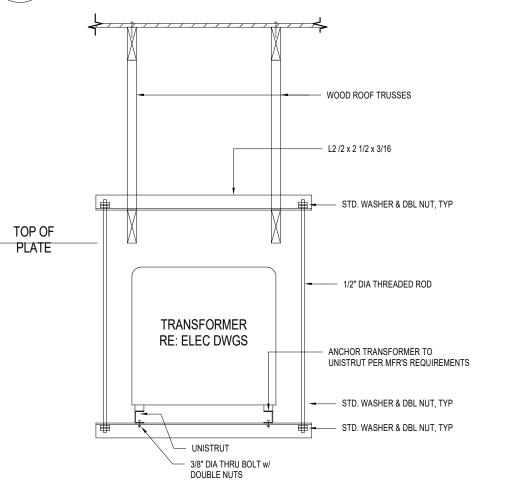
STAGGER, U.O.N.

PLYWOOD ROOF

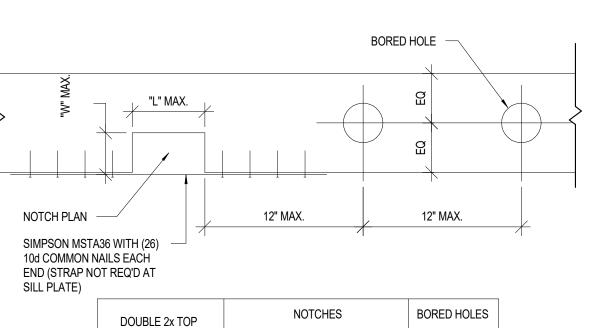
DECK SHEATHING



MECHANICAL CURB ATTACHMENT



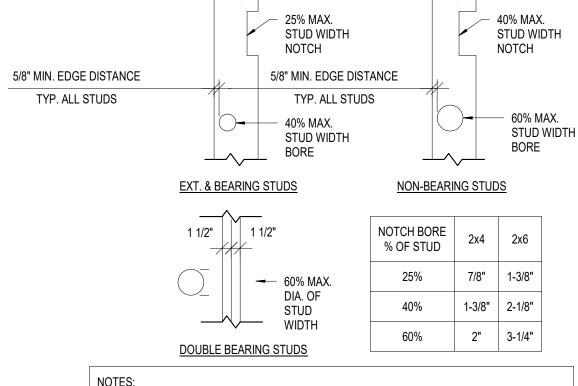
INTERIOR NON-BEARING WALL SUPPORT



6'-0"

	-		`	BORE
12" MAX.		12" MAX.	EXT. & BEARING STUDS	
		'		1 1/2"
NOTCHES		BORED HOLES	O DIA. OF	
MIN. SPACING	"L" MAX.	"W" MAX.	MAX. DIA.	STUD WIDTH
6'-0"	3-1/2"	1-1/2"	1-1/4"	DOUBLE BEARING STUDS
6'-0"	5-1/2"	2"	2"	NOTES:  1. NOTCH & BORING NOT TO OCCUR IN SAME

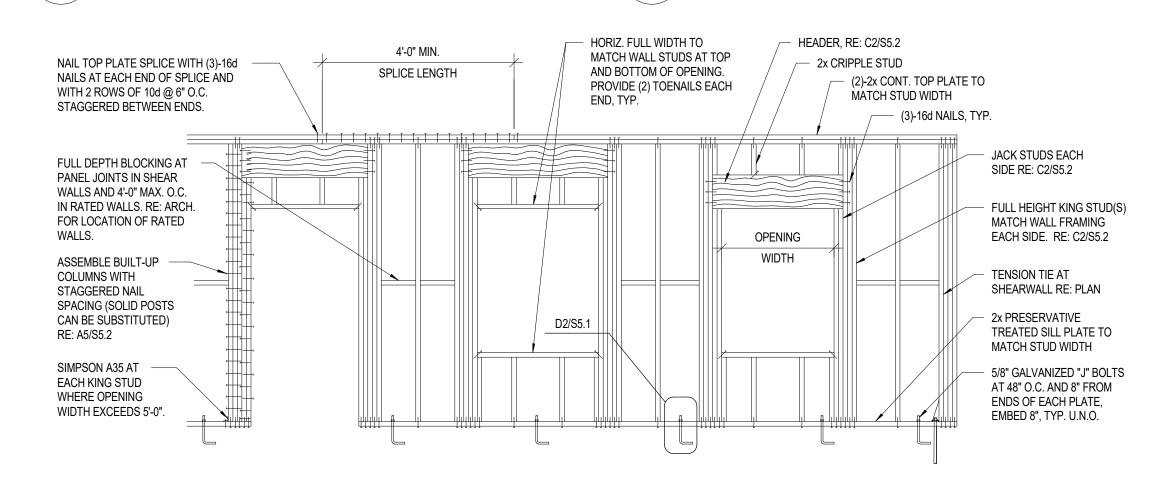
BOTTOM CHORD TRUSS BRACING



	NOTES	S:
	1.	NOTCH & BORING NOT TO OCCUR IN SAME STUD SECTION.
	2.	NO MORE THAN 2 SUCCESSIVE DOUBLE STUDS MAY HAVE 60% MAX. BORED HOLES.
l		

#### ROOF NAILING PLAN **B**1

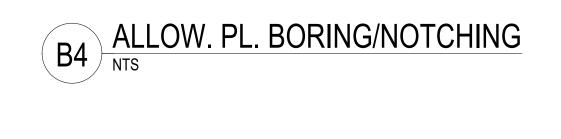
TYPICAL WALL FRAMING





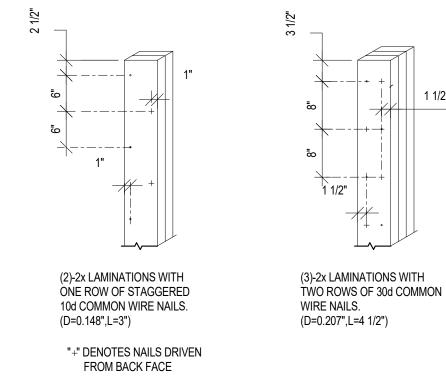
TYP. INT. STUD WALL DETAIL

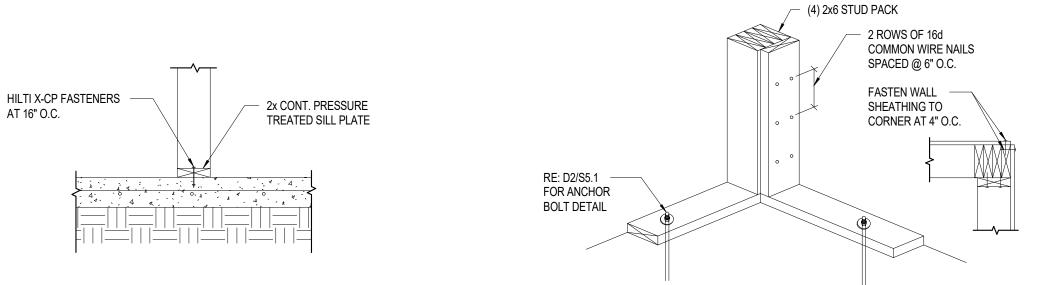
AT 16" O.C.



5-1/2"







PLATES, 2x OR

3x SILL PLATES

2x4

TYP. CORNER STUD DETAIL







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SUMMIT, **LEE'S** PROTOTYPE

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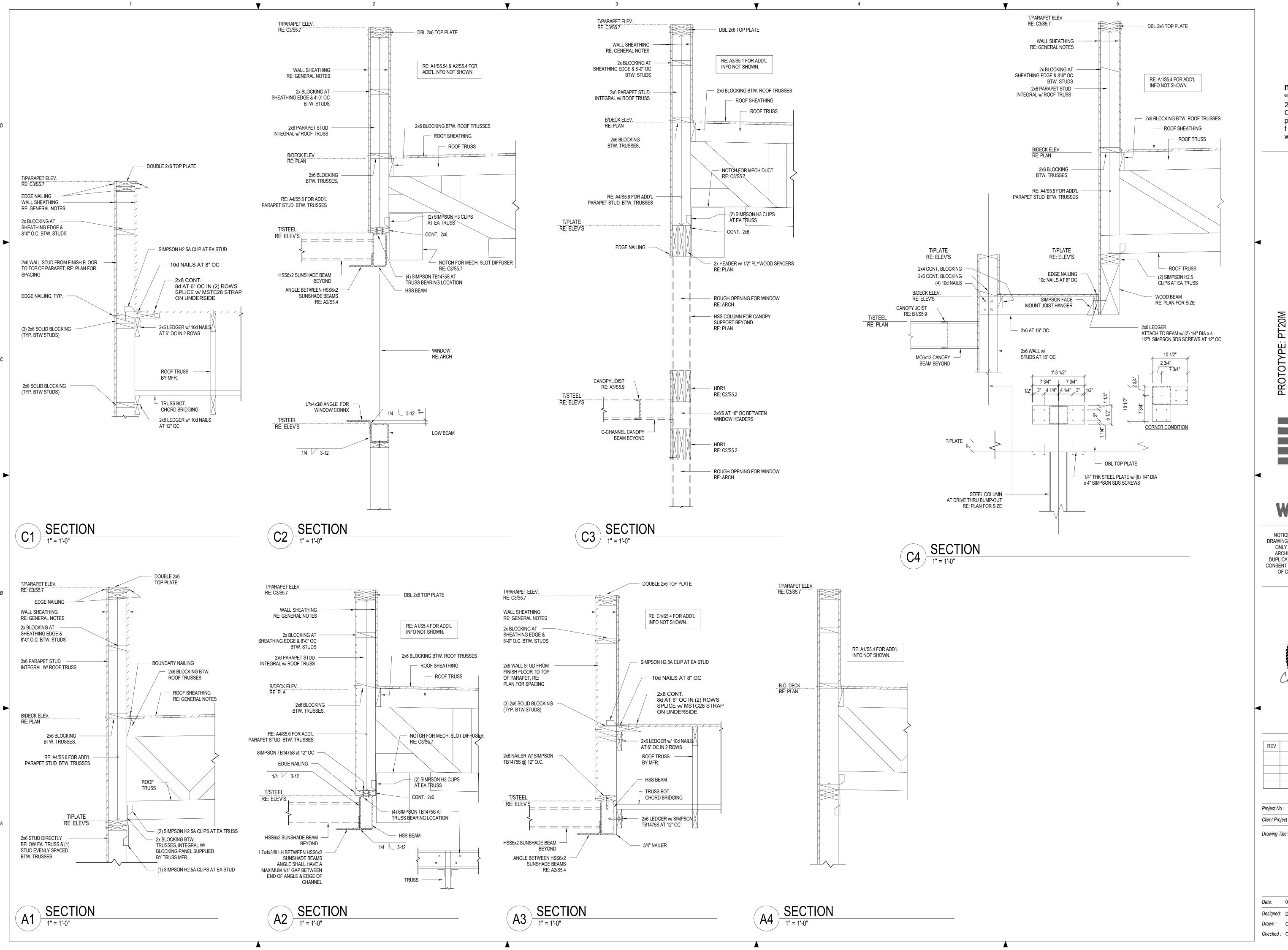
PROFESSIONAL OF RECORD: CRAIG E. METZGER NO. 2019031268 EXP DATE: 12/31/23

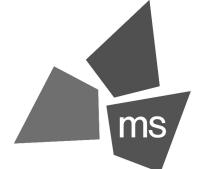
REV	DESCRIPTION	DATE

40497-21 Project No.: Client Project No.:

Drawing Title: TYPICAL DETAILS

PERMIT SET 06.29.2022 Date: Phase: Designed: DMS Drawing No.: Drawn: CLS S5.2 Checked: CEM





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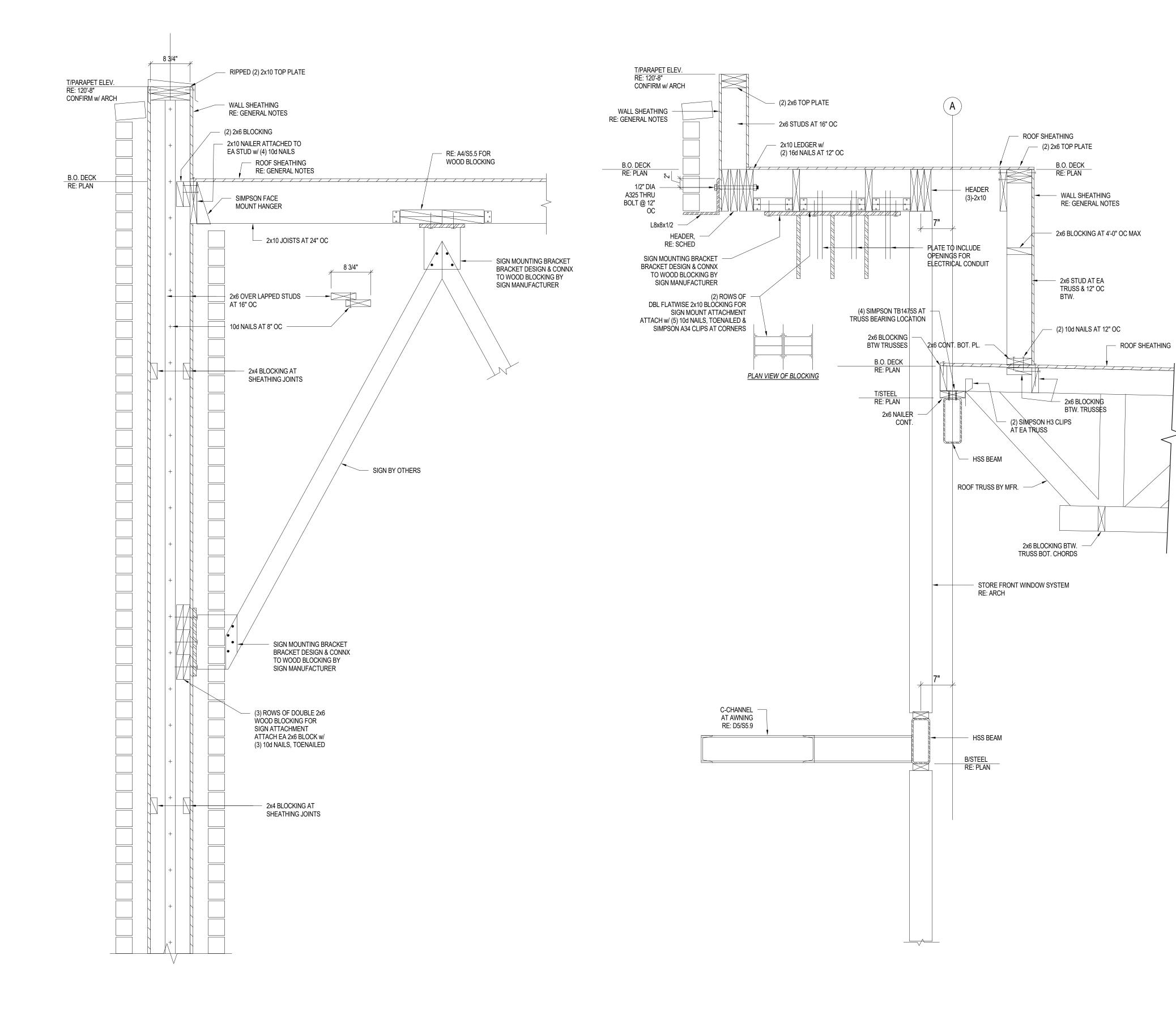
PROFESSIONAL OF RECORD: CRAIG E. METZGER NO. 2019031268 EXP DATE: 12/31/23

	REV	DESCRIPTION	DATE

40497-21 Client Project No.:

FRAMING DETAILS

Date:	06.29.2022	Phase:	PERMIT SET
Designed:	DMS	Drawing N	0.:
Drawn :	CLS	O.F.	1
Checked:	CEM	S5.	4



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PROTOTYPE Ш Щ

ROOF SHEATHING

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PROFESSIONAL OF RECORD: CRAIG E. METZGER NO. 2019031268 EXP DATE: 12/31/23

REV	DESCRIPTION	DATE

Project No.: 40497-21 Client Project No.:

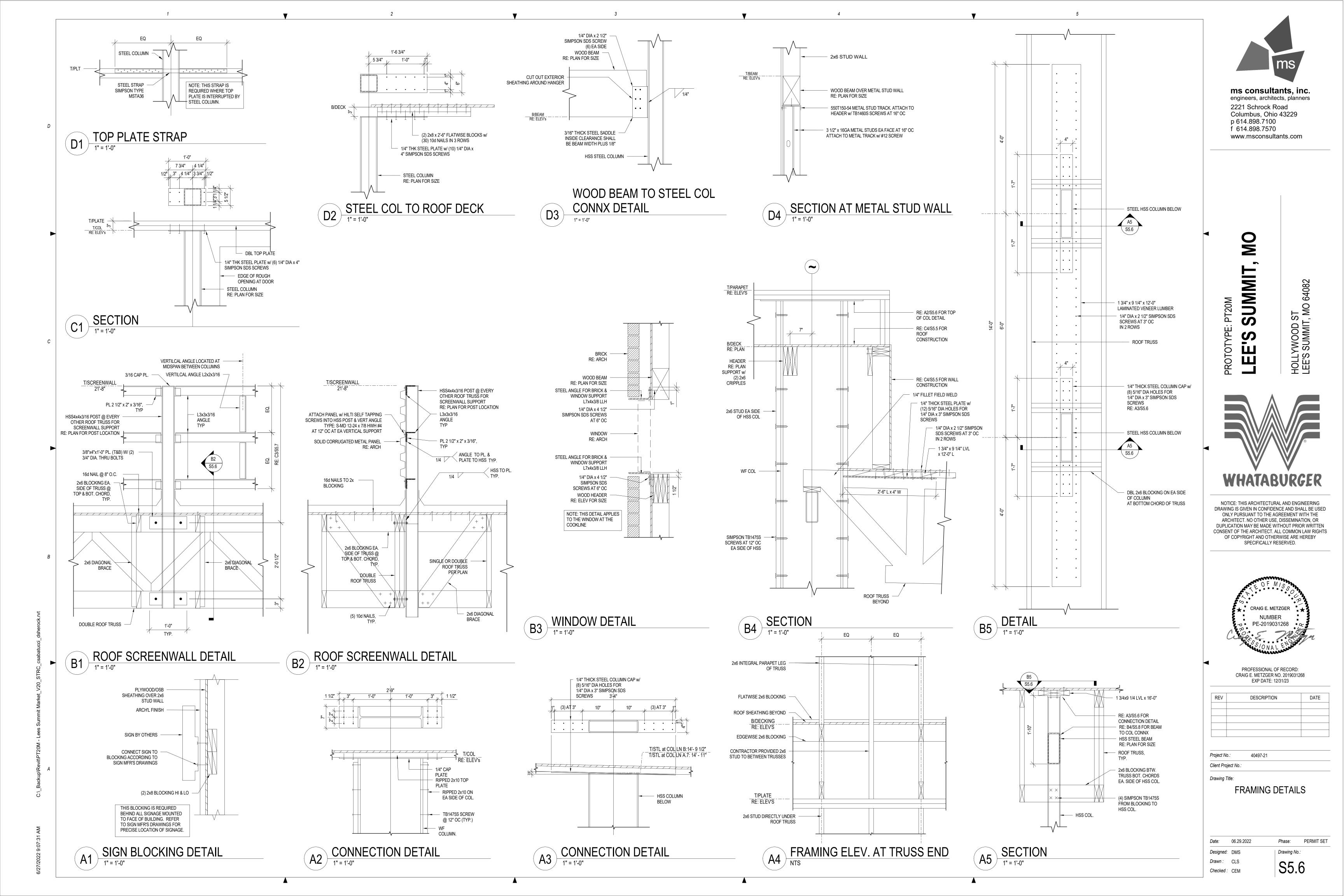
Drawing Title:

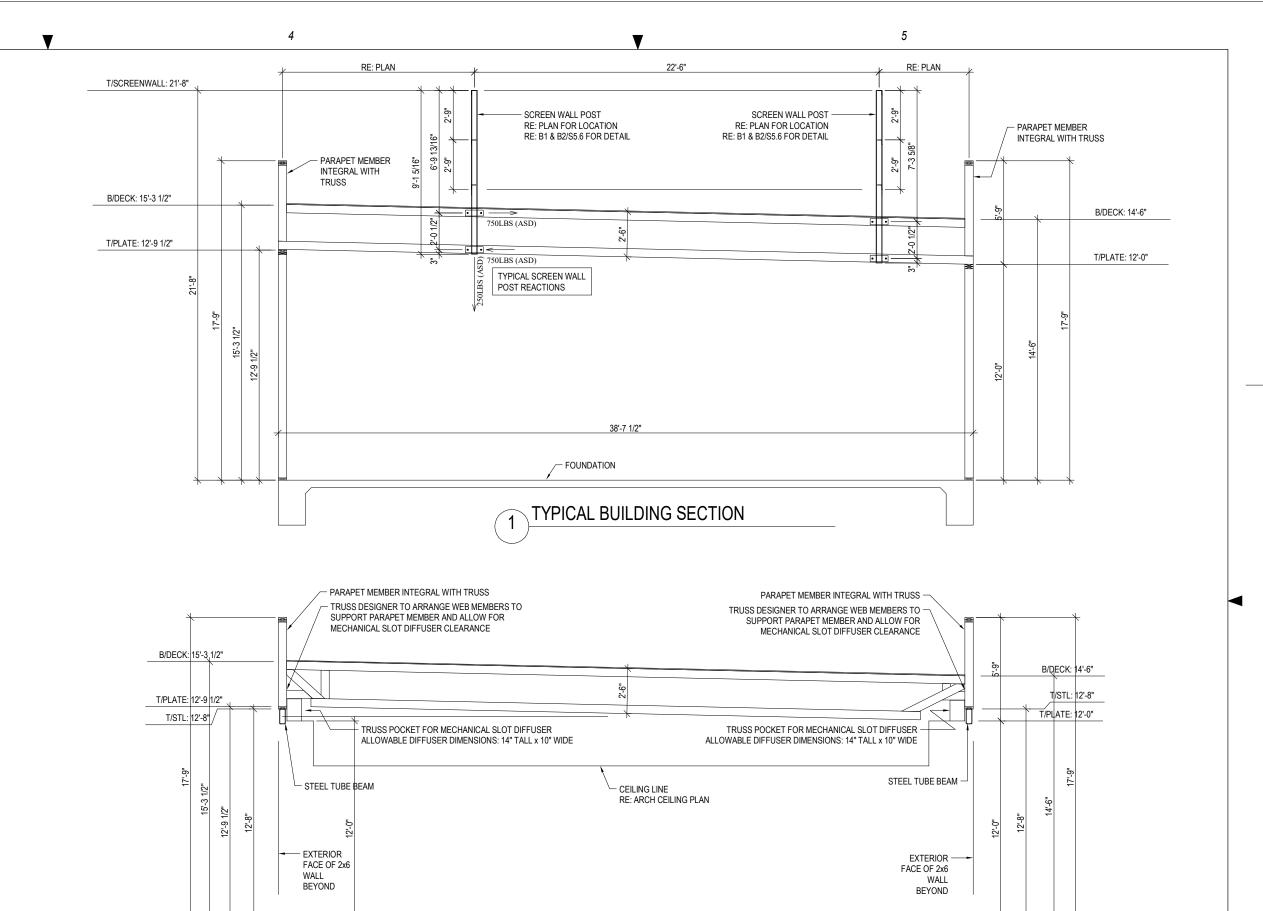
FRAMING DETAILS

PERMIT SET Date: 06.29.2022 Phase: Designed: DMS Drawing No.: Drawn: CLS S5.5 Checked: CEM

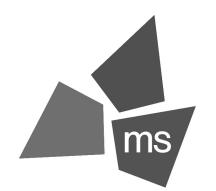
SECTION AT ENTRY PORTAL SIDE WALL

SECTION AT ENTRY PORTAL





TYPICAL BUILDING SECTION AT DINING PRE-MANUFACTURED ROOF TRUSS DIAGRAM



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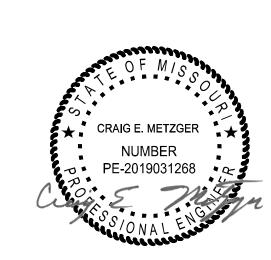
PROTOTYPE

LEE'S

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PROFESSIONAL OF RECORD: CRAIG E. METZGER NO. 2019031268 EXP DATE: 12/31/23

REV	DESCRIPTION	DATE

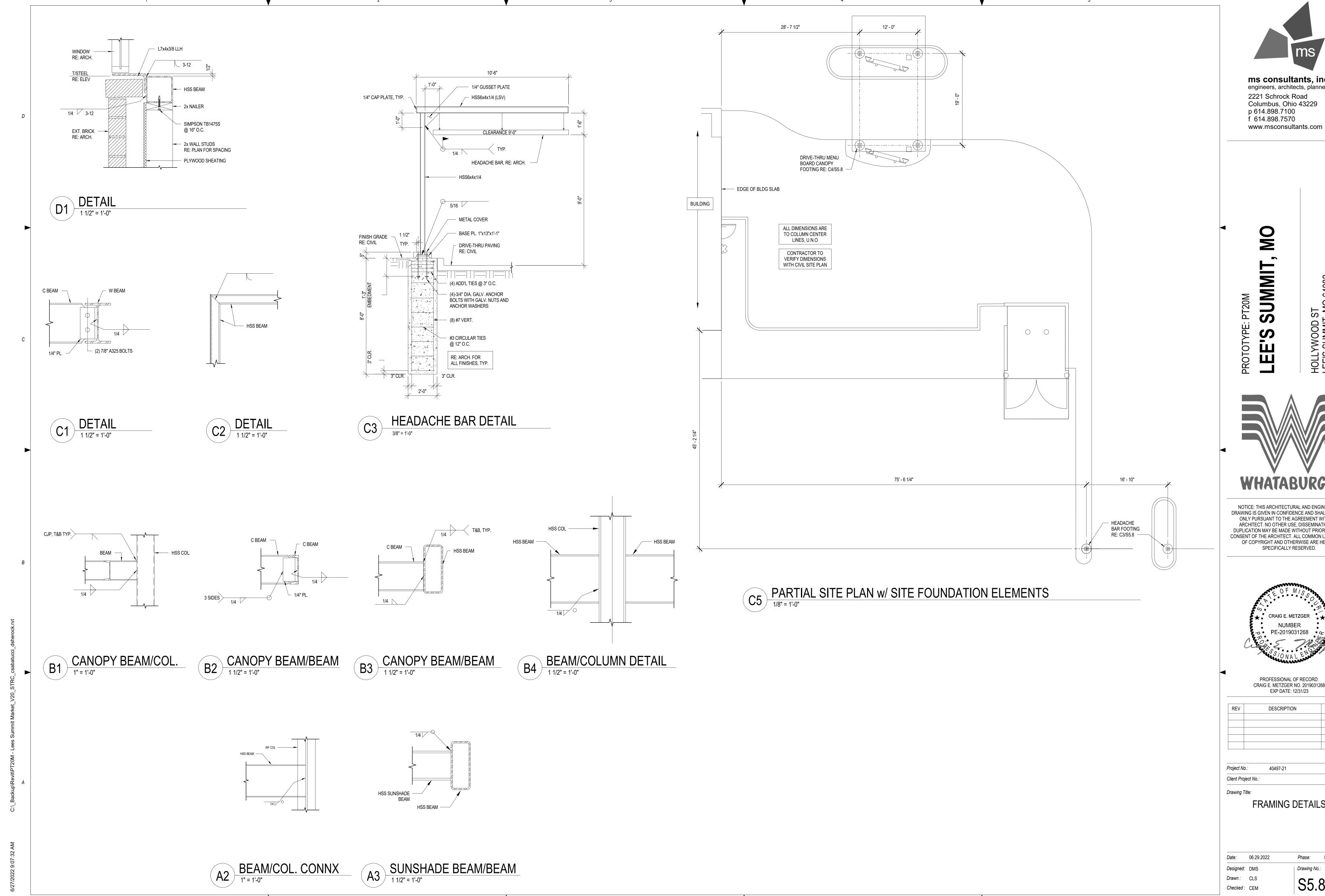
Project No.: 40497-21 Client Project No.:

Drawing Title:

FRAMING DETAILS

PERMIT SET Date: 06.29.2022 Designed: DMS Drawing No.: Drawn: CLS Checked: CEM

S5.7



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PROFESSIONAL OF RECORD: CRAIG E. METZGER NO. 2019031268 EXP DATE: 12/31/23

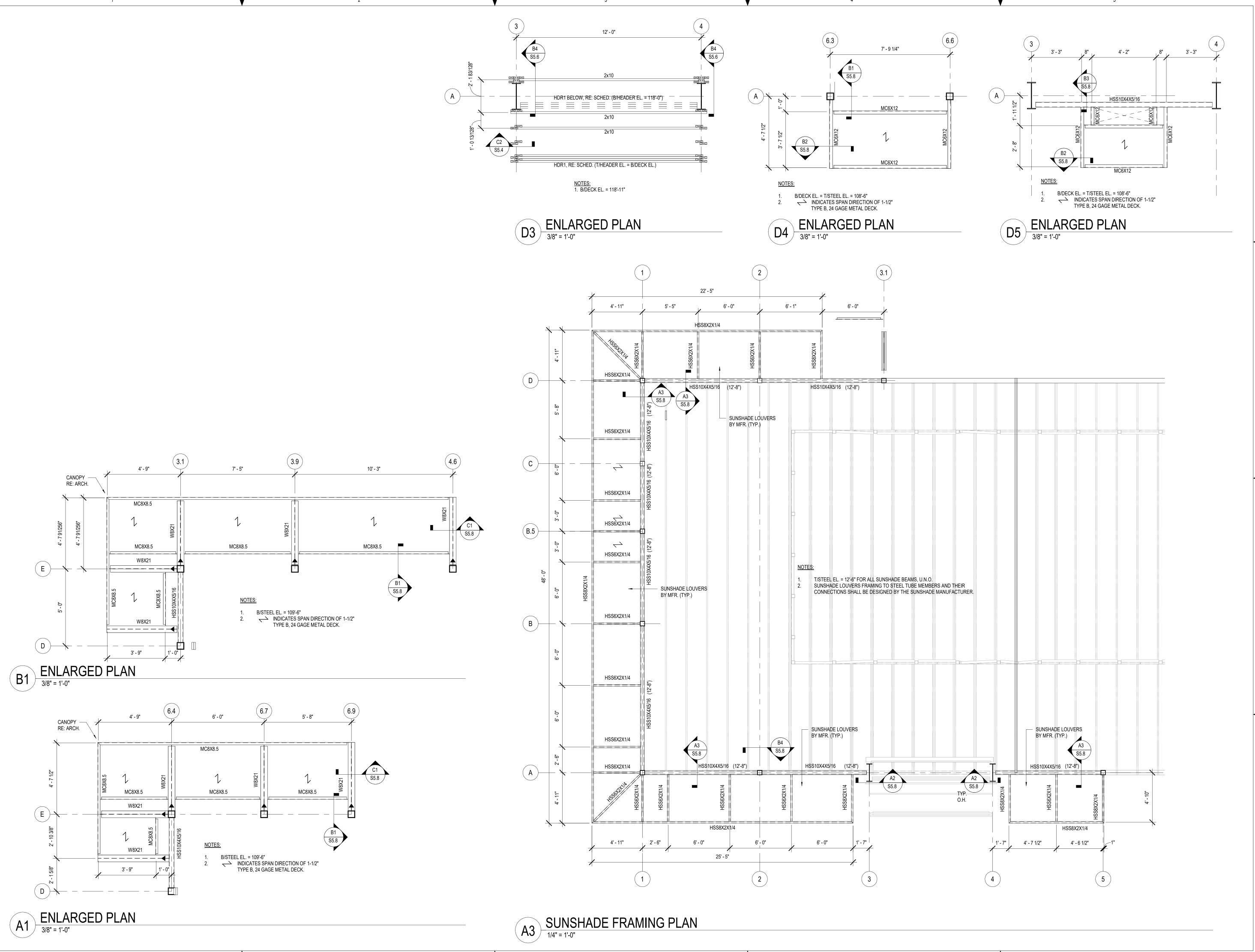
	REV	DESCRIPTION	DATE

40497-21

FRAMING DETAILS

PERMIT SET

S5.8





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SUMMIT, MO

PROTOTYPE: PT20M
LEE'S SUN

HOLLYWOOD ST LEE'S SUMMIT, MO 64082

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PROFESSIONAL OF RECORD: CRAIG E. METZGER NO. 2019031268 EXP DATE: 12/31/23

	REV	DESCRIPTION	DATE

Project No.: 40497-21

Client Project No.:

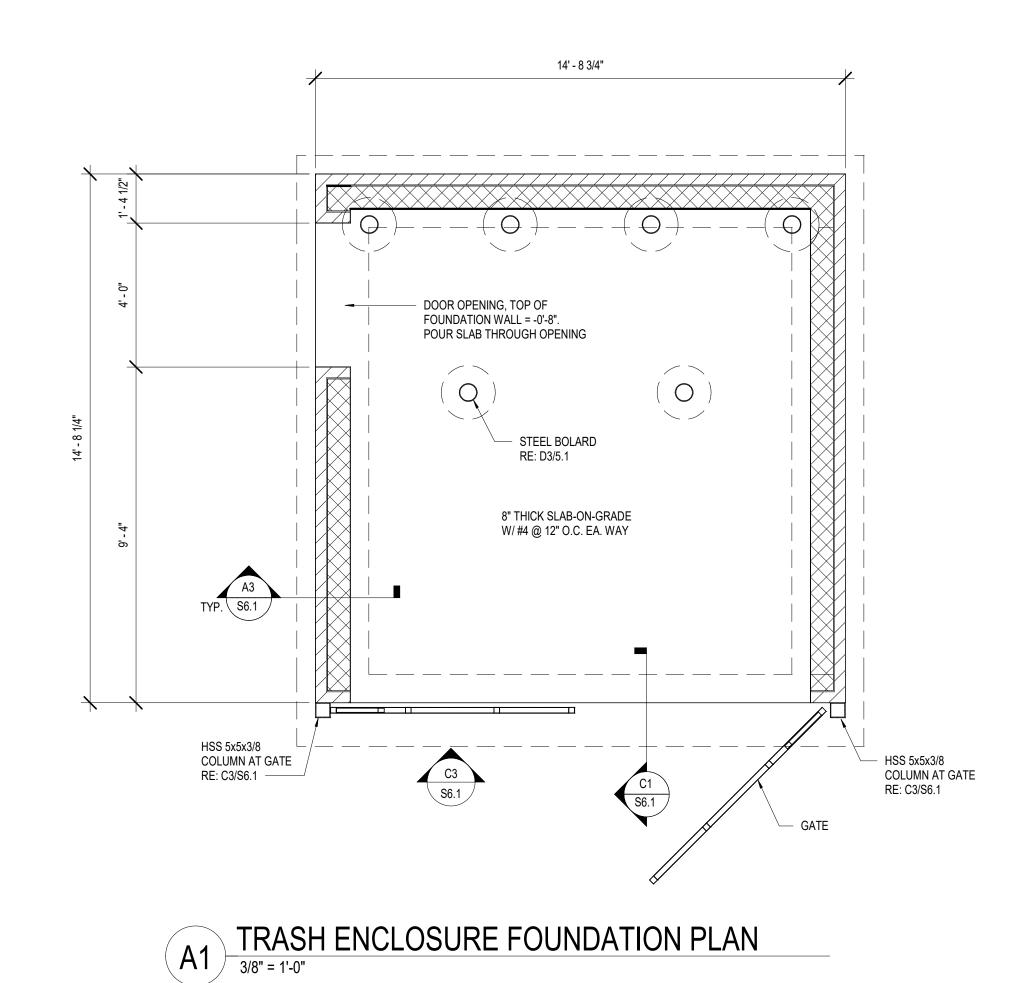
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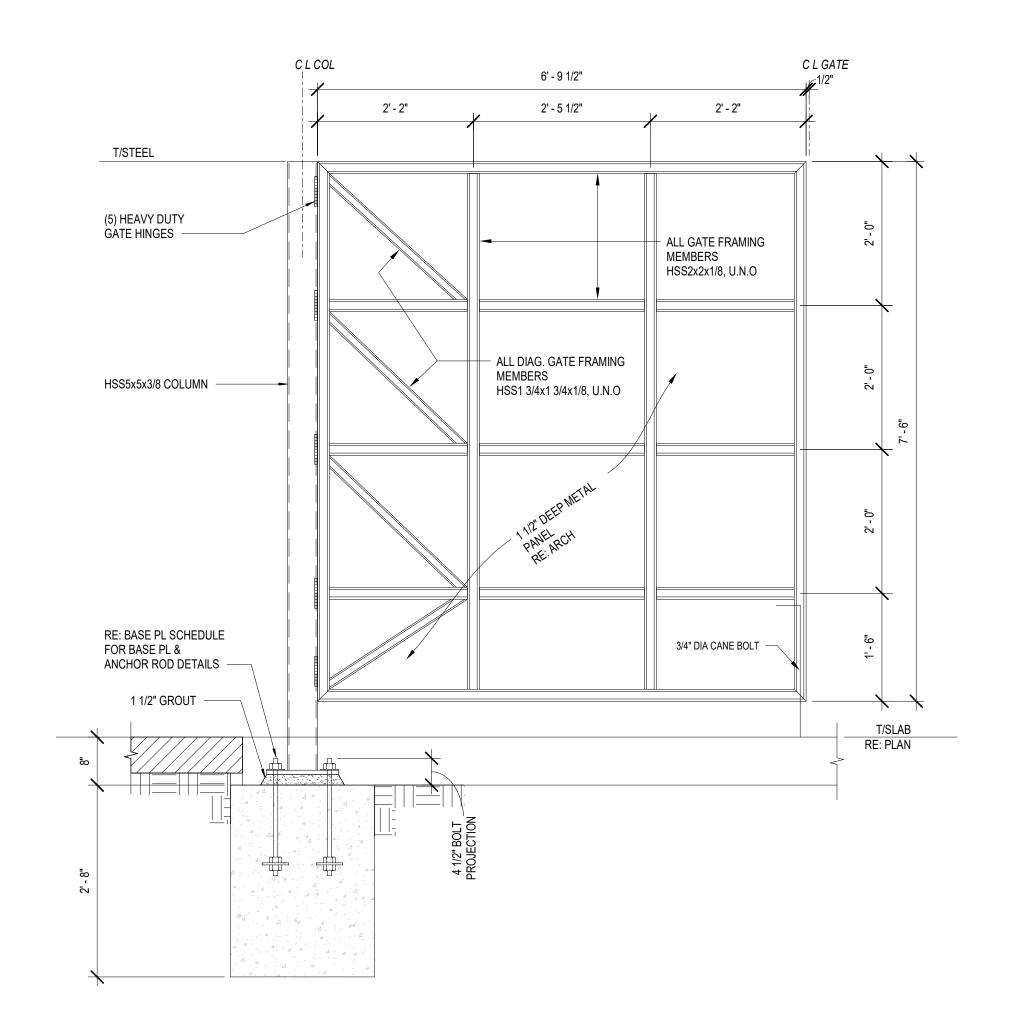
Drawing Title:

**ENLARGED PLANS** 

Date:	06.29.2022	Phase:	PERMIT SET
Designed:	DMS	Drawing No.:	
Drawn :	CLS	CE (	`
Checked :	CEM	S5.9	)

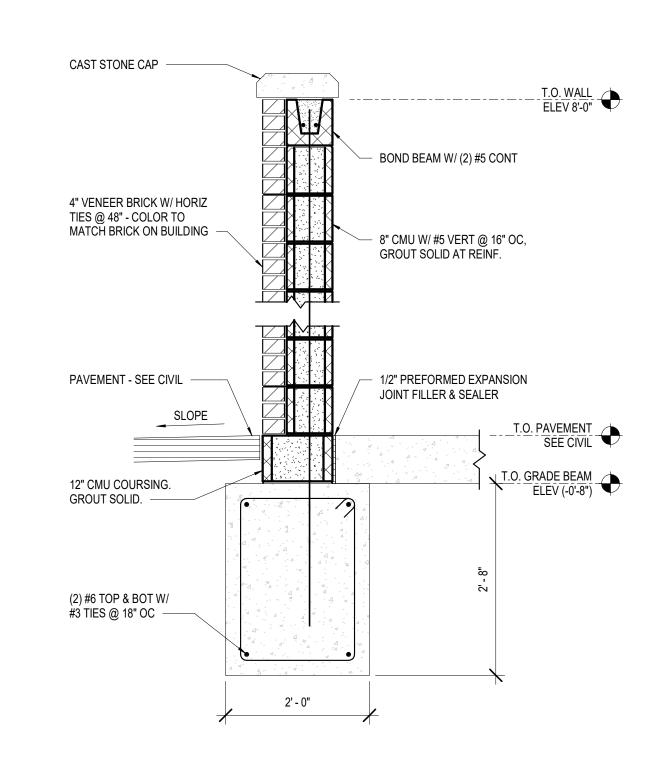
TRASH ENCLOSURE SECTION AT FRONT
3/4" = 1'-0"



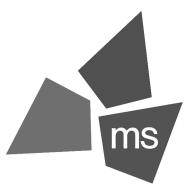


TRASH ENCLOSURE GATE ELEVATION

3/4" = 1'-0"



DUMPSTER WALL SECTION  $(A3) \frac{DUIVIP}{3/4" = 1'-0"}$ 



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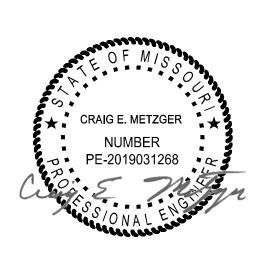
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PROTOTYPE: **LEE'S** 

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PROFESSIONAL OF RECORD: CRAIG E. METZGER NO. 2019031268 EXP DATE: 12/31/23

REV	DESCRIPTION	DATE

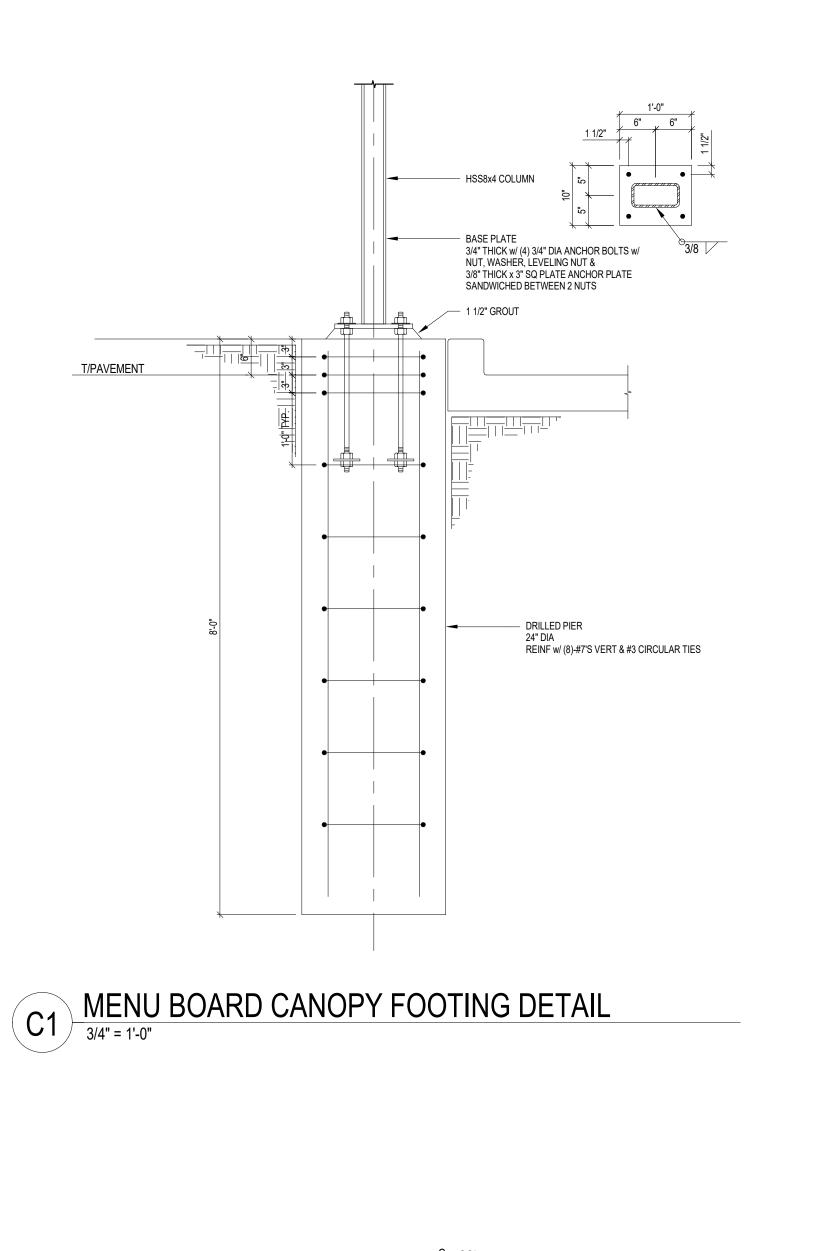
40497-21 Project No.: Client Project No.:

Drawing Title:

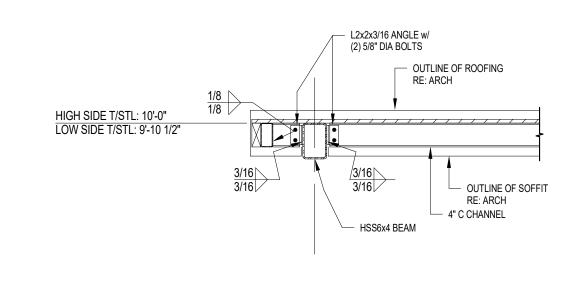
DUMPSTER ENCLOSURE PLANS & DETAILS

Date: 06.29.2022 PERMIT SET Phase: Designed: DMS Drawing No.: Drawn: CLS Checked: CEM

S6.1



A1 DOUBLE MENU BOARD CANOPY FOUNDATION PLAN
3/8" = 1'-0"



ROOF DECK5/8" THICK PLYWOOD/OSB ATTACH TO WOOD NAILERS w/

HSS4x4 BEAM

3/8" CAP PLATE HSS8x4 COLUMN

RING SHANK 8d NAILS AT 6" OC

BEAM TO BEAM CONNX DETAIL

RIPPED 2x6 NAILER -

HSS4x2 BEAM -

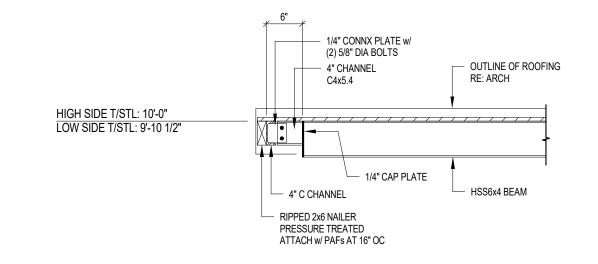
COLUMN TO BEAM CONNX DETAIL

C4x5.4 CHANNEL -

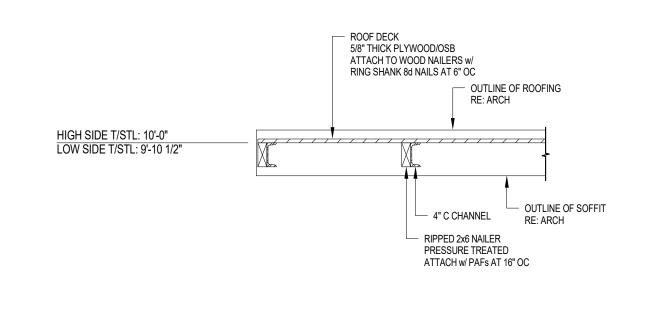
PRESSURE TREATED

ATTACH w/ PAFs AT 16" OC

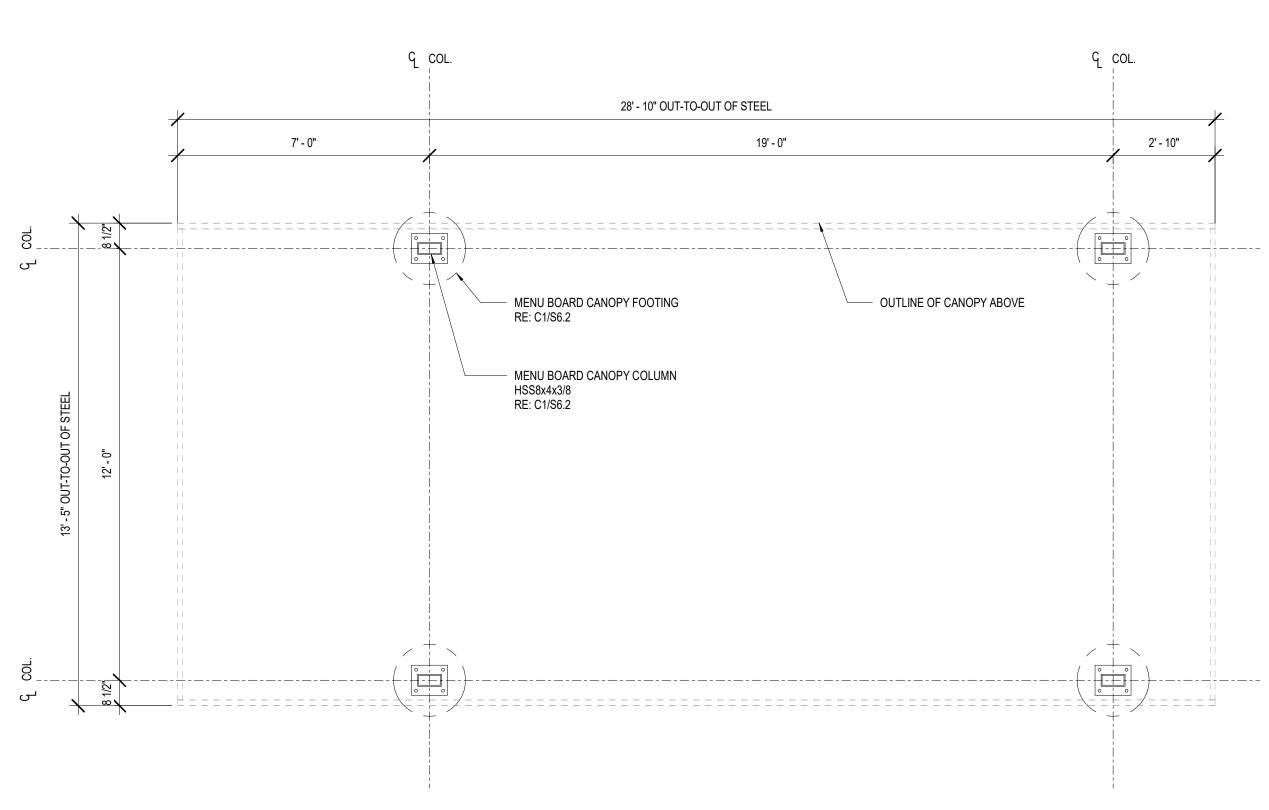
HIGH SIDE T/STL: 10'-0" LOW SIDE T/STL: 9'-10 1/2"

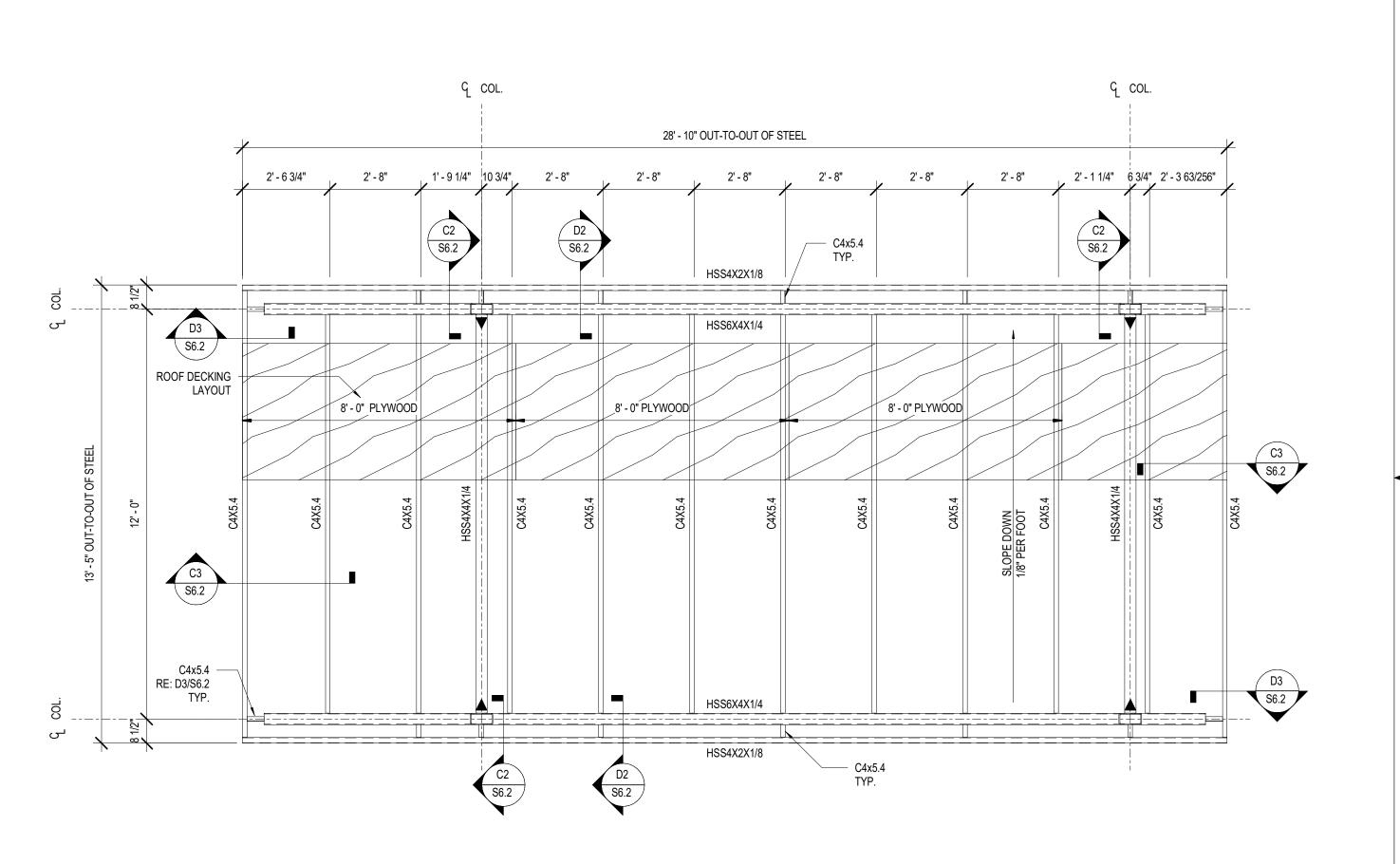


BEAM TO BEAM CONNX DETAIL



(C3) ROOF 3/4" = 1'-0"





DOUBLE MENU BOARD CANOPY FRAMING PLAN

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**LEE'S** 

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REV	DESCRIPTION	DATE

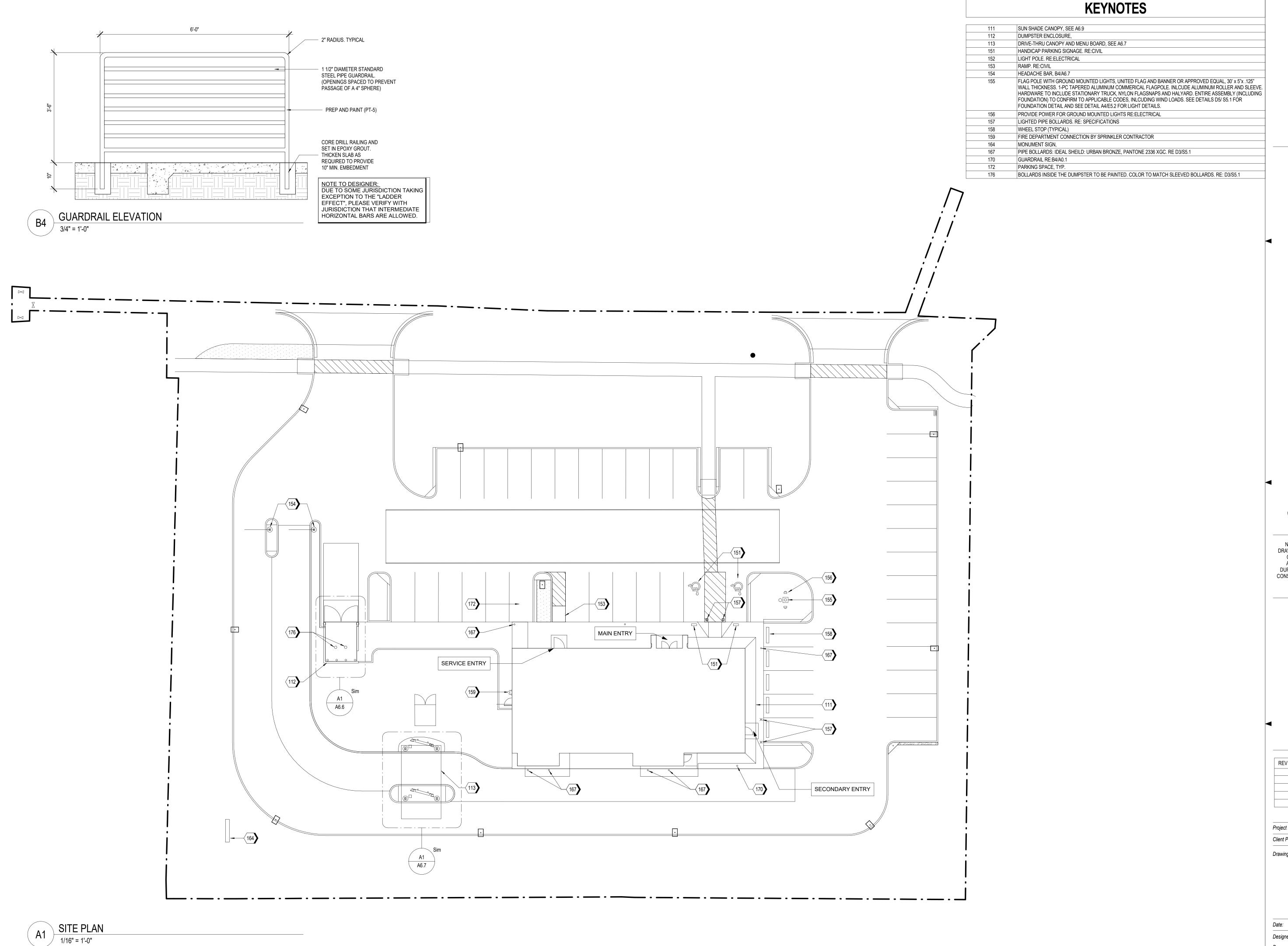
Project No.: 40497-21

Client Project No.:

Drawing Title:

DOUBLE MENU BOARD CANOPY

	Date:	06.29.2022	Phase:	PERMIT SET
	Designed:	DMS	Drawing No.:	
	Drawn:	CLS	26 (	,
1	Chacked:	CEM	.5n	





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ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528 EXP. DATE 12/31/2023

REV	DESCRIPTION	DATE

Project No.: 40497-21 Client Project No.:

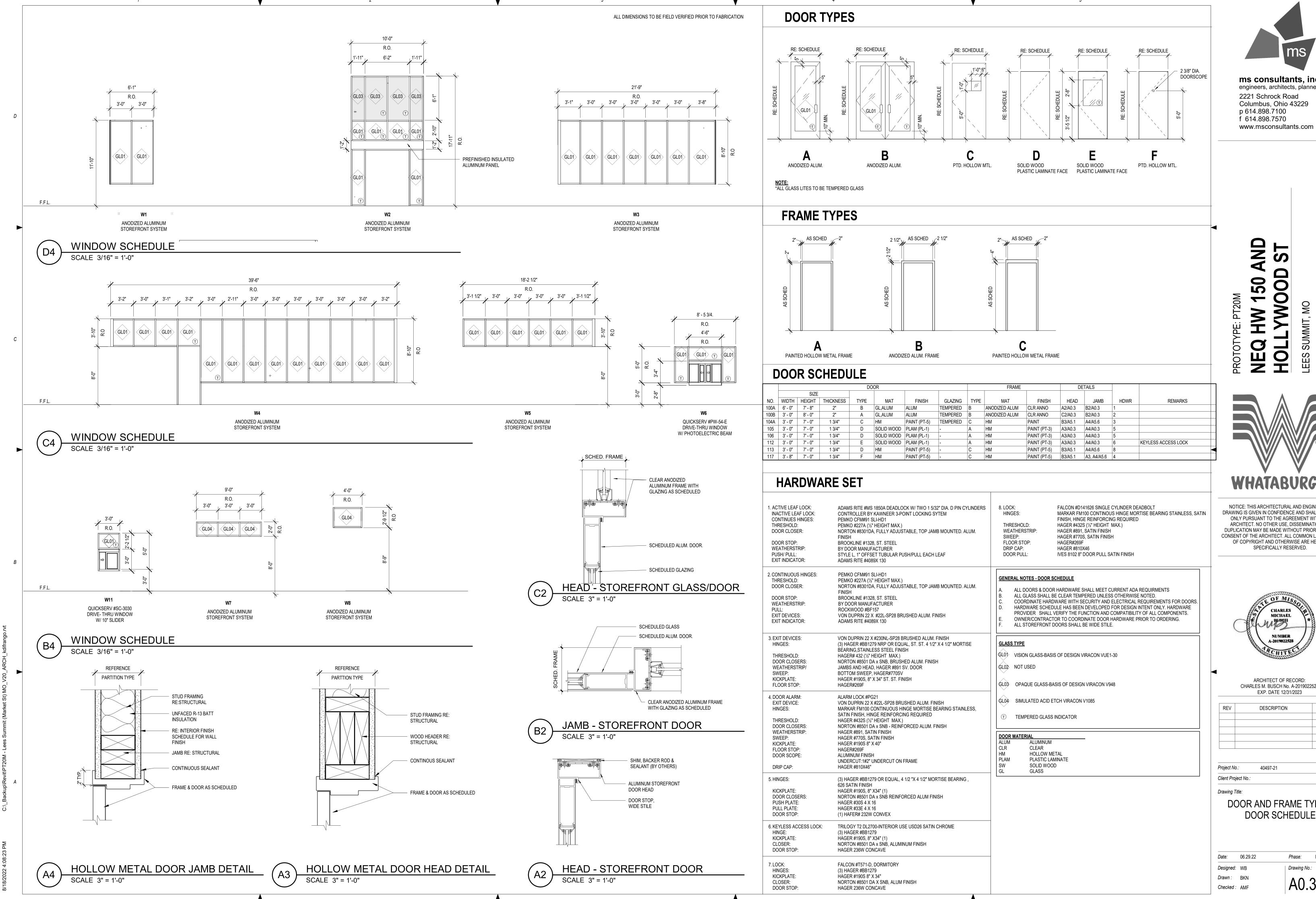
Drawing Title:

SITE PLAN

PERMIT SET Date: 06.29.22 Phase: Designed: Designer Drawing No.:

Drawn: Author Checked: Checker

A0.1



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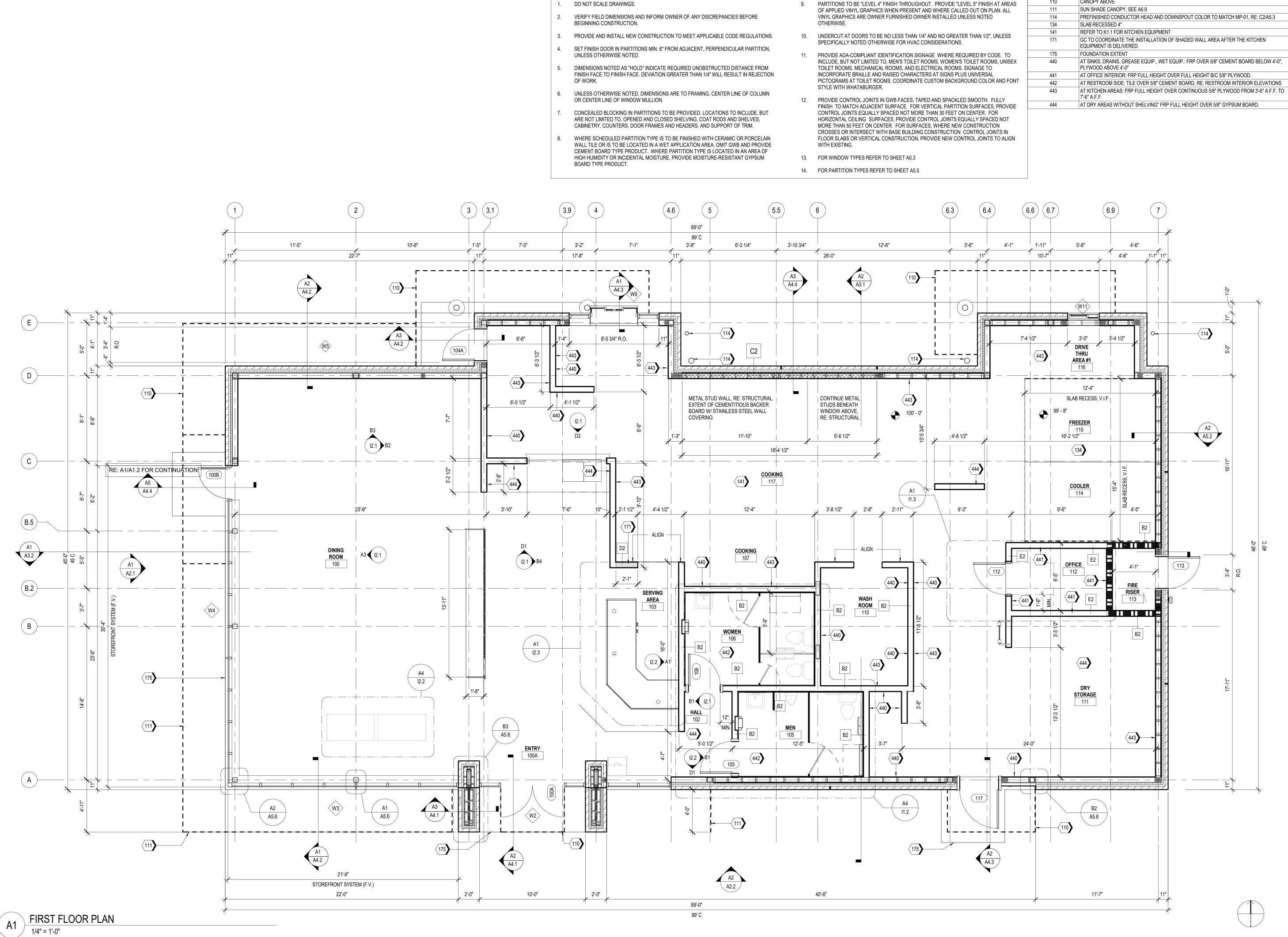


ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528

	DATE

DOOR AND FRAME TYPES, DOOR SCHEDULE

PERMIT SET Phase: Drawing No.:



**NOTES** 



**KEYNOTES** 

CANOPY ABOVE

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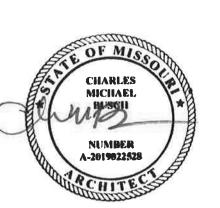
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ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528 EXP. DATE 12/31/2023

REV	DESCRIPTION	DATE

Project No.: 40497-21

Client Project No.: Drawing Title:

FLOOR PLAN

Date: 06.29.22 Designed: WB Drawing No.

Drawn: MDK Checked: RM

PARTIAL FLOOR PLAN AT DINING ROOM CLERESTORY

ms

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HW 150 AND
WOOD ST

NEQ HW 19 HOLLYWO



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ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528 EXP. DATE 12/31/2023

	REV	DESCRIPTION	DATE
_			<u> </u>

Project No.: 40497-21

Client Project No.:

Drawing Title:

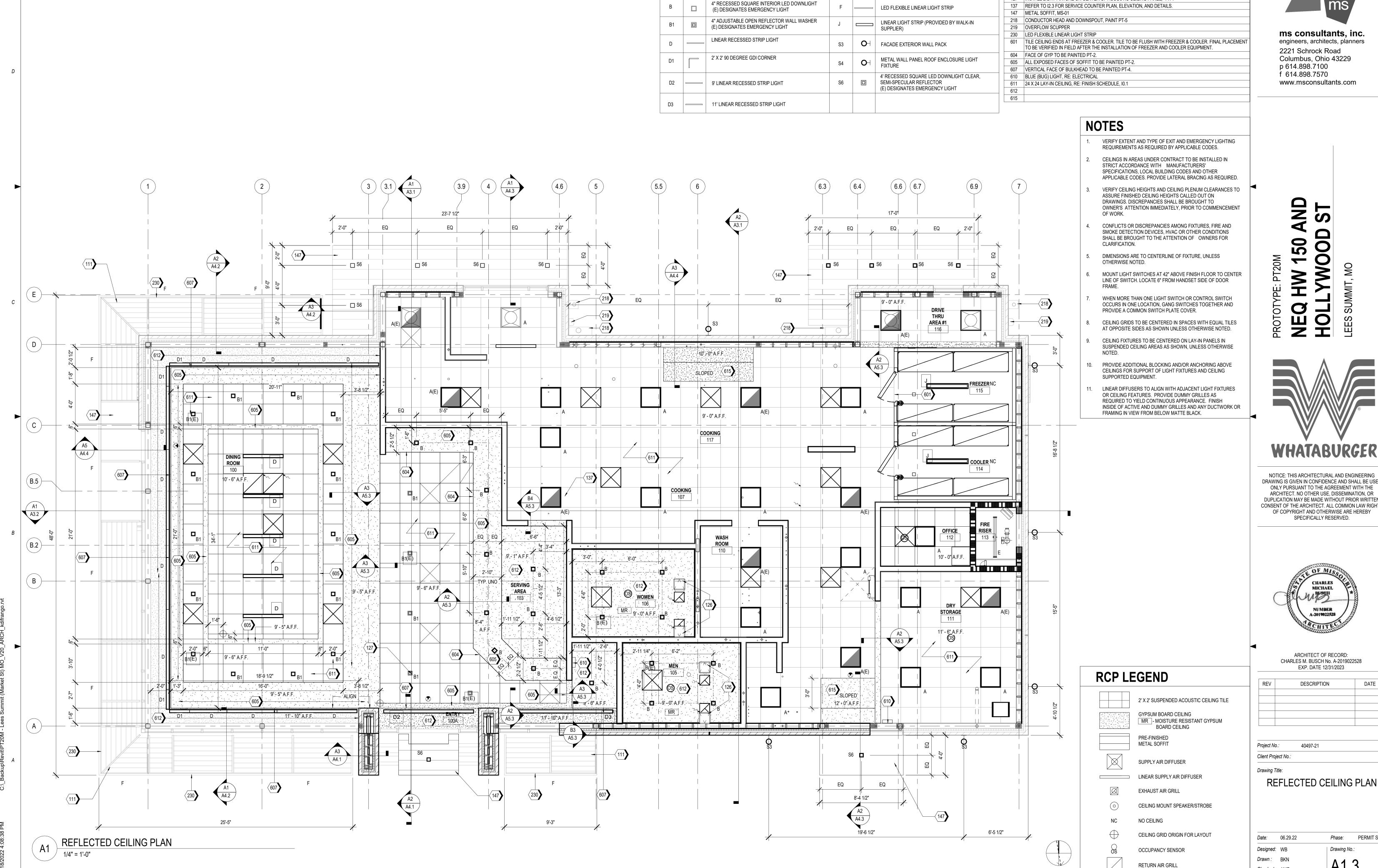
ENLARGED FLOOR PLAN

 Date:
 06.29.22
 Phase:
 PERMIT SET

 Designed:
 Designer
 Drawing No.:

Drawn: Author
Checked: Checker

A1.2



LIGHT FIXTURE SCHEDULE

(E) DESIGNATES EMERGENCY LIGHT

**KEYNOTES** 

127 INSTALL LIGHT FIXTURE ON CENTER OF ACOUSTIC CEILING PANEL, TYP.

111 SUN SHADE CANOPY, SEE A6.9

126 ACCESS PANEL

BACK OF HOUSE LED SHOPLIGHT

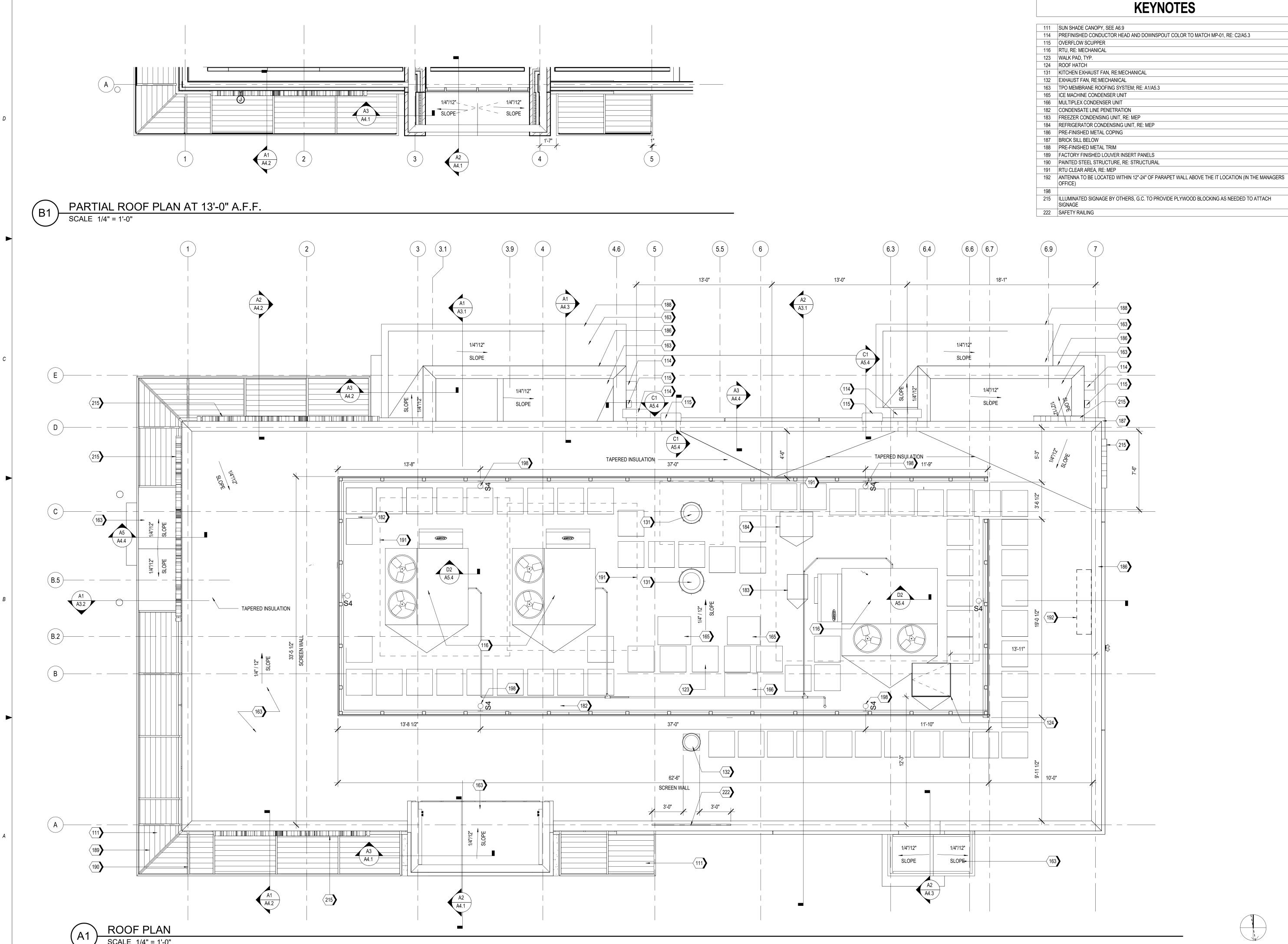
SUSPEND FROM STRUCTUE ABOVE BY CHAINS

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REV	DESCRIPTION	DATE

PERMIT SET

Checked: AMF





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HW 150 AND
WWOOD ST

NEQ HW 1 HOLLYW0



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ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528 EXP. DATE 12/31/2023

REV	DESCRIPTION	DATE

Project No.: 40497-21

Client Project No.:

Client Project N

Drawing Title:

ROOF PLAN

 Date:
 06.29.22
 Phase:
 PERMIT SET

 Designed:
 WB
 Drawing No.:

Drawn: BKN
Checked: AMF

A1.4

208

229

208

163

205

241

221

|(104A)

EAST ELEVATION (R.O.W)

1/4" = 1'-0"

T.O. MECH. SCREEN WALL

T.O. MECH. SCREEN WALL

T.O. <u>ST</u>L. <u>CANOPY</u> 112' - 6"

OF DRIVE THRU
112' - 0"

DRIVE THRU 109' - 6"

T.O. SILL 3' - 0"

T.O. SLAB 100' - 0"

T.O. PARAPET AT LOW ROOF

B.O. STL. AT CANOPY OVER

206

GLAZING SF 313 SF BRICK SF 375 SF METAL SF 197 SF TOTAL SF 885 SF

12'-5"

1. EXTERIOR SIGNAGE TO BE PERMITED UNDER A SEPARATE SIGN PERMIT SET.

**KEYNOTES** 

163 TPO MEMBRANE ROOFING SYSTEM; RE: A1/A5.3 167 PIPE BOLLARDS: IDEAL SHEILD: URBAN BRONZE, PANTONE 2336 XGC. RE D3/S5.1

203 MP-01; PRE-FINISHED CORRUGATED METAL PANEL

204 MP-02

205 BR-01; BRICK VENEER 206 BR-02

208 MC-01; PRE-FINISHED METAL COPING 209 SS-01; ALUMINUM STOREFRONT SYSTEM

210 PRE-FINISHED DRIVE-THRU CANOPY 211 ENTRY PORTAL CANOPY, PAINT PT-5 213 SERVICE DOOR CANOPY, PAINT PT-5

214 SUN SHADE CANOPY, SEE A6.9 215 ILLUMINATED SIGNAGE BY OTHERS, G.C. TO PROVIDE PLYWOOD BLOCKING AS NEEDED TO ATTACH

219 OVERFLOW SCUPPER

221 DRIVE-THRU WINDOW 229 MP-03; ROOF SCREEN WALL, RE: STRUCTURAL

218 CONDUCTOR HEAD AND DOWNSPOUT, PAINT PT-5

231 MASONRY EXPANSION JOINT

232 FIRE DEPARTMENT CONNECTION, RE: FIRE PROTECTION

233 EXTERIOR LIGHT FIXTURE, RE: ELECTRICAL 234 RTU, RE: MECHANICAL

236 RISER ROOM SIGN (PER 2015 IFC CHAPTER 5 - APPROVED SIGNS SHALL BE CONSTRUCTED OF DURABLE MATERIALS, PERMANENTLY INSTALL AND READILY VISIBLE. LETTERS SHALL BE A MINIMUM OF 2" WITH A MINIMUM 3/8" STROKE, THE COLORS OF THE LETTERS SHALL BE CONTRASTING WITH RESPECT TO BACKGROUND.

237 BUILDING ADDRESS 6"HIGH WHITE VINYL NUMBERS WITH 1" STROKE, 10' A.F.G. 238 GENERAL CONTRACTOR SHALL PROVIDE A KNOX BOX PER JURISDICTIONAL REQUIREMENTS, LOCATION TO

BE VERIFIED PRIOR TO CONSTRUCTION. 239 EMERGENCY STEP LIGHT. RE: ELECTRICAL

240 DASHED LINE INDICATES TOP OF DECK. 241 DASHED LINE INDICATES ROOF TOP EQUIPMENT

#### **EXTERIOR MATERIAL SCHEDULE**

VISION GLASS BASIS OF DESIGN: VIRACON VUE1-30 SHADING COEFFICIENT (SC): .20 EXTERIOR REFLECTION: 19% SOLAR HEAT GAIN COEFFICIENT (SHGC): .18 U-FACTOR: .26

GL-02 NOT USED

GL-03 OPAQUE GLASS BASIS OF DESIGN: VIRACON V948

GL-04 SIMULATED ACID ETCHED VIRACON V1085

STOREFRONT SYSTEM BASIS OF DESIGN: OLDCASTLE STYLE: FG-3000 FINISH: CLEAR ANODIZED

METAL PANEL MANUFACTURER: BERRIDGE STYLE: BR-12 PANEL 0.040 ALUMINUM

COLOR: LEAD-COTE

MP-02 PREFINISHED METAL FLASHING 0.050" THICK COLOR: LEAD-COTE TO MATCH MP-01

METAL PANEL MANUFACTURER: BERRIDGE STYLE: BR-12 PANEL 0.040 ALUMINUM COLOR: LEAD-COTE

BRICK MANUFACTURER: ACME STYLE: UTILITY SIZE: 4" x 4" x 12" COLOR: PARK AVENUE

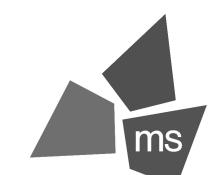
BR-02 BRICK MANUFACTURER: ACME STYLE: UTILITY SIZE: 4" x 4" x 12" COLOR: DOVE GRAY

MORTAR MANUFACTURER: AHI COLOR: VANILLA -N

MC-01 METAL COPING MANUFACTURER: BERRIDGE STYLE: SHADOWLINE COPING REVEAL COPING COLOR: LEADCOTE

PT-5 PAINT BASIS OF DESIGN: MANUFACTURER: SHERWIN WILLIAMS STYLE: SW 6277 SPECIAL GRAY SHEEN: FLAT

MS-01 METAL SOFFIT MANUFACTURER: BERRIDGE STYLE: HS-8 FINISH: PRE-FINISHED TO MATCH PT-5



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AND 150

NEQ 9



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ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528 EXP. DATE 12/31/2023

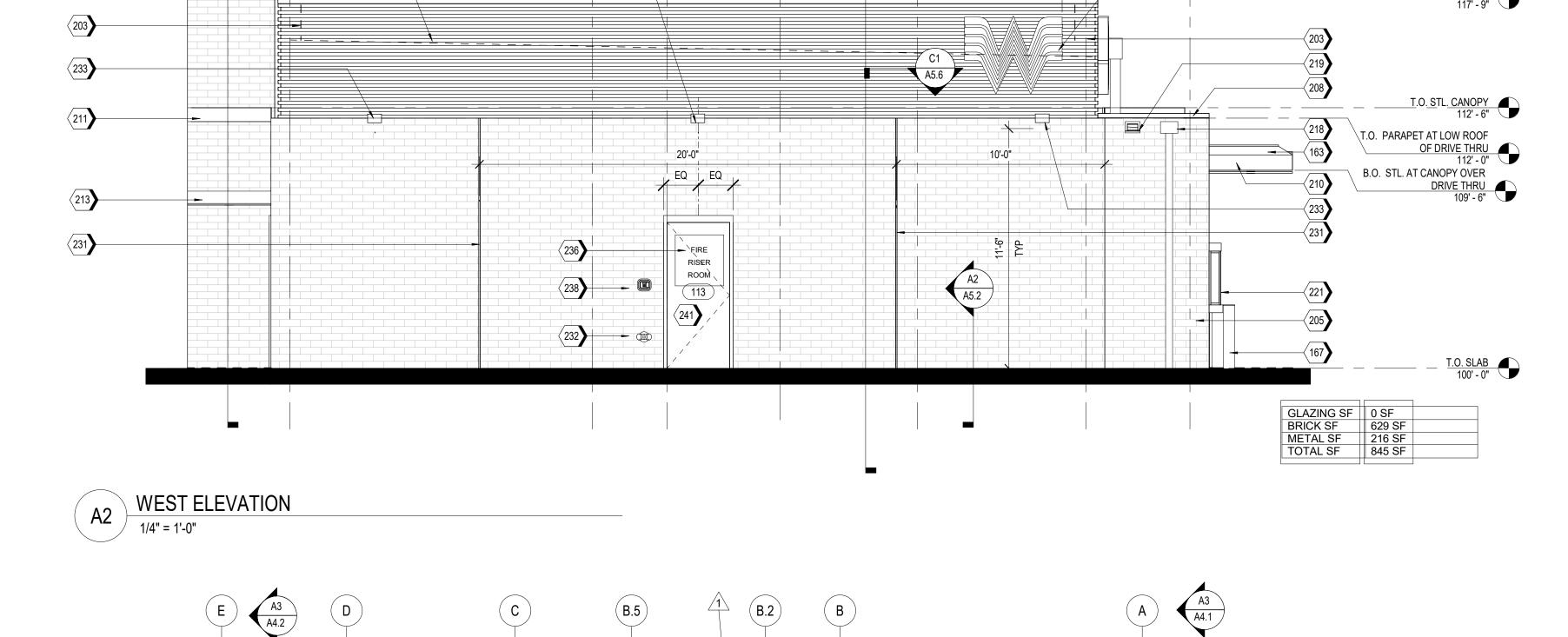
REV	DESCRIPTION	DATE
1	DEVELOP. SERVICES	8/18/22

Project No.: 40497-21 Client Project No.:

Drawing Title:

**EXTERIOR ELEVATIONS** 

Date:	06.29.22	Phase:	PERMIT SET
Designed:	WB	Drawing No.:	
Drawn:	BKN	<b>A O A</b>	İ
Checked:	AMF	A2.1	



(B.2)

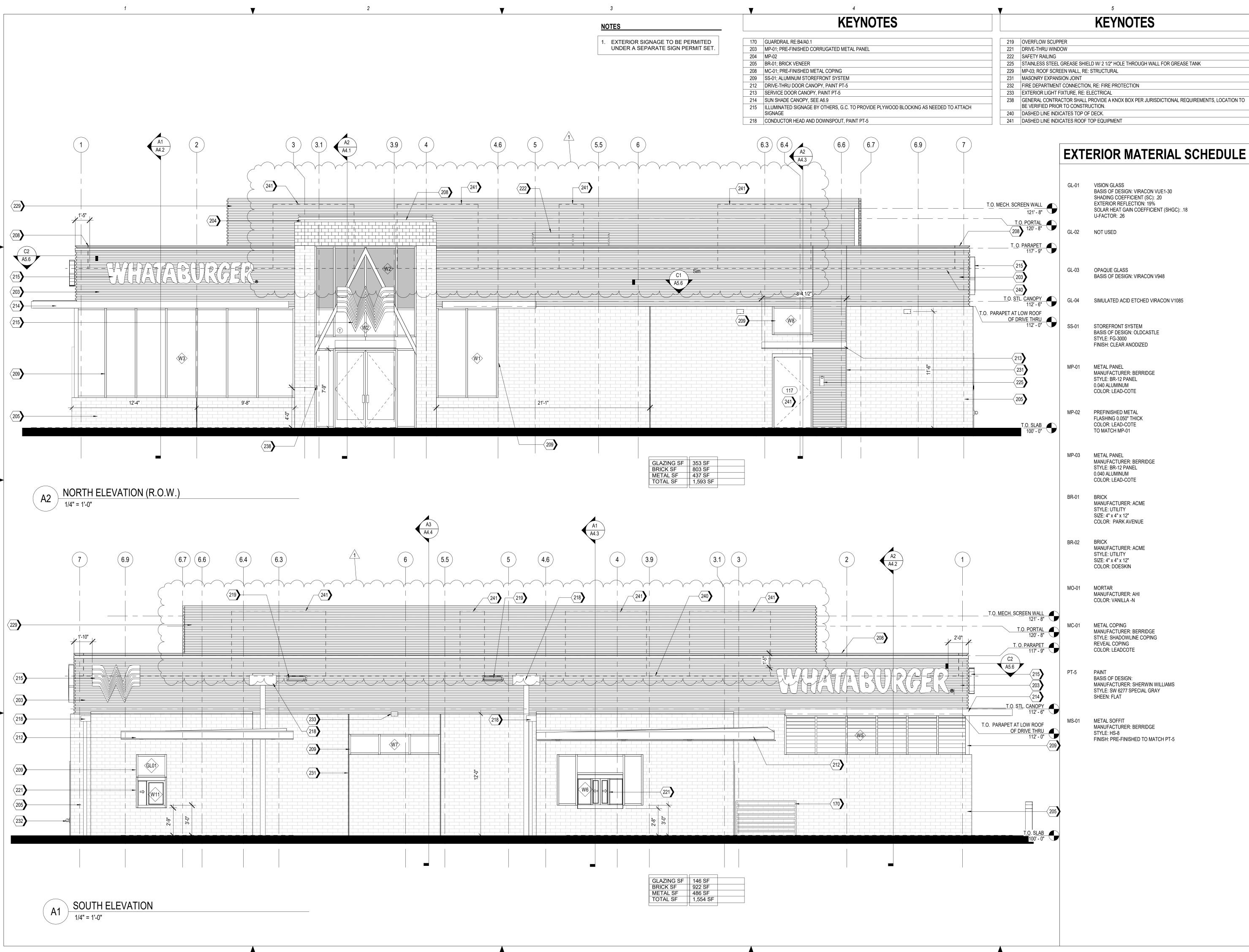
XXXX- 237**)** 

14'-10"

(100B)

 $(\mathsf{\,c\,})$ 

A4.4





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> HW 150 AND YWOOD ST

NEQ HW HOLLYW

WHATABURGER

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ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528 EXP. DATE 12/31/2023

REV	DESCRIPTION	DATE
1	DEVELOP. SERVICES	8/18/22

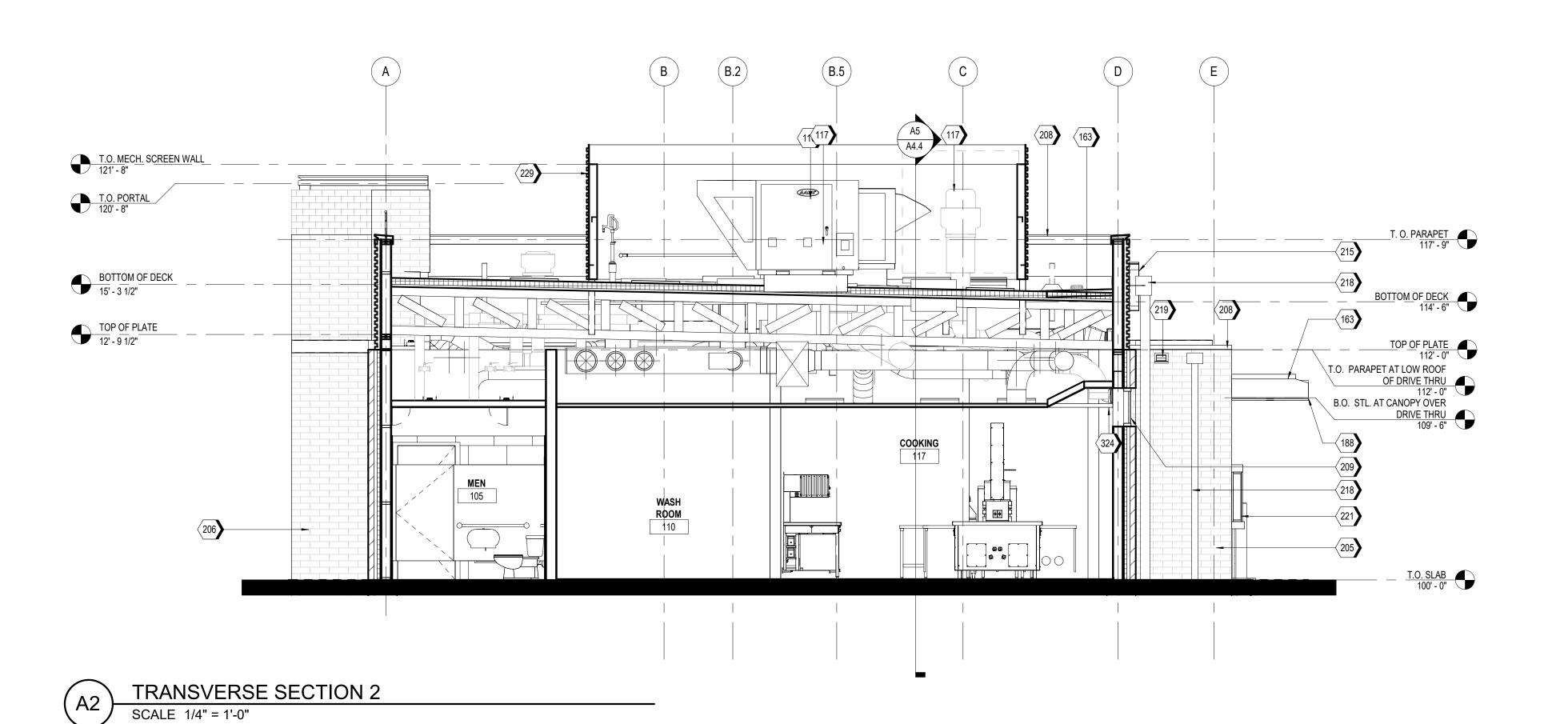
Project No.: 40497-21

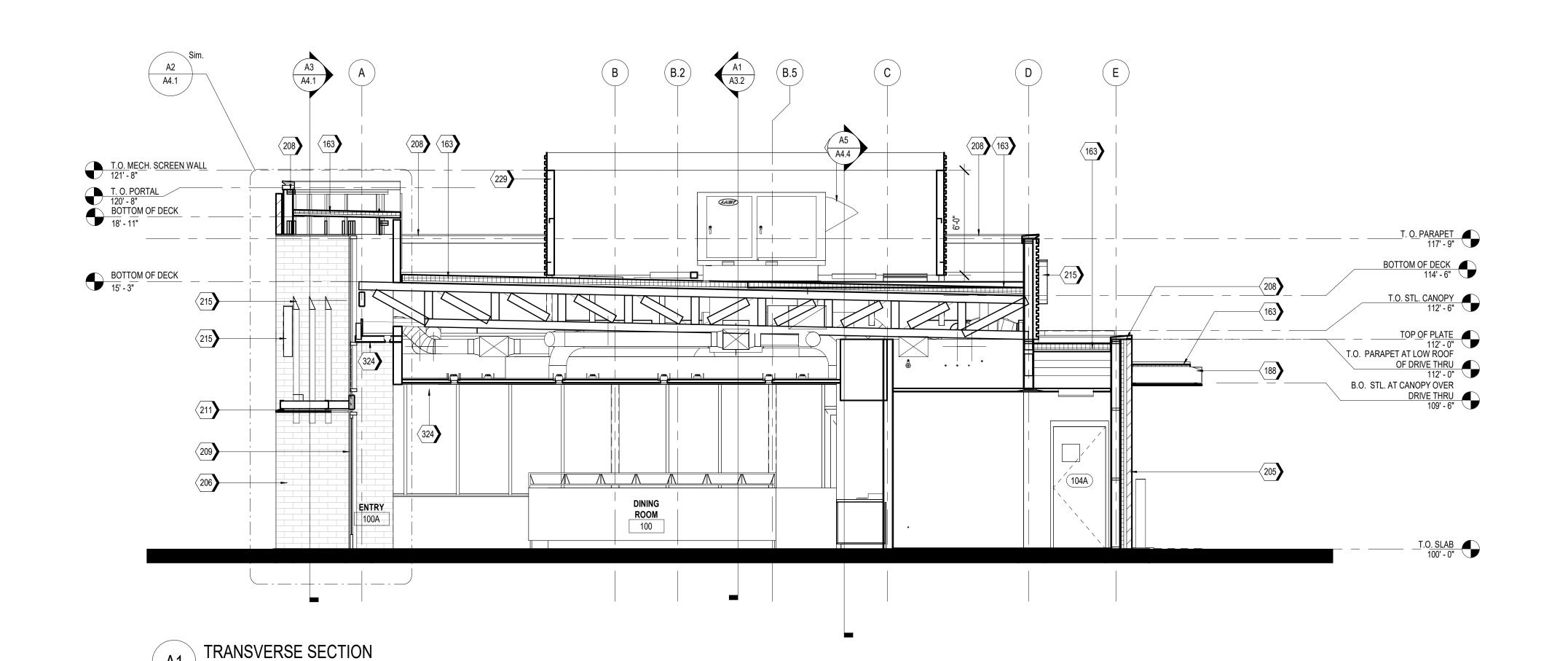
Client Project No.:

Drawing Title:

**EXTERIOR ELEVATIONS** 

Date		06.29.22	Phase:	PERMIT SET
Desig	gned:	WB	Drawing No.:	
Draw	n:	BKN	<b>AD</b>	)
Chec	ked :	AMF	A2.2	_
_		· ·		





### **KEYNOTES**

- 116 RTU, RE: MECHANICAL 117 EXHAUST FAN, RE: MECHANICAL
- 163 TPO MEMBRANE ROOFING SYSTEM; RE: A1/A5.3
- 188 PRE-FINISHED METAL TRIM
- 205 BR-01; BRICK VENEER
  206 BR-02
  208 MC-01; PRE-FINISHED METAL COPING
- 209 SS-01; ALUMINUM STOREFRONT SYSTEM
- 211 ENTRY PORTAL CANOPY, PAINT PT-5
- 215 ILLUMINATED SIGNAGE BY OTHERS, G.C. TO PROVIDE PLYWOOD BLOCKING AS NEEDED TO ATTACH SIGNAGE
- 218 CONDUCTOR HEAD AND DOWNSPOUT, PAINT PT-5
- 219 OVERFLOW SCUPPER 221 DRIVE-THRU WINDOW
- 229 MP-03; ROOF SCREEN WALL, RE: STRUCTURAL
- 324 CEILING AS SCHEDULED, RE: A1.3

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ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528 EXP. DATE 12/31/2023

REV	DESCRIPTION	DATE

Project No.: 40497-21

Client Project No.:

Drawing Title:

**BUILDING SECTIONS** 

Date:	06.29.22	Phase:	PERMIT SE
Designed:	WB	Drawing No.:	
Drawn :	BKN	A 0	1

Checked: AMF

A3.1

163 TPO MEMBRANE ROOFING SYSTEM; RE: A1/A5.3

203 MP-01; PRE-FINISHED CORRUGATED METAL PANEL 205 BR-01; BRICK VENEER

208 MC-01; PRE-FINISHED METAL COPING
209 SS-01; ALUMINUM STOREFRONT SYSTEM

213 SERVICE DOOR CANOPY, PAINT PT-5 215 ILLUMINATED SIGNAGE BY OTHERS, G.C. TO PROVIDE PLYWOOD BLOCKING AS NEEDED TO ATTACH SIGNAGE

229 MP-03; ROOF SCREEN WALL, RE: STRUCTURAL 241 DASHED LINE INDICATES ROOF TOP EQUIPMENT

320 RIGID INSULATION

324 CEILING AS SCHEDULED, RE: A1.3 607 VERTICAL FACE OF BULKHEAD TO BE PAINTED PT-4.

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	REV	DESCRIPTION	DATE
-			

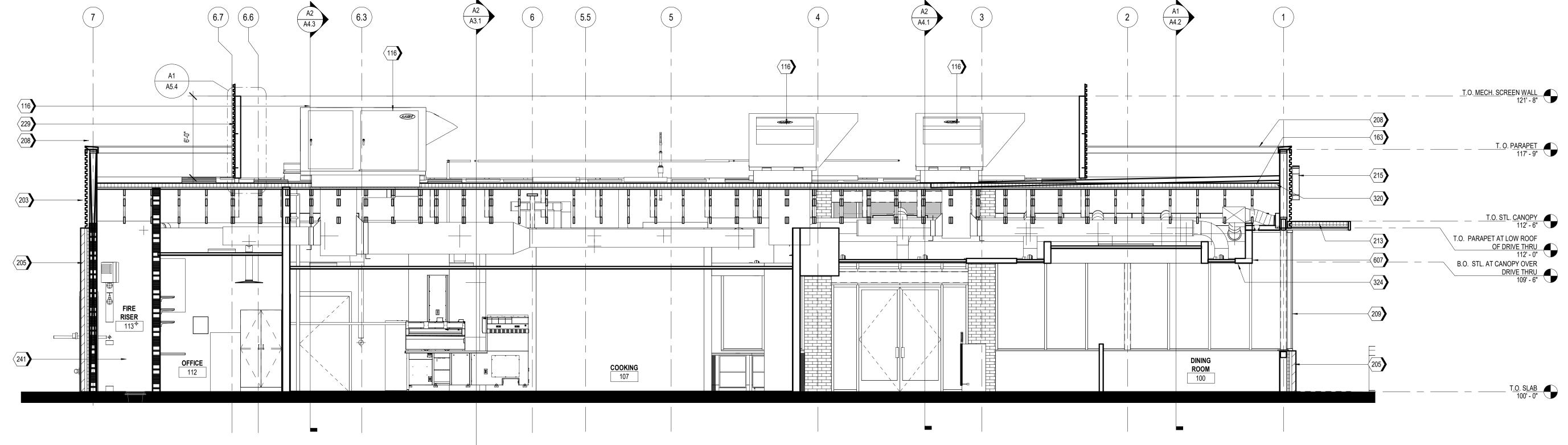
40497-21 Project No.: Client Project No.:

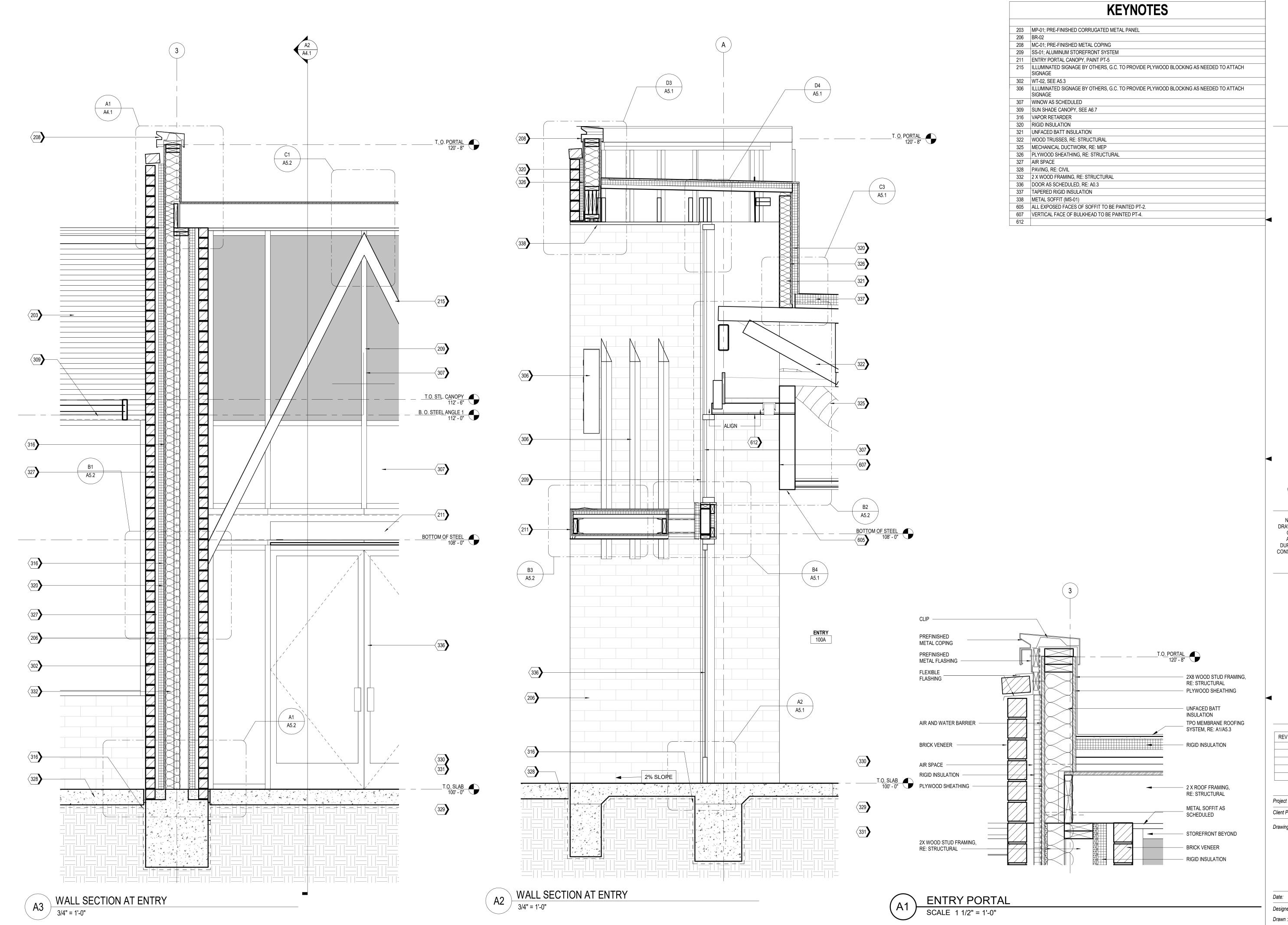
Drawing Title:

**BUILDING SECTIONS** 

Phase: PERMIT SET Date: 06.29.22 Designed: Designer Drawing No.:

Drawn: Author A3.2 Checked: Checker







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: PT20M W 150 AND WOOD ST

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REV	DESCRIPTION	DATE

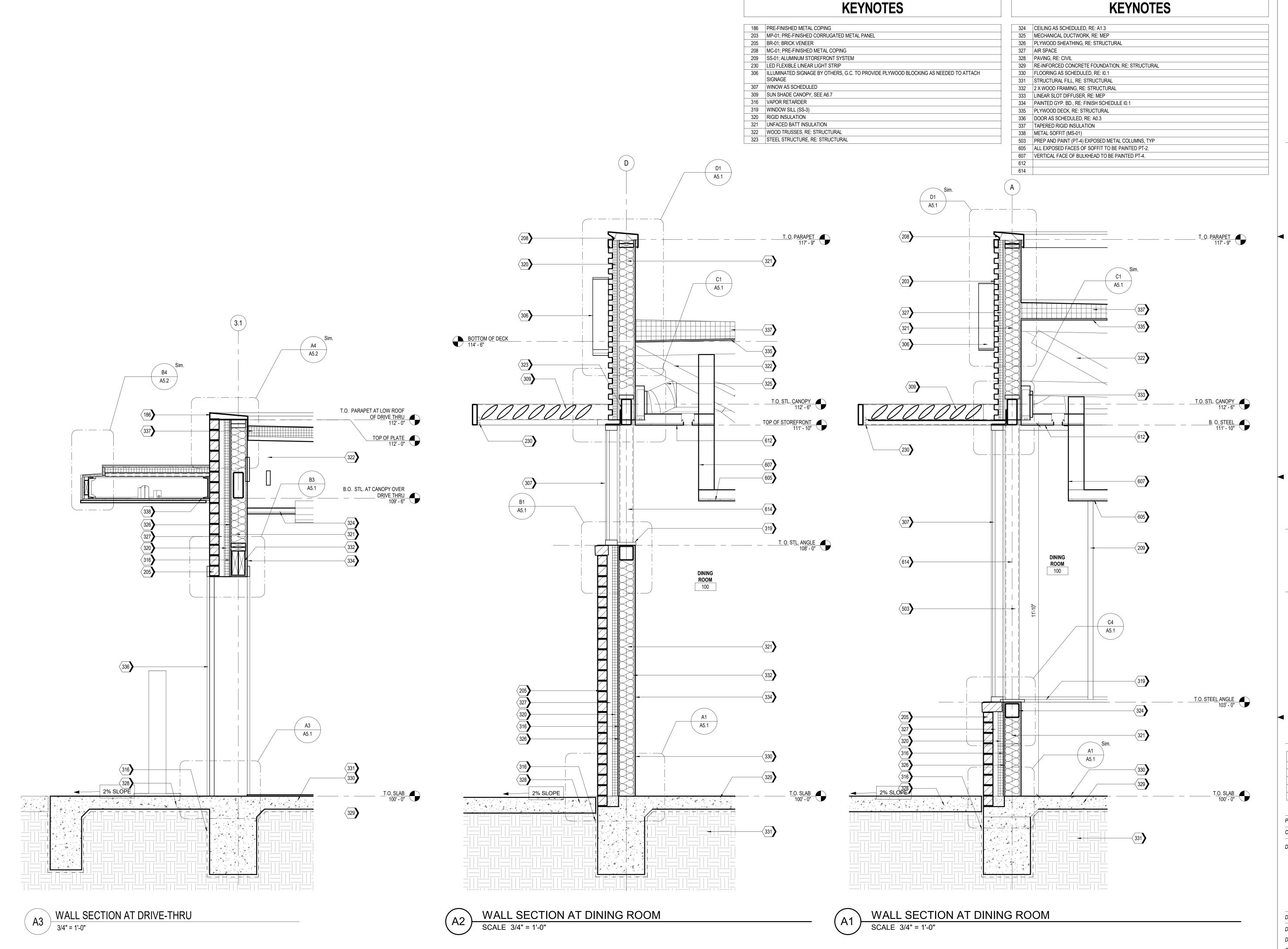
Project No.: 40497-21

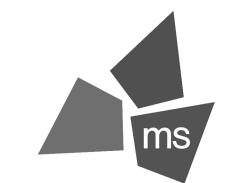
Client Project No.:

Drawing Title:

WALL SECTIONS

Date:	06.29.22	Phase:	PERMIT SET
Designed:	WB	Drawing No.:	
Drawn :	BKN	Λ <i>Λ</i> -	1
Checked:	AMF	A4.1	





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PE: PT20M HW 150 AND YWOOD ST

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ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528 EXP. DATE 12/31/2023

DESCRIPTION	DATE

Project No.: 40497-21

Client Project No.:

Drawing Title:

WALL SECTIONS

Date: 06.29.22 Phase: PERMIT SET

Designed: WB Drawing No.:

Drawn: BKN
Checked: AMF

A4.2

8/2022 4:09:26 PM

**KEYNOTES** 



**KEYNOTES** 

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YPE: PT20M HW 150 AND LYWOOD ST

NEQ HW HOLLYW



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REV	DESCRIPTION	DATE

Project No.: 40497-21

Client Project No.:

Client Project No.:

Drawing Title:

WALL SECTIONS

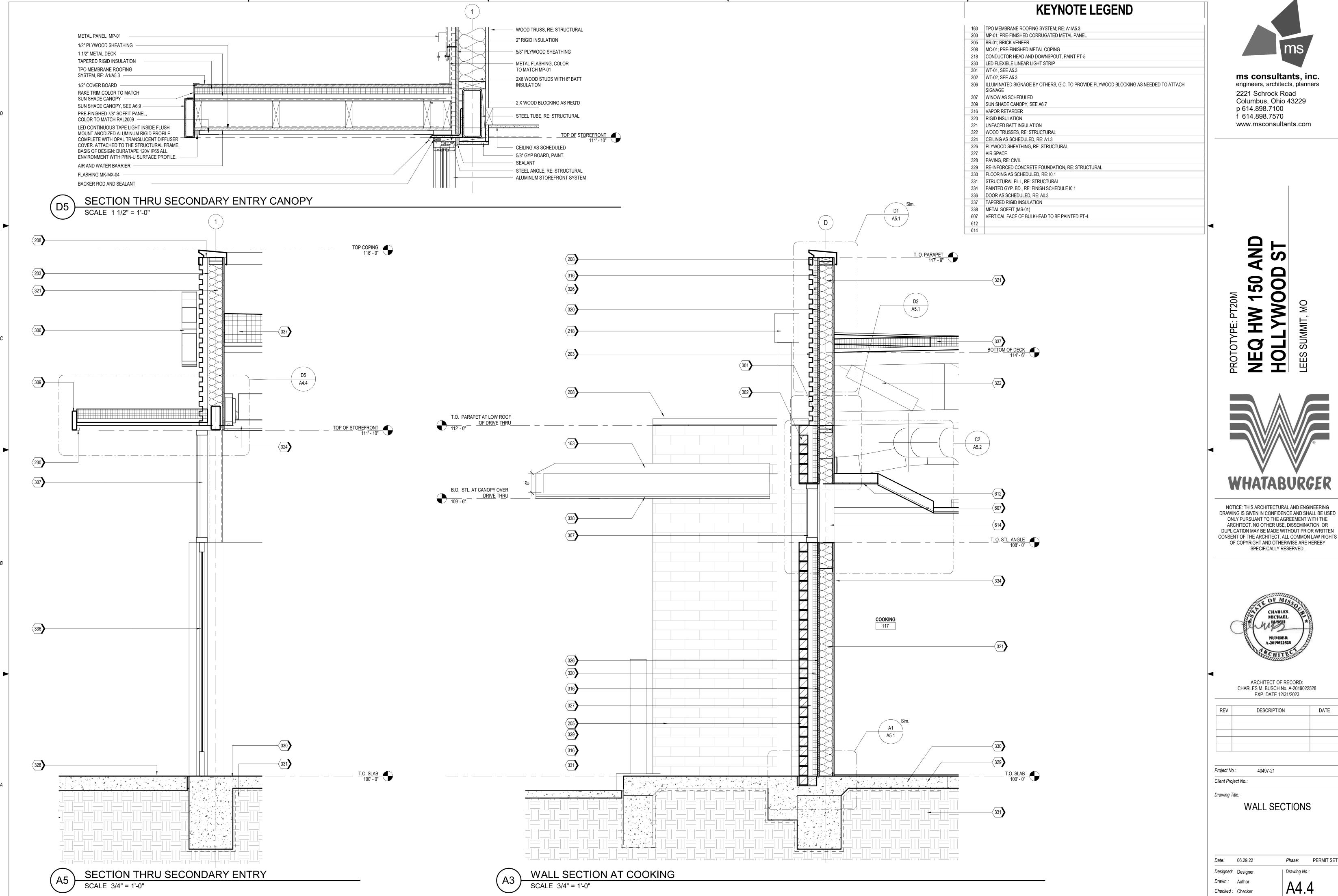
 Date:
 06.29.22
 Phase:
 PERMIT SE

 Designed:
 Designer
 Drawing No.:

 Drawn:
 Author

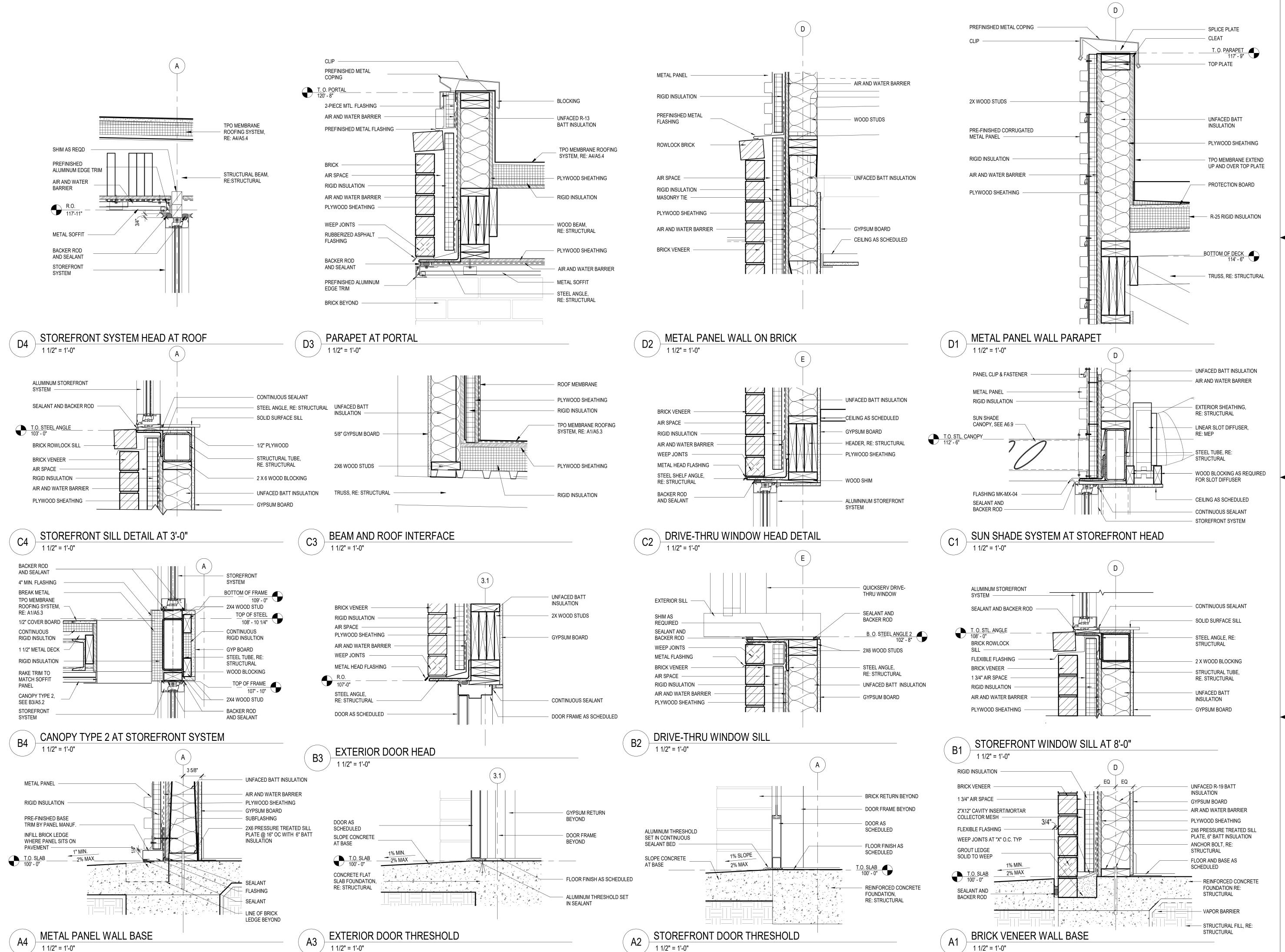
Drawn: Author
Checked: Checker

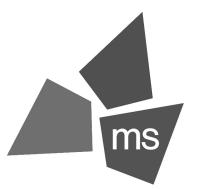
Author



REV	DESCRIPTION	DATE

PERMIT SET





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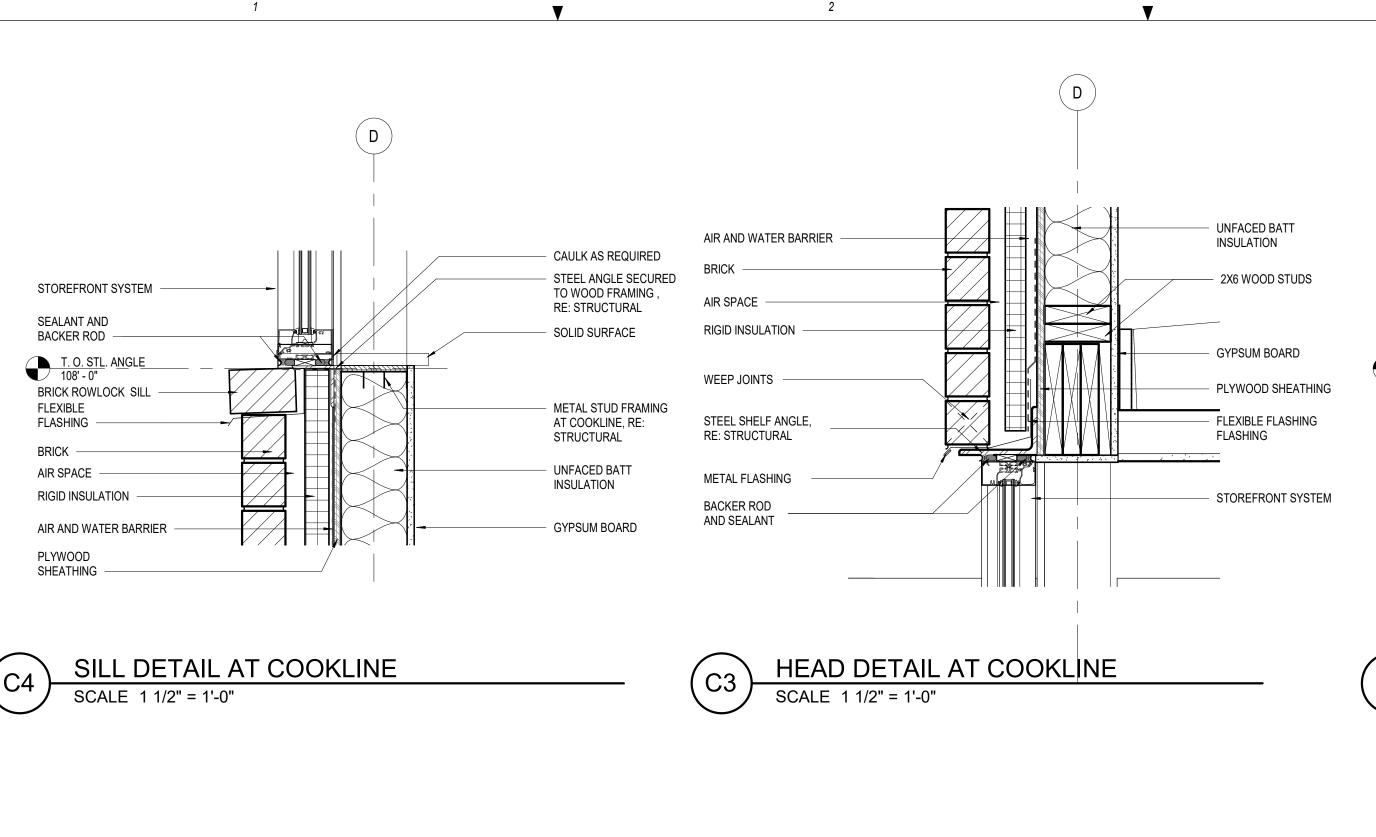
	REV	DESCRIPTION	DATE
-			

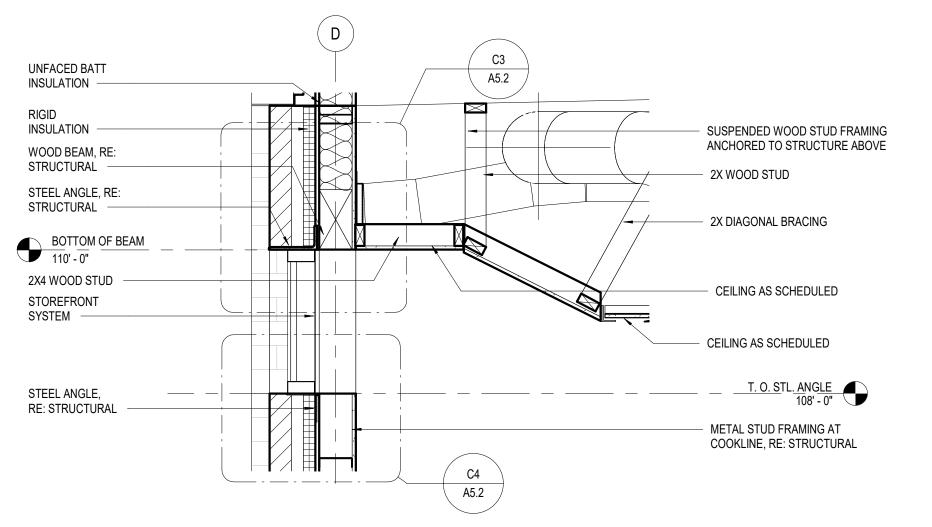
Project No.: 40497-21 Client Project No.:

Drawing Title:

**SECTION DETAILS** 

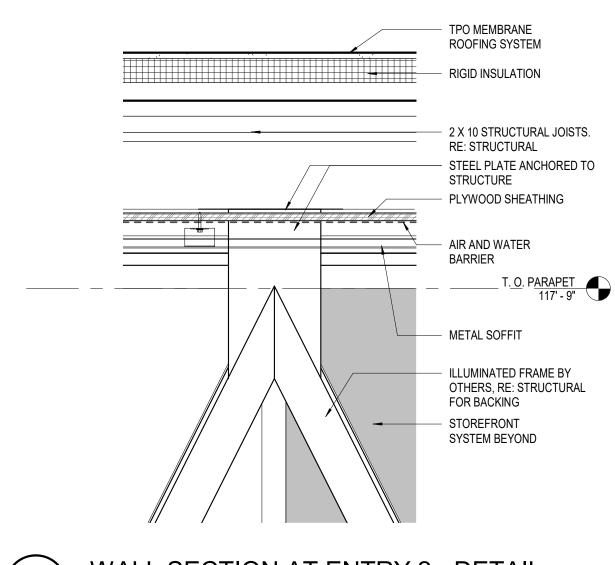
PERMIT SET 06.29.22 Date: Phase: Designed: WB Drawing No.: Drawn: BKN A5.1 Checked: AMF



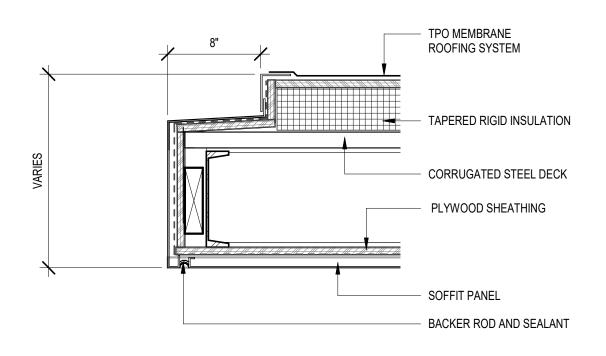


ENLARGED WALL SECTION AT COOKLINE WINDOW

SCALE 3/4" = 1'-0"



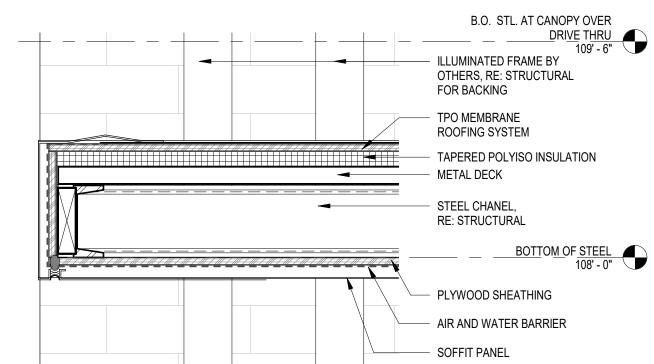
WALL SECTION AT ENTRY 2 - DETAIL



CANOPY DETAIL AT DRIVE THRU

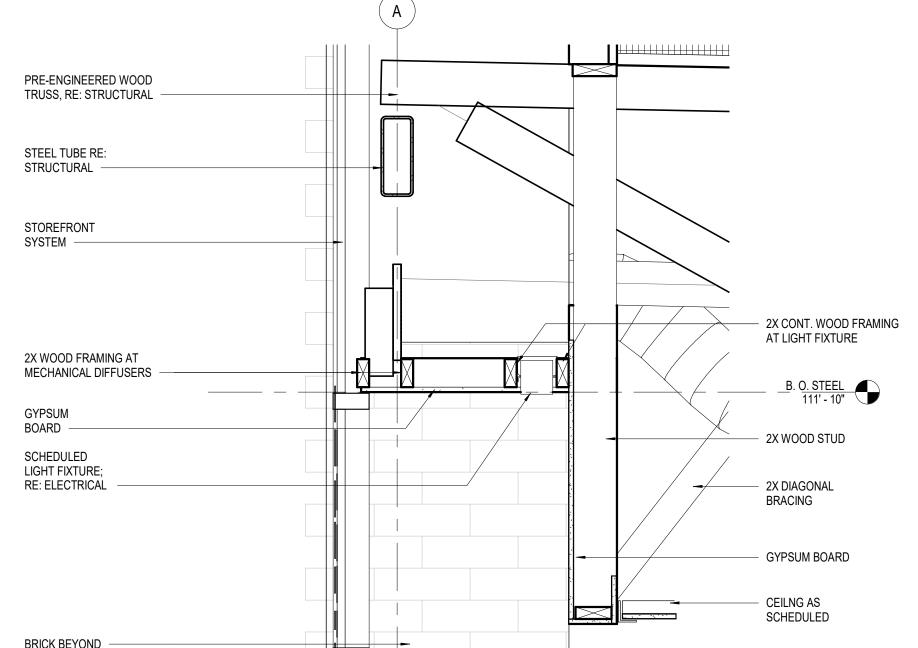
PARAPET AT DRIVE THRU CANOPY

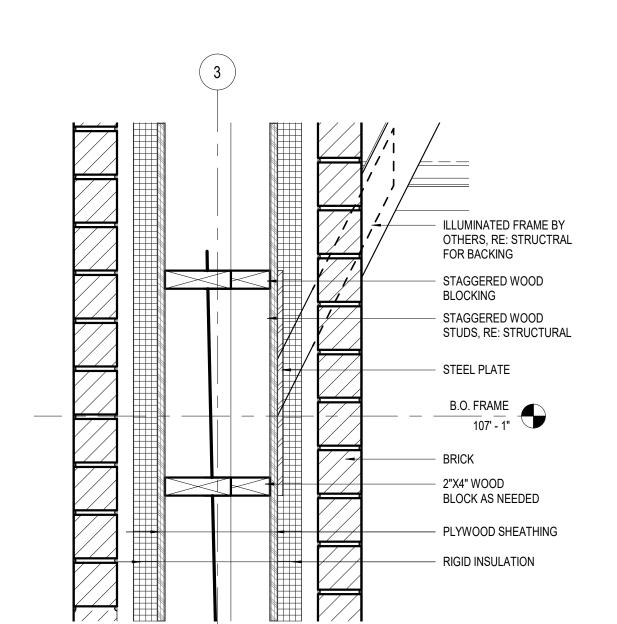
1 1/2" = 1'-0"



CANOPY DETAIL AT ENTRY PORTALS

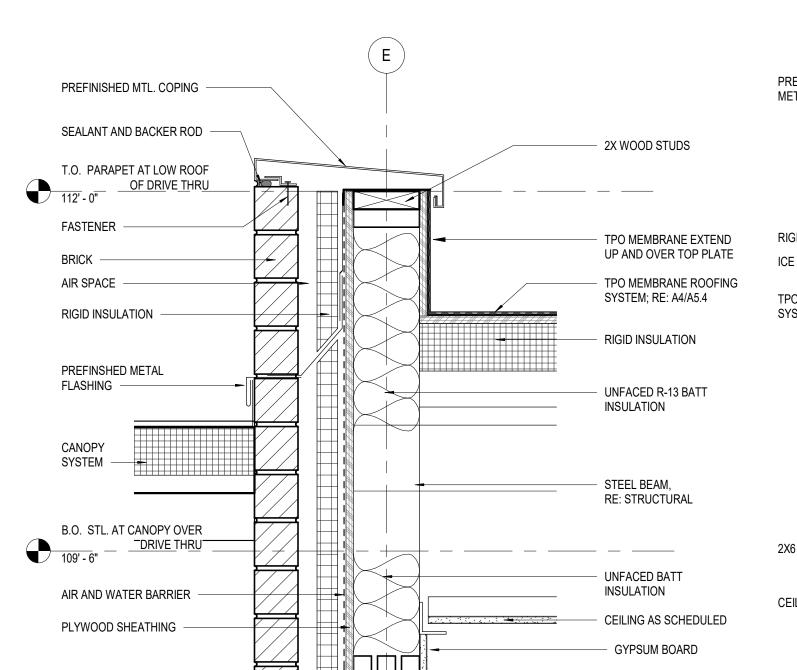
1 1/2" = 1'-0"

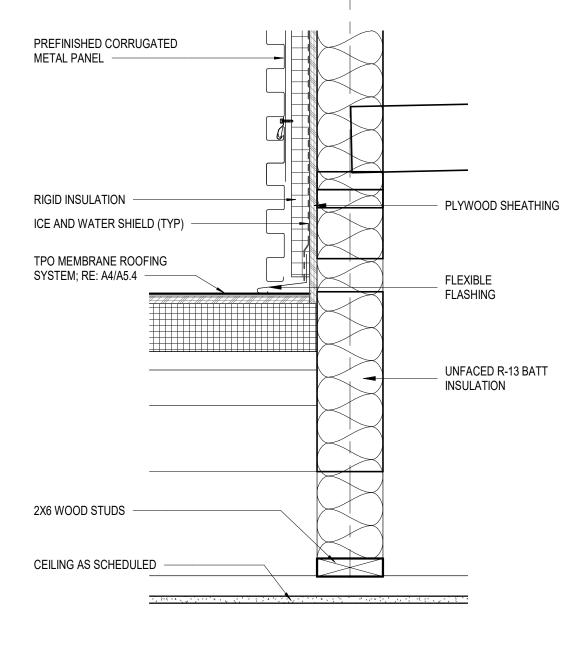


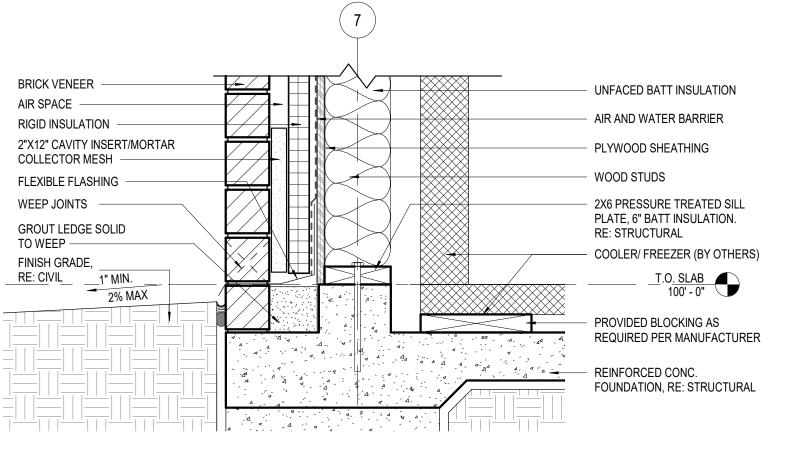




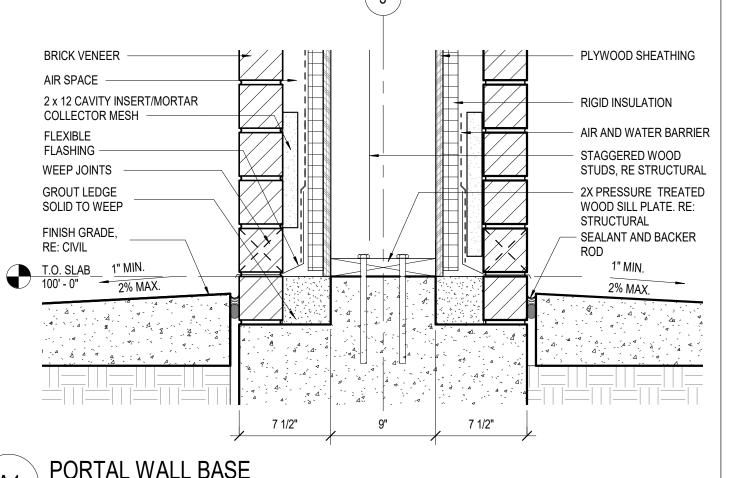








SECTION DETAIL AT SOFFIT



<sup>/</sup> 1 1/2" = 1'-0"



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AND WOOD 50

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ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528 EXP. DATE 12/31/2023

REV	DESCRIPTION	DATE

40497-21 Client Project No.:

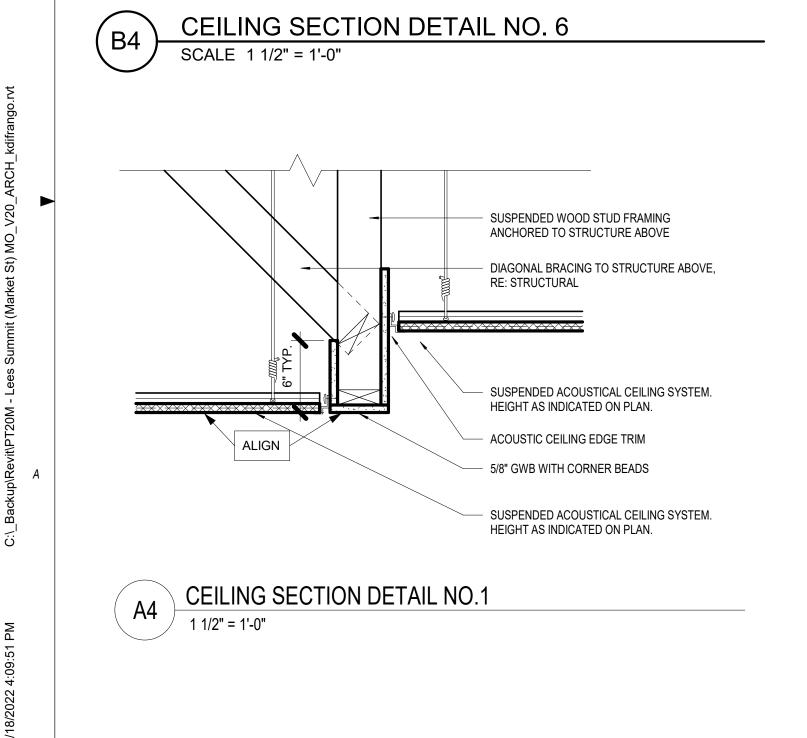
Drawing Title:

SECTION DETAILS

PERMIT SET Date: 06.29.22 Phase: Designed: WB Drawing No.: Drawn: BKN A5.2 Checked: AMF

METAL PANEL WALL AT ROOF

COOLER/FREEZER WALL BASE DETAIL SCALE 1 1/2" = 1'-0"



B.O. STL. AT CANOPY OVER

ALIGN

DRIVE THRU
109' - 6"

ACOUSTIC CEILING EDGE TRIM

SUSPENDED ACOUSTICAL

INDICATED ON PLAN.

CEILING SYSTEM. HEIGHT AS

SUSPENDED WOOD FRAMING ANCHORED TO STRUCTURE ABOVE

DOUBLE 2x4 HEADER WITH 5/8"

PLAYWOOD SPACER

5/8" GWB with CORNER

SPACKLED SMOOTH, TYP.

SECURE WALL BEYOND TO

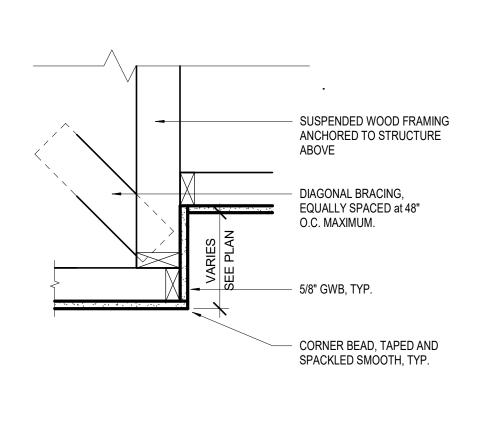
EQUIPEMENT IS DELIVERED. GC. TO COORDINATE

HEADER AFTER KITCHEN

BEADS TAPED AND

5/8" GWB, TYP.

DIAGONAL BRACING, EQUALLY SPACED at 48" O.C. MAXIMUM.





SUSPENDED WOOD STUD FRAMING

LATERALLY BRACED TO STRUCTURE

ABOVE, RE: STRUCTURAL

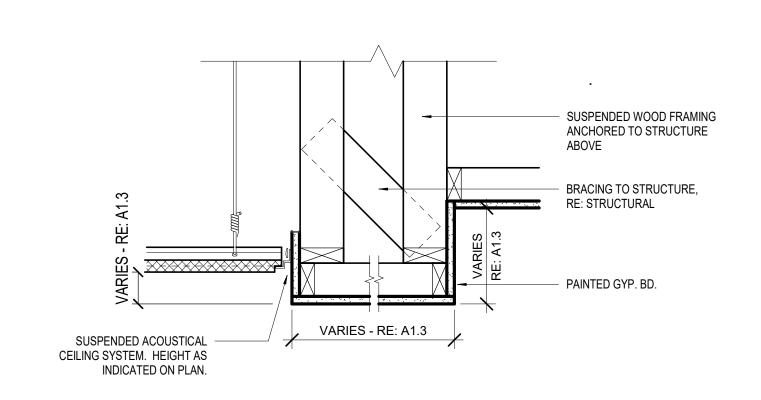
ACOUSTIC CEILING EDGE TRIM

HEIGHT AS INDICATED ON PLAN.

5/8" GWB WITH CORNER BEADS

SUSPENDED ACOUSTICAL CEILING SYSTEM.

ANCHORED TO STRUCTURE ABOVE



SUSPENDED WOOD FRAMING
ANCHORED TO STRUCTURE ABOVE

ACOUSTIC CEILING EDGE TRIM

HEIGHT AS INDICATED ON PLAN.

SPACKLED SMOOTH, TYP.

TERMINATE GRID @ ROOF HATCH OPENING3

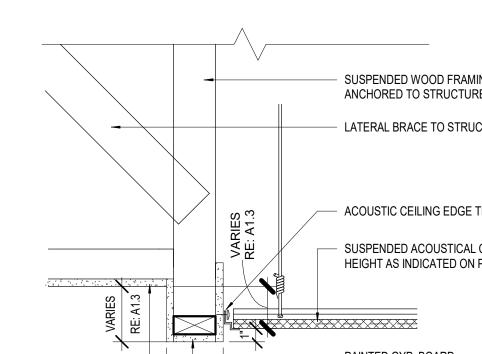
1 1/2" = 1'-0"

SUSPENDED ACOUSTICAL CEILING SYSTEM.

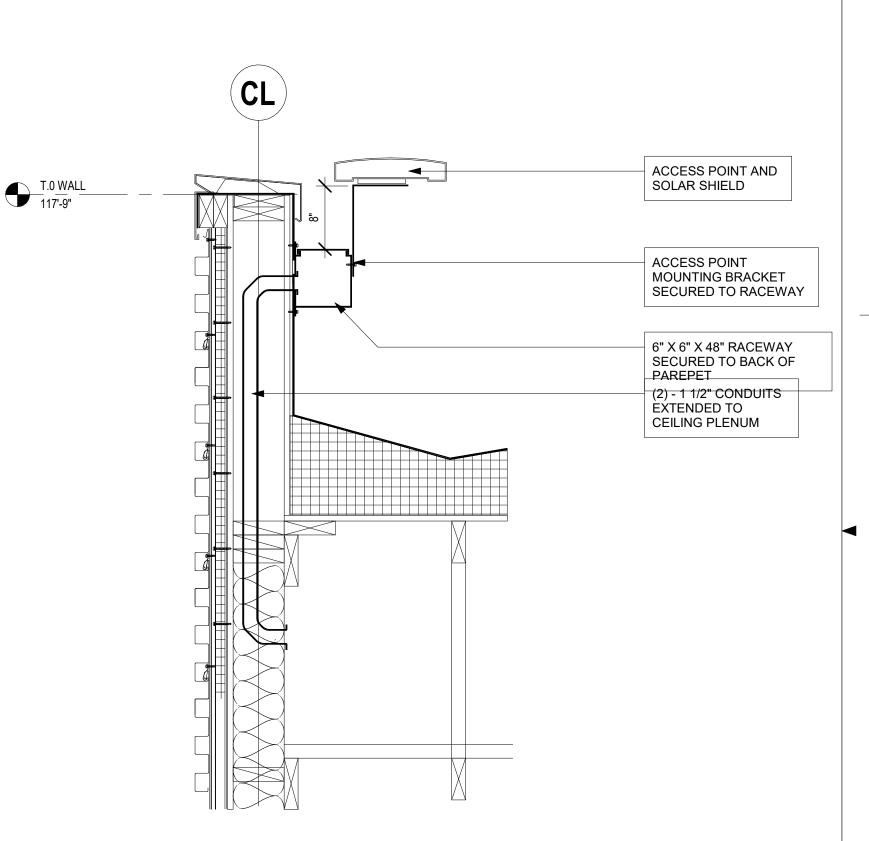
5/8" GWB WITH CORNER BEADS TAPED AND



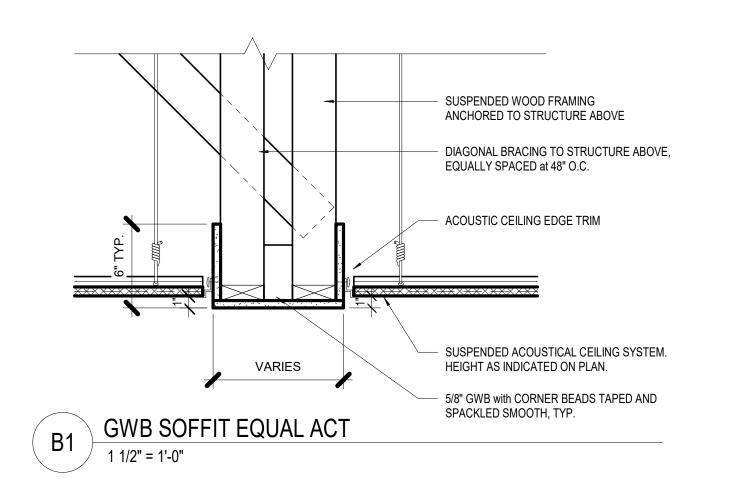


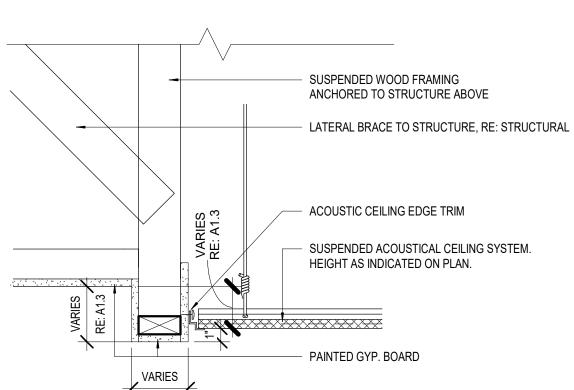
















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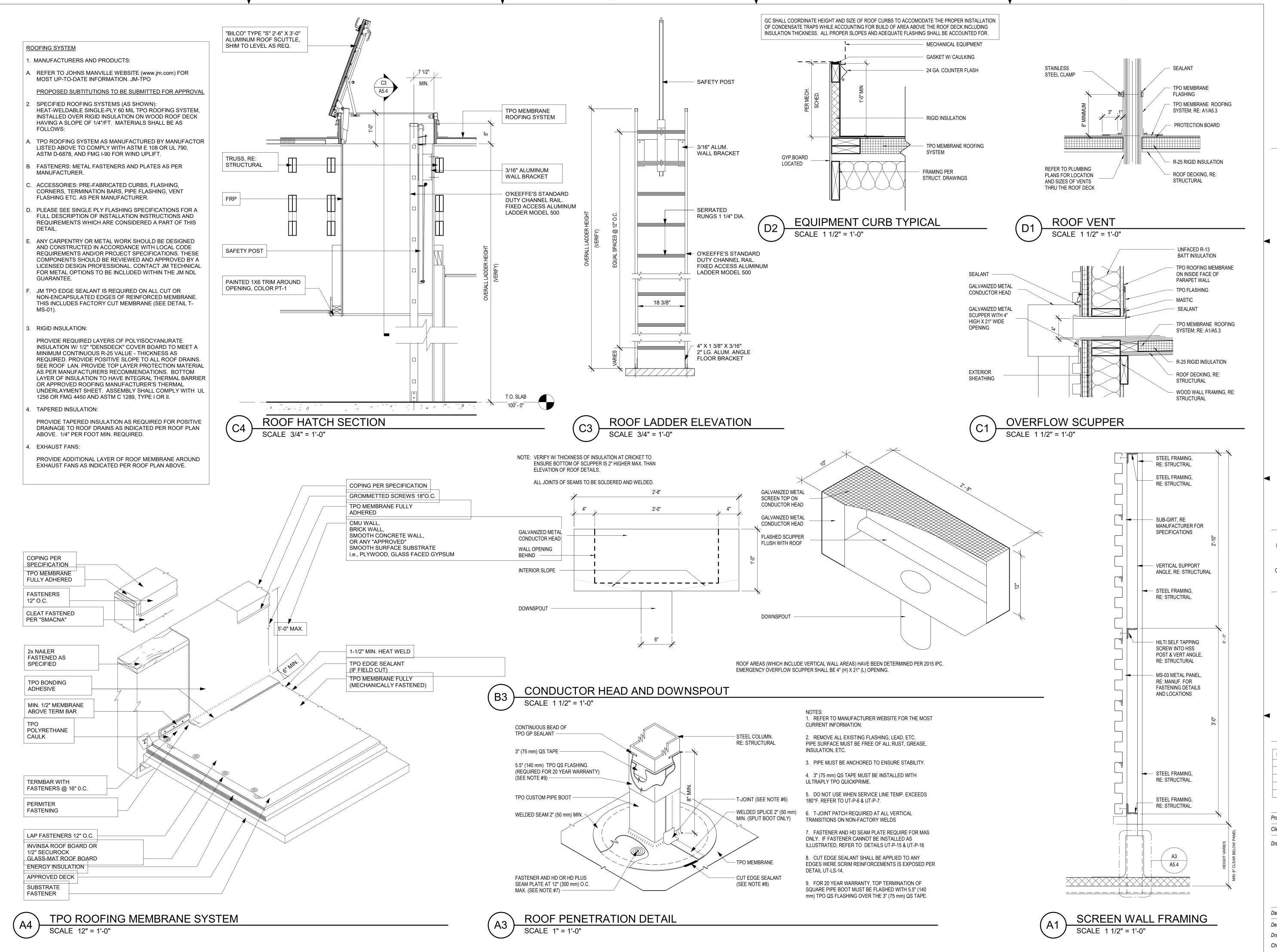
ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528 EXP. DATE 12/31/2023

Project No.: 40497-21 Client Project No.:

Drawing Title:

SECTION DETAILS

Date:	06.29.22	Phase:	PERMIT
Designed:	WB	Drawing No.:	
Drawn:	MDK	15	)
Checked:	AMF	J.CA	)



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ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528 EXP. DATE 12/31/2023

REV	DESCRIPTION	DATE

40497-21 Project No.: Client Project No.:

Drawing Title:

WALL AND ROOF TYPES

PERMIT SET 06.29.22 Date: Designed: WB Drawing No.. Drawn: BKN Checked: AMF

3 5/8" BRICK -

2" AIR SPACE

2" RIGID INSULATION -

EXTERIOR SHEATHING,

AIR AND WATER BARRIER -

2"X12" CAVITY INSERT/MORTAR

COLLECTOR MESH

2" RIGID INSULATION -

EXTERIOR SHEATHING,

RE: STRUCTURAL

FLEXIBLE FLASHING

3 5/8" BRICK -

2" AIR SPACE

FLASHING -

WEEP JOINTS

**GROUT SOLID** 

FOUNDATION

RE: STRUCTURAL

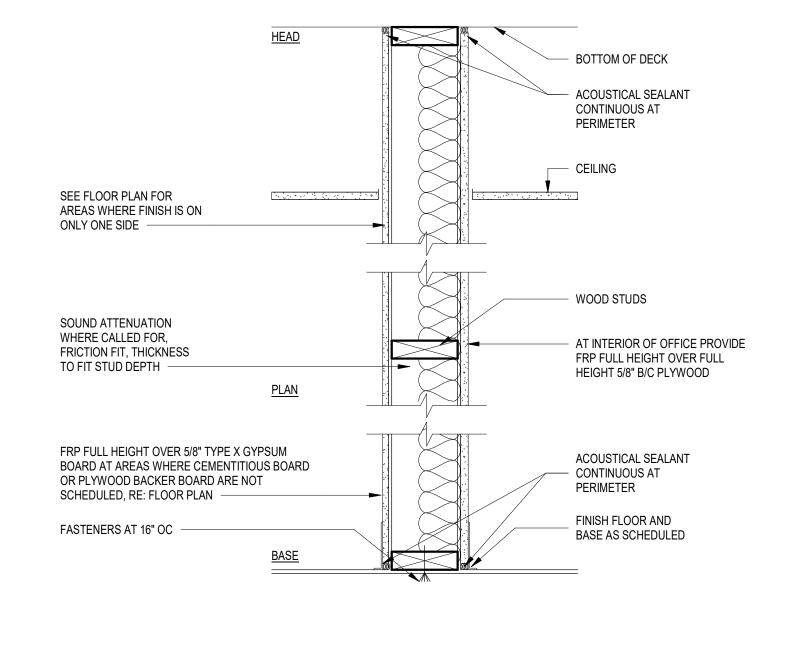
IND

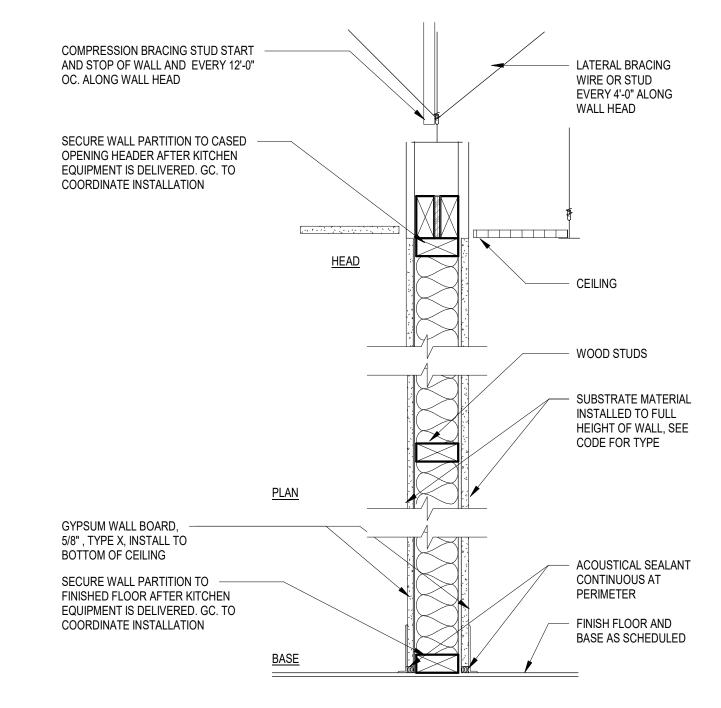
STUD SIZE

RE: STRUCTURAL

RE: STRUCTURAL -

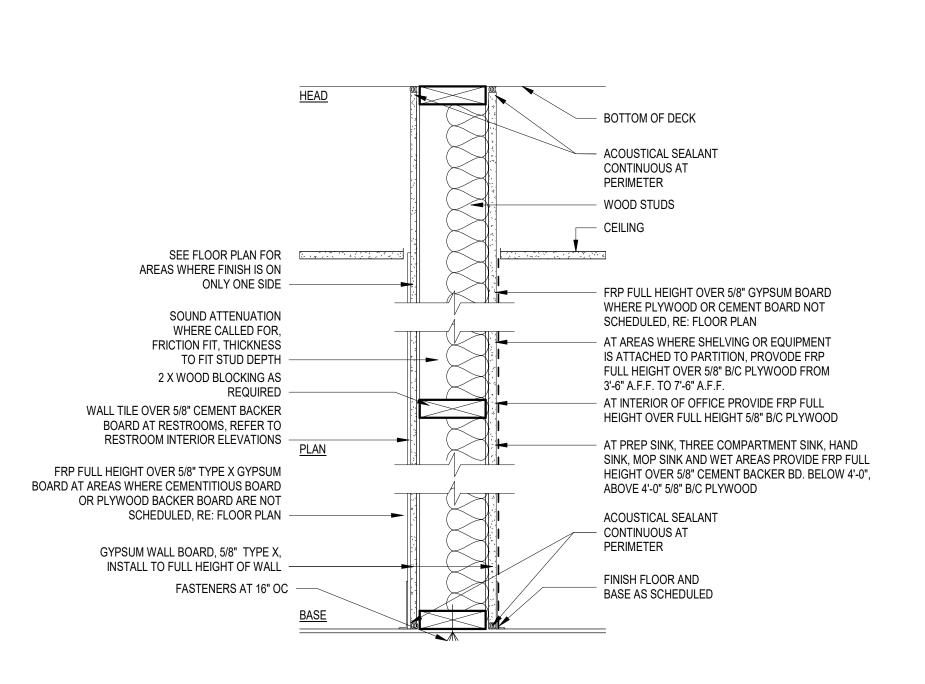






TYPE	E		
ATOR	IND	STUD SIZE	TOTAL WIDTH
INDIC/	2	2X6	6 3/4"
SIZE			

ТУРЕ	D		
ATOR	IND	STUD SIZE	TOTAL WIDTH
SIZE INDICATOR	2 2X6 6 3/4"		6 3/4"
SIZE			



WOOD BEAM, RE: STRUCTURAL FOR SIZING

R-13 BATT INSULATION

STRUCTURAL FOR SIZE

METAL STUDS, RE:

METAL STUDS, RE:

AND SPACING

STRUCTURAL FOR SIZE

CEMENTITIOUS BACKER BOARD

W/ STAINLESS STEEL WALL

RE: K1.1 FOR LOCATION

FINISH FLOOR AND

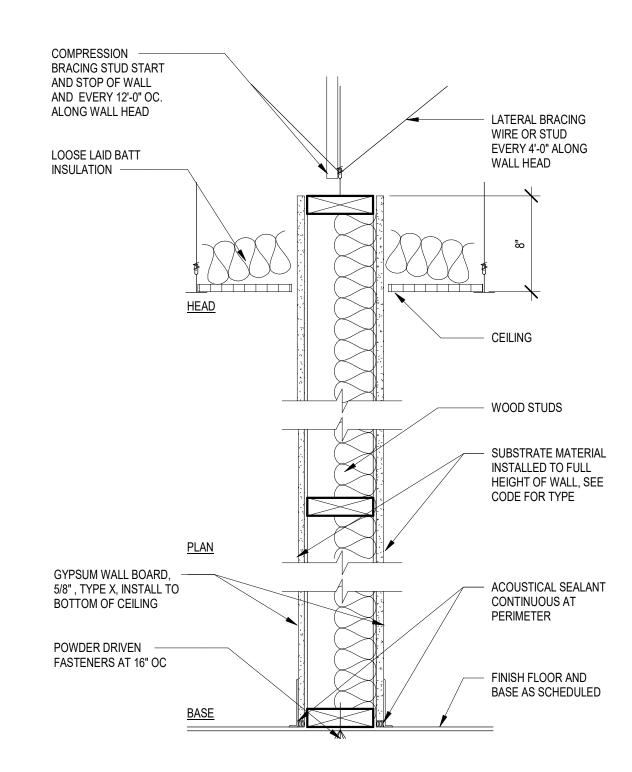
TOTAL WIDTH

BASE AS SCHEDULED

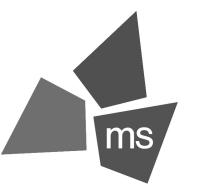
COVERING BEHIND COOKLINE,

AND SPACING

ТҮРЕ		В	
ATOR	IND	STUD SIZE	TOTAL WIDTH
SIZE INDICATOR	2	2X6	6 3/4"
SIZE			



TYPE	A		
ATOR	IND	STUD SIZE	TOTAL WIDTH
INDIC/	1	2X4	4 3/4"
SIZE			



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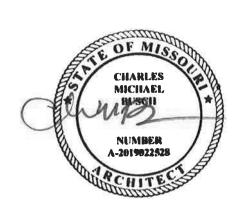
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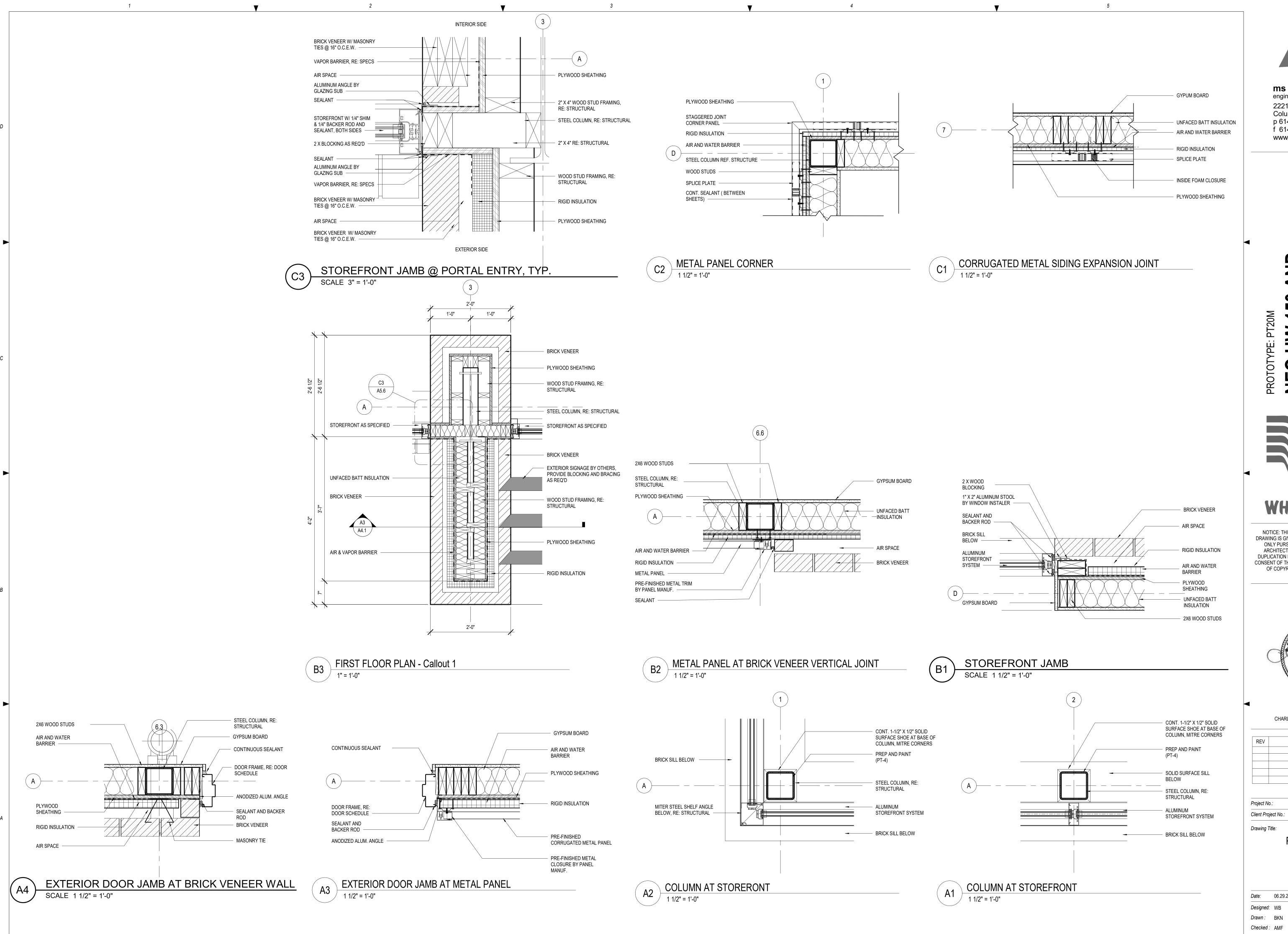
REV	DESCRIPTION	DATE

40497-21 Project No.: Client Project No.:

Drawing Title:

PARTITION TYPES

Date:	06.29.22	Phase:	PERMIT SE
Designed:	WB	Drawing No.:	
Drawn:	BKN	<b>\ F F</b>	-
Checked:	AMF	A5.5	)





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REV	DESCRIPTION	DATE

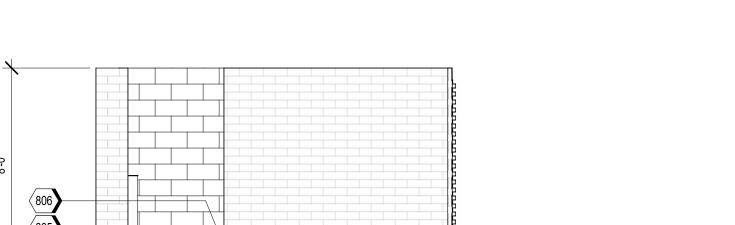
40497-21

PLAN DETAILS

PERMIT SET Date: 06.29.22 Phase: Drawing No.: A5.6

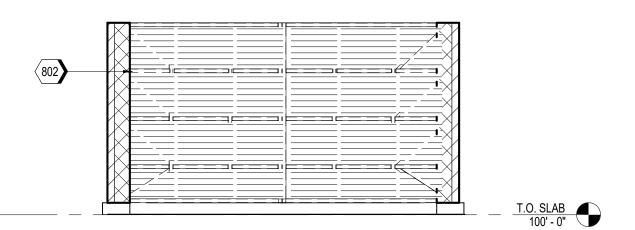
DUMPSTER - ELEVATION @ EAST

SCALE 1/4" = 1'-0"



DUMPSTER - ELEVATION @ SIDE ENTRY

SCALE 1/4" = 1'-0"



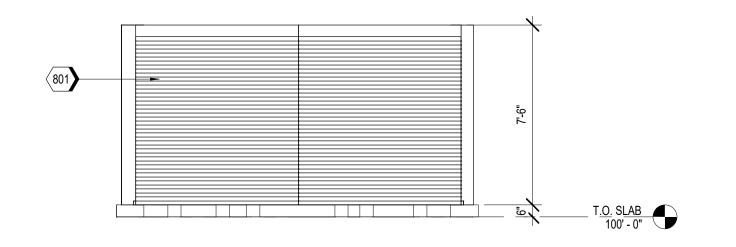
DUMPSTER - GATE INSIDE FACE SCALE 1/4" = 1'-0"



801 PRE-FINISHED CORRUGATED METAL PANEL (MP-01)
802 STRUCTURAL STEEL, RE: STRUCTURAL
804 PIPE BOLLARDS: IDEAL SHEILD: URBAN BRONZE, PANTONE 2336 XGC. RE D3/S5.1
805 FINISHED PAVEMENT, RE: CIVIL
806 CONCRETE CURB, RE: STRUCTURAL
807 PAINTED CMU

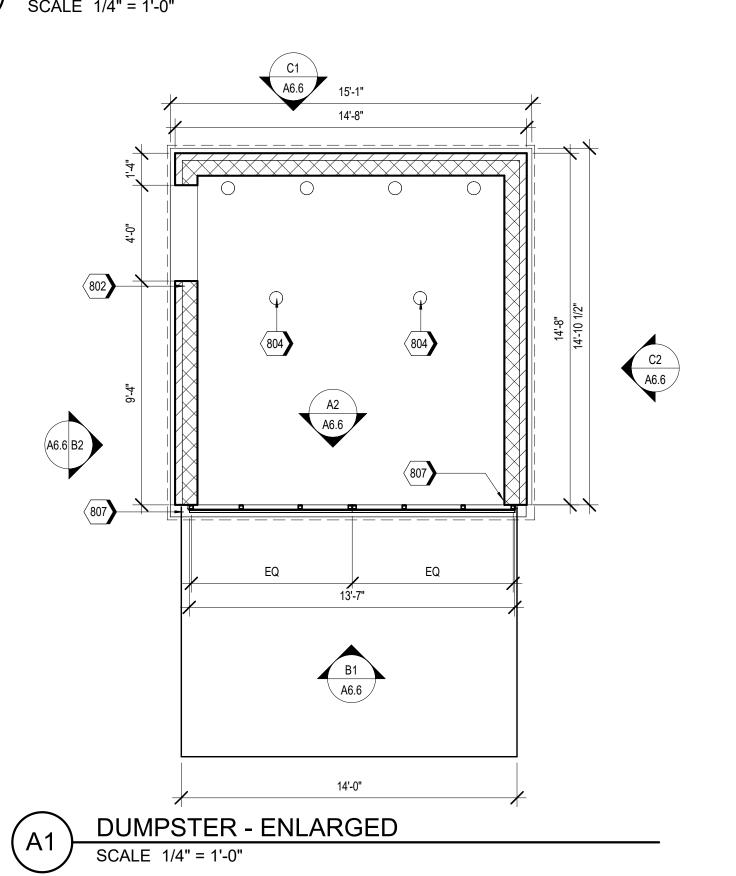
T.O. SLAB 100' - 0"

DUMPSTER - ELEVATION @ REAR SCALE 1/4" = 1'-0"



DUMPSTER - ELEVATION @ GATE

SCALE 1/4" = 1'-0"



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150 AND /OOD ST

HOLLYWOOD NEQ HW

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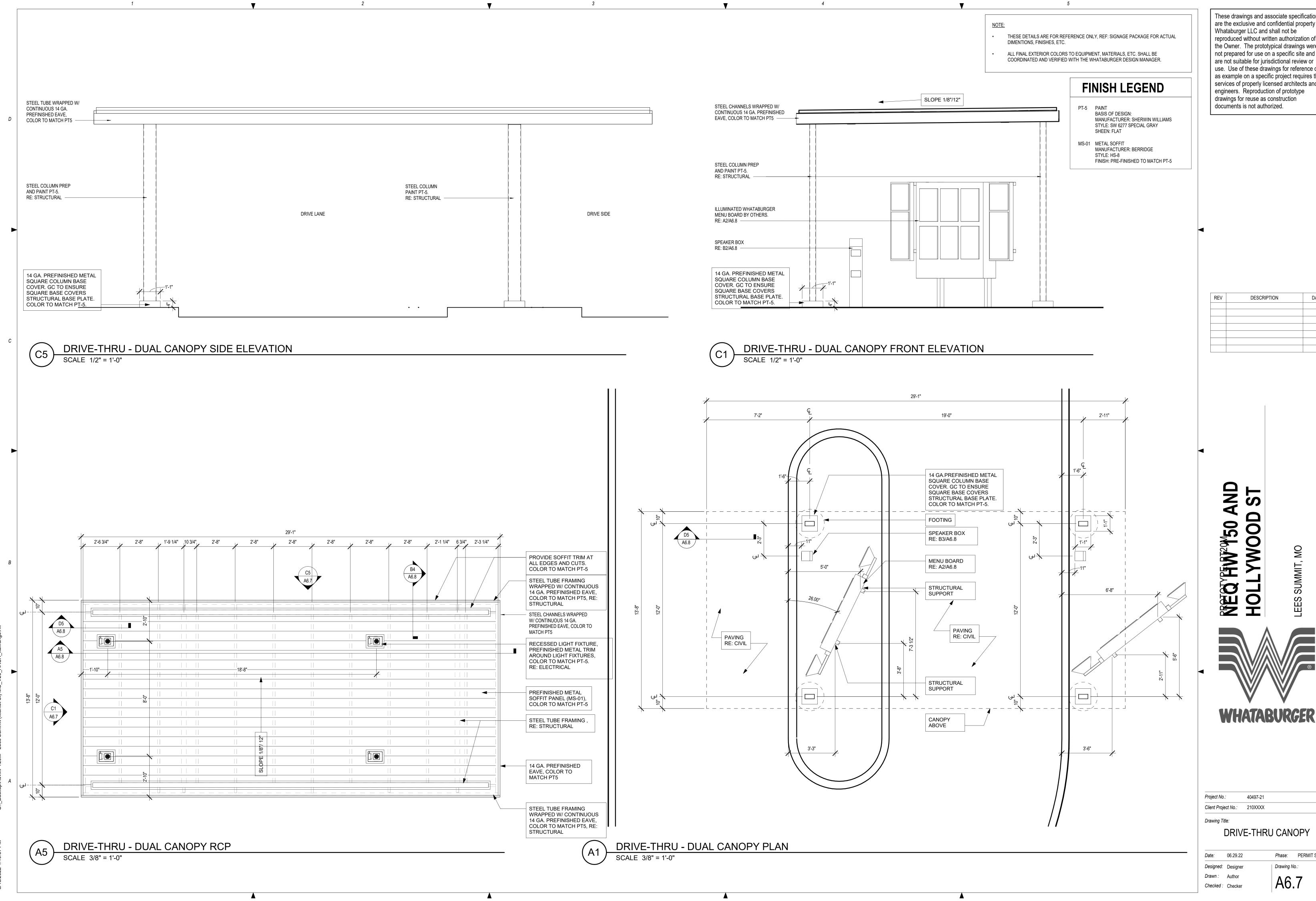
REV	DESCRIPTION	DATE

40497-21 Project No.: Client Project No.:

Drawing Title:

DUMPSTER

Date:	06.29.22	Phase: PERMIT SET
Designed:	WB	Drawing No.:
Drawn :	BKN	<b>ACC</b>
Checked:	AMF	A6.6



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REV	DESCRIPTION	DATE

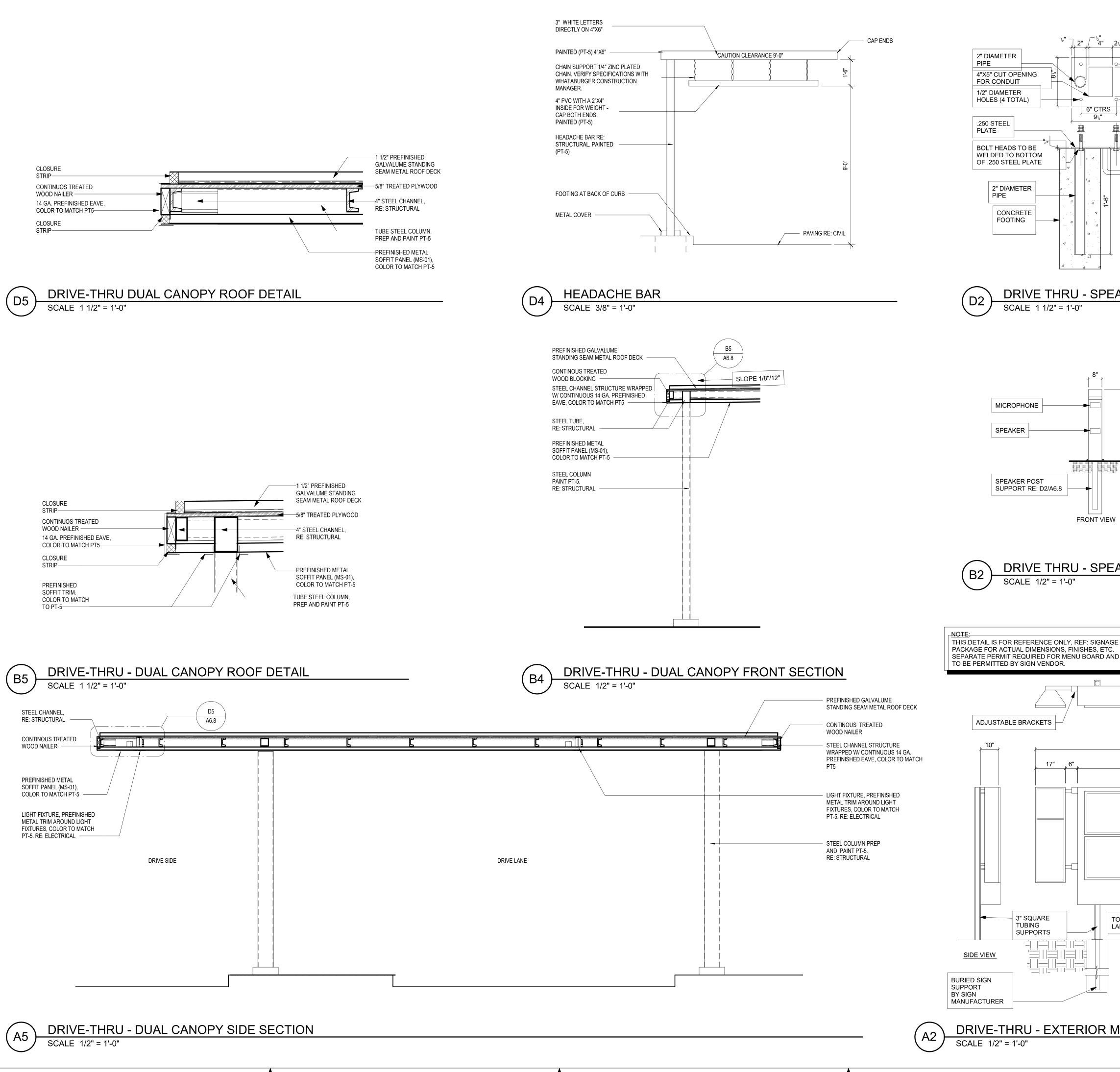
HOLLYWOOD

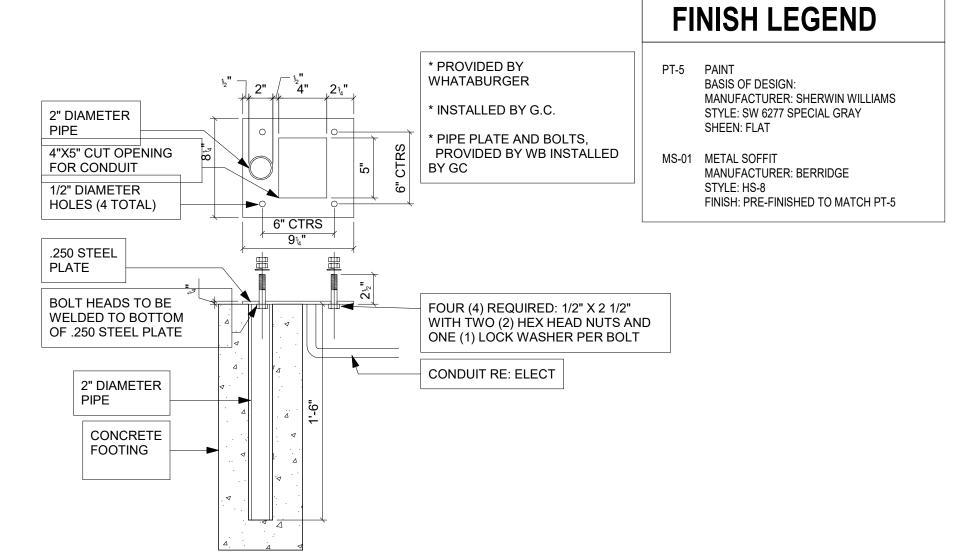
40497-21 Client Project No.: 210XXXX

DRIVE-THRU CANOPY

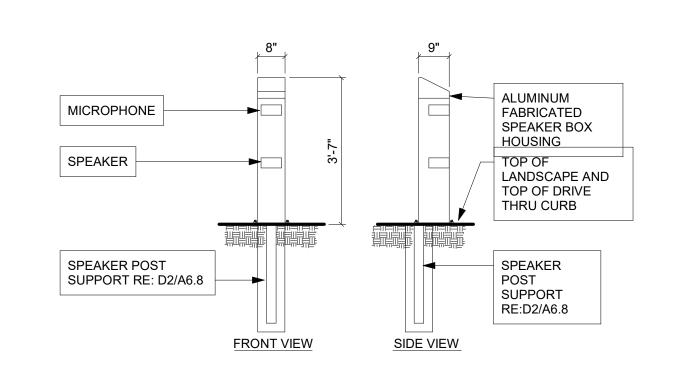
Phase: PERMIT SET Drawing No.:

A6.7

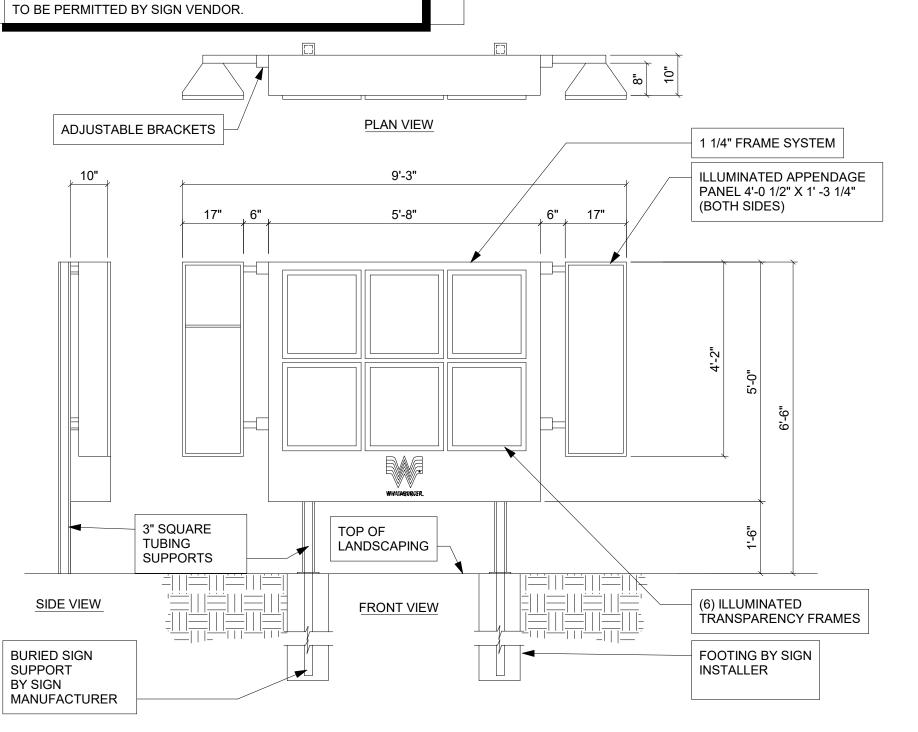




DRIVE THRU - SPEAKER PEDESTAL DETAIL

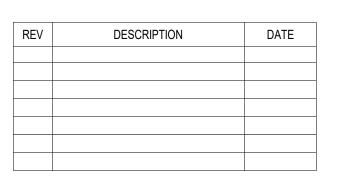


DRIVE THRU - SPEAKER BOX DETAIL



DRIVE-THRU - EXTERIOR MENU BOARD ELEVATION SCALE 1/2" = 1'-0"

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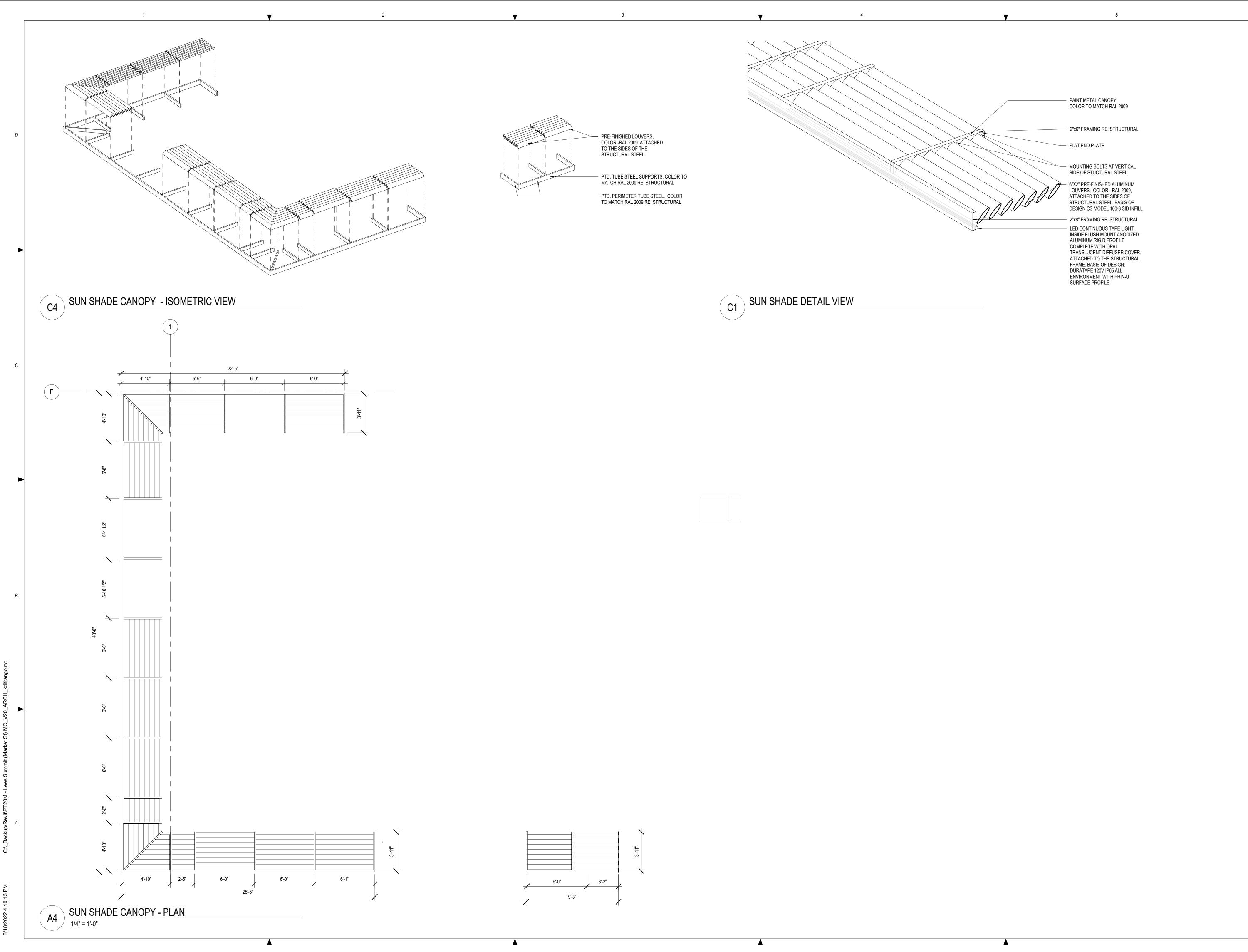




Project No.: 40497-21 Client Project No.: 210XXXX

Drawing Title: DRIVE-THRU CANOPY

Phase: PERMIT SET Date: 06.29.22 Designed: Designer Drawing No.: Drawn: Author Checked: Checker





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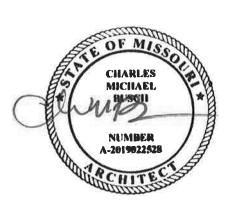
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REV	DESCRIPTION	DATE

40497-21 Project No.: Client Project No.:

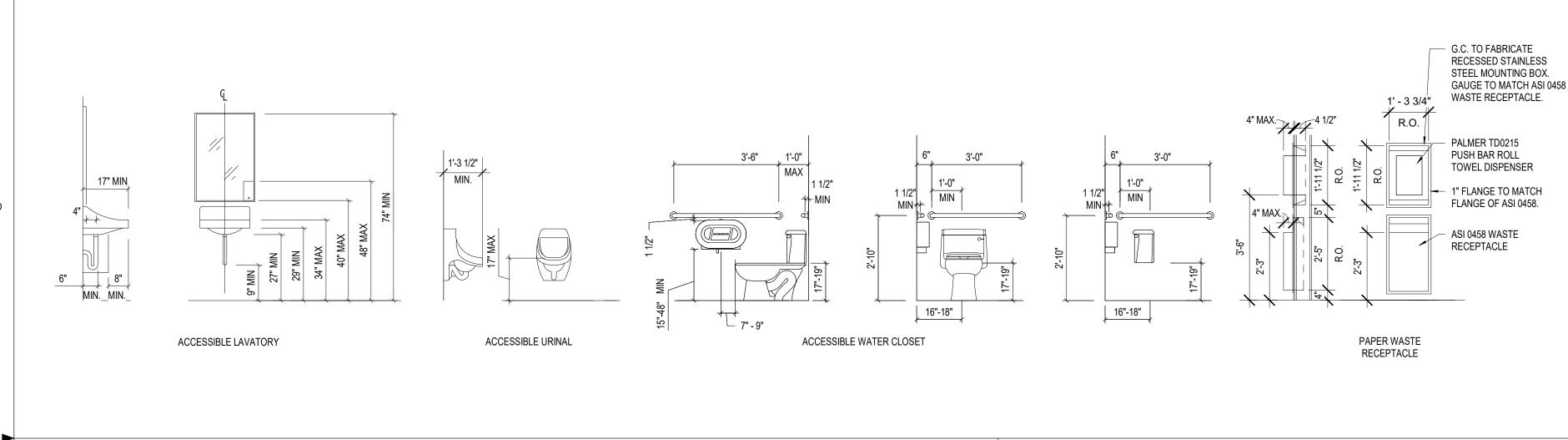
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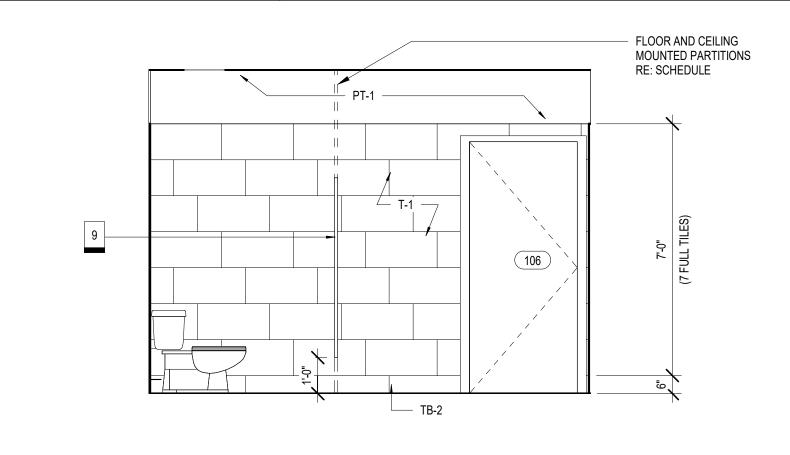
SUN SHADE CANOPY

Date:	06.29.22	Phase:	PERMIT SET
Designed:	WB	Drawing No.:	
Drawn :	BKN	<b>AG</b> (	)

Checked: AMF

A6.9





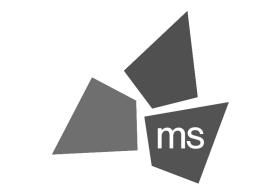
SOUTH ELEVATION - WOMEN
3/8" = 1'-0"

DOOR

SLOPED

FLAT

THRESHOLD



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## **150 AND** YWOOD. $\mathbf{x}$ HOLL NEQ

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NUMBER A-2019022528

DESCRIPTION	
	DATE

Project No.: 40497-21 Client Project No.:

Drawing Title:

ENLARGED PLAN AND INTERIOR ELEVATIONS

ate:	06.29.22	Phase:	PERMIT SET
esigned:	WB	Drawing No.:	
rawn :	BKN	14 9	
hecked :	AMF	11.2	



FLOOR AND CEILING

MOUNTED

B2

PHENOLIC CORE

PARTITIONS

2'-5 1/2"

4'-5 1/2"

**ENLARGED PLAN - RESTROOM** 

12'-10"

**WOMEN** 106

CLEAR

006F

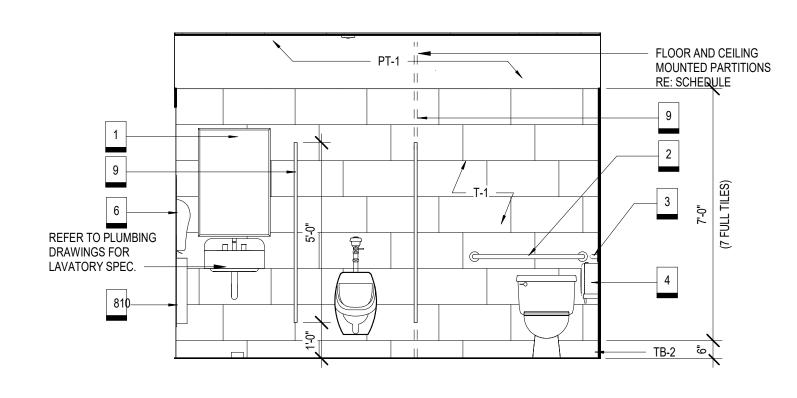
9'-10 1/2"

5'-2"

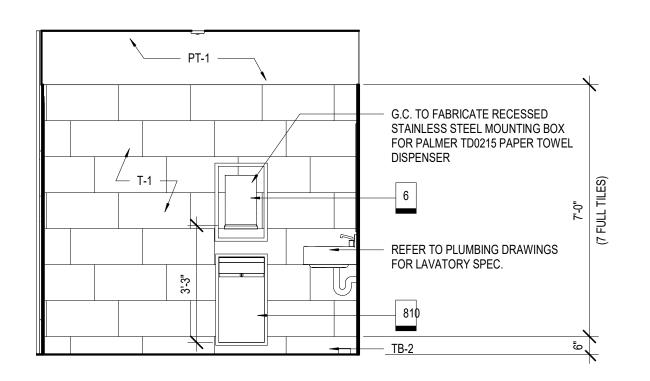
11.2

11'-9 1/2"

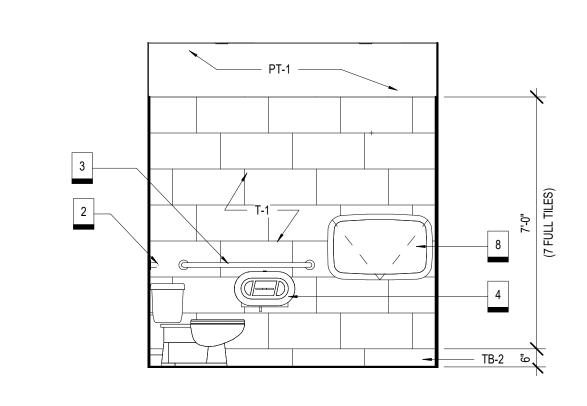
AND URINAL PARTITIONS



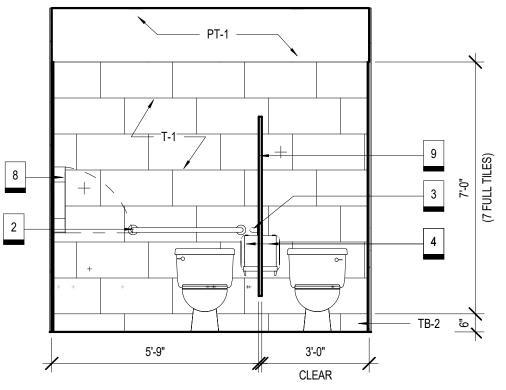




WEST ELEVATION - WOMEN



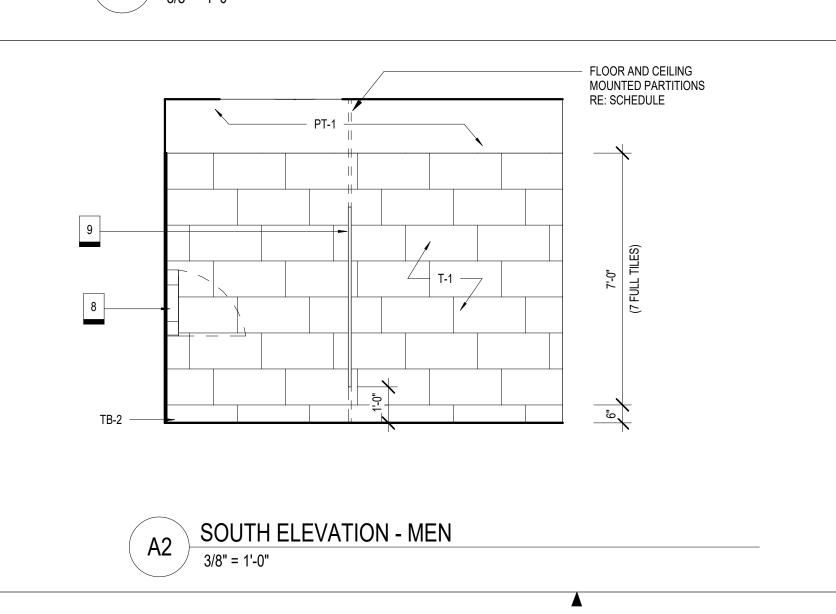


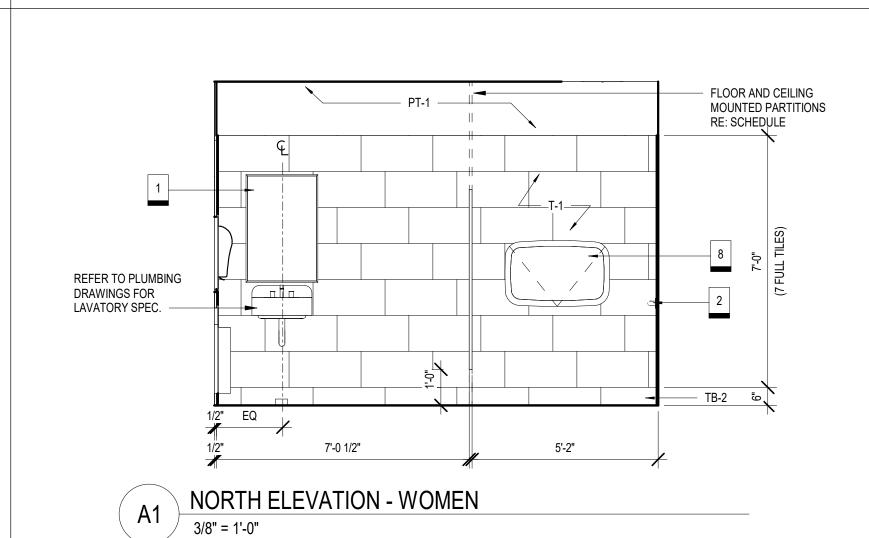


D1	EAST ELEVATION - WOMEN
БІ	3/8" = 1'-0"

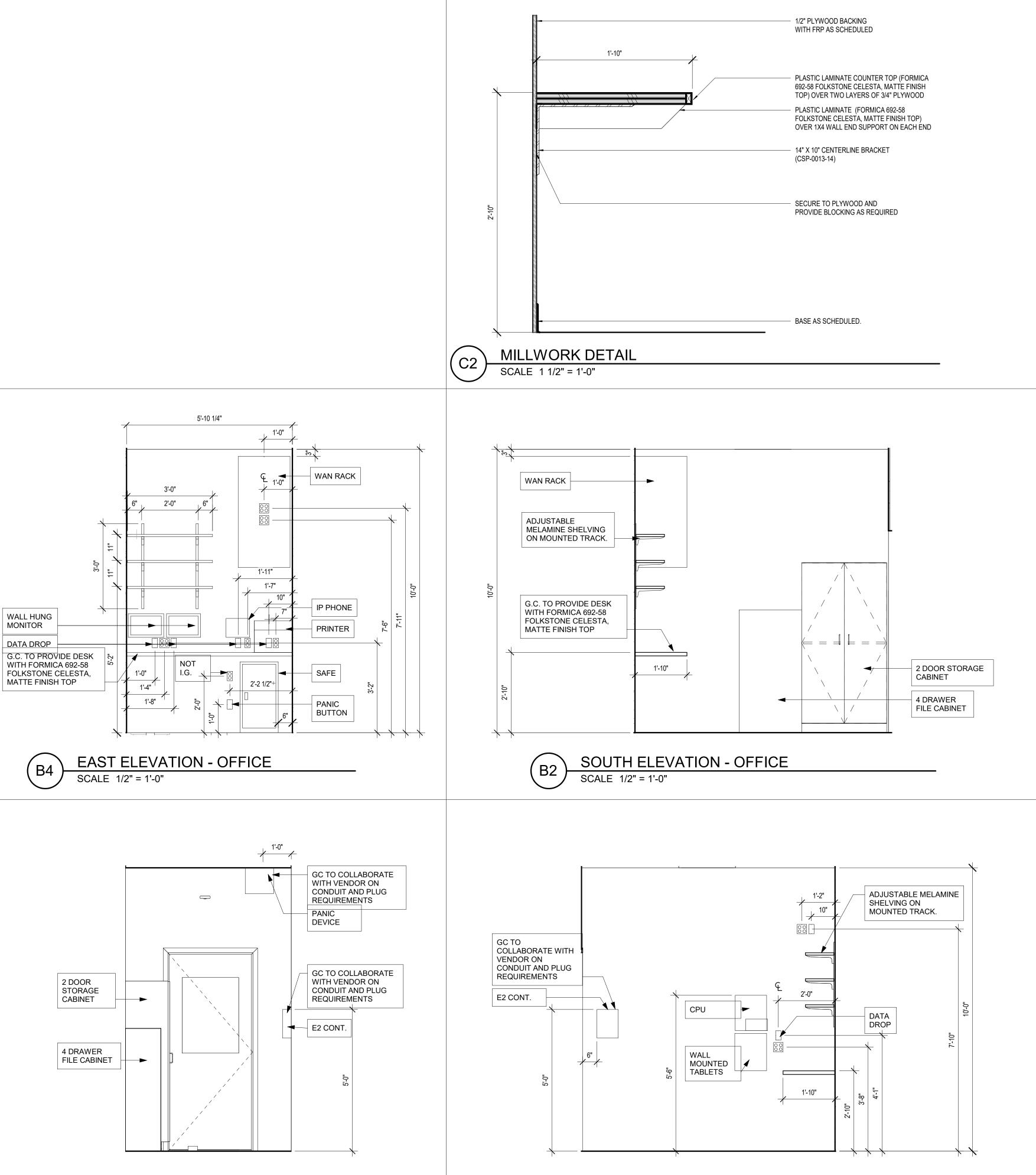


CONTRACTOR PROVIDED, CONTRACTOR INSTALLED





5'-1"





Description

### **OFFICE NOTES**

Vendor Part # Provided by QTY

ALL OUTLETS TO BE ISOLATED GROUND (I.G.), UNLESS NOTED OTHERWISE.

ALL OFFICE WALLS TO HAVE 1/2" PLYWOOD

BACKING WITH FRP FINISH

G.C. TO PROVIDE WOOD BLOCKING AT SHELVING AND ACCESSORIES, AS REQUIRED .

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AND 50 0

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	REV	DESCRIPTION	DATE

40497-21 Project No.: Client Project No.:

Drawing Title:

ENLARGED PLAN AND INTERIOR ELEVATIONS

Date:	06.29.22	Phase:	PERMIT S
Designed:	Designer	Drawing No.:	
Drawn :	Author	14 9	
Checked:	Checker	11.3	

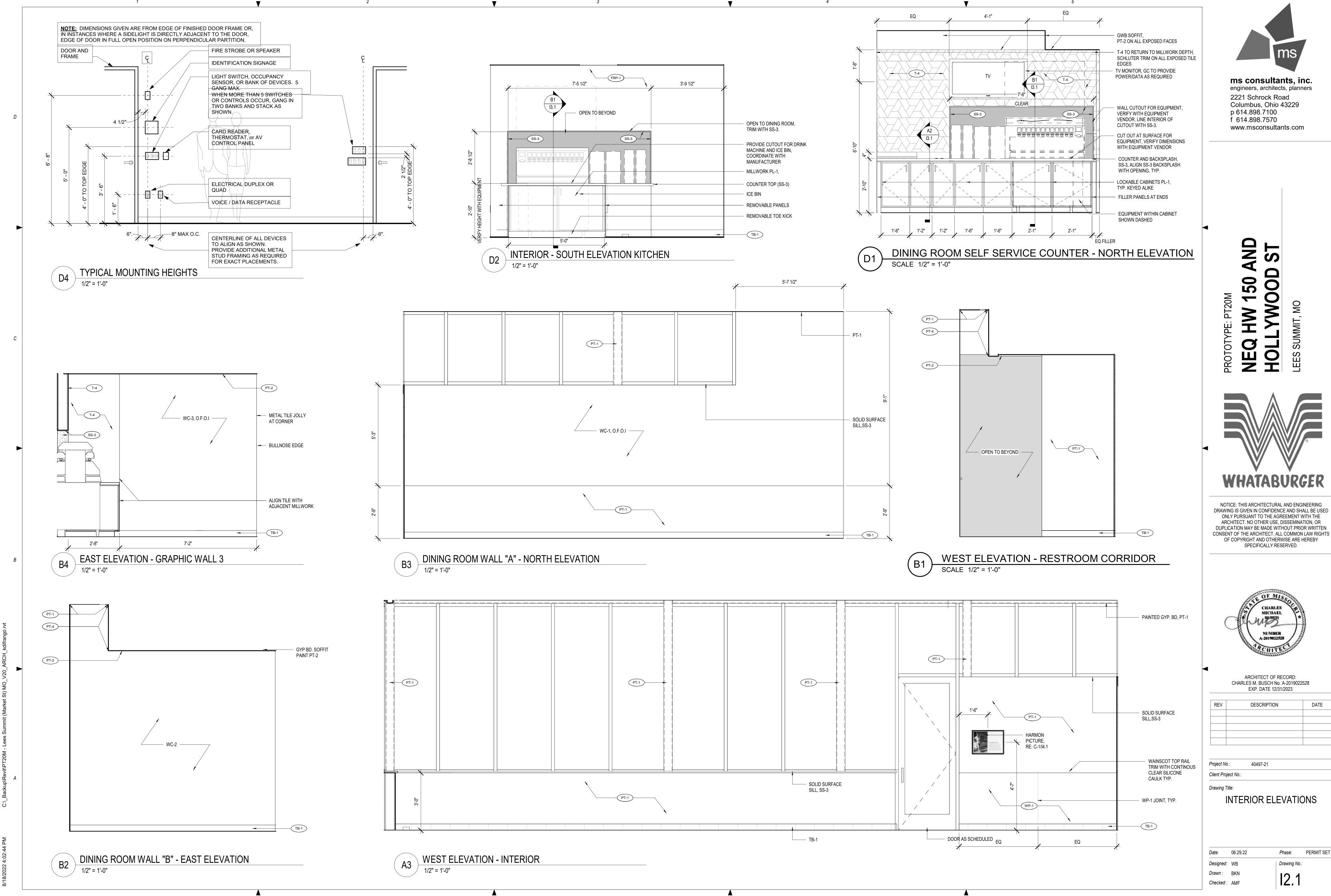
11.0

**WEST ELEVATION - OFFICE** 

NORTH ELEVATION - OFFICE SCALE 1/2" = 1'-0"

5'-3 1/8" 3'-8 1/4" E2 11.3 112 112 GC TO INSTALL CENTERLINE BRACKETS, TYP.

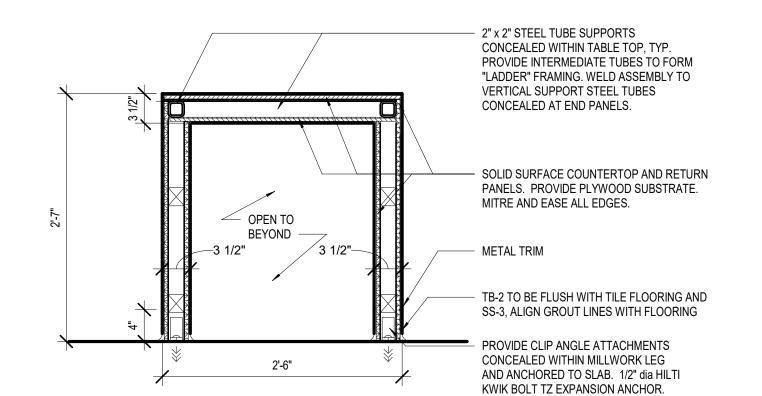
**ENLARGED PLAN - OFFICE** 



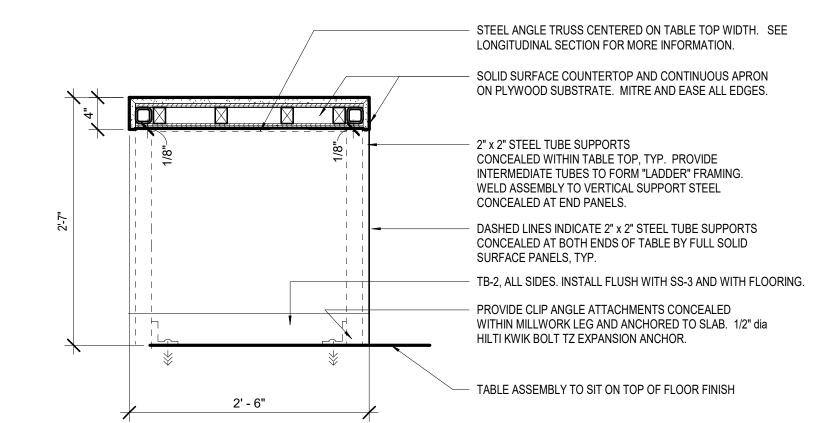
REV	DESCRIPTION	DATE



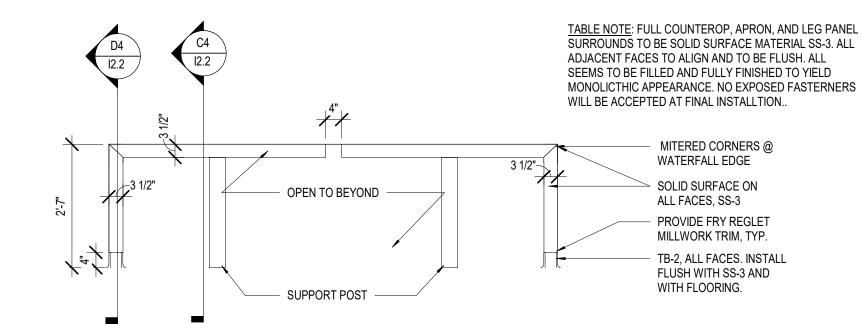


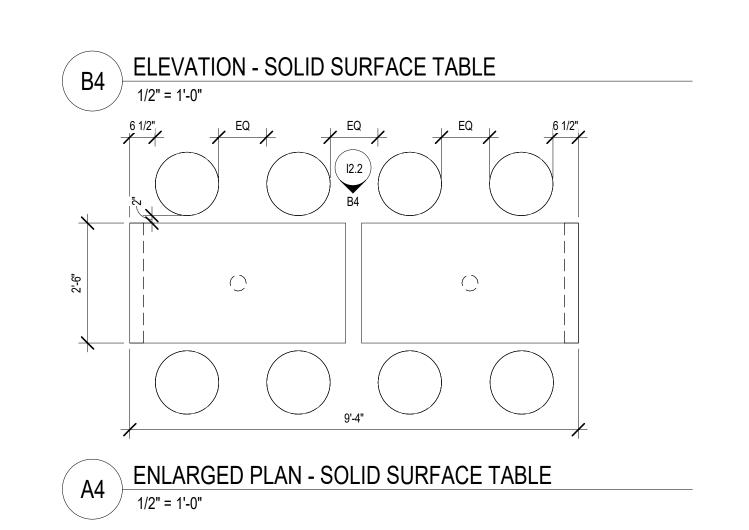


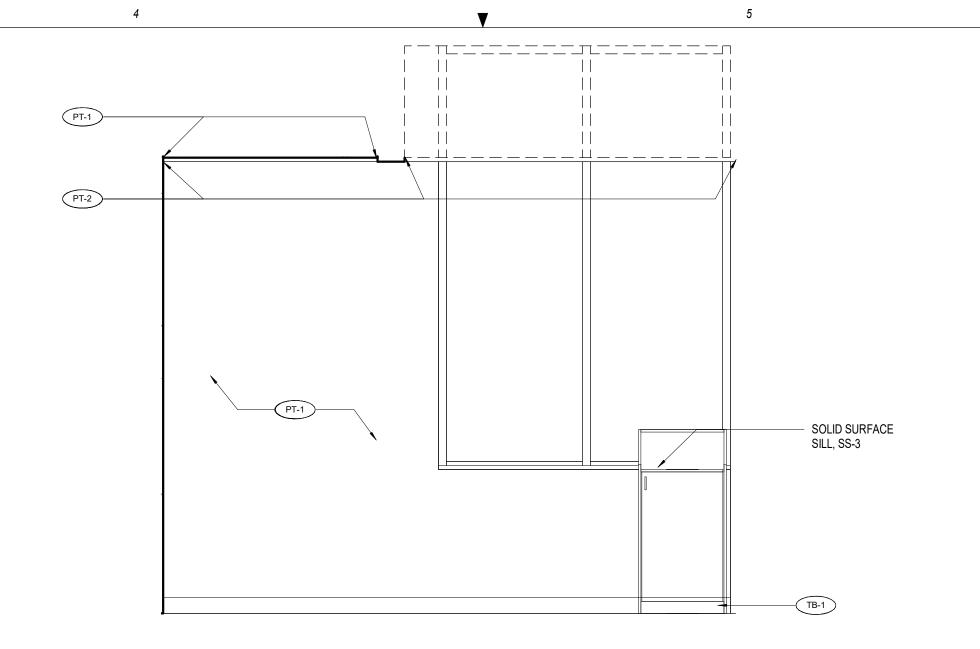




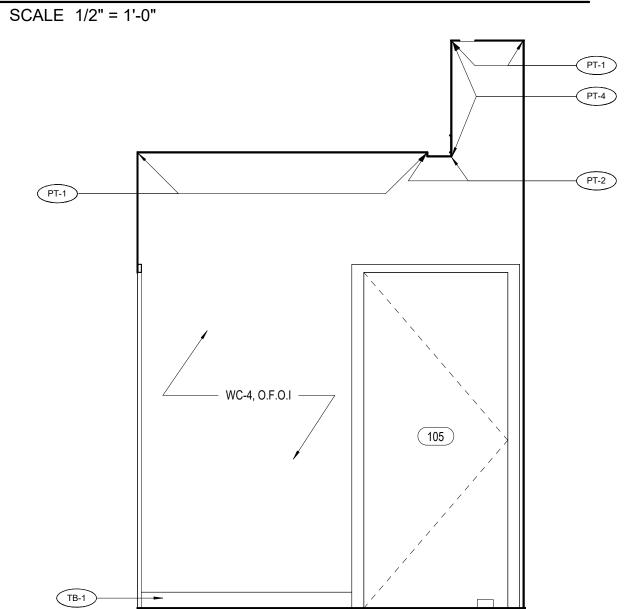




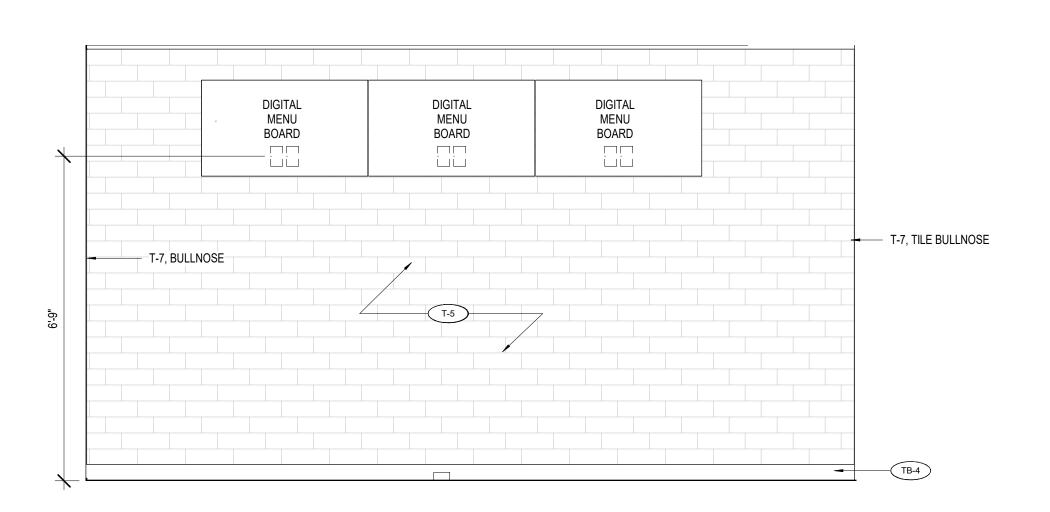








### EAST ELEVATION - RESTROOM CORRIDOR SCALE 1/2" = 1'-0"



EAST ELEVATION - MENU BOARD



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AND YWOOD 150

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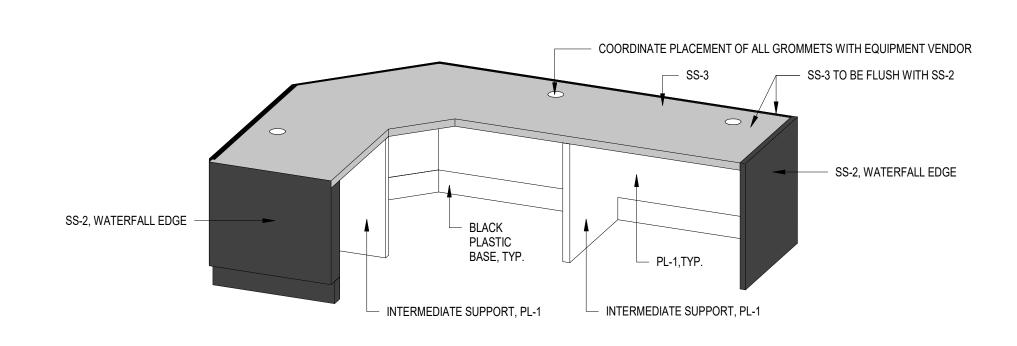
REV	DESCRIPTION	DATE

Project No.: 40497-21 Client Project No.:

Drawing Title:

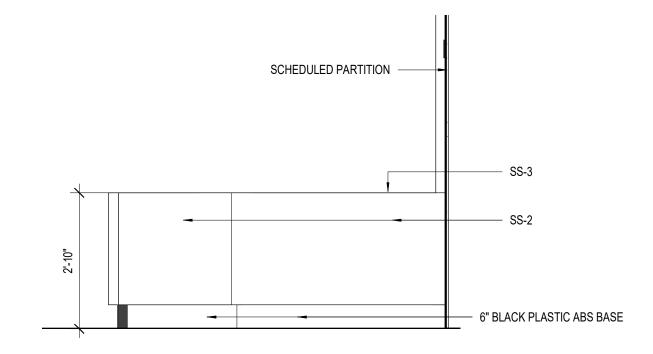
INTERIOR ELEVATIONS

Date:	06.29.22	Phase:	PERMIT SE
Designed:	WB	Drawing No.:	
Drawn:	BKN	12 2	
Checked:	AMF	IZ.Z	



ISOMETRIC VIEW - SERVICE COUNTER BACK

# D2 ISOMETRIC VIEW - SERVICE COUNTER



C3 SERVICE COUNTER SIDE VIEW 2

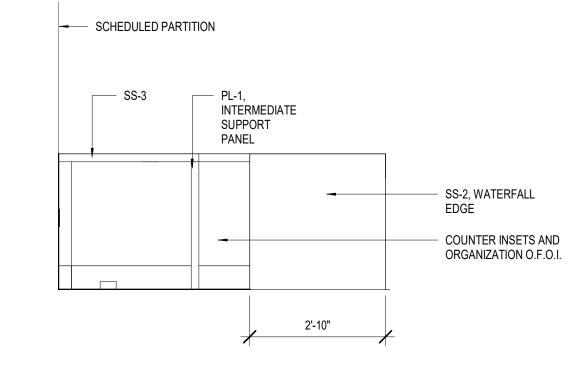
(END PANEL BEYOND)

2'-10"

CASH WRAP ENCLOSURE

1 1/2" = 1'-0"

PL-1 —



C2 SERVICE COUNTER SIDE VIEW 1

COORDINATE PLACEMENT OF ALL GROMMETS WITH

PROVIDE CONTINUOUS 2" x 2" ALUMINUM ANGLE FOR

SCHEDULED SOLID SURFACE, FINISH ALL EXPOSED EDGED

SCHEDULED SOLID SURFACE, FINISH ALL EXPOSED EDGED

PROVIDE CUTOUTS TO COORDINATE WITH RECEPTACLE AND DATA JUNCTION BOX LOCATIONS. CLUSTER RECEPTACLES

TIGHT, 4" ON CENTER. RECEPTACLE FACE PLATES TO BE MOUNTED FLUSH WITH MILLWORK INTERIOR. DEVICES AND FACE PLATES TO BE WHITE. COORDINATE OUTLET LOCATIONS WITH

PROVIDE CUT OUTS AT INTERNAL PLYWOOD RIBS TO

BLACK FRY REGLET MILLWORK TRIM TO PROTECT EDGE

**EQUIPMENT VENDOR** 

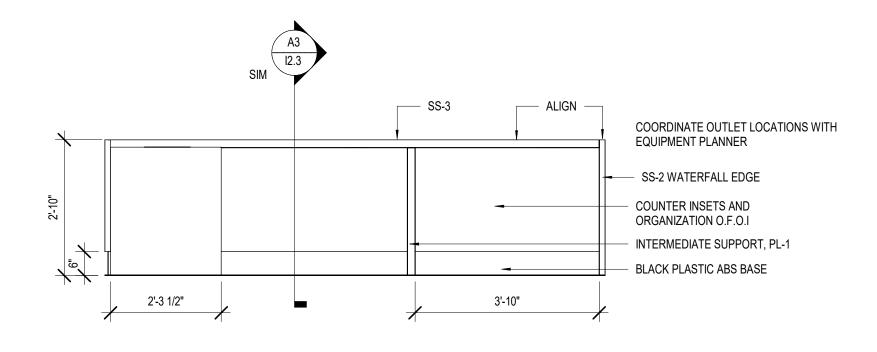
SUPPORT OF SURFACE.

EQUIPMENT PLANNER.

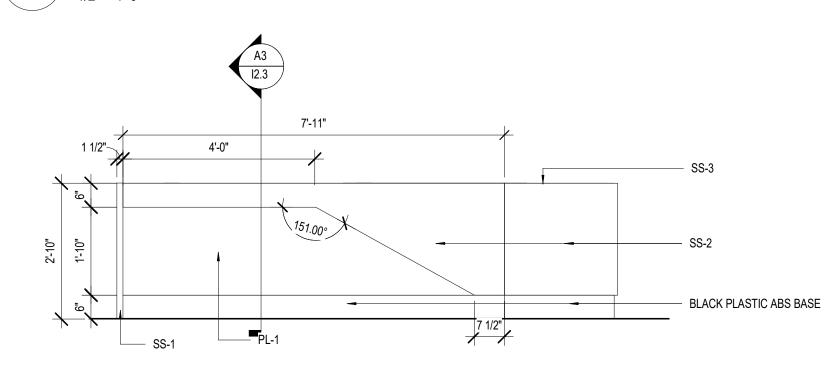
SCHEDULED PLAM ON MDF

ACCOMMODATE WIREWAYS.

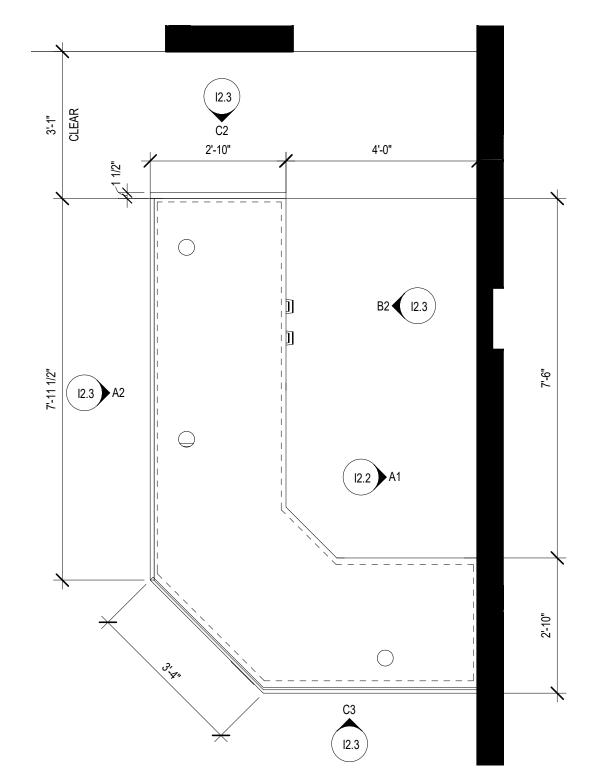
BLACK PLASTIC ABS BASE



B2 WEST ELEVATION - SERVICE COUNTER INTERIOR



A2 EAST ELEVATION - SERVICE COUNTER
1/2" = 1'-0"



A1 ENLARGED PLAN -SERVICE AREA



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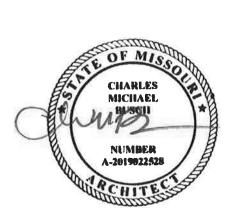
150 AND //OOD ST

NEQ HW 19 HOLLYWO

WHATABURGER

WHATABURGER

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REV	DESCRIPTION	DATE

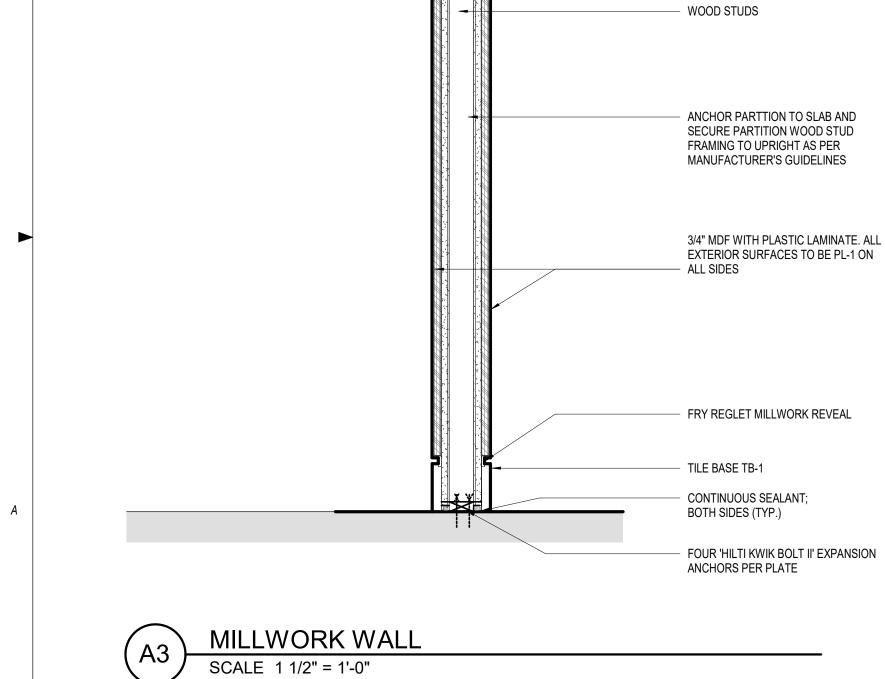
Project No.: 40497-21

Client Project No.:

Drawing Title:

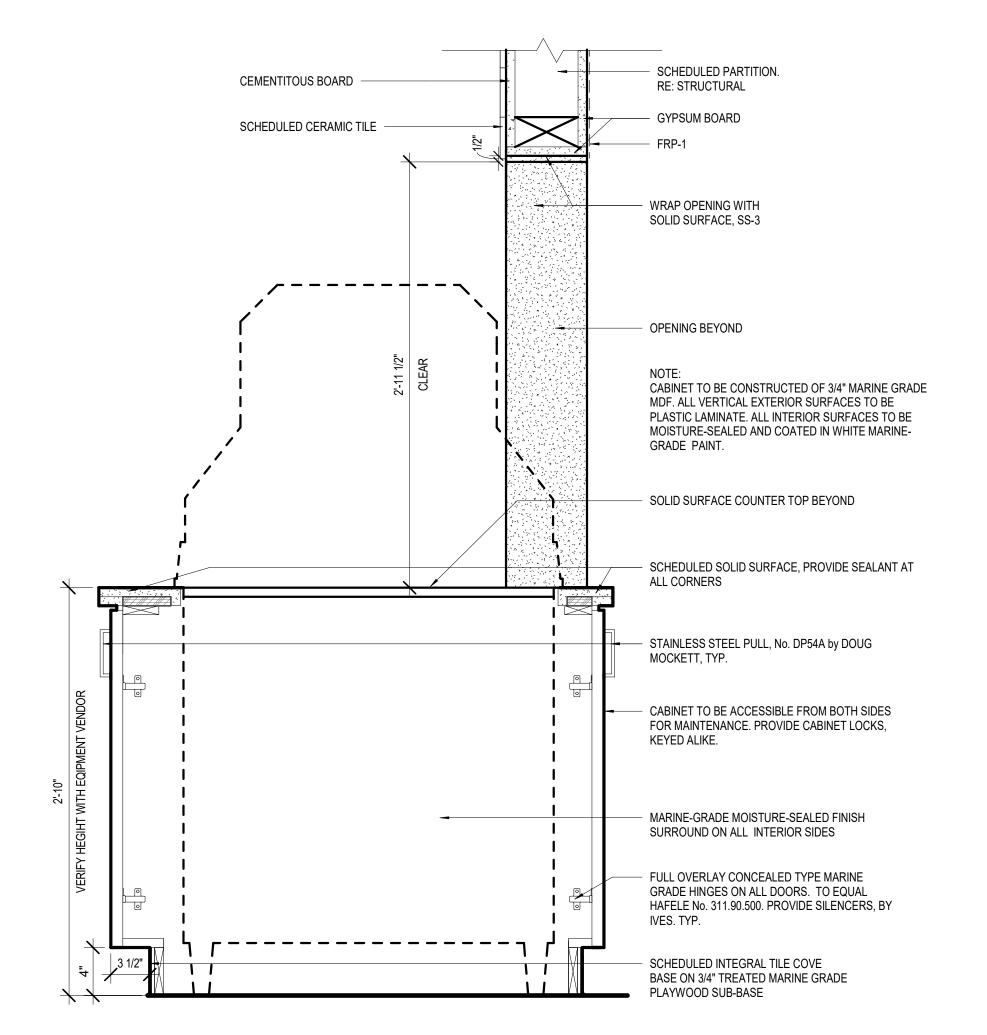
SERVICE COUNTER

Date:	06.29.22	Phase:	PERMIT SE
Designed:	WB	Drawing No.:	
Drawn :	BKN	10 0	
Checked:	AMF	12.3	

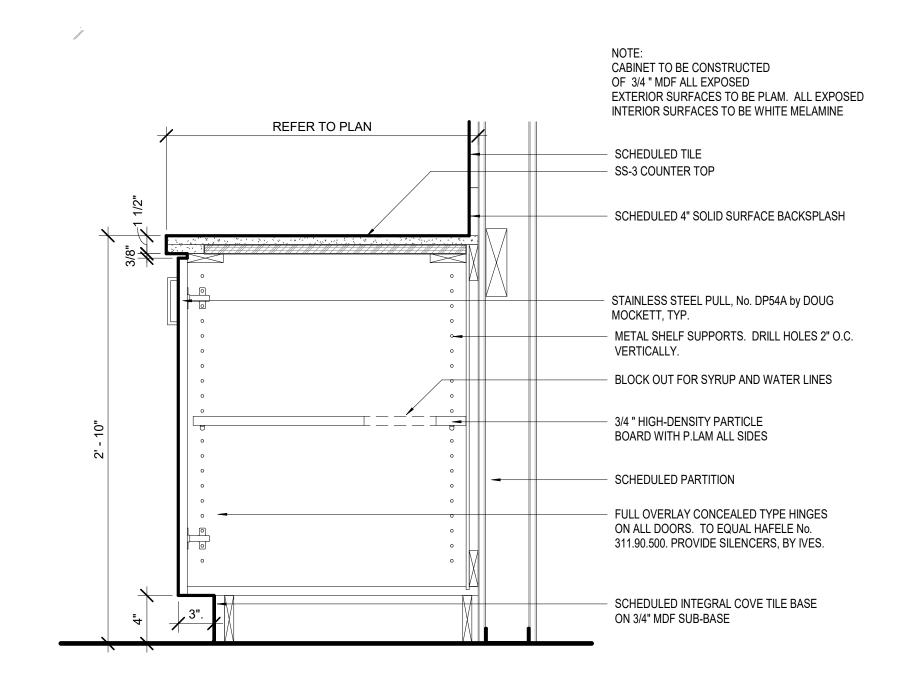


CEMENTITOUS BOARD SCHEDULED CERAMIC TILE 4" SS-3 BACK SPLASH -WOOD STUD, RE: STRUCTURAL SS-3 COUNTER TOP CABINET TO BE CONSTRUCTED 2'-8" OF 3/4 " MDF ALL EXPOSED EXTERIOR SURFACES TO BE PLAM. ALL EXPOSED INTERIOR SURFACES TO BE WHITE MELAMINE. STAINLESS STEEL PULL, No. DP54A by DOUG MOCKETT, TYP. - 3/4 " MDF WITH P.LAM ALL SIDES METAL SHELF SUPPORTS. DRILL HOLES 2" O.C. VERTICALLY. FULL OVERLAY CONCEALED TYPE HINGES
 ON ALL DOORS. TO EQUAL HAFELE №. 311.90.500. PROVIDE SILENCERS, BY IVES. - SCHEDULED PARTITION SCHEDULED INTEGRAL COVE TILE BASE ON \_3/4" MDF SUB-BASE,

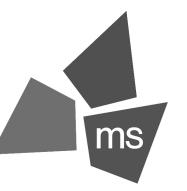
CABINET BEVARAGE STATION DETAIL



BASE CABINET DRINK EQUIPMENT



BASE CABINET FULL DOOR TYP.



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ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528 EXP. DATE 12/31/2023

REV	DESCRIPTION	DATE

40497-21 Project No.: Client Project No.:

Drawing Title:

**DETAILS** 

Date:	06.29.22	Phase:	PERMIT SET
Designed:	WB	Drawing No.:	
Drawn:	BKN	13 1	
01 1 1			

TOP CAP TO

BE 6MM SS-2.

Checked: AMF 



SCALE 12" = 1'-0"



BANQUETTE SEATING

BANQUETTE SEATING

144 MILLWORK TABLES
178 W0MEN'S RESTROOM SIGN
179 OCCUPANCY SIGN
180 THANK YOU FOR CHOOSING WHATABURGER SIGN

181 RESTROOM (SIGN ABOVE)
197 HARMON PICTURE, RE:C1/l4.1

DRIVE THRU AREA #1

OFFICE 112

FREEZER 115

COOLER 114

### **FURNITURE LEGEND** KEY DESCRIPTION SIZE NOTES TABLE 24 X 24 T-2 TABLE 24 X 44 TABLE 24 X 24 COLOR: DAY DOT T-4 TABLE 30 X 48 ADA COMPLIANT TABLES BT-1 BOOTH BT-2 BOOTH

FIELD VERIFY

FIELD VERIFY

23'-0"



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**150 AND** HOLLYWOOD NEQ HW



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ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528 EXP. DATE 12/31/2023

REV	DESCRIPTION	DATE

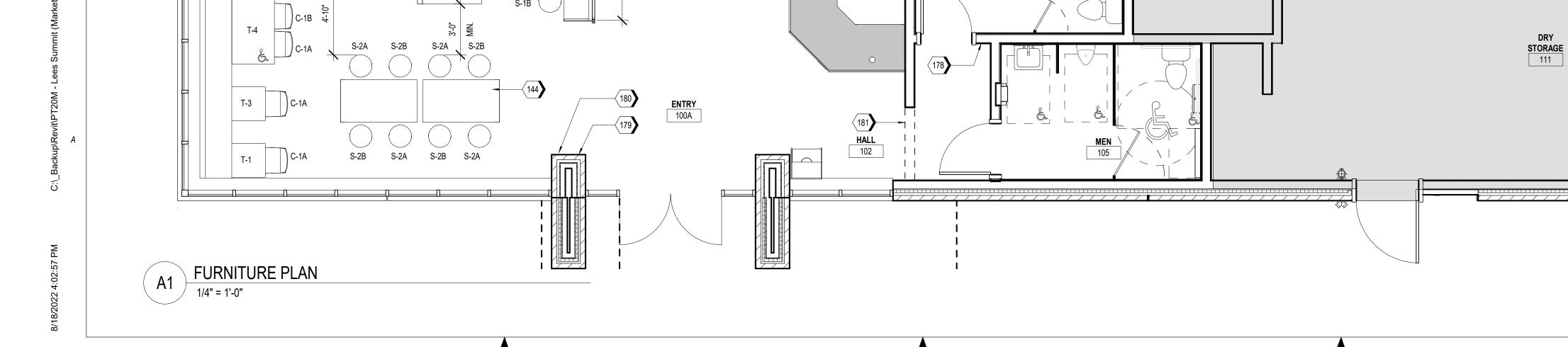
Project No.: 40497-21 Client Project No.:

Drawing Title:

FURNITURE PLAN

Date:	06.29.22	Phase:	PERMI
Designed:	WB	Drawing No.:	
Drawn :	BKN	111	

| **14.1** Checked: AMF



SERVING AREA 103

DINING ROOM 100

COOKING 117

COOKING 107

**ROOM** 110

T-4 ADA

C-1B C-1A

S-1B (

S-1A (

S-1B (

S-1A

ADA

C-1B

C-1A

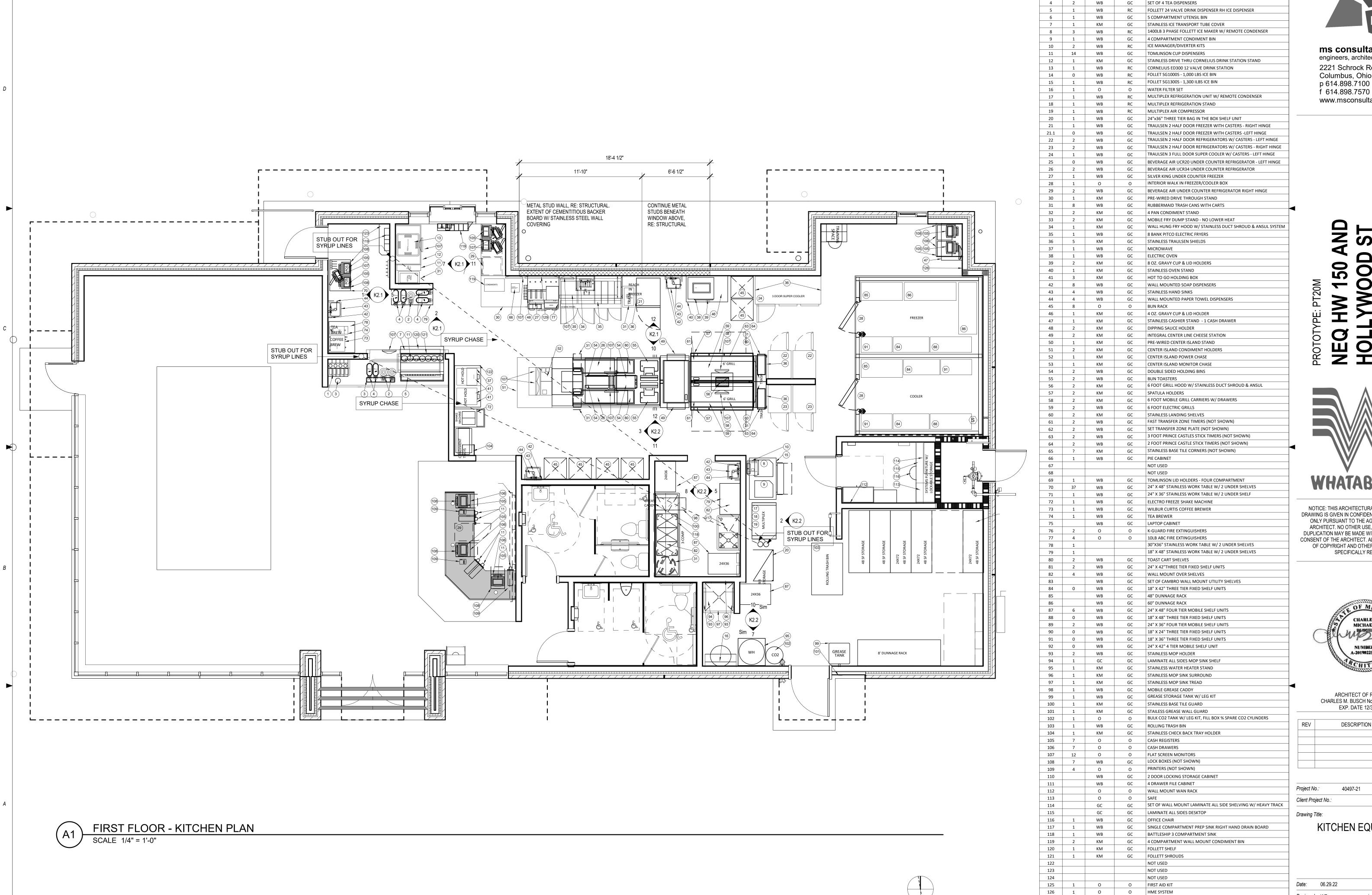
C-1A

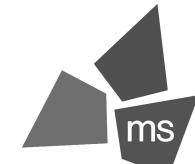
C-1B

C-1A

C-1B

MIN.





NO. PT20 Qty | SUPPLIED BY | INSTALLED BY | EQUIPMENT DESCRIPTION

2 WB GC EXTERIOR TRASH CANS W/ LIDS (NOT SHOWN)

130 1 O O PRE-PRODUCTION TABLET AND MOUNT - SAMSUNG GALAXY TAB A

 128
 2
 WB
 GC
 SMOKER'S OUTPOST (NOT SHOWN)

 129
 1
 0
 0
 43" HUD WALL MOUNTED MONITOR

GC TOMLINSON LID HOLDERS - FIVE COMPARTMENT GC WILBUR CURTIS COFFEE DISPENSERS W/ STANDS

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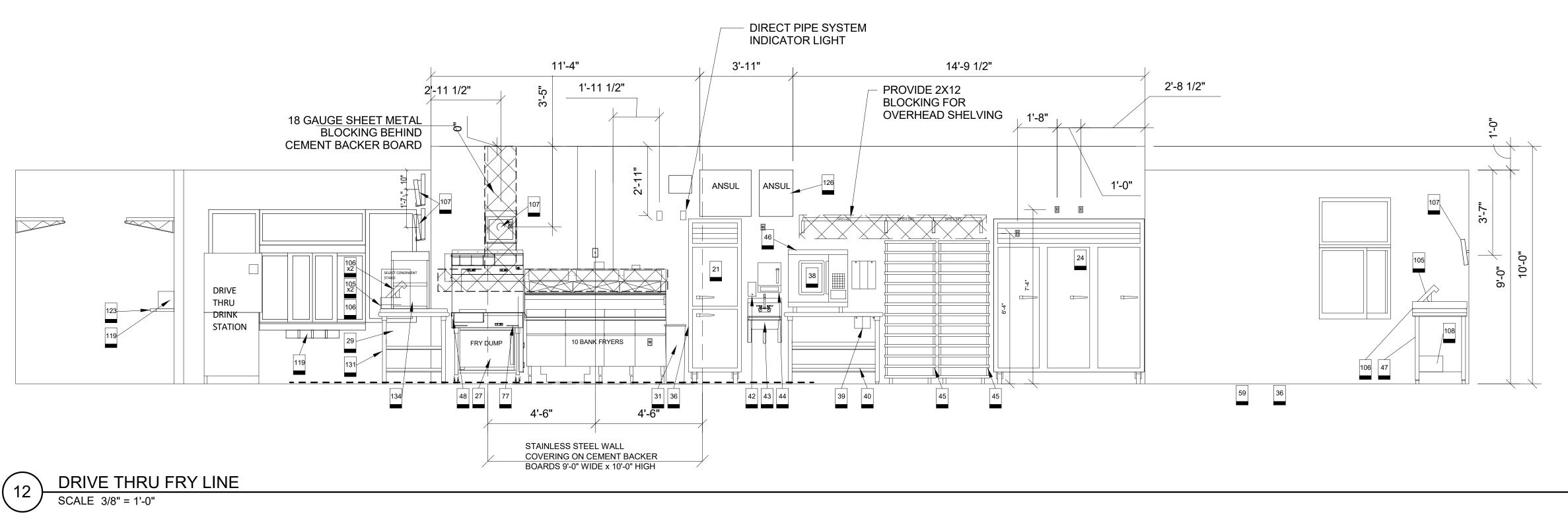
ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528 EXP. DATE 12/31/2023

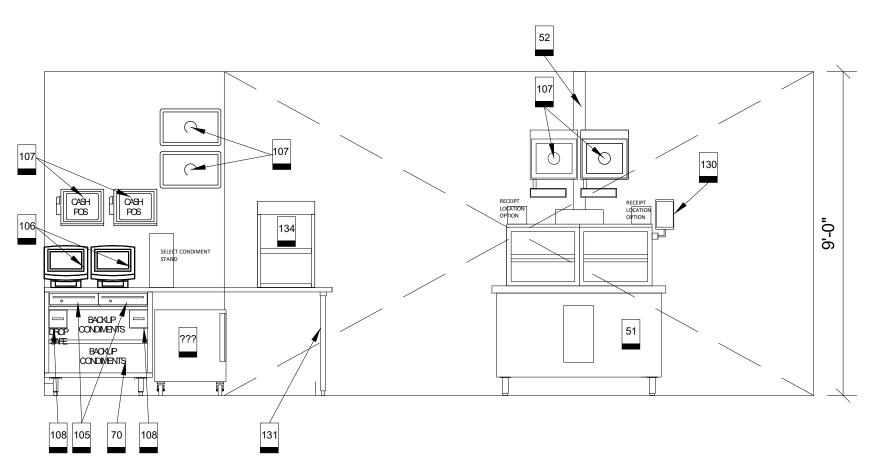
	REV	DESCRIPTION	DATE	
-				
-				
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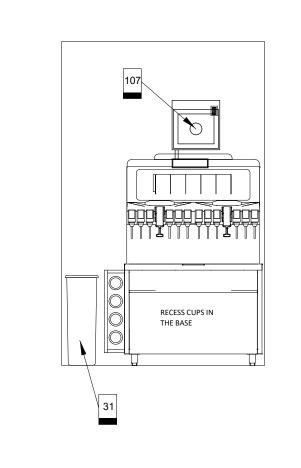
40497-21

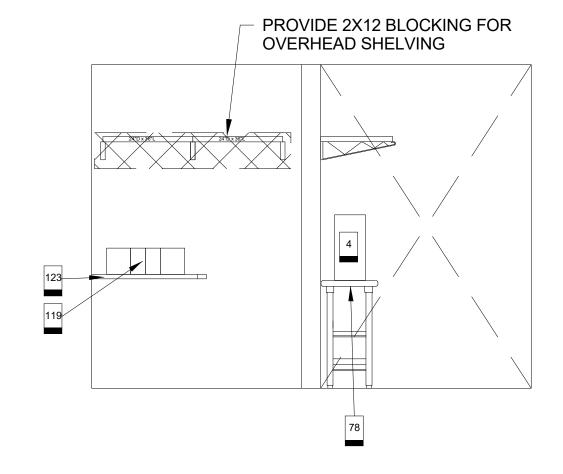
KITCHEN EQUIPMENT

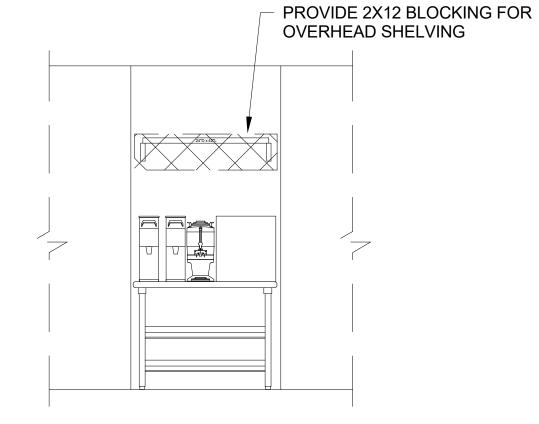
Date:	06.29.22	Phase:	PERMIT SI
Designed:	WB	Drawing No.:	
Drawn:	BKN	1/1	1
Checked:	AMF	K1.1	





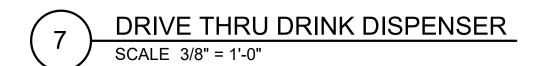




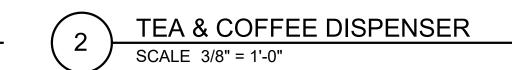


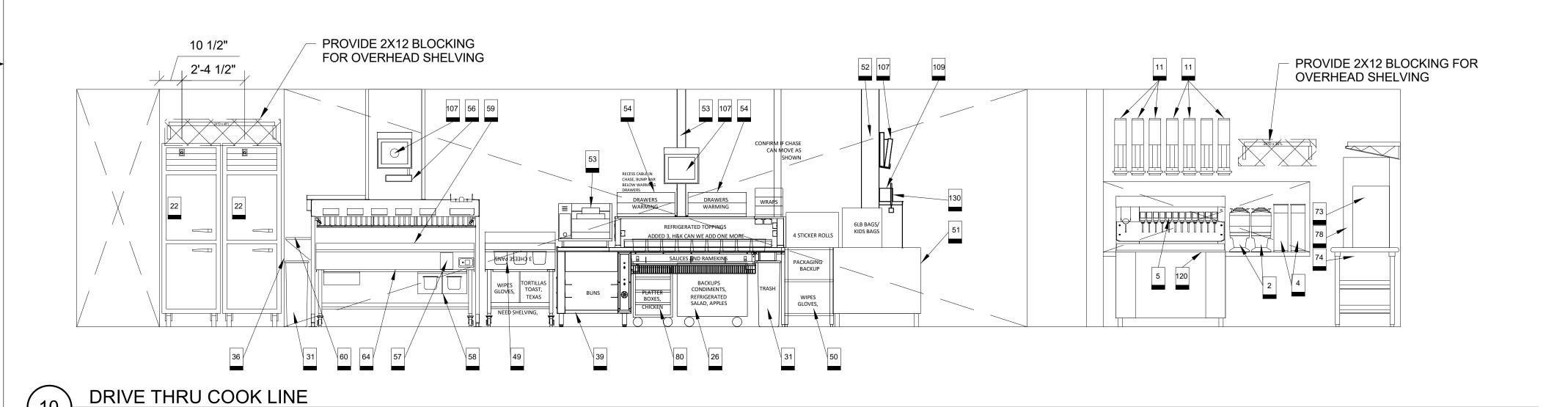
**GATOR** SCALE 3/8" = 1'-0"

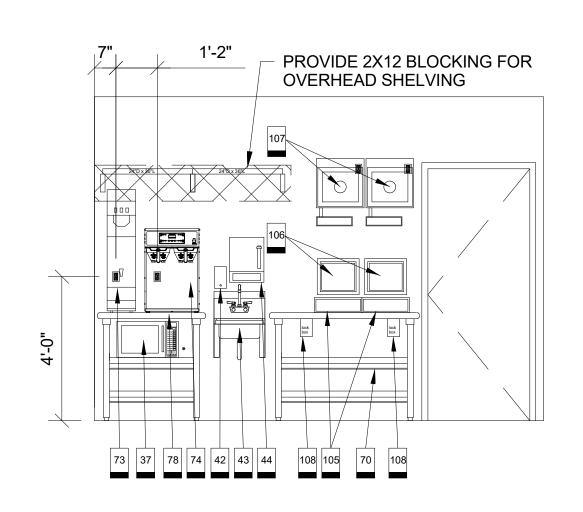
SCALE 3/8" = 1'-0"











**EXPEDITE DOOR** SCALE 3/8" = 1'-0"



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AND YWOOD 150

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ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528 EXP. DATE 12/31/2023

REV	DESCRIPTION	DATE

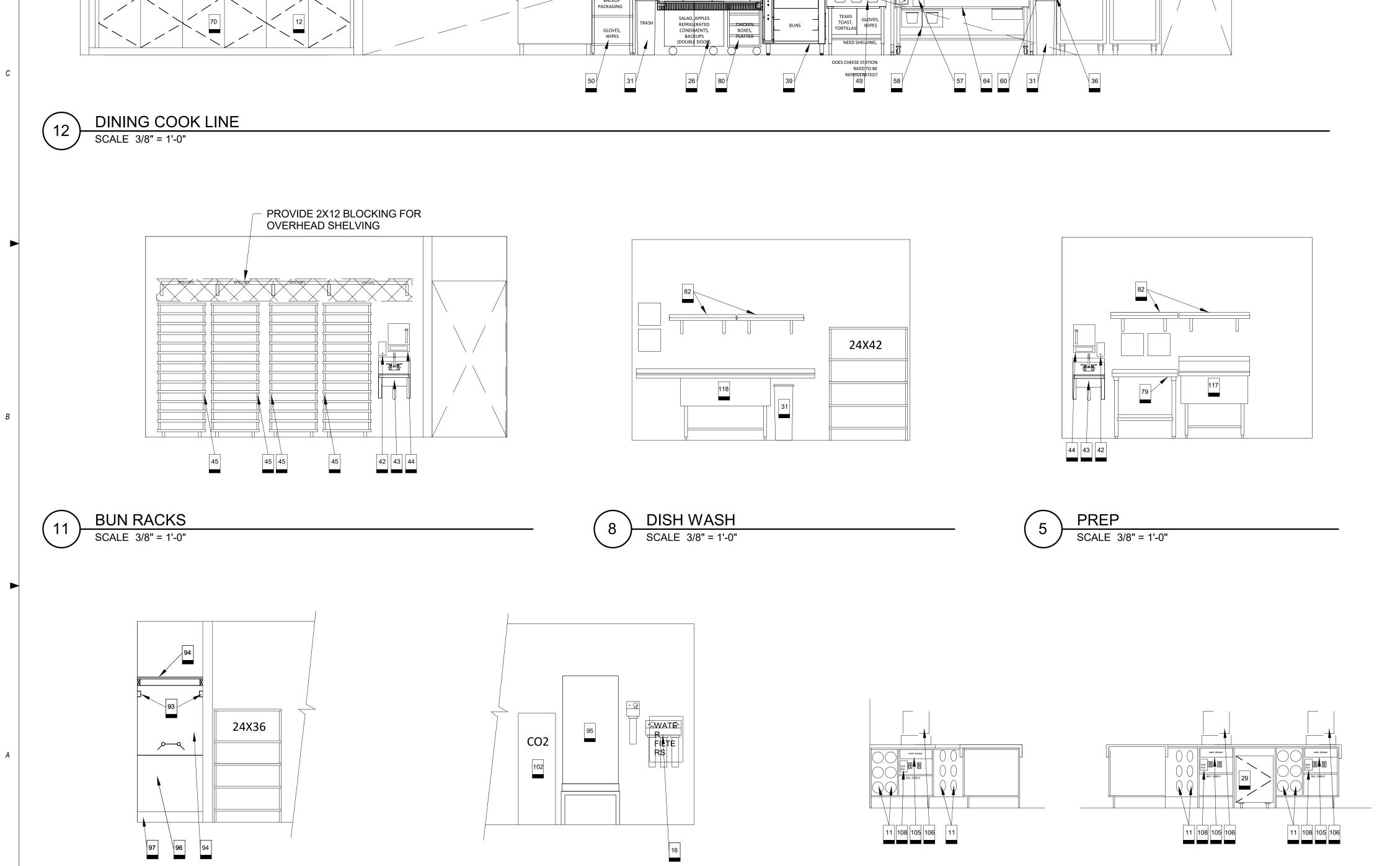
Project No.: 40497-21 Client Project No.:

Drawing Title:

KITCHEN ELEVATIONS

PERMIT SET Date: 06.29.22 Phase: Designed: WB Drawing No.: Drawn: BKN Checked: AMF

K2.1



SERVICE ENTRY HALL 2

SERVICE ENTRY HALL

SERVICE COUNTER

SCALE 3/8" = 1'-0"

PROVIDE 2X12 BLOCKING
 FOR OVERHEAD SHELVING



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HW 150 AND

PROVIDE 2X12 BLOCKING FOR OVERHEAD SHELVING

MULTIPLEX

SHAKE AND HOT COLD

STORAGE

SERVICE ENTRY HALL

SCALE 3/8" = 1'-0"

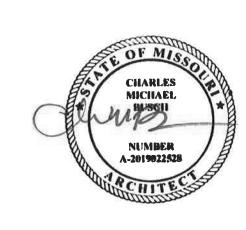
SCALE 3/8" = 1'-0"

24X36

NEQ HW 150 / HOLLYWOOD



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ARCHITECT OF RECORD: CHARLES M. BUSCH No. A-2019022528 EXP. DATE 12/31/2023

REV	DESCRIPTION	DATE

Project No.: 40497-21

Client Project No.:

Drawing Title:

KITCHEN ELEVATIONS

Date:	06.29.22	Phase:	PERMIT SE
Designed:	WB	Drawing No.:	
Drawn:	BKN	1/0	)
Checked:	AMF	NZ.Z	_

TOTALCOM MANAGEMENT, INC. 210-366-1116(OFC)

210-889-4610(CELL)

MOE@TOTALCOM-INC.COM PROJECT EMAIL - WHATABURGER@TOTALCOM-INC.COM

### **VENDOR NOTES**

- A. PLEASE EMAIL TOTALCOM AT WHATABUGER@TOTALCOM-INC.COM FINAL APPROVED SUBMITTALS AND PLANS APPROVED
- PLEASE SEND ANY AND ALL QUESTIONS PERTAINING TO SYSTEM TO WHATABURGER@TOTALCOM-INC.COM OR CONTACT MOE OROIAN AT 210-889-4610
- MUST CONFIRM PRIOR TO BIDDING PROJECT IF THE AHJ WILL REQUIRE TO MONITOR THE PIT VALVE AND / OR THE CO2 TANK USED FOR THE CARBONATION FOR THE SOFT DRINKS
- IF LOCAL AHJ REQUIRES A PHONE LINE (POTS), PLEASE NOTIFY TOTALCOM MANAGEMENT, INC. AS SOON AS POSSIBLE TO ALLOW A POTS LINE TO BE INSTALLED PRIOR TO INSPECTION
- FACP SHALL BE EITHER A FIRELITE MS-10UD-7 FOR CONVENTIONAL PANELS OR A FL-ES50X FOR ADDRESSABLE -DEPENDANT ON THE LOCAL AHJ REQUIREMENTS - CELL COMUNICATOR SHALL BE A NAPCO STARLINK SLE-LTEVI-FIRE
- FIRE ALARM COMPANY MUST EMAIL RADIO INFORMATION (ID#) 2 WEEKS PRIOR TO SCHEDULED INSTALL TO TOTALCOM MANAGEMENT AT WHATABURGER@TOTALCOM-INC.COM. TOTALCOM WILL PROGRAM RADIO WITH IP ADDRESS AND ACCOUNT NUMBER. INSTALLING COMPANY MUST ALSO NOTIFY TOTALCOM WHEN FINAL INSPECTION IS SCHEDULED WITH FIRE MARSHAL. TOTALCOM WILL PROVIDE ACCOUNT INFO, PASSWORD AND PHONE NUMBER FOR TESTING OF SYSTEM PLEASE EMAIL TOTALCOM AT WHATABUGER@TOTALCOM-INC.COM FINAL APPROVED SUBMITTALS AND PLANS APPROVED
- FOR ALL PROJECTS BUILT WITHIN THE STATE OF TEXAS: FIRE ALARM COMPONENTS SHALL BE SUPPLIED BY TOTALCOM, PLEASE CALL FOR PRICING.

### FIRE ALARM GENERAL NOTES

FACP UL LISTED FIRE ALARM CONTROL PANEL ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR

FIRE ALARM SYMBOLS

CEILING MOUNT STROBE

CEILING MOUNT HORN/STROBE

WALL MOUNT HORN/STROBE

WEATHERPROOF WALL MOUNT HORN/STROBE

WEATHERPROOF WALL MOUNT STROBE

ADDRESSABLE MANUAL PULL STATION

ADDRESSABLE MONITOR MODULE

FIRE ALARM ANNUNCIATOR PANEL

PROVIDE AN ADDRESSABLE OR CONVENTIONAL FIRE ALARM / SPRINKLER MONITORING SYSTEM THROUGHOUT BUILDING IN ACCORDANCE WITH NFPA 72 AND LOCAL ADOPTED BUILDING / FIRE CODES AND STANDARDS. REGARDLESS OF TYPE, EACH ZONE / INITIATING FIELD DEVICES SHALL GENERATE ITS OWN SIGNAL TO CENTRAL STATION.

DO NOT LOCATE AREA SMOKE DETECTORS IN DIRECT AIR OR CLOSER THAN 3 FT FROM AN AIR SUPPLY OR RETURN DIFFUSER.

PROVIDE CONNECTIONS TO THE POWER SERVICE PER NFPA 72 FOR FIRE PANELS.

PROVIDE 18 AWG MINIMUM INITIATING DEVICE AND SIGNALING LINE CIRCUITS. SIZE WIRING AS REQUIRED.

PROVIDE 16 AWG MINIMUM NOTIFICATION APPLIANCE CIRCUITS. SIZE WIRING AS REQUIRED.

PROVIDE SLEEVES AND WALL PLATES FOR ALL PENETRATIONS THROUGH WALLS OR FLOORS THAT MIGHT INCLUDE DRILLING THROUGH CONCRETE, METAL, SHEETROCK, OR OTHER MATERIALS. SEAL ALL PENETRATIONS IN FIRE-RATED SEPARATIONS TO MEET THE MINIMUM FIRE RATING OF THE WALL OR FLOOR.

PROVIDE NOTIFICATION AND SIGNAL LINE APPLIANCE CIRCUITS PER AHJ AND LOCAL CODES AND STANDARDS.

REQUIRED CONDUIT TO FAAP TO BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR/ELECTRICAL CONTRACTOR.

NOT USED.

### FIRE ALARM GENERAL NOTES

- CONFIRM WITH AHJ AND LOCAL AMENDMENTS THAT EMERGENCY RESPONDER RADIO COVERAGE IS NOT REQUIRED.
- THESE DOCUMENTS DEPICT A PERFORMANCE LEVEL ENGINEERING DESIGN LAYOUT TO BE UTILIZED AS GUIDANCE FOR THE PLANNING OF THE FIRE ALARM SYSTEM BY THE CONTRACTOR. PROVIDE COMPLETE DOCUMENTS FOR REVIEW AND APPROVAL FROM THE ENGINEER AND THE AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION. INCLUDE IN THE SHOP DRAWINGS, CALCULATIONS, AND ANY INSTALLATION INFORMATION AND COMPLY WITH LOCAL CODES AND AMENDMENTS.
- IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE A PROPER SPRINKLER MONITORING SYSTEM OR A FIRE ALARM SYSTEM THAT MEETS THE MINIMUM LOCAL AHJ REQUIREMENTS. NOTIFICATION AND INITIATING DEVICE QUANTITIES

### FIRE PROTECTION GENERAL NOTES

- A. AUTOMATIC SPRINKLER SYSTEM PROVIDED BY OTHERS. CONFIRM REQUIREMENT WITH LOCAL AHJ, CODES, AND AMENDMENTS.
- B. CLIENT TO PROVIDE WET CHEMICAL SUPPRESSION SYSTEM IN KITCHEN FOR KITCHEN COOKING EQUIPMENT AS REQUIRED BY AHJ AND LOCAL AMENDMENTS.



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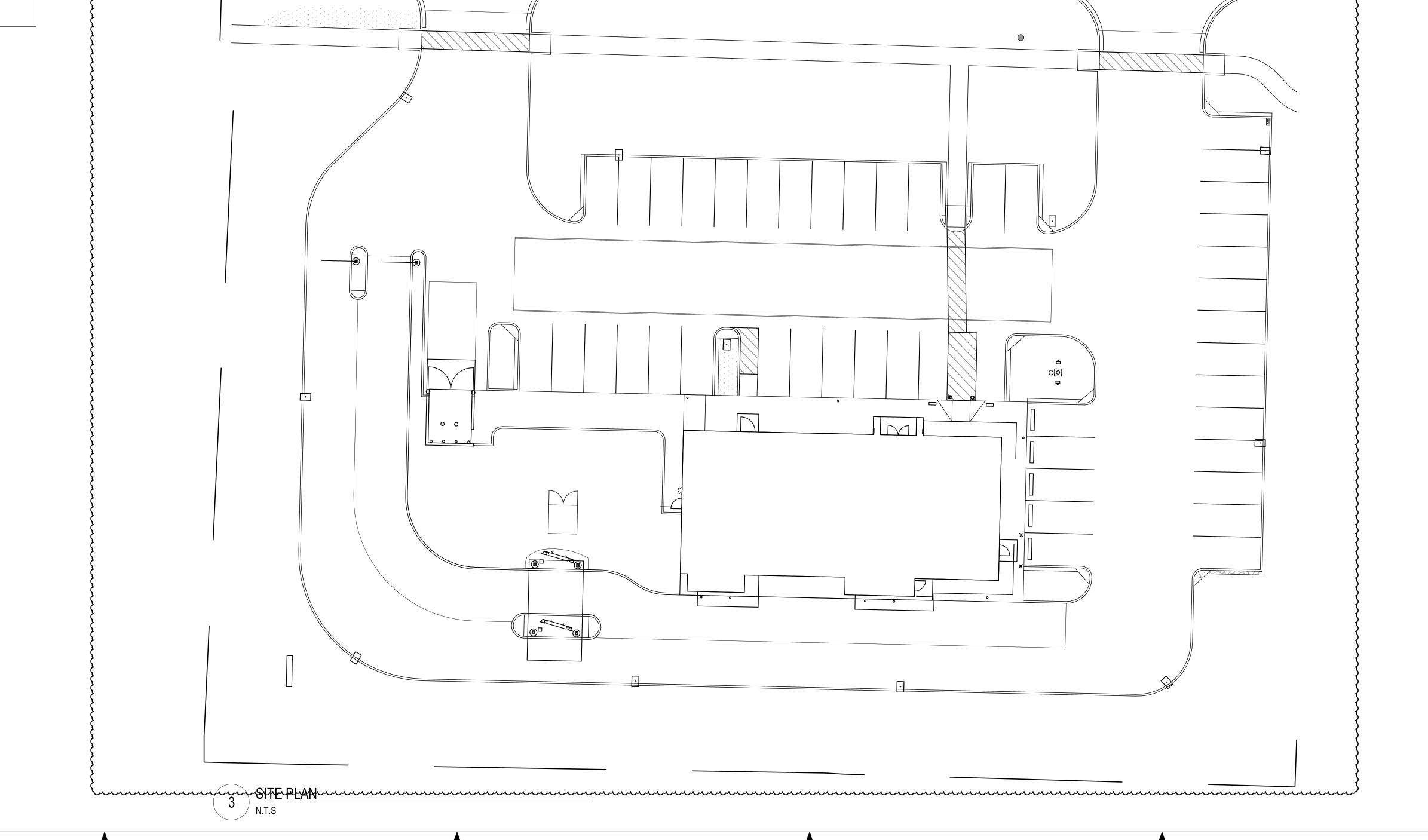
REV	DESCRIPTION	DATE
1	Development Comment Response	08/03/22

Project No.: 62-40497 - 21 Client Project No.:

Drawing Title: SITE PLAN

Phase: PERMIT SET Date: 06.29.2022

Designed: JPF Drawn: JPF Checked: KFF



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### **VENDOR NOTES**

- B. PLEASE SEND ANY AND ALL QUESTIONS PERTAINING TO SYSTEM TO WHATABURGER@TOTALCOM-INC.COM OR CONTACT MOE OROIAN AT 210-889-4610
- C. MUST CONFIRM PRIOR TO BIDDING PROJECT IF THE AHJ WILL
- IF LOCAL AHJ REQUIRES A PHONE LINE (POTS), PLEASE NOTIFY TOTALCOM MANAGEMENT, INC. AS SOON AS POSSIBLE TO ALLOW A POTS LINE TO BE INSTALLED PRIOR TO INSPECTION
- FACP SHALL BE EITHER A FIRELITE MS-10UD-7 FOR DEPENDANT ON THE LOCAL AHJ REQUIREMENTS - CELL
- FIRE ALARM COMPANY MUST EMAIL RADIO INFORMATION (ID#) 2 WEEKS PRIOR TO SCHEDULED INSTALL TO TOTALCOM MANAGEMENT AT WHATABURGER@TOTALCOM-INC.COM. TOTALCOM WILL PROGRAM RADIO WITH IP ADDRESS AND ACCOUNT NUMBER. INSTALLING COMPANY MUST ALSO NOTIFY TOTALCOM WHEN FINAL INSPECTION IS SCHEDULED WITH FIRE MARSHAL. TOTALCOM WILL PROVIDE ACCOUNT INFO, PASSWORD AND PHONE NUMBER FOR TESTING OF SYSTEM PLEASE EMAIL TOTALCOM AT WHATABUGER@TOTALCOM-INC.COM FINAL APPROVED SUBMITTALS AND PLANS APPROVED
- FOR ALL PROJECTS BUILT WITHIN THE STATE OF TEXAS: FIRE ALARM COMPONENTS SHALL BE SUPPLIED BY TOTALCOM, PLEASE CALL FOR PRICING.

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ENTRY 100A

DINING ROOM

FIRE ALARM PLAN

### FIRE ALARM GENERAL NOTES

- DUCT DETECTORS WITH REMOTE TEST SWITCHES WILL BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR
- DUCT DETECTORS TO BE MONITORED BY FACP WHERE REQUIRED BY AHJ

### **KEYNOTES**

- PHOTOELECTRIC SMOKE DETECTOR MOUNTED 320 ABOVE FIRE ALARM CONTROL PANEL IN ACCORDANCE WITH NFPA 72.
- FIRE ALARM ANNUNCIATOR PANEL SHOWN FOR REFERENCE, COORDINATE FINAL LOCATION WITH 321 CONSTRUCTION DOCUMENTS. LOCATION NOT TO INTERFER WITH WB PROVIDED WALL ART OR ARCHTECTUAL FEATURES.
- RTU DUCT SMOKE DETECTOR SHOWN FOR REFERENCE. COORDINATE FINAL LOCATION WITH
- CONSTRUCTION DOCUMENTS. 323 PROVIDE FIRE ALARM CONTROL PANEL
- MONITOR KITCHEN COOKING EQUIPMENT SUPPRESSION SYSTEM FOR ACTIVATION.

DRIVE THRU AREA #1 116

FREEZER 115

COOLER 114

OFFICE 112

FACP

FIRE RISER

COOKING 117

MEN 105

WOMEN 106

SERVING AREA

HALL 102

COORDINATE FINAL LOCATION WITH OWNER PRIOR TO ROUGH-IN

WASH ROOM 110

RTU-1

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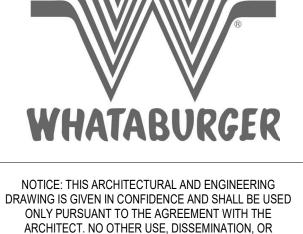
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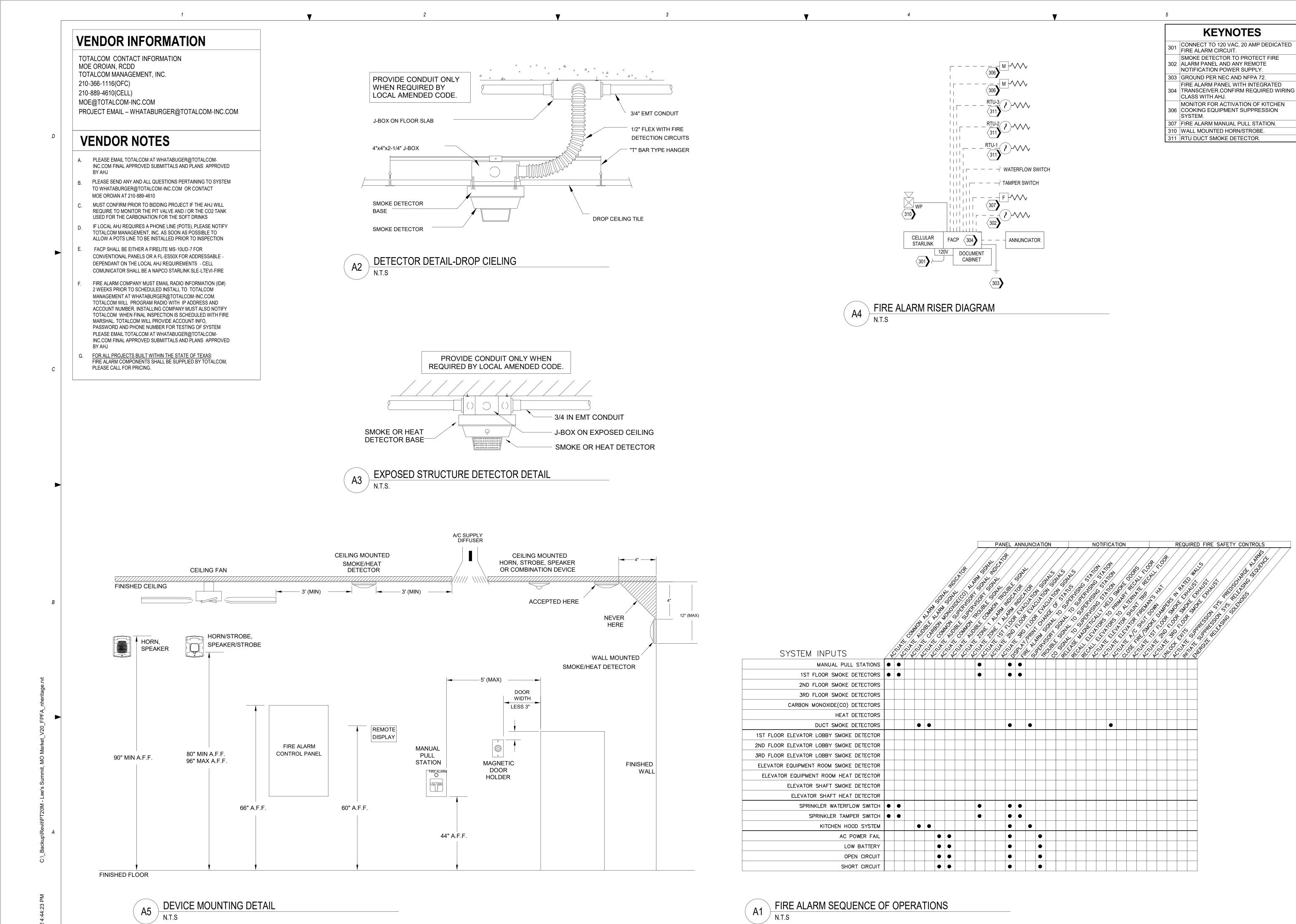
Project No.: 62-40497 - 21 Client Project No.:

Drawing Title:

FIRE ALARM PLAN

Phase: PERMIT SET 06.29.2022 Designed: JPF Drawing No.:

- A. PLEASE EMAIL TOTALCOM AT WHATABUGER@TOTALCOM-INC.COM FINAL APPROVED SUBMITTALS AND PLANS APPROVED
- REQUIRE TO MONITOR THE PIT VALVE AND / OR THE CO2 TANK USED FOR THE CARBONATION FOR THE SOFT DRINKS
- CONVENTIONAL PANELS OR A FL-ES50X FOR ADDRESSABLE -COMUNICATOR SHALL BE A NAPCO STARLINK SLE-LTEVI-FIRE



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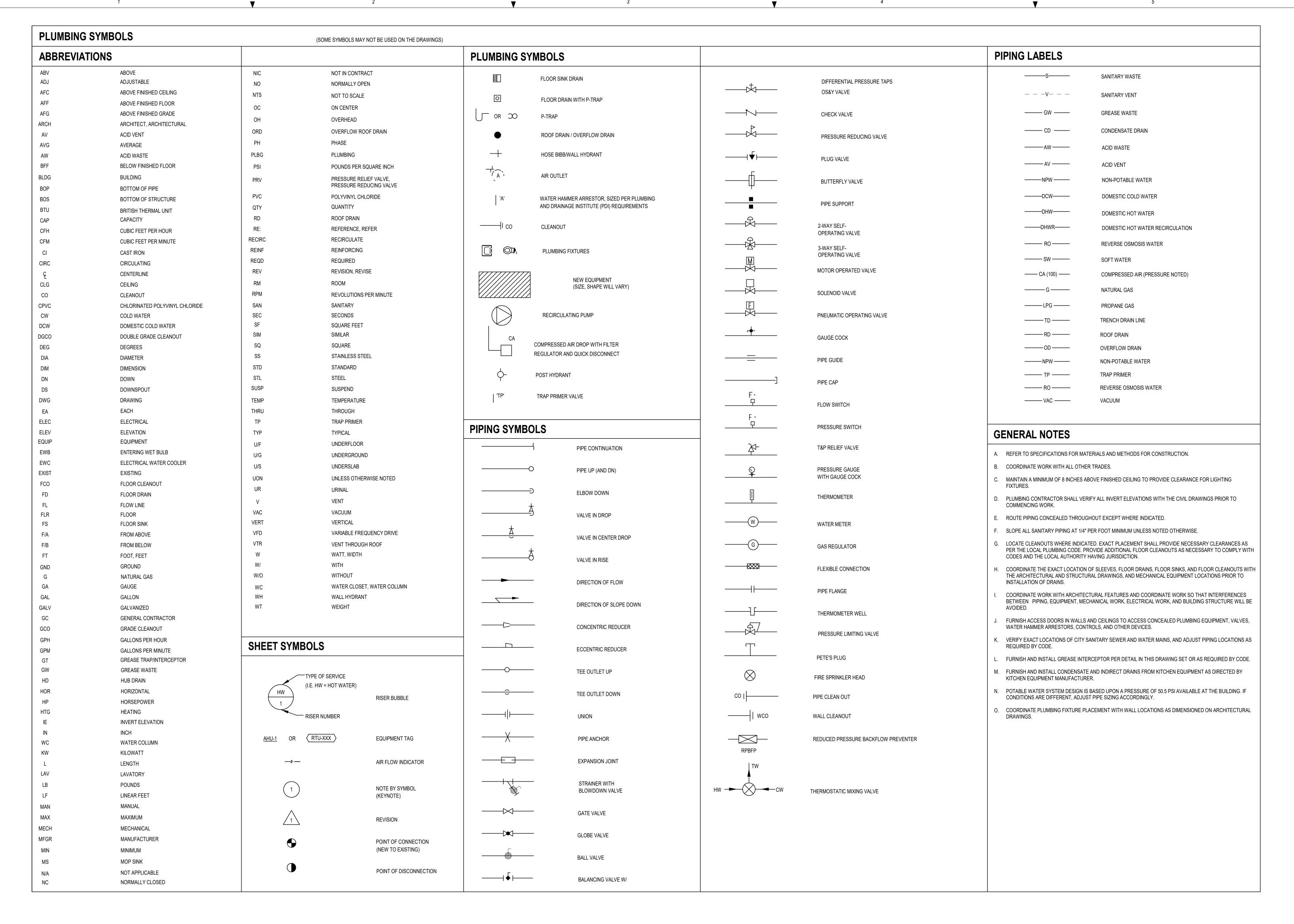
Project No.: 62-40497 - 21 Client Project No.:

Drawing Title:

FIRE ALARM DETAIL

Phase: PERMIT SET Date: 06.29.2022 Designed: JPF Drawing No.: Drawn: JPF

Checked: KFF





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HW 150 AND YWOOD ST

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01/17/20 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/2022

ı			
	REV	DESCRIPTION	DATE

Project No.: 62-40497-21

Client Project No.:

Drawing Title:

PLUMBING SYMBOLS AND ABBREVIATIONS

 Date:
 06.29.2022
 Phase:
 PERMIT SET

 Designed:
 JPF
 Drawing No.:

 Drawn:
 JPF

Drawn: JPF Checked: KFF

P0.1

# FIXTURE UNIT CALCULATIONS SCALE: N.T.S.

W.S.F.U. 43.5 FU = 27.3 GPM (1-1/2" MIN. WATER SERVICE)

FIXTURE UNIT COUNT

ITEM

LAVATORY

HAND SINK

MOP SINK

PREP SINK

HOSE BIBB # 1

HOSE BIBB # 2

FLOOR SINK

URINAL (FLUSH VALVE)

3-COMP. SINK (1 FAUCET)

MISC. EQUIP. ITEMS

FLOOR SINK (KITCHEN)

TOTAL FIXTURE UNITS:

WATER CLOSET (FLUSH TANK)

PLUMBING SITE PLAN

QTY. SIZE D.F.U.

1 2" 2.0 2.0 SAN. 2.0

4 | 1.25" | 2.0 | 8.0 SAN. | 1.5

1 3" 3.0 3.0 GW 3.0

1 FS - - GW 3.0

2 3" 5.0 10.0 SAN.

4 3" 5.0 20.0 GW

2 2" 2.0 4.0 SAN.

D.F.U. 61.0 FU = 4" PIPING HORIZONTAL @ 1/4" PER FOOT SLOPE (216 FU MAX.)

5 FS - - GW 1.0

23.0 GW

38.0 SAN.

2 1.25" 1.0 2.0 SAN. 1.0

3 4" 4.0

PROJECT: WHATABURGER LOCATION: OZARK, MO

TOTAL D.F.U. W.S.F.U. TOTAL W.S.F.U.

2.5

1.0

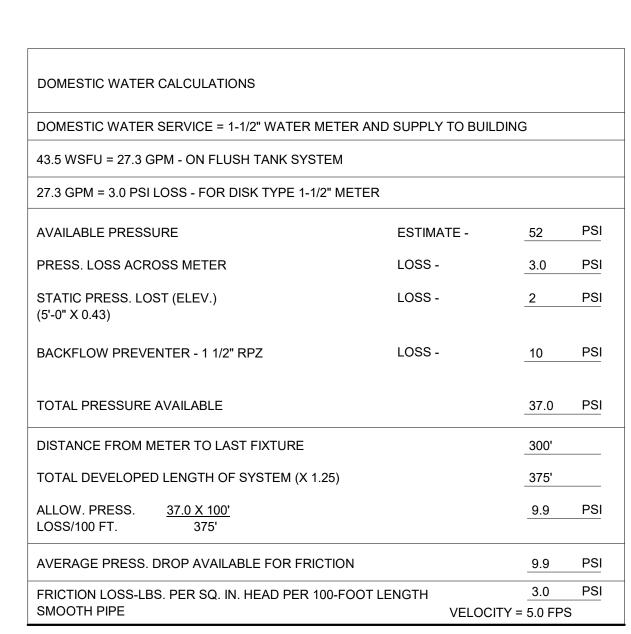
2.0

6.0

W.S.F.U.

43.5

1/8" = 1'-0"



FORMULA FOR	MIXING HOT AND	COLD	WATER
<u>M-C =</u> H-C	% OF HOT WATE DESIRED MIXED		QUIRED TO PRODUCE ERATURE
M = C = H =	MIXED WATER T COLD WATER TI HOT WATER TEI	EMPER	RATURE
TEMPERATURE FACTORS COLD WATER			
	WHEN INCOMING COLD WATER IS	MUL <sup>*</sup>	TIPLY HOT WATER D BY
	50°	С	0.90
	60°	C	0.80
	70°		
	70	'	0.70
	POSE HOT WATER		0.70 SUMPTION GUIDE FOR VARIOU
KITCHEN USAG	POSE HOT WATER		
KITCHEN USAG APPLICATION	POSE HOT WATER	R CON	SUMPTION GUIDE FOR VARIOU
KITCHEN USAG APPLICATION PREP SINK	POSE HOT WATER	R CONS	SUMPTION GUIDE FOR VARIOU  CONSUMPTION (GPH)
KITCHEN USAG APPLICATION PREP SINK TRIPLE POT SIN	POSE HOT WATER	QTY.	SUMPTION GUIDE FOR VARIOU  CONSUMPTION (GPH)  1 X 30 = 30
KITCHEN USAG APPLICATION PREP SINK TRIPLE POT SIN HAND SINKS	POSE HOT WATER	QTY.	SUMPTION GUIDE FOR VARIOU  CONSUMPTION (GPH)  1 X 30 = 30  1 X 90 = 90
GENERAL PURI KITCHEN USAG APPLICATION PREP SINK TRIPLE POT SIN HAND SINKS LAVATORIES	POSE HOT WATER	QTY.	SUMPTION GUIDE FOR VARIOU  CONSUMPTION (GPH)  1 X 30 = 30  1 X 90 = 90  4 X 5 = 20
KITCHEN USAG APPLICATION PREP SINK TRIPLE POT SIN HAND SINKS LAVATORIES	POSE HOT WATER	QTY.  1 1 4 2	CONSUMPTION (GPH)  1 X 30 = 30  1 X 90 = 90  4 X 5 = 20  2 X 6 = 12
KITCHEN USAG APPLICATION PREP SINK TRIPLE POT SIN HAND SINKS LAVATORIES MOP SINK (OF	POSE HOT WATER SES.  NK  F PEAK = 0)	QTY.  1 1 4 2	CONSUMPTION (GPH)  1 X 30 = 30  1 X 90 = 90  4 X 5 = 20  2 X 6 = 12  1 X 10 = 10  162 GPH @ 90° RISE  TOTAL

# WATER HEATER CALCULATIONS SCALE: N.T.S.

### **GENERAL NOTES**

- REFER TO P0.1 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- B. REFER TO CIVIL DRAWINGS FOR ADDITIONAL PLAN AND DETAIL INFORMATION.



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### **KEYNOTES**

CONTRACTOR SHALL FURNISH AND INSTALL A TRAFFIC RATED EXTERIOR CLEAN-OUT. THE CLEAN-OUT SHALL BE INSTALLED FLUSH WITH THE FINISHED GRADE AND IN CASED IN 8" OF

6" FIRE LINE ENTRANCE SEE CIVIL DRAWINGS FOR POINT OF CONNECTION. GREASE INTERCEPTOR VENTS BELOW GRADE, EXTEND TO BUILDING. SEE P1.2 FOR CONTINUATION. REFERENCE CIVIL FOR CONTINUATION.

MAIN SHUT-OFF VALVE IN CAST IRON BLOCK. DOMESTIC WATER SERVICE ENTRANCE, SEE PLUMBING FLOOR PLAN SHEET P1.1 FOR CONTINUATION AND CIVIL PLANS FOR POINT OF CONNECTION. REFER TO CIVIL UTILITY PLAN FOR BACKFLOW PREVENTER (BFP) COMPLYING WITH LOCAL GOVERNING JURISDICTION

BELOW GRADE GREASE INTERCEPTOR AND SAMPLE WELL, REFER TO SHEET P4.1 FOR DETAIL. COORDINATE LOCATION WITH CONSTRUCTION MANAGER AND CIVIL ENGINEER'S CONSTRUCTION

# YWOOD 50

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04/12/19 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/2022

REV	DESCRIPTION	DATE

Project No.:	62-40497-21
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PLUMBING SITE PLAN

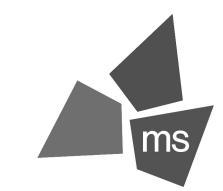
Date:	06.29.2022	Phase:	PERMIT SET
Designed:	JPF	Drawing No	). <i>:</i>
Drawn:	JPF	<b>D</b> 4	^

Checked: KFF

DOMESTIC WATER
SERVICE CALCULATIONS
SCALE: N.T.S.

SAMPLE WELL 7

- A. REFER TO P0.1 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- B. REFER TO PLUMBING RISER DIAGRAMS AND SCHEDULES FOR ADDITIONAL PIPE ROUTING AND SIZING.
- PROVIDE ASSE-1070 CERTIFIED THERMOSTATIC MIXING VALVES AT ALL LAVATORIES AND HANDSINKS. RE: PLUMBING SCHEDULES.
- D. ALL DOMESTIC COLD AND HOT WATER PIPING SHALL BE COPPER.



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# HW 150 AND YWOOD ST NWQ HW HOLL

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04/12/19 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/2022

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	REV	DESCRIPTION	DATE
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Project No.: 62-40497-21

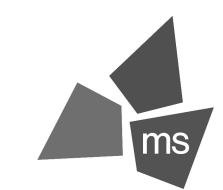
Client Project No.:

Drawing Title:

PLUMBING DOMESTIC WATER PLAN

Phase: PERMIT SET Date: 06.29.2022 Designed: JPF Drawing No.:

- REFER TO P0.1 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- REFER TO PLUMBING RISER DIAGRAMS AND SCHEDULES FOR ADDITIONAL PIPE ROUTING AND SIZING.
- NO 90 DEGREE WASTE FITTINGS ARE TO BE USED IN THE HORIZONTAL POSITION BELOW THE SLAB. UTILIZE 45 DEGREE FITTINGS CREATING A MINIMUM 3' SWEEP.



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NWQ HW 150 AND HOLLYWOOD ST



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04/12/19 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/2022

REV	DESCRIPTION	DATE

Project No.: 62-40497-21 Client Project No.:

Drawing Title:

PLUMBING DWV PLAN

Phase: PERMIT SET Date: 06.29.2022 Designed: JPF Drawing No.:

- A. REFER TO P0.1 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- B. REFER TO PLUMBING RISER DIAGRAMS AND SCHEDULES FOR ADDITIONAL PIPE ROUTING AND SIZING.

MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM ALL PLUMBING VENTS AND EXHAUST FANS TO ANY FRESH AIR INTAKE OF HVAC UNITS. TERMINATE VENTS FROM GREASE INTERCEPTOR AT HEIGHT OF PARAPET WALL. PROVIDE BRACING

CONTRACTOR SHALL FURNISH AND INSTALL A NON-FREEZE ROOF HYDRANT. CONNECT A 1" COLD WATER PIPE TO THE ROOF HYDRANT BELOW THE ROOF.



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# HW 150 AND YWOOD ST

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04/12/19
PROFESSIONAL OF RECORD:
JASON E. CHRISTOFF No.2012002143
EXP DATE: 12/31/2022

REV	DESCRIPTION	DATE

Project No.: 62-40497-21 Client Project No.:

PLUMBING ROOF PLAN

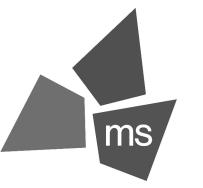
Date:	06.29.2022	Phase:	PERMIT SE
Designed:	JPF	Drawing No	). <i>:</i>

P2.1 Checked: KFF

SECONDARY SCUPPER SIZE: 10" X 24"

PRIMART ROOF DRAIN CALCS - DOWNSPOUTS				
F	ormula: Qprimary	/=(ps*A*i)/n	CALCULATIONS BASED OFF 2018 INTERNATIONAL PLUMBING CODE	
	VARIABLE	INPUTS	DESCRIPTION	
	ps (inches)	.125	slope of horizontal drainage piping (INCHES)	
	ps (in./ft.), calc.	0.01041667	slope of horizontal drainage piping (in./ft.)	
	Α	2937	area of roof (sq. ft.)	
	i	3	rainfall intensity in inches/hour, 60 min. duration	
	n	2	number of primary roof drains	
	TOTAL gpm	45.89	TOTAL required gpm for each Roof Drain	

PRIMARY DRAIN SIZE: 4"



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AND ST



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DESCRIPTION	DATE
	DESCRIPTION

Project No.: 62-40497-21

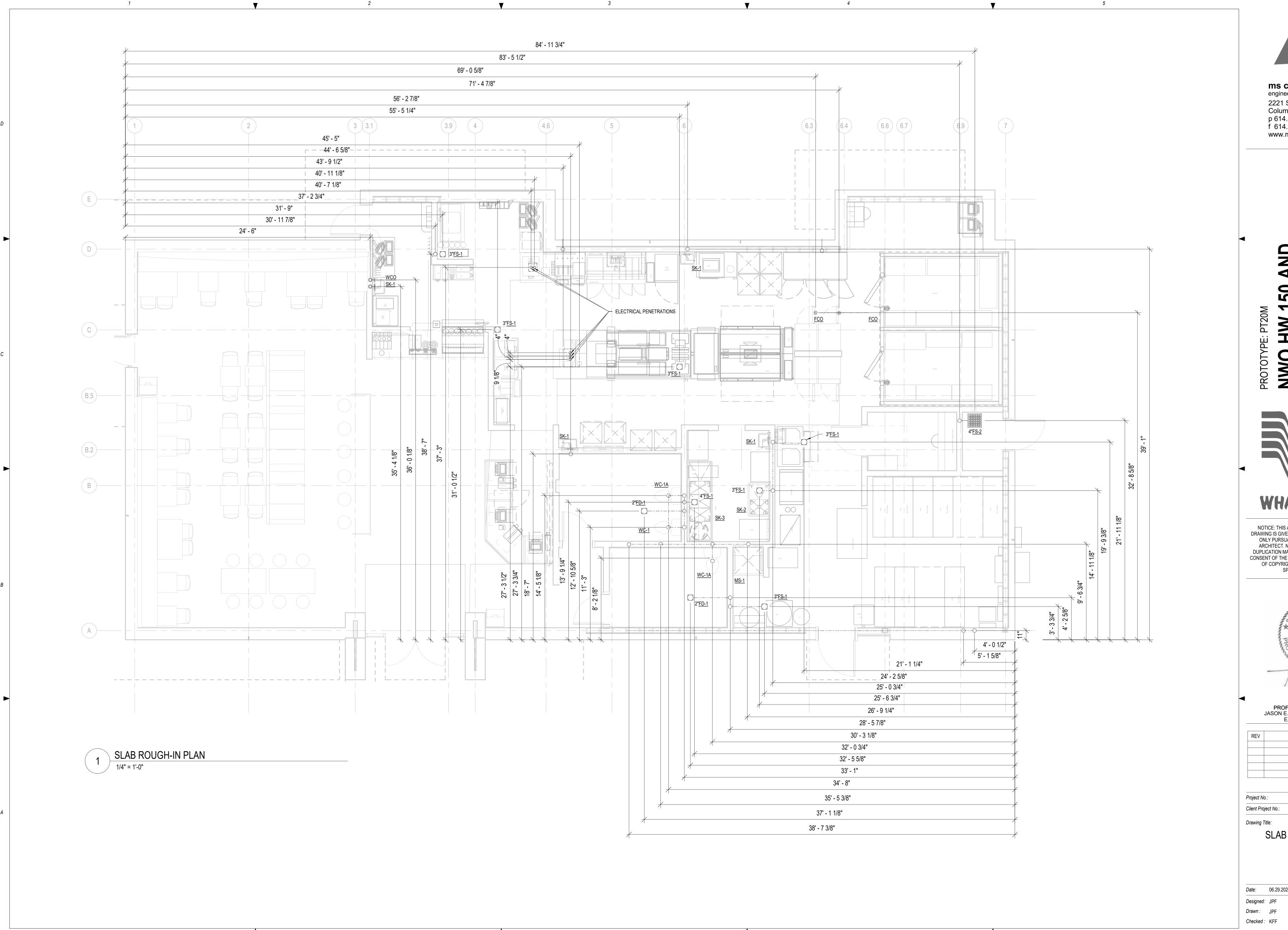
Client Project No.:

Drawing Title: PLUMBING RISER DIAGRAMS

Date: 06.29.2022 Phase: PERMIT SET Designed: JPF

Drawn: JPF Checked: KFF

Drawing No.: P3.1



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HW 150 AND
WWOOD ST

NWQ HW HOLLYWC



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08/31/20 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/2022

	REV	DESCRIPTION	DATE

Project No.: 62-40497-21

Client Project No.:

SLAB ROUGH-IN PLAN

 Date:
 06.29.2022
 Phase:
 PERMIT SET

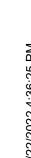
 Designed:
 JPF
 Drawing No.:

 Drawn:
 JPF

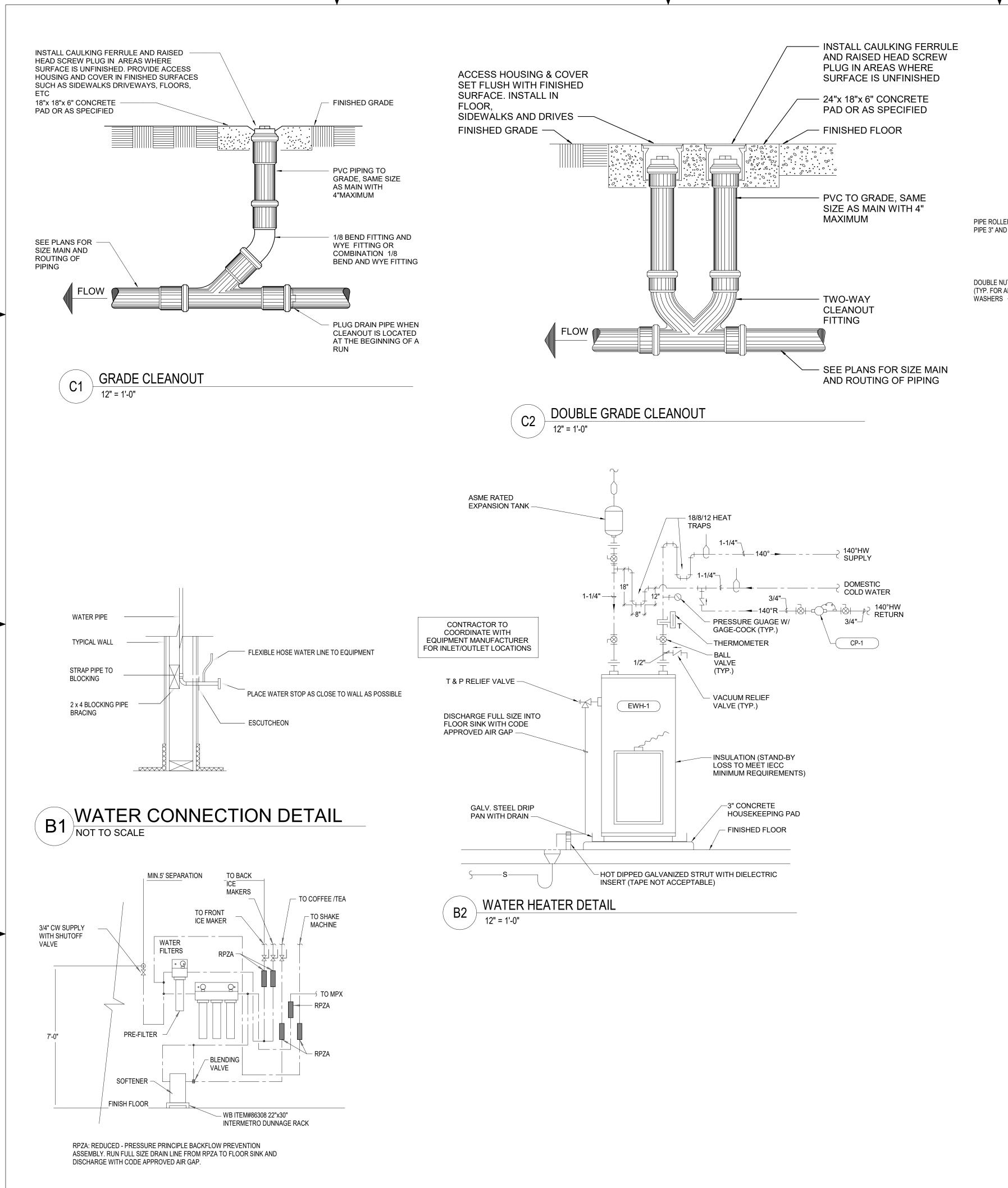
PF P3

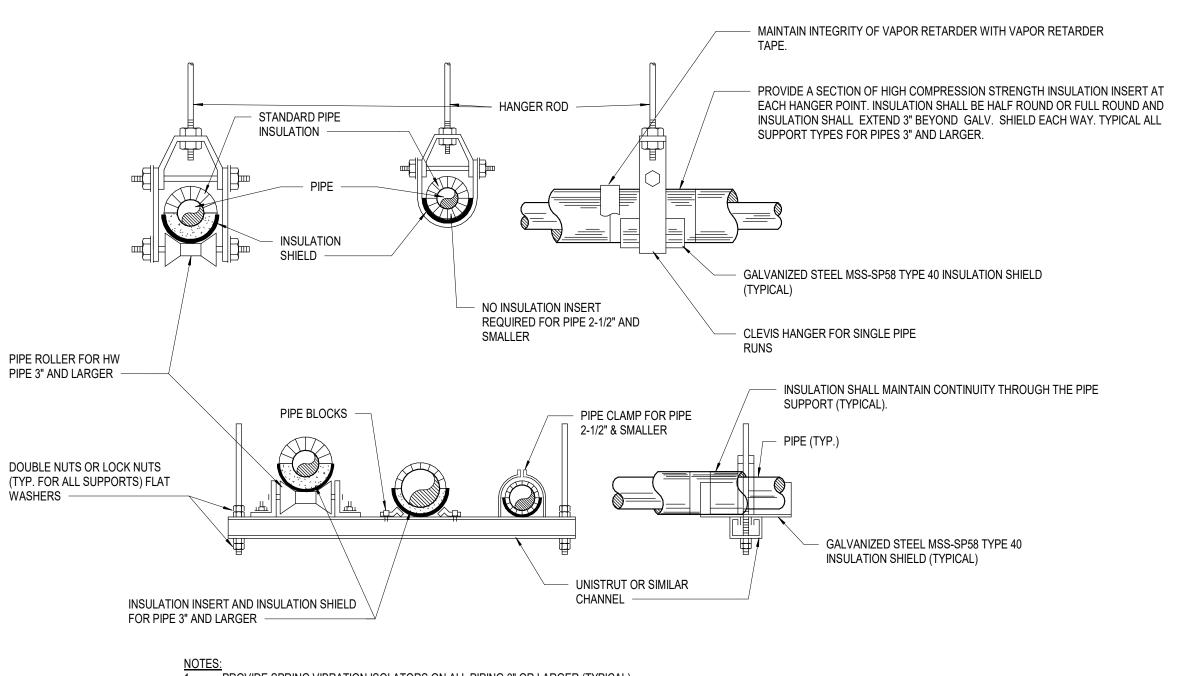
P3.2





DRINK FILTER ELEVATION





PROVIDE SPRING VIBRATION ISOLATORS ON ALL PIPING 3" OR LARGER (TYPICAL). INSULATION INSERT LENGTH SHALL BE 6" LONGER THAN INSULATION SHIELD. INSULATION SYSTEM SHALL MAINTAIN CONTINUITY OF THERMAL INSULATION, VAPOR RETARDER, AND SPECIFIED JACKETING THROUGH

PIPE SUPPORT DETAIL

ALL PIPE SUPPORTS.



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PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/2022

REV	DESCRIPTION	DATE

62-40497-21 Project No.: Client Project No.:

Drawing Title:

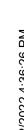
PLUMBING DETAILS

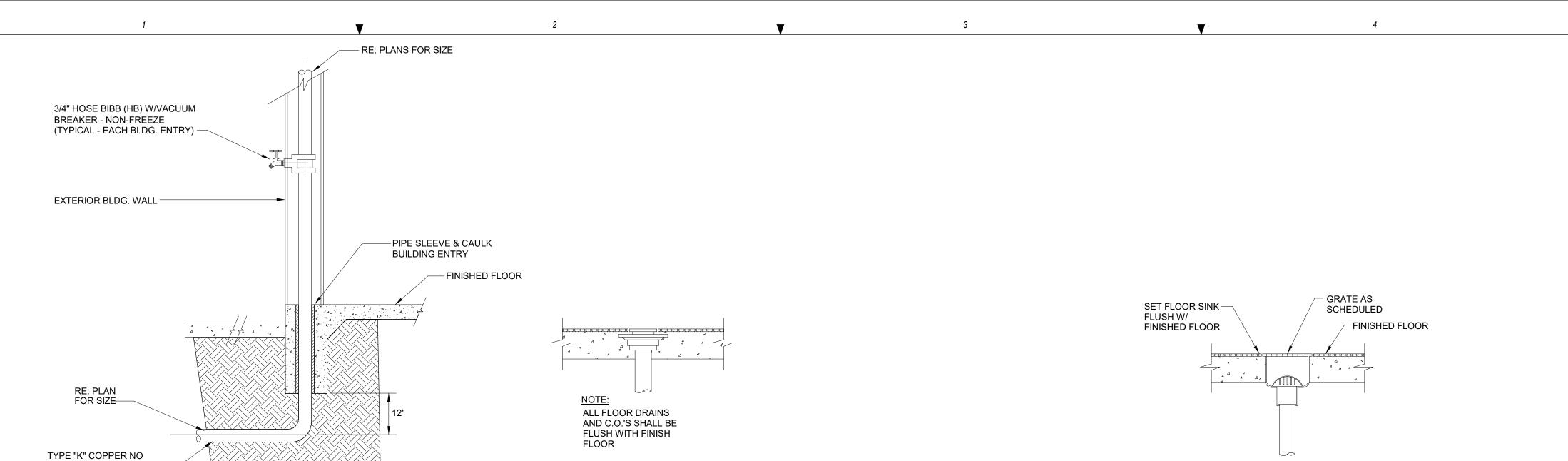
Phase: PERMIT SET Date: 06.29.2022 Designed: JPF Drawing No.: Drawn: JPF

Checked: KFF

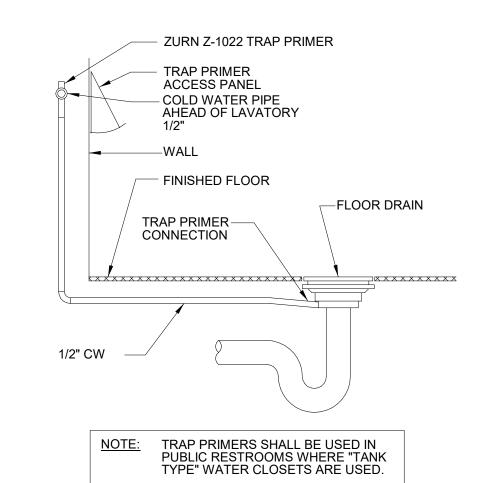
P4.1



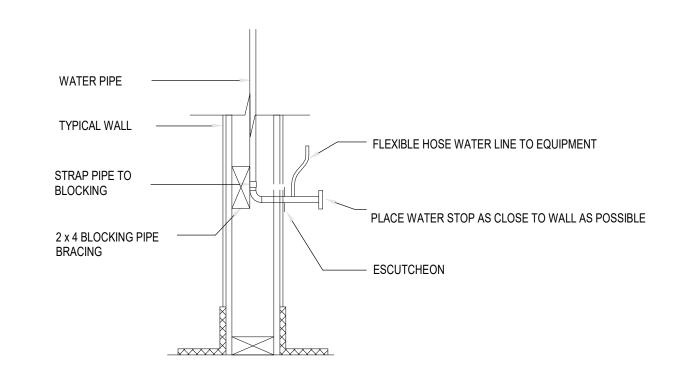








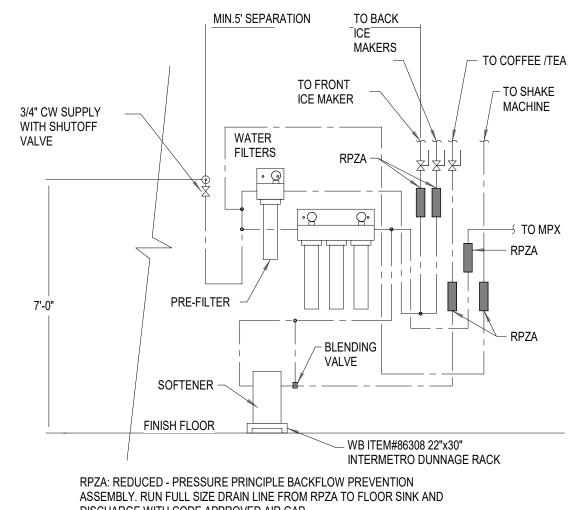
TRAP PRIMER DETAIL



DOMESTIC WATER ENTRY DETAIL

# WATER CONNECTION DETAIL

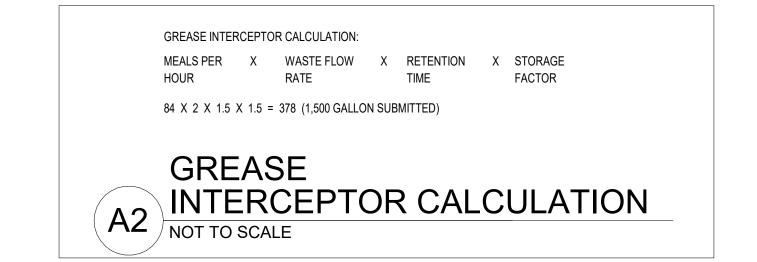
JOINTS BELOW CONCRETE

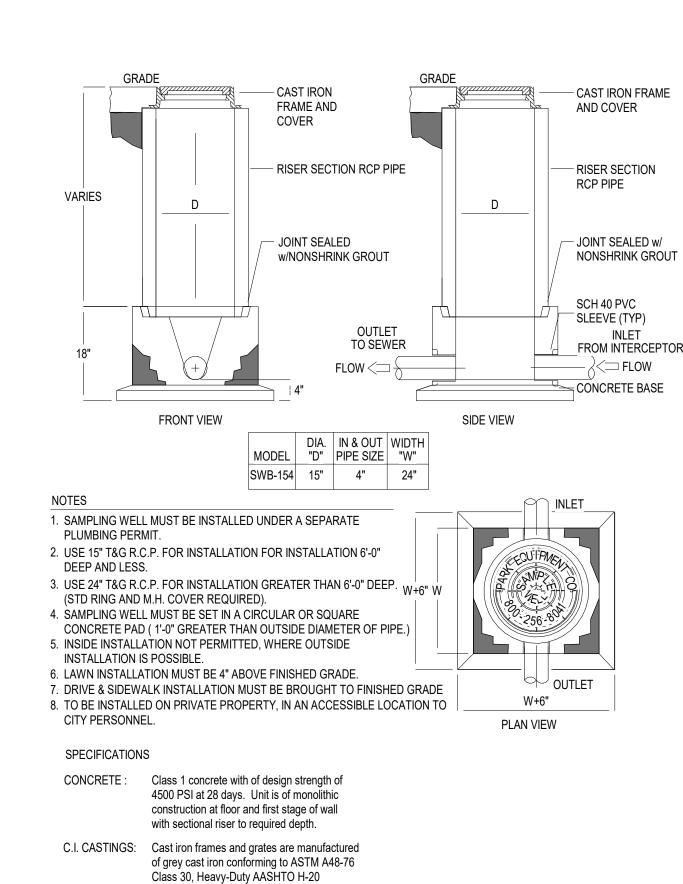


DISCHARGE WITH CODE APPROVED AIR GAP. CONTACT: MARK CROCKER WITH COCA COLA OFFICE: 469-467-8905

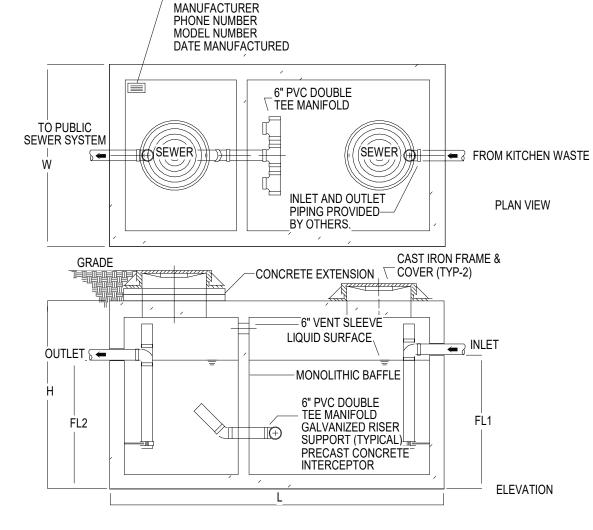
DRINK FILTER ELEVATION NOT TO SCALE

CELL: 214-789-8228





SAMPLE WELL



- NAMEPLATE INDICATING:

GREASE INTERCEPTOR SCHEDULE | MODEL CAPACITY | GREASE | EMPTY | LENGTH | WIDTH | HEIGHT | INLET | OUTLET | NO. USGal CAP. (LBS) WT (LBS) L W H FL1 FL2 GT-1500 1,500 3,500 16,050 9'-2" 5'-8" 7'-0" 5'-9" 5'-6" \*REFER TO DETAIL #A2 THIS SHEET FOR SIZE SELECTION

Engineering Data

Specifications CONCRETE: Class 1 concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor, first stage of wall and baffle with sectional riser to required depth. (Monolithic

to ASTM A615 on required centers or equal.

baffle required, slide-in type is not acceptable) REINFORCEMENT: Grade 60 reinforced with steel rebar conforming

C.I. CASTINGS: Manhole frames, covers or grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30. Manhole shall be nominal 24 inch diameter and be traffic duty.

in most cities. Consult with local authorities for specific application requirements. Shop drawings shall include complete structural & buoyancy calculations certified by a licensed professional engineer. Consult with manufacturer for exact excavation dimensions & shipping information.

The grease interceptor shall be structurally & hydraulically engineered to conform to regional plumbing codes recommended

GREASE INTERCEPTOR





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PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/2022

DESCRIPTION	DATE
	DESCRIPTION

Project No.: 62-40497-21 Client Project No.:

Drawing Title: PLUMBING DETAILS

Date: 06.29.2022 Phase: PERMIT SET Designed: JPF Drawing No.: Drawn: JPF Checked: KFF

MARK	SERVICE	LOCATION	TYPE	CAPACITY (GPM)	BOOST PRESSURE, PSI (FT HD)	MOTOR, VOLTAGE/PHASE/HP	MOTOR SPEED (RPM)	MANUFACTURER, MODEL
CP-1	DOMESTIC HW	UTILITY ROOM	IN-LINE	1	2	120/1/0.75	VARIABLE	GRUNDFOS ALPHA 2

## WATER HEATER SCHEDULE

MARK	LOCATION	SERVICE	STORAGE (GAL)	RECOVERY RATE @ 80° F RISE (GPH)	OPERATING TEMPERATURE, °F	INPUT (BTU / kW)	POWER VOLTAGE/PHASE	FUEL	MANUFACTURER, MODEL
EWH-1	UTILITY ROOM	DOMESTIC HOT WATER	120	51	140°	10 kW	208 / 3	ELEC	A.O. SMITH DEN 120

EXPANSION '	TANK SC	HEDULE
-------------	---------	--------

MARK	SERVICE	LOCATION	TOTAL TANK VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	MAX. PRESSURE (PSIG)		MANUFACTURER, MODEL	
			(GALLONS)	(GALLONS)	(F 31G)			
ET-1	WATER HEATER	PLUMBING ROOM	8		150	ELBI#DTS-30		

$MIXING\ VALV$	E SCHEDUL	E
----------------	-----------	---

MARK	FLOW (GPM)	LOCATION	DWH TEMP. IN	TEMP OUT (BLEND)	MANUFACTURER, MODEL
TMV-1	0.5-2.2	LAV/SINK	140° F	RE: PLBG FIX SCHD	WATTS #LFMMV-US-M1

## PLUMBING FIXTURE SCHEDULE

		CONNECTIONS						
MARK	DESCRIPTION	QUANTITY	WASTE	VENT	TRAP	DCW	DHW	MANUFACTURER, MODEL
WC-1	WATER CLOSET; 1.28 GPF, FLOOR-MOUNT, VITREOUS CHINA WITH EVERCLEAN SURFACE, PRESSURE-ASSISTED FLUSH TANK WITH LOCKING COVER.	1	4"	2"	INTEGRAL	1-1/4"	-	AMERICAN STANDARD
WC-1A	WATER CLOSET (ADA); 1.28 GPF, FLOOR-MOUNT, VITREOUS CHINA WITH EVERCLEAN SURFACE, PRESSURE-ASSISTED FLUSH TANK WITH LOCKING COVER.	2	4"	2"	INTEGRAL	1-1/4"	-	AMERICAN STANDARD
U-1A	URINAL; 0.125 GPF, WALL-HUNG, VITREOUS CHINA WITH EVERCLEAN SURFACE, EXPOSED, BATTERY POWERED ELECTRONIC SENSOR DIAPHRAGM FLUSH VALVE	1	2"	1-1/2"	INTEGRAL	3/4"	-	AMERICAN STANDARD "PINTBROOK" #6002.001, 6063.013,002
L-1A	LAVATORY; WALL-MOUNTED, VITREOUS CHINA, METERED, 1.5 GPM @ 10 SEC. CYCLE = 0.25 GAL/CYCLE,  HARD-WIRED ELECTRONIC SENSOR FAUCET, WITH ASSE-1070 MIXING VALVE	2	2"	1-1/2"	1-1/4"	3/4"	3/4"	AMERICAN STANDARD "LUCERNE" #0356.028, "INNSBROOK" #605B.202 #605XTMV1070 MIXING VALVE OPTION
MS-1	MOP SINK; FLOOR-MOUNTED, 36"x36"x12" TERRAZO MOP SINK WITH FRONT DROP AND RIM GUARD, WALL SHIELDS, SPRING-LOADED MOP HANGER AND HOSE WALL HOOP	1	3"	2"	3"	3/4"	3/4"	STERN WILLIAMS "HILOW" #2000, T-10-VB, T-35, T-40-BP
IMB-1	ICE MAKER BOX; WHITE POWDER COATED GALVANIZED STEEL WITH QUARTER TURN VALVE AND MINI ARRESTER.	-	-	-	-	3/4"	-	GUY GREY #MIB1HAAB
IMB-2	ICE MAKER BOX; WHITE POWDER COATED GALVANIZED STEEL WITH QUARTER TURN VALVE AND MINI ARRESTER. COORDINATE FINAL LOCATION WITH ARCHITECT.  PROVIDE DUAL CHECK VALVE (BFP-3) IN-LINE FOR CONNECTION TO COFFEE MAKER.	-	-	-	-	3/4"	-	GUY GREY #MIB1HAAB, WATTS #SD2
SK-1	HAND SINK; STAINLESS STEEL, PROVIDE WITH TMV-1 SET TO 105°F	4	2"	1-1/2"	1-1/4"	3/4"	3/4"	SINK SUPPLIED BY KITCHEN EQUIPMENT MANUFACTURER, T&S BRASS #B-1115 FAUCET SUPPLIED BY PLUMBER.
SK-2	1 COMPARTMENT SINK; STAINLESS STEEL, PROVIDE WITH TMV-1 SET TO 110°F	1	3"	2"	-	3/4"	3/4"	SINK SUPPLIED BY KITCHEN EQUIPMENT MANUFACTURER, T&S BRASS #B-023-CR FAUCET SUPPLIED BY WHATABURGER
SK-3	3 COMPARTMENT SINK; STAINLESS STEEL, PROVIDE WITH TMV-1 SET TO 110°F	1	3"	2"		3/4"	3/4"	SINK SUPPLIED BY KITCHEN EQUIPMENT MANUFACTURER, T&S BRASS #B-0156-CR FAUCET SUPPLIED BY WHATABURGER
WF-1	WALL MOUNTED FAUCET WITH 12" SWING SPOUT OUTLET, 8" CENTERS, CAST BRASS. PROVIDE WITH LEVER HANDLES (FOR SHAKE MACHINE)	1	-	-	-	1/2"	1/2"	T&S BRASS #B-0231-CR FAUCET WITH OOJJ STOPS SUPPLIED BY PLUMBER

GENERAL NOTES (PLUMBING FIXTURE SCHEDULE):

1. PLUMBER IS REQUIRED TO REGISTER ATTACHED WARRANTY REGISTRATION CARD FOLLOWING INSTALLATION CHECKOUT.

2. PLUMBER IS REQUIRED TO CONNECT TO ALL DRAINS SERVING KITCHEN EQUIPMENT AND EXTEND THEM TO THE FLOOR SINKS.

3. FURNISH AND INSTALL WATTS SERIES 8 VACUUM BREAKER ON ALL THREADED FAUCETS AND HOSE BIBBS SERVING CLEANING AND UTILITY USES.

# FLOOR DRAIN/SINK SCHEDULE

MARK	DESCRIPTION	SERVICE	GRATE DIMENSION	OUTLET DIAMETER	MANUFACTURER, MODEL
FD-1	FLOOR DRAIN; COATED CAST-IRON BODY WITH BOTTOM OUTLET, CLAMPING COLLAR, ADJUSTABLE COLLAR WITH SEEPAGE SLOTS, TRAP PRIMER	RESTROOMS,	6x6"	*	ZURN
	CONNECTION, AND POLISHED NICKEL-BRONZE, SQUARE HEEL-PROOF, HEAVY-DUTY GRATE.	GEN. SERVICE			ZN-415S-HD-P
FS-1	FLOOR SINK; 6" DEEP CAST-IRON BODY, MEDIUM-DUTY SLOTTED 1/2 GRATE, ANCHOR FLANGE, SEEPAGE HOLES, CLAMPING COLLAR,	KITCHEN,	8x8"	*	ZURN
	ANTI-SPLASH DOME STRAINER; WHITE ACID RESISTING PORCELAIN ENAMEL FINISH ON INTERIOR, GRATE, STRAINER, AND BUCKET.	EQUIPMENT			Z-1910-KC-2-25-33
FS-2	FLOOR SINK; ACID-RESISTANT EPOXY COATED CAST-IRON BODY WITH BOTTOM OUTLET, ANCHOR FLANGE, SECONDARY DOME STRAINER, TRAP SEAL PRIMER TAPPING, AND 1/2 TRACTOR GRATE.	WATER SOFTENER, CONDENSATE	12x12"	*	MIFAB F1480-7-11-20-FL-150

GENERAL NOTES (FLOOR DRAIN/SINK SCHEDULE):

1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2. ALL FLOOR DRAINS SHALL INCLUDE AN ANCHORING FLANGE AND PRIMER TAP.

3. INSULATE BODY, TAILPIECE AND P-TRAP OF ALL FLOOR DRAINS SERVING HVAC EQUIPMENT.

4. PROVIDE BARRIER TYPE TRAP SEAL PROTECTION EQUAL TO SURESEAL ON ALL FLOOR DRAINS/SINKS.

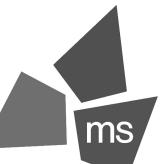
\* REFER TO FLOOR PLAN FOR PIPE SIZE.

# HYDRANT / HOSE BIBB SCHEDULE

MARK	DESCRIPTION	MANUFACTURER, MODEL
WH-1	WALL HYDRANT; NON-FREEZE ENCLOSED TYPE WITH FACEPLATE, AUTOMATIC DRAINING, ANTI-SIPHON VACUUM	WOODFORD
	BREAKER, 3/4" THREADED INLETS, AND LOOSE TEE OPERATING KEY.	B65-CH
RH-1	ROOF HYDRANT; NON-FREEZE PEDESTAL TYPE, AUTOMATIC DRAINING, ANTI-SIPHON VACUUM	WOODFORD
	BREAKER, 3/4" THREADED INLETS, AND LOOSE TEE OPERATING KEY.	RHY2-MS
HB-1	HOSE BIBB; ENCLOSED TYPE, POLISHED CHROME FINISH, ANTI-SIPHON, VACUUM BREAKER, LOOSE TEE KEY,	WOODFORD
	METAL WHEEL HANDLE, 3/4" INLET.	B24P-PC

# BACKFLOW PREVENTER SCHEDULE

MARK	DESCRIPTION	SIZE	LOCATION/SERVICE	MANUFACTURER, MODEL
BFP-1	DUAL CHECK VALVE BACKFLOW PREVENTER WITH VACUUM BREAKER, RELIEF VENT, AND Y-STRAINER	1/2"	ICE MAKERS	WATTS #007
BFP-2	DUAL CHECK VALVE BACKFLOW PREVENTER	1/2"	COFFEE MAKERS	WATTS #SD2



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04/12/19 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/2022

	REV	DESCRIPTION	DATE

Project No.: 62-40497-21

Client Project No.:

PLUMBING SCHEDULES

Date: 06.29.2022 Phase: PERMIT SET Designed: JPF Drawing No.:

SIDEWALL REGISTER TAP WITH DAMPER

**MECHANICAL SYMBOLS** 

IRON PIPE SIZE

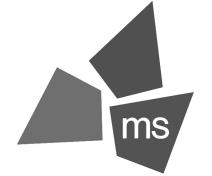
KITCHEN HOOD

KILOWATT

KW

THERMAL CONDUCTIVITY

(SOME SYMBOLS MAY NOT BE USED ON THE DRAWINGS)



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PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/22

REV	DESCRIPTION	DATE

62-40497-21 Project No.: Client Project No.:

Drawing Title:

GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

06.29.2022 PERMIT SET Date: Phase: Designed: JPF Drawing No.: Drawn: JPF Checked: KFF

- 1 ELECTRIC UNIT HEATER. RE:B2/M5.2.
- 2 SUPPLY AIR DIFFUSER (TYP.), RE: B2/M5.1. 3 SUPPLY AIR SLOT DIFFUSER, RE: A3/M5.1.
- 4 2'X2' LOCKABLE ACCESS DOOR IN HARD CEILING FOR ACCESS TO BATHROOM EXHAUST DAMPERS.
- 5 CONNECT KITCHEN EXHAUST HOOD ABOVE FRYER UP TO KEF-2 WITH 12" DIA. PRE-FABRICATED UL 1978 LISTED AND LABELED GREASE DUCT. PROVIDE TRANSITIONS AS REQUIRED.
- 6 CONNECT KITCHEN EXHAUST HOOD ABOVE GRILLS UP TO KEF-1 WITH 16" DIA. PRE-FABRICATED UL 1978 LISTED AND LABELED GREASE DUCT. PROVIDE TRANSITIONS AS REQUIRED.

DRIVE THRU AREA #1 116

TO RTU-1

FREEZER 115

COOLER 114

112

DRY STORAGE

- 7 EMERSON SITE SUPERVISOR DISPLAY AND CONTROLLER PANEL. RECESSED MOUNTED IN WALL.
- 8 2" CONDENSATE DRAIN DOWN WALL. DISCHARGE INTO FLOOR SINK.
- 9 2" CONDENSATE DRAIN PIPING DOWN FROM ROOF.
- 11 32/39 SUPPLY DUCT UP TO RTU-1.

20"/ 28"

8"\8"

10"ø

10"ø

12"ø

110

H10 500

- 12 25/36 SUPPLY DUCT UP TO RTU-2/RTU-3. 13 45/14 RETURN DUCT UP TO RTU-2/RTU-3.
- 10 50/20 RETURN DUCT UP TO RTU-1.

- **GENERAL NOTES**
- A. REFER TO M0.1 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- SMOKE DETECTORS SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR AND INSTALLED IN THE SUPPLY AND RETURN SIDES OF RTU. COORDINATE WIRING FOR SHUTDOWN WITH ELECTRICAL SCOPE. MOUNT SMOKE DETECTORS IN ACCESSIBLE LOCATIONS. REFERENCE M6.1 FOR RTU SCHEDULE. ACTIVATION OF SMOKE DETECTORS SHALL SHUT DOWN RTU AND ACTIVATE THE AUDIBLE AND VISUAL SIGNAL PROVIDED.
- THE EMERSON SITE SUPERVISOR DISPLAY AND CONTROLLER PANEL SHALL BE MOUNTED AND INSTALLED FLUSH IN THE MANAGER'S OFFICE AT 5' AFF TO CENTER.
- D. PER IECC 2018, PARAGRAPH C408.2.1, A THIRD PARTY SHALL BE HIRED BY THE OWNER AS PART OF THIS PROJECT TO PROVIDE/PERFORM THE FOLLOWING ITEMS:
  - A NARRATIVE DESCRIPTION OF THE ACTIVITIES THAT WILL BE ACCOMPLISHED DURING EACH PHASE OF COMMISSIONING, INCLUDING THE PERSONNEL INTENDED TO ACCOMPLISH EACH OF THE ACTIVITES.
  - A LISTING OF THE SPECIFIC EQUIPMENT, APPLIANCES OR SYSTEMS TO BE TESTED AND A DESCRIPTION OF THE TESTS TO BE PERFORMED.
- FUNCTIONS TO BE TESTED INCLUDING, BUT NOT LIMITED TO, CALIBRATIONS AND ECONOMIZER
- CONDITIONS UNDER WHICH THE TEST WILL BE PERFORMED. TESTING SHALL AFFIRM WINTER AND SUMMER DESIGN CONDITIONS AND FULL OUTSIDE AIR CONDITIONS.
- MEASURABLE CRITERIA FOR PERFORMANCE.
- KITCHEN HOODS, ANSUL FIRE SUPPRESSION SYSTEM AND HOOD CONTROLS SHALL BE OWNER-FURNISHED AND CONTRACTOR-INSTALLED.



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Project No.: 62-40497-21

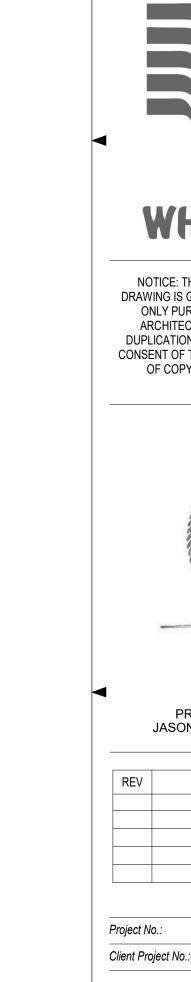
Drawing Title:

MECHANICAL FLOOR PLAN

Date: 06.29.2022 Drawing No.:

Designed: JPF Drawn: JPF

Checked: KFF



**MECHANICAL FLOOR PLAN - LEVEL 1** 1/4" = 1'-0"

P3 285

(TYP. 7)

(TYP. 2)

22"/ 14"

DINING ROOM

( A4 ) 325

10"ø

TO RTU-2

SERVING AREA

( D )

(B.5)

P3 250



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04/12/19 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF №.2012002143 EXP DATE: 12/31/22

REV	DESCRIPTION	DATE
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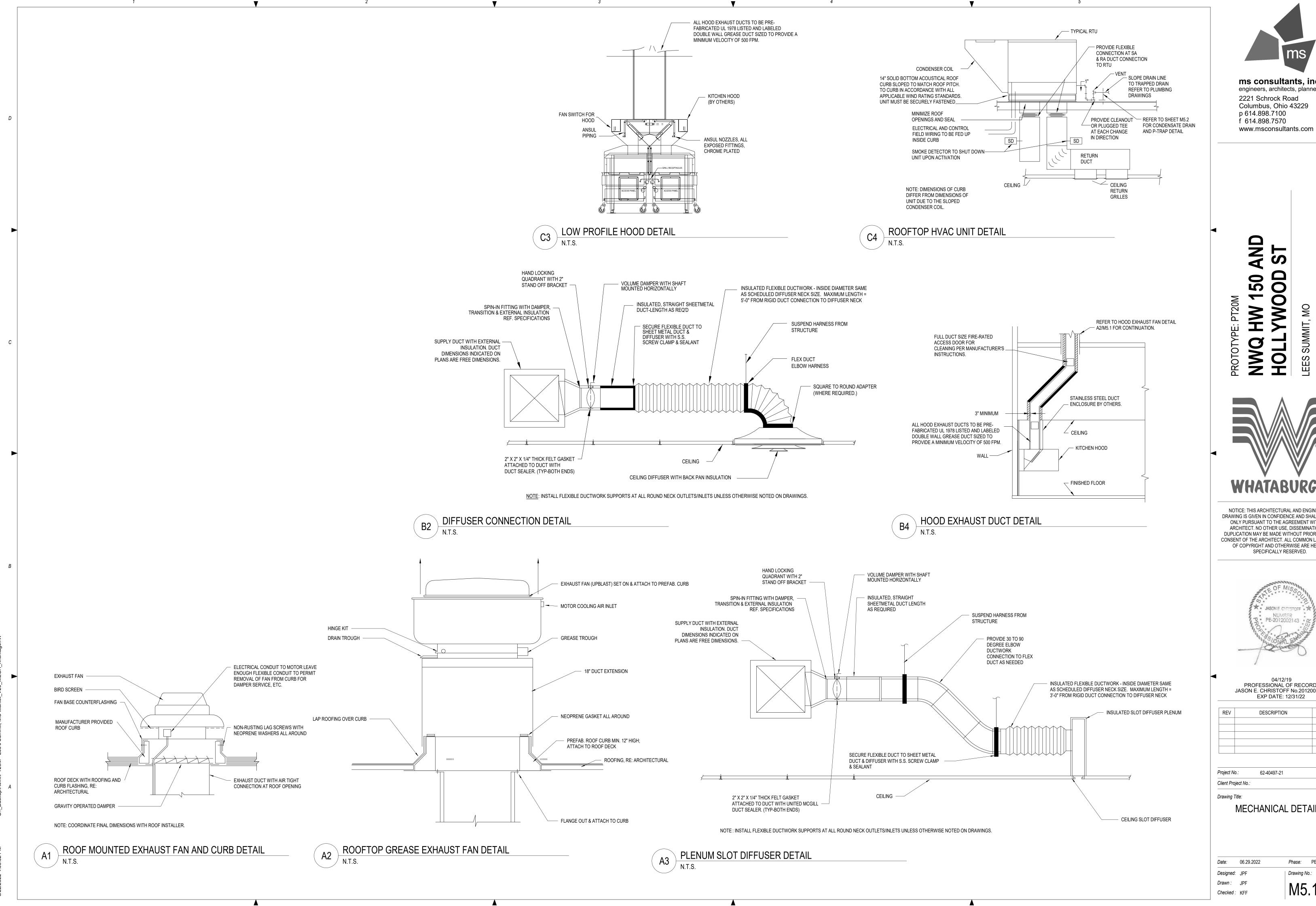
Project No.: 62-40497-21

Client Project No.:

Drawing Title:

MECHANICAL ROOF PLAN

Date: 06.29.2022 Designed: JPF



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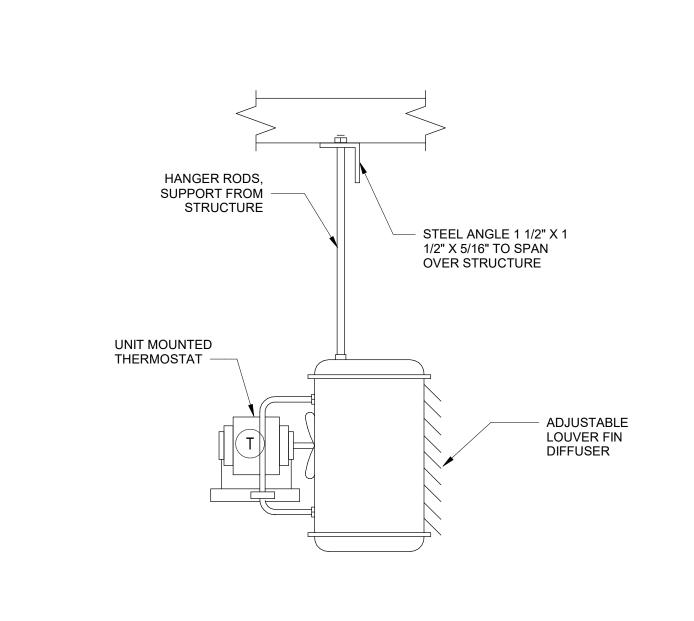


04/12/19 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/22

	REV	DESCRIPTION	DATE

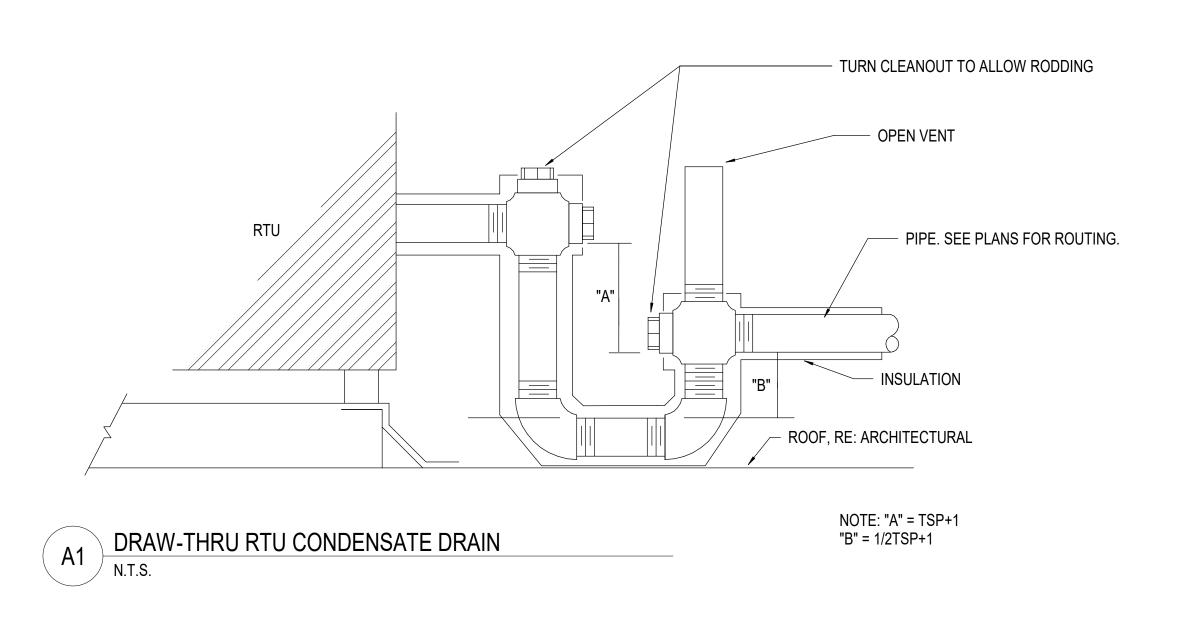
MECHANICAL DETAILS

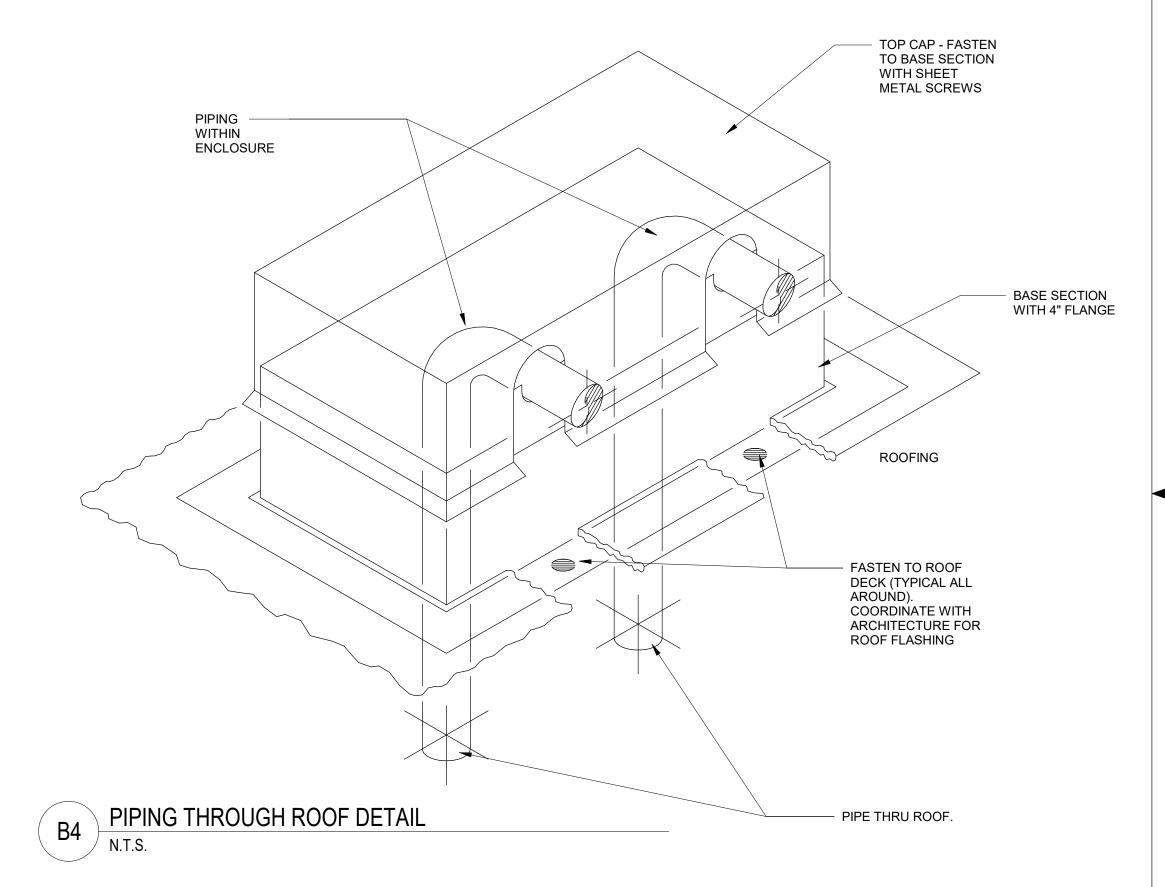
Date:	06.29.2022	Phase:	PERMIT SET
Designed:	JPF	Drawing N	o. <i>:</i>
Drawn:	JPF	NAG	1
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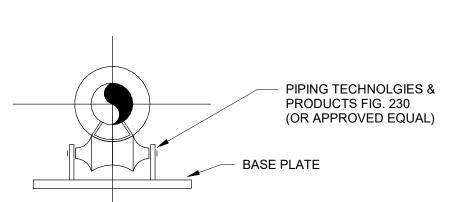


ELECTRIC UNIT HEATER

N.T.S.







PIPE SUPPORT ROLLER STAND
N.T.S.



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AND 50

HOLL



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01/16/20 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/22

REV	DESCRIPTION	DATE

62-40497-21 Project No.: Client Project No.:

Drawing Title: MECHANICAL DETAILS

Date:	06.29.2022	Phase:	PERMIT S
Designed:	JPF	Drawing No	). <i>.</i> :
Drawn :	JPF	N 1 5	<b>^</b>

Checked: KFF

M5.2

											177			DOLL														
									FAN					CC	OOLING					HEATING								
Mark	SERVES	MANUFACTURER	MODEL	REFRIGERANT	AIR FLOW	AIR FLOW VENTILATION	MOTOR HP	QUANTITY FANS	DRIVE TYPE	RPM	ESP (IN W.C.)	TSP (IN W.C.)	TOTAL CAPACITY (MBH)	CAPACITY SENSIBLE (MBH)	EAT DB	EAT WB	LAT DB	LAT WB	TOTAL CAPACITY (BTU/HR)	EAT (°F)	MAX LAT (°F)	EER	VOLTAGE	PHASE	MCA	MOCP	WEIGHT (LB)	NOTES
RTU-1	KITCHEN	Aaon, Inc.	RN-020-8-0-BB02-169	R-410A	6000	1500	5	1	DIRECT	1170	1.00	1.75	224	159	77.4	64.4	51.9	50.9	205.1	53.6	86.7	12.2	208	3	188	225	2747	1,2,3,4,5,6,7,8,9,10,11,12
RTU-2	DINING	Aaon, Inc.	RN-013-8-0-BB02-139	R-410A	4000	1300	3	1	DIRECT	1760	1.00	1.60	153	103	77.7	65.5	52.9	52.0	154.0	48.7	85.9	12.3	208	3	170	175	1896	1,2,3,4,5,6,7,8,9,10,11,12
RTU-3	DINING	Aaon, Inc.	RN-013-8-0-BB02-139	R-410A	4000	1300	3	1	DIRECT	1760	1.00	1.60	153	103	77.7	65.5	52.9	52.0	154.0	48.7	85.9	12.3	208	3	170	175	1896	1,2,3,4,5,6,7,8,9,10,11,12

PROVIDE WITH PREMIUM EFFICIENCY MOTORS IN ACCORDANCE WITH NEMA MG-1.
PROVIDE WITH SUPPLY AND RETURN SMOKE DETECTORS TO SHUT DOWN UNIT UPON SMOKE DETECTION.
PROVIDE WITHOUT CONTROLS.
SIZE AND SELECT ROOFTOP UNITS BASED ON 0.4% DEHUMIDIFICATION DESIGN DAY CONDITIONS OF 82.0°F DB, 75.6°F DEWPOINT.
PROVIDE HOT GAS REHEAT.

PROVIDE NOT GAS REHEAT.

PROVIDE CONSTANT VOLUME PACKAGE.

PROVIDE MODULATING OUTSIDE AIR DAMPER.

PROVIDE ULTRA LOW LEAKAGE ECONOMIZER WITH BAROMETRIC RELIEF DAMPER, AND FAULT DETECTION AND DIAGNOSTIC.

PROVIDE FACTORY MOUNTED AND WIRED CONDENSATE OVERFLOW SWITCH.

PROVIDE FACTORY INTERNAL UNIT DISCONNECT.

PROVIDE GFCI CONVENIENCE OUTLET. 12. PROVIDE HAIL GUARDS.

				E	XHAUS	ST FA	N SCH	EDUL	.E				
TAG	TYPE	MANUFACTURER	MODEL	AIR FLOW	TSP (IN W.C.)	RPM	BHP	HP	DRIVE TYPE	VOLTAGE	PHASE	WEIGHT (LBS.)	NOTES
EF-1	ROOF-MOUNTED CENTRIFUGAL DOWNBLAST	GREENHECK	G-095-D	300 CFM	0.50	1550	0.05	0.13	DIRECT	120	1	28	1,2
KEF-1	ROOF-MOUNTED CENTRIFUGAL UPBLAST	GREENHECK	CUBE-161HP-10	1913 CFM	0.75	1351	0.57	1.00	BELT	208	1	76	2,3,4,6
KEE-2	POOE-MOUNTED CENTRIFUGAL LIDRI AST	CREENHECK	CLIRE_121	1216 CEM	0.75	1/111	0.30	0.50	RELT	208	1	64	2356

NOTES:
1. PROVIDE INSULATED 12" ROOF CURB.
2. PROVIDE WITH INTEGRAL DISCONNECT SWITCH.

3. PROVIDE GREASE BOX.

4. PROVIDE INSULATED AND VENTED 26" SQUARE ROOF CURB.

5. PROVIDE INSULATED AND VENTED 22" SQUARE ROOF CURB.

6. PROVIDE HINGED ACCESS KIT.

				AIF	R DEV	ICE SCH	IEDUL	.E				
TAG	MANUFACTURER	MODEL	FACE SIZE	NECK SIZE (IN.)	MAX NC	PATTERN	MOUNTING	SLOT LENGTH	SLOT WIDTH	SLOT QTY	SYSTEM CLASSIFICATION	COMMENTS
A3	TITUS	TMS	24 X 24	6	30	4-WAY	LAY-IN	-	-	-	SUPPLY AIR	1
A4	TITUS	TMS	24 X 24	8	30	4-WAY	LAY-IN	-	-	-	SUPPLY AIR	1
A5	TITUS	TMS	24 X 24	10	30	4-WAY	LAY-IN	-	-	-	SUPPLY AIR	1
A6	TITUS	TMS	24 X 24	12	30	4-WAY	LAY-IN	-	-	-	SUPPLY AIR	1
В3	TITUS	TMS	24 X 24	6	30	4-WAY	FLANGE	-	-	-	SUPPLY AIR	1,2
C8	TITUS	50F	24 X 24	18 X 18	30	4-WAY	LAY-IN	-	-	-	RETURN AIR	
F1	TITUS	50F	12 X 12	6 X 6	30	4-WAY	FLANGE	-	-	-	EXHAUST AIR	2
H1	TITUS	TBDI-30	24 X 3-1/2	12	30	2-WAY	FLANGE	48	3/4	2	SUPPLY AIR	3
H10	TITUS	TBDI-80	60 X 7-1/2	12	30	2-WAY	FLANGE	60	1-1/2	3	SUPPLY AIR	3
L1	TITUS	FL-15-JT	SEE PLANS		30	1-WAY	FLANGE	CONTINUOUS	1-1/2	1		4
P1	TITUS	FBPI	48 X 3-1/2	8	30	-	FLANGE	60	-	-	SUPPLY AIR	3
P3	TITUS	FBPI	60 X 3-1/2	8	30	-	FLANGE	60	-	-	SUPPLY AIR	3

1. PROVIDE BACKPAN INSULATION.

2. PROVIDE PLASTER FRAME FOR MOUNTING IN GYP. CEILING.

4. CONTINUOUS LINEAR SLOT DIFFUSER TO BE INSTALLED IN GYP. CEILING. PROVIDE INSULATED SUPPLY AIR PLENUMS AS SCHEDULED FOR A COMPLETE SYSTEM.

	ELEC1	TRIC UN	IT HEATER	SCHED	ULE	
TAG	MANUFACTURER	MODEL	HEATING TOTAL CAPACITY (BTU/HR.)	VOLTAGE	PHASE	WEIGHT (LB.)
UH-1	REZNOR	EGW	5118	208 V	1	20

## **AIR BALANCE AND VENTILATION CALCULATION:**

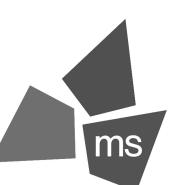
TOTAL OUTSIDE AIR INTAKE = 4100 CFM

TOTAL GREASE HOOD EXHAUST = 3129 CFM TOTAL RESTROOM EXHAUST = 300 CFM

OUTSIDE AIRFLOW - (GREASE HOOD EXHAUST AIRFLOW + RESTROOM EXHAUST AIRFLOW) = NET POSITIVE AIRFLOW

4100 CFM - (3129 + 300) = 671 CFM

ASHRAE 62.1 VENTILATION AIRFLOW REQUIRED = 1442 CFM IMC 2018 VENTILATION AIRFLOW REQUIRED = 1442 CFM



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04/12/19 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/22

REV	DESCRIPTION	DATE

Project No.: 62-40497-21

Client Project No.:

MECHANICAL SCHEDULES

PERMIT SET Date: 06.29.2022 Designed: JPF Drawing No.:

Drawn: JPF

Checked: KFF



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SUPPLY AIR



PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/22

REV	DESCRIPTION	DATE

62-40497-21 Project No.: Client Project No.:

Drawing Title:

MECHANICAL CONTROLS

Phase: PERMIT SET

Designed: JPF Drawing No.:

Drawn: JPF Checked: KFF

Date: 06.29.2022

PACKAGED ROOFTOP UNIT CONTROLS DIAGRAM

CONDITION OR DEHUMIDIFY THE SPACE AS NEEDED.

BASED ON THE RTU INTERNAL CONTROLS, THE RDC SHALL VARY THE OUTSIDE AIR DAMPER

POSTION, BASED ON CALL FOR COOLING IN THE SPACE. THERE SHALL BE ONE FAN SPEED. THE

RDC SHALL LOAD AND UNLOAD COMPRESSORS BASED ON THE UNIT INTERNAL CONTROLS TO

STARTER

ANY TROUBLE ALARM OR FAULT WITHIN THE UNIT ONBOARD CONTROLS WILL GENERATE A

GENERAL ALARM TO THE BMS.

F1 TYPICAL LUMINAIRE DESIGNATIONS		TYPICAL RECEPTACLE CIRCUIT DESIGNATION	AV	RECESSED WALL BOX WITH AUDIO/VISUAL / DATA / POWER RECEPTACLES.	$\langle \leftarrow \Box \rightarrow \rangle$	DRAWOUT CIRCUIT BREAKER OVER 600V		<b>-</b> X-	THERMAL OVERLOADS	
(F1) INDICATES LUMINAIRE TYPE. REFER TO LUMINAIRE  a RP5-7 SCHEDULE FOR DESCRIPTION. (RP5) INDICATES PANEL DESIGNATION, (7) INDICATES CIRCUIT BREAKER NUMBER.	<b>⊕</b> RP5:7	(RP5) INDICATES PANEL DESIGNATION, (7) INDICATES CIRCUIT BREAKER NUMBER. PROVIDE 20A/1P AND 2#12 FOR EACH CIRCUIT NUMBER & 1#12G, IN 3/4 " CONDUIT,		RECESSED FLOOR BOX WITH POWER AND COMMUNICATION RECEPTACLES.	$\langle \leftarrow \frown \rangle$	DRAWOUT CIRCUIT BREAKER	<b>-</b>		KEY INTERLOCK	
(a) INDICATES SWITCHING CIRCUIT ID.	14.5.7	UNLESS OTHERWISE NOTED OR SCHEDULED.	₩ ₩ AV	RECESSED FLOOR BOX WITH POWER, COMMUNICATION AND AUDIO/VISUAL RECEPTACLES.	$\langle\langle\Box\Box\rangle\rangle$	DRAWOUT FUSES	>		ELECTRIC INTERLOCK	
2'x2' LUMINAIRE	<b>+</b>	DUPLEX RECEPTACLE, 125V, 20A, 2P, 3W, NEMA 5-20R		HARD-WIRED CONNECTION		CIRCUIT BREAKER		SPD	SURGE PROTECTION DEVICE	
WALL MOUNTED LUMINIAIDE	uc	UNDER COUNTER, DUPLEX RECEPTACLE, 125V, 20A, 2P, 3W, NEMA 5-20R		JUNCTION BOX; WHIP TO BE HARDWIRED TO FURNITURE WIRING SYSTEM		FUSED DISCONNECT SWITCH		(AM)	AMMETER	
WALL MOUNTED LUMINAIRE	GFCI	DUPLEX RECEPTACLE, 125V, 20A, 2P, 3W, NEMA 5-20R, (GROUND FAULT CIRCUIT INTERRUPTER)		PANELBOARD		DISCONNECT SWITCH		AS	AMMETER SWITCH	-
	GFCI WP ⊕	DUPLEX RECEPTACLE, 125V, 20A, 2P, 3W, NEMA 5-20R, (GROUND FAULT CIRCUIT INTERRUPTER WITH IN USE COVER)		DISTRIBUTION/POWER PANEL	$\langle \leftarrow \Box \rightarrow \rangle$	FUSED DRAWOUT CIRCUIT BREAKER		(VM)	VOLTMETER	
CEILING MOUNTED LUMINAIRE	0	SINGLE RECEPTACLE, 125V, 20A, 2P, 3W, NEMA 5-20R	$\bigcirc$	MOTOR CONNECTION		FUSE		VS	VOLTMETER SWITCH	
ф ————————————————————————————————————		SINGLE RECEPTACLE, 125V, 20A, 2P, 3W, NEMA 5-15R	\$	SINGLE POLE SWITCH, 20A, 120-277VAC	$\dashv$	CONTACT		(WM)	WATTMETER	
INDUSTRIAL TYPE LUMINAIRE	<b>+</b>	QUADRAPLEX RECEPTACLE, 125V, 20A, 2P, 3W NEMA 5-20R	\$ <sub>X</sub>	"X" REFER TO SWITCH NOTES	(50N 51N	RELAY SEE RELAY SCHEDULE ON COVER SHEET 2.		(KWH)	KILOWATT-HOUR METER WITH 15 MIN. DEMAND REGISTER	
PENDANT MOUNTED LUMINAIRE	UC	UNDER COUNTER, ISOLATED GROUND RECEPTACLE, 125V, 20A, 2P, 3W, NEMA 5-20R		DISCONNECT SWITCH		POWER TRANSFORMER WITH VOLTAGES AS INDICATED		KVH	KILOVAR HOUR METER	
	*	DUPLEX RECEPTACLE, MOUNTED 6" (0.15m) ABOVE COUNTER OR BACKSPLASH,125V, 20A, 2P, 3W, NEMA 5-20R		FUSED DISCONNECT SWITCH	<u> </u>	SHIELDED K RATED POWER TRANSFORMER WITH VOLTAGES AS INDICATED		PF	POWER FACTOR METER	
LUMINAIRE POWERED BY EMERGENCY SOURCE (TYPICAL)	FPD ⊕	DUPLEX RECEPTACLE, MOUNTED FOR FLAT PANEL DISPLAY; MOUNT AT APPROXIMATELY 66"; COORDINATE EXACT HEIGHT DISPLAY		COMBINATION MAGNETIC MOTOR STARTER	$\langle \leftarrow \stackrel{\mathtt{Ol}}{\longrightarrow} \rangle$	DRAWOUT CIRCUIT BREAKER, ELECTRIC OPERATED.		ТВ	TERMINAL BLOCK	
	⊗-	SPECIAL PURPOSE RECEPTACLE, COORDINATE NEMA CONFIGURATION WITH EQUPMENT	СВ	ENCLOSED CIRCUIT BREAKER		CIRCUIT BREAKER, ELECTRIC OPERATED.		CS	CONTROL SWITCH	
LUMINAIRE, POLE MOUNTED	0	CEILING MOUNTED DUPLEX RECEPTACLE, 120V, 20A, 2P, 3W, NEMA 5-20R	VFD	VARIABLE FREQUENCY DRIVE	E0			M	MULTIFUNCTION METER AS SPECIFIED.	
C LUMINAIRE, BALLARD	PRJ⊖	CEILING MOUNTED DUPLEX RECEPTACLE, 120V, 20A, FOR PROJECTOR. COORDINATE WITH EQUPMENT	8	EMERGENCY POWER OFF		FUSED DISCONNECT SWITCH, ELECTRIC OPERATED.		=	BATTERY	
☐ LUMINAIRE, FLOOD LIGHT		BENCH TOP PEDESTAL OUTLET, SINGLE FACE, RECEPTACLE TYPE AS INDICATED	T1	TRANSFORMER, (SEE TRANSFORMER SCHEDULE ON COVER SHEET 2)		OURDENIT TRANSFORMED QUANTITY AND DATIO		A	FEEDER CONNECTION REFERENCE	
WALL MOUNTED EXIT SIGN, SHADED AREAS INDICATE NUMBER OF FACES,	0-0-0	BENCH TOP PEDESTAL OUTLET, DOUBLE FACE, RECEPTACLE TYPE AS INDICATED	•	ONE PUSHBUTTON STATION	400/5	CURRENT TRANSFORMER, QUANTITY AND RATIO AS INDICATED.			COMMUNICATION SYMBOLS	
DIRECTION ARROWS AS INDICATED  CEILING MTD. EXIT SIGN, SHADED AREAS INDICATE NUMBER OF FACES,	P	FLUSH POKE-THROUGH FOR POWER FEEDS. POWER FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.	•	START STOP PUSHBUTTON	50/5	GROUND CURRENT, ZERO SEQUENCE TYPE TRANSFORMER. RATIO AS INDICATED.	2(4)(6	DOUBLE GANG B	OX WITH (TWO) (FOUR) (SIX) JACKS OX WITH SINGLE GANG REDUCER ESSIBLE CEILING AREA	
DIRECTION ARROWS AS INDICATED	T	FLUSH POKE-THROUGH FOR COMMUNICATION FEEDS. COMMUNICATION FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.	•	RAISE-LOWER PUSHBUTTON WITH CENTER STOP	$\longrightarrow$ $\subseteq$ 1	POTENTIAL TRANSFORMER, QUANTITY AS INDICATED.	2(4)(0	COMBINATION VC DOUBLE GANG B	DICE/DATA OUTLET  DX WITH SINGLE GANG REDUCER ESSIBLE CEILING AREA	
EMERGENCY BATTERY UNIT LUMINAIRE	(AV)	FLUSH POKE-THROUGH FOR AUDIO/VISUAL FEEDS. AUDIO/VIDEO FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.		PUSH-PLATE FOR AUTOMATIC DOOR	$\langle \longleftrightarrow \succeq_{1} \Longrightarrow \rangle$	DRAWOUT POTENTIAL TRANSFORMER, QUANTITY AS INDICATED.	<b></b> ■ W	SINGLE GANG BO	OX WITH WALL PHONE PLATE CCESSIBLE CEILING AREA.	
© CONTROL COIL  (P) PHOTO CELL	PT	FLUSH POKE-THROUGH FOR POWER AND COMMUNICATION FEEDS. POWER AND COMMUNICATION FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.	PP PP	POWER POLE; WHIP TO BE HARDWIRED TO FURNITURE WIRING SYSTEM	1	LIGHTNING ARRESTOR	<b></b>	CEILING MOUNTE	ED VOICE/DATA RECEPTACLE	
	PT AV	FLUSH POKE-THROUGH FOR POWER, COMMUNICATION AND AUDIO/VISUAL FEEDS. POWER, COMMUNICATION AND AUDIO/VISUAL FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.	<b>⊕</b> •—	GROUND ROD	$\triangle$	TRANSFORMER CONNECTION DELTA-	<b>A</b>	VOICE/DATA REC	EPTACLE	
SWITCH SYMBOLS	P	FLUSH POKE-THROUGH WITH POWER RECEPTACLES.		GROUND BUS	=	RESISTANCE GROUNDED WYE	TP TP	TELECOMM POLE	; WHIP TO BE HARDWIRED TO FURNITURE WIRING SYSTEM	
\$ SINGLE POLE, LOW VOLTAGE SWITCH, 20A, 120-277VAC		FLUSH POKE-THROUGH WITH COMMUNICATION RECEPTACLES.		LIGHTNING PROTECTION THROUGH ROOF DOWN CONDUCTOR	$\wedge$	TRANSFORMER CONNECTION			SECURITY SYMBOLS	
\$ X "X" REFER TO SWITCH NOTES  SWITCH NOTES:	(AV)	FLUSH POKE-THROUGH WITH AUDIO/VISUAL RECEPTACLES.		LIGHTNING PROTECTION AIR TERMINAL		DELTA-GROUNDED WYE		CARD READER		
"a" = LOWER CASE LETTER INDICATES SWITCHING CIRCUIT ID "3" = THREE-WAY SWITCH 20A, 120-277VAC "4" = FOUR-WAY SWITCH 20A, 120-277VAC	PT	FLUSH POKE-THROUGH WITH POWER AND COMMUNICATION RECEPTACLES.		MULTI-OUTLET RACEWAY WITH RECEPTACLES EVERY 2 FT ON CENTER AND DATA OUTLETS EVERY 6 FT ON CENTER. TYPE AND CIRCUIT DESIGNATION AS INDICATED			DPS	DOOR POSTION	SWITCH	
"M" = MANUAL MOTOR STARTER SWITCH "MOL" = MANUAL MOTOR STARTER WITH THERMAL OVERLOADS "D" = DIMMER CONTROL	PT	FLUSH POKE-THROUGH WITH POWER, COMMUNICATION AND AUDIO/VISUAL RECEPTACLES.		WIRE/CONDUIT EXPOSED		STATIC BYPASS SWITCH	REX	REQUEST TO EX	T	
"D3" = THREE-WAY DIMMING SWITCH "D4" = FOUR-WAY DIMMING SWITCH "P" = SINGLE POLE SWITCH WITH PILOT LIGHT	P	RECESSED FLOOR BOX FOR POWER FEEDS. POWER FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.		WIRE/CONDUIT CONCEALED	GEN	GENERATOR		FIXED CCTV POE	CAMERA	
"K" = SINGLE POLE SWITCH (KEY-OPERATED) "T" = SINGLE POLE SWITCH WITH TIMER "3P" = THREE-POSITION SWITCH, CENTER-OFF, MOMENTARY CONTACT "OS" = OCCUPANCY/VACANCY SENSOR WALL SWITCH(IR) WITH MANUAL OVERRIDE	T	RECESSED FLOOR BOX FOR COMMUNICATION FEEDS. COMMUNICATION FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.		WIRE/CONDUIT CONCRETE ENCASED OR DIRECT BURIED	N <sub>O</sub> E		PTZ	PAN, TILT, ZOOM	CCTV POE CAMERA	
00 - 00001 ANOT/VAOANOT GENOOK WALE OWN ON (III) WITH MANDAL OVERNIBL	AV	RECESSED FLOOR BOX FOR AUDIO/VISUAL FEEDS. AUDIO/VISUAL FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.	G	GROUNDING CONDUCTOR, SIZE AS INDICATED.	L	AUTOMATIC TRANSFER SWITCH	180	180 OR 360 DEGF	REE CCTV POE CAMERA	
	PT	RECESSED FLOOR BOX FOR POWER AND COMMUNICATION FEEDS. POWER AND COMMUNICATION FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.	2W20	HOME RUN INDICATION WITH PANEL DESIGNATION (RP5), CIRCUIT No.(7)&(9), OVERCURRENT PROTECTION "AMPS AND POLES" (20/2) AND WIRE/CONDUIT DESIGNATION (2W20). SEE WIRE AND CONDUIT	ON OL OE	AUTOMATIC TRANSFER AND				
OS OCCUPANCY SENSOR MOUNTED IN CEILING	PT	RECESSED FLOOR BOX FOR POWER, COMMUNICATION AND AUDIO/VISUAL FEEDS. POWER, COMMUNICATION AND AUDIO/VISUAL FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.	(20/2) RP5:7,9	SIZE SCHEDULE. PROVIDE 20A/1P AND 2 #12 FOR EACH HOMERUN ARROW & 1 #12G IN 3/4 " CONDUIT, UNLESS OTHERWISE INDICATED. SEE GENERAL NOTE 1.		BYPASS ISOLATION SWITCH				<b>4</b>
OCCUPANCY SENSOR NOTES:  1. PLACE ULTRASONIC SENSORS 6'-0" AWAY FROM SUPPLY AND RETURN VENTS.	Φ	RECESSED FLOOR BOX WITH POWER RECEPTACLES.	— E—	UNDERGROUND DUCT BANK - ELECTRIC		PANELBOARD				
	<b>\sqrt</b>	RECESSED FLOOR BOX WITH COMMUNICATION RECEPTACLES.	— тс —	UNDERGROUND DUCT BANK - COMMUNICATION/DATA/TELEPHONE		TANEEDOAND				-
			M	MANHOLE	<u></u>	POWER FACTOR CORRECTION CAPACITOR				
			Н	HANDHOLE	·					
			1 MI CABLE,1/C	(1) MI CABLE, SINGLE CONDUCTOR						-   1
			1 MI CABLE,3/C	(1) MI CABLE, THREE CONDUCTOR						(
			3 MI CABLES,1/C	(3) MI CABLES, SINGLE CONDUCTOR EACH						
			XX	EQUIPMENT IDENTIFICATION TAGS						
										-

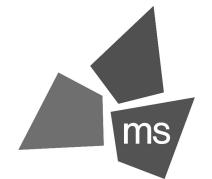
SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS

ELECTRICAL SYMBOLS

SINGLE LINE DIAGRAM SYMBOLS

RECEPTACLE SYMBOLS

LIGHTING SYMBOLS



GROUND CONNECTION

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01/17/19 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/22

	REV	DESCRIPTION	DATE

Project No.: 62-40497 - 21
Client Project No.:

Drawing Title:

ving Title:

ELECTRICAL SYMBOLS

 Date:
 06.29.2022
 Phase:
 PERMIT SET

 Designed:
 JPF
 Drawing No.:

Drawn: JPF
Checked: KFF

E0.

E0.1

**ABBREVIATIONS** 

A,AMP AC	AMPERE(S) ALTERNATING CURRENT	LT LTG	LONG TIME LIGHTING
AF	AMPERE FRAME (CIRCUIT BREAKER)	LP	LIGHTING PANEL
AFF	ABOVE FINISHED FLOOR	M	METER MILLIMETER
AFG AFU	ABOVE FINISHED GRADE  AMPERE FUSE	mm mm2	MILLIMETERS SQUARED
AHU	AIR HANDLING UNIT	MAX	MAXIMUM
AIC AL	AMPERE INTERRUPTING CAPACITY ALUMINUM	MCB MCC	MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER
AS	AMMETER SWITCH	MCCB	MOLDED CASE CIRCUIT BREAKER
AM	AMMETER	MDF	MAIN DISTRIBUTION FRAME
AT ATS	AMPERE TRIP (CIRCUIT BREAKER) AUTOMATIC TRANSFER SWITCH	MECH MFR	MECHANICAL MANUFACTURER
AUX	AUXILIARY	MH	MANHOLE
A/V	AUDIO VISUAL	MI MIN	MINERAL-INSULATED MINIMUM
AWG	AMERICAN WIRE GAUGE	MIC	MEDIA INTERFACE CONNECTOR
BAS BKR	BUILDING AUTOMATION SYSTEM BREAKER	MIN	MINIMUM
BLDG	BUILDING	MLO	MANUAL BUILL STATION
BP	BYPASS	MPS MTD	MANUAL PULL STATION MOUNTED
BSC C	BIOLOGICAL SAFETY CABINET CONDUCTOR	MTG	MOUNTING
C/ CDT	CONDUIT	MTS	MANUAL TRANSFER SWITCH MEDIUM VOLTAGE
CATV	CABLE TELEVISION	MV N	NEUTRAL/NORMAL
CB CCTV	CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION	NEC	NATIONAL ELECTRICAL CODE
CKT	CIRCUIT	NC	NORMALLY-CLOSED
CLG	CEILING	NIC NL	NOT IN CONTRACT NIGHT LIGHT
CO COAX	CONDUIT ONLY COAXIAL CABLE	NO	NORMALLY-OPEN / NUMBER
COL	COLUMN	NORM	NORMAL
COMM	COMMUNICATIONS	NTS NWP	NOT TO SCALE NETWORK PROTECTOR
CP CPT	CONTROL PANEL CONTROL POWER TRANSFORMER	NWP OCB	NETWORK PROTECTOR OIL CIRCUIT BREAKER
CPT CPU	CONTROL POWER TRANSFORMER CENTRAL PROCESSING UNIT	OL	OVERLOAD(S)
CR	CARD READER	OC OS	ON-CENTER OCCUPANCY SENSOR
CRT	CATHODE RAY TUBE MONITOR	Р	POLE
CS CU	CONTROL SWITCH COPPER	PA DB	PUBLIC ADDRESS SYSTEM
CUH	CABINET UNIT HEATER	PB PBX	PUSHBUTTON/PULLBOX PRIVATE BRANCH EXCHANGE
CT D	CURRENT TRANSFORMER DEPTH	PC	PHOTOCELL
DC	DIRECT CURRENT	PDU	POWER DISTRIBUTION UNIT
DDC	DIRECT DIGITAL CONTROL	PF PFCC	POWER FACTOR POWER FACTOR CORRECTION CAPACITOR
DEMO DIA	DEMOLITION DIAMETER	РН,ф	PHASE
DN	DOWN	PNL	PANEL
DISC	DISCONNECT	PP PR	POWER PANEL PAIR
DIST DWG	DISTRIBUTION DRAWING	PRI	PRIMARY
E E	ELECTRIC / EMERGENCY	PT	POTENTIAL TRANSFORMER
EC	ELECTRICAL CONTRACTOR, EMPTY CONDUIT	PVC PWR	POLYVINYLCHLORIDE POWER
ef El	EXHAUST FAN ELEVATION	QTY	QUANTITY
ELECT,ELEC	ELECTRICAL	RE	REMOVE EXISTING
ELEV	ELEVATOR	REC,RECPT	RECEPTACLE
EMT EO	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED	REPO REQ,REQD	REMOTE E.P.O. REQUIRED
EOL	END OF LINE DEVICE	RF	RETURN FAN
EPO	EMERGENCY POWER OFF	RIM RM	READER INTERFACE MODULE ROOM
EQ EQUIP	EQUAL EQUIPMENT	RO	REVERSE-OSMOSIS
ER	EXISTING TO BE RELOCATED	RP	RECEPTACLE PANEL
EWC	ELECTRIC WATER COOLER	RVAT RTU	REDUCED VOLTAGE AUTOTRANSFORMER REMOTE TERMINAL UNIT
EX F	EXISTING TO REMAIN FLUSH	RUPS	ROTARY UPS
FA	FIRE ALARM	SCA	SHORT CIRCUIT AMPERES
FCC FCU	FIRE COMMAND CENTER FAN COIL UNIT	SD SEC	SMOKE DETECTOR SECONDARY
FDDI	FAIN COIL UNIT FIBER DISTRIBUTED DATA INTERFACE	SF	SUPPLY FAN
FDR	FEEDER	SF6 SPD	SULFERHEXAFLORIDE SURGE PROTECTIVE DEVICE
FH FIP	FUME HOOD FIELD INTERFACE PANEL	SPEC	SPECIFICATION
FIXT	FIXTURE	SPKR	SPEAKER
FLA	FULL LOAD AMPERES	SS ST	STAINLESS STEEL/SOLID STATE SHUNT TRIP/SHORT TIME
FLR,FL	FLOOR	STD	STANDARD
FLUOR FO	FLUORESCENT FIBER OPTIC	STP	SHIELDED TWISTED PAIR
FPB	FAN POWERED BOX	STS SW	STATIC TRANSFER SWITCH SWITCH
FSD FU	FIRE SMOKE DAMPER FUSE	SWBD	SWITCHBOARD
FUT	FUTURE	SWGR	SWITCHGEAR
FVR FVNR	FULL VOLTAGE REVERSIBLE FULL VOLTAGE NON REVERSIBLE	SYM	SYMMETRICAL
G	GROUND (CONDUCTOR)	SYS T	SYSTEM TRANSFORMER
GA	GAUGE	TB TELECOM	TERMINAL BLOCK
GEN GE	GENERATOR GROUND FAULT	TDR	TELECOMMUNICATIONS TIME DOMAIN REFLECTOMETER
GF GFI	GROUND FAULT GROUND FAULT CIRCUIT INTERRUPTER	TEF	TOILET EXHAUST FAN
GND,GRD	GROUND	TEL,TELE TR	TELEPHONE TELEPHONE ROOM
GPS GPS	GENERATOR PARALLELING SWITCHGEAR	TV	TELEVISION
GRC	GALVANIZED RIGID STEEL CONDUIT HAND HOLE	TVSS TYP	TRANSIENT VOLTAGE SURGE SUPPRESSIC TYPICAL
HH		UC	UNDER-COUNTER
HID	HIGH INTENSITY DISCHARGE		UNIT HEATER
HID HOA	HAND-OFF-AUTOMATIC SWITCH	UH	
HID		UL	UNDERWRITERS LABORATORY
HID HOA HP HT HWP	HAND-OFF-AUTOMATIC SWITCH HORSEPOWER HEIGHT HOT WATER PUMP		
HID HOA HP HT HWP HV	HAND-OFF-AUTOMATIC SWITCH HORSEPOWER HEIGHT HOT WATER PUMP HIGH VOLTAGE	UL UNO UON UPS	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE
HID HOA HP HT HWP	HAND-OFF-AUTOMATIC SWITCH HORSEPOWER HEIGHT HOT WATER PUMP	UL UNO UON UPS UTP	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY UNSHIELDED TWISTED PAIR
HID HOA HP HT HWP HV HZ I/INST	HAND-OFF-AUTOMATIC SWITCH HORSEPOWER HEIGHT HOT WATER PUMP HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER	UL UNO UON UPS UTP V	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY UNSHIELDED TWISTED PAIR VOLT(S)
HID HOA HP HT HWP HV HZ I/INST ICM ICR	HAND-OFF-AUTOMATIC SWITCH HORSEPOWER HEIGHT HOT WATER PUMP HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE	UL UNO UON UPS UTP	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY UNSHIELDED TWISTED PAIR
HID HOA HP HT HWP HV HZ I/INST	HAND-OFF-AUTOMATIC SWITCH HORSEPOWER HEIGHT HOT WATER PUMP HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER	UL UNO UON UPS UTP V VA VAV VFD	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY UNSHIELDED TWISTED PAIR VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE
HID HOA HP HT HWP HV HZ I/INST ICM ICR IG IMC INSTR	HAND-OFF-AUTOMATIC SWITCH HORSEPOWER HEIGHT HOT WATER PUMP HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTRUMENT/INSTRUMENTATION	UL UNO UON UPS UTP V VA VAV VFD VM	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY UNSHIELDED TWISTED PAIR VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE VOLTMETER
HID HOA HP HT HWP HV HZ I/INST ICM ICR IG IMC INSTR JB,JBOX	HAND-OFF-AUTOMATIC SWITCH HORSEPOWER HEIGHT HOT WATER PUMP HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTRUMENT/INSTRUMENTATION JUNCTION BOX	UL UNO UON UPS UTP V VA VAV VFD	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY UNSHIELDED TWISTED PAIR VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE
HID HOA HP HT HWP HV HZ I/INST ICM ICR IG IMC INSTR JB,JBOX K KA	HAND-OFF-AUTOMATIC SWITCH HORSEPOWER HEIGHT HOT WATER PUMP HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTRUMENT/INSTRUMENTATION JUNCTION BOX KEY LOCK (KEY INTERLOCK SCHEME) KILOAMPERES	UL UNO UON UPS UTP V VA VAV VFD VM VS W/ W	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY UNSHIELDED TWISTED PAIR VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE VOLTMETER VOLTMETER WITH WIRE/WATT/ WIDTH
HID HOA HP HT HWP HV HZ I/INST ICM IGC IMC INSTR JB,JBOX K KA KCM	HAND-OFF-AUTOMATIC SWITCH HORSEPOWER HEIGHT HOT WATER PUMP HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTRUMENT/INSTRUMENTATION JUNCTION BOX KEY LOCK (KEY INTERLOCK SCHEME) KILOAMPERES THOUSAND CIRCULAR MILS	UL UNO UON UPS UTP V VA VAV VFD VM VS W/ W WCR	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY UNSHIELDED TWISTED PAIR VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE VOLTMETER VOLTMETER VOLTMETER SWITCH WITH WIRE/WATT/ WIDTH WITHSTAND CURRENT RATING
HID HOA HP HT HWP HV HZ I/INST ICM ICR IG IMC INSTR JB,JBOX K KA KCM KEF KW	HAND-OFF-AUTOMATIC SWITCH HORSEPOWER HEIGHT HOT WATER PUMP HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTRUMENT/INSTRUMENTATION JUNCTION BOX KEY LOCK (KEY INTERLOCK SCHEME) KILOAMPERES	UL UNO UON UPS UTP V VA VAV VFD VM VS W/ W	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY UNSHIELDED TWISTED PAIR VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE VOLTMETER VOLTMETER WITH WIRE/WATT/ WIDTH
HID HOA HP HT HWP HV HZ I/INST ICM ICR IG IMC INSTR JB,JBOX K KA KCM KEF KW	HAND-OFF-AUTOMATIC SWITCH HORSEPOWER HEIGHT HOT WATER PUMP HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTRUMENT/INSTRUMENTATION JUNCTION BOX KEY LOCK (KEY INTERLOCK SCHEME) KILOAMPERES THOUSAND CIRCULAR MILS KITCHEN EXHAUST FAN KILOWATTS KILOWATT HOUR	UL UNO UON UPS UTP V VA VAV VFD VM VS W/ W WCR WM	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY UNSHIELDED TWISTED PAIR VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE VOLTMETER VOLTMETER VOLTMETER SWITCH WITH WIRE/WATT/ WIDTH WITHSTAND CURRENT RATING WATTMETER
HID HOA HP HT HWP HV HZ I/INST ICM ICR IG IMC INSTR JB,JBOX K KA KCM KEF KW	HAND-OFF-AUTOMATIC SWITCH HORSEPOWER HEIGHT HOT WATER PUMP HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTRUMENT/INSTRUMENTATION JUNCTION BOX KEY LOCK (KEY INTERLOCK SCHEME) KILOAMPERES THOUSAND CIRCULAR MILS KITCHEN EXHAUST FAN KILOWATTS	UL UNO UON UPS UTP V VA VAV VFD VM VS W/ W WCR WM WP WT XFMR	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY UNSHIELDED TWISTED PAIR VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE VOLTMETER VOLTMETER VOLTMETER SWITCH WITH WIRE/WATT/ WIDTH WITHSTAND CURRENT RATING WATTMETER WEATHERPROOF WATERTIGHT TRANSFORMER
HID HOA HP HT HWP HV HZ I/INST ICM ICR IG IMC INSTR JB,JBOX K KA KCM KEF KW KWH KV	HAND-OFF-AUTOMATIC SWITCH HORSEPOWER HEIGHT HOT WATER PUMP HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTRUMENT/INSTRUMENTATION JUNCTION BOX KEY LOCK (KEY INTERLOCK SCHEME) KILOAMPERES THOUSAND CIRCULAR MILS KITCHEN EXHAUST FAN KILOWATTS KILOWATT HOUR KILOVOLTS KILO VOLT-AMPERES KVA REACTIVE	UL UNO UON UPS UTP V VA VAV VFD VM VS W/ W WCR WM WP WT XFMR XP	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY UNSHIELDED TWISTED PAIR VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE VOLTMETER VOLTMETER VOLTMETER WITH WIRE/WATT/ WIDTH WITHSTAND CURRENT RATING WATTMETER WEATHERPROOF WATERTIGHT TRANSFORMER EXPLOSION-PROOF
HID HOA HP HT HWP HV HZ I/INST ICM ICR IG IMC INSTR JB,JBOX K KA KCM KEF KW KWH KV KVA	HAND-OFF-AUTOMATIC SWITCH HORSEPOWER HEIGHT HOT WATER PUMP HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTRUMENT/INSTRUMENTATION JUNCTION BOX KEY LOCK (KEY INTERLOCK SCHEME) KILOAMPERES THOUSAND CIRCULAR MILS KITCHEN EXHAUST FAN KILOWATTS KILOWATT HOUR KILOVOLTS KILO VOLT-AMPERES	UL UNO UON UPS UTP V VA VAV VFD VM VS W/ W WCR WM WP WT XFMR	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY UNSHIELDED TWISTED PAIR VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE VOLTMETER VOLTMETER VOLTMETER SWITCH WITH WIRE/WATT/ WIDTH WITHSTAND CURRENT RATING WATTMETER WEATHERPROOF WATERTIGHT TRANSFORMER

ABBREVIATIONS

MOUNTING HEIGHTS:

4 FEET

3 FEET

6 FEET-6 INCHES

1 FOOT-6 INCHES

4 FEET-6 INCHES

6 FEET-6 INCHES

4 INCHES ABOVE BACKSPLASH

UNLESS OTHERWISE INDICATED, OUTLET BOXES IN WALLS SHALL BE LOCATED WITH CENTERLINE AT THE FOLLOWING ELEVATIONS ABOVE THE FINISHED FLOOR LINE. VERIFY ALL HEIGHTS PRIOR TO ACTUAL LAYOUT OF WORK WITH THE GENERAL CONSTRUCTION CONTRACTOR.

SWITCH OUTLETS

2. BRACKET OUTLETS (OTHER) 3. RECEPTACLE OUTLETS (U.O.N.)

4. RECEPTACLE OUTLETS,

MECHANICAL ROOMS

5. RECEPTACLE OUTLETS MOUNTED, ABOVE CASEWORK/CABINETS

MOTOR STARTERS AND

SAFETY SWITCHES

6. CLOCK OUTLETS 12 INCHES BELOW CEILING

8. PANELBOARDS (TOP)

MOUNTING HEIGHT NOTES:

THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS OTHERWISE NOTED ON PLANS OR SPECIFICATIONS.

GENERAL NOTES:

- 1. PROVIDE EACH 120V, 20A BRANCH CIRCUIT FROM LIGHTING AND APPLIANCE PANELBOARDS WITH A SEPARATE NEUTRAL FOR EACH PHASE CONDUCTOR. NO SHARED NEUTRALS ARE PERMITTED UNLESS OTHERWISE INDICATED. BRANCH CIRCUIT HOME RUN WIRING MAY BE COMBINED UP TO MAXIMUM OF (6) CURRENT CARRYING CONDUCTORS IN A CONDUIT SIZED PER NFPA 70.
- 2. THESE ARE STANDARD ABBREVIATION LISTS AND SYMBOLS. DISREGARD UNUSED ABBREVIATIONS AND SYMBOLS.
- 3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR
- LUMINAIRE LOCATIONS.
- 4. ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF LUMINAIRES WITH OTHER TRADES.
- 5. FOR LOCATION OF MECHANICAL EQUIPMENT, REFER TO MECHANICAL PLANS.
- 6. A '+' BESIDE A DEVICE INDICATES MOUNTED ABOVE CASEWORK OR
- COUNTER. A 'UC' BESIDE A DEVICE INDICATES MOUNTED UNDER COUNTER.
- 7. PROVIDE # 10 AWG PHASE, NEUTRAL, AND GROUND CONDUCTORS FOR 120 VOLT, 20 AMPERE BRANCH CIRCUITS EXCEEDING 100 FEET.
- 8. RIGID EMT TO BE USED ABOVE CEIING AND INSIDE WALLS. MC CABLE USED FOR WHIP CONNECTIONS WITHIN 6 FEET UNO.



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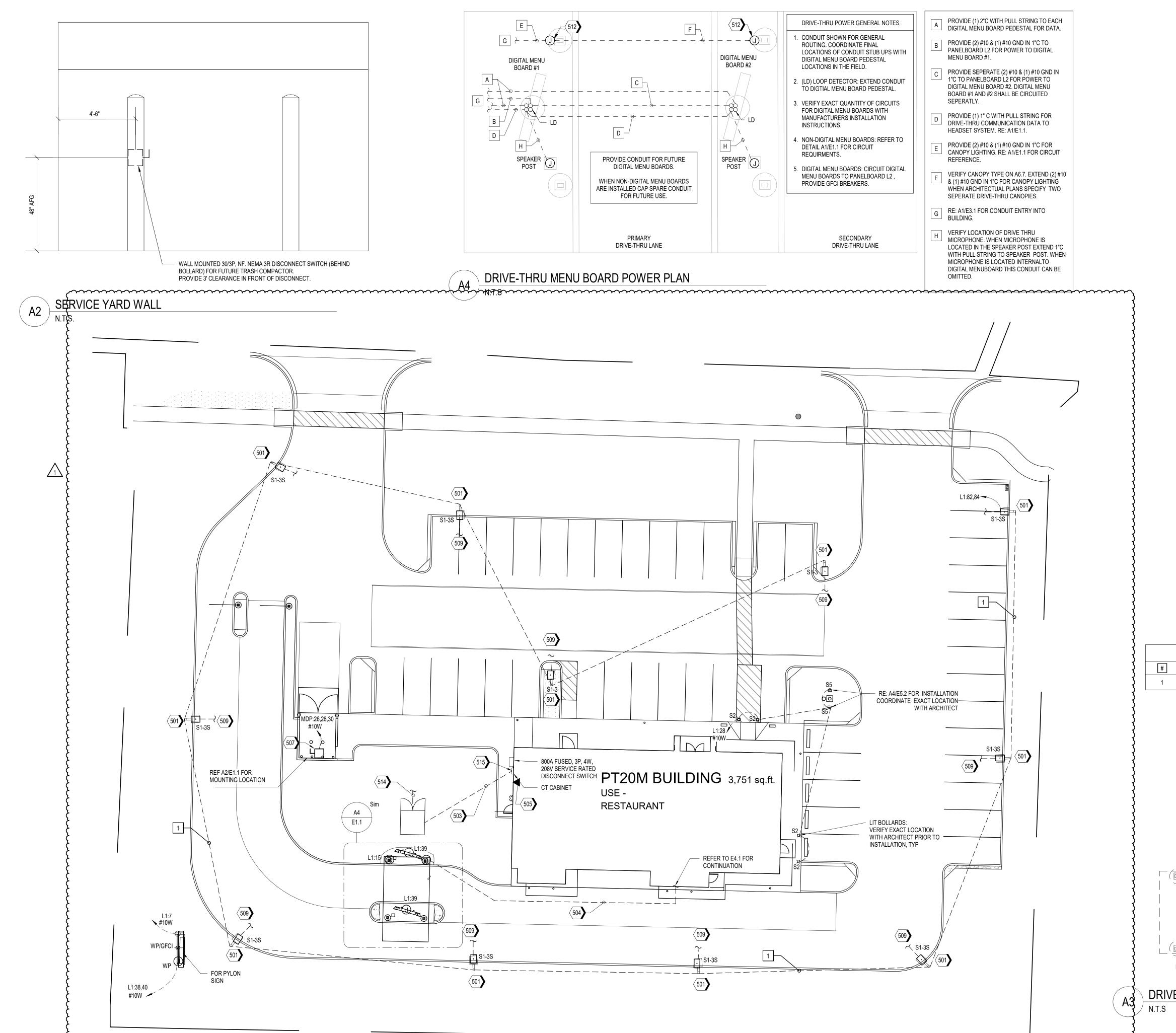
REV	DESCRIPTION	DATE

Project No.: 62-40497 - 21

Client Project No.:

Drawing Title: **ELECTRICAL ABBREVIATIONS** AND SCHEDULES

Date: 06.29.2022 Phase: PERMIT SET Designed: JPF Drawing No.:



ELECTRICAL SITE PLAN

**GENERAL NOTES** 

- A. REFER TO SHEET E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
- B. CIRCUIT SIGNAGE TO NEW BUILDING AS SHOWN.
- C. ELECTRICAL CONTRACTOR SHALL VERIFY ALL POWER AND TELEPHONE REQUIREMENTS AND EQUIPMENT PRIOR TO
- INSTALLATION. D. ELECTRICAL CONTRACTOR TO VERIFY UNDERGROUND
- SERVICE REQUIREMENTS WITH POWER CO. E. SIGNAGE TO BE INSTALLED BY SIGN CONTRACTOR. VERIFY
- EXACT LOCATIONS, LOADS AND WIRING REQUIREMENTS PRIOR TO INSTALLATION. F. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT,
- WIRING AND CONNECTIONS FOR SIGNAGE AND PARKING LOT LIGHTS. (COORDINATE EXACT LOCATIONS).
- G. ELECTRICAL CONTRACTOR SHALL VERIFY ALL REQUIREMENTS WITH GENERAL CONTRACTOR.

H. UNDERGROUND CONDUIT INSTALLATIONS SHALL COMPLY WITH

- NEC ARTICLE 300.5.
- J. EXTERIOR LIGHTING AND SIGN LIGHTING SHALL BE CONTROLLED VIA BMS-LIGHTING CONTROL PANEL. REFER TO SHEET E5.3 FOR LIGHTING CONTROL WIRING DIAGRAM.
- K. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE NEC AS WELL AS ALL APPLICABLE FEDERAL STATE, AND LOCAL REQUIREMENTS. WHERE CONFLICTS ARISE, THE MOST STRIGENT REQUIREMENT SHALL TAKE PRECEDENCE.
- ALL UNDERGROUND CONDUIT RUNS SHALL BE ROUTED CLEAR OF UNDERGROUND DETENTION.
- M. ALL EXTERIOR LIGHT POLES, FLAGPOLE LIGHTS, SIGNAGE, AND EXTERIOR MENU BOARDS SHALL ROUTE THROUGH THE LIGHTING CONTROL PANEL.

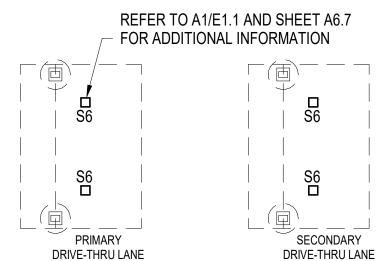
KEYNOTES

- 501 AREA LIGHTS WITH POLE AND BASE. 503 ELECTRICAL UNDERGROUND SECONDARY SERVICE ENTRANCE CONDUITS TO BUILDING FROM TRANSFORMER BY E.C. RE: A2/E5.1 SINGLE LINE DIAGRAM. COORDINATE ELECTRIC SERVICE ROUTING
- WITH UTILITY COMPANY. 504 PROVIDE 1" C WITH PULL STRING FOR DRIVE-THRU COMMUNICATION DATA TO DRIVE THRU HEADSET SYSTEM. RE:
- 505 PROVIDE 2" C WITH PULL STRING TO PROPERTY LINE FOR I.T. COMMUNICATION CABLE. ROUTE LINE TO BUILDING AT THIS LOCATION. COORDINATE COMMUNICATION SERVICE WITH UTILITY.
- 507 TRASH COMPACTOR BY OTHERS. PROVIDE 30A/240V/3P/NF/NEMA

3R DISCONNECT SWITCH WITH 3#10, #10 GND, IN 1"C TO PANEL

- 'MDP'. STUB UP AGAINST SERVICE YARD WALL. RE: A2/E1.1 509 PROVIDE 3/4" EMPTY CONDUIT WITH PULL WIRE FOR POLE MOUNTED WIRELESS ACCESS POINT (WAP), VERIFY LOCATIONS WITH OWNER PRIOR TO INSTALLATION. ROUTE CONDUIT FROM SITE LIGHTING POLE TO MANAGERS OFFICE. TOTAL CONDUIT RUN FROM BUILDING ENTRY TO WAP NOT TO EXCEED 250'-0". RE:
- 512 REFER TO B2/A6.7 FOR TYPE F LIGHT FIXTURE, CANOPY DETAIL. 514 UNDERGROUND ELECTRICAL SERVICE TO TRANSFORMER. 515 REFER TO A1/E3.1 FOR SITE CONDUIT ENTRIES.

UNDERGROUND CONDUIT SCHEDULE CONDUIT SIZE CIRCUIT WIRE SIZE GROUND L1-82,84 2 - #10 THWN #10 3/4"



DRIVE-THRU LARGE CANOPY LIGHTING

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PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/22

EV	DESCRIPTION	DATE
1	Development Comment Response	08/03/22

Project No.: 62-40497 - 21

Client Project No.: Drawing Title:

**ELECTRICAL SITE PLAN** 

Date:	06.29.2022	Phase:	PERMIT SE
Designed:	JPF	Drawing	g No.:

A. REFER TO ELECTRICAL LIGHT FIXTURE SCHEDULE ON SHEET E6.1 FOR LIGHT FIXTURE ELECTRICAL INFORMATION.



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REV	DESCRIPTION	DATE
1	Development Comment Response	08/03/22

62-40497 - 21 Project No.: Client Project No.:

Drawing Title:

PHOTOMETERIC SITE PLAN

Date: 06.29.2022 Phase: PERMIT SET Designed: JPF Drawing No.: Drawn: JPF

Checked: KFF

27.5' OVERALL 25' POLE 2.5' BASE GRADE **POLE DETAIL** (NOT TO SCALE)

Luminaire Schedule						
Symbol	Qty	Label	Lumens/Lamp	Arrangement	LLF	Description
-	2	S1-3	N.A.	SINGLE	0.900	CTL-N-35L-T3-35,000 LUMEN TYPE 3 LED
	9	S1-3S	N.A.	SINGLE	0.900	CTL-N-35L-T3-S215-30,000 LUMEN TYPE 3 LED W/BACK SHLD

## TECHLIGHT INC.

- DUE TO CHANGING LIGHTING ORDINANCES IT IS THE CONTRACTORS RESPONSIBILITY TO SUBMIT THE SITE PHOTOMETRICS AND LUMINAIRE SPECS TO THE LOCAL INSPECTOR BEFORE ORDERING TO ENSURE THIS PLAN COMPLIES WITH LOCAL LIGHTING ORDINACES.

0.0 to 1 to 1 to 3 to 3 to 4 to 8 to 5.0 to 5.4 to 5.5 to 5.4 to

- THIS LIGHTING DESIGN IS BASED ON INFORMATION SUPPLIED BY OTHERS. CHANGES IN ELECTRICAL SUPPLY, AREA GEOMETRY AND OBJECTS WITHIN THE LIGHTED AREA MAY PRODUCE ILLUMINATION VALUES DIFFERENT

FROM THE PREDICTED RESULTS SHOWN ON THIS LAYOUT. - THIS LAYOUT IS BASED ON .IES FILES THAT WERE LAB TESTED OR COMPUTER GENERATED. ACTUAL RESULTS MAY VARY.

Symbol	Qty	Label	Lumens/Lamp	Arrangement	LLF	Description
-	2	S1-3	N.A.	SINGLE	0.900	CTL-N-35L-T3-35,000 LUMEN TYPE 3 LED
<b>—</b>	9	S1-3S	N.A.	SINGLE	0.900	CTL-N-35L-T3-S215-30,000 LUMEN TYPE 3 LED W/BACK SHLD

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Mir
SITE	Illuminance	Fc	2.24	8.1	0.0	N.A.	N.A.
PARKING AND DRIVE	Illuminance	Fc	5.39	8.1	1.9	2.84	4.26

 
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Min	Max/Min		LumNo	Label	Z-luminaire height	Tilt
	N.A.		1	S1-3	27.5	0
	4.26		2	S1-3	27.5	0
		•	3	S1-3S	27.5	0
			4	S1-3S	27.5	0
			5	S1-3S	27.5	0
			6	S1-3S	27.5	0
			7	S1-3S	27.5	0
			8	S1-3S	27.5	0
			9	S1-3S	27.5	0
			10	C1 2C	27.5	0

Luminaire Location Summary

11 S1-3S

FOR PRICING CONTACT:

DOUG KILE 214-957-5304

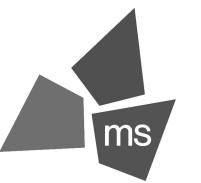
1. Calculation at grade.

2. Based on 25' poles plus 2.5' AFG bases.

- LARGE SIGN. SEPERATE ALL SIGNAGE AND SECURITY LIGHTING. COORDINATE ALL J-BOX LOCATIONS WITH SIGN LOCATIONS PRIOR TO
  - . REFER TO ARCHITECTURAL ELEVATIONS FOR BUILDING SIGN LOCATIONS.
  - REFER TO SHEET E6.1 FOR LIGHT FIXTURE SCHEDULE.
  - M. FOR LIGHTS WITH EMERGENCY BATTERY BACK-UP: NORMAL DUTY BALLAST TO BE SWITCHED. EMERGENCY BALLAST TO OPEN UPON POWER FAILURE
  - N. EXIT SIGNS AND NIGHT LIGHTS SHALL NOT BE SWITCHED.
  - ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE NEC AS WELL AS ALL APPLICABLE FEDERAL STATE, AND LOCAL REQUIREMENTS.WHERE CONFLICTS ARISE, THE MOST STRINGENT REQUIREMENT SHALL TAKE PRECEDENCE.

### **KEYNOTES**

- 106 REFER TO C1/A6.9 FOR TYPE F DETAIL. 108 EM STEP LIGHT SHALL BE WIRED ONLY AS AN EMERGENCY LIGHT
- TO BE ENERGIZED UPON POWER FAILURE. 109 CANOPY EMERGENCY LIGHT TO BE SWITCHED AS INDICATED. EMERGENCY BATTERY PACK TO ENERGIZE FIXTURE UPON POWER
- 111 ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUITS, CONDUCTORS, AND CONNECTIONS FOR TWO SWITCHES FOR COOLER BOXES. SWITCH WITH PILOT LIGHT IN J-BOX PROVIDED BY
- 113 CEILING MOUNTED OCCUPANCY SENSOR TO CONTROL LIGHTING WITHIN THIS SPACE. PROVIDE PASSIVE INFRARED LINE VOLTAGE HUBBELL #PIR10P CEILING MOUNTED SERIES OR EQUIVALENT, WITH A MAXIMUM DELAY SETTING OF 30 MINUTES.
- 114 PROVIDE AND INSTALL WALL SWITCHES TO CONTROL GENERAL LIGHTING CIRCUITS. INDICATE WHICH LIGHTING CIRCUIT IS CONTROLLED ON EACH SWITCH WITH AN ORANGE ENGRAVED PHENOLIC NAME PLATE WITH WHITE LETTERS. REFER TO DETAIL
- 117 PROVIDE LOCKABLE WEATHER PROOF TOGGLE SWITCH AND CONNECT THROUGH BMS-LIGHTING CONTROL PANEL. COORDINATE EXACT LOCATION OF J-BOXES WITH ACTUAL LOCATION OF RESPECTIVE SIGNAGE OR LIGHTING, COORDINATE EXACT LOCATION WITH ARCHITECTUAL PLANS. ALL EXTERIOR SIGNAGE AND LIGHTING TO BE CONTROLLED THRU BMS-LIGHTING CONTROL PANEL, (2) 4 POLE N.O. CONTACTOR, WHICH HANDLE UP TO 30 AMPS EACH. SITE SIGNAGE, ALL DRIVE-THRU MENUS, ALL WHATABURGER LOGO BUILDING SIGNS CONNECTED TO OUTDOOR SIGNAGE TERMINALS SOFFIT RECESSED FIXTURES AND BACK DOOR LIGHTING ARE CONNECTED TO OUTDOOR LIGHTING TERMINALS. REFER TO E5.3 FOR LIGHTING CONTROL WIRING DIAGRAM. BUILDING MOUNTED EXTERIOR LIGHTS AND EXTERIOR SIGNAGE ARE CONTROLLED BY (1) CONTACTOR. EXTERIOR SITE LIGHTS ARE CONTROLLED BY SECOND CONTACTOR.
- 120 ONLY SEALTIGHT SHALL BE PERMITED IN WALK-IN COOLER/FREEZER. SEAL PER NEC 300.7(A).



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PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/22

REV	DESCRIPTION	DATE

62-40497 - 21 Project No.: Client Project No.:

Drawing Title: ELECTRICAL LIGHTING PLAN

Phase: PERMIT SET Date: 06.29.2022

Designed: JPF Drawn: JPF Checked: KFF

- ALL ISOLATED GROUND JUNCTION BOXES, LOCATED ABOVE CEILING, SHALL
- ALL ISOLATED GROUND SPLICES SHALL BE MADE WITH CRIMP TYPE CONNECTORS. WIRE NUTS ARE NOT ACCEPTABLE.
- REFER TO KITCHEN EQUIPMENT PLANS FOR EXACT LOCATION OF ELEC.
- ALL SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED IN THE FOLLOWING LOCATIONS (PART B-OTHER THAN DWELLING UNIT KITCHENS) SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL. THIS INCLUDES RECEPTACLES ON 240-VOLT CIRCUITS. THREE-PHASE RECEPTACLES ON 208Y/120-VOLT THREE-PHASE CIRCUITS IN THOSE AREAS WOULD ALSO REQUIRE GFCI PROTECTION. PER NEC 210.8 (B) AND AHJ REQUIREMENTS.
- M. REFER TO SHEET E6.1 FOR EQUIPMENT SCHEDULES AND CONNECTION
- ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE NEC AS WELL AS ALL APPLICABLE FEDERAL STATE, AND LOCAL REQUIREMENTS. WHERE CONFLICTS ARISE, THE MOST STRINGENT
- CONTRACTOR SHALL INSTALL SOOW CORDS WITH KELLUM STYLE STRAIN RELIEFS AND APPROPRIATE PLUGS FOR THE FOLLOWING EQUIPMENT: TWO CORDS FOR EACH GRILL (4 TOTAL), ONE FOR EACH FRYER (5 TOTAL) AND ONE FOR OVEN.COORDINATE ALL REQUIRMENTS WITH KITCHEN
  - 201 FIRE ALARM ANNUNCIATOR PANEL. REFER TO FIRE ALARM DRAWINGS FOR FURTHER INFORMATION.
  - FOR FURTHER INFORMATION. 203 PROVIDE CEILING MOUNTED JUNCTION BOX FOR SECURITY.
  - ELECTRICAL PANEL AREA TO JUNCTION BOX. 204 PROVIDE WALL MOUNTED. GASKETED JUNCTION BOX MOUNTED 9'-0" ABOVE GRADE FOR SECURITY OR WIRELESS ACCESS POINT.
  - PROVIDE 3/4" CONDUIT WITH NYLON PULL STRING FROM MANAGERS OFFICE TO JUNCTION BOX. 205 PROVIDE CEILING MOUNTED, GASKETED JUNCTION BOX FOR
  - SECURITY. PROVIDE 3/4" CONDUIT WITH NYLON PULL STRING FROM ELECTRICAL PANEL AREA TO JUNCTION BOX. 206 PROVIDE BELL AND BUZZER WITH STAINLESS STEEL COVER
  - 213 PROVIDE STEP-DOWN TRANSFORMER FOR TOUCH-FREE VALVES
  - 220 REFER TO EQUIPMENT SCHEDULE ON SHEET E6.1 FOR
  - 233 COORDINATE ALL OFFICE WORK WITH WHATABURGER PRIOR TO BEGINNING CONSTRUCTION.
  - 237 CONNECT BMS-LIGHTING CONTROL PANEL TO 120V POWER. REFER TO SHEET E5.3 FOR INSTALLATION DETAILS.
  - 239 PROVIDE (1) 2"C FROM SPRINKLER CONTROL BOX TO LANDSCAPE AREA. PRÒVIDE (1) 4X4 PULL BOX AT +48" FOR IRRIGATION
  - TRANSFORMER, RE: A2/E5.1
  - 241 (1) 2"C WITH PULL STRING FOR DATA TO FUTURE DIGITAL
  - 242 (1) 1" C. UNDERGROUND TO MENUBOARDS. REFER TO SHEET E1.1 FOR POWER TO MENUBOARDS. CONNECT TO BMS-LIGHTING
  - CONTROL PANEL, RE: A1/E1.1. 249 ENTRY FOR POLE MOUNTED SECURITY OR WIRELESS ACCESS POINT, PROVIDE 3/4" CONDUIT WITH PULL WIRE FROM MANAGERS
  - OFFICE TO SITE LIGHTING POLES. CONDUIT ENTRIES SHOWN FOR REFERENCE. VERIFY UG CONDUIT COUNT ON A1/E1.1.
  - 250 PROVIDE 2" CONDUIT WITH PULL STRING TO PROPERTY LINE FOR I.T. COMMUNICATION CABLE.
  - 251 MOUNT WH DISCONNECT ABOVE WH NEAR EXPANSION TANK.COORDINATE EXACT LOCATION SO THAT BOTH THE EXPANSION TANK AND DISCONNECT FIT ON THE SAME WALL.
  - 254 SITE CONDUIT ENTRIES SHOWN FOR REFERENCE. VERIFY UG CONDUIT COUNT ON A1/E1.1.



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REV	DESCRIPTION	DATE

62-40497 - 21 Project No.:

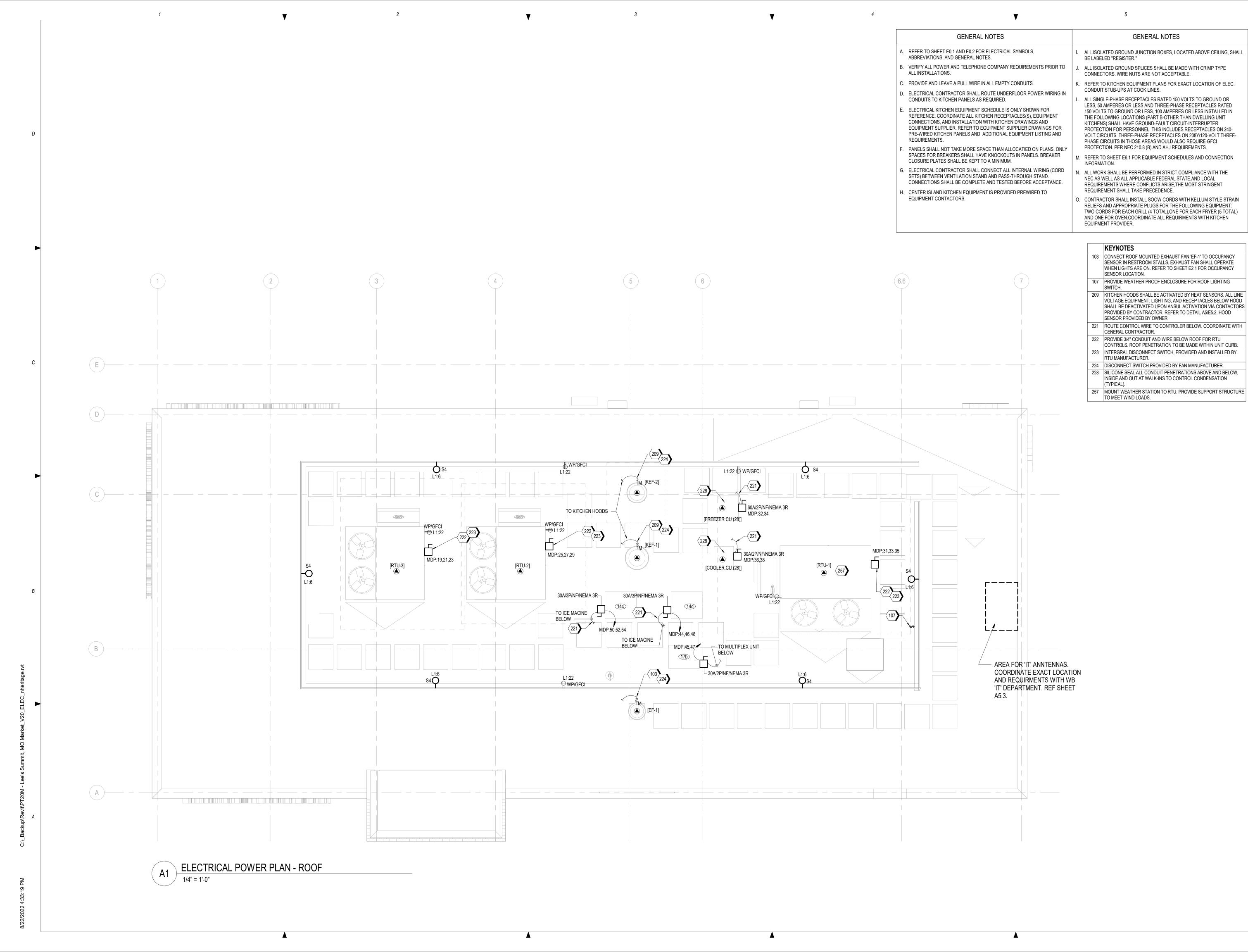
Client Project No.:

Drawing Title: **ELECTRICAL POWER PLAN** 

Date: 06.29.2022 Phase: PERMIT SET

Designed: JPF Drawn: JPF Checked: KFF

Drawing No.: E3.1





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01/17/19 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/22

	REV	DESCRIPTION	DATE

62-40497 - 21 Project No.:

Client Project No.:

Drawing Title:

ELECTRICAL POWER PLAN -ROOF

Phase: PERMIT SET Date: 06.29.2022 Designed: JPF Drawing No.:

1. ALL EQUIPMENT UNDER HOOD IS SERVED BY AN ANSUL CONTROLLED EMERGENCY SHUT-DOWN CONTACTOR.

FIRE ALARM PANEL.

(6.4)

TO KEF-2

ON ROOF

ON ROOF

PHONE LINE SCHEDULE
LINE #1-STORE PHONE
LINE #2-STORE PHONE
LINE #3-FAX/BUILDING CONTROL
NOTES:

VERIFY IF LINE #4 WILL BE REQUIRED FOR

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

[FREEZER UC (28)]

[COOLER UC (28)]

TO CONDENSER CONTROL-

PANEL (ON ROOF)

L1:20

GENERAL NOTES

REFER TO SHEET E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

ALL INSTALLATIONS.

VERIFY ALL POWER AND TELEPHONE COMPANY REQUIREMENTS PRIOR TO

PROVIDE AND LEAVE A PULL WIRE IN ALL EMPTY CONDUITS.

ELECTRICAL CONTRACTOR SHALL ROUTE UNDERFLOOR POWER WIRING IN CONDUITS TO KITCHEN PANELS AS REQUIRED.

ELECTRICAL KITCHEN EQUIPMENT SCHEDULE IS ONLY SHOWN FOR REFERENCE. COORDINATE ALL KITCHEN RECEPTACLES(S), EQUIPMENT CONNECTIONS, AND INSTALLATION WITH KITCHEN DRAWINGS AND EQUIPMENT SUPPLIER. REFER TO EQUIPMENT SUPPLIER DRAWINGS FOR PRE-WIRED KITCHEN PANELS AND ADDITIONAL EQUIPMENT LISTING AND REQUIREMENTS.

PANELS SHALL NOT TAKE MORE SPACE THAN ALLOCATIED ON PLANS. ONLY SPACES FOR BREAKERS SHALL HAVE KNOCKOUTS IN PANELS. BREAKER CLOSURE PLATES SHALL BE KEPT TO A MINIMUM.

SETS) BETWEEN VENTILATION STAND AND PASS-THROUGH STAND.

ELECTRICAL CONTRACTOR SHALL CONNECT ALL INTERNAL WIRING (CORD

CONNECTIONS SHALL BE COMPLETE AND TESTED BEFORE ACCEPTANCE.

CENTER ISLAND KITCHEN EQUIPMENT IS PROVIDED PREWIRED TO EQUIPMENT CONTACTORS.

**GENERAL NOTES** 

ALL ISOLATED GROUND JUNCTION BOXES, LOCATED ABOVE CEILING, SHALL BE LABELED "REGISTER."

ALL ISOLATED GROUND SPLICES SHALL BE MADE WITH CRIMP TYPE

CONNECTORS. WIRE NUTS ARE NOT ACCEPTABLE. REFER TO KITCHEN EQUIPMENT PLANS FOR EXACT LOCATION OF ELEC.

CONDUIT STUB-UPS AT COOK LINES. ALL SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED IN THE FOLLOWING LOCATIONS (PART B-OTHER THAN DWELLING UNIT KITCHENS) SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL. THIS INCLUDES RECEPTACLES ON 240-VOLT CIRCUITS. THREE-PHASE RECEPTACLES ON 208Y/120-VOLT THREE-PHASE CIRCUITS IN THOSE AREAS WOULD ALSO REQUIRE GFCI PROTECTION. PER NEC 210.8 (B) AND AHJ REQUIREMENTS.

REFER TO SHEET E6.1 FOR EQUIPMENT SCHEDULES AND CONNECTION INFORMATION.

ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE NEC AS WELL AS ALL APPLICABLE FEDERAL STATE, AND LOCAL REQUIREMENTS.WHERE CONFLICTS ARISE, THE MOST STRINGENT REQUIREMENT SHALL TAKE PRECEDENCE.

). CONTRACTOR SHALL INSTALL SOOW CORDS WITH KELLUM STYLE STRAIN RELIEFS AND APPROPRIATE PLUGS FOR THE FOLLOWING EQUIPMENT: TWO CORDS FOR EACH GRILL (4 TOTAL), ONE FOR EACH FRYER (5 TOTAL) AND ONE FOR OVEN.COORDINATE ALL REQUIRMENTS WITH KITCHEN EQUIPMENT PROVIDER.

KEYNOTES

120 ONLY SEALTIGHT SHALL BE PERMITED IN WALK-IN COOLER/FREEZER. SEAL PER NEC 300.7(A).

203 PROVIDE CEILING MOUNTED JUNCTION BOX FOR SECURITY. PROVIDE 3/4" CONDUIT WITH NYLON PULL STRING FROM ELECTRICAL PANEL AREA TO JUNCTION BOX.

207 PROVIDE JUNCTION BOX FOR POWER CONNECTION TO DRIVE-THRU WINDOW. ROUTE POWER UNDERGROUND TO AVOID STEEL FRAMING. COORDINATE WITH KITCHEN EQUIPMENT DRAWINGS FOR EXACT LOCATION AND CONNECTION REQUIREMENTS.

209 KITCHEN HOODS SHALL BE ACTIVATED BY HEAT SENSORS. ALL LINE VOLTAGE EQUIPMENT, LIGHTING, AND RECEPTACLES BELOW HOOD SHALL BE DEACTIVATED UPON ANSUL ACTIVATION VIA CONTACTORS PROVIDED BY CONTRACTOR. REFER TO DETAIL A5/E5.2. HOOD SENSOR PROVIDED BY OWNER

211 INSTALL RACO #294 4" OCTAGON BOX MOUNTED FLUSH IN WALL 48" ABOVE FINISHED FLOOR WITH 1/2" CONDUIT ROUTED TO ABOVE CEILING WITH PULLWIRE FOR ANSUL PULLSTATION.

212 STUB UP 3/4" PVC 88" ABOVE FINISHED FLOOR FOR DRIVE-THRU COMMUNICATION DATA TO DRIVE THRU HEADSET SYSTEM. RE:

214 REFER TO KITCHEN EQUIPMENT SUPPLIER FOR TIME CLOCK AND LOCAL DISCONNECTING MEANS IN FREEZER/COOLER. 215 PRE-WIRED KITCHEN ELECTRICAL PANELS FURNISHED BY EQUIPMENT SUPPLIER. ACTUAL LOCATION DETERMINED BY EQUIPMENT SUPPLIER AND SHOWN FOR REFERENCE ONLY.

INSTALLATION/CONNECTION REQUIREMENTS. 218 PROVIDE POWER FOR FREEZER DOOR HEAT TRACE. REFER TO

REFER TO KITCHEN EQUIPMENT SUPPLIER FOR ALL

MANUFACTURER FOR REQUIREMENTS. 225 PROVIDE POWER TO MONITOR AND COOKLINE POWER POLES RE: DETAIL A3/E5.2

226 ALL CASH REGISTERS SHALL HAVE SEPARATE ISOLATED GROUND WIRES TO THE PANELBOARD, ELECTRICAL CONTRACTOR SHALL PROVIDE HUBBELL #4700 DRIG RECEPTACLES. COVER PLATE SHALL BE TYPE '302', STAINLESS STEEL.

227 PROVIDE (1) 4X4 PULL BOX @ 24" A.F.F., WITH (1) 2" PVC CONDUIT FOR CONNECTION TO POINT OF SALE LOCATIONS.

228 SILICONE SEAL ALL CONDUIT PENETRATIONS ABOVE AND BELOW, INSIDE AND OUT AT WALK-INS TO CONTROL CONDENSATION (TYPICAL).

229 CONDUIT UNDERGROUND FROM MAIN DISTRIBUTION PANEL (MDP) TO MAIN COOK LINE FOR POWER TO KITCHEN PANELS (TYPICAL OF 4). REFER TO A2/E5.1 FOR FEEDER SIZES.

230 PROVIDE 3/4" CONDUIT FOR POWER TO ANSUL FIRE SUPPRESSION SYSTEM, REFER TO K PANELS (TYPICAL OF 2).

231 J-BOX FOR POWER CONNECTION TO HOOD TIMER. REFER TO KITCHEN EQUIPMENT VENDOR FOR INSTALLATION REQUIREMENTS. 234 FRYER AUTOMAN ANSUL CONTACTOR ENCLOSURE MOUNTED

HIGH ON WALL BELOW CEILING. 235 ANSUL AUTOMAN MOUNTED ON WALL BELOW CEILING AS HIGH AS

243 CONNECT FRYER TO ANSUL FIRE SUPPRESSION SYSTEM. RE: MECH DWG

SECURITY.

252 PROVIDE WP WALL MOUNTED JUNCTION +8" A.F.F. BOX FOR



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62-40497 - 21 Project No.:

Client Project No.:

Drawing Title: **ELECTRICAL ENLARGED** 

**PLANS** 

Date: 06.29.2022 Phase: PERMIT SET

Designed: JPF Drawn: JPF Checked: KFF

E4.1

Drawing No.:

REFER TO E1.1

**ENLARGED FLOOR PLAN - KITCHEN** 

1/4" = 1'-0"

SERVING AREA

FOR CONTINUATION

SWITCH 'a'

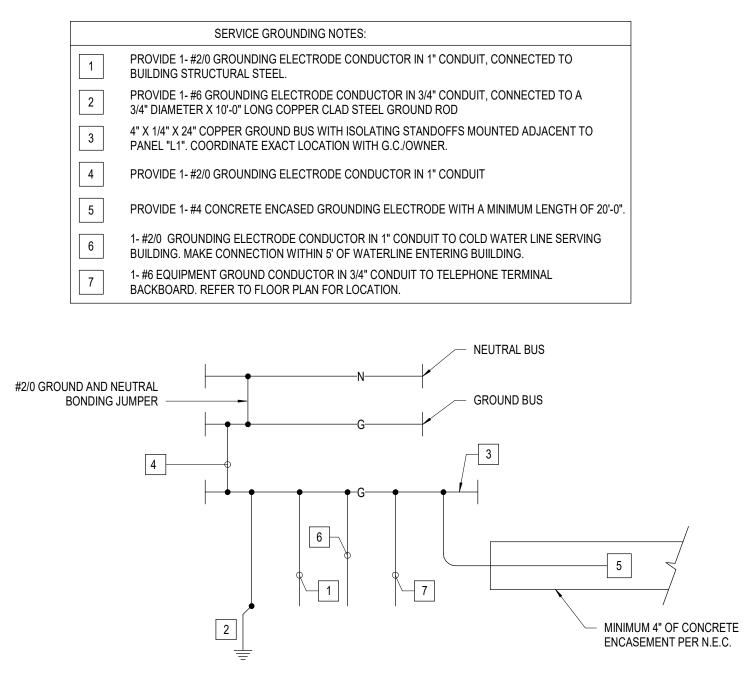
SWITCH 'b'

SWITCH 'c'

SWITCH 'd'

LIGHT FIXTURES

(DINING)





- ALL WIRING SHALL BE COPPER WITH 'THWN' INSULATION RATED AT 75° C UNLESS OTHERWISE NOTED.
- B. PROVIDE 3/4" CONDUIT BELOW ROOF FOR CONTROL WIRING TO RTU. ROUTE THROUGH ROOF WITHIN UNIT CURB.
- ALUMINUM SERVICE LATERAL FEEDERS SHALL BE PROVIDED

WITH COMPRESSION CONNECTIONS UPON APPROVAL WITH

- PROVIDE ALL REQUIRED ELECTRICAL PANEL LABELING/MARKINGS AS REQUIRED BY THE 2014 NEC, SEC. 110.21-110.24. THE MARKING SHALL ADEQUATELY WARN OF THE HAZARD USING EFFECTIVE WORDS AND/OR COLORS AND/OR SYMBOLS. THE LABEL SHALL BE PERMANENTLY AFFIXED TO THE EQUIPMENT OR WIRING METHOD AND SHALL NOT BE HAND WRITTEN. THE LABEL SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. THE LABEL SHALL ALSO BE SIZED ACCORDINGLY SO THE TEXT IS LEGIBLE WITH SUITABLE FONT SIZES ACCORDING TO ANSI Z535. 4-2011.
- ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE NEC AS WELL AS ALL APPLICABLE FEDERAL STATE, AND LOCAL REQUIREMENTS. WHERE CONFLICTS ARISE, THE MOST STRINGENT REQUIREMENT SHALL TAKE PRECEDENCE.

### **KEYNOTES**

- 601 FURNISED BY KITCHEN EQUIPMENT SUPPLIER. CIRCUITS ARE PREWIRED TO EQUIPMENT, FEEDERS BY CONTRACTOR. 602 GROUNDING SHALL BE PER NEC. FURNISH AND INSTALL 3/4"X10'-0' GROUND ROD AT A CONCRETE ENCASED ELECTRODE. CONNECT THE BUILDING SERVICE GROUND TO THE GROUND ROD, ENCASED ELECTRODE AND DOMESTIC COLD WATER PIPING WITH BARE #3/0
- 607 4#4/0, #4 GND, IN 2-1/2"C.
- 608 3#6, #10 GND, IN 1"C.
- 609 4#3, #8 GND, IN 1-1/2"C.
- 610 PROVIDE ISOLATION TRANSFORMER. SUSPEND TRANSFORMER FROM STRUCTURE. REFER TO DETAIL B1/E5.2.

COPPER CONDUCTOR. BONDING SHALL BE PER NEC. REFER TO

- 612 #8 GROUNDING ELECTRODE CONDUCTOR.GROUND TO BUILDING STEEL.
- 614 PROVIDE 240 KA SURGE PROTECTIVE DEVICE.
- 616 (3 SETS) 4-300 kCMIL, #1/0 GND, IN EACH 3"C.
- 617 BMS-LIGHTING CONTROL PANEL TO BE FURNISHED BY OWNER AND INSTALLED BY BMS CONTRACTOR. ALL EXTERIOR LIGHTING AND SIGNAGE SHALL BE WIRED VIA BMS-LIGHTING CONTROL PANEL. FIELD COORDINATE EXACT REQUIREMENTS WITH WHATABURGER CM.
- 618 4#3/0, #6 GND, IN 2"C.
- 619 4#1, #6 GND, IN 1-1/2"C. 620 PROVIDE SQUARE D PANELBOARDS OR APPROVED ALTERNATE FOR PANELS MDP, L1, AND L2. MDP:32"X 9.5"; L1:20"X 5.75"; L2:20"X
- 622 PROVIDE WIRE GUTTER ABOVE PANELBOARDS AND FLUSH AGAINST CEILING STRUCTURE FOR ROUTING OF CIRCUITS TO ABOVE CEILING. FIELD VERIFY WIDTH AND LENGTH OF GUTTER.



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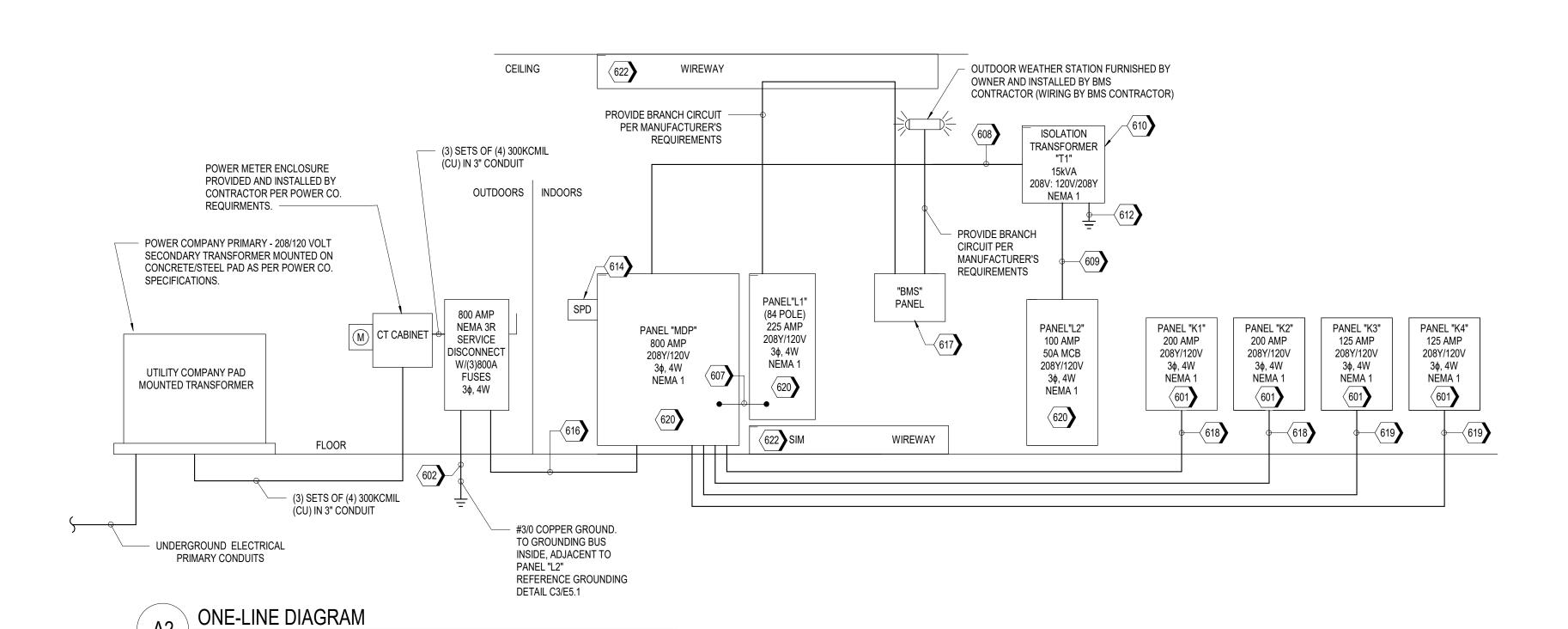
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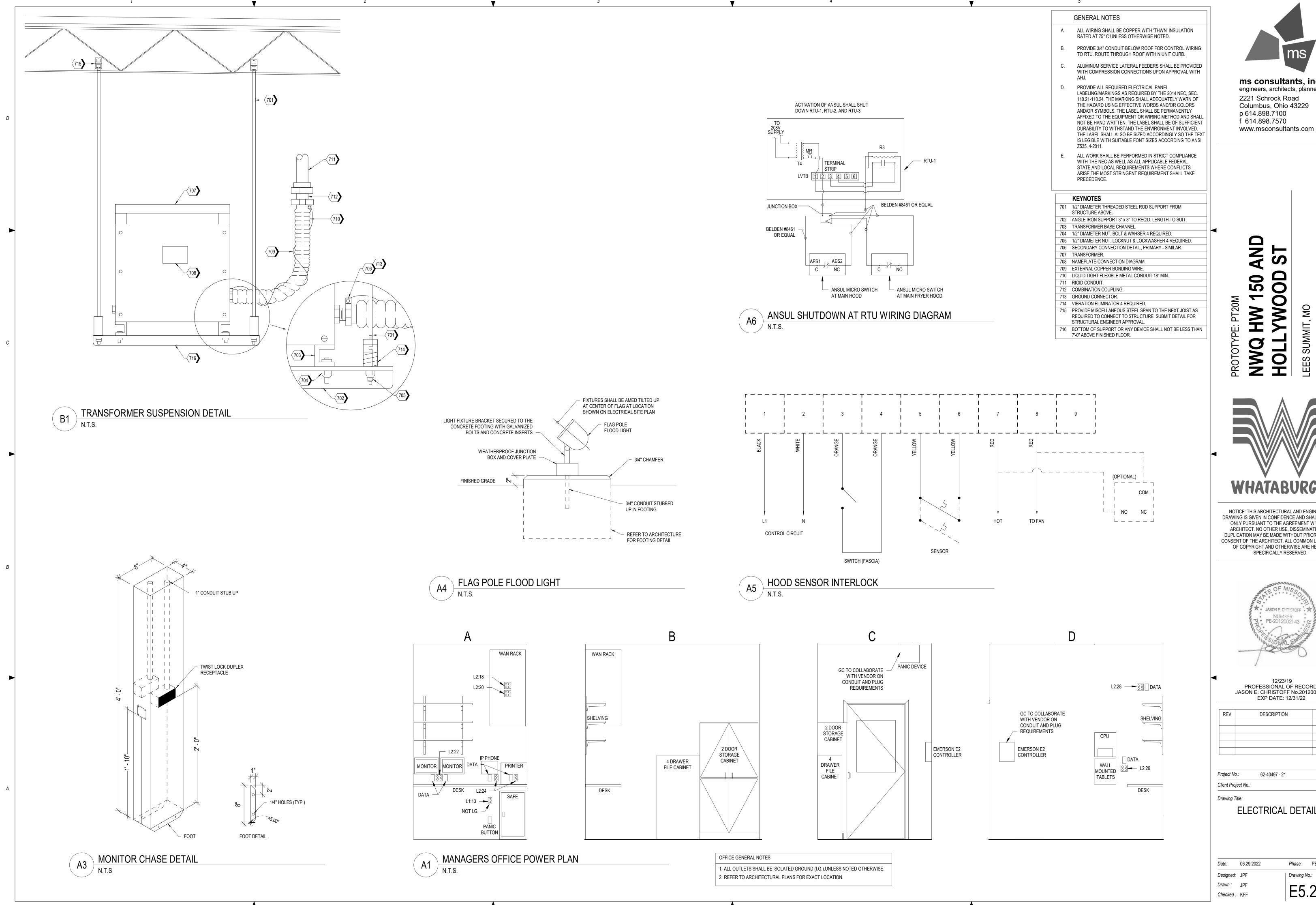
**ELECTRICAL DIAGRAMS** 

Phase: PERMIT SET Date: 06.29.2022 Designed: JPF Drawing No.:

Drawn: JPF Checked: KFF

E5.1







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12/23/19 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/22

62-40497 - 21

**ELECTRICAL DETAILS** 

Phase: PERMIT SET Drawing No.:

RTU1 Kitchen

MultiFlex88AO #1

Part #810-3063

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OUT1 OUT2 OUT3 OUT4 OUT5 OUT6 OUT7 OUT8

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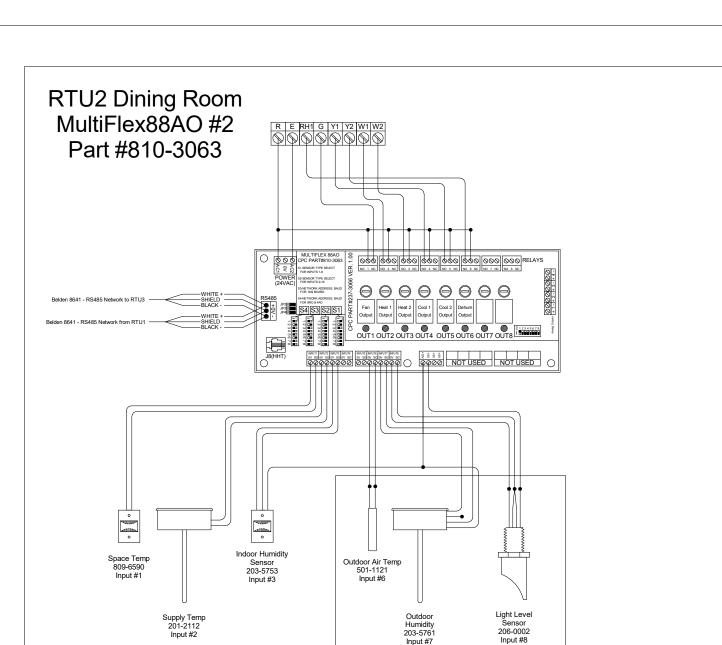
Belden 8641 - RS485 Network to RTU2

—WHITE + SHIELD BLACK - -

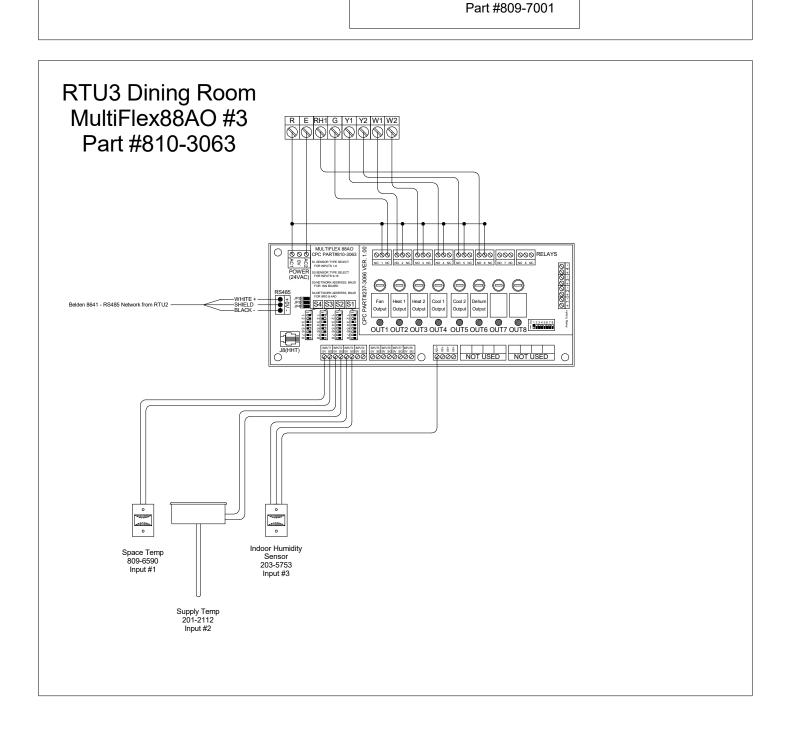
Space Temp 809-6590 Input #1

CONTROL SYSTEM DIAGRAM

CPC Lighting Relay Panel



CPC E2 Controller



WeatherStation

LEGEND WALL MOUNTED SPACE TEMP SENSOR (809-6590) DISCHARGE AIR TEMP SENSOR - 12" INSERTION PROBE W/ HANDY BOX (201-2112) RETURN AIR TEMP SENSOR- 12" INSERTION PROBE W/ HANDY BOX (201-2112) RETURN AIR HUMIDITY TRANSDUCER (203-5771) "BULLET" TYPE TEMP SENSOR W/ 10' GREEN LEADS AND "QUICK CONNECT" MOLEX PLUG (501-1134) OUTDOOR LIGHT LEVEL TRANSDUCER (206-0002) (INSTALLED ON WEATHER STATION BACK-PLATE) OUTDOOR AIR HUMIDITY TRANSDUCER (203-5761) (INSTALLED ON WEATHER STATION BACK-PLATE) "BULLET" TYPE OUTDOOR AIR TEMP SENSOR (501-1121) (INSTALLED ON WEATHER STATION BACK-PLATE) E2 CONTROLLER. MOUNTED FLUSH IN THE MANAGER'S OFFICE AT 5' AFF TO CENTER. INDOOR TEMPERATURE AND HUMDITY SENSOR. REFER TO MECH PLANS FOR EXACT LOCATION. "BMS-x-y" DENOTES THE I/O POINT DESCRIPTION FOR THE SENSOR, WHERE "X" IS THE CONTROLLER ADDRESS AND "Y" IS THE POINT

	BMS KEYED NOTES
1>	USE BELDEN 8641 OR EQUIVALENT (24GA - 2COND - SHIELDED).
2	USE BELDEN 8771 OR EQUIVALENT (22GA - 3COND - SHIELDED).
3	USE BELDEN CABLE OR EQUIVALENT (18GA - 8COND).
4	NOT USED.
5	MOUNT IN SUPPLY AIR RISER NO MORE THAN 6 FEET FROM HVAC UNIT.
6	NOT USED.
<del>\( \frac{1}{7} \)</del>	MOUNT "WEATHER STATION" BACK-PLATE TO A SECTION OF 1-1/4" EMT APPROXIMATELY 6 FEET ABOVE ROOF TO CLEAR PARAPET. "WEATHER STATION" BACK-PLATE <u>MUST</u> FACE TRUE NORTH.
8	ENSURE PROPER POLARITY ON HUMIDITY AND LIGHT LEVEL SENSORS.
9	DRILL 1/4" HOLE THROUGH CEILING OF WALK IN DIRECTLY HALFWAY BETWEEN THE EVAPORATOR AND THE WALL AND CENTERED ON THE EVAPORATOR. PUSH SENSOR TIP DOWN THROUGH HOLE FROM ABOVE AND SECURE SENSOR USING 2 SELF TAPPING SHEET METAL SCREWS.
10	CUT THE 335-2300 TEMP SENSOR EXTENSION CABLE IN HALF AND ATTACH THE FEMALE END TO THE BELDEN 8641. FEED THE CABLE THROUGH A 1/2" STRAIN RELIEF CONNECTOR SIMILAR TO THE TYPE USED FOR "SO" AND "SJ" CORD TO PREVENT DAMAGE TO THE CABLE.
11	INSTALL THE 501-1134 10' GREEN TEMP SENSOR ON THE DISCHARGE SIDE OF THE EVAPORATOR IN THE 3 DOOR SELF CONTAINED COOLER, ADJACENT TO THE TEMP PROBE FOR THE UNIT'S ELECTRONIC THERMOSTAT.
12	SURFACE MOUNT E2 CONTROLLER IN THE MANAGER'S OFFICE.
<del>(13)</del>	INSTALL THE "ONBOARD I/O" CARD (603-0500) IN THE E2 PER THE ENCLOSED INSTRUCTIONS.
(14)	NOT USED.
15>	RETURN AIR SENSOR SHALL BE LOCATED BEHIND THE EVAPORATOR IN THE PATH OF THE RETURN AIR FLOW.

ALL CONTROL SYSTEM COMPONENTS INCLUDING SENSORS, CONTROLLERS AND SOFTWARE ARE FURNISHED BY WHATABURGER. CONTRACTOR (OR DESIGNATED SUB) SHALL PROVIDE ALL CONDUIT AND POWER/CONTROL WIRING REQUIRED FOR A COMPLETELY FUNCTIONAL SYSTEM AS DESCRIBED BY E5.1 AND RELATED NOTES & SCHEDULES. HVAC UNITS ARE PROVIDED WITH AUDIO-VISUAL ALARMS AS DESCRIBED IN MECHANICAL PLANS.

### CONTROL SETPOINTS

TEMPERATURE AND HUMIDITY CONTROL COOLING/HEATING DINING: 74°F DB, 55% RH / 72°F DB

COOLING/HEATING KITCHEN: 74°F DB, 55% RH / 70°F DB DEADBAND: +/- 5°F

COOLING/HEATING SETBACK: 85°F / 60°F DB (SET-BACK 1-HR PRIOR TO OCCUPANCY IS ADJUSTED TO 80°F / 65°F DB).

ECONOMIZER WILL UTILIZE DIFFERENTIAL ENTHALPY CONTROL. ECONOMIZERS ARE CONTROLLED BY THE PRODIGY CONTROLLER ON THE LENNOX UNITS.

T) BMS-2-6 (1) 7 WALK-IN FREEZER R/A SMOKE DETECTORS FACTORY INSTALLED IN OH) BMS-2-7 (2) 7 8 BMS-1-7 RA 1 9 15 BMS-2-8 (2) 7 (8) - HVAC UNITS 5 1 DA BM<del>S-1-2</del> WEATHERSTATION WALK-IN COOLER BACKPLATE <u>KEF-1</u> (809-7001) RA 1 9 15 BMŠ-3-1-BMS-3-3-KEF-2 BMS-1-1— 8 2 BMS LIGHTING RELAY PANEL

CONTROL SYSTEM FLOOR PLAN

ms consultants, inc. engineers, architects, planners 2221 Schrock Road

Columbus, Ohio 43229 p 614.898.7100 f 614.898.7570 www.msconsultants.com

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01/06/21 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/22

DESCRIPTION	DATE
	DESCRIPTION

Project No.: 62-40497 - 21 Client Project No.:

Drawing Title:

CONTROL SYSTEMS PLAN

Phase: PERMIT SET 06.29.2022 Date: Designed: JPF Drawing No.:

Drawn: JPF Checked: KFF

E5.3

	EM	COLE	L215						
	F	TARGETTI	DL-1						
	J	KASON	KAS						
	\$1-2	TECHLITE	ÇTL-						
$\Lambda$ S	S1-3	TECHLITE	CTL-						
$\angle 1 $ $\{$	S1-3S	TECHLITE	CTL-						
·		TECHLITE TO	CTL-						
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	S2	BEGA	99 77						
	S3	LITHONIA [							
	S4	LITHONIA	TWX						
	S5	LITHONIA	OLBI						
	S6	LITHONIA	LDN4						
	S6E	LITHONIA	LDN						
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	TAG	DISCONNEC (AMP/VOLTAGE/POLE/							
		DISCO	NNFC						
		30A/2P/NF/							
	COOLER CU (28)								
	COOLER UC (28)	30A/1	P/NF/						
	EF-1		-						
	EWH-1		3P/NF						
	FREEZER CU (28)		P/NF/						
	FREEZER UC (28)	30A/2	P/NF/						
	KEF-1		-						
	KEF-2		-						
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	RTU-2		-						
	RTU-3		-						
	UH-1	30A/	2P/NF						
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			LIGHTING FIXTURE SCHEDULE						
PE MANUF	JFACTURER	MODEL	DESCRIPTION	LAMP	VOLTAGE	LUMENS	WATTS	MOUNTING	COMMENTS
A LIT	THONIA	2GTL 2 20L GZ10 LP840	2'X2' RECESSED TROFFER (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	2366	18	CEILING	
2 LIT	THONIA	2GTL 2 48L GZ10 LP840 ABC	GASKETED 2'X2' RECESSED TROFFER (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	5112	42	CEILING	
2E LIT	THONIA	2GTL 2 48L GZ10 LP840 E10WLCP ABC	GASKETED 2'X2' RECESSED TROFFER WITH 90 MINUTE BATTERY PACK (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	5112	42	CEILING	
E LIT	THONIA	2GTL 2 20L GZ10 LP840 E10WLCP	2'X2' RECESSED TROFFER WITH 90 MINUTE BATTERY PACK (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	2366	18	CEILING	
3 LIT	THONIA	LDN4SQ 40/10 LS4AR LSS MVOLT GZ10	4" RECESSED SQUARE LED DOWNLIGHT CLEAR, SEMI-SPECULAR REFLECTOR (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	877	11	CEILING	
1 LIT	THONIA	LDN4SQ 40/15 LS4AR LSS MVOLT GZ10	4" RECESSED SQUARE LED DOWNLIGHT CLEAR, SEMI-SPECULAR REFLECTOR (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	1268	18	CEILING	
1E LIT	THONIA	LDN4SQ 40/15 LS4AR LSS MVOLT GZ10 E10WCP	4" RECESSED SQUARE LED DOWNLIGHT CLEAR, SEMI-SPECULAR REFLECTOR WITH 90 MINUTE BATTERY PACK (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	1268	18	CEILING	
E LIT	THONIA	LDN4SQ 40/10 LS4AR LSS MVOLT GZ10 E10WCP	4" RECESSED SQUARE LED DOWNLIGHT CLEAR, SEMI-SPECULAR REFLECTOR WITH 90 MINUTE BATTERY PACK (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	877	11	CEILING	
E LIT	THONIA	CLX L48 3000LM SEF FDL MVOLT GZ10 40K 80CRI E10WLCP	48" INDUSTRIAL STRIP WITH 90MIN BATTERY BACKUP (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	2101	16	SURFACE	
) N	MARK	SL4L LOP 4FT FLP TG 80CRI 40K 600LMF MIN1 120 ZT	4' LINEAR RECESSED SLOT (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	2227	24	CEILING	
)1 N	MARK	SL4L OPP [LENGTH] FLP FL 80CRI 40K 600LMF MIN1 120 ZT (90DEG CORNERS)	LINEAR RECESSED SLOT, LENGTH AS INDICATED ON DRAWINGS (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	600/FT		CEILING	6 WATTS PER LINEAR FOOT
2 N	MARK	SL4L LOP 9FT FLP FL 80CRI 40K 600LMF MIN1 120 ZT	LINEAR RECESSED SLOT, LENGTH AS INDICATED ON DRAWINGS (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	600/FT	54	CEILING	6 WATTS PER LINEAR FOOT
3 N	MARK	SL4L LOP 11FT FLP FL 80CRI 40K 600LMF MIN1 120 ZT	LINEAR RECESSED SLOT, LENGTH AS INDICATED ON DRAWINGS (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	600/FT	66	CEILING	6 WATTS PER LINEAR FOOT
И С	COLE	L2156W-HO-2-J-B-EM	EMERGENCY STEP LIGHT WITH 90 MIN BATTERY BACKUP	LED	120 V	1290	22	WALL	WIRE AS EM LIGHT ONLY
TAF	ARGETTI	DL-120-A-35K-SC-B / DL120-JCVR65 / PRAP-U / KTPRU-CL	FLEXIBLE LINEAR LIGHT STRIP FOR CONTINUOUS CONSTANT COLOR (3500K COLOR TEMPERATURE)	LED	120 V	390/FT		SURFACE	4 WATTS PER LINEAR FOOT
KA	KASON	KASON 481-C (FIXTURE PROVIDED BY WALK-IN SUPPLIER)	VAPOR TIGHT LED FIXURE	LED	120 V		36	SURFACE	
-2	CHLITE	CTL-N-20L-T220.000 LUMEN TYPE 3 LED	POLE MOUNTED SITE LIGHTING (4100K COLOR TEMPERATURE)	LED	208 V	35000	150	POLE	FIXTURE MOUNTED AT 27'-6"
-3 TEC	CHLITE	CTL-N-20L-T220,000 LUMEN TYPE 3 LED CTL-N-35L-T335,000 LUMEN TYPE 3 LED	POLE MOUNTED SITE LIGHTING (4100K COLOR TEMPERATURE)	LED	208 V	35000	207	POLE	FIXTURE MOUNTED AT 27'-6"
SS TEC	CHLITE	CTL-N-35L-T3-S21530,000 LUMEN TYPE 3 LED	POLE MOUNTED SITE LIGHTING (4100K COLOR TEMPERATURE)	LED	208 V	35000	207	POLE	FIXTURE MOUNTED AT 27'-6"
4STUTE	CHLITE	CTL-N-30L-13-32-13-30,000 LOIMEN TIFE 3 LLD	CTL-N-20L-T420,000 LUMEN TYPE 4 LED - POLE MOUNTED SITE LIGHTING	LED	208 V	40000	150	POLE	FIXTURE MOUNTED AT 27'-6"
5-3 TEC	CHLITE	CTL-N-35L-T5W35,000 LUMEN TYPE 5 LED	POLE MOUNTED SITE LIGHTING (4100K COLOR TEMPERATURE)	LED	208 V	35000	882	POLE	FIXTURE MOUNTED AT 27'-6"
2 B	BEGA	99 777 SLV / 84/623 SLV	LED BOLLARD. (4000K COLOR TEMPERATURE)	LED	120 V	768	34	BOLLARD	
3 LIT	THONIA	DSXW1 10C 530 40K T3M MVOLT DDBXD	FAÇADE EXTERIOR WALL PACK. (4000K COLOR TEMPERATURE)	LED	120 V	2010	19	WALL	WALL MOUNTED 12'-0" ABOVE GRADE
LIT	THONIA	TWX1 LED P2 40K MVOLT DDBXD	ROOFTOP MAINTENANCE LIGHT LOCATED BEHIND RTU SCREEN WALL(4000K COLOR TEMPERATURE)	LED	120 V	2950	22	WALL	TOP OF FIXTURE, WALL MOUNTED 1'-0" BELOW SCREEN WALL
i LIT	THONIA	OLBF 8 30K DDB	LED FLAG POLE BULLET FLOOD LIGHT (3000K COLOR TEMPERATURE)	LED	120 V	592	11	FLOOD	
LIT	THONIA	LDN4SQ 40/15 LS4AR LSS MVOLT GZ10	4" RECESSED SQUARE LED DOWNLIGHT CLEAR, SEMI-SPECULAR REFLECTOR (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	1516	18	CEILING	
E LIT	THONIA	LDN4SQ 40/15 LS4AR LSS MVOLT GZ10	4" RECESSED SQUARE LED DOWNLIGHT CLEAR, SEMI-SPECULAR REFLECTOR WITH 90 MINUTE REMOTE BATTERY PACK(4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	1516	18	CEILING	REMOTE BATTERY PACK PS1055CPFMC
( LIT	THONIA	LRP 1 RC 120/277 EL N	EXIT SIGN	LED	120 V	5	2	CEILING	

TAG	DISCONNECT RATING (AMP/VOLTAGE/POLE/FUSE/NEMA RAITING)	HP	kW	FLA	STARTER TYPE	VOLTAGE/POLES	LOAD	CIRCUIT NUMBER	WIRE & CONDUIT	COMMENTS
COOLER CU (28)	30A/2P/NF/NEMA 3R	1	-	15	-	208 V/2	3120 VA	MDP-36,38	2#12, #12 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS
COOLER UC (28)	30A/1P/NF/NEMA 3R	-	-	1.6	-	120 V/1	192 VA	L1-46	2#12, #12 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS
EF-1	-	1/8	-	-	-	120 V/1	400 VA	L1-4	2#12, #12 GND IN 3/4"C	INTEGRAL DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER
EWH-1	60A/3P/NF/NEMA 1			41.6		208 V/3	14987 VA	MDP-20,22,24	3#6, #10 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS
FREEZER CU (28)	60A/2P/NF/NEMA 3R	3	-	25	-	208 V/2	5200 VA	MDP-32,34	2#8, #10 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS
FREEZER UC (28)	30A/2P/NF/NEMA 3R	-	-	9.8	-	208 V/2	2038 VA	L1-53,55	2#12, #12 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS
KEF-1	-	-	-	11.6	-	208 V/2	2413 VA	MDP-37,39	2#12, #12 GND IN 3/4"C	INTEGRAL DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER
KEF-2	-	-	-	6.5	-	208 V/2	1352 VA	MDP-41,43	2#12, #12 GND IN 3/4"C	INTEGRAL DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER
RTU-1	-	5	-	146	-	208 V/3	67869 VA	MDP-31,33,35	3#1/0, #6 GND IN 1-1/2"C	INTEGRAL DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER
RTU-2	-	3	-	92	-	208 V/3	61371 VA	MDP-25,27,29	3#3, #8 GND IN 1"C	INTEGRAL DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER
RTU-3	-	3	-	92	-	208 V/3	61371 VA	MDP-19,21,23	3#3, #8 GND IN 1"C	INTEGRAL DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER
UH-1	30A/2P/NF/NEMA 1	-	1.5	-	-	208 V/2	1500 VA	MDP-40,42	2#12, #12 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS

		DISC. MEAN / MOUNTING								
	DESCRIPTION	HEIGHT	HP	kW	FLA	VOLTAGE/POLES	LOAD 960 VA	CIRCUIT NUMBER	WIRE & CONDUIT	UNDER COUNTER COMMENTS
	DUAL SIDED DRINK DISPENSER  DRIVE THRU DRINK DISPENSER	5-20R / - 5-20R / 24"	-	-	-	120 V/1 120 V/1	960 VA 624 VA	L1-25 L1-17	2#12, #12 GND IN 3/4"C 2#12, #12 GND IN 3/4"C	UNDER COUNTER
	ICE MANAGER	5-20R / 96	_		5	120 V/1	600 VA	L1-17	2#12, #12 GND IN 3/4"C	
	ICE MAKER EVAPORATOR UNIT	5-20R / 66"	-	-	6	120 V/1	720 VA	L1-73	2#12, #12 GND IN 3/4"C	
	ICE MAKER EVAPORATOR UNIT	5-20R / 66"	-	-	6	120 V/1	720 VA	L1-77	2#12, #12 GND IN 3/4"C	
	ICE MAKER CONDENSING UNIT	30A/3P/NF/NEMA 3R / -	-	-	14	208 V/3	5044 VA	MDP-50,52,54	3#10, #10 GND IN 3/4"C	30A/3P/NF/NEMA 3R
	ICE MAKER CONDENSING UNIT	30A/3P/NF/NEMA 3R / -	-	-	14	208 V/3	5044 VA	MDP-44,46,48	3#10, #10 GND IN 3/4"C	30A/3P/NF/NEMA 3R
	MULTIPLEX REFRIGERATION UNIT	30A/3P/NF/NEMA 1 / 72"	-	-	25.2	208 V/3	9079 VA	L1-79,81,83	3#10, #10 GND IN 3/4"C	COA/ODINICINICAL OD
	MULTIPLEX CONDENSER UNIT	30A/2P/NF/NEMA 3R / -	-	-	1.3	208 V/2 120 V/1	270 VA	MDP-45,47	2#12, #12 GND IN 3/4"C	30A/2P/NF/NEMA 3R
	BEVERAGE PUMP REACH IN FREEZER	5-20R / 60" 5-20R / 76"	1/2	-	11.3	120 V/1	720 VA 1040 VA	L1-61 L1-26	2#12, #12 GND IN 3/4"C 2#12, #12 GND IN 3/4"C	+60"
	REACH IN REFRIGERATOR	5-20R / 76"	1/3		8.5	120 V/1	644 VA	L1-70	2#12, #12 GND IN 3/4"C	
	REACH IN REFRIGERATOR	5-20R / 76"	1/3	-	8.5	120 V/1	644 VA	L1-16	2#12, #12 GND IN 3/4"C	
	REACH IN REFRIGERATOR	5-20R / 76"	1/3	-	8.5	120 V/1	644 VA	L1-66	2#12, #12 GND IN 3/4"C	
	REACH IN REFRIGERATOR	5-20R / 76"	1/3	-	8.5	120 V/1	644 VA	L1-68	2#12, #12 GND IN 3/4"C	
	SUPER COOLER	L14-20R / 76"	1	-	11	208 V/2	1830 VA	L1-42,44	2#12, #12 GND IN 3/4"C	
	UNDER COUNTER REFRIGERATOR	-1-	1/6	-	4	120 V/1	480 VA	K2-25	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	UNDER COUNTER REFRIGERATOR	- / - 5-20R /	1/6	-	4	120 V/1 120 V/1	480 VA 480 VA	K2-19 L1-8	- 2#12. #12 GND IN 3/4"C	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	UNDER COUNTER REFRIGERATOR PITCO FRYER	5-20R / 6-50R / -	1/6	-	39.7	120 V/1 208 V/2	480 VA 8258 VA	L1-8 K1-1,3	2#12, #12 GND IN 3/4 C	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	PITCO FRYER	6-50R / -	-		39.7	208 V/2	8258 VA	K1-1,3	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	PITCO FRYER	15-60R / -	-	-	54.6	208 V/3	19670 VA	K4-1,3,5	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	PITCO FRYER	15-60R / -	-	-	47.2	208 V/3	17004 VA	K4-2,4,6	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	FOOD WARMER	-1-	-	-	12	120 V/1	1440 VA	K1-7	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	FOOD WARMER	-1-	-	-	8.5	120 V/1	1032 VA	K1-11	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	FOIL HEATER	-/-	-	-	2	120 V/1	240 VA	K1-8	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	COMPACT FREEZER UNDER COUNTER REFRIGERATOR	5-20R / - 5-20R / -	-	-	3.5	120 V/1 120 V/1	960 VA 420 VA	K1-17 K1-19	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.  PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	PITCO FRYER	5-20R / - 15-60R / -	-	-	54.6	208 V/3	19670 VA	K1-19 K1-14,16,18	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.  PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	MICROWAVE	5-20R / 24"	-	1.6	14	120 V/1	19070 VA	L1-34	2#12, #12 GND IN 3/4"C	TREWINES STRITOFIER EQUITIVIER INFINITIONER.
	HALF-SIZED CONVECTION OVEN	15-30R / -	-	7.8	22.1	208 V/3	7800 VA	L1-72,74,76	3#10, #10 GND IN 3/4"C	
	GRAVY WARMER	5-20R / 24"	-	-	10	120 V/1	1200 VA	L1-36	2#12, #12 GND IN 3/4"C	
	HOT FOOD WELL	5-20R / -	-	-	5	120 V/1	600 VA	K2-11	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	HEATED TOP	5-20R / -	-	-	7.2	120 V/1	864 VA	K2-1	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	HOT FOOD WELL	5-20R / -	-	-	5	120 V/1	600 VA	K2-13	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	COLD RAIL DUKE WARMING BIN	5-20R / - L6-15R / -	-	1.8	8.7	120 V/1 208 V/2	960 VA 1810 VA	K2-29 K2-7,9	- 2#12, #12 GND IN 3/4"C	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	DUKE WARMING BIN	L6-15R / - L6-15R / -	-	1.8	8.7	208 V/2 208 V/2	1810 VA 1810 VA	K2-7,9 K2-15,17	2#12, #12 GND IN 3/4 C 2#12, #12 GND IN 3/4"C	
	BUN TOASTER	-/-	-	-	16	208 V/2	3328 VA	K2-13,17		PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	BUN TOASTER	-/-	-	-	16	208 V/2	3328 VA	K2-6,8	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
_	6' GRILL	-1-	-	-	50	208 V/3	18013 VA	K2-14,16,18	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	6' GRILL	-1-	-	-	50	208 V/3	18013 VA	K2-20,22,24	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	6' GRILL	-/-	-	-	50	208 V/3	18013 VA	K3-1,3,5	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	6' GRILL	-/-	-	-	50	208 V/3	18013 VA	K3-2,4,6	- 01140 1140 0215 111 0417	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER.
	GRILL TIMERS	-/- 5.20D./42"	-	-	-	120 V/1	180 VA	L1-59	2#12, #12 GND IN 3/4"C	
	PIE CABINET SHAKE MACHINE	5-20R / 42" 6-20R / 24"	-	-	13	120 V/1 208 V/2	504 VA 2704 VA	L1-32 L1-49,51	2#12, #12 GND IN 3/4"C 2#12, #12 GND IN 3/4"C	
	COFFEE BREWER	6-20R / 24 L14-30R / 24"	-	5.1	- 13	208 V/2 208 V/2	5100 VA	L1-49,51 L1-56,58	2#10, #10 GND IN 3/4"C	
	TEA BREWER	5-20R / 24"	-	1.65	-	120 V/1	1650 VA	L1-33	2#10, #10 GND IN 3/4 C	
	MOBILE GREASE CADDY	5-20R / -	1/4		5.8	120 V/1	696 VA	L1-19	2#12, #12 GND IN 3/4"C	
	GREASE TANK	5-20R / 66"	-	-	-	120 V/1	500 VA	L1-64	2#12, #12 GND IN 3/4"C	
		HUBBELL IG4700A DRIG / -	-	-	-	120 V/1	180 VA	L2-10	2#12, #12 GND IN 3/4"C	
		HUBBELL IG4700A DRIG / -	-	-	-	120 V/1	180 VA	L2-10	2#12, #12 GND IN 3/4"C	
		HUBBELL IG4700A DRIG / -	-	-	-	120 V/1	180 VA	L2-10	2#12, #12 GND IN 3/4"C	
	FLAT SCREEN MONITOR	HUBBELL IG4700A DRIG / -	-	-	-	120 V/1	180 VA	L2-10	2#12, #12 GND IN 3/4"C	
	FLAT SCREEN MONITOR FLAT SCREEN MONITOR	HUBBELL IG4700A DRIG / - HUBBELL IG4700A DRIG / -	-	-	-	120 V/1 120 V/1	180 VA 180 VA	L2-14 L2-14	2#12, #12 GND IN 3/4"C 2#12, #12 GND IN 3/4"C	
		HUBBELL IG4700A DRIG / -	-	-	-	120 V/1 120 V/1	180 VA 180 VA	L2-14 L2-13	2#12, #12 GND IN 3/4"C 2#12, #12 GND IN 3/4"C	
		HUBBELL IG4700A DRIG / -	-		<del>-</del>	120 V/1	180 VA	L2-13 L2-15	2#12, #12 GND IN 3/4 C	
		HUBBELL IG4700A DRIG / -	-	-	-	120 V/1	180 VA	L2-15	2#12, #12 GND IN 3/4"C	
		HUBBELL IG4700A DRIG / -	-	-	-	120 V/1	180 VA	L2-15	2#12, #12 GND IN 3/4"C	
	FLAT SCREEN MONITOR	HUBBELL IG4700A DRIG / -	-	-	-	120 V/1	180 VA	L2-15	2#12, #12 GND IN 3/4"C	
	FLAT SCREEN MONITOR	HUBBELL IG4700A DRIG / -	-	-	-	120 V/1	180 VA	L2-21	2#12, #12 GND IN 3/4"C	
	FLAT SCREEN MONITOR	5-20R / 24"	-	-	-	120 V/1	180 VA	L2-13	2#12, #12 GND IN 3/4"C	
	WALL MOUNTED HOT HOLD	5-20R / 24"	-	-	13	120 V/1	1500 VA	L1-30	2#12, #12 GND IN 3/4"C	

### LIGHTING SCHEDULE NOTE

ELECTRICAL CONTRACTOR BIDDERS MUST CONTACT CORPORATE ACCOUNTS @ ALA FOR ALL LIGHTING AND LIGHTING CONTROLS BIDS AT 214-658-9000, CORPORATEACCOUNTS@ALATX.COM WHATABURGER IS A REGISTERED NATIONAL ACCOUNT (NA) VIA ARCHITECTURAL LIGHTING ALLIANCE (ALA) AND HORTON CONTROLS GROUP (HCG).



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HW 150 AND
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PROTOTYPE: PT20M NWQ HW YHOLLYWC



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11/25/19 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/22

08/03/22
-

Project No.: 62-40497 - 21

Client Project No.:

rowing Title:

ving Title:

ELECTRICAL SCHEDULES

 Date:
 06.29.2022
 Phase:
 PERMIT SET

 Designed:
 JPF
 Drawing No.:

Drawn: JPF
Checked: KFF

F E6

1. PER NEC ARTICLE 220

	Pane	el: M	IDP	)										
Location: DRY STORAGE 111 Supply From: Mounting: SURFACE				Volts: 12 Phases: 3 Wires: 4	20/208 Wye	•		Mains Ty Bus Rati	<b>pe</b> : MLO <b>ng:</b> 800 A				A.I.C. Rating: 65,0	00
СКТ	Circuit Description	Trip	Poles		4		В		C	Poles	Trip	Circuit	: Description	СКТ
1	PANEL 'L1'	225 A	3	21786 VA	2700 VA					3	60 A	XFMR T1 (PANE	EL 'L2')	2
3						20123	3420 VA							4
5								17901 VA	1980 VA					6
7	PANEL 'K1'	200 A	3	12785 VA	18665 VA					3	200 A	PANEL 'K2'		8
9						14814	15482							10
11								13278 VA	16497 VA					12
13	PANEL 'K3'	125 A	3	12009 VA	12225 VA					3		PANEL 'K4'		14
15						12009	12225	40000144	40005344					16
17	DTIL 0	475.4		004571/4	4000 \ / 4			12009 VA	12225 VA					18
19	RTU-3	175 A	3	20457 VA	4996 VA	20457	4000 \/A			3	60 A	EWH-1		20
21	<del>-</del>					20457	4996 VA	20457.\/A	4006 \/A			<b></b>		22
23 25	RTU-2	175 A	3	20457 VA	1200 \/A			20457 VA	4996 VA	3	30 A	TRASH COMPA	CTOR	24 26
27	K10-2	1/3 A		20457 VA	1300 VA	20457	1300 VA				30 A	TRASH COMPA	CTOR	28
29						20457	1300 VA	20457 VA	1300 \/A					30
31	RTU-1	225 A	3	22623 VA	2600 \/A			20437 VA	1300 VA	2	40 A	FREEZER CONI	DENSER	32
33				22025 VA	2000 VA	22623	2600 VA						JENOEIX	34
35						22020	2000 VA	22623 VA	1560 VA	2	20 A	COOLER COND	FNSFR	36
37	KEF-1	20 A	2	1206 VA	1560 VA			ZZOZO VI	1000 771				LITOLIT	38
39				1200 171	1000 171	1206 VA	750 VA			2	20 A	UH-1		40
41	KEF-2	20 A	2					676 VA	750 VA					42
43				676 VA	1681 VA					3	25 A	ICE MAKER CO	NDENSING UNIT (14d)	44
45	MULTIPLEX CONDENSER UNIT (17b)	20 A	2			135 VA	1681 VA						,	46
47	-							135 VA	1681 VA					48
49	BUSSED SPACE			0 VA	1681 VA					3	25 A	ICE MAKER CO	NDENSING UNIT (14c)	50
51	BUSSED SPACE					0 VA	1681 VA						, ,	52
53	BUSSED SPACE							0 VA	1681 VA					54
55	SPD	60 A	3	180 VA	0 VA							BUSSED SPACE	<u> </u>	56
57						180 VA	0 VA					BUSSED SPACE	=	58
59								180 VA	0 VA			BUSSED SPACE	Ξ	60
		Total	Load:	1595	87 VA	1561	36 VA	1503	82 VA					
Load (	Classification		Con	nected Lo	ad C	esign Fa	ctor	Estimated	Demand			Panel	Totals	
HVAC			2	00176 VA		100.00%	6	20017	6 VA					
Kitcher	n Equipment		2	18922 VA		65.00%	)	14229	9 VA		To	tal Conn. Load:	466106 VA	
Lightin				8993 VA		125.00%	6	11241	I VA		Tot	al Est. Demand:	392256 VA	
	Continuous			2130 VA		125.00%		2663				Conn. Current:		
	Ion-Continuous			15467 VA		100.00%		15467		Tota		emand Current:		
Recep				9540 VA		100.00%		9540		- 3.0				
Refrige				10910 VA		100.00%		10910						
Notes				• • •		,								

	Pane	el: L	2											
\$	Location: DRY STORAGE 111 Supply From: MDP Mounting: SURFACE		Volts: 120/208 Wye Phases: 3 Wires: 4					Mains Type: MCB Bus Rating: 100 A MCB Rating 50 A					A.I.C. Rating:	10,000
СКТ	Circuit Description	Trip	Poles		A		В		С	Poles	Trip	Circui	t Description	СК
1	POINT OF SALE (DRIVE THRU-3) [4]	20 A	1	180 VA	360 VA					1	20 A	POINT OF SALE	(DINING)	2
3	POINT OF SALE (DRIVE THRU-3) [4]	20 A	1			180 VA	360 VA			1	20 A	POINT OF SALE	(DINING)	4
5	POINT OF SALE (DRIVE THRU-2)	20 A	1					360 VA	360 VA	1	20 A	POINT OF SALE	(DINING)	6
7	POINT OF SALE (DRIVE THRU-2)	20 A	1	360 VA	0 VA					1	20 A	SPARE		8
9	MENU BOARD	20 A	1			540 VA	720 VA			1	20 A	ORDER SCREE	NS (107a) [4]	10
11	SPARE	20 A	1					0 VA	180 VA	1	20 A	FLAT PANEL DI	SPLAY	12
13	ORDER SCREENS (129/107c) [4]	20 A	1	360 VA	360 VA					1	20 A	ORDER SCREE	N (107b) [4]	14
15	ORDER SCREEN (107d) [4]	20 A	1			720 VA	0 VA			1	20 A	SPARE		16
17	POINT OF SALE (DRIVE THRU-1)	20 A	1					360 VA	360 VA	1	20 A	WAN RACK		18
19	POINT OF SALE (DRIVE THRU-1)	20 A	1	360 VA	360 VA					1	20 A	WAN RACK		20
21	ORDER SCREEN (107e)	20 A	1			180 VA	360 VA			1	20 A	MONITORS		22
23	BUSSED SPACE							0 VA	360 VA	1	20 A	PHONE/PRINTE	:R	24
25	BUSSED SPACE			0 VA	360 VA					1	20 A	TABLETS		26
27	BUSSED SPACE					0 VA	360 VA			1	20 A	SHELF RECEP	Γ	28
29	BUSSED SPACE							0 VA	0 VA			BUSSED SPAC	Ξ	30
31	BUSSED SPACE			0 VA	0 VA							BUSSED SPAC	<u> </u>	32
33	BUSSED SPACE					0 VA	0 VA					BUSSED SPAC	Ξ	34
35	BUSSED SPACE							0 VA	0 VA			BUSSED SPAC	Ξ	36
37	BUSSED SPACE			0 VA	0 VA							BUSSED SPAC	Ξ	38
39	BUSSED SPACE					0 VA	0 VA					BUSSED SPAC	<u> </u>	40
41	BUSSED SPACE							0 VA	0 VA			BUSSED SPAC	Ξ	42
		Total	Load:	270	0 VA	342	0 VA	198	0 VA					
Load C	Classification		Conr	nected Lo	ad	Design Fa	ctor	Estimated	Demand			Panel	Totals	
Kitcher	n Equipment		2	2340 VA		65.00%	,	1521	VA					
Recept	acle			5760 VA		100.009	6	5760	) VA		To	otal Conn. Load:	8100 VA	
												al Est. Demand:		
												I Conn. Current:		
										T-4-				
Notes:										lota	ı EST. L	emand Current:	20 A	

ELECTICAL LOAD ANALYSIS											
			WHATABURGE	R PT20							
BASED ON NEC TABLE 220.88											
SYSTEM VOLTAGE: 208Y/120V, 3-PHASE, 4 WIRE + GRD.											
TOTAL CONNECTED	50% AMOUNT	ADD 172.5	ESTIMATED	10%	ESTIMATED SERVICE	ESTIMATED					
LOAD	OVER 325 kVA	kVA	SUB-TOTAL	SPARE	RATING (VA)	SERVICE RATING (A)					
466106 VA	70553 VA	172500 VA	243053 VA	24305 VA	267358 VA	742.1 A					

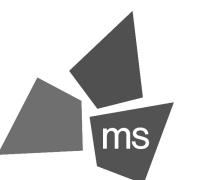
	Pane	.I. I	1											
5	Pane Location: DRY STORAGE 111 Supply From: MDP Mounting: SURFACE	PI: L	_	Volts: 12 hases: 3 Wires: 4	20/208 Wye			Mains Typ Bus Ratir					A.I.C. Rating: 42.0	000
СКТ	Circuit Description	Trip	Poles		Ą		В		<u> </u>	Poles	Trip	Circuit	: Description	C
1	EXIT LIGHTING	20 A	1	28 VA	95 VA				-	1	•		ERIOR BUILDING)	
3	BELL AND BUZZER	20 A	1		00 17 1	20 VA	400 VA			1		EF-1 (RESTRO	· · · · · · · · · · · · · · · · · · ·	+
5	LIGHTING (BATHROOM)	20 A	1					85 VA	132 VA	1		ROOF LIGHTING		+
7	MONUMENT RECEPTACLE	20 A	1	180 VA	480 VA			00 171		1	20 A		ER REFRIGERATOR	t
9	TRAINING SPACE	20 A	1	.00 171	.00	180 VA	500 VA			1	20 A	"W" SIGNAGE [3		$\dagger$
11	LIGHTING (SERVICE)	20 A	1			100 171	000 171	193 VA	540 VA	1		-	POSE RECEPTACLE	+
13	OFFICE RECEPTACLE	20 A	1	180 VA	627 VA			100 171	010 171	1			OPY LIGHTING [3]	+
15	DRIVE THRU CANOPY LIGHTS [3]	20 A	1	100 771	OZI VI	88 VA	644 VA			1		REACH IN REF		+
17	DRIVE THRU DRINK DISPENSER	20 A	1				011 171	624 VA	929 VA	1		LIGHTING (DINI		+
19	MOBILE GREASE CADDY	20 A	1	696 VA	180 VA			32 1 V/ (	J_5 V/(	1		CONDENSER C	,	+
21	FIRE ALARM CONTROL PANEL [1]	20 A	1			180 VA	1080 VA			1		ROOFTOP REC		+
23	LIGHTING (KITCHEN)	20 A	1			.55 VA	.550 77	883 VA	0 VA	1		SPARE	,	+
25	DUAL SIDED DRINK DISPENSER	20 A	1	960 VA	1040 VA			000 171	O V/ (	1		REACH IN FREE		+
27	DRIVE THRU AUDIO RECEPTACLES	20 A	1	300 V/1	1040 171	180 VA	147 VA			1		BOLLARD/FLAG		+
29	DRIVE THRU WINDOW	20 A	1			100 171	117 77	360 VA	1500 VA	1		HOT HOLD CAE		+
31	HOT HOLD CABINET	20 A	1	1500 VA	504 VA			000 171	1000 771	1		PIE CABINET		+
33	TEA BREWER	20 A	1	1000 171	004 V/(	1650 VA	1000 VA			1		MICROWAVE		+
35	TOUCH FREE VALVES	20 A	1			1000 VA	1000 77	100 VA	1200 VA	1		GRAVY WARME	:R	+
37	SPARE	20 A	1	0 VA	500 VA			100 VA	1200 VA	2	20 A		R" PYLON SIGN [3]	+
		20 A	1	UVA	300 VA	500 VA	500 VA					WHATABURGE	IN PILON SIGN [3]	+
39	MENU BOARD LIGHTING (EXTR) [3]					500 VA	500 VA	600 VA	915 VA		 20. A	SUPER COOLE	D [4]	+
41	ICE MANAGER	20 A	1	270 \/A	015 \/A			600 VA	915 VA	2	20 A		₹ [4]	+
43	HOOD HEAT SENSOR CTRL(KEF1&2)			270 VA	915 VA	0.1/4	400 \ / A						2001 ED	+
45	SPARE	20 A	1			0 VA	192 VA		0.1/4	1	20 A	COOLER UNIT	JOULER	+
47	LIGHTING RELAY PANEL	20 A	1	4050 \ / 4	0.1/4			180 VA	0 VA	1	20 A	SPARE		+
49	SHAKE MACHINE [4]	20 A	2	1352 VA	0 VA	4050 \ / 4	0.1/4			1	20 A	SPARE		+
51						1352 VA	0 VA	4040 \ / A	0.1/4	1		SPARE		+
53	FREEZER UNIT COOLER	20 A	2	4040 \ / 4	05501/4			1019 VA	0 VA	1		SPARE	ED (4)	+
55	 ODA DE			1019 VA	2550 VA	0.1/4	05501/4			2	30 A	COFFEE BREW	ER [4]	+
57	SPARE	20 A	1			0 VA	2550 VA		400 \ / 4				4000000 40501/14	+
59	GRILL TIMERS	20 A	1					180 VA	180 VA	1		,	ASS 2 30mA GFCI) [4]	$\perp$
61	BEVERAGE PUMP	20 A	1	720 VA	500 VA					1	20 A	"WHATABURGE	R" SIGNAGE [3]	$\perp$
63	IRRIGATION CONTROLLER	20 A	1			180 VA	500 VA			1	20 A	GREASE TANK		$\perp$
65	"WHATABURGER" SIGNAGE [3]	20 A	1					500 VA	644 VA	1		REACH IN REF		_
67	"W" SIGNAGE [3]	20 A	1	500 VA	644 VA					1		REACH IN REF		_
69	"W" SIGNAGE [3]	20 A	1			500 VA	644 VA			1		REACH IN REF	RIGERATOR	+
71	SPARE	20 A	1					0 VA	2600 VA	3		OVEN [4]		1
73	ICE MAKER EVAPORATOR UNIT	20 A	1	720 VA	2600 VA									1
75	GENERAL PURPOSE RECEPTACLE	20 A	1			720 VA	2600 VA							1
77	ICE MAKER EVAPORATOR UNIT	20 A	1					720 VA	0 VA	1	20 A	SPARE		_
79	MULTIPLEX REFRIGERATION UNIT	30 A	3	3026 VA	0 VA					1	20 A	SPARE		_
81						3026 VA	875 VA			2	20 A	PARKING LOT L	IGHTING [3]	1
83								3026 VA	875 VA					$\perp$
		Total	Load:		86 VA		23 VA	1790						
	Classification			nected Loa	ad D	esign Fa		Estimated				Panel	Totals	
IVAC				400 VA		100.00%	6	400 \	<b>/</b> A					
itcher	n Equipment		4	2963 VA		65.00%	,	27926	VA		To	otal Conn. Load:	59808 VA	
ightin	g 		8	8993 VA		125.00%	6	11241	VA		Tot	al Est. Demand:	47173 VA	
	Continuous			630 VA		125.00%		788 \			Tota	I Conn. Current:	166 A	_
	Ion-Continuous			480 VA		100.00%		480 \		Tota		emand Current:		
Recept				3780 VA		100.00%		3780		. 514				_
Refrige				2590 VA		100.00%		2590						—
90	111		-		1	/	1	_555		i .				

### **GENERAL NOTES**

- A. ALL FIRE ALARM CIRCUITS SHALL REQUIRE A LOCK-ON DEVICE. SHALL HAVE RED IDENTIFICATION AND IDENTIFIED AS FIRE ALARM CIRCUIT PER NEC760.41 (A) &(B) AND NFPA 72.10.6.5.3 AND NFPA 72.10.6.5.4.
- B. ALL PANELS SHALL HAVE LOCKABLE DOORS.

### PANELBOARD NOTES [X]

- 1. PROVIDE LOCK-ON DEVICE.
- 2. WIRE SIZE SHOWN ON ONE-LINE.
- 3. ROUTE THROUGH LIGHTING CONTACTOR.
- 4. PROVIDE GFCI TYPE BREAKER. 5. ROUTE THROUGH LIGHTING CONTROL PANEL.
- 6. CIRCUIT SHALL BE WIRED INTO THE ANSUL SYSTEM.



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PROTOTYPE: I



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11/25/19 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/22

	REV	DESCRIPTION	DATE

Project No.: 62-40497 - 21

Client Project No.:

Drawing Title:

ELECTRICAL PANEL SCHEDULES

Date: 06.29.2022 Phase: PERMIT SET Designed: JPF Drawing No.:

	Par	nel: K	(1											
Location: DINING ROOM 100 Supply From: MDP			Volts: 208Y/120V Phases: 3 Wires: 4					Mains Type: MLO Bus Rating: 200 A				<b>A.I.C. Rating:</b> 22,000		
СКТ	Circuit Description	Trip	Poles		4		В		C	Poles	Trip	Circuit	t Description	скт
1	PICTO FRYER SE14TE [6]	50 A	2	4129 VA	0 VA							BUSSED SPACE	<b>=</b>	2
3						4129 VA	4129 VA			2	50 A	PICTO FRYER S	SE14TE [6]	4
5	ANSUL FIRE SUPPRESSION	15 A	1					600 VA	4129 VA					6
7	FOOD WARMER	20 A	1	1440 VA	240 VA					1	15 A	FOIL HEATER		8
9	OPEN HIGH LEG					0 VA	0 VA					OPEN HIGH LEG		10
11	FOOD WARMER	20 A	1					1032 VA	0 VA			BUSSED SPACE		12
13	BUSSED SPACE			0 VA	6557 VA					3	70 A	PICTO FRYER S	SE184 [6]	14
15	OPEN HIGH LEG					0 VA	6557 VA							16
17	COMPACT FREEZER	20 A	1					960 VA	6557 VA					18
19	REFRIGERATOR	20 A	1	420 VA	0 VA							BUSSED SPACE	<u> </u>	20
21	OPEN HIGH LEG					0 VA	0 VA					OPEN HIGH LEG		22
23	BUSSED SPACE							0 VA	0 VA			BUSSED SPACE		24
25	BUSSED SPACE			0 VA	0 VA							BUSSED SPACE		26
27	OPEN HIGH LEG					0 VA	0 VA					OPEN HIGH LEG		28
29	BUSSED SPACE							0 VA	0 VA			BUSSED SPACE	<u> </u>	30
		Total	Load:	1278	B5 VA	148	14 VA	1327	'8 VA					
Load (	Classification		Con	nected Lo	ad C	Design Fa	ctor	Estimated	Demand			Panel	Totals	
Kitcher	n Equipment		4	0278 VA		65.00%	ó	26180	) VA					
Misc. C	Continuous			600 VA		125.009	%	750	VA		To	otal Conn. Load:	40878 VA	
											Tot	al Est. Demand:	26930 VA	
											Tota	I Conn. Current:	113 A	
										Tota		emand Current:		
Notes:					1					1				
2. HIG	R NEC ARTICLE 220 H LEG WILL BE APPROXIMATELY 20 IEL PROVIDED AND PREWIRED BY K					EG.								

	Pa	nel: K	(3											
	Location: COOKING 117 Supply From: MDP		P	Volts: 20 hases: 3 Wires: 4	8Y/120V			Mains Ty Bus Rati	<b>pe:</b> MLO n <b>g:</b> 125 A				A.I.C. Rating:	22,000
СКТ	Circuit Description	Trip	Poles	,	A		В		C	Poles	Trip	Circuit	: Description	СКТ
1	72" GRIDDLE-1 [6]	70 A	3	6004 VA	6004 VA	\				3		72" GRIDDLE-2	•	2
3						6004 VA	6004 VA							4
5								6004 VA	6004 VA					6
7	BUSSED SPACE			0 VA	0 VA							BUSSED SPACE	=	8
9	BUSSED SPACE					0 VA	0 VA					BUSSED SPACE	<u> </u>	10
11	BUSSED SPACE							0 VA	0 VA			BUSSED SPACE	Ī	12
		Total	Load:	1200	9 VA	1200	9 VA	1200	9 VA					·
Load (	Classification		Conr	nected Loa	ad	Design Fa	ctor	Estimated Demand				Panel	Totals	
Kitche	n Equipment		3	6026 VA		100.00%	6	36026	S VA					
											To	otal Conn. Load:	36026 VA	
											Tot	al Est. Demand:	36026 VA	
											Tota	Conn. Current:	100 A	
										Total	Ect D	emand Current:	100 Λ	

	Pa	nel: K	2											
Location: COOKING 117 Supply From: MDP			Volts: 208Y/120V Phases: 3 Wires: 4					Mains Type: MLO Bus Rating: 200 A				<b>A.I.C. Rating:</b> 22,000		
СКТ	Circuit Description	Trip	Poles		Ą		В		С	Poles	Trip	Circuit	Description	СК
1	HEATED TOP	20 A	1	864 VA	1664 VA					2	20 A	BUN TOASTER-	1	2
3	OPEN HIGH LEG					0 VA	1664 VA							4
5	BUSSED SPACE							0 VA	1664 VA	2	20 A	BUN TOASTER-2	2	6
7	DUKE WARMING BIN [4]	20 A	2	905 VA	1664 VA									8
9						905 VA	0 VA					OPEN HIGH LEG	3	10
11	HOT FOOD WELL	20 A	1					600 VA	0 VA			BUSSED SPACE		12
13	HOT FOOD WELL	20 A	1	600 VA	6004 VA					3	70 A	72" GRIDDLE-3 [	[6]	14
15	DUKE WARMING BIN [4]	20 A	2			905 VA	6004 VA							10
17								905 VA	6004 VA					18
19	REFRIGERATOR-1	20 A	1	480 VA	6004 VA					3	70 A	72" GRIDDLE-4 [	[6]	20
21	OPEN HIGH LEG					0 VA	6004 VA							22
23	BUSSED SPACE							0 VA	6004 VA					24
25	REFRIGERATOR-2	20 A	1	480 VA	0 VA							BUSSED SPACE		20
27	OPEN HIGH LEG					0 VA	0 VA					OPEN HIGH LEG	}	28
29	COLD RAIL	20 A	1					960 VA	360 VA	1	15 A	ANSUL FIRE SU	PPRESSION	30
		Total	Load:	1866	55 VA	1548	32 VA	16497 VA						
Load (	Classification		Coni	nected Lo	ad [	Design Fa	ctor	Estimated	Demand			Panel <sup>-</sup>	Totals	
Kitche	n Equipment		5	0285 VA		65.00%	, )	32685	5 VA					
Misc. (	Continuous			360 VA		125.00%	6	450	VA		To	otal Conn. Load:	50645 VA	
											Tot	al Est. Demand:	33135 VA	
											Tota	Conn. Current:	141 A	
										Tota	Est. D	emand Current:	92 A	
Notes:					1									

	Par	nel: K	4											
;	Location: DINING ROOM 100 Supply From: MDP			Volts: 20 Phases: 3 Wires: 4	8Y/120V			Mains Ty Bus Rati	<b>pe</b> : MLO <b>ng</b> : 125 A				A.I.C. Rating:	22,000
СКТ	Circuit Description	Trip	Poles		4		В		C	Poles	Trip	Circuit	: Description	CK
1	PITCO FRYER SE 184 - 2 [6]	70 A	3	6557 VA	5668 VA					3	70 A	PITCO FRYER S	SE 14 [6]	2
3						6557 VA	5668 VA							4
5								6557 VA	5668 VA					6
7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE		8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE		10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE		12
		Total	Load:	1222	25 VA	1222	25 VA	1222	25 VA					
Load (	Classification		Con	nected Loa	ad E	esign Fa	ctor	Estimated	Demand			Panel	Totals	
Kitche	n Equipment		3	36674 VA		100.00%	6	36674	1 VA					
											To	otal Conn. Load:	36674 VA	
											Tot	al Est. Demand:	36674 VA	
											Tota	Conn. Current:	102 A	
										Tota	Est. D	emand Current:	102 A	
Notes										- 33-				

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11/25/19 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.2012002143 EXP DATE: 12/31/22

	REV	DESCRIPTION	DATE

Project No.: 62-40497 - 21

Client Project No.:

Drawing Title: ELECTRICAL PANEL

SCHEDULES

Date:	06.29.2022	Phase:	PERMIT SET
Designed:	JPF	Drawing I	Vo.: