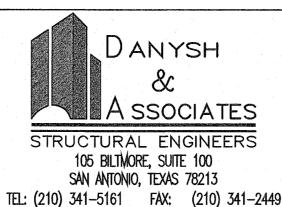
Issued: 05.09.22



6807 W. Military Drive San Antonio, TX 78277

DDO1-TEXAS, LLC 3845 STOCKTON HILL RD KINGMAN, ARIZONA 86409 CONTACT: JEFF RICKS E-MAIL: jeffricks@ddofoods.com (830) 388-5360

William & Associates ARCHITECTURE PLANNING CONSULTING 7400 BLANO RD., STE. 257, SAN ANTONIO, TEXAS 78216 TEL: (210) 349-6005 FAX: (210) 349-6025 **ARCHITECT**



STRUCTURAL

Phone: (361)852-2727 ENGINEERING

M.E.P. ENGINEER

601 MW LOOP 410, SLITE 850, SAN ANTONO, TX 78216 PHONE: 210-541-6166 FAX: 210-541-8609

CIVIL ENGINEERS

12770 CIMARRON PATH, SUITE. 100 SAN ANTONIO, TEXAS 78249 PH. 210/821-6570

LANDSCAPE ARCHITECT

OWNER

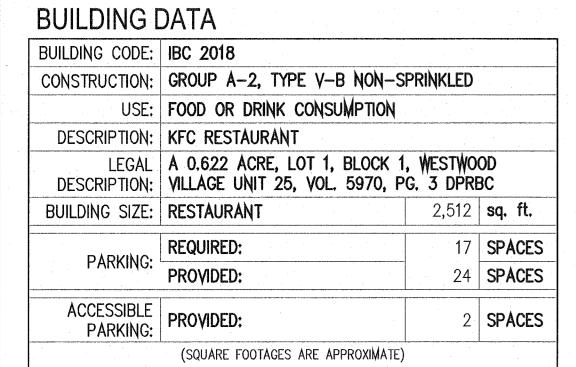
LOCATION PLAN

"NEXT GEN"

NO

YUM Date:

NG-30-22 version 22.1



OCCUPANCY

SAN ANTONIO, TEXAS

INTERIOR AREA & FIRE EXIT CALCULATIONS Occupance						
IIVI EIVI	<u> </u>	ANEAG FINE EATH CALCULATIONS	Ratio	Subtotal	Rounded	
584.1	sf	Dining	15	38.9	39	
42.5	sf	Q-Line (Standing)	5	8.5	9	
1,165.9	sf	Kitchen	200	5.8	6	
230.8	sf	Storage	300	0.8	1	
33.5	sf	Office	100	0.3	1	
147.3	sf	Restrooms ("net")	0	0.0	0	
45.0	sf	Pathway ("net")	0	0.0	0	
262.9	sf	Perimeter Wall	0	0.0	0	
2,512	sf	Totals			56	
Exit width = persons * 0.20" (IBC 1005.3.2) 11.2 INCHES						
Min number exits (IBC Table 1006.3.2)						
2018 IBC C	Occu	ıpant Load - Table 1004.5				

DRAWING INDEX

2.1 SITE UTILITY PLAN

DEMOLITION SITE PLAN

2.1 ARCH ENERGY SUMMARY SHEET PLAN

1 DIMENSIONAL CONTROL SITE PLAN

FIRE PROTECTION SITE PLAN

2 ARCH ENERGY SUMMARY SHEET ELEV

	2.2.2	MEP SITE PLAN	04.27.22
	2.3.1	GRADING PLAN	04.26.22
	2.3.2		04.26.22
	2.4.1	EROSION CONTROL PLAN	04.26.22
	2.4.2	EROSION CONTROL DETAILS	04.25.22
S	2.5.1	CIVIL GENERAL NOTES	04.25.22
	2.5.2	MISCELLANEOUS CONSTRUCTION DETAILS	04.25.22
T	2.5.3	UTILITY DETAILS	04.25.22
E	2.5.4	COSA STANDARD DETAILS	04.25.22
		2.6 not used	<u> </u>
	2.7.1	TREE PRESERVATION PLAN	04.20.22
	2.7.2	<u></u>	04.20.22
	2.7.3	LANDSCAPE DETAILS	04.20.22
	2.7.4		04.20.22
	2.8.1	IRRIGATION PLAN	04.20.22
	2.8.2	IRRIGATION DETAILS & NOTES	04.20.22
	2.9	DUMPSTER DETAILS	04.28.22
	2.10	ARCHITECTURAL SITE DETAILS	04.25.22
_	3.1	FLOOR PLAN	05.05.22
Р	3.1	REFLECTED CEILING PLAN	05.05.22
L	3.3.1	ELEVATIONS	04.28.22
A	3.3.1	ELEVATIONS	04.28.22
N	3.4	INTERIOR ELEVATIONS & TOILET PLAN	04.26.22
s	3.5	ROOF PLAN	04.27.22
	5.5	NOOLI LAIN	04,23,22
\dashv	4.0	ARCHITECTURAL SPECIFICATIONS	04.26.22
D	4.0	BUILDING SECTIONS	05.05.22
E	4.2.1	WALL SECTIONS	05.05.22
T	4.2.2	WALL SECTIONS	05.05.22
A	4.3	EXTERIOR DETAILS	05.05.22
ì	4.4	DOOR & WINDOW DETAILS	04.25.22
L	4.5	ROOF DETAILS	04.25.22
s	4.6	MISC DETAILS	04.25.22
s	5.1.1	DOOR WINDOW SCHEDULE	04.25.22
С	5.1.2	INTERIOR FINISH SCHEDULES	04.25.22
н	5.2	FINISH FLOOR PLAN	05.05.22
E			
٥			T
1	6.1	NOTES, SECTIONS AND DETAILS	04.27.22
	6.2	FOUNDATION FRAMING PLAN	04.27.22
٦	6.3	ROOF FRAMING PLAN	04.27.22
S	6.4	SECTIONS AND DETAILS	04.27.22
R	6.5	SECTIONS AND DETAILS	04.27.22
Ü	6.6	SECTIONS AND DETAILS	04.27.22
c	6.7	DUMPSTER DETAILS	04.27.22
т	6.8	SPECIFICATIONS	04.27.22
	6.9	SPECIFICATIONS	04.27.22
	6.10	SPECIFICATIONS	04.27.22
			ļ
	7.0	MECHANICAL SPECIFICATIONS	05.06.22
	7.1	MECHANICAL FLOOR PLAN	05.06.22
	7.2	MECHANICAL ROOF PLAN	05.06.22
	7.3	MECHANICAL SCHEDULES	05.06.22
м	7.4	MECHANICAL DETAILS	05.06.22
E	7.5	CAPTIVE AIRE MECH DETAILS	05.06.22
С	7.6	CAPTIVE AIRE MECH DETAILS	05.06.22
Н	7.7	CAPTIVEAUE MECH DETAILS	05.06.22
	7.8	CAPTIVE AIRE MECH DETAILS	05.06.22
	7.9	CAPTIVEAURE MECH DETAILS	05.06.22
	7.10	CAPTIVEAIRE MECH DETAILS	05.06.22
	7.11	CAPTIVEAIRE MECH DETAILS	05.06.22
4	8.0	ELECTRICAL SPECIFICATIONS	04.27.22
-	8.1	LIGHTING PLAN	04.27.22
	8.2	LIGHTING PLAN LIGHTING FIXTURE SCHEDULE	04.27.22
	8.3	LIGHTING FIXTURE SCHEDULE	04.27.22
	8.4	POWER PLAN	04.27.22
E	8.5	POWER PLAN POWER PLAN	04.27.22
L	8.6	SCHEDULES AND LOAD SUMMARY	04.27.22
E	8.7	RISER DIAGRAMS	04.27.22
c	8,8	COMM. PLAN SCHEDULES	04.27.22
-	8.9	ENLARGED POWER PLAN	04.27.22
	8.10	ELECTRICAL LINE DIAGRAM	04.27.22
		ELECTRICAL LINE DIAGRAM ELECTRICAL PANEL DETAIL	04.27.22
	8.11	LLEU INIOAL FAINEL DE IAIL	04.21.22
_	9.0	PLUMBING SPECIFICATIONS	04 27 22
_	9.0 9.1	PLUMBING SPECIFICATIONS PLUMBING DWV PLAN	04.27.22
			04.27.22
Р	9.2	PLUMBING WATER & GAS PLAN	04.27.22
ᄓ	9.3	ROUGH-IN PLAN	04.27.22
	9.4	ROOF PLAN	04.27.22
U		RISER DIAGRAMS	04.27.22
	9.5		
М	9.6	PLUMBING DETAILS	04.27.22
М			
U M B	9.6 9.7	PLUMBING DETAILS	04.27.22

FOURMENT PLAN EQUIPMENT SCHEDULE

INTERIOR ELEVATIONS

OWNER / G.C. RESPONSIBILITIES

INTERIOR ELEVATIONS INTERIOR ELEVATIONS

92 TOTAL SHEETS

CIVIL ENGINEER'S NOTES

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER OF RECORD. IN ACCEPTING THESE PLANS, THE NEW BRAUNFELS MUST RELY UPON THE ADEQUACY OF THE WORK OF THE ENGINEER OF RECORD.

IF CONSTRUCTION HAS NOT COMMENCED WITHIN ONE-YEAR OF CITY APPROVAL FOR CONSTRUCTION INSPECTION, THAT APPROVAL IS NO LONGER VALID. 3. PROJECT IS A TYPE 3 DEVELOPMENT

ACCORDING TO FEMA'S MAP SERVICE CENTER. THE SITE IS LOCATED IN ZONE "X" DESIGNATED FLOODPLAIN PER FIRM NUMBER 4809 I CO455F, EFFECTIVE ON SEPTEMBER 02, 2009

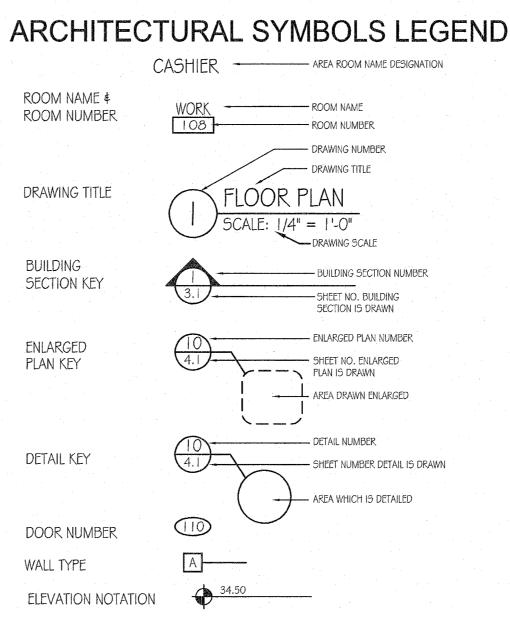
THIS PROJECT IS NOT LOCATED WITHIN THE JURISDICTIONAL BOUNDARY OF THE EDWARDS AQUIFER AUTHORITY RECHARGE

GENERAL NOTES

ALL GYPSUM BOARD TO BE TYPE "X" FIRE RATED TO AFFORD ONE (1) HOUR CONSTRUCTION OR AS REQUIRED.

WHEN REFERENCE IS MADE TO MATERIAL SYSTEM, ALL PARTS AND MATERIALS PERTINENT TO THE MANUFACTURER'S SYSTEM SPECIFIED SHALL BE FURNISHED AND INSTALLED.

THIS PROJECT COMPLIES WITH THE "AMERICANS WITH DISABILITIES ACT", (ADA) - "TO THE MAXIMUM EXTENT FEASIBLE".



CONTRACTOR IS REQUIRED TO PROVIDE THE FOLLOWING A.D.A. REQUIREMENTS

4.1 ACCESSIBLE FACILITIES 4.1.3 (17)(b) PUBLIC TELEPHONES: ACCESSIBLE TELEPHONES TO BE EQUIPPED WITH A YOLUME CONTROL 4.3 ACCESSIBLE ROUTE 4.3.7 SLOPE; MAXIMUM RUNNING SLOPE NOT TO EXCEED 1:20 SLOPE W/ MAXIMUM CROSS SLOPE OF 1:48 4.3.8 CHANGES IN LEVELS: MAXIMUM CHANGE IN LEVEL IS 1/2" Clear Doorway

4.6 PARKING & PASSENGER LOADING ZONES PARKING SPACES: 9 FOOT WIDE SPACES, 5 FOOT ACCESS AISLES - MAX. GROUND SURFACE SLOPE = 2% IN ANY DIRECTION SIGNAGE: VERTICAL SIGNAGE TO BE PROVIDED - REF. DETAILS, SHEET 1.2

4.13 DOORS 4.13.8 THRESHOLDS AT DOORWAYS: 1/2" MAX, BEYELED W/ 1:2 MAX SLOPE 4.13,9 DOOR HARDWARE: "HARDWARE SHALL BE MOUNTED NO HIGHER THAN 48" & NO LOWER THAT 34" ABOYE FIN, FL. 4.13.10 DOOR CLOSERS: SWEEP PERIOD OF CLOSER SHALL BE ADJUSTED SO FROM AN OPEN POSITION OF 90 DEGREES THE DOOR WILL TAKE A MIN, OF 5 SECONDS TO MOVE TO A POINT 12 DEGREES FROM

THE LATCH. (MEASURED TO THE LEADING EDGE OF THE DOOR) 4.13.11 DOOR OPENING FORCE: INTERIOR HINGED DOORS = 5 LBF (22,2N), FIRE DOORS SHALL HAVE THE

4.14 ENTRANCES 4.14.4 MINIMUM NUMBER: ALL ENTRANCES TO BE LEVEL, MAX. SLOPE TO BE 1:48 (1/4 INCH PER FOOT).

4.16 WATER CLOSETS 4,16,2 CLEAR FLOOR SPACE: FRONT APPROACH TO HAVE MIN, CLEAR FLOOR SPACE OF 48 INCHES WIDE BY 66 INCHES DEEF SIDE APPROACH TO HAVE MIN. CLEAR FLOOR SPACE OF 48 INCHES WIDE BY 56 INCHES DEEP BOTH SIDE AND FRONT APPROACH TO HAVE A MIN, CLEAR FLOOR SPACE OF 60 INCHES WIDE BY 56 INCHES DEEP

4.16.3 HEIGHT: 17 TO 19 INCHES A.F.F. TO TOP OF SEAT, 18 INCHES ON CENTER OF FIXTURE FROM SIDE WALL/PARTITION 4.16.4 GRAB BARS: ALL ACCESSIBLE WATER CLOSETS TO HAVE 36 INCH REAR BAR MOUNTED 6" FROM THE CORNER AND A 42 INCH SIDE BAR MOUNTED 12" FROM THE CORNER, 33 TO 36 INCHES A.F.F, TO TOP OF BAR

4.19 LAVATORIES AND MIRRORS

4.19.2 HEIGHT AND CLEARANCES: 34 INCHES A.F.F. TO TOP, 27 INCH KNEE CLEARANCE 4.19.3 CLEAR FLOOR SPACE: 30 INCHES BY 48 INCHES PROVIDED IN FRONT OF LAYATORY

4.19.4 EXPOSED PIPES AND SURFACES; EXPOSED PIPES TO BE INSULATED 4.19.5 FAUCETS: ACCESSIBLE FAUCETS (IF NOT AUTOMATIC) TO BE LEVER-OPERATED WITH A MAXIMUM FORCE TO OPERATE OF 5 LBF. 4.19,6 MIRRORS: ACCESSIBLE MIRRORS SHALL BE MOUNTED W/ BOTTOM EDGE OF REFLECTING SURFACE

MAX. 40 INCHES A.F.F. AND A MIN. OF 74 INCHES A.F.F. 4.24.2 HEIGHT: (IF COUNTER TOPS SPECIFIED) COUNTER HEIGHT 34 INCHES

4.24,3 KNEE CLEARANCE: MIN. 27 INCHES HIGH BY 30 INCHES WIDE, AND 19 INCHES DEEP TO BE PROVIDED UNDERNEATH SINKS 4.24.4 DEPTH: MAX. DEPTH OF ACCESSIBLE SINKS IS 6 1/2 INCHES

4.26.2 SIZE & SPACING: THE NOMINAL DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A HANDRAII OR GRAB BAR SHALL BE 1 1/4 INCH TO 1 1/2 INCH THE SPACE BETWEEN THE WALL & THE GRAB BARS SHALL BE 1 1/2" 4.26.3 STRUCTURAL STRENGTH: BENDING STRESS IN A GRAB BAR, (INDUCED BY THE MAX. BENDING

MOMENT FROM THE APPLICATION OF 250 LBF) SHALL BE LESS THAN THE ALLOWABLE STRESS FOR SHEAR STRESS (INDUCED IN A GRAB BAR BY THE APPLICATION OF 250 LBF) SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR, IF THE CONNECTION BETWEEN THE GRAB BAR SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED. THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL BE TOTALED FOR THE COMBINED SHEAR STRESS, WHICH SHALL

NOT EXCEED THE ALLOWABLE SHEAR STRESS. SHEAR FORCE (INDUCED IN A FASTENER OR MOUNTING DEVICE FROM THE APPLICATION OF 250 LBF) SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE, WHICHEVER IS THE SMALLER ALLOWABLE LOAD

MOMENT FROM THE APPLICATION OF 250 LBF) SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND THE SUPPORTING STRUCTURE

4.27 CONTROLS AND OPERATING MECHANISMS 4.27.3 HEIGHT: THE HIGHEST OPERABLE PART OF CONTROLS, DISPENSERS, RECEPTACLES, & OTHER OPERABLE EQUIPMENT SHALL BE PLACED WITHIN THE FOLLOWING REACH RANGES:

> FORWARD = MAX HIGH FORWARD REACH IS 48 INCHES = MIN. LOW FORWARD REACH IS 15 INCHES = OVER OBSTRUCTIONS (34 INCH MAX. A.F.F.) DEPTH OF REACH SHALL BE 25 INCHES OR LESS AND HEIGHT OF REACH SHALL BE 44 INCHES MAX. SIDE = MAX HIGH SIDE REACH IS 48 INCHES

= MIN, LOW SIDE REACH IS 15 INCHES = OVER OBSTRUCTIONS (34 INCH MAX. A.F.F.) DEPTH OF REACH SHALL BE 24 INCHES OR LESS AND HEIGHT OF REACH SHALL BE 46 INCHES MAX. ELECTRICAL & COMMUNICATIONS SYSTEMS RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15 INCHES A.F.F.

THESE REQUIREMENTS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL & COMMUNICATIONS SYSTEMS RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS

4.30 SIGNAGE - (OWNER FURNISHED & INSTALLED)

4.30.4 LETTERS & NUMERALS: RAISED 1/32 INCH, UPPER CASE, SANS SERIF TYPE AND ACCOMPANIED W/ GRADE 2 BRAILLE, RAISED CHARACTERS AT LEASE 5/8 INCH HIGH, BUT NO HIGHER THAN 2 INCHES PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6 INCHES MIN. IN HEIGHT

4.30.6 MOUNTING LOCATIONS & HEIGHT: WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS & SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR, WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR. INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60 INCHES A.F.F. TO CENTERLINE OF SIGN. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3 INCHES OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF DOOR

4.31 TELEPHONES - (OWNER FURNISHED & INSTALLED)

4.31.2 CLEAR FLOOR OR GROUND SPACE: PROVIDE CLEAR FLOOR OR GROUND SPACE, MIN. 30" BY 48" AT ACCESSIBLE TELEPHONES, "Centered on the element it serves" 4.31,3 MOUNTING HEIGHT: THE HIGHEST OPERABLE PART OF THE TELEPHONE SHALL BE WITHIN THE FOLLOWING REACH RANGES:

= MIN. LOW SIDE REACH IS 9 INCHES

FORWARD = MAX, HIGH FORWARD REACH IS 48 INCHES = MIN. LOW SIDE REACH IS 15 INCHES = OVER OBSTRUCTIONS (34 INCHES MAX. A.F.F.) DEPTH OF REACH SHALL BE 25 INCHES OR LESS & HEIGHT OF REACH SHALL BE 44 INCHES MAX. = MAX, HIGH SIDE REACH IS 54 INCHES

= OVER OBSTRUCTIONS (34 INCHES MAX, A.F.F.) DEPTH OF REACH SHALL BE 24 INCHES OR LESS & HEIGHT OF REACH SHALL BE 46 4.31.4 PROTRUDING OBJECTS: OBJECTS PROJECTING FROM WALLS (TELEPHONES) WITH THEIR LEADING EDGES BETWEEN 27 AND 80 INCHES ABOYE FINISHED FLOOR SHALL PROTRUDE NO MORE THAN 4 INCHES INTO WALKS, HALLS, CORRIDORS, PASSAGEWAYS, OR AISLES. OBJECTS MOUNTED WITH THEIR LEADING EDGES AT OR BELOW 27 INCHES ABOVE FINISHED FLOOR MAY PROTRUDE ANY AMOUNT. FREE—STANDING OBJECTS MOUNTED ON POSTS OR PYLONS MAY

OVERHANG 12 INCHES MAXIMUM FROM 27 TO 80 INCHES ABOVE THE GROUND OR FINISHED FLOOR. PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANEUVERING SPACE, 4.31.5 HEARING AID COMPATIBLE & VOLUME: (1) ACCESSIBLE TELEPHONES SHALL BE HEARING AID COMPATIBLE, (2) VOLUME CONTROLS CAPABLE OF A MINIMUM OF 12 dbA AND A MAXIMUM OF 18 dbA ABOYE NORMAL SHALL BE PROVIDED, 4.31.6 CONTROLS: ACCESSIBLE TELEPHONES SHALL HAVE PUSHBUTTON CONTROLS WHERE SERVICE FOR SUCH EQUIPMENT IF AVAILABLE

4.31.7 TELEPHONE BOOKS: IF BOOKS PROVIDED, LOCATE WITHIN REACH RANGES LISTED ABOVE 4.31.8 CORD LENGTH; THE CORD FROM THE TELEPHONE TO THE HANDSET SHALL BE AT LEAST 29 INCHES LONG 4.32 FIXED OR BUILT-IN SEATING AND TABLES

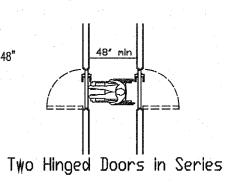
4.32.4 COUNTER, REQUIRE ONE 36" MIN. LONG SECTION OF COUNTER TO BE 34" A.F.F. MAX. TO TOP SURFACE ACCESSIBLE SEATING: MIN. 5% OF FIXED SEATING TO BE ACCESSIBLE (NOT LESS THAN ONE) - PROVDE CLEAR FLOOR SPACE OF 30 INCHES BY 48 INCHES - CLEAR FLOOR SPACE SHALL NOT OVERLAP KNEE SPACE BY MORE THAN 19 INCHES KNEE CLEARANCES: PROVIDE KNEE SPACE OF MIN. 27 INCHES HIGH BY 30 INCHES WIDE AND 19 INCHES DEEP TABLE HEIGHT: TOPS OF ACCESSIBLE TABLES AND COUNTERS SHALL BE FROM 28 INCHES TO 34 INCHES A.F.F.

RESTAURANTS, CAFETERIAS, SNACK BARS, & VENDING AREAS

TABLEWARE AND CONDIMENT AREAS: SELF-SERVICE SHELVES AND DISPENSING DEVICES SHALL HAVE A MAXIMUM REACH OF 48" WITH A SIDE APPROACH, WITH A MAXIMUM COUNTER HEIGHT OF 34 INCHES

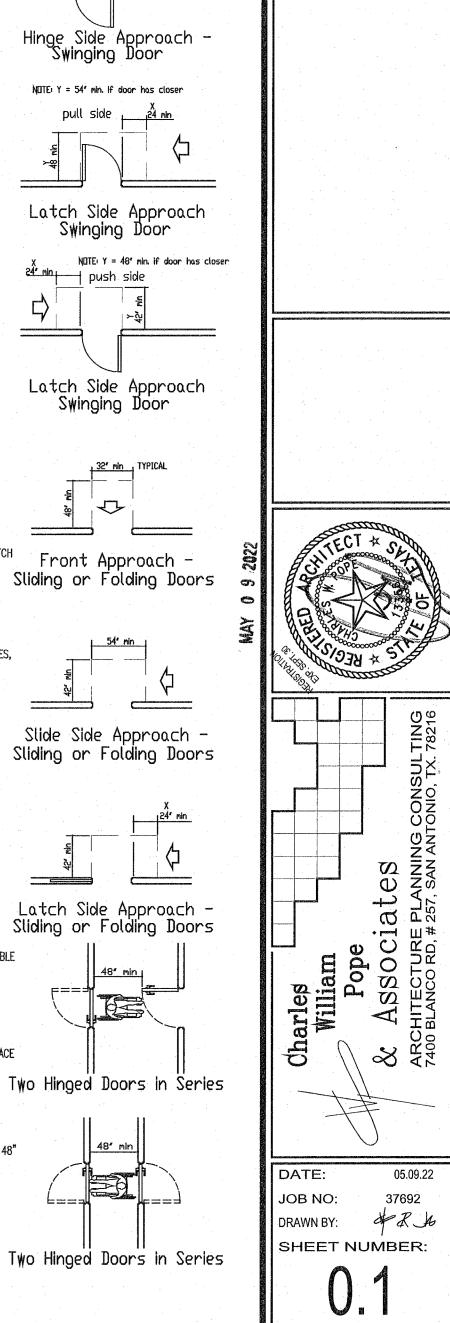
7.2 SALES AND SERVICE COUNTERS

COUNTERS WITH CASH REGISTERS: PROVIDE A MIN, OF ONE AREA OF THE COUNTER WHICH IS AT LEAST 36 INCHES IN LENGTH WITH A MAXIMUM HEIGHT OF 36 INCHES ABOVE FINISHED FLOOR.



TEXAS ACCESSIBILITY STANDARDS

ADDITIONAL ACCESSIBILITY STANDARDS MAY APPLY



Rockgate

pull side

Front Approach

Swinging Door

Front Approach

Swinging Door

NOTE: X = 36' min. If Y = 60'

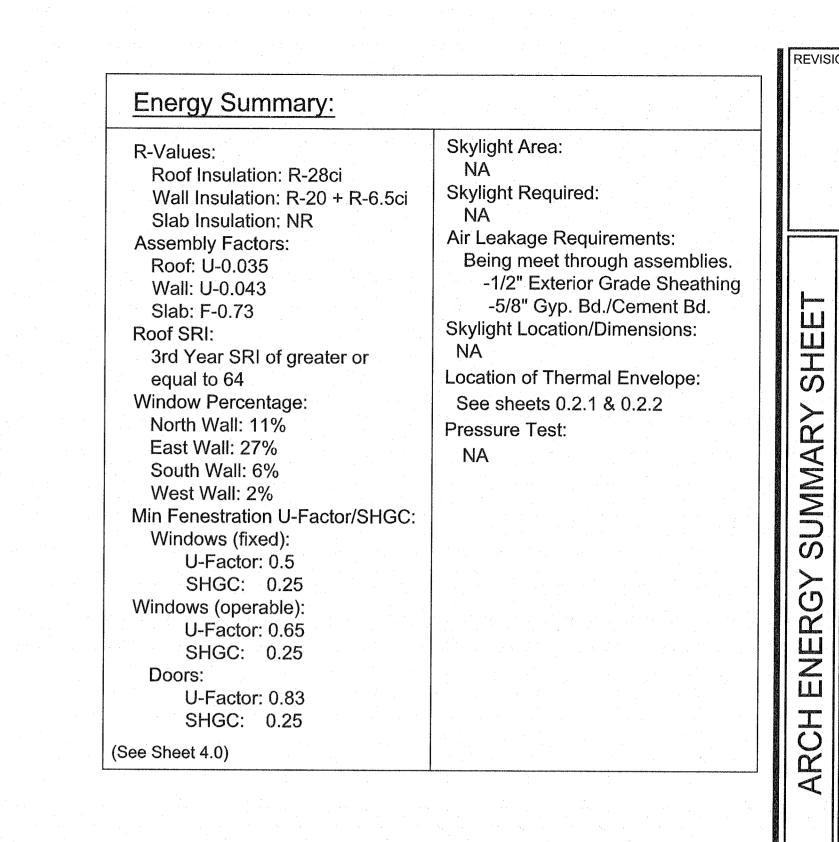
Hinge Side Approach -

Tx. 78227

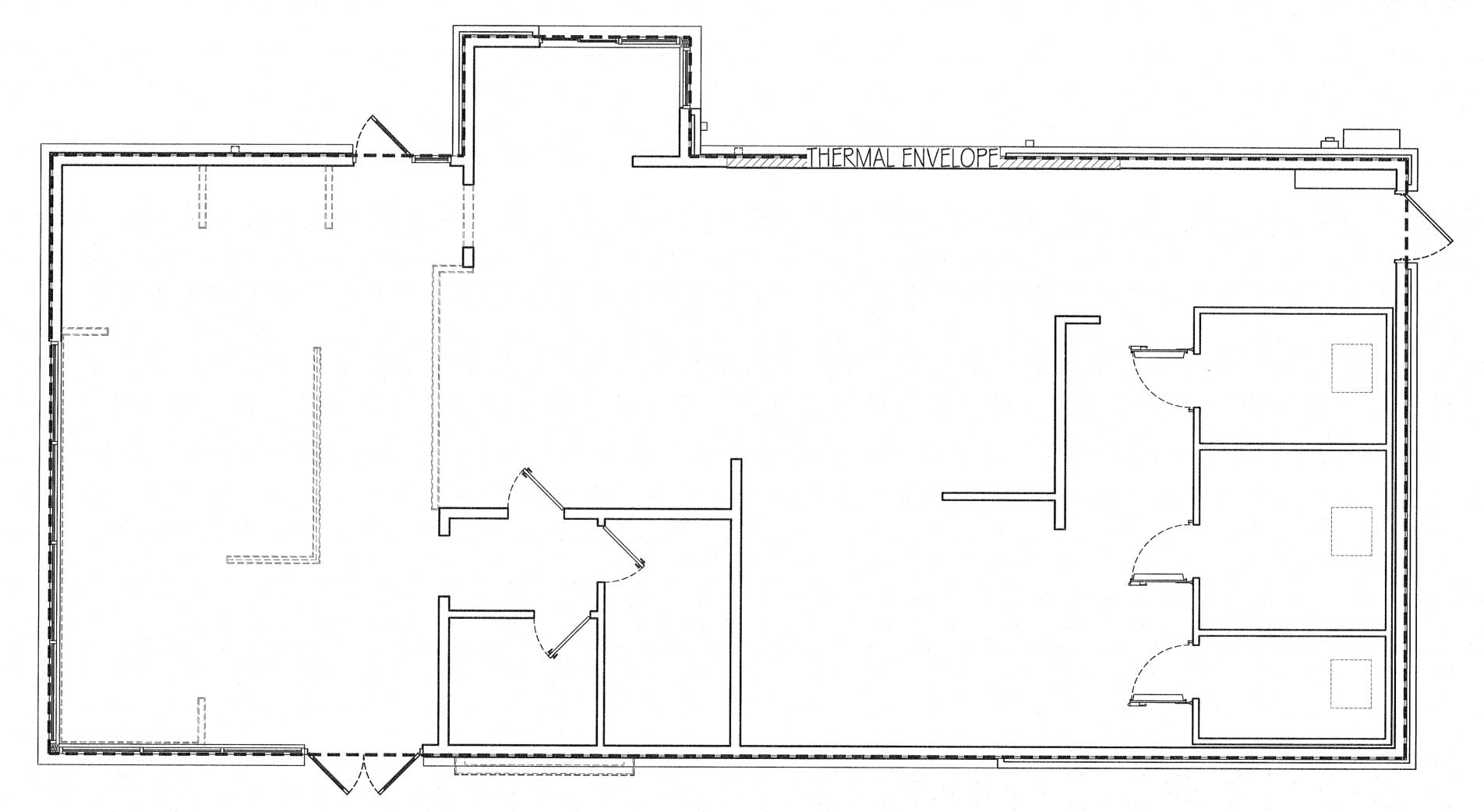
Š

6807 Military

BEE

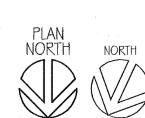


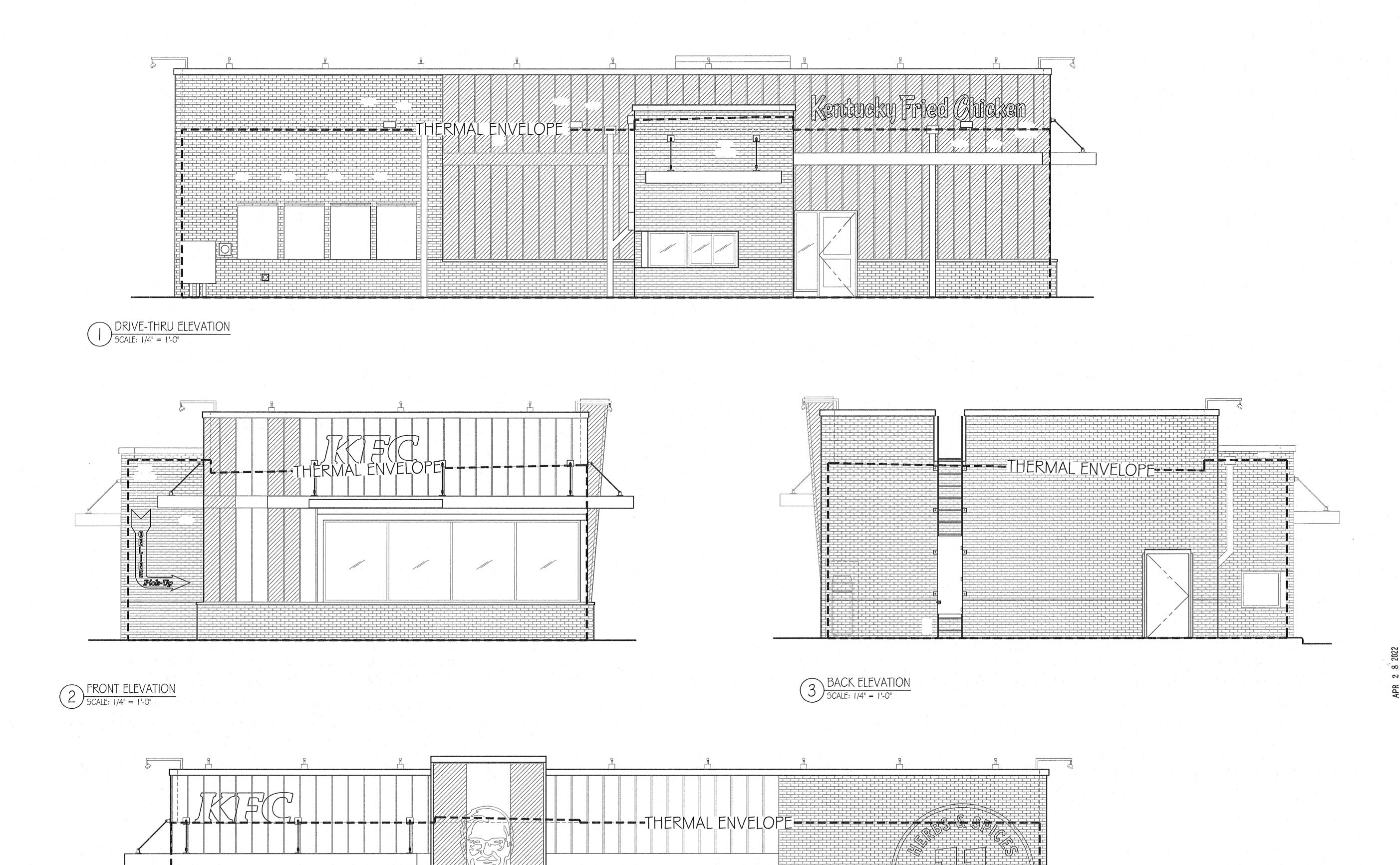
MINITED IN San Antonio, Tx. 78227



ENERGY ENVELOPE PLAN

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





KFR-00_2_2 Energy Elev.dwg

SIDE ENTRY ELEVATION

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

Proudly Served Since 1940

WELCOME

Charles
William
Pope
RACHITECTURE PLANNING CONSULTING
7400 BLANCO RD, # 257, SAN ANTONIO, TX. 78216

MINITED/INSTRUCT Rockgate 6807 Military Dr W, San Antonio, Tx. 78227

ARCH ENERGY SUMMARY SHEET

REVISIONS:

JORDAN P. SCHAEFER

11111104/25/2022

Antonio, Tx. 78227

San

Ē

ADVISORY NOTES

LEGEND

PROPERTY BOUNDARY

LIMITS OF DISTURBANCE

WATER LINE TO REMAIN

GAS LINE TO REMAIN

(FULL DEPTH)

(FULL DEPTH)

(FULL DEPTH)

BENCHMARK

PROPERTY CORNER

EXISTING GAS METER

EXISTING WATER METER

EXISTING POWER POLE

EXISTING BACKFLOW PREVENTER

EXISTING SANITARY SEWER MANHOLE

EXISTING SANITARY SEWER CLEANOUT

EXISTING SIGN

BUILDING TO BE REMOVED

PROPOSED SAWCUT LIMITS

OVERHEAD ELECTRIC TO REMAIN

SANITARY SEWER LINE TO REMAIN

CONCRETE PAVEMENT TO BE REMOVED

CONCRETE SIDEWALK TO BE REMOVED

CONCRETE DRIVEWAY TO BE REMOVED

KIMLEY-HORN AND ASSOCIATES, INC. IS NOT RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR TO IMPLEMENT THIS DEMOLITION PLAN. THIS DEMOLITION PLAN SIMPLY INDICATES THE KNOWN OBJECTS OF THE SUBJECT TRACTS THAT ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE. KIMLEY-HORN AND ASSOCIATES, INC DOES NOT WARRANT OR REPRESENT THAT THE PLAN, WHICH WAS PREPARED BASED ON SURVEY AND UTILITY INFORMATION PROVIDED BY OTHERS, SHOWS ALL IMPROVEMENTS AND UTILITIES, THAT THE IMPROVEMENTS AND UTILITIES ARE SHOWN ACCURATELY, OR THAT THE UTILITIES SHOWN CAN BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING HIS OWN SITE RECONNAISSANCE TO SCOPE HIS WORK AND TO CONFIRM WITH THE OWNERS OF IMPROVEMENTS AND UTILITIES THE ABILITY AND PROCESS FOR THE REMOVAL OF THEIR FACILITIES. THIS PLAN IS INTENDED TO GIVE A GENERAL GUIDE TO THE CONTRACTOR, NOTHING MORE. THE GOAL OF THE DEMOLITION IS TO LEAVE THE SITE IN A STATE SUITABLE FOR THE CONSTRUCTION OF THE PROPOSED DEVELOPMENT. REMOVAL OR PRESERVATION OF IMPROVEMENTS, UTILITIES, ETC. TO ACCOMPLISH THIS GOAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.

- THE CONTRACTOR IS STRONGLY CAUTIONED TO REVIEW ANY AVAILABLE REPORTS DESCRIBING SITE CONDITIONS PRIOR TO BIDDING AND IMPLEMENTING THE DEMOLITION PLAN. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING THE DEMOLITION OF
- RESPONSIBILITY TO REVIEW THE SITE, DETERMINE THE APPLICABLE REGULATIONS, RECEIVE THE REQUIRED PERMITS AND KIMLEY-HORN AND ASSOCIATES, INC. DOES NOT WARRANT OR REPRESENT THAT THE REPORTS AND SURVEYS

REFERENCED ABOVE ARE ACCURATE, COMPLETE, OR COMPREHENSIVE.

OBJECTS ON THE SITE AND THE DISPOSAL OF THE DEMOLISHED MATERIALS OFF-SITE. IT IS THE CONTRACTOR'S

THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF SAN ANTONIO AND FRANCHISED UTILITY COMPANIES TO MAINTAIN SERVICES AT ALL TIMES TO NEIGHBORING PROPERTIES. THE CONTRACTOR SHALL MAINTAIN COMPLETE: RECORDS INDICATING HOW THE WASTE FROM THE SITE HAS BEEN HANDLED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS IN THE GEOTECHNICAL REPORT. THE SITE, AFTER DEMOLITION SHALL BE GRADED TO ELIMINATE DEPRESSIONS, HOLES, BERMS, DIRT PILES, ETC. THE SITE IS TO BE GRADED UNTIL RELATIVELY SMOOTH AND ATTRACTIVE IN APPEARANCE PRIOR TO STABILIZATION OF EARTH. ANY FILL MATERIAL/FILL AREAS SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY AT A MOISTURE AT, OR ABOVE, OPTIMUM MOISTURE CONTENT IN MAXIMUM 8" LIFTS. CONTRACTOR SHALL PROVIDE PROOF IN THE FORM OF LAB TEST KITS THAT THIS HAS BEEN ACHIEVED.

- THE CONTRACTOR SHALL BE RESPONSIBLE TO CLEAR, GRUB, AND STRIP ALL EXISTING IMPROVEMENTS, TREES, VEGETATION, AND TOP SOIL WITHIN THE LIMITS OF DISTURBANCE UNLESS OTHERWISE NOTED.
- MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE PHASE I ENVIRONMENTAL SITE ASSESSMENT. LOCATIONS OF PUBLIC AND PRIVATE UTILITIES SHOWN ARE APPROXIMATE AND MAY NOT BE COMPLETE. CONTRACTOR SHALL CALL 811 AT LEAST 48 HOURS PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CONTACT ANY OTHER UTILITY COMPANIES WHO DO NOT SUBSCRIBE TO THE TESS PROGRAM FOR LINE MARKINGS. THE CONTRACTOR BEARS SOLE RESPONSIBILITY FOR VERIFYING LOCATIONS OF EXISTING UTILITIES, SHOWN OR NOT SHOWN, AND FOR ANY DAMAGE DONE TO THESE FACILITIES.
- TIME THE DRAWINGS WERE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTORS RESPONSIBILITY AND SHALL BE DONE BEFORE THEY COMMENCE ANY WORK, IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGE DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
- IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 72 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, AND
- COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER WAS NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
- 10. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE DEVELOPER IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES. 1. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., ACCORDING TO STANDARD BEST PRACTICES.

- 15. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATION AND
- THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA. ANY RECYCLED MATERIAL TO BE STOCKPILED ON THE SITE SHALL BE STORED IN AS SMALL AN AREA AS PRACTICABLE AND THE LOCATION OF ANY STOCKPILE SHALL BE WELL CLEAR OF THE BUILDING PAD AREA AND THE LOCATION MUST BE
- PRE-APPROVED BY THE OWNER PRIOR TO STOCKPILING. FILL MATERIAL SHALL BE PLACED IN ACCORDANCE WITH THE GEOTECH REPORT.

THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL

ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE

ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER BEFORE

9. CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL DEVICES FOR ANY STREET WORK.

12. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES AROUND THE SITE PERIMETER ARE TO BE INSTALLED 13. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.

14. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH ALL REGULATIONS GOVERNING THE DEMOLITION, REMOVAL, TRANSPORTATION AND DISPOSAL OF ALL DEMOLITION DEBRIS

TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC. AS NECESSARY FOR

BENCHMARK LIST TBM #101: "MAG NAIL WITH WASHER" SET ON TOP OF CONCRETE CURVE LOCATED 17.67' FROM A POWER POLE AT I NO PARKING SIGN.

TBM #102: "MAG NAIL WITH WASHER" SET ON TOP OF CONCRETE SIDEWALK LOCATED 25.69' FROM THE NORTH CORNER OF BUILDING AND 3.19' FROM A SEWER MANHOLE.

THE SOUTHEASTERLY LINE OF ROCKGATE AND 44.49 FROM A | ELEVATION = 755.50 FEET. (AS SHOWN) ELEVATION = 751.96 FEET. (AS SHOWN)

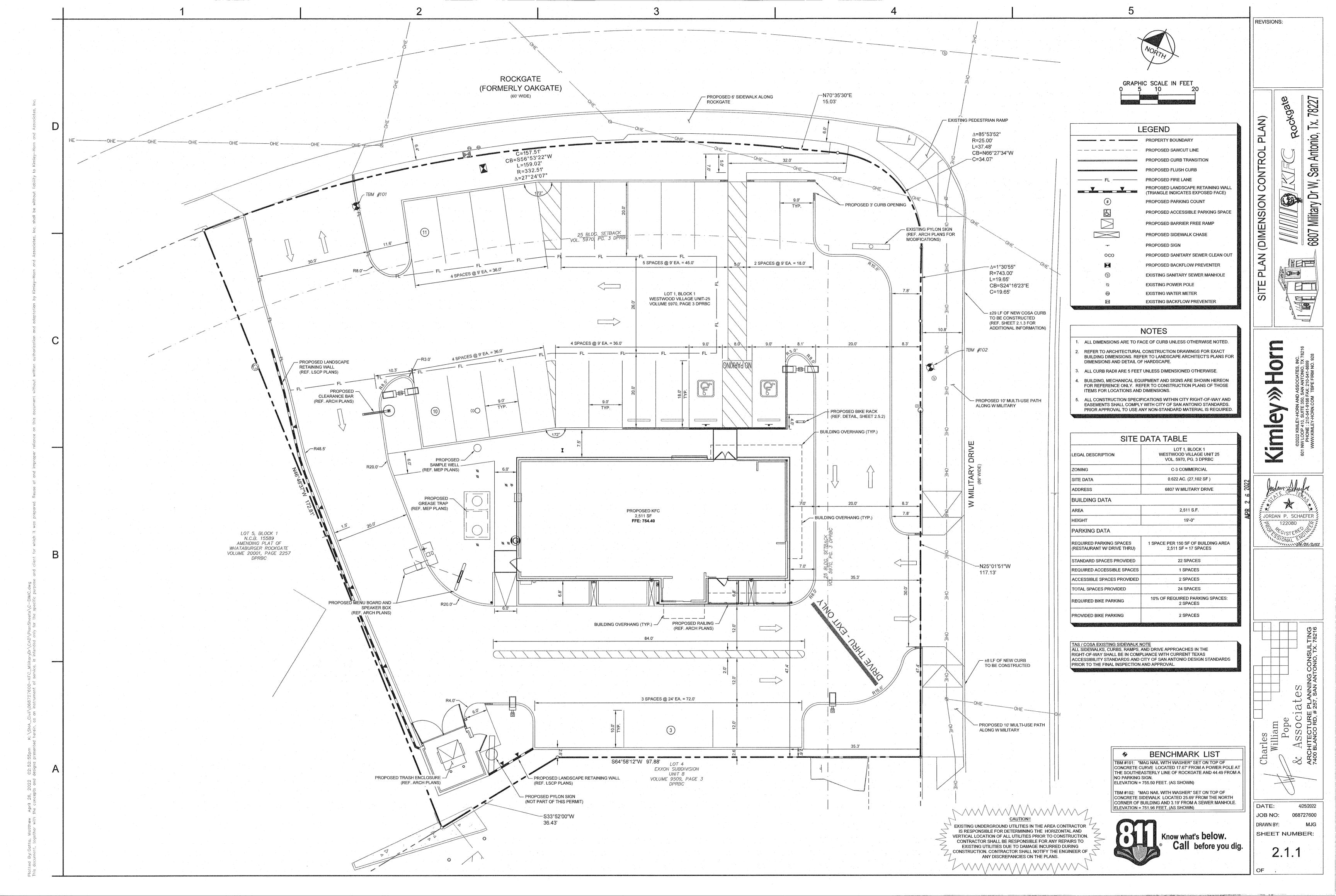
Know what's below. Call before you dig.

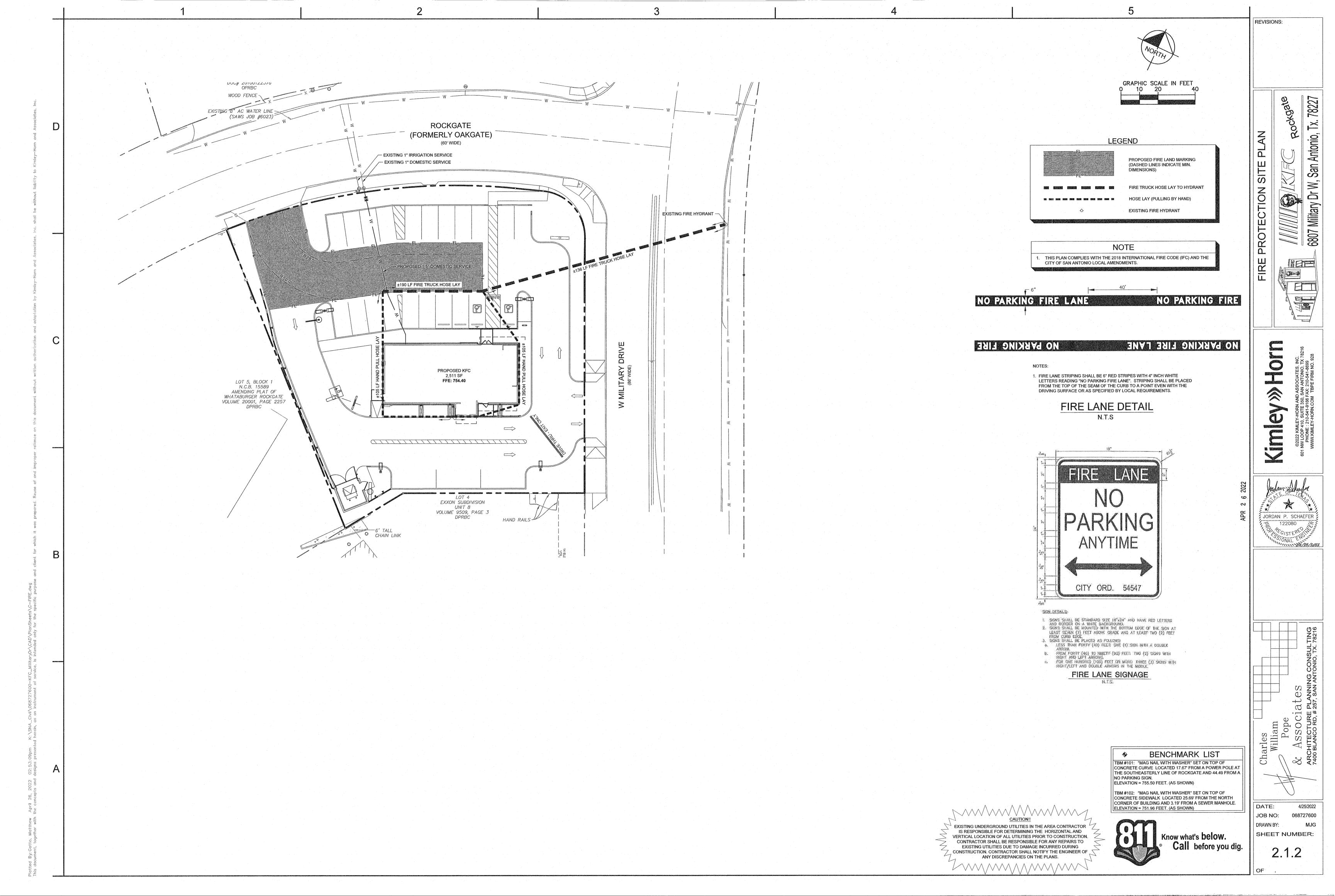
EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND

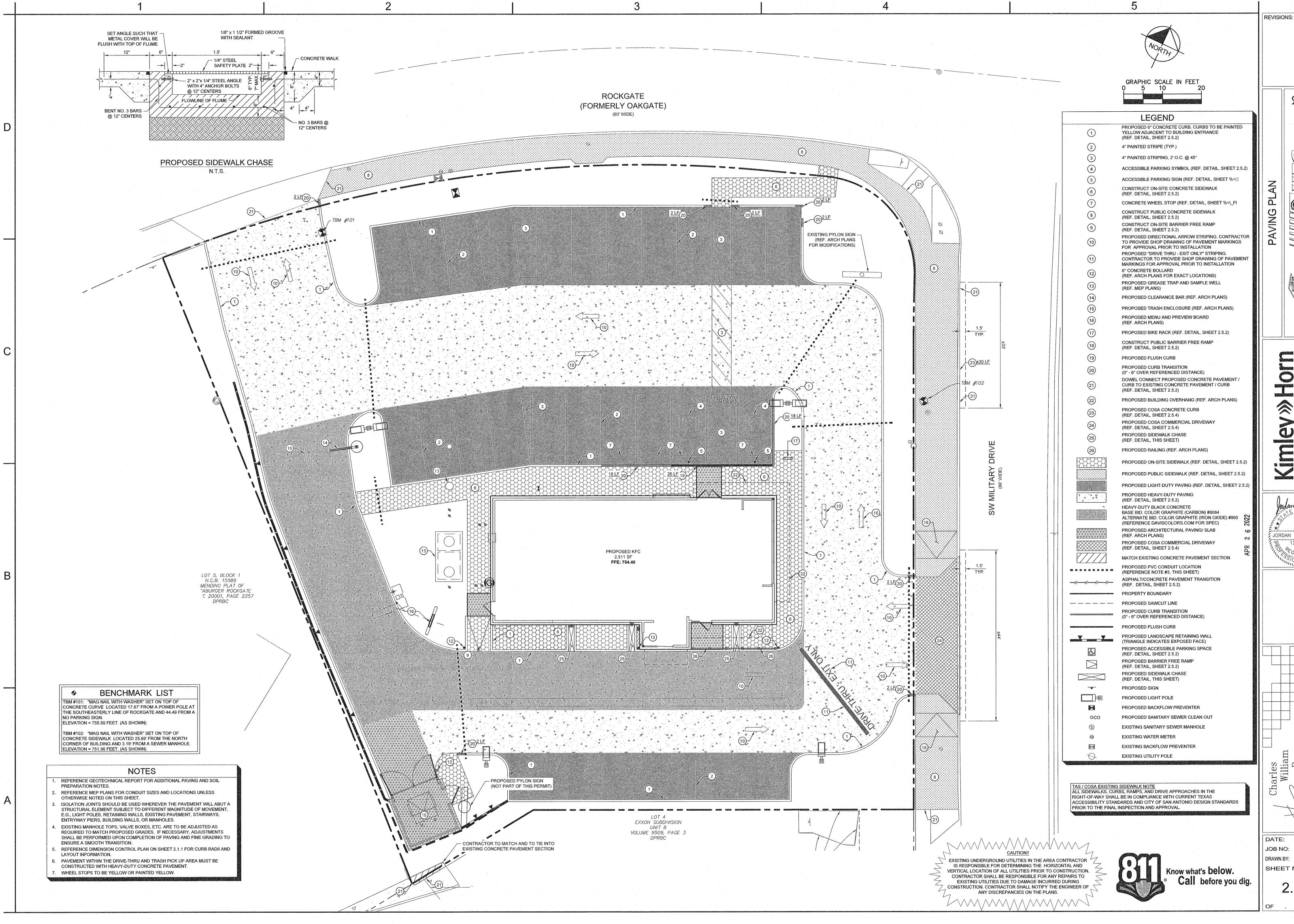
VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO

EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

DATE: JOB NO: 068727600 DRAWN BY: SHEET NUMBER:







W. San Antonio. Tx. 78227

E SON Military [

OCIATES, INC.
NTONIO, TX 78216
0-541-8699
FIRM NO. 928

©2022 KIMLEY-HORN AND ASSOCIATE
601 NW LOOP 410, SUITE 350, SAN ANTONIC
PHONE: 210-341-9166 FAX: 210-541-8

pe Colates URE PLANNING CONSULTING RD, # 257, SAN ANTONIO, TX. 78216

William
Pope

& ASSOCIAte
ARCHITECTURE PLAN
7400 BLANCO RD, # 257, 8

DATE: 4/25/2022

JOB NO: 068727600

DRAWN BY: MJG

SHEET NUMBER:

2.1.3

SAWS GENERAL CONSTRUCTION NOTES

TITLE 30 PART 1 CHAPTER 290

GENERAL SECTION

CONSTRUCTION'

COUNTER PERMIT AND GENERAL CONSTRUCTION PERMIT

E. CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).

3. THE CONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS WEBSITE,

CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.

ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT REQUIREMENTS.

TO REQUEST WEEKEND WORK, REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.

PROVIDE THE ADDRESS OF THE SPILL AND AN ESTIMATED VOLUME OR FLOW.

§SAWS UTILITY LOCATES: HTTP://WWW.SAWS.ORG/SERVICE/LOCATES

§TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811

RESPONSE. SHOULD AN SSO OCCUR, THE CONTRACTOR SHALL

E. CLEAN THE AFFECTED SEWER MAINS AND REMOVE ANY DEBRIS.

AFFECTED SEWER MAINS (AT SAWS DIRECTION) WITHIN 24 HOURS.

RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.

FOR WATER MAINS 12" OR HIGHER: SAWS EMERGENCY OPERATIONS CENTER (210) 233-2014

B. ATTEMPT TO ELIMINATE THE SOURCE OF THE SSO.

CONTAMINATED SOIL/MATERIALS.

SET BY THE TCEQ AND SAWS.

DISCHARGE REGARDLESS OF SIZE.

5. ALL VALVES SHALL READ "OPEN RIGHT".

8. BACKFLOW PREVENTION DEVICES:

CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.

BRANCH WILL BE REMOVED AND REPLACED WITH A CAP/PLUG. (NSPI)

REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE (PRV).

CHLORINATED, AND SAWS HAS RELEASED THE MAIN FOR TIE-IN AND USE.

ITEM NO. 839, IN THE SAWS STANDARD SPECIFICATIONS FOR CONSTRUCTION.

CONSTRUCTION.

WATER SECTION

§COSA DRAINAGE (210) 207-0724 OR (210) 207-6026

§COSA TRAFFIC SIGNAL DAMAGES (210) 207-3951

EXCAVATING NEAR TREES.

SEWER NOTES

APPROVED FLOOD PLAIN PERMIT

§COSA TRAFFIC SIGNAL OPERATIONS (210) 206-8480

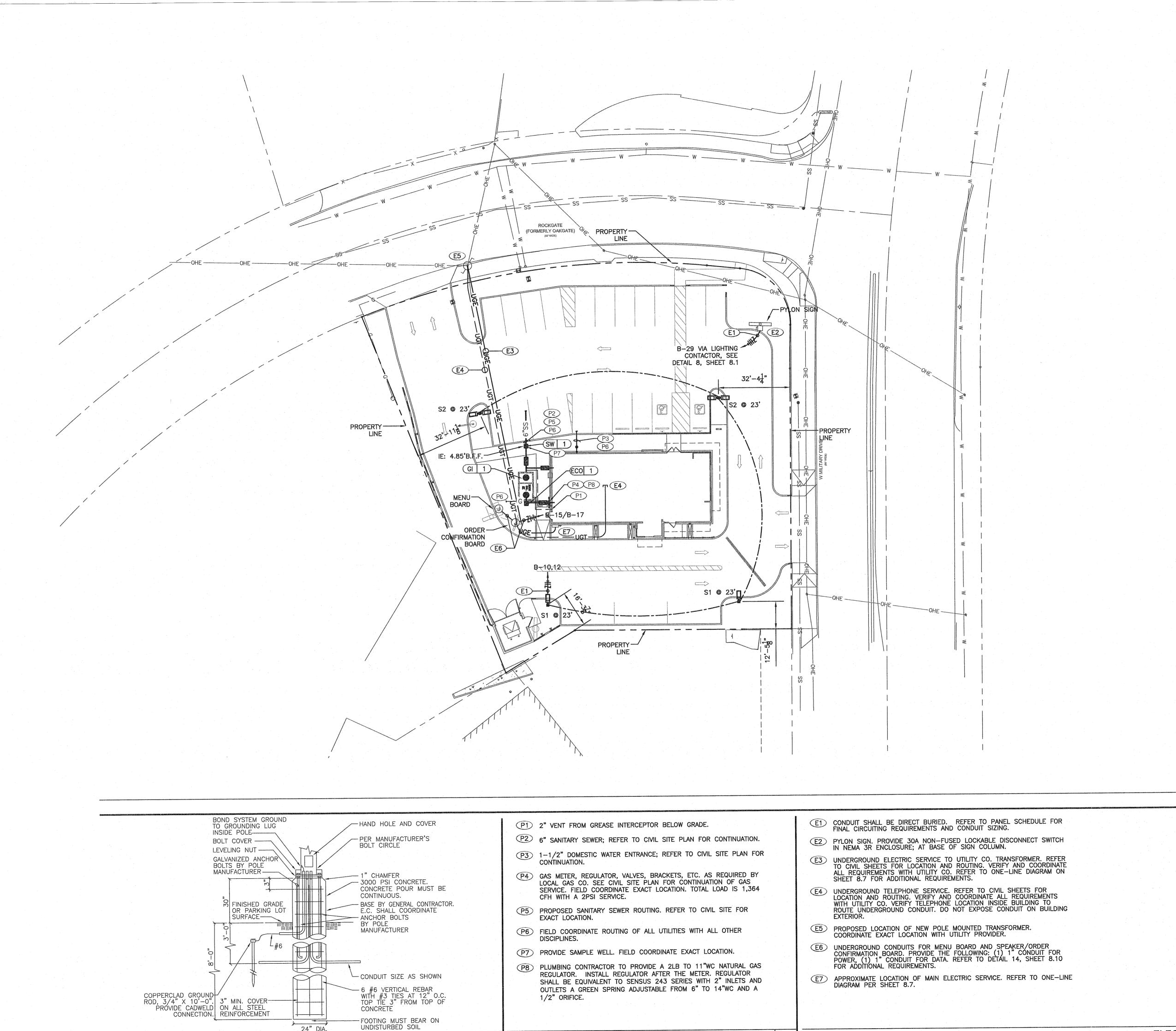
REVISIONS:

S F

Ö



DATE: 4/25/2022 JOB NO: 068727600 DRAWN BY: MJG SHEET NUMBER:



PLUMBING KEY NOTES

POLE BASE DETAIL

REVISIONS:

SITE PLAN.

MILLINGS/KIFIC Rockgate
6807 Military Dr W, San Antonio, Tx. 78227

ENCINEERING

5658 S. Stoples, 2018 360

Corpus Christ, 17, 78411

P. (361)852-2727 F. (361)852-2822

Texas Firm Registration No. F-005318



SEAN M. RODRIGUEZ

SEAN M. RODRIGUEZ

96478

Charles
William
Pope
& ASSOCIATES
ARCHITECTURE PLANNING CONSULTIN
7400 BLANCO RD, # 257, SAN ANTONIO, TX. 7827

DATE: 04.27.22

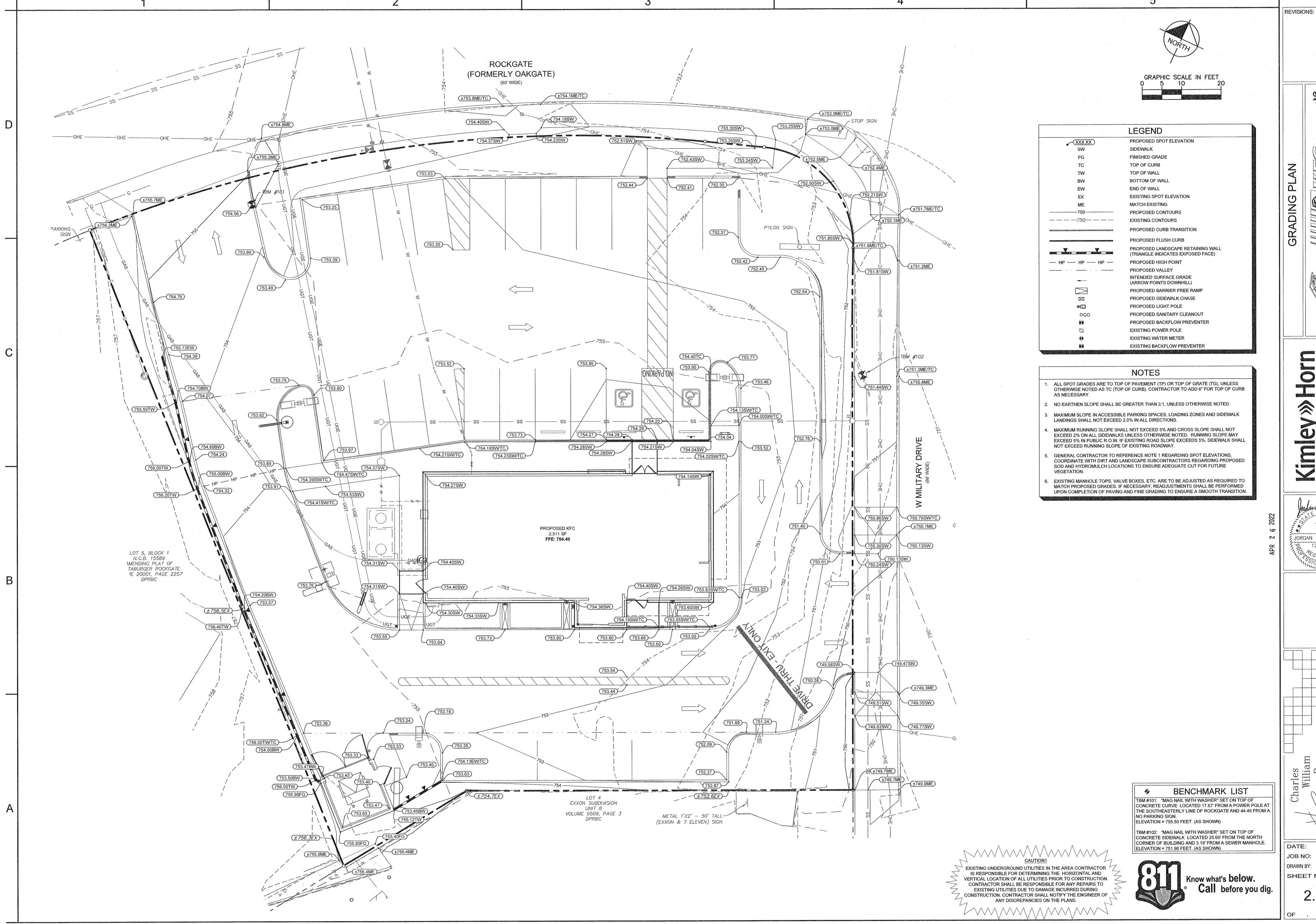
JOB NO: 37692

DRAWN BY: MRL

SHEET NUMBER:

2.2.2

MEP SITE PLAN 1"=20'-0" A



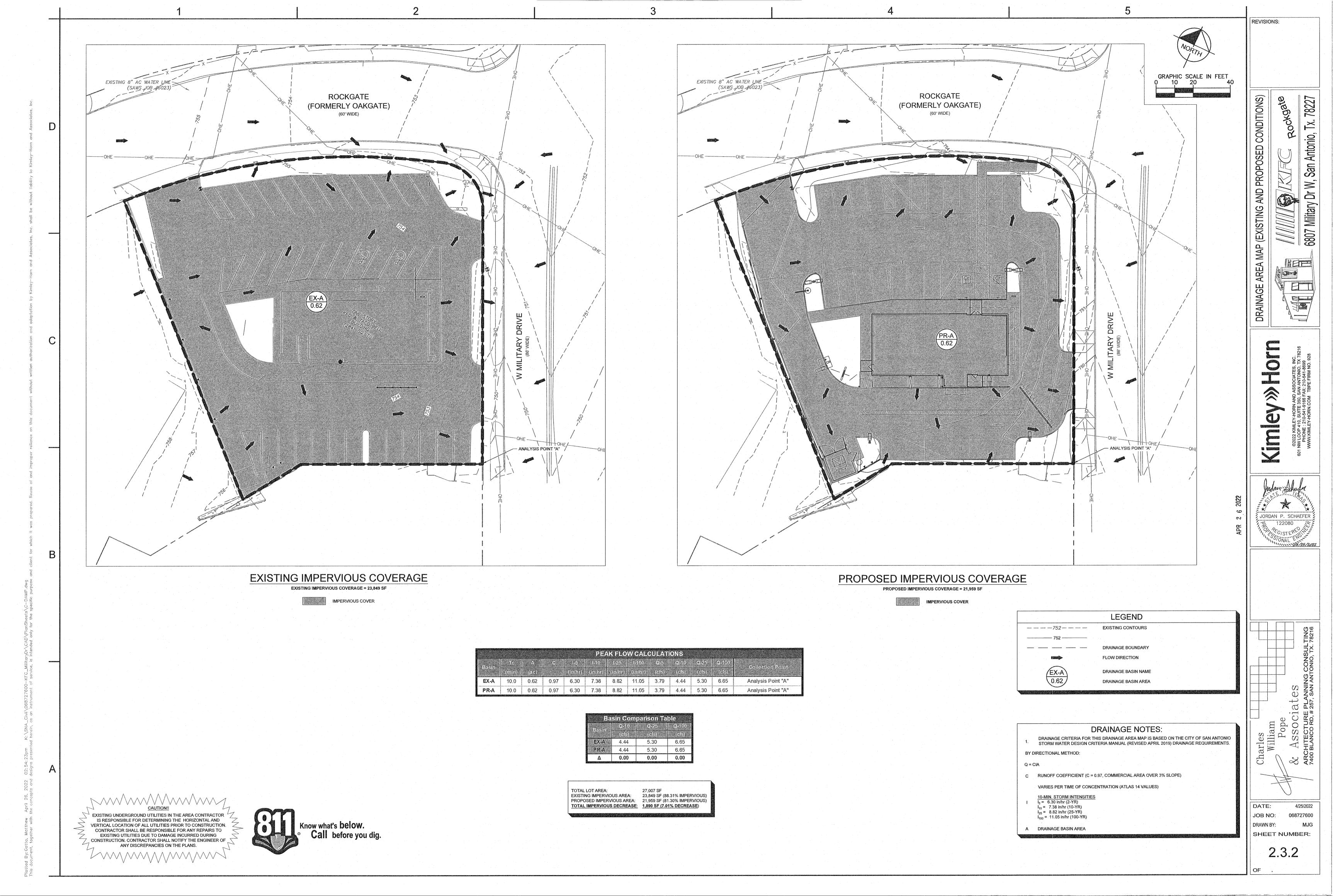
REVISIONS:

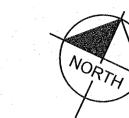
San Antonio, Tx. 78227

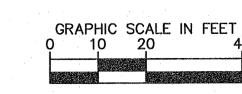
6807 Military Dr W, S

4/25/2022 068727600 SHEET NUMBER:

2.3.1





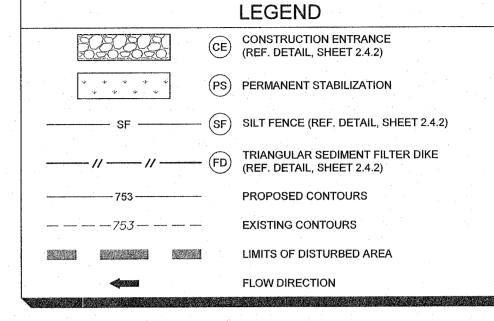


SITE DATA (27,497 SF) TOTAL LOT AREA TOTAL AREA DISTURBED. (29,816 SF) (21,903 SF) (2,801 SF) 0.06 AC (5,112 SF) **NEW LANDSCAPED AREA** DOES NOT INCLUDE ANY OFF-SITE DISPOSAL OR BORROW AREAS - CONTRACTOR TO

UPDATE AS NECESSARY DURING CONSTRUCTION. NO SINGLE DRAINAGE AREA EXCEEDS 10 ACRES, THEREFORE SEDIMENTATION BASIN IS

EROSION CONTROL SCHEDULE AND SEQUENCING

1		
I.	ROUGH GRADING/ DEMOLITION	CONSTRUCTION ENTRANCE/EXIT AND SILT FENCE PROTECTION SHALL BE INSTALLED PRIOR TO THE INITIATION OF ROUGH GRADING AND DEMOLITION, AS NEEDED.
II.	UTILITY INSTALLATION	ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING UTILITY INSTALLATION.
III.	PAVING	ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING PAVING AND THROUGHOUT THE REMAINDER OF THE PROJECT.
IV.	FINAL GRADING/ SOIL STABILIZATION/ LANDSCAPING	ALL TEMPORARY EROSION CONTROL MEASURES TO BE REMOVED AT THE CONCLUSION OF THE PROJECT AS DIRECTED BY THE CITY OR COUNTY.



AREAS CONTAINED WITHIN THE PROPERTY BOUNDARIES WILL BE AREAS OF DISTURBANCE AND SOIL STABILIZATION. ALL SOILS WITHIN THESE LIMITS SHALL BE

STABILIZED BY VEGETATION OR STRUCTURE. ALL CONSTRUCTION-RELATED VEHICLES MUST PARK INSIDE THE LIMITS OF CONSTRUCTION AND SERVED BY APPROPRIATE TEMPORARY CONTROLS, OR ON

CITY-APPROVED SURFACES OUTSIDE THE LIMITS OF CONSTRUCTION. CONTRACTOR SHALL REMOVE ALL SEDIMENT AND DEBRIS FROM CONSTRUCTED STORM SEWER SYSTEM UPON COMPLETION OF WORK.

NECESSARY TO CONTROL AND LIMIT SILT AND SEDIMENT LEAVING THE SITE. SPECIFICALLY, THE CONTRACTOR SHALL PROTECT ALL PUBLIC STREETS. ALLEYS. STREAMS, STORM DRAIN SYSTEMS AND INLETS FROM EROSION DEPOSITS. THE CONTRACTOR RESPONSIBLE FOR MAINTAINING EROSION CONTROL SHALL PROVIDE STREET CLEANING ON PUBLIC STREETS IF ANY EARTH MATERIAL IS TRANSPORTED FROM THE CONSTRUCTION SITE AT THE END OF EACH DAY. EARTH MATERIAL SHALL NOT BE ALLOWED TO ACCUMULATE ON CITY AND TXDOT ROADS

SITE MAP-SITE SPECIFIC NOTES

CONSTRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE LEAST AMOUNT OF DISTURBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE. ADDITIONALLY, CONSTRUCTION ENTRANCE SHALL BE LOCATED TO COINCIDE WITH THE PHASING OF THE PAVEMENT REPLACEMENT.

THE NATURE OF THIS SITE'S CONSTRUCTION CONSISTS OF:

A. CLEARING AND GRUBBING B. PRELIMINARY GRADING C. UTILITY INSTALLATION

D. PAVEMENT CONSTRUCTION

E. BUILDING CONSTRUCTION F. FINAL GRADING AND STABILIZATION

THE SUBSURFACE CONDITIONS ON-SITE GENERALLY CONSIST OF FILL MATERIAL UNDERLAIN BY FAT CLAY, PER THE GEOTECHNICAL ENGINEERING REPORT, REPORT NO. 90215227 PREPARED BY TERRACON CONSULTANTS, INC. ON OCTOBER 26, 2021. STORM WATER ON-SITE WILL LEAVE THE SITE VIA SHEET SURFACE FLOW.

5. POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES INCLUDE

STABILIZATION BY PERMANENT PAVING, OR LANDSCAPING.

6. DISTURBED PORTIONS OF SITE MUST BE STABILIZED. STABILIZATION PRACTICES MUST BE INITIATED WITHIN 14 DAYS IN PORTIONS OF THE SITE WHERE CONSTRUCTION HAS BEEN EITHER TEMPORARILY OR PERMANENTLY CEASED, UNLESS EXCEPTED WITHIN THE TPDES PERMIT. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF STABILIZATION OR PERMANENT DRAINAGE FACILITIES ACCORDING TO FEMA'S MAP SERVICE CENTER, THE SITE IS LOCATED IN ZONE "X"

DESIGNATED FLOODPLAIN PER FIRM NUMBER 48029C0370G, EFFECTIVE ON 09/29/2010. 8. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP/SITE MAP TO INCLUDE BMP'S FOR ANY OFF-SITE MATERIAL WASTE, BORROW OR EQUIPMENT STORAGE AREAS.

CONTRACTOR SHALL INSPECT DISTURBED AREAS, MATERIAL STORAGE AREAS EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND VEHICLE ENTRY AND EXIT AREAS AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER.

SITE MAP-GENERAL NOTES

CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.

CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP.

DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND EXISTING CONTOURS, FLOW ARROWS, AND SLOPES.

TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED, CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE

BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.

SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ONSITE SEWER SYSTEM CONNECTED TO A MUNICIPAL SEWER SYSTEM.

 4 Existing underground utilities in the area contractor 4 IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND

VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

BENCHMARK LIST TBM #101: "MAG NAIL WITH WASHER" SET ON TOP OF CONCRETE CURVE LOCATED 17.67' FROM A POWER POLE AT THE SOUTHEASTERLY LINE OF ROCKGATE AND 44.49 FROM A

NO PARKING SIGN. ELEVATION = 755.50 FEET. (AS SHOWN)

TBM #102: "MAG NAIL WITH WASHER" SET ON TOP OF CONCRETE SIDEWALK LOCATED 25.69' FROM THE NORTH CORNER OF BUILDING AND 3.19' FROM A SEWER MANHOLE. ELEVATION = 751.96 FEET. (AS SHOWN)

Know what's below.

JORDAN P. SCHAEFER

REVISIONS:

CONTROL

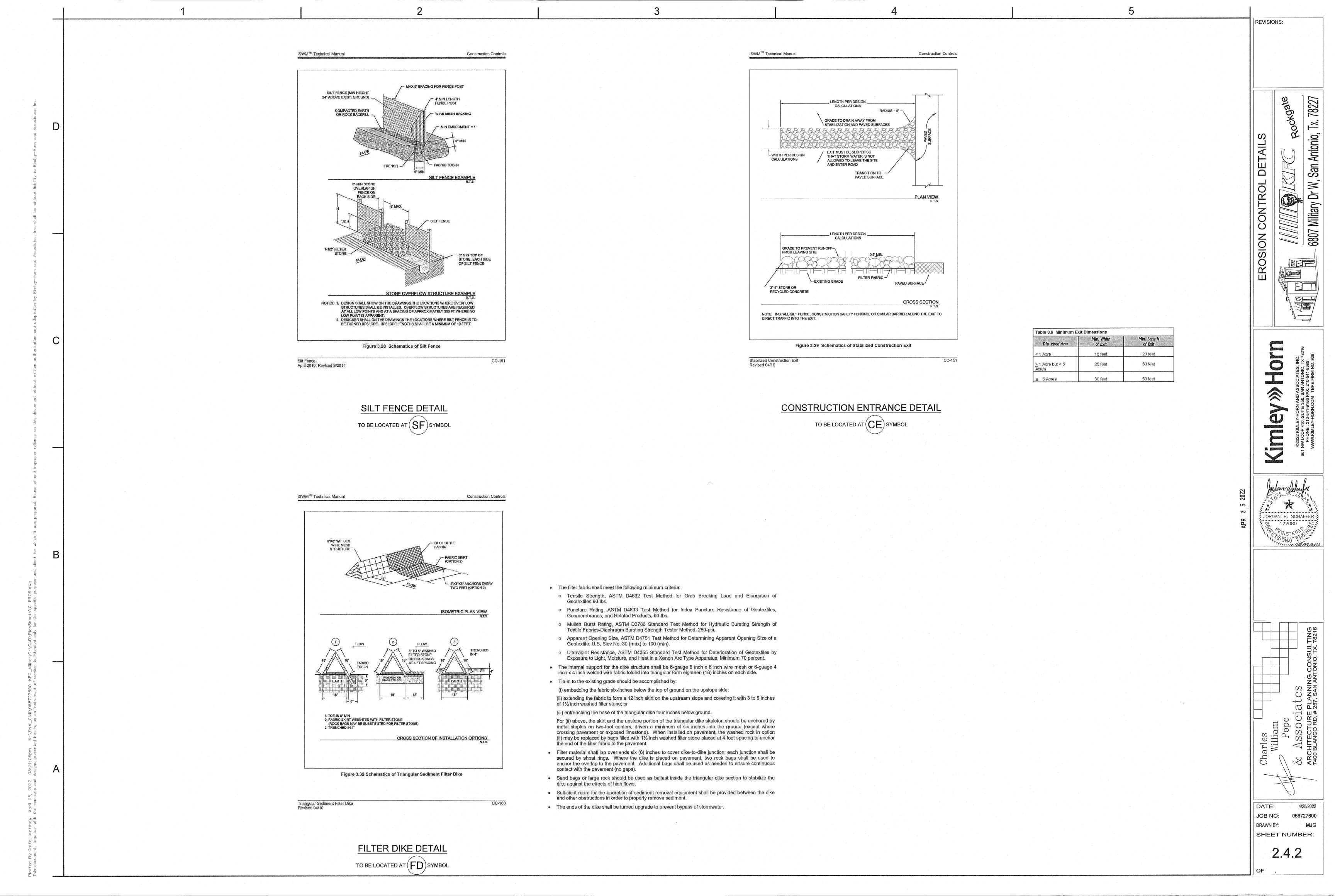
EROSION

San Antonio, Tx. 78227

6807 Military Dr W, 9

Pope Cates ASSOCIAtes ARCHITECTURE PLANNING CONSULTI 7400 BLANCO RD, # 257, SAN ANTONIO, TX. 78

DATE: JOB NO: DRAWN BY: SHEET NUMBER:



19. ALL FIRE HYDRANTS, VALVES, TEES, BENDS, WYES, REDUCERS, FITTINGS, AND ENDS SHALL BE MECHANICALLY RESTRAINED AND/OR 20.CONTRACTOR SHALL INSTALL A FULL SEGMENT OF WATER OR WASTEWATER PIPE CENTERED AT ALL UTILITY CROSSINGS SO THAT THE 21.ALL CROSSINGS AND LOCATIONS WHERE WASTEWATER IS LESS THAN 9-FEET FROM WATER, WASTEWATER CONSTRUCTION AND 22.ALL CROSSING AND LOCATIONS WHERE WATER IS LESS THAN 9-FEET FROM WASTEWATER, WATER CONSTRUCTION AND MATERIALS

23.ALL WATER AND WASTEWATER SHALL BE TESTED IN ACCORDANCE WITH THE CITY, AWWA, AND TCEQ STANDARDS AND SPECIFICATIONS. AT A MINIMUM, THIS SHALL CONSIST OF THE FOLLOWING:

a. ALL WATERLINES SHALL BE HYDROSTATICALLY TESTED AND CHLORINATED BEFORE BEING PLACED INTO SERVICE. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR THEIR REQUIRED PROCEDURES AND SHALL ALSO COMPLY WITH TCEQ REGULATIONS. D. WASTEWATER LINES AND MANHOLES SHALL BE PRESSURE TESTED. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR THEIR REQUIRED PROCEDURES AND SHALL ALSO COMPLY WITH TCEQ REGULATIONS. AFTER COMPLETION OF THESE TESTS, A TELEVISION INSPECTION SHALL BE PERFORMED AND PROVIDED TO THE CITY AND OWNER ON A DVD.

24. CONTRACTOR SHALL INSTALL DETECTABLE WIRING OR MARKING TAPE A MINIMUM OF 12" ABOVE WATER AND WASTEWATER LINES. MARKER DECALS SHALL BE LABELED "CAUTION - WATER LINE". OR "CAUTION - SEWER LINE". DETECTABLE WIRING AND MARKING TAPE SHALL COMPLY WITH CITY STANDARDS, AND SHALL BE INCLUDED IN THE COST OF THE WATER AND WASTEWATER PIPE.

25.DUCTILE IRON PIPE SHALL BE PROTECTED FROM CORROSION BY A LOW-DENSITY POLYETHYLENE LINER WRAP THAT IS AT LEAST A SINGLE LAYER OF 8-MIL. ALL DUCTILE IRON JOINTS SHALL BE BONDED.

26.WATERLINES SHALL BE INSTALLED AT NO LESS THAN THE MINIMUM COVER REQUIRED BY THE CITY. 27. CONTRACTOR SHALL PROVIDE CLEAN-OUTS FOR PRIVATE SANITARY SEWER LINES AT ALL CHANGES IN DIRECTION AND 100-FOOT INTERVALS, OR AS REQUIRED BY THE APPLICABLE PLUMBING CODE. CLEAN-OUTS REQUIRED IN PAVEMENT OR SIDEWALKS SHALL

28.CONTRACTOR SHALL PROVIDE BACKWATER VALVES FOR PLUMBING FIXTURES AS REQUIRED BY THE APPLICABLE PLUMBING CODE (E.G. FLOOR ELEVATION OF FIXTURE UNIT IS BELOW THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC SEWER). CONTRACTOR SHALL REVIEW BOTH MEP AND CIVIL PLANS TO CONFIRM WHERE THESE ARE REQUIRED. 29. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL

ENGINEER IN THE STATE OF TEXAS. TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.

JORDAN P SCHAFFER

REVISIONS:

Rockgate

INCLUDING ALL REVISIONS AND ADDENDA TO THIS REPORT THAT MAY HAVE BEEN RELEASED AFTER THE NOTED DATE.

> NO PARKING SIGN ELEVATION = 755.50 FEET. (AS SHOWN) TBM #102: "MAG NAIL WITH WASHER" SET ON TOP OF CONCRETE SIDEWALK LOCATED 25.69' FROM THE NORTH CORNER OF BUILDING AND 3.19' FROM A SEWER MANHOLE. ELEVATION = 751.96 FEET. (AS SHOWN)

Know what's **DeIOW**.

THESE PLAN AND GENERAL NOTES REFER TO:

BENCHMARK LIST

GEOTECHNICAL ENGINEERING REPORT

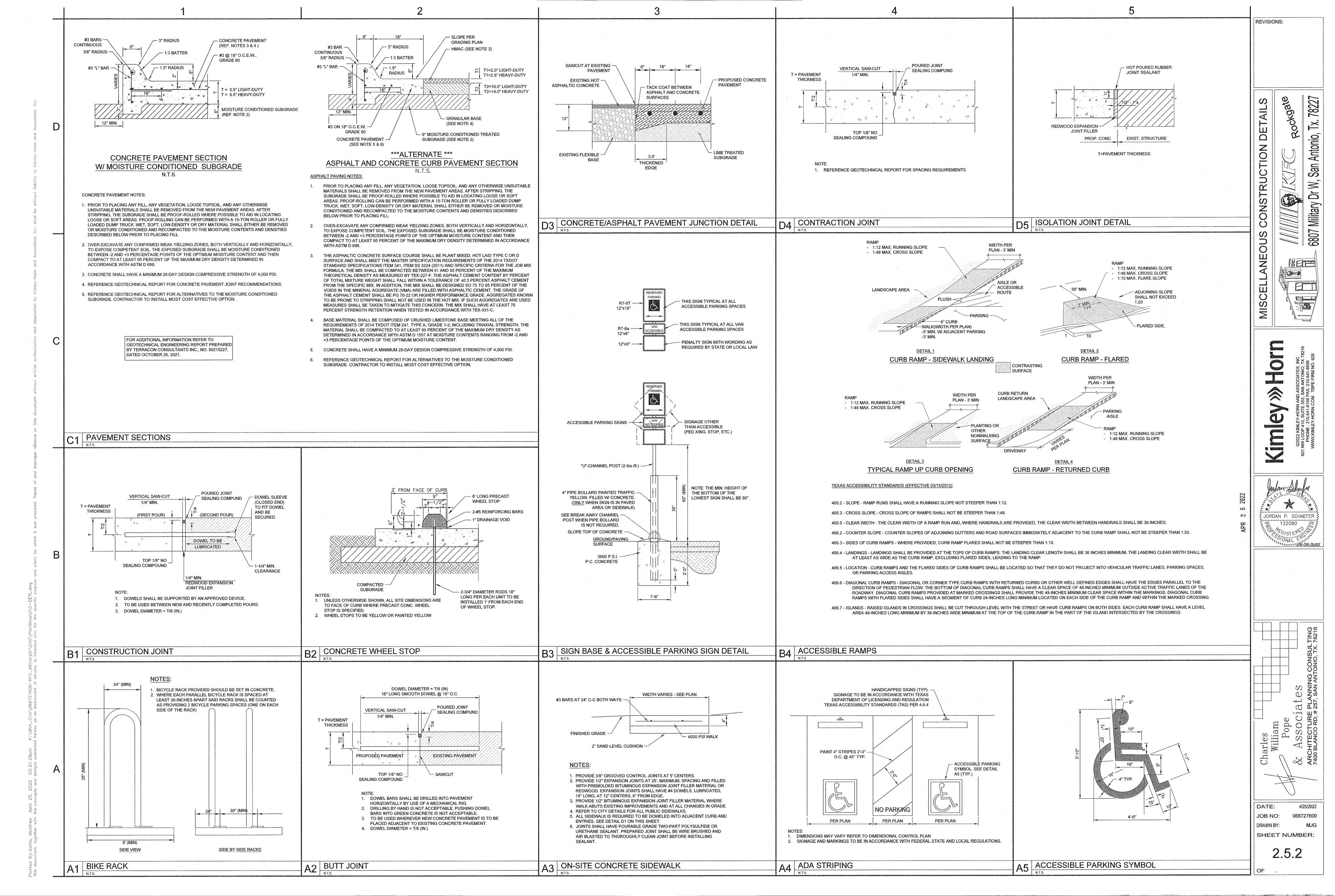
TBM #101: "MAG NAIL WITH WASHER" SET ON TOP OF

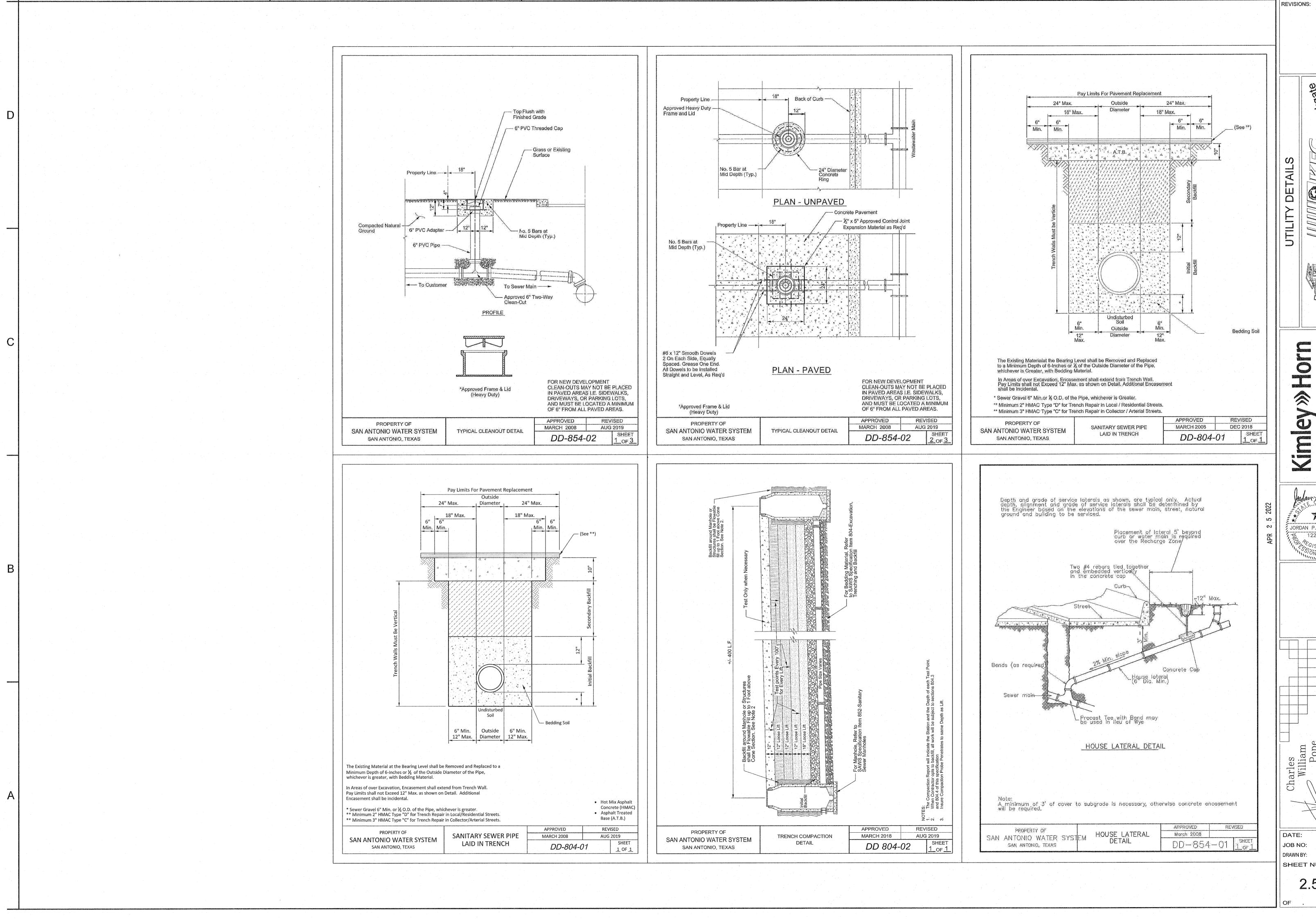
TERRACON CONSULTANTS INC.

NO. 90215227

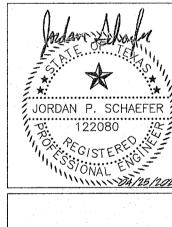
CONCRETE CURVE LOCATED 17.67' FROM A POWER POLE AT THE SOUTHEASTERLY LINE OF ROCKGATE AND 44.49 FROM A JOB NO: DRAWN BY:

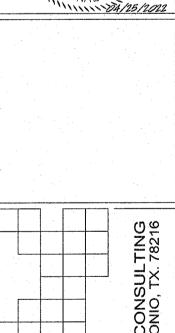
4/25/2022 SHEET NUMBER





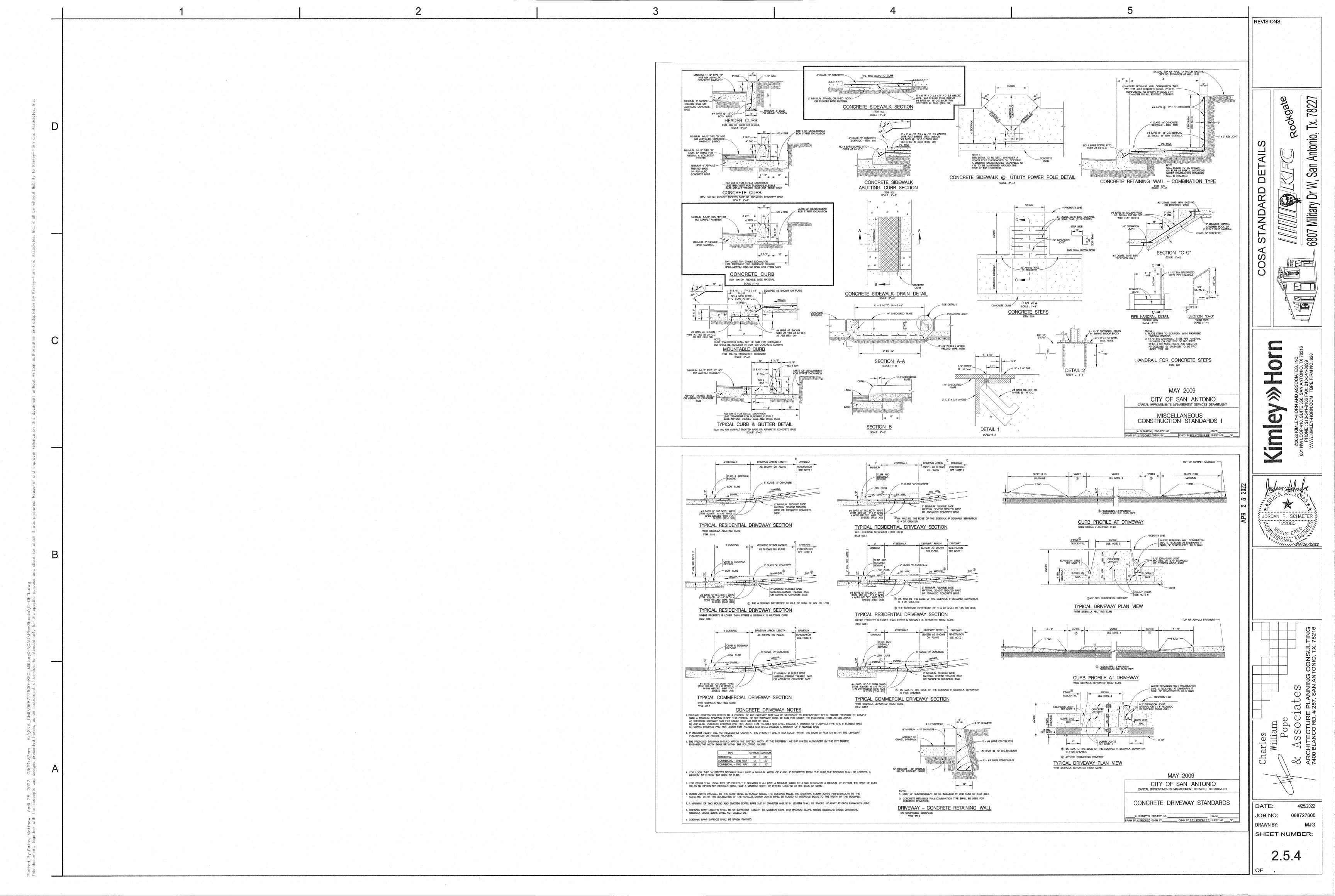
6807 Military Dr W, San Antonio, Tx. 78227 Rockgate

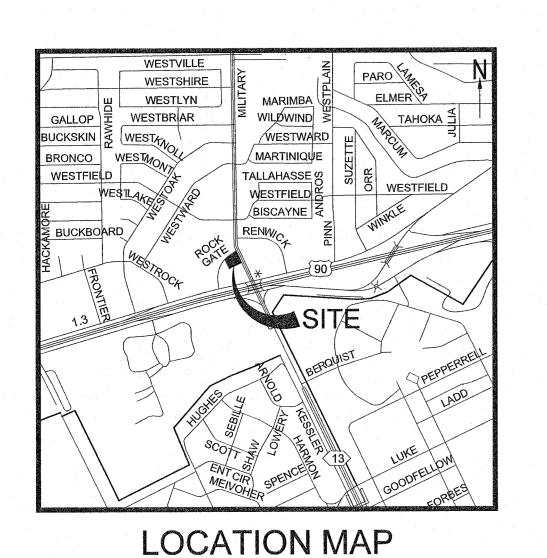




Pope & ASSOCIAtes ARCHITECTURE PLANNING CONSUMENCO BLANCO RD, # 257, SAN ANTONIO, TO

4/25/2022 068727600 SHEET NUMBER:





SCALE: NTS

TREE CALCULATION TABLE

TREE PRESERVATION LEGEND

—— — PROPERTY LINE

TREE TO BE REMOVED

EXISTING TREE TO REMAIN

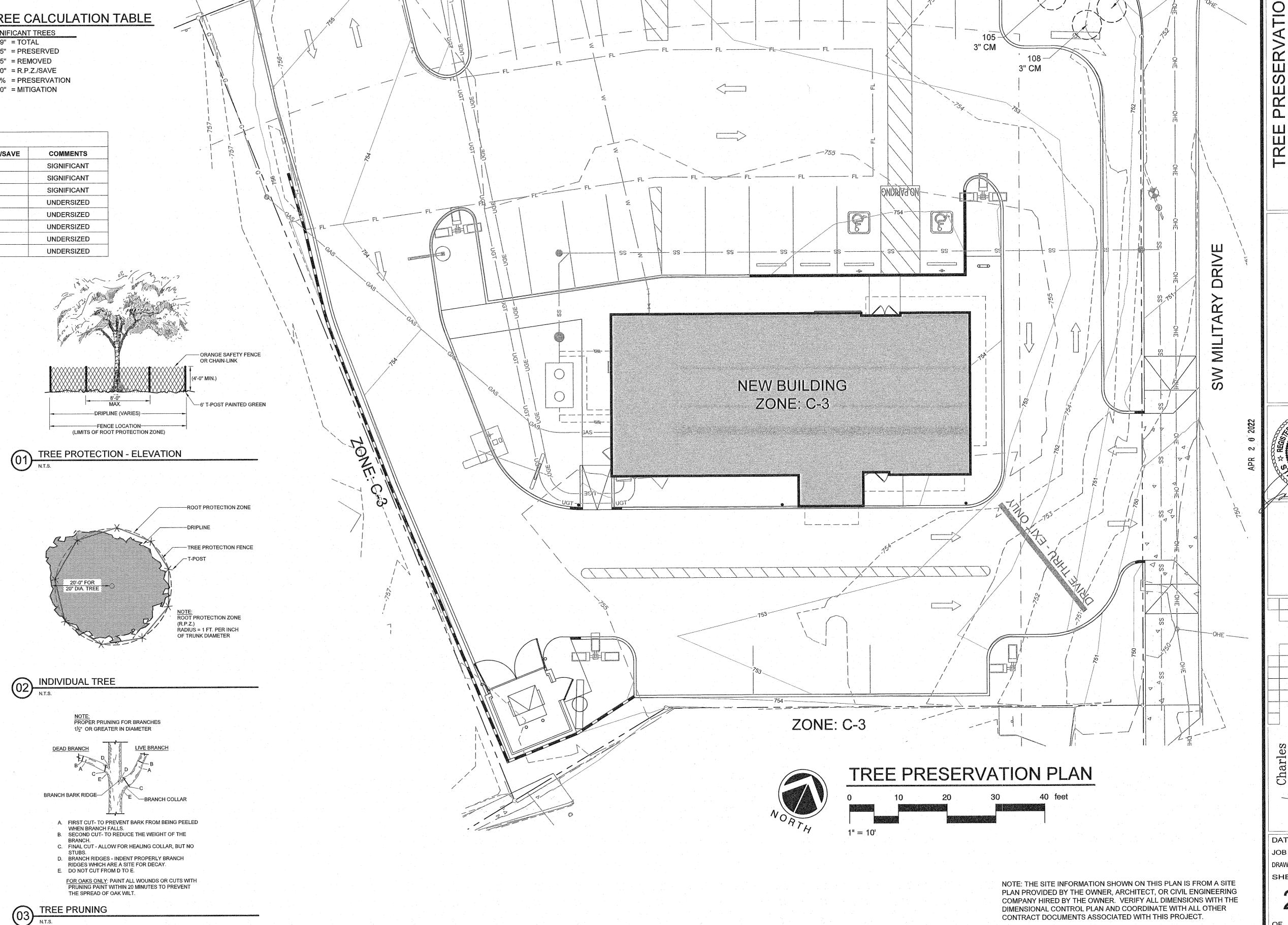
SIGNIFICANT TREES

- 29" = TOTAL 20.5" = PRESERVED
- 8.5" = REMOVED0" = R.P.Z./SAVE
- 70% = PRESERVATION
- 0" = MITIGATION

TREE INVENTORY						
TAG#	DBH	SPECIES	PRESERVE	REMOVE	RPZ/SAVE	COMMENTS
101	9	CEDAR ELM	9			SIGNIFICANT
102	11.5	CEDAR ELM	11.5			SIGNIFICANT
103	8.5	CEDAR ELM		8.5		SIGNIFICANT
104	3	CRAPE MYRTLE		Х		UNDERSIZED
105	3	CRAPE MYRTLE		X		UNDERSIZED
106	3	CRAPE MYRTLE		X		UNDERSIZED
107	3	CRAPE MYRTLE		Х		UNDERSIZED
108	3	CRAPE MYRTLE		Х		UNDERSIZED

TREE PROTECTION GENERAL NOTES

- TREE PROTECTION TO BE ERECTED AROUND ALL PROTECTED SIZE TREES TO BE AFFECTED BY CONSTRUCTION ACTIVITY.
- 2. ALL TREES SHALL REMAIN UNLESS NOTED ON THE CITY APPROVED PLANS.
- NO SITE PREPARATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND PROTECTION MEASURES HAVE NOT BEEN COMPLETED AND APPROVED BY THE CITY INSPECTOR.
- 4. TREE PROTECTION FENCING SHALL BE MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION.
- 5. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN THREE INCHES (3") IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT IF ROOTS LARGER THAN THREE INCHES (3") WITHIN THE FIVE FOOT (5') ROOT PROTECTION ZONE NEED TO BE PRUNED. ALL ROOTS LARGER THAN ONE INCH (1") IN DIAMETER SHALL BE CLEANLY CUT BY HAND WITH BYPASS TYPE PRUNING SHEARS.
- 6. THE ROOT PROTECTION ZONE IS THAT AREA SURROUNDING A TREE, AS MEASURED BY A RADIUS FROM THE TREE TRUNK, IN WHICH NO EQUIPMENT, VEHICLES OR MATERIALS MAY BE OPERATED OR BE STORED. THE REQUIRED RADIUS LENGTH IS ONE FOOT (1') PER DIAMETER INCH OF THE TREE. FOR EXAMPLE. A TEN INCH (10") DIAMETER TREE WOULD HAVE A TEN FOOT (10') RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES THAT ARE IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. ALL OAK WOUNDS SHALL BE PAINTED OVER WITH AN ASPHALTIC TREE WOUND SEALER, WITHIN TWENTY (20) MINUTES TO PREVENT OAK WILT.
- 7. NO DISTURBANCE SHALL OCCUR CLOSER TO THE TRUNK THAN HALF THE ROOT PROTECTION ZONE AREA.
- 8. TREES, SHRUBS, OR BUSHES TO BE CLEARED FROM PROTECTED ROOT ZONE AREAS SHALL BE REMOVED BY HAND.
- 9. TREES DAMAGED OR LOST DUE TO CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED ON A 1:1 BASIS FOR SIGNIFICANT TREES AND 3:1 BASIS FOR HERITAGE SIZED TREES TO SATISFY THE OWNER AND CITY TREE ORDINANCE MITIGATION REQUIREMENTS. I.E. LOSS OF A 30" DIAMETER TREE WILL REQUIRE 90" OF MITIGATION.
- 10. EXPOSED ROOTS SHALL BE COVERED AT THE END OF EACH DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH, OR WET BURLAP.
- 11. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST OFFICE PRIOR TO ITS REMOVAL.
- 12. ALL EXISTING TREES ARE TO BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE DURATION OF CONSTRUCTION. CONTRACTOR IS TO ESTABLISH A DAILY OR AS NEEDED WATERING ROUTINE FOR ALL EXISTING TREES IMPACTED BY CONSTRUCTION. PROVIDE ONE APPLICATION OF ROOT STIMULATOR TO EXISTING TREES PRIOR TO START OF WORK.
- 13. THE PROPOSED FINISHED GRADE WITHIN THE ROOT PROTECTION ZONE OF ANY TREE TO BE PRESERVED SHALL NOT BE RAISED OR LOWERED MORE THAN THREE INCHES (3").
- 14. WHERE TREE FENCING WILL CONFLICT WITH NECESSARY CONSTRUCTION ACTIVITY THE FENCING SHALL BE ADJUSTED AND A 6" COARSE LAYER OF MULCH SHALL BE INSTALLED AND MAINTAINED OVER TREE ROOT PROTECTION ZONE. WHERE FENCING WILL ENCROACH WITHIN FIVE FEET (5') OF EXISTING TREE, TREE-ARMOR IS TO BE INSTALLED.



ROCKGATE DRIVE

11.5" CEDAR ELM

9" CEDAR ELM

8.5" CEDAR ELM

/3" CM

REVISIONS:

DATE:

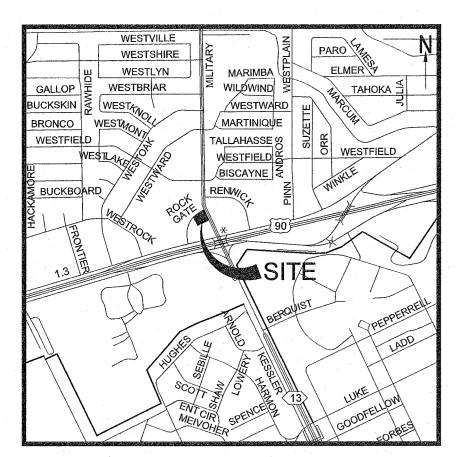
DRAWN BY:

SHEET NUMBER:

37692

Rockgate

6807 Military Dr W, San Antonio, Tx. 78227



LOCATION MAP

SCALE: NTS

LEGEND

EXISTING TREE TO REMAIN ---- PROPERTY LINE

TREE DESIGNATIONS

(PS) = PARKING LOT SHADING & CANOPY TREE (ST) = STREET TREE & CANOPY TREE (BT) = BUFFER TREE & CANOPY TREE (CT) = CANOPY TREE

CITY OF SAN ANTONIO LANDSCAPE ORDINANCE REQUIREMENTS

TREE CANOPY SHADING 27,103 SF x 25%

9,546 SF x 25%

= 6,776 SF SHADING REQUIRED

3 TREE(S) PROVIDED @ 1200 x 90%

2 TREE(S) EXISTING @ 875 x 100%

9 TREE(S) PROVIDED @ 275 x 90% = 7,218 SF (26%) SHADING PROVIDED

70 LANDSCAPE POINTS REQUIRED

= 20 POINTS (PS) PARKING SHADING

= 2,387 SF SHADING REQUIRED 1 TREE(S) PROVIDED @ 1200 x 50% 2 TREE(S) EXISTING @ 875 x 100% 1 TREE(S) PROVIDED @ 275 x 75% 2 TREE(S) PROVIDED @ 275 x 50% = 2,831 SF (29%) SHADING PROVIDED

= 25 POINTS PARKING SCREENING

(ST) STREET TREES = 25 POINTS ROCKGATE 193 LF x 75% = 145 / 30 (OHE)

SW MILITARY 156 LF x 75% = 117 / 30 (OHE) = 4 TREE(S) REQUIRED

= 5 TREE(S) REQUIRED

TOTAL POINTS PER PLAN

= 70 POINTS

BUFFERS TYPE 'B' 15' ADJOINING STREET BUFFER PROVIDED ALONG: o SW MILITARY - 156 LF

PROVIDED 2,340 SF NET BUFFER YARD AREA REQUIRED *3 LARGE SPECIES TREES REQUIRED 3 SMALL SPECIES TREES REQUIRED 13 LARGE SPECIES SHRUBS REQUIRED 19 MEDIUM SPECIES SHRUBS REQUIRED

*SMALL TREES USED DUE TO OHE

REFERENCE DETAIL 08/ SHT. 2.7.3

RRIGATION

IRRIGATION SYSTEM PROVIDED REF. IRRIGATION DRAWING(S).

LANDSCAPE MATERIAL SCHEDULE

SYMBOL	CODE	DESCRIPTION	SIZE/ CONDITION
	BLD	(15) LIMESTONE BOULDERS	3'X3' TO 4'X4', BOULDERS TO BE WIDER TH THEY ARE TALL & BURIED AT WIDEST POIN REFERENCE DETAIL 11/ SHT. 2.7.3
	GRA	TEXAS BLEND RIVER GRAVEL ON 5oz. WEED BARRIER FABRIC	4" DEPTH, 3/4"-2" DIA., WASHED, WELL SORTED, AS SHOWN REFERENCE DETAIL 09/ SHT. 2.7.3
	DG	DECOMPOSED GRANITE TEXAS PINK GRANITE	3" DEPTH COMPACTED STABILIZED W/ ADDITIVE REFERENCE DETAIL 10/ SHT. 2.7.3
	EDG	EDGING	3/16" x 4" STAKED; PAINTED GREEN

EACH NEW TREE IS TO BE GROWN IN A NURSERY (NOT FIELD DUG).

FREE

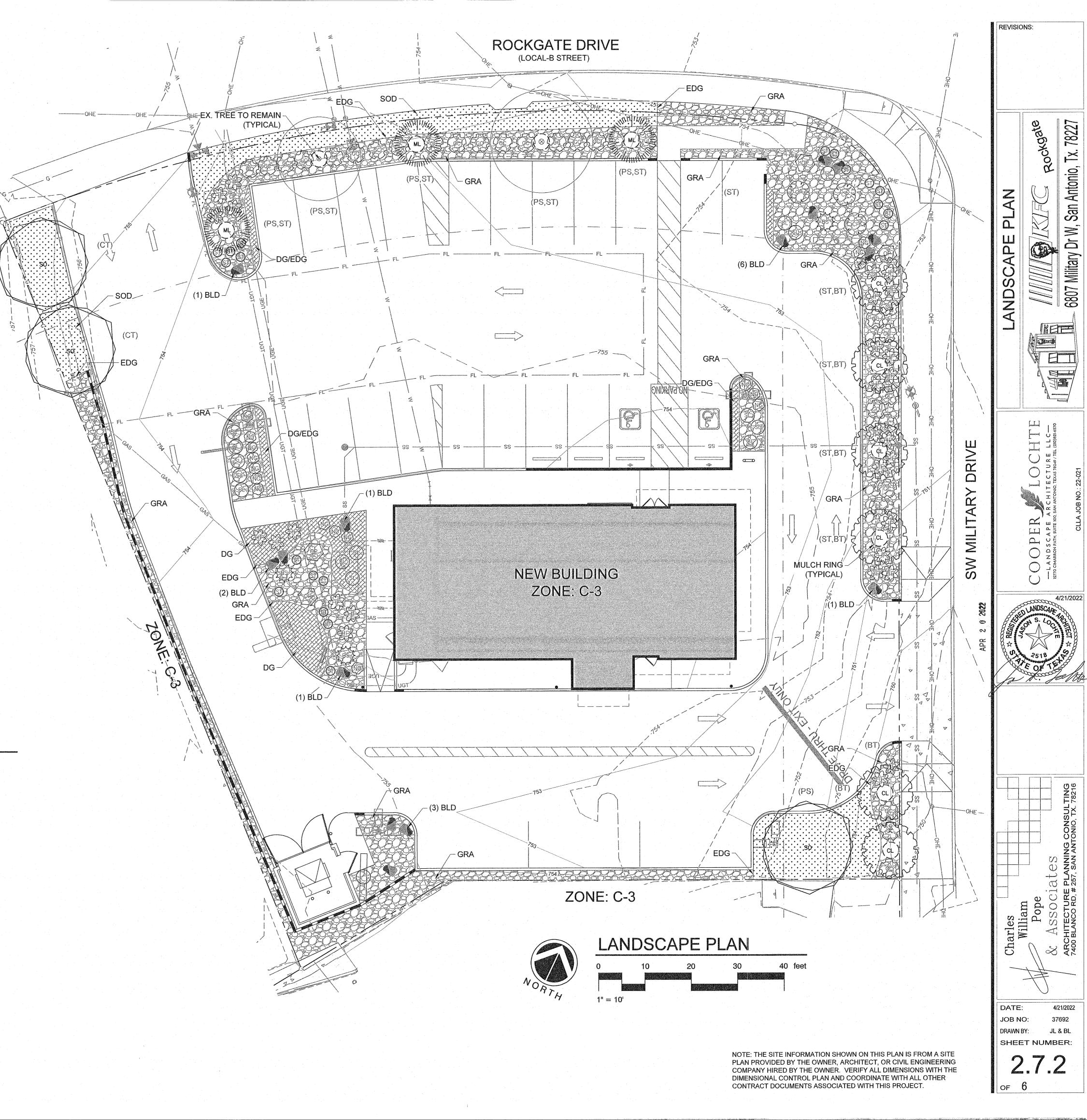
BID "UNIT" PRICES FOR ALL ITEMS QUANTITIES ON THE PLANS ARE ESTIMATES ONLY. THE LANDSCAPE CONTRACTOR SHALL VERIFY ALL QUANTITIES AND IS RESPONSIBLE FOR INCLUDING IN THE BID THE PLANTING AND/OR INSTALLATION OF ALL ITEMS SHOWN ON THE PLAN IN ACCORDANCE WITH THE SPECIFICATION. ANY ERRORS ON THE PLAN OR QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, BY THE CONTRACTOR, PRIOR TO SUBMITTAL OF

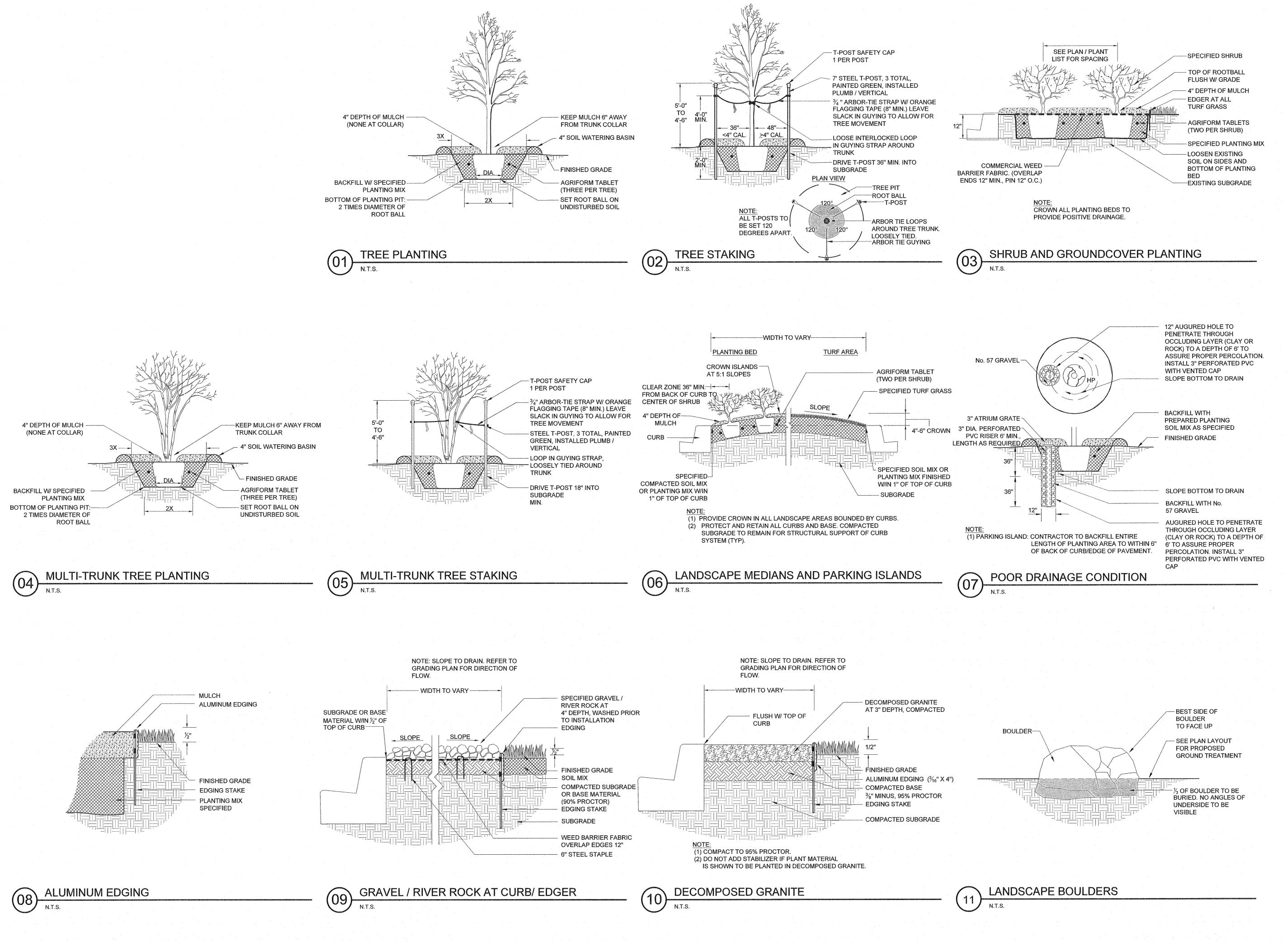
4. ALL TREES TO HAVE SINGLE, STRAIGHT, UNCUT LEADER, UNLESS OTHERWISE NOTED.

ALUMINUM EDGER

PLANT SCHEDULE

TREES	CODE	COMMON / BOTANICAL NAME	CONT	CAL	SIZE
Ex a 25	CL	DESERT WILLOW / CHILOPSIS LINEARIS `BURGUNDY` MULTI-TRUNK	CONT.	2"CAL	6`-8`H, 3`-4`5
	50	SHUMARD RED OAK / QUERCUS SHUMARDII MATCHING, STRAIGHT TRUNK	CONT.	2"CAL	8`-10`H, 3`-4`5
ML ML	ML	TEXAS MOUNTAIN LAUREL / SOPHORA SECUNDIFLORA MULTI-TRUNK	CONT.	2"CAL	6`-8`H, 3`-4`5
SHRUBS	CODE	COMMON / BOTANICAL NAME	CONT	SIZE	
BS }	BS	BLUE SOTOL / DASYLIRION WHEELERI FULL, WELL ROOTED	5 GAL	24"-36"H, 18"-24"S	
€GC }	GC	GREY-LEAF COTONEASTER / GREY-LEAF COTONEASTER FULL, WELL ROOTED	5 GAL	18"-24"H, 18"-24"S	
(CP)	СР	MEXICAN BIRD OF PARADISE / CAESALPINIA PULCHERRIMA FULL, WELL ROOTED	5 GAL	18"-24"H, 18"-24"S	
(F)	ST	MEXICAN FEATHER GRASS / STIPA TENACISSIMA FULL, WELL ROOTED	I GAL	8"-10"H - 8"-10"S	
NG	NG	NEW GOLD LANTANA / LANTANA X `NEW GOLD` FULL, WELL ROOTED	I GAL	8"-10"H - 8"-10"S	
	HP	RED YUCCA / HESPERALOE PARVIFLORA FULL, WELL ROOTED	5 GAL	18"-24"H, 18"-24"S	
SL	SL	SOFT LEAF YUCCA / YUCCA RECURVIFOLIA FULL, WELL ROOTED	5 GAL	18"-24"H, 18"-24"S	
OP	OP	SPINELESS PRICKLY PEAR / OPUNTIA FICUS INDICA FULL, WELL ROOTED	5 GAL	18"-24"H, 18"-24"S	
GROUND COVERS	CODE	COMMON / BOTANICAL NAME	CONT		
	SOD	BERMUDA GRASS / CYNODON DACTYLON `CELEBRATION` TIGHT SAND ROLLED JOINTS, FINISHED SOD TO BE WEED	SOD		





REVISIONS: Rockgate 6807 Military Dr W, San Antonio, Tx. 78227 LANDSCAPE

4/21/2022

William
Pope

& ASSOCIATES

ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD, # 257, SAN ANTONIO, TX. 78216 Charles Willi

4/21/2022 DATE: JOB NO: 37692 DRAWN BY: JL & BL

SHEET NUMBER:

OF 6

GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

- 1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS
- 2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE

C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED WHERE HEAT WILL DAMAGE ANY PLANT. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF TWO HUNDRED DOLLARS (\$200) PER D.B.H. INCH AND \$600 PER D.B.H. INCH FOR TREES 24 INCHES AND LARGER. D.B.H. SHALL BE MEASURED 48 INCHES ABOVE GROUND LEVEL.

D.MATERIALS

MATERIALS LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL. UPON SUBMITTALS' APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

MATERIALS SUBMITTAL

MULCH PRODUCT DATA

TOPSOIL MIX

AMENDMENT MIX/ PRODUCT DATA/ TEST RESULTS PLANTING MIX AMENDMENT MIX/ PRODUCT DATA/ TEST RESULTS

PLANTS PHOTOGRAPHS OF ONE (1) OF EACH SPECIES (OR TAGGED IN NURSERY)

FERTILIZER PRODUCT DATA PRODUCT DATA INOCULATE

PRODUCT DATA HERBICIDE

STAKING/ GUYING ALTERNATE TO DETAILS: SEND PRODUCT DATA, DETAIL

CLIENT REQUESTED TAGGING MAY SUBSTITUTE PHOTOS.

2. PLANT MATERIALS INDICATE SIZE (HEIGHT/WIDTH) AND QUALITY PER SPEC.

 A. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO STANDARDIZED PLANT NAMES, 1942 EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY STOCK FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE AMERICAN STANDARD NURSERY STOCK. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, SOUND, WELL-BRANCHED, AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY WITH APPROVAL FROM OWNER OR OWNER'S REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE.

B. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

C. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY; SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OF INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

E. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)

- ALL PLANTING BED PIT BACKFILL AREAS TO BE PREPARED USING "4-WAY BEDDING MIX" BY NEW EARTH SOILS (OR APPROVED EQUAL). INSTALL TO DEPTHS PER PLANTING DETAILS (12" DEPTH MIN). FINISHED GRADES OF PLANTING BEDS TO BE 1" BELOW FINISHED GRADE OF ADJACENT WALKWAY OR MOW STRIP OR AS SHOWN ON GRADING PLAN. PLANTING BED PIT SOIL SHALL BE A MIXTURE OF 50% COMPOST WITH 50% SCREENED AND WEED-FREE NATIVE SOIL AND SCREENED SHARP SAND. 98.5% OF THE PLANTING BED PIT SOIL PARTICLES WILL PASS THROUGH A 1/2 INCH SCREEN AND 99% OR MORE SHALL PASS THROUGH A 3/4 INCH SCREEN. COLOR TO BE A MEDIUM BROWN WITH A WEIGHT OF 1900-2250 LBS PER CUBIC YARD.
- 2. EXISTING SOIL SHALL BE REASONABLY FREE OF STONES, LUMPS OR CLAY, ROOTS AND OTHER FOREIGN MATTER, EXISTING SOIL SHALL HAVE A MINIMUM ORGANIC COMPOSITION OF 10% AND THE ACIDITY SHALL BE BETWEEN 6.0 AND 7.8 PH. CONTRACTOR SHALL SUBMIT A 1 GAL. MINIMUM SAMPLE OF THE EXISTING SOIL TO AN APPROVED TESTING FACILITY TO VERIFY COMPOSITION, ACIDITY AND ORGANIC CONTENT.
- 3. IF SOIL FAILS TO ACHIEVE THE AFOREMENTIONED PH AND ORGANIC COMPOSITION QUANTITIES, THE CONTRACTOR SHALL TILL AN ADEQUATE AMOUNT OF COMPOST INTO THE EXISTING SOIL UNTIL IT MEETS THE REQUIREMENTS THROUGHOUT THE PLANTING DEPTH.
- 4. ALL SOD AND SEED AREAS TO RECEIVE 4" DEPTH (MIN) "ENRICHED TOP SOIL" BY NEW EARTH SOILS (OR APPROVED EQUAL) PRIOR TO INSTALLATION. TOPSOIL SHALL BE NATURAL, FRIABLE, FERTILE. PH RANGE OF 6.0-7.8 WITH 15% (MIN) ORGANIC MATERIAL, AND FREE OF TRASH DEBRIS, STONES, WEEDS AND TWIGS/BRANCHES, THE PARTICLE SIZES SHALL BE SUCH THAT 98.5% OF THE TOPSOIL WILL PASS THROUGH A ½ INCH SCREEN AND 99% OR MORE SHALL PASS THROUGH A ¾ INCH SCREEN. TOPSOIL SHALL BE REVIEWED/APPROVED BY OWNER/LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. CONTRACTOR TO SUBMIT SAMPLES IN 1 GAL. (MIN) CONTAINER.
- 5. THE CONTRACTOR SHALL REESTABLISH ANY ADDITIONAL DISTURBED AREAS NOT SHOWN ON THE PLANS WITH A FULL COVERING OF SOD OR SEED. THE CONTRACTOR SHALL PROVIDE 4" DEPTH (MIN) "ENRICHED TOPSOIL" BY NEW EARTH SOILS (OR APPROVED EQUAL) IN ALL AREAS TO RECEIVE SEED OR SOD AT NO ADDITIONAL COST.
- 6. TREE PLANTING PITS SHALL BE BACKFILLED WITH "4-WAY PLANTING MIX" BY NEW EARTH SOILS (OR APPROVED EQUAL) WITH A PH RANGE OF 6.0-7.8 AND SHALL BE A MIXTURE OF COMPOST, SCREENED NATIVE SOIL AND SCREENED SHARP SAND, AND CLEARED OF ALL ROCKS, LUMPS OF CLAY AND OTHER FOREIGN MATERIAL. 98.5% OF THE MIX PARTICLES WILL PASS THROUGH A 1/2 INCH SCREEN 99% OR MORE SHALL PASS THROUGH A 3/4 INCH SCREEN. COLOR TO BE A LIGHT TO MEDIUM BROWN.
- 7. CONTRACTOR TO SUBMIT SAMPLES OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.

F. WATER

WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN AN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER. IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

*WATERING/IRRIGATION RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

G. FERTILIZER

CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY - DERIVED.

UNLESS NOTED OTHERWISE, ALL PLANTING BEDS TO BE TOP DRESSED WITH A MINIMUM OF 4" "HARDWOOD MULCH" BY NEW EARTH SOILS (OR APPROVED EQUAL) WITH A PH RANGE OF 6.5-8.5 AND SHALL BE FREE OF MAN-MADE FOREIGN MATTER, LUMBER, TREATED MATERIALS, PALLETS, GRASS AND LEAVES. NO PARTICLE SIZE SHOULD EXCEED 3.5" IN LENGTH.

I. DIGGING AND HANDLING

- 1. PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT, TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO SITE SHALL BE SPRAYED WITH AN ANTI-TRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.
- 2. BALLED AND BURLAPPED PLANTS (B&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A ROOT BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS BALLED AND BURLAPPED OR CONTAINER GROWN SHALL NOT BE HANDLED BY STEMS.
- 3. PROTECTION OF PALMS (IF APPLICABLE): ONLY A MIN. OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MIN. AMOUNT OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL.
- 4. EXCAVATION OF TREE PITS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES, HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB BASES.

J. CONTAINER GROWN STOCK

- 1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.
- 2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY
- 3. PLANT ROOTS BOUND IN CONTAINERS ARE NOT ACCEPTABLE.
- 4. SUBSTITUTION OF NON-CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE CONTAINER GROWN WILL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL OBTAINED FROM THE OWNER OR OWNER'S REPRESENTATIVE.

K. COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED BY THE OWNER OR OWNER'S REPRESENTATIVE, THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SUCCESSFULLY RE-ESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

M. MATERIALS LIST

QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIST QUANTITY, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO BIDDING OR INSTALLATION. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE.

N. FINE GRADING

- 1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. UNLESS OTHERWISE
- 2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. THIS CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.
- 3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES.

O. PLANTING PROCEDURES

- 1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL NATIONAL ONE CALL - 811 - TO LOCATE UTILITIES.
- 3. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED ROCK AND ROCK SUB-BASE FROM ALL TREE AND SHRUB PLANTING AREAS TO A MINIMUM DEPTH OF 36". CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF ROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND ADEQUATE PERCOLATION CANNOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE PLANTING DETAIL THAT ADDRESSES POOR DRAINAGE.
- 4. CONTRACTOR IS TO CONSTRUCT THE LANDSCAPE AND IRRIGATION IN A MANNER CONSISTENT WITH AND AS RECOMMENDED IN THE GEOTECHNICAL REPORT.
- 5. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS HEREIN SPECIFIED AND REQUIRED. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY/GROWING SITE.
- 6. GENERAL: COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. UPON ARRIVAL AT THE SITE, PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS STORED ON-SITE SHALL NOT REMAIN UNPLANTED FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES, METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.
- 7. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS.
- 8. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E.

TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER PERCOLATION. IF POOR PERCOLATION EXISTS, UTILIZE "POOR DRAINAGE CONDITION" PLANTING DETAIL. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE

- 9. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.
- SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS.
- 11. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACKFILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY THE WATER (AFTER TAMPING).
- 12. AMEND PINE AND OAK PLANT PITS WITH ECTOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. ALL OTHER PLANT PITS SHALL BE AMENDED WITH ENDOMYCORRHIZAL SOIL PER MANUFACTURER'S RECOMMENDATION. PROVIDE PRODUCT INFORMATION SUBMITTAL FOR SOILNOC SRT ADVANCED MYCORRHIZAL INOCULUM (OR EQUAL) PRIOR TO INOCULATION.
- 13. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET. ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE, ONLY WITH MULCH. ALL BURLAP, ROPE, WIRES, BASKETS, ETC., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.
- 14. PRUNING: TREES SHALL BE PRUNED, AT THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT, ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING TO BE PERFORMED BY LICENSED ARBORIST, IN ACCORDANCE WITH ANSI A-300.
- 15. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE ALL DEBRIS. MIX TOP 4" TO ACHIEVE SOIL MIXTURE SPECIFIED IN SECTION E. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.
- 16. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING. THE OWNER SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.
- 17. MULCHING: PROVIDE A FOUR (4) INCH (MINIMUM) LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT PLANTED UNDER
- 18. HERBICIDE WEED CONTROL: ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, "PROPER HERBICIDE(S)" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER. (AS ALLOWED BY JURISDICTIONAL AUTHORITY).
- 19. AFTER PLANTING BED PREPARATION, INSTALL WEED BARRIER FABRIC EQUAL TO DEWITT PRO-5, 5 OZ. WOVEN, NEEDLE-PUNCHED, POLYPROPYLENE FABRIC. OVERLAP EDGES 12" MINIMUM AND SECURE TO SOIL WITH ANCHOR PINS EVERY 36" O.C.

P. LAWN SODDING/SEEDING

- 1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.
- 2. LAWN BED PREPARATION: ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL RE-GRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.
- 3. SOIL PREPARATION: PREPARE LOOSE BED FOUR (4) INCHES DEEP, HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY.

SODDING:

- A. THE CONTRACTOR SHALL SOD ALL AREAS ILLUSTRATED ON THE DRAWING AND ANY ADDITIONAL AREAS DISTURBED DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE FULL COVERAGE WITH SOLID SOD FOR THE SITE AND ADJACENT DISTURBED AREAS PRIOR TO FINAL ACCEPTANCE.
- B. THE SOD SHALL BE CERTIFIED TO MEET AMERICAN STANDARD FOR NURSERY STOCK SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.
- C. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. REMOVE ALL NETTING FROM SOD ROLLS IF USED. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A 24" STONE/MULCH STRIP SHALL BE PROVIDED - REFER TO DETAILS. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.
- D. CONTRACTOR SHALL REFERENCE PLANTING SCHEDULE FOR SEEDING VARIETY AND RATES. E. IF SEED INSTALLATION FALLS BETWEEN SEPTEMBER 15TH AND MARCH 15TH, THE CONTRACTOR SHALL INSTALL EITHER SOD OR A COLD SEASON VARIETY SEED MIX, SUCH AS WINTER RYE. IF A COOL SEASON VARIETY MIX IS INSTALLED BETWEEN SEPTEMBER 15TH AND MARCH 15TH, THE CONTRACTOR SHALL RESEED THE AREA WITH THE ORIGINAL SPECIFIED SEED MIX PER THE PLANS AND SPECIFICATIONS BETWEEN MARCH 16TH AND SEPTEMBER 14TH.
- 5. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS. THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND MOISTURE.

6. LAWN MAINTENANCE:

- A. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12"X12") UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING RE-GRADING IF NECESSARY). B. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SOD/SEED/LAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE, PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERING/IRRIGATION SCHEDULE TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.
- C. CONTRACTOR SHALL REESTABLISH 95% (MIN) COVERAGE FOR ALL DISTURBED AREAS OF VEGETATION WITHIN 90 DAYS OF SUBSTANTIAL COMPLETION. CONTRACTOR SHALL PROVIDE SEED AND/OR SOD THAT MATCHES THE ADJACENT LAWN AREA. FAILURE TO ESTABLISH AN ACCEPTABLE STAND OF VEGETATION SHALL RESULT IN THE INSTALLATION OF SOLID SOD AT THE CONTRACTORS EXPENSE.

Q. CLEANUP

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM-CLEANED. AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

R. PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. MAINTENANCE AFTER THE CERTIFICATION OF ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE TO COVER LANDSCAPE AND IRRIGATION MAINTENANCE FOR A PERIOD OF 90 CALENDAR DAYS COMMENCING AFTER ACCEPTANCE.

S. MAINTENANCE (ALTERNATE BID ITEM)

CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE FOR MAINTENANCE FOLLOWING THE INITIAL 90-DAY MAINTENANCE PERIOD ON A COST-PER-MONTH BASIS.

T. FINAL INSPECTION AND ACCEPTANCE WORK

FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

THE LIFE AND SATISFACTORY CONDITION OF ALL 1 GALLON AND LARGER PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF

- ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. 2. THE LIFE AND SATISFACTORY CONDITION OF ALL OTHER PLANT MATERIAL (INCLUDING SOD) INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE.
- 3. REPLACEMENT: ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED UNDER "PLANTING", AT NO ADDITIONAL COST TO THE OWNER.
- 4. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE (AND IRRIGATION) MAINTENANCE, THE CONTRACTOR IS ENCOURAGED TO VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE-YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH. IT IS SUGGESTED SUCH SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

V. STABILIZED CRUSHED GRANITE

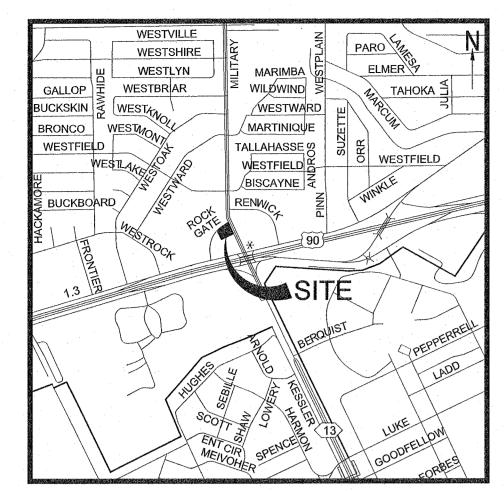
 STABILIZED CRUSHED GRANITE - EXCAVATE AREA ACCORDINGLY. CONSIDERING THE SUBBASE LAYER AND CRUSHED GRANITE LAYER, EXCAVATE SUBGRADE 4" TO 6" BELOW FINISH GRADE. USE A VIBRATORY PLATE COMPACTOR TO COMPACT NATIVE SUBGRADE IN 3-4 PASSES, OR AS NEEDED TO ACHIEVE 95% PROCTOR MIN. INSTALL 2"-4" OF 3/8" MINUS BASE MATERIAL AND COMPACT TO 95% PROCTOR MIN. APPLY LIGHT AMOUNT OF WATER IF MATERIAL IS DRY. INSTALL CRUSHED GRANITE MATERIAL AND GRADE CONSISTENTLY INTO PLACE. (DO NOT COMPACT UNTIL STABILIZER HAS BEEN APPLIED). GRADE TO APPROX. 3/4" ABOVE PLANNED FINISH GRADE TO ALLOW FOR COMPACTION. APPLY G3-CS LIQUID STABILIZER FOLLOWING MANUFACTURERS INSTRUCTIONS FOR APPLICATION RATES AND DRY TIMES. AFTER STABILIZER IS FULLY ABSORBED BUT SLIGHTLY DAMP, COMPACT TO 95% OR HIGHER USING A VIBRATORY PLATE COMPACTOR. HAND TAMP AREAS AS NEEDED. APPLY FIRST STABILIZER TOPCOAT 12-24 HRS. AFTER THE INITIAL APPLICATION OR ONCE THE SURFACE IF COMPLETELY DRY. APPLY A SECOND TOPCOAT 12-24 HRS. AFTER THE FIRST TOPCOAT OR ONCE THE SURFACE IS COMPLETELY DRY. ALLOW 24-72 HRS. TO FULLY CURE. STABILIZER SHALL BE G3-COMMERCIAL SURFACE MANUFACTURED BY TECHNISOIL. THIS APPLICATION DOES NOT APPLY WHERE SHRUBS AND TREES ARE TO BE PLANTED.

REVISIONS:



ates PLANNING 257, SAN ANT

4/21/2022 DATE: JOB NO: DRAWN BY: JL & BL SHEET NUMBER:



LOCATION MAP

SCALE: NTS

PIPE SIZING RE	QUIREN	IENTS: (Based o	n Class 200 l	PVC laterals
except 1/2" latera	als to be	Class 315 PVC)		
0.1 gpm	to	4.0 gpm	1/2"	(Class 315)
4.1 gpm	to	8.0 gpm	3/4"	
8.1 gpm	to	13.0 gpm	1"	
13.1 gpm	to	23.0 gpm	1-1/4"	
23.1 gpm	to	32.0 gpm	1-1/2"	
32.1 gpm	to	53.0 gpm	2"	
53.1 gpm	to	74.0 gpm	2- 1/2"	

NOTE: SIZE LATERAL PIPE SUCH THAT NO TWO SPRAY HEADS WITHIN THE SAME ZONE MAY VARY BY MORE THAN 10% IN PSI. RULE-OF-THUMB PIPE SIZING IS NOT ACCEPTABLE NOR PERMITTED IN RUNS LONGER THAN 100'.

CRITICAL ANALYSIS

Generated:	2022-04-19 7:13
P.O.C. NUMBER: 01 Water Source Information:	EXISTING IRRIGATION METER
FLOW AVAILABLE Water Meter Size: Flow Available	" 8.2 GPM
PRESSURE AVAILABLE Static Pressure at POC: Elevation Change: Service Line Size: Length of Service Line: Pressure Available:	71.00 PSI 5.00 ft I" 20 ft 67.00 psi
DESIGN ANALYSIS Maximum Station Flow: Flow Available at POC: Residual Flow Available:	17.62 GPM 18.2 GPM 0.58 GPM
Critical Station: Design Pressure: Friction Loss: Fittings Loss: Elevation Loss: Loss through Valve: Pressure Req. at Critical Station: Loss for Fittings:	2 30 PSI 1.73 PSI 0.17 PSI 0 PSI 7.65 PSI 39.54 PSI 0.01 PSI 0.06 PSI
Loss for Main Line: Loss for POC to Valve Elevation: Loss for Backflow: Loss for Master Valve: Loss for Water Meter: Critical Station Pressure at POC: Pressure Available: Residual Pressure Available:	0.06 FSI 0 PSI 5.21 PSI 2.56 PSI 0.26 PSI 47.64 PSI 67 PSI 19.36 PSI

APRIL 2022

CITY OF SAN ANTONIO DEVELOPMENT SERVICES

1901 S. ALAMO

P.O. BOX 839966 5AN ANTONIO, TX 78283

RE: KFC - 6807 MILITARY

TO WHOM IT MAY CONCERN: I, JASON S. LOCHTE, A LICENSED IRRIGATOR IN THE STATE OF TEXAS DO CERTIFY THAT THE IRRIGATION PLAN SUBMITTED CONFORMS TO THE IRRIGATION DESIGN AND EQUIPMENT STANDARDS SET OUT IN 35-510 (J) AND 35-511(C)(6) OF THE CITY OF SAN ANTONIO UNIFIED DEVELOPMENT CODE AND ALSO COMPLIES WITH THE REQUIREMENTS OF CHAPTER 344 §§ 344.60, 344.61, \$ 344.62 OF THE TEXAS ADMINISTRATIVE CODE. IF FURTHER INFORMATION IS NEEDED, PLEASE FEEL FREE TO CONTACT ME AT (210) 821-6570.

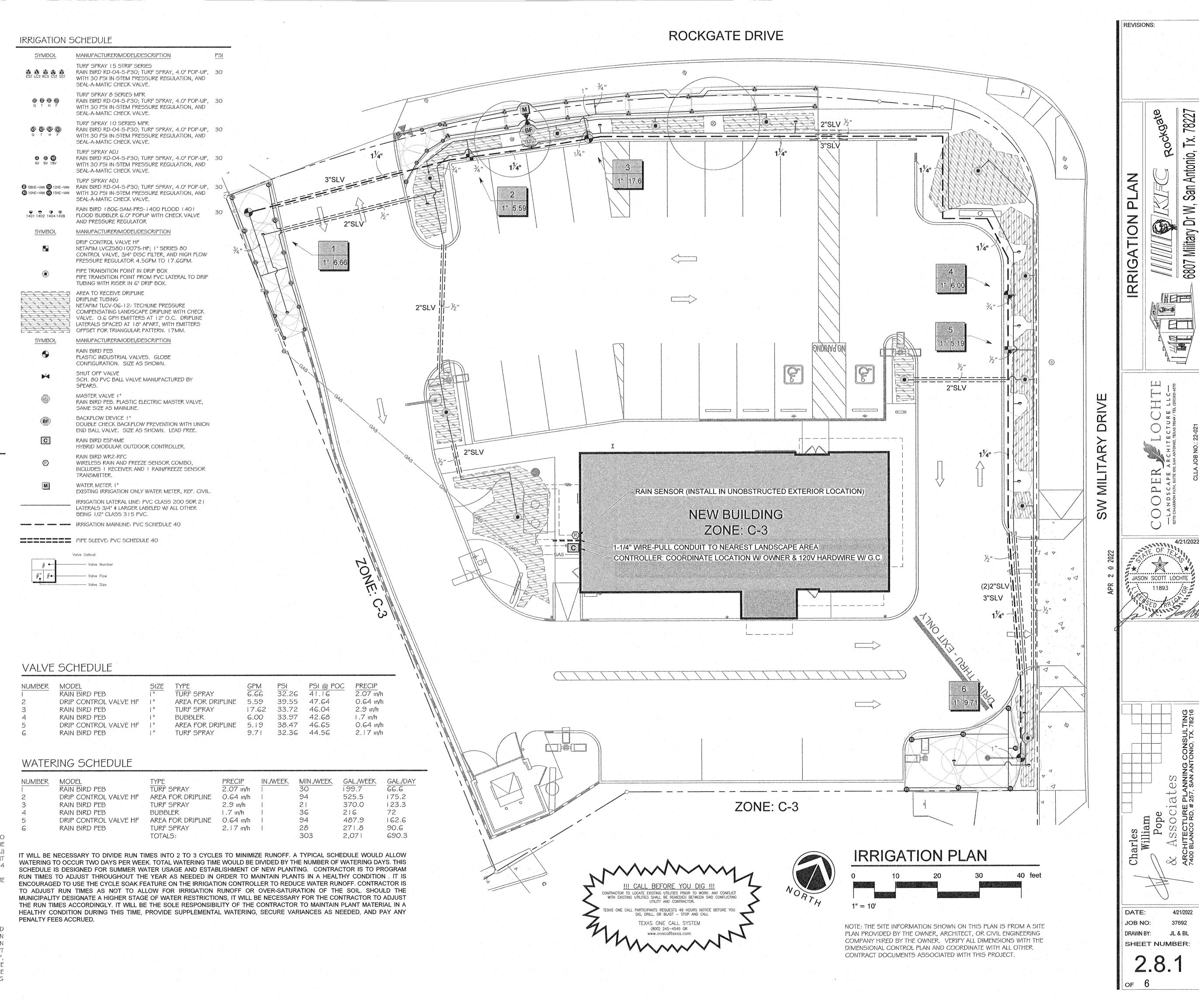
JASON S. LOCHTE

SINCERELY,

TEXAS LICENSED IRRIGATOR NO. 11893

A LETTER FROM A LICENSED IRRIGATOR (INSTALLER) SHALL BE REQUIRED CERTIFYING THAT THE IRRIGATION SYSTEM WAS INSTALLED IN ACCORDANCE WITH THE CERTIFIED LANDSCAPE PLAN. THE IRRIGATION LETTER REQUIRED FOR THE CERTIFICATE OF OCCUPANCY CAN BE LEFT WITH THE TEST AND MEASURE (T#M) REPORT IN A WEATHERPROOF, WATER TIGHT BAG WHICH WILL BE COLLECTED UPON REQUEST BY THE PLUMBING INSPECTOR. THE LETTER MAY ALSO BE SUBMITTED AT THE DEPARTMENT OF DEVELOPMENT SERVICES BUILDING WHEN APPLYING

FOR THE CERTIFICATE OF OCCUPANCY FOR NEW CONSTRUCTION.



IRRIGATION NOTES

1. POINT OF CONNECTION - CONNECT DOWNSTREAM FROM AN IRRIGATION ONLY WATER METER. REFERENCE CIVIL DRAWINGS FOR LOCATION.

2. STATIC PRESSURE - CONFIRM STATIC WATER PRESSURE OF 71 PSI AT LEAST SEVEN DAYS BEFORE BEGINNING WORK. IF STATIC PRESSURE IS LESS THAN STATED ABOVE, NOTIFY LANDSCAPE ARCHITECT IN WRITING AT LEAST SEVEN DAYS PRIOR TO COMMENCING WITH WORK. IF STATIC PRESSURE EXCEEDS 80 PSI, INSTALL A PRESSURE REDUCING DEVICE UPSTREAM FROM BACKFLOW DEVICE AT NO ADDITIONAL COST TO THE OWNER.

3. SYSTEM LAYOUT - COORDINATE IRRIGATION LAYOUT WITH PLANTING PLAN AND SITE CONDITIONS TO PROVIDE COMPLETE COVERAGE WITH NO OVERSPRAY. THE IRRIGATION CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO ENSURE PROPER COVERAGE AT NO ADDITIONAL COST TO THE OWNER. PRIOR TO SUBMISSION OF THE BID CONTRACTOR SHALL SATISFY HIMSELF AS TO THE CONDITIONS THEREOF.

4. CONTRACTOR QUALIFICATIONS - INSTALLATION OF THE IRRIGATION SYSTEM SHALL BE UNDER THE ONSITE SUPERVISION OF A SUPERINTENDENT CURRENTLY LICENSED AS A LANDSCAPE IRRIGATOR IN THE STATE OF TEXAS.

5. GUARANTEE - GUARANTEE THE UNDERGROUND SPRINKLER SYSTEM AGAINST DEFECTS IN THE MATERIALS AND WORKMANSHIP FOR ONE YEAR AFTER FINAL ACCEPTANCE.

6. EXISTING UTILITIES - CONTRACTOR IS TO CONTACT APPROPRIATE AUTHORITIES FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION.

7. CODES AND PERMITS - CONTRACTOR TO COMPLY WITH REQUIREMENTS OF THE INTERNATIONAL PLUMBING CODE AND ALL OTHER APPLICABLE CODES AS THEY SHALL PREVAIL OVER ANY DISCREPANCIES HEREIN. IRRIGATION CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS, WATERING VARIANCES, AND PAY ALL ASSOCIATED FEES & PENALTIES UNLESS OTHERWISE DIRECTED. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH MUNICIPAL DROUGHT/WATERING RESTRICTIONS.

8. TRENCHING - PROTECT EXISTING PLANT MATERIAL. ROUTE EXCAVATION TRENCHES TO AVOID DAMAGE TO EXISTING TREES. COORDINATE CONFIGURATION OF PLANTING BEDS WITH LANDSCAPE CONTRACTOR TO ENSURE PROPER LOCATION OF TURF AND SHRUB IRRIGATION HEADS. STAKE ALL SPRINKLER HEAD LOCATIONS AND TRENCH TO A MINIMUM WIDTH OF 4" AND PROVIDE 16" OF COVER FOR MAIN SUPPLY LINE AND 10" OF COVER OVER ALL LATERALS AND WIRING.

9. PIPING - ALL PIPING IS TO BE SIZED FOR A MAXIMUM WATER VELOCITY OF 5 FEET PER SECOND. SIZE LATERAL PIPE SUCH THAT NO TWO SPRAY HEADS WITHIN THE SAME ZONE MAY VARY BY MORE THAN 10% IN PSI, RULE-OF-THUMB PIPE SIZING IS NOT ACCEPTABLE NOR PERMITTED IN RUNS LONGER THAN 100', LAY PIPE ON A 2" SAND CUSHION SUBBASE, UNIFORMLY SLOPED WITHOUT HUMPS AND DEPRESSIONS. KEEP PIPE INTERIOR CLEAN AT ALL TIMES.

10. BACKFLOW PREVENTER - INSTALL BACKFLOW PREVENTER AS PER CITY CODES AND STANDARDS. INSTALL 17" X 30" PLASTIC ACCESS BOX FLUSH WITH GRADE AND BACKFILL WITH 3" OF GRAVEL IN BOTTOM OF BOX. PROVIDE WYE STRAINER AND SHUT-OFF VALVE UPSTREAM OF BACKFLOW DEVICE.

11. VALVES - CLEAN AND TEST PRIOR TO INSTALLATION. INSTALL PLUMB AND STRAIGHT. INSTALL SAME SIZE BALL VALVE PRECEDING EACH VALVE. SET PLASTIC VALVE BOX FLUSH WITH GRADE ON MASONRY BRICKS WITH 3" GRAVEL SUMP AND STABILIZE WITH COMPACTED SOIL. USE 11" X 16" PLASTIC ACCESS VALVE BOXES FOR ELECTRIC VALVES AND QUICK COUPLING VALVES UNLESS OTHERWISE NOTED.

12. BACKFILL - USE BACKFILL FREE FROM ROCKS AND OTHER UNSUITABLE MATERIALS WHICH COULD DAMAGE PIPE OR CREATE SETTLING PROBLEMS. APPLY BACKFILL MATERIAL IN 6" LAYERS AND TAMP EACH LAYER TO PREVENT SETTLING. USE TOPSOIL (NOT SUBSOIL) WITHIN THE TOP 6" OF BACKFILL. ACHIEVE FINISH GRADE AND REPAIR ALL DAMAGED EXISTING TURF AND PLANTINGS. REMOVE EXCESS EXCAVATION AND BACKFILL MATERIAL FROM THE SITE IMMEDIATELY. PROVIDE A 2" SAND CUSHION BELOW AND ABOVE ALL PIPE.

13. SPRINKLER HEADS - FLUSH LATERAL LINES WITH FULL HEAD OF WATER AND INSTALL HEADS. LOCATE SPRINKLER HEADS TO MAINTAIN A DISTANCE OF 6" FROM WALLS AND 4" FROM OTHER BOUNDARIES. HEADS TO BE INSTALLED WITH IPS FLEX PIPE OR SCH. 80 SWING JOINTS. USE IN-HEAD CHECK VALVES TO ELIMINATE LOW HEAD DRAINAGE. AT LOCATIONS OF EXCESSIVE LOW HEAD DRAINAGE, INSTALL HUNTER HCV CHECK VALVES BETWEEN HEAD AND SWING-JOINT. NO OVERSPRAY WILL BE ALLOWED ONTO IMPERVIOUS SURFACES SUCH AS DRIVES, WALKS, BUILDINGS, ROADS, ETC.

14. WIRING - 14 AWG RATED FOR DIRECT BURIAL. LAY WIRING BESIDE PIPE IN TRENCHES. PROVIDE A MINIMUM COVERING OF 12" FOR WIRING LAID IN SEPARATE TRENCHES. WIRE SPLICES SHALL BE ENCASED IN A WATERPROOF COMPOUND OR GEL. BUNDLE AND TAPE MULTIPLE WIRES AT A MAXIMUM OF 10 FOOT INTERVALS. PROVIDE A 30" EXPANSION LOOP AT EACH ELECTRIC REMOTE CONTROL VALVE AND AT EVERY 100' INTERVAL. ALL FIELD SPLICES SHALL BE LOCATED IN A 10" ROUND VALVE BOX TO ALLOW

15. AUTOMATIC CONTROLLER - PROVIDE 120 VOLT ELECTRICAL CURRENT TO THE CONTROLLER IN CONDUIT IN ACCORDANCE WITH LOCAL, STATE, AND NATIONAL CODES.

16. CLEAN-UP - KEEP THE PREMISES AND PUBLIC STREETS FREE FROM ACCUMULATION OF WASTE MATERIAL. AT THE COMPLETION OF THE WORK REMOVE ALL WASTE, EXCESS MATERIAL, RUBBISH AND EQUIPMENT. LEAVE THE SITE CLEAN.

17. FINAL ACCEPTANCE - PERFORM OPERATIONAL TEST WITH THE OWNER PRESENT AFTER SYSTEM IS COMPLETE AND IRRIGATION HEADS ADJUSTED TO FINAL POSITION. DEMONSTRATE TO OWNER THAT ENTIRE SYSTEM MEETS COVERAGE REQUIREMENTS AND FUNCTIONS PROPERLY. PROVIDE THE OWNER WITH COMPLETE WRITTEN INSTRUCTIONS FOR PROPER OPERATION AND MAINTENANCE OF THE SPRINKLER SYSTEM.

18. UNSLEEVED PIPES AND VALVES MAY BE SHOWN UNDER PAVEMENT FOR GRAPHIC CLARITY ONLY. INSTALL THESE PIPES IN ADJACENT LANDSCAPE AREAS.

19. AS BUILTS - PROVIDE OWNER WITH A COMPLETE SET OF AS-BUILTS DRAWINGS AT FINAL ACCEPTANCE

20. SENSORS - INSTALL FREEZE AND RAIN SHUT-OFF SENSORS IN ELEVATED AND EXPOSED EXTERIOR LOCATIONS CLEAR OF TREES AND OTHER OBSTRUCTIONS.

21. IRRIGATION COVERAGE STATEMENT -100% IRRIGATION COVERAGE HAS NOT BEEN PROVIDED FOR. REFERENCE IRRIGATION PLAN FOR AREAS OF COVERAGE

22. IRRIGATION EQUIPMENT - IRRIGATION COMPONENTS SHALL BE AS SPECIFIED OR APPROVED EQUAL MANUFACTURED BY HUNTER, RAIN BIRD, TORO, IRRITROL, OR WEATHERMATIC.

DRIP IRRIGATION NOTES

LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO PROVIDE DISTRIBUTION TUBING, STAKES, EMITTERS, TRANSFER FITTINGS, DIFFUSER BUG CAP, CONTROL ZONE KITS, ETC. NECESSARY FOR PROPER INSTALLATION OF THE BEDS. ALL PVC HEADER AND FOOTER PIPING TO BE SIZED PER THE CHART BELOW.

- LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO INSERT ALL COMPRESSION FITTING 1-3/8" PER MANUFACTURER'S RECOMMENDATIONS. FITTINGS AND DRIP LINE TUBING TO BE OF THE SAME MANUFACTURER.
- 2. ALL DRIP LINE AND DISTRIBUTION TUBING TO BE INSTALLED 4"-6" BELOW GRADE AT SOD AREAS AND 2"-4" BELOW SOIL AT MULCH AREAS. ALL DRIP LINE TO BE INSTALLED ON ONE FOOT ROW SPACING UNLESS OTHERWISE NOTED. TUBING TO BE STAKED WITH GALVANIZED TIE DOWN STAKES INSTALL STAKES AT 3'-0" ON CENTER ALONG LENGTH OF TUBING AND A MINIMUM OF 36" FROM ANY FITTING.
- AIR RELIEF VALVE TO BE RAIN BIRD AR VALVE KIT INSTALLED IN 6" ROUND VALVE BOX AND GRAVEL SUMP. INSTALL AT HIGHEST POINT WITHIN ZONE.
- 4. FLUSH VALVES TO BE RAIN BIRD EASY FIT FLUSH CAPS INSTALLED IN A 6" ROUND VALVE BOX AND GRAVEL SUMP. INSTALL AT LOWEST POINT WITHIN ZONE.
- 5. INSTALL DRIP LINE TUBING ON TWO SIDES OF EACH PLANT MINIMUM. INSTALL DRIP LINE ON TOP OF FILTER FABRIC.
- 6. DRIP IRRIGATION EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
- DRIP LINE SHALL BE BURIED 3" TO 5" BELOW FINISHED SOIL GRADE IN PLANTING BEDS AFTER PLANTING AND BEFORE MULCH, AND 4" TO 6" BELOW FINISHED GRADE IN
- STAGER EMITTER SPACING IN PARALLEL ROWS TO CREATE TRIANGULAR WETTING PATTERN.
- 9. ALL DRIP LINE SHALL BE SECURED USING SOIL STAPLES AS SUPPLIED BY THE MANUFACTURER SPACED A MAXIMUM OF 3 FT ON CENTER.
- 10. DRIP LATERALS SHOWN ON THE PLANS ARE USED TO INDICATE ZONING SIZES AND RELATIONSHIPS.
- 11. NETAFIM HCVXR SERIES DRIP LINE SHALL BE USED AS FOLLOWS:
- BED AREAS: TLCV 06-12, ROWS SPACED AT 18 INCHES.
- B. BED AREAS WITH SLOPE 3:1 OR MORE: TLCV 06-12
- 13. WHEN CONFLICTS OCCUR BETWEEN THESE DRAWINGS AND THE MANUFACTURER'S SPECIFICATIONS DEFER TO THE MANUFACTURER'S RECOMMENDED SPECIFICATIONS.
- 14. EACH DRIP ZONE SHALL HAVE A DRIP SYSTEM OPERATION INDICATOR, AS MANUFACTURED BY NETAFIM. INSTALL PER NETAFIM RECOMMENDATIONS.

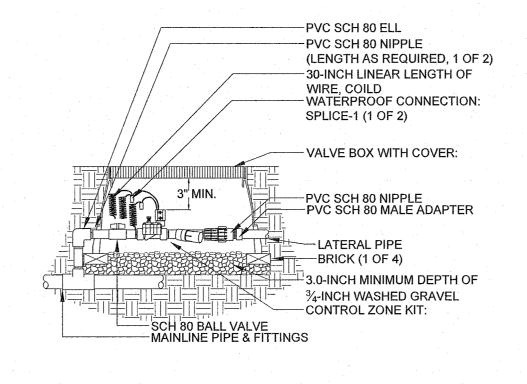
PROPER SIZING OF SUPPLY AND EXHAUST HEADERS (17MM TLCV SERIES DRIP LINE)

22.1 TO 31 GPM

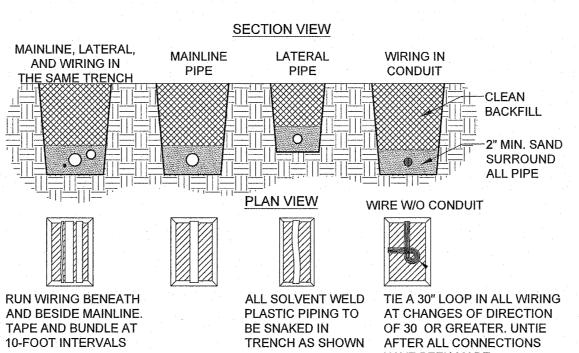
TOTAL ZONE FLOW 1/2" SCH 40 PVC OR 1/2" CLASS 315 PVC UP TO 5 GPM 3/4" CLASS 200 PVC 5.1 TO 8 GPM 8.1 TO 13 GPM 1" CLASS 200 PVC 13.1 TO 22 GPM 1 1/4" CLASS 200 PVC

NOTE: A 45 PSI PRESSURE REGULATOR IS RECOMMENDED TO OBTAIN MAXIMUM RUN LENGTHS AND MAXIMIZE ZONE SIZE WHEN INSTALLING TLCV SERIES DRIP LINE.

1 1/2" CLASS 200 PVC

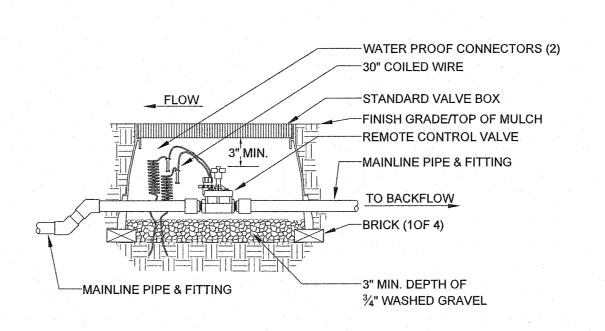


DRIP CONTROL ZONE KIT

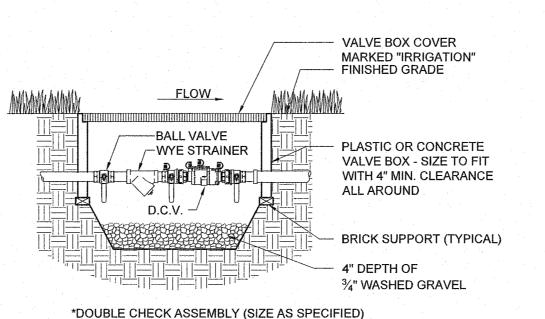


HAVE BEEN MADE (1) SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH SCH. 40 PVC. (2) FOR PIPE AND WIRE BURIAL DEPTHS SEE SPECIFICATIONS. (3) INSTALL 2" SAND BEDDING IN TRENCHES PRIOR TO PIPE INSTALLATION. (4) PROVIDE 2" SAND ENVELOPE AROUND ALL PIPE; 2" SAND COVER MIN. (5) STACKING OF PIPE IS NOT ALLOWED, ALL PIPE TO HAVE 2" OF SEPARATION. (6) NO MATERIAL LARGER THAN 1" TO BE USED AS TRENCH BACKFILL. (7) COMPACT TRENCH BACKFILL TO 80%-85% PROCTOR. 95% UNDER HARDSCAPE.

TRENCH DETAIL



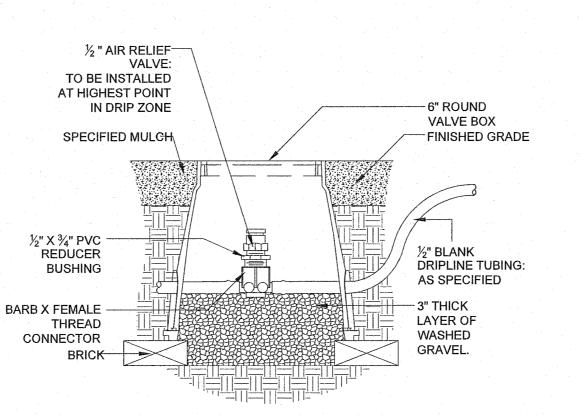
MASTER VALVE



BACKFLOW PREVENTER

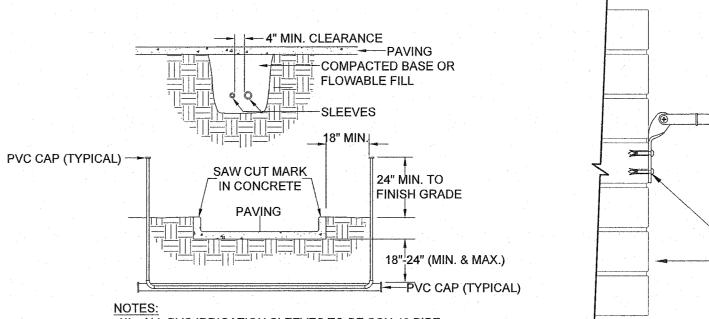
N.T.S.

N.T.S.



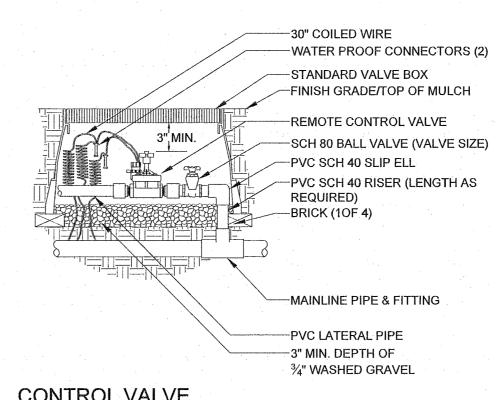
DRIP AIR RELIEF VALVE IN BOX (INSERT)

DETAIL-FILE



(1) ALL PVC IRRIGATION SLEEVES TO BE SCH 40 PIPE. (2) ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT. (3) WHERE THERE IS MORE THAN ONE SLEEVE, EXTEND THE SMALLER SLEEVE TO 24" MIN. ABOVE FINISH GRADE. (4) MECHANICALLY TAMP TO 95% PROCTOR.

SLEEVING



CONTROL VALVE

PVC LATERAL PIPE

FLUSH VALVE-

RELIEF VALVE

CONTROL VALVE

DRIP IRRIGATION SYSTEM LAYOUT

EMITTER

-AIR/VACUUM

POP-UP SPRAY HEAD

PVC HEADER

FILTER -

WATER-

N.T.S.

SOURCE

N.T.S.

FINISHED GRADE/

POP-UP SPRAY SPRINKLER:

½" PVC 90, SOCKET X MIP

½" FLEX PVC, 12-INCH MIN.

½" PVC 90, SOCKET X MIP

DRIP LINE

PRESSURE REGULATOR

TEE--- ELBOW-

INSTALL IN EACH ISLAND

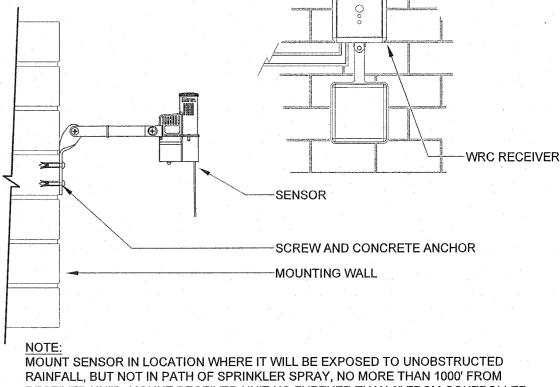
OR IN SEPARATE AREA.

- PVC FOOTER

PVC SCH 40 TEE OR ELL

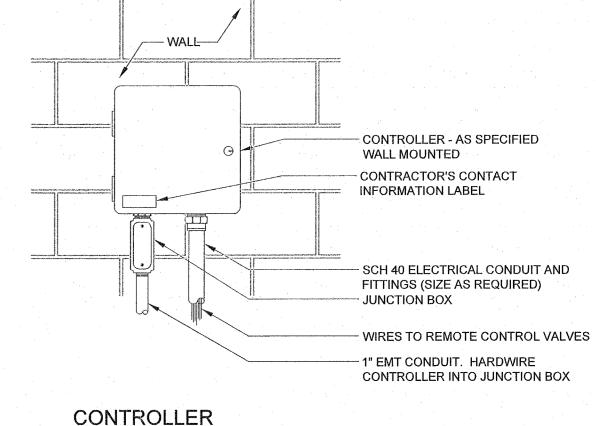
W/ SPECIFIED NOZZLE

TOP OF MULCH



RECEIVER UNIT . MOUNT RECEIVER UNIT NO FURTHER THAN 6" FROM CONTROLLER.

WIRELESS RAIN/FREEZE SENSOR

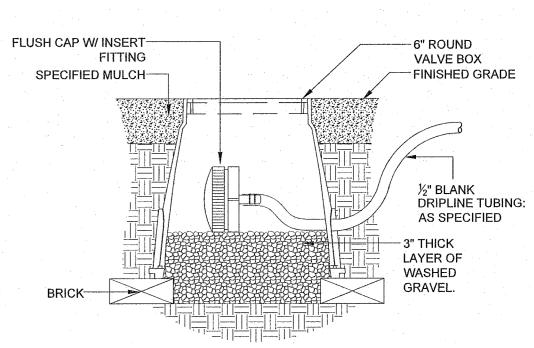


INSTALL FLUSH W/ NEW GRADE (COVER WITH MULCH) SOIL TREE WELL +/- 6" HEIGHT POP-UP SPRAY SPRINKLER: W/ SPECIFIED **BUBBLER NOZZLE** 1/2" PVC 90, SOCKET X MIP 1/2" FLEX PVC, 12" MIN. -PVC SCH 40 TEE OR ELL PVC LATERAL PIPE ROOT BALL

½" PVC 90, SOCKET

TREE BUBBLER

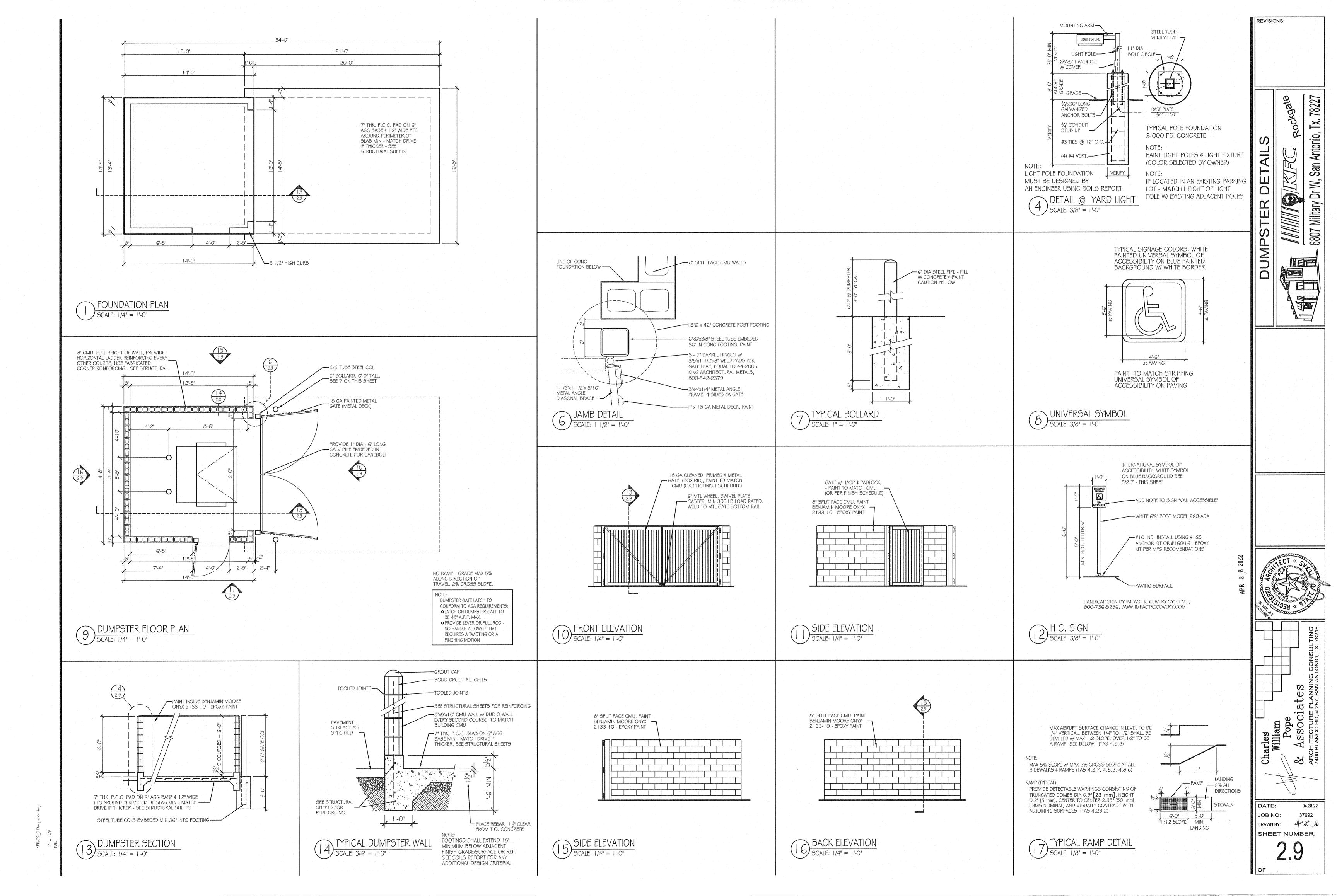
N.T.S.

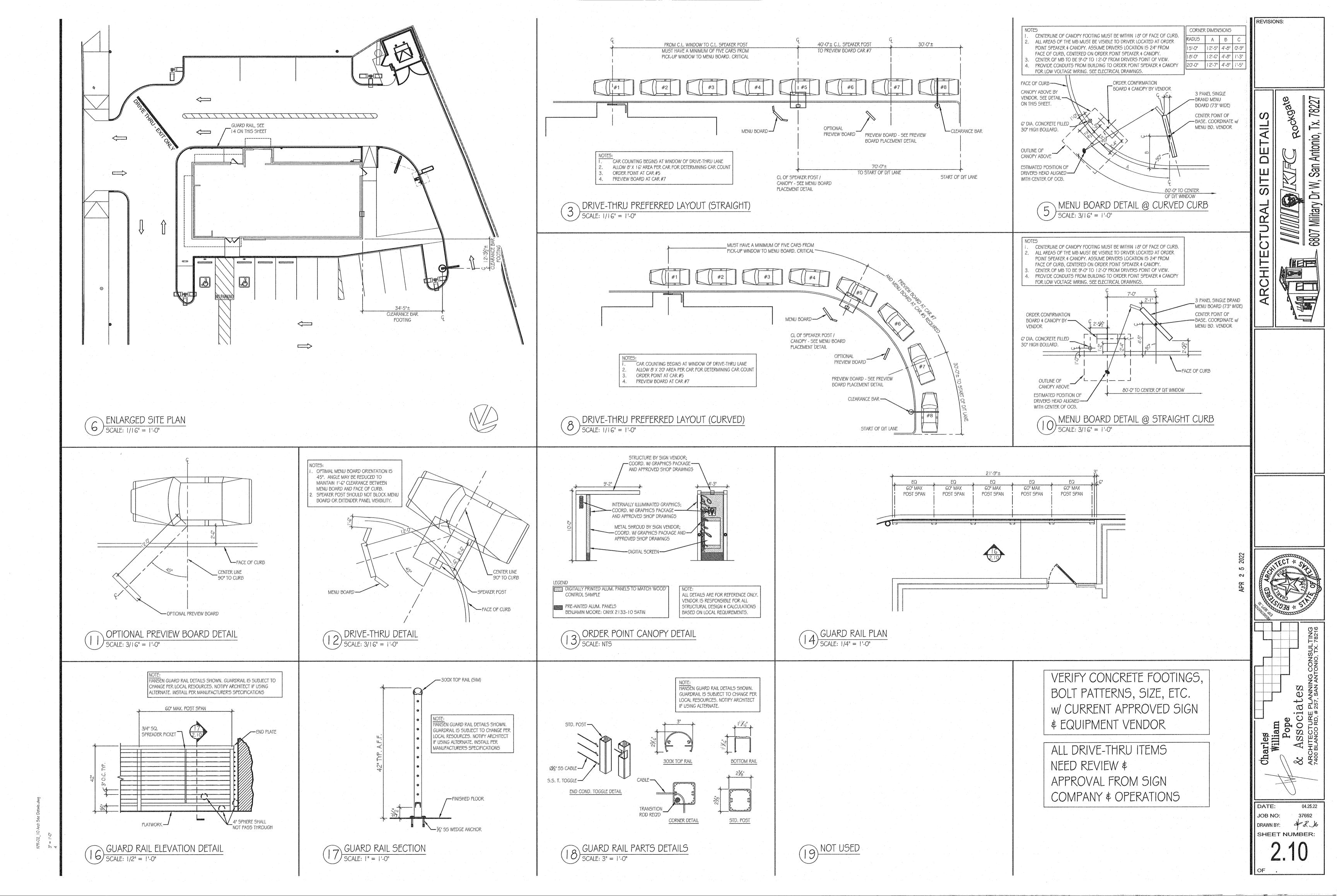


DRIP FLUSH VALVE

<u>a</u> JASON SCOTT LOCHTE IAtes EPLANNING CONSULT # 257, SAN ANTONIO, TX. 7 DATE: 4/21/2022 JOB NO: 37692 DRAWN BY: JL & BL SHEET NUMBER:

REVISIONS:





<u>DIMENSIONS:</u>
A. ALL DIMENSIONS ARE FROM INSIDE FACE OF CURB TO FACE OF STUD. REFER TO FOUNDATION PLAN FOR FACE OF CURB DIMENSIONS. SEE KEYNOTE 1, THIS SHEET. B. DIMENSIONS NOTED AS "CLEAR" OR "HOLD" ARE MIN. REQ'D. NET CLEARANCE FROM FACE OF WALL FINISH. C. VERIFY FINAL EQUIPMENT SIZES W/ VENDOR PRIOR TO INT. WALL FRAMING. 3 PIPE BOLLARD. REFER TO SITE DRAWINGS. RE: CIVIL WINDOWS / DOORS:
A. SEE SHEET 5.1 FOR WINDOW TYPES AND DOOR SCHEDULE.
B. ALL DOOR AND WINDOW OPENING DIMENSIONS ARE TO ROUGH OPENING. FINISH SUBSTRATES:
A. PROVIDE 5/8" THICK CEMENTITIOUS BD. FROM FLOOR SLAB TO 24" A.F.F. MIN. IN LIEU OF GYP. BD. AT ALL WALLS EXCEPT SHEARWALL SURFACES, U.N.O. B. ALL JOINTS, GAPS OR SPACES LEADING TO ALL HOLLOW OR INACCESSIBLE SPACES SHALL BE SEALED WITH "NSF INTERNATIONAL" APPROVED SEALANTS. 6 CO2 FILL BOX LOCATION. COORDINATE w/ SUPPLIER C. ALL BACK OF HOUSE AND OFFICE WALLS SHALL HAVE 5/8" CDX PLYWOOD SUBSTRATE, U.O.N. D. PROVIDE SOLID BLOCKING FOR WALL SUPPORTED ITEMS. 7 METAL THRESHOLD. TEXTURE PLUS FAUX BRICK WALL PANELS (REFER TO INTERIOR ELEVATIONS)

DECOR:
A. SEE 10.1 FOR SEATING PLAN AND DETAILS. B. SEE 5.2 FOR FLOOR FINISH PLAN.
C. SEE 3.4, 11.1, 11.2, 11.3 FOR WALL INTERIOR ELEVATIONS. D. SEE 3.2 FOR CEILING PLAN.

GENERAL:

A. PROVIDE THREE FIRE EXTINGUISHERS - (2) 10 lb. BC and (1) 10 lb. ABC - TO COMPLY WITH LOCAL FIRE CODE.

LOCATE PER DIRECTION OF FIRE MARSHALL OR LOCAL AUTHORIZING AGENT.

LOCATE PER DIRECTION OF FIRE MARSHALL OR LOCAL AUTHORIZING AGENT. B. DRAWINGS ARE BASED UPON WOOD FRAMING. UTILIZATION OF METAL STUDS ON NON-BEARING INTERIOR PARTITIONS, BULKHEADS AND SOFFITS IS ACCEPTABLE. C. COORDINATE FRAMING ABOVE CEILING WITH HVAC DUCT WORK. D. SEE SHEET 3.4 FOR ENLARGED RESTROOM PLAN.

1 STARTING POINT: ALL SUB-TRADES SHALL USE THIS POINT OF (11) 8" x 12" HORIZONTAL OPENING FOR SYRUP TUBES. ORIGIN FOR LAY-OUT COORDINATE WALL OPENING with DRINK STATION EQUIPMENT SUPPLIER. SEE 9/4.6 2) 20 GA. S.S. PANEL BEHIND HOOD. RE: MECHANICAL

9 ELECTRICAL MODULAR SWITCH BOARD MDP, A, B, AND C; REFER TO ELECTRICAL DRAWINGS.

SYRUP / FILTERED WATER TUBE BUNDLES IN CHASE WALL (DINING) AND SS WALL-MOUNTED CHASE (DRIVE-THRU).

PROVIDE HORIZONTAL DOOR SWEEPS AT ALL EXTERIOR DOORS. SEE SHEET 5.1.1

HOOD WALL, SEE WALL LEGEND. COORDINATE WITH HOOD LOCATION; RE: MECHANICAL. REFER TO COOK LINE ELEVATION, SHEET 11.2 and MECHANICAL HOOD DETAILS.

COORDINATE WALL CLEARANCE WITH MOP SINK DIMENSIONS; SEE SHEET 10.1. REFER TO EQUIPME SHEETS FROM SUPPLIER DIMENSIONS; SEE SHEET 10.1. REFER TO EQUIPMENT CUT SHEETS FROM SUPPLIER

5 ELECTRICAL CT CABINET AND METER. REFER TO ELECTRICAL 14 GAS METER. RE: PLUMBING & CIVIL FOR EXACT LOCATION. DRAWINGS. (15) COOLER PANELS (MAINTAIN 2" AIR GAP BETWEEN PANELS

> 16 FURR OUT WALL BEHIND SEATING W/ 2X2 FURRING @ 16" O.C. SHEATH AS SCHEDULED. GC-BUILT LOW WALL 3'-8" FINISH HT. WITH WALL CAP AND SUPPORT COLUMN BOLTED INTO SLAB: CLARK DIETRICH LGPW-36 OR EQUAL AT NON-SUPPORTED END(S) . SEE INTERIOR ELEVATIONS FOR FINISH INFORMATION.

18) LOW WALL BENEATH SERVING COUNTER. SEE INTERIOR ELEVATIONS FOR FINISH INFORMATION.

19 METAL POST DIVIDERS TO CEILING, SEE SHEET 10.1

20 CONFIRM AND COORDINATE DIMENSIONS WITH VENDOR.

Tag Location Size Type Height Interior Exterior Reference 4C Int. 3 1/2" Wood 6" Above Clg Gyp. X Kit & Toilet: 5/8" Durock to 24" a.f.f. w/gyp Above CDX Plywood where shelving is to hung on wall 6C Int. 5 1/2" Wood 6" Above Clg Gyp. - X Kit & Toilet: 5/8" Durock to 24" a.f.f. w/gyp Above 6F Ext./Int. 5 1/2" Wood Full Gyp. See Ext. Elevs X Kit & Toilet: 5/8" Durock to 24" a.f.f. w/gyp Above 6M Int. 6" Metal Full Gyp. - X 6" 18 GA. metal studs @ 16" O.C. w/ 18 GA. top ar C Int. 4" Cooler - - - Walk-in Cooler - Maintain 2" min clearance @ all wa MR Board (WP Wallboard) @ Wet Walls MR Board (WP Wallboard) @ Wet Walls X 6" 18 GA. metal studs @ 16" O.C. w/ 18 GA. top and bottom track. Kit & Toilet: 5/8" Durock to 24" a.f.f. w/gyp Above Walk-in Cooler - Maintain 2" min clearance @ all walls 1) See Sheet 5.1.1 & 5.1.2 for Room Finish Schedule & Notes 4) See Sheet 3.3.1 & 3.3.2 for Exterior Finishes ') Gyp Bd. to be 5/8" type "X" - typical 5) RR, Warewash & Mech Faces - 5/8" water resistant gyp bd 2) All Studs to be 16" o.c. - typical 8) CDX Plywd to be 5/8" - typical 3) Provide Sound Batt Insul @ Exterior Walls, Toilet Rooms & Office 6) See Sheets 3.4, 11.1, 11.2 & 11.3 for Interior Finishes 9) Provide fireblocking in walls as required per code.

- TWO LAYERS OF TYVEK COMMERCIAL

ONE LAYER OF TYVEK OVER

CONTINUOUS INSULATION

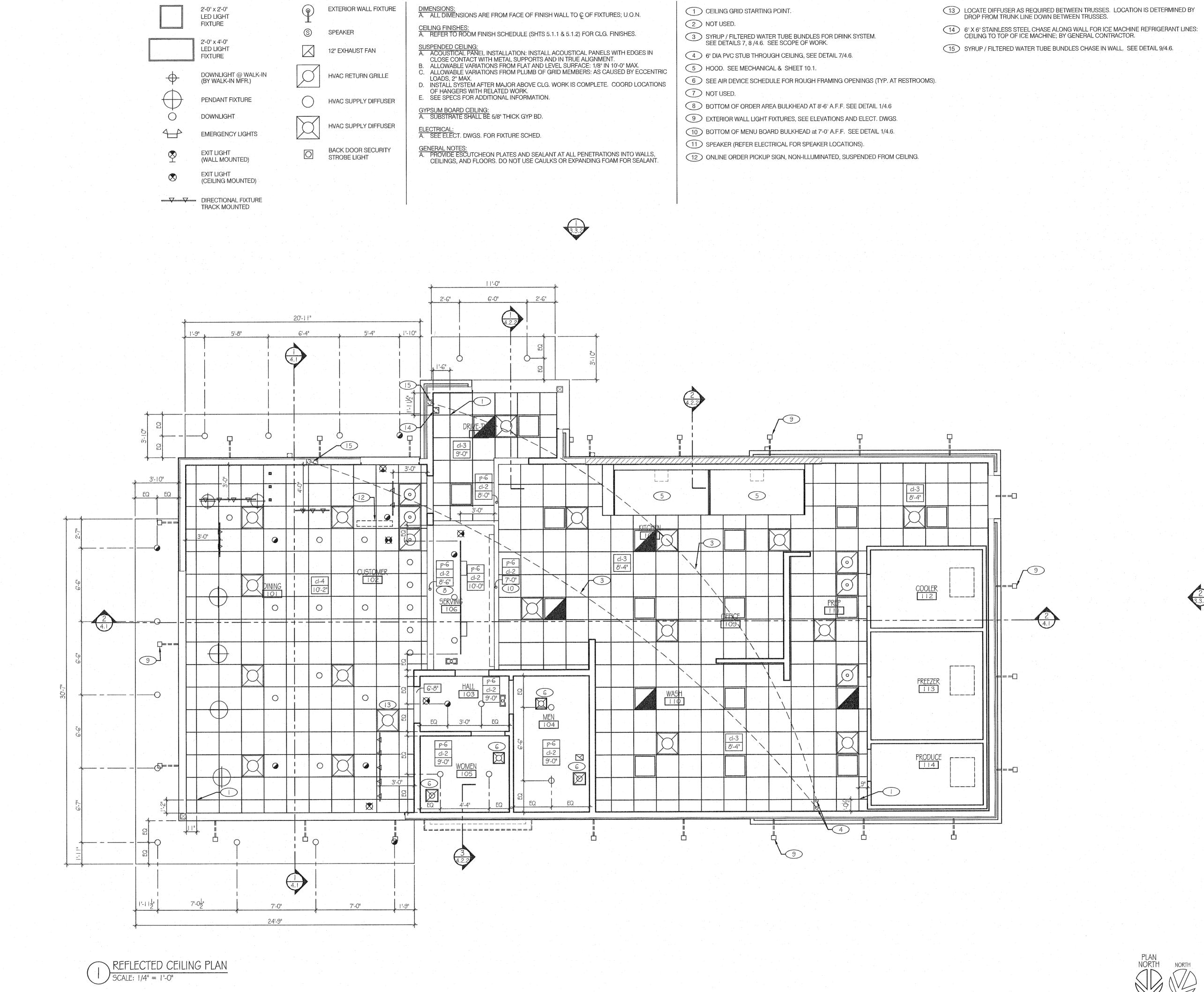
Hoodwall Note: See sheet 4.0 for insulation notes ATTACH WOOD PLATE TO FOUNDATION THEN 18 GA. PIYWO DENOTES PLYWOOD SHEATHING BOTTOM TRACK. INSTALL STUDS @ 16" O.C. w/ 18 GA. TOP TRACK. PLACE 2 - 2X6 WOOD TOP PLATE ON TOP. ENSURE BOTTOM PLATE IS ANCHORED DOWN TO FOUNDATION w/ **Underlayment Note:** 5/8" EXPANSION ANCHOR BOLTS PER SCHEDULE

WRAP @ PERIMETER WALLS. ONE LAYER EXTERIOR WALL WITH 20 GA. S.S. PANEL BEHIND HOOD. OF TYVEK OVER EXTERIOR SHEATHING & EXTEND MIN. 18" BEYOND END OF HOOD. REFER TO MECHANICAL FOR EXTENT OF S.S. PANEL.

San Antonio, Tx. 78227

SHEET NUMBER:

38'-4" 6'-5/2" 6'-9" 21'-0" METAL STUDS 15'-3/2" 5'-3" 18'-0" HOOD 22'-4" The same state that were the same that some state same state that same state that same state that same state state state same state $\langle 2 \rangle$ 5'-8/2" 7-10 10'-7/2" 13'-1/4" 81-3/2" 7'-31/2" JOB NO: PLAN NORTH 14'-23/4" 6-4/4" DRAWN BY:

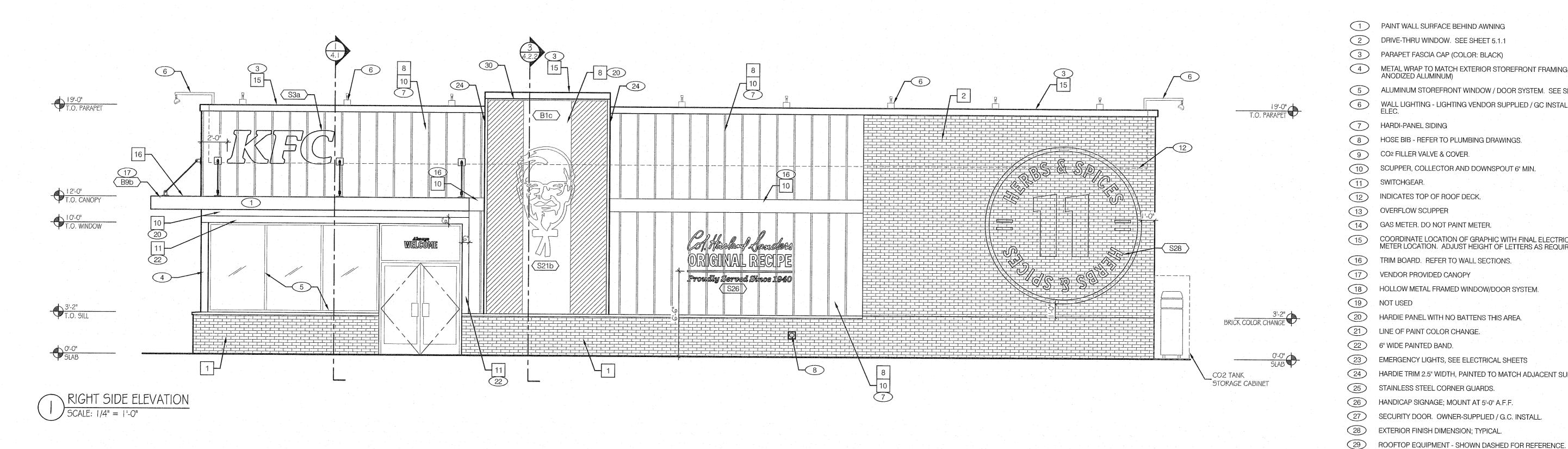


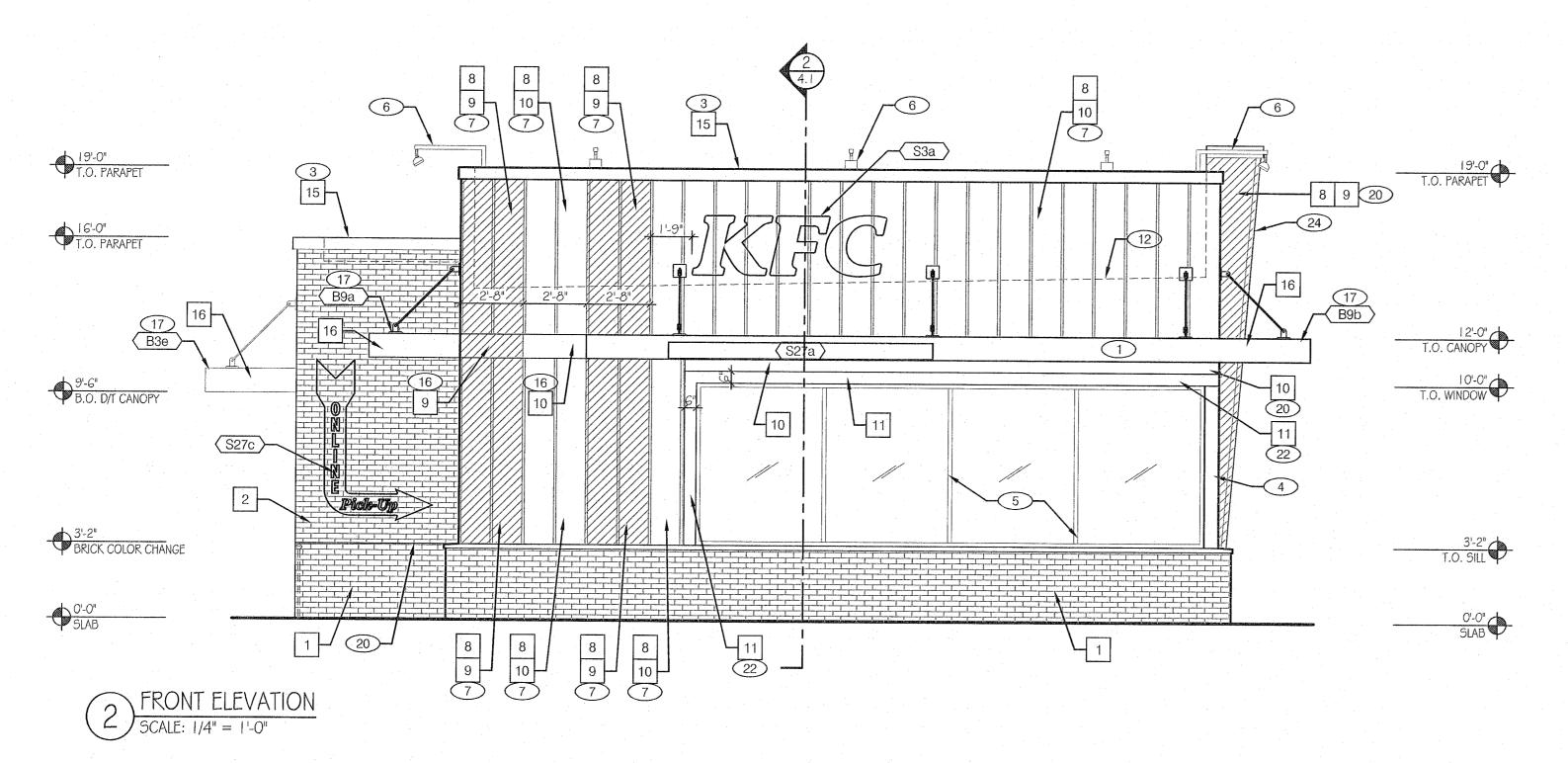
REVISIONS:

WWW. San Antonio, T

3.3.2

SHEET NUMBER:





·				
SYMBOL	EXTERIOR WALL AREA	MANUFACTURER	DESCRIPTION	NOTES
RICK				<u></u>
1 br-1	BLACK EXTERIOR BRICK @ BULDING BASE	THE BELDEN BRICK COMPANY	MODULAR FACE BRICK C216 BLACK DIAMOND VELOUR STANDARD RUNNING BOND	ALTERNATE: MODULAR FACE BRICK C216 DOWNING BLACK VELOUR STANDARD RUNNING BOND
2 br-2	WHITE EXTERIOR BRICK @ BUILDING FACADE	THE BELDEN BRICK COMPANY	MODULAR FACE BRICK ALASKA WHITE VELOUR STANDARD RUNNING BOND	
ETAL	T			
5 m-1	RED METAL	VENDOR PROVIDED	48"X96"- PTD TO MATCH p-1 BENJAMIN MOORE EXOTIC RED 2086-10	
6 m-2	WHITE METAL	VENDOR PROVIDED	48"X96"- PTD TO MATCH p-2 BENJAMIN MOORE WEDDING VEIL 2125-70	
PECIAL FII	VISH			
8 sf-1	FIBER CEMENT SIDING AT WALLS	JAMES HARDIE	BOARD AND BATTEN STYLE WHERE SHOWN (PAINTED) REFER TO EXTERIOR ELEVATIONS.	www.jameshardie.com HARDIE PANEL VERTICAL SIDING - SMOOTH
AINT				
9 p-1	RED EXTERIOR PAINT	TBD	BENJAMIN MOORE EXOTIC RED 2086-10	
10 p-2	WHITE EXTERIOR PAINT	TBD	BENJAMIN MOORE WEDDING VEIL 2125-70	
11 p-3	BLACK EXTERIOR PAINT	TBD	BENJAMIN MOORE ONYX 2133-10	
ETAL TRIM	1			k
15	EXTERIOR METAL TRIM (BLACK)		TO MATCH p-3 BENJAMIN MOORE ONYX 2133-10	
16	EXTERIOR METAL TRIM (RED)		TO MATCH p-1 BENJAMIN MOORE EXOTIC RED 2086-10	

METAL WRAP TO MATCH EXTERIOR STOREFRONT FRAMING (CLEAR ANODIZED ALUMINUM)

ALUMINUM STOREFRONT WINDOW / DOOR SYSTEM. SEE SHEET 5.1.1.

WALL LIGHTING - LIGHTING VENDOR SUPPLIED / GC INSTALLED. SEE

COORDINATE LOCATION OF GRAPHIC WITH FINAL ELECTRIC PANEL/GAS METER LOCATION. ADJUST HEIGHT OF LETTERS AS REQUIRED.

HARDIE TRIM 2.5" WIDTH, PAINTED TO MATCH ADJACENT SURFACES.

VENDOR PROVIDED CANOPY

EMERGENCY LIGHTS, SEE ELECTRICAL SHEETS

HANDICAP SIGNAGE; MOUNT AT 5'-0" A.F.F.

EXTERIOR FINISH DIMENSION; TYPICAL.

SECURITY DOOR. OWNER-SUPPLIED / G.C. INSTALL.

MISCELLANEOUS:

- A. SEE SHEET 5.1.1 "WINDOW TYPES" FOR WINDOW ELEVATIONS.
- B. REFER TO SHEET 5.1.2 FOR EXTERIOR GRAPHICS IMAGE COMPONENTS SCHEDULE - IMAGE COMPONENTS SCHEDULE; REFER TO GRAPHICS PACKAGE FOR ADDITIONAL INFORMATION.

SEALERS (REFER TO SPECS):

A. SEALANT AT ALL WALL AND ROOF PENETRATIONS. B. SEALANT AT ALL WINDOW AND DOOR FRAMES AT HEAD AND JAMB. DO NOT SEAL SILL AT WINDOWS.

THE GENERAL CONTRACTOR SHALL ENSURE THAT THE BRICK JOINTS ARE PLUMB AND LEVEL, AND THE BRICK FACES ALIGNED AND FLUSH.

VENDOR SUPPLIED / INSTALLED ELEMENTS:

GC TO COORDINATE WITH VENDOR PROVIDED / VENDOR INSTALLED SIGNAGE AND BUILDING ELEMENTS.

NOTE:

REFER TO GRAPHICS PACKAGE FOR EXACT LOCATION, SIZE AND FORM OF ALL EXTERIOR DIMENSIONAL AND APPLIED LOGOS, SIGNS BANNERS AND GRAPHICS.

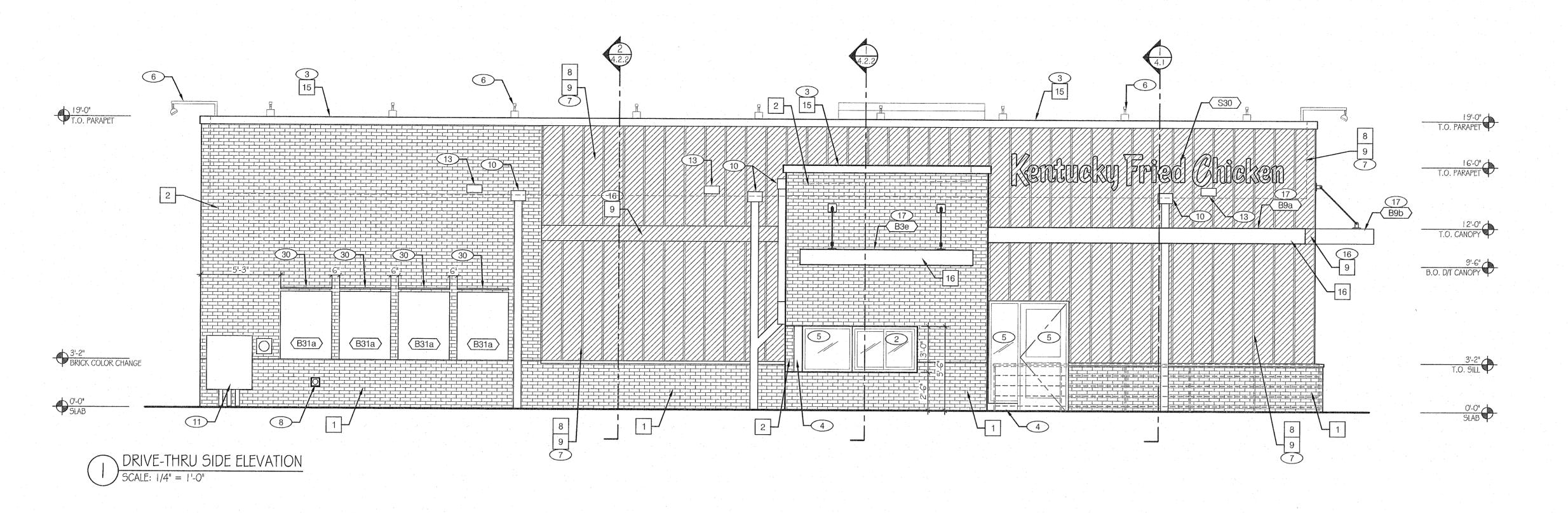
See sheet 4.0 for glass notes

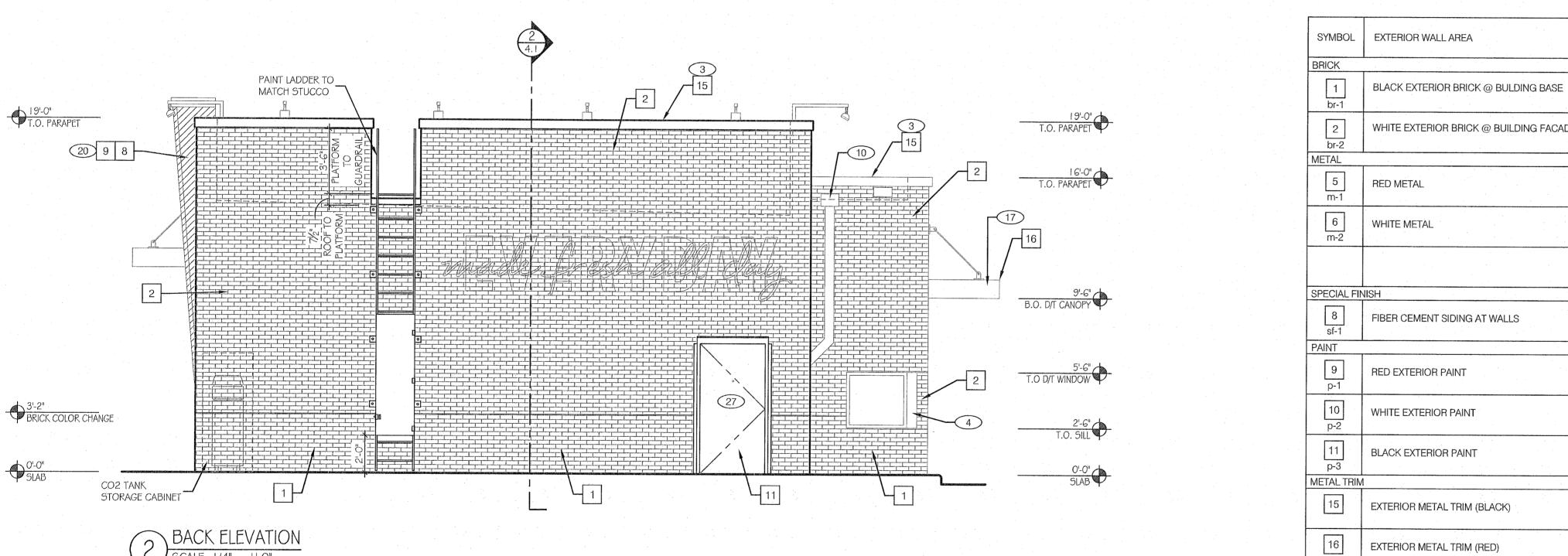
DATE: JOB NO: 37692

Antonio,

Dr W, San

DRAWN BY: SHEET NUMBER:





SYMBOL	EXTERIOR WALL AREA	MANUFACTURER	DESCRIPTION	NOTES
BRICK				
1 br-1	BLACK EXTERIOR BRICK @ BULDING BASE	THE BELDEN BRICK COMPANY	MODULAR FACE BRICK C216 BLACK DIAMOND VELOUR STANDARD RUNNING BOND	ALTERNATE: MODULAR FACE BRICK C216 DOWNING BLACK VELOUR STANDARD RUNNING BOND
2 br-2	WHITE EXTERIOR BRICK @ BUILDING FACADE	THE BELDEN BRICK COMPANY	MODULAR FACE BRICK ALASKA WHITE VELOUR STANDARD RUNNING BOND	
METAL				
5 m-1	RED METAL	VENDOR PROVIDED	48"X96"- PTD TO MATCH p-1 BENJAMIN MOORE EXOTIC RED 2086-10	
6 m-2	WHITE METAL	VENDOR PROVIDED	48"X96"- PTD TO MATCH p-2 BENJAMIN MOORE WEDDING VEIL 2125-70	
ODEOLAL EIN				
SPECIAL FIN	NSH	JAMES HARDIE	DOADD AND DATTEN OF A FIAMIEDE	
8 sf-1	FIBER CEMENT SIDING AT WALLS	JAIVIES HARDIE	BOARD AND BATTEN STYLE WHERE SHOWN (PAINTED) REFER TO EXTERIOR ELEVATIONS.	www.jameshardie.com HARDIE PANEL VERTICAL SIDING - SMOOTH
PAINT		· · · · · · · · · · · · · · · · · · ·		
9 p-1	RED EXTERIOR PAINT	TBD	BENJAMIN MOORE EXOTIC RED 2086-10	
10 p-2	WHITE EXTERIOR PAINT	TBD	BENJAMIN MOORE WEDDING VEIL 2125-70	
11 p-3	BLACK EXTERIOR PAINT	TBD	BENJAMIN MOORE ONYX 2133-10	
METAL TRIM	1			
15	EXTERIOR METAL TRIM (BLACK)		TO MATCH p-3 BENJAMIN MOORE ONYX 2133-10	
16	EXTERIOR METAL TRIM (RED)		TO MATCH p-1 BENJAMIN MOORE EXOTIC RED 2086-10	

1 PAINT WALL SURFACE BEHIND AWNING

7 HARDI-PANEL SIDING

OVERFLOW SCUPPER

11 SWITCHGEAR.

19 NOT USED

9 CO2 FILLER VALVE & COVER.

12 INDICATES TOP OF ROOF DECK.

GAS METER. DO NOT PAINT METER.

17) VENDOR PROVIDED CANOPY

21 LINE OF PAINT COLOR CHANGE.

30 LINEAR DOWNLIGHT FIXTURE.

22) 6" WIDE PAINTED BAND.

16 TRIM BOARD. REFER TO WALL SECTIONS.

18 HOLLOW METAL FRAMED WINDOW/DOOR SYSTEM.

HARDIE PANEL WITH NO BATTENS THIS AREA.

EMERGENCY LIGHTS, SEE ELECTRICAL SHEETS

STAINLESS STEEL CORNER GUARDS.

EXTERIOR FINISH DIMENSION, TYPICAL

HANDICAP SIGNAGE; MOUNT AT 5'-0" A.F.F.

SECURITY DOOR. OWNER-SUPPLIED / G.C. INSTALL.

29 ROOFTOP EQUIPMENT - SHOWN DASHED FOR REFERENCE.

DRIVE-THRU WINDOW. SEE SHEET 5.1.1

PARAPET FASCIA CAP (COLOR: BLACK)

8 HOSE BIB - REFER TO PLUMBING DRAWINGS.

SCUPPER, COLLECTOR AND DOWNSPOUT 6" MIN.

METAL WRAP TO MATCH EXTERIOR STOREFRONT FRAMING (CLEAR ANODIZED ALUMINUM)

ALUMINUM STOREFRONT WINDOW / DOOR SYSTEM. SEE SHEET 5.1.1.

WALL LIGHTING - LIGHTING VENDOR SUPPLIED / GC INSTALLED. SEE

COORDINATE LOCATION OF GRAPHIC WITH FINAL ELECTRIC PANEL/GAS METER LOCATION. ADJUST HEIGHT OF LETTERS AS REQUIRED.

HARDIE TRIM 2.5" WIDTH, PAINTED TO MATCH ADJACENT SURFACES.

.

A. SEE SHEET 5.1.1 "WINDOW TYPES" FOR WINDOW ELEVATIONS.

B. REFER TO SHEET 5.1.2 FOR EXTERIOR GRAPHICS - IMAGE COMPONENTS SCHEDULE; REFER TO GRAPHICS PACKAGE FOR ADDITIONAL INFORMATION.

SEALERS (REFER TO SPECS):

MISCELLANEOUS:

A. SEALANT AT ALL WALL AND ROOF PENETRATIONS.
 B. SEALANT AT ALL WINDOW AND DOOR FRAMES AT HEAD AND JAMB. DO NOT SEAL SILL AT WINDOWS.

THE GENERAL CONTRACTOR SHALL ENSURE THAT THE BRICK JOINTS ARE PLUMB AND LEVEL, AND THE BRICK FACES ALIGNED AND FLUSH.

VENDOR SUPPLIED / INSTALLED ELEMENTS:

GC TO COORDINATE WITH VENDOR PROVIDED / VENDOR INSTALLED SIGNAGE AND BUILDING ELEMENTS.

NOTE:

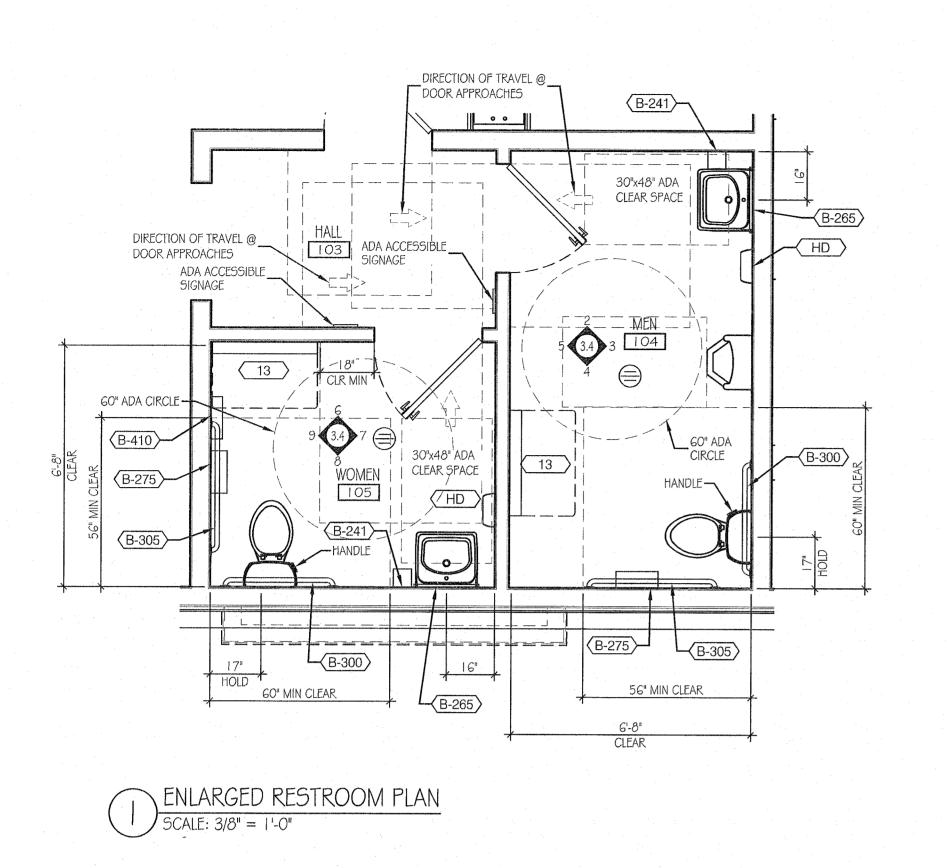
REFER TO GRAPHICS PACKAGE FOR EXACT LOCATION, SIZE AND FORM OF ALL EXTERIOR DIMENSIONAL AND APPLIED LOGOS, SIGNS BANNERS AND GRAPHICS.

See sheet 4.0 for glass notes

JOB NO: DRAWN BY: SHEET NUMBER:

MINITED/INSTECT Rockgate 6807 Military Dr W, San Antonio, Tx. 78227

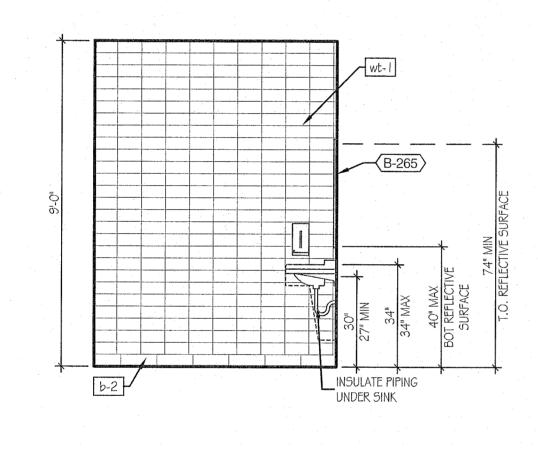
KFR-03_3 Elevs.dwg

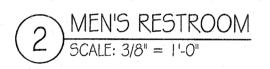


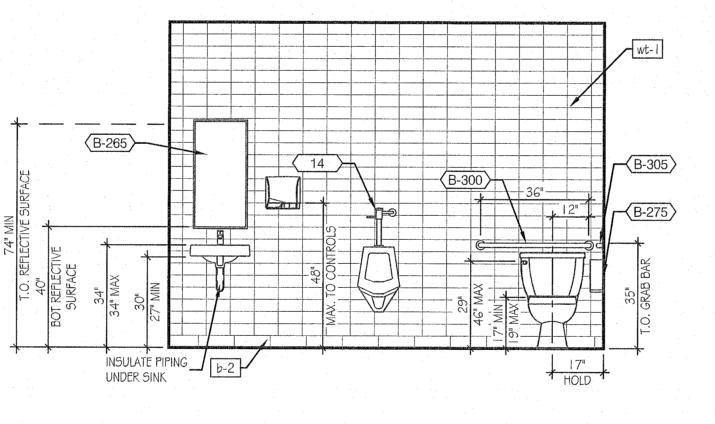
TOILET ACCESSORIES EQUIPMENT B-241 SOAP/SANITIZER DISPENSER (WALL MOUNT) BOBRICK B-2013 AUTOMATIC FOAM B-265 MIRROR BURKE DECOR; BLACK; ITEM #8020539 B-275 TOILET PAPER DISPENSER BOBRICK B288 SURFACE MOUNT HD AUTOMATIC HAND DRYER WORLD DRYER "SLIMDRI" L-974A B-300 GRAB BAR 1-1/2"DIA X 36" S.S. FIN. BOBRICK #B6806X36 B-305 GRAB BAR 1-1/2"DIA X 42" S.S. FIN. BOBRICK #B6806X42 B-410 SANITARY NAPKIN DISPOSAL BOBRICK B270 SURFACE MOUNT CH COAT HOOK BOBRICK B-6827 KOALA KARE #KB200 HORIZONTAL WALL MOUNTED DCS DIAPER CHANGING STATION UR URINAL SEE PLUMBING GRAB BARS NOTE - 250 LBF. MINIMUM. PROVIDE THE REQUIRED QUANTITY AND LENGTH AS INDICATED ON THE DRAWINGS OR REQUIRED BY THE GOVERNING CODE, THE BAR SHALL BE 1-1/2" IN DIAMETER AND MOUNTED WITH 1-1/2" CLEARANCE FROM THE WALL.

- A. PROVIDE PROPER 2x BLOCKING AT WALL RECESSED MOUNTED ACCESSORIES.
- B. GRAB BARS, FASTENERS AND MOUNTING DEVICES SHALL BE INSTALLED PER ADA REQUIREMENTS. REFER TO COVER SHEET 0.1
- C. REFER TO FLOOR PLAN NOTES FOR BLOCKING AND SUBSTRATE NOTES.
- D. REFER TO ADA REQUIREMENTS ON COVER SHEET 0.1 FOR MOUNTING HEIGHTS AND CLEARANCES OF
- E. ALL DIMENSIONS THIS DRAWING ARE TO FINISH SURFACE U.O.N.

ACCESSORIES AND FIXTURES.

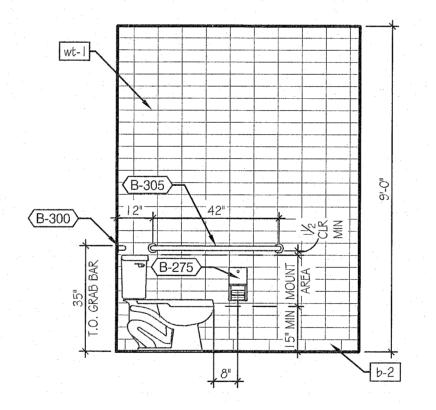




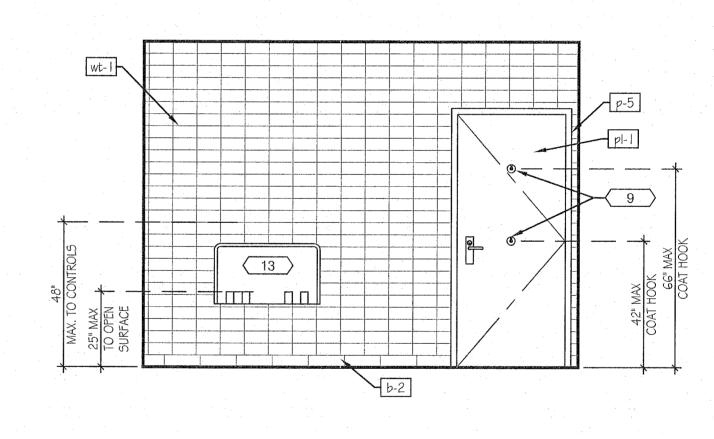


MEN'S RESTROOM

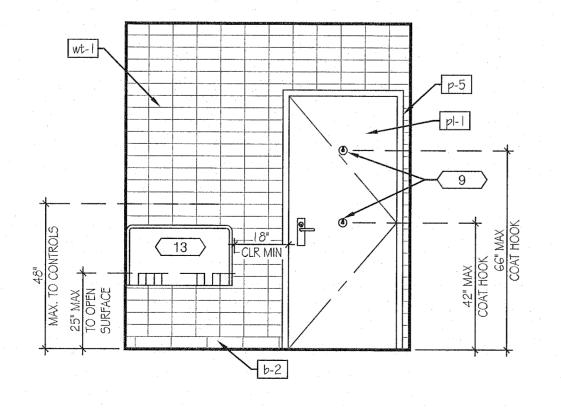
SCALE: 3/8" = 1'-0"



 $4 \frac{\text{MEN'S RESTROOM}}{\text{SCALE: 3/8"} = 1'-0"}$

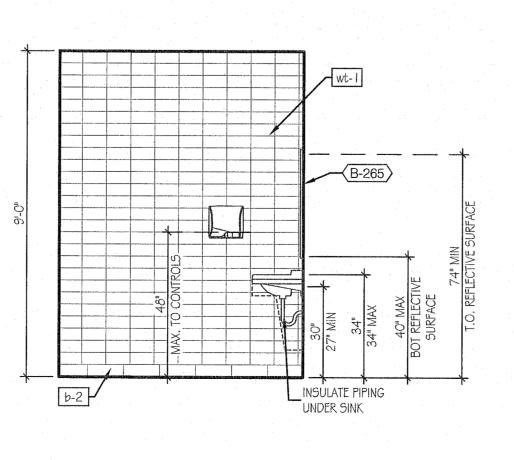


5 MEN'S RESTROOM 5 SCALE: 3/8" = 1'-0"



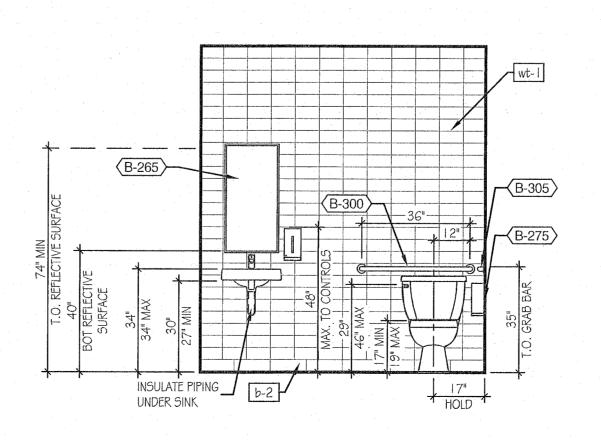
WOMEN'S RESTROOM

SCALE: 3/8" = 1'-0"

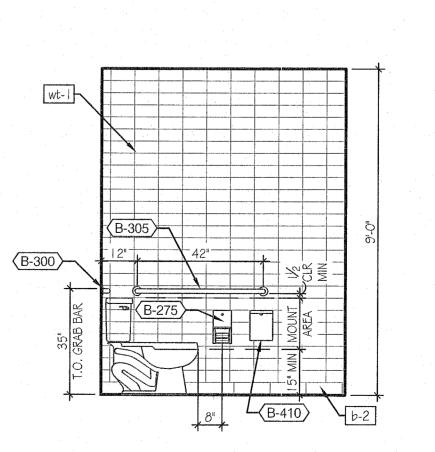


WOMEN'S RESTROOM

SCALE: 3/8" = 1'-0"



8 WOMEN'S RESTROOM SCALE: 3/8" = 1'-0"



WOMEN'S RESTROOM

SCALE: 3/8" = 1'-0"

REVISIONS:

Rockgate

78227

tary Dr W,

SHEET NUMBER:

WATERPROOFING:

- A. TOP NAILING AT PARAPET CAP FLASHING WILL NOT BE ACCEPTED.B. PENETRATIONS IN ROOFING MEMBRANE AND FLASHING SHALL ONLY BE MADE AS INDICATED ON THE DRAWINGS.
- C. ALL SHEET MTL FLASHING SHALL BE 22 GA MIN.

MISCELLANEOUS:

- A. ROOF PENETRATIONS CLOSER THAN 12" FROM ANOTHER WILL NOT BE ALLOWED. B. EXHAUST FANS MIN. 10'-0" AWAY FROM ALL AIR INTAKE / SUPPLY.
- **ROOF INSULATION:**
- A. SEE SPECIFICATIONS ON SHEET 4.0

ROOFING SYSTEM:

- A. SEE SPECIFICATIONS SHEET 4.0B. G.C. SHALL COORDINATE ALL INSTALLATION REQUIREMENTS.
- A. CRICKETS @ ROOFTOP EQUIPMENT SHALL BE FORMED WITH TAPERED INSULATION TO
- **ROOF CRICKETS:**
- SUCH AN EXTENT AS TO PROVIDE A POSITIVE MIN. 1/2" SLOPE TO THE VALLEY.

- 1 HVAC UNIT. INSTALL PLUMB AND LEVEL.
- 2 KITCHEN HOOD EXHAUST FAN. SEE SHEETS MECHANICAL. REFER to DETAIL 8/4.5.
 - RESTROOM EXHAUST FAN VENT PIPE. SEE MECHANICAL. COORDINATE LOCATION WITH RTU-2 AIR INTAKE; SEE KEYNOTE 23, THIS SHEET.
- (4) NOT USED
- 5 ROOF WALK MATS. SEE ROOF SPECS ON SHEET 4.0
- 6 ICE MACHINE CONDENSERS.
- 7 WALK-IN COOLER / FREEZER CONDENSERS. SEE SCOPE OF WORK SHEET.
- 8 OUTSIDE AIR INTAKE FOR HVAC UNIT. MAINTAIN MIN. 10'-0" 20 WATER HEATER INTAKE; SEE PLUMBING. SEPARATION FROM PLUMBING VENTS, FLUES AND BUILDING EXHAUST.
- 9 PARAPET CAP. SEE DETAIL 1,2,3 /4.3 & 14/4.5
- PREFERRED LOCATION FOR SATELLITE DISH SLED. SEE SCOPE OF WORK.
- (11) COLLECTOR HEAD AND DOWNSPOUT.
- 12 ROOF CRICKET; MINIMUM SLOPE = $\frac{1}{2}$ " per FT.
- 13 NOT USED

SCUPPERS. SEE DETAIL 3/4.5. TOP OF OVERFLOW SCUPPER TO BE SET 2" ABOVE TOP OF ROOF DRAIN

REVISIONS:

Antonio,

San

Military Dr W,

WASTE VENT UP THRU ROOF; SEE DETAIL 10/4.5. COORDINATE LOCATION WITH KEYNOTE 22, THIS SHEET.

(16) NOT USED.

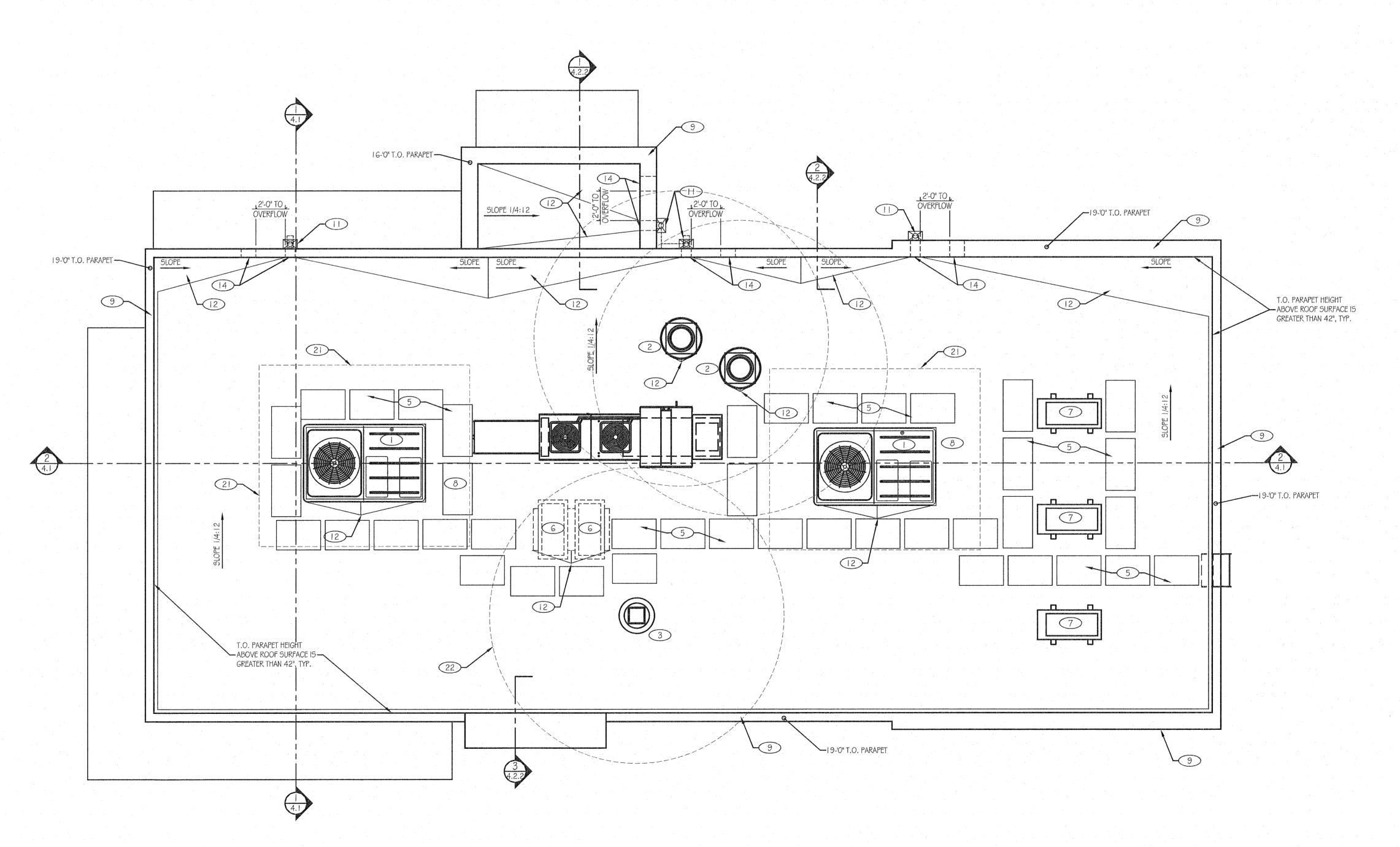
17 PIPE HOOD FOR SATELLITE DISH and/or REFRIGERANT LINES. COORDINATE LOCATION. SEE DETAIL 5/4.5. WATER HEATER EXHAUST, SEE PLUMBING. COORDINATE LOCATION WITH RTU-2 AIR INTAKE; SEE KEYNOTE 23, THIS

(19) NOT USED

(21) CLEAR ROOF WORK AREA AROUND RTU.

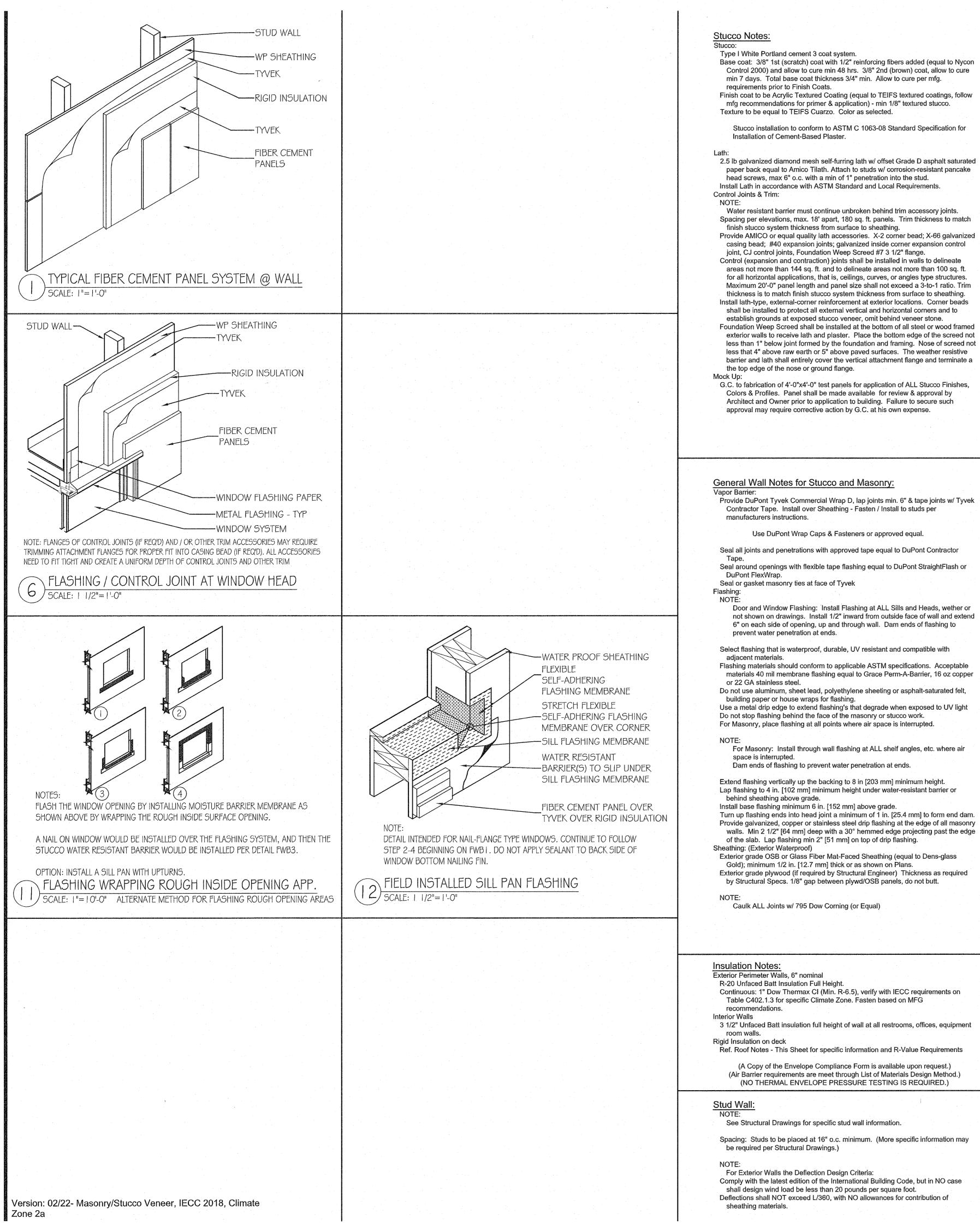
22 CLEAR ROOF AREA AROUND RTU AIR INTAKE. NO BUILDING / EQUIPMENT EXHAUST PERMITTED WITHIN THIS

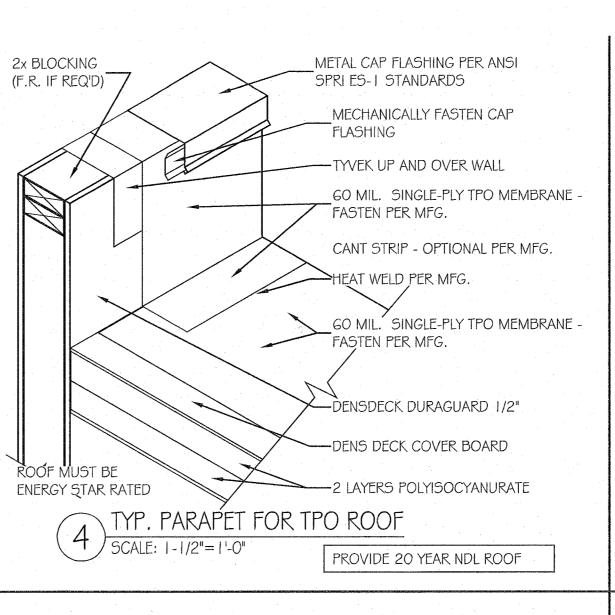
*REFER TO MEP DRAWINGS FOR ROOFTOP EQUIPMENT, VENT PIPES, ETC.



PLAN NORTH

NORTH





METAL CAP FLASHING PER ANSI SPRI ES-2x BLOCKING (F.R. IF REQ'D) STANDARDS 40 MIL. FLEX. RUBBERIZED ASPHALT / -POLYETHYLENE FLASHING, EQUAL TO GRACE PERM-A-BARIER -MECHANICALLY FASTEN CAP FLASHING CAP SHEET APP MODIFIED TORCHED AT —PARAPET WALLS OR PER MFG. - INSTALL UP OVER WALL MODIFIED BITUMEN BASE PLY -(SMOOTH SURFACE) TORCH APPLIED OR PER MFG. -TYVEK UP AND OVER WALL CAP SHEET APP MODIFIED IN COLD PROCESS ADHESIVE -DENSDECK DURAGUARD 1/2" MODIFIED BITUMEN BASE PLY — (SMOOTH SURFACE) IN COLD PROCESS ADHESIVE -CONTINUOUS CANT — DENS DECK COVER BOARD ENERGY STAR RATED -2 LAYERS POLYISOCYANURATE TYP. PARAPET FOR BUILT UP ROOF SCALE: 1-1/2"=1'-0" PROVIDE 20 YEAR NDL ROOF

Roof Notes:

Work Roof Deck to provide positive drainage to roof drains.

Single-Ply Roof System (Base Bid): Mechanically attached 60 mil single-ply TPO Membrane Roofing system over Dens-Deck over Polyisocyanurate Insulation. Energy Star: Provide White Color to meet minimum 3rd Year SRI Rating of 64 or

Warranty: Provide 20 Year NDL Warranty Built-up Roof System (Alternate Bid):

Two Ply Modified Bitumen Roof System: Base Sheet: Modified Base (smooth) attached to Dens Deck with Cold Process. Cap Sheet: APP Modified, installed with Cold Process Adhesives. Energy Star: Cap Sheet to be white granules to meet minimum 3rd Year SRI Rating of 64 or better.

Warranty: Provide 20 Year NDL Warranty

Roof Deck Insulation: Provide 2 layers Polyisocyanurate, mechanically attached using approved fasteners according to manufacturer's & building code fastening frequency. Place insulation panels so that joints are staggered, max panel size 4'x8'.

Provide minimum 1-90 Fastening Pattern or per Local Wind Uplift Requirements. R-Value:

Above deck insulation & Cover Board to achieve min. Long-Term Thermal Resistance: (LTTR) of R-28. Cover board:

Provide Cover Board equal to 1/4" GP DensDeck Prime Roof board (r-0.28). Max panel size 4'x8'. Stagger joints between insulation & cover board. GC to Provide 5/8" DensDeck Cover Board full height at back of parapets.

Tapered Insulation: Provide tapered Insulation where required to direct water to roof gutters and away from low areas. Crickets are to be a minimum of 1/2" per foot slope. Crickets at parapets, equipment, drains and as necessary to prevent ponding and to ensure positive water drainage.

Furnish and install new 3 ft. wide (min) walk pads. Use Manufacturers approved walk pads. Install per Manufacturers requirements. Provide traffic path from roof access point to each piece of HVAC, Refrigeration and

Exhaust Ventilation Equipment that will require cyclical service. 24 GA pre-finished preformed metal flashing as required by roofing manufacturer

and to provide water tight construction. Provide penetration flashing to meet mfg. requirements and to maintain Roof Warranty & Assembly. Fasten and caulk flashing, curbs penetrations per manufacturer's recommendations. At parapets return cover board and roofing up over prefabricated cant up back of parapet over top plate of wall prior to installing parapet cap flashing. At tall

parapets (over 60" tall) the contractor has the option to provide continuous counter flashing with continuous metal termination bar per manufacturer's recommended details. Provide finish as detailed, alternate is to provide 24 ga galvanized metal siding over cover board on water proof sheathing and 1 layer of self adhered vapor / moisture barrier. Flash and caulk to provide a watertight Cap Flashing:

Provide Pre-finished, Prefabricated 24 GA Metal Cap over Prefabricated Base. Alternate: Provide Galvalume, Prefabricated 24 GA Metal Cap over Prefabricated Base - Paint with epoxy enamel, color as selected. Pitch Pans:

Fill Pitch Pans and provide Pelican Hoods - typical at all pitch pans. General Roofing Notes:

1. Provide 20 year NDL Warranty and Class "A" Fire Rated Roofing Assembly. The roof system guarantee shall include the rigid insulation, insulation fasteners/plates, insulation adhesive and roof membrane/flashing system. The guarantee shall be a term type, without deductibles or limitations on coverage amount, and shall be issued at no additional cost to the Owner.

2. Roof systems specified shall be applied only by manufacturer approved applicator in order to meet guarantee requirements. Contractor to install the membrane system per all local, state and federal codes and regulations.

3. Refer to structural and MEP drawings for additional information. Coordinate location of mechanical units with structural and mechanical drawings.

4. Roofing subcontractor to coordinate location of HVAC units and roof top accessories with structural, mechanical and electrical drawings for placement of crickets and tapered rigid board insulation lay-out and subsequent installation in order to avoid ponding water conditions attributable to board lay-out issues. 5. HVAC condensate lines to terminate at roof drain or as required by code.

6. All curbs and pipe penetrations shall have a minimum of 16" clear from each other for roof flashing purposes. All equipment shall have a minimum 16" clear from all adjacent parapets. All HVAC mounted equipment (disconnect boxes, GFI, pipe supports shall not be closer to 16" from each other or curb. No Unistrut pipe supports shall be used as vertical members for mounting equipment to roof

7. Provide standard preformed roof jacks at all structural & pipe penetrations, per MEP and roof manufacturer. All sealants shall be warranted a minimum of 20

8. All flashing cements, caulking, fasteners, products and accessories shall be approved by roofing manufacturer with the manufacturer's brand.

9. The roof structure shall not be used for stockpiling of equipment or materials

unless approved by the architect, structural engineer and the joist manufacturer.

10. The roofing system shall be as per drawings and per manufacturers specifications. 11. Coordinate roof elevations with structural drawings, refer to manufacturers specification sheet for roof related items, including guarantees, curbs, flashing, and Storefront / Glazing/ Doors: Energy Code Requirements

Window System Notes: Exterior Windows: Aluminum Window with 1" Insulated Glazing. Exterior - 1/4" Solarban 90 Clear, Interior - 1/4" AFG Low-E (3rd Surface) or Equa

Storefront: 2" x 4 1/2" Clear Aluminum Window System. Similar to Kawneer EnCORE Framing System or Oldcastle Series 3000 XT that meets or exceeds the performance characteristics listed below. Fenestration to be certified by an independent laboratory per NFRC 100 and labeled as such by the manufacturer.

Fenestration Notes:

Fenestration - Performance Characteristics: Window (fixed): U-Factor: 0.50 Min SHGC: 0.25 Min U-Factor: 0.65 Min Window (Operable): SHGC: 0.25 Min Door (Glass): U-Factor: 0.83 Min

1" Insulated Glass - Performance Characteristics: U-Factor: 0.29 Min

Provide samples of Solarban 90 (Clear, Optgray & Solargray) or equal to Architect & Owner for selection. Base Bid: Clear, Alt Bid: Solargray & Optgray.

SHGC: 0.25 Min

SHGC: 0.25 Min

Door Hollow Metal Notes: Door: Standard Hollow Metal Door with Polystyrene, Honeycomb, Fiberboard Core or Equal.

Performance Characteristics: U-Factor: 0.61 Min

(A Copy of the Envelope Compliance Form is available upon request.) (Air Barrier requirements are meet through List of Materials Design Method.) (NO THERMAL ENVELOPE PRESSURE TESTING IS REQUIRED.)

Masonry Veneer Notes:

Two (2) inch air space recommended; One (1) minimum air space required per

Weeps & Drainage System:

Open head joint weeps spaced at no more than 24" o.c. or as recommended. Weeps to be spaced at no more than 24" o.c. and to have 2 1/2" tall x 4" deep x 1/2" polyester weep vent fill material equal to Sandell Mortar Net Weep Vent. Wick and Tube Weep spacing NOT recommended (if used space no greater than

Provide Mortar Netting material at base of wall AND at Shelf Angles in Air Space to protect weep vents from mortar droppings. (Sandell Mortar Net 1/2" to 1 3/8" wide x 10" high saw tooth design or equal).

Anchors Corrugated anchors NOT permitted. Minimum w 1.7 (9 gage, mw11) adjustable wire anchors, hot-diped galvanized, two-piece per ASTM a 153 class B-2.

Minimum one anchor per 2 sq. ft. of wall area (or as required by local building and/or wind storm requirements) Vertical Spacing: 16" o.c. [406 mm] (maximum 18" o.c. [457 mm] o.c.) Horizontal Spacing: 24" o.c. [610 mm] (maximum 32" [813 mm] o.c.) Securely attach anchors to studs through sheathing, not to the sheathing alone. Wind: For High Wind and Seismic areas, anchor per local current code

Shelf Angles & Lintels: Size horizontal leg of all shelf angles and lintels to provide a minimum bearing of 2/3 the thickness of the masonry withe. See Structural for specific Information.

Minimum no. 10 self-tapping corrosion resistant screws with a minimum nominal shank diameter of 0.190 in. [4.8 mm]. Corrosion resistance provided by polymer coating, zinc plating or stainless steel.

Comply with ASTM C 270

Type N recommended; type S alternate. Expansion Joints: Provide Vertical and Horizontal Expansion Joints through masonry veneer. Design and Construct Expansion Joints complying with recommendations of Brick

Industry Association Technical Notes 18 and 18A. Limestone Veneer: Limestone Veneer from local Quarry to confirm to ASTM C 568 Medium Density, Max. 7.5% Water Absorption, Min. Density 135 lbs / cu ft. and min. compressive

strength 4,000 psi.

Provde ASTM C 568 High Density Limestone with a Max. 3% Water Absorption, Min. Density 160 Lbs / cu ft. and min. compressive strength 8,000 psi. (No Water Seal Required.) Ashlar ledge stone pattern from single manufacturer. Units to be of a uniform

texture and color. Finish to be determined from samples submitted to Architect. Water Seal:

Provide penetrating water seal at ALL limestone veneer. Provide two (2) coats (min) Chemprobe Technologies Prime-A-Pell N.S. (on Limestone Wall).

REVISIONS:

5

Rockgate

78227

Anton

San

Em

ASSOCIATES
CHITECTURE PLANNING C ARC

DATE: 04.26.22 JOB NO: 37692 AR K DRAWN BY:

SHEET NUMBER:

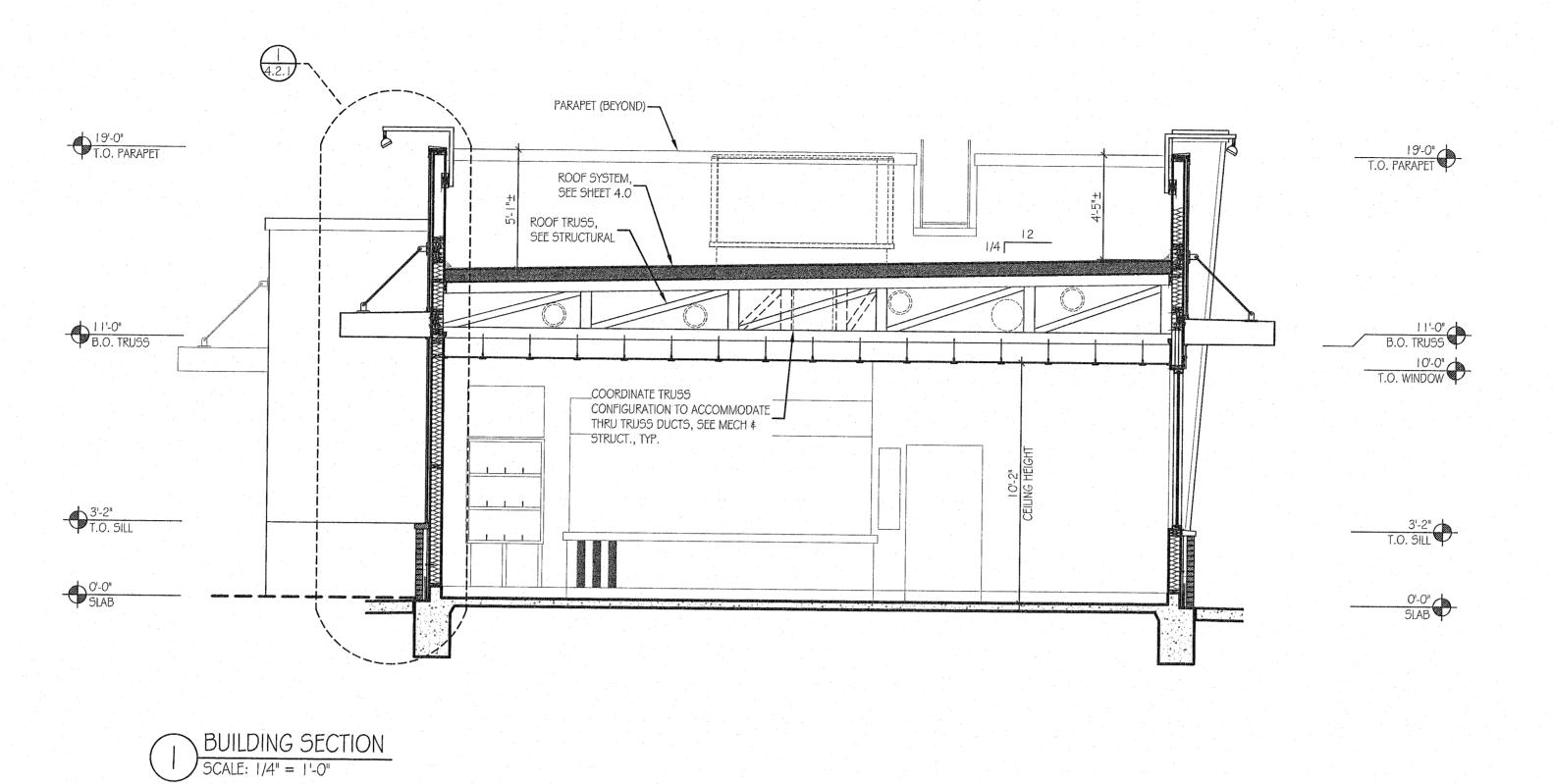
08/2011

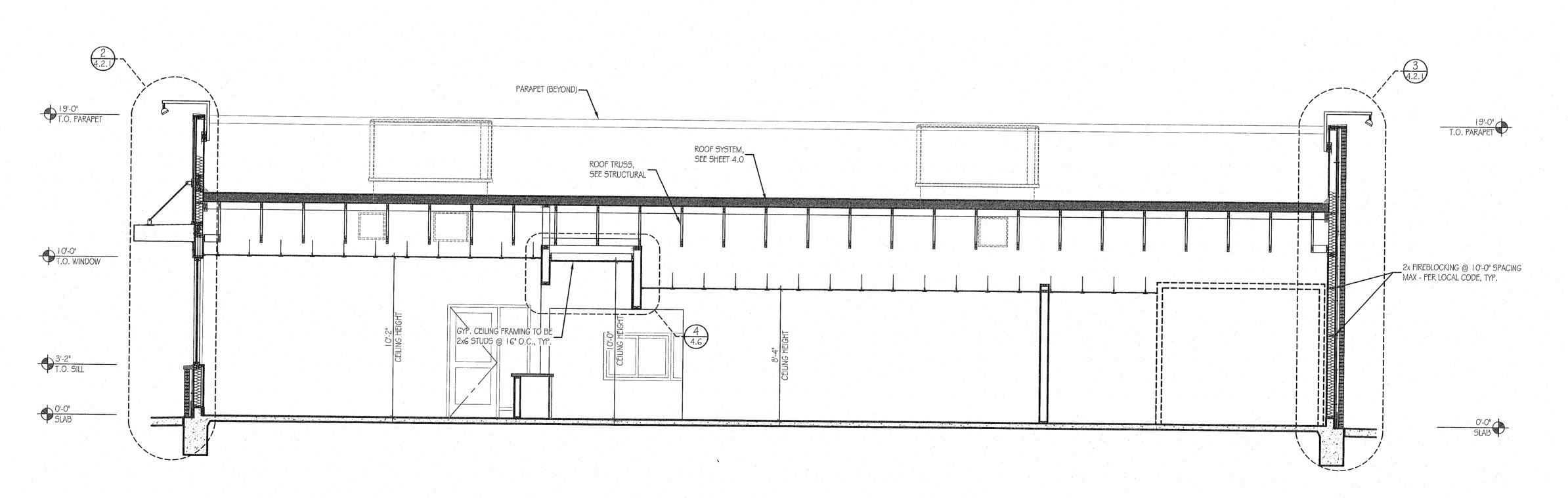
See Structural Drawings for specific stud wall information.

Spacing: Studs to be placed at 16" o.c. minimum. (More specific information may be required per Structural Drawings.)

For Exterior Walls the Deflection Design Criteria: Comply with the latest edition of the International Building Code, but in NO case

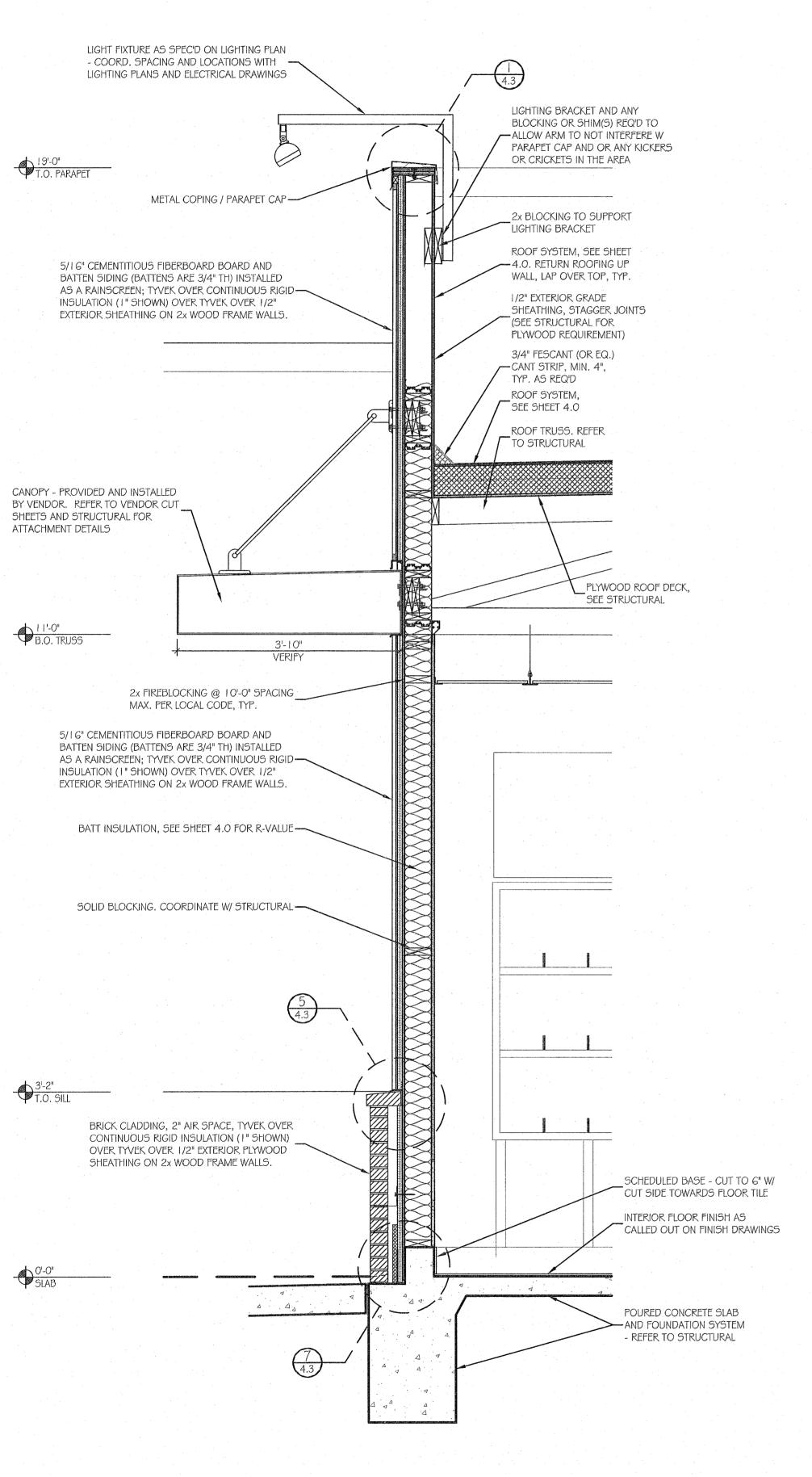
shall design wind load be less than 20 pounds per square foot. Deflections shall NOT exceed L/360, with NO allowances for contribution of sheathing materials.

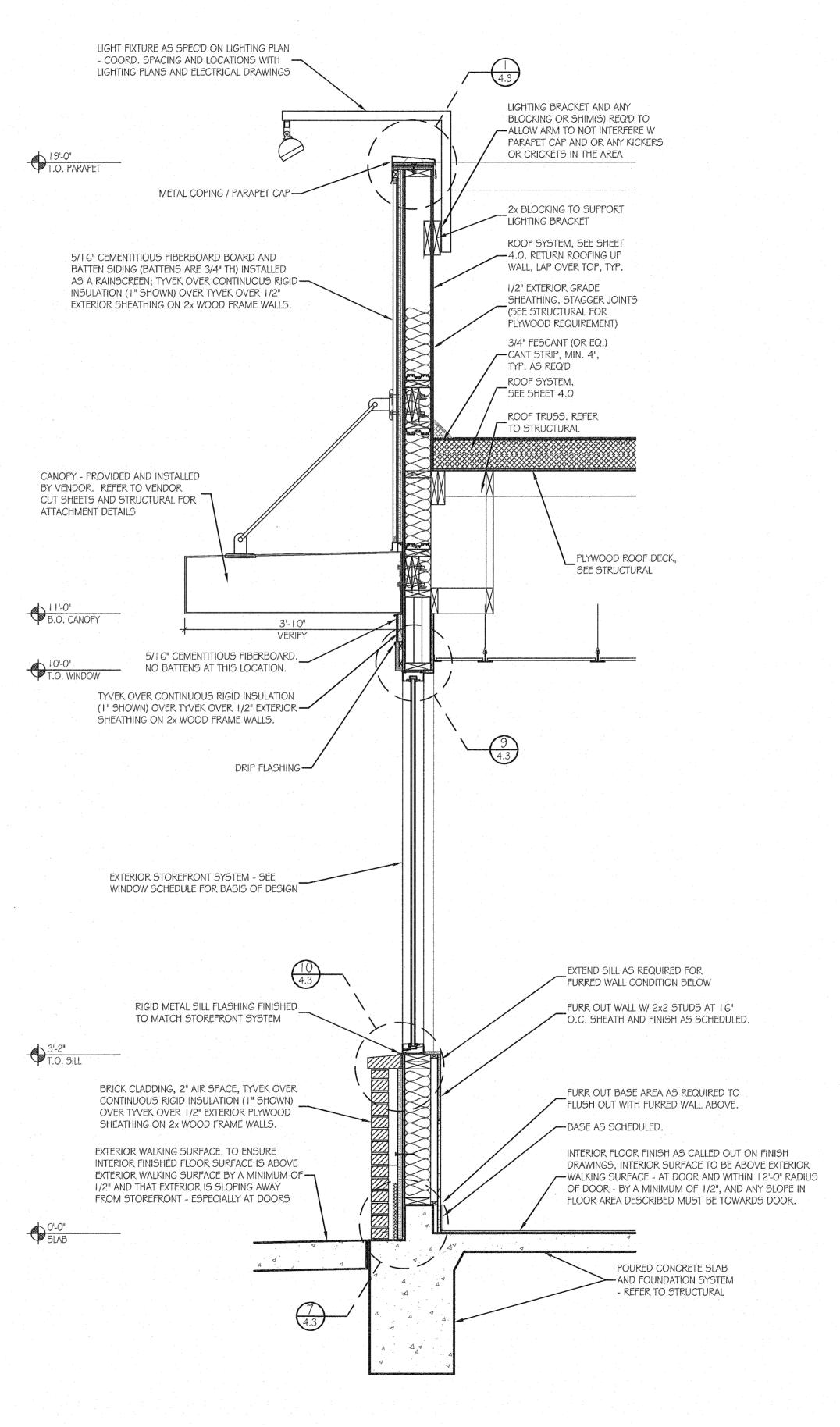


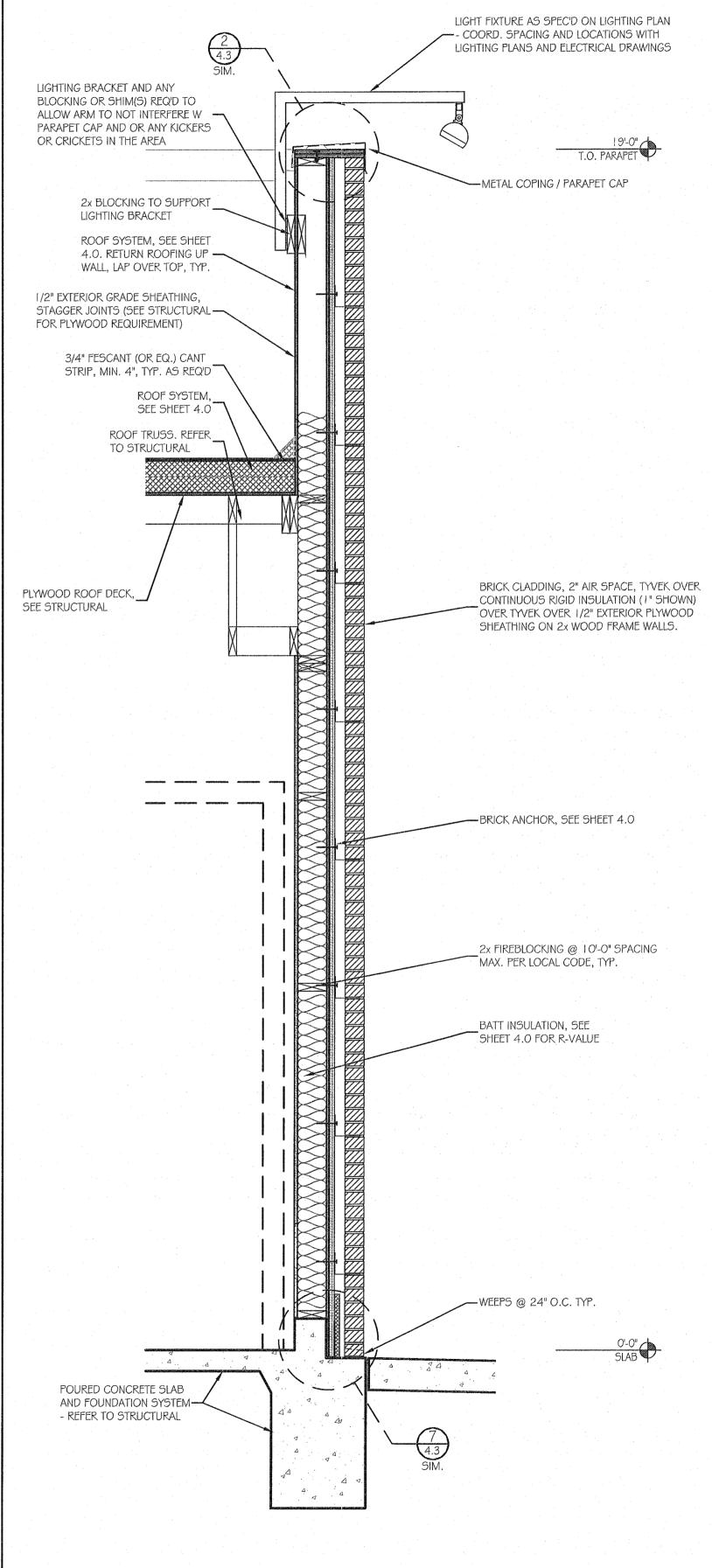


MINITED/INSTRUCT ROCKGate 6807 Military Dr W, San Antonio, Tx. 78227 DATE: 05.05.22 JOB NO: 37692 DRAWN BY: SHEET NUMBER:

REVISIONS:



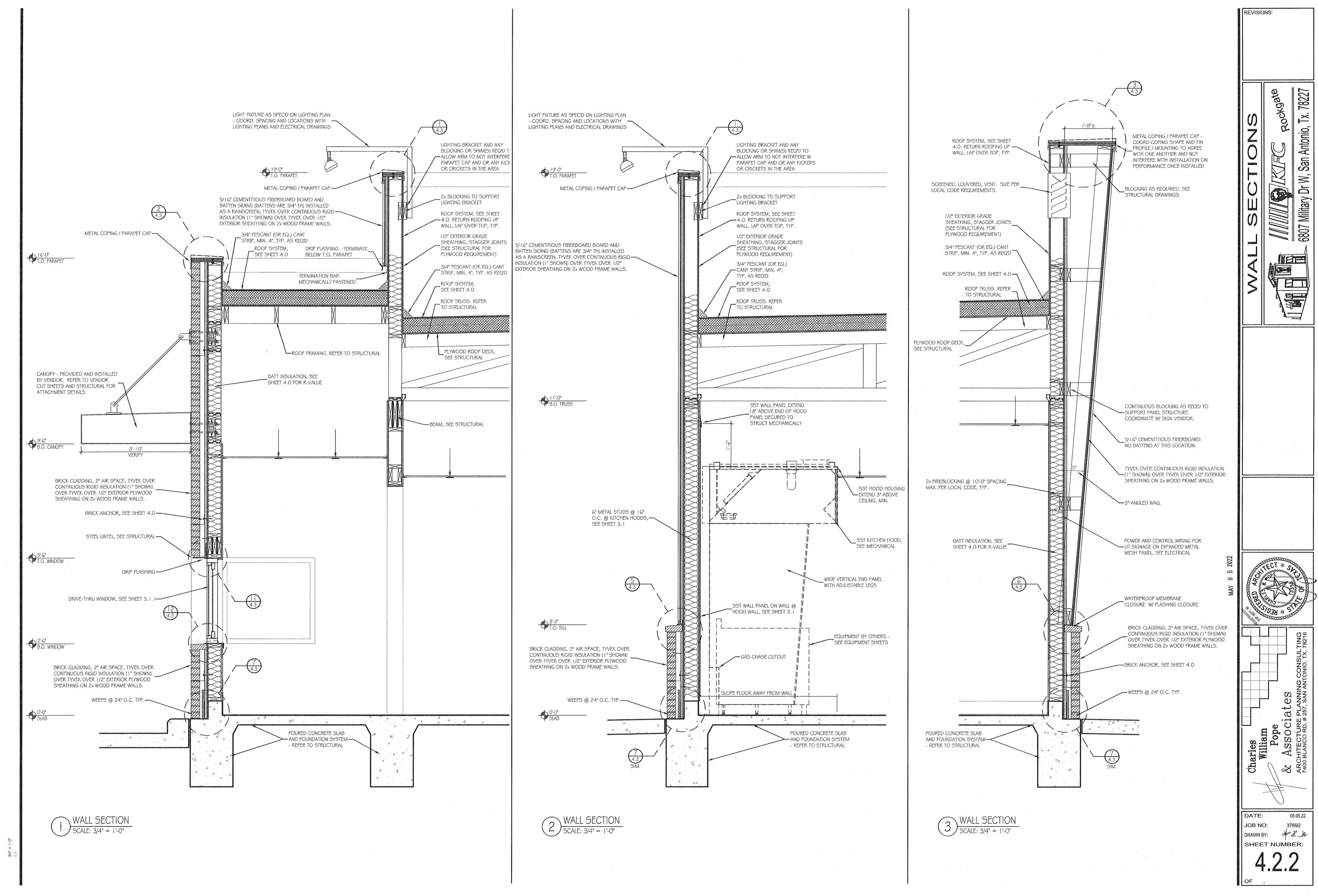




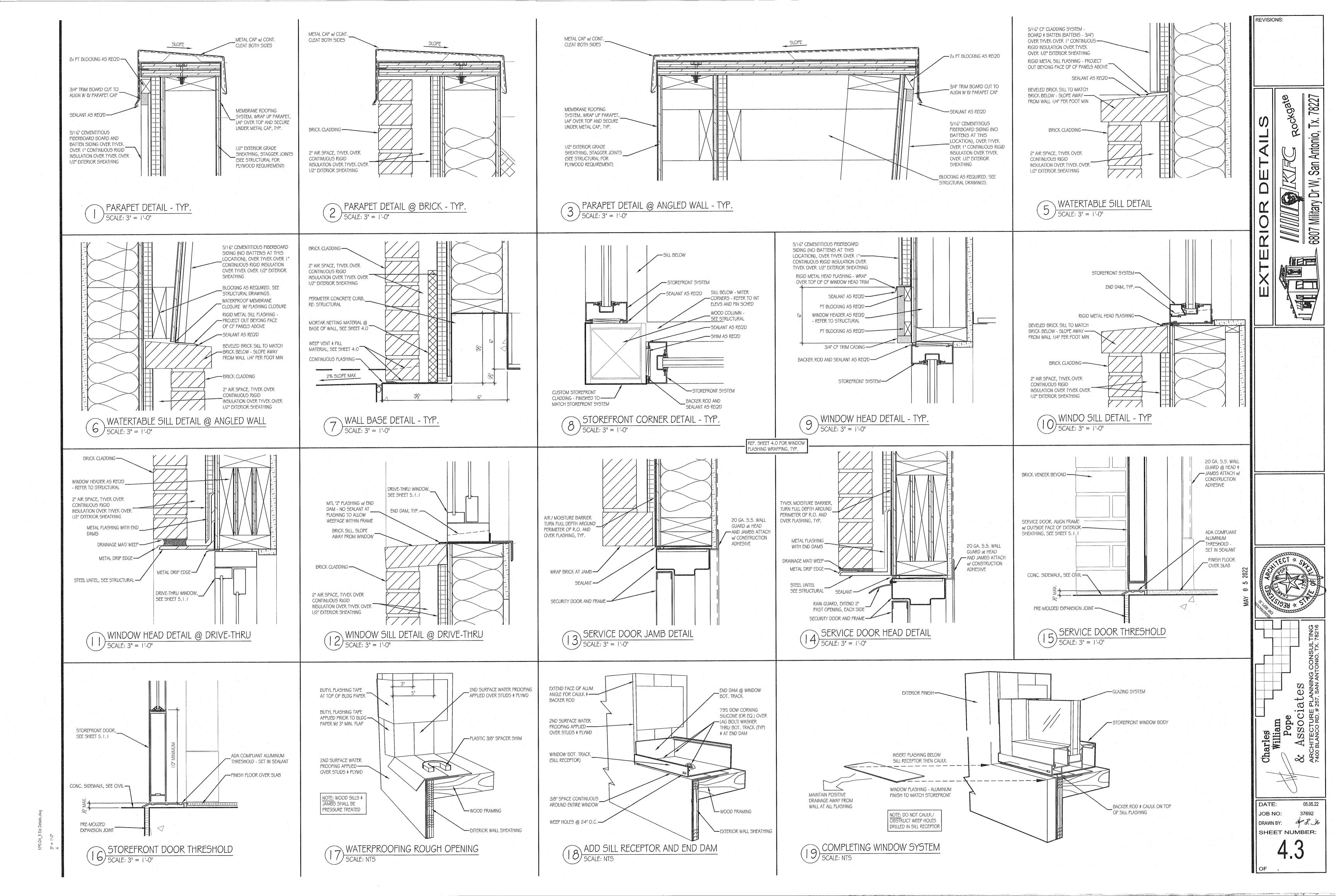
DATE: JOB NO: SHEET NUMBER:

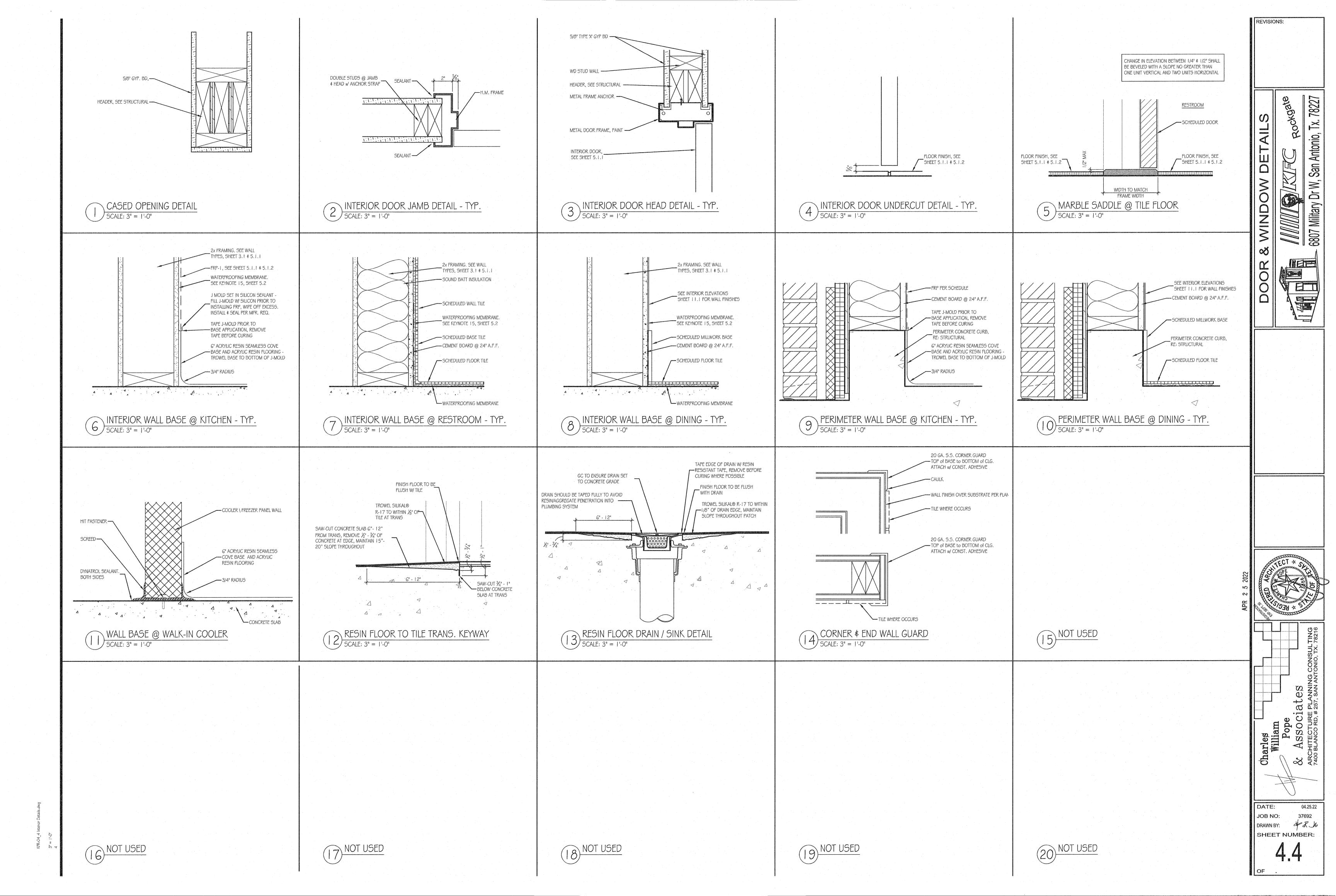
REVISIONS:

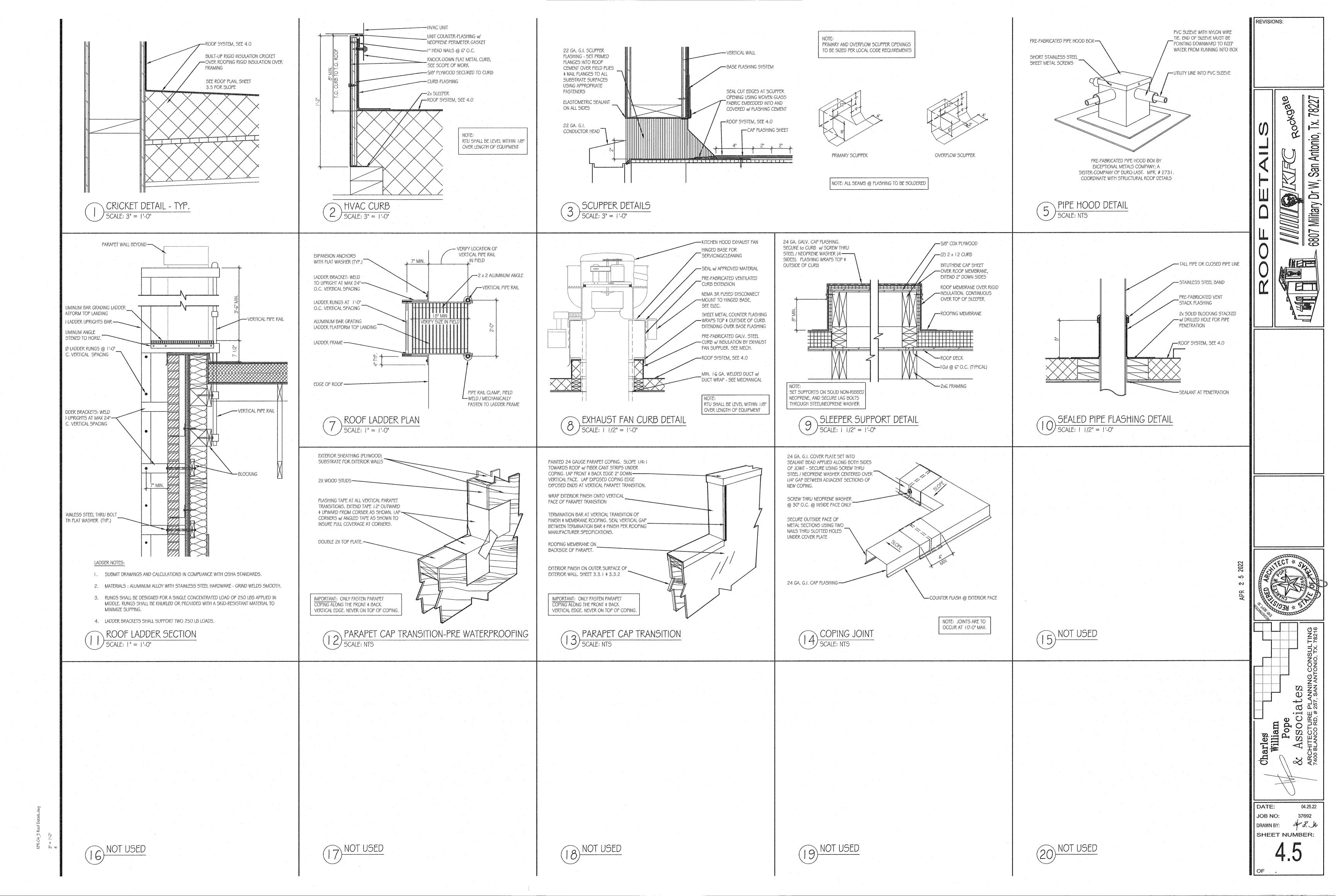
San

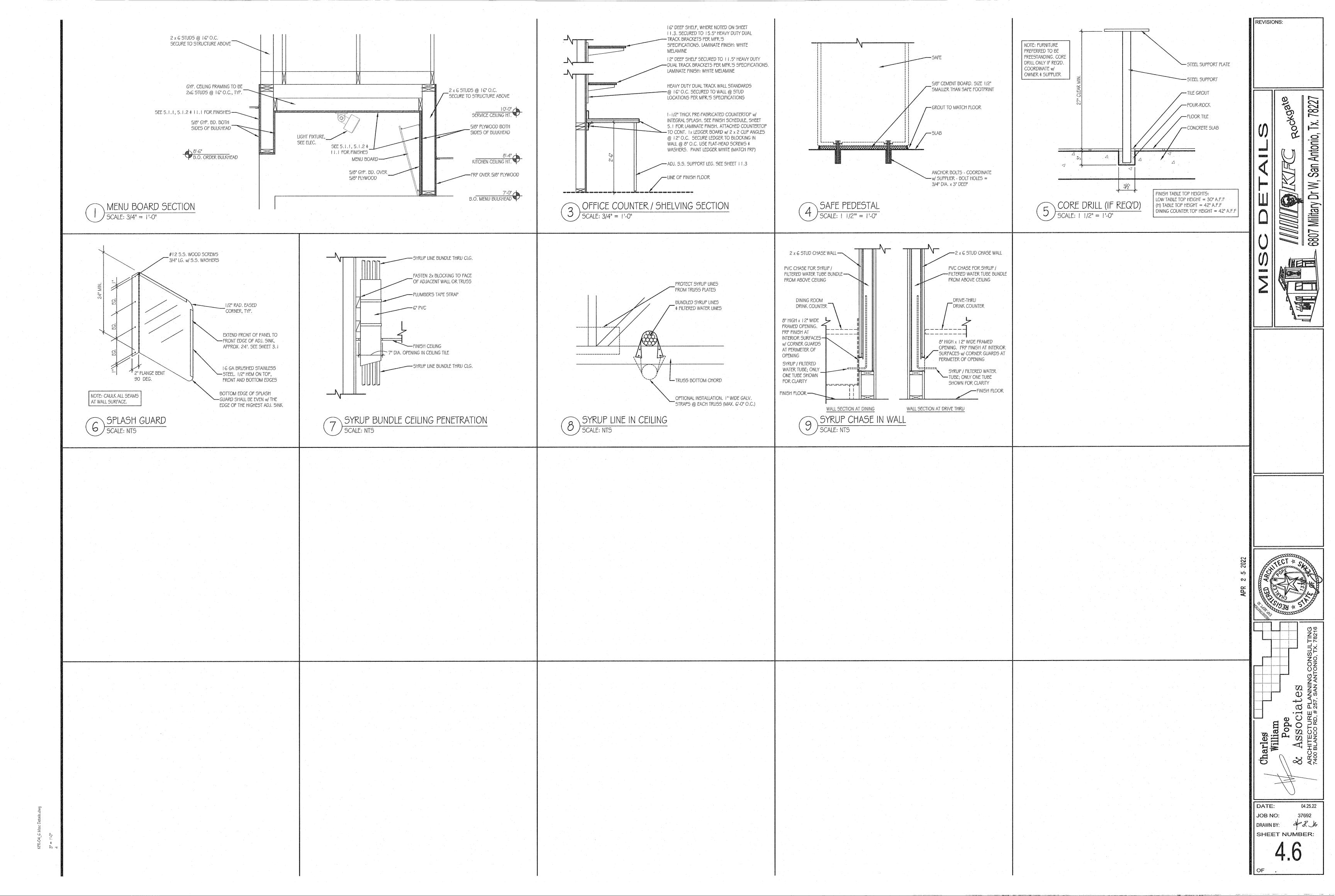


KFR-04_2 Wall Sections.dwg









DOOR SCHEDULE NOTES

LAMINATE DOORS 104, 105, 106 SEE INTERIOR MATERIALS LEGEND ON 5.1.2

2. ALL HM FRAMES SHALL BE 16 GA STEEL U.O.N. B. ALL LOCKS SHALL BE FALCON 6 PIN INTERCHANGEABLE CORE SUPPLIED AND INSTALLED BY THE G.C. ALL EXTERIOR LOCKS SHALL BE PROVIDED WITH CONSTRUCTION CORES. ALL PERMANENT CORES SHALL BE KEYED ALIKE.

1. PERMANENT CORES SHALL BE SHIPPED TO THE RESTAURANT GENERAL MANAGER.

. MOUNT DOOR CLOSERS ON RESTROOM OR KITCHEN SIDE ONLY. . COMPLETE DOOR, FRAME AND HARDWARE PACKAGE SHALL BE ORDERED THRU LOCKNET SECURITY DOORS, PART #DU3G70L52VED:

DOOR SWEEP / BOTTOM (EXTERIOR SIDE), WEATHER-STRIP, KICK PLATE and PANIC HARDWARE.

. STOREFRONT ENTRY DOORS: PROVIDE PUSH / PULL PLATES. IF REQUIRED BY LOCAL CODE, STOREFRONT DOOR PANIC HARDWARE SHALL BE DOR-O-MATIC 2092 RIM PANIC HARDWARE AND EXTERIOR PULLS WITH QUALITY #520 DOOR PULL. FLUSH BOLT ON INACTIVE LEAF, DEAD BOLT ON 16. BOTTOM RAIL OF STOREFRONT DOORS SHALL BY 10" HIGH / MINIMUM per ADA. ACTIVE LEAF. PROVIDE A SIGN W/ I" HIGH LETTERS ON CONTRASTING BACKGROUND NEAR THE LOCKING DEVICE STATING: "THIS DOOR TO REMAIN I UNLOCKED WHEN THIS SPACE IS OCCUPIED"

8. MOUNT KICKPLATE ON PUSH SIDE ONLY.

). SEE COVER SHEET O. I FOR MAXIMUM DOOR OPERATING PRESSURE

10. ADA COMPLIANT ACCESSIBILITY SIGNAGE, INCLUDE BRAILLE AS REQUIRED BY LOCAL JURISDICTION - (1) MEN; (1) WOMEN 11. RESTROOM SIGN REQUIRED. VERIFY PER LOCAL REQUIREMENTS

12. SECURITY DOOR FRAME SHALL BE PAINTED. REFER TO EXTERIOR ELEVATIONS

13. ALUMINUM DOORS, HARDWARE, HINGES, SWEEPS, PUSH / PULL PLATES (VERIFY WITH LOCAL CODE), SHALL BE PROVIDED BY STOREFRONT SYSTEM SUPPLIER / INSTALLER.

14. UNDERCUT DOOR 3/4" (TO ALLOW FOR RETURN AIR PASSAGE).

VISION PANEL (WITH 18 GA. HOLLOW METAL FRAME), CONTINUOUS HINGE, HEAVY DUTY CLOSER, RAIN DRIP, DOOR SWEEP / BOTTOM, BRUSH-TYPE 15. PROVIDE BRUSH TYPE DOOR SWEEP AT ALL EXTERIOR DOOR LOCATIONS. DOOR SWEEP FINISH TO MATCH DOOR FINISH.

17. COORDINATE WALL ROUGH OPENING REQUIREMENTS WITH DOOR MANUFACTURER

18. UTILIZATION OF ALTERNATE TRAFFIC DOOR SHALL BE DETERMINED BY SITE-ADAPT CONSULTANT BASED ON LOCAL EGRESS REQUIREMENTS

HA	RDWARE	SETS							
NO.	TYPE	HINGES	LOCKSET	CLOSER	PUSH/PULL	KICKPLATE	THRESHOLD	WEATHERSTRIP	OTHER
1	ENTRY	VISTA OFFSET PIVOTS (T&B)	MS1850S 628 HOOKBOLT LOCK / ADAMS RITE 987 x 626 MORTISE CYLINDER & 4066 THUMBTURN CYLINDER / ADAMS RITE	1EA 3521 689 CLOSERS / YALE	2 EA PUSH/PULL SET BF15747/ROCKWOOD		1EA 2005AV THRESHOLD /PEMKO	PERIMETER SEAL BY DOOR MFG. 1 EA 345ANB BOTTOM/PEMKO	4089 INDICATOR WITH SIGN / ADAMS RI
2	DOUBLE ENTRY	VISTA OFFSET PIVOTS (T&B)	MS1850S 628 HOOKBOLT LOCK / ADAMS RITE 987 x 626 MORTISE CYLINDER & 4066 THUMBTURN CYLINDER / ADAMS RITE	2EA 3521 689 CLOSERS / YALE	2 EA PUSH/PULL SET BF15747/ROCKWOOD		1EA 2005AV THRESHOLD /PEMKO	PERIMETER SEAL BY DOOR MFG. 2 EA 345ÅNB BOTTOMPEMKO	4089 INDICATOR WITH SIGN / ADAMS RI 2 EA 555 FLUSHBOLTS/ROCKWOOD 1 EA 570 DUST STRIKE/ROCKWOOD
3	TOILET	3EA TA2714 4.5 X 4.5 652 HINGES / McKINNEY	1EA AU 5402 626 PRIVACY SET/YALE	1EA 3501 689 CLOSERS / YALE		1EA K1050 10" X 2" LDW 630 KICKPLATE / ROCKWOOD			1 EA WALL STOP 409 630/RO 1 EA SEAL S88BL/PE
4	KITCHEN	3EA TA2714 4.5 X 4.5 652 HINGES / McKINNEY	1EA D111 626 DEADBOLT/YALE	1EA 3501 689 CLOSERS / YALE	1 EA 70E 32D PUSH PLATE/ROCKWOOD 1 EA PULL PLATE 111 X 70C 32D/ROCKWOOD	1EA K1050 34" X 2" LDW 630 ARMOR PLATE/ ROCKWOOD			3 EA 608 SILENCERS/ROCKWOOD 1 EA 10-336 OH STOP 630/RIXSON
5	EXIT	3EA T4A3386 4.5 X 4.5 NRP 630 HINGES / McKINNEY	1EA 2100 x 632F 630 EXIT/YALE	1EA 3521 689 CLOSER / SARGENT		1EA K1050 34" X 2" LDW 630 ARMOR PLATE/ ROCKWOOD	1EA 2005AT THRESHOLD/PEMKO	1EA 303AV WEATHERSTRIP 1EA SWEEP 345ANB/PEMKO 1EA RAIN DRIP 346C/PEMKO	1EA PEEPHOLE 622 CRWROCKWOOD
6	COOLER								
1AM	NUFACTURE	RS LISTED:	MK - MCKINNEY I.D.CINTERNATIONAL DOOR CLOSERS	SA - SARGENT FALCON	AR - ADAMS RITE	RO - ROCKWOOD	PE-PEMKO	NO-NORTON	NGP-NATIONAL GUARD PRODUC

FINISH SCHEDULE

	ROOM	FLOOR	BASE		WA	LLS			CEILING	}	REMARKS
NO.	ROOM NAME	MATL	MATL	NORTH	EAST	SOUTH	WEST	MATL	FINISH	HEIGHT	REWARKS
101	DINING	t-4	b-4	p-4	sf-3, p-4	sf-3,wt-2, sf-5,p-4	<u>-</u>	cl-4	-	10'-2"	
102	CUSTOMER	t-4	b-4	-		· -	sf-5,p-4, sf-2	cl-4	<u> </u>	10'-2"	BULKHEAD AT 8'-6", PAINT p-6
103	HALL	t-2	b-2	p-8	p-8	p-8	p-8	cl-2	p-6	9'-0"	
104	MEN	t-2	b-2	wt-I	wt-I	wt-I	wt-I	cl-2	p-6	9'-0"	
105	WOMEN	t-4	b-4	wt-I	wt-l	wt-I	wt-l	cl-2	p-6	9'-0"	
106	SERVING	f-1	f-1	wt-2	-	p-4	<u>- · </u>	cl-2	p-6	10'-0"	MENU BOARD BULKHEAD AT 7'-O", PAINT SOFFIT p-6
107	DRIVE-THRU	f1, .	f-1	frp-1	frp-1	frp-1	frp-1	cl-3	-	9'-0"	BULKHEAD AT 8'-O", PAINT SOFFIT p-6
108	KITCHEN	f-1	f-1	frp-1	frp-1	frp-1	frp-1	cl-3	-	8'-4"	
109	OFFICE	f-1	f-I	frp-1	_	_	frp-1	cl-3	-	8'-4"	
110	WASH	f-1	f-1	frp-1	frp-1	frp-1	-	cl-3	-	8'-4"	
111	PREP	f- !	f-1	-	frp-2	frp-2	-	cl-3	-	8'-4"	
112	COOLER	f-1	f- I	-	· - ·		-		-		PRE-FINISHED COOLER
113	FREEZER		-		-	_	_		-	-	PRE-FINISHED FREEZER. FREEZER FLOOR AND BASE FURNISHED BY MANUFACTURER.
114	PRODUCE	f-1	f-1	-	_	_		-		-	PRE-FINISHED COOLER

|GENERAL NOTES

I. INSTALL FRP ON KITCHEN SIDE OF SERVING COUNTER WALL.

2. GALV. STEEL WALL AND CEILING FINISHES BY WIC/WIF BOX MFR.

6. ALL PAINTED SURFACES SHALL HAVE A SMOOTH TEXTURE

5. APPROVED PAINT MANUFACTURERS: BENJAMIN MOORE

REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF TILE AND FRP.

4. FOR FINISH LOCATIONS REFER TO: SHEETS 3.3.1 \$ 3.3.2 - EXTERIOR ELEVATIONS; SHEET 5.3 -FLOOR FINISH PLAN; SHEET 3.2 - REFLECTED CEILING PLAN; SHEETS 3.4, 11.1, 11.2 \$ 11.3 -

INTERIOR ELEVATIONS

GYP. BD. TYPE

LOCATION	TYPE	MFG. / PRODUCT	REMARKS
WALLS WITH TILE	AQUA TOUGH: THICKNESS 5/8"	USG	PROVIDE CEMENT BOARD UP TO 24" A.F.F.
GENERAL LOCATIONS	TYPE 'X', THICKNESS 5/8"	USG	

NOTE: ALL SHEETROCK TO BE TYPE 'X'

CONTACTS

KURT MCCLELLAND

PHONE: 800.635.5147 CELL PH: 502.640.1608

KURT.MCCLELLAND@BENJAMINMOORE.COM

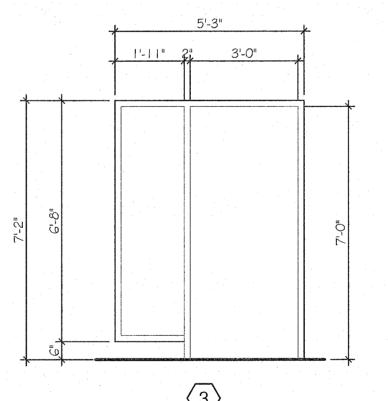
CREATIVE MATERIALS CORPORATION (CMC) DEIRDRE SCHUTH PHONE: 518.713.5384 EMAIL: DSCHUTH@CREATIVEMATERIALSCORP.COM

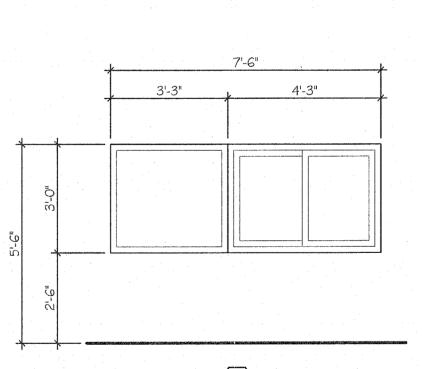
SCOTT STERTMEYER 800.899.8916 EXT. 5759 PHONE: CELL PH: 713.254.9791 SCOTT.STERTMEYER@JOHNSONITE.COM

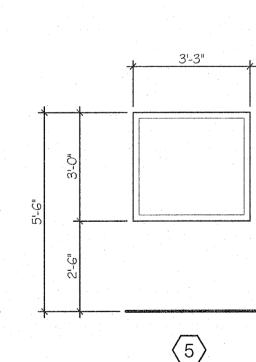
DAN EGBERS PHONE:

330.343.6621 CELL PH: 330.260.7633 EMAIL: DEGBERS@MARLITE.COM

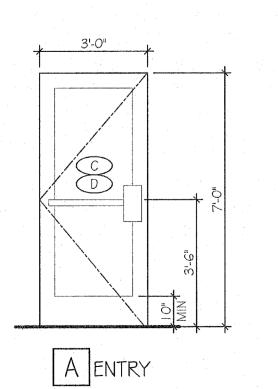
SEE SHEET 4.0 FOR GLASS ENERGY REQUIRMENTS ALL GLASS TO BE TEMPERED

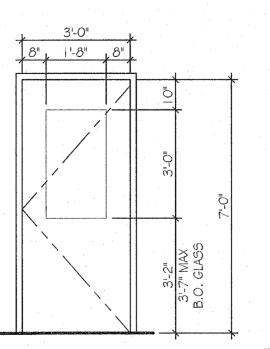




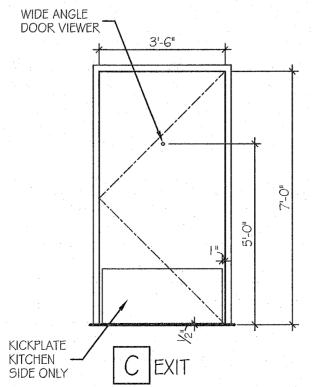


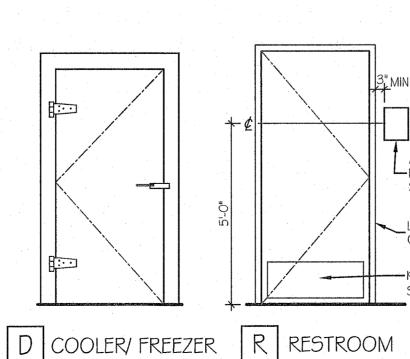
2) WINDOW ELEVATIONS SCALE: 3/8" = 1'-0"

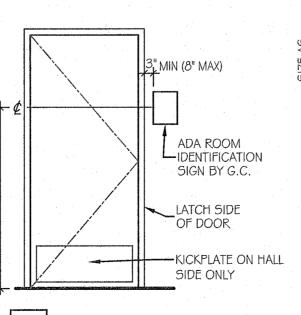


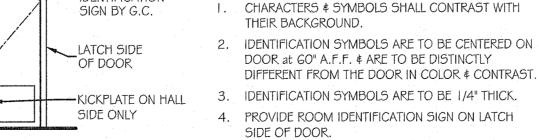


B KITCHEN



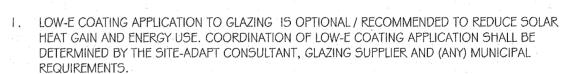






5. LETTERS \$ NUMBERS ON SIGNS SHALL BE RAISED 1/32" MIN, AND SHALL BE A MIN OF 5/8" HIGH \$ SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPAINED BY GRADE 2 BRAILLE.

-1/4" THICK SIGNS



NOT USED.

3. VERIFY ANY SITE-SPECIFIC REQUIREMENTS FOR TEMPERED GLASS (PER LOCAL CODE).

4. OPTIONAL INTERIOR WINDOW SHADES:

ROLL - A - SHADE® 3" BOTTOM FASCIA SYSTEM OYSTER BEIGE 5% LIGHT PASS-THRU METAL PULL STRING

5. VERIFY LOCATION / QUANTITY / EXTENT WITH OWNER

- (A) I" INSULATED GLASS; TYPE GL-3. SEE GENERAL NOTE 2, THIS SHEET.
- (B) I" INSULATED TEMPERED GLASS; TYPE GL-3. SEE GENERAL NOTE 2, THIS SHEET.
- LOW-E COATING. SEE GENERAL NOTE 1, THIS SHEET.

GENERAL NOTES:

- I. DIMENSIONS ON THIS DWG. ARE TO FRAME EDGE. REFER TO SHEETS 3. | \$ TYPICAL BUILDING SECTIONS SHEETS 4.2.1 \$ 4.2.2 FOR ROUGH OPENING DIMENSIONS.
- 2. SEE SCHEDULE FOR GLASS TYPES.
- 3. REFER TO FLOOR PLAN, ELEVATIONS AND WALL SECTIONS FOR ROUGH OPENING DIMENSIONS.
- 4. ALL STOREFRONT MATERIAL AND GLAZING SHALL BE SUPPLIED AND INSTALLED BY G.C. U.O.N.
- 5. ALL STOREFRONT AND DRIVE-THRU WINDOW FRAMES SHALL BE CLEAR ANODIZED (SILVER). DRIVE THRU WINDOW <B-120> SHALL BE CLEAR ANODIZED.
- 6. ALL HARDWARE SHALL BE US32D U.O.N.
- 7. ALL EXTERIOR DOORS SHALL RECEIVE A PEST CONTROL DOOR SWEEP (AT BOTTOM / OUTSIDE FACE OF DOOR). COLOR TO MATCH EXTERIOR DOOR FINISH. SEE DOOR SCHEDULE MISCELLANEOUS ITEM 3, THIS SHEET. SWEEP IS INTEGRAL WITH SECURITY DOOR. SWEEPS PROVIDED BY STOREFRONT SYSTEM SUPPLIER

Pope L
& ASSOCIATES
ARCHITECTURE PLANNING C
7400 BLANCO RD, # 257, SAN ANTC DATE: 04.25.22

REVISIONS:

San

in the second se

JOB NO: DRAWN BY: SHEET NUMBER:

ARTWORK SCHEDULE

TAG	ITEM DESCRIPTION	ELEC
S12a	PYLON SIGN	YES
S25	NAVIGATIONAL SIGN	NO
B7d	DT CLEARANCE BAR	NO
B4e	ORDER CANOPY	YES
S15b	MENU BOARD	YES
S14a	WAYFINDING SIGNS (Welcome)	NO
S14b	WAYFINDING SIGNS (Thank You)	NO
S14c	WAYFINDING SIGNS (Enter)	NO
S14d	WAYFINDING SIGNS (Exit)	NO
S14e	WAYFINDING SIGNS (Do not enter)	NO
S16b	PREVIEW BOARD	YES
S17a	THIRD PARTY SIGN (DELIVERY DRIVER SIGN-if spots provided)	NO
S17b	CURBSIDE SIGN (QUICK PICK-UP PARKING SIGN - if spots provided)	NO

EXTERIO	OR GRAPHICS	
TAG	ITEM DESCRIPTION	ELEC
B1c	STRIPED BANNER PANELS -SIGNAGE BY VENDOR	YES
B3e	DT CANOPY (TRED) -SIGNAGE VENDOR	YES
B9a	QUICK PICK UP CANOPY (RED - DT SIDE) SIGNAGE BY VENDOR	YES
B9b	L-SHAPE FRONT CANOPY (RED) - SIGNAGE BY VENDOR	YES
S3a	KFC LETTERS (RED) - 30" Primary Trademark	YES
S21b	COLONEL FACE @ BANNER PANELS	NO
S26	ORIGINAL RECIPE FEATURE	NO
S27a	ONLINE ORDER PICKUP -canopy face vinyl	NO
S27c	ONLINE PICKUP ARROW EMBLEM - Wall @ pick up entry	NO
S28	11 HERBS & SPICES -stencil	NO
S29	MADE FRESH EVERY DAY- stencil	NO
S30	KENTUCKY FRIED CHICKEN LETTERS	YES
S31a	ALL MY CHICKEN POSTER (W/FRAME)	NO
S31b	ORDER AHEAD POSTER (W/FRAME)	NO
S31c	FAST EASY PICK UP POSTER (W/FRAME)	NO
\$31d	BEST INVENTION POSTER (W/FRAME)	NO

INTERIO	R GRAPHICS	
TAG	ITEM DESCRIPTION	ELEC
G9a	STORE HOURS	NO
G10d	RESTROOM GRAPHICS	NO
G11a	COLONELS'S OFFICE SIGN	NO
G12	RESTROOM MIRROR MESSAGE	NO
G15 a-f	BOH ARTWORK PACKAGE	NO
G30	ONLINE ORDER PICK-UP SIGN	NO
G31	DRINK GRAPHIC	NO
G32a	POSTER FRAME	NO
G33	SKIP THE LINE PICK-UP GRAPHIC	NO
G34	FOOD ART COLLAGE	NO
G35	WELCOME TRANSOM VINYL	NO
G36	COLONEL SIGNATURE (Etched look)VINYL - on ½ wall glass screens	NO

GENERAL NOTES

- 1. INSTALL FRP ON KITCHEN SIDE OF SERVING COUNTER WALL.
- 2. GALV STEEL WALL AND CEILING FINISHES BY WIC / WIF BOX MFR.
- 3. REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF TILE AND FRP.
 4. FOR FINISH LOCATIONS REFER TO:
 SHEETS 3.3.1.3.3.2. EXTERIOR ELEVATIONS
- 4. FOR FINISH LOCATIONS REFER TO:
 SHEETS 3.3.1, 3.3.2 EXTERIOR ELEVATIONS
 SHEET 5.2 FLOOR FINISH PLAN
 SHEET 3.2 REFLECTED CEILING PLAN
 SHEETS 3.4, 11.1, 11.2, 11.3 INTERIOR ELEVATIONS
- 5. APPROVED PAINT MANUFACTURERS: BENJAMIN MOORE.
- 6. ALL PAINTED SURFACES SHALL HAVE A SMOOTH TEXTURE.

INTERIOR FINISH SCHEDULE

FLOOR TILE DESCRIPTION ALTERNATE / NOTE			IILE	PAIN		CEILINGS				
		DESCRIPTION	ALTERNATE / NOTE	DESCRIPTION	ALTERNATE / NOTE		DESCRIF	PTION		
	NOT USE			p-1 MFR.: BENJAMIN MOORE TYPE: AURA EXTERIOR PAINT COLOR: EXOTIC RED 2086-10 LOCATION: EXTERIOR NOTE: LOW LUSTRE (634) p-2 MFR.: BENJAMIN MOORE	MASONRY SUBSTRATE PRIMER: N068 GLAZED TILE SUBSTRATE PRIMER: SXA-110	cl-4	MFR.: ARMSTRONG: FINE FISSURED, # 928; SQU TYPE: 24" x 24" COLOR: GREY STONE GRID: PRELUDE 1 STANDARD DUTY LOAD - GRE NOTE: FLAME SPREAD RATING 0-25, CLASS A			
	MFR.: TYPE: COLOR: SIZE: GROUT:	DALTILE VOLUME 1.0 GLAZED PORCELAIN INTENSITY PORCELAIN 12" X 12" CBP PRISM #540 TRUFFLE	LOCATION: RESTROOMS SEE TILE SUPPLIER CONTACT INFORMATION, THIS SHEET.	TYPE: REGAL SELECT PAINT COLOR: WEDDING VEIL 2125-70 LOCATION: EXTERIOR NOTE: LOW LUSTRE (N401)	MASONRY SUBSTRATE PRIMER: N068 GLAZED TILE SUBSTRATE PRIMER: SXA-110	cl-2	MFR.: GYPSUM BOARD TYPE: 1/2: THICK COLOR: SEE SHEET A7.1 NOTE: OVER 2x FRAMING AT 24" O.C. COORDINATE FRAMING WITH MECHANICA	AL AND ELECTRICAL FIXTURES.		
	MFR.: TYPE: COLOR: SIZE: GROUT:	DALTILE QUEUETREAD QUARRY CHARCOAL OQ96 6" x 6" CBP PRISM #540 TRUFFLE	LOCATION: KITCHEN WALK-IN CHICKEN COOLER WALK-IN VEGGIE COOLER	p-3 MFR.: BENJAMIN MOORE TYPE: AURA EXTERIOR PAINT COLOR: BLACK HORIZON 2132-30 LOCATION: EXTERIOR NOTE: LOW LUSTER (634)		cl-3	MFR.: ACOUSTIFLEX CORP. TYPE: CAPUAL VINYL ROCK #1140, WHITE, WASHASIZE: 24" x 48" x 1/2" GRID: WHITE SUSPENDED GRID w/ALUM. FACE NOTE: FLAME SPREAD RATING 0-25, CLASS A	BLE, NON-PERFORATED		
	MFR.:	DALTILE	LOCATION: DINING	p-4 MFR.: BENJAMIN MOORE TYPE: PRECATALYZED EPOXY			SOLID SU	RFACE		
	TYPE: COLOR: SIZE: GROUT:	MERONA N032PLK840MT GLAZED CERAMIO MR43 GREY, MATTE 8" x 40" x 5/16" THICK CBP PRISM #540 TRUFFLE	REFER TO FINISH FLOOR PLAN FOR PATTERN	COLOR: LaPALOMA GRAY 1551 NOTE: INTERIOR WALLS - EGG SHELL (V342) DOORS & FRAMES - SEMI GLOSS (V341)			DESCRIPTION	ALTERNATE / NOTE		
	MFR.: TYPE: COLOR: -	SILIKAL ACRYLIC RESIN QUARTZ BLEND #1, 50% ORANGE 30% OXIDE RED, 20% BLACK W/ 6" COVE BASE		p-5 MFR.: BENJAMIN MOORE TYPE: PRECATALYZED EPOXY COLOR: ONYX 2133-10 NOTE: INTERIOR WALLS - EGG SHELL (V342) DOORS & FRAMES - SEMI GLOSS (V341)		ss-1 ss-3	NOT USED MFR.: STARON	USED AT WINDOW SILLS AND PARTIAL HEIGH		
		BASE T	ILE	p-6 MFR.: BENJAMIN MOORE TYPE: PRECATALYZED EPOXY COLOR: WEDDING VEIL 2125-70 NOTE: INTERIOR WALLS - EGG SHELL (V342)			COLOR: ONYX ON095 FINISH: MATTE/SATIN FINISH THICKNESS: 3/4" THICK	WALL CAPS.		
		DESCRIPTION	ALTERNATE / NOTE	DOORS & FRAMES - SEMI GLOSS (V341)						
1 .	MFR.: TYPE: COLOR: SIZE:	DALTILE MERONA GLAZED CERAMIC #N032PLK840N MR43 GREY, MATTE 8" x 40" x 5/16"	LOCATION: DINING OUT TILE TO 6" H. FOR BASE. PLACE CUT EDGE OF TILE TOWARDS FLOOR	p-7 MFR.: BENJAMIN MOORE TYPE: AURA EXTERIOR PAINT COLOR: ONYX 2133-10 LOCATION: EXTERIOR NOTE: LOW LUSTRE (634)						
2	MFR.: TYPE:	DALTILE COLOR WHEEL LINEAR - COVE BASE	LOCATION: RESTROOMS	p-8 MFR.: BENJAMIN MOORE TYPE: AURA INTERIOR PAINT COLOR: EXOTIC RED 2086-10			BRIC	K		
	COLOR: SIZE: GROUT:	ARCTIC WHITE 0190 (GLOSS) 4" x 12" x 3/8" CBP PRISM #546 CAPE GRAY	SEE TILE SUPPLIER CONTACT INFORMATION, THIS SHEET.	LOCATION: HALLWAY - EGG SHELL (V342)			DESCRIPTION	ALTERNATE / NOTE		
	MFR.: TYPE: COLOR: SIZE: GROUT:	DALTILE SANITARY COVE MATCH (t-3) FLOOR TILE 5" x 6" CBP PRISM #546 CAPE GRAY	LOCATION: KITCHEN WALK-IN CHICKEN COOLER WALK-IN VEGGIE COOLER			br-1	MFR.: THE BELDEN BRICK COMPANY SERIES: MODULAR FACE BRICK c216 TYPE: FBX COLOR: BLACK DIAMOND VELOUR SIZE: STANDARD FINISH: VELOUR PATTERN: STANDARD RUNNING BOND	EXTERIOR APPLICATION		
-	MFR.: TYPE:	JOHNSONITE MILLWORK WALL BASE MANDALAY	LOCATION: DINING ROOM BASE	PLASTIC LA	MINATE	br-2	MORTAR: LATICRETE PREMIUM POINTING COLOR #45 RAVEN MFR.: THE BELDEN BRICK COMPANY	EVERTION APPLICATION		
	COLOR: SIZE:	40 BLACK 6" TOELESS375" w X 6" h		DESCRIPTION	ALTERNATE / NOTE		SERIES: MODULAR FACE BRICK c216 TYPE: FBX COLOR: ALASKA WHITE VELOUR SIZE: STANDARD FINISH: VELOUR	EXTERIOR APPLICATION		
		WALL T	ILE F	ol-1 MFR.: TBD TYPE: HORIZONTAL GRADE LAMINATE COLOR: TO MATCH BM ONYX 2133-10			PATTERN: STANDARD RUNNING BOND MORTAR: SM200 BRILLANT WHITE PORTLAND CEMENT + LIME, TYPE N			
		DESCRIPTION	ALTERNATE / NOTE				WALL CO\	/ERING		
1	MFR.: TYPE: COLOR: SIZE: GROUT:	COLOR WHEEL LINEAR (GLAZED) ARCTIC WHITE 0190 MATTE 4" x 8" x 3/8"	LOCATION: RESTROOMS SEE TILE SUPPLIER CONTACT INFORMATION, THIS SHEET.				DESCRIPTION	ALTERNATE / NOTE		
-2	MFR.:	DALTILE	REFER TO INTERIOR ELEVATIONS FOR PATTERN. LOCATION: MENU BOARD BULKHEAD AND SERVICE	META	NL	trp-1	MFR.: MARLITE TYPE: FIBERGLASS REINFORCED PANEL COLOR: FP-100 WHITE			
	TYPE: COLOR: SIZE: GROUT:	COLOR WHEEL LINEAR DESERT GREY X714 (MATTE)	COUNTER WALLS. REFER TO INTERIOR ELEVATIONS	DESCRIPTION	ALTERNATE / NOTE	fro 0	LOCATION: KITCHEN NOTE: - MFR.: MARLITE			
-				m-1 MFR.: TBD MATERIAL: METAL FINISH: TO MATCH BM EXOTIC RED 2086-10 m-2 MFR.: TBD		frp-2	TYPE: FIBERGLASS REINFORCED PANEL COLOR: FP-100 WHITE LOCATION: KITCHEN (BREADING TABLE AREA ONLY) NOTE: NO COLOR VARIATIONS ACCEPTED			
				MATERIAL: METAL FINISH: TO MATCH BM WEDDING VEIL 2125-70			CONTACT	NFORMATION		
		SPECIAL F	INISH				COMPANY / CONTACT	COMPANY / CONTACT		
		DESCRIPTION	ALTERNATE / NOTE			KURT	AMIN MOORE MCCLELLAND	BELDEN BRICK CO DIVISION 4 INC.		
	MFR.: TYPE: COLOR: FINISH: CONTENT		www.jameshardie.com HARDIE PANEL VERTICAL SIDING - SMOOTH			PHON CELL I EMAIL	E: 800.635.5147 PH: 502.640.1608	CONTACT: JIM STRADLEY PHONE: 513-396-7625 E-MAIL: STRADS@DIVISION4.COM MARLITE		
2	MFR.: TYPE: COLOR: SPECIALT	FAUX BRICK WALL MATERIAL	ORDERED BY DECOR SUPPLIER INSTALLED BY GENERAL CONTRACTOR			SCOT PHON CELL EMAIL	PH: 713.254.9791	CONTACT: DAN EGBERS PHONE: 330.343.6621 CELL PH: 330.260.7633 EMAIL: DEGBERS@MARLITE.COM		
3	MFR.: TYPE: COLOR:		ORDERED BY DECOR SUPPLIER INSTALLED BY GENERAL CONTRACTOR				ACT: TIM PHOENIX PH: 802.343.3656			
5	MFR.: TYPE: COLOR:	MILLWORK VENDOR BOARD & BATTEN WAINSCOT WHITE								

SHEET NUMBER:

- A. REFER TO SHT 5.1.1 & 5.1.2 FOR FINISHES.
- B. TILE JOINTS (U.O.N.): 1. QUARRY FLOOR TILE: 1/4" 2. GLAZED WALL TILE: 1/8"
- 3. BASE, TRIM AND ACCESSORIES : MATCH ADJOINING TILE UNITS C. TILE INSTALLATIONS REQUIRE MANUFACTURERS STANDARD MOLDED CORNERS AT BOTH INSIDE AND OUTSIDE CORNERS.
- D. ALL BASE TILE SHALL BE SANITARY COVE STYLE WITH 3/8" MIN RADIUS UNLESS NOTED OTHERWISE.
- E. PROVIDE CLEAR SILICONE CAULK WHERE FRP STOPS AT TOP OF COVE
- F. TILE CHIPPING AROUND CORE DRILL HOLES FOR SEATING FIXTURE WILL NOT BE ACCEPTED.
- 1 6" SANITARY COVE BASE (BACK OF HOUSE). SEE DETAILS 6, 11/4.4.
- 2 PROVIDE FLOOR FINISH INSIDE WALK-IN COOLER & STORAGE. FLOAT FLOOR IN COOLERS TO DRAIN TO KITCHEN. COORDINATE WITH WALK-IN WALL CONFIGURATION.
- 3 PLATFORM FOR SAFE. SEE DETAIL 4/4.6.
- 4 FLOOR FINISH TRANSITION FROM DINING ROOM TO KITCHEN SHALL BE FLUSH.
- 5 CUT / SLOPE FLOOR TO DRAIN.
- 6 METAL BASE IN FREEZER; SEE SCOPE OF WORK AND DETAIL 11/4.4
- 7 REFER TO STRUCTURAL DRAWINGS FOR CONCRETE FLOOR SLOPES AROUND FLOOR DRAINS / SLOT DRAIN.
- 8 INSTALL FLOOR FINISH TO MEET COOLER & STORAGE FLOORS FLUSH. COORDINATE WITH COOLER & STORAGE THRESHOLD INSTALLATION.
- 9 SANITARY COVE TILE BASE (RESTROOMS). SEE DETAIL 7/4.4.
- 10 FACTORY FLOOR FINISH (GALV. STL.) w/ INTEGRAL COVE BASE AND BUILT-IN INTERNAL RAMP IN WALK-IN FREEZER.
- 11 DIMENSION STRING REPRESENTS APPROX. LINE OF FoH -to- BoH FLOOR TILE
- 12 6" COVE MILLWORK BASE (DINING ROOM). SEE DETAILS 8, 10/4.4

- 13 MOP SINK LOCATION.
- (14) OMIT TILE AT FLOOR SINK / HUB DRAIN LOCATIONS.
- 15) REDGUARD WATERPROOFING MEMBRANE, TYPICAL AT BASE OF INTERIOR FOH PARTITION WALLS; ROLLER, TROWEL OR SPRAY APPLIED. COORDINATE INSTALLATION WITH FLOOR / BASE TILE MFR.

9" HORIZONTAL APPLICATION / 9" VERTICAL APPLICATION; UNLESS NOTED OTHERWISE.

REVISIONS:

Antonio,

San

Military Dr

ASSOCIALES
CHITECTURE PLANNING CON
0 BLANCO RD, # 257, SAN ANTONIC

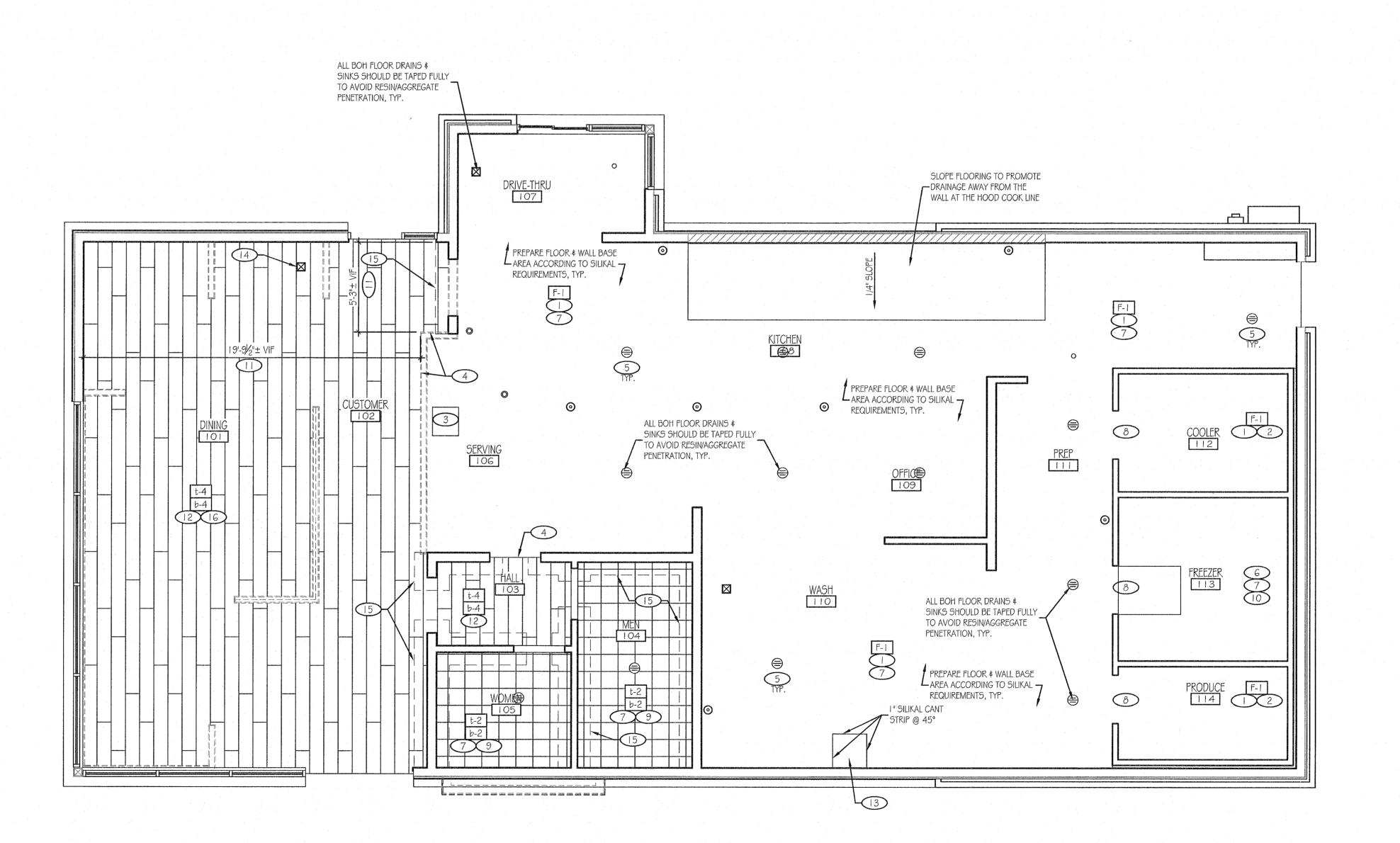
Charles

DATE: JOB NO:

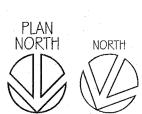
DRAWN BY:

SHEET NUMBER:

- A. ELIMINATE VERTICAL APPLICATION AT COOLER / FREEZER PANEL WALLS AND MOP SINK LOCATIONS; i.e., NO CERAMIC BASE TILE and/or NO FRP WALL FINISH. SEE SHEETS A8.1, A8.2 and A8.3.
- B. TERMINATE VERTICAL APPLICATION 6" ABOVE SLAB AT DINING ROOM SIDE OF APPLICABLE PARTITION WALLS; i.e., NO WAINSCOT WALL FINISH and/or NO WALL TILE FINISH. SEE SHEET A8.0.
- CLIP DOWN LOCATIONS FOR SEATING / DECOR PACKAGE PRIOR TO PERFORMING WORK. SEE SHEET 10.1
- 17 NOT USED.



FINISH FLOOR PLAN
SCALE: 1/4" = 1'-0"



WOOD FRAMING GENERAL NOTES:

- WF-1 ALL FRAMING SHALL CONSIST OF #2 DENSE SOUTHERN YELLOW PINE, OR BETTER HAVING A MODULUS OF ELASTICITY OF 1,600,000 PSI, AND AN ALLOWABLE SHEAR STRESS OF 175 PSI, UNLESS INDICATED OTHERWISE.
- WF-2 ALL LUMBER SHALL BE GRADE STAMPED.
- WF-3 PRE-FABRICATED WOOD TRUSSED RAFTERS SHALL BE DESIGNED FOR THE FOLLOWING LOADS:
 - ROOF LIVE LOAD 20 PSF WIND UPLIFT (NET)(EXCLUDING JOIST WT.) 11 PSF GROUND SNOW LOAD 5 PSF
- WF-4 ALL WOOD SILLS ON CONCRETE SHALL BE FOUNDATION GRADE REDWOOD OR WOLMANIZED DOUGLAS FIR. NOTE ALL CUTS, NOTCHES, AND DRILL HOLES IN PRESSURE TREATED WOOD SHALL BE RETREATED IN THE FIELD ACCORDING TO AWPA M4 REQUIREMENTS.
- WF-5 PLYWOOD ROOF SHEATHING SHALL BE 3/4" STRUCTURAL GRADE I CD (48/24) OVER WOOD TRUSSED RAFTERS. PROVIDE ADEQUATE BLOCKING, TONGUE AND GROOVED EDGES OR PLYCLIPS. USE 10d NAILS SPACED @ 6" o. c. AT END JUINTS OF PANELS AND AT WALL CONNECTIONS. FIELD NAILING OF INTERMEDIATE SUPPORTS SHALL BE @ 12" o.c.
- WF-6 WALL SHEATHING AS SHOWN SHALL BE 1/2" STRUCTURAL GRADE I CD (CDX IN EXTERNAL SIDE), SECURE WITH 10d NAILS AT 6" o.c. AT EDGE SUPPORT, AND 12" o.c. AT INTERIOR SUPPORT, REFER TO SHEAR WALL SCHEDULE FOR ATTACHMENT AT SHEAR WALLS.
- WP-7 PLACE PLYWOOD PANELS WITH LONG DIMENSION RUNNING PERPENDICULAR TO SUPPORTING MEMBERS WITH END JOINTS STAGGERED 1/2 PANEL.
- WF-8 LAMINATED VENEER LUMBER
 - LAMINATED VENEER LUMBER CALLED OUT ON THE PLANS ARE TRADEMARK MICRO-LAM AS PRODUCED BY REDBUILT (FORMERLY TRUS - JOIST), LAMINATED VENEER LUMBER PRODUCED BY OTHER MANUFACTURERS MAY BE USED PROVIDED THE SAME RATED STRESSES AND MEMBER SIZES EQUAL DR EXCEED THOSE SHOWN ON THE PLANS, AND PRIOR APPROVAL IS GIVEN BY THE ARCHITECT,
 - ALL LAMINATED VENEER LUMBER SHALL BE DESIGNED AND MANUFACTURED TO THE STANDARDS FORTH IN THE ANSI/AF & PA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (NDS) AND IBC (2018).
 - ALL VENEERS SHALL BE DOUGLAS-FIR OF 1/10" OR 1/8" THICKNESS AND SHALL BE LAMINATED IN A CONTINUOUS PRESS WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER.
 - ALLOWABLE UNIT STRESSES REQUIRED FOR DRY CONDITIONS OF USE FOR VENEER LAMINATED LUMBER SHALL BE AS FOLLOWS:
 - COMPRESSION PARALLEL TO GRAIN..... 2460 PSI HORIZONTAL SHEAR.....285 PSI COMPRESSION PERPENDICULAR TO GRAIN...750 PSI
 - E) LAMINATED VENEER LUMBER MEMBER SIZES SHOWN ARE NET; OTHER MEMBER SIZES ARE NOMINAL.
- WF-9 PROVIDE A SINGLE PLATE AT THE BOTTOM (SEE WF-4) AND A DOUBLE PLATE AT THE TOP OF ALL STUD WALLS. INTERIOR SILL PLATES SHALL BE BOLTED OR SHOT TO FOUNDATION AT A MAXIMUM OF 48" SPACINGS, ALL EXTERIOR SILL PLATES AND SHEAR WALL SILL PLATES SHALL BE BOLTED. ALL SILL BOLTS SHALL BE 5/8" DIA. X 18" A307 AT 4'-0" o.c., UNLESS OTHERWISE NOTED. THERE SHALL BE ONE BOLT WITHIN 9" OF EACH END OF EACH PIECE OF SILL UNLESS NOTED OTHERWISE,
- WF-10 STUDS SHALL BE DOUBLED AT ALL ANGLES, CORNERS, BEAM SUPPORTS, AND AROUND ALL OPENINGS.
- WF-11 HEADER SCHEDULE
 - A) 2 X 4 WALL SCHEDULE (LOAD BEARING)

MAXIMUM SPAN	HEAD	ER	SI	ZE	JACK	STUDS	
0' - 4'	2 -	2	X	6		1	
4' - 6'	2 -	2	Χ	10		2	
6′ – 8′	2 -	2	X	12		2	

B) 2 X 6 WALL SCHEDULE (LOAD BEARING)

MAXIMUM SPAN	HEADER SIZE	JACK STUDS	
0' - 4'	3 - 2 X 6	1	
4' - 6'	3 - 2 X 10	$\bar{1}$	
6′ – 8′	3 - 2 X 12	1	

- SEE ROOF PLAN FOR EXCEPTIONS. 2. ALL HEADERS SHALL HAVE A 1/2" SPACER (FULL LENGTH) BETWEEN PLYS. HEADERS SHALL BE NAILED TOGETHER WITH 8D NAILS AT 12" D.C. STAGGERED
- FULL LENGTH OF BEAM. 3. AT NON-LOAD BEARING WALLS, PROVIDE 2 - 2 X 4 AT OPENINGS LESS THAN 6'-0' AND 2 - 2 X 6 AT
- WF-12 FASTEN ALL WOOD MEMBERS WITH COMMON NAILS ACCORDING TO THE INTERNATIONAL BUILDING CODE SCHEDULE UNLESS NOTED OTHERWISE.

OPENINGS LESS THAN 8'-0".

- WF-13 TIMBER CONNECTORS CALLED FOR ON THE DRAWINGS ARE AS MANUFACTURED BY THE SIMPSON COMPANY. CONNECTORS BY OTHER MANUFACTURERS MAY BE USED IF THE LOAD CAPACITY IS EQUAL TO OR GREATER THAN THE CONNECTOR SPECIFIED. USE MANUFACTURER'S FURNISHED NAILS AND BOLTS.
- WF-14 MINIMUM BEARING FOR TRUSSED RAFTERS: 3-1/2".

UNDERFLOOR FILL NOTES:

- UF-11 EMPLOY AN INDEPENDENT TESTING LABORATORY TO TAKE 3 DENSITY TESTS OF RECOMPACTED SCARIFIED MATERIAL AND 3 DENSITY TESTS OF EACH LIFT OF FILL,
- UF-12 AFTER FOUNDATION IS PLACED AND CURED, IN ALL AREAS NOT BEING COVERED WITH PAVEMENT OR FLATWORK, REMOVE SELECT FILL TO BOTTOM OF CONCRETE BEAM AND PLACE A 2 FOOT (2') DEEP CLAY CAP CONSISTING OF A CLEAN CLAY SOIL (70% BY WEIGHT PASSING THE NO. 200 SIEVE AND NO MORE THAN 15% BY WEIGHT RETAINED IN THE NO. 4 SIEVE) WITH A PLASTICITY INDEX OF 20 TO 40. MOISTURE CONDITION THIS CLAY CAP TO BETWEEN OPTIMUM AND PLUS FOUR (+4) PERCENTAGE OF THE OPTIMUM MOISTURE CONTENT, AND COMPACT TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY IN ACCURDANCE WITH ASTM D698.
- UF-13 BACKFILL UTILITY TRENCHES WITH ON-SITE CLAYS TO SEAL OFF SURFACE WATER INFILTRATION, CONSTRUCT A FULL DEPTH PLUG OF CLAY SOIL IN THE TRENCH AT THE EDGE OF THE BUILDING PAD, AT LEAST 5 FEET (5') OUT FROM THE FACE OF THE BUILDING, THE PLUG SHOULD BE A MINIMUM OF TWO FEET (2') THICK, HAVE A PI OF 12-25, MOISTURE CONDITIONED AT OR ABOVE OPTIMUM; AND COMPACTED TO 8 INCH (8") MAXIMUM LIFTS TO AT LEAST 95 PERCENT OF ASTM D698 MAXIMUM DENSITY OR ALTERNATELY BE FLOWABLE FILL ALSO KNOWN AS CONTROLLED LOW-STRENGTH MATERIAL (CLSM). MIX IS ADJUSTED TO ACHIEVE PROPER SUSPENSION AND OPTIMUM FLOWABILITY WITH A MINIMUM DENSITY OF 125 PCF AND A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF

2018 IBC CHAPTER 17 SPECIAL INSPECTIONS:

- REFER TO SPECIFICATION SECTION 01410 STRUCTURAL QUALITY CONTROL AND TESTING.
- THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (RDPIRC) FOR THIS PROJECT IS THE ARCHITECT. SUBMIT ALL SPECIAL INSPECTION REPORTS DIRECTLY TO THE ROPIRC FOR REVIEW, ALSO SUBMIT THE STRUCTURALLY RELATED SPECIAL INSPECTION REPORTS TO THE STRUCTURAL ENGINEER FOR REVIEW.
- SP-3 THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TESTING, INSPECTIONS AND NOTIFYING THE ARCHITECT / ENGINEER AND SPECIAL INSPECTORS OF WORK READY FOR INSPECTION, THE GENERAL CONTRACTOR MUST PROVIDE ACCESS TO AND MEANS FOR PROPER INSPECTION OF SUCH WORK.
- SP-4 SPECIAL INSPECTIONS REQUIRED FOR THIS PROJECT:
 - SOILS (SLAB-ON-GRADE) IBC 1705.6 & TABLE 1705, 6 B. CONCRETE CONSTRUCTION - IBC 1705.3 & TABLE
 - 1705, 3 WOOD CONSTRUCTION - IBC 1705.5 WOOD TRUSSES - IBC 1704, 2, 5
 - SECTION 1704, 2, 5 REQUIRES TRUSS FABRICATOR TO EITHER BE REGISTERED AND APPROVED IN ACCURDANCE WITH SECTION 1704, 2, 5, 1 OR SPECIAL INSPECTIONS OF THE FABRICATED ITEMS SHALL BE PERFORMED DURING FABRICATION, TESTING LABORATORY SHALL CONFIRM WHICH APPLIES PRIOR TO FABRICATION, RDPIRC SHALL INFORM ALL AFFECTED PARTIES AT UNSET OF PROJECT.
- SP-5 THE SPECIAL INSPECTIONS FOR THIS PROJECT WILL BE PROVIDED BY A FIRM DESIGNATED BY THE ARCHITECT.
- THE RDPIRC IS RESPONSIBLE TO PREPARE, SIGN AND SUBMIT THE "FINAL REPORT OF REQUIRED INSPECTIONS" FOR SUBMITTAL TO THE CITY OF SAN ANTONIO AFTER THE GENERAL CONTRACTOR COMPLETES HIS WORK ACCORDING TO THE APPROVED PLANS.

PREFABRICATED WOOD TRUSSED RAFTER NOTES:

- PT-1 DESIGN OF FABRICATED WOOD TRUSSED RAFTERS SHALL CONFORM TO ANSI/TPI-1 "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION" (TRUSS PLATE INSTITUTE), AND THE INTERNATIONAL BUILDING CODE (IBC-2018). STEEL GUSSET PLATES SHALL BE MINIMUM 20 GAUGE, ASTM A-446 GRADE A, APPROVED BY ICBO.
- PT-2 ROOF TRUSS DEPTHS ARE DEFINED IN DETAILS, REFER TO PLAN AND DETAILS FOR BEARING ELEVATIONS AND SLOPE OF ROOF.
- PT-3 TRUSS DESIGNS AND LAYOUTS SHALL BE SIGNED AND SEALED BY A TEXAS LICENSED PROFESSIONAL ENGINEER AND SUBMITTED TO ARCHITECT/ENGINEER FOR APPROVAL.
- PT-4 TRUSS FABRICATION SHALL COMPLY WITH TPI QUALITY CONTROL STANDARDS (CHAPTER 3 OF ANSI/TPI-1). TRUSS PLANT SHALL BE INSPECTED BY THIRD PARTY CERTIFIED AGENCY IN ACCURDANCE WITH IBC SECTION 1704, 2, 5, 1, REFER TO NOTE SP-4D.
- PT-5 TRUSSES SHALL BE ERECTED, BRACED, AND BLOCKED IN ACCURDANCE WITH "BCSI-GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" AND INSTRUCTIONS OF ENGINEER SIGNING/SEALING SHOP DRAWINGS (MORE STRINGENT CONTROLS).
- PT-6 TRUSS LAYOUT IS SUGGESTED, HOWEVER, LOCATION OF TRUSS GIRDERS AND OTHER SPECIAL TRUSSES SUPPORTING MECHANICAL EQUIPMENT, SCREENS, TOWERS, ETC. CANNOT BE MOVED FROM WHERE SHOWN ON PLAN.
- PT-7 MINIMUM PROPERTIES: CHORD LUMBER MINIMUM PROPERTIES: WEB LUMBER ALLOWABLE BENDING STRESS..... 850 PSI MODULUS OF ELASTICITY..... 1,450,000 PSI 19% AT TIME OF FABRICATION

GENERAL NOTES CONT.

- GN-14 REFER TO SPECIFICATIONS FOR SUBMITTAL REQUIRE-MENTS. AS A MINIMUM THE FOLLOWING IS REQUIRED.
 - CONCRETE MIX DESIGNS: SECTION 03 30 01 2. SHOP DRAWINGS (REF. TO SPECIFICATION SECTION) * REINFORCING STEEL PLACEMENT AND CUT SHEETS, * FABRICATED WOOD TRUSSED RAFTERS 06 19 50
- GN-15 ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO THE STRUCTURE OR ANY PART OF THE STRUCTURE DETAILED ON THESE DRAWINGS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW, SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN-WRITING" UNLESS IT IS CLEARLY NOTED THAT CHANGES ARE BEING SUGGESTED.
- GN-16 PRINCIPAL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS, CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, CURBS, INSERTS AND OTHER OPENINGS NOT SHOWN. THE CONTRACTOR SHALL PROVIDE FOR ALL OPENINGS, WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT. SIZE AND LOCATION OF ALL OPENINGS SHALL BE VERIFIED BY THE CONTRACTOR, ANY DEVIATION FROM DPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR APPROVAL PRIOR TO CONSTRUCTION.
- GN-17 THE STRUCTURAL DRAWINGS ARE NOT TO BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS, OR FIT OF MATERIALS.
- GN-18 THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKMEN AND OTHER PERSONS DURING CONSTRUCTION,
- GN-19 THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITION WHICH, IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS IN THE STRUCTURE.
- GN-20 CONSTRUCTION MATERIALS SHALL NOT BE STORED ON ROOFS IN EXCESS OF THE DESIGN LIVE LOADS WHICH ARE INDICATED ON THE DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENFORCE THIS REQUIREMENT. IMPACT SHALL BE AVOIDED WHEN PLACING MATERIALS ON ROOF.
- GN-21 THE STRUCTURAL DRAWINGS FOR THIS PROJECT ARE NOT INTENDED FOR USE AS ERECTION DRAWINGS. THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUB-CONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES HIMSELF TO ANY AND ALL EXPENSES, REAL OR IMPLIED, ARISING FROM SUCH ACCEPTANCE. THE CONTRACTOR SHALL MAINTAIN THESE DRAWINGS AT A CURRENT STATUS, INCLUDING ALL ADDENDA AND REVISIONS.

UNDERFLOOR FILL NOTES:

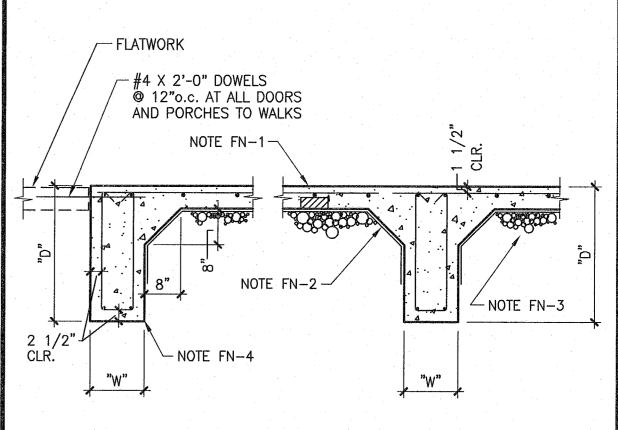
- BEFORE ANY CONSTRUCTION IS BEGUN, PERFORM ROUGH GRADING AND CUT SWALES SO THAT GROUNDS WILL DRAIN AWAY FROM THE BUILDING. MAINTAIN DRAINAGE DURING ALL PHASES OF CONSTRUCTION SO THAT STORM WATER WILL BE CONDUCTED AWAY FROM THE BUILDING. KEEP EXCAVATIONS PUMPED FREE OF STORM WATER AT ALL
- PRECAUTIONS SHALL BE TAKEN TO PROTECT OPEN EXCA-VATIONS FROM EXCESSIVE LOSS OR GAIN IN NATURAL MOISTURE LEVEL PRIOR TO PLACEMENT OF BASE MATERIAL. KEEP MOIST DURING DRY WEATHER AND KEEP STORM WATER PUMPED OUT, INCLUDING NIGHTS AND WEEKENDS, DURING RAINS.
- UF-3 THE FOLLOWING NOTES ARE A SUMMARY OF THE OPTIONS CHOSEN FROM RECOMMENDATIONS FOUND IN THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY TERRACON CONSULTANTS, INC. (TERRACON PROJECT NO. 90215227) DATED 10/26/2021.
- UF-4 STRIP THE BUILDING AREA INCLUDING ADJACENT FLATWORK PLUS 3'-0" OF ALL ORGANIC MATERIALS, ROOTS, PAVING, AND ALL DELETERIOUS MATERIAL. EXCAVATE AND REMOVE MINIMUM SIX FEET (6') OF ON-
- UF-5 THE LIMITS OF SUBEXCAVATION SHALL EXTEND A MINIMUM OF THREE FEET (3') BEYOND THE HORIZONTAL LIMITS OF THE FOUNDATION MEASURED AT THE BASE OF THE SUBEXCAVATION PRIOR TO SLOPING.
- UF-6 AFTER EXCAVATING, PROOF-ROLL SUBGRADE WITH A TANDEM AXLE DUMP TRUCK OR 15-TON ROLLER, GEOTECHNICAL ENGINEER SHALL DBSERVE PROOF-ROLLING AND PROVIDE WRITTEN CONFIRMATION OF ACCEPTABLE SUBGRADE.
- UF-7 SCARIFY BOTTOM OF EXCAVATION TO A MINIMUM OF 6" AND RECOMPACT TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY BETWEEN O AND +4 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY STANDARD PROCTOR ASTM D698. FIELD DENSITY TO BE DETERMINED IN ACCURDANCE WITH ASTM D1557 OR D698.
- UF-8 BUILD UP TO WITHIN SIX INCHES (6") OF UNDERSIDE OF THE SLAB WITH SELECT FILL (SEE UF-9) PLACED IN 8" HORIZONTAL LIFTS AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY BETWEEN -2 AND +3 PERCENTAGE POINTS OF OPTIMUM MOISTURE AS DETERMINED BY ASTM D698, COMPACTIVE EFFORT SHALL EXTEND UP THE SLOPED EDGES OF THE EXCAVATION. FINAL SIX INCHES OF FILL TO BE CRUSHED LIMESTONE BASE MATERIAL WITH A MAXIMUM AGGREGATE SIZE OF 3 INCHES (3") AND WITH A PLASTICITY INDEX BETWEEN 5 AND 20.
- UF-9 SELECT FILL TO CONSIST OF USCS CLASSIFIED TYPE CL AND GC WITH LIQUID LIMIT (LL) LESS THAN OR EQUAL TO 40 AND A PI BETWEEN 7 AND 20; WITH MAXIMUM AGGREGATE SIZE OF THREE INCHES (3").
 - NOTE: FILL MATERIALS MUST BE ABLE TO MAINTAIN TRENCH PROFILES DURING RAINS.
- UF-10 PERFORM ALL EARTHWORK DESCRIBED ABOVE BEFORE TRENCHING FOR GRADE BEAMS OR MECHANICAL LINES.

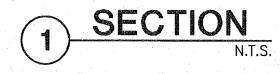
GENERAL NOTES:

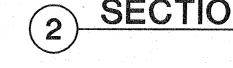
- GN-1 THIS STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (IBC) (2018) AS ADOPTED BY THE CITY OF SAN ANTONIO, TEXAS & APPLICABLE INDUSTRY STANDARDS (AISC, ACI, ETC.).
- GN-2 THE DESIGN GRAVITY LOADS ARE:
 - SUPERIMPOSED DEAD LOADS MECHANICAL, CEILING, SPRINKLERS, ETC. . . 20 PSF
 - LIVE LOADS MECHANICAL EQUIPMENT. . AS INDICATED ON PLANS
 - GROUND SNOW LOAD 5 PSF
 - WIND LOAD: (ASCE 7-16 & IBC 2018 LOCATION SPECIFIC AS PER NOTE 6 FIG. 1609, 3(1) OF IBC AND IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT.) RISK CATEGORY (TABLE 1604.5-IBC) - II
 - EXPOSURE (SECT. 1609, 4, 3-IBC) B BASIC DESIGN WIND SPEED (FIG. 1609, 3, 1-IBC) ALLOWABLE STRESS DESIGN WIND SPEED (TABLE 1609. 3. 1-IBC) Vasd = 84 MPH
 - SEISMIC DESIGN CRITERIA (PER IBC 2018) A. SEISMIC RISK CATEGORY = II
 - B. SEISMIC SITE CLASS = D C. SPECTRAL RESPONSE COEFFICIENTS: Ss=, 051g; Sds=. 054g; S1=. 023g; Sd1=. 036g
 - D. SEISMIC DESIGN CATEGORY: A DEAD LOADS HAVE BEEN CALCULATED TO INCLUDE THE WEIGHT OF WORK SHOWN ON THE STRUCTURAL,
- MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS. NO OTHER EQUIPMENT SHALL BE PLACED ON OR HUNG FROM THE ROOF SYSTEM WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER, ROOF-MOUNTED HVAC UNITS SHALL BE PLACED WITHIN THE DESIGNATED AREAS SHOWN ON THE FRAMING PLANS.
- CONCRETE SHALL BE LABORATORY DESIGNED, TO DEVELOP MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI. 1. FLY ASH WILL BE PERMITTED UP TO 20% PORTLAND

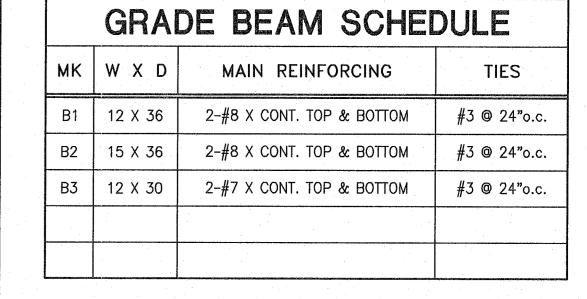
CEMENT REPLACEMENT.

- 2. CONCRETE TO HAVE MIN. OF 5 SACKS OF CEMENT/CY; MAX, SLUMP=5", MAXIMUM AGGREGATE: 1-1/2". 4. THE USE OF ADMIXTURES SHALL BE COORDINATED BETWEEN BATCH PLANT AND THE CONCRETE
- CONTRACTOR TO ADJUST FOR PLANT CONDITIONS, AND JOBSITE CONDITIONS INCLUDING SIZE OF POUR TRAVEL TIME BETWEEN BATCH PLANT AND JUBSITE, AND TIME ESTIMATED FOR COMPLETING POUR AND 5. TESTING LAB. TO BE COORDINATED WITH CONTRACTOR
- TO TAKE A SET OF FOUR (4) CYLINDERS FOR EVERY 75 YARDS OF CONCRETE, OR FRACTION THEREOF, AND PERFORM COMPRESSION TESTS IN ACCORDANCE WITH ACI-318 AND ACI-311, 5R; TWO (2) BREAKS AT 7 DAYS AND TWO (2) BREAKS AT 28 DAYS.
- 6. ALL CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING FOR AT LEAST THE FIRST SEVEN DAYS AFTER PLACEMENT, USE A WATER-BASED ACRYLIC MEMBRANE CURING COMPOUND (MAX, VOC= 3LBS/GAL) ASTM C3A, TYPE F, CLASS B.
- INSPECTIONS AND QUALITY CONTROL SHALL COMPLY WITH ASTM STANDARD E329 AND THE INTERNATIONAL BUILDING CODE (IBC), TESTING/INSPECTIONS SHALL BE PROVIDED BY AN APPROVED TESTING LABORATORY CONTRACTED W/ OWNER (SEE "SPECIAL INSPECTION NOTES"), THE STRUCTURAL ENGINEER-OF-RECORD OR HIS AUTHORIZED REPRESENTATIVE WILL MAKE PERIODIC VISITS TO THE JOBSITE TO ASCERTAIN THE WORK IS GENERALLY IN ACCURDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS, SPECIFIC VISITS TO INCLUDE REVIEW OF REINFORCING STEEL PRIOR TO PLACING CONCRETE; REVIEW OF WALLS AND ROOF FRAMING PRIOR TO SHEATHING, AND REVIEW OF DECK INSTALLATION PRIOR TO INSTALLATION/ROOFING PLACEMENT.
- REINFORCING STEEL SHALL BE FROM NEW BILLET AND SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
 - A185 (FLAT SHEETS) WELDED WIRE FABRIC A615-GR 60 ALL OTHER REINFORCING ASTM A108-60T HEADED CONCRETE ANCHORS
- DETAILING OF CONCRETE REINFORCEMENT BARS AND ACCESSORIES SHALL BE IN ACCORDANCE WITH LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFURCED CONCRETE STRUCTURES (ACI 315).
- GN-8 BAR LAPS AND SPLICES SHALL BE A LENGTH EQUAL TO AT LEAST 40-BAR DIAMETERS. PROVIDE CORNER BARS AS PER FN-7. WELDED WIRE MESH SHALL BE LAPPED 8" MINIMUM AT SPLICE POINTS, OR 1-1/2 MESHES, WHICHEVER IS GREATEST.
- MECHANICAL AND ELECTRICAL CONDUITS IN SLABS SHALL RUN UNDER THE TOP LAYER OF SLAB REINFORCING. PROVIDE A MINIMUM OF 1-1/2' CLEAR BETWEEN CONDUITS AND BETWEEN CONDUIT AND PARALLEL REINFORCING, DO NOT "BUNDLE" CONDUITS, INDIVIDUAL CONDUITS IN SLAB SHALL NOT EXCEED 1" DIAMETER, GROUPS OF CONDUITS OR CONDUITS LARGER THAN 1" DIAMETER WILL REQUIRE SLAB TO BE THICKENED TO MAINTAIN FULL SCHEDULED THICKNESS.
- GN-10 "HEADED CONCRETE ANCHORS" (HCA) SHALL BE OF 50,000 psi STEEL ROD WITH UPSET ENDS, AUTOMATICALLY ARC WELDED THROUGH CERAMIC FERRULES, "NELSON CONCRETE ANCHORS" OR EQUAL,
- GN-11 REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR DIMENSIONS, LOCATIONS AND SIZES OF FLOOR DEPRESSIONS, FLOOR AND WALL OPENINGS, SLEEVES, REGLETS, INSERTS, ANCHORS AND BOLTS REQUIRED BY THE VARIOUS TRADES. VERIFY FLOOR SINK & FLOOR DRAIN LOCATIONS WITH EQUIPMENT SUPPLIER LAYDUT.
- GN-12 THE CONTRACTOR AND FABRICATOR SHALL VERIFY ALL QUANTITIES, DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK,
- GN-13 COMPLETE SHOP DRAWINGS FOR THE STRUCTURAL WORK SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF CONSTRUCTION, IN ACCORDANCE WITH THE SPECIFICATIONS, SUCH REVIEW BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR CORRECT FABRICATION AND CONSTRUCTION OF THE WORK. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR MATERIALS PURCHASED PRIOR TO REVIEW OF SHOP DRAWINGS.









FOUNDATION NOTES:

- FN-1 5" CONCRETE SLAB, REINFORCED W/#4 @ 12" o. c. EACH WAY IN TOP. SUPPORT AT 4'-0" o. c. EACH WAY WITH CONCRETE BLOCKS, SUPPORT BOTTOM REINFORCEMENT AT 4'-0' INTERVALS ON CONCRETE BRICKS, ROCKS AND CLAY BRICKS ARE NOT ACCEPTABLE.
- FN-2 VAPOR BARRIER EXTRUDED 15 MIL POLYOLEFIN MEMBRANE IN ACCURDANCE WITH ACI 302. 1R-96 AND CONFORMING TO ASTM E1745, CLASS A.
- COMPACTED SELECT FILL (SEE "UNDERFLOOR FILL
- SCHEDULED BEAM DEPTHS ARE MINIMUM, INCREASE SCHEDULED BEAM DEPTH AS REQUIRED FOR SOFFIT TO BEAR 30' MINIMUM BELOW THE FINISHED EXTERIOR GRADE. NET ALLOWABLE BEARING PRESSURE = 2,000 PSF.
- FN-5 GRADE BEAMS AND SLAB TURNDOWNS SHALL BE FORMED BY WALLS AND SOFFIT OF CAREFULLY SHAPED TRENCH. USE A SMOOTH-MOUTHED BUCKET. IF A TOOTHED BUCKET IS USED, EXCAVATION SHALL BE STOPPED 6" ABOVE FINAL GRADE AND THE REMAINING EXCAVATION ACCOMPLISHED WITH A SMOOTH-MOUTHED BUCKET OR BY HAND LABOR TO REMOVE ALL LOOSE SOILS DISTURBED BY THE BUCKET TEETH. WOODFORM EXPOSED FACES TO A DEPTH OF 8" BELOW FINISHED GRADE.
- SOFT OR LOOSE SOIL ZONES ENCOUNTERED AT THE BOTTOM OF THE FOOTING EXCAVATIONS SHALL BE REMOVED TO FIRM SOILS OR ADEQUATELY COMPACTED FILL AS DIRECTED BY GEDTECHNICAL ENGINEER.
- FN-7 AT ALL BEAM CORNERS & T-INTERSECTIONS, PROVIDE 4 - #7 X 6'-0" CORNER BARS (2-TOP AND 2-BOTTOM).
- TRENCHES SHALL BE VERIFIED FOR SIZE TO MAINTAIN CLEARANCES AROUND REINFORCEMENT PRIOR TO PLACING REINFORCEMENT.
- WHERE BEAM DEPTH EXCEEDS 36", ADD #4 @ 12" o.c. IN EACH FACE OF BEAM.
- FN-10 STEEL SHOULD BE PLACED AND THE FOUNDATION POURED WITHIN 36 HOURS OF EXCAVATION.
- FN-11 KEEP ALL EXCAVATIONS ALONG AND WITHIN FIVE FEET (5') OF PERIMETER FREE OF STANDING WATER. PUMP DUT, INCLUDING NIGHTS AND WEEKENDS, DURING RAINS. WITHIN 48 HOURS OF STRIPPING FORMS PLACE BACKFILL AGAINST PERIMETER BEAMS AS DESCRIBED IN UF-12.

(C) COPYRIGHT 2022 - ALL RIGHTS RESERVED

These drawings, as instruments of professional service, are the property of Danysh & Associates, Inc. for use solely with respect to this Project and shall not be reproduced for other purposes. The Professional Engineer whose seal appears on the structural construction documents is the project Structural Engineer-of-Record (SER) who bears legal responsibility for the performance of the structural framing relating to the public health, safety and welfare. No other party, whether or not a Professional Engineer, may complete, correct, revise, delete or add to these construction documents or perform inspections of the work without the written permission of the SER,

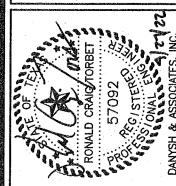
S (20) S S S ET

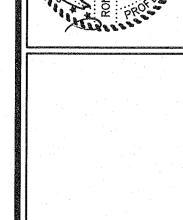
78227

Ö

REVISIONS:



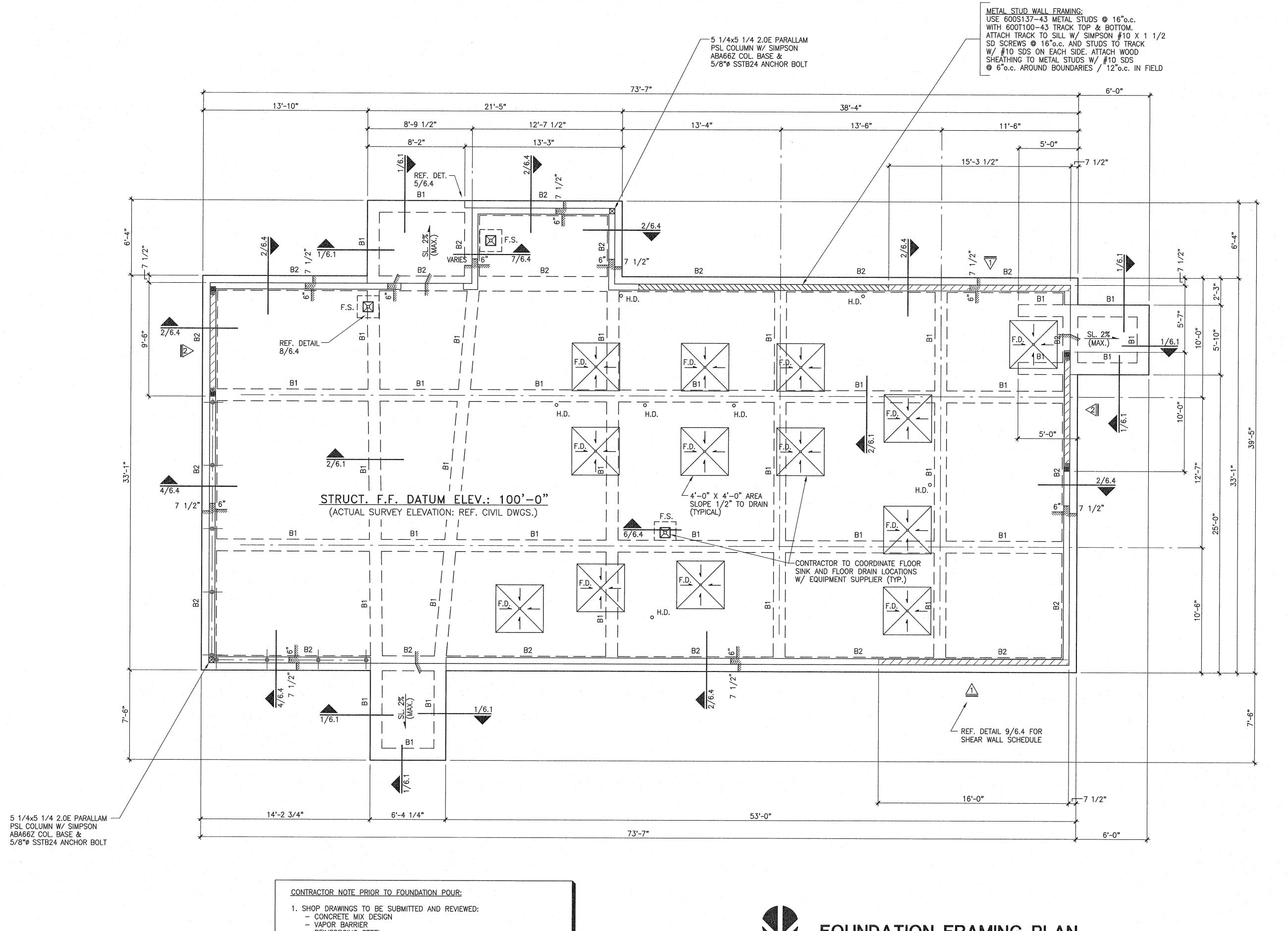




Pope
ASSOCiate
CHITECTURE PLAI

ARC 4400 ਰ DATE: 04.27.22 JOB NO: 37692

DRAWN BY: SHEET NUMBER:



- REINFORCING STEEL - EMBEDS (INCLUDING HOLDOWNS)
- 2. FIELD OBSERVATION BY DANYSH & ASSOCIATES REPRESENTATIVE (MINIMUM 24 HOUR NOTICE) AND/OR INSPECTION BY TESTING LAORATORY TO OBSERVE:
- VAPOR BARRIER - BEAM AND SLAB REINFORCING
- ALL EMBEDS (INCLUDING EXTERIOR SILL BOLTS, SHEAR WALL HOLDOWN ANCHORS AND SILL PLATE BOLTS)



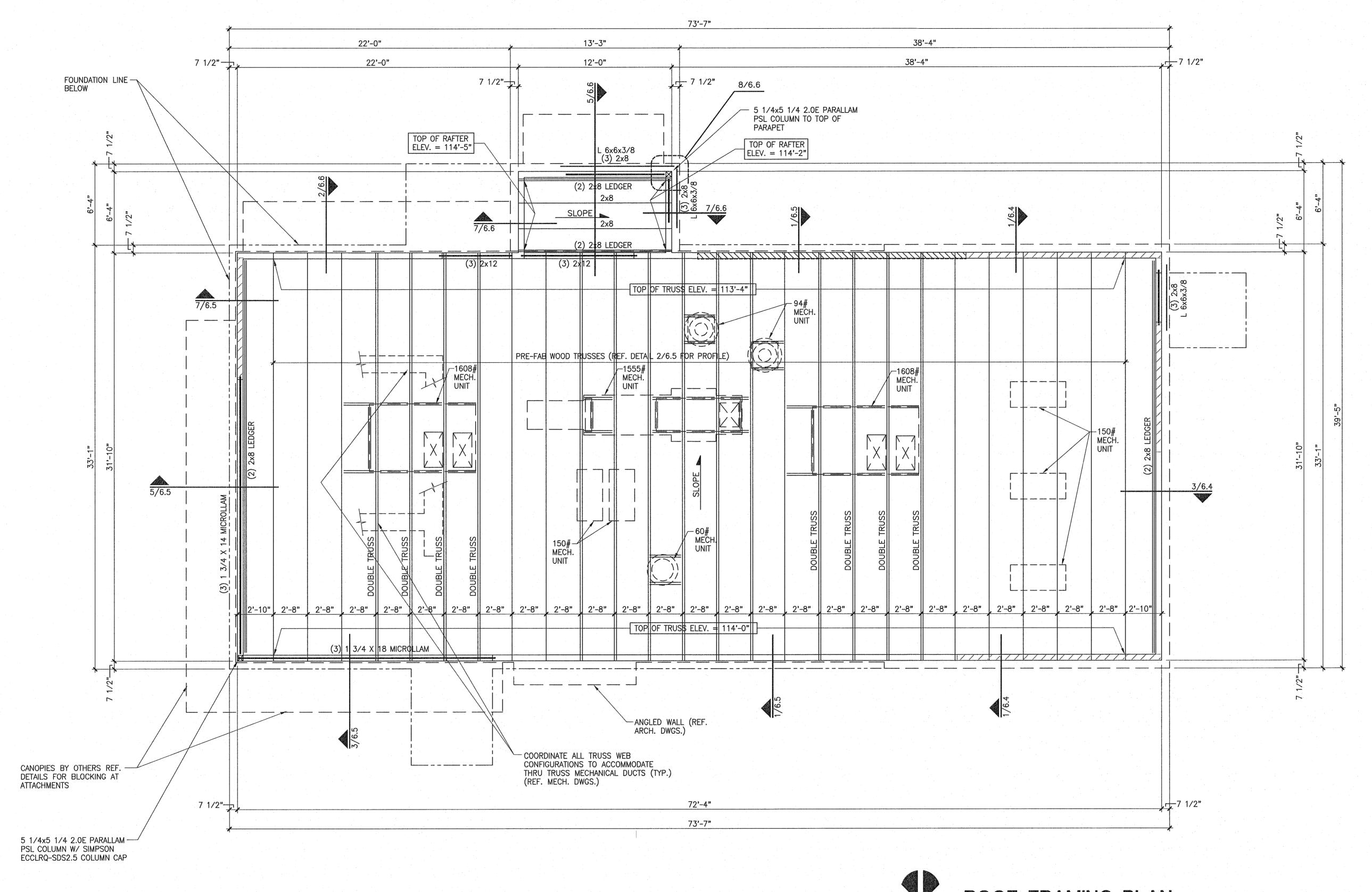
FOUNDATION FRAMING PLAN

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

DATE: 04.27.22 JOB NO: DRAWN BY: SHEET NUMBER:

6807 Military Dr W, San Antonio, Tx. 78227

FOUNDATION FRAMING PLAN





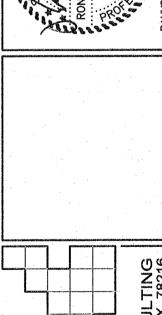
ROOF FRAMING PLAN

PLAN NOTES:

- 1.) CONTRACTOR SHALL VERIFY ALL EQUIPMENT WEIGHTS WITH SUPPLIER AND LOCATIONS PRIOR
- TO FABRICATION OF TRUSSES. 2.) CONTRACTOR SHALL COORDINATE TRUSS LAYOUT W/ SPECIFIC KITCHEN & MECHANICAL EQUIPMENT PLANS PRIOR TO FABRICATION OF TRUSSES. MAXIMUM TRUSS SPACING = 4'-0"o.c.
- 3.) REF. ARCH. DWGS. FOR DETAILS OF SCUPPERS, ROOF DRAINS, ROOF PENETRATIONS AND PITCH PAN.
- 4.) REF. ARCH. DWGS. FOR FRAMING DETAILS AT BULKHEAD. TRUSS MANUF. TO SIZE BOTTOM CHORD OF TRUSSES FOR BULKHEAD LOADS.

6807 Willitary Dr W, San Antonio, Tx. 78227



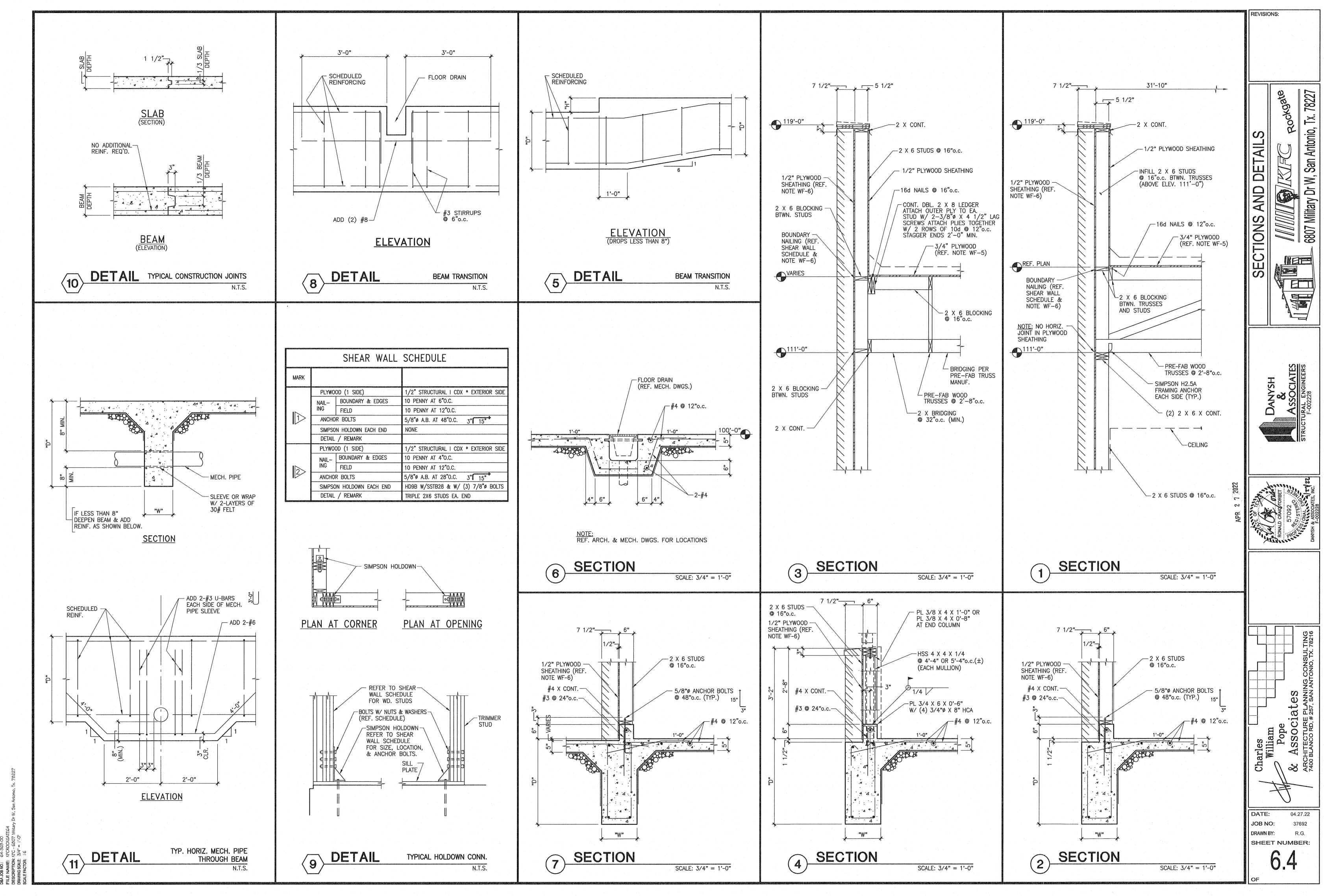


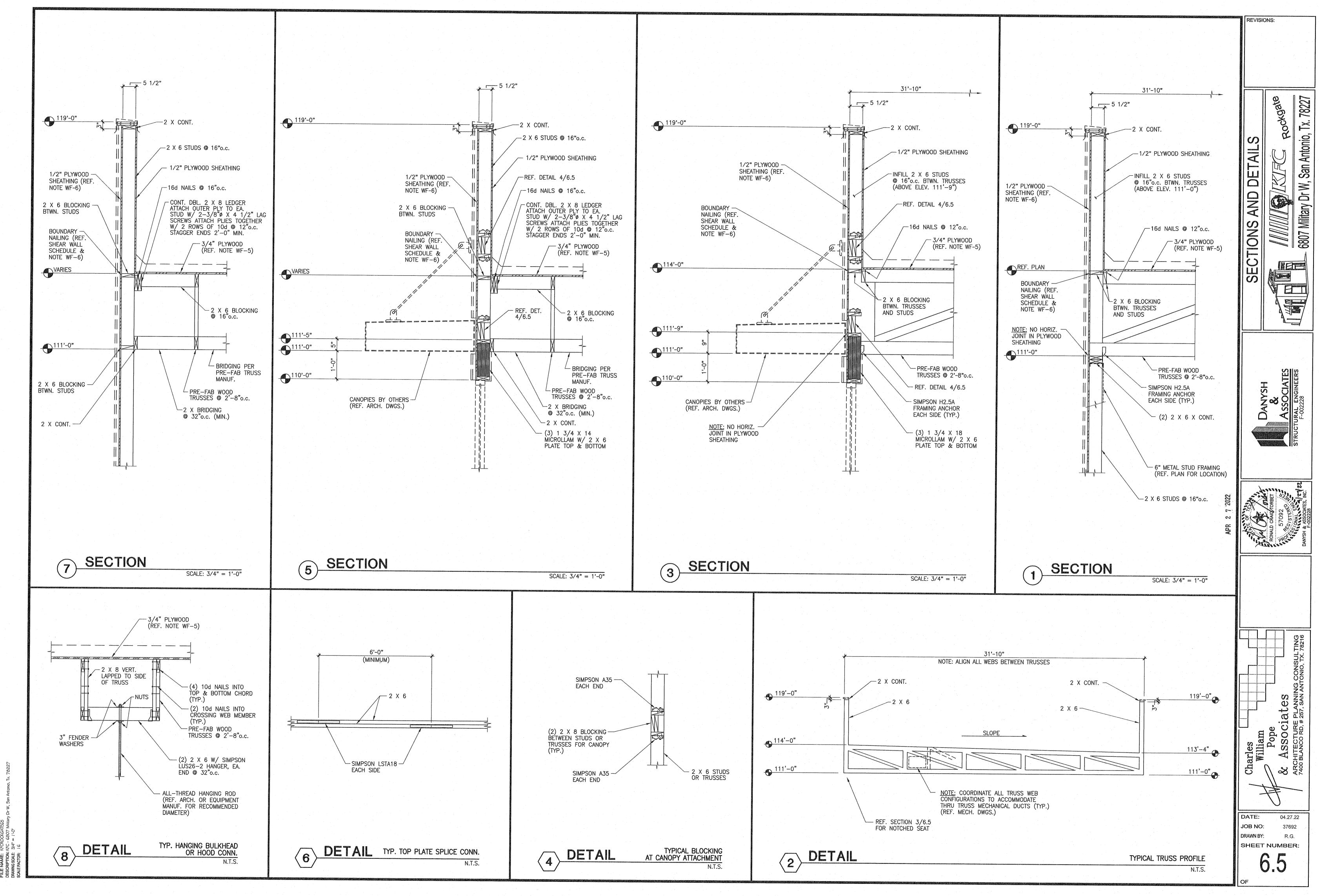
Charles
William
Pope

& ASSOCIATES
ARCHITECTURE PLANNING CONSI

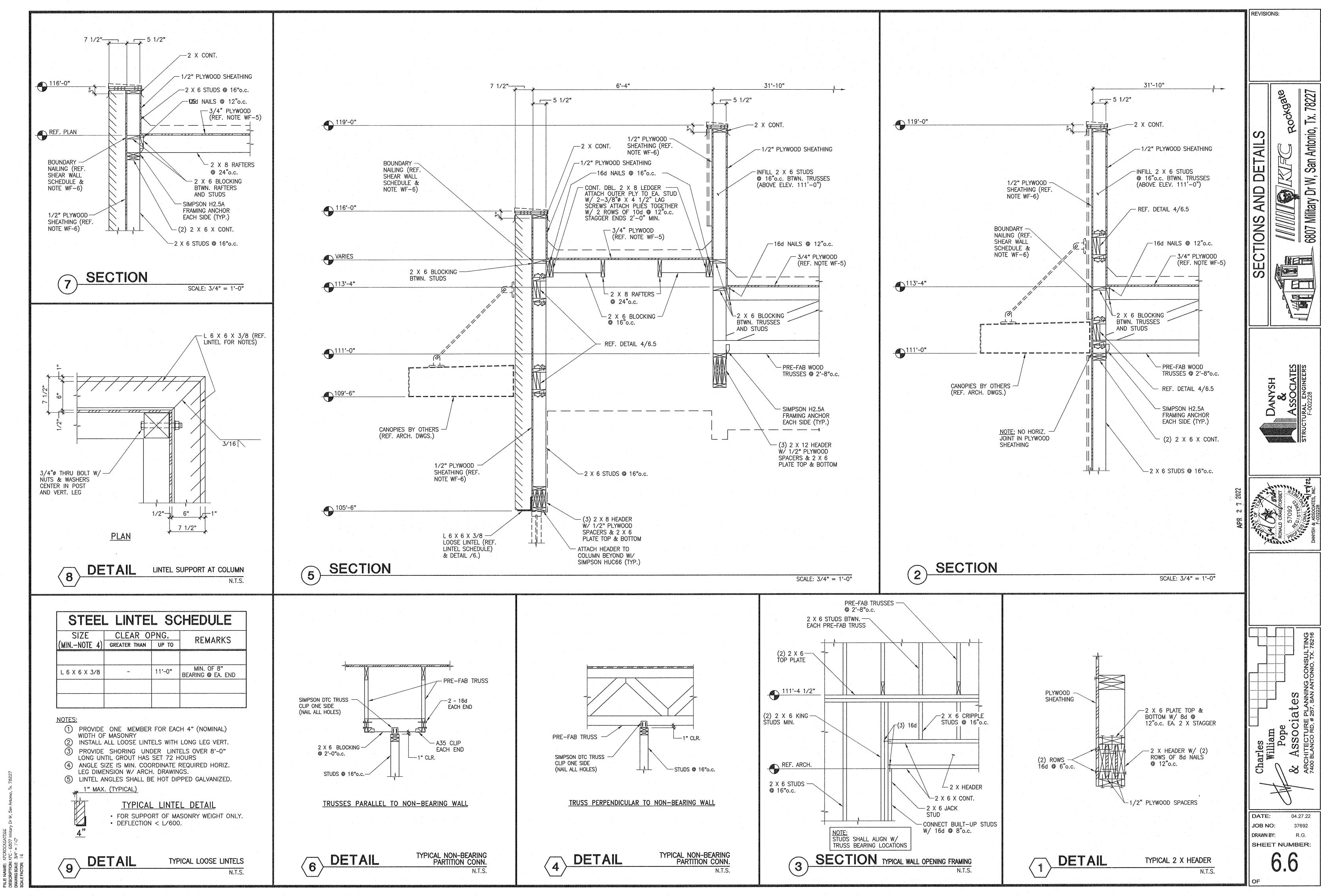
DATE: 04.27.22

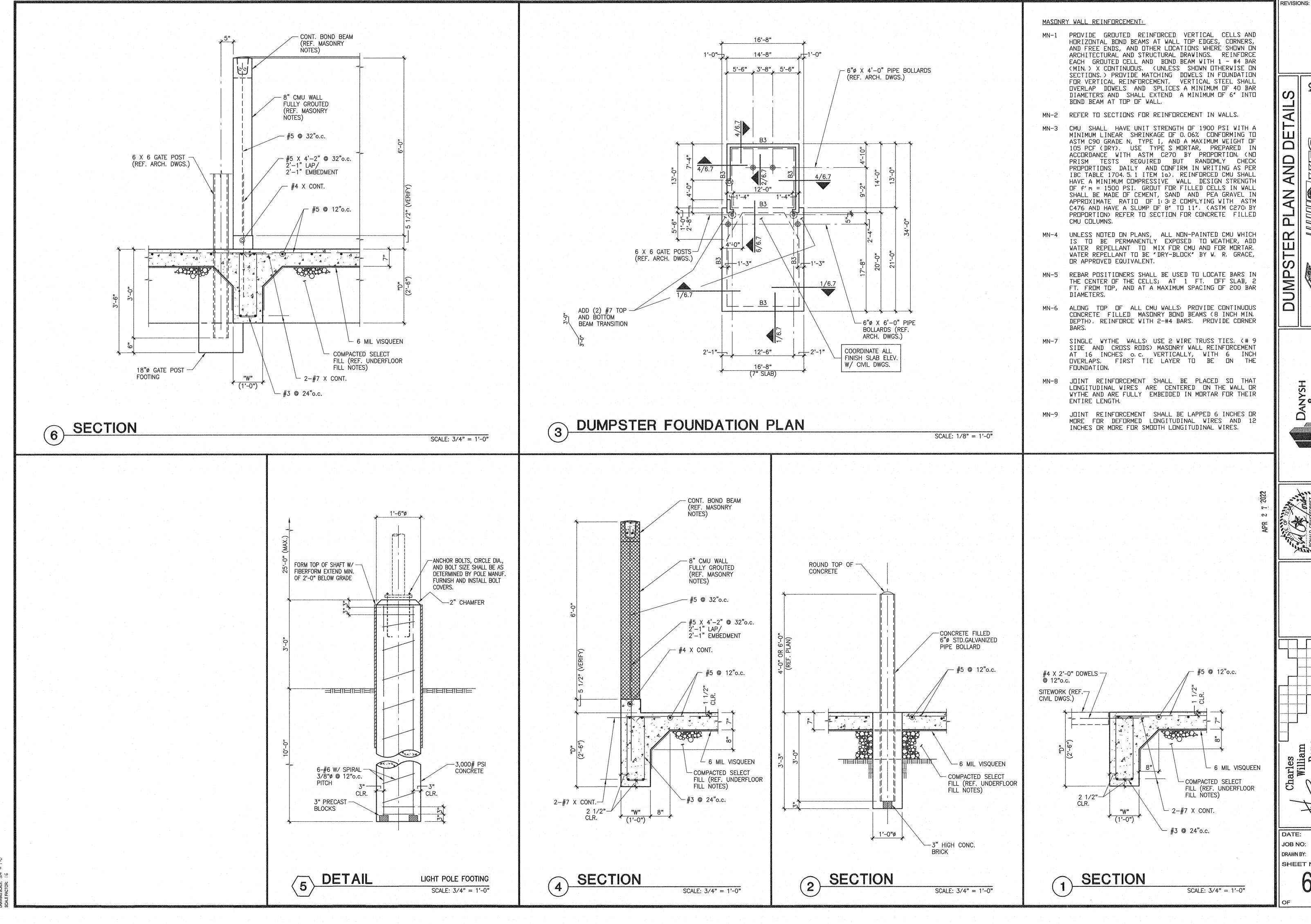
JOB NO: DRAWN BY: SHEET NUMBER:





D&A JOB NO.: 64-369-00 FILE NAME: KFCROCKGATEG5 DESCRIPTION: KFC - 6807 Military Dr W. San Artonio. Tx. 78227





Charles
William
Pope
& ASSOCiates
ARCHITECTURE PLANNING CONSULTII
7400 BLANCO RD, # 257, SAN ANTONIO, TX. 78

DATE: 04.27.22 JOB NO: DRAWN BY: SHEET NUMBER:

- A. Drawings and general provisions of the Contract apply to work of this section. Refer to Architect for items not covered herein.

1.2 SCOPE

A. This section defines and clarifies specific items that are peculiar to the structural engineer's responsibilities. Refer to Architect for specifics on shop drawing, product data, and samples submitted.

PART 2 - GENERAL DEFINITIONS

2.1 STRUCTURAL ENGINEER OF RECORD

- The engineer responsible for the design of the primary structural system and whose seal/signature appears on the contract structural drawings. Responsibility for any secondary structural and non-structural systems not shown on the structural drawings rests with the prime professional, the
- 2.2 SPECIALTY ENGINEER
- A. The engineer who is lawfully eligible to seal plans and designs for pre-engineered elements on systems which become part of the overall building.
- 2.3 SUBMITTALS
- A. Items identified in the contract documents to be submitted by the contractor. Refer to individual sections of the specifications for specific items to be submitted.
- 2.4 FIELD OBSERVATIONS
- A. Visits to the jobsite by the structural engineer-of-record or his authorized representative to ascertain whether the work is generally in accordance with the structural contract documents. These observations are not exhaustive nor continuous.

PART 3 - PROCEDURAL REQUIREMENTS

- 3.1 SHOP DRAWINGS
- A. Refer to Architect for specific requirements for number of copies to be submitted, time for review, etc. All submittals must come by way of the general contractor through the architect. Certain submittals, identified in specific sections of the specifications, generally regarding pre-engineered elements, will require a specialty engineer's seal and signature.

3.2 FIELD OBSERVATIONS

Structural engineer shall be notified at least 24 hours in advance of any concrete pour or other action that will cover up structural elements that have not been reviewed by the structural engineer. Refer to individual sections for specific stages of construction which require observation.

3.3 ENGINEER'S ACTIONS

- A. Shop Drawings
- The structural engineer will review shop drawings for the limited purpose of checking for conformance with information given and the design concept expressed in the contract
- 2. The structural engineer-of-record shall review the submittals and return them to the architect with one of the following statements checked off on the stamp: □ NO EXCEPTION TAKEN □ MAKE CORRECTIONS NOTED

□ REVISE AND RESUBMIT ☐ RETURN ONE CORRECTED COPY FOR FILE Review is only for general conformance with design concept of project and general compliance with the Contract Documents. Contractor is responsible for confirming and correlating dimensions at job site: for information which pertains to fabrication processes or construction techniques; and for coordination of work of all trades. Review of shop drawings shall not relieve Contractor, any Subcontractor, and/or Material Supplier or responsibility for deviation from requirements of Contract Documents nor for errors or omissions in



"NO exceptions Taken" informs the Architect that the structural engineer takes no exception to the submittal being approved as per and in accordance with AIA Document 201, section 4.2.7.

"Make Corrections Noted" informs the Architect that the structural engineer has made corrections on the submittals but otherwise takes no exception to the submittal being approved as per and in accordance with AIA Document 201, section 4.2.7.

"Revise and Resubmit" indicates important items must be corrected and resubmitted. Marks on the submittal may not necessarily cover all of the defects of the submittal. This action constitutes the structural engineer's concern and his recommendation to the Architect that the submittal be reviewed and resubmitted as per and in accordance with AIA Document 201, section 4.2.7.

"Return One Corrected Copy For File" informs the Architect that the submittal may be approved as per AIA Document 201, section 4.2.7, but a corrected copy showing that corrections have been acknowledged must be returned for the structural engineer's

B. Shop drawings with specialty engineer's seal and signature:

Certain shop drawings may be identified in specific sections of the specifications pertaining to pre-engineered structural elements specified by the structural engineer-of-record and designed by specialty engineers. The structural engineer shall verify that submittals have received prior approvals as required by the contract documents. Submittals shall bear the signature and professional seal of the specialty engineer responsible for the design as required by the contract documents. The structural engineer shall review the submittal for type, position, and connection to other elements within the primary structural system, and for criteria and loads used for their design. Action on these submittals will be the same as for other shop drawings.

3.4 SITE VISITS

- A. The structural engineer-of-record ("SER") will make site visits at intervals appropriate to the stage of construction and as defined by the contract to visually observe the quality and the progress of the construction work relative to the primary structural system. The general contractor is responsible to notify the SER when structural elements are ready for review and prior to their being covered up. Failure to do so may result in key observations not being made, preventing the engineer from recommending acceptance of the work. A written report will be made of each visit listing discrepancies, if any, and describing what was observed. One copy will be sent to the Architect. If a follow-up visit is necessary the contractor on site will be informed and it will be noted on the report.
- B. The SER shall not have control over or charge of and shall not be responsible for construction means. methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work for This Part of the Project, since these are solely the Contractor's responsibility under the Contract for Construction. The SER shall not be responsible for the Contractor's or a Subcontractor's schedule or failure to carry out the Work in accordance with the Contract Documents. The SER shall not have control over or charge of acts or omissions of the Contractor, Subcontractors, their agents or employees or other persons performing portions of the Work.

END OF SECTION 01 33 41

GEOTECHNICAL QUALITY CONTROL AND TESTING **SECTION 01 14 20**

PART 1 - GENERAL

- 1.1 SCOPE A. Inspection and testing of earthwork and associated construction practices shall be conducted to determine whether or not their characteristics and qualities as used in construction comply with the construction documents. Inspection and testing shall be according to American Society for Testing Materials (ASTM) Standard E 329, latest edition requirements.
 - 1.2 RELATED WORK SPECIFIED ELSEWHERE
 - A. Conditions of the Contract: Inspections and testing required by laws, ordinances, rules, regulations, order of approvals of public authorities.
 - B. Each specification section listed, laboratory tests required, and standards for testing: Section 01 14 11: Special Inspections
 - Section 02 32 00: Subsurface & Soil Condition Section 31 23 16: Excavating, Backfilling & Compacting for Structures
 - C. Refer to "UNDERFLOOR FILL NOTES: (ON-GRADE FOUNDATION)" on plans.

1.3 QUALITY ASSURANCE

- A. In addition to the requirements according to American Society for Testing and Materials (ASTM) Standard E329, latest edition, the geotechnical laboratory and its personnel shall meet the following
- 1. GEOTECHNICAL LABORATORY QUALIFICATIONS: The Geotechnical Laboratory recommended by the Architect/Engineer for performing the testing and monitoring is the laboratory associated with the Geotechnical Engineer
- The laboratory office performing the service(s) shall subscribe (or show that application has been made and is scheduled for an audit of the tests that will be required for the project) to an independent audit by a national agency such as American Association of State Highway and Transportation Officials (AASHTO) and/or American Association for Laboratory Accreditation (AALA) that routinely monitors, assesses and certifies the professional and technical activities of geotechnical testing laboratories. Provide the Architect/Engineer a copy of the laboratory's certification for the specific services and tests certified to perform under its audit prior to the laboratory initiating work on the
- The Geotechnical Laboratory shall show evidence that it participates in reference laboratory testing programs for the testing services that it is offering for this project. The reference programs may include national, state or regional reference laboratories and shall extend beyond the limits of in-house or inter-office testing within the same company. Acceptable reference laboratories include AASHTO Materials Reference Laboratory (AMRL), Cement and Concrete Reference Laboratory (CCRL) or other organizations with an established charter and being recognized in the industry as an institution that promotes education and improved materials science. 2. GEOTECHNICAL LABORATORY PERSONNEL:
- a. The Geotechnical Laboratory shall assign qualified personnel to the project. Services and tests requiring engineering duties shall be performed by a licensed Professional
- Engineer or personnel under his direct supervision Submit the name of the licensed Professional Engineer who has responsible charge of the firm's services on the project along with his resume that illustrates experience in performing and managing quality assurance activities for the scope of work involved. Services and tests that will be provided by non-engineering personnel shall be performed by personnel that have appropriate certification from National Institute for the
- Certification of Engineering Technicians (NICET). Services and tests that will be provided by non-engineering personnel shall be performed by personnel that is acceptable to the Geotechnical Engineer.
- Submit certificates or written evidence of their qualifications to Architect/Engineer prior GEOTECHNICAL ENGINEER The engineer responsible for having prepared the design recommendations of the
- bearing depth, and subgrade and fill preparation within the building area in the eotechnical study report (as referenced in Section 02 32 00 of these specifications). 4. EQUIPMENT
- Nuclear moisture-density gauge(s) shall be licensed and shall meet State agency 5. DUTIES OF THE GEOTECHNICAL ENGINEER: Attend preconstruction meeting.
- Review the testing and monitoring of the earthwork specified in the contract documents to check for conformance with the respective specification and/or plan notes of this project. His review shall include review of the: Depth of excavation:
- Proofrolling and preparation of the subgrade below the building; Preparation of the select fill pad below the building.
- Submit a statement with a copy directly to the Structural Engineer at the completion of he related part of the project summarizing compliance/noncompliance of the test results or items monitored with regard to determining if work monitored and tested is according to Contract Document requirements.
- 6. DUTIES OF THE GEOTECHNICAL LABORATORY: Attend preconstruction meeting.
- Review available soils information (specifically but not limited to the Geotechnical Provide reports within a timely basis to the Geotechnical Engineer for his review. Test, monitor and check for compliance of the earthwork specified in the contract
 - documents, including: Depth of excavation; Proofrolling and preparation of the subgrade below the building;
- Preparation of the select fill pad below the building. Perform additional tests or monitoring of the work as deemed necessary by the Architect,
- Structural Engineer, Geotechnical Engineer, Contractor or Owner. RESPONSIBILITY OF THE CONTRACTOR: Cooperate with Geotechnical Engineer and the Geotechnical Laboratory's representatives and provide them access to the Work.
- Secure and/or deliver to the Geotechnical Laboratory adequate quantities of representational samples of materials proposed to be used and which require testing. Provide copies of the material test reports required. Furnish one complete set of project plans and specifications to the Geotechnical
- Engineer and the Geotechnical Laboratory to facilitate inspections, testing, monitoring Assist Geotechnical Laboratory in obtaining, handling storing and curing samples at the
- project site or at the source of the material to be tested. Notify Geotechnical Laboratory sufficiently in advance of operations to allow for laboratory assignment and scheduling of personnel and tests. Employ and pay for the services of the Geotechnical Laboratory to perform additional nspections, sampling and testing required: For the Contractor's convenience.
- When initial test indicate Work does not comply with Contract Documents. SPECIFIC TESTS AND MONITORING METHODS REQUIRED:
- All tests to be reviewed by the Geotechnical Engineer prior to submitting to Refer to Geotechnical Report for "pilot holes" for grade beams, spread footings, and piers to detect the possible presence of "...voids, caves, sinkholes, solution zones, and collapse breccia may be encountered in the Glen Rose Formation during construction."
- Depth and frequency are to be confirmed as recommended in said report. Refer to "Underfloor Fill Notes" on Plans. Witness the subgrade below the building foundations is being proofrolled
- according to the recommendations in the "Underfloor Fill Notes." At least one field density test for each 5,000 square feet of subgrade below
- building for "Density Control of Compaction" in accordance with latest ASTM D-2922 and ASTM D-3017. Minimum of 3 tests total. At least one field density test per lift for each 5,000 square feet of select fill below buildings for "Density Control of Compaction" in accordance with latest ASTM D-
- 2922 and ASTM D-3017. Minimum of 3 tests total per lift. 4) At least one field density test per lift for each 5,000 square feet of stabilizing base course below buildings for "Density Control of Compaction" in accordance with latest ASTM D-2922 and ASTM D-3017. Minimum of 3 test total per lift. (Refer to
- "Underfloor Fill Notes" for fill and testing of fill in utility trenches) 5) At least one field density test per lift for each 50 linear feet of select fill within plumbing trenches for "Density Control of Compaction" in accordance with latest ASTM D-2922 and ASTM D-3017. Minimum of 4 tests total per trench. Fill material
- below the pipe and up to 12" above the pipe need not be tested for compaction. Review the bearing stratum of the beams and footings for compliance with

recommended design requirements. END OF SECTION 01 14 20 SECTION 01 14 11 SPECIAL INSPECTIONS: IBC CHAPTER 17

PART 1 - GENERAL

- 1.1 SCOPE
- The 2018 International Building Code (IBC), Chapter 17, "Structural Tests and Special Inspections" requires materials of construction and tests to conform to applicable standards listed therein. This section determines which inspections are required, frequency, and qualification required of the inspector.
- 1.2 RELATED WORK SPECIFIED ELSEWHERE
- Section 01 33 41: Structural Engineer: Shop Drawings/Field Visits
- B. Section 31 23 16: Structural Earthwork for Building Foundation
- C. Section 03 30 01: C.I.P. Concrete
- 1.3 GENERAL
- Section 1704: ".....the owner or the Registered Design Professional in Responsible Charge (RDPIRC) acting as the owner's agent shall employ one or more approved agencies to provide special inspections and tests during construction on the types of work listed under Section 1705 and identify the approved agencies to the Building Official."
- 1.4 APPROVED LIST
- The firm intended to be retained for conducting such inspections shall be designated by the Registered Design Professional in Responsible Charge (RDPIRC), the Architect.

PART 2 - SPECIAL INSPECTIONS

REQUIRED	FREQUENCY	DESCRIPTION	IBC SECTION REFERENCE
SOILS (SLAB-ON-GRADE)		Site Preparation	IBC 1705.6
1. Sub-grade	Periodic	Visual Observation: At the contractor's expense, instrument readings shall be taken by a licensed surveyor to show final subgrade elevations and slopes.	Geotechnical Report; Under Floor Fill Note
2. Excavation	Periodic	Verify excavations are extended to proper depth and have reached proper material.	Geotechnical Report; Under Floor Fill Note
a. Proof Rolling	Continuous	Visual Observation: A Geotechnical Engineer shall monitor proof rolling. The Geotechnical Engineer shall approve the type of proof rolling equipment and procedures.	Geotechnical Report; Under Floor Fill Note
b. Moisture Conditioning & Recompaction	Continuous or Periodic	Refer to Underfloor Fill Notes for Testing Specifications including frequency of density testing	Floor Fill Note
3. During Fill Placement	Continuous or Periodic	Visual Observation: Arrange for testing lab to sample material. The testing lab shall visually monitor pit run materials with additional samples tested each day, or more often if material appears to vary.	IBC 1704.7.2 Geotechnical Report; Under Floor Fill Note
Evaluation in place Density of Fill	Continuous or Periodic	Refer to Underfloor Fill Notes for Testing Specifications including frequency of density testing	IBC 1704.7.3 Geotechnical Report; Under Floor Fill Note
5. Trench Backfilling	Continuous or Periodic	Trench backfilling with clay cap and placing of clay plug shall be monitored by Geotechnical Engineer with a written report sent to the Structural	

		Engineer.
2.2	CONCRETE CONSTRUCTION	

	REQUIRED	FREQUENC Y	IBC SECTION & REFERENCE
CONCR	RETE CONSTRUCTION		IBC 1705.3
1. Reir a.	nforcing Steel Provide inspection of reinforcing sizes, spacing, grade of rebar; and placement.	Periodic	ACI 318 Ch. 20, 25.2, 25.3, 26.5.1-26.5.3; General Notes; Specifications 03 10 00, 03 20 00 and 03 30 00
	nforcing Steel Welding		
a.	Verify weldability of rebar other than ASTM A 706	Periodic	AWS D1.4 & ACI 318:
	Inspect single-pass fillet welds=5/16"	Periodic	26.6.4
C.	Inspect all other welds.	Continuous	
3. Cas	t-in-Place Anchors	Periodic	ACI 318: 17.8.2
	t-Installed Anchors1		
	Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	Continuous	ACI 318: 17.8.2.4
	Mechanical anchors and adhesive anchors not defined in 4.a	Periodic	ACI 318: 17.8.2
5. Veri	fy use of approved concrete mix design	Each Concrete Pour-Periodic	ACI318: Ch.19, 26.4.3, 26.4.4
a	npling of fresh concrete All concrete testing is to be made after water, if any, is added at site. Provide a set of (4) four cylinders to be taken for every 75 cubic yards of concrete, or fraction thereof, by testing lab.	Each Concrete Pour- Continuous	ACI318: 26.4.4, 26.12
	c. Monitor slump and air content of concrete and notify delivery driver if slump deviates more than plus or minus 1 inch from recommended value. Contact supplier for further directions.	Continuous	
	cement of concrete & shotcrete	Continuous	ACI318: 26.4.4
8. Mai	ntenance of specified curing temperature & techniques	Each Concrete Pour-Periodic	ACI318: 26.4.7-26.4.9
slab	noval of shores and forms from beams and structural os Verify in-situ concrete strength prior to removal.	Periodic	ACI 318: 26.10.2; Concrete Joist Genera Notes
10. For	Inspect for shape, location and dimensions of the concrete member being formed. requirements for special inspection shall be included in the	Periodic	ACI 318: 26.10.1(b)

FREQUENC | IBC SECTION &

an approved source in accordance with 17.8.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the Registered Design Professional in Responsible Charge (RDPIRC) and shall be approved by the Building Official prior to the commencement of the work.

PART 3 - QUALIFICATIONS/DEFINITIONS

- 3.1 Inspector Qualifications: Qualifications given above are the recommendations of the local members of the Texas Council of Engineering Laboratories. It is also recommended that the Special Inspectors should be employed by an agency accredited by any nationally recognized accrediting body: AASHTO, A2LA, NVLAP, ICC, etc.
 - These inspections do not relive engineer from structural observations as may be required by IBC
- 2018, Section 1704.6, and/or contractual requirements of architect/client, (i.e. C141).
- 3.3 Definitions/Terms: Periodic vs Continuous Inspections Reference IBC Section 1702 ASNT American Society for Nondestructive Testing
 - ASTM American Society for Testing Materials
 - C. CRSI Concrete Reinforcing Steel Institute
 - Testing and inspection directed by ASTM E329 guidelines

END OF SECTION 01 14 11

STRUCTURAL QUALITY CONTROL AND TESTING **SECTION 01 14 10**

REVISIONS:

CATIONS

Rockgate

78227

 \geq

PE SE

SS

Ġ

PART 1 - GENERAL

1.1 SCOPE

A. Inspection and testing of materials, composites and construction practices shall be conducted to determine whether or not their characteristics and qualities as used in the construction comply with the construction documents. Inspection and testing shall be according to American Society for Testing Materials (ASTM) Standard E 329, latest edition requirements.

1.2 RELATED WORK SPECIFIED ELSEWHERE

- Conditions of the Contract: Inspections and testing required by laws, ordinances, rules, regulations,
- order of approvals of public authorities. B. Each specification section listed, laboratory tests required, and standards for testing:
 - Section 01 14 11: Special Inspections: IBC Chapter 17
 - Section 01 14 20: Geotechnical Quality Control and Testing Section 01 33 41: Structural Engineer: Shop Drawings/Field Visits
 - Section 02 32 00: Subsurface and Soil Conditions
 - Section 03 30 01: C.I.P. Concrete Section 06 19 50: Fabricated Wood Truss Rafters
 - Section 07 26 20: Vapor Barrier Section 31 23 16: Structural Earthwork for Building Foundation

1.3 QUALITY ASSURANCE

A. In addition to the requirements according to ASTM E329, the Testing Laboratory and its personnel shall meet the following qualifications:

1. Testing Laboratory Qualifications:

- a. The Testing Laboratory office performing the service(s) shall subscribe (or show that application has been made and is scheduled for an audit of the tests that will be required for the project) to an independent audit by a national agency such as the American Association of State Highway and Transportation Officials (AASHTO) and/or American Association for Laboratory Accreditation (AALA) that routinely monitors, assesses, and certifies the professional and technical activities of testing laboratories. Provide the Architect/Engineer a copy of the Laboratory's certification for the specific services and tests certified to perform under its audit prior to the Laboratory initiating work on the
- The Testing Laboratory shall show evidence that it participates in reference laboratory testing programs for the testing services that it is offering for the project. The reference programs may include national, state or regional reference laboratories but shall extend beyond the limits of in-house or inter-office testing within the same company. Acceptable reference laboratories include AASHTO Materials Reference Laboratory (AMRL), Cement and Concrete Reference Laboratory (CCRL) or other organizations with an established charter and being recognized in the industry as an institution that promotes
- education and improved materials science. Testing Laboratory Personnel
- a. The Testing Laboratory shall assign qualified personnel to the project. Services and tests requiring engineering duties shall be performed by a licensed Professional Engineer or
- personnel under his direct supervision. Submit the name of the licensed Professional Engineer who has responsible charge of the firm's services on the project along with his resume that illustrates experience in
- performing and managing quality assurance activities for the scope of work involved. Services and tests that will be provided by non-engineering personnel shall be performed by personnel that have appropriate certification from either The National Institute for the Certifications of Engineering Technicians (NICET) for concrete, masonry and steel testing and monitoring, American Concrete Institute (ACI) for concrete and masonry testing and monitoring or American Welding Society (AWS) for steel testing
- Submit certificates or written evidence of their qualifications to the Architect/Engineer prior to initialing work.

B. Responsibility of Testing Laboratory:

- In addition to the responsibilities and duties according to ASTM 329, the Testing Laboratory
- Attend preconstruction meeting. Promptly and verbally notify by phone call the Structural Engineer immediately from the iobsite when test results (not limited to irregularities or deficiencies) are known and prior
- to delaying the project. Promptly notify the Architect/Engineer responsible for the design of materials not meeting specified requirements so that the Work can be rejected by the party with
- authority to reject the Work. Promptly submit written report of each test and inspection with a copy directly to the Structural Engineer. Recommend and perform additional inspections, sampling, and testing of materials and
- methods of construction to the Architect/Engineer in writing if specified requirements by Architect/Engineer appear insufficient, or ambiguous. Submit a written statement with a copy directly to the Structural Engineer at the pletion of the Part of the Project summarizing

the compliance of the test results/items inspected with the specified requirements Perform additional tests as required by Architect/Engineer or the Owner.

- C. Limitations of Authority of Testing Laboratory: Laboratory is not authorized to:
- Release, revoke, after or enlarge on requirements of Contract Documents: Approve or accept any portion of the Work; Perform any duties of the Contractor.
- D. Responsibility of the Contractor:
- Cooperate with testing personnel, provide access to Work and to Manufacturer's operations and provide adequate facilities as required for storage and curing of test samples. Secure and/or deliver to the testing agency adequate quantities of representational samples of
- materials proposed to be used and which require testing. Provide copies of product's test reports as required. Furnish one complete set of project plans and specifications to the Testing Laboratory to
- facilitate inspections and testing and to provide direction on the storage and curing of test Assist testing agency in obtaining and handling samples at the Project site or at the source of Notify testing agency sufficiently in advance of operations to allow for laboratory assignment of
- E. Specific Tests, Inspections and Methods Required:

personnel and scheduling of tests.

Section 03 30 01 - Concrete Reinforcing:

- a. Reinforcing steel shall be inspected as required by the Building Code requirements for additional reinforcing steel inspections; IBC Chapter 18.
- 2. Section 03 30 01 Concrete Mix Design Statement: a. Submit letter with a copy directly to the Structural Engineer stating that the concrete mix
- and concrete to be used on the project meets these specifications prior to placement. All concrete furnished shall be in strict accordance with the specification requirements. b. Mix design shall be in accordance with Section 03 30 01 Cast-in-Place Concrete.
- 3. Section 03 30 01 Concrete Monitoring and Testing:
 - a. Concrete shall be monitored and tested by the testing laboratory in accordance with ACI 311.5R and additionally in accordance with ACI 301, Section 16.4 and as required by the Building Code requirements for additional concrete inspections, IBC Chapter 17. Concrete tests shall be performed by certified technicians in accordance with ACI 301. Batch plant inspection is not required. Frequency of testing shall be in accordance with ACI 318. Number of test specimens shall be in accordance with ACI 311.5R. Results of tests shall be basis for rejection or acceptance of concrete.

END OF SECTION 01 14 10

De Ciates
CURE PLANNING (

DATE: 04.27.22 JOB NO: DRAWN BY: SHEET NUMBER:

Moisture Curing: Keep surfaces continuously moist for not less than seven days with the following materials:

Water b. Continuous water-fog spray

2. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating and repair damage during curing

Curing and Sealing Compound: Apply uniformly to floors and slabs indicated in a continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Repeat process 24 hours later and apply a second coat. Maintain continuity of coating and repair damage during curing period.

2.10 CONCRETE SURFACE REPAIRS

Defective Concrete: Repair and patch defective areas when approved by Architect. Remove and replace concrete that cannot be repaired and patched to Architect's approval

B. Patching Mortar: Mix Dry-pack patching mortar, consisting of one part Portland cement to two and one-half parts fine aggregate passing a No. 16 (1.2 mm) sieve; using only enough water for handling

Repairing Formed Surfaces: Surface defects include color and texture irregularities, cracks, spalls, air bubbles, honeycombs, rock pockets, fins and other projections on the surface, and stains and other discolorations that cannot be removed by cleaning.

Immediately after form removal, cut out honeycombs, rock pockets, and voids more than 1/2 inch (13mm) in any dimension in solid concrete but not less than 1 inch (25 mm) in depth. Make edges of cuts perpendicular to concrete surface. Clean, dampen with water and brush-coat holes and voids with bonding agent. Fill and compact with patching mortar before bonding agent has dried. Fill form-tie voids with patching mortar or cone plugs secured in place with

bonding agent. 2. Repair defects on surfaces exposed to view by blending white Portland cement and standard Portland cement so that, when dry, patching mortar will match surrounding color. Patch a test area at inconspicuous locations to verify mixture and color match before proceeding with

patching. Compact mortar in place and strike off slightly higher than surrounding surface. Repair defects on concealed formed surfaces that affect concrete's durability structural performance as determined by Architect.

D. Repairing Unformed Surfaces: Test unformed surfaces, such as floors and slabs, for finish and verify surface tolerances specified for each surface. Correct low and high areas. Test surfaces sloped to drain for trueness of slope and smoothness; use a sloped template

Repair finished surfaces containing defects. Surface defects include spall, pop outs, honeycombs, rock pockets, crazing and cracks in excess of 0.01 inch (0.25 mm) wide or that penetrate to reinforcement or completely through unreinforced sections regardless of width, and other objectionable conditions.

After concrete has cured at least 14 days, correct high areas by grinding. Correct localized low areas during or immediately after completing surface finishing operations by cutting out low areas and replacing with patching mortar. Finish repaired areas to blend into

adjacent concrete. 4. Correct other low areas scheduled to receive floor coverings with a repair underlayment and primer according to manufacturer's written instructions to produce a smooth, uniform, plane,

and level surface. Feather edges to match adjacent floor elevations. Repair defective areas, except random cracks and single hole 1 inch (25 mm) or less in diameter, by cutting out and replacing with fresh concrete. Remove defective areas with clean, square cuts and expose steel reinforcement with at least 3/4 inch (19 mm) clearance all around. Dampen concrete surfaces in contact with patching concrete and apply bonding agent. Mix patching concrete of same materials and mix as original concrete except without coarse aggregate. Place, compact, and finish to blend with adjacent finished concrete. Cure in same manner as adjacent concrete.

6. Repair random cracks and single holes 1 inch (25 mm) or less in diameter with patching mortar. Groove top of cracks and cut out holes to sound concrete and clean off dust, dirt and loose particles. Dampen cleaned concrete surfaces and apply bonding agent. Place patching mortar before bonding agent has dried. Compact patching mortar and finish to match adjacent concrete. Keep patched are continuously moist for at least 72 hours.

Perform structural repairs of concrete, subject to Architect's approval, using epoxy adhesive and

F. Repair materials and installation not specified above may be used, subject to Architect's approval.

2.11 FIELD QUALITY CONTROL

Testing Agency: Engage a qualified independent testing and inspecting agency to sample materials, perform tests, and submit test reports during concrete placement according to requirement specified in this Article. Coordinate with Section 01 1410 Special Inspections.

Testing Agency: Owner will engage a qualified independent testing and inspecting agency to sample quality control may include those specified in this Article.

C. Testing Services: Testing of samples of fresh concrete obtained according to ASTM C 172 shall be performed according to the following requirements:

Testing Frequency: Obtain at least one sample for each 80 cu. yd. (76 cu. m.) Or fraction thereof of each concrete mix placed each day. When more than 80 cu. yds, is being continuously placed, the interval between test samples shall be at least 50 cu. yds. a. When frequency of testing will provide fewer than five compressive- strength tests for each concrete mix, testing shall be conducted from at least five randomly selected batches or from each batch if fewer than five are used.

2. Slump: ASTM C 143; one test at point of placement for each sample, but not less than one test for each day's pour of each concrete mix. Perform additional tests when concrete consistency

Air Content: ASTM C 231; pressure method, for normal-weight concrete; one test for each sample, but not less than one test for each day's pour of each concrete mix. Concrete Temperature: ASTM C 1064; one test hourly when air temperature is 40 degrees F

(4.4 degrees C) and below and when 80 degrees F (27 degrees C) and above, and one test for each sample. 5. Compression Test Specimens: ASTM C 31/C 31M; cast and laboratory cure one set of four standard cylinder specimens for each sample.

a. Cast and field cure one set of four standard cylinder specimens for each sample.

6. Compressive-Strength Tests: ASTM C 39; test two laboratory-cured specimens at 7 days and two at 28 days a. Test two field-cured specimens at 7 days and two at 28 days. Compressive- strength test shall be the average compressive strength from two specimens obtained from same sample and tested at age indicated.

D. When strength of field-cured cylinders is less than 85 percent of companion laboratory-cured cylinders, Contractor shall evaluate operations and provide corrective procedures for protecting and curing in-place concrete.

Strength of each concrete mix will be satisfactory if every average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength and no compressivestrength test value falls below specified compressive strength by more than 500 psi (3.4 MPa).

Test results shall be reported in writing to Architect, concrete manufacturer, and Contractor within 48 hours of testing. Reports of compressive-strength tests shall contain Project identification name and number, date of concrete placement, name of concrete testing and inspecting agency, location of concrete batch in Work, design compressive strength at 28 days, concrete mix proportions and materials, compressive breaking strength, and type of break for both 7 and 28 day tests.

Nondestructive Testing: Impact hammer, sonoscope, or other nondestructive device may be permitted by Architect but will not be used as sole basis for approval or rejection of concrete.

Additional Tasks: Testing and inspecting agency shall make additional tests of concrete when test results indicate that slump, air entrainment, compressive strength, or other requirements have not been met, as directed by Architect. Testing and inspecting agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C-42 or by other methods as directed

END OF SECTION 03 30 01

H. Clean forms and adjacent surfaces to receive concrete. Remove chips, wood sawdust, dirt, and other debris just before placing concrete

I. Retighten forms and bracing before placing concrete, as required, to prevent mortar leaks and maintain proper alignment.

J. Coat contact surfaces of forms with form-release agent, according to manufacturer's written instructions, before placing reinforcement.

Floor slab permanent corrugated steel forms shall be hot-dip galvanized, 28 gage cold rolled steel, having minimum "S" of 0.0356 and a minimum yield strength of 80,000 psi. Attach to supporting members by plug welding through 16 gage mild steel weld washers. Weld side laps of sheets to each member, and in addition, weld the middle of each sheet at end laps. At free

edges of deck (entire perimeter of decked area) weld to supports at 12" on center. Provide

additional welds where required to insure that all sheets lie flat prior to placement of concrete.

2.2 EMBEDDED ITEMS

K. Metal Forms:

Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete. Use Setting Drawings, templates, diagrams, instruction, and directions furnished with items to be embedded. Install embedded plates, accurately located, to elevations required.

2.3 REMOVING AND REUSING FORMS

A. General: Formwork, for sides of beams, and similar parts of the Work, that does not support weight of concrete may be removed after cumulatively curing at not less than 50 deg F (10 deg C) for 24 hours after placing concrete provided concrete is hard enough to not be damaged by form-removal operations and provided curing and protection operations are maintained.

B. Clean and repair surfaces of forms to be reused in the Work. Split, frayed, delaminated, or otherwise damaged form-facing material will not be acceptable for exposed surfaces. Apply new form-release

C. When forms are reused, clean surfaces, remove fins and laitance, and tighten to close joints. Align and secure joints to avoid offsets. Do not use patched forms for exposed concrete surfaces unless

2.4 STEEL REINFORCEMENT

A. General: Comply with CRSI's "Manual of Standard Practice" for placing reinforcement.

B. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing

C. Clean reinforcement of loose rust and mill scale, earth, ice, and other foreign materials.

D. Accurately position, support, and secure reinforcement against displacement. Locate and support reinforcement with bar supports to maintain minimum concrete cover. Do not tack weld crossing

1. Shop or field weld reinforcement according to AWS D1.4, where indicated.

E. Set wire ties with ends directed into concrete, not toward exposed concrete surfaces.

2.5 JOINTS

A. General: Construct joints true to line with faces perpendicular to surface plane of concrete.

2.6 CONCRETE PLACEMENT

Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections have been performed

B. Do not add water to concrete during delivery, at Project site, or during placement, unless approved

C. Before placing concrete, water may be added at Project site, subject to limitations of ACI 301.

1. Do not add water to concrete after adding high-range water-reducing admixtures to mix.

D. Deposit concrete continuously or in layers of such thickness that no new concrete will be placed on concrete that has hardened enough to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as specified. Deposit concrete to avoid segregation.

Deposit concrete in forms in horizontal layers no deeper than 24 inches (600 mm) and in a manner to avoid inclined construction joints. Place each layer while preceding layer is still plastic, to avoid

1. Consolidate placed concrete with mechanical vibrating equipment. Use equipment and procedures for consolidating concrete recommended by ACI 309R.

2. Do not use vibrators to transport concrete inside forms. Insert and withdraw vibrators vertically at uniformly spaced locations no farther than the visible effectiveness of the vibrator. Place vibrators to rapidly penetrate placed layer and at least 6 inches (150 mm) into proceeding layer. Do not insert vibrators into lower layers of concrete that have begun to lose plasticity. At each insertion, limit duration of vibration to time necessary to consolidate concrete and complete embedment of reinforcement and other embedded items without causing mix constituents to

Cold-Weather Placement: Comply with ACI 306.1 and as follows. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.

When air temperature has fallen to or is expected to fall below 40 degrees F (4.4 degrees C), uniformly heat water and aggregates before mixing to obtain a concrete mixture temperature

Do not use frozen materials or materials containing ice or snow. Do not place concrete on frozen subgrade containing frozen materials.

Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators, unless otherwise specified and approved in mix designs.

G. Hot-Weather Placement: Place concrete according to recommendations in ACI 305R and as follows, when hot-weather conditions exist:

Cool ingredients before mixing to maintain concrete temperature below 90 degrees F (32 degrees C) at time of placement. Chilled mixing water or chopped ice may be used to control temperature, provided water equivalent of ice is calculated to total amount of mixing water. Using liquid nitrogen to cool concrete is Contractor's option.

2. Cover steel reinforcement with water-soaked burlap so steel temperature will not exceed ambient air temperature immediately before embedding in concrete. Fog-spray forms, steel reinforcement, and subgrade just before placing concrete. Keep subgrade moisture uniform without standing water, soft spots, or dry areas.

2.7 FINISHING FORMED SURFACES

A. Rough-Formed Finish: As-cast texture imparted by form-facing material with tie holes and defective areas repaired and patched. Remove fins and other projections exceeding ACI 347R limits for class

B. Smooth-Formed Finish: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams. Repair and patch tie holes and defective areas. Remove fins and other projections exceeding 1/8 inch (3 mm) in height.

Apply to concrete surfaces exposed to public view or to be covered with a coating or covering material applied directly to concrete, such as waterproofing, damp proofing, veneer plaster, or

Do not apply rubbed finish to smooth-formed finish.

Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces, unless otherwise indicated.

MISCELLANEOUS CONCRETE ITEMS

A. Filling In: Fill in holes and openings left in concrete structures, unless otherwise indicated, after work of other trades is in place. Mix. place, and cure concrete, as specified, to blend with in-place construction. Provide other miscellaneous concrete filling indicated or required to complete Work.

B. Steel Pan Stairs: Provide concrete fill for steel pan stair treads, landings, and associated items. Castin inserts and accessories as shown on Drawings. Screed, tamp, and trowel finish concrete surfaces.

2.9 CONCRETE PROTECTION AND CURING

General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and with recommendations in ACI 305R for hot-weather protection during curing.

Formed Surfaces: Cure formed concrete surfaces, including underside of beams, supported slabs, and other similar surfaces. If forms remain during curing period, moist cure after loosening forms. If removing forms before end of curing period, continue curing by one or a combination of the following 1.8 STEEL REINFORCEMENT

1.9 CONCRETE MATERIALS

A. Reinforcing Bars: ASTM A-615, Grade 60.

B. Plain-Steel Wire: ASTM A-82, as drawn.

C. Plain-Steel Welded Wire Fabric: ASTM A-185, fabricated from as-drawn steel wire into flat sheets.

A. Portland Cement: ASTM C-150, Type I or Type III.

B. Fly Ash: ASTM C-618, Class C (maximum of 20% cement replacement).

C. Normal-Weight Aggregate: ASTM C-33, uniformly graded, with maximum aggregate size of 1-1/2".

D. Water: Potable and complying with ASTM C-94.

The use of admixtures shall be coordinated between the batch plant and the concrete contractor to adjust for conditions in the batch plant, atmospheric conditions, and jobsite conditions including size of pour, travel time between batch plant and jobsite, and time estimated for completing pour and

The specific effects produced by chemical admixtures may vary with the properties and proportions of the other ingredients of the concrete including the cement, pozzolan, aggregates, air-entraining admixture, and the mixture proportions, batching sequence, and other physical conditions proposed

C. Admixtures to conform to ASTM standards and include:

Air entrainment (ASTM C260)

Accelerators (ASTM C 494, Type C)

Retarders (ASTM C 494, Type B) Water-reducing and retarding admixture (ASTM C 494, Type D) Water-reducing and accelerating admixture (ASTM C 494,Type E)

Water-reducing, high range admixtures (ASTM C 494, Type F) Water-reducing, high range, and retarding (ASTM C 494, Type G)

1.11 RELATED MATERIALS

A. Joint-Filler Strips: ASTM D 1751, asphalt-saturated cellulosic fiber.

B. Bonding Agent: ASTM C 1059, Type II, non-redispersible, acrylic emulsion or styrene butadiene

A. Prepare design mixes for each type and strength of concrete determined by either laboratory trial mix or field test databases, as follows:

Proportion normal-weight concrete according to ACI 211.1 and ACI 301. Proportion lightweight concrete according to ACI 211.2, and ACI 301.

Use a qualified independent testing agency for preparing and reporting proposed mix designs for the laboratory trial mix basis. Use a qualified independent testing agency to verify field test data and that existing ingredients in plant are same as in the test sample.

C. Proportion normal-weight concrete mix as follows:

Compressive Strength (28 Days): 3000 psi.

cement in concrete as follows:

Maximum Slump: 5 inches. Maximum Slump for Concrete Containing High-Range Water-Reducing Admixture: 8 inches after admixture is added to concrete with 2 to 4 inch slump.

Minimum of 5 sacks of cement per cubic yard of concrete. Cementitious Materials: Limit percentage, by weight, of cementitious materials other than Portland

Fly Ash: 20 percent.

Combined Fly Ash and Pozzolan: 20 percent.

Limit Water-soluble, chloride-ion content in hardened concrete to 0.15 percent by weight of cement. Admixtures: Use admixtures according to manufacturers' written instructions.

1. Use water-reducing and retarding admixture when required by high temperatures, low humidity, or other adverse placement conditions.

1.13 CURING MATERIAL

For all slabs except those on which additional concrete or other toppings are to be bonded, use a water-based acrylic membrane curing compound that has a maximum volatile organic compound (VOC) rating of 350 g/L (3 lbs/gal.) complying with ASTM C309, Type I, Class B. Available products include VOCOMP-20 (W. R. Meadows, Inc.), MasterKure CC 160WB (BASF Construction Materials), Dress and Seal WB (L & M Construction Chemicals, Inc.), or approved equal.

For slabs having bonded toppings, use "Orange Label Sisalkraft" paper as manufactured by Fortifiber Building Systems Group.

1.14 FABRICATING REINFORCEMENT

A. Fabricate steel reinforcement according to CRSI's "Manual of Standard Practice".

1.15 CONCRETE MIXING

Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete according to ASTM C-94, and furnish batch ticket information

Project-Site Mixing: Measure, batch, and mix concrete materials and concrete according to ASTM C-94. Mix concrete materials in appropriate drum-type batch machine mixer.

1. For mixer capacity for 1 cu. yd. (0.76 cu. m) or smaller, continue mixing at least one and onehalf minutes, but not more than five minutes after ingredients are in mixer, before any part of

identification name and number, date, mix type, mix time, quantity, and amount of water added.

2. For mixer capacity larger than 1 cu. yd. (0.76 cu. m), increase mixing time by 15 seconds for each additional 1 cu. yd. (0.76 cu. m). 3. Provide batch ticket for each batch discharged and used in the Work, indicating Project

1.16 ADHESIVE ANCHORING SYSTEM

Adhesive for anchoring dowels and reinforcing steel shall have been tested and qualified in accordance with ICC-ES AC58 and ICC-ES AC308.

Record approximate location of final deposit in structure.

Pre-Approved Adhesives Include:

Simpson Strong-Tie SET-XP (ICC-ES ESR-2508).

to insure installer(s) are qualified and are following the manufacturer's instructions.

Hilti Hit-Hy 200 Safe Set Adhesive Anchoring System (ICC-ES ESR-3187).

Installation shall be in accordance with manufacturer's instructions including but not limited to hole

Dowels and Reinforcement subject to tension shall be subject to jobsite certification by epoxy supplier

PART 2 - EXECUTION

2.1 FORMWORK

Design, erect, shore, brace, and maintain formwork, according to ACI 301, to support vertical lateral, static, and dynamic loads, and construction loads that might be applied, until concrete structure can support such loads.

Construct formwork so concrete members and structures are of size, shape, alignment, elevations, and position indicated, within tolerance limits of ACI 117.

C. Limit concrete surface irregularities, designated by ACI 347R as abrupt or gradual, as follows: 1. Class B, 1/4 inch (6mm).

D. Construct forms tight enough to prevent loss of concrete mortar. Fabricate forms for easy removal without hammering or prying against concrete surfaces. Provide

inclined surfaces steeper than 1.5 horizontal to 1 vertical. Kerf wood inserts for forming keyways, reglets, recesses, and the like, for easy removal. Do not use rust-stained steel form-facing material.

Chamfer exterior corners and edges of permanently exposed concrete. Form openings, chases, offsets, sinkages, keyways, reglets, blocking, screeds, and bulkheads required in the Work. Determine sizes and locations from trades providing such items.

crush or wrecking plates where stripping may damage cast concrete surfaces. Provide top forms for

SECTION 02 32 00 SUBSURFACE AND SOIL CONDITIONS

PART 1 - GENERAL

1.1 SCOPE

A. The Owner has employed an independent Geotechnical Consultant and Testing Laboratory to perform a soil and foundation investigation for the site of this Project. The report of their findings may be examined at the offices of the Architect.

1.2 USE OF DATA

The information and recommendations contained in the soils report were obtained by the Owner only for the use of the Architect and the Structural Engineer in the design and preparation of the Contract Documents for this Project.

B. The soils report IS NOT a part of the Contract Documents. The report is available for examination by bidders, but is not a warranty of subsurface conditions at the site.

In accordance with the Instructions to Bidders, bidders are encouraged to visit the site and acquaint themselves with all existing conditions prior to bidding. Bidders may, at their own expense, perform their own subsurface investigations; however, all such investigations must be performed under time schedules and arrangements approved in advance by the Architect.

1.3 TESTING AND INSPECTIONS

A. Refer to SECTION 31 23 16 -- Structural Earthwork for Building Foundations

END OF SECTION 02 32 00

CAST-IN-PLACE CONCRETE **SECTION 03 30 01**

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section specifies cast-in-place concrete, including formwork, reinforcement, concrete materials, mix design, placement procedures, and finishes.

B. Related Sections include the following:

Shop Drawing Submittals:

Structural Quality Control & Testing

Section 01 30 00 Structural Engineer: Shop Drawings/Field Visits Section 01 33 41

Section 01 14 10

1.3 DEFINITIONS

Cementitious Materials: Portland cement alone or in combination with one or more of blended hydraulic cement, fly ash and other pozzolans, and silica fume.

1.4 SUBMITTALS

A. Product Data: For each type of manufactured material and product indicated.

B. Design Mixes: Independent Laboratory to submit mix designs. Include alternate mix design when characteristics of material, project conditions, weather, test results, or other circumstances warrant

type of concrete. The results of two 7-day compression tests shall be submitted with proposed mix design prior to placement of concrete on the job. Subsequently, results of two 28-day compression test shall be submitted and the strength shall be at least 25% greater than the specified minimum strength for concrete placed on the job. Existing Mix Designs: The laboratory may submit data of previously prepared "standard" mix

Using the proposed mix design, the laboratory shall make one set of four test cylinders for each

a. The laboratory prepared the mix design in strict accordance with the provisions of this section of the project specifications. The mix design shall have been prepared within the preceding six months. Documentation shall not reference any specific construction project.

The laboratory shall submit written certification that the materials used in the submitted mix designs are currently stocked at the batching plant.

Details of fabrication, bending, and placement, prepared according to ACI 315, "Details and Detailing of Concrete Reinforcement." Include material, grade, bar schedules, stirrup spacing, bent bar diagrams, arrangement, and supports of concrete reinforcement. Include special

D. Formwork Shop Drawings: Design and engineering of formwork are Contractor's responsibility.

reinforcement required for openings through concrete structures.

Material Test Reports: From a qualified testing agency indicating and interpreting test results for compliance of the following with requirement indicated, based on comprehensive testing of current

Material Certificates: Signed by manufacturers certifying that each of the following items (if used)

complies with requirements:

Cementitious materials and aggregates. Form materials and form-release agents.

C. Steel Reinforcement Shop Drawings:

Steel reinforcement and reinforcement accessories. Admixtures Curing materials

Bonding agents. Adhesives. Repair materials.

> 1.5 QUALITY ASSURANCE A. Installer Qualifications: An experienced installer who has completed concrete Work similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with

a record of successful in-service performance. B. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the

C. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products complying with ASTM C94 requirements for production facilities and equipment.

Manufacturer must be certified according to the National Ready Mixed Concrete Associations Certification of Ready Mixed Concrete Production Facilities.

D. Testing Agency Qualifications: An independent testing agency, acceptable to authorities having

jurisdiction, qualified according to ASTM C 1.77 and ASTM E 329 to conduct the testing indicated, as documented according to ASTM E 548. Personnel conducting field tests shall be qualified as ACI Concrete Field Testing Technician, Grade 1, according to ACI CP-1 or an equivalent certification

E. Source Limitations: Obtain each type or class of cementitious material of the same brand from the same manufacturer's plant, each aggregate from one source, and each admixture from the same

F. ACI Publications: Comply with the following, unless more stringent provisions are indicated:

ACI 301, "Specification for Structural Concrete." 2. ACI 117, "Specifications for Tolerances for Concrete Construction and Materials."

A. Deliver, store, and handle steel reinforcement to prevent bending and damage.

1.7 FORM-FACING MATERIALS

1.6 DELIVERY, STORAGE, AND HANDLING

Rough-Formed Finished Concrete: Plywood, lumber, metal, or another approved material. Provide lumber dressed on at least two edges and one side for tight fit.

B. Chamfer Strips: Wood, metal, PVC, or rubber strips, 3/4 by 3/4 inch (19 by 19 mm), minimum.

C. Form-Release Agent: commercially formulated form-release agent that will not bond with, stain, or adversely affect concrete surfaces and will not impair subsequent treatments of concrete surfaces. Formulate form-release agent with rust inhibitor for steel form-facing materials.

EVISIONS:

Rockgate

20

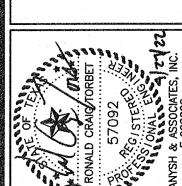
78227

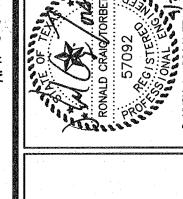
 \succeq

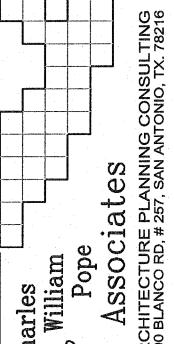
Antonio,

Sal

Ö







DATE: 04.27.22 JOB NO: 37692 DRAWN BY: R.G.

SHEET NUMBER:

STRUCTURAL EARTHWORK FOR BUILDING FOUNDATIONS Section 01 14 10 Section 01 14 11 Section 01 14 20 Extent of earthwork in this section is limited to the requirements of construction of structural

1.3 REFERENCES ASTM E 1643-11- Selection, Design, Installation and Inspection of Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs.

B. ASTM E-1745 -11 Standard Specification for Plastic Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs: Exceeds Class A.

C. ASTM E-96 - Standard Test Methods for Water Vapor Transmission of Materials

D. GRI-GS-1-86 - Puncture Resistance

E. ASTM D 1709 - Standard Test Methods for Puncture Resistance.

F. ASTM D 638 - Standard Test Methods for Tensile Properties of Plastic; 1996

G. ASTM D 1790 - Standard Test Methods for Low Temperature Brittleness

H. ACI 02.2R-06 Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials

1.4 SUBMITTALS

Refer to Architect for submittal procedures.

sample strips of the joint tape.

Product Data: Provide manufacturer's printed product literature and description, including tests and

standards that have been performed on the vapor barrier material. Samples: Submit two, 8 1/2 x 11 inch in size, illustrating the vapor barrier and two (2) 8 1/2 inch long

One each of all accessories that will be used in the installation.

E. Verification by Independent testing labs indicating that materials comply with specified requirements.

F. Certificates: Certify that products of this section meet or exceed specified requirements. G. Manufacturer's Instructions: Indicate complete installation instruction.

1.5 QUALITY ASSURANCE

Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.

Installer Qualifications: Company specializing in performing the work of this section with minimum five years of experience.

1.6 DELIVERY, STORAGE, AND PROTECTION

A. Deliver Vapor Barrier to project site in manufacturers' original container/packaging.

1.7 PROJECT CONDITIONS

A. Coordinate Vapor Barrier installation with size, location and installation of service utilities.

B. Sequence installation to ensure utility connections are achieved in an orderly and expeditious manner.

PART 2 - PRODUCTS

A. Basis of Design: Stego Wrap 15- mil Vapor Barrier by Stego Industries LLC, 949.257.4100

Approved Alternate: Vapor Guard by Reef Industries, 713-507-4250. www.reefindustries.com.

C. Approved Alternate: PMPC by WR Meadows

Alternates shall be equal in all specifications and applications

2.2 MATERIALS

Vapor barrier shall have all of the following qualities: Maintain permeance of less than 0.01 Perms [grains/(ft2 ?hr ?inHg)] as tested in accordance with mandatory conditioning tests per ASTM E1745 Section 7.1 (7.1.1-7.1.5).

Other performance criteria: Strength: ASTM E1745 Class A. Thickness: as shown on plans

3. Provide third party documentation that all testing was performed on a single production roll per ASTM E1745 Section 8.1 Extruded polyolefin membrane with thickness matching that specified on the plan notes.

iviateriai manutactured with ISO certified virgin resins 6. Sheet polyethylene is not an acceptable substitution.

2.3 ACCESSORIES

High Density Polyethylene Tape with pressure sensitive adhesive: Minimum width 4". a. Construct pipe boots from vapor barrier material and pressure sensitive tape per

manufacturer's instructions. B. Penetration Prevention: Do not puncture vapor barriers. Use a fixed-elevation point-to-point guide screed system with non-penetrating elevation guides and vapor barrier-safe interior forming and interior form bracing applications with non-penetrating devices.

 Penetration Prevention Beast Foot by Stego Industries LLC, (877) 464-7834 www.stegoindustries.com or Vapor Barrier-Safe Screed System) Beast Screed by Stego Industries, LLC, (877) 464-7834

C. Perimeter/Edge Seal: Edges to be sealed to concrete.

Sealing the perimeter with one-sided seam tape is prohibited. Crete Claw by Stego Industries LLC, (877) 464-7834 www.stegoindustries.com or equal

www.stegoindustries.com or equal

2.4 CE QUALITY CONTROL AND TESTS

A. Reference Standards: Water Vapor Retarders Used in Contact with Earth under Concrete Slabs: Exceeds Class A

According to ASTM E 1745. Water Vapor Transmission Rates: 0.006 gr./ft2/hr. according to ASTM E 96. Permeance Rating Result: 0.01 gr./ft2/hr. according to ASTM E96

Puncture Resistance Result: 204.0-lbs/sq. ft. according to GRI-GS-1-86.

Puncture Resistance Result: 1972.5 grams according to ASTM D 1709.

Tensile Strength Result: 54.2 lbs./MD and 55.5lbs./CMD according to ASTM D 638. Low Temperature Brittleness: Pass according to ASTM D1790.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that conditions are acceptable for the placement of the vapor barrier.

3.2 PREPARATION

Ensure that subsoil is approved by Structural Engineer. Vapor Barrier may be installed over an aggregate, sand or tamped earth base.

3.3 INSTALLATION

A. Install Vapor barrier per manufacturer's instructions, illustrations and ASTM E1643-94-Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth Concrete Slabs.

3.4 INTERFACE WITH OTHER WORK

A. Coordinate work of all other trades related to the slab base and utility services.

3.5 CLEANING, AND PROTECTION

A. Clean all contaminants from surface.

B. Protect installed vapor barrier from subsequent damaging construction operations.

C. Do not permit vehicular/heavy equipment traffic over unprotected vapor barrier.

END OF SECTION 07 26 20

SECTION 06 19 50 FABRICATED WOOD TRUSSED RAFTERS

PART 1 - GENERAL

A. Fabricate, supply and erect wood trusses as shown on the Drawings with steel connectors and gussets. Provide lateral support for trusses.

1.2 QUALITY ASSURANCE

A. Metal Connector-Plate Manufacturer Qualifications: A manufacturer that is a member of TPI and that complies with quality-control procedures in TPI 1 for manufacture of connector plates. Manufacturer's responsibilities include providing professional engineering services needed to assume engineering responsibility.

analysis by a qualified Texas professional engineer.

Engineering Responsibility: Preparation of Shop Drawings and comprehensive engineering

B. Truss Fabricator shall participate in a recognized quality-assurance program that complies with quality-control procedures in TPI 1 and that involves third-party inspection by an independent testing and inspecting agency.

1.3 CODES AND STANDARDS

Trusses shall be designed in accordance with ANSI/TPI 1, National Design Standard for Metal Plate Connected Wood Truss Construction and this specification. Where any applicable design feature is not specifically covered by ANSI/TPI 1 or this specification, design shall be in accordance with the applicable provisions of the latest edition of ANSI/AWC NDS - National Design Specification® (NDS®) for Wood Construction, and the International Building Code.

B. TPI DSB, "Recommended Design Specification for Temporary Bracing of Metal Plate Connected Wood Trusses."

C. TPI BCSI, "Building Component Safety Information: Guide to Good Practice for Handling, Installing, Restraining, & Bracing Metal Plate Connected Wood Trusses."

1.4 SHOP DRAWINGS AND PRODUCT DATA

A. Submit shop drawings prior to fabrication in accordance with Section 013341. Shop drawings to bear seal of Professional Engineer registered in Texas. Submit manufacturer's instructions on lateral

B. The shop drawings shall include, at a minimum, the following information: Building Code used for design, unless specified on Cover/Truss Index Sheet.

Slope or depth, span, and spacing. Location of all joints and support locations

Number of plies if greater than one. Required bearing widths.

Design loads as noted on drawings. Maximum Deflection Under Design Loads: a. Roof Trusses: Vertical deflection of 1/360

of span for live and snow loads and 1/240 of span for total loads Adjustments to wood member and metal connector plate design values for conditions of use. Maximum reaction force and direction, including maximum uplift reaction forces where

Metal connector plate type, manufacturer, size, thickness or gauge, and the dimensioned location of each metal connector plate except where symmetrically located relative to the joint Size, species, and grade for each wood member;

Truss-to-Truss connection and Truss field assembly requirements. Calculated span to deflection ratio and/or maximum vertical and horizontal deflection for live and for live plus dead load and KcR (creep factor) as applicable.

Maximum axial compression and tension forces in the Truss members. Fabrication tolerance per ANSI/TPI 1

Required Permanent Individual Truss Member Restraint location. Truss Designer

1.5 DELIVERY, STORAGE, AND HANDLING

A. Handle and store trusses to comply with recommendations in TPI BCSI, "Building Component Safety Information: Guide to Good Practice for Handling, Installing, Restraining, & Bracing Metal Plate Connected Wood Trusses. Store trusses flat, off of ground, and adequately supported to prevent lateral bending.

Protect trusses from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

PART 2 - PRODUCTS

METAL CONNECTOR PLATES

Metal connector plates shall be manufactured by a SBCA member plate manufacturer and shall conform to the requirements of ANSI/TPI 1. Shall be a minimum of 20 gauge, ASTM A-653, Grade 33, and galvanized coating shall meet or exceed G60.

LUMBER

A. Lumber used shall be identified by grade mark of a lumber inspection bureau or agency approved by the American Lumber Standards Committee Board of Review. Lumber shall meet the following

Minimum Properties: Chord lumber Allowable Bending Stress: 1,500 PSI Modulus of Elasticity: 1,600,000 PSI Minimum Properties: Web Lumber

a. Allowable Bending Stress: Modulus of Elasticity: Maximum moisture content 19% at time of fabrication.

2.3 MANUFACTURER

The following are approved truss manufacturers: FIVE STARR TRUSS FOXWORTH-GALBRAITH

AMERICAN TRUSS, LLC Any alternates shall be submitted for approval prior to submitting shop drawings.

PART 3 - EXECUTION

3.1 INSTALLATION, BRACING, REPAIRS

A. Apparent damage to Trusses, if any, shall be reported to Truss Manufacturer prior to erection.

Trusses shall be set and secured level and plumb, and in correct location. Each Truss shall be held in correct alignment until specified permanent restraint and bracing is installed.

Cutting and altering of Trusses is not permitted. If any Truss should become broken, damaged, or altered, written concurrence and approval by Truss Manufacturer/Engineer is required.

Concentrated loads shall not be placed on top of Trusses until all specified restraint and bracing has been installed and structural sheathing is permanently nailed in place. Specifically avoid stacking full oundles of construction materials or other concentrated loads on top of Trusses.

E. The Truss Submittal Package and any supplementary information provided by the Truss Manufacturer shall be provided by the Contractor to the individual or organization responsible for the installation of

F. Trusses shall be permanently restrained and braced in a manner consistent with good Building practices as outlined in BCSI and in accordance with the requirements of the Construction Documents. Trusses shall furthermore be anchored or restrained to prevent out-of-plane movement so as to keep all Truss members from simultaneously buckling together in the same direction. Such permanent lateral restraint shall be accomplished by: (a) anchorage to solid end walls; (b) permanent diagonal bracing in the plane of the web members; or (c) other suitable means.

Materials used in temporary and permanent restraint and bracing shall be furnished by Contractor.

END OF SECTION 06 19 50

SECTION 07 26 20 VAPOR BARRIER

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Installation of a vapor barrier under concrete slab.

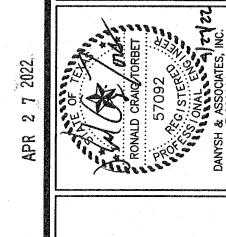
B. This vapor barrier shall be used in lieu of any vapor barrier of lesser thickness under the slab.

1.2 RELATED SECTIONS

 A. Concrete Forms and Accessories Section 03 30 01

 B. Concrete Reinforcement Section 03 30 01 C. C-I-P Concrete

Section 03 30 01 D. Structural Earthwork for Building Foundation Section 31 23 16



REVISIONS:

0

Ω

Rockgate

78227

 \succeq

Antonio,

SS

Ö

ates PLANNIN 257, SAN

DATE: 04.27.22 JOB NO: 37692 DRAWN BY: R.G. SHEET NUMBER:

CONTROLS AND EQUIPMENT NECESSARY FOR A COMPLETE AND FUNCTIONING SYSTEM. THE WORK INCLUDES BUT IS NOT NECESSARY LIMITED TO THE FOLLOWING:

- INSTALL ROOFTOP UNITS AND ROOF CAPS. INSTALL EXHAUST FANS
- SUPPLY & RETURN DUCTWORK SYSTEM WITH GRILLES, DIFFUSERS, FILTERS, AND DAMPERS.
- TEMPERATURE CONTROL SYSTEM INCLUDING LOW-VOLTAGE WIRING AND
- DUCT, PIPING, AND EQUIPMENT INSULATION, WHERE INDICATED HEREIN. ROOF CURBS, ROOFING AND FLASHING OF ROOF PENETRATIONS FOR
- EQUIPMENT NOTED. FANS AND MAKE-UP AIR UNITS.

SHOP DRAWINGS: SUBMIT 6 SETS OF EQUIPMENT/DUCT SUBMITTALS TO ARCHITECT/ENGINEER FOR APPROVAL.

EQUIPMENT INDICATED ON THE DRAWINGS OR AS REQUIRED FOR A COMPLETE INSTALLATION, SUCH AS DUCTWORK, EXHAUST FANS, SUPPLY AND RETURN DIFFUSERS. ETC. SHALL BE PROVIDED WITHIN THE SCOPE OF WORK OF THIS SECTION.

WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF THE COMPLETED PROJECT. EQUIPMENT PROVIDED BY MECHANICAL CONTRACTOR.

RECORD DOCUMENTS: PROVIDE AT THE TIME OF REQUEST FOR FINAL PAYMENT THE FOLLOWINGS DOCUMENTS:

1- LETTER OF GUARANTEE FROM THE CONTRACTOR.

2- MANUFACTURER'S PARTS DATA AND SERVICE INSTRUCTIONS ON ALL ITEMS OF EQUIPMENT.

3- MANUFACTURER'S GUARANTEES AND WARRANTIES.

INSTRUCTIONS TO THE OWNER: THE CONTRACTOR SHALL INSTRUCT THE OWNER OR THE OWNER'S REPRESENTATIVE IN THE PROPER OPERATION OF ALL EQUIPMENT. THE CONTRACTOR SHALL FURNISH TO THE OWNER ALL PAMPHLETS AND OTHER LITERATURE FURNISHED BY THE MANUFACTURER AND EXPLAIN THE PROPER OPERATING AND MAINTENANCE PROCEDURES.

DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC. SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS AS REQUIRED. FURNISH AND INSTALL ALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED. THE WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES OR ORDINANCES AND SUBJECT TO INSPECTION.

COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

EXTRA STOCK: PROVIDE TWO SETS OF REPLACEMENT FILTERS PER EACH INSTALLED FOR ALL THE ROOFTOP UNITS, AND OTHER EQUIPMENT AND DEVICES, AND PROVIDE A ITEMIZED LIST OF THE NUMBER, TYPE REQUIRED AND WHERE USED. OBTAIN RECEIPT FROM OWNER THAT THESE ITEMS HAVE BEEN DELIVERED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE.

EXHAUST FANS: FURNISH AND INSTALL EXHAUST FANS IN THE LOCATION AND OF THE SIZE AND CAPACITY SHOWN ON THE DRAWINGS. EXHAUST FANS SHALL BE CEILING CABINET IN-LINE EXHAUST FANS WITH PLASTIC HOUSING AND GRILL. SUPPORT FAN WITH VIBRATION ISOLATORS FROM ROOF STRUCTURE NOT FROM THE CEILING. PROVIDE TERMINATION CAP AS INDICATED ON THE DOCUMENTS. FANS SHALL BE DIRECT DRIVE WITH A SPEED CONTROL RELAY TO BALANCE THE FAN AT THE CFM'S SCHEDULED. FAN TO BE EQUIPED WITH INTERGRAL BACKDRAFT DAMPER AND SWITCHED LOCALLY AS INDICATED ON THE DOCUMENTS, APPROVED MANUFACTURERS ARE GREENHECK, COOK, AND PENN.

DUCT DIMENSIONS: UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON DRAWINGS ARE NET INSIDE CLEAR DIMENSIONS ON LINED DUCTS OR UNLINED SHEET METAL DUCTS.

SHEET METAL DUCTWORK: SHEETMETAL SHALL BE FABRICATED AND INSTALLED TO ASHRAE AND SMACNA STANDARDS. SHEETMETAL SHALL BE G-90 GALVANIZED SHEET STEEL OF LOCK-FORMING QUALITY, ASTM A-525. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. CONNECTIONS TO WALLS OR FLOORS SHALL BE AIRTIGHT WITH APPROVED WEATHERPROOF CAULKING. SEAL ALL DUCT SEAMS, TRANSVERSE AND LONGITUDINAL AIR-TIGHT. PROVIDE TURNING VANES AT ALL ELBOWS OR OFFSETS EXCEEDING 33 DEGREES.

TRAPEZE DUCT HANGERS: MINIMUM 1" X 2" X 1" X 18 GAGE CHANNELS WITH 1" X 18 GAGE STRAPS TO STRUCTURAL SUPPORT ABOVE.

ALL SUPPLY AND RETURN DUCTWORK SHALL HAVE THE FIRST TEN (10) FEET INTERNALLY LINED. THE REMAINING DUCT SHALL BE EXTERNALLY WRAPPED.

DUCT WRAP/ASJ INSULATION: (ON ALL SUPPLY, RETURN, AND ROUND RIGID SHEETMETAL DUCTWORK): PROVIDE 2" THICK FIBERGLASS ASJ DUCTWRAP WITH VAPOR SEAL ON ALL SHEETMETAL DUCT. INSULATION SHALL HAVE AN INSTALLED R-VALUE OF 5 OR GREATER WITH A K VALUE OF 0.28. ACCEPTABLE MANUFACTURERS ARE KNAUF, OWENS CORNING. JOHNS MANVILLE. INSULATION SHALL MEET THE LATEST ADOPTED IECC AND LOCAL

ALL DUCT INDICATED AS LINED SHALL BE INTERNALLY INSULATED WITH OWENS CORNING FIBERGLASS AEROFLEX DUCT WRAP, 2" THICK, TYPE B-150 INSULATION SHALL HAVE AN INSTALLED R-VALUE OF 5 OR GREATER WITH A A K VALUE OF 0.28. ACCEPTABLE MANUFACTURERS ARE KNAUF, OWENS CORNING, JOHNS MANVILLE. INSULATION SHALL MEET THE LATEST ADOPTED IECC AND AND LOCAL AMENDMENTS.

FLEXIBLE DUCT: PROVIDE FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH 1-1/2" THICK 1 PCF FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER / VAPOR BARRIER. FLEX DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50, AND SHALL BE RATED FOR 2" W.G. PRESSURE AND 0 TO 250 DEGREE TEMPERATURE. PROVIDE METAL ADJUSTABLE CLAMPING DEVICES, SCREW OPERATED. USE TWISTLOCK CONICAL TAP COLLARS AT CONNECTIONS INTO SHEET METAL DUCTWORK. DO NOT EXCEED 6 FEET IN LENGTH. FLEXMASTER 8M OR APPROVED EQUAL.

CEILING DIFFUSERS / RETURNS: INSTALL SUPPLY & RETURN DIFFUSERS/REGISTERS WITH DAMPER I SIZES, CAPACITIES, MATERIALS, AND PATTERN INDICATED ON THE DRAWINGS.

INSULATE REFRIGERANT SUCTION LINES WITH 1-1/2" CLOSED CELL FOAM PIPE INSULATION WITH SELF-ADHESIVE SEAMS. INSULATION SHALL BE EQUIVALENT TO ARMACELL AP ARMAFLEX.

ACCESS PANELS: PROVIDE HINGED ACCESS PANELS IN DUCTWORK WHERE REQUIRED FOR ACCESS TO EQUIPMENT. PROVIDE INSULATED ACCESS DOORS IN INSULATED DUCTWORK.

AUTOMATIC TEMPERATURE CONTROL: PROVIDE FOR EACH HVAC UNIT, LOW VOLTAGE SEVEN DAY PROGRAMABLE THERMOSTAT, TRANE, CARRIER, OR HONEYWELL T7300. UNIT SHALL INCORPORATE TWO STAGE HEAT/COOL AS APPLICABLE WITH AN AUTO CHANGEOVER FEATURE. HEATING AND COOLING SET POINTS SHALL BE OPERATOR ADJUSTABLE (THERMOSTATS BY UNIT SUPPLIER). THERMOSTAT SHALL HAVE NON-VOLATILE MEMORY WITH MINIMUM 24 HOUR MEMORY RETAINTION, 5 DEGREE F DEADBAND, AND LCD DISPLAY.WIRING SHALL COMPLY WITH SECTION 16000 REQUIREMENTS. PROVIDE RELAYS AS REQUIRED FOR UNIT INTERFACE. PROVIDE ALL TEMPERATURE CONTROL WIRING FOR ALL HVAC SYSTEMS, INCLUDING THERMOSTATS, SMOKE DETECTOR INTERLOCK ETC. INSTALL THERMOSTAT SAME HEIGHT AS LIGHT SWITCHES. COORDINATE FINAL LOCATION WITH ARCHITECT.

ROOF PENETRATIONS SHALL COMPLY WITH SMACNA AND NRCA STANDARDS.

CONTRACTOR TO PROVIDE TEST AND BALANCE NEBB CERTIFIED AIR BALANCE BY INDEPENDENT THIRD PARTY CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL HAVE ALL EQUIPMENT STARTED, ADJUSTED AND TESTED PRIOR TO BALANCING. KITCHEN HOOD AND ANY ASSOCIATED FANS SHALL BE INCLUDED IN TEST AND BALANCE. MECHANICAL CONTRACTOR SHALL ALSO HAVE THEIR TECHNICIAN ON SITE DURING BALANCE TO ADJUST OR CORRECT EQUIPMENT OPERATION DURING BALANCE.

GENERAL ROOF PLAN NOTES

- 1. CONTRACTOR SHALL CAREFULLY REVIEW CONTRACT DOCUMENTS INCLUDING DRAWINGS AND PROJECT MANUAL. INFORMATION REGARDING WORK OF THE VARIOUS TRADES AND SUBCONTRACTORS ARE DISPERSED THROUGHOUT THE DOCUMENTS AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE FULL SET OF DOCUMENTS.
- 2. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES ABOVE THE CEILING TO PROVIDE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF AND FUTURE CHANGES IN MECHANICAL EQUIPMENT. CONDUIT AND PIPE TO BE RUN THROUGH TRUSSES. COORDINATE SERVICE AND ACCESS POINTS ABOVE CEILING TO MINIMIZE REQUIRED ACCESS.
- 3. VERIFY EXACT LOCATION OF ALL HVAC EQUIPMENT WITH HVAC CONTRACTOR PRIOR TO COMMENCING ANY WORK.
- 4. ALL EQUIPMENT (RECEPTACLES, DISC. SWITCHES, ETC.) SHALL BE WEATHERPROOF.
- 5. ALL FUSES FOR HVAC UNITS SHALL BE SIZED AS REQUIRED BY MANUFACTURER'S NAMEPLATE ON EQUIPMENT. FUSES SHALL BE CURRENT LIMITING, TIME DELAY BUSSMAN FRN-R OR EQUAL BY GOULD SHAWMUT,
- 6. ALL CONDUIT SHALL BE RUN CONCEALED BELOW ROOF, PROVIDE WATERTIGHT PITCH POCKETS AS REQUIRED.
- 7. REFER TO HVAC DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS. PROVIDE ALL CONTROL CONDUIT AND WIRING AS REQUIRED FOR INTERLOCKING FANS, MOTORS, ETC. AS INDICATED ON THE HVAC
- 8. ALL DEVICES INSTALLED ON ROOF TOP EQUIPMENT SHALL BE MOUNTED ON A NON- REMOVABLE PANEL OF THE EQUIPMENT. THIS LOCATION SHALL BE COORDINATED WITH THE MECHANICAL OR PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- 9. ROOF DECK PENETRATIONS: CONTRACTOR SHALL SECURE LANDLORD APPROVAL FOR ALL BUILDING ROOF DECK PENETRATIONS. REQUESTS SHALL BE ON A SCALED ROOF PLAN SHOWING EXACT LOCATION & SIZE OF PENETRATION & INCLUDE DETAILS OF MOUNTING, FLASHING & SEALING. CONTRACT WITH THE LANDLORD'S ROOFING CONTRACTOR TO PERFORM ALL WORK AT THIS CONTRACTOR'S SOLE EXPENSE, CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ROOFTOP EQUIPMENT, NEW ROOF PENETRATIONS, REMOVAL OF EXISTING ROOFTOP EQUIPMENT & INSTALLATION OF ALL ROOFTOP EQUIPMENT WITH THE LANDLORD.

GENERAL ENERGY NOTES:

THERMOSTATIC CONTROLS MUST HAVE A 5deg DEADBAND OR HAVE MANUAL CHANGEOVER BETWEEN HEATING AND COOLING.

PROVIDE AUTOMATIC CONTROLS: SETBACK TO 55deqF (HEAT) AND 85deqF (COOL); 7-DAY CLOCK, 2-HOUR OCCUPANT OVERRIDE, 10-HOUR BACKUP IN THE EVENT OF A POWER

OUTDOOR AIR SUPPLY AND EXHAUST DUCTS SHALL BE PROVIDED WITH AUTOMATIC MEANS TO REDUCE AND SHUT OFF AIRFLOW WITH THE EXCEPTION FOR SYSTEM DESIGNED FOR CONTINUOUS OPERATION OR SYSTEM WITH AN FLOW RATE LESS THAN 3,000 CFM; SYSTEMS WITH READILY ACCESSIBLE MANUAL DAMPERS: OR RESTRICTED BY HEALTH AND LIFE SAFETY CODES.

ALL JOINTS. LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS OR TAPES. TAPES AND MASTICS USED TO SEAL DUCTWORK SHALL BELISTED AND LABELED IN ACCORDANCE WITH UL181A OR UL181B. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEMS SHALL BE SEALED AND MECHANICALLY FASTENED. DUCT TAPE IS NOT PERMITTED AS A SEALANT OF ANY METAL DUCTS.

INSULATION SHALL BE PROVIDED FOR PIPING AS NOTED IN THE TABLE BELOW. PIPING INSULATION SHALL BE PROVIDED FOR RETURN CIRCULATION HOT WATER SYSTEM WITH 1 OR R-4 INSULATION. THE FIRST 8' OF PIPING IN NONCIRCULATING SYSTEMS SERVED BY EQUIPMENT W/O INTEGRAL HEAT TRAPS SHALL BE INSULATED WITH 5" OR R-4 INSULATION.

WATER HEATING EQUIPMENT NOT SUPPLIED WITH INTEGRAL HEAT TRAPS AND SERVING NONCIRCULATING SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING AS ASSOCIATED WITH THE EQUIPMENT.

AUTOMATIC CIRCULATING HOT WATER SYSTEMS OR HEAT TRACE SHALL HAVE TIME SWITCHES THAT ARE CAPABLE OF BEING SET TO TURN OFF THE SYSTEM.

MINIMUM PIPE	INSULATIO	N (inch)	MINIMUM DUCT INSULATION (R)							
	NORMINAL	PIPE DIA.								
FLUID	≤ 1.5"	> 1.5"	UNCONDITIONED SPACE ≥ 6							
STEAM	1-1/2	3-1/2	OUTSIDE BLDG. ENVELOPE ≥ 8							
HOT WATER	1	1-1/2	EXCEPTIONS:							
CHILL WATER or REFRIGERANT	1	1	1. WHEN LOCATED WITHIN EQUIPMENT. 2. WHEN DESIGN TEMP. DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15°F.							

SYSTEMS START-UP REQUIREMENTS

CONTRACTOR SHALL PROVIDE AN EQUIPMENT OPERATION CHECK (EOC). EOC TO PROVIDE VERIFICATION AND DOCUMENTATION OF EQUIPMENT CONDITION, INTEGRITY OF INSTALLATION AND OPERATIONAL PERFORMANCE WITH REGARD TO THE SPECIFICATIONS. IT SHALL ALSO INCLUDE ALL ASSOCIATED COMPONENTS PROVIDED BY MANUFACTURER. THE FOLLOWING EQUIPMENT AND INSTALLATION INTEGRITY CHECKS SHALL BE PERFORMED AS PART OF AN EOC. ANY INSTALLATION AND EACH OF AN EXCLUSIVE AND SHALL BE NOTED AND ANY FACTORY DEFECTS SHALL BE REPAIRED. A REPORT FOR EACH UNIT ALONG WITH A SUMMARY REPORT FOR THE JOB SITE WILL BE PROVIDED TO THE OWNER AND ENGINEER UPON COMPLETION.

JOB SITE REQUIREMENTS PRIOR TO EOC:

- COMPLETE INSTALLATION OF ROOFTOP UNIT PER MECHANICAL DRAWINGS, SPECIFICATIONS AND THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION
- ROOFTOP UNIT MUST BE STARTED UP AND RUNNING 24 HOURS PRIOR TO
- UNIT'S RETURN AIR FILTERS MUST BE NEW AND AT LEAST EQUIVALENT TO FACTORY PROVIDED FILTERS.
- ALL FIELD INSTALLED HOODS ACCESSORIES MUST BE INSTALLED AND OPERATIONAL.
- UNIT INSTALLATION CHECK:
 - RECORD RTU #, UNIT C/N, UNIT MODEL #, AND UNIT SERIAL # CHECK CURB INSTALLATION INCLUDING VIBRATION ISOLATION AND WIND OR SEISMIC RESTRAINTS. VERIFY PER OWNER SPECIFICATIONS AND THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - CHECK UNIT CLEARANCES AND VERIFY INSTALLATION PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.

GAS HEATING SYSTEM (WHEN SPECIFIED)

7. ELECTRICAL HEAT SYSTEM CHECK: (WHEN SPECIFIED):

THERMOSTAT/UNIT CONTROLS SYSTEM CHECK:

9. INDOOR AIR QUALITY SYSTEM CHECK:

10. OUTDOOR AIR ACCESSORY CHECK:

12. DUCT SYSTEMS AND AIR DISTRIBUTION:

11. CONTROL CHECK:

13. EXHAUST FAN(S):

SIGNATURE:

A. RECORD FUEL TYPE.

CHECK INSTALLATION OF INTAKE AND EXHAUST HOODS. VERIFY PER THE ROOFTOP UNIT

CHECK AND RECORD INCOMING GAS PRESSURE

CHECK MANIFOLD GAS PRESSURE FROM THE OUTLET OF THE BAS VALVE(S) PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATIONS.

CHECK AND RECORD AMP DRAW OF THE HEATING ELEMENTS.

CHECK HEATING SECTION OPERATION. RECORD TEMPERATURE RISE THRU UNIT IN FULL HEATING OPERATION PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATIONS.

RECORD THERMOSTAT OR DDC SYSTEM MAKE, MODEL AND SERIAL NUMBER.

VERIFY CLASS 2 CONTROLS WIRING INSTALLATION TO TERMINAL BOARD OF UNIT.

C. VERIFY THAT REMOTE SENSORS ARE OPERATIONAL

PERFORM COOLING SIMULATION TEST. VERIFY COOLING STAGES PER OWNER'S SPECIFICATIONS.

PERFORM HEATING SIMULATION TEST. VERIFY HEATING STAGES PER OWNER'S SPECIFICATIONS.

PERFORM VENTILATION SIMULATION TEST. VERIFY VENTILATION OPERATION PER OWNER'S

CHECK AND RECORD CONDITION AND TYPE OF

CHECK OPERATION OF ECONOMIZER OR MOTORIZED OUTDOOR AIR DAMPER BY DRIVING IT FULL OPEN

RECORD MINIMUM DAMPER POSITION AND ENTHALPY SETTING (IF PROVIDED).

CHECK ECONOMIZER CONTROL BOARD SETTINGS PER OWNER SPECIFICATIONS. RECORD SETTING.

CHECK OPERATION OF BAROMETRIC RELIEF DAMPER

CHECK OPERATION OF POWER EXHAUST IF INSTALLED. CHECK MOTOR AMP DRAW PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION

VERIFY COMPLETE INSTALLATION/OPERATION OF SMOKE DETECTOR/FIRE ALARM INTERFACE.

VERIFY INSTALLATION CONFORMS TO DESIGN AND ALL PIECES OF AIR DISTRIBUTION, DUCTWORK, DIFFUSERS AND GRILLES ARE COMPLETE AND PROPERLY INSTALLED.

VERIFY ALL MANUAL VOLUME DAMPERS ARE IN FULL OPEN OR NEUTRAL POSITION.

VERIFY PROPER INSTALLATION/OPERATION AND FAN

PLEASE DATE AND INITIAL EACH ITEM AS VERIFIED. COMPLETED VERIFICATION CHECK LIST IS INCLUDED IN OUR REPORT TO THE OWNER AND MUST BE RETURNED PRIOR TO SCHEDULING ARRIVAL OF HVAC SYSTEMS TEST DATE.

THE HVAC INSTALLER IS REQUIRED TO BE ON SITE FOR THE TWO (2) DAYS THAT THE ITC IS PERFORMING THEIR WORK IN ORDER TO CORRECT ANY PUNCH LIST ITEMS THAT MAY EXIST. SHOULD RETURN TRIPS BECOME NECESSARY AFTER THE INITIAL TWO (2) DAYS, ANY RETEST COST INCURRED BY THE ITC SHALL BECOME THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE ESTIMATED COST IS \$1,000.00 PER DAY.

_ END OF SECTION _

A. VERIFY COMPLETE INSTALLATION/OPERATION OF ALL THERMOSTATS AND TIME CLOCKS IF UTILIZED.

VERIFY CO²SENSORS ARE OPERATIONAL

SPECIFICATIONS.

MANUFACTURER'S INSTALLATION INSTRUCTIONS.

CHECK INSTALLATION OF GAS UNIONS.

G. CHECK OPERATION OF TEMPERATURE LIMIT.

C. CHECK OPERATION OF TEMPERATURE LIMIT.

CHECK REFRIGERANT PRESSURES OF EACH

- CHECK DOOR ALIGNMENT AND ADJUST AS NECESSARY. CHECK UNIT INSTALLATION IS SECURE AND CLEAN.
- CHECK INSTALLATION OF CONDENSATE TRAP AND DRAIN LINES PER THE PROJECT SPECIFICATIONS, DRAWING DETAILS AND ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTION.
- CHECK AND NOTE INSTALLATION OF ANY ROOFTOP UNIT MANUFACTURER'S PROVIDED ACCESSORIES PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- CHECK CLEANLINESS OF UNIT AND AREA AROUND IT. DISPOSE OF ANY DEBRIS FOUND.
- ELECTRICAL SYSTEM CHECK:
 - CHECK AND RECORD INCOMING POWER SUPPLY. VERIFY PER THE ROOFTOP UNIT MANUFACTURER'S
 - VERIFY INSTALLATION AND PROPER SIZING OF ELECTRICAL DISCONNECT OR CIRCUIT BREAKER INCLUDING WIRE SIZE.
 - CHECK ELECTRICAL CONNECTIONS AND TIGHTEN AS

 - VERIFY INSTALLATION OF WIRING TO 120V CONVENIENCE OUTLET (IF APPLICABLE).

 - CHECK AND RECORD UNIT'S CONTROL TRANSFORMER(S) SECONDARY VOLTAGE. ADJUST PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATIONS.
- INTEGRATED MODULAR CONTROLLER CHECK:
 - VERIFY LED HEARTBEAT ON ALL THE ROOFTOP UNIT MANUFACTURER'S PROVIDED CONTROL
 - RECORD HARDWARE AND SOFTWARE VERSIONS OF ALL PROVIDED CONTROL BOARDS.

 - VERIFY DIP SWITCHES ON ALL CONTROL BOARDS ARE SET FOR OWNER SPECIFICATIONS PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION
 - VERIFY ALL THE ROOFTOP UNIT MANUFACTURER'S PROVIDED TEMPERATURE SENSORS READINGS ARE
- - CHECK BLOWER PULLEY SEY SCREWS FOR PROPER TORQUE. ADJUST AS NEEDED.
 - CHECK BELT TENSION AND ALIGNMENT AND ADJUST AS NEEDED.
 - START UNIT INDOOR BLOWER TO CHECK ROTATION CORRECT AS NEEDED. VERIFY AND DRAW IS PER THE ROOFTOP UNIT MANUFACTURERS SPECIFICATIONS AND RECORD.
- COOLING SYSTEM CHECK:

SUPPLY FAN SYSTEM CHECK:

- LEAK CHECK ALL CIRCUITS.
- CHECK COIL INTEGRITY AND CLEANLINESS. CLEAN
- START EACH COMPRESSOR IN UNIT. CONFIRM PROPER ROTATION AND CORRECT AS NEEDED
- CHECK REFRIGERANT PRESSURES OF EACH CIRCUIT PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATION. CORRECT CHARGE AS NEEDED.
- RECORD TEMPERATURE DROP ACROSS THE EVAPORATOR COIL IN FULL COOLING (ALL
- COMMENTS:

HVAC DESIGN CRITERIA

JOB LOCATION	DESIGN CON	NDITIONS	WORST CASE HUMIDITY	CONDITIONS				
SAN ANTONIO, TX 690 FT ALTITUDE	SUMMER DE	B / MWB (DEG. F)	SUMMER DB / MWB (DEG. F)					
		100.4/74.1	82.1/79.4					
CHANGE LOCATION AND CONDITIONS	WINTER DB	(DEG. F)	DEW POINT (DEG. F)					
		29.7	78	.5				
INTERIOR DESIGN AREA		SUMMER	WINTER					
	DB	(%) RH	DB	(%) RH				
DINING	74	50	70	50				
KITCHEN	74	50	70	50				
RESTROOM	74	50	70	50				
				·				

MECHANICAL NARRATIVE:

THE HVAC SYSTEM CONSISTS OF TWO NEW DX PACKAGE ROOFTOP UNITS WITH GAS HEAT.

RTU-1 SHALL BE PROVIDED WITH ITS OWN WALL MOUNTED THERMOSTAT AND HUMIDISTAT FOR CONTROLLING TEMPERATURE AND HUMIDITY IN THE SPACE. RTU-2 SHALL BE PROVIDED WITH ITS OWN WALL MOUNTED THERMOSTAT FOR CONTROLLING TEMPERATURE IN THE SPACE. THE NEW UNIT SHALL BE CONSTANT VOLUME AN OPERATE BASED ON AN OCCUPIED SCHEDULE.

THE EXHAUST FAN SHALL BE INTERLOCKED WITH THE RESTROOM

REFER TO THE MECHANICAL ENERGY NOTES FOR COMPLIANCE REQUIREMENTS WITH IECC 2018. SEE THE HVAC DESIGN CRITERIA ON THIS SHEET AS REQUIRED BY THE 2018 IECC.

THE MECHANICAL CONTRACTOR SHALL REVIEW THE SYSTEM COMMISSIONING SPECIFICATION ON THIS SHEET FOR REQUIREMENTS AND PARTICIPATION IN THE COMMISSIONING PROCESS. FAILURE TO COMPLY OR PARTICIPATE MAY INCUR ADDITIONAL COST TO THE CONTRACTOR.

> KEE

sockgate.

78227

Antonio,

REVISIONS:

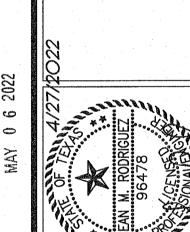
20

& ARC

DATE: 05.06.22 JOB NO: 37692 DRAWN BY: JMM SHEET NUMBER:



REVISIONS:



Charles
William
Pope

& ASSOCIATES
ARCHITECTURE PLANNING CON?
7400 BLANCO RD, # 257, SAN ANTONIO

05.06.22

37692

DATE:

JOB NO:

DRAWN BY:

SHEET NUMBER:

MECHANICAL DIFFUSER AND DUCT PLAN 1/4"=1'-0" A 8"x6" EXHAUST AIR DUCT UP TO ROOF MOUNTED MUSHROOM CAP, 200 CFM. SEE DETAIL 9 14"Ø EXHAUST AIR DUCT DOWN, TRANSITION AS NECESSARY TO CONNECT TO EXHAUST HOOD. EXHAUST DUCT SHALL OFFSET IN CEILING SPACE TO CONNECT TO ROOF EXHAUST FAN KEF-1. SEE HOOD DETAILS ON DRAWING 7.11. SEE DETAILS ON SHEET 7.4 FOR FIRE PROTECTION OF DUCTWORK.

> 10 14"Ø EXHAUST AIR DUCT DOWN, TRANSITION AS NECESSARY TO CONNECT TO EXHAUST HOOD. EXHAUST DUCT SHALL OFFSET IN CEILING SPACE TO CONNECT TO ROOF EXHAUST FAN KEF-2. SEE HOOD DETAILS ON DRAWING 7.11. SEE DETAILS ON SHEET 7.4 FOR FIRE PROTECTION OF DUCTWORK.

DIFFUSERS, IN ACCESSIBLE LOCATION WHENEVER POSSIBLE, FOR NON ACCESSIBLE LOCATIONS PROVIDE REMOTE CABLE CONTROL UNIT BOWDEN MODEL 270-301 AS MANUFACTURED BY YOUNG REGULATOR CO. OR APPROVED EQUAL.

CANTILEVER HOOD SUPPORT RODS AWAY FROM DUCTWORK. USE ANGLE TO OFFSET THE SUPPORTS.

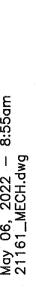
EXHAUST DUCTWORK RUN BETWEEN ROOF TRUSSES.

MASTER THERMOSTAT/HUMIDISTAT FOR RTU-1 AND THERMOSTAT FOR RTU-2.

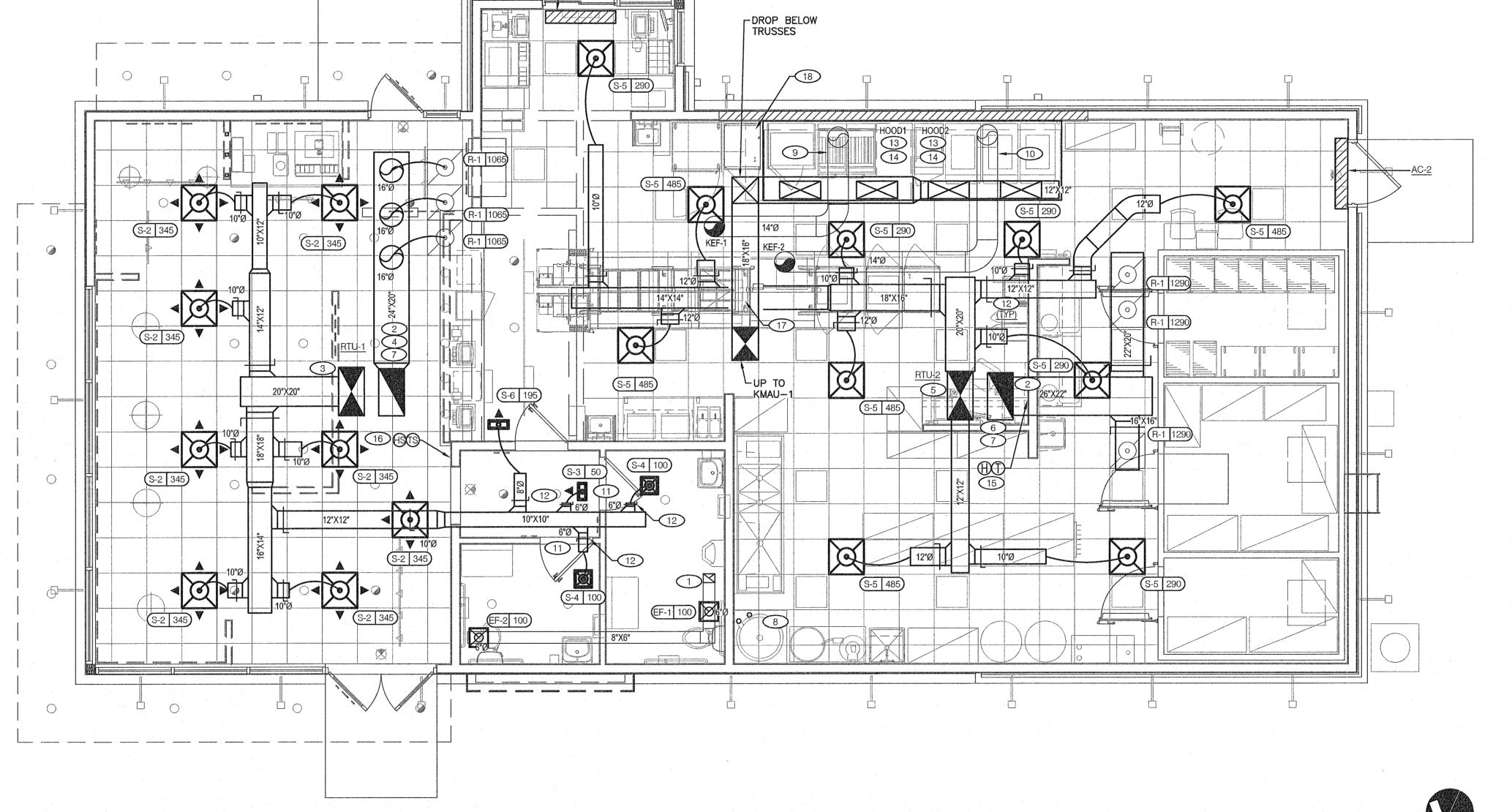
FURNISH AND INSTALL SMOKE DETECTOR IN THE RETURN AIR DUCT, IN ACCORDANCE COORDINATE WITH ELECTRICAL. FURNISH AND INSTALL 3" SCHEDULE 40 PVC WATER HEATER CONCENTRIC VENT TO

8 ROOF. COORDINATE WORK WITH ALL TRADES.

THERMOSTAT/HUMIDISTAT REMOTE SENSORS . MOUNT AT 60" A.F.F. DO NOT COVER WITH WALL GRAPHICS. REPORT ANY DISCREPANCIES WITH LOCATION TO ARCHITECT. 17 ROUTE DUCT BETWEEN TRUSSES. HOOD CONTROLS LOCATED IN UTILITY CABINET SEE HOOD DRAWINGS 7.5-7.11



KITCHEN MECHANICAL NOTES



A. INSTALLATION AND TERMINATION OF THE POWERED VENT SYSTEM FOR THE

MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND LOCAL CODES AND

B. DINING ROOM / KITCHEN LIGHT FIXTURE LOCATIONS ARE CRITICAL. COORDINATE

LOCATIONS. COORDINATE WITH ELECTRICAL DRAWINGS FOR CEILING GRID /

DUCTWORK LOCATIONS SO AS NOT TO CONFLICT WITH LIGHT FIXTURE

C. THERMOSTATS SHALL BE PROGRAMMABLE WITH SUBBASE AND REMOTE

TEMPERATURE SENSOR; REFER TO KEYNOTES15 and 16, THIS SHEET.

COORDINATE WITH STRUCTURAL DRAWINGS. SEE DETAIL 1 / S4.2.

D. S/A DUCTS FOR RTU-1 (FRONT of HOUSE) SHALL RUN PARALLEL TO TRUSSES;

E. DUCTWORK LOCATED IN EXPOSED CEILING SHALL BE INTERNALLY INSULATED.

GENERAL NOTES

LIGHT FIXTURE LOCATIONS.

WATER HEATER SHALL BE IN ACCORDANCE WITH THE VENT AND WATER HEATER

A. CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH HOOD DRAWING. PROVIDE

PROVIDE ALL WIRING, RELAYS, AND INTERLOCKS AS REQUIRED. THE MECHANICAL

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND WORKING WITH

AND INSTALL REQUIRED CONNECTIONS TO HOODS AND/OR EQUIPMENT.

THE TEST AND BALANCE CONTRACTOR FOR PROPER BALANCING AND

B. HOOD CONTROLS AND ANSUL SHALL BE FURNISHED BY KITCHEN EQUIPMENT

VENDOR. TO BE INSTALLED BY ELECTRICAL CONTRACTOR AND FIRE

OPERATION OF ALL HOODS.

SUPPRESSION CONTRACTOR.

2 ON SHEET M4.0. PROVIDE BACKDRAFT DAMPER IN EACH EXHAUST DUCT CONNECTING EXHAUST FAN TO 8"Ø EXHAUST DUCT. EXHAUST FANS + MOTOR DAMPERS SHALL BE WIRED TO RESTROOM LIGHTS AND CONTROLLED BY MOTION SENSOR; COORDINATE WITH ELECTRICAL. THE INSIDE OF THE RETURN AIR DUCTS SHALL BE LINED FROM THE AIR HANDLING

EQUIPMENT TO A DISTANCE OF 10' FROM THE UNIT WITH ULTRALITE #300 - 1/2" THICK OR OTHER APPROVED DUCT LINEAR ACOUSTICAL BOARD. THE MATERIAL SHALL BE FITTED CAREFULLY ON THE INSIDE OF THE DUCT AND SHALL BE FASTENED ON WITH CEMENT

SUPPLEMENTED BY SCREWS AND WASHERS ON TOP AND SIDES OF DUCT. 20 x 20 SUPPLY AIR DUCT: 3,200 CFM. CONNECT TO SUPPLY AIR OPENING AT ROOFTOP

UNDERCUT RESTROOM DOORS MIN. 1/2" FOR MAKE-UP AIR. UNIT, RTU-1 (COORDINATE WITH RTU SUPPLIER / SPECIFICATIONS).

24 x 20 RETURN AIR DUCT: 3,200 CFM. CONNECT TO RETURN AIR OPENING AT ROOFTOP

12 PROVIDE MANUAL VOLUME DAMPER, TYPICAL AT ALL SUPPLY AIR AND RETURN AIR

13 PROVIDE MANUAL VOLUME DAMPER, TYPICAL AT ALL SUPPLY AIR AND RETURN AIR

14 PROVIDE MANUAL VOLUME DAMPER, TYPICAL AT ALL SUPPLY AIR AND RETURN AIR

15 PROVIDE MANUAL VOLUME DAMPER, TYPICAL AT ALL SUPPLY AIR AND RETURN AIR

16 PROVIDE MANUAL VOLUME DAMPER, TYPICAL AT ALL SUPPLY AIR AND RETURN AIR

17 PROVIDE MANUAL VOLUME DAMPER, TYPICAL AT ALL SUPPLY AIR AND RETURN AIR

18 PROVIDE MANUAL VOLUME DAMPER, TYPICAL AT ALL SUPPLY AIR AND RETURN AIR

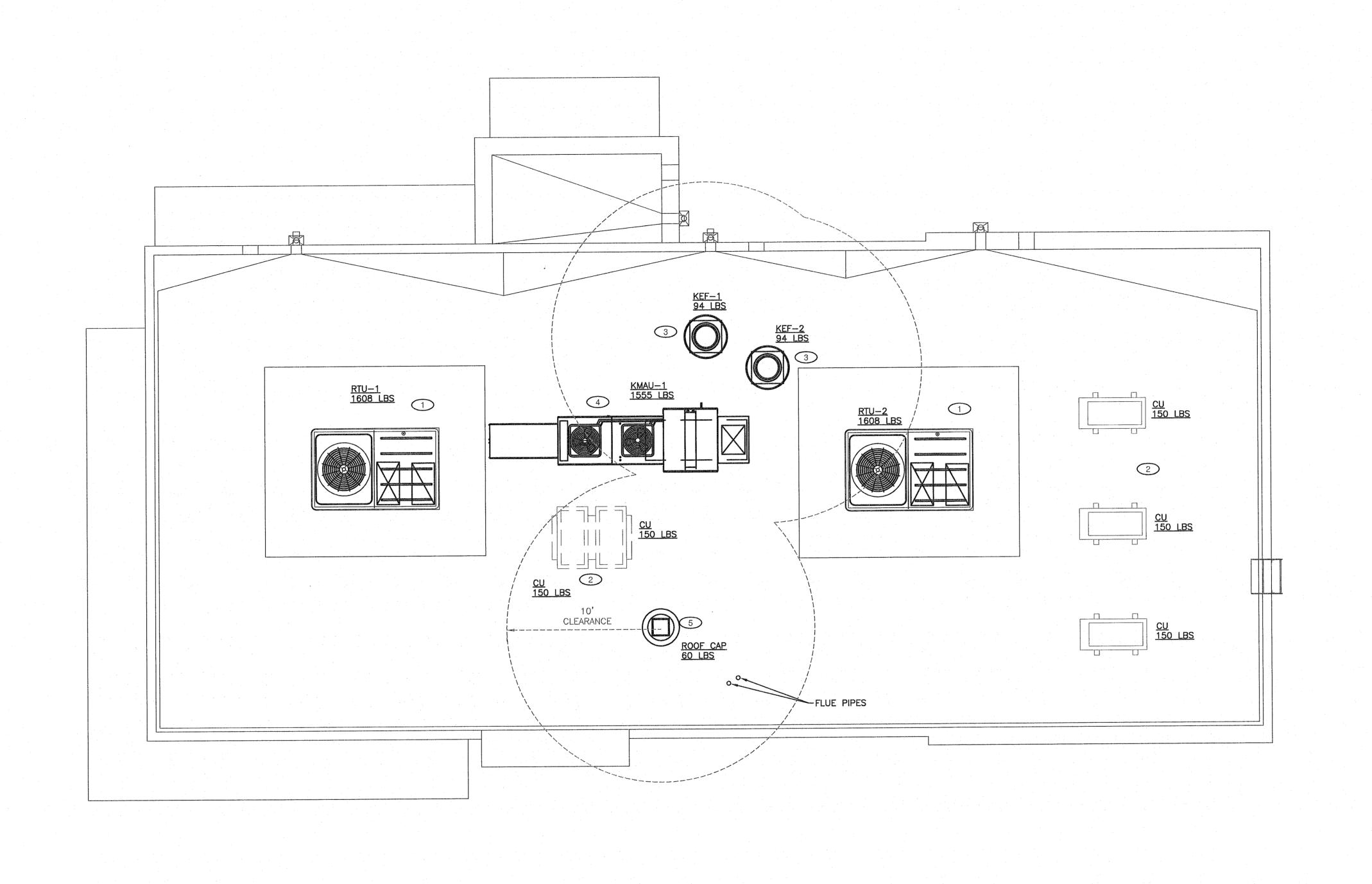
18 PROVIDE MANUAL VOLUME DAMPER, TYPICAL AT ALL SUPPLY AIR AND RETURN AIR AND UNIT, RTU-1 (COORDINATE WITH RTU SUPPLIER / SPECIFICATIONS).

22 x 22 SUPPLY AIR DUCT: 3,865 CFM. CONNECT TO SUPPLY AIR OPENING AT ROOFTOP 5 UNIT, RTU-2 (COORDINATE WITH RTU SUPPLIER / SPECIFICATIONS).

26 X 22 RETURN AIR DUCTS: 3,865 CFM. CONNECT TO RETURN AIR OPENING AT ROOFTOP UNIT, RTU-2 (COORDINATE WITH RTU SUPPLIER / SPECIFICATIONS).

WITH LOCAL CODES, DUCT SMOKE DETECTOR WIRED BY ELECTRICAL CONTRACTOR,

KEY NOTES

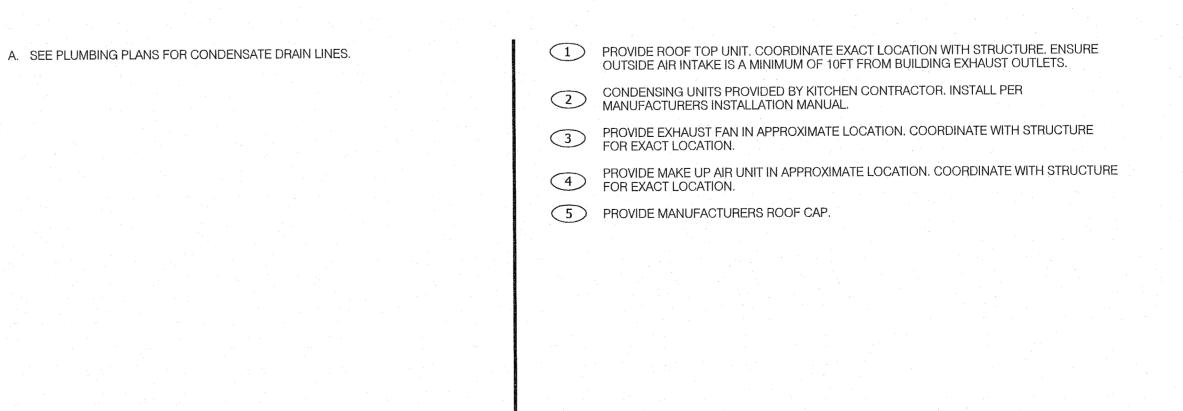


NOT USED

D







REVISIONS:

MECHANICAL ROOF PLAN

MINITED/INSTECT ROCKGate - 6807 Military Dr W, San Antonio, Tx. 78227

DRAWN BY: SHEET NUMBER:

8

KEY NOTES GENERAL NOTES C

GENERAL:

- 1. LOCATE, CUT AND FRAME ROOF OPENINGS AS SHOWN FOR ALL HVAC EQUIPMENT AND EXHAUST FANS.
- 2. IT IS VERY IMPORTANT THAT ACCURATE MEASUREMENTS ARE USED WHEN LOCATING EXHAUST FAN ROOF OPENINGS TO ENSURE THAT NO ADDITIONAL OFFSETS ARE REQUIRED IN THE EXHAUST DUCTWORK. COORDINATE ROOF OPENINGS WITH THE KITCHEN EQUIPMENT.
- 3. PROVIDE ANY FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILING.

HVAC:

- 1. INSTALLATION SHALL CONFORM TO THE ENERGY CONSERVATION DESIGN MANUAL STANDARDS FOR NEW NONRESIDENTIAL BUILDINGS, IF REQUIRED.
- 2. ALL WORK AND MATERIALS SHALL COMPLY WITH GOVERNING CODES, SAFETY ORDERS AND REGULATIONS.
- 3. OBTAIN AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY GOVERNING AUTHORITIES.
- 4. COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT FOR LINE AND LOW VOLTAGE WIRING, LINE VOLTAGE WIRING SWITCHES, AND FINAL CONNECTIONS.
- 5. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS.
- 6. FOR INSTALLATION OF RECHARGEABLE REFRIGERANT LINES FROM ICE MACHINE TO CONDENSER ON ROOF, SEE SCOPE OF WORK.
- 7. HVAC UNITS SHALL BE MOUNTED LEVEL ON ROOF CURBS.
- 8. ALL ABOVE CEILING DUCTWORK SHALL BE EXTERNALLY INSULATED. DUCTWORK LOCATED IN EXPOSED CEILING SHALL BE INTERNALLY INSULATED. VERIFY DUCT INSULATION AND MINIMUM R-VALUE WITH GOVERNING CODE.
- 9. ALL SUPPLY / RETURN DUCTS SHALL BE RIGID, WITH THE EXCEPTION OF THE LAST 5'-0" WHICH MAY BE FLEX.
- 10. SMOKE DETECTOR SHALL BE INSTALLED IN THE RETURN AIR DUCT AND SHALL DEACTIVATE ROOFTOP UNIT UPON SENSING SMOKE. SMOKE DETECTOR SHALL BE INSTALLED, PRIOR TO ANY OUTSIDE AIR CONNECTIONS.
- 11. ALL HOOD EXHAUST DUCTS SHALL BE RIGID 16 GA MINIMUM, WELDED DUCT. GRIND ALL WELDS SMOOTH. PROVIDE FIRE MASTER DUCT WRAP FOR ALL HOOD EXHAUST DUCTS. SEE 15/7.11.
- 12. ALL BRANCH DUCTS FEEDING INDIVIDUAL DIFFUSERS SHALL HAVE DAMPERS AT TAKEOFFS FOR AIR BALANCING. PROVIDE ACCESS PANELS TO DAMPERS. SEE 8 / 7.4.
- 13. ALL UTILITY PIPING FOR RTU'S SHALL RUN UP THROUGH ROOF INSIDE EACH UNIT'S ROOF CURB.
- 14. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM EXHAUST FANS AND / OR VENTS.
- 15. FINAL HVAC SYSTEM TESTING AND BALANCING SHALL BE PERFORMED BY INDEPENDENT AGENT CONTRACTED DIRECTLY BY THE OWNER. A RE-TEST IS MANDATORY FOR A FALSE START (I.E. NO POWER UPON AGENT'S ARRIVAL, EQUIPMENT NOT WIRED, ETC.) AND SHALL BE A COST INCURRED BY THE G.C. IN THE EVENT A SYSTEM / STORE RECEIVES A GRADE OF 5 OR BELOW AS A RESULT OF THE HVAC SYSTEM PERFORMANCE OR OPERATIONAL DEFICIENCIES, OWNER WILL REQUEST A RE-TEST AND THE COST FOR SAME SHALL BE ALSO INCURRED BY THE GENERAL CONTRACTOR.
- 16. THERMOSTATS; SEE SCOPE OF WORK.
- 17. REMOTE THERMOSTAT SENSORS; SEE SCOPE WORK.
- 18. SUPPLY AIR TEMPERING (SAT) CONTROL; SEE SCOPE OF WORK. SAT FUNCTION: IF ROOM TEMPERATURE IS AT ESTABLISHED "SET-POINT", AND THE SUPPLY DUCT TEMPERATURE IS 10 DEGREES BELOW SET-POINT, SAT CONTROLS INITIATE FIRST STAGE HEATING TO PREVENT COLD AIR DRAFTS FROM ENTERING THE CONDITIONED SPACE.

PASSON REPORT AS A SAME CONTRACTOR

TO THE REAL PROPERTY OF THE PR	HAS VANCONIA RASSIA SA		DESCRIPTION OF THE STREET STREET STREET STREET, SEE AND STREET STREET, STREET STREET STREET, STREET STREET, STREET STREET,	GENERAL NOTES 6
SYMBOL & A	ABBREV.	DESCRIPTION	SYMBOL & ABBREV.	DESCRIPTION
X /M	SA/SUP	SUPPLY AIR (RISE/DROP)	СВ	CIRCUIT BREAKER
/[1	RA/RET	RETURN AIR DUCT (RISE/DROP)	CLG.	CEILING
	EA/EXH	EXHAUST AIR DUCT (RISE/DROP)	CONN.	CONNECT/CONNECTION
	CD/SR	CEILING DIFFUSER/SUPPLY REGISTER (ARROWHEAD REPRESENTS NUMBER OF THROW)	CONT.	CONTINUATION
Ø	RR/RG	RETURN REGISTER/GRILLE	CONT'R	CONTRACTOR
Q	ER/EG	EXHAUST REGISTER/GRILLE	CFM	CUBIC FEET PER MINUTE
		RECTANGULAR DUCT ELBOW WITH TURNING VANES	DET.	DETAIL
	FC	FLEXIBLE CONNECTION	DISC.	DISCONNECT
	MVD	MANUAL VOLUME DAMPER	DTR	DOWN THRU ROOF
	FD	FIRE DAMPER	EF	EXHAUST FAN
	(L)	DUCT LINING (1" THICK UNLESS OTHERWISE NOTED)	(E)	EXISTING
		SINGLE LINE DUCT BRANCH TAKEOFF	GA.	GAGE/GAUGE
7 7		DUCT TRANSITION (RECTANGULAR TO ROUND)	GC	GENERAL CONTRACTOR
	FLEX	FLEXIBLE DUCT (14'-0 MAXIMUM)	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
Ţ	T-STAT	THERMOSTAT: SEE GENERAL NOTE 17, THIS SHEET	MFR.	MANUFACTURER
(TS)		THERMOSTAT SENSOR (REMOTE): SEE GENERAL NOTE 18, THIS SHEET	MECH.	MECHANICAL
CD	CD	CONDENSATE DRAIN	(N)	NEW
Ø	DIA.	DIAMETER	OA/OSA	OUTSIDE AIR
DL	DL	DOOR LOUVER	OBD	OPPOSED BLADE DAMPER
UC	UC	DOOR UNDERCUT	S/S	STAINLESS STEEL
(X-X 0000)		MECHANICAL EQUIPMENT DESIGNATION	TYP.	TYPICAL
	A/C , AC	AIR CONDITIONING	UON	UNLESS OTHERWISE NOTED
	BDD	BACK DRAFT DAMPER	UTR	UP THRU ROOF
SD		SMOKE DETECTOR; SEE GENERAL NOTE 10, THIS SHEET.		

· ·					MECH	IAN	ICA	L SY	MB()L8		7	
. [(XX-XXX)		MANUFACTURER			F/	N MO	TORS	ELE	CTRICA	L DATA		NAMES OF STREET
	MARK	AREA SERVED	AND MODEL NUMBER	NOZZLE WIDTH (IN)	AIRFLOW (CFM)	QTY	HP	VOLT/PH	HP	MCA	MOCP	NOTES	NAZAPIGNOSHIGOROGICASI
	AC-1	DRIVE THRU	BERNER SLC07-1048A	46.62	1,370	1	1/5	120/1	1/5	3.4	15	1-4	STORY STATE OF STATE
	AC-2	KITCHEN	BERNER SLC07-1048A	46.62	1,370	1	1/5	120/1	1/5	3.4	15	1-4	and a African Constitution in
	NOTES:		CONTRACTOR SHA					2. NO HEA 4. STANDA		NSH		· .	

AIR CURTAIN

		FAN DATA					COC	DLING CAPA	CITY		HEATING	CAPACITY	,	UNI	ELECT [ATA		NANUISA OTUDED	
XX-XXX MARK	AREA SERVED	SUPPLY	MIN O.A. CFM	ESP	HP	RPM	NOM TONS	MIN CAP (MBH) TOT/SEN	EER / IEER	INPUT STAGE (MBH)	1	PHASE (STAGES)	AFUE	VOLT/PH	MCA	МОСР	WEIGHT (LBS)	MANUFACTURER AND MODEL NUMBER	REMARKS
RTU-1	DINING	3200	800	0.85	2.75	1255	10 .	105.4/87.0	12.4 / 14.70	150	120	2	80	208/3	48	60	1608	TRANE YHC120F3RLA	SEE NOTES 1-6
RTU-2	KITCHEN	3865	300	0.85	2.75	1421	10	104.7/86.8	12.4 / 14.70	150	120	2	80	208/3	48	60	1608	TRANE YHC120F3RLA	SEE NOTES 1-5

(xx|xxx)

KEF-2

EF-1

EF-2

- 1. PROVIDE UNIT WITH 14" FACTORY INSULATED CURB. CURB SHALL BE SECURED TO THE STRUCTURE AS PER STRUCTURAL ENGINEERS RECOMMENDATIONS.
- 2. SPECIFIED RTUS ARE DOWN DISCHARGE PACKAGED GAS / ELECTRIC ROOFTOP UNITS. INCLUDES THROUGH THE ROOF CURB POWER, GAS & CONDENSATE DRAIN. GAS PIPING SHALL BE FACTORY PIPED WITH SHUT-OFF OUTSIDE OF UNIT.
- SPECIFIED UNIT INCLUDES HINGED ACCESS DOORS, 2" MERV 8 PLEATED FILTERS, LOW AMBIENT CONTROL TO 0°F, ENTHALPY ECONOMIZER, MOTORIZED OUTSIDE AIR DAMPER, CIRCUIT BREAKER WITH SINGLE POINT WIRING, HAIL GUARD, AND FACTORY FABRICATED, KNOCK-DOWN ROOF CURB.

MANUFACTURER

AND

MODEL NUMBER

CAPTIVEAIRE

DU85HFA

CAPTIVEAIRE

DU85HFA

GREENHECK SP-A110

GREENHECK SP-A110

REMARKS

SEE NOTES 1,2,3,4,5,6,9,10

SEE NOTES 1,2,3,4,5,6,9,10

SEE NOTES 7,8

SEE NOTES 7,8

- 4. SPECIFIED UNIT INCLUDES AN UN-POWERED CONVENIENCE OUTLET AND SMOKE DUCT DETECTOR IN THE RETURN DUCT OF UNIT.
- 5. ACCEPTABLE ALTERNATE MANUFACTURERS: LENNOX, CARRIER, AAON, AMERICAN STANDARD, AND YORK.

RPM | HP | ELECT

1380 | 0.75 | 115/1

1380 0.75 115/1

10W

10W | 115/1

115/1

1.0

1.0

0.5

0.5

769

769

1800

100

100

6. SPECIFIED UNIT INCLUDES HOT GAS REHEAT COIL FOR DEHUMIDIFICATION. CONTRACTOR TO FIELD INSTALL HUMIDISTAT AS SHOWN ON THE PLANS.

V	AC	WT	8 Cl	HED	JLE

UL 762 LISTED (GREASE) VENTED ROOF CURB

- ROOF CURB GREASE CUP
- HINGED ROOF CURB
- WEATHERPROOF DISCONNECT SWITCH SOLID STATE SPEED CONTROLLER
- BACKDRAFT DAMPER
- EXHAUST FANS PROVIDED BY HOOD MANUFACTURER. REFER TO HOOD DRAWINGS FOR MORE INFORMATION.
- 10. PROVIDE MASTER SWITCH TO BE WIRED BACK TO CONTROL BOX TO ENERGIZE FANS.

												es o servicio de la constancia					FAN SCHEDULE	2
			DIFFUSER FACE		TYPE		AIR	мои	NTING		DUTY	,	MATI	ERIAL				
(XX XXX) MARK	QUANTITY	NECK SIZE	OR CEILING GRID SIZE	DIFFUSER	REGISTER	GRILL	PATTERN CFM RANGE	LAY-IN	SURFACE	SUPPLY	RETURN	EXHAUST	ALUMINUM	STEEL	MANUFACTURER	MODEL NUMBER	REMARKS	
S-1			NOT USED															
S-2		10"Ø	24 x 24	Х			4W, 2W	X		X			×		METAL-AIRE / TITUS	5000 / TDCA	ROUND ADAPTER, SEE DETAIL 8 / M4.0	
S-3		12 x 6	12 x 6	Х	-		4W 0-200	X		X			X		METAL-AIRE / TITUS	4000-AF / 300FL	ROUND to SQUARE ADAPTER	
S-4		9 x 9	12 x 12	X			4W 0-250	X	×	Х	·		X		METAL-AIRE / TITUS	5000-1 / TDC-AA	FRN SQUARE to ROUND ADAPTER	
S-5		VARIES	24x24	X			0-500	X		X		-	×		METAL-AIRE / TITUS	7000 / PAS	LESS PATTERN CONTROLLER	
S-6		14 x 6	14 x 6		-	Х	2W 0-285		×	X				X	METAL-AIRE / TITUS	4000-AF / 300FL	ROUND to SQUARE ADAPTER, FULLY REMOVABLE FACE	
R-1		22 x 22	24 x 24			Х	0-1900	X			X		X		METAL-AIRE / TITUS	CC5-FB-TB / 50FF	FRN SQUARE to ROUND ADAPTER, FULLY REMOVABLE FACE	
1.				·														

1. DIFFUSERS IN SURFACE MOUNTED CEILINGS SHALL BE PROVIDED WITH OPPOSED BLADE DAMPERS 2. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

AIR DEVICE SCHEDULE

3

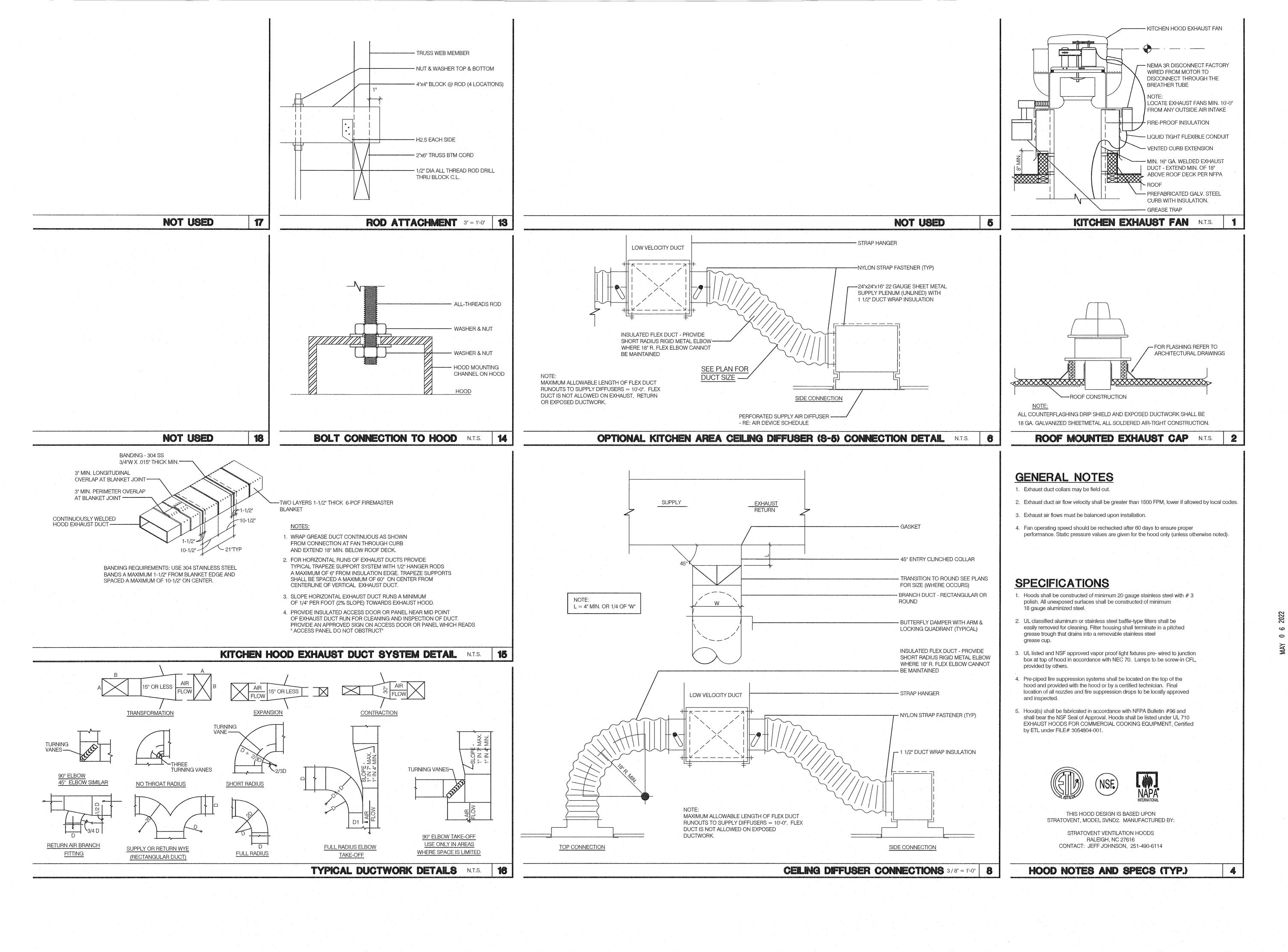
ITEM	OA	RA	SA	EA	PRESSURE
KEF-1				1800	-1800
KEF-2				1800	-1800
EF-1				100	-100
EF-2				100	-100
RTU-1	800	2400	3200	 .	+800
RTU-2	300	3565	3865		+300
KMAU-1	3040		3040	0	+3040
TOTAL	4140	5965	10105	3800	+340

AIR BALANCE SCHEDULE CFM

Antonio,

REVISIONS:

SHEET NUMBER:

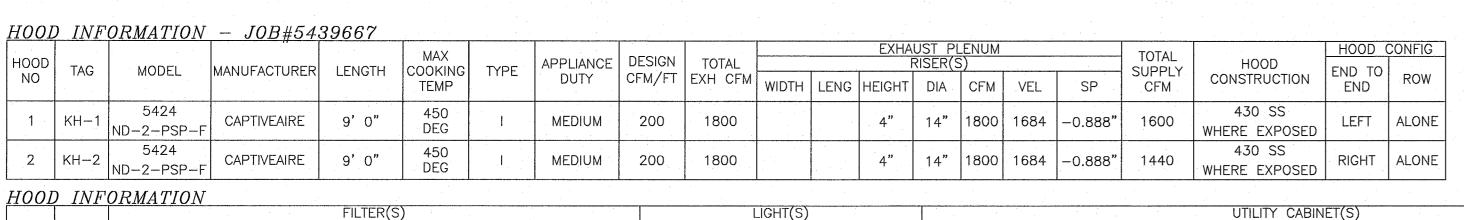


REVISIONS:

Rockgate Tx. 78227

WWW. San Antonio, T. 6807 Military Dr W, San Antonio, T.

DATE: 05.06.22 JOB NO: 37692 DRAWN BY: SHEET NUMBER:

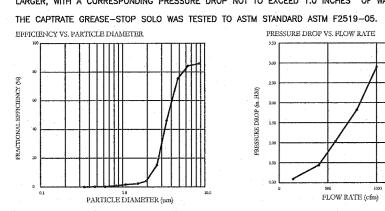


H00	D INFO	ORMATION		-													
HOOD NO	TAG			FILTER(S		EFFICIENCY @ 7		LIGHT(S)	WIRE			F	UTILITY CABINET(S) TIRE SYSTEM	ELECTRICAL	SWITCHES	FIRE	HOOD HANGING
NO	IAG	TYPE	QTY	HEIGHT	LENGTH	MICRONS	QTY	TYPE	GUARD	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY	PIPING	WEIGHT
1	KH-1	CAPTRATE SOLO FILTER	6	16"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO	LEFT	12"x54"x24"	TANK FS	4.0/4.0	DCV-2111	1 LIGHT 1 FAN	YES	849 LBS
2	KH-2	CAPTRATE SOLO FILTER	6	16"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO							YES	526 LBS

<u>H00L</u>) <i>OPT</i>	<i>IONS</i>
HOOD NO	TAG	OPTION
		BACKSPLASH 122.00" HIGH X 264.00" LONG 430 SS VERTICAL.
1 1	 KH-1	RISER SENSOR INSTALL 6IN PLEN.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		RISER SENSOR INSTALL 6IN PLEN.
2	KH-2	RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430

PERF	ORATI	ED SUF	PPLY F	PLENU	M(S)						
HOOD									RISER(S)	
HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	WIDTH	LENG	DIA	CFM	SP
1	1211 4	F4	400"	4.4"	6"	MUA	12"	28"		800	0.206"
'	KH-1	Front	120"	14"		MUA	12"	28"		800	0.206"
	KH 0	Eront	100"	1 / "	6"	MUA	1.2"	28"		720	0.168"
2	KH-2	Front	108"	14"	0	MUA	12"	28"		720	0.168"

SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER THE CAPTRATE GREASE—STOP SOLO FILTER IS A SINGLE—STAGE FILTER FEATURING A UNIQUE S—BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY. FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S). UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED. GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE. THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:.
NFPA #96
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (IMC)
ULC-S649





GENERAL NOTES :
1. ELECTRICAL HOOK-UP TO CAPTIVEAIRE CONTROLS (MOTOR STARTERS, FAN SWITCHES, DUCT STATS,
FAN DISCONNECTS, RELAYS, ETC.) BY OTHERS. 2. FIRE CHASE BY OTHERS, IF REQUIRED.
3. ALL PHASES OF INSTALLATION SHALL COMPLY WITH NEPA 96.
4. WRITTEN MEASUREMENTS HAVE PRECEDENCE
UVER SCALE

- 5. PROVIDE CLEANOUTS IN EXHAUST AIR DUCTS AS INDICATED TO ALLOW CLEANING AT ALL BENDS AND HORIZONTAL RUNS. 6. EXHAUST DUCT TO BE CAPTIVEAIRE SINGLE WALL WITH 2 LAYERS OF FIRE WRAP OR DOUBLE WALL MODEL R2, R3, OR Z3 PREFABRICATED GREASE DUCT.
 ALTERNATIVELY, FIELD FABRICATED WELDED GREASE
 DUCT WITH 2 LAYERS OF FIRE WRAP IS
 ACCEPTABLE AS LONG AS DUCT AS BUILT WITHOUT SHARP BENDS OR ANY FEATURES THAT CAUSE EXCESSIVE STATIC PRESSURE OR SYSTEM EFFECT. . FAN TO HAVE A MINIMUM OF 10 FT. OF CLEARANCE FROM THE OUTLET TO ADJACENT
- BUILDINGS, PROPERTY LINES, AIR INTAKES OR 3 FT. VERTICAL CLEARANCE PER NFPA96 8. HORIZONTAL EXHAUST DUCT TO SLOPE NOT LESS THAN 1/4" PER FOOT TOWARD HOOD FOR DUCT
- LESS THAN 75' LONG.
 1" PER FOOT SLOPE FOR DUCT LONGER THAN 75'
 9. HOOD TO OVERHANG COOKING EQUIPMENT 6" ON ALL OPEN SIDES.

 10. EXHAUST DUCT TO BE PROTECTED FROM
- COMBUSTIBLES PER NFPA96 AND LOCAL CODE. 11. BUILDING PRESSURE SHALL NOT EXCEED 0. 02" WATER COLUMN AT EXTERIOR DOORS. 12 KITCHEN SHALL BE BALANCED TO BE NEGATIVE WITH RESPECT TO THE DINING ROOM,

AIR BALANCE NOTE: TOTAL TRANSFER AIR = HOOD EXHAUST* - HOOD SUPPLY TOTAL TRANSFER AIR = 3,600 CFM - 3,040 CFM TOTAL TRANSFER AIR = 560 CFM

*INCLUDES DISHWASHER HOOD(S) IN EXHAUST TOTALS. (TYPICALLY DISHWASHER HOODS ONLY RUN WHEN DISHWASHERS ARE ON) THIS HOOD SYSTEM HAS A HEAT SENSOR(S) THAT COMPLIES WITH IMC 507.2.1.1 FOR AUTOMATIC FAN ACTIVATION WHENEVER COOKING OPERATIONS OCCUR.

FOR QUESTIONS, CALL THE Arkansas Mechanical REGION 146 PHONE: (501) 500-5450 EMAIL: reg146@captiveaire.com

REVISIONS

6807 Military Dr W, San Antonio, Tx. 78227

REVISIONS:

Rechitecture Planning Consulting 7400 Blanco RD, # 257, SAN ANTONIO, TX. 78216

DATE: 4/21/2022 DWG.#: 5439667

 \bigcirc

DRAWN Josh / 146 SCALE:

 \bigcirc

 \sim

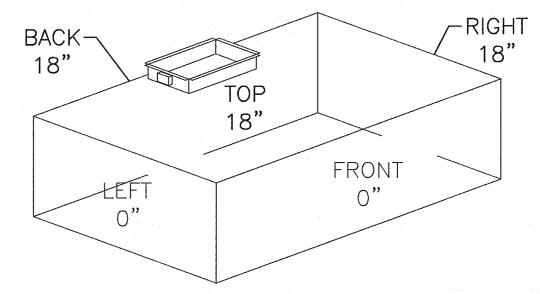
TRA

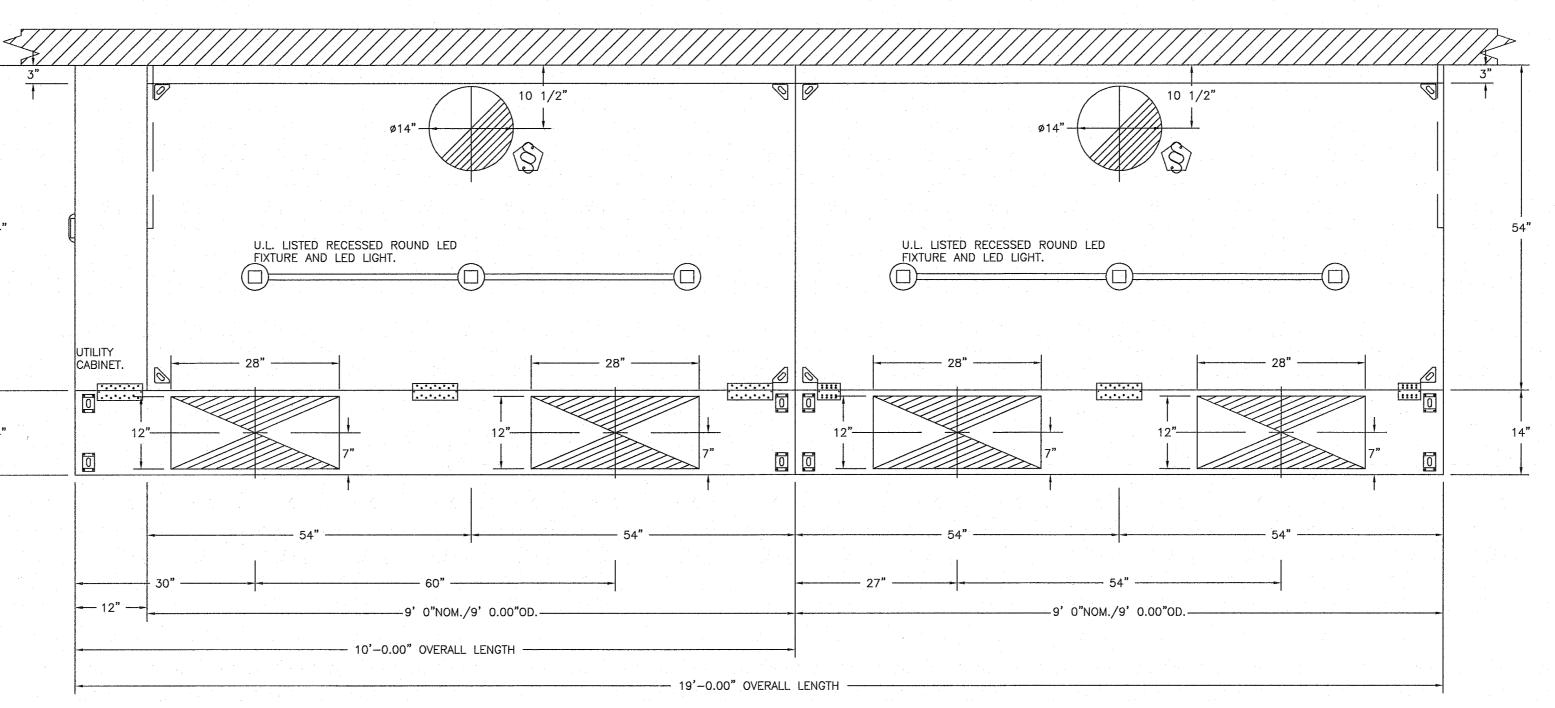
.000 4 0

3/4" = 1'-0" **MASTER DRAWING**

SHEET NO.

Clearance to combustibles - Hoods 1 & 2



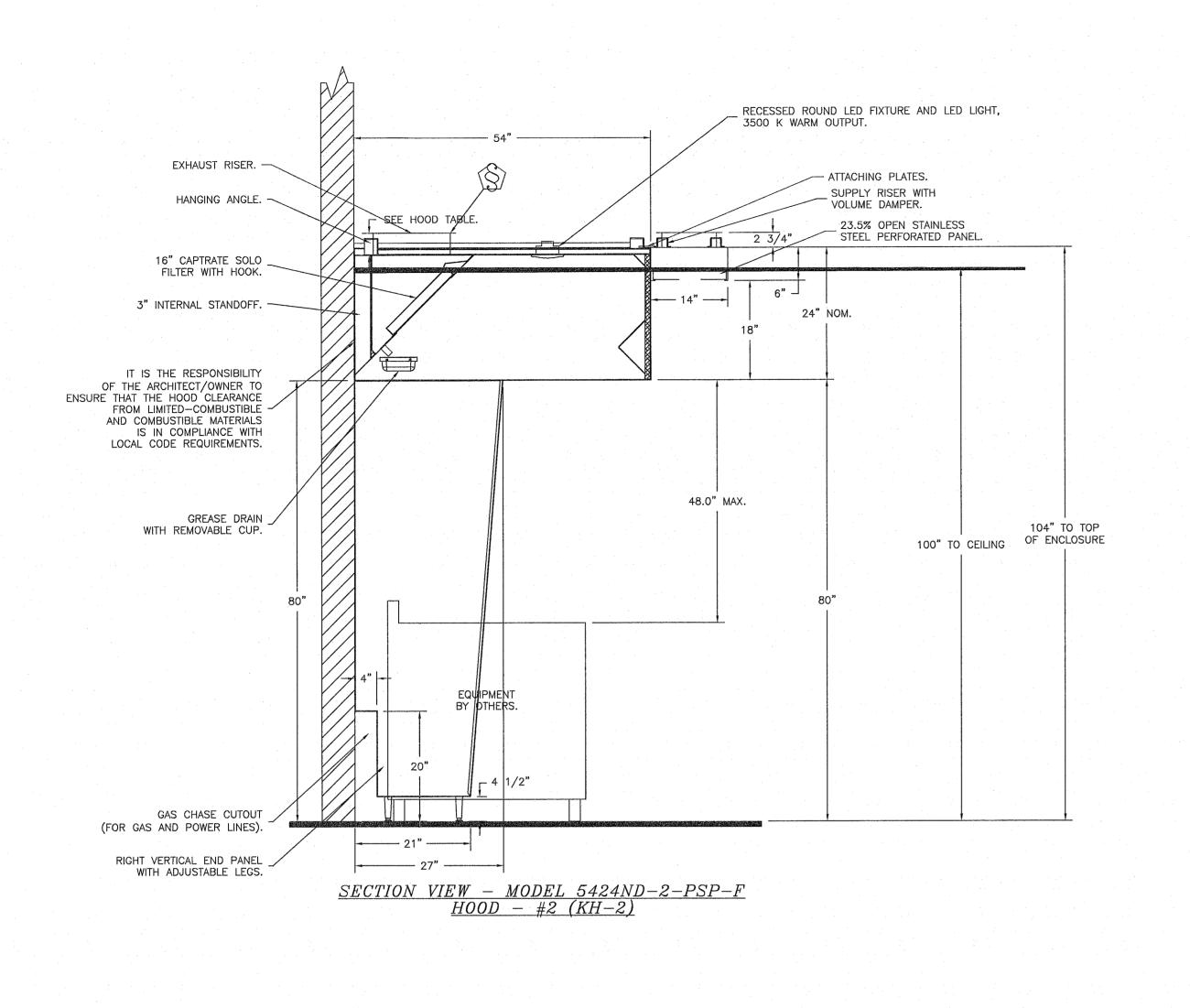


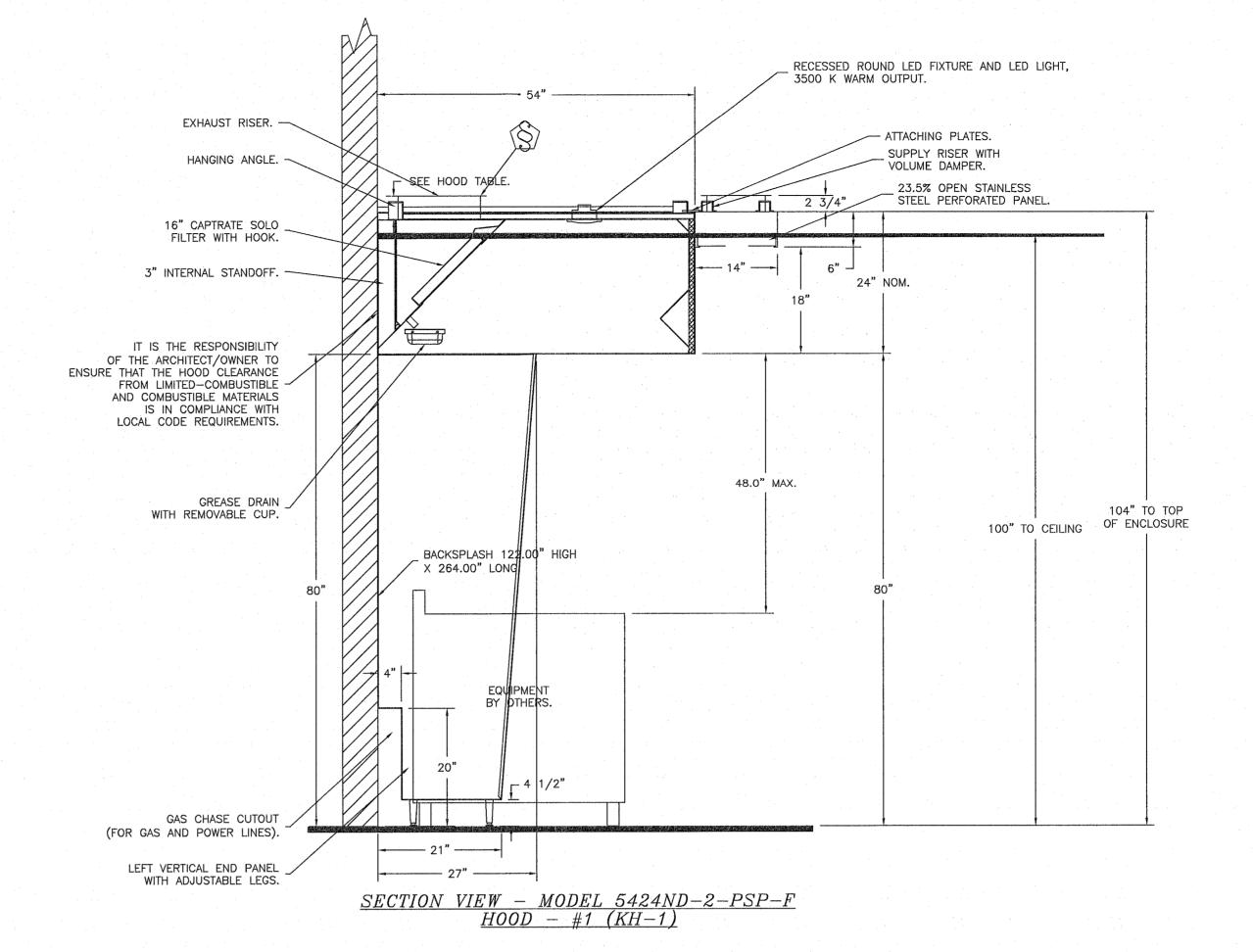
CUSTO	MER	APPROVAL	. TO	MANU	JFACT	URE:	THIS	BLOCK	(MUST	BE	COMPLETED	BEFORE	JOB	WILL	BE	PUT	INTO	PRODU	JCTION		
PROVED AS DRA	AWNI I	APPROVED) Δς Ι	IOTED	Пр	FVISE A	& DECLIE	RMIT [
NOVED AS DIV	///// I	LIAITKOVED	, 42 (NO1LD		LVISE (X NESOL	لسا ١١١٧١١	SIGNA	TURE				·.				DATE	-		

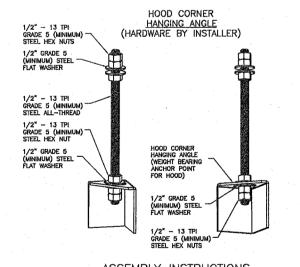
** Below Work to be performed by factory trained and TAB certified servicing agent: **
Verify that all components are installed correctly and are in accordance with as built drawings All equipment to be commissioned per start-up procedures in O&IM documents Check fan rotation, belt tension, blower and motor rpm, amperage and adjust if necessary Hood / Fans test and balance worksheet and provide to the Mechanical Engineer Verify and adjust equipment to assure hood captures correctly and features perform as designed Consult with contractors and answer their questions or direct them to the technical support line Provide guidance on the proper function and maintenance of equipment to Owners or General Contractors Complete Manufacturers Startup and Warranty form and send copy to Mechanical Engineer for their files

DATE: 37692 JOB NO: DRAWN BY: SHEET NUMBER:

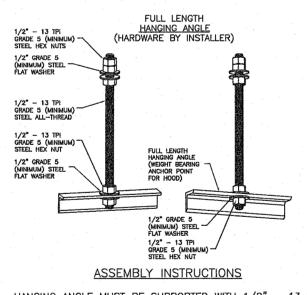
05.06.22



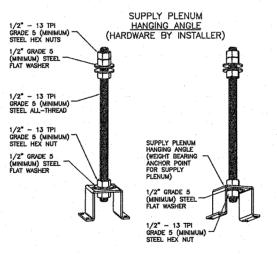




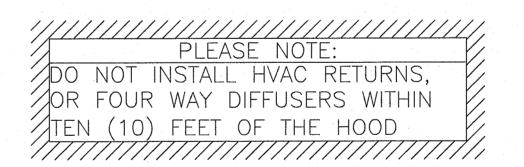
ASSEMBLY INSTRUCTIONS HANGING ANGLE MUST BE SUPPORTED WITH 1/2" — 13 TPI GRADE 5 (MINIMUM) ALL—THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" — 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT—LBS.

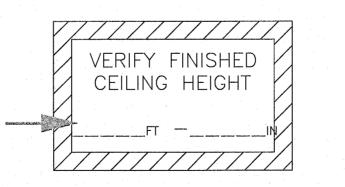


HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS



ASSEMBLY INSTRUCTIONS HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES GRADE 5 (MINIMUM) ALL—THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" — 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.





CUSTOMER APPROVAL TO MANUFACTURE: THIS BLOCK MUST BE COMPLETED BEFORE JOB WILL BE PUT INTO PRODUCTION APPROVED AS DRAWN | APPROVED AS NOTED | REVISE & RESUBMIT | SIGNATURE

 \sim

 \sim

 \bigcirc

ď

 \Box

TRAD

7----

8

 \bigcirc

 \mathbb{N}

 \Box

DATE: 4/21/2022

DWG.#: 5439667

DRAWN Josh / 146

SCALE:

MASTER DRAWING

SHEET NO.

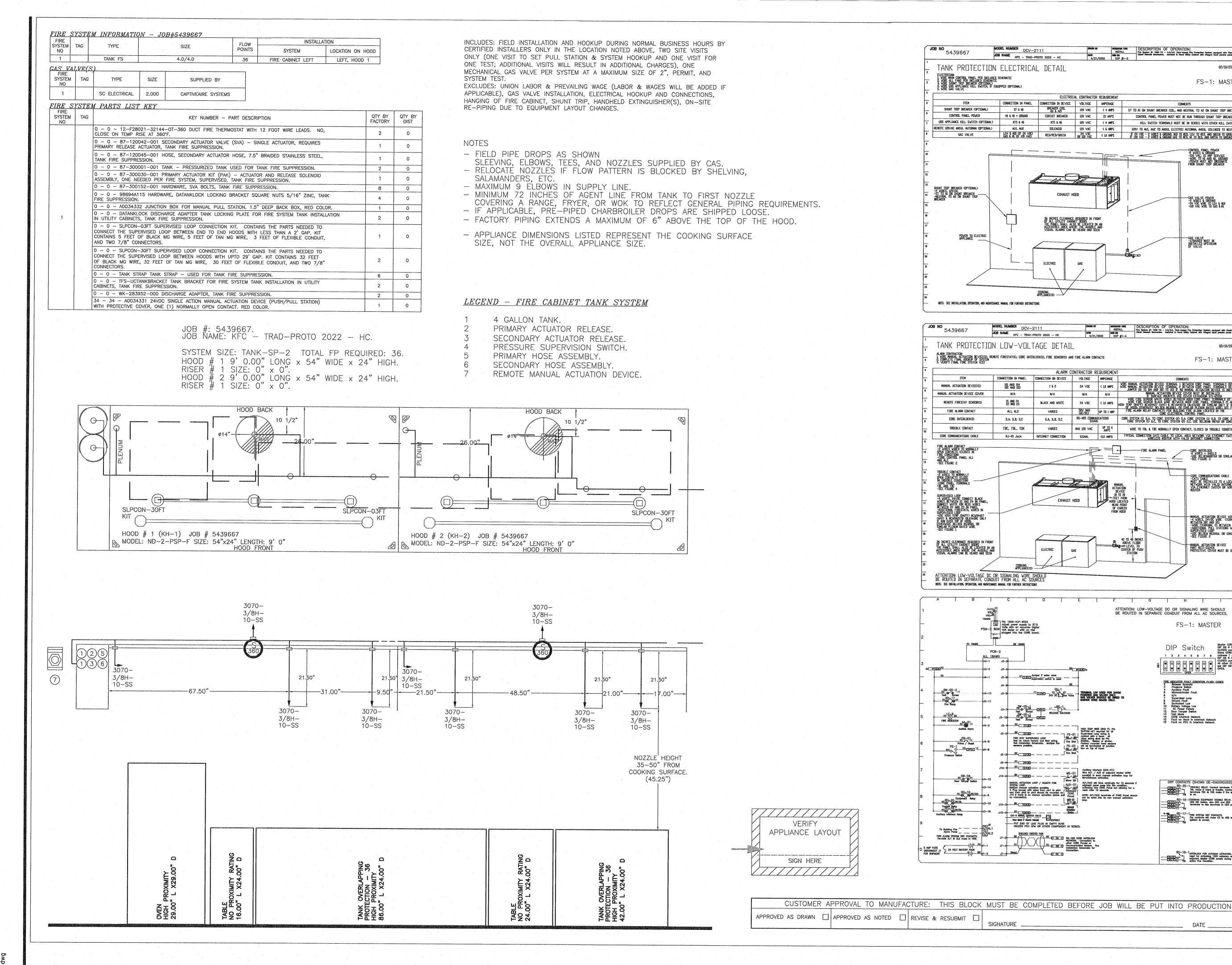
3/4" = 1'-0"

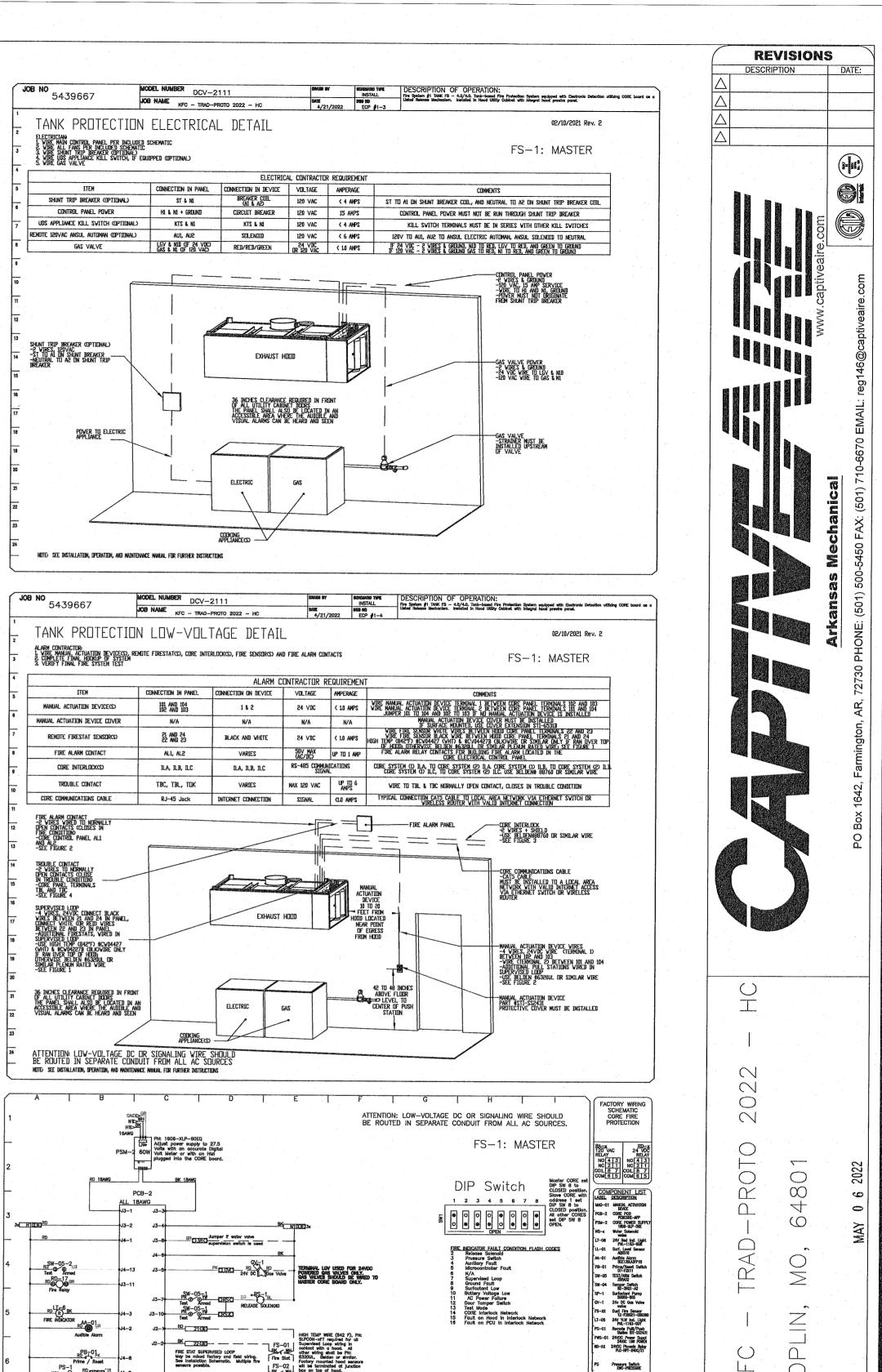
REVISIONS:

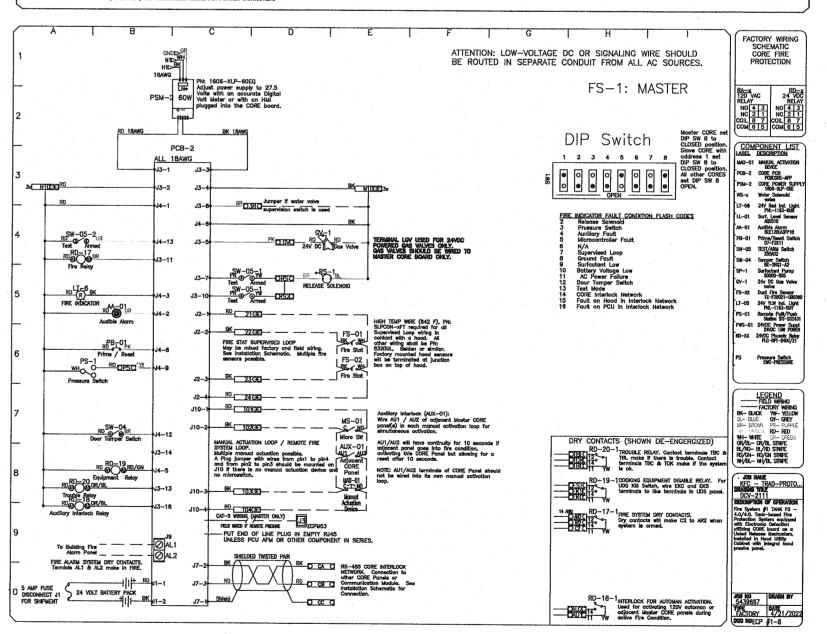
- 6807 Military Dr W, San Antonio, Tx. 78227

REVISIONS

DATE: 05.06.22 JOB NO: 37692 DRAWN BY: SHEET NUMBER:







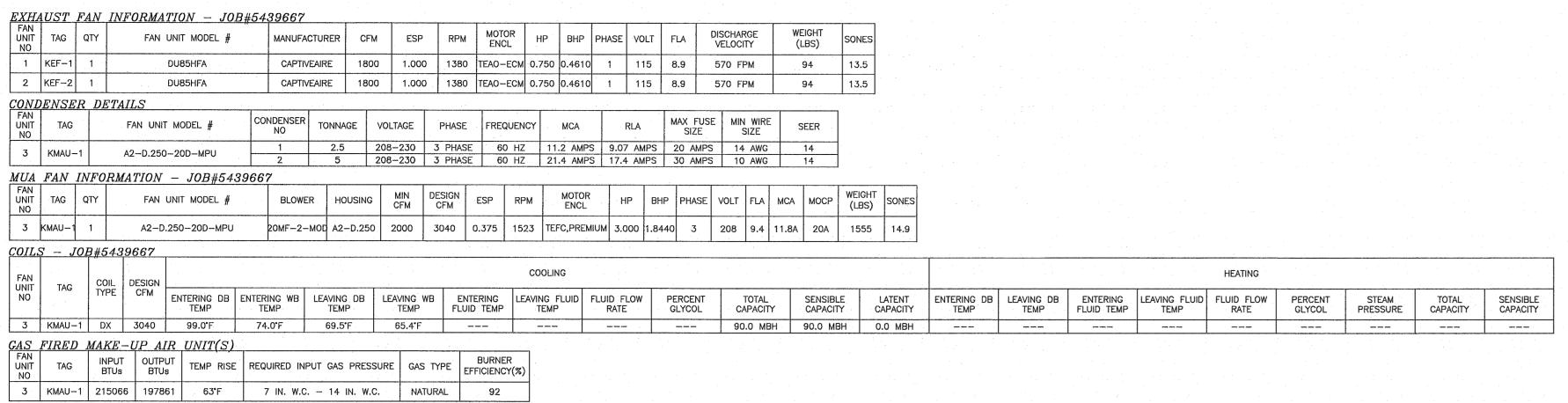
JOP **DATE:** 4/21/2022 DWG.#: 5439667 DRAWN BY: Josh / 146 SCALE: 3/4" = 1'-0" **MASTER DRAWING** SHEET NO.

& ASSOCIATES
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD, # 257, SAN ANTONIO, TX. 78216 Charles Willie DATE: 05.06.22 JOB NO: DRAWN BY:

Tx. 78227

Dr W, San Antonio,

SHEET NUMBER:



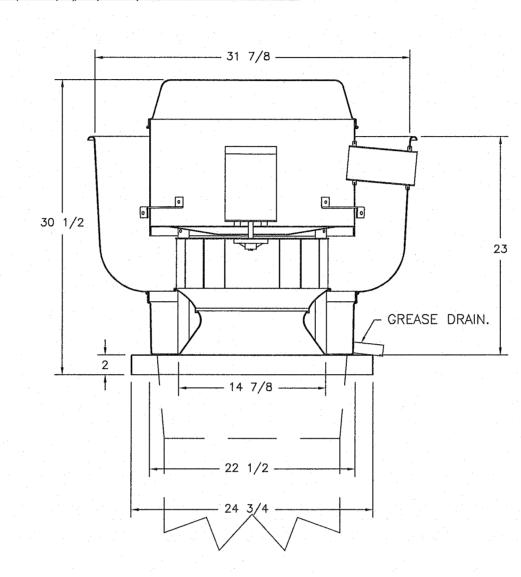
3 KMAU-1 215066 197861 TAG DESCRIPTION FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS UPBLAST FAN WHEEL ACCESS PORT 3 YEAR EXTENDED MOTOR WARRANTY ECM WIRING PACKAGE - PWM SIGNAL FROM ECPMO3 PREWIRE (TELCO MOTOR), CCW ROTATION 2 YEAR PARTS WARRANTY FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS UPBLAST FAN WHEEL ACCESS PORT 2 KEF-2 3 YEAR EXTENDED MOTOR WARRANTY ECM WIRING PACKAGE - PWM SIGNAL FROM ECPMO3 PREWIRE (TELCO MOTOR), CCW ROTATION 2 YEAR PARTS WARRANTY INLET PRESSURE GAUGE, 0-35' MANIFOLD PRESSURE GAUGE, -5 TO 15" WC AC INTERLOCK RELAY - 24VAC COIL MOTORIZED BACKDRAFT DAMPER FOR A2-D HOUSING - MEETS AMCA CLASS 1A RATING CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION - INCLUDES RECEPTACLE AND J-BOX 3 YEAR EXTENDED MOTOR WARRANTY 1 COOLING THERMOSTAT AND RELAY (NOT REQUIRED FOR EVAP) 7.5 TON 2 CIRCUIT (2.5/5) MODULAR PACKAGED AC COOLING OPTION FOR SIZE 2 DF/EH MUA (1125 TO 3000 CFM), 208V/230V, 3 PHASE. COOLING THERMOSTAT OR PROGRAMMABLE STAT REQUIRED FOR PROPER OPERATION SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY DOWNTURN PLENUM FOR SIZE 2 DX COIL MODULE SIZE 2 DIRECT FIRED HEATER LOW CFM PROFILE PACKAGE — USED ON HEATERS UNDER 2500 CFM

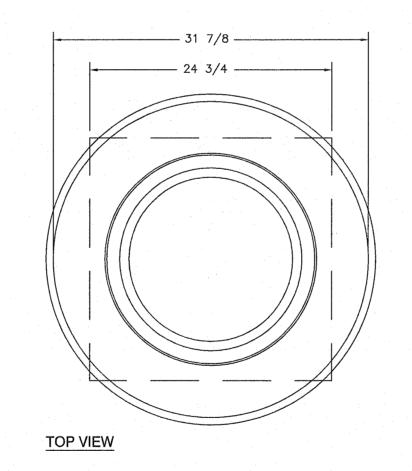
SIZE 2 MPU-AC MOISTURE ELIMINATOR OPTION - ALLOWS COOLING COIL FACE VELOCITY TO INCREASE TO 650 FPM - INCREASES COOLING COIL MAX CFM TO 3250 CFM

		1 :	2 YEAR PA	RTS WAF	RRANTY			
FAN	ACCESS	ORIES	5					
FAN UNIT	TAG		EXHAUST			SUPI	PLY	
NO	IAG	GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF-1	YES						
2	KEF-2	YES						
3	KMAU-1						YES	

9	CUF	B AS	SEMBLIES			
	NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
	-1	# 1	KEF-1	41 LBS	CURB	23.000"W X 23.000"L X 24.000"H 0.500:12.000 PITCH ALONG LENGTH, RIGHT VENTED HINGED.
	2	# 2	KEF-2	41 LBS	CURB	23.000"W X 23.000"L X 24.000"H 0.500:12.000 PITCH ALONG LENGTH, RIGHT VENTED HINGED.
	3	# 3	KMAU-1	107 LBS	CURB	31.000"W X 79.000"L X 20.000"H 0.500:12.000 PITCH ALONG WIDTH, RIGHT INSULATED.
		# 3			RAIL.	6.000"W X 31.000"L X 20.000"H 0.500:12.000 PITCH ALONG LENGTH, RIGHT.

FANS #1 (KEF-1), #2 (KEF-2) - DU85HFA EXHAUST FAN





FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).ROOF MOUNTED FANS.
- RESTAURANT MODEL.UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.

- NEMA 3R SAFETY DISCONNECT SWITCH.

WOULD CAUSE UNSAFE OPERATION.

GREASE CLASSIFICATION TESTING.

- INTERNAL OVERLOAD PROTECTION (SINCLE PHASE
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
 HIGH HEAT OPERATION 300°F (149°C).
- NORMAL TEMPERATURE TEST

 EXHAUST FAN MUST OPERATE CONTINUOUSLY
 WHILE EXHAUSTING AIR AT 300°F (149°C)
 UNTIL ALL FAN PARTS HAVE REACHED
 THERMAL EQUILIBRIUM, AND WITHOUT ANY

DETERIORATING EFFECTS TO THE FAN WHICH

- ABNORMAL FLARE—UP TEST

 EXHAUST FAN MUST OPERATE CONTINUOUSLY
 WHILE EXHAUSTING BURNING GREASE VAPORS
 AT 600°F (316°C) FOR A PERIOD OF
 15 MINUTES WITHOUT THE FAN BECOMING
 DAMAGED TO ANY EXTENT THAT COULD CAUSE
 AN UNSAFE CONDITION.
- OPTIONS

 GREASE BOX.

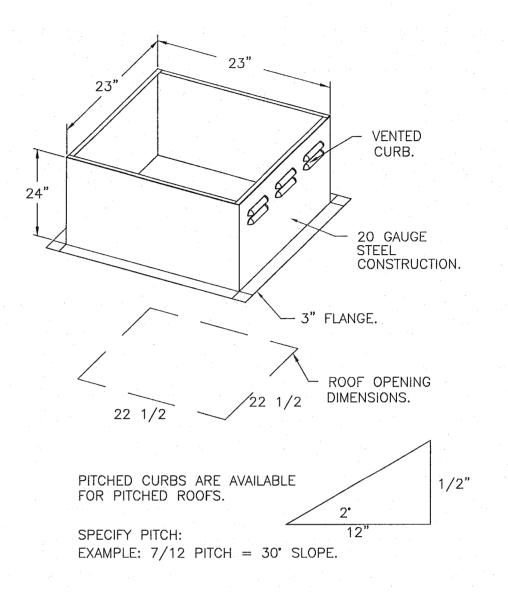
 FAN BASE CERAMIC SEAL INSTALLED AT PLANT FOR GREASE DUCTS.

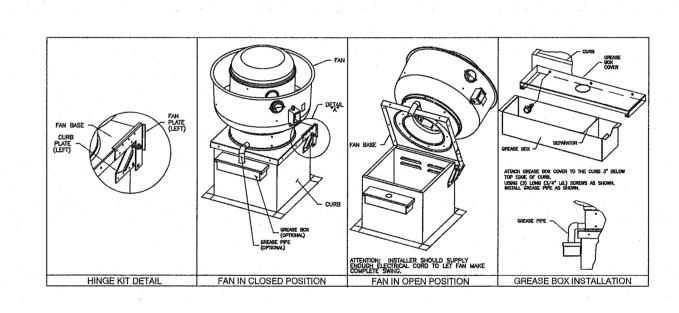
 UPBLAST FAN WHEEL ACCESS PORT.

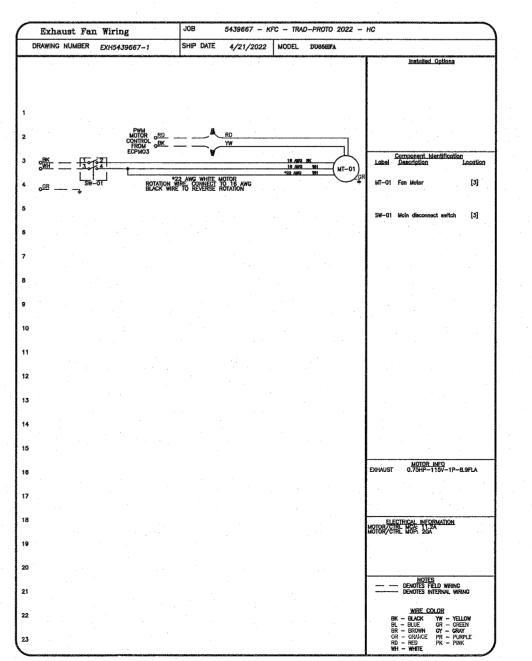
 3 YEAR EXTENDED MOTOR WARRANTY.

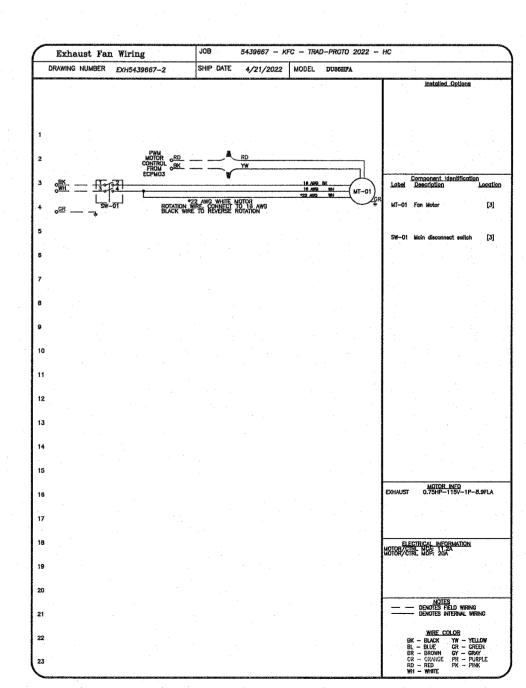
 ECM WIRING PACKAGE PWM SIGNAL FROM ECPMO3 PREWIRE (TELCO MOTOR), CCW

2 YEAR PARTS WARRANTY.











REVISIONS:

6807 Military Dr W, San Antonio, Tx. 78227

REVISIONS

DESCRIPTION

-PROTO 2022 - HC 64801 MAY 0 6 2022

KFC – TRAD-PROJOPLIN, MO, 648

DATE: 4/21/2022

DWG.#:

DWG.#: 5439667

DRAWN Josh / 146

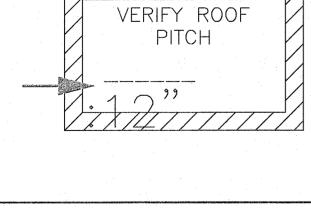
SCALE: 3/4" = 1'-0"

MASTER DRAWING

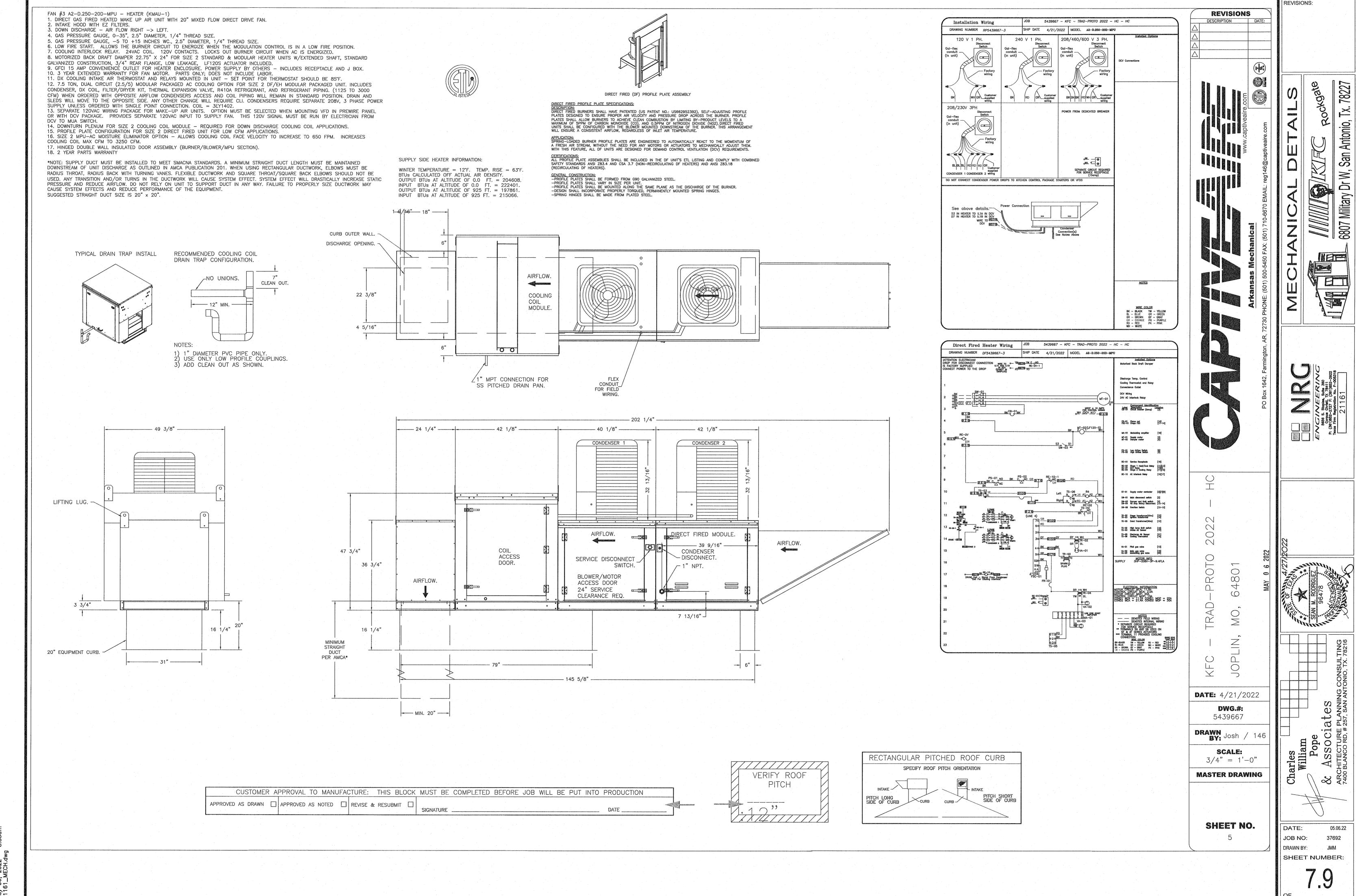
SHEET NO.

DATE:
JOB NO: 3

7.8



	CUSTOMER	APPROVAL	TO	MANUF	ACTURE:	THIS	BLOCK	MUST	BE	COMPLETED	BEFORE	JOB	WILL	BE	PUT	INTO	PRODUCTIO	N
APPROVED	AS DRAWN	[] ADDDOVED	4C N		REVISE	4. DECU) III											
AFFROVEL	AS DRAWN	APPROVED	AS N	IOTED	LI KEVISE	& KESU	SMII L.	SIGNAT	URE			-			-		DATE	
			-				-							-		-		



May 06, 2022 - 8:55am

I	LE	CTRICAL	PACKAGE	. – <i>J0B#543966</i> 7						·		· .	
		-			SWITCH	IES	OPTION	FAN	S CONTROLLI	ED ·			
	10	TAG	PACKAGE #	LOCATION	LOCATION	QUANTITY	or non	FAN TAG	TYPE	ф	HP	VOLT	FLA
F					03 - UTILITY CABINET	1 LIGHT		KEF-1	EXHAUST	1	0.750	115	8.9
	1		DCV-2111	UTILITY CABINET LEFT	LEFT	1 2.0	SMART CONTROLS DCV	KEF-2	EXHAUST	1	0.750	115	8.9
					HOOD # 1	1 FAN		KMAU-1	SUPPLY	3	3.000	208	9.4

ELECTRICIAN NOTES :

All Hood/Fan/DCV/UDS/PCU electrical

Electrician to provide, install, and land wiring between hood lights, hood temp

microswitches, and any other component

requiring an electrical connection to the

interconnections will result in the electrical

controls not working properly. Any loss or

failed test as a result of electrical controls

not working properly is the responsibility of

| Failure by the Electrician to make ALL

required electrical connections and

Light bulbs for kitchen hoods to be

provided and installed by electrician.

provided and installed by Electrician.

sensors, remote Ansul system

Captive—Aire electrical package.

the Electrician.

connections and interconnections to be

CUSTOMER A	APPROVAL TO MA	NUFACTURE:	THIS BLOC	K MUST	BE COMPLETED	BEFORE	JOB WILL	BE PUT	INTO	PRODUCTION	
APPROVED AS DRAWN	APPROVED AS NOTE	D REVISE	& RESUBMIT] SIGNATU	IDE					DATE	
				SIGNATO	JIL		-				

DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

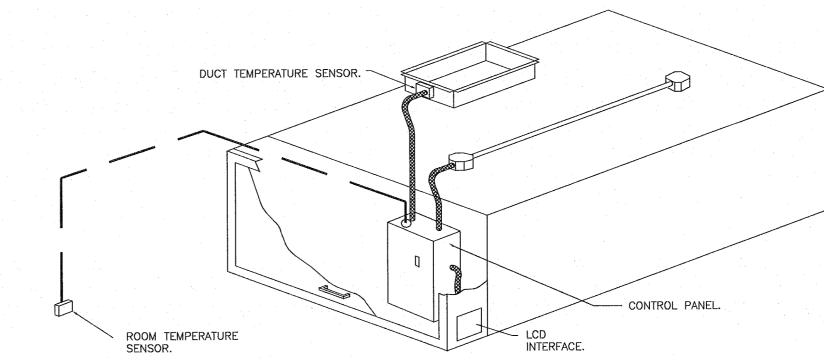
- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.2.8 (2015).

- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.

- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.

- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.

- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN
- VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES: ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
 - INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED). VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION. G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDS.



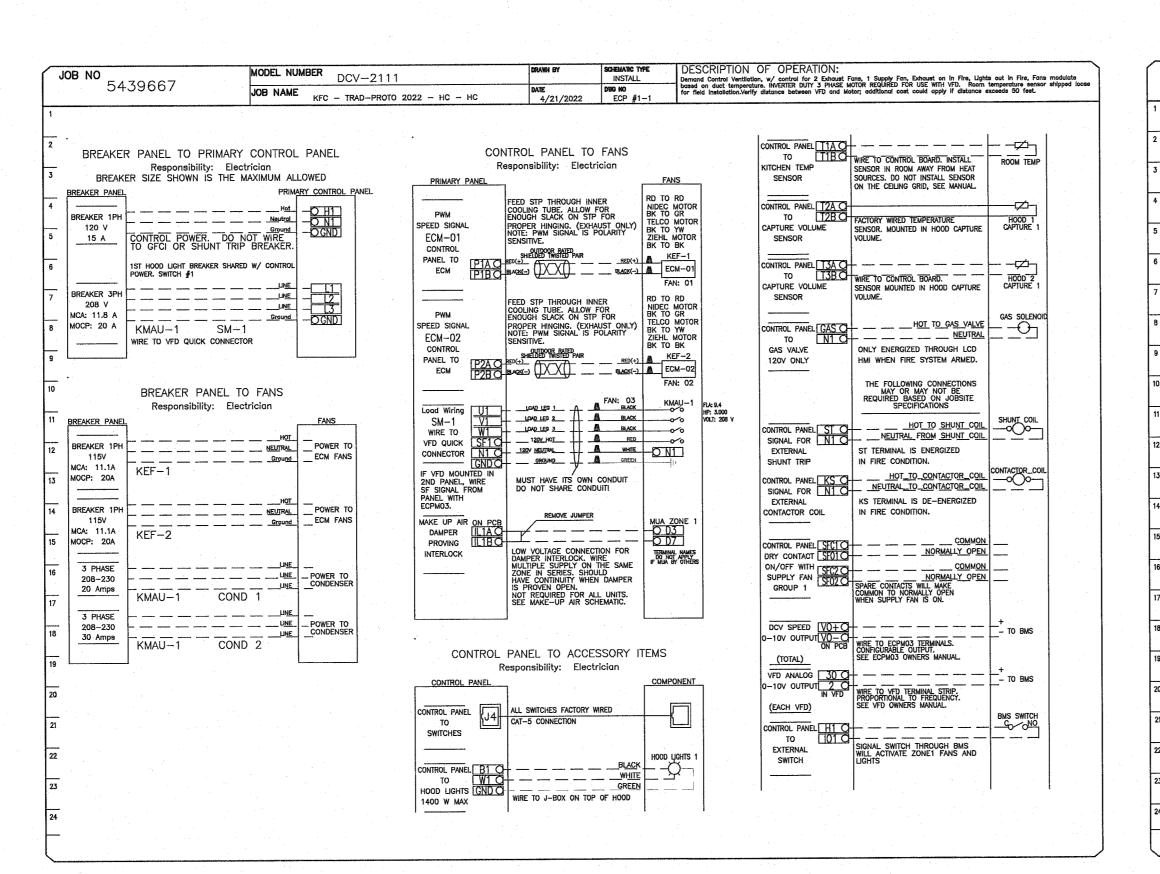
TYPICAL HOOD CONTROL PANEL INSTALLATION

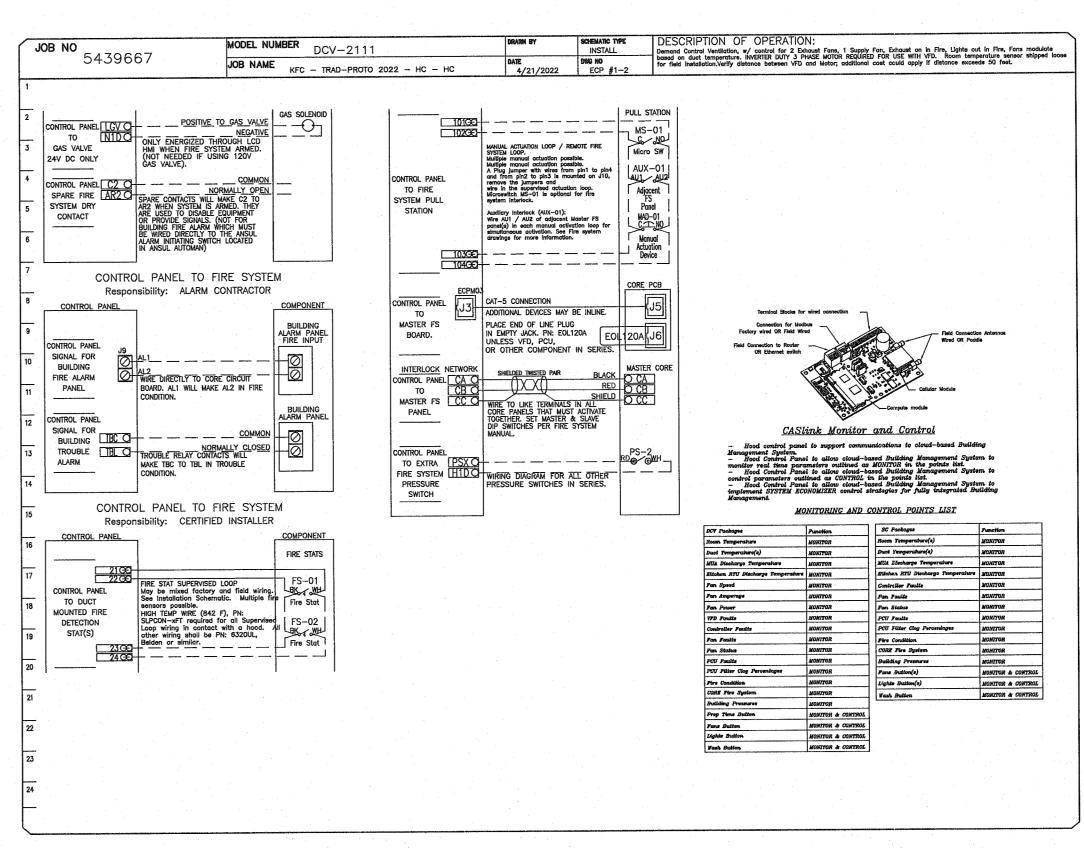
SEQUENCE OF OPERATIONS:

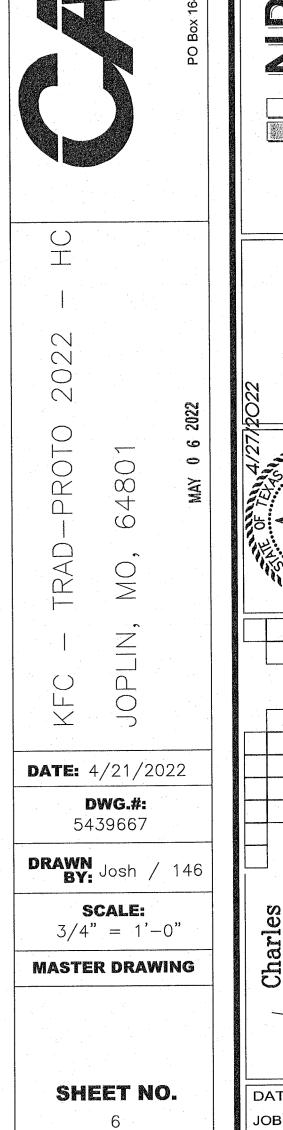
THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- AUTOMATIC: THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.2.8.
- MANUAL: THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
- SCHEDULE: A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
- OTHER: THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).

FIRE: UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.







REVISIONS

REVISIONS:

OZ

6807 Military Dr W, San Antonio, Tx. 78227

ates PLANNII

ASSOCIA Pope & ARC

DATE: JOB NO: 37692 DRAWN BY:

SHEET NUMBER:

					DUCTWORK	#1 PA	RTS -	J0B#543	3966	37 DOUBLE WALL KH-1
TAG	PART #	СГМ	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1435DWLT-2R-S	1800				-0.0147	46.53	1683.79	1	DOUBLE WALL DUCT - 14" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P2	DW1447DWAJD-2R-S	1800				-0.0173	93.18	1683.79	1	DOUBLE WALL ADJUSTABLE DUCT - 14" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P3 ASSEMBLED W/P4	DW1435DWLTTP-2R-S	1800				-0.015	48.06	1683.79	1	DOUBLE WALL DUCT - 14" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE.
P4 ASSEMBLED W/P3	DW2314TP	1800					8.49	1683.79	1	DUCT TO CURB TRANSITION, 23" CURB TO 14" DUCT, 16 GA ALUMINIZED. USED ON BDU15, DU75 & 85.
SYSTEM AT P4						-0.935	0.00		-	
P5	DW1435DWLT-2R-S	1800				-0.0147	46.53	1683.79	1	DOUBLE WALL DUCT - 14" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P6	DW1447DWAJD-2R-S	1800				-0.0173	93.18	1683.79	1	DOUBLE WALL ADJUSTABLE DUCT - 14" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P7 ASSEMBLED W/P8	DW1435DWLTTP-2R-S	1800				-0.015	48.06	1683.79	1	DOUBLE WALL DUCT - 14" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE.
P8 ASSEMBLED W/P7	DW2314TP	1800					8.49	1683.79	1	DUCT TO CURB TRANSITION, 23" CURB TO 14" DUCT, 16 GA ALUMINIZED. USED ON BDU15, DU75 & 85.
SYSTEM AT P8						-0.935	0.00			
	3M-2000PLUS						0.80		2	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
TOTAL WEIGHT							394.12			

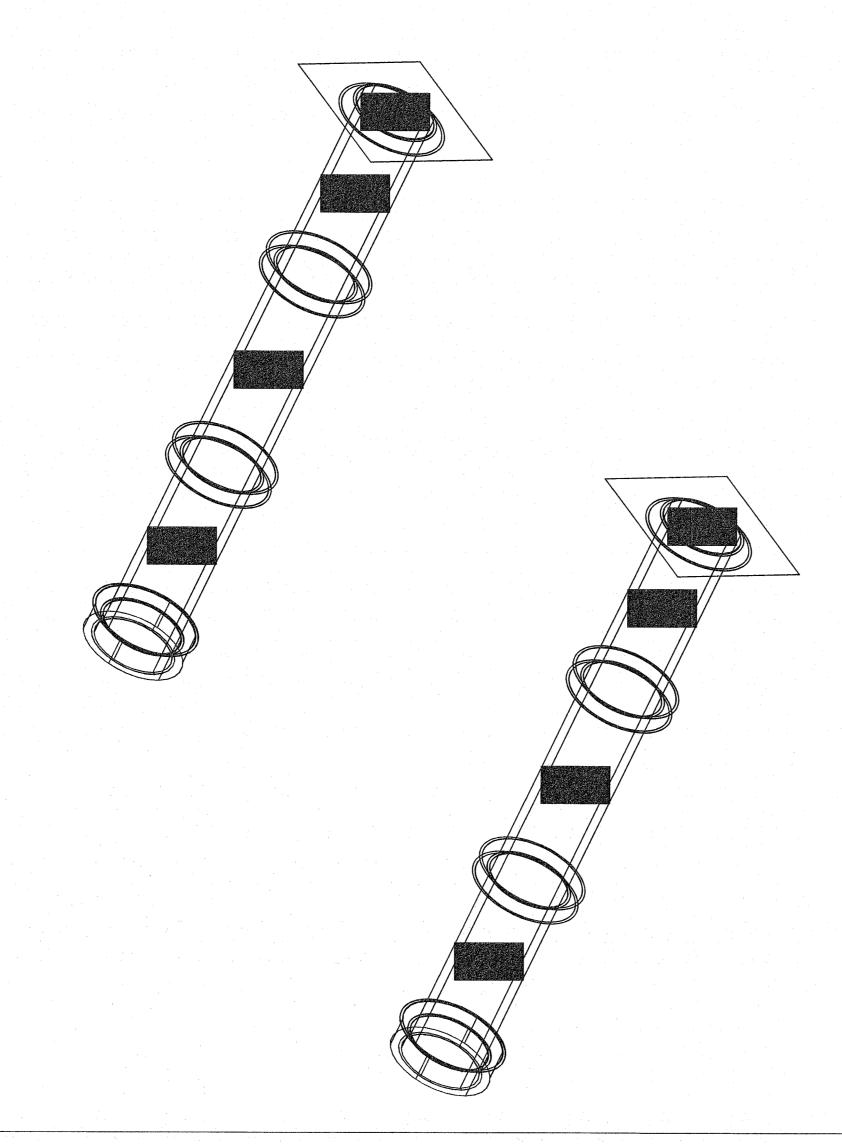
DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

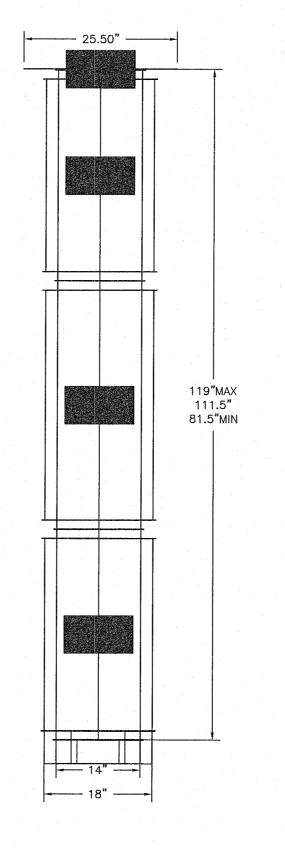
	HORIZO	DNTAL
DUCT DIAMETER		SUPPORT SPACING (FT)
5"		7'
 6"		7'
7"		7'
8"		7'
 10"		7'
12"		7'
14"		7'
16 "		7'
18"		5'
20"		5'
22"		5'
24"		5'
26"		5'
28"		5'
30"		5'
32"		5'
34"		5'
36"		5'

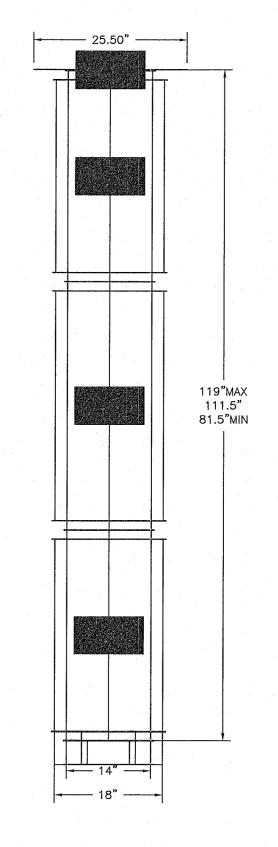
	VER	TICAL.	
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5"-16")	20'	24'	24'
2R (18")	18'	24'	24'
3R & 3Z (5"-24")	10'	24'	24'
3Z (26" –36")	10'	20'	20'

DUCTWORK #1 SE VIEW KH-1



DUCTWORK #1 FRONT VIEW KH-1







2022

-PROTO

64801

JOPLIN,

REVISIONS

PO Box 1642, Farming
PO Box 1642, Farming

ENCINEERING
Sectors Stoples, Suite 360
Corpus Christl, TX 78411
P: (349)1852-2727 F: (349)18241
Fixes Firm Besterding No. F. 2007318

SEAN M. RODRIGUEZ
96478
1G

TOS ANNING CONSULTING 7, SAN ANTONIO, TX. 78216

DWG.#:
5439667

DRAWN Josh / 146

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

DATE: 4/21/2022

3/4" = 1'-0" **MASTER DRAWING**

SHEET NO.

DATE: 05.06.22

JOB NO: 37692

DRAWN BY: JMM

SHEET NUMBER:

7.11

- 3. FOR ALL FIXTURES AND EQUIPMENT WITH ASSOCIATED TRIM OR COMPONENT ACCESSORIES, PROVIDE UNDER SEPARATE DIVISIONS AND REQUIRING PLUMBING CONNECTIONS; THIS CONTRACTOR SHALL FIELD COORDINATE EXACT REQUIREMENTS OF, MAKE PROVISIONS FOR, AND SUPPLY ALL MATERIALS AND LABOR FOR MAKING FINAL CONNECTIONS.
- 4. CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF EQUIPMENT TO BE SUPPLIED FOR FINAL COORDINATION OF ALL ROUGH—IN OPENINGS BEFORE BEGINNING WORK.
- 5. ALL FIXTURE AND EQUIPMENT STUB-OUTS SHALL BE PROVIDED WITH A STOP VALVE. ALL FIXTURE STOPS SHALL BE SOLID BRASS, LOOSE KEY OPERATED, CHROME PLATED (WERE EXPOSED), AND FITTED TIGHT TO CHROME PLATED BRASS WALL ESCUTCHEON PLATES. SUPPLY RISERS SHALL BE TYPE "L" TUBING, CHROME PLATED. PROVIDE 1/2" FIP X 3/8" OD COMPRESSION FITTINGS FOR ALL SINKS, LAVATORIES, AND SIMILAR FIXTURES.
- 6. ALL P-TRAPS WITHIN THE BUILDING, ABOVE GRADE AND EXPOSED TO INSPECTION SHALL BE CHROME PLATED ADJUSTABLE, CAST BRASS WITH CLEANOUT PLUG. PROVIDE CAST SLIP NUTS AND WASHERS, 17 GAGE SEAMLESS TUBULAR BRASS DRAIN TO WALL AND WALL FLANGE. PROVIDE 1-1/2" P-TRAP FOR ALL LAVATORIES AND SIMILAR FIXTURES. PROVIDE 1-1/2" P-TRAP FOR ALL SINKS AND SIMILAR FIXTURES, MCGUIRE OR EQUAL
- 7. ALL ROUGH—IN OPENINGS SHALL BE FITTED WITH CHROME PLATED, WROUGHT BRASS DEEP BELL OR BOX ESCUTCHEON PLATES FITTED TIGHT TO PIPE AND FLUSH TO WALL. STEEL ESCUTCHEON PLATES ARE NOT ACCEPTED.
- 8. ALL EXPOSED BRASS SHALL BE CHROME PLATED.
- 9. ALL HANDICAPPED ACCESSIBLE FIXTURES SHALL BE OF APPROVED TYPES AND WITH REQUIRED CONTROLS INSTALLED TO HEIGHTS AND CLEARANCES, AS PRESCRIBED BY THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE TEXAS ACCESSIBILITY STANDARDS (TAS). FIXTURES SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL ACCESSIBILITY CODE REQUIREMENTS. PROVIDE FIXTURES WITH DEPTHS AT MAXIMUM PERMITTED AND AVAILABLE FOR INTENDED FIXTURE USE.
- 10. INSULATE ALL EXPOSED WATER AND DRAIN LINES ON ADA/TAS ACCESSIBLE LAVATORIES AND SINKS WITH MCGUIRE PRO WRAP OR EQUAL. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO PROVIDE MINIMUM CLEARANCES.
- 11. ALL ADA/TAS SINKS SHALL BE STAMPED WITH DRAIN OUTLET AT THE REAR OF THE BOWL.
- 12. PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION TYPE IN ACCORDANCE WITH SENATE BILL 587 FOR WATER SAVING PERFORMANCE. LAVATORY AND SINK FAUCETS SHALL INCLUDE 2.2 GPM FLOW CONTROL.
- 13. ORIENT ADA/TAS WATER CLOSET FLUSH VALVE WITH OPERATOR ON LARGE SIDE OF ENCLOSURE AND BELOW GRAB BARS.
- 14. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE LATEX CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.
- 15. FLOOR DRAINS SHALL BE INSTALLED AT LOW POINTS OF UNIFORMLY SLOPED FLOOR. CONTRACTOR SHALL FIELD COORDINATE WITH STRUCTURAL TO INSURE FLOORS ARE UNIFORMLY SLOPED ACROSS ENTIRE TOILET ROOMS OR OVER AS WIDE AN AREA AS PRACTICAL FOR OPEN AREA FLOOR DRAINS. CONVEX FLOOR SLOPE IN THE IMMEDIATE VICINITY OF THE FLOOR DRAIN IS NOT ACCEPTABLE.
- 16. EQUIVALENT MANUFACTURES OF CHINA FIXTURES ARE KOHLER, ELJIER, AND CRANE. EQUIVALENT MANUFACTURES OF STAINLESS FIXTURES ARE JUST AND ELKAY.
- 17. WATER HEATER SHALL BE PROVIDED WITH CODE APPROVED VACUUM BREAKER AND BRASS ASME TEMPERATURE AND PRESSURE RELIEF VALVE. ROUTE TPR DRAIN LINE FULL SIZED TO EXTERIOR OF BUILDING AND TERMINATE 6" ABOVE FINISHED GRADE, OR AS INDICATED ON PLANS.
- 18. ROOF PENETRATIONS SHALL BE DONE IN STRICT COMPLIANCE WITH THE ARCHITECTS SPECIFICATIONS AND SHALL BE LEAK
- 19. FIELD VERIFY ALL EXISTING CONDITIONS AND LOCATION OF STUB OUTS. NOTIFY ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY WHICH MAY AFFECT THE INTENDED DESIGN.
- 20. ALL PLUMBING WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL STATE AND LOCAL CODES.
- 21. THE PLUMBING CONTRACTOR SHALL GUARANTEE THE COMPLETE PLUMBING SYSTEM TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF 12 MONTHS FROM DATE OF FINAL ACCEPTANCE.
- 22. ALL WATER HEATER SUPPLY CONNECTIONS SHALL HAVE HEAT TRAP NIPPLE CONNECTIONS. HEAT TRAP NIPPLES NOT REQUIRED IF HOT WATER RECIRCULATION SYSTEM IS

THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND DISMANTLING OF TEMPORARY POWER USED FOR CONSTRUCTION AND ALL COSTS INCURRED AS A RESULT OF THIS WORK. COORDINATE ALL TEMPORARY ELECTRICAL SERVICE WORK WITH LOCAL UTILITY COMPANY PRIOR TO COMMENCING WORK.

WORK UNDER THIS CONTRACT INCLUDES PROVIDING NEW MATERIALS, DEVICES, AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING ELECTRICAL SYSTEM. FOR PROJECTS WHERE BUILDING IS EXISTING, WORK SHALL INCLUDE MODIFICATIONS TO EXISTING ELECTRICAL SYSTEM AS REQUIRED TO ACCOMPLISH A MODIFIED, COMPLETE FUNCTIONING SYSTEM. WHERE APPLICABLE, THE WORK SHALL ALSO INCLUDE ELECTRICAL BRANCH CIRCUITS, DISCONNECTING MEANS AND FINAL CONNECTIONS TO EQUIPMENT PROVIDED BY OTHER TRADES/DISCIPLINES AND/OR OWNER (SUCH AS BUT NOT LIMITED TO MECHANICAL EQUIPMENT, PLUMBING EQUIPMENT, FOOD SERVICE EQUIPMENT, ETC). ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES, ALL LOCAL APPLICABLE ORDINANCES AND LAWS, AS WELL AS, SUBJECT TO INSPECTION.

THE INTENT OF THESE DRAWINGS ARE TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC, SHOWING THE LOCATION, TYPE, DEVICES, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. PROVIDE ALL DEVICE ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PROPER OPERATION OF ALL SYSTEMS AND THEIR ASSOCIATED EQUIPMENT AS INDICATED BY THE DESIGN ON THESE PLANS.

COORDINATE WITH THE WORK OF ALL OTHER TRADES/DISCIPLINES. VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. REFER TO COMPLETE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION REGARDING RELATED EQUIPMENT, CASEWORK, AND ELECTRICAL CONNECTIONS REQUIRED THEREIN.

COMPLY WITH THE LATEST EDITION OF NFPA 70/NATIONAL ELECTRICAL CODE (NEC) NFPA, OSHA, LIFE SAFETY CODES, AND ALL APPLICABLE LAWS IN EFFECT AT THE TIME OF THIS PROPOSAL. IN THE CASE OF CONFLICT, THEN THE STRICTER INTERPRETATION SHALL TAKE PRECEDENCE. ALL MATERIALS USED SHALL BE NEW AND SHALL CONFORM TO THE STANDARDS ESTABLISHED BY THE UNDERWRITER'S LABORATORIES INC.

PANELBOARDS: SHALL BE AS MANUFACTURED BY SQUARE D, EATON, OR SIEMENS. ALL EQUIPMENT SHALL BE U.L. LISTED AND MEET OR EXCEED ALL OF THE LATEST APPLICABLE U.L. AND NEMA STANDARDS. BUSSING SHALL BE COPPER WITH SILVER OR TIN PLATING. PROVIDE SOLID NEUTRAL BAR. PROVIDE TYPED DIRECTORY OF ALL CIRCUITS W/ SPECIFIC LOAD AND/OR ROOM/LOCATION DESCRIPTIONS, UTILIZING FINAL ROOM/SPACE NUMBERS OR DESIGNATIONS. COPYING PANEL SCHEDULES FROM DRAWINGS IS NOT ACCEPTABLE.

<u>DISCONNECT SWITCHES</u>: SHALL BE HEAVY—DUTY TYPE AS MANUFACTURED BY SQUARE D, EATON, OR SIEMENS. ALL EQUIPMENT SHALL BE U.L. LISTED AND MEET OR EXCEED ALL OF THE LATEST APPLICABLE U.L. AND NEMA STANDARDS. DO NOT MOUNT DISCONNECT SWITCHES TO ANY HVAC UNIT. LOCATION TO BE COORDINATED WITH MECHANICAL CONTRACTOR.

TRANSFORMERS: SHALL BE AS MANUFACTURED BY SQUARE D, EATON, OR SIEMENS. ALL EQUIPMENT SHALL BE U.L. LISTED AND MEET OR EXCEED ALL OF THE LATEST APPLICABLE U.L. AND NEMA STANDARDS. <u>CIRCUIT</u>

BREAKERS: THERMAL MAGNETIC TYPE, QUICK-MAKE, QUICK-BREAK, BOLT-ON TYPE OF SINGLE UNIT CONSTRUCTION. TWO AND THREE POLE BREAKERS SHALL BE SINGLE UNIT COMMON TRIP TYPE. BREAKERS USED AS A SWITCH FOR 120 VOLT LIGHTING CIRCUITS SHALL BE APPROVED FOR THAT USE AND MARKED "SWD". BREAKERS USED FOR PROTECTING HVAC EQUIPMENT SHALL BE RATED 'HACR'.

CABINETS: SHALL BE ONE PIECE CODE GAGE GALVANIZED STEEL WITH MOUNTING STUDS, WIRING GUTTERS OF AMPLE SIZE AND KNOCKOUTS FOR CONDUIT CONNECTIONS AS REQUIRED. FRONTS SHALL BE ONE PIECE CODE GAGE FURNITURE STEEL WITH ADJUSTABLE FASTENERS. PROVIDE FLUSH MOUNT UNITS UNLESS OTHERWISE INDICATED. PROVIDE A PLASTIC COVERED TYPEWRITTEN SCHEDULE IDENTIFYING ALL BRANCH CIRCUITS INSIDE EACH CABINET.

GROUNDING SYSTEM: PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUIT, SUPPORTS, CABINETS, PANELBOARDS AND SYSTEM NEUTRAL CONDUCTORS. MAINTAIN CONTINUITY OF EQUIPMENT GROUND THROUGHOUT THE SYSTEM. GROUND CLAMPS SHALL BE APPROVED TYPE, SPECIFICALLY DESIGNED FOR GROUNDING. WHERE GROUNDING CONDUCTORS ARE ENCLOSED IN CONDUIT, GROUND CLAMPS SHALL BE OF A TYPE WHICH GROUND BOTH CONDUCTOR AND CONDUIT. ALL CIRCUITS IN FLEXIBLE METAL OR PLASTIC CONDUIT SHALL INCLUDE A GROUND WIRE SIZE IN ACCORDANCE WITH NEC TABLE 250.

SURGE PROTECTION DEVICE (SPD): SPDS SHALL BE UL1449, LATEST EDITION, LISTED AND MANUFACTURED BY THOR, SQUARE D, EATON OR SIEMENS. SPDs SHALL HAVE STANDARD 7—MODE PROTECTION AND SERVICE ENTRANCE & INTERMEDIATE DISTRIBUTION UNITS SHALL BE UL LABELED WITH 20kA I—NOMINAL. UNLESS OTHERWISE INDICATED ON DRAWINGS, SURGE CURRENT CAPABILITY FOR SERVICE ENTRANCE DEVICES SHALL BE 300kA PER PHASE, 200kA PER PHASE FOR INTERMEDIATE DISTRIBUTION OR ROOF MOUNTED BRANCH PANELS, AND 100kA FOR BRANCH PANELS. SPDs SHALL BE EXTERNAL TO EQUIPMENT UNLESS NOTED OTHERWISE ON DRAWING. ELECTRICAL CONTRACTOR SHALL COORDINATE PLACEMENT/INSTALLATION OF SPD, ENSURING SPDs ARE INSTALLED IMMEDIATELY ADJACENT TO THE PANEL BEING SERVED WITH SHORTEST POSSIBLE CONDUCTOR LENGTHS.

CONDUIT/RACEWAYS/CABLE: SHALL BE SIZED TO COMPLY WITH NEC FOR NUMBER AND SIZE OF CONDUCTORS INSTALLED, INCLUDING ADJUSTMENTS FOR AMBIENT TEMPERATURES, MULTIPLE CURRENT CARRYING CONDUCTORS, VOLTAGE DROP, ETC. ALL CIRCUITS SHALL HAVE DEDICATED NEUTRAL (GROUNDED CONDUCTOR). RACEWAYS IN INTERIOR DRY LOCATIONS SHALL BE EMT, RIGID GALVANIZED STEEL, AND/OR INTERMEDIATE STEEL CONDUIT. RACEWAYS INSTALLED IN INTERIOR OR EXTERIOR WET LOCATIONS (EXCLUDING ROOF OR WHERE EXPOSED TO PHYSICAL DAMAGE) SHALL BE SCH. 40 OR 80 PVC, RIGID GALVANIZED STEEL OR RIGID ALUMINUM. RACEWAYS INSTALLED IN AREAS EXPOSED TO PHYSICAL DAMAGE SHALL BE RIGID GALVANIZED STEEL OR PVC COATED RIGID GALVANIZED STEEL. REFER TO ROOF ELECTRICAL REQUIREMENTS FOR RACEWAYS INSTALLED ON ROOF.

UNDERGROUND AND/OR UNDER FLOOR CONDUIT SHALL BE SCHEDULE 40 PVC CONDUIT, MINIMUM SIZE 3/4". PROVIDE SCHEDULE 80 PVC ELBOWS AND RISERS THROUGH FLOORS. ALL RISERS THROUGH FLOORS SHALL BE SLEEVED. PROVIDE EXPANSION COUPLING AT LOCATIONS WHERE SURROUNDING SOILS AND BUILDING FOUNDATION MAY EXPERIENCE DIFFERENTIAL MOVEMENT. UNDERGROUND BRANCH CIRCUITS SHALL BE BURIED A MINIMUM OF 18" BELOW FINISHED GRADE, AND FEEDERS A MINIMUM OF 24" BELOW FINISHED GRADE. UNDERGROUND SECONDARY FEEDERS FROM UTILITY TRANSFORMERS SHALL BE MINIMUM 36" BELOW FINISHED GRADE, OR PER SERVING UTILITY COMPANY STANDARDS, WHICH EVER IS GREATER/DEEPER. UNDERGROUND PRIMARY FEEDERS TO UTILITY TRANSFORMERS SHALL COMPLY WITH SERVING UTILITY STANDARDS. CONTRACTOR SHALL COORDINATE WORK RELATED TO SERVING UTILITY. REQUIREMENTS FOR SECONDARY AND PRIMARY FEEDERS BY SERVING UTILITY COMPANY SHALL SUPERCEDE REQUIREMENTS OUTLINED IN CONTRACT DOCUMENTS. WHERE ALLOWED BY LOCAL JURISDICTIONS, RIGID GALVANIZED STEEL OR PVC COATED RIGID GALVANIZED STEEL MAY BE SUBSTITUTED FOR SCH. 40 AND SCH. 80 PVC.

MC CABLE IS APPROVED FOR INSTALLATION WITHIN METAL OR WOOD STUD WALLS AS JUMPERS BETWEEN DEVICES, WITHIN METAL OR WOOD STUD WALLS FROM A DEVICE UP TO A JUNCTION BOX ABOVE, AND FOR LIGHT FIXTURE WHIPS. MC CABLE SHALL NOT BE INSTALLED ABOVE AND/OR ACROSS CEILINGS OR AS HOMERUNS.

RACEWAY AND/OR CABLE INSTALLATION SHALL COMPLY, WHEN APPLICABLE, WITH NEC REQUIREMENTS FOR REDUNDANT GROUNDING IN HEALTH CARE AND CLINICS. SEPARATE RACEWAYS SHALL BE INSTALLED FOR VARIOUS SYSTEMS OF EMERGENCY SYSTEMS AS REQUIRED BY NEC. WHEN APPLICABLE.

CONDUCTORS: INSULATED SOFT ANNEALED 98% PURE COPPER WITH COLOR CODING, B AND S GAGE, #12 TO BE SOLID OR STRANDED, #10 AND LARGER TO BE STRANDED, MINIMUM SIZE CONDUCTOR SHALL BE #12, UNLESS OTHERWISE INDICATED. ALL EQUIPMENT TO BE PROVIDED WITH CU/AL 75° DEGREE C. TERMINAL LUGS. CONDUCTORS WITH "THHN" INSULATION MAY NOT BE USED UNDERGROUND AT SERVICE ENTRANCES, OUTSIDE, OR IN WET LOCATIONS. ALL INSULATION TO BE RATED FOR 90° DEGREE C OR 600 VOLT AND TYPES AS FOLLOWS:

BRANCH CIRCUITS	THHN, THWN2
	THWN2
SERVICE ENTRANCE	THWN2, XHHW, XHHW2

GENERAL RECEPTACLE NOTE: RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE WHERE REQUIRED BY NEC, SHALL BE GFCI WHERE REQUIRED BY NEC, AND BE PROTECTED BY AFCI BREAKER OR OTHER MEANS WHERE REQUIRED BY NEC.

DEVICES & COVERPLATES:

<u>PUBLIC AREAS:</u> ALL DEVICES AND COVERPLATES SHALL BE STAINLESS STEEL. STANDARD DUPLEX RECEPTACLES SHALL BE GROUNDING TYPE, 20 AMP, NEMA 5-20R, SIDE OR BACK WIRED.

SINGLE RECEPTACLE: 15 AMP, 125 VOLT, 2—POLE, 3—WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5—15R. HUBBELL #5251—#. (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING).

<u>DUPLEX RECEPTACLE:</u> 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5-20R. HUBBELL #5342-#. (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING).

GROUND—FAULT INTERRUPTER RECEPTACLE: 20 AMP, 125 VOLT, 2—POLE, 3—WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5—20R, FEED—THRU TYPE CAPABLE OF PROTECTING CONNECTED DOWNSTREAM RECEPTACLES. UL RATED CLASS A, GROUP 1, SOLID STATE GROUND—FAULT SENSING LEVEL WITH 5 ma GROUND—FAULT TRIP LEVEL. HUBBELL #1G5362#. (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING).

WEATHERPROOF RECEPTACLE: SHALL BE A GROUND-FAULT INTERRUPTER DUPLEX TYPE RECEPTACLE WITH EXTRA DUTY DIE—CAST IN—USE COVERS. COVERS SHALL NOT BE POLYCARBONATE/PLASTIC. RECEPTACLES SHALL BE LISTED AS 'WEATHER—RESISTANT'.

TOGGLE TYPE SWITCH: 20 AMP, 120/277 VOLT AC SINGLE—POLE, QUIET TYPE, WITH MOUNTING YOKE INSULATED FROM MECHANISM, EQUIPPED WITH PLASTER EARS, SIDE—WIRED SCREW TERMINALS. HUBBELL #HBL 12211.

LIGHTING FIXTURES: ALL LIGHTING FIXTURES AND ASSOCIATED DIMMERS, DRIVERS, LAMPS AND BALLASTS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

LAYOUT BRANCH CIRCUIT WIRING AND ARRANGE HOMERUNS FOR MAXIMUM ECONOMY AND

EFFICIENCY. INCREASE WIRE AND CONDUIT SIZE ACCORDINGLY IF VOLTAGE DROP EXCEEDS 3% OR LENGTH OF RUN EXCEEDS 100 FEET.

CONCEAL WIRING SYSTEM ABOVE SUSPENDED CEILINGS OR IN WALL OR FLOOR CONSTRUCTION WHERE POSSIBLE. INSTALL CONDUIT PARALLEL OR PERPENDICULAR TO ALL BUILDING LINES, SUCH THAT ALL OPENINGS, DEPRESSIONS, PIPES, DUCTS, STRUCTURE, ETC. ARE AVOIDED.

INSTALL CONDUIT CONTINUOUS BETWEEN BOXES AND CABINETS WITH NO MORE THAN FOUR (4) 90° DEGREE BENDS. SECURELY FASTEN IN PLACE WITH STRAPS, HANGERS AND STEEL SUPPORTS AS REQUIRED. DO NOT SUPPORT CONDUIT FROM SUSPENDED CEILING GRID OR SUSPENSION WIRES. REAM CONDUIT ENDS AND THOROUGHLY CLEAN BEFORE INSTALLATION. OPENINGS SHALL BE PLUGGED OR COVERED TO KEEP CONDUIT FREE OF DEBRIS. SWITCHES AND OUTLETS SHALL NOT BE USED TO "FEED THRU" TO THE NEXT SWITCH OR OUTLET. THE DISCONNECTION OR REMOVAL OF A RECEPTACLE, FIXTURE OR OTHER DEVICE FED FROM A BOX SHALL NOT INTERFERE WITH OR INTERRUPT THE CONDUCTOR CONTINUITY.

ADJUSTING AND TESTING: ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED AND TESTED FOR PROPER OPERATION. COMPLETED WIRING SYSTEM SHALL BE FREE OF SHORT CIRCUITS.

TOUCH-UP OR REFINISH DAMAGED SURFACES OF FIXTURES AND EQUIPMENT, EXPOSED TO VIEW, TO PRESENT A "NEW" APPEARANCE.

ALL CONDUIT AND JUNCTION BOXES LOCATED WITHIN AN EXPOSED STRUCTURAL SYSTEM SHALL BE PAINTED TO MATCH THE COLOR OF THE STRUCTURE (COLOR TO BE VERIFIED WITH ARCHITECT).

ALL LAMPS, FIXTURES AND ASSOCIATED HOUSINGS, LENSES, AND LOUVERS SHALL BE CLEANED PRIOR TO OWNER ACCEPTANCE.

2-POLE, 3-WAY & 4-WAY SWITCHES SHALL BE OF THE SAME MAKE AS FOR SINGLE-POLE.

PROVIDE JUNCTION BOX COVERS, KNOCK OUT FILLERS, DEVICE COVER PLATES, ETC. FOR ALL OPENINGS AS REQUIRED BY NEC. FOR EXISTING BUILDINGS, ELECTRICAL CONTRACTOR SHALL PROVIDE THE SAME FOR ALL EXISTING WORK WITHIN THE WORK AREA, WHETHER CONDITION WAS EXISTING OR NOT, IN ORDER TO SATISFY NEC AND LOCAL INSPECTION REQUIREMENTS. ALL UNUSED OUTLET BOXES SUCH AS BUT NOT LIMITED TO TELECOMM/DATA BOXES, CABLE TV BOXES, ETC., SHALL BE PROVIDED WITH BLANK COVER PLATE TO MATCH DEVICES IN ROOM/SPACE.

ELECTRICAL EQUIPMENT IDENTIFICATION:

A. ENGRAVED PLASTIC—LAMINATE NAMEPLATES: SHALL BE ENGRAVING STOCK MELAMINE PLASTIC LAMINATE 1/16" THICK, 1-1/2" HIGH (2" HIGH FOR 2 LINES OF TEXT) WITH 1/2" HIGH ENGRAVER'S STYLE LETTERS. COLOR SHALL BE BLACK WITH WHITE LETTERING. NAMEPLATE SHALL BE PUNCHED FOR MECHANICAL FASTENING WITH SELF—TAPPING STAINLESS STEEL SCREWS. UNLESS ADHESIVE MOUNTING IS NECESSARY DUE TO SUBSTRATE MATERIAL.

B. UNDERGROUND-TYPE PLASTIC LINE MARKER: SHALL BE PERMANENT, BRIGHT COLORED, CONTINUOUS-PRINTED PLASTIC TAPE, INTENDED FOR DIRECT BURIAL SERVICE, NOT LESS THAN 6" WIDE x 4 MILS THICK. PROVIDE TAPE WITH WORDED PRINT WHICH MOST ACCURATELY DESCRIBES THE TYPE OF SERVICE FOR BURIED CABLE.

C. CABLE/CONDUCTOR IDENTIFICATION BANDS: SHALL BE VINYL-CLOTH, SELF-ADHESIVE, WRAP-AROUND TYPE MARKER; EITHER PRE-NUMBERED PLASTIC COATED TYPE OR WRITE-ON TYPE WITH CLEAR PLASTIC SELF- ADHESIVE COVER FLAP; NUMBERED TO SHOW CIRCUIT IDENTIFICATION.

ROOF ELECTRICAL REQUIREMENTS:

CONTRACTOR SHALL CAREFULLY REVIEW ALL CONTRACT DOCUMENTS. INFORMATIC REGARDING WORK OF THE VARIOUS TRADES AND SUBCONTRACTORS ARE DISPER THROUGHOUT THE DOCUMENTS AND CANNOT BE ACCURATELY DETERMINED WITH REFERENCE TO THE FULL SET OF DOCUMENTS.

CONTRACTOR SHALL COORDINATE INSTALLATION OF SYSTEMS ABOVE THE CEILING PROVIDE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF AND FUTURE CHANGES IN MECHANICAL EQUIPMENT. CONDUIT AND PIPE TO BE RUN THROUGH TRUSSES WHEN APPLICABLE. COORDINATE SERVICE AND ACCESS POINTS ABOVE CEILING TO MINIMIZE REQUIRED ACCESS. JUNCTION BOXES SERVING AREAS WITH ACCESSIBLE CEILINGS.

VERIFY EXACT LOCATION OF ALL EQUIPMENT PROVIDED BY OTHER TRADES/DISCIPLINES, SUCH AS BUT NOT LIMITED TO HVAC, PLUMBING, KITCHEN ETC.) WITH RESPECTIVE SUBCONTRACTOR OR VENDOR PRIOR TO WORK. ELEC REQUIREMENTS FOR BREAKERS, CONDUCTORS AND DISCONNECT SWITCHES SHAL CONFIRMED PRIOR TO WORK AND MODIFIED AS REQUIRED. WHERE APPLICABLE, ALL FUSES FOR EQUIPMENT SHALL BE SIZED AS REQUIRED MANUFACTURER'S NAMEPLATE ON EQUIPMENT. FUSES SHALL BE CURRENT LIMITIME DELAY BUSSMAN FRN-R OR EQUAL BY GOULD SHAWMUT.

ALL CONDUIT SHALL BE RUN CONCEALED BELOW ROOF. PROVIDE WATERTIGHT F POCKETS AS REQUIRED. ONLY RACEWAYS IMMEDIATELY ADJACENT TO ROOF MO EQUIPMENT SHALL BE ALLOWED ON ROOF AND SHALL BE EITHER RIGID GALVAN STEEL CONDUIT, PVC COATED RIGID GALVANIZED STEEL CONDUIT, RIGID ALUMINU CONDUIT, OR LIQUIDTITE FLEXIBLE METALLIC CONDUIT (SEALTITE).

REFER TO MECHANICAL DRAWINGS AND SCHEDULES FOR ADDITIONAL ELECTRICAL REQUIREMENTS. PROVIDE ALL CONTROL CONDUIT AND WIRING AS REQUIRED FOF INTERLOCKING FANS, MOTORS, ETC. AS INDICATED ON THE MECHANICAL DRAWING AND SCHEDULES.

ALL DEVICES AND EQUIPMENT SERVING ROOF TOP EQUIPMENT SHALL BE MOUNT ON A PEDESTAL SEPARATE FROM UNIT. WHERE INDICATED OR WHERE ALLOWE LOCAL AUTHORITIES HAVING JURISDICTION, DEVICES AND EQUIPMENT MAY BE MC ON NON-REMOVABLE PANEL OF THE EQUIPMENT. THIS LOCATION SHALL BE COORDINATED WITH THE MECHANICAL OR PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING LOCATION DOES NOT HINDER OR IMPEDE EQUIPMENT WARRANTY, OPERATION OR RESISTANCE TO CORROSION/PROTECTION FROM THE ELEMENTS.

ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS WITH OTI TRADES AND GENERAL CONTRACTOR, AND SHALL BE MADE CONSISTENT WITH THE ROOFING MANUFACTURER METHODS/RECOMMENDATIONS FOR PENETRATIONS. PENETRATIONS OR MODIFICATIONS THAT COMPROMISE INTEGRITY OF THE ROOFING SYSTEM OR WARRANTY ARE PROHIBITED.

FOR TENANT SPACE FINISH OUT PROJECTS, ELECTRICAL CONTRACTOR SHALL SECTION LANDLORD APPROVAL FOR ALL BUILDING ROOF DECK PENETRATIONS. REQUESTS SHALL BE ON A SCALED ROOF PLAN SHOWING EXACT LOCATION & SIZE OF PENETRATION & INCLUDE DETAILS OF MOUNTING, FLASHING & SEALING. CONTRACTOR THE LANDLORD'S ROOFING CONTRACTOR TO PERFORM ALL WORK AT THIS CONTRACTOR'S SOLE EXPENSE. CONTRACTOR SHALL COORDINATE THE LOCATION ALL ROOFTOP EQUIPMENT, NEW ROOF PENETRATIONS, REMOVAL OF EXISTING RC EQUIPMENT & INSTALLATION OF ALL ROOFTOP EQUIPMENT WITH THE LANDLORD.

LIGHTING CONTROL NARRATIVE:

- IECC 2018 C405.2.1 OCCUPANT SENSOR CONTROLS SHALL BE UTILIZED THROUGHOUT FOR INTERIOR LIGHTING CONTROL, EXCEPT IN AREAS FOR WHICH EXCEPTIONS APPLY.
- •• THE OCCUPANT SENSOR SHALL AUTOMATICALLY TURN OFF LIGHTS WITHIN 20
- MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE.

 THE LIGHTS SHALL BE MANUAL ON OR CONTROLLED TO AUTOMATICALLY TURN ON TO NOT MORE THAN 50 PERCENT POWER. EXCEPTION: FULL AUTOMATIC—ON CONTROL SHALL BE PERMITTED TO CONTROL LIGHTING IN PUBLIC CORRIDORS, STAIRWAYS, RESTROOMS, PRIMARY BUILDING ENTRANCE AREAS AND LOBBIES, AND AREAS WHERE MANUAL—ON OPERATION WOULD ENDANGER THE SAFETY OR SECURITY OF THE ROOM OR BUILDING OCCUPANTS.
- •• THE SPACE OR ROOM SHALL INCORPORATE A MANUAL CONTROL TO ALLOW OCCUPANTS TO TURN OFF LIGHTS.
- IECC 2018 C405.2.3 DAYLIGHT RESPONSIVE CONTROLS ARE NOT REQUIRED DUE TO THE FACT THAT NO ZONE MEETS THE MINIMUM REQUIREMENT OF 150WATTS PER ZONE.
 IECC 2018 C405.2.3 DAYLIGHT RESPONSIVE CONTROLS ARE NOT REQUIRED IN SPACES IN HEALTH CARE FACILITIES WHERE PATIENT CARE IS DIRECTLY PROVIDED.
- IECC 2018 C405.2.3 DAYLIGHT RESPONSIVE CONTROLS ARE NOT REQUIRED ON THE FIRST FLOOR ABOVE GRADE IN GROUP A-2 AND GROUP M OCCUPANCIES.
 IECC 2018 C405.2.6 EXTERIOR LIGHTING CONTROLS WILL BE CONTROLLED VIA
- PROGRAMMABLE TIME CLOCK AND PHOTOCELL.

 LIGHTS SHALL AUTOMATICALLY TURN OFF WHEN DAYLIGHT IS PRESENT AND SATISFIES THE LIGHTING NEEDS.

 DECORATIVE LIGHTING (BUILDING FACADE AND LANDSCAPE LIGHTING) SHALL.
- AUTOMATICALLY SHUT OFF FROM NOT MORE THAN 1 HOUR AFTER BUSINESS CLOSING TO NOT EARLIER THAN 1 HOUR BEFORE BUSINESS OPENING.

 ALL OTHER LIGHTING SHALL BE CONTROLLED SO THAT THE TOTAL WATTAGE OF SUCH LIGHTING IS AUTOMATICALLY REDUCED BY NOT LESS THAN 30 PERCENT BY SWITCHING OR DIMMING THE LUMINARIES FROM NOT MORE THAN 1 HOUR AFTER BUSINESS CLOSING TO NOT EARLIER THAN 1 HOUR BEFORE BUSINESS OPENING.
- REDUCED LIGHTING POWER DENSITY (IECC C406.3) METHOD WILL BE UTILIZED TO SATISFY THE ADDITIONAL EFFICIENCY PACKAGE OPTION IN IECC C406.
 LIGHTING INSTALLED IN WALK—IN COOLERS, WALK—IN FREEZERS, REFRIGERATED WAREHOUSE COOLERS AND FREEZERS SHALL COMPLY WITH IECC C403.10.1 OR C403.10.2

GENERAL ENERGY NOTES:

THERMOSTATIC CONTROLS MUST HAVE A 5deg DEADBAND OR HAVE MANUAL CHANGEOVER BETWEEN HEATING AND COOLING.

PROVIDE AUTOMATIC CONTROLS: SETBACK TO 55degF (HEAT) AND 85degF (COOL); 7-DAY CLOCK, 2-HOUR OCCUPANT OVERRIDE, 10-HOUR BACKUP IN THE EVENT OF A POWER LOSS.

OUTDOOR AIR SUPPLY AND EXHAUST DUCTS SHALL BE PROVIDED WITH AUTOMATIC MEANS TO REDUCE AND SHUT OFF AIRFLOW WITH THE EXCEPTION FOR SYSTEM DESIGNED FOR CONTINUOUS OPERATION OR SYSTEM WITH AN FLOW RATE LESS THAN 3,000 CFM; SYSTEMS WITH READILY ACCESSIBLE MANUAL DAMPERS; OR RESTRICTED BY HEALTH AND LIFE SAFETY CODES.

ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS OR TAPES. TAPES AND MASTICS USED TO SEAL DUCTWORK SHALL BELISTED AND LABELED IN ACCORDANCE WITH UL181A OR UL181B. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEMS SHALL BE SEALED AND MECHANICALLY FASTENED. DUCT TAPE IS NOT PERMITTED AS A SEALANT OF ANY METAL DUCTS.

INSULATION SHALL BE PROVIDED FOR PIPING AS NOTED IN THE TABLE BELOW. PIPING INSULATION SHALL BE PROVIDED FOR RETURN CIRCULATION HOT WATER SYSTEM WITH 1" OR R-4 INSULATION. THE FIRST 8' OF PIPING IN NONCIRCULATING SYSTEMS SERVED BY EQUIPMENT W/O INTEGRAL HEAT TRAPS SHALL BE INSULATED WITH 5" OR R-4 INSULATION.

WATER HEATING EQUIPMENT NOT SUPPLIED WITH INTEGRAL HEAT TRAPS AND SERVING NONCIRCULATING SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING AS ASSOCIATED WITH THE EQUIPMENT.

AUTOMATIC CIRCULATING HOT WATER SYSTEMS OR HEAT TRACE SHALL HAVE TIME SWITCHES THAT ARE CAPABLE OF BEING SET TO TURN OFF THE SYSTEM.

MINIMUM PIPE	INSULATIO	N (inch)	MINIMUM DUCT INSULATION (R)
2.00	NORMINAL	PIPE DIA.	
FLUID	≤ 1.5"	> 1.5"	UNCONDITIONED SPACE ≥ 5
STEAM	1-1/2	3-1/2	OUTSIDE BLDG. ENVELOPE ≥ 8
HOT WATER	1	1-1/2	EXCEPTIONS:
CHILL WATER or REFRIGERANT	1	1	WHEN LOCATED WITHIN EQUIPMENT. WHEN DESIGN TEMP. DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15°F.

REVISIONS:

RICAL SPECIFICATION

MINIMAN Dr W, San Antonio, Tx.

7822

ENGINEERING
5656 S. Stoples, Suite 360
Corpus Chrietl, TX 78411
P. (361)852-2727 F. (361)862-2922
Texas Firm Registration No. F-005318

SAME OF TEN 4/27/2000 OHN A. RODRIGUEZ III 90273

William
Pope

& ASSOCIATES

ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD, # 257, SAN ANTONIO, TX. 78216

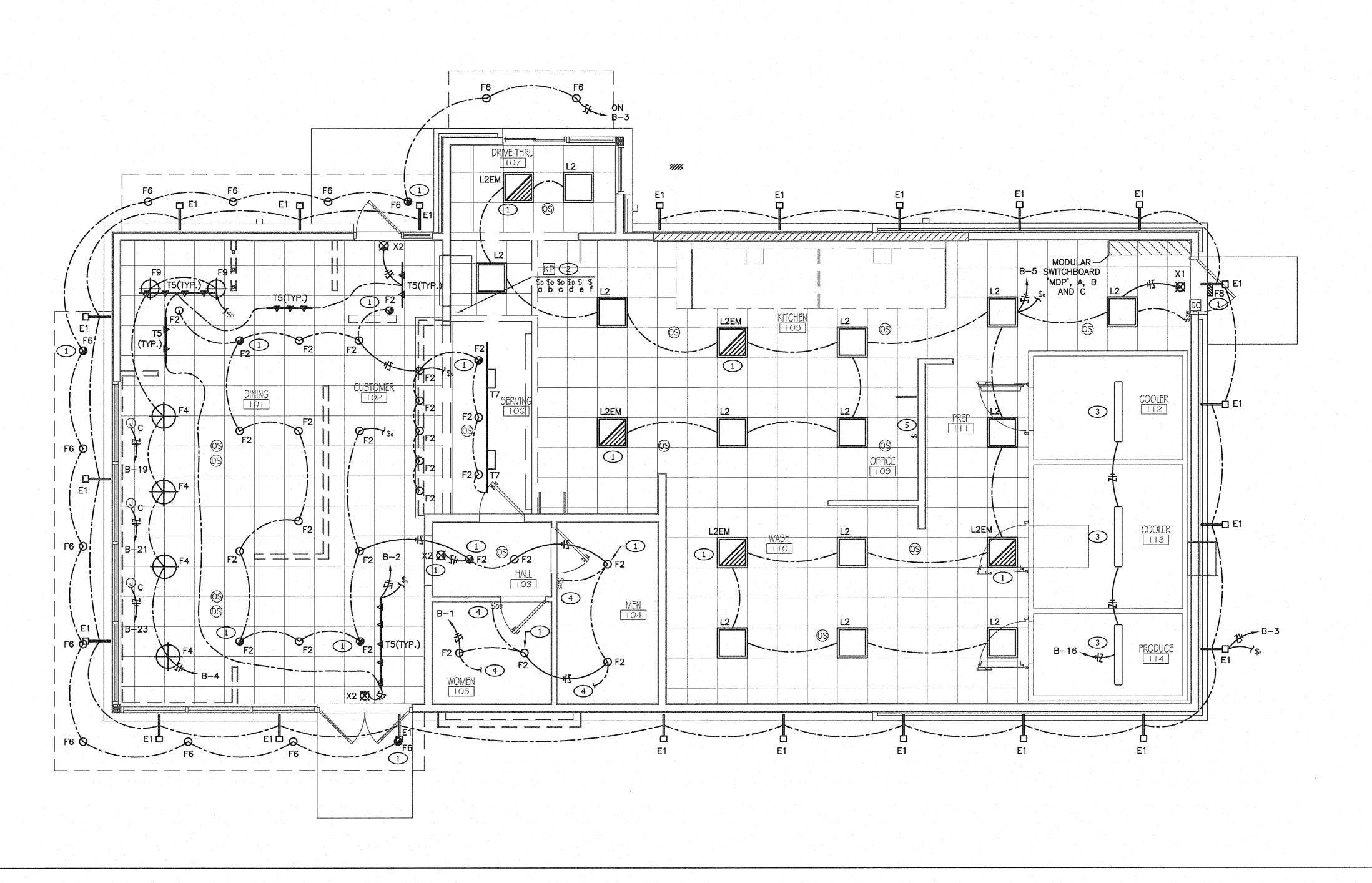
DATE: 04.27.22

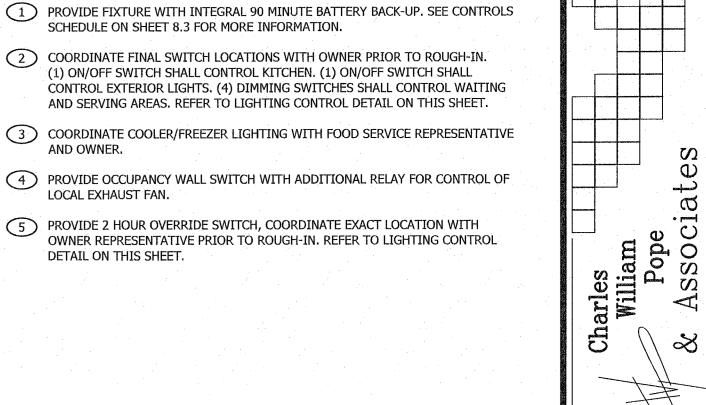
JOB NO: 37692

DRAWN BY: MRL

SHEET NUMBER:

7 27. 2022





LIGHTING PLAN 1/4"=1'-0"

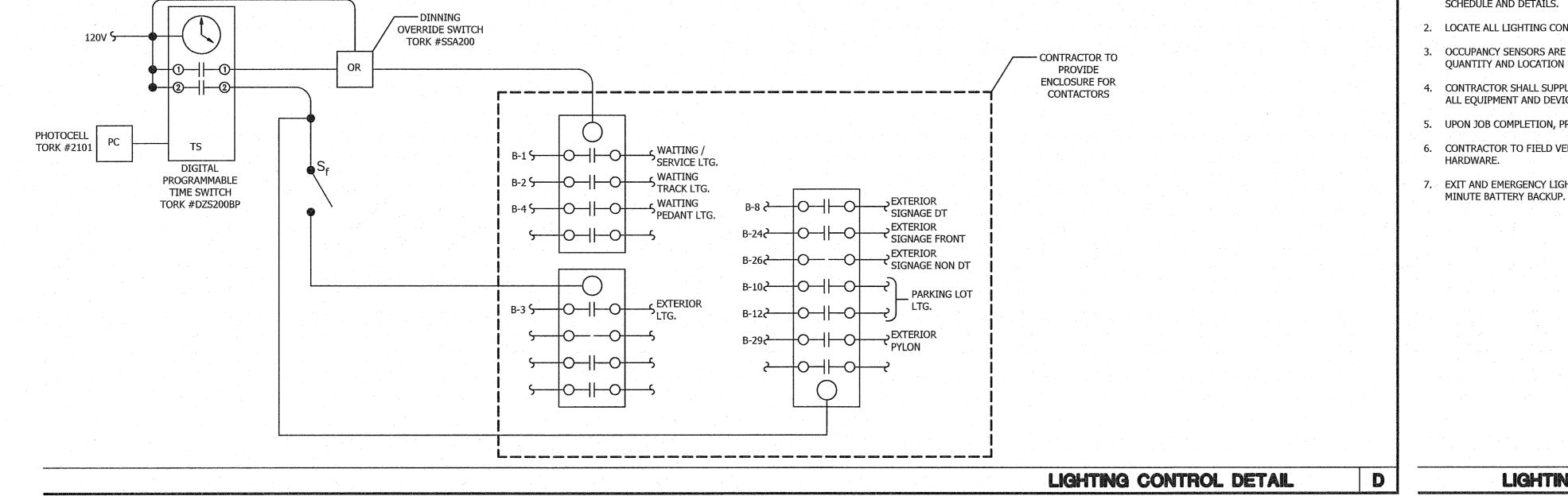
Pope SSOCIALES ECTURE PLANNING CONSULTINGO RD, # 257, SAN ANTONIO, TX. 78

REVISIONS:

LGHT NG FLOOR PLAN

MINITED/INTEC Rockgate 6807 Military Dr W, San Antonio, Tx. 78227

DATE: 04.27.22 JOB NO: DRAWN BY: SHEET NUMBER:



REFER TO 8.2 FOR LIGHTING FIXTURE SCHEDULE AND 8.3 FOR LIGHTING CONTROLS SCHEDULE AND DETAILS.

2. LOCATE ALL LIGHTING CONTROL POWER PACKS ABOVE ACCESSIBLE CEILING.

3. OCCUPANCY SENSORS ARE SHOWN FOR DIAGRAMMATICAL PURPOSES. FINAL QUANTITY AND LOCATION PER MANUFACTURER'S RECOMMENDATIONS.

CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS WITH THE FINAL LOCATION OF ALL EQUIPMENT AND DEVICES.

5. UPON JOB COMPLETION, PROVIDE ACCURATE, TYPED PANEL SCHEDULES.

6. CONTRACTOR TO FIELD VERIFY CEILING TYPE AND PROVIDE PROPER MOUNTING

7. EXIT AND EMERGENCY LIGHTING TO BE FED FROM LOCAL CIRCUIT AND HAVE 90

3 COORDINATE COOLER/FREEZER LIGHTING WITH FOOD SERVICE REPRESENTATIVE

4 PROVIDE OCCUPANCY WALL SWITCH WITH ADDITIONAL RELAY FOR CONTROL OF

5 PROVIDE 2 HOUR OVERRIDE SWITCH, COORDINATE EXACT LOCATION WITH OWNER REPRESENTATIVE PRIOR TO ROUGH-IN. REFER TO LIGHTING CONTROL DETAIL ON THIS SHEET.

LIGHTING GENERAL NOTES

LIGHTING KEYED NOTES

		LIGHTING FIXTURE SCHE	DULE				
IXTURE TYPE	MANUFACTURER/CATALOG NUMBER	LIGHT FIXTURE DESCRIPTION	LAMP	MOUNTING LOCATION	FIXTURE VOLTAGE	FIXTURE WATTAGE	REMARKS/INSTRUCTIONS NOTE: CONTRACTOR SHALL VERIFY ALL QUANTITIES OF LIGHT FIXTURES. ALL FIXTURE TYPES MAY NOT BE USED. REFER TO PLANS FOR PROJECT SPECIFIC
F2	ELITE TCP: B6IC-AT-W / LED14DR5630K95	6" RECESSED LED DOWNLIGHT WITH WHITE TRIM 3000K 90 CRI	LED	SALES FLOOR,BEHIND COUNTER & RESTROOMS	120	26W	
F4	SEASCAPE PENDANT - CAPITOL LIGHT SPEC	SUSPENDED 14" DIAMETER LED PENDANT WITH TAPERED ACRYLIC INNER AND OUTER DIFFUSER CABLE SUSPENSION MATTE WHITE EXTERIOR FINISH AND CUSTOM RAL#3001 RED INTERIOR FINISH 3000K WITH BLACK MOUNTING CORD	LED	PENDANT	120	21W	
F6	INDY: L6-28LM-40K-MVOLT-G4-80CRI-ZT-HM-CS-WET	6" RECESSED LED DOWNLIGHT	LED	CANOPY	120	29W	
F8	LITHONIA: WPX1 LED P1 40K MVOLT DWHXD	EXTERIOR RATED LED WALL PACK 4000K DARK WHITE FINISH	LED	EMPLOYEE ENTRANCE WALL PACK	120	11W	
F9	KICHLER: 82279	10" DIAMETER CLEAR GLASS PENDANT MEDIUM BASE SOCKET 72" BLACK CORD	TCP: 21037 TCP FST19D4022KG	OPEN AREAS/ DINING AREAS	120V	4W	
E1	HUBBELL: LIGHT: RFL2-44L-25-3K7-M-UNV-K-BL BRACKET: 93125951	SINGLE ARRAY LED FLOOD LIGHT 3000K BLACK FINISH WITH CUSTOM 36" ARM BRACKET BLACK FINISH	LED	EXTERIOR LIGHTS	120	25W	
T5	LF ILLUMINATION: TZA01-A-J-06C-9230-M-D1-1-WW	VERTICAL INTEGRATED LED TRACK LIGHT WHITE FINISH 3000K 38 DEGREE BEAM	LED	FRONT OF COUNTER/ DINING ROOM TRACK HEAD	120	6 W	
T7	AMERLUX: MURH-31-LED-WT-TJ1-120-WW-30	HORIZONTAL INTEGRATED LED WALL WASHER TRACK LIGHT 3000K HI CRI WHITE FINISH	LED	MENU BOARD & DINING ROOM LIGHT	120	31 W	
RACK	CONTECH: LT8P LT4P LT6P LT2P	SINGLE CIRCUIT LINE VOLTAGE TRACK WHITE FINISH	N/A	SALES FLOOR & BEHIND SERVICE COUNTER			
L1	CREE: C-TR-C-FP24-50L-35K-WH	2X4 BACK LIT LED PANEL 3500K	LED	KITCHEN LIGHTS	120	41 W	
L1 EM	CREE: C-TR-C-FP24-50L-35K-WH-EB	2X4 BACK LIT LED PANEL 3500K WITH EM BATTERY	LED	KITCHEN LIGHTS	120	41 W	
L2	CREE: C-TR-C-FP22-37L-35K-WH	2X2 BACK LIT LED PANEL 3500K	LED	KITCHEN LIGHTS	120	31 W	
L2 EM	CREE: C-TR-C-FP22-37L-35K-WH-EB	2X2 BACK LIT LED PANEL 3500K WITH EM BATTERY	LED	KITCHEN LIGHTS	120	31 W	
L3	CREE: C-TR-C-FP14-37L-35K-WH ABB: 90139	1X4 BACK LIT LED PANEL 3500K WITH FLANGE KIT	LED	KITCHEN LIGHTS/ RESTROOM RECESSED TROFFER	120	29 W	
L3 EM	CREE: C-TR-C-FP14-37L-35K-WH-EB ABB: 90139	1X4 BACK LIT LED PANEL 3500K WITH EM BATTERY AND FLANGE KIT	LED	KITCHEN LIGHTS/ RESTROOM RECESSED TROFFER	120	29 W	
X1	ELITE: ELX-703-R-W	UNIVERSAL MOUNT EXIT SIGN WITH 2 HEAD EM LIGHT WHITE FINISH RED LETTERS	LED	EXIT SIGN WITH EM LIGHT	120	4 W	
X2	ELITE: ELX-603-R-W	UNIVERSAL MOUNT EXIT SIGN WHITE FINISH RED LETTERS	LED	EXIT SIGN	120	2 W	
/ERTER	LIGHT ALARMS: LMIU-125 (125 WATTS) LIGHT ALARMS: LMIU-250 (250 WATTS) LIGHT ALARMS: LMIU-400 (400 WATTS) LIGHT ALARMS: LMIU-720 (720 WATTS)	INVERTER		FRONT OF COUNTER EM LIGHTS			
S1	LITHONIA: RSX2-LED-P1-30K-R4-EGFV	SITE POLE LIGHT	LED	EXTERIOR SITE	208	73 W	TYPE III, VERY SHORT, W/ EXTERNAL GLARE FULL VISOR, BUG RATING: B2 - U0 - G2
S2	LITHONIA: RSX2-LED-P1-30K-R3	SITE POLE LIGHT	LED	EXTERIOR SITE	208	145 W	TYPE III, SHORT, BUG RATING: B2 - U0 - G2

NOTES:
I. COLOR OF SWITCHBOX OCCUPANCY SENSORS SHALL MATCH COLOR OF OTHER WIRING DEVICES. REFER TO ARCHITECTURAL DRAWINGS FOR COLOR REQUIREMENTS.

2. FIXTURE SYMBOL ON FLOOR PLANS FOR CEILING OCCUPANCY/VACANCY SENSOR(S) IS INTENDED TO BE GENERIC. TYPE OF CEILING OCCUPANCY SENSOR (DUAL TECHNOLOGY PIR AND ULTRASONIC) SHALL BE SELECTED PER RECOMMENDATIONS OF OCCUPANCY SENSOR EQUIPMENT SUPPLIER BASED ON TYPE OF SPACE, OBSTRUCTIONS IN SPACE, SENSOR COVERAGES/APPLICATIONS. ETC.

3. GANG ALL WIRELESS SWITCHES LOCATED NEXT TO EACH OTHER WITH A SINGLE GANGED FACE PLATE.

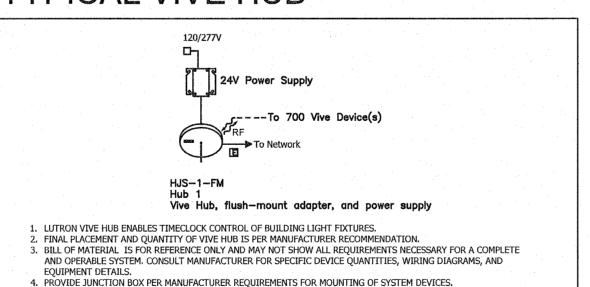
WIRELESS AND WIRED SOLUTIONS MAY BE SUBMITTED FOR CONTROL SYSTEM ALTERNATES.

GENERAL NOTES:

- BASIS OF DESIGN: LUTRON ELECTRONIC'S VIVE WIRELESS CONTROL SYSTEM.
 CONTROL DETAILS ARE FOR TYPICAL ROOM TYPES. DETAILS ARE FOR REFERENCE ONLY. FINAL DEVICE QUANTITY, MODEL
- NUMBERS, AND LAYOUT PER MANUFACTURER RECOMMENDATION.

 3. VERIFY COMPLIANCE WITH ALL LOCAL CODES FOR FINAL DESIGN SPECIFICATION.
- 4. DEVICES ALREADY ACCOUNTED FOR IN CONTROL DETAILS ARE SHOWN IN HALF—TONE.
 5. INCLUDE IN BASE BID: STARTUP SUPPORT SERVICES, ONSITE SYSTEM PROGRAMMING LSC—OS—PROGX—SP 4 HOUR.
 6. INCLUDE IN BASE BID: LSC—SENS—LT SENSOR LAYOUT AND TUNING SERVICE.

TYPICAL VIVE HUB



5. PROVIDE NETWORK CONNECTION TO HUB AND DAISY-CHAIN ALL HUBS IN PROJECT WITH ETHERNET CABLES.

Occupancy sensing switch

Blue1

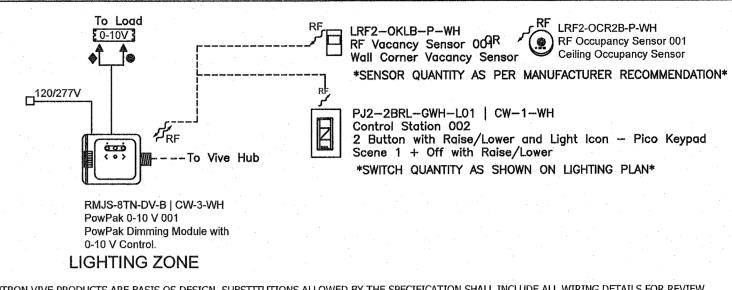
Black
Hot/Live

120-277 V~
50 / 60 Hz Ground

Neutral

WALL SWITCH OCCUPANCY SENSOR WIRING SCHEMATIC NO SCALE

DINING ROOM



OTE:
LUTRON VIVE PRODUCTS ARE BASIS OS DESIGN. SUBSTITUTIONS ALLOWED BY THE SPECIFICATION SHALL INCLUDE ALL WIRING DETAILS FOR REVIEW.
SEQUENCE OF OPERATIONS:

-AUTOMATIC-ON: ALL LOADS/AUTOMATIC-OFF: ALL LOADS
-ALL LIGHTING LOADS TURNED ON AUTOMATICALLY BY TIMECLOCK 30 MINUTES BEFORE START OF BUSINESS.
-ALL LIGHTING LOADS AUTOMATICALLY TURN OFF BY TIMECLOCK 2 HOURS AFTER CLOSE OF BUSINESS.

-ALL LIGHTING LOADS AUTOMATICALLY TURN OFF BY TIMECLOCK 2 HOURS AFTER CLOSE OF BUSINESS.

-BETWEEN ONE HOUR AFTER CLOSE OF BUSINESS AND ONE HOUR BEFORE START OF BUSINESS, ALL LIGHTS SHALL BE CONTROLLED BY OCCUPANCY SENSOR.

ALL LIGHTS SHALL AUTOMATICALLY TURN ON TO 100% WHEN AN OCCUPANT ENTER THE ROOM, AND AUTOMATICALLY TURN OFF ONCE THE SPACE IS

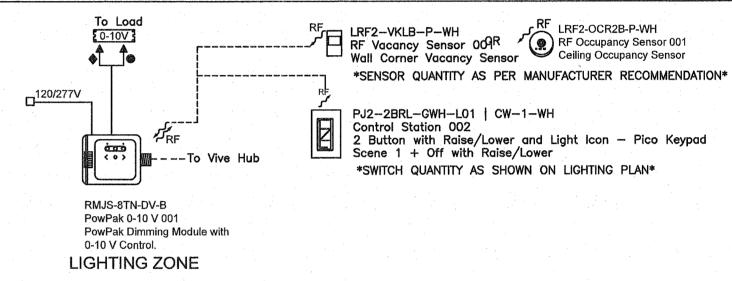
VACATED AND THE SENSOR'S TIME DELAY OF 15 MINUTES EXPIRES.

-DIMMING CONTROL SWITCH, PROVIDES MANUAL CONTROL OF ALL LOADS. MANUAL CONTROL IS OVERRIDDEN BY AUTOMATIC SHUTOFF.

3. BILL OF MATERIAL IS FOR REFERENCE ONLY AND MAY NOT SHOW ALL REQUIREMENTS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. CONSULT MANUFACTURER FOR SPECIFIC DEVICE QUANTITIES, WIRING DIAGRAMS, AND EQUIPMENT DETAILS.

4. PROVIDE JUNCTION BOX PER MANUFACTURER REQUIREMENTS FOR MOUNTING OF SYSTEM DEVICES.

KITCHEN



NOTE:

1. LUTRON VIVE PRODUCTS ARE BASIS OS DESIGN. SUBSTITUTIONS ALLOWED BY THE SPECIFICATION SHALL INCLUDE ALL WIRING DETAILS FOR REVIEW.

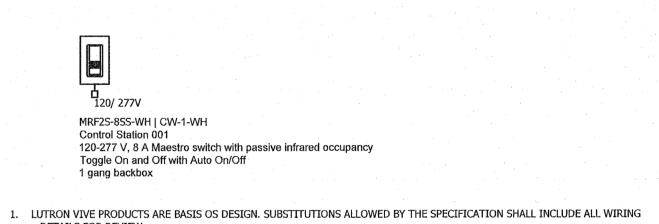
2. SEQUENCE OF OPERATIONS:

-AUTOMATIC-ON: ALL LOADS/AUTOMATIC-OFF: ALL LOADS
-ALL LIGHTING LOADS TURNED ON AUTOMATICALLY BY TIMECLOCK 30 MINUTES BEFORE START OF BUSINESS.
-ALL LIGHTING LOADS AUTOMATICALLY TURN OFF BY TIMECLOCK 2 HOURS AFTER CLOSE OF BUSINESS.
-BETWEEN ONE HOUR AFTER CLOSE OF BUSINESS AND ONE HOUR BEFORE START OF BUSINESS, ALL LIGHTS SHALL BE CONTROLLED BY OCCUPANCY SENSOR.
ALL LIGHTS SHALL AUTOMATICALLY TURN ON TO 100% WHEN AN OCCUPANT ENTER THE ROOM, AND AUTOMATICALLY TURN OFF ONCE THE SPACE IS
VACATED AND THE SENSOR'S TIME DELAY OF 15 MINUTES EXPIRES.

-DIMMING CONTROL SWITCH, PROVIDES MANUAL CONTROL OF ALL LOADS. MANUAL CONTROL IS OVERRIDDEN BY AUTOMATIC SHUTOFF.

3. BILL OF MATERIAL IS FOR REFERENCE ONLY AND MAY NOT SHOW ALL REQUIREMENTS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. CONSMANUFACTURER FOR SPECIFIC DEVICE QUANTITIES, WIRING DIAGRAMS, AND EQUIPMENT DETAILS.

RESTROOMS



LUTRON VIVE PRODUCTS ARE BASIS OS DESIGN. SUBSTITUTIONS ALLOWED BY THE SPECIFICATION SHALL INCLUDE ALL WIRING DETAILS FOR REVIEW.
 SEQUENCE OF OPERATIONS:

 AUTOMATIC-ON: ALL LOADS/AUTOMATIC-OFF: ALL LOADS

-ALL LIGHTING LOADS AUTOMATICALLY TURN ON TO 100% WHEN THE OCCUPANT ENTER THE ROOM.
-ALL LIGHTING LOADS AUTOMATICALLY TURN OFF ONCE THE SPACE IS VACATED AND THE SENSOR'S TIME DELAY OF 15 MINUTES EXPIRES.
-ON/OFF CONTROL SWITCH, PROVIDES MANUAL CONTROL OF ALL LOADS. MANUAL CONTROL IS OVERRIDDEN BY AUTOMATIC SHUTOFF.

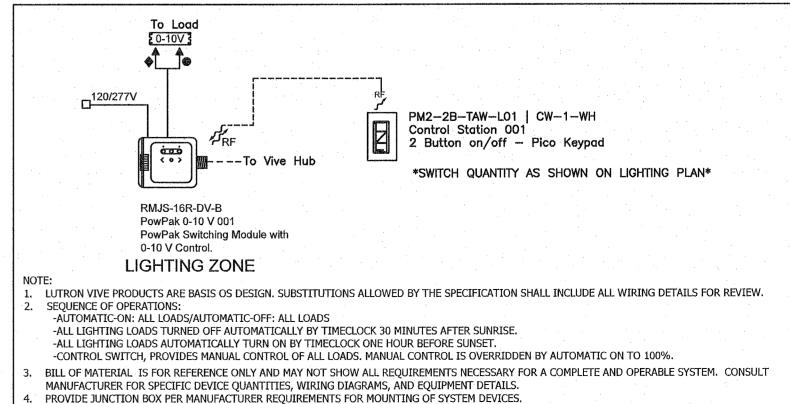
ROOM CONTROL STATION GENERAL LIGHTING LOADS ASSIGNED TO 1 BUTTON TOGGLE ON/OFF CONTROL STATION.

PROVIDE JUNCTION BOX PER MANUFACTURER REQUIREMENTS FOR MOUNTING OF SYSTEM DEVICES.

3. BILL OF MATERIAL IS FOR REFERENCE ONLY AND MAY NOT SHOW ALL REQUIREMENTS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. CONSULT MANUFACTURER FOR SPECIFIC DEVICE QUANTITIES, WIRING DIAGRAMS, AND EQUIPMENT DETAILS.

4. PROVIDE JUNCTION BOX PER MANUFACTURER REQUIREMENTS FOR MOUNTING OF SYSTEM DEVICES.

EXTERIOR LIGHTING



Charles
William
Pope
& ASSOCIATES
ARCHITECTURE PLANNING CON
7400 BLANCO RD, # 257, SAN ANTONIO

REVISIONS:

2

SCHEDULE

5

ONTR

O

LIGHTING

Rockgate

Tx. 78227

San Antonio,

6807 Military Dr W, Sar

DATE: 04.27.22

JOB NO: 37692

DRAWN BY: MRL

SHEET NUMBER:

8.3

B. ALL CONDUIT DROPS ARE INSIDE WALLS UNLESS NOTED OTHERWISE.

C. ALL JUNCTION BOX CIRCUITS, CONDUITS, FIXTURES, ETC. SHALL BE AS INDICATED ON THE ELECTRICAL DRAWINGS AND SPECIFICATIONS.

D. CONTRACTOR TO VERIFY UNDERGROUND CONDUIT LOCATIONS PRIOR TO POURING SLAB.

E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE FINAL LOCATION OF ELECTRICAL ROUGH-INS WITH INFO PROVIDED ON THE ARCHITECTURAL DRAWINGS, STRUCTURAL DRAWINGS, AND THE EQUIPMENT ACTUALLY SUPPLIED, AND TO CONFIRM THE CORRECTNESS OF ANY DIMENSIONS HEREIN.

F. LOCATIONS OF ALL OUTLETS SHALL BE RELOCATED TO NEAREST STUD. DO NOT CUT INTO STUDS.

G. FOR EXACT LOCATIONS OF KITCHEN & MECHANICAL EQUIPMENT AND POINTS OF CONNECTION, REFER TO KITCHEN & MECHANICAL EQUIPMENT DRAWINGS AND MANUFACTURER'S SHOP

H. ALL CIRCUIT FEEDERS AND DISCONNECTS SHALL BE SIZED PER NEC.

CONTRACTOR SHALL VERIFY CIRCUIT BREAKER, DISCONNECT SWITCH, STARTER, AND FUSE SIZES WITH SELECTED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS PRIOR TO PLACING ORDER AND PROVIDE ALL APPURTENANCES AS REQUIRED.

J. ELECTRICAL EQUIPMENT ENCLOSURES RATING SHALL BE NEMA 1 FOR INTERIOR AND NEMA 3R FOR EXTERIOR. IN COASTAL REGIONS, THE STANDARD RATING FOR EXTERIOR ENCLOSURES SHALL BE NEMA-4X.

K. 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 KITCHEN AREA SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL

L. ALL SECURITY SYSTEM EQUIPMENT AND POINT-OF-SALE EQUIPMENT, INCLUDING DIGITAL MENU BOARDS, SHALL BE PLACED ON ISOLATED GROUND OUTLETS.

M. DO NOT MEASURE/LOCATE DEVICES ON DRAWINGS. USE DIMENSIONS PROVIDED ON ARCHITECTURAL PLANS.

N. CONDUIT MAY RUN UNDER SLAB AT GENERAL CONTRACTOR'S DISCRETION.

O. PROVIDE ESCUTCHEON PLATES AND SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, CEILINGS, AND FLOORS. DO NOT USE CAULK OR EXPANDING FOAM FOR

P. ALL DEVICE MOUNTING HEIGHTS NOTED ARE APPROXIMATE. FINAL MOUNTING HEIGHTS MUST BE VERIFIED WITH ASSOCIATED EQUIPMENT PRIOR TO ROUGH-IN. 1 INSTALL SURFACE MOUNTED IN CONDUIT RUNNING ON KITCHEN SIDE OF CABINETRY REAR WALL.

2 PACK LINE EQUIPMENT SHALL BE POWERED VIA CEILING MOUNTED RECEPTACLES AS INDICATED ON PLAN. COORDINATE WITH MANUFACTURER'S SHOP DRAWINGS FOR EXACT DEVICE LOCATIONS PRIOR TO ANY ROUGH-IN WORK. COORDINATE WITH PACK LINE EQUIPMENT PRIOR TO ROUGH-IN.

3 JUNCTION BOX FOR ANSUL SYSTEM. LOCATE ABOVE CEILING.

4 REFER TO ROOF PLAN FOR LOCATION OF CONDENSING UNIT.

5 CEILING MOUNTED TWIST-LOCK RECEPTACLE. COORDINATE WITH PACK LINE EQUIPMENT PRIOR

6 ALIGN CEILING MOUNTED RECEPTACLES ALONG CENTERLINE OF TABLE.

7 CEILING RECEPTACLE FOR PACK LINE MONITORS.

8 JUNCTION BOX FOR 120V CONNECTION TO HAND DRYER. COORDINATE FINAL MOUNTING HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

9 EXTERIOR SIGNAGE SHALL BE TIED INTO LIGHTING CONTROLS SYSTEM. REFER TO LIGHTING PLAN FOR ADDITIONAL INFORMATION.

10) PROVIDE UNDERGROUND CONDUIT FOR POWER AND DATA FOR MENU BOARD LOCATED ON THE EXTERIOR SITE. REFER TO DETAIL 14/8.10 FOR FINAL REQUIREMENTS. FINAL MENU BOARD LOCATION WILL BE SITE SPECIFIC.

11 EXHAUST FAN SHALL BE TIED INTO LOCAL LIGHTING CIRCUIT. EXHAUST FAN SHALL BE CONTROLLED VIA LOCAL WALL SWITCH OCCUPANCY SENSOR. REFER TO LIGHTING PLAN FOR ADDITIONAL INFORMATION.

12 POWER FOR MENUBOARD. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH MENUBOARD INSTALLER.

13) RECEPTACLE FOR PEPSI SIGN. COORDINATE FINAL MOUNTING HEIGHT AND LOCATION WITH

PROVIDE POWER AND MAKE CONNECTION TO RECIRCULATING PUMP PER MANUFACTURES RECOMMENDATION.

14) POWER FOR AUTOMATIC SLIDING DOOR. COORDINATE REQUIREMENTS WITH MANUFACTURER.

POWER PLAN 1/4"=1'-0" A

17) PROVIDE JUNCTION BOX FOR EXTERIOR CAMERA. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER.

VENDOR FOR INSTALLATION.

16 PROVIDE REMOTE CO2 SAFETY ALARM SYSTEM, MODEL #Y78-CO2MNTR. COORDINATE WITH CO2

B

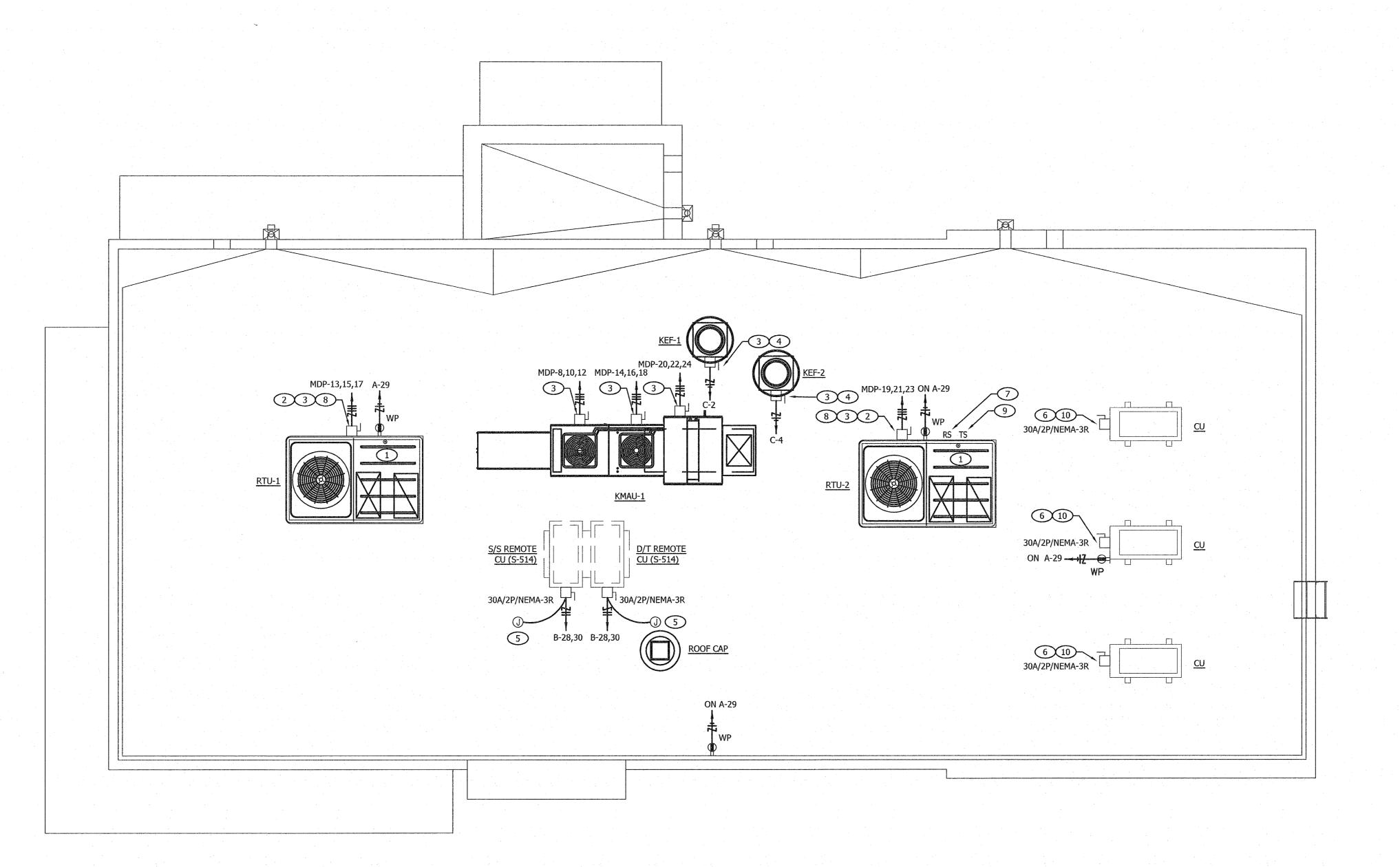
POWER GENERAL NOTES

POWER KEYED NOTES

REVISIONS:

6807 Military Dr W, San Antonio, Tx. 78227

DATE: 04.27.22 SHEET NUMBER:



POWER ROOF PLAN 1/4"=1'-0" A

B. ALL CUTS IN ROOFING MEMBRANE SHALL BE MINIMAL AND IN ACCORDANCE WITH ROOFING MANUFACTURER'S AND INSTALLER'S REQUIREMENTS. C. REFER TO MECHANICAL SCHEDULE FOR FINAL ELECTRICAL CONNECTION REQUIREMENTS. D. ALL EXPOSED ELECTRICAL CONDUITS SHALL PENETRATE ROOF MEMBRANE AT PIPE HOODS, UNLESS NOTED OTHERWISE. E. ALL CONDUITS FROM EXHAUST FANS SHALL BE ROUTED INSIDE OF CURB. F. ALL CONDUITS TO AND FROM RTU SHALL BE ROUTED INSIDE OF RTU CURB. COORDINATE WITH RTU MANUFACTURER RECOMMENDATIONS. G. ALL WIRING AND CONDUITS SHALL BE CONCEALED. NO CONDUITS PERMITTED TO RUN EXPOSED ACROSS ROOF DECK. ROUTE ALL CONDUITS THROUGH EQUIPMENT ROOF CURBS OR ARCHITECT SPECIFIED ROOF PENETRATIONS. H. ALL OUTLETS AND JUNCTION BOXES BEHIND SIGNAGE SHALL BE RECESSED OR FLUSH WITH BUILDING FINISH SURFACE. . SOME BOXES ARE LOCATED WITHIN CONCRETE POURS. INSTALL BOXES AND CONDUIT IN SUCH LOCATIONS PRIOR TO POURING OF CONCRETE. COORDINATE

1 PROVIDE CONNECTION FROM RETURN AIR DUCT SMOKE DETECTORS TO MECHANICAL CONTROL CIRCUIT PER DETAIL 2/8.10, AND FIRE ALARM SYSTEM (IF PRESENT).

2 SPECIFIED UNIT SHALL BE SUPPLIED WITH THROUGH THE BASE ELECTRICAL CONNECTIONS AND FACTORY INSTALLED HACR CIRCUIT BREAKER WITH WEATHER TIGHT ENCLOSURE AND ACCESS THROUGH SWINGING DOOR.

3 POWER AND CONTROL ENTRY FROM BOTTOM OF UNIT.

4 30A/2P/3R DISCONNECT SWITCH.

5 PROVIDE 30A/2P/3R DISCONNECT AND 3/4"C WITH REQUIRED CONDUCTORS TO JUNCTION BOX IN CEILING ABOVE ICE MACHINE. MAKE FINAL CONNECTION TO ICE MACHINE AND ASSOCIATED CONDENSING UNIT. REFER TO POWER PLAN 8.4 FOR CIRCUITING CONTINUATION TO ICE MAKER.

6 REFER TO POWER PLAN 8.4 FOR CIRCUITING CONTINUATION TO

COOLER/FREEZER WALK-IN BOX. 7 RAIN SENSOR.

8 UNIT SHALL BE PROVIDED WITH BUILT-IN DISCONNECT, SINGLE POINT WIRING AND CONVENIENCE OUTLET. PROVIDE SECONDARY 60A/3P/NF/N1 DISCONNECT SWITCH FOR RTU IN OFFICE. RE: SHT 8.7 FOR ADDITIONAL REQUIREMENTS.

9 OUTSIDE AIR TEMPERATURE SENSOR BY ENERGY MANAGEMENT SYSTEM (EMS) SUPPLIER; MOUNT ON NORTH SIDE OF RTU-2. CONNECT TO RTU EQUIPMENT CONTROL PACK.

10 VERIFY CIRCUIT BREAKER TYPE, STARTER, DISCONNECT SWITCH, AND FUSE SIZE (IF REQUIRED) WITH SELECTED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS PRIOR TO PLACING ORDER. PROVIDE ALL APPURTENANCES FOR A COMPLETE AND FUNCTIONAL SYSTEM.

ASSOCIATES
HITECTURE PLANNING CONSULT
SLANCO RD, # 257, SAN ANTONIO, TX. 73

REVISIONS:

Rockgate

WWW San Antonio, Tx. 78227

DATE: 04.27.22 DRAWN BY: SHEET NUMBER:

NOT USED

NOT USED

POWER ROOF PLAN NOTES

J. PROVIDE UNISTRUT MOUNTING SYSTEM FOR DISCONNECT SWITCHES AND

WITH OTHER TRADES.

RECEPTACLES.

A. NO CONDUIT SHALL BE FASTENED DIRECTLY TO OR THROUGH ROOFING

KEY NOTES

600 AMP, M.C.B, 120/208 V, 3ø, 4W, S/N, SURFACE, NEMA 1, 22 KAIC

#12 AWG

#12 AWG

#12 AWG

#12 AWG

#12 AWG

#12 AWG

1700

400 POS TERM (U-070,100) 30

500D/T TEA BREW (S-404/407) 32

400 MONITOR (U-198) 34

1700 HOLD CABNET (S-053) 36

1000 ICE MAKER (S-514) 40

PHASE C = 11360 VA

PANEL ' MDP '

HEATED CAB (S-017) 2676

HEATED CAB (S-017) 2676

FREEZER (R-030) 1400

500

1400

DT TIMER

FREEZER (R-002)

NOT USED

D

CONNECTED LOAD = 36336 VA

#12 AWG

#10 AWG

#10 AWG

#12 AWG

#12 AWG

PANE	EL 'B '			225 AMP	, M.L.O,	120/208 V, 3ø, 4W,	S/N,	SURFACE, NEMA 1, 22	KAIC
CKT#	LOAD SERVED	LOAD	CONDUIT & WIRE SIZE	BKR SIZE ABC	BKR SIZE	CONDUIT & WIRE SIZE	LOAD	LOAD SERVED	CKT
1	INT DINING LIGHTS	500	#12 AWG	20/1 A	20/1	#12 AWG	500	INT DINNING LIGHTS	2
3	EXT BUILDING LIGHTS	-500	#12 AWG	20/1 B	20/1	#12 AWG	500	INT DINNING LIGHTS	4
5	INT KITCHEN LIGHTS	500	#12 AWG	20/1 C	20/1	#12 AWG	1500	HAND DRYER	6
7	ENERGY MGMT SYSTEM	200	#12 AWG	20/1 A	20/1	#12 AWG	1000	EXT SIGNAGE DT	8
9	SPARE	_		20/1 B	20/2	#12 AWG	1000	EXT SITE LIGHTING	10
11	SPARE	-		20/1 C		#12 AWG	1000	21	12
13	EXTERIOR RECPS	400	#12 AWG	20/1 A	20/1	#12 AWG	200	VIVE HUB	14
15	D/T MENU BOARD	1000	#12 AWG	20/1 B	20/1	#12 AWG	400	COOLER/FREEZER LTG	16
17	D/T MENU BOARD	1000	#12 AWG	20/1 C	20/1	#12 AWG	1500	HAND DRYER	18
19	SHOW WINDOW	999	#12 AWG	20/1 A	40/2	#8 AWG	3300	HW DISPENSER (P-721)	20
21	SHOW WINDOW	999	#12 AWG	20/1 B	·	#8 AWG	3300	29	22
23	SHOW WINDOW	999	#12 AWG	20/1 C	20/1	#12 AWG	1000	EXT SIGNAGE FRNT	24
25	WATER HEATER	200	#12 AWG	20/1 A	20/1	#12 AWG	1000	EXT SIGNAGE	26
27	RECIRC. PUMP	200	#12 AWG	20/1 B	30/2	#10 AWG	1884	S-514 ICE MACH CU	28
29	EXT PYLON	999	#12 AWG	20/1 C		#10 AWG	1884	39	30
31	FRYER (C-018)	1800	#12 AWG	20/1 A	40/2	#8 AWG	3300	HW DISPENSER (P-721)	32
33	FRYER (C-018)	1800	#12 AWG	20/1 B		#8 AWG	3300	"	34
35	AC-1/AC-2	816	#12 AWG	20/1 C	20/1	#12 AWG	400	OIL RECOVERY SYS	36
37	SPARE	_	-	20/1 A	20/1	#12 AWG	500	CO2 SYSTEM	38
39	SPARE		****	20/1 B	30/2	#10 AWG	1884	S-514 ICE MACH CU	40
41	SPARE			20/1 C	,	#10 AWG	1884	"	42

E-241(1)

———— C-025

C-24 KITCHEN HOOD LIGHTS

+ SPARE

- NEUTRAL

PROVIDE 16 POLE 30A RATED NORMALLY OPEN, ELECTRICALLY HELD CONTACTOR

30/1 A 20/1

20/1 B 20/1

30/1 C 20/2

20/1 B 20/1

20/1 | C 20/1

PHASE A = 14496 VA PHASE B = 10480 VA

20/1 A

CKT #	LOAD SERVED	LOAD	CONDUIT & WIRE SIZE	BKR SIZE	ARC	BKR SIZE	CONDUIT & WIRE SIZE	LOAD	LOAD SERVED	OKT
1	WALK-IN COOLER	900	#12 AWG	DIN SIZE	A	20/1	#12 AWG	180	LOAD SERVED EF-1	CKT 2
3	"	900	#12 AWG	20/3	В	20/1	#12 AWG	180	EF-2	4
5	"	900	#12 AWG	20/0	C		#12 AWG	900	OFFICE RECPS	6
7	WALK-IN COOLER	900	#12 AWG		A	20/1	#12 AWG	400	KITCHEN MONITORS	8
9	"	900	#12 AWG	20/3	В	20/1	#12 AWG	200	RECP (F-050)	10
11	n	900	#12 AWG	20/0	C	· · · · · · · · · · · · · · · · · · ·	#12 AWG	500	SODA BOOSTER PUMP	12
13	POWER SOAK (N-014)	2900	#10 AWG		A	20/1	#12 AWG	732	FRYER (C-025)	14
15	"	2900	#10 AWG	30/3	В	20/1	#12 AWG	732	FRYER (C-025)	16
17		2900	#10 AWG		C		#12 AWG	1000	HOOD SUPPR (E-241)	18
19	CONV OVEN (C-130)	2640	#10 AWG		A	20/1	#12 AWG	1000	HOOD SUPPR (E-241)	20
21	"	2640	#10 AWG	30/3	В	20/1	#12 AWG	200	HOOD LIGHTS (E-241)	22
23	2)	2640	#10 AWG	00,0	C		#12 AWG	200	HOOD LIGHTS (E-241)	24
25 F	RESS FRYER(C-001/184		#6 AWG		A	20/2	#12 AWG	1700	MICROWAVE OVEN(C-13)	26
27	77	5700	#6 AWG	60/3	В		#12 AWG	1700	"	28
29	27	5700	#6 AWG		C	20/2	#12 AWG	1700	MICROWAVE OVEN(C-13)	30
31 F	RESS FRYER(C-001/184) 5700	#6 AWG		A	,_	#12 AWG	1700	"	32
33	22	5700	#6 AWG	60/3	В	20/1	#12 AWG	200	AUTO SLIDING DOOR	34
35		5700	#6 AWG		С	20/1		_	SPARE	36
37	WALK-IN COOLER	900	#12 AWG		Α	20/1		-	SPARE	38
39	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	900	#12 AWG	20/3	В	20/1		_	SPARE	40
41	***	900	#12 AWG		С	20/1		_	SPARE	42
43	SPARE	-	_	20/1	Α	20/1	-	Maybe M	SPARE	44
45	SPARE			20/1	В	20/1	-		SPARE	46
47	SPARE			20/1	С			-	SPARE	48
49	SPARE	· ·	- '	20/1	Α	20/1	-		SPARE	50
51	SPARE			20/1	В	20/1	-		SPARE	52
53	SPARE	·	-	20/1	С	20/1		-	SPARE	54

DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
LIGHTING	12496	125%	15620
RECEPTACLES	12360	NEC 220-44	11180
KITCHEN EQUIPMENT	82780	NEC 220-56	53807
H.V.A.C.	34560	100%	34560
LARGEST MOTOR	0	125%	0
MOTOR LOAD	31496	100%	31496
MISC. SINGLE PHASE LOADS	29300	100%	29300
TOTAL VOLT-AMPERS	202992		175963
175963 VA / (208V*1.732)		488.4	AMPS

PANEL SCHEDULES

PROVIDE ISOLATED GROUND FOR REQUIRED CIRCUITS. REFER TO 8.4 POWER PLAN FOR RECEPTACLES AND ASSOCIATED CIRCUITS REQUIRED ISOLATED GROUND.

BREAKER SIZES, EQUIPMENT LOADS, AND FINAL CONNECTIONS MUST BE VERIFIED WITH FINAL EQUIPMENT

REVISIONS:

SUMMARY

AND LOAD

SCHEDULE

Rockgate

Bee

04.27.22 JOB NO: DRAWN BY: SHEET NUMBER:

UPON ACTIVATION OF ANY HOOD FIRE SUPPRESSION SYSTEM RELAY, A RELAY IN THAT FIRE SUPPRESSION SYSTEM SHALL CAUSE THIS RELAY TO DE-ENERGIZE, THUS REMOVING POWER FROM ALL DEVICES CONNECTED TO EQUIPMENT LOCATED UNDER THE GREASE HOOD. EXHAUST FANS SHALL NOT BE AFFECTED BY THIS ACTION AND SHALL CONTINUE TO BE CONTROLLED AS INDICATED IN THE SEQUENCE OF OPERATIONS

INDICATED IN DETAIL 2/8.10.

HOOD EQUIPMENT SHUT DOWN CONTACTOR DETAIL

- NEUTRAL

<u>C-4.1</u>

B-43 - C-018

+ SPARE

→ SPARE

+ SPARE

T SPARE

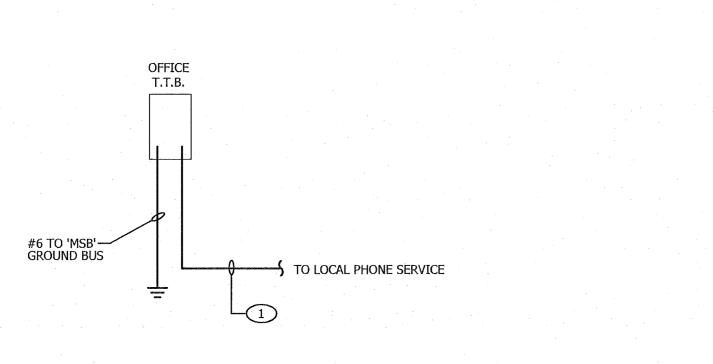
+-- SPARE

C-22 KITCHEN HOOD LIGHTS

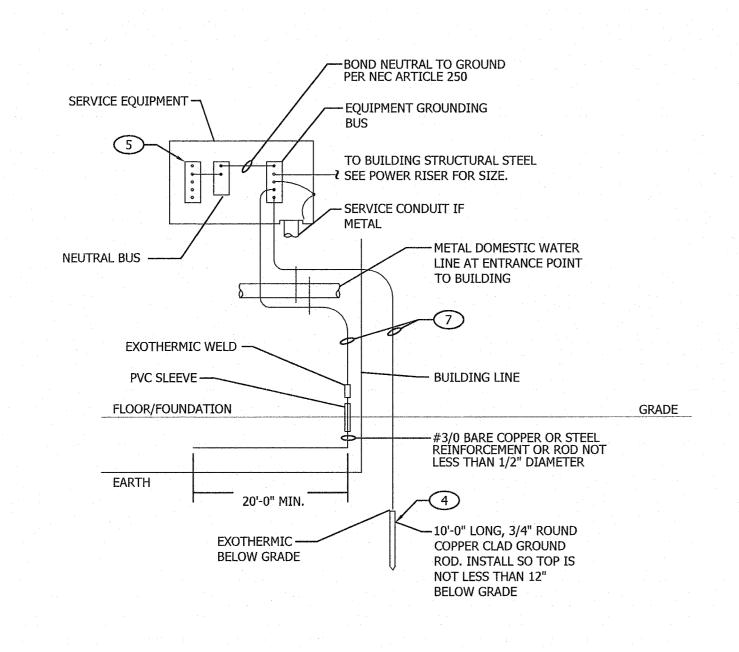
C

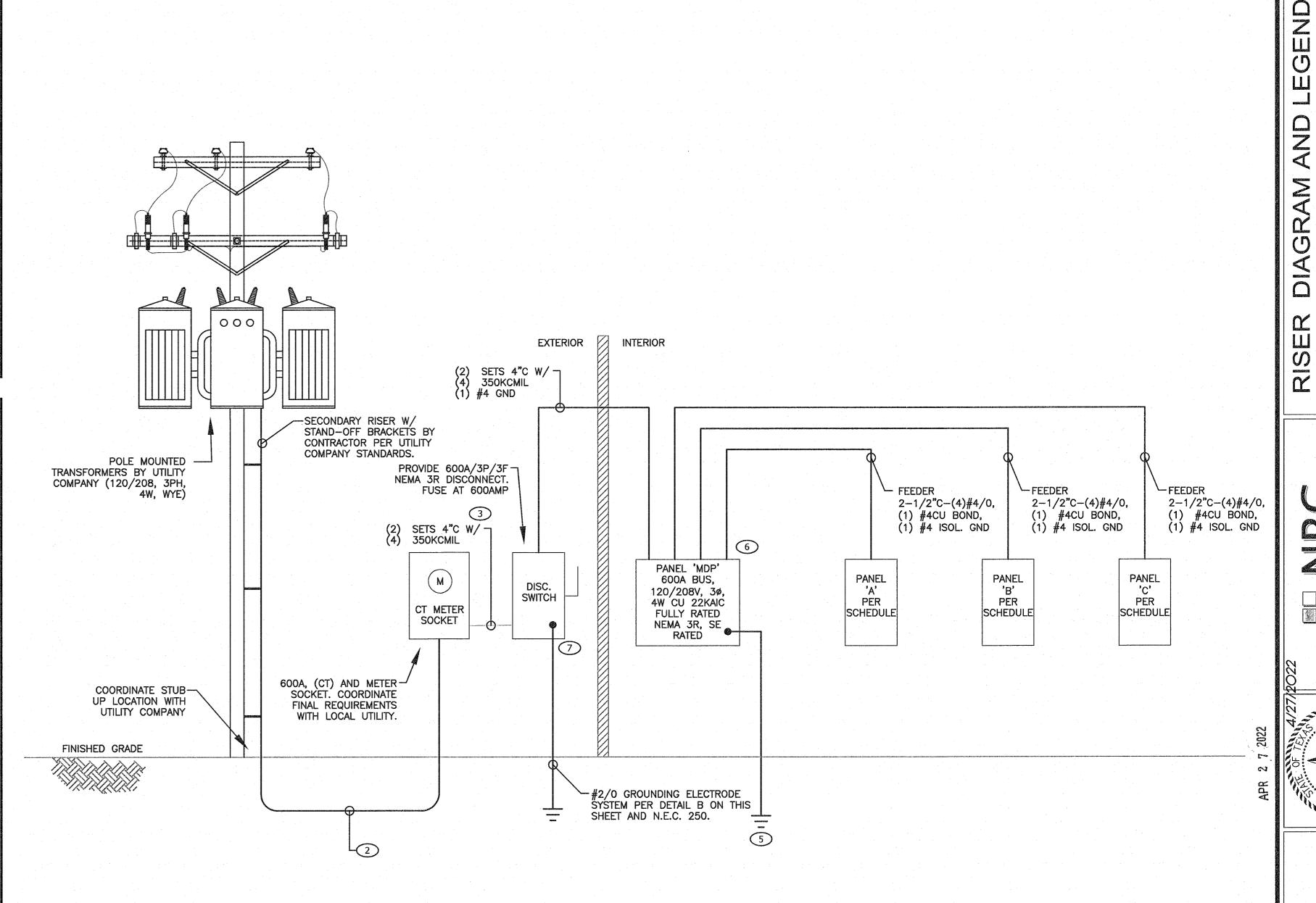
---PROVIDE 16 POLE 30A RATED NORMALLY OPEN, ELECTRICALLY HELD CONTACTOR

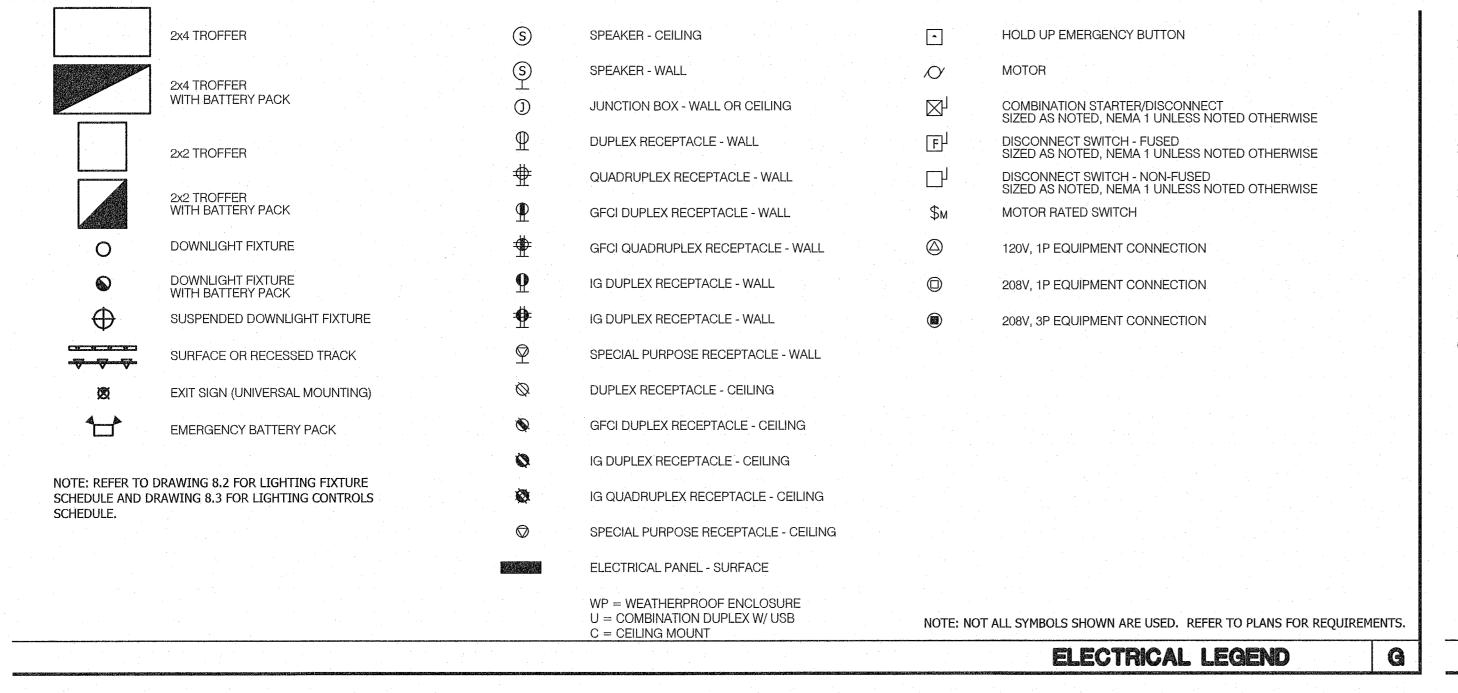
PANEL SCHEDULE NOTES



TELEPHONE BOARD GROUNDING DETAIL







SERVICE GROUNDING DETAIL

8

- THERE SHALL BE U.L. LISTED SERIES RATING BETWEEN CIRCUIT BREAKERS LOCATED AT THE DISTRIBUTION PANEL 'MSB' AND THE DOWNSTREAM 10k A.I.C. RATED CIRCUIT BREAKERS AT PANELS 'A' AND 'B' BASED ON THE MAXIMUM FAULT CURRENT AS DETERMINED AT THE SERVICE ENTRANCE BY THE UTILITY. THE NFPA-70 'SIX SWITCH' MAXIMUM RULE SHALL APPLY AT THE POINT AT WHICH THE SERVICE ENTERS THE BUILDING AS DEFINED BY NFPA-70 (CURRENT EDITION IN FORCE AT THIS SITE). NOTIFY ENGINEER WHERE LOCAL CONDITIONS REQUIRE ALTERNATE LOCATIONS OR SINGLE POINT DISCONNECT.
- 2. SEE SCOPE OF WORK FOR DETAILS REGARDING OWNER SUPPLIED AND/OR INSTALLED PRODUCTS, GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL OTHER ASPECTS OF THE PROJECT.
- 3. IF UTILITY COMPANY PROPOSES A SERVICE DIFFERENT FROM THAT ILLUSTRATED, CONTACT THE ENGINEER FOR A FINAL DECISION BEFORE PROCEEDING. COORDINATE AVAILABLE SHORT CIRCUIT CURRENT W/ LOCAL UTILITY AND PROVIDE CIRCUIT BREAKERS W/ SUFFICIENT INTERRUPTING CAPACITY.
- COORDINATE CT METERING COMPARTMENT SIZE WITH LOCAL UTILITY COMPANY, THE LOCAL ELECTRICAL INSPECTOR, AND THE NATIONAL ELECTRICAL CODE TO MEET ALL REQUIREMENTS BEFORE PURCHASE AND INSTALLATION. NEW METER BY LOCAL UTILITY COMPANY.
- ALL WIRING SHOWN SHALL BE COPPER TYPE "THHN/THWN", UNLESS NOTED OTHERWISE.
- 6. INSTALLATIONS SHALL MEET THE REQUIREMENTS OF NATIONAL, STATE, AND LOCAL CODES AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

GENERAL NOTES

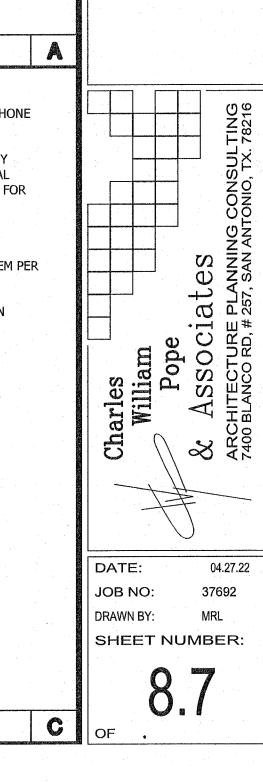
D

1 PROVIDE 2"C STUBBED INTO BUILDING FROM LATERAL POLE FOR TELEPHONE. COORDINATE TELEPHONE SERVICE REQUIREMENTS WITH LOCAL PROVIDER.

ONE-LINE DIAGRAM

KEYED NOTES

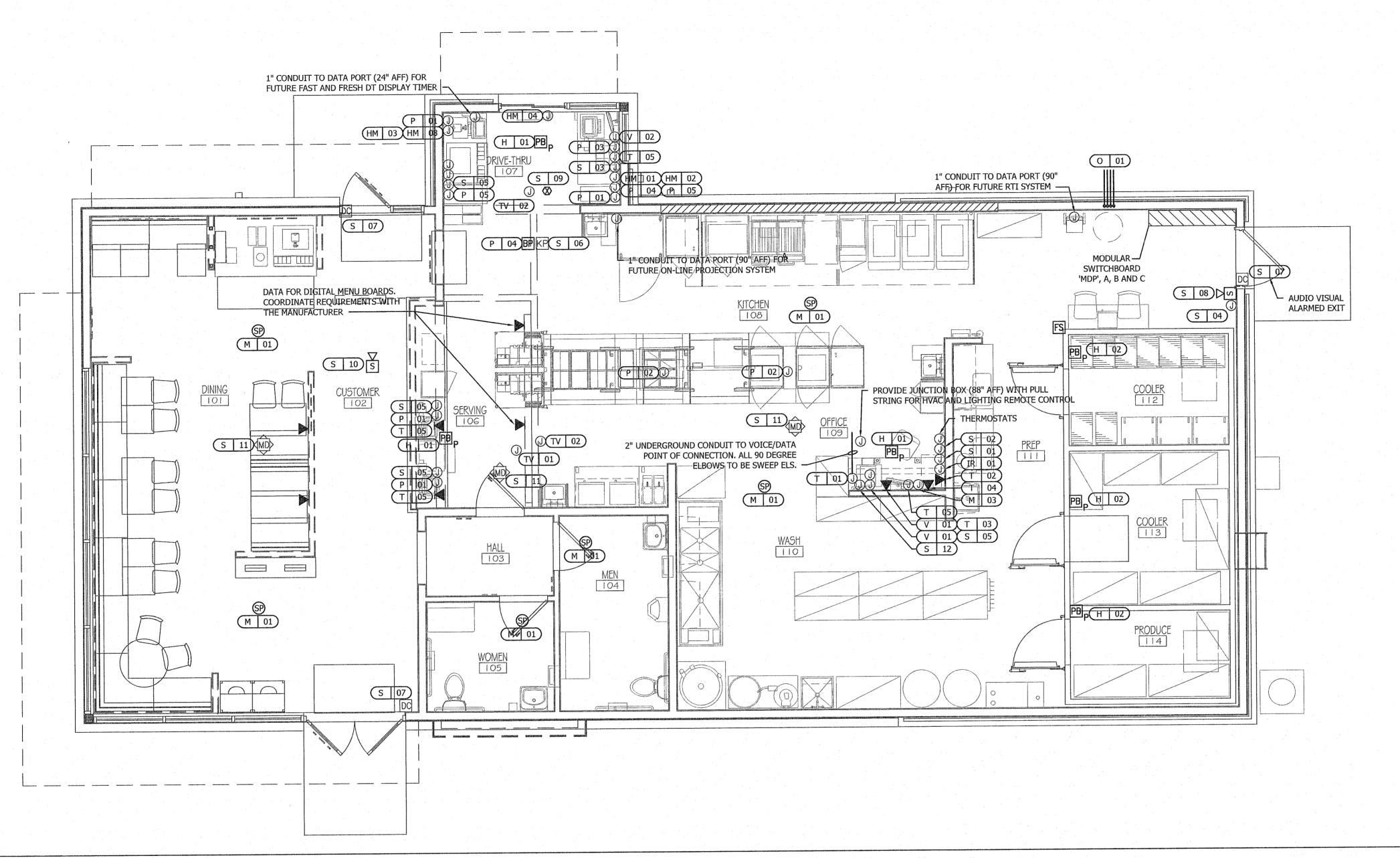
- 2 INSTALL UNDERGROUND SERVICE LATERAL TO UTILITY TRANSFORMER PER LOCAL UTILITY COMPANY REQUIREMENTS. ROUTE (2) 4-350KCIL IN 3"C TO UTILITY TRANSFORMER. COORDINATE ELECTRICAL SERVICE REQUIREMENTS WITH LOCAL UTILITY. REFER TO ELECTRICAL SITE PLAN SHEET MEP-2.2.2 FOR ADDITIONAL REQUIREMENTS.
- 3 VERIFY AVAILABLE FAULT CURRENT AT SERVICE ENTRANCE WITH LOCAL UTILITY COMPANY.
- PROVIDE (3) 3/4" X 10' COPPER GROUND RODS INSTALLED 12' APART AND CONNECT GROUND SYSTEM PER
- 5 PROVIDE PANEL MSB WITH AN ISOLATED GROUND BUS. BOND ISOLATED GROUND BUS TO COMMON
- 6 PANEL MSB SHALL BE SERVICE ENTRANCE RATED.
- 7 #2/0 GROUND IN 3/4" PVC TO GROUNDING COUNTERPOISE



REVISIONS:

Rockgate

INTIMENTATE Rockgate 6807 Military Dr W, San Antonio, Tx. 78227



PB HOLD-UP BUTTON SHALL BE MOUNTED P WITH THE ACTIVATION BUTTON FACING TO THE SIDE (MOUNT 2-1/2" BEHIND	DC DOOR CONTACT (LINKED TO AUDIO / VISUAL ALARM)
COUNTER EDGE)	S "SOUND ALERT" DEVICE
MUSIC SYSTEM SPEAKERS	KP KEYPAD (MTD AT 48" A.F.F.)
SECURITY STROBE	\subseteq
J-BOX	S ALARM SIREN ABOVE CLG
2" x 4" J-BOX W/ DATA PORTS	BP BUMP PAD
MD MOTION DETECTOR	FS HOOD FIRE SUPPRESSION SYSTEM PULL STATION
DC DOOR CONTACT	

COMMUNICATIONS LEGEND	D

- A. SUPPLY AND INSTALL OUTLETS AND CONDUIT FOR OWNER SUPPLIED AND INSTALLED CABLE AND LOW VOLTAGE WIRING (U.O.N.) TELEPHONE AND MUSIC SYSTEM WIRING SHALL BE SUPPLIED AND INSTALLED. SEE SCOPE OF WORK SHEETS.
- B. SEE SHTS. 8.4 AND 8.9 FOR ELECT. INFO ON POS, SECURITY SYSTEM, CCTV SYSTEM, (OFFICE) COMPUTER, DRIVE-THRU TIMER AND DRIVE-THRU COMMUNICATION SYSTEM.
- C. THIS PLAN INCLUDES CONDUITS AND J-BOXES FOR POS, SECURITY SYSTEM, CCTV SYSTEM, (OFFICE) COMPUTER, TELEPHONE SYSTEM, MUSIC SYSTEM, DRIVE-THRU TIMER AND DRIVE-THRU COMMUNICATION SYSTEM.
- D. ALL OUTLETS AND BOXES MOUNTED IN THE SERVING COUNTER CABINETRY ARE TO BE 24" AFF. INSTALL JUNCTION BOXES WITH CONDUIT UNDER CABINET TO NEAREST WALL AND TO ABOVE CEILING.

							COMMUNICATIONS PLAN 1/4"=1'-0"
		ELEVATION	REMARKS	COM. #	EQUIPMENT ITEM	ELEVATION	REMARKS
COM. #	EQUIPMENT ITEM			S 01	J-BOX SECURITY SYSTEM	+48" A,F,F,	4X4 J-BOX AT SECURITY SYSTEM CONTROL PANEL W/ (1) 2" CONDUIT TO S-02.
H 01)	UNDER COUNTER HOLD-UP BUTTON			S 02	J-BOX SECURITY SYSTEM	+106" A.F.F.	4X4 J-BOX ADJACENT TO T-02 W/ (1) 2" CONDUIT TO S-01.
	WALL MOUNTED HOLD-UP BUTTON	+18" A.F.F.	2x4 J-BOX FLUSH MOUNTED IN WALK-IN WALL BY COOLER MANUFACTURER WITH 1/2" CONDUIT TO OUTSIDE	S 03	J-BOX SECURITY SYSTEM	+24" A.F.F.	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABV. CLG. FOR HOLD-UP BUTTON SIGNAL WIRE
1 1 02	WALL PIOONTED HOLD OF BOTTON	125 7.11 11 1	OF COOLER NEAR KITCHEN CEILING. SECURITY SYSTEM INSTALLER TO INSTALL HOLD-UP BUTTON FACING DOWN AND RUN WIRING	S 04	J-BOX SECURITY SYSTEM	+84" A.F.F.	2X4 J-BOX W/ COVER & (1) 1/2" CONDUIT TO ABOVE CEILING.
M O1	D/T J-BOX	+96" U.O.N.	4X4X4" DEEP (MIN.) J-BOX BLW. CEILING W/ (1) 2-1/2" CONDUIT TO HM-02 & HM-07.	S 05	J-BOX SECURITY SYSTEM	+24" A.F.F.	2X4 J-BOX W/ 3/4" CONDUIT TO ABOVE CEILING.
	D/T TIMER J-BOX	+66" A.F.F.	4X4X4" DEEP (MIN.) J-BOX @ D/T TIMER W/ (1) 2-1/2" CONDUIT TO HM-01 & (1) 1" CONDUIT TO HM-04.	S 06	J-BOX SECURITY SYSTEM	+48" A.F.F.	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABOVE CEILING FOR SECURITY SYSTEM KEYPAD.
M 02	D/T TIMER 3-DOX	700 71111		S 07	J-BOX SECURITY SYSTEM	TOP OF JAMB	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABOVE CEILING FOR DOOR CONTACT.
M 03	D/T BASE STATION J-BOX	+72" A.F.F.	4X4 J-BOX @ D/T BASE STATION W/ (1) 1" CONDUIT TO HM-08 & HM-04.	S 08	"SOUND ALERT" DEVICE	B.O.CEILING	CONNECT TO SECURITY SYSTEM.
M 04	D/T COMM SYSTEM J-BOX	+18" A.F.F.	4X8 J-BOX W/ (1) 1" CONDUIT TO HM-02, (1) 1" CONDUIT TO HM-03, (1) 1" CONDUIT TO PICK-UP WINDOW D/T LOOP, AND (3) 1" CONDUITS TO D/T MENU BOARD.	S 09	SECURITY STROBE LIGHT	B.O. CEILING	CONNECT TO SECURITY SYSTEM.
1 07	D/T J-BOX	+108" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 2-1/2" CONDUIT TO HM-01 & (1) 1" CONDUIT TO HM-08.	S 10	ALARM SIREN	ABV. CEILING	CONNECT TO SECURITY SYSTEM
	D/T J-BOX	+96" A.F.F.	2X4 J-BOX BELOW CEILING W/ (1) 1" CONDUIT TO HM-03 & (1) 1" CONDUIT TO HM-07.	S 11	MOTION DETECTOR	+78"	STUB 1/2" CONDUIT
01	IRRIGATION TIMER	+80" A.F.F.	4X4 J-BOX W/ 1" CONDUIT TO IRRIGATION VALVES. PLAN 3 / 8.9.	S 12	J-BOX SECURITY DVR	+42" A.F.F.	2X4 J-BOX FOR SECURITY DVR.
	SPEAKER, CEILING MOUNTED	CEILING	SPEAKER WIRING FROM SPEAKERS IN DINING ROOM TO AMPLIFIER IN OFFICE. FOR EXACT LOCATION OF SPEAKERS, SEE LIGHTING PLAN.	T 01	TELEPHONE SERVICE BOX by LOCAL PROVIDER TWO (2) TELEPHONE LINES PROVIDED	+48" A.F.F.	LINE 1 for VOICE, FAX, SECURITY / LINE 2 for HELPDESK BACKUP. G.C. TO PROVIDE 24" x 24" x 3/4" PLYWOOD PANEL at CEILING; AND PULL STRING IN 2" CONDUIT.
03)	MUSIC SYSTEM J-BOX	+60" A.F.F.	4X4 J-BOX W/ COVER AND W/ 1/2" CONDUIT TO ABV. CEILING FOR MUSIC SYSTEM. FOR RECEIVER, AMPLIFIER	T 02	SECURITY SYSTEM PHONE JACK	+106" A.F.F.	2X4 J-BOX ADJACENT TO S-02 W/ RJ-31X PHONE JACK.
			& SPEAKERS SEE SCOPE OF WORK	T 03	VOICE LINE PHONE JACK	+42" A.F.F.	2X4 J-BOX w/ DUPLEX RECEPTACLE (VOICE + DSL); ROUTE 1" CONDUIT ABOVE CEILING.
	(4) 1" DATA CONDUITS	U.G.	FROM MENU BOARDS and SPEAKER POST to ABOVE CEILING for OCB and D/T COMM. SYSTEM.	T 04	COMPUTER LINE PHONE JACK	+42" A.F.F.	2X4 J-BOX w/ DUPLEX RECEPTACLE (INT. MODEM + EXT. MODEM); ROUTE 1" CONDUIT ABOVE CEILING.
01	POS J-BOX	+24" A.F.F.	2X4 J-BOX W/ 3/4" CONDUIT TO ABOVE CEILING	T 05	POS CAT5 CABLE JACK	+24" A.F.F.	2X4 J-BOX; ROUTE 1" CONDUIT ABOVE CEILING.
02	KITCHEN MONITOR J-BOX	@ CLG.	2X4 J-BOX FLUSH @ CEILING. FOR PACK LINE / FUTURE ON-LINE PROJECTION MONITOR J-BOX		CLOSED CIRCUIT TELEVISION (CCTV)		THE STANDARD CCTV SYSTEM: (2) CCTV MONITORS, (1) w/ WALL BRACKETS AND (3) MINI-DOME CAMERAS.
03)	KITCHEN MONITOR J-BOX	+84" A.F.F.	2X4X4" DEEP (MIN.) J-BOX W/ (1) 3/4" CONDUIT TO ABOVE CEILING.	(TV 01)		+102" A.F.F.	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABV. CLG. BTM. OF MONITOR TO BE AT 96" A.F.F.
04)	BUMP PAD J-BOX		2X4 J-BOX W/ (1) 3/4" CONDUIT TO P-05.	TV 02		+96" A.F.F.	THE PROPERTY OF THE PROPERTY O
05	KITCHEN MONITOR J-BOX	+90" A.F.F.	2X4 J-BOX W/ (1) 3/4" CONDUIT TO P-04 AND (1) 3/4" CONDUIT TO ABOVE CEILING.	CVI	ALTERNATE PAYMENT ROUTER BOX	+90" A.F.F.	4X4 J-BOX W/ 1/2" CONDUIT TO ABOVE CEILING FOR ETHERNET CABLES (DOUBLE JACK)
06)	NOT USED			(V 01)			2X4 J-BOX W/ 1/2" CONDUIT TO ABOVE CEILING FOR ETHERNET CABLES.
P 07	NOT USED			V 02	CREDIT CARD READER (VSAT)	+24" A.F.F.	COMMUNICATIONS ROUGH-IN SCHEDULE

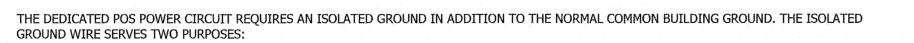
COMMUNICATIONS NOTES

JOB NO:

REVISIONS:

MINITED IN, San Antonio, Tx. 78227

37692 DRAWN BY: SHEET NUMBER:



* AS A SAFETY PATH TO GROUND. * AS A ZERO REFERENCE POINT FOR ALL POS DIGITAL LOGIC.

THE GROUND MUST EXHIBIT THE LOWEST POSSIBLE IMPEDANCE TO MINIMIZE VOLTAGE TRANSIENTS AND NOISE.

BE SURE TO:

- * USE AN INSULATED CONDUCTOR FOR THE ISOLATED GROUND WIRE.
- * RUN THE ISOLATED GROUND WIRE THROUGH THE SAME CONDUIT AS THE HOT AND NEUTRAL WIRES.

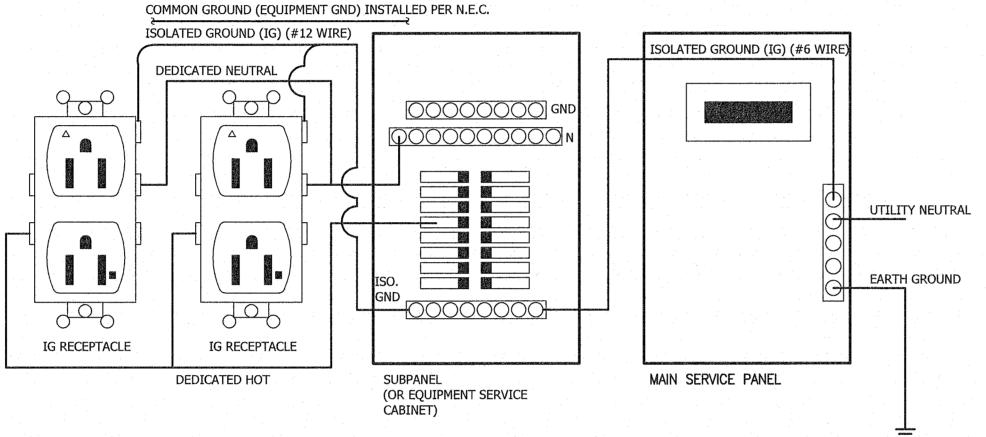
- * INSTALL ONLY ISOLATED GROUND (IG) TYPE RECEPTACLES.

 * CONNECT THE ISOLATED GROUND WIRE TO BUILDING GROUND ONLY AT THE MAIN SERVICE PANEL.

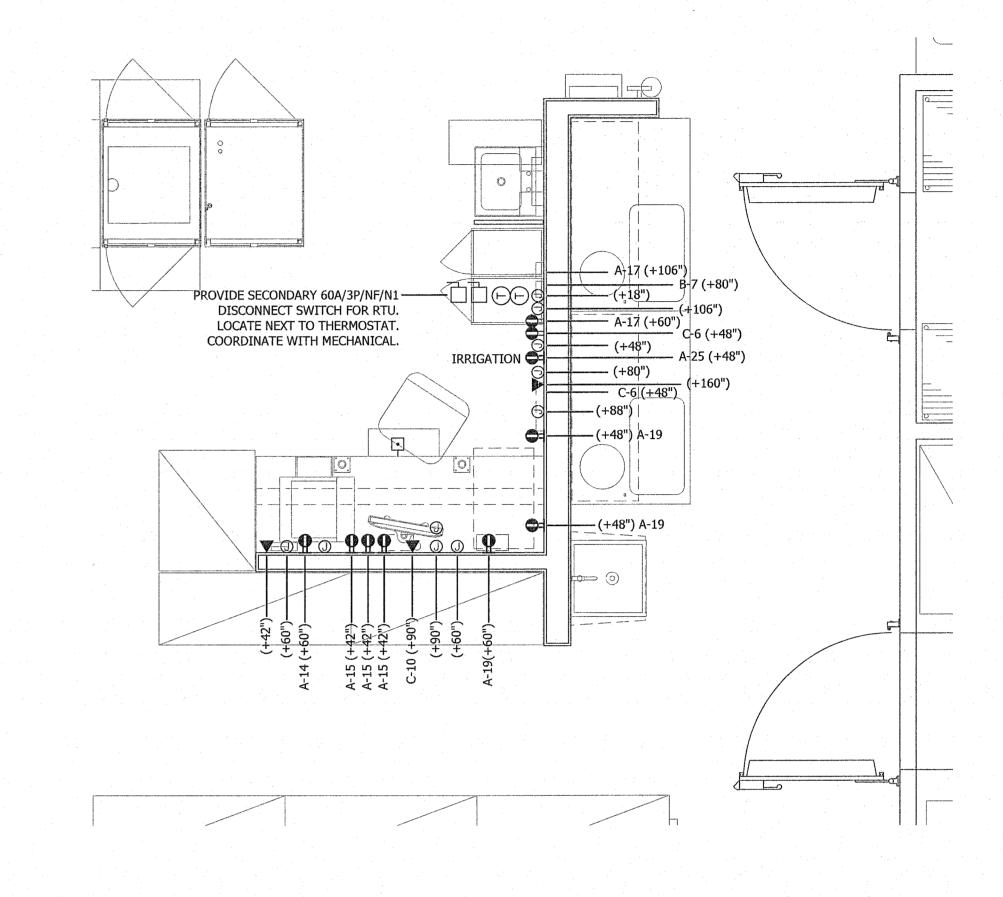
 * VERIFY THAT IG RECEPTACLES PRE-WIRED IN OWNER SUPPLIED EQUIPMENT HAVE A TRUE ISOLATED GROUND THAT CAN BE TRACED BACK TO THE BUILDING GROUND AT THE MAIN SERVICE PANEL.

DO NOT CONNECT THE ISOLATED GROUND WIRE TO THE CONDUIT, JUNCTION BOXES, THE FRAME ON A SUBPANEL, OR ANY OTHER METAL SURFACE.

<u>DEDICATED CIRCUITS:</u> DEDICATED CIRCUITS REQUIRE A DEDICATED HOT AND A DEDICATED NEUTRAL THAT ARE NOT SHARED WITH ANY OTHER CIRCUITS. IG RECEPTACLES MUST BE "PHASE ALIGNED" WITH THE "B" PHASE OF BUILDING SUBPANEL "A".



P.O.S. ISOLATED GROUND SYSTEM N.T.S.



ENLARGED POWER AND COMMUNICATIONS PLAN (OFFICE) 1/2" = 1'-0" A

REVISIONS:

DETAILS

ABD

N N

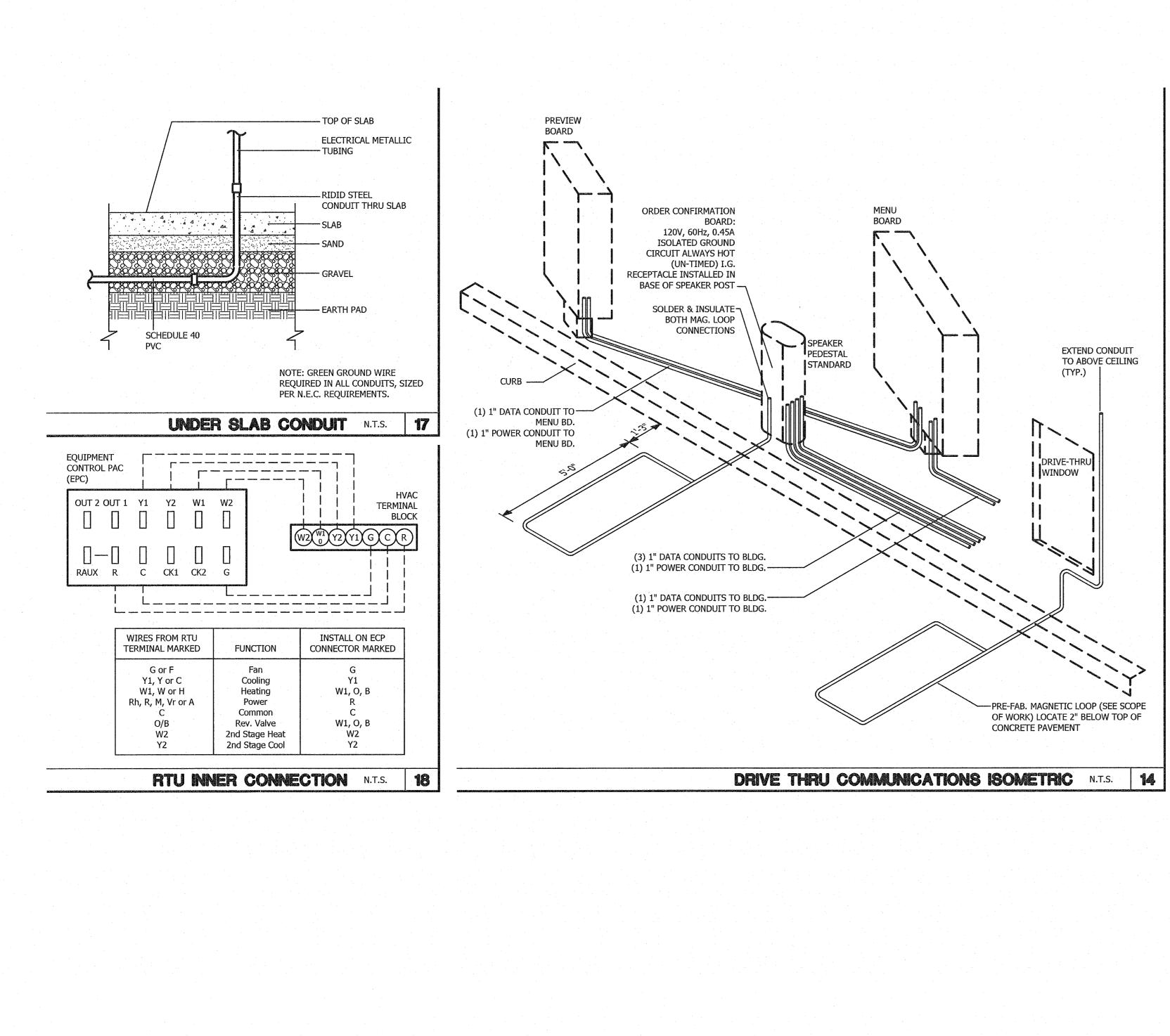
6807 Military Dr W, San Antonio, Tx. 78227

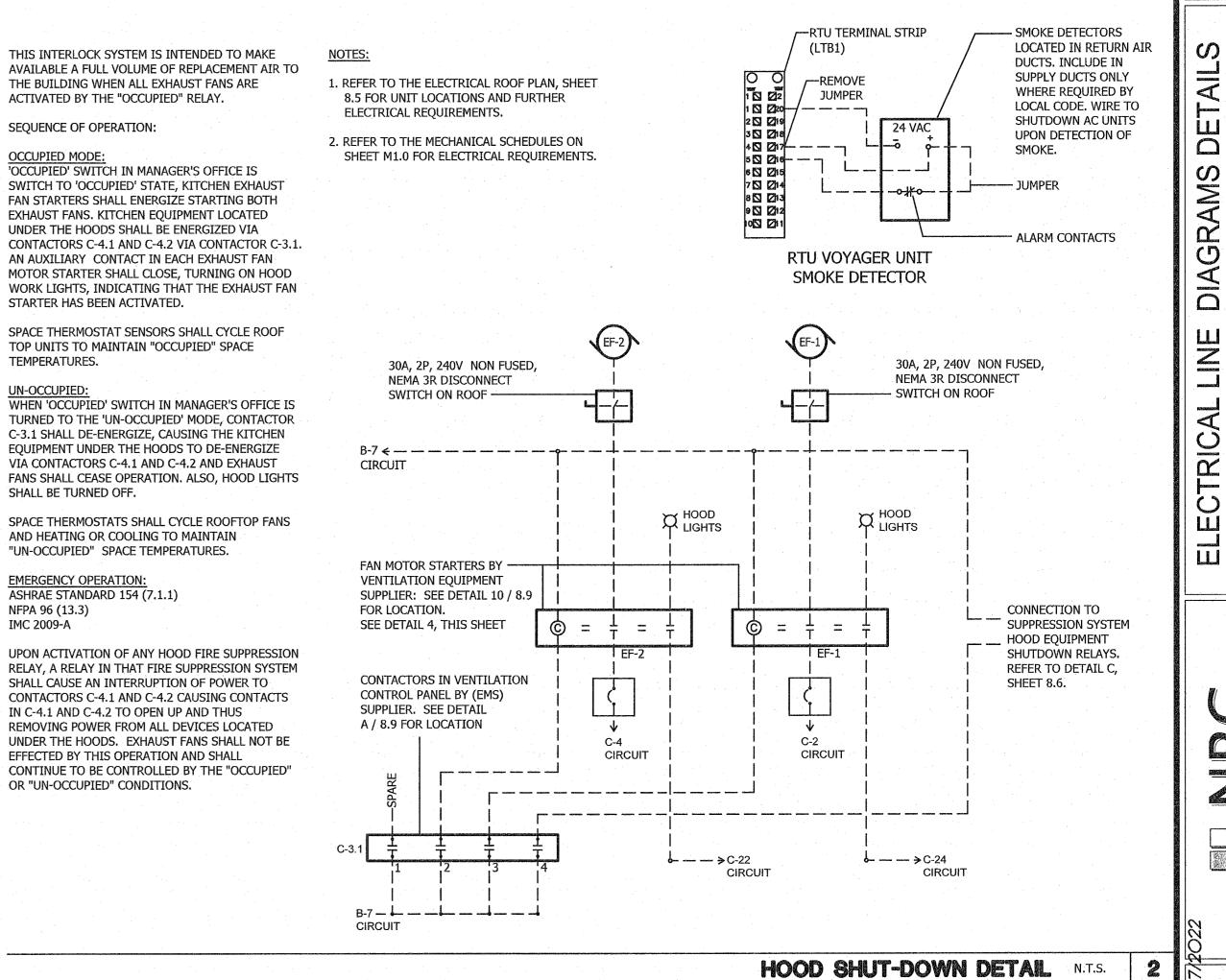
SHEET NUMBER:

NOT USED N.T.S. 18

NOT USED N.T.S. B

NOT USED N.T.S. C





ELECTRICIAN NOTES:

IMC 2009-A

All Hood/Fan/DCV/UDS/PCU electrical connections and interconnections to be provided and installed by Electrician. Electrician to provide, install, and land wiring between hood lights, hood temp sensors, remote Ansul system microswitches, and any other component requiring an electrical connection to the Captive—Aire electrical package. Failure by the Electrician to make ALL required electrical connections and interconnections will result in the electrical controls not working properly. Any loss or failed test as a result of electrical controls not working properly is the responsibility of the Electrician. Light bulbs for kitchen hoods to be provided and installed by electrician.

REFER TO 7.10 FOR ADDITIONAL

REQUIREMENTS.

(ST-1) (OL-1) BREAKER EF-1 DEFINITION AND ADDRESS AND ADD A1 N VENTILATION SEE DETAIL 2, THIS SHEET "OCCUPIED" SWITCH.---BREAKER PANEL A
(BY SWITCHGEAR SUPPLIER) A1 N (ST-2) (OL-2) BREAKER

FAN MOTOR STARTER CONTROLS (BY VENTILATION EQUIP. SUPPLIER)

NOT USED N.T.S.

(BY SWITCHGEAR SUPPLIER)

EXHAUST FAN MOTOR STARTERS N.T.S.

SHEET NUMBER:

DATE: JOB NO:

DRAWN BY:

ASSOCIATES
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD, # 257, SAN ANTONIO, TX. 78216

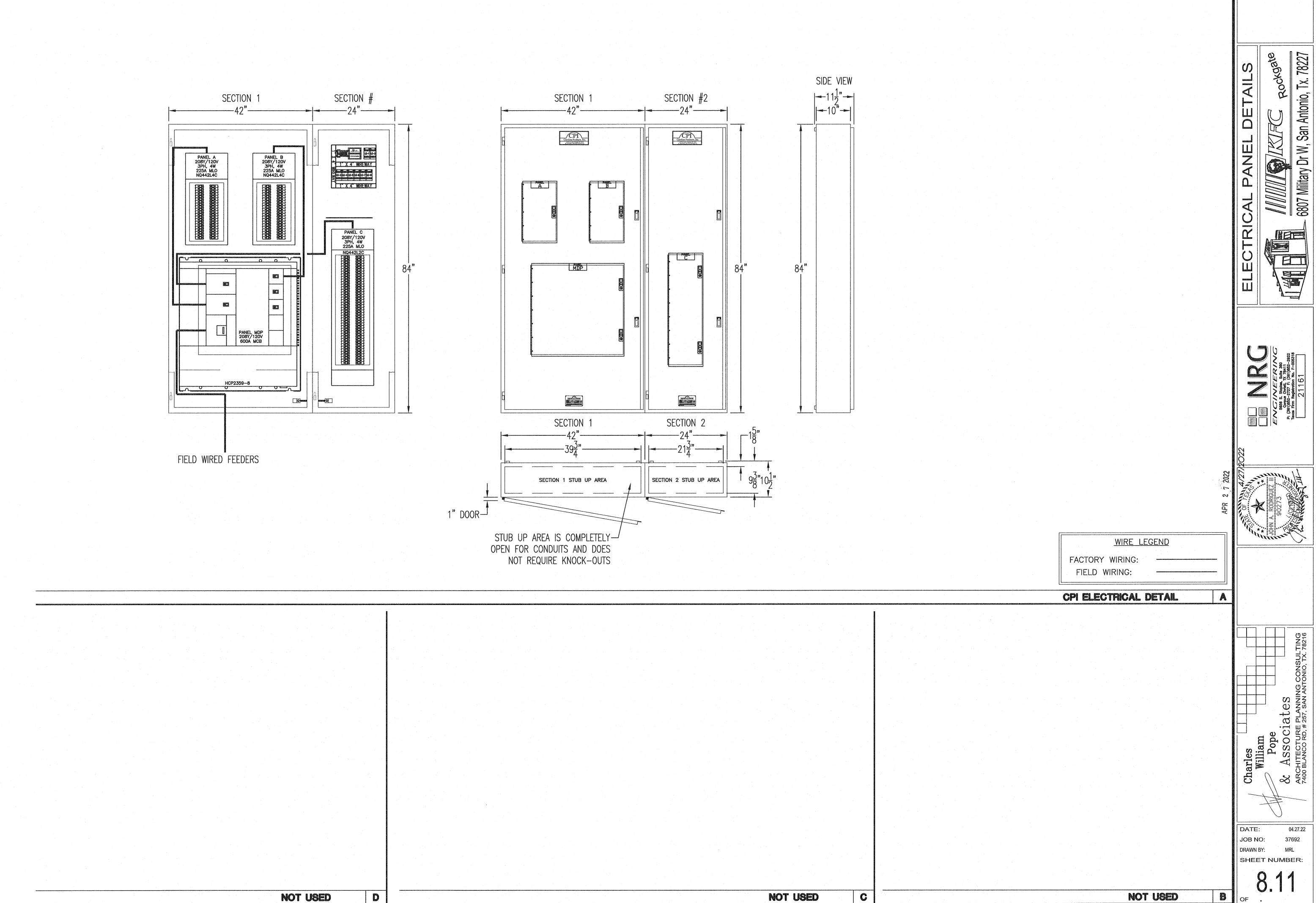
04.27.22

37692

REVISIONS:

78227

Dr W, San Antonio,



8

REVISIONS:

KEYED NOTES - RISER DIAGRAM DETAILS:

- (1) REFER TO PLUMBING FIXTURE SCHEDULE FOR SOIL OR WASTE ROUGH-IN PIPE SIZE. MINIMUM SOIL OR WASTE DRAIN LINE SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
- (2) REFER TO PLUMBING FIXTURE SCHEDULE FOR SANITARY VENT ROUGH-IN PIPE SIZE. MINIMUM SANITARY VENT BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
- (3) REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE DRAIN ROUGH-IN PIPE SIZE. MINIMUM FIXTURE DRAIN AND TRAP SIZE FOR THIS FIXTURE.
- (4) REFER TO PLUMBING FIXTURE SCHEDULE FOR WATER PIPING ROUGH-IN PIPE SIZE. MINIMUM WATER SUPPLY BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
- $\langle 5
 angle$ shock arrestor inlet; refer to shock arrestor schedule FOR SIZE. LOCATION SHOWN HERE FOR INDIVIDUAL FIXTURE WILL VARY WHERE INCLUDED AS PART OF PLUMBING CHASE BATTERY OF PIPING. REFER TO RISER DIAGRAMS FOR BATTERY LOCATIONS ARRANGE ALL WATER LINES TO GRAVITY DRAIN.
- $\langle 6 \rangle$ wall cleanouts shall be provided <u>aat</u> end of battery or END OF BRANCH LINE FIXTURES AND WHERE REQUIRED BY PLUMBING CODE OFFICIALS TO ASSURE COMPLETE ACCESS TO ALL PORTIONS OF DRAIN.
- (7) SANITARY VENT PIPES SHALL CONTINUE TO CEILING OR HEADER TOGETHER AT A MINIMUM 42" ABOVE FIN. FLOOR.
- (8) TRAP REFILL LINE; SEE PLUMBING DETAILS SHEET. EXTEND AND CONNECT TO FLOOR DRAIN TRAP AS SHOWN.

PLUMBING PIPE MATERIAL	LS SCHEDULE
PIPING SYSTEM	PIPING MATERIAL
SANITARY SEWER BELOW GRADE	SCHEDULE 40 DWV PVC
SANITARY DRAIN AND VENTS ABOVE GRADE	SCHEDULE 40 DWV PVC*
GREASE WASTE BELOW GRADE	SCHEDULE 40 DWV PVC
GREASE WASTE AND VENTS ABOVE GRADE	SCHEDULE 40 DWV PVC*
DOMESTIC HOT & COLD WATER BELOW GRADE	COPPER, TYPE "K" SOFT
DOMESTIC HOT & COLD WATER ABOVE GRADE	COPPER, TYPE "L" HARD DRAWN
NATURAL GAS	SCHEDULE 40 BLACK STEEL
HOT WATER PIPE INSULATION	1" RIGID FIBER GLASS
RO FILTERED WATER (PP) POLYPROPYLENE/SCH 80 CPVC
*SCHEDULE 40 DWV PVC SHALL NOT BE USED IN RETU	RN AIR PLENUMS. WHERE

CEILING PLENUMS ARE USED FOR RETURN AIR, CONTRACTOR SHALL ONLY USE

BELL AND SPIGOT SERVICE WEIGHT CAST IRON PIPE.

GENERAL NOTES:

- CONTRACTOR TO FIELD VERIFY ELEVATIONS AND DIMENSIONS OF FINISHED FLOORS AND WALLS. TRUE ALL DRAINS, ROUGH-INS AND CARRIERS IN ACCORDANCE WITH THE PROPOSED ELEVATIONS AND FINISHED SURFACES.
- MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG OR COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION OF ROUGH-IN
- 3. FOR ALL FIXTURES AND EQUIPMENT WITH ASSOCIATED TRIM OR COMPONENT ACCESSORIES, PROVIDE UNDER SEPARATE DIVISIONS AND REQUIRING PLUMBING CONNECTIONS; THIS CONTRACTOR SHALL FIELD COORDINATE EXACT REQUIREMENTS OF, MAKE PROVISIONS FOR, AND SUPPLY ALL MATERIALS AND LABOR FOR MAKING FINAL CONNECTIONS.
- L. CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF EQUIPMENT TO BE SUPPLIED FOR FINAL COORDINATION OF ALL ROUGH-IN OPENINGS BEFORE BEGINNING WORK.
- 5. ALL FIXTURE AND EQUIPMENT STUB-OUTS SHALL BE PROVIDED WITH A STOP VALVE. ALL FIXTURE STOPS SHALL BE SOLID BRASS, LOOSE KEY OPERATED, CHROME PLATED (WERE EXPOSED), AND FITTED TIGHT TO CHROME PLATED BRASS WALL ESCUTCHEON PLATES. SUPPLY RISERS SHALL BE TYPE "L" TUBING, CHROME PLATED. PROVIDE 1/2" FIP X 3/8" OD COMPRESSION FITTINGS FOR ALL SINKS, LAVATORIES, AND SIMILAR FIXTURES.
- 6. ALL P-TRAPS WITHIN THE BUILDING, ABOVE GRADE AND EXPOSED TO INSPECTION SHALL BE CHROME PLATED ADJUSTABLE, CAST BRASS WITH CLEANOUT PLUG, PROVIDE C.P. CAST BRASS SLIP NUTS AND WASHERS, 17 GAGE SEAMLESS TUBULAR BRASS DRAIN TO WALL AND WALL FLANGE, PROVIDE 1-1/2" P-TRAP FOR ALL LAVATORIES AND SIMILAR FIXTURES. PROVIDE 1-1/2" P-TRAP FOR ALL SINKS AND SIMILAR FIXTURES, MCGUIRE OR EQUAL
- 7. ALL ROUGH-IN OPENINGS SHALL BE FITTED WITH CHROME PLATED, WROUGHT BRASS DEEP BELL OR BOX ESCUTCHEON PLATES FITTED TIGHT TO PIPE AND FLUSH TO WALL. STEEL ESCUTCHEON PLATES ARE NOT ACCEPTED.
- 8. ALL EXPOSED BRASS SHALL BE CHROME PLATED.
- 9. ALL HANDICAPPED ACCESSIBLE FIXTURES SHALL BE OF APPROVED TYPES AND WITH REQUIRED CONTROLS INSTALLED TO HEIGHTS AND CLEARANCES, AS PRESCRIBED BY THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE TEXAS ACCESSIBILITY STANDARDS (TAS). FIXTURES SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL ACCESSIBILITY CODE REQUIREMENTS. PROVIDE FIXTURES WITH DEPTHS AT MAXIMUM PERMITTED AND AVAILABLE FOR INTENDED FIXTURE
- 10. INSULATE ALL EXPOSED WATER AND DRAIN LINES ON ADA/TAS ACCESSIBLE LAVATORIES AND SINKS WITH MCGUIRE PRO WRAP OR EQUAL. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO PROVIDE MINIMUM CLEARANCES.
- 11. ALL ADA/TAS SINKS SHALL BE STAMPED WITH DRAIN OUTLET AT THE REAR OF THE BOWL.
- 12. PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION TYPE IN ACCORDANCE WITH SENATE BILL 587 FOR WATER SAVING PERFORMANCE. LAVATORY AND SINK FAUCETS SHALL INCLUDE 0.5 GPM AND 2.2 GPM FLOW CONTROL RESPECTIVELY.
- 13. ORIENT ADA/TAS WATER CLOSET FLUSH VALVE WITH OPERATOR ON LARGE SIDE OF ENCLOSURE AND BELOW GRAB
- 14. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE LATEX CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.
- 15. FLOOR DRAINS SHALL BE INSTALLED AT LOW POINTS OF UNIFORMLY SLOPED FLOOR, CONTRACTOR SHALL FIELD COORDINATE WITH STRUCTURAL TO INSURE FLOORS ARE UNIFORMLY SLOPED ACROSS ENTIRE TOILET ROOMS OR OVER AS WIDE AN AREA AS PRACTICAL FOR OPEN AREA FLOOR DRAINS. CONVEX FLOOR SLOPE IN THE IMMEDIATE VICINITY OF THE FLOOR DRAIN IS NOT ACCEPTABLE.
- 16. EQUIVALENT MANUFACTURES OF CHINA FIXTURES ARE KOHLER, AND AMERICAN STANDARD, EQUIVALENT MANUFACTURES OF STAINLESS FIXTURES ARE JUST, ELKAY, AND ADVANCE TABCO.
- 17. WATER HEATER SHALL BE PROVIDED WITH CODE APPROVED VACUUM BREAKER AND BRASS ASME TEMPERATURE AND PRESSURE RELIEF VALVE. ROUTE TPR DRAIN LINE FULL SIZED TO EXTERIOR OF BUILDING AND TERMINATE 6" ABOVE FINISHED GRADE, OR AS INDICATED ON PLANS.
- 18. ROOF PENETRATIONS SHALL BE DONE IN STRICT COMPLIANCE WITH THE ARCHITECTS SPECIFICATIONS AND SHALL BE LEAK
- 19. FIELD VERIFY ALL EXISTING CONDITIONS AND LOCATION OF STUB OUTS. NOTIFY ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY WHICH MAY AFFECT THE INTENDED DESIGN.
- 20. ALL PLUMBING WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL STATE AND LOCAL CODES.

PROVIDED.

- 21. THE PLUMBING CONTRACTOR SHALL GUARANTEE THE COMPLETE PLUMBING SYSTEM TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF 12 MONTHS FROM DATE OF FINAL ACCEPTANCE.
- 22. ALL WATER HEATER SUPPLY CONNECTIONS SHALL HAVE HEAT TRAP NIPPLE CONNECTIONS, HEAT TRAP NIPPLES NOT REQUIRED IF HOT WATER RECIRCULATION SYSTEM IS

SECTION 15400 PLUMBING SYSTEM

THE WORK INCLUDES PROVIDING NEW MATERIALS, FITTINGS, AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING PLUMBING SYSTEM. THE WORK ALSO INCLUDES ROUGH-IN AND FINAL CONNECTIONS TO FOOD SERVICE EQUIPMENT PROVIDED BY OTHERS. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND/OR ORDINANCES AND IS SUBJECT TO

CONNECTION CHARGES, PERMITS AND ALL OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING PLUMBING SYSTEM ARE INCLUDED AS A PART OR THIS SECTION. THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, FIXTURES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD ROUGH-IN DRAWINGS FOR PLUMBING FIXTURE INSTALLATION REQUIREMENTS. COMPLY WITH ALL APPLICABLE ADA INSTALLATION REQUIREMENTS.

COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS ON THE PROJECT SITE.

COORDINATE WITH DIVISION 1 FOR SUBMITTAL TIMETABLE REQUIREMENTS, UNLESS NOTED OTHERWISE WITHIN THIRTY (30) DAYS AFTER THE CONTRACT IS AWARDED THE CONTRACTOR SHALL SUBMIT A MINIMUM OF ONE ELECTRONIC COPY IN A PORTABLE DIGITAL FORMAT (PDF) COMPLETE WITH TABLE OF CONTENTS AND BOUND SETS OF SHOP DRAWINGS AND COMPLETE DATA COVERING EACH ITEM OF EQUIPMENT OR MATERIAL. THE FIRST SUBMITTAL OF EACH ITEM REQUIRING A SUBMITTAL MUST BE RECEIVED BY THE ARCHITECT OR ENGINEER WITHIN THE ABOVE THIRTY DAY PERIOD. THE ARCHITECT OR ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DELAYS OR COSTS INCURRED DUE TO EXCESSIVE SHOP DRAWING REVIEW TIME FOR SUBMITTALS RECEIVED AFTER THE THIRTY (30) DAY TIME LIMIT. THE ARCHITECT AND ENGINEER WILL RETAIN A COPY OF ALL SHOP DRAWINGS FOR THEIR FILES. WHERE FULL SIZE DRAWINGS ARE INVOLVED, SUBMIT ONE (1) PRINT IN LIEU OF ELECTRONIC COPIES. ALL LITERATURE PERTAINING TO AN ITEM SUBJECT TO SHOP DRAWING SUBMITTAL SHALL BE SUBMITTED AT ONE TIME. A SUBMITTAL SHALL NOT CONTAIN INFORMATION FROM MORE THAN ONE SPECIFICATION SECTION. BUT MAY HAVE A SECTION SUBDIVIDED INTO ITEMS OR EQUIPMENT AS LISTED IN EACH SECTION. THE CONTRACTOR MAY ELECT TO SUBMIT EACH ITEM OR TYPE OF EQUIPMENT SEPARATELY.

PIPING SYSTEMS - GENERAL: ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK SUCH AS DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING, PROVIDE AN ISOLATING DIELECTRIC UNION. ALL HANGERS SHALL BE COMPATIBLE WITH PIPING MATERIAL TO PREVENT CORROSION.

PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT

SEWER/WASTE PIPING: SANITARY DRAINAGE PIPING ABOVE FLOOR SHALL BE HUBLESS CAST IRON, PVC PIPE WHERE ACCEPTED BY CODE, FITTINGS AND CONNECTIONS. SANITARY DRAINAGE PIPING BELOW GRADE SHALL BE SCHEDULE 40 PVC WITH SOVENT WELD JOINTS AND FITTINGS. ALL DRAINAGE PIPING SHALL BE UNIFORMLY PITCHED, 1/4" PER FOOT FOR SIZES 3" AND SMALLER AND 1/8" PER FOOT FOR PIPE SIZES 4" AND LARGER.

VENTS: PROVIDE A COMPLETE SYSTEM OF STANDARD WEIGHT CAST IRON. DO NOT USE DWV PLASTIC IN RETURN AIR PLENUM SPACES. THE VENT SYSTEM SHALL BE CARRIED THROUGH THE ROOF WITH APPROPRIATE FLASHING.

CONDENSATE AND INDIRECT DRAIN PIPING: TYPE M COPPER TUBING UP TO 1" ID, TYPE DWV TUBING AND FITTINGS FOR 1-1/4" AND LARGER SIZES.

CLEANOUTS: PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPES THEY SERVE, CONFORMING TO CODE REQUIREMENTS. PROVIDE SUITABLE WALL OR FLOOR CLEANOUTS WITH ACCESSORIES TO OBSCURE FROM VIEW. WATER DISTRIBUTION PIPING: LAYOUT WATER PIPING SO THAT THE ENTIRE SYSTEM CAN BE DRAINED. HOT AND COLD WATER PIPING SHALL BE 1/2" MIN. TYPE L COPPER TUBING WITH WROUGHT COPPER FITTINGS AND SWEAT CONNECTIONS. PROVIDE WATER HAMMER ARRESSTORS AT EACH FIXTURE STOP. INSTALL CHROME PLATED BRASS ESCUTCHEON PLATES AT ALL PENETRATIONS THROUGH FINISHED SURFACES (INCLUDING CABINET INTERIORS). USE TIN-ANTIMONY SOLDER, 95/5 FOR ALL SWEAT FITTINGS OF

COPPER PIPING. PIPE INSULATION: INSULATE ALL HOT AND COLD WATER PIPING. PROVIDE 1" PRE-FORMED FIBERGLASS, ASJ-VB, FLAME SPREAD 25, SMOKE DEVELOPED 50, ASTM C-547. OR PROVIDE WHERE PERMITTED BY LOCAL CODES, 1" SELF-ADHESIVE CLOSED CELL FOAM PIPE INSULATION WITH PRE-FORMED PVC FITTING COVERS - EQUAL TO SELF-ADHESIVE ARMACELL'S AP ARMAFLEX WITH K FACTOR OF 0.27 AT 75 DEGREES MEAN TEMPERATURE. INSULATE ANY EXPOSED CONDENSATE PIPING WITH WASTE TEMPERATURES BELOW 60

PROVIDE HEAT TRAPS AT HOT AND COLD WATER CONNECTIONS TO WATER HEATER. SHUTOFF VALVES, WITH UNIONS SHALL BE PROVIDED FOR SERVICE TO EACH PLUMBING FIXTURE, FOOD SERVICE EQUIPMENT ITEM OR OTHER EQUIPMENT ITEM, TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. VALVES SHALL BE EQUAL TO NIBCO NO. T-585-70-66 BALL VALVE, BRONZE BODY, S.S. BALL AND STEM, TEFLON SEATS AND PACKING, 600 LB. W.O.G., THREADED UNION END.

ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, ETC. ARE CONCEALED WITHIN WALLS. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN SUSPENDED CEILINGS, ACCESS PANELS ARE

NOT REQUIRED. SUPPLIES AND TRAPS: PROVIDE WATER SEALED TRAPS AND/OR SUPPLIES INSTALLED AS CLOSE AS POSSIBLE TO ALL PLUMBING FIXTURES, DRAINS, AND FOOD SERVICE EQUIPMENT OR BEVERAGE DISPENSING EQUIPMENT ITEMS FURNISHED BY OTHERS, HAVING A WASTE CONNECTION, OR REQUIRING WATER SERVICE. EXPOSED TRAPS AND SUPPLIES IN EXPOSED AREAS (INCLUDING CABINET INTERIORS) SHALL BE CHROMIUM PLATED BRASS, WITH CHROME PLATED BRASS NUTS AND CHROME PLATED BRASS ESCUTCHEON PLATES. PROVIDE HUBLESS CAST IRON WASTE PIPING AND FITTINGS FOR THE TWO, THREE AND, FOUR COMPARTMENT SINKS. REMOVE MARKINGS FROM ALL PIPING WHEN INSTALLATION IS COMPLETE.

INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. PROCEED AS RAPIDLY AS CONSTRUCTION WILL PERMIT. SET ALIGNMENT WITH FIXTURES. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL, FOR SANITARY JOINT, AND OMIT ESCUTCHEONS.

REPAIR EXISTING PLUMBING SYSTEM COMPONENTS DAMAGED BY CONSTRUCTION OPERATIONS AND RESTORE TO ORIGINAL CONDITIONS.

TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR FOUR (4) HOURS MINIMUM. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.

SHOP DRAWINGS: CONTRACTORS TO PROVIDE SIX SETS OF SHOP DRAWING SUBMITTALS FOR REVIEW AND APPROVAL TO ARCHITECT. OWNER, ARCHITECT, AND ENGINEER (WHEN APPLICABLE) TO RETAIN ONE SET FOR THEIR OWN RECORDS.

- 1. CONTRACTOR SHALL CAREFULLY REVIEW CONTRACT DOCUMENTS INCLUDING DRAWINGS SUBCONTRACTORS ARE DISPERSED THROUGHOUT THE DOCUMENTS AND CANNOT BE
- 3. ALL DEVICES INSTALLED ON ROOF TOP EQUIPMENT SHALL BE MOUNTED ON A NON-REMOVABLE PANEL OF THE EQUIPMENT. THIS LOCATION SHALL BE COORDINATED WITH THE MECHANICAL OR PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- 4. ROOF DECK PENETRATIONS: CONTRACTOR SHALL SECURE LANDLORD APPROVAL FOR ALL BUILDING ROOF DECK PENETRATIONS. REQUESTS SHALL BE ON A SCALED ROOF PLAN SHOWING EXACT LOCATION & SIZE OF PENETRATION & INCLUDE DETAILS OF MOUNTING, FLASHING & SEALING. CONTRACT WITH THE LANDLORD'S ROOFING CONTRACTOR TO PERFORM ALL WORK AT THIS CONTRACTOR'S SOLE EXPENSE. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ROOFTOP EQUIPMENT, NEW ROOF PENETRATIONS, REMOVAL OF EXISTING ROOFTOP EQUIPMENT & INSTALLATION OF ALL ROOFTOP EQUIPMENT WITH THE LANDLORD.

PLUMBING NARRATIVE:

FIFCTRIC WATER HEATERS LESS THAN 12 KW SHALL HAVE A PERFORMANCE RATING OF 0.9

THE HOT WATER HEATING SYSTEM SHALL BE BY AN ELECTRIC WATER HEATER WITH A RECIRCULATION LINE AND PUMP. THE RE-CIRC PUMP SHALL BE CONTROLLED BY AN AQUASTAT AND TIME CLOCK. THE TIME CLOCK SHALL ENABLE THE PUMP TO OPERATE FROM 6AM TO 8PM (ADJ.) AND SHUT OFF THE PUMP FROM 8PM TO 6AM (ADJ.).

THE HOT WATER HEATING SYSTEM SHALL BE BY WATER HEATER WITH A MAXIMUM OF 6'-0' OF 1/4" TUBING, 3'-0" OF 3/8" TUBING TO LAVATORIES AND 43'-0" OF 1/2" TUBING, 21'-0" OF 3/4" TUBING TO ALL OTHER FIXTURES.

REFER TO THE 2018 IECC SECTION C404 SERVICE WATER HEATING FOR OTHER REQUIREMENTS.

THE PLUMBING CONTRACTOR SHALL REVIEW THE SYSTEM COMMISSIONING SPECIFICATION ON THIS SHEET FOR REQUIREMENTS AND PARTICIPATION IN THE COMMISSIONING PROCESS. FAILURE TO COMPLY OR PARTICIPATE MAY INCUR ADDITIONAL COST TO THE CONTRACTOR

GENERAL ENERGY NOTES:

INSULATION SHALL BE PROVIDED FOR PIPING AS NOTED IN THE TABLE BELOW. PIPING INSULATION SHALL BE PROVIDED FOR RETURN CIRCULATION HOT WATER SYSTEM WITH 1" OR R-4 INSULATION. THE FIRST 8' OF PIPING IN NONCIRCULATING SYSTEMS SERVED BY EQUIPMENT W/O INTEGRAL HEAT TRAPS SHALL BE INSULATED WITH 5" OR R-4 INSULATION.

WATER HEATING EQUIPMENT NOT SUPPLIED WITH INTEGRAL HEAT TRAPS AND SERVING NONCIRCULATING SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING AS ASSOCIATED WITH THE EQUIPMENT.

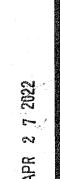
AUTOMATIC CIRCULATING HOT WATER SYSTEMS OR HEAT TRACE SHALL HAVE TIME SWITCHES THAT ARE CAPABLE OF BEING SET TO TURN OFF THE SYSTEM.

MINIMUM PIPE	INSULATIO	ON (inch)	MINIMUM DUCT INSULATION (R)				
	NORMINAL	PIPE DIA.					
FLUID	< 1.5"	≥ 1.5"	UNCONDITIONED SPACE ≥ 5				
STEAM	1-1/2	3-1/2	OUTSIDE BLDG. ENVELOPE ≥ 8				
HOT WATER	1	1-1/2	EXCEPTIONS:				
CHILL WATER or REFRIGERANT	1	1	WHEN LOCATED WITHIN EQUIPMENT. WHEN DESIGN TEMP. DIFFERENCE BETWEEN THE INTERIOR AND				
			EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15°F.				

GENERAL ROOF PLAN NOTES:

AND PROJECT MANUAL, INFORMATION REGARDING WORK OF THE VARIOUS TRADES AND ACCURATELY DETERMINED WITHOUT REFERENCE TO THE FULL SET OF DOCUMENTS.

2. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES ABOVE THE CEILING TO PROVIDE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF AND FUTURE CHANGES IN MECHANICAL EQUIPMENT. CONDUIT AND PIPE TO BE RUN THROUGH TRUSSES. COORDINATE SERVICE AND ACCESS POINTS ABOVE CEILING TO MINIMIZE REQUIRED ACCESS.



REVISIONS:

0

()

2

78227

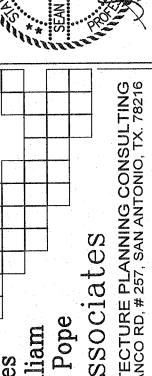
 \succeq

Antonio,

San

Ġ

1089

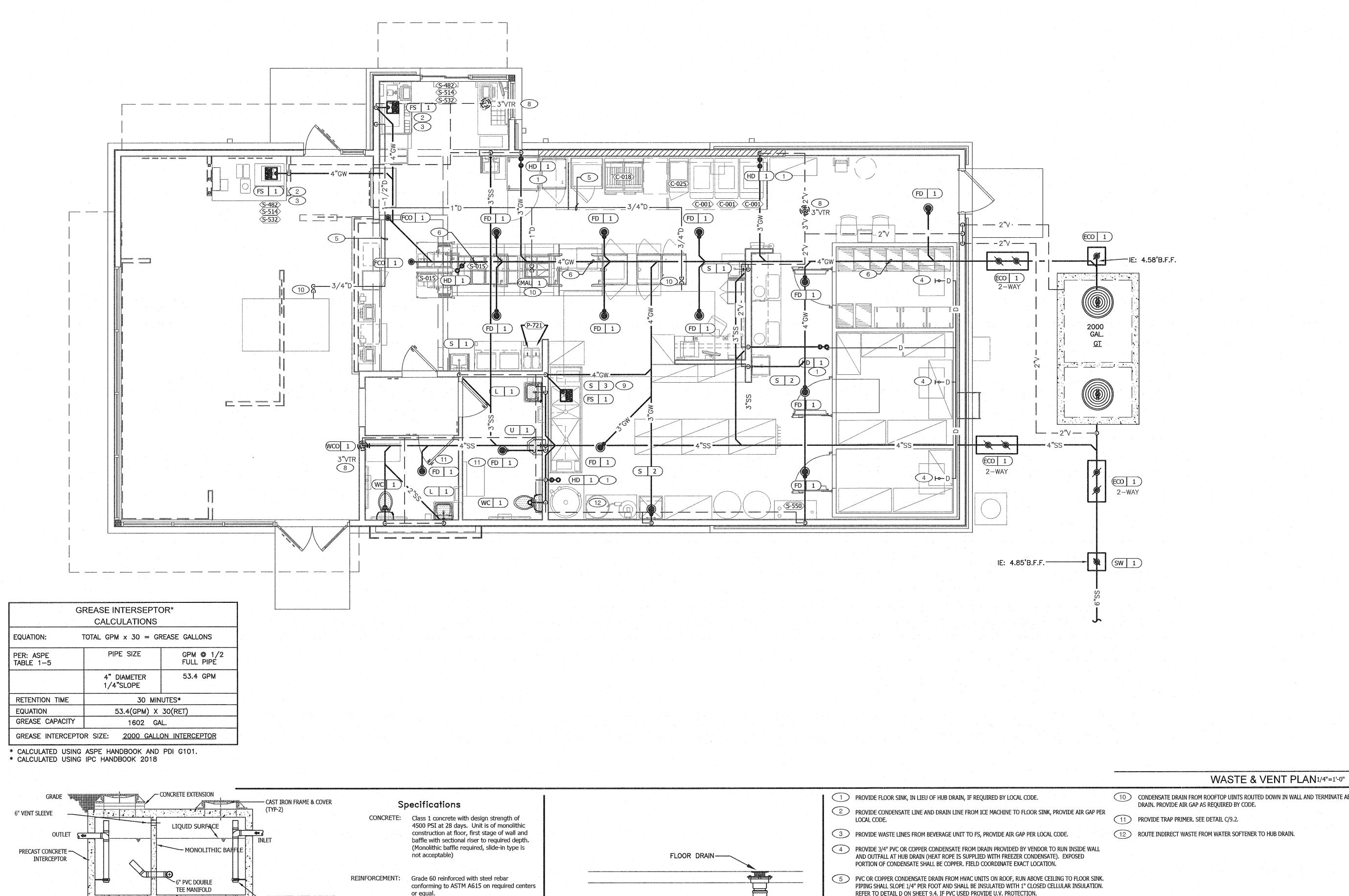


04.27.22 DATE: JOB NO: 37692 DRAWN BY: SHEET NUMBER:

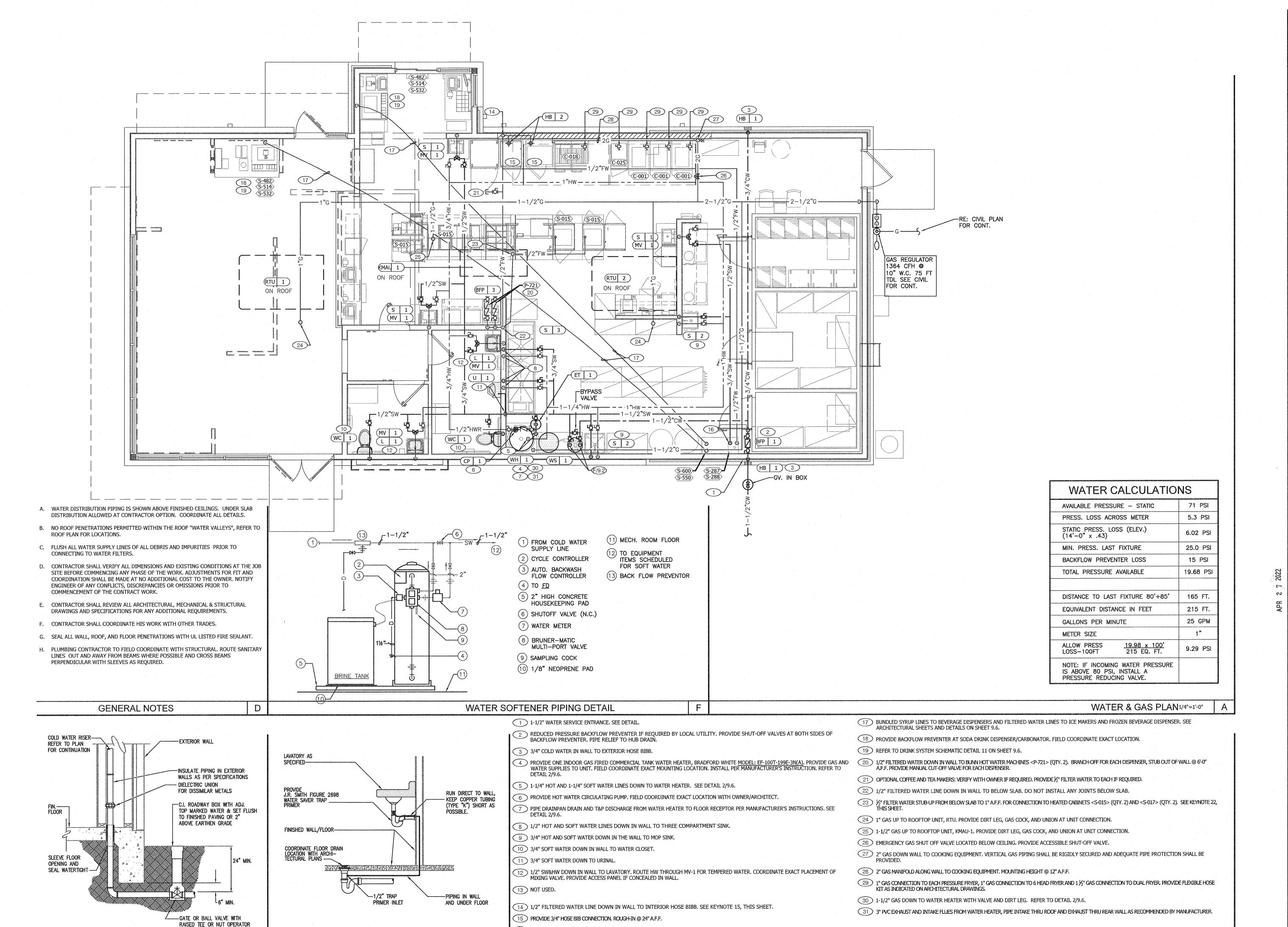


SHEET NUMBER:

REVISIONS:



CONDENSATE DRAIN FROM ROOFTOP UINTS ROUTED DOWN IN WALL AND TERMINATE ABOVE HUB DRAIN. PROVIDE AIR GAP AS REQUIRED BY CODE. 12 ROUTE INDIRECT WASTE FROM WATER SOFTENER TO HUB DRAIN. REFER TO DETAIL D ON SHEET 9.4. IF PVC USED PROVIDE U.V. PROTECTION. GALVANIZED RISER SUPPORT (TYPICAL) **ELEVATION** Manhole frames, covers or grates are 6 ENTIRE RUN OF DRAIN LINES TO INLET OF EXTERIOR GREASE INTERCEPTOR AND OUTLET OF NAMEPLATE INDICATING: manufactured of grey cast iron conforming to INTERCEPTOR TO CONNECTION AT SANITARY MAIN SHALL BE SCHEDULE 40 PVC DWV OR AS REQUIRED MANUFACTURE PHONE 6" PVC DOUBLE TEE MANIFOLD ASTM A48-76 Class 30. Manhole shall be BY THE AUTHORITY HAVING JURISDICTION. NUMBER MODEL DATE nominal 24 inch diameter and be traffic MANUFACTURED 7 NOT USED 8 ROUTE SANITARY 3" VENT UP THROUGH ROOF. COORDINATE WITH STRUCTURAL. TO PUBLIC SEWER SYSTEM MAIN TRUNK SANITARY SEWER FROM KITCHEN WASTE 9 PIPE WASTE LINE(S) FROM SINK INDIRECTLY TO FLOOR SINK. PROVIDE AIR GAP PER LOCAL CODE. - INLET AND OUTLET PIPING PROVIDED BY OTHERS. PLAN VIEW 2000 GALLON GREASE INTERCEPTOR N.T.S. D **KEY NOTES** COMBINATION WASTE/VENT FLOOR DRAIN C



16 3/4" SOFT WATER LINE DOWN IN WALL TO WATER FILTERS <S-287> AND <S-288>. SEE KEYNOTES 22 AND 26, THIS SHEET.

TRAP PRIMER DETAIL N.T.S.

Apr 27, 2022 – 3:19pm

WATER ENTRY DETAIL N.T.S.

KEY NOTES B

REVISIONS:

GAS

⊘⊘

PLUMBING

6807 Military Dr W, San Antonio, Tx. 78227

Pope

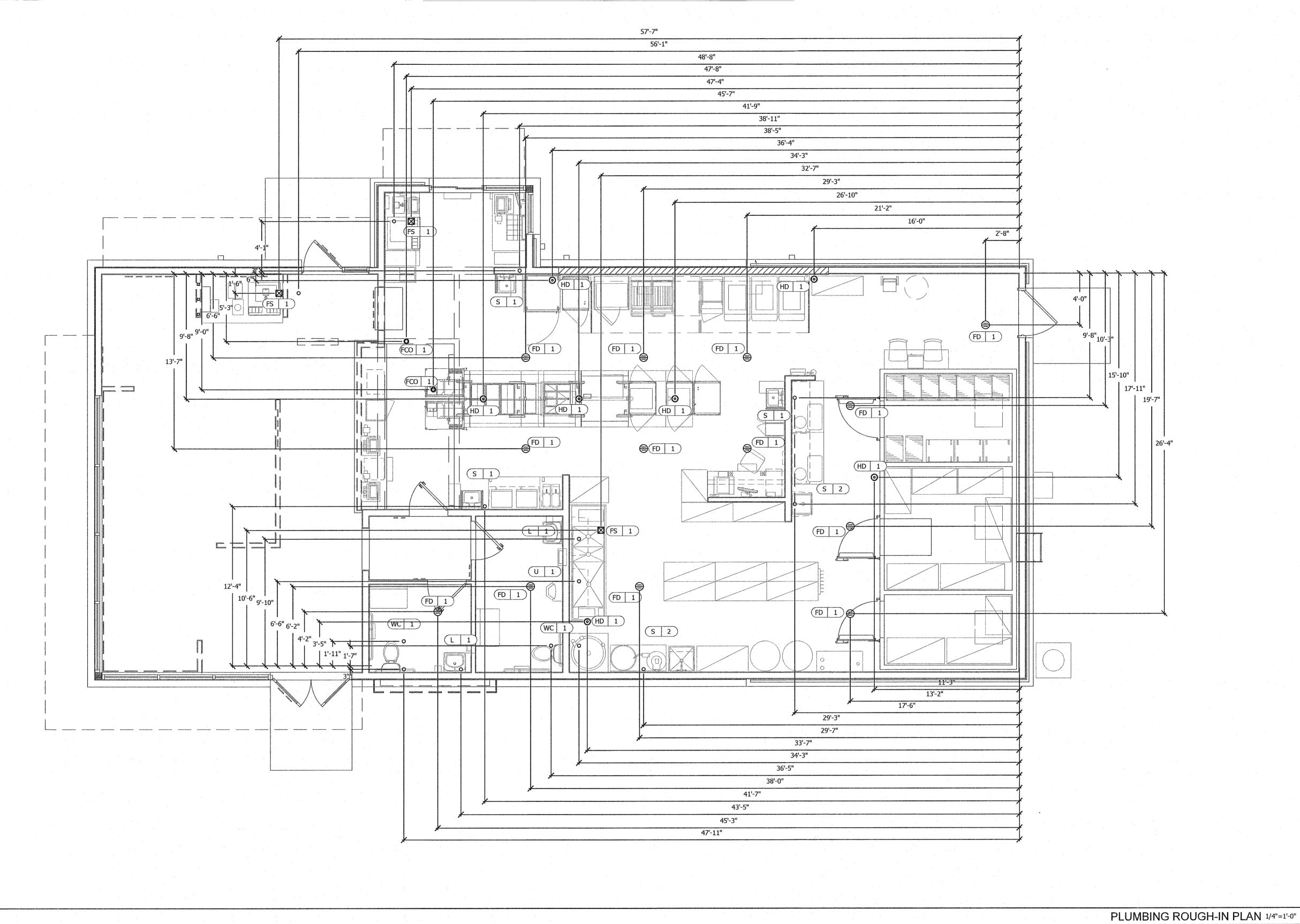
& ASSOCIATES

ARCHITECTURE PLANNING CONSI
7400 BLANCO RD, # 257, SAN ANTONIO, T

DATE:

JOB NO: DRAWN BY:

SHEET NUMBER:



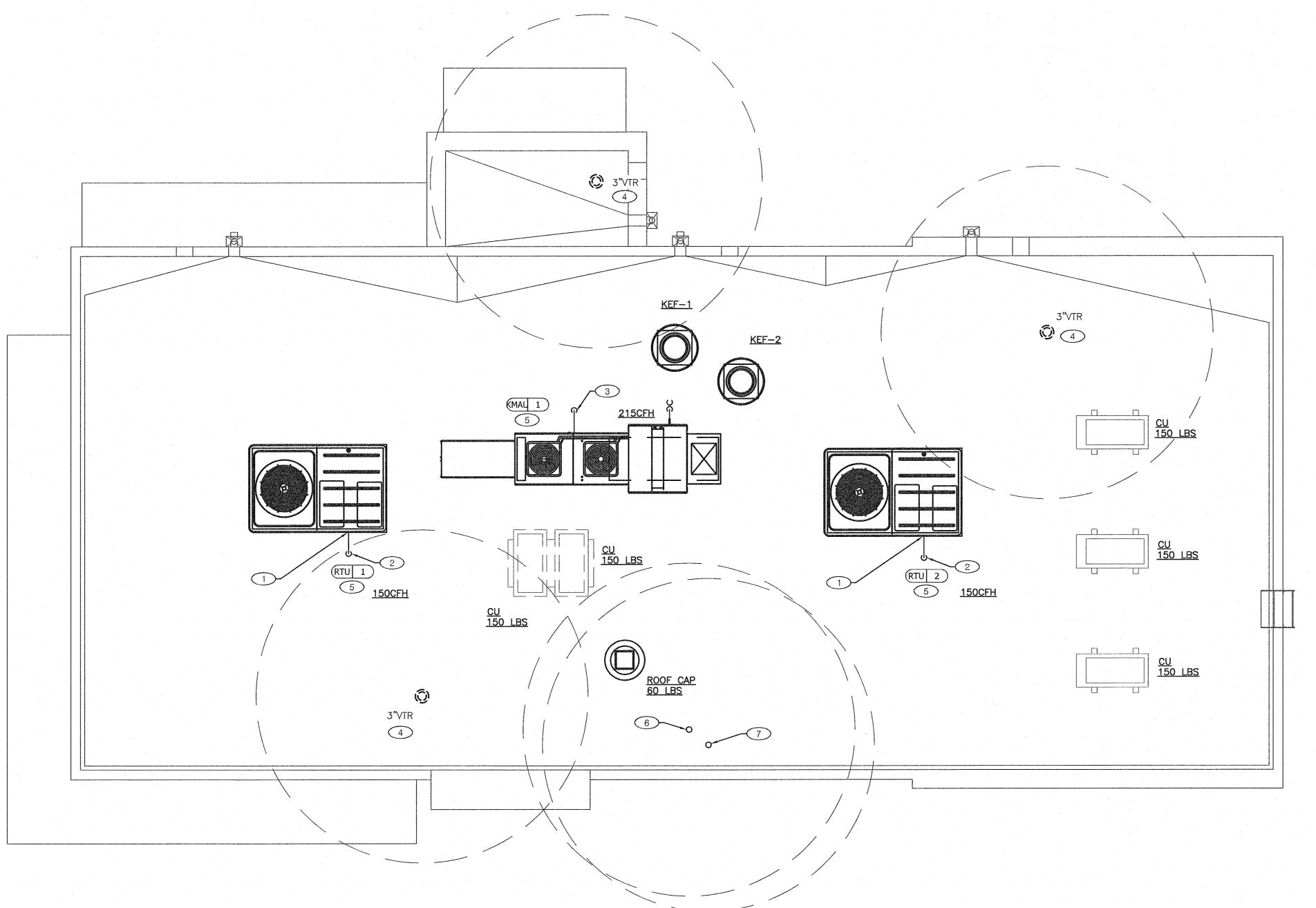
HOT WATER TYPE ELEVATION **EQUIPMENT ITEM** TYPE ELEVATION EQUIP # EQUIPMENT ITEM REMARKS EQUIP # REMARKS GENERAL NOTES: COLD WATER SD 1 SLOT DRAIN FCO 1 FLOOR CLEAN OUT FLOOR MOUNT ALL DIMENSIONS TO FLOOR SINKS, FLOOR DRAINS AND HUB DRAINS ARE TO FLUSH W/ FINISH FLOOR CENTER OF FIXTURE. ⊗ HOT WATER RETURN FLOOR MOUNT (WC 1) WATER CLOSET CW +29" A.F.F ALL FIXTURES ADA COMPLIANT (FD | 1) | FLOOR DRAIN 2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THIS DATA (WCO 1) WALL CLEAN OUT +12" A.F.F. COORDINATE WITH HAND SINK (S-1) (FS 1) FLOOR SINK FLOOR MOUNT G GAS ON THE LOCATION OF ALL PLUMBING ROUGH-INS WITH INFORMATION CW + 20" A.F.F. | COORDINATE w/ SHEETS A4.0, A4.1 (WH 1) WATER HEATER (HB 1) HOSE BIB (EXTERIOR) PROVIDED ON THE ARCH AND STRUCTURAL DRAWINGS, AND THE EQUIPMENT ACTUALLY SUPPLIED AND TO CONFIRM THE CORRECTNESS OF ANY FLOOR DRAIN + 24" A.F.F. | COORDAINTE w/ EQUIP. <C-134> G +15" A.F.F. (HB 2 HOSE BIB (INTERIOR) WH 1 WATER HEATER DIMENSIONS INDICATED HEREIN. FLOOR MOUNT (HD | 1) | HUB DRAIN FLOOR SINK L 1 LAVATORY TW +20" A.F.F. | VERIFY w/ ADA REQUIREMENTS WATER HEATER O HUB DRAIN CW/HW (L | 1) LAVATORY WASTE LINE +16-1/2" A.F.F. VERIFY w/ ADA REQUIREMENTS PRESSURE FRYER - 8 HEAD (Qty. 2) G +12" A.F.F. OFD 1 ROOF OVERFLOW DRAIN LEADER SW +12" A.F.F. DISCHARGES at BUILD. EXTERIOR WASTE OUTLET SINGLE OPEN FRYER - OPTIONAL G +12" A.F.F. SW CONTINUES BELOW SLAB (RD | 1) | ROOF DRAIN LEADER C-018 DUAL OPEN FRYER G +12" A.F.F. Φ FLOOR CLEANOUT TW | +18" A.F.F | RIM OF LAV @ +2'-8" A.F.F. (S | 1) HAND SINK PRESSURE FRYER - 6 HEAD G +12" A.F.F. (S | 2) MOP SINK W -6" A.F.F. RECESSED IN FLOOR O WALL CLEANOUT (-721) HOT WATER MACHINE (Qty. 2) CW/HW | +36" A.F.F FW +48" A.F.F. SITS ON COUNTER TOP (S 2) MOP SINK FAUCET \$-015 1/2 -HEIGHT HEATED CABINET (Qty. 2) S 3 3-COMPARTMENT SINK FW | + 1" A.F.F. | STUB UP FROM BELOW SLAB O FILTERED WATER W +19" A.F.F FULL-HEIGHT HEATED CABINET (Qty. 2) (S 3) 3-COMPARTMENT SINK FAUCET CW/HW +38" A.F.F FW | + 1" A.F.F. | STUB UP FROM BELOW SLAB ♦ VENT UP FROM UNDER SLAB **€-287** WATER FILTER SYSTEM S 4 PREP SINK W +19" A.F.F SUPPLIED / INSTALLED BY PEPSI **§-288** WATER FILTER SYSTEM CW +94" A.F.F. INLET / OUTLET TO FILTER by G.C. S 4 PREP SINK FAUCET CW/HW | +38" A.F.F WATER LINE THRU FLOOR. PLUMBING ROUGH-IN NOTES PLUMBING ROUGH-IN SCHEDULE SYMBOL LEGEND C

REVISIONS:

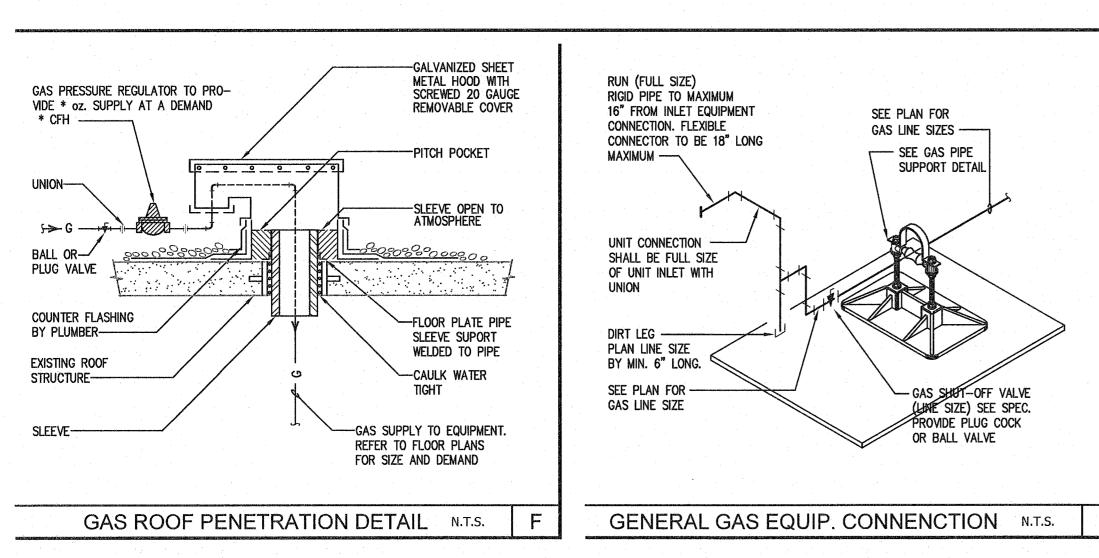
Rockgate

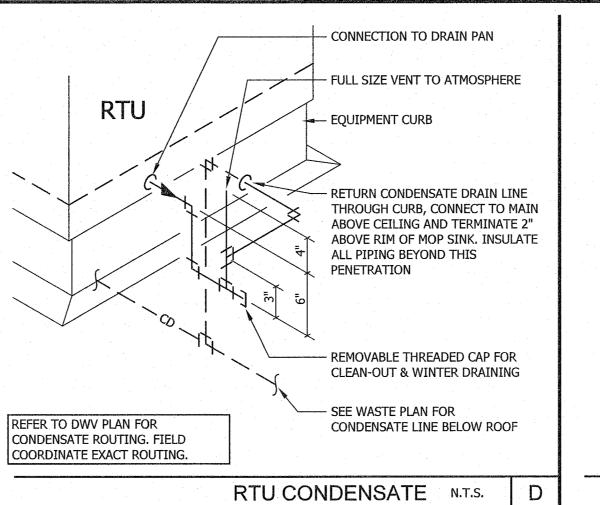
WWW. San Antonio, Tx. 78227

SHEET NUMBER:



GAS LOAD SUMMARY (10"W.C.)								
2018 IFCC TABLE 402.4	l(1)	0.3 IN.	W.C. F	PRESSURI	E DROP			
APPLIANCE	QTY.	CONN. SIZE	CFH EA	TOT. CFH	MIN. PRES.			
GWH1	1	_	199	199	4"W.C.			
RTU-1	1	3/4"	150	150	5"W.C.			
RTU-2	1	3/4"	150	150	5"W.C.			
KMAU-1	1	1"	215	215	5"W.C.			
PRESSURE FRYER <c001></c001>	3	1"	100	300	4"W.C.			
OPEN FRYER <c018></c018>	1	1.5"	210	210	7"W.C.			
6-HEAD FRYER <c025></c025>	1	1"	140	140	7"W.C.			
TOTAL CFH		-		1364				
TOTAL DEV. LENGTH				75'				
PIPE SIZE				2.5"				





A. WATER DISTRIBUTION PIPING IS SHOWN ABOVE FINISHED CEILINGS. UNDER SLAB DISTRIBUTION ALLOWED AT CONTRACTOR OPTION. COORDINATE ALL DETAILS.

NO ROOF PENETRATIONS PERMITTED WITHIN THE ROOF "WATER VALLEYS", REFER TO B. ROOF PLAN FOR LOCATIONS.

FLUSH ALL WATER SUPPLY LINES OF ALL DEBRIS AND IMPURITIES PRIOR TO C. CONNECTING TO WATER FILTERS.

D. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF THE CONTRACT WORK.

CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.

F. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.

G. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.

H. PLUMBING CONTRACTOR TO FIELD COORDINATE WITH STRUCTURAL, ROUTE SANITARY LINES OUT AND AWAY FROM BEAMS WHERE POSSIBLE AND CROSS BEAMS PERPENDICULAR WITH SLEEVES AS REQUIRED.

GENERAL PLUMBING NOTES

ROOF PLAN1/4"=1'-0" 1 PROVIDE NATURAL GAS CONNECTION TO HVAC ROOFTOP EQUIPMENT. FIELD COORDINATE EXACT

LOCATION. INSTALL PER MANUFACTURER'S INSTRUCTION. 2 1"NG DOWN INTO BUILDING. SEAL PENETRATION AS REQUIRED. FIELD COORDINATE EXACT PENETRATION LOCATION.

3 1-1/2" NG DOWN INTO BUILDING. SEAL PENETRATION AS REQUIRED. FIELD COORDINATE EXACT

4 PLUMBING VENTS MUST BE A MINIMUM OF 10' FROM ANY HVAC SUPPLY/INTAKE EQUIPMENT. FIELD

VERIFY EXACT LOCATION. EXTEND VENT TO A HEIGHT ABOVE PARAPET WALL.

5 REFER TO PLUMBING PLAN 9.1 FOR CONDENSATE DRAINAGE OF ROOFTOP EQUIPMENT.

6 GAS WATER HEATER INTAKE. SEE ARCHITECTURAL SHEETS FOR BRACING DETAIL.

7 GAS WATER HEATER EXHAUST FLUE SHWWL BE MIN. 6" HIGHER THAN INTAKE-MAINTAIN MIN. 10'-0" FROM NEAREST POINT OF RTU INTAKE. SEE ARCHITECTURAL SHEETS FOR BRACING DETAIL.

KEY NOTES

Charles
William
Pope

& ASSOCIAtes
ARCHITECTURE PLANNING CONSULTI
7400 BLANCO RD, # 257, SAN ANTONIO, TX. 78

MINITED/INTEC Rockgate 6807 Military Dr W, San Antonio, Tx. 78227

D L M B N G R O O F D L A N

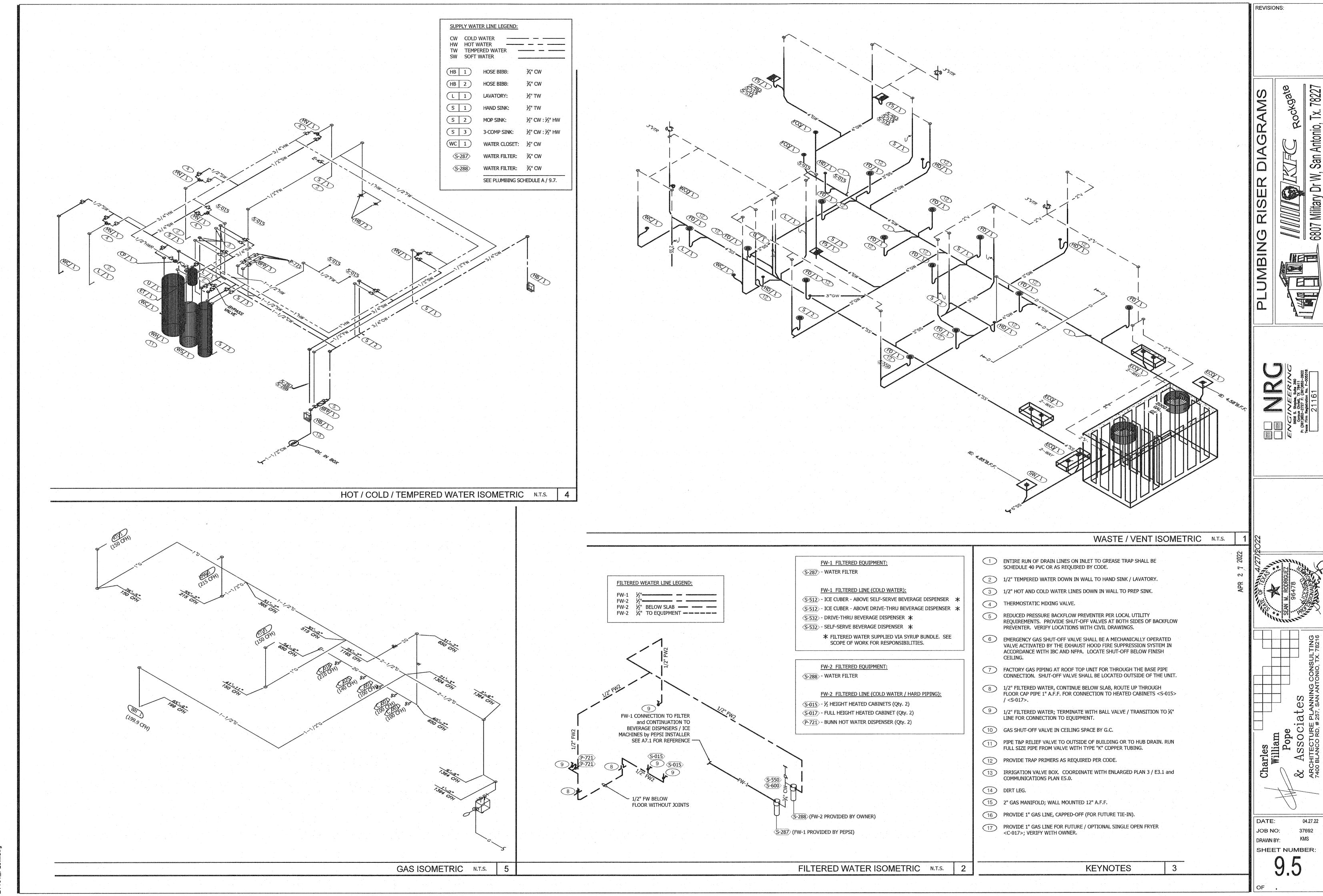
SHEET NUMBER:

04.27.22

DATE:

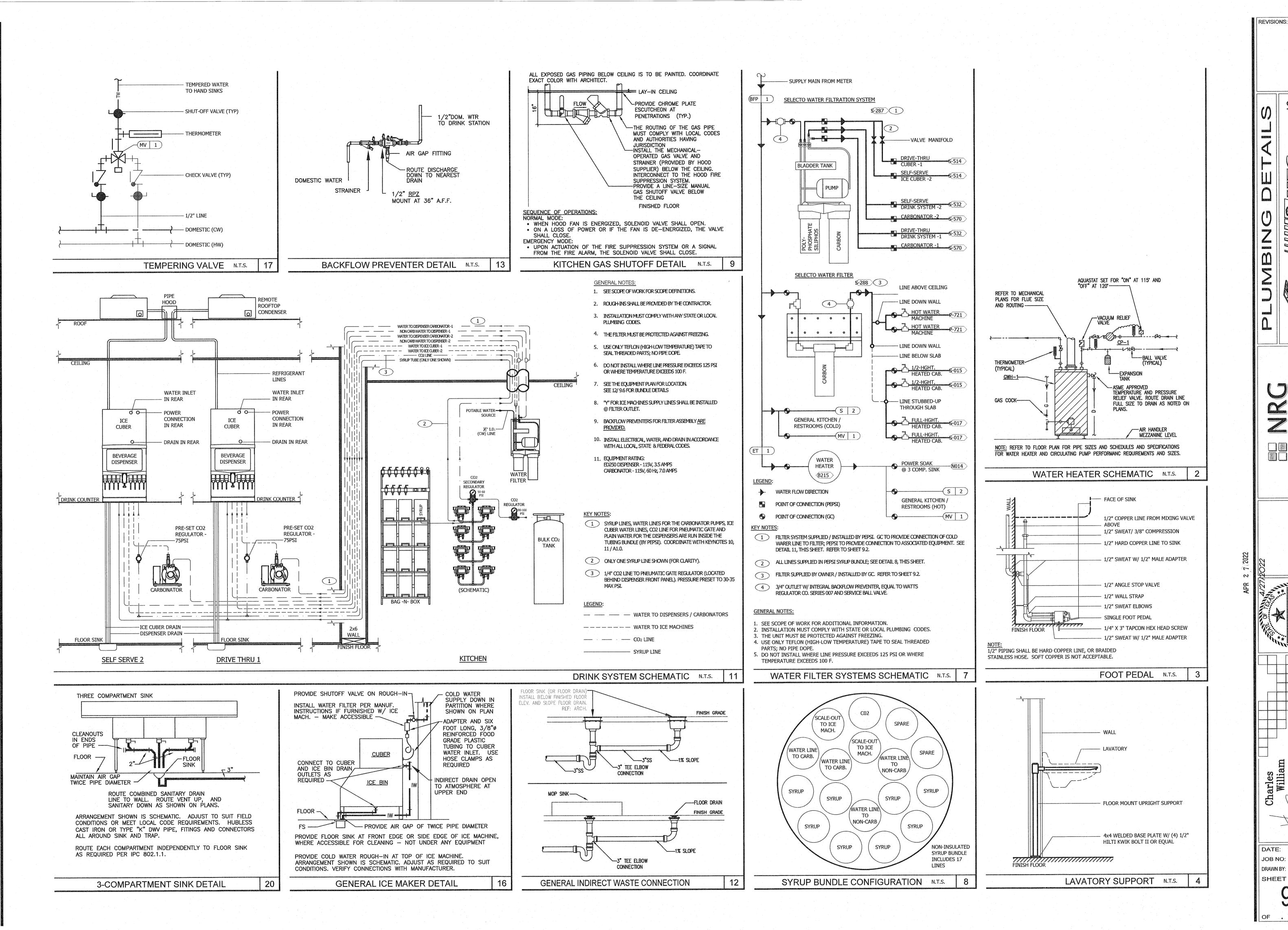
JOB NO:

DRAWN BY:



04.27.22

37692



04.27.22

37692

DATE:

JOB NO:

DRAWN BY:

SHEET NUMBER

78227

Dr W, San Antonio,

MANUFACTURER / MODEL NUMBE

WILKINS (ZURN) MODEL 740

ARMSTRONG ASTRO SERIES

J.R. SMITH / MODEL: 3120

Josam / Model: 56000

WADE / MODEL: 6000Z

ZURN / MODEL: Z-1400

WATTS SERIES DET

AMTROL SERIES ST

WILKINS SERIES WXTP

WADE / MODEL: 6000Z

ZURN / MODEL: Z-1400

ZURN / MODEL: FD-2210

Josam / Model: 30003-A

Josam / Model: JPFS4-PVC ZURN / MODEL: FD-2370-PV4-DS-F

WADE / MODEL:1103

PARK GT1-2000

WOODFORD / MODEL: 19

WOODFORD / MODEL: 24

JOSAM / MODEL: 88213

WADE / MODEL: 2453EF

ZURN / MODEL: Z-1019

LAVATORY: KOHLER / MODEL: K-2084

FAUCET: ZURN / MODEL: Z82200-XL-3M

SLOAN / MODEL: EAF-275-ISM

McGUIRE / MODEL: 8872CF

HANDI LAV-GUARD /

MODEL: 102

HYDROTEK SERIES HBL

JOSAM / MODEL: 21500

WADE / SHOKSTOP

ZURN / SHOKTROL

JOSAM / MODEL: 75000

AM, STD, "ALLBROOK"/MODEL:6063.051

KOHLER "DEXTER" / MODEL:K-5016-ET

KOHLER "HIGHLINE" / MODEL: K-3544-T

CRANE "ECONMISER" / MODEL: 3H839

MODEL: EF-100T-199E-3N(A)

JOSAM / MODEL: 58510

WADE / MODEL: 8560E

ZURN / MODEL: Z-1446-BP

BRADFORD WHITE /

CULLIGAN / CTM 150

PLUMBING SCHEDULE

LAWLER SERIES 61 LEONARD SERIES 210 JOSAM / MODEL: 21500

Josam / Model: 56000

2

San Antor

S L

DATE: 04.27.22 JOB NO: 37692 DRAWN BY: SHEET NUMBER:

1. SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.

2. ALL DRAWN WATER & GAS LINES SHALL BE KEPT TIGHT TO THE UNDERSIDE OF EQUIPMENT & SECURED IN PLACE.

3. CONTRACTOR SHALL VERIFY THE LOCATION OF THE SANITARY SEWER ON THE SITE PLAN AND SHALL REVISE THE SEWER SYSTEM AS REQUIRED.

4. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS IN RESTROOMS, WHERE REQUIRED BY CODES. PROVIDE DEEP SEAL TRAPS FOR FLOOR DRAINS WITHOUT TRAP PRIMERS.

5. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND THE OWNERS REPRESENTATIVE PRIOR TO

6. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE INSTALLED BEHIND AN ACCESS PANEL.

7. ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKE.

8. PROVIDE GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.

9. INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE LINES TO BE CHROME PLATED.

10. PROVIDE A LEVER HANDLE GAS SHUT-OFF VALVE IN THE BRANCH PIPING OF EACH APPLIANCE OR PIECE OF EQUIPMENT, FOR EACH APPLIANCE INSTALL QUICK DISCONNECT, FLEXIBLE PIPE WHEN ALLOWED BY CODE AND RESTRAINING DEVICE FURNISHED BY OWNER. PROVIDE PRESSURE REDUCING VALVES AT EACH PIECE OF EQUIPMENT OR APPLIANCE. IF GAS PRESSURE GREATER THAN 10"/wc IS USED DOWNSTREAM FROM THE GAS METER.

11. ALL VALVES, UNIONS, ETC. SHALL BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.

12. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR PLUMBING ROUGH-IN SCHEDULE & FOR ADDITIONAL WORK TO BE FURNISHED & INSTALLED BY CONTRACTOR. ALL ROUGH-IN PLUMBING AND FINAL CONNECTIONS TO KITCHEN EQUIPMENT SHALL BE MADE BY THE CONTRACTOR U.O.N.

13. REFER TO MECHANICAL SHEETS FOR HVAC AND HOOD PLUMBING REQUIREMENTS.

14. ALL GAS LINES SHALL BE SUPPORTED.

15. ALL FLOOR SINKS AND FLOOR DRAINS IN TRAFFIC AREAS SHALL BE INSTALLED FLUSH TO FLOOR SURFACE.

16. PROVIDE WATER HAMMER ARRESTOR FOR ALL HAND SINKS AND URINAL WATER LINES.

17. PROVIDE AIR GAPS FOR INDIRECT DRAINS AS REQUIRED BY CODE, AIR GAP SHALL BE MINIMUM 2 TIMES THE DIAMETER OF THE INDIRECT DRAIN.

18. PRIOR TO COMMENCING WORK ON THIS PROJECT, VERIFY DEPTH, SIZE, LOCATION AND CONDITION OF ALL EXISTING UTILITIES IN FIELD. SHOULD CONDITIONS EXIST OTHER THAN THOSE INDICATED WHICH WOULD CAUSE THE DESIGN TO BE ALTERED, CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY.

19. COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OR INTERFERENCES, CONTRACTOR SHALL REVIEW ARCHITECTURAL AND EQUIPMENT SHEETS.

20. FURNISH & INSTALL ALL BACKFLOW PROTECTION DEVICES REQUIRED BY AGENCIES HAVING JURISDICTION. BACKFLOW DEVICES REQUIRING TESTING SHALL BE INSTALLED NO HIGHER THAN 5'-0" A.F.F.

21. PROVIDE CONDENSATE DRAIN FROM A/C UNITS TO APPROVED DRAIN, GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.

22. THE OWNER OR KITCHEN EQUIPMENT SUPPLIER MAY SUBSTITUTE EQUIPMENT OR THE EQUIPMENT MAY VARY FROM WHAT IS SHOWN. THEREFORE, VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION, FAILURE TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION DIRECTLY UPON THE CONTRACTOR.

23. ALL WATER LINES SHALL BE RUN OVERHEAD U.O.N.

24. ALL WATER LINES SHALL BE FLUSHED PRIOR TO CONNECTING ANY FIXTURES OR EQUIPMENT.

25. PROVIDE ESCUTCHEON PLATES AND SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, CEILINGS, AND FLOORS. DO NOT USE CAULK OR EXPANDING FOAM FOR SEALANT.

	070			DRAIN		COLD	WATER	НОТ	WATER
FIXTURE	QTY.	F.U.	SAN. WASTE	GREASE WASTE	TOTAL F.U.	F.U. CW	TOTAL CW	F.U. HW	TOTAL HW
WATER CLOSET (WC-1)	2	4	8		8	2	6		
urinal (U-1)	1	2	2		2	5	5	-	
LAVATORY (L—1)	2	1	2		2	1.5	3	1.5	3
HAND SINK (S-1)	3	2	6		6	1.5	4.5	1.5	4.5
3-COMP. SINK (S-3) **	1					3	3	3	3
HOSE BIBB (HB-1) (HB-2)	3					2.5/1	4.5		
WATER FILTER <\$-287>	1					1	1		
WATER FILTER <s-288></s-288>	1					1	1		
FLOOR DRAIN (FD-1)	11	2	4	18	22				
HUB DRAIN (HD-1)	7	2	2	12	14			5	
FLOOR SINK (FS-1)	2	6		12	12			-	
MOP SINK (S-2)	2	2		4	4	2.25	6.75	2.25	6.75
TOTAL			24	46	70		34.75		17.25

USE 1-1/2" COLD WATER SERVICE 34.75 FU = 24.90 GPM17.25 FU = 18.80 GPM

USE 1" HOT WATER SERVICE

GREASE WASTE = 46 WEU USE 4" SANITARY (GREASE)

** FIXTURE HAS INDIRECT WASTE TO FLOOR SINK.

GENERAL NOTES

	PDI SIZE "A" -	ST M/	STALL PER PDITANDARDS AND ANUFACTURER'S STRUCTIONS	IF HO LONG, IF BR PROVI	RIZ P ANO DE	OR COLD WATER SUPPLY CONTAL BRANCH IS LESS THAN 2 ROVIDE ONE WHA AT END OF LIN CH IS GREATER THAN 20' LONG, ANOTHER WHA IN MIDDLE, EACH OR HALF THE FIXTURE UNITS MULTIPLE FIXTURES	ΝE	7			
•	PDI	PIPE	FIXTURE	SIOUX CHEIF		FIXTURE UNIT TABULATION					
	SIZE	SIZE	UNIT LOAD	MODEL No. *	L	FIXTURE	COLD	НОТ			
٠.	A	1/2"	1-11	652-A		652-A		VALVE WATER CLOSET	10		
	В	3/4"	12-32	653-B		TANK WATER CLOSET	5				
	C.	1"	33-60	654-C		URINAL.	5				
	D	1-1/4"	61-113	655-D		LAVATORY/SINK	1.5	1.5			
	E	1-1/2"	114154	656-E		JANITOR'S SINK	3	3			
	F	2"	154-330	657-F		SHOWER/BATHTUB	2	2			

PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH- 201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESS PANEL FOR SERVICING OR REPLACEMENT, WHERE REQUIRED.

PLUMBING FIXTURE SUMMARY

		Y.B.	YARD BUX								
	-	R.D.	ROO	F DRAIN							
		A.P.	ACC	ESS PANE	ΞL	7					
		V.T.R.	VEN	T THRU F	ROOF			• •			
		V.B.F.	VEN	T BELOW	FLOOR			-			
		U.T.R.	UP	THRU RO	OF		.				
		V.C.P.	VITR	IFIED CLA	Y PIPE	•	İ				
ayyayya gara gara dagayan garay an ayya an abar ay an ay an a da an a da an a da an		C.I.	CAS	T IRON							
		(N)	NEW	<i>I</i>				<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			
		(E)	EXIS	EXISTING							
		F.D.	FLO	FLOOR DRAIN							
<u> </u>	1	H.D.	HUE	DRAIN							
	1	OFD	OVE	OVERFLOW DRAIN							
		F.S.		OR SINK							
		G.L.	GAS	LINE	-						
		A.F.F.	ABO	VE FINISH	HED FLO	OOR				-	
(X-X 0000)			PLU	MBING E	QUIPMEI	NT DES	IGNATIO	N			
(XXX)			1 '	HEN EQU						N.	
ss		SS		OR WAS							
GW		GW	SOIL	OR WAS	STE (GF	REASE \	WASTE)	/WASTE	ST	UB	
G		G	GAS	/ GAS	STUB						
CW		CW	COL	D WATER	/ CW	STUB			ing parameter and a second stand		
HW		HW	НОТ	WATER	/ HW S	STUB	***************************************	na nazvor nakonakizone			
— HWR —		H.W.R.	НОТ	WATER F	RETURN						
		٧.	SAN	ITARY VEN	VT						
SD		S.D.	STO	RM DRAIN	l .						
CD		C.D.	CON	DENSATE	DRAIN						
Φ		F.C.O.	FLO GRA	OR CLEAN DE	O TUON	R CLEA	NOUT .	то			
 	1. \	W.C.O.	WAL	L CLEANC)UT						
FW		FW	FILT	ERED WAT	TER						
TW		TW	PRE	MIXED TE	MPERA	TURE W	/ATER				
+-		H.B.	HOS	E BIBB							
─ ⋈		S.O.V.	SHU	T-OFF G	ATE VA	LVE					
	1 :	s.o.c.	SHU	T-OFF G	AS COC	CK	Agency Superior States				
<u> </u>	1	C.V.	CHE	CK VALVE							
\$	P	T.R.V.	PRE	SS-TEMP	ERATUR	E RELI	EF VAL	VE .			
		B.V.	BALI	L VALVE							
		C.W.	COL	D WATER	BELOW	GRAD	E				
O		E.C.O.	EXT	ERIOR CL	EAN OL	JT					
		BFP	BACK FLOW PREVENTER								
	1	FU	FIXTURE UNIT								
	<u> </u>										
			P	LUMBI	NG L	EGE	ND			С	
						· .					
				DRAIN		COLD	WATER	НОТ	WAT	ER	
FIXTURE	QTY.	F.U.	SAN. WASTE	GREASE WASTE	TOTAL F.U.	F.U.	TOTAL	F.U.	TO	ΓAL	
					<u> </u>		<u> </u>	Γ.			

DESCRIPTION

YARD BOX

ABBREV.

Y.B.

SYMBOLS

HOT | TEMP'D | WASTE | WATER

WATER | WATER | FU

FIXTURE

DOUBLE CHECK

BFP 1 BACKFLOW PREVENTER

BACKFLOW PREVENTER

(DN | 1) NOZZLE

(ECO 1) CLEANOUT

(ET 1) TANK

(FCO 1) CLEANOUT

(FD | 1) FLOOR DRAIN |

(FS | 1) | FLOOR SINK

GI 1 INTERCEPTOR

(SW | 1) SAMPLE WELL

(HB | 1) HOSE BIBB

(HB 2 HOSE BIBB

(HD | 1) HUB DRAIN

L 1 LAVATORY

(MV 1) VALVE

RD 1 ROOF DRAIN

OFD 1 OVERFLOW DRAIN

(S | 1) HAND SINK

S 2 MOP SINK

S 3 3-COMP.

S 4 SINK

(UR 1)

(SA 1) ARRESTOR

(WC 1) WATER CLOSET

(WCO 1) CLEANOUT

(WH 1) HEATER

(WS 1 SOFTENER

4"

VENT

SOFŤ

1-1/2"

3/8"

3/8"

1/2"

1/2"

1/2"

1/2"

1/2"

3/4"

l-1/4"

1-1/2"

1/4"

1-1/2"

1-1/2"

2"

INDIRECT

INDIRECT

INDIRECT

1/2"

1/2"

1/2"

1/2"

1/2"

WATER

DESCRIPTION

HOT WATER CIRCULATOR, IN-LINE, LEAD-FREE BRONZE CIRCULATOR. PROVIDE 1/2" SWEAT CONNECTION. 1

PHASE, 85 WATTS, 115 VOLTS, 1/25HP. PROVIDE WITH AQUASTAT AND TIMER, SWITCHES PUMP ON AT 115°F, AND GRUNDFOS - UM15-10B5

REDUCED PRESSURE ZONE BACKFLOW PREVENTER, CAST BRONZE CONSTRUCTION WITH

DOUBLE CHECK VALVE ASSEMBLY WITH ATMOSPHERIC VENT, AND STRAINER. PIPE VENT DISCHARGE DRAIN LINE TO NEAREST DRAIN WITH PROPER AIR GAP. DEVICE MUST CONFORM ASSE 1015.

DOUBLE CHECK VALVE ASSEMBLY WITH ATMOSPHERIC VENT, AND STRAINER.

PIPE VENT DISCHARGE DRAIN LINE TO NEAREST DRAIN WITH PROPER AIR GAP. DEVICE MUST CONFORM ASSE 1022.

CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER.

EXPANSION TANK, STEEL, EXPANSION MEMBRANE 150 PSI, 160° F, 12 GALLON CAPACITY. MOUNT EXPANSION TANK WITH CHECK & SHUT OFF VALVES ABOVE WATER HEATER.

CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED

IF PVC OR ABS DRAINS ARE USED, SCHEDULE 80 PVC DRAIN PIPE SHALL BE USED FOR THE FIRST 10'-0" FROM THE DRAIN

VEHICULAR TRAFFIC. REFER TO CIVIL DRAWINGS.

WALL FAUCET WITH INTEGRAL VACUUM BREAKER

MAX PRESSURE OF 125 PSI

SEE 4 / 9.6 FOR LAV SUPPORT DETAIL.

PVC 12" SQUARE FLOOR SINK, 8" DEEP, WITH ALUMINUM OR PVC DOME STRAINER AND LOOSE SET PVC SLOTTED TOP GRATE. SET FLOOR SINK LIP FLUSH WITH FLOOR TILE.

MINIMUM 2000 GALLON PRECAST CONCRETE EXTERIOR GREASE INTERCEPTOR PER LOCAL

PARK No. SWB-2, CLASS II CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS.

DRAIN WITH TAILPIECE, LOOSE KEY COMPRESSION, ANGLE STOP VALVES WITH

RISERS AND ESCUTCHEONS. P-TRAP: 1-1/4" 17 GAUGE TUBULAR CHROME

ESCUTCHEON, CONCEALED ARM CARRIER WITH STANCHIONS TO FLOOR, AND

TRUEBRO. HANDI LAV-GUARD: INSULATION KIT FOR WATER AND WASTE PIPES.

PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND

FAUCET: SINGLE HOLE SUPPLY, HARD WIRED, BATTERED SENSOR OPERATED FAUCET | McGUIRE / MODEL: 155A

WITH "Y" STRAINER FILTERED SOLENOID VALVE AND 0.5 GPM AERATOR. TRIM: GRID McGUIRE / MODEL: 2165CCLK

REQUIREMENTS. PROVIDE CLEANOUTS AND MANHOLES UP TO GRADE SUITABLE FOR

FREEZELESS WALL FAUCET WITH INTEGRAL VACUUM BREAKER, BRONZE CASING MAX PRESSURE OF 125 PSI, SLOPE HOSE BIBB TO DRAIN TO EXTERIOR, INSULATE PIPES IN WALL

CAST IRON DEEP SEAL P-TRAP WITH FUNNEL, NO-HUB OUTLET AND BRASS GASKETED CLEANOUT PLUG.

WHITE VITREOUS CHINA, WALL HUNG, WITH CONCEALED ARMS SUPPORT, SINGLE HOLE, ADA ACCESSIBLE. FLAT GRID STRAINER.

THERMOSTATIC, 125 PSI SET POINT, BRONZE BODY, STAINLESS STEEL PISTON LINER, CHECK VALVES SIZE PER PIPE CONNECTIONS.

ST IRON DOME, 2" PVC STANDPIPE AND UNDER-DECK CLAMP

AST IRON DOME, SUMP RECEIVER AND UNDER-DECK CLAMP.

AUCET W/FOOT VALVE PER DETAIL 3 / 9.6.

AERO MANUFACTURED MOP SINK (1), 3MP27276. 30" x 30" x 6", FURNISHED WITH WALL PANELS.

SINK, FAUCET, DRAIN & PRE-RINSE KIT

SINK, FAUCET, DRAIN & PRE-RINSE KIT AERO MANUFACTURED PREP SINK LB-1616.

INCLUDES BASE, FAUCET & FOOT PEDAL CONTROL

WHITE VITREOUS CHINA WALL HUNG FLUSH VALVE, 0.5 GPF, FLOOR MOUNTED URINAL CARRIER

PLUG, WITH STAINLESS STEEL ACCESS COVER.

INTEGRAL DIAGNOSTICS.

SEE TO DETAIL F/9.2

DUCO CAST BRONZE BODY AND FLASHING COLLAR WITH COMBINED FLASHING CLAMP AND

DUCO CAST BRONZE BODY AND FLASHING COLLAR WITH COMBINED FLASHING CLAMP AND

1: STAINLESS STEEL HAND SINK, WALL HUNG, INCLUDES A 6" GOOSENECK STAINLESS.

STAINLESS STEEL CASING WITH STAINLESS STEEL BELOW, PRECHARGED WITH NITROGEN. SIZED PER PDI-WH201

CAST IRON CLEANOUT TEE WITH INLET/OUTLET SPIGOT AND THREADED BRASS

GAS FIRED WATER HEATER, 98.5% THERMAL EFF., 199,000 BTUH INPUT, 100 GAL. STORAGE TANK, 239 GPH @ 100 DEG. RISE REC. RATE, 3" PVC FLUE & AIR INTAKE, ASME RTD TEMP. & PRESS. REL. VALVE, ELECTRONIC IGNITION SYSTEM, ELETRONIC CONTROLS AND

BY VENDOR (CONTACT CHARLES BELL @ CULLIGAN) CBELL@CULLIGAN.COM, (480) 686-4941

WHITE VITREOUS CHINA FLOOR MOUNTED FLUSHOMETER TANK (PRESSURE

ASSISTED) TYPE, ELONGATED BOWL, ADA COMPLIANT, 1.0 GPF, WITH OPEN

FRONT SEAT LESS COVER, OLSENITE #95 OR EQUIVALENT. FLUSHOMETER

TANK: SLOAN FLLUSHMATE OR EQUAL. PROVIDE TANK COVER LOCKS. FLUSH VALVES SHALL BE RIGHT HAND OR LEFT HAND AS REQUIRED TO CORRESPOND

WITH ACCESS FROM WIDE SIDE OF STALL. VERIFY FLUSH SIDE REQUIREMENTS

FAUCET: SINGLE HOLE; SINGLE LEVEL; POLISHED CHROME; 0.5GPM RATED

ALTERNATE SPECIFICATION; VERIFY with OWNER

QUARTER TURN FULL-PORT BALL VALVES AND BRONZE STRAINER

PROVIDE AS REQUIRED PER MUNICIPALITY.

PROVIDE AS REQUIRED PER MUNICIPALITY.

HEAVY CAST IRON COVER.

PVC FLOOR DRAIN, 5" DIA.

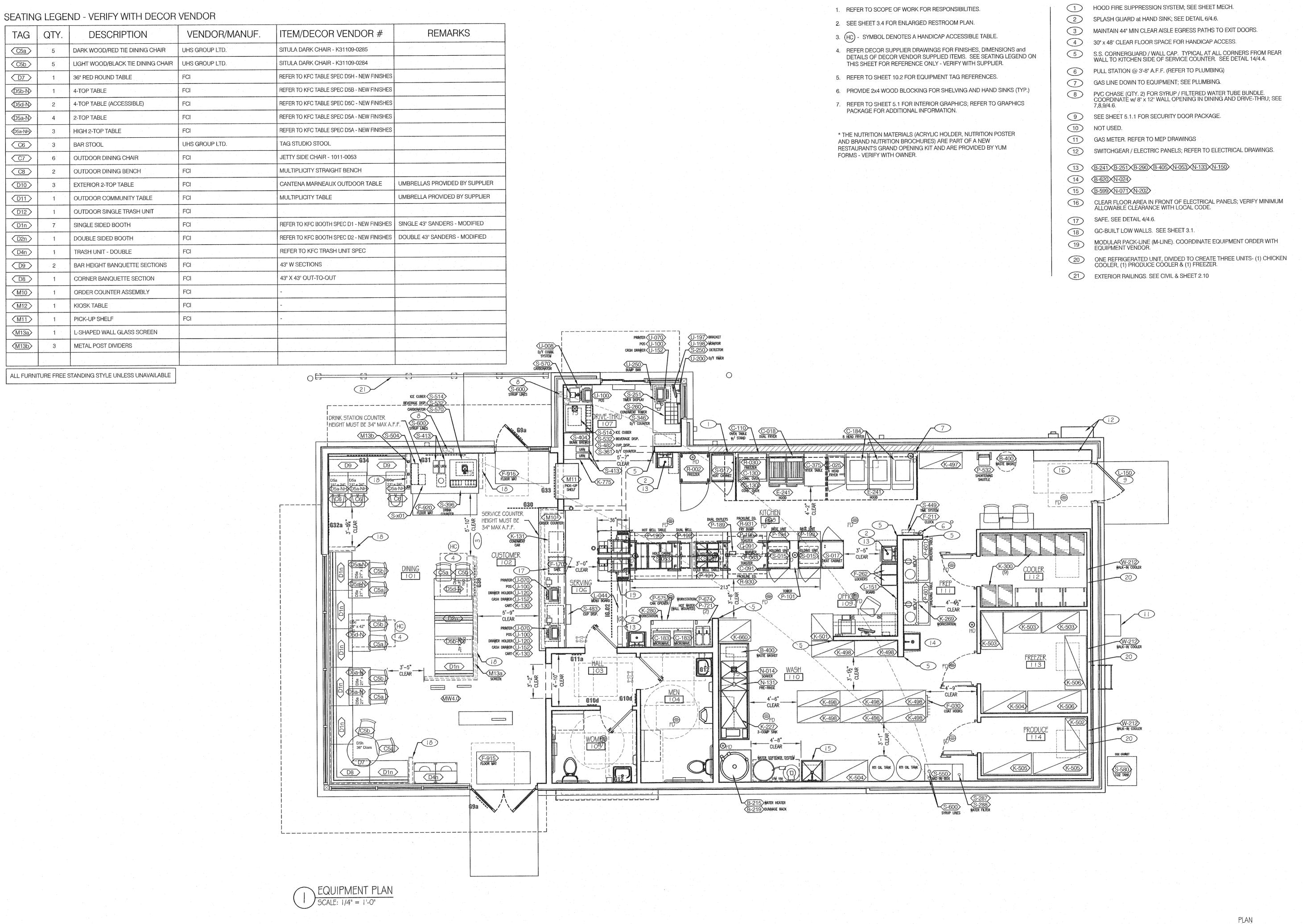
OFF AT 120°F. 1.00 GPM AND 6 FOOT OF HEAD.

CAST BRONZE BODY AND FLANGE DOWNSPOUT WITH BIRDSCREEN. MOUNT NOZZLE 12" ABOVE FINISH GRADE.

				COLD	WATER	HOT WATER			
FIXTURE	QTY.	F.U.	SAN. WASTE	GREASE WASTE	TOTAL F.U.	F.U. CW	TOTAL CW	F.U. HW	TOTAL HW
WATER CLOSET (WC-1)	2	4	8		8	2	6		
URINAL (U-1)	1	2	2		2	5	5		
LAVATORY (L-1)	2	1	2		2	1.5	3	1.5	3
HAND SINK (S-1)	3	2	6		6	1.5	4.5	1.5	4.5
3-COMP. SINK (S-3) **	1					3	3	3	3
HOSE BIBB (HB-1) (HB-2)	3					2.5/1	4.5		
water filter <s-287></s-287>	1					1	1		
WATER FILTER <s-288></s-288>	1					1	1		
floor drain (fd-1)	11	2	4	18	22				
HUB DRAIN (HD-1)	7	2	2	12	14			2	
FLOOR SINK (FS-1)	2	6		12	12			-	
MOP SINK (S-2)	2	2		4	4	2.25	6.75	2.25	6.75
TOTAL			24	46	70		34.75		17.25

TOTAL SANITARY=				GREA
** ENTUDE 1140 IV	IDIOCOT WA	OTF TO F	TOOD CINIK	

242					·	
	W	ATER	HAMME	RAR	RESTER	DETAIL



EVISIONS: 78227 × , San Antonio, S 6807 Military [

NORTH

 $N N^{-1} O_{-1} Lquip awg$

DRAWN BY:
SHEET NU

NO. QT	TY	g.C. Inst	. ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUME	ELECT	GAS	REMARKS	NO.	NO. QTY	a.C. Inst.	ITEM DESCRIPTIO
			B CONTRACTOR BUILDING ELEMENTS			T						N SINKS/DISHWASHERS
3-120 1	1	X	DRIVE-THRU WINDOW	QUICKSERV #SC4030CR				CLEAR ANODIZED	B-120	N-014 1	X	3-COMP POWER SOAK 108"L x 34"D
3-215 1	1	Χ	WATER HEATER	BRADFORD WHITE #EF-100T-199E-3N(A)	X	Х	X		B-215	N-024 1	Χ	PEDESTAL SINK 19 1/2" x 19 1/4"
3-219 <u>1</u> 3-241 3	3	X	DUNNAGE RACK W/ ADJUSTABLE FEET SOAP DISPENSER (WALL MOUNT)	NEW AGE INDUSTRIAL CORP., INC. #98147 KAY 3675				WATER HEATER PLATFORM BASE SURFACE MOUNTED	B-219 B-241	N-053 3 N-071 1	X	HAND SINK (KITCHEN) MOP SINK FAUCET
3-251 3	3	X	SANITIZER DISPENSER	KAY 3741		 		SURFACE MOUNTED	B-251	N-131 1	X	PRE-RINSE KIT
B-265 2 B-275 2	2	X	MIRROR, 18" X 36" TOILET PAPER DISPENSER	BOBRICK #B-165-1836 BOBRICK #B-2890		<u> </u>		SURFACE MOUNTED SURFACE MOUNTED	B-265 B-275	N-133 3 N-150 3	X	HAND SINK FAUCET HAND SINK FOOT PEDAL
B-290 3	3	X	PAPER TOWEL DISPENSER	BOBRICK #B-262				SURFACE MOUNTED	B-290	N-202 1	Χ	MOP SINK 24" x 24" FLOOR MOUNT SINK
B-294 2 B-300 2	2	X	TRASH RECEPTACLE GRAB BAR 1-1/2"DIA X 36" S.S. FIN.	BOBRICK #B-3644 BOBRICK #B6806X36		<u> </u>		SEMI-RECESSED SURFACE MOUNTED	B-294 B-300			
B-305 2	2	X	GRAB BAR 1-1/2"DIA X 42" S.S. FIN. GRAB BAR 1-1/2"DIA X 18" S.S. FIN.	BOBRICK #B6806X42 BOBRICK #B6806X18				SURFACE MOUNTED SURFACE MTD	B-305 B-310			
B-310 - B-400 2	2	X	WASTE BASKET - 32 GALLON	RUBBERMAID #2632 (GREY)	1	ļ <u> </u>		SURFACE WID	B-400			P FOOD PREPARATION
B-405 3 B-406 1	3	X	WASTE BASKET WASTE BASKET	RUBBERMAID SLIM JIM #3541 (GREY) RUBBERMAID 28 QT #2956 (BLACK)					B-405 B-406	P-063 1 P-101 1	X	WARMER, FRY, CRISP N HOLD FRANKE BUCKET TOWER
B-406 1 B-410 1	1	X	SANITARY NAPKIN RECEPTACLE	RUBBERMAID #6140				INCLUDES ACCESSORY KIT & MOUNTING HARDWARE	B-400	P-189 1	X	DUAL ELECTRICAL OUTLETS
B-599 1 B-620 1	1	X	MOP SINK STATION CHICKEN SINK STATION	ISS #WST806Y ISS #MOPCHICKMB			1		B-599 B-620	P-190 1 P-191 1	X	HOT WELL TABLE COLD WELL TABLE
5-020 1			OF HONELY SHAKOTATION	IOO WINIOI OF HORWID					5 020	P-192 1	X	AMBIENT WELL, DUAL
			C COOKING EQUIPMENT			**				P-193 1 P-194 1	X X	BASE UNIT 25" BASE UNIT 35"
C-017 0	0	Χ	SINGLE OPEN FRYER W/ CONTROLLER (OPTIONAL)	PITCO #KF-SFSSH75		X	X	COMES WITH GAS HOSE KIT. VERIFY WITH OWNER	C-017	P-195 1	X	FRY DUMP TABLE
C-018 1 C-025 1	1	X	DUAL OPEN FRYER W/ CONTROLLER 6 HEAD FRYER	PITCO #KF-SFSSH75-2 PITCO #KF-SG6H	- -	X	X	COMES WITH GAS HOSE KIT COMES WITH GAS HOSE KIT	C-018 C-025	P-532 1 P-575 1	X	SHORTENING SHUTTLE CAN OPENER
C-025 1	1		BUN TOASTER	AJ ANTUNES & CO		X	+ ^-	ADDITIONAL TOASTER IS OPTION FOR TOTAL OF (2)	C-025	P-601 2	X	BREADING TABLE (SINGLE), 48"L x 30"W x 36"H
C-110 1	1 .	X	CONVECTION OVEN TABLE W/STAND	FALCON #66-962		X			C-110 C-130	P-651 0	X	CONVECTION OVEN TABLE, 32"W x 31"D x 24"H WORK TABLE over 1/2-HEIGHT FREEZER, 32"W
C-130 1 C-134 0	0	X	CONVECTION OVEN W/ CONTROLLER CONVECTION OVEN (KGC)	BLODGETT #CTBR-AP BLODGETT #XCEL50EC208V3PH2011	X	X			C-130 C-134	P-652 0 P-674 1	X	WORK TABLE over 1/2-HEIGHT FREEZER, 32"W WORK STATION FOR HOT WATER 18"W x 30"D x
C-135 0	0	Χ	CONVECTION OVEN (KGC) STAND MICROWAVE OVEN 2100 W	BLODGETT #XCEL50			T		C-135 C-183	P-721 2	Χ	5 GAL HOT WATER MACHINE
C-183 2 C-184 2	2	X	8 HEAD PRESSURE FRYER	SHARP #R-25JTF HENNY PENNY #PXE-100 (Velocity)	·	X	X	W/ RACK KIT, ACCESSORY KIT -VERIFY GAS OR ELEC.	C-183			
C-375 1	1	X	FRYER LANDING TABLE 24.5" X 36.5"	ISS #536FRYACCMBA					C-375			R REFRIGERATION
C-503 0	0	X	GAS HOSE KIT 3/4"	DORMONT 1675BPQBS48			ļ	FOR C-001	C-503	R-002 1	X	SINGLE SPLIT DOOR FREEZER
						·			<u></u>	R-030 1	X	1/2 HT. FREEZER (RH) STD. CASTERS
			E EXHAUST HOODS/FIRE SUPP.							R-930 1	X	1/2 HT. REFRIGERATOR (LH) STD. CASTERS
E-241 2	2	X	8'-6" WIDE CANOPY HOOD	STRATOVENT		X		SEE HOOD MFR. DRAWINGS (HOOD 1 of 2) M3.0, M3.1	E-241			
							<u> </u>					
							·! · · · · · · · · · · · · · · · · · ·					S SERVING/DRIVE-THRU
			F OFFICE/EMPLOYEE/MUSIC/MISC.							S-015 2	X	HOLDING CABINET
F-006 1	1	X	FILE CABINET (2 DRAWER HIGH)	LOUISVILLE MILL - HON R512PL					F-006	S-017 2	Χ	IMPROVED FULL-HEIGHT HEATED CABINET
F-024 1 F-030 1	1	X	CHAIR - OFFICE (MANAGER) COAT HOOKS	HON HLN7901AB10T ISS #HOOK246R2Y		ļ	<u> </u>		F-024 F-030	S-044 1 S-053 1	X	BUN HOLDING CABINET SIDES HOLDING CABINET
F-040 1	1		OFFICE COMPUTER	POS PROVIDED		X			F-040	S-087 1	X	INFRARED HOLDING BIN
F-050 1 F-060 1	1		CREDIT CARD SATELLITE ROUTER JUNCTION MONITOR-OFFICE	YUM		X	<u> </u>		F-050 F-060	S-200 1 S-250 1		DRIVE-THRU TIMER DUAL OUTPUT VEHICLE DETECTOR
F-080 1	1		OFFICE PRINTER/ COPIER/ FAX/ SCANNER	POS PROVIDED		X			F-080	S-251 1		DRIVE-THRU TIMER DISPLAY UNIT
F-090 1 F-131 1	1		UPS (UN-INTERUPTABLE POWER SUPPLY) MUSIC SYSTEM	POS PROVIDED MUZAK #6848. LOCAL LEASE		X		MUZAC (LOCAL LEASE), W/ 4 SPEAKERS	F-090 F-131	S-260 1 S-283 1	X	DRIVE THRU CONDIMENT TOWER DRIVE THRU DRINK STAGER
F-170 1	1.	Χ	SAFE WITH AUDIT LOCK	NKL #BSD2920AAXRKF		X		MOZAO (LOGAL ELAGE), W/ 4 GI EANERO	F-170	S-287 1	<u> </u>	WATER FILTER SYSTEM
F-211 2 F-262 2	2	X	CLOCK (6 OPENINGS) 12"W x 18"D x 12"H	B&B SYSTEMS #02060475 LYON # 5362 (UN-ASSEMBLED)			<u></u>	WALL MOUNTED EMPLOYEE LOCKERS	F-211 F-262	S-288 1 S-346 1	X	WATER FILTER SYSTEM PICK-UP DRIVE-THRU COUNTER (30" x 54")
F-202 2 F-270 1	1	X	FIRST AID KIT	SWIFT #68-UFPC				WALL MOONTED EMPLOTEE LOCKERS	F-270	S-361 1	X	D/T BEVERAGE COUNTER (32" x 54")
F-341 1 F-500 1	1	X	VIDEO TRAINING UNIT WORKSTATION 24"x24" HIGH CHAIR	ISS #2424MOT1EA KOALA KARE #KB103 "CLASSIC" (GREY)		ļ	·		F-341 F-500	S-407 1		BUNN TEA BREWER
F-915 2	2	X	FLOOR MAT 3' x 5'	ENTRANCE, INC. #41150012				RUBBERIZED	F-915	S-413 4	X	TEA URN
F-920 1	1	X	FLOOR MAT 2' x 7'-6"	CREST #249614 ANTISLIP		-		RUBBERIZED	F-920	S-449 1 S-482 1	X	TIME TAG SYSTEM CUP DISPENSER 30-1/16" x 15-1/16" x 23-3/4"D
					7.7					S-483 1	X	CUP DISPENSER 22" W x 19" H x 5 5/8" D
										S-504 1 S-514 2	X	LID AND STRAW DISPENSER ICE CUBER
						1				S-532 2		BEVERAGE DISPENSER (SELF SERVE / DRIVE T
	<u>-</u>					Ţ	T			S-550 1		BAG-N-BOX SYRUP RACK CARBONATOR
			K WORKSTATIONS/SHELVING/CARTS							S-570 2 S-580 1		CO2 (BULK) TANK
K-130 2	2	X	MOBILE FRONT COUNTER CART 18"X24"	ISS #FC18242MYA					K-130	S-600 2	V	BUNDLED SYRUP LINES NAPKIN TOWER
K-131 1 K-198 0	0	X	MOBILE CONDIMENT CART PREP SINK WORKSTATION 36"L	ISS #CONDDPSS ISS #WST756E					K-131 K-198	S-x01 1	X	NAPKIN TOWER
K-227 1	1	X	3 COMP. SINK WORKSTATION, 96"L	ISS #WST808E			·		K-227			
K-269 2 K-280 1	2	X X	BREADING WORKSTATION (DOUBLE) 18" x 48" 48" MICROWAVE WORKSTATION	ISS #WST758Y ISS #WST760E					K-269 K-280			II OPOINTW/OOSIS /FIRE B
K-282 1	1	X	MIXER WORKSTATION	ISS #WST757E					K-282	11,000		U SECURITY/COMM./FIRE P
	9	X	CHICKEN DOLLY SALAD DOLLY	YESS #PE84065 APW #21639000	-	 	1		K-300 K-320	U-008 1 U-012 2	X	BASE STATION - D/T COMM. SYSTEM w/ HEADS INTEGRATED PACKLINE KIT
K-300 9 K-320 0	_ 1	X	FRYER ACCESSORY WORKSTATION, 24"x30"	ISS #WST761YA					K-416	U-013 2	X	VIEWSONIC LCD DISPLAY
K-300 9 K-320 0 K-416 0	0		BAKERS RACK 20.5" x 26" x 69"	NEW AGE INDUSTRIAL #1331 ISS #WST 1139Y		<u> </u>			K-425 K-437	U-024 1 U-031 1	X	CCTV DVR & MONITOR
K-300 9 K-320 0 K-416 0 K-425 3	0 3 0	X	VEGGIE MODULE, 24" X 36"						K-484	U-050 1	X	SECURITY SYSTEM
K-300 9 K-320 0 K-416 0 K-425 3 K-437 0 K-484 0	0 3 0 0	X	VEGGIE MODULE, 24" X 36" SHELVING UNIT 18" x 72" x 74"H (4 TIER)	ISS #SU187274Y			1 .		K-495	U-070 3 U-100 4		RECEIPT PRINTER POS/ORDER ENTRY TERMINAL
K-300 9 K-320 0 K-416 0 K-425 3 K-437 0 K-484 0 K-495 0	0 3 0 0 0	X X X	SHELVING UNIT 18" x 72" x 74"H (4 TIER) SHELVING UNIT 18" X 30" X 74"H (4 TIER)	ISS #SU1830-7-4Y		1	-		K-496	10000		POS/ORDER ENTRY TERMINAL
K-300 9 K-320 0 K-416 0 K-425 3 K-437 0 K-484 0 K-495 0 K-496 1 K-497 0	0 3 0 0 0 1	X	SHELVING UNIT 18" x 72" x 74"H (4 TIER) SHELVING UNIT 18" X 30" X 74"H (4 TIER) SHELVING UNIT 18" X 36" X 74"H (4 TIER) SHELVING UNIT 18" X 42" X 74"H (4 TIER)	ISS #SU1830-7-4Y ISS #SU1836-7-4Y ISS #SU1842-7-4Y					K-496 K-497	U-120 2		CASH DRAWER HOLDER
K-300 9 K-320 0 K-416 0 K-425 3 K-437 0 K-484 0 K-495 0 K-496 1 K-497 0 K-498 9	0 3 0 0 0 0 1	X X X X X	SHELVING UNIT 18" x 72" x 74"H (4 TIER) SHELVING UNIT 18" X 30" X 74"H (4 TIER) SHELVING UNIT 18" X 36" X 74"H (4 TIER) SHELVING UNIT 18" X 42" X 74"H (4 TIER) SHELVING UNIT 18" x 48" x 74"H (4 TIER)	ISS #SU1830-7-4Y ISS #SU1836-7-4Y ISS #SU1842-7-4Y ISS #SU184874Y					K-497 K-498	U-120 2 U-152 3	X	CASH DRAWER HOLDER CASH DRAWER
K-300 9 K-320 0 K-416 0 K-425 3 K-437 0 K-484 0 K-495 0 K-496 1 K-497 0 K-498 9 K-501 1 K-502 1	0 3 0 0 0 1 0 9	X X X X	SHELVING UNIT 18" x 72" x 74"H (4 TIER) SHELVING UNIT 18" X 30" X 74"H (4 TIER) SHELVING UNIT 18" X 36" X 74"H (4 TIER) SHELVING UNIT 18" X 42" X 74"H (4 TIER) SHELVING UNIT 18" x 48" x 74"H (4 TIER) SHELVING UNIT 24" X 30" X 74"H (4 TIER) SHELVING UNIT 24" X 36" X 74"H (4 TIER)	ISS #SU1830-7-4Y ISS #SU1836-7-4Y ISS #SU1842-7-4Y ISS #SU184874Y ISS #SU243074Y ISS #SU243074Y					K-497 K-498 K-501 K-502	U-120 2 U-152 3 U-197 1 U-198 1	X	CASH DRAWER HOLDER CASH DRAWER MONITOR WALL BRACKET 17" MONITOR (FLAT SCREEN)
K-300 9 K-320 0 K-416 0 K-425 3 K-437 0 K-484 0 K-495 0 K-496 1 K-497 0 K-498 9 K-501 1 K-502 1 K-503 3	0 3 0 0 0 1 0 9 1 1 1 3	X X X X X X X	SHELVING UNIT 18" x 72" x 74"H (4 TIER) SHELVING UNIT 18" X 30" X 74"H (4 TIER) SHELVING UNIT 18" X 36" X 74"H (4 TIER) SHELVING UNIT 18" X 42" X 74"H (4 TIER) SHELVING UNIT 18" x 48" x 74"H (4 TIER) SHELVING UNIT 24" X 30" X 74"H (4 TIER) SHELVING UNIT 24" X 36" X 74"H (4 TIER) SHELVING UNIT 24" X 36" X 74"H (4 TIER) SHELVING UNIT 24" X 42" X 74"H (4 TIER)	ISS #SU1830-7-4Y ISS #SU1836-7-4Y ISS #SU1842-7-4Y ISS #SU184874Y ISS #SU243074Y ISS #SU244274Y					K-497 K-498 K-501 K-502 K-502	U-120 2 U-152 3 U-197 1 U-198 1 U-199 4		CASH DRAWER HOLDER CASH DRAWER MONITOR WALL BRACKET 17" MONITOR (FLAT SCREEN) MONITOR BRACKET
K-300 9 K-320 0 K-416 0 K-425 3 K-437 0 K-484 0 K-495 0 K-496 1 K-497 0 K-498 9 K-501 1 K-502 1 K-503 3	0 3 0 0 0 1 0 9 1 1 1 3 2	X X X X X X	SHELVING UNIT 18" x 72" x 74"H (4 TIER) SHELVING UNIT 18" X 30" X 74"H (4 TIER) SHELVING UNIT 18" X 36" X 74"H (4 TIER) SHELVING UNIT 18" X 42" X 74"H (4 TIER) SHELVING UNIT 18" x 48" x 74"H (4 TIER) SHELVING UNIT 24" X 30" X 74"H (4 TIER) SHELVING UNIT 24" X 36" X 74"H (4 TIER)	ISS #SU1830-7-4Y ISS #SU1836-7-4Y ISS #SU1842-7-4Y ISS #SU184874Y ISS #SU243074Y ISS #SU244274Y ISS #SU244874Y ISS #SU245474Y					K-497 K-498 K-501 K-502 K-502 K-502 K-506	U-120 2 U-152 3 U-197 1 U-198 1	Χ	CASH DRAWER HOLDER CASH DRAWER MONITOR WALL BRACKET 17" MONITOR (FLAT SCREEN)
K-300 9 K-320 0 K-416 0 K-425 3 K-437 0 K-484 0 K-495 0 K-496 1 K-497 0 K-498 9 K-501 1 K-502 1 K-503 3 K-504 2 K-505 1 K-506 3	1 3	X X X X X X X X X	SHELVING UNIT 18" x 72" x 74"H (4 TIER) SHELVING UNIT 18" X 30" X 74"H (4 TIER) SHELVING UNIT 18" X 36" X 74"H (4 TIER) SHELVING UNIT 18" X 42" X 74"H (4 TIER) SHELVING UNIT 18" x 48" x 74"H (4 TIER) SHELVING UNIT 24" X 30" X 74"H (4 TIER) SHELVING UNIT 24" X 36" X 74"H (4 TIER) SHELVING UNIT 24" X 42" X 74"H (4 TIER) SHELVING UNIT 24" X 48" X 74"H (4 TIER) SHELVING UNIT 24" X 48" X 74"H (4 TIER) SHELVING UNIT 24" x 54" x 74"H (4 TIER) SHELVING UNIT 24" x 54" x 74"H (4 TIER)	ISS #SU1830-7-4Y ISS #SU1836-7-4Y ISS #SU1842-7-4Y ISS #SU184874Y ISS #SU243074Y ISS #SU244274Y ISS #SU244874Y ISS #SU245474Y ISS #SU246074Y					K-497 K-498 K-501 K-502 K-502 K-502 K-506 K-506	U-120 2 U-152 3 U-197 1 U-198 1 U-199 4	Χ	CASH DRAWER HOLDER CASH DRAWER MONITOR WALL BRACKET 17" MONITOR (FLAT SCREEN) MONITOR BRACKET
K-300 9 K-320 0 K-416 0 K-425 3 K-437 0 K-484 0 K-495 0 K-496 1 K-497 0 K-498 9 K-501 1 K-502 1 K-503 3 K-504 2 K-506 3	0 3 0 0 0 1 0 9 1 1 1 3 2 1 3 0 0	X X X X X X X X	SHELVING UNIT 18" x 72" x 74"H (4 TIER) SHELVING UNIT 18" X 30" X 74"H (4 TIER) SHELVING UNIT 18" X 36" X 74"H (4 TIER) SHELVING UNIT 18" X 42" X 74"H (4 TIER) SHELVING UNIT 18" x 48" x 74"H (4 TIER) SHELVING UNIT 24" X 30" X 74"H (4 TIER) SHELVING UNIT 24" X 36" X 74"H (4 TIER) SHELVING UNIT 24" X 42" X 74"H (4 TIER) SHELVING UNIT 24" X 42" X 74"H (4 TIER) SHELVING UNIT 24" X 48" X 74"H (4 TIER) SHELVING UNIT 24" X 54" x 74"H (4 TIER)	ISS #SU1830-7-4Y ISS #SU1836-7-4Y ISS #SU1842-7-4Y ISS #SU184874Y ISS #SU243074Y ISS #SU244274Y ISS #SU244874Y ISS #SU245474Y					K-497 K-498 K-501 K-502 K-502 K-502 K-506	U-120 2 U-152 3 U-197 1 U-198 1 U-199 4	Χ	CASH DRAWER HOLDER CASH DRAWER MONITOR WALL BRACKET 17" MONITOR (FLAT SCREEN) MONITOR BRACKET BUMP BAR
 <-300 <-320 <-425 <-437 <-484 <-495 <-496 <-497 <-498 <-501 <-502 <-503 <-504 <-505 <-506 <-507 <-512 <-660 <-320 <-512 <-660 <-320 <-512 <-660 <-320 <-512 <-660 <-416 <-506 <-512 <-660 <-520 <-512 <-660 <-520 <-512 <-560 <-512 <-560 <-506 <-506 <-507 <-506 <-507 <-506 <-507 <-506 <-507 <-506 <-507 <-506 <-506 <-506 <-506 <-506 <-506 <l><-506</l> <-506 <-506 <-506 <-50	1 3	X X X X X X X X X X X X	SHELVING UNIT 18" x 72" x 74"H (4 TIER) SHELVING UNIT 18" X 30" X 74"H (4 TIER) SHELVING UNIT 18" X 42" X 74"H (4 TIER) SHELVING UNIT 18" X 42" X 74"H (4 TIER) SHELVING UNIT 18" x 48" x 74"H (4 TIER) SHELVING UNIT 24" X 30" X 74"H (4 TIER) SHELVING UNIT 24" X 36" X 74"H (4 TIER) SHELVING UNIT 24" X 42" X 74"H (4 TIER) SHELVING UNIT 24" X 48" X 74"H (4 TIER) SHELVING UNIT 24" X 48" X 74"H (4 TIER) SHELVING UNIT 24" x 54" x 74"H (4 TIER) SHELVING UNIT 24" x 56" x 74"H (4 TIER) SHELVING UNIT 24" x 66" x 74"H (4 TIER) SHELVING UNIT 24" x 66" x 74"H (4 TIER) SHELVING UNIT 24" x 66" x 74"H (4 TIER) SHELVING UNIT 24" x 36" x 74"H (4 TIER) SHELVING UNIT 24" x 36" x 74"H (4 TIER)	ISS #SU1830-7-4Y ISS #SU1836-7-4Y ISS #SU1842-7-4Y ISS #SU184874Y ISS #SU243074Y ISS #SU244274Y ISS #SU244874Y ISS #SU245474Y ISS #SU246074Y ISS #SU246674Y					K-497 K-498 K-501 K-502 K-502 K-506 K-506 K-507 K-512 K-660	U-120 2 U-152 3 U-197 1 U-198 1 U-199 4 U-250 4 W-212 3	X X	CASH DRAWER HOLDER CASH DRAWER MONITOR WALL BRACKET 17" MONITOR (FLAT SCREEN) MONITOR BRACKET BUMP BAR W WALK-IN COOLERS/FREE WALK-IN COOLER / FREEZER
(-300 9 (-320 0 (-416 0 (-425 3 (-437 0 (-484 0 (-495 0 (-496 1 (-497 0 (-498 9 (-501 1 (-502 1 (-503 3 (-504 2 (-505 1 (-506 3 (-507 0 (-512 0 (-660 1	1 3	X X X X X X X X X X	SHELVING UNIT 18" x 72" x 74"H (4 TIER) SHELVING UNIT 18" X 30" X 74"H (4 TIER) SHELVING UNIT 18" X 42" X 74"H (4 TIER) SHELVING UNIT 18" X 42" X 74"H (4 TIER) SHELVING UNIT 18" x 48" x 74"H (4 TIER) SHELVING UNIT 24" X 30" X 74"H (4 TIER) SHELVING UNIT 24" X 36" X 74"H (4 TIER) SHELVING UNIT 24" X 42" X 74"H (4 TIER) SHELVING UNIT 24" X 48" X 74"H (4 TIER) SHELVING UNIT 24" X 48" X 74"H (4 TIER) SHELVING UNIT 24" x 54" x 74"H (4 TIER) SHELVING UNIT 24" x 66" x 74"H (4 TIER) SHELVING UNIT 24" x 66" x 74"H (4 TIER) SHELVING UNIT 24" x 66" x 74"H (4 TIER) SHELVING UNIT 18" x 66" x 74"H (4 TIER)	ISS #SU1830-7-4Y ISS #SU1836-7-4Y ISS #SU1842-7-4Y ISS #SU184874Y ISS #SU243074Y ISS #SU244274Y ISS #SU244874Y ISS #SU245474Y ISS #SU246674Y ISS #SU186074Y					K-497 K-498 K-501 K-502 K-502 K-506 K-506 K-507 K-512	U-120 2 U-152 3 U-197 1 U-198 1 U-199 4 U-250 4 W-212 3	X X X EMS NOTED AS	CASH DRAWER HOLDER CASH DRAWER MONITOR WALL BRACKET 17" MONITOR (FLAT SCREEN) MONITOR BRACKET BUMP BAR W WALK-IN COOLERS/FREE
K-300 9 K-320 0 K-416 0 K-425 3 K-437 0 K-484 0 K-495 0 K-496 1 K-497 0 K-498 9 K-501 1 K-502 1 K-503 3 K-504 2 K-505 1 K-506 3 K-507 0 K-512 0 K-660 1	1 3	X X X X X X X X X X X X	SHELVING UNIT 18" x 72" x 74"H (4 TIER) SHELVING UNIT 18" X 30" X 74"H (4 TIER) SHELVING UNIT 18" X 42" X 74"H (4 TIER) SHELVING UNIT 18" X 42" X 74"H (4 TIER) SHELVING UNIT 18" x 48" x 74"H (4 TIER) SHELVING UNIT 24" X 30" X 74"H (4 TIER) SHELVING UNIT 24" X 36" X 74"H (4 TIER) SHELVING UNIT 24" X 42" X 74"H (4 TIER) SHELVING UNIT 24" X 48" X 74"H (4 TIER) SHELVING UNIT 24" X 48" X 74"H (4 TIER) SHELVING UNIT 24" x 54" x 74"H (4 TIER) SHELVING UNIT 24" x 56" x 74"H (4 TIER) SHELVING UNIT 24" x 66" x 74"H (4 TIER) SHELVING UNIT 24" x 66" x 74"H (4 TIER) SHELVING UNIT 24" x 66" x 74"H (4 TIER) SHELVING UNIT 24" x 36" x 74"H (4 TIER) SHELVING UNIT 24" x 36" x 74"H (4 TIER)	ISS #SU1830-7-4Y ISS #SU1836-7-4Y ISS #SU1842-7-4Y ISS #SU184874Y ISS #SU243074Y ISS #SU244274Y ISS #SU244874Y ISS #SU245474Y ISS #SU246674Y ISS #SU186074Y					K-497 K-498 K-501 K-502 K-502 K-506 K-506 K-507 K-512 K-660	U-120 2 U-152 3 U-197 1 U-198 1 U-199 4 U-250 4 W-212 3 NOTE: ITE EVALUATION B. D/T CLEAR	X X X EMS NOTED ASON. PLEASE COMMENTED BAR, SEC	CASH DRAWER HOLDER CASH DRAWER MONITOR WALL BRACKET 17" MONITOR (FLAT SCREEN) MONITOR BRACKET BUMP BAR W WALK-IN COOLERS/FREE WALK-IN COOLER / FREEZER "CURRENTLY UNDER A FIELD VALIDATION PR ONTACT YOUR DISTRIBUTOR IF YOU HAVE AN' CURITY DOOR, WATER HEATER, D/T WINDOW, RE
K-300 9 K-320 0 K-416 0 K-425 3 K-437 0 K-484 0 K-495 0 K-496 1 K-497 0 K-498 9 K-501 1 K-502 1 K-503 3 K-504 2 K-505 1 K-506 3 K-507 0	1 3	X X X X X X X X X X X X	SHELVING UNIT 18" x 72" x 74"H (4 TIER) SHELVING UNIT 18" X 30" X 74"H (4 TIER) SHELVING UNIT 18" X 42" X 74"H (4 TIER) SHELVING UNIT 18" X 42" X 74"H (4 TIER) SHELVING UNIT 18" x 48" x 74"H (4 TIER) SHELVING UNIT 24" X 30" X 74"H (4 TIER) SHELVING UNIT 24" X 36" X 74"H (4 TIER) SHELVING UNIT 24" X 42" X 74"H (4 TIER) SHELVING UNIT 24" X 48" X 74"H (4 TIER) SHELVING UNIT 24" X 48" X 74"H (4 TIER) SHELVING UNIT 24" x 54" x 74"H (4 TIER) SHELVING UNIT 24" x 60" x 74"H (4 TIER) SHELVING UNIT 24" x 60" x 74"H (4 TIER) SHELVING UNIT 24" x 66" x 74"H (4 TIER) SHELVING UNIT 24" x 36" x 74"H (4 TIER) SHELVING UNIT 24" x 36" x 74"H (4 TIER) SHELVING UNIT 24" x 36" x 74"H (4 TIER) TEA BREWING TABLE	ISS #SU1830-7-4Y ISS #SU1836-7-4Y ISS #SU1842-7-4Y ISS #SU184874Y ISS #SU243074Y ISS #SU244274Y ISS #SU244874Y ISS #SU245474Y ISS #SU246674Y ISS #SU186074Y				INCLUDES MOUNTING RAILS AND BRACKETS.	K-497 K-498 K-501 K-502 K-502 K-506 K-506 K-507 K-512 K-660	U-120 2 U-152 3 U-197 1 U-198 1 U-199 4 U-250 4 W-212 3 NOTE: ITE EVALUATION B. D/T CLEAR DOOR/CUI	X X EMS NOTED AS ON. PLEASE C ANCE BAR, SEC	CASH DRAWER HOLDER CASH DRAWER MONITOR WALL BRACKET 17" MONITOR (FLAT SCREEN) MONITOR BRACKET BUMP BAR W WALK-IN COOLERS/FREE WALK-IN COOLER / FREEZER "CURRENTLY UNDER A FIELD VALIDATION PRONTACT YOUR DISTRIBUTOR IF YOU HAVE AN"
K-300 9 K-320 0 K-416 0 K-425 3 K-437 0 K-484 0 K-495 0 K-496 1 K-497 0 K-498 9 K-501 1 K-502 1 K-503 3 K-504 2 K-505 1 K-506 3 K-507 0 K-660 1 K-775 1	1 3	X X X X X X X X X X X	SHELVING UNIT 18" x 72" x 74"H (4 TIER) SHELVING UNIT 18" X 30" X 74"H (4 TIER) SHELVING UNIT 18" X 42" X 74"H (4 TIER) SHELVING UNIT 18" X 42" X 74"H (4 TIER) SHELVING UNIT 18" x 48" x 74"H (4 TIER) SHELVING UNIT 24" X 30" X 74"H (4 TIER) SHELVING UNIT 24" X 36" X 74"H (4 TIER) SHELVING UNIT 24" X 42" X 74"H (4 TIER) SHELVING UNIT 24" X 48" X 74"H (4 TIER) SHELVING UNIT 24" X 48" X 74"H (4 TIER) SHELVING UNIT 24" x 54" x 74"H (4 TIER) SHELVING UNIT 24" x 60" x 74"H (4 TIER) SHELVING UNIT 24" x 66" x 74"H (4 TIER) SHELVING UNIT 24" x 66" x 74"H (4 TIER) SHELVING UNIT 24" x 36" x 74"H (4 TIER) SHELVING UNIT 24" x 36" x 74"H (4 TIER) SHELVING UNIT 24" x 36" x 74"H (4 TIER) TEA BREWING TABLE	ISS #SU1830-7-4Y ISS #SU1836-7-4Y ISS #SU1842-7-4Y ISS #SU184874Y ISS #SU243074Y ISS #SU244274Y ISS #SU244874Y ISS #SU245474Y ISS #SU246074Y ISS #SU246674Y ISS #SU186074Y SPG #KFC Y243676K3				INCLUDES MOUNTING RAILS AND BRACKETS. ORDERED DIRECT FROM YRFS ORDERED DIRECT FROM YRFS	K-497 K-498 K-501 K-502 K-502 K-506 K-506 K-507 K-512 K-660 K-775	U-120 2 U-152 3 U-197 1 U-198 1 U-199 4 U-250 4 W-212 3 NOTE: ITE EVALUATION OF C. FRYERS, C. E. KITCHEN E	X X X EMS NOTED AS ON. PLEASE C ANCE BAR, SEC RTAIN, MOP SIN VENS, GRILLS, EXHAUST HOOE	CASH DRAWER HOLDER CASH DRAWER MONITOR WALL BRACKET 17" MONITOR (FLAT SCREEN) MONITOR BRACKET BUMP BAR W WALK-IN COOLERS/FREE WALK-IN COOLER / FREEZER "CURRENTLY UNDER A FIELD VALIDATION PR ONTACT YOUR DISTRIBUTOR IF YOU HAVE AN' CURITY DOOR, WATER HEATER, D/T WINDOW, RE K, HAND SINK ACC., CORNER GUARDS, MATS

	1	X	3-COMP POWER SOAK 108"L x 34"D PEDESTAL SINK 19 1/2" x 19 1/4"	METCRAFT #200PSB108L121DIPKFC AERO MANUFACTURING CO., INC. #LB-1616	X		W/ T & S B-2466 FAUCET & SPRAY RINSE INCLUDES BASE, FAUCET & FOOT PEDAL DUAL CONTROL	N-014 N-XX1
N-024 N-053	3	X	HAND SINK (KITCHEN)	AERO #HS-MOD	Х			N-053
N-071	1	X	MOP SINK FAUCET	T&S #B-2465	X		FORMO	N-071
N-131 N-133	3	X	PRE-RINSE KIT HAND SINK FAUCET	T&S B-2466 T&S FAUCET B-2456-W	X		FOR N-014 SPLASH MOUNTED, FOR N-053	N-131 N-133
V-150	3	X	HAND SINK FOOT PEDAL	T&S B-0507	X		FOR N-053	N-150
N-202	1	Х	MOP SINK 24" x 24" FLOOR MOUNT SINK	AERO MANUFACTURING CO., INC. #3MP-2121-6	X		INCLUDES (2) 24"X36" WALL PANELS	N-202
··						T		T
			P FOOD PREPARATION					
P-063	1	X	WARMER, FRY, CRISP N HOLD	#CNH28LP208V/ 60HZ		Х		P-063
P-101 P-189	1	X	FRANKE BUCKET TOWER DUAL ELECTRICAL OUTLETS	DELFIELD		×	DELFIELD DUAL M-LINE	P-101 P-189
P-190	1	X	HOT WELL TABLE	DELFIELD		Х	DELFIELD DUAL M-LINE	P-190
P-191	1	X	COLD WELL TABLE AMBIENT WELL, DUAL	DELFIELD DELFIELD		X	DELFIELD DUAL M-LINE DELFIELD DUAL M-LINE	P-191 P-192
P-192 P-193	1	X	BASE UNIT 25"	DELFIELD			DELFIELD DUAL M-LINE	P-193
P-194	1	Χ	BASE UNIT 35"	DELFIELD			DELFIELD DUAL M-LINE	P-194
P-195 P-532	1	X	FRY DUMP TABLE SHORTENING SHUTTLE	DELFIELD WORCESTER SS-709			DELFIELD DUAL M-LINE	P-071 P-532
P-575	1	X	CAN OPENER	EDLUND EDL16100				P-575
P-601	2 .	X	BREADING TABLE (SINGLE), 48"L x 30"W x 36"H	APN #4957700		X	ON CASTERS	P-601 P-651
P-651 P-652	0	X	CONVECTION OVEN TABLE, 32"W x 31"D x 24"H w/ 4"H RAILS WORK TABLE over 1/2-HEIGHT FREEZER, 32"W x 31"D x 36"H	APW #4857720 APW #4857800			ON CASTERS	P-651
P-674	1	Χ	WORK STATION FOR HOT WATER 18"W x 30"D x 76"H	ISS #WST790E			HOT WATER DISPENSER STATION	P-674
P-721	2	X	5 GAL HOT WATER MACHINE	BUNN 125000066	X	X		P-721
L								
			R REFRIGERATION					
R-002	1	X	SINGLE SPLIT DOOR FREEZER	TRAULSEN G12001		X		R-002
R-030	1	X	1/2 HT. FREEZER (RH) STD. CASTERS	DELFIELD 407CA, RH		X		R-030
R-930	1	X	1/2 HT. REFRIGERATOR (LH) STD. CASTERS	DELFIELD 406CAPDHL2.5, LH		X		R-930
				L	1			
			S SERVING/DRIVE-THRU		T			
S-015	2	X	HOLDING CABINET	AHC993RH	X	X	L/H FRONT, R/H BACK w/ FLIP DOORS BOTH SIDES	S-015
S-015 S-017	2	X	IMPROVED FULL-HEIGHT HEATED CABINET	HENNY PENNY #AHC-990LSD	^_	X	L/H FRONT, R/H BACK W/ GLASS DOOR BOTH SIDES	S-017
S-044	1	Χ	BUN HOLDING CABINET	KFCEVOBH208		X	FLIP DOOR ACCESS ON BOTH SIDES	S-044
S-053 S-087	1	X	SIDES HOLDING CABINET INFRARED HOLDING BIN	CARTER HOFFMAN KFCEVOSH208 PRINCE CASTLE DHB2PT33KFCB		X	SLIDING DOOR ACCESS ON BOTH SIDES FLIP DOOR ACCESS ON BOTH SIDES	S-053 S-087
S-200	1		DRIVE-THRU TIMER	ERC #DTT-KFCNT		X	721 00017100200 07 20 11 01 20	S-200
S-250	1		DUAL OUTPUT VEHICLE DETECTOR	ERC #9172 ERC TM-05		X		S-250 S-251
S-251 S-260	1	X	DRIVE-THRU TIMER DISPLAY UNIT DRIVE THRU CONDIMENT TOWER	ISS #CONDTOW24L		^		S-260
S-283	1	Χ	DRIVE THRU DRINK STAGER	ISS #WST788E				S-283
S-287 S-288	1	X	WATER FILTER SYSTEM WATER FILTER SYSTEM	SELECTO #BFCS, PART #66-6145LFM SELECTO #SMFIC614, PART #80-6140	X		PROVIDED and INSTALLED BY PEPSI PROVIDED BY OWNER / INSTALLED BY G.C.	S-287 S-288
S-346	1	X	PICK-UP DRIVE-THRU COUNTER (30" x 54")	ISS #WST1140Y				S-346
S-361	1 .	X	D/T BEVERAGE COUNTER (32" x 54")	DELFIELD #TB002455	· · · · · · · · · · · · · · · · · · ·			S-361
S-407	1	X	BUNN TEA BREWER	BUNN TB3Q W/TD4T	····			S-407
S-413	4	X	TEA URN					S-413
S-449 S-482	$\frac{1}{1}$	X	TIME TAG SYSTEM CUP DISPENSER 30-1/16" x 15-1/16" x 23-3/4"D	FRANKE #27800400 A.J. ANTUNES #DACS60				S-449 S-482
S-483	1	X	CUP DISPENSER 22" W x 19" H x 5 5/8" D	DIVERSIFIED METAL #WR-CC-22-RD				S-483
S-504 S-514	1 2	X	LID AND STRAW DISPENSER ICE CUBER	DISPENSE-RITE #DMP TLD-3BT-2STR MANITOWOC # 1Y0684C	X	X		S-504 S-514
S-532	2		BEVERAGE DISPENSER (SELF SERVE / DRIVE THRU)	CORNELIUS #ED 250	X	X		S-532
S-550	1		BAG-N-BOX SYRUP RACK	CORNELIUS/REMCOR BNB12B8P	X		FLO-3REG-2CRB, PROVIDED and INSTALLED BY PEPSI	S-550
S-570 S-580	2		CARBONATOR CO2 (BULK) TANK	CORNELIUS/REMCOR MVE #11805373	X	X	LOCATED ON SHELF BENEATH DRINK MACHINE WITHOUT IMPURITY RING	S-570 S-580
S-600	2		BUNDLED SYRUP LINES	CORNELIUS/REMCOR TUBE BUNDLE	X		PROVIDED and INSTALLED BY PEPSI	S-600
S-x01	. 1	Х	NAPKIN TOWER	EXPRESSNAP 32XSP			DRINK, FRONT COUNTER, DT	S-x01
					1			
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		T	T				
		·	U SECURITY/COMM./FIRE PROT./POS					
U-008 U-012	1 2	X	BASE STATION - D/T COMM. SYSTEM w/ HEADSET RACK INTEGRATED PACKLINE KIT	ION IQ 6A10 SYSTEM; HME #C30000-6-HS-YUM ICP105		X	6 COMMUNICATORS & BATTERY CHARGER, +7'-0" A.F.F.	U-008 U-012
J-012	2	X	VIEWSONIC LCD DISPLAY	VA705B		X		U-013
J-024	1		COTADAD & MONITOD	MADTOO INO #Ecocodo		V		U-024
J-031 J-050	1	X	CCTV DVR & MONITOR SECURITY SYSTEM	MARTCO, INC. #E58050046 ADT #E53200155		X		U-031
J-070	3		RECEIPT PRINTER	POS PROVIDED		X	2 FOR F/C AND 1 D/T	U-070
J-100 J-120	4 2		POS/ORDER ENTRY TERMINAL CASH DRAWER HOLDER	POS PROVIDED POS PROVIDED		X	SEE SCOPE OF WORK	U-100
J-120 J-152	3		CASH DRAWER HOLDER CASH DRAWER	POS PROVIDED POS PROVIDED			SEE SCOPE OF WORK	U-152
U-197	1	X	MONITOR WALL BRACKET	POS PROVIDED			SEE SOODE OF WORK	U-197
U-198 U-199	1 4	X	17" MONITOR (FLAT SCREEN) MONITOR BRACKET	POS PROVIDED POS PROVIDED	1 .	X	SEE SCOPE OF WORK SEE SCOPE OF WORK	U-198 U-199
U-250	4		BUMP BAR	POS PROVIDED				U-250
Т	T				T.	T T		
			W WALK-IN COOLERS/FREEZERS					
	3	Χ	WALK-IN COOLER / FREEZER	SEE DISTRIBUTOR EQUIPMENT MODEL	X	X		W-212
W-212	IOTE: IT		AS "CURRENTLY UNDER A FIELD VALIDATION PROGRAM" ARE PAF	RT OF A LARGE SCALE EVALUATION AND MAY NO	T BE APP	ROVED FOR	CONTINUING USE FOLLOWING COMPLETION OF THE	
N		ON, PLEASE	CONTACT YOUR DISTRIBUTOR IF YOU HAVE ANY QUESTIONS.		: -	· .		
N	VALUATI			SORIES, AIR N. POWERSOAK, KITO	CHEN HAI	ID SINKS PI	REP. SINKS, DISHWASHERS	
Е В. D	/T CLEAF		ECURITY DOOR, WATER HEATER, D/T WINDOW, RESTROOM ACCES: INK. HAND SINK ACC. CORNER GUARDS, MATS					
B. D. C. FI	/T CLEAF OOR/CU RYERS, C	RTAIN, MOP S OVENS, GRILLS	INK, HAND SINK ACC., CORNER GUARDS, MATS 6, RETHERMALIZERS, TOASTERS, MICROWAVES	P. M.A.P.S. LINES, I-LI MELTERS	INES, PAC	CK LINES, BF	EADERS, MARINATORS, HOT WATER, WORK TABLES, CHEESE	
B. D. C. FI	/T CLEAF OOR/CU RYERS, C	RTAIN, MOP S OVENS, GRILLS EXHAUST HOC	INK, HAND SINK ACC., CORNER GUARDS, MATS	P. M.A.P.S. LINES, I-LI MELTERS R. REFRIGERATORS A	INES, PAC AND FREE	K LINES, BF	EADERS, MARINATORS, HOT WATER, WORK TABLES, CHEESE	

EQUIPMENT SCHEDULE

METCRAFT #200PSB108L121DIPKFC

MFR & MODEL NUMBER

NOTE: VERIFY ALL FINAL EQUIPMENT QUANTITIES AND LAYOUT WITH EQUIPMENT SUPPLIER

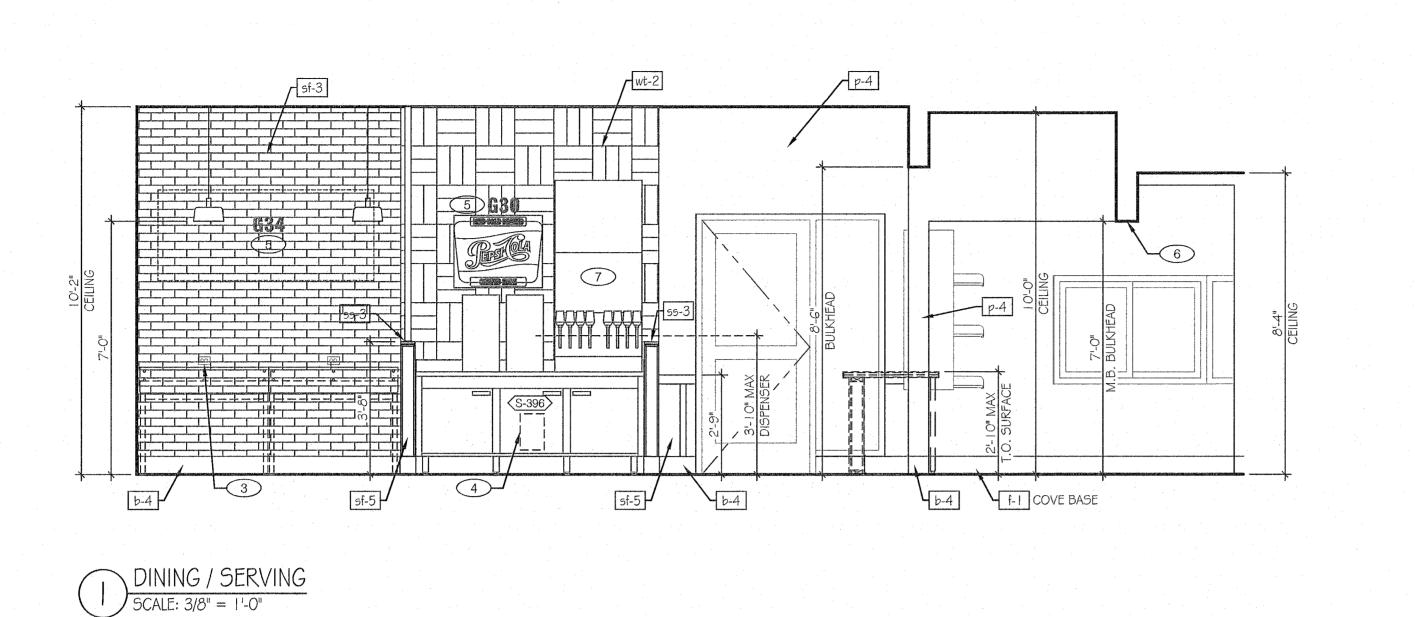
SHEET NUMBER:

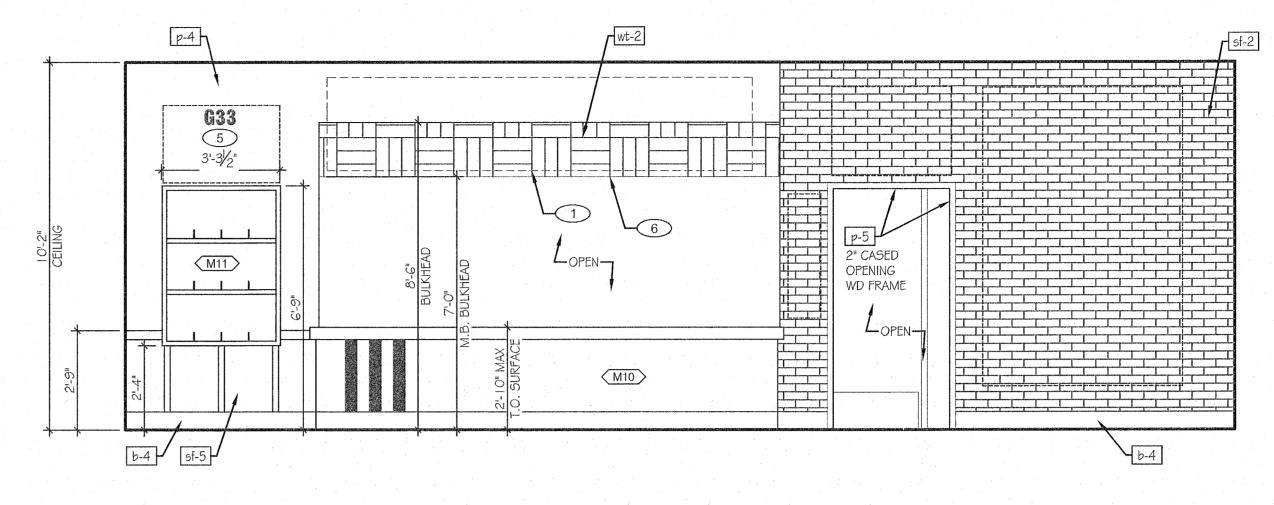
NO.

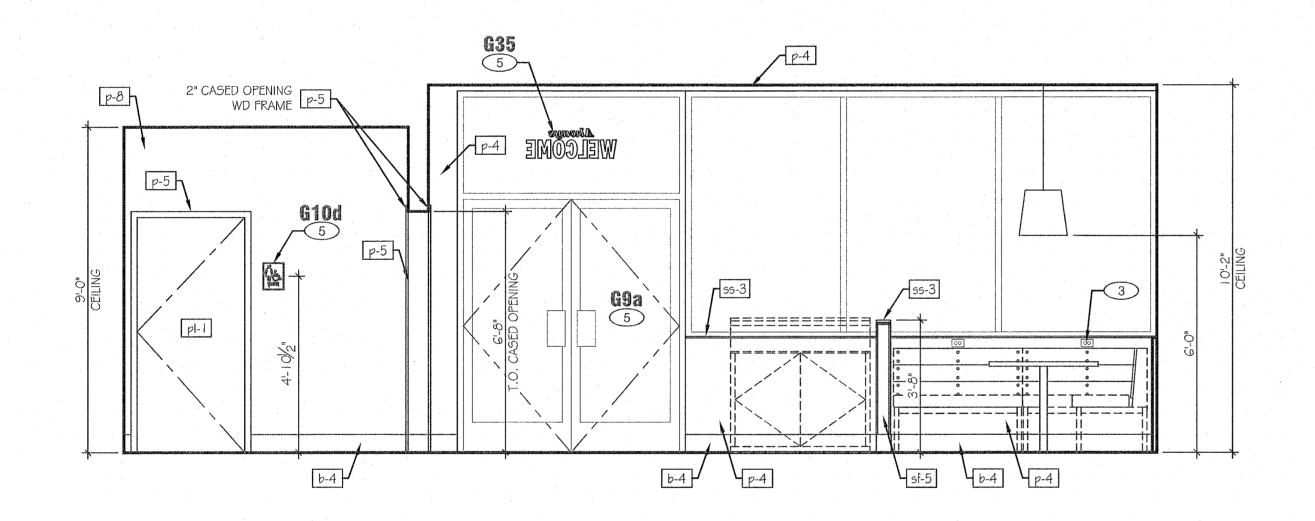
N-014

REMARKS

X X W/T & S B-2466 FAUCET & SPRAY RINSE







WALL FINISH__/ TRANSITION f-I COVE BASE COVE BASE [F-1]

GENERAL NOTE:

PROVIDE CLEAR SILICONE CAULK WHERE ALL FIXED AND BUILT-IN COUNTERS / EQUIPMENT ABUT WALL SURFACES. WHERE GAP BETWEEN WALL AND COUNTER SPLASH / EQUIPMENT EXCEEDS 1/4", PROVIDE S.S.

FOR MILLWORK REFERENCE INFORMATION, REFER TO SCHEDULE D ON SHEET A2.0.

KEY NOTES:

1 MENU BOARD; SEE SCOPE OF WORK.

2 NOT USED.

3 DUPLEX OUTLET ABOVE BANQUETTE. COORDINATE WITH MILLWORK. REFER TO ELECTRICAL PLANS

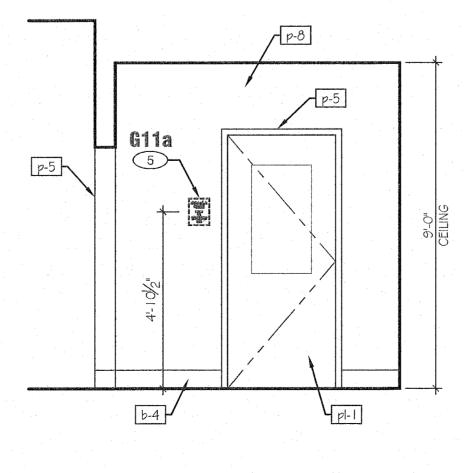
8" x 12" OPENING FOR SYRUP / FILTERED WATER TUBE BUNDLES. SEE 7, 8, 9 / 4.6.

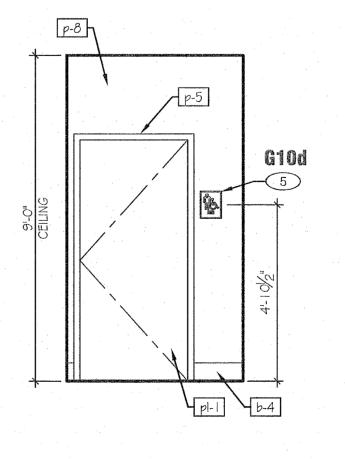
5 REFER TO ARTWORK SCHEDULE ON SHEET 5.1.2.

6 MENUBOARD BULKHEAD. SEE DETAIL 1/4.6.

7 DRINK STATION, PEPSI MACHINE; COORDINATE REACH HEIGHT / DEPTH WITH LOCAL CODE.

[32a





3 HALL / DINING SCALE: 3/8" = 1'-0"

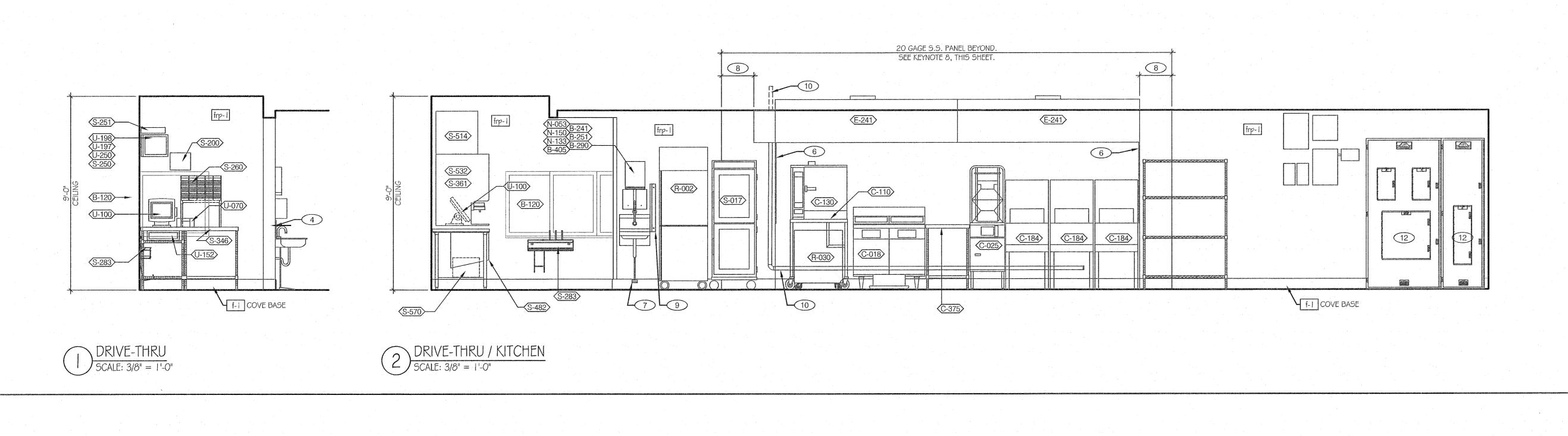
SHEET NUMBER:

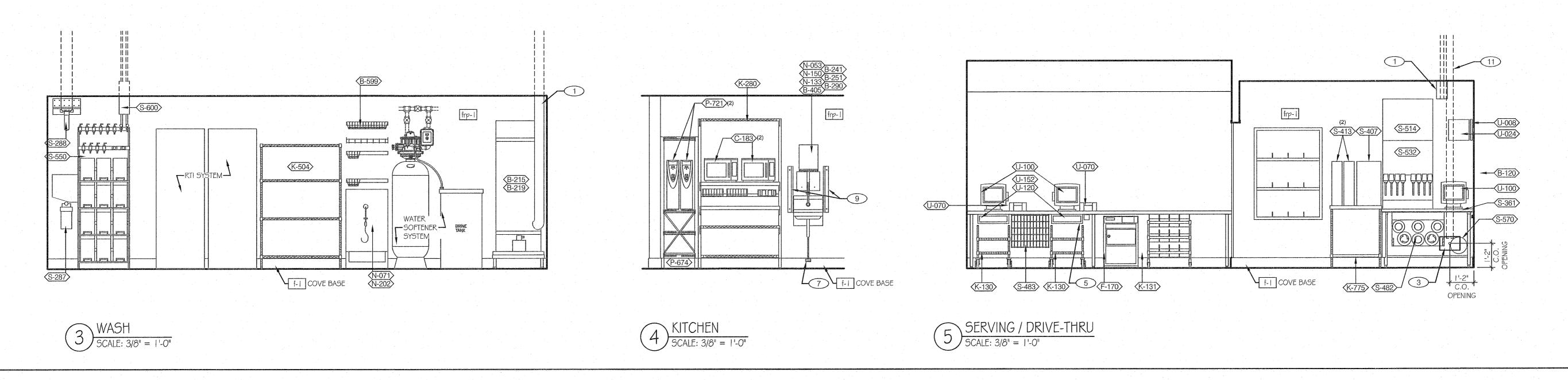
DATE:

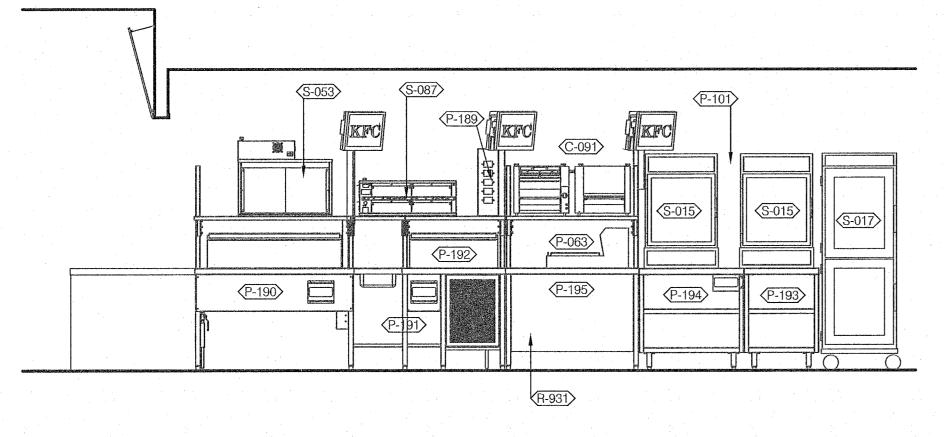
04.25.22

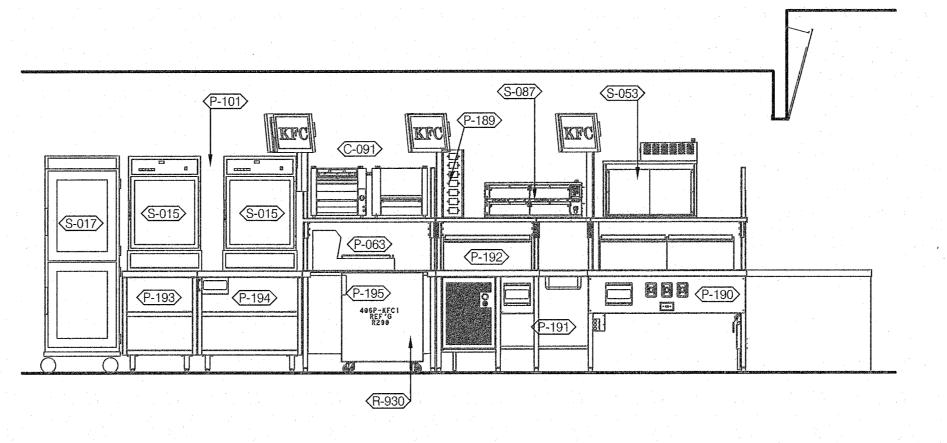
Rockgate

WWW San Antonio, Tx. 78227





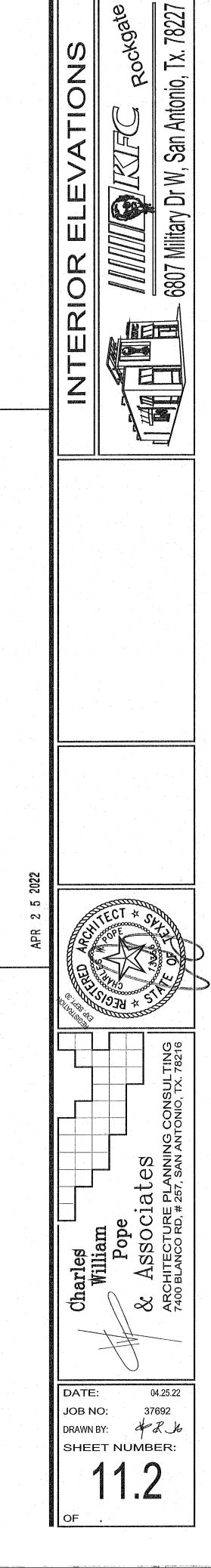




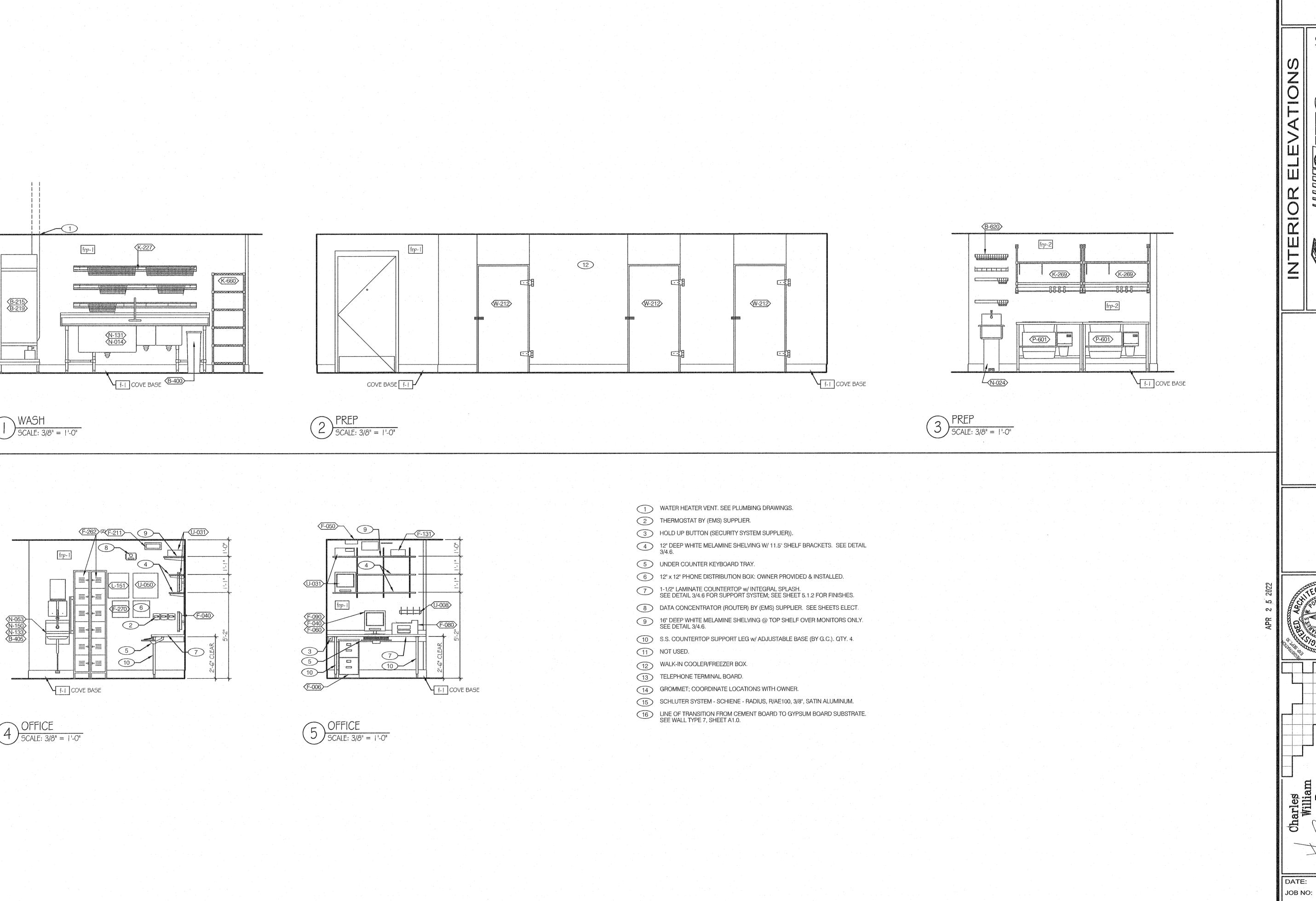
7 PACK LINE

SCALE: 3/8" = 1'-0"

- 6" X 6" STAINLESS STEEL CHASE ALONG WALL FOR ICE MACHINE REFRIGERANT LINES: CEILING TO TOP OF ICE MACHINE; BY GENERAL CONTRACTOR.
- 2 ANSUL CABINET.
- 3 8" x 12" OPENING FOR SYRUP / FILTERED WATER TUBE BUNDLE. SEE 9/4.6.
- 4 S.S. CORNER / END WALL CHANNEL GUARD, FULL HEIGHT. SEE 14/4.4.
- 5 HOLD-UP BUTTON; SEE ELEC.
- 6 S.S. END SKIRT.
- 7 HAND SINK FOOT PEDAL. SEE PLUMB...
- 8 EDGE OF 20 GAGE STAINLESS STEEL PANEL BEHIND HOOD. COORDINATE EXTENTS OF PANEL BEYOND HOOD WITH LOCAL CODE REQUIREMENTS.
- 9 S.S. SPLASH GUARD. SEE DETAIL 6/4.6.
- 10 GAS RISER. SEE PLUMB.
- 11 SYRUP / FILTERED WATER TUBE BUNDLES FOR DRINK SYSTEM.
- 12 ELECTRICAL PANELS.



3/8" = 1:-0"



KFR-11_1 IntElevs.dwg

SHEET NUMBER:

WW. San Antonio, Tx. 78227

	OWNER		FC / PH E sponsi i	BILITIES	Updated: April 2018
ITEM	OWNER PROVIDED	OWNER INSTALL	G. C. PROVIDED	G. C. INSTALL	COMMENTS
BUILDING EXTERIOR SIGNAGE		**************************************			TO BE DELIVERED TO SIGN YARD NOT JOBSITE
LOGO/GRAPHICS FOR TOWER PANEL - see elevations	X	Χ			BY SIGN CONTRACTOR - Contracted by Owner
CHANNEL LETTERS - see elevations	Х	Χ			BY SIGN CONTRACTOR - Contracted by Owner
EXTERIOR WALL GRAPHICS & LOGOS - see elevations	Х	Χ			BY SIGN CONTRACTOR - Contracted by Owner
SPECIALTY PARPET SIGNAGE - see elevations	X	Χ			BY SIGN CONTRACTOR - Contracted by Owner
TOWER FEATURE LID (KFC) CANOPY	Х	Х			BY SIGN CONTRACTOR - Contracted by Owner
DRIVE THRU CANOPY - see site plan	Х	Χ			BY SIGN CONTRACTOR - Contracted by Owner
(KFC) SHUTTER AWNINGS - see elevations	X	Х			BY SIGN CONTRACTOR - Contracted by Owner
ADDRESS NUMBERS			X	Х	PER FIRE DEPARTMENT
SITE SIGNAGE & LIGHTING					
PARKING LOT LIGHTING			X	X	
MONUMENT -OR- POLE SIGNAGE	Х	Х			BY SIGN CONTRACTOR - Contracted by Owner
CONCRETE FOOTING FOR MONUMENT -OR- POLE SIGNAGE	Х	Х	<u> </u>	<u> </u>	BY SIGN CONTRACTOR - Contracted by Owner
BUILDING EXTERIOR LIGHTS					
CANOPY LIGHTS	X	Χ			BY SIGN CONTRACTOR - Contracted by Owner
LED STRIP LIGHTS (Taco Bell)	X			Х	
EXTERIOR EMERGENCY EXIT LIGHTS			Х	Х	
EXTERIOR WALL SCONCE WALL PACK	Х			Х	
EXTERIOR WALL FLOOD LIGHT 'FL1'	Х			Х	
EXTERIOR LIGHTING CONTROL PANEL			Х	Х	
BUILDING INTERIOR LIGHTS			***************************************		
DROP PENDANT LIGHTING	X	en enderse en		х	
TRACK LIGHTING	Х			Х	
ALL GENERAL LIGHT FIXTURES	· .		Х	Х	
DRIVE-THRU					
DRIVE-THRU DETECTOR LOOPS	Х	<u> </u>		Х	
ORDER POINT CANOPY	Х	Х			BY SIGN CONTRACTOR - Contracted by Owner
DRIVE THRU SPEAKER STAND	Х	Х			BY SIGN CONTRACTOR - Contracted by Owner
DRIVE-THRU MENU BOARDS	Х	Х			BY SIGN CONTRACTOR - Contracted by Owner
LOW CLEARANCE BAR	Х	-		X	BY SIGN CONTRACTOR - Contracted by Owner
ORDER CONFIRMATION BOARD	Х			Х	BY SIGN CONTRACTOR - Contracted by Owner
CONCRETE FOOTING FOR ORDER POINT CANOPY		mainimat magta ya a mitaratika tahun ingan onto ya tarana matahami	X	Х	BOLT PATTERN PROVIDED BY OWNER - sign vendor
CONCRETE FOOTING FOR DRIVE THRU SPEAKER STAND			X	Х	BOLT PATTERN PROVIDED BY OWNER - sign vendor
CONCRETE FOOTING FOR DRIVE THRU MENU BOARDS			X	X	BOLT PATTERN PROVIDED BY OWNER - sign vendor
CONCRETE FOOTING FOR LOW CLEARANCE BAR		· · · · · · · · · · · · · · · · · · ·	X	X	BOLT PATTERN PROVIDED BY OWNER - sign vendor
CONCRETE FOOTING FOR ORDER CONFIRMATION BOARD		·	X	X	BOLT PATTERN PROVIDED BY OWNER - sign vendor
BOLLARDS @ BUILDING			X	X	
DRIVE-THRU WINDOWS					
PASS THRU (DRIVE-THRU) WINDOW	Х			Х	
DRIVE-THRU WINDOW TRANSOMS & SIDE LITES			X	Х	MATCH DRIVE THRU WINDOW
FLY FANS W/ MICRO SWITCHES			X	Х	(IF SHOWN ON PLANS)
MISCELLANEOUS		•			
HVAC UNITS			X	X	
		·			
ROOF LADDER		***************************************		^	

ITEM	OWNER	OWNER	G. C.	G. C.	COMMENTS
	PROVIDED	INSTALLED	PROVIDED	INSTALLED	
WALK-IN COOLER / FREEZER ALK-IN COOLER/FREEZER			X	x	CEILING HEIGHT TO BE 8'-6" CLEAR
ALK-IN LIGHT FIXTURES			X	X	OEIEINO FIEIOTT TO BE O' O'EE/III
NDENSATE LINES			Х	X	
W TEMP / DEFROST TIMER	X	X	V		
ART-UP			X	X	
EXHAUST HOODS & FANS					
THERMALIZER HOOD (Taco Bell)	X			X	
E SUPPRESSION PRE-PIPING	X			X	
SUL SYSTEM			Х	Х	(PRE-PLUMMED - CHARGE & STARTUP BY GC)
EASE DUCTS / FIRE WRAP THROOM EXHAUST FANS			X	X	
TINOOWIENIAGOTTANG			^		
PLUMBING/TOILET ACCESSORIES					
AB BARS			X	x	SEE SHEET 3.4 INTERIOR ELEVATIONS & TOILET PLAN
RORS			Χ	Х	SEE SHEET 3.4 INTERIOR ELEVATIONS & TOILET PLAN
PER TOWEL DISPENSER	 		X	X	SEE SHEET 3.4 INTERIOR ELEVATIONS & TOILET PLAN
AP DISPENSER - 2 EA LET PAPER DISPENSER	X	X	X	X	SEE SHEET 3.4 INTERIOR ELEVATIONS & TOILET PLAN
IITARY NAPKIN DISPOSAL			X	X	SEE SHEET 3.4 INTERIOR ELEVATIONS & TOILET PLAN
SH RECEPTACLE - 2 EA			Χ	Х	SEE SHEET 3.4 INTERIOR ELEVATIONS & TOILET PLAN
P SINK SINK STATION	V		X	X	
SET RACK WATER HEATER	X	<u> </u>	X	X	
CETS FOR ALL SINKS IN KITCHEN AND RESTROOMS			X	X	SEE MEP SPECIFICATIONS
INTERIOR MENU BOARDS					
ERIOR MENU BOARDS	Х	х			PROVIDE ELECTRICAL FOR DIGITAL MENU BOARDS
RIOR MENU BOARDS - J-Box & Fianl Connections			Х	Х	
OTABLE PAG OTEST INC.					
STAINLESS STEEL ITEMS					
CHEN CORNER GUARDS WALL PANELS BEHIND HOODS			X	X	
VIVILLE I AIVELO DEL III O TIOGOGO					
KITCHEN EQUIPMENT					TO BE UNLOADED BY G. C.
OKING EQUIPMENT	X			x	
ELVING / WORK STATIONS	Х			X	
OMP. PWR SOAK SINK W/ FAUCET-1 EA	X			X	
OMP. SINK W/ FAUCET- 1 EA ND SINKS W/ FAUCETS & FT PEDALS	X			X	
DD PREPARATION ITEMS	X			X	
RVING & DRIVE-THRU ITEMS	Х			Х	
ND ALONE COOLERS & FREEZERS	X			X	
FEE EQUIPMENT MACHINES START-UPS	X			X	CONTRACTOR INSTALLS CONDENSERS AND MACHINES
MACHINE LINES	X			X	CONTINUE MEDICAL MEDIC
E & POS SYSTEMS	Х	Х			CONDUIT & WIRE BY VENDOR
ALL WARES	Х	Х			
TEA EQUIPMENT	X	X	:		BY VENDOR
ECIALTY DRINKS (IF SHOWN)	X	X	<u> </u>		BY VENDOR
SEATING & DÉCOR		1			TO DE LINI CADED DV C. C.
RE DRILLING FOR BOOTHS & TABLES			Х	X	TO BE UNLOADED BY G. C. (MAY BE FREESTANDING)
OTHS, TABLES & CHAIRS	X	<u> </u>	^ -	X	(MAT DE LIVELOTAMDINO)
DER & HALF WALLS - AT SEATING	Х			X	
BINETS & DRINK STATION	Х			Х	
C & TACO BELL) SERVICE COUNTER AND TOP ZA HUT) SERVICE COUNTER & TOP	Х		X	X	
LL GRAPHICS	X		^	X	
NG ROOM CEILING DÉCOR FEATURE ("CLOUD") - IF SHOWN	X			X	
DINING & BATHROOM FINISHES					
NG ROOM WAINSCOT	Х			X	
IDOW SILLS	X			X	
OD CHAIR RAIL NKSTATION WALL PANEL	X			X	
NG & BATHROOM FLOOR TILE & BASE		<u> </u>	X	X	
HROOM WALL TILE			Х	Х	
CHEN FLOOR TILE / BASE			X	X	
L TILE BEHIND COUNTER			X	X	
MISCELLANEOUS					
E ALARM SYSTEM			X	x	COORDINATE w/ OWNER'S VENDOR
WATER HEATER		<u> </u>	X	X	SOSILSIA VIL VII OVVINEIVO VENDOIV
EXTINGUISHERS			X	X	PROVIDE THREE (3) LOCATE PER FIRE MARSHAL
CURITY SYSTEM	Х	X			
NIDITY CAMEDAG	X	X		ļ	
		v ····		,	
SIC SYSTEM	X	X			
CURITY CAMERAS SIC SYSTEM F. PREVENTERS FOR DRINK STATIONS EPHONE SYSTEM	Х				CONTRACTOR TO PROVIDE CONDUIT DROPS IN WALLS
SIC SYSTEM . PREVENTERS FOR DRINK STATIONS	X	Х			CONTRACTOR TO PROVIDE CONDUIT DROPS IN WALLS

DECOR NOTE:
ALL FURNITURE TO BE FREESTANDING UNLESS UNAVAILABLE

REVISIONS:

MINITED/INSTECT ROCKgate 6807 Military Dr W, San Antonio, Tx. 78227

TECT # SATURATION OF THE SATUR

William
Pope

& ASSOCIATES

ARCHITECTURE PLANNING CONSULTING
CONSU

E: 04.
NO: 376:

BY: 4 R J

12.1