# CONSTRUCTION PLANS FOR

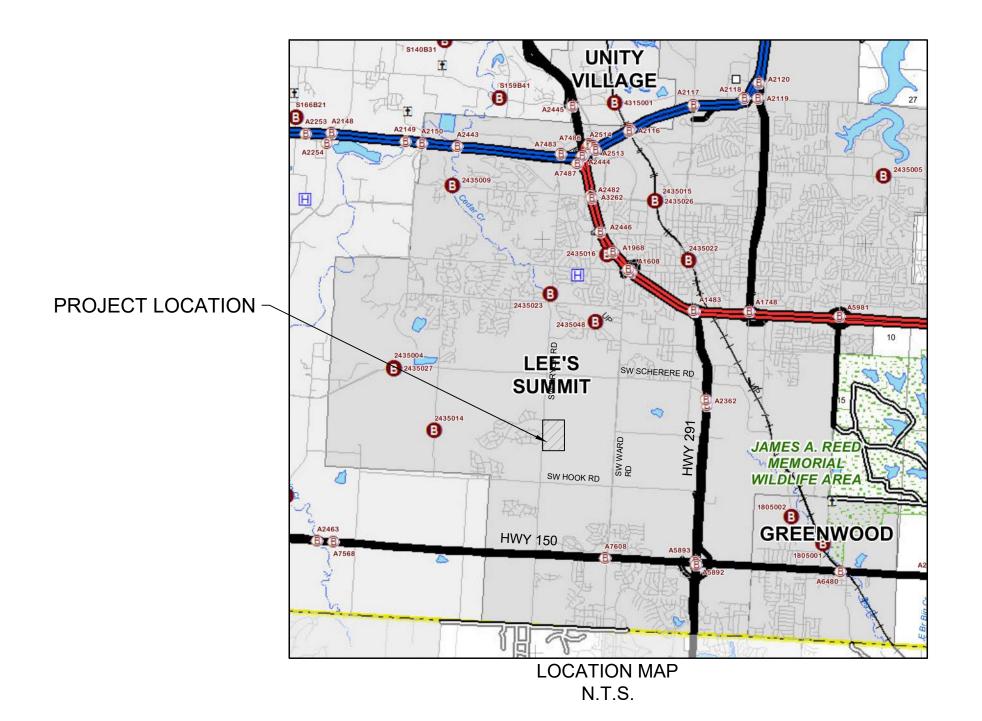
# WHISPERING WOODS AMENITY AREA

CITY OF LEE'S SUMMIT JACKSON COUNTY, MISSOURI

# **DESCRIPTION**

PROPERTY DESCRIPTION CONTAINING 105.623 SQUARE FEET OR 2.42 ACRES

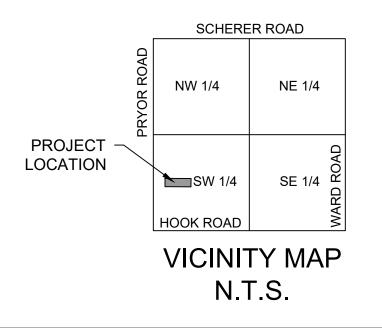
TRACT C OF WHISPERING WOODS, 1ST PLAT, LOTS 1-33



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UTILITY SERVICE NUMBERS										
SPECTRUM	886-874-2389									
EVERGY	816-220-5213									
SPIRE GAS	816-399-9633									
LEE'S SUMMIT PUBLIC WORKS	816-969-1800									
CITY PLANNING & DEVELOPMENT	816-969-1600									
FIRE DEPARTMENT	816-969-1300									





APPROVED:

City Engineer

Date

# **DEVELOPER**:

WHISPERING WOODS LAND, L.L.C. 803 P.C.A. ROAD WARRENSBURG, MO 64093 AGENT: RICK FRYE PHONE: 816.564.2230 FAX: 660.429.1801



Sheet C1.0

### EE'S SUMMIT NOTES

- CONTRACTOR SHALL REFER TO THE CURRENT VERSION OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION (D&C) MANUAL.
- ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING DEPARTMENT OF LEE'S SUMMIT, MISSOURI.
- LINEAL FOOT MEASUREMENTS SHOWN ON THESE PLANS ARE HORIZONTAL MEASUREMENTS. NOT SLOPE MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS.
- NO GEOLOGICAL INVESTIGATION WAS PERFORMED ON THIS PROJECT.
- THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS AND ARE APPROXIMATE ONLY. THEY DO NOT CONSTITUTE ACTUAL FIELD LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES.
- ALL WASTE MATERIAL SHALL BE DISPOSED OF AT A LOCATION TO BE SELECTED BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE, SUCH LOCATION TO BE ON THE SITE.
- THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING AL PHASES OF CONSTRUCTION, HE SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS AND FOLLOW THE EROSION CONTROL PLAN PREPARED BY THE DESIGN ENGINEER.
- ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.
- SUBGRADE SOIL FOR ALL CONCRETE STRUCTURES, REGARDLESS OF THE TYPE OR LOCATION, SHALL BE FIRM, DENSE AND THOROUGHLY COMPACTED AND CONSOLIDATED; SHALL BE FREE FROM MUCK AND MUD; AND SHALL BE SUFFICIENTLY STABLE TO REMAIN FIRM AND INTACT UNDER THE FEET OF THE WORKMAN OR MACHINERY ENGAGED IN SUBGRADE, LAYING REINFORCING STEEL, AND DEPOSITING CONCRETE THEREON. IN ALL CASES WHERE SUBSOIL IS MUCKY OR WORKS INTO MUD OR MUCK DURING SUCH OPERATION, A SEAL COURSE OF EITHER CONCRETE OR ROCK SHALL BE PLACED BELOW SUBGRADE TO PROVIDE A FIRM BASE FOR WORKING AND FOR PLACING THE FLOOR SLAB.
- A MINIMUM HORIZONTAL DISTANCE OF TEN FEET (10') SHALL BE MAINTAINED BETWEEN PARALLEL WATER AND SANITARY SEWER LINES. AT ANY POINT WHERE SANITARY SEWER LINES CROSS WATER MAIN, THE SANITARY SEWER SHALL BE CONSTRUCTED OF CAST IRON PIPE OR PIPE ENCASED IN CONCRETE FOR A DISTANCE OF TEN FEET (10') IN EACH DIRECTION FROM THE CROSSING UNLESS THE WATER IS A MINIMUM OF EIGHTEEN INCHES (18") ABOVE THE TOP OF THE SANITARY SEWER LINE.
- CONTRACTOR SHALL PROVIDE TESTING AND INSPECTION PER SECTION 3500 -SANITARY SEWERS CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS.
- . DEVELOPMENT PLANS ARE APPROVED INITIALLY FOR ONE (1) YEAR, AFTER WHICH THEY AUTOMATICALLY BECOME VOID AND MUST BE UPDATED AND APPROVED BY THE CITY ENGINEER BEFORE ANY CONSTRUCTION WILL BE PERMITTED.
- 4. ALL SANITARY SEWER STUBS SHALL BE SURVEYED AND STAKED ON SITE BEFORE THE CONSTRUCTION OF SANITARY SERVICE STUBS.
- 15. THE CITY OF LEE'S SUMMIT PLAN REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH THE CITY OF LEE'S SUMMIT DESIGN CRITERIA AND THE CITY CODE. THE CITY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, OR DIMENSIONS AND ELEVATIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE. THE CITY OF LEE'S SUMMIT THROUGH APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY OTHER THAN AS STATED ABOVE FOR THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.
- . THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE PLANS (APPROVED BY THE CITY OF LEE'S SUMMIT) AND ONE (1) COPY OF THE APPROPRIATE CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL
- CONSTRUCTION OF THE IMPROVEMENTS SHOWN OR IMPLIED BY THIS SET OF DRAWINGS SHALL NOT BE INITIATED OR ANY PART THEREOF UNDERTAKEN UNTIL THE CITY ENGINEER IS NOTIFIED OF SUCH INTENT AND ALL REQUIRED AND PROPERLY EXECUTED BONDS AND PERMIT FEES ARE RECEIVED AND APPROVED BY THE CITY ENGINEER.
- ALL STUB LINES SHALL BE LAID ON 2.00% MINIMUM GRADE UNLESS APPROVED OTHERWISE.
- CONTRACTOR SHALL NOT BE ALLOWED TO WORK ON SATURDAYS, SUNDAYS, OR HOLIDAYS WITHOUT PRIOR APPROVAL OF THE CITY ENGINEER.
- 20. RELOCATION OF ANY WATER LINE, SEWER LINE OR SERVICE LINE THEREOF REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE AT HIS EXPENSE.
- 21. THE CONTRACTOR SHALL INSTALL AND PROPERLY MAINTAIN A MECHANICAL PLUG AT ALL CONNECTION POINTS WITH EXISTING LINES UNTIL SUCH TIME THAT THE NEW LINE IS TESTED AND APPROVED.
- 22. THE CONTRACTOR SHALL CONSTRUCT MANHOLES PLACING ECCENTRIC CONE SECTION IN SUCH A MANNER THAT MANHOLE COVERS ARE ADJACENT TO THE PROPOSED SIDEWALKS. IN LOCATIONS WHERE MANHOLES ARE NOT NEAR PROPOSED SIDEWALKS THE MANHOLE COVERS SHALL GENERALLY BE PLACED ON THE UPSTREAM SIDE OF THE MANHOLES WHENEVER POSSIBLE.
- 3. STUB LINES, LOCATIONS, AND MINIMUM BASEMENT FLOOR ELEVATIONS ARE LOCATED IN THE TABLE LABELED "TABLE OF SERVICE LOCATIONS."
- CONSTRUCTION PERMITS WILL NOT BE ISSUED UNTIL THE CITY OF LEE'S SUMMIT RECEIVES A SEWER EXTENSION PERMIT FROM MDNR.

- 25. CONNECTIONS TO EXISTING MANHOLES SHALL BE CORE DRILLED AND CONNECTED WITH A WATERTIGHT FERNCO GASKET OR APPROVED EQUAL. THE GASKET IS TO BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- 26. ALL AREAS WHERE UTILITIES ARE TO BE INSTALLED IN FILL SHALL BE COMPACTED TO 95% TO 18 INCHES ABOVE THE LINE THEN EXCAVATED FOR CONSTRUCTION OF THE LINE.
- 27. THE CONTRACTOR WILL BE RESPONSIBLE FOR TESTING OF MANHOLES AND PIPES TO THE CITY OF LEE'S SUMMIT DESIGN & CONSTRUCTION MANUAL REQUIREMENTS.
- 28. THE ENDS OF ALL SANITARY SEWER STUBS SHALL BE SURVEYED AND MARKED BEFORE CONSTRUCTION.
- 28. ALL UTILITY STREET CROSSINGS SHALL BE BACKFILLED WITH FLOWABLE FILL, OR AB-3. IF CONTRACTOR CHOOSES TO USE OTHER SUITABLE MATERIALS, EXTENSIVE SOIL TESTING REQUIREMENTS WILL BE REQUIRED.
- 30. TRENCH CHECKS SHALL BE USED FOR ALL SANITARY SEWER STUBS.

# PROJECT NOTES:

- 1. THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTORS 48 HOURS PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.
- GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION.
- PRIOR TO ORDERING PRECAST STRUCTURES: SHOP DRAWINGS SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL. UPON APPROVAL THESE SHALL BE SUBMITTED TO THE CITY OF LEE'S SUMMIT FOR REVIEW.
- 4. ALL WATER LINES, SANITARY SEWER LINES, AND STORM WATER DRAINAGE CROSSINGS SHALL BE IN PLACE OR A CASING PIPE PROVIDED FOR FUTURE INSTALLATION PRIOR TO BASE AND SURFACE ASPHALT COURSES.
- SIDEWALKS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY UNLESS OTHERWISE NOTES. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR HANDICAP RAMP CONSTRUCTION IN CURBS.
- REFER TO GRADING AND EROSION CONTROL SHEETS IN STREET AND STORM PLANS.
- 7. SITE TOPOGRAPHY TAKEN FROM SURVEY COMPLETED BY R.L BUFORD & ASSOCIATES. CONTRACTOR TO VERIFY EXISTING CONDITIONS OF THE SITE THAT MAY NOT BE REPRESENTATIVE OF CONSTRUCTION PLANS.
- PROTECT EXISTING TREES, SHRUBS, FENCE AND LANDSCAPING UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS. REPLACE ANY FENCE, TREES, SHRUBS, LANDSCAPING ITEMS, OR OTHER VEGETATION NOT SCHEDULED FOR REMOVAL THAT ARE DAMAGED DURING CONSTRUCTION OPERATIONS WITHOUT ADDITIONAL COMPENSATION.
- 9. NO OIL/GAS WELLS ARE PRESENT ON PROPERTY, PER MoDNR.

### LAND USE SCHEDULE:

TOTAL LOT AREA = 2.43 AC

TOTAL DISTURBED AREA = 0.47 AC

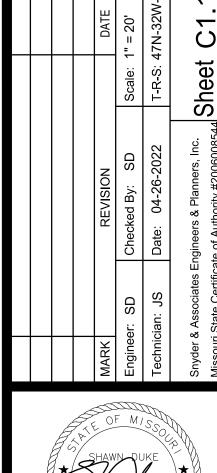
TOTAL BUILDING AREA = 0.016 AC

REQUIRED PARKING SPACES = 9

PROPOSED PARKING SPACES = 11

IMPERVIOUS COVERAGE = .293 AC = 12.06% OF TOTAL AREA

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SUMMIT

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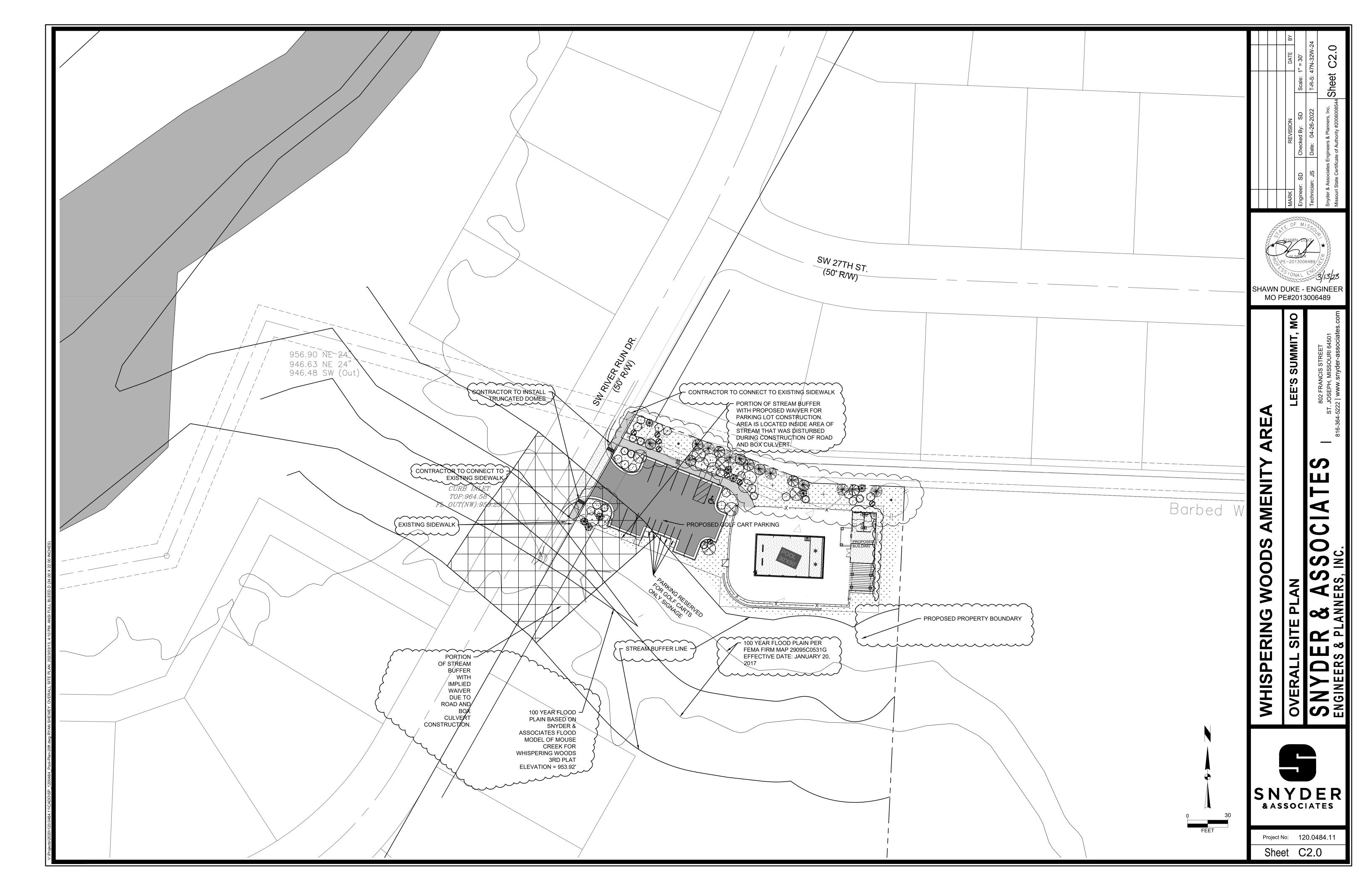
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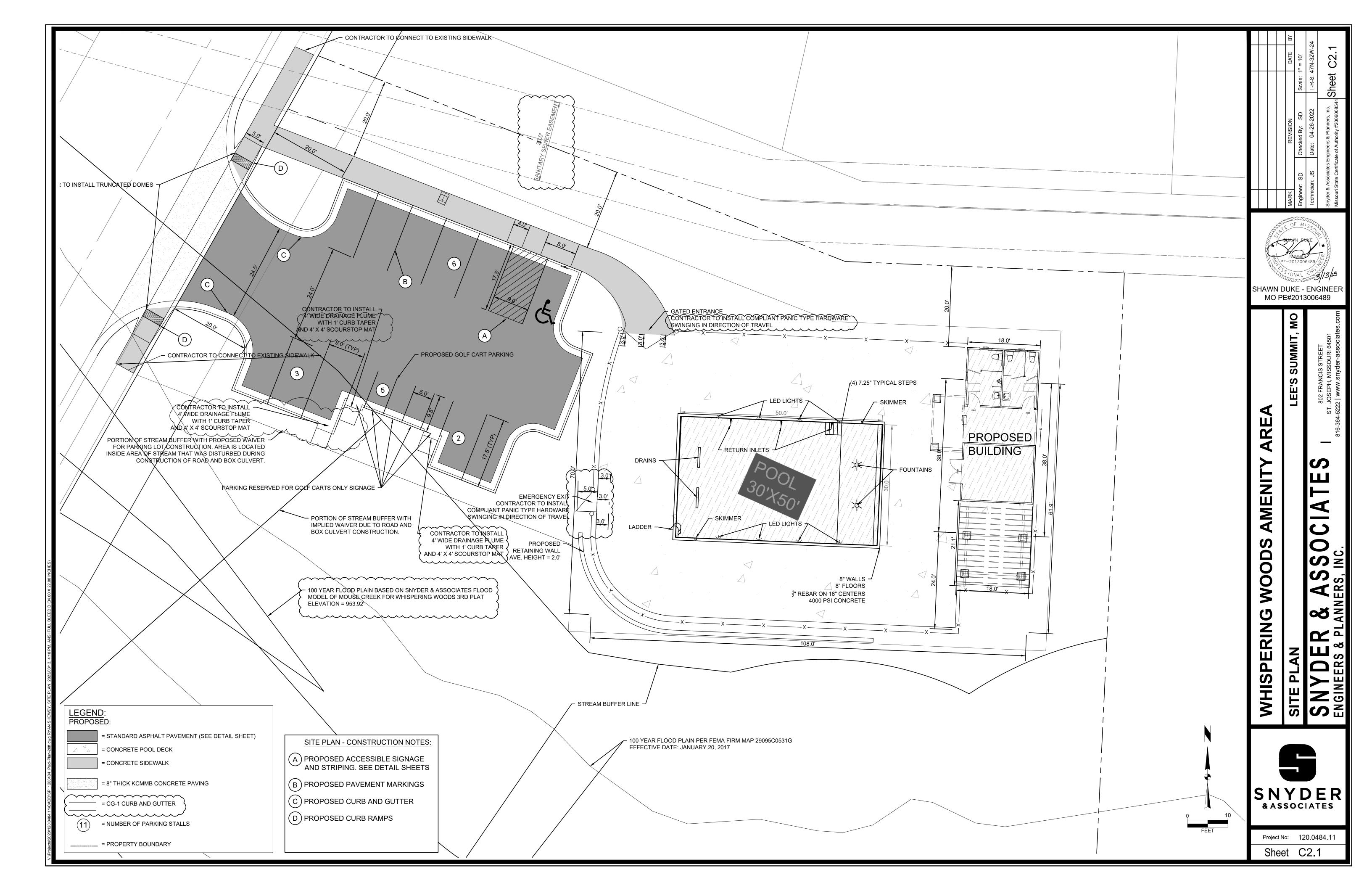
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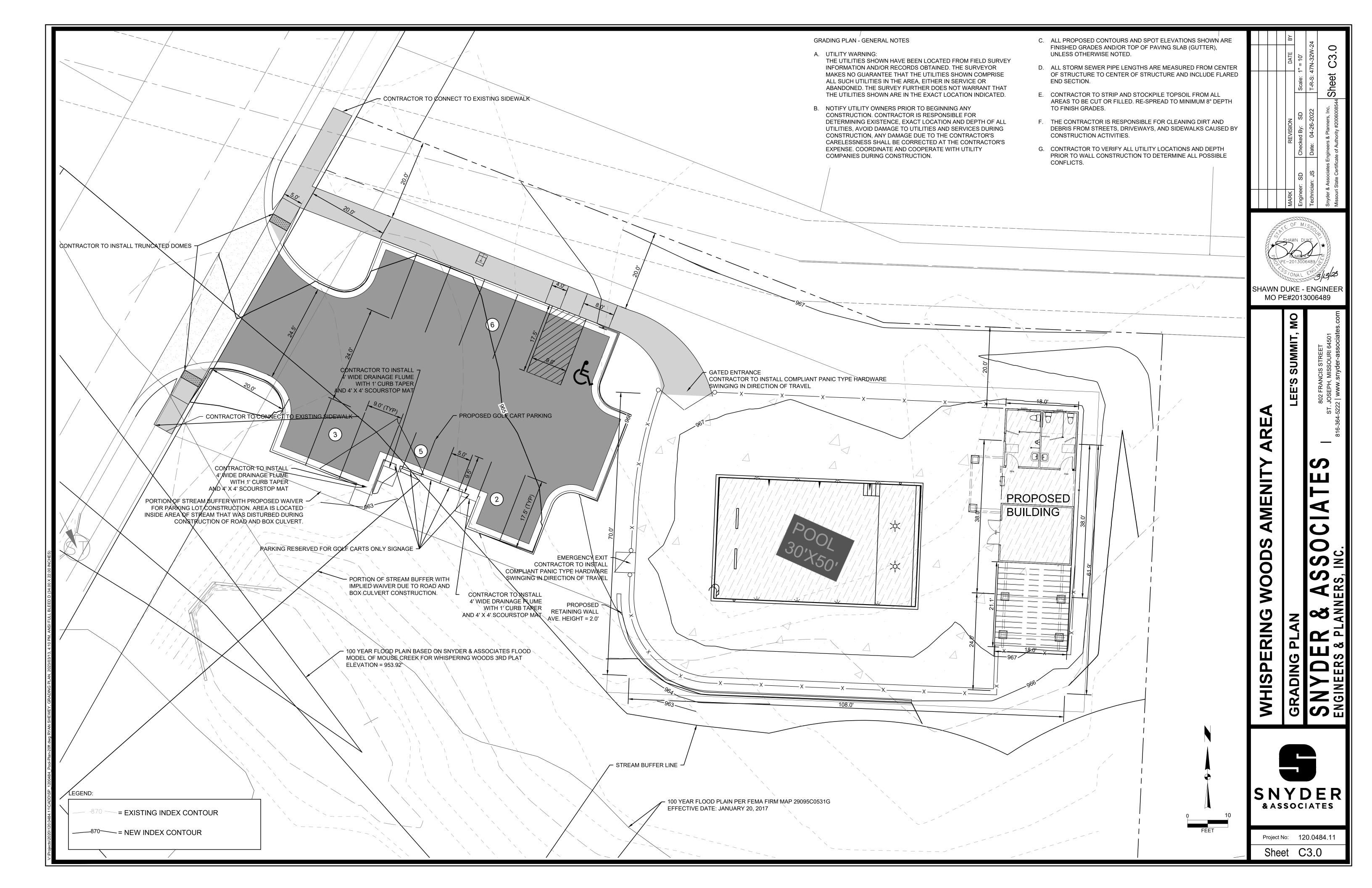
SNYDER & ASSOCIATES

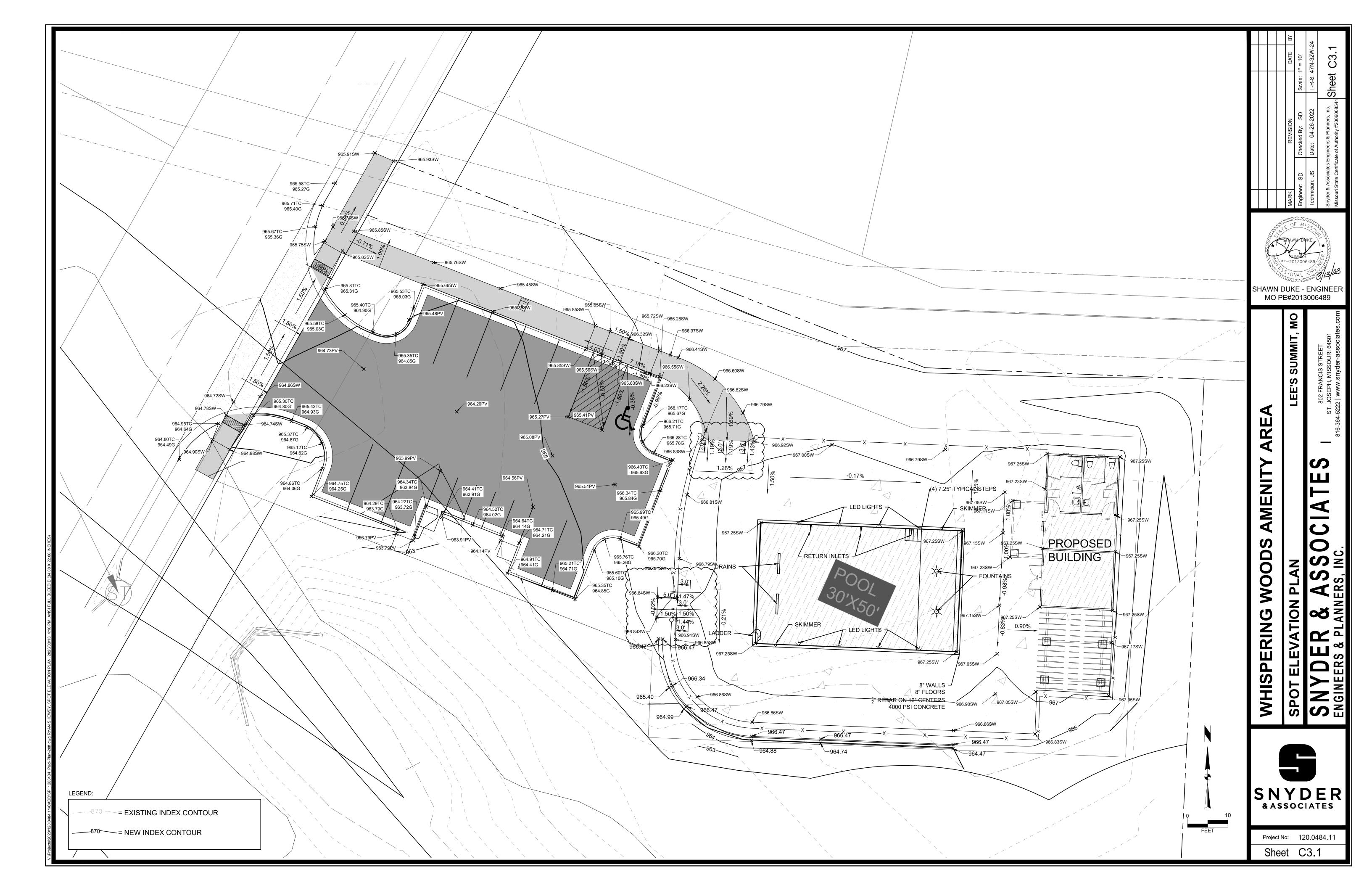
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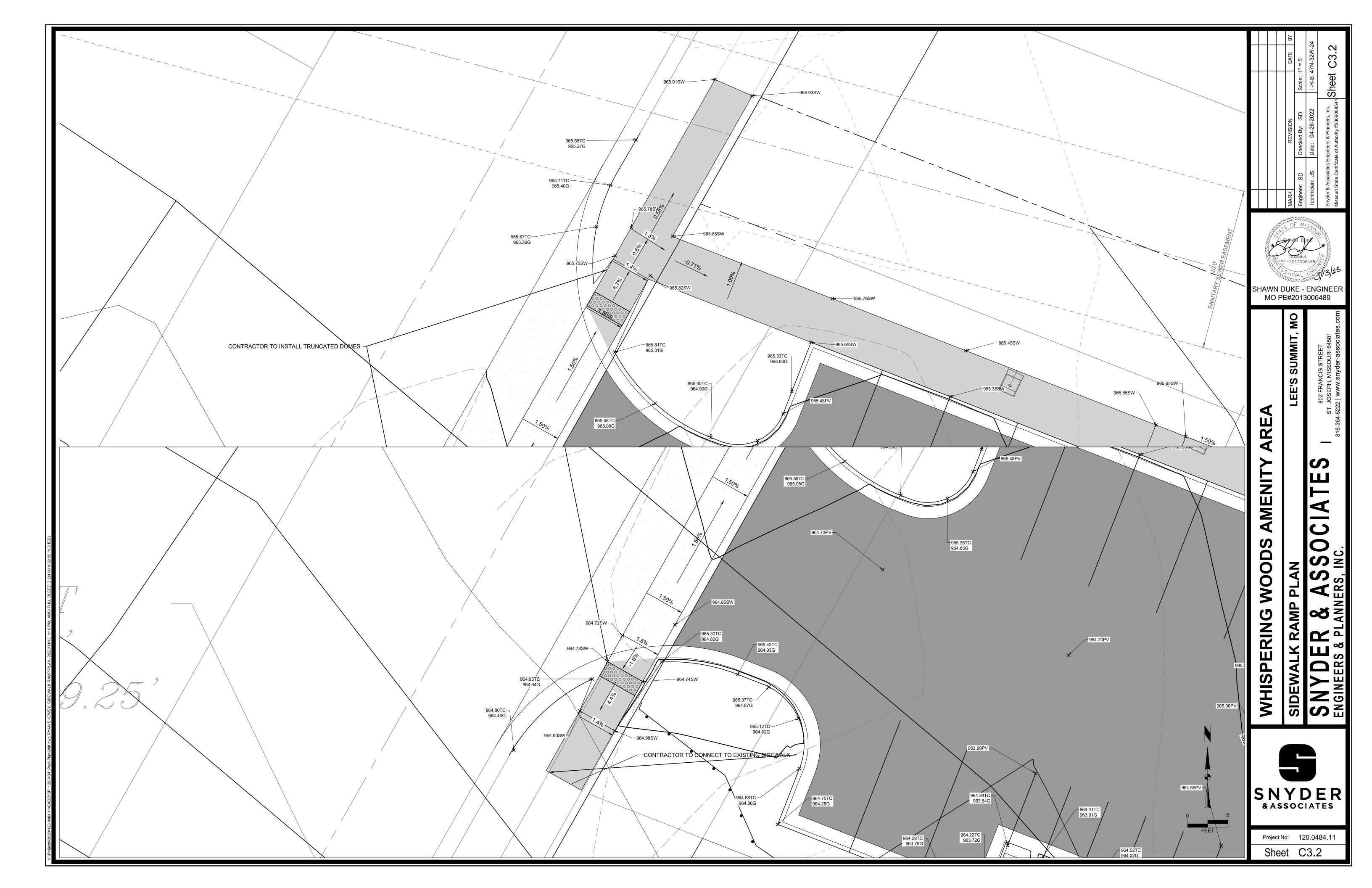
Sheet C1.1

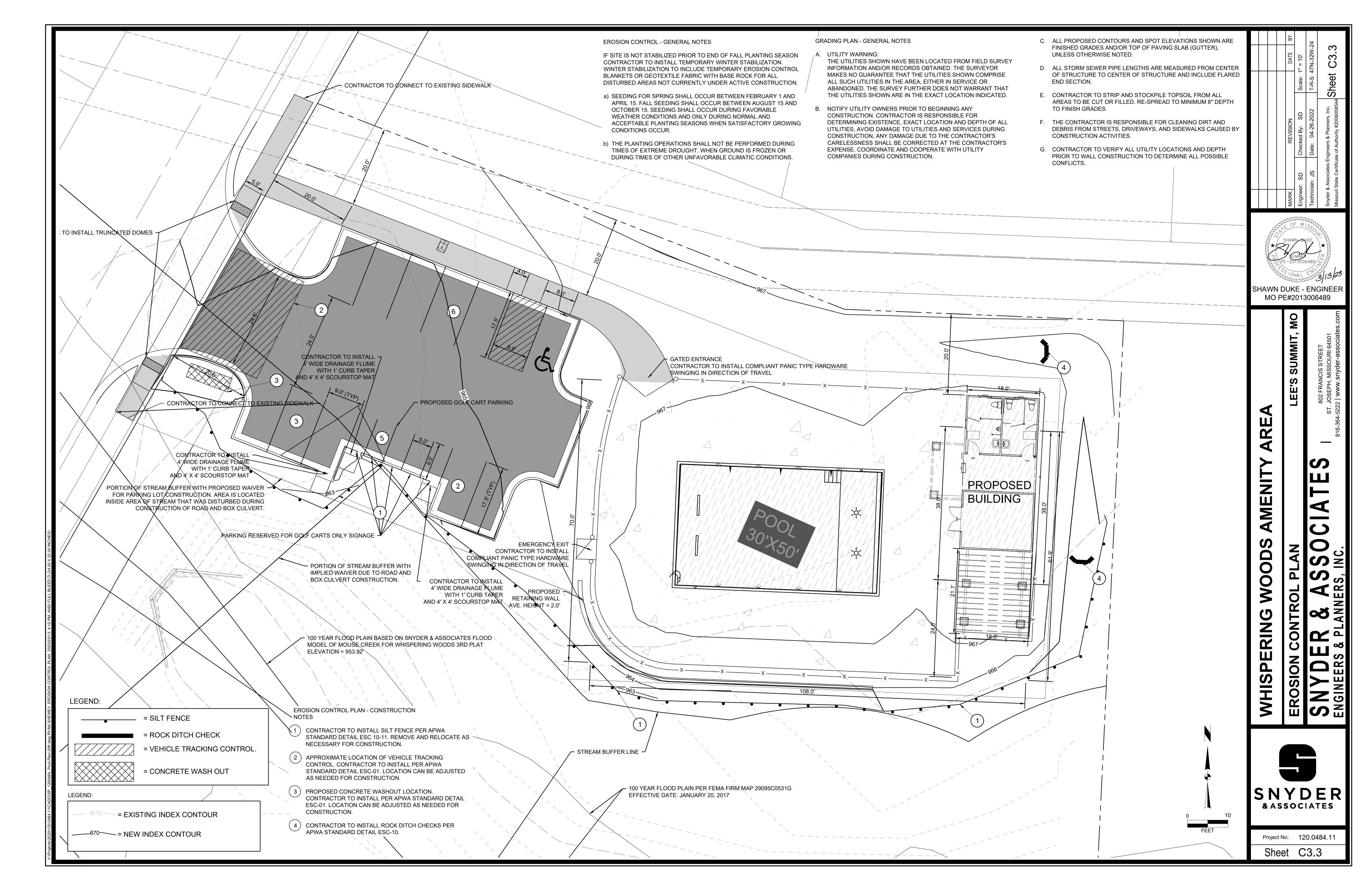


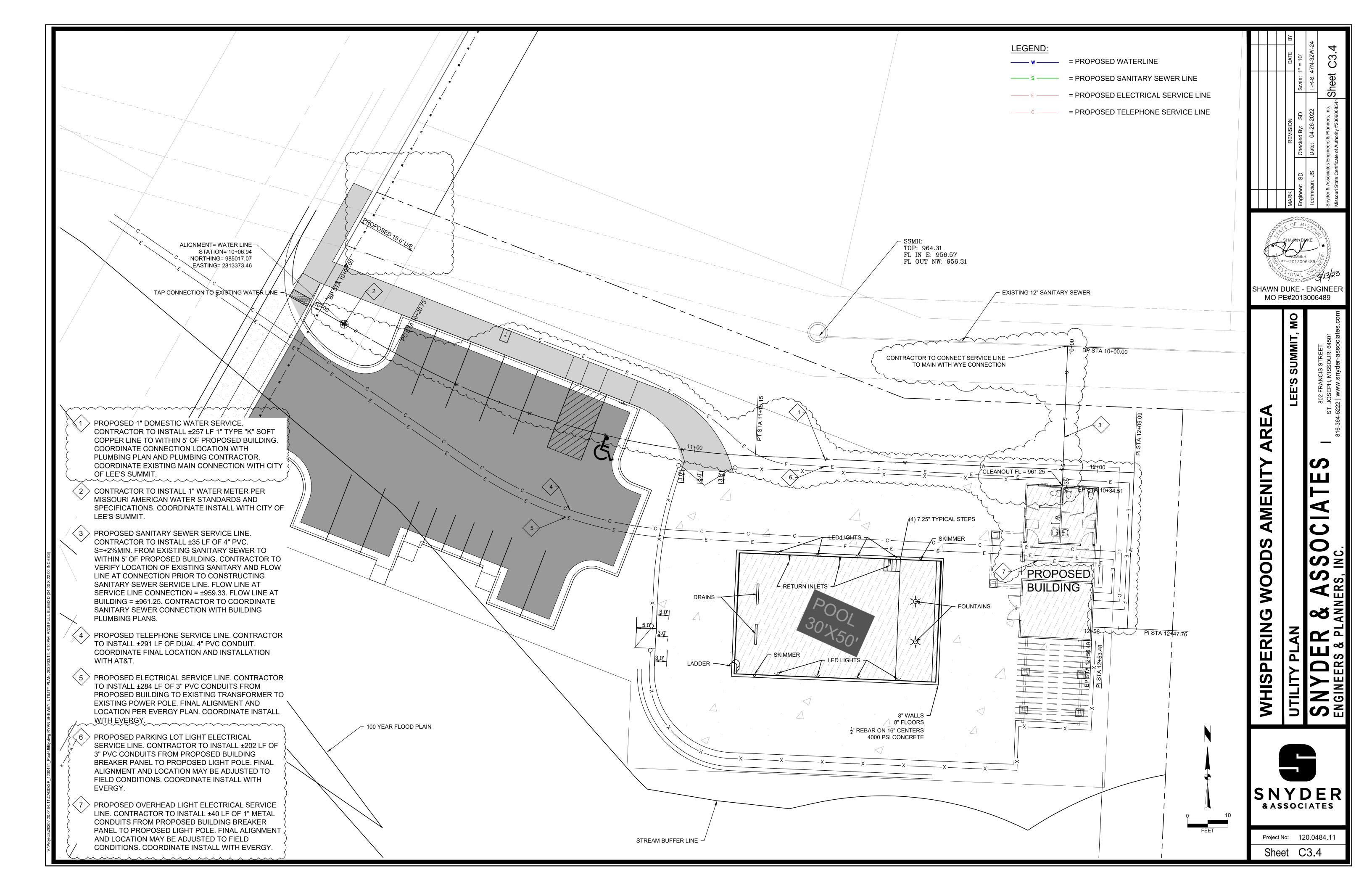


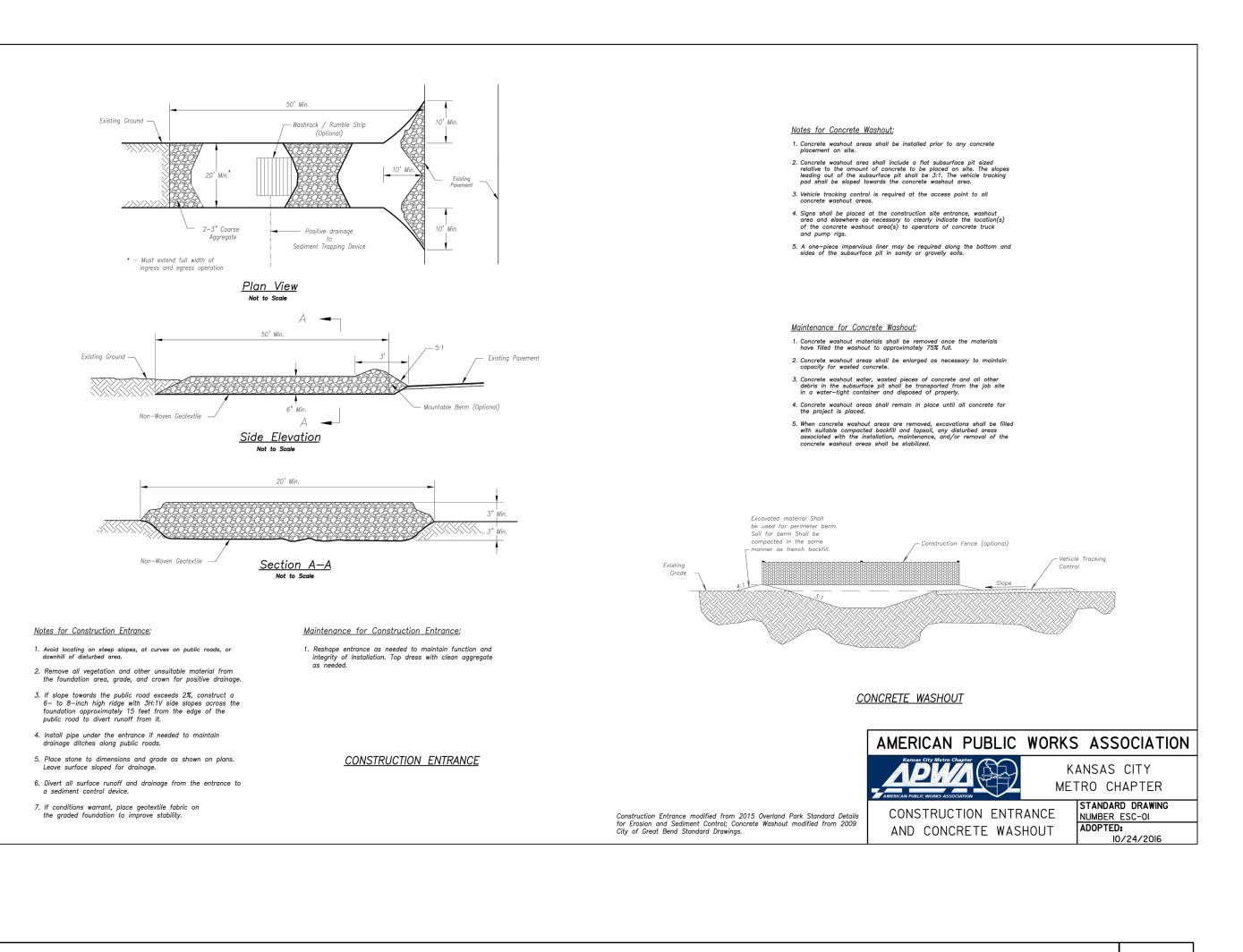


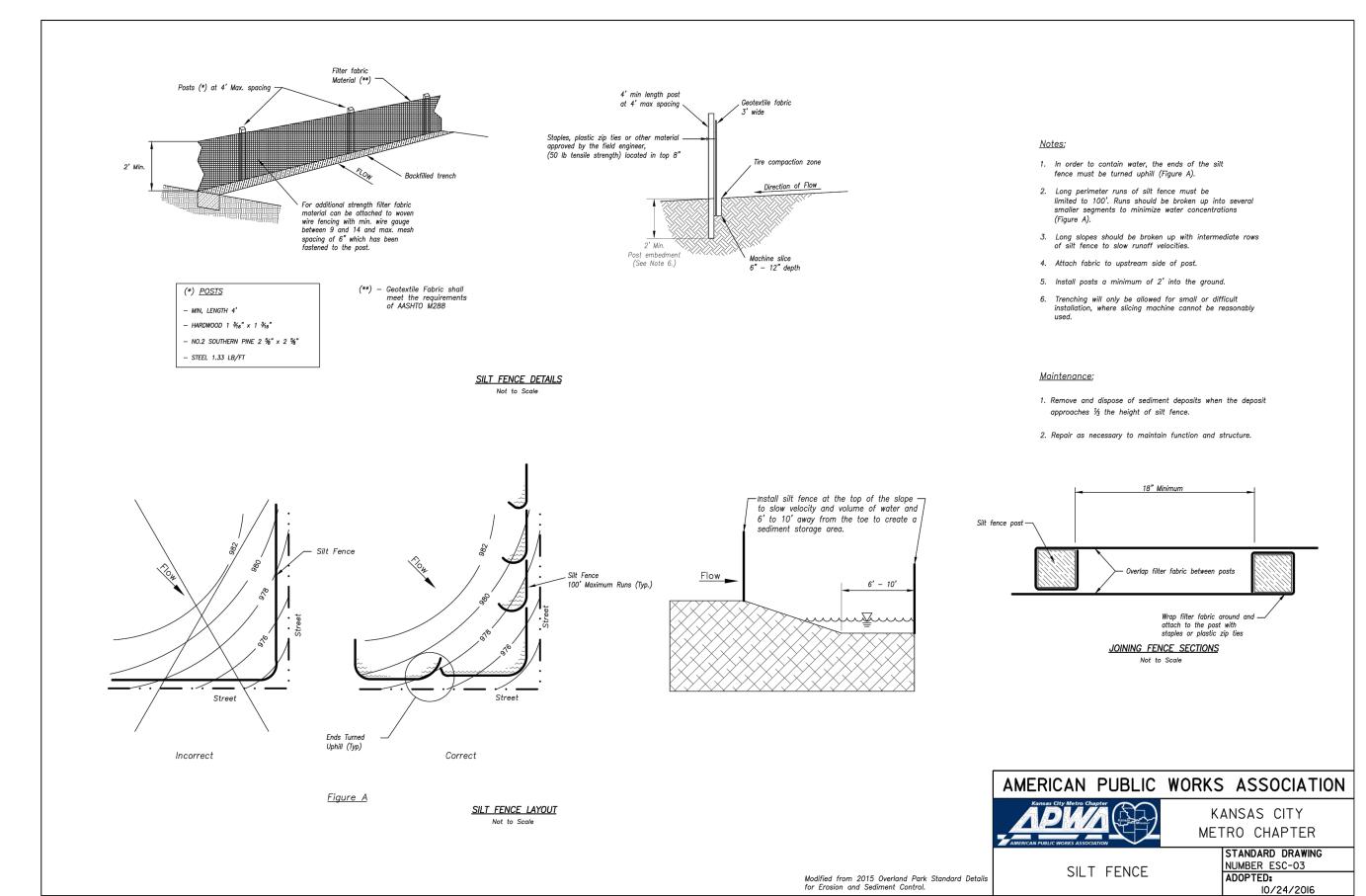


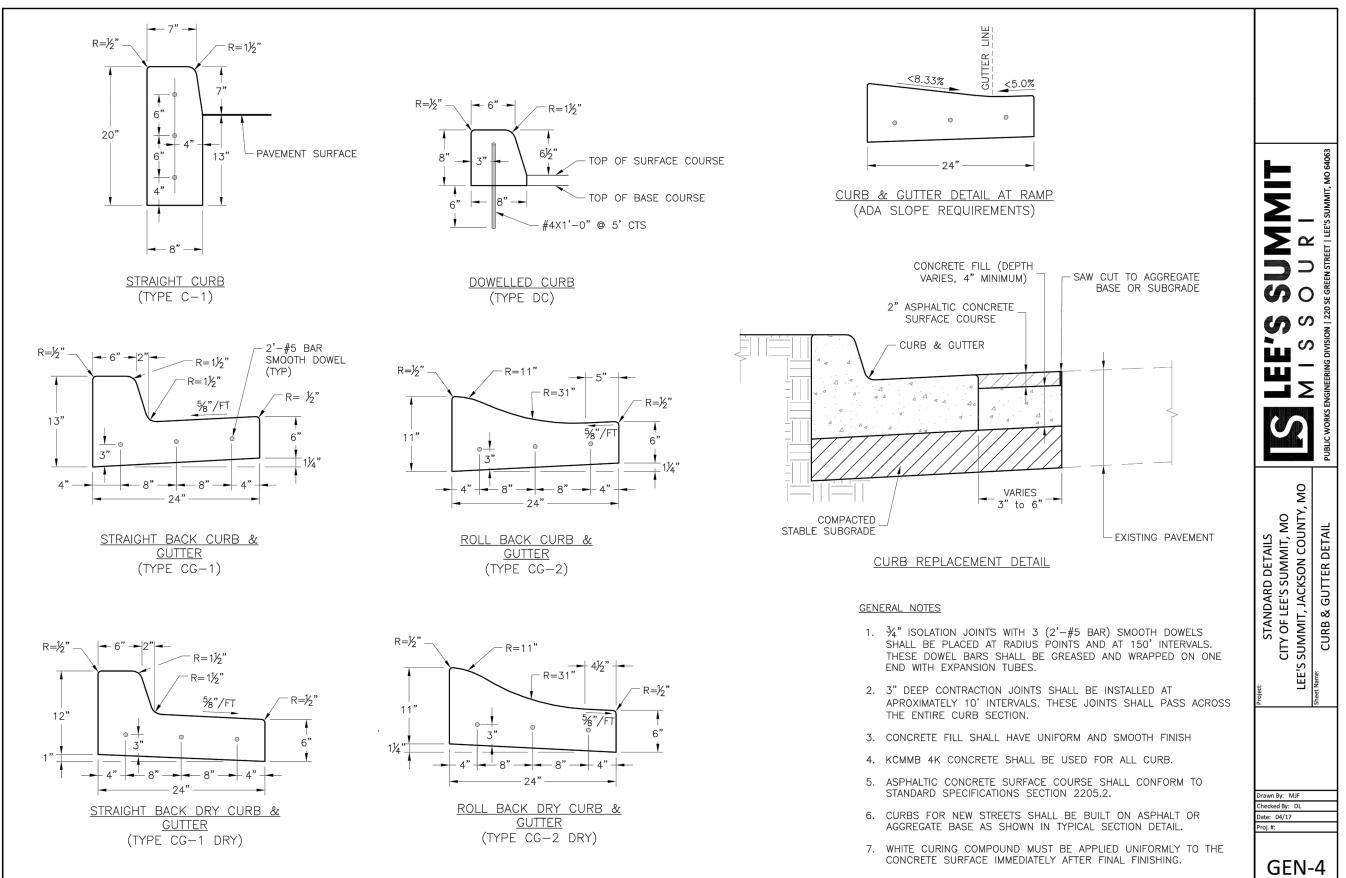


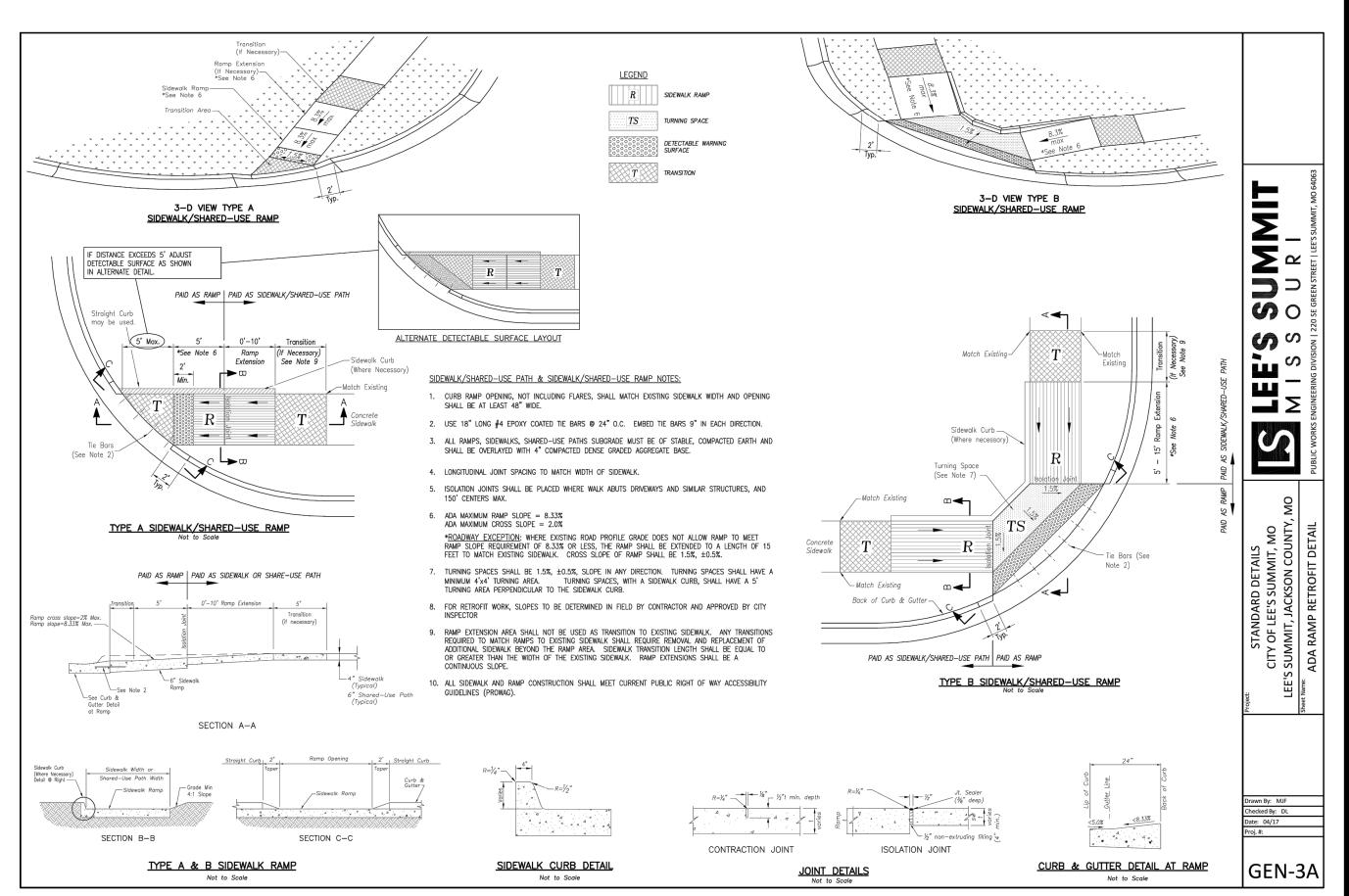


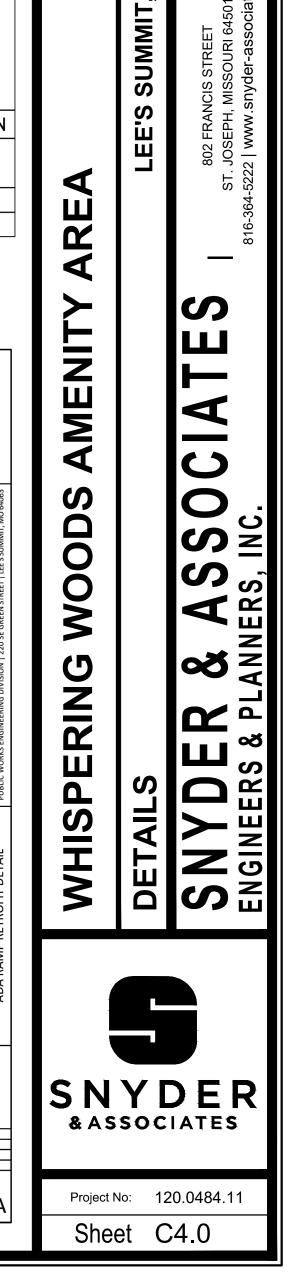






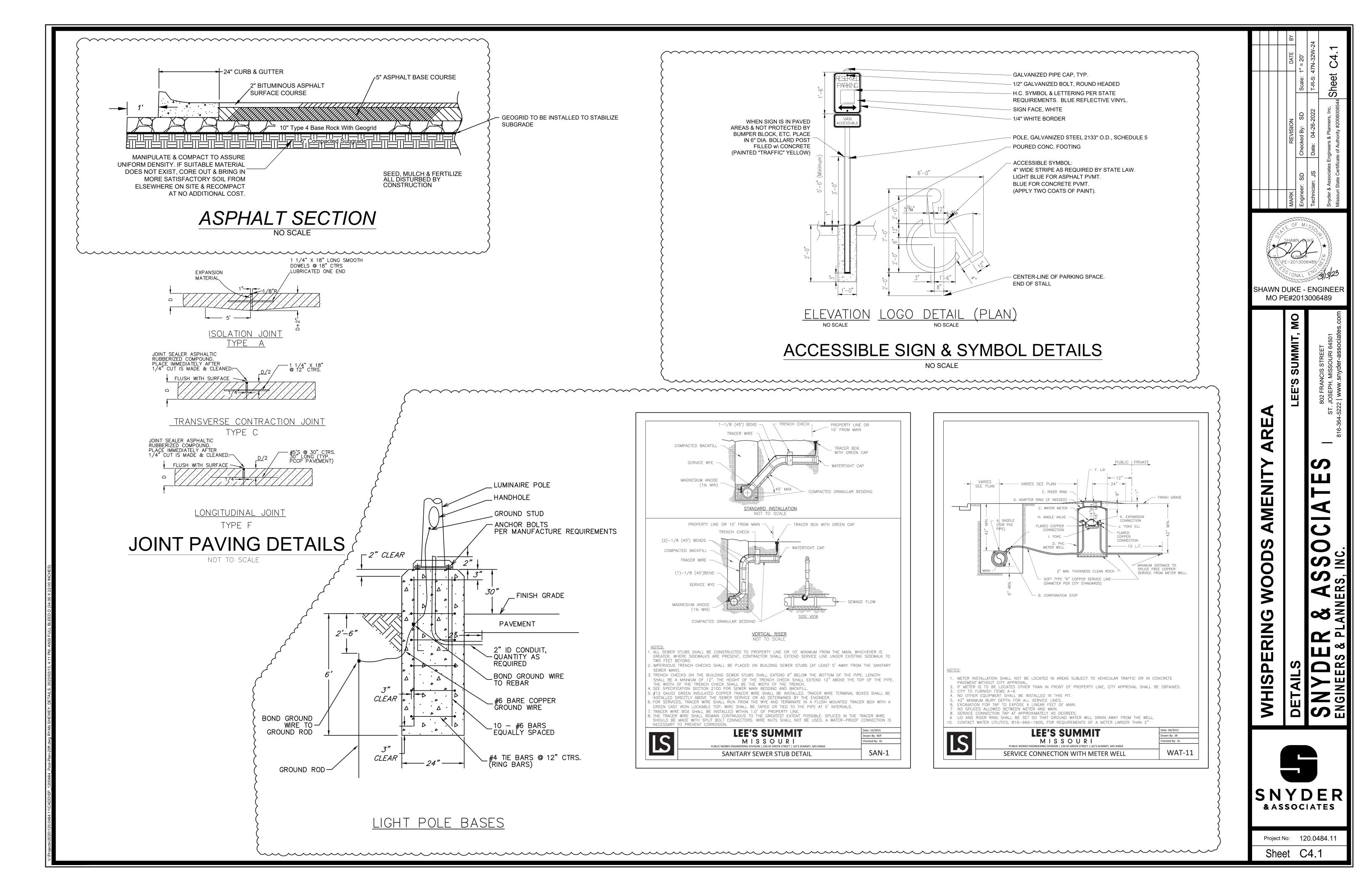


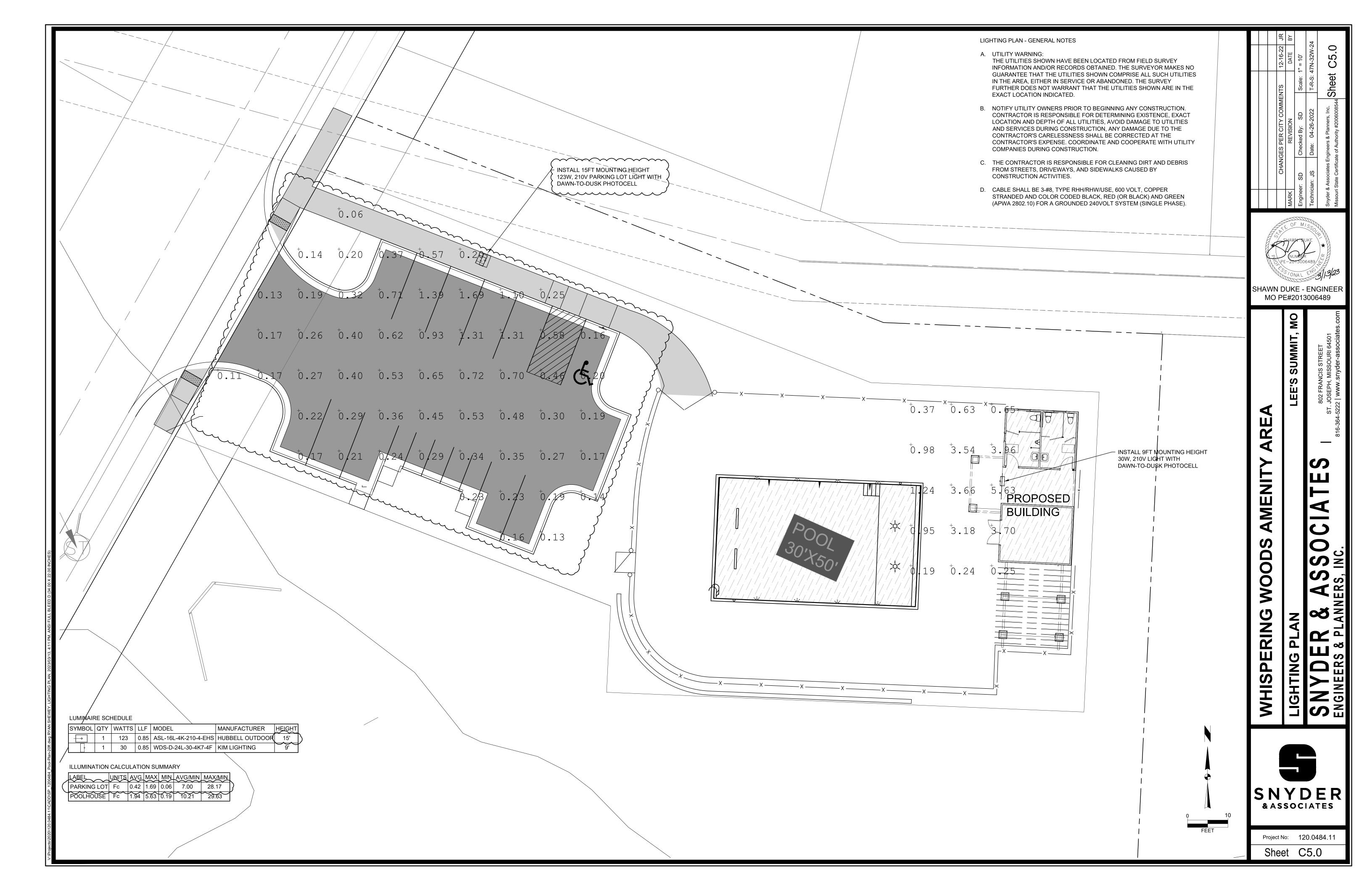


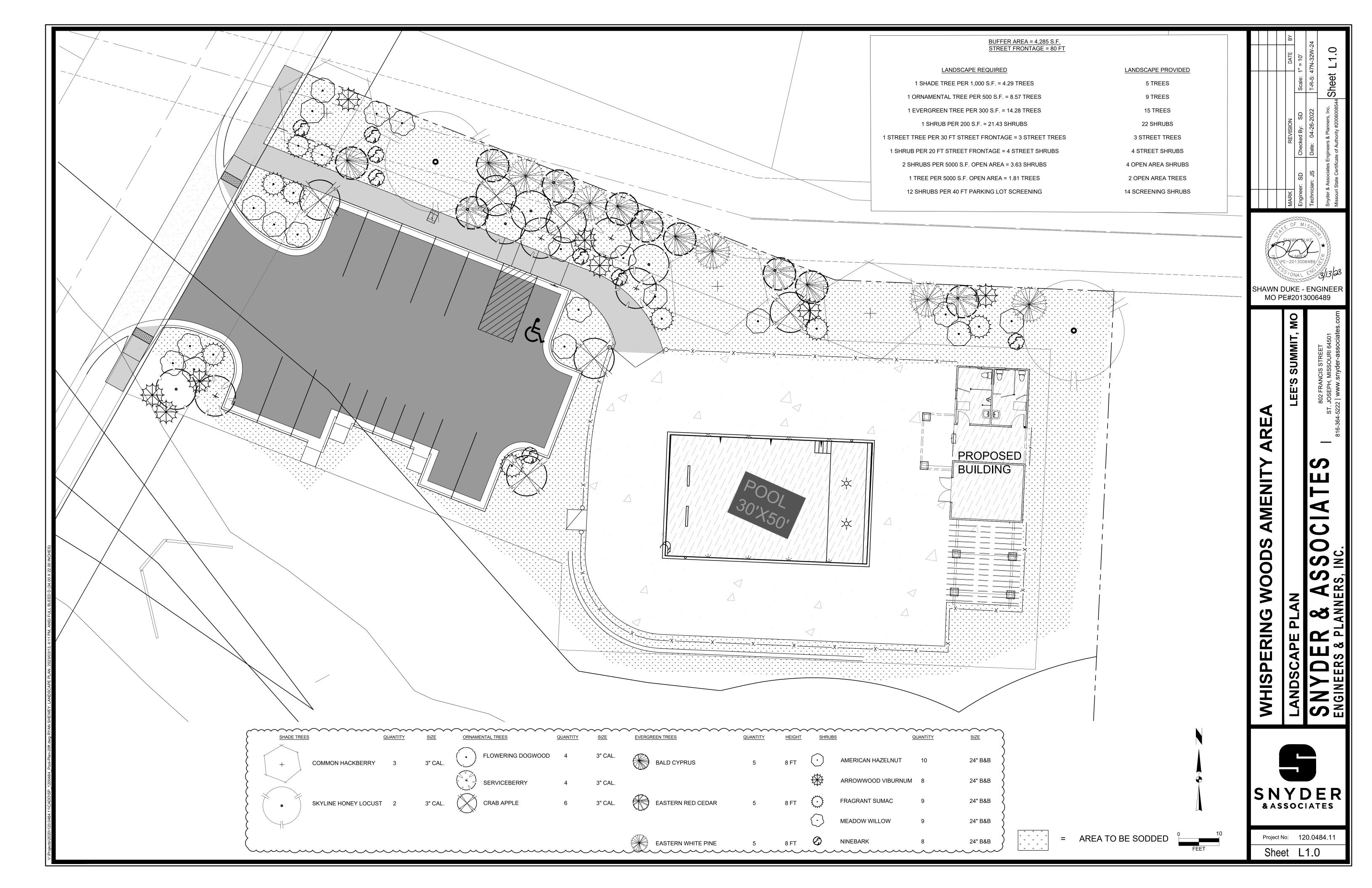


SHAWN DUKE - ENGINEER

MO PE#2013006489







STONE AND MASONRY VENEER SHALL BE INSTALLED IN ACCORDANCE WITH R703.7, TABLE 1703.4 AND FIGURE 1703.7. THESE VENEERS INSTALLED OVER A BACKING OF WOOD SHALL BE LIMITED TO THE FIRST STORY ABOVE-GRADE AND SHALL NOT EXCEED 5 INCHES IN THICKNESS. COMPLY WITH SECTION 7602.12 FOR WALL BRACING REQUIREMENTS FOR MASONRY VENEER FOR WOOD FRAMED

R703.6.2 SIDING TO BE PORTLAND CEMENT PLASTER APPLIED TO METAL LATH, THREE COATS - 1/8 INCH THICKNESS ON A VAPOR-PERMEABLE, WATER-RESISTANT BUILDING PAPER OVER SHEATHING AND FRAMING.

INSTALLATION OF EXTERIOR PLASTER SHALL BE IN COMPLIANCE WITH ASTM C 926 AND ASTM C 1063 AND THE PROVISIONS OF RT03.6.

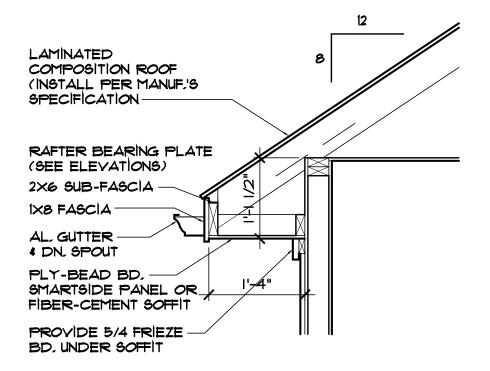
R703.6.1 LATH. ALL LATH AND LATH ATTACHMENTS SHALL BE OF CORROSION-RESISTANT MATERIALS. EXPANDED METAL OR WOVEN WIRE LATH SHALL BE ATTACHED WITH 7/8" 16 GA. STAPLES SPACED 6" APART.

R703.2 WEATHER-RESISTANT SHEATHING PAPER. ASPHALT SATURATED FELT FREE FROM HOLES AND BREAKS, WEIGHING NOT LESS THAN 14 POUNDS PER 100 SQUARE FEET AND COMPLYING WITH ASTM D 226 OR OTHER APPROVED WEATHER-RESISTANT MATERIAL SHALL BE APPLIED OVER STUDS OR SHEATHING OF ALL EXTERIOR WALLS AS REQUIRED BY TABLE R703.4. SUCH FELT OR MATERIAL SHALL BE APPLIED HORIZONTALLY, WITH THE UPPER LAYER LAPPED OVER THE LOWER LAYER NOT LESS THAN 2 INCHES. WHERE JOINTS OCCUR, FELT SHALL BE LAPPED NOT LESS THAN 6 INCHES.

R703.3.I WOOD SIDING. JOINTS IN WOOD, WOOD STRUCTURAL PANEL SIDING SHALL BE MADE AS FOLLOWS UNLESS OTHERWISE APPROVED. VERTICAL JOINTS IN PANEL SIDING SHALL OCCUR OVER FRAMING MEMBERS, UNLESS WOOD OR WOOD STRUCTURAL PANEL SHEATHING IS USED, AND SHALL BE SHIPLAPPED OR COVERED WITH A BATTEN, HORIZONTAL JOINTS IN PANEL SIDING SHALL BE LAPPED A MINIMUM OF I INCH OR SHALL BE SHIPLAPPED OR SHALL BE FLASHED WITH Z-FLASHING AND OCCUR OVER SOLID BLOCKING, WOOD OR WOOD STRUCTURAL PANEL SHEATHING.

FIBER-CEMENT PANELS SHALL COMPLY WITH THE REQUIREMENTS OF ASTM CIIB6, TYPE A, MINIMUM GRADE II. PANELS SHALL BE INSTALLED WITH THE LONG DIMENSION EITHER PARALLEL OR PERPENDICULAR TO FRAMING. VERTICAL AND HORIZONTAL JOINTS SHALL OCCUR OVER FRAMING MEMBERS AND SHALL BE SEALED WITH CAULKING, COVERED WITH BATTENS OR SHALL BE DESIGNED TO COMPLY WITH SECTION R703.1. PANEL SIDING SHALL BE INSTALLED WITH FASTENERS ACCORDING TO TABLE R703.4 OR APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS.

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



SOFFITS SHALL COMPLY W/ SECTION R703.3.1 OR MANUFACTURER'S INSTALLATION INSTRUCTIONS

A EAVE SECTION 8:12 PITCH SCALE: 3/4" = 1'-0"

	(ISPSC) TAB	LE 608,1 OCCUF	PANT LOAD		
ROOM	NET AREA	NET AREA AREA/OCCUPANT		OCCUPANCY	
EQUIPMENT/STORAGE	176 SQ. FT.	300 SQ.	FT. / PERSON	l	
POOL - WADING AREA	300 SQ. FT.	8 SQ. FT	. / PERSON	37	
POOL - DEEP AREA	1,200 SQ. FT.	10 SQ. F	T. / PERSON	120	
DECK AREA	4695 SQ. FT.	15 SQ. F1	T. / PERSON	3 3	
TOTAL OCCUPANCY				471	
MALE	·	·		_236	
FEMALE				_235	
609.2 N	umber of fixtures (	60921 WATER AF	REA LEGG THAN 7	500 SQ. FT.)	
OCCUPANT	FIXTURES		SECTION 60921	REQUIRED	PROVIDED
MALE	URINAL		1	I - REQUIRED	ı
MALE	WATER CLOSETS		1	I - REQUIRED	1
FEMALE	WATER CLOSETS		2	2 - REQUIRED	2
MALE	LAVATORIES		1	I - REQUIRED	1
FEMALE	LAVATORIES		1	I - REQUIRED	ı
MALE	DECK SHOWER		1	I - REQUIRED	
FEMALE	DECK SHOWER		1	I - REQUIRED	
(IPC)	TABLE 403.1 MINIMUM N	jumber of Req	uired Plumbing	FIXTURES	•
DRINKING FOUNTAIN			PER 1,000	I - REQUIRED	

REFERENCE: (IPC) TABLE 403.1 MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

(ISPSC) TABLE 608.1 OCCUPANT LOAD (ISPSC) SECTION 609.2.1

WHISPERING WOODS POOL 1901 SW RIVER RUN DR, LEES SUMMIT, MO 64082

LEGAL DESCRIPTION: TRACT C OF WHISPERING WOODS, IST PLAT

CODE REFERENCE: 2018 INTERNATIONAL BUILDING CODES

2017 NATIONAL ELECTRIC CODE NFPA 70

2018 INTERNATIONAL FIRE CODE 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL ENERGY CONSERVATION CODE

2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL FUEL GAS CODE

2018 INTERNATION SWIMMING POOL AND SPA CODE 2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES ICC/ANSI AIIIT.I

CONSTRUCTION TYPE:

V-B (PROPOSED POOL HOUSE) NON-SPRINKLERED, SINGLE-STORY BUILDING

OCCUPANCY TYPE: ASSEMBLY A-5 & S-I (PROPOSED POOL HOUSE); PARTICIPATION IN OUTDOOR ACTIVITIES

OCCUPANCY LOAD: (ISPSC) TABLE 608.1 OCCUPANT LOAD TOTAL: 470 USERS

EQUIPMENT/STORAGE - (I USER) 176 SQ. FT. / 300 PER USER POOL DECK - (313 USERS) 4,695 SQ. FT. / 15 S.F. PER USER POOL WADING AREA - (37 USERS) 300 SQ. FT. / 8 S.F. PER USER POOL DEEP AREA - (120 USERS) 1,200 SQ. FT. / 10 S.F. PER USER

ZONING: R-I SINGLE FAMILY RESIDENTIAL

Parking spaces:

TABLE 8-1 (UNIFIED DEVELOPMENT ORDINANCE OF THE CITY OF LEE'S SUMMIT, MISSOURI) I FOR EVERY 16 LOTS IN SUBDIVISION OR MINIMUM OF 6 PARKINGS TOTAL PROVIDED: II PARKINGS

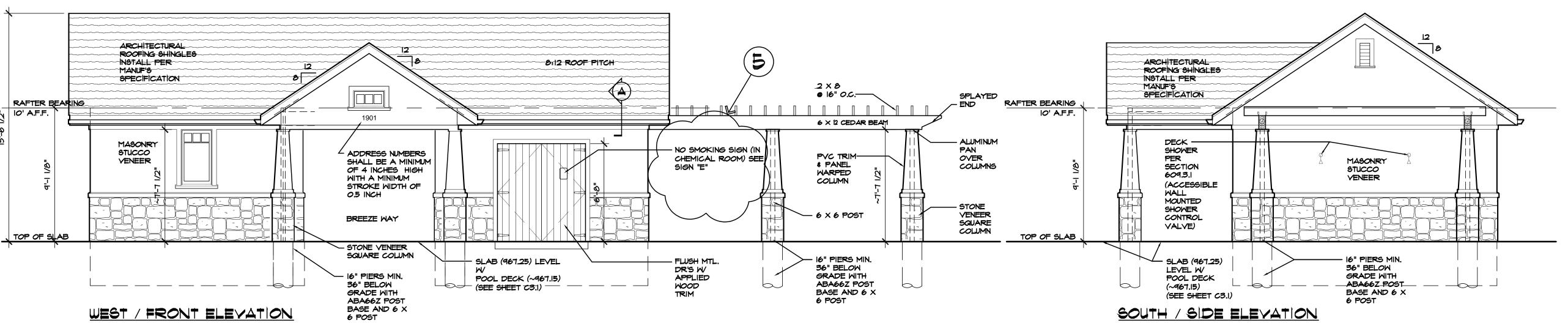
10 - STANDARD PARKING PROVIDED I - VAN ACCESSIBLE PARKING PROVIDED 5 - DESIGNATED GOLF CART PARKING

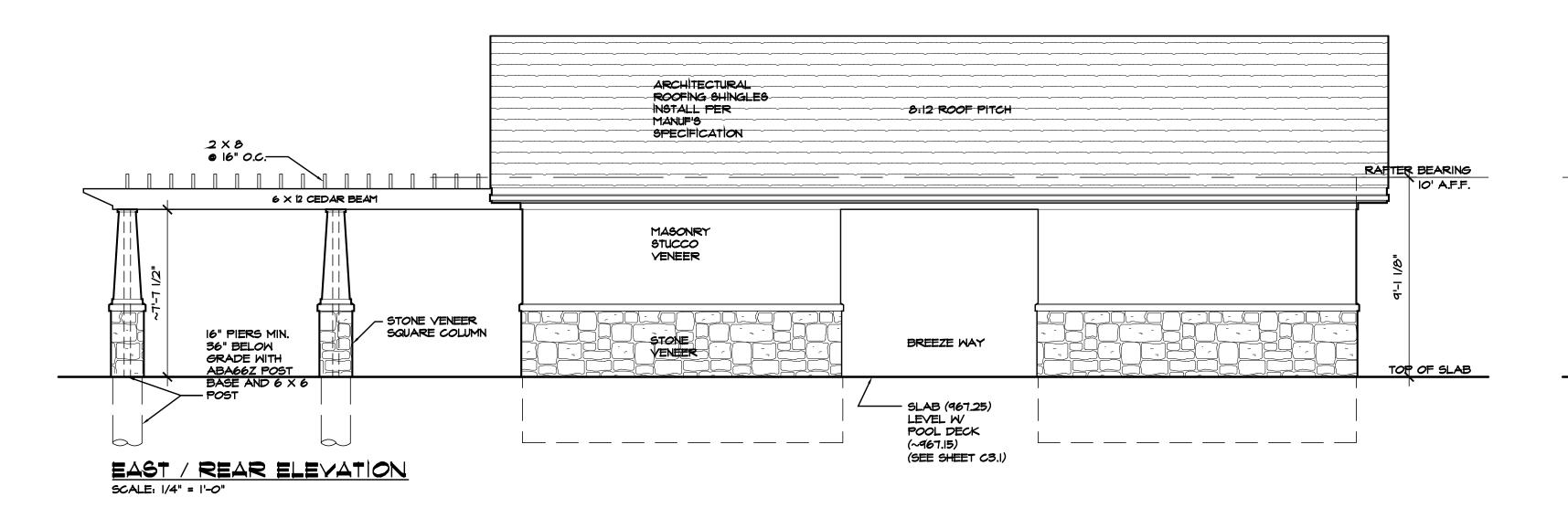
ROOF SNOW LOAD: 20 POUNDS PER SQUARE FOOT WIND SPEED: 115 MILES PER HOUR TOPOGRAPHIC EFFECTS: NO SEISMIC DESIGN CATEGORY: A WEATHERING: SEVERE

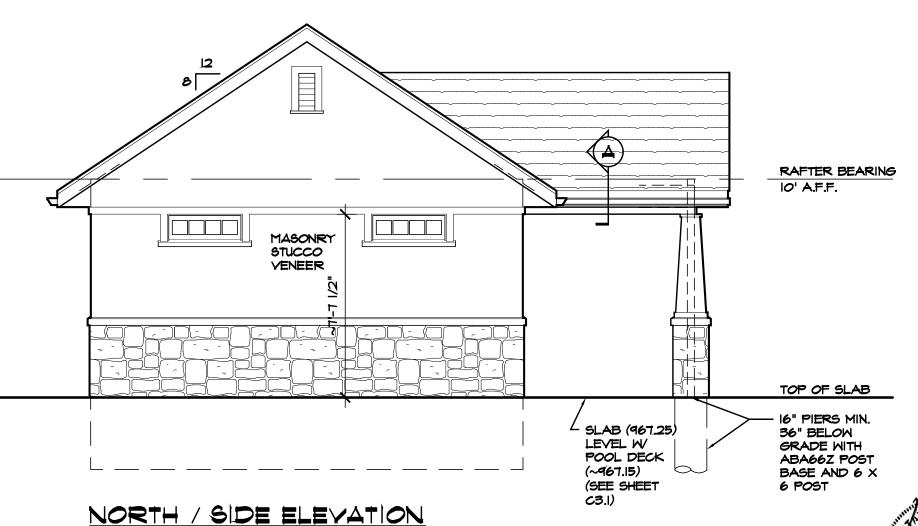
FROST LINE DEPTH: 36 INCHES TERMITE: MODERATE TO HEAVY DECAY: SLIGHT TO MODERATE

WINTER DESIGN TEMPERATURE: SIX DEGREES FAHRENHEIT ICE BARRIER UNDERLAYMENT REQUIRED: YES FLOOD HAZARDS: LATEST ADOPTED FIRM AND FBFM DOCUMENTS.

AIR FREEZING INDEX: 1000 MEAN ANNUAL TEMPERATURE: 54.7 DEGREES FAHRENHEIT







NORTH / SIDE ELEVATION SCALE: 1/4" = 1'-0"

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

SHEET NO. 1 OF 5

RUN L HOUSE I SW RIV SUMMIT POOL 1901 : LEE S

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SCALE 1/4"=1-0

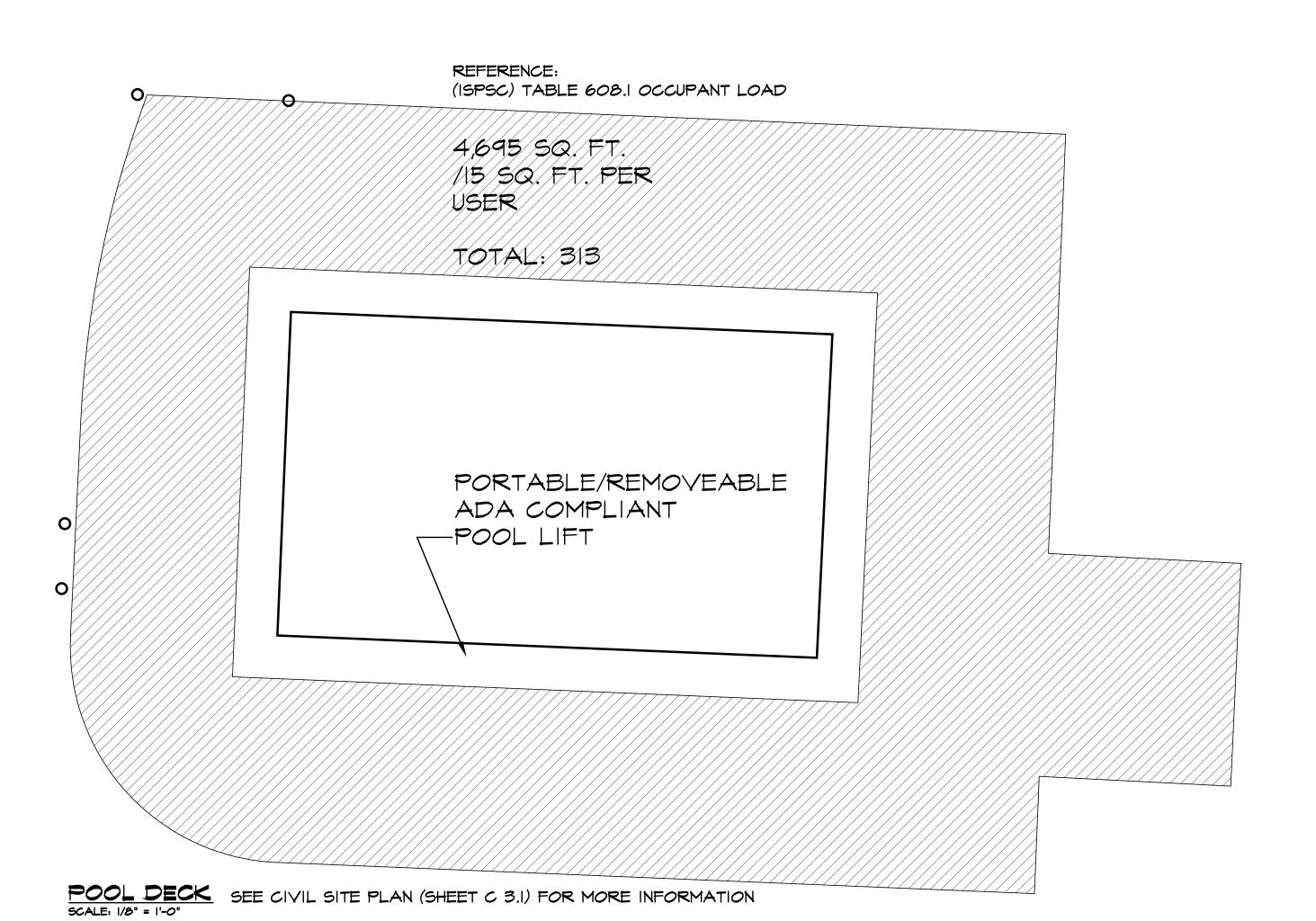
**DATE** 4-3-23 4-12-23

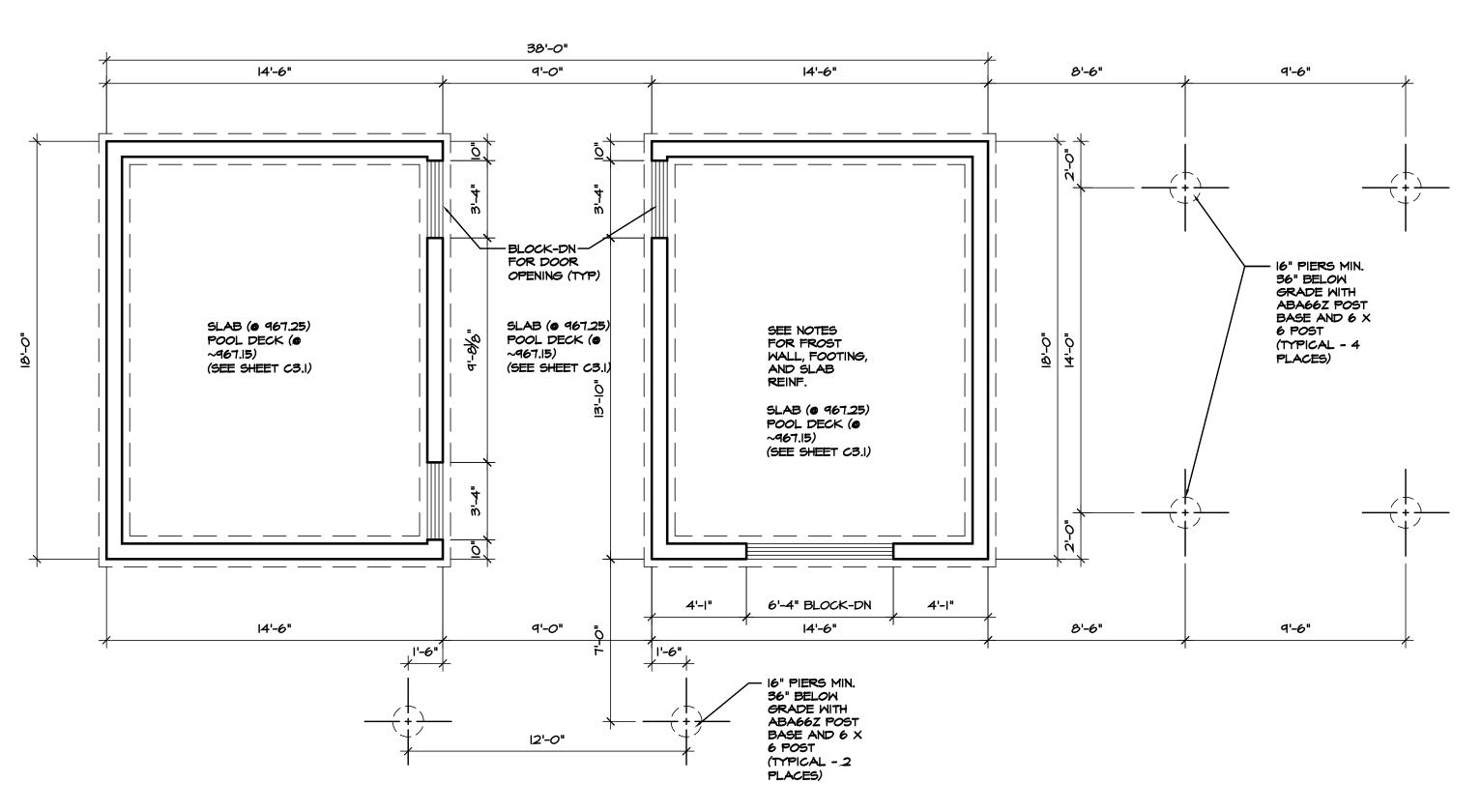
PERMIT NO. PRCOM20226005

DEEP AREA:
1,200 SQ. FT./
10 SQ. FT. PER
USER
TOTAL: 120

WADING AREA:
300 SQ. FT./
8 SQ. PER USER
TOTAL: 37.5

SWIMMING POOL SEE CIVIL SITE PLAN (SHEET C 3.1) FOR MORE INFORMATION SCALE: 1/8" = 1'-0"





POOL HOUSE FOUNDATION PLAN SCALE: 1/4" = 1'-0"

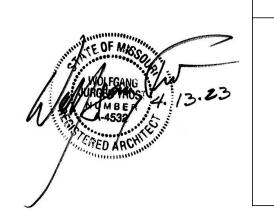
BUILD IN ACCORDANCE WITH 2018 INTERNATIONAL BUILDING CODE AND LOCAL CODES

> POOL HOUSE 1901 SW RIVER RUN DR LEE SUMMIT MO

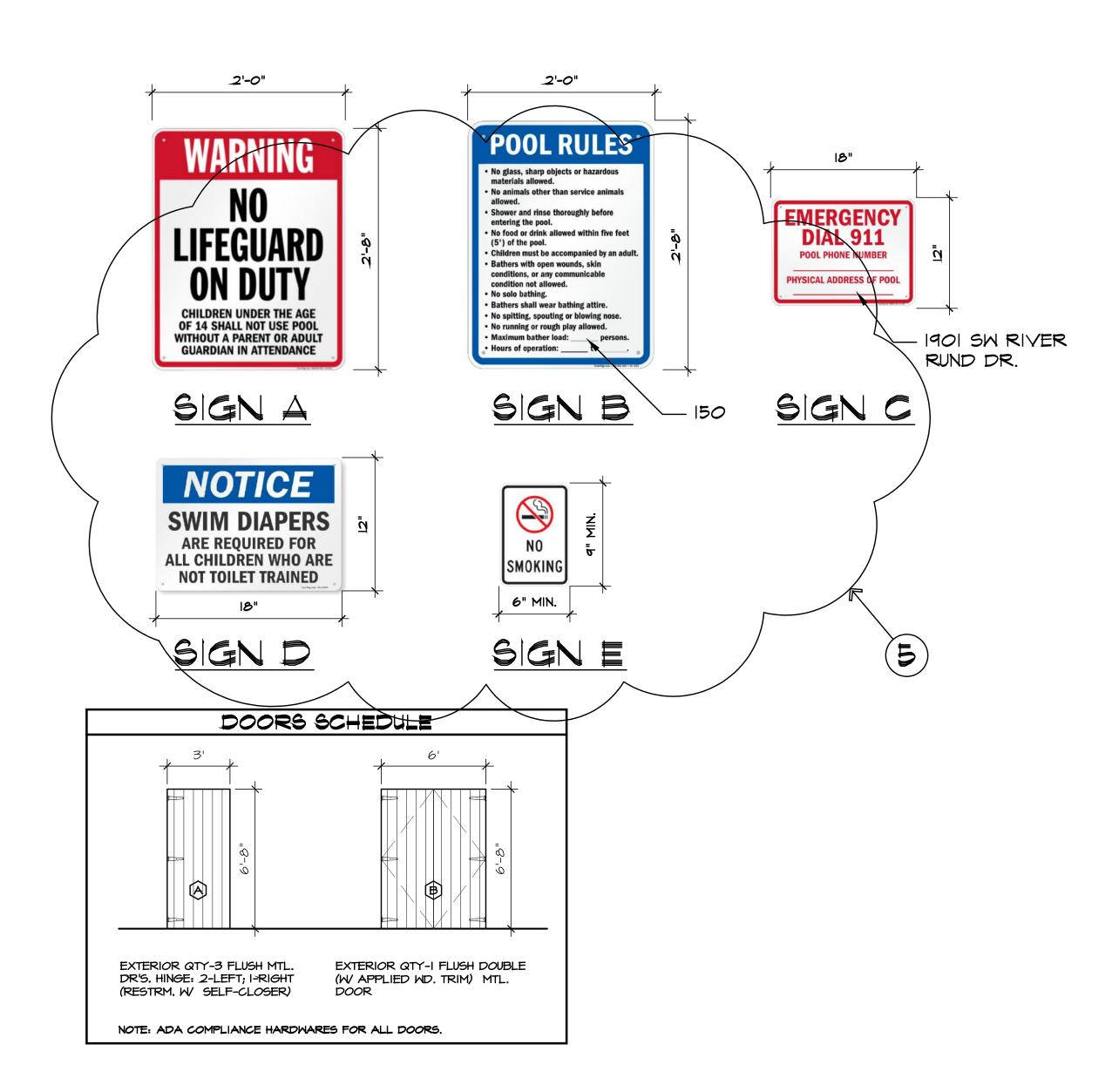
SCALE 1/4"=1-0

DATE 4-3-23 4-12-23

PERMIT NO. PRCOM20226005

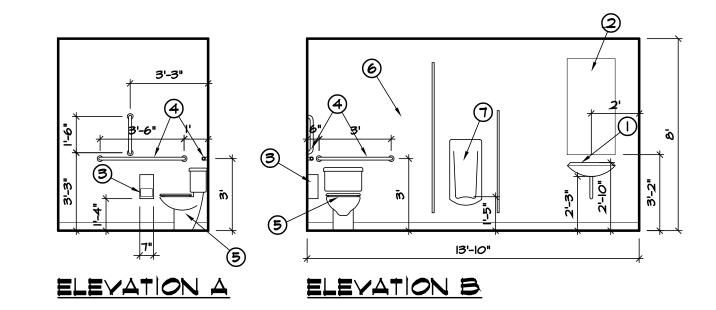


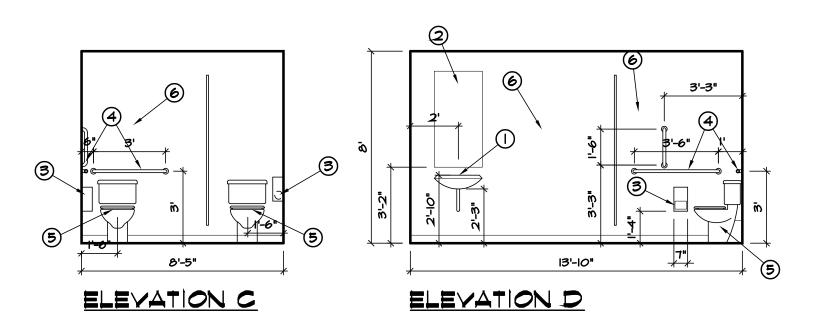
SHEET NO. 2 OF 5



# RESTROOM FIXTURE LEGEND

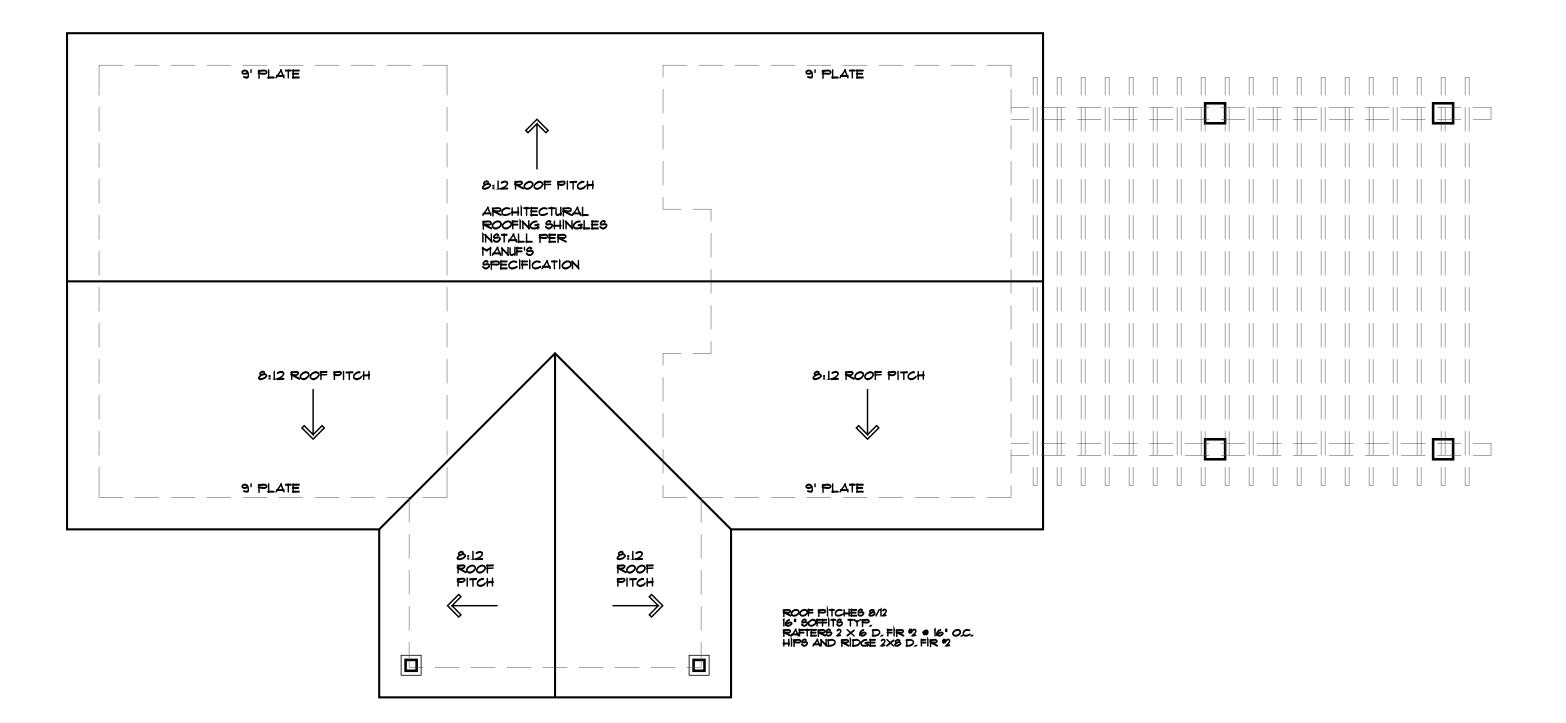
- WALL MOUNTED LAVATORY W/ INSULATED PIPING BELOW
   MIRROR
- 3 DUAL ROLL TOILET PAPER DISPENSER.
- (4) STAINLESS STEEL GRAB BAR per ANSI SPEC'S.
- 5 FLOOR MOUNTED ACCESSIBLE WATER CLOSET
- 6 EPOXY PAINT AS REQ.
- 7 WALL MOUNTED URINAL
- TOILET (ADA COMPLIANCE UNIT)
- WALL MOUNTED LAVATORY (ADA COMPLIANCE UNIT)
  WALL MOUNTED URINAL (ADA COMPLIANCE UNIT)



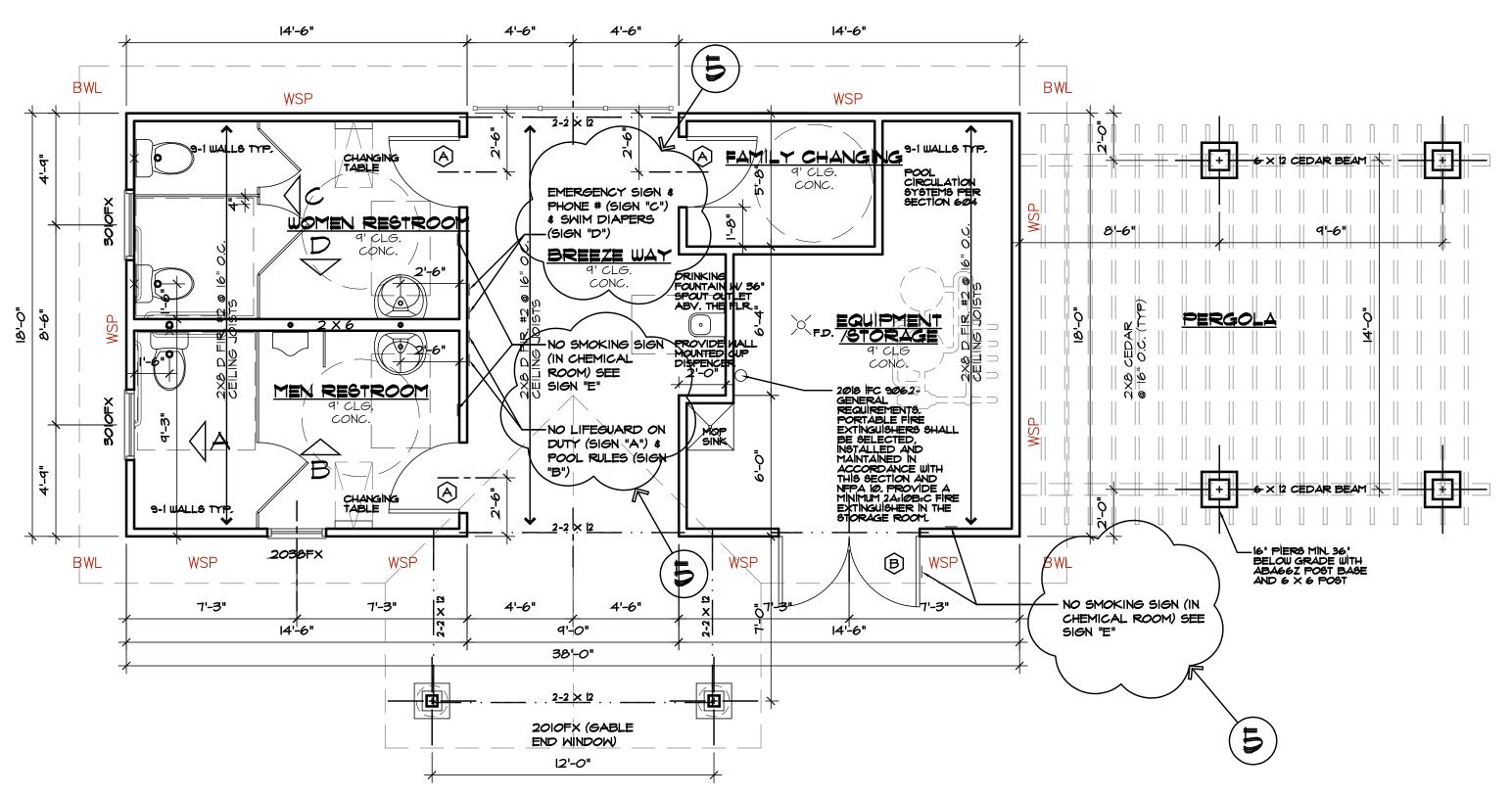


WOMEN RESTROOM ELEVATIONS
SCALE: 1/4" = 1'-0"

MEN RESTROOM ELEVATIONS
SCALE: 1/4" = 1'-0"



# POOL HOUSE ROOF PLAN SCALE: 1/4" = 1'-0"



POOL HOUSE FLOOR PLAN SEE CIVIL SITE PLAN (SHEET C 3.1) FOR MORE INFORMATION SCALE: 1/4" = 1'-0"

BUILD IN ACCORDANCE WITH 2018 INTERNATIONAL BUILDING CODE AND LOCAL CODES

> POOL HOUSE 1901 SW RIVER RUN DR LEE SUMMIT MO

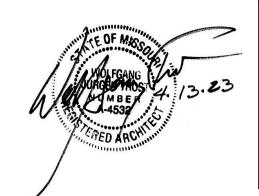
SCALE 1/4"=1-0

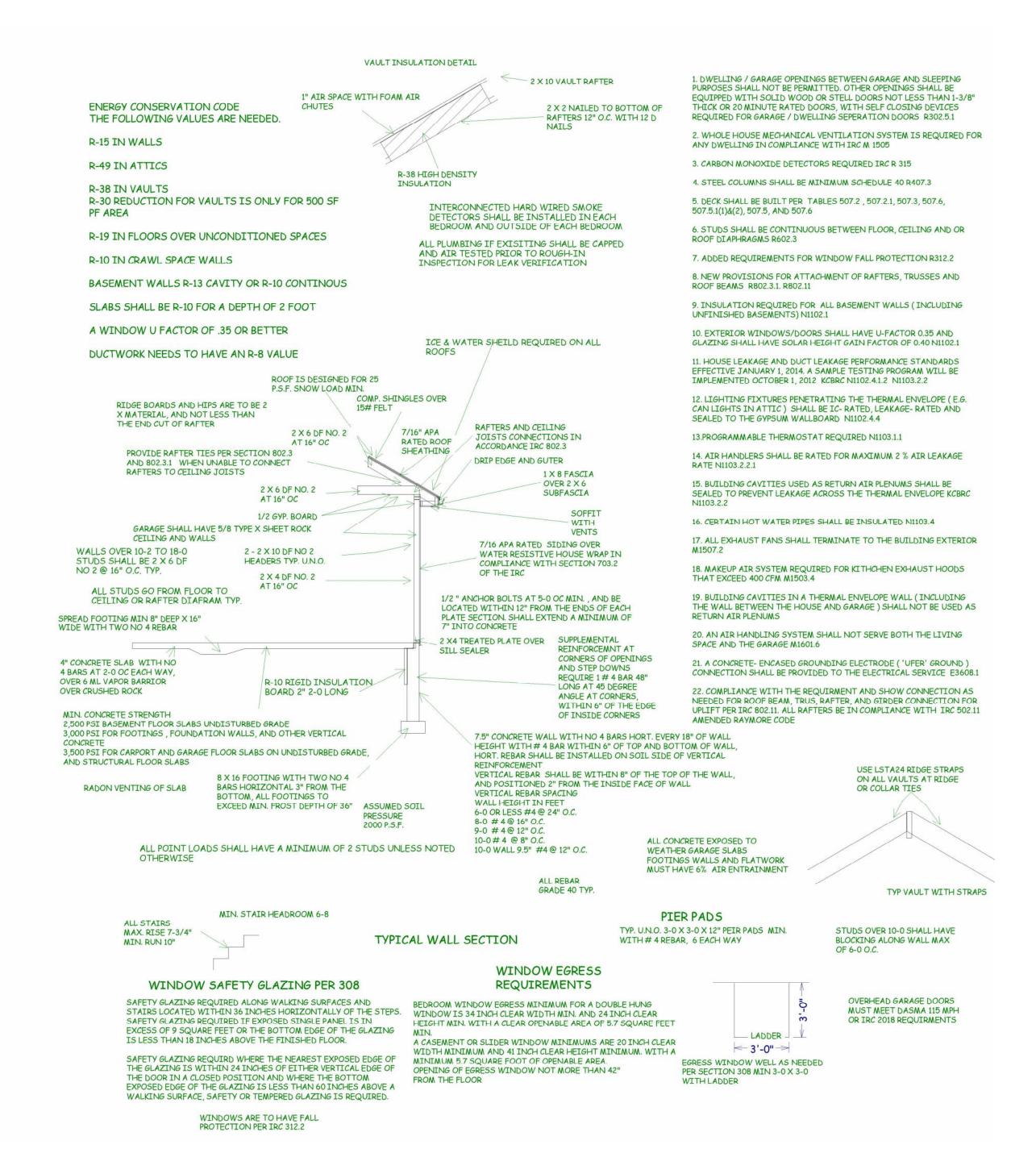
DATE 4-3-23 4-12-23

PERMIT NO. PRCOM20226005

SHEET NO.

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RACING	TABLE R602.10.3(1) REQUIREMENTS BASED ON WIND SPEED	
INGIII	HEADINEHILD SWOED ON MIND SPEED	

,			SHACING HEQUI	HEMEN (2 BASED	ON WIND SPEED					
	30-FOOT MEA	N ROOF HEIGHT L HEIGHT		MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE						
	Ultimate Design Wind Speed (mph)	Story Location	Braced Wall Line Spacing* (feet)	Method LIB <sup>b</sup>	Method GB	Methods DWB, W8P, 8FB, PBS, PCP, HPS, BV-W8P, ABW, PFH, PFC, CS-SFB	Methods CS-WSP, CS-G, CS-PF			
ſ			10	3,5	3.5	2.0	2.0			
1		$\wedge$	20	6.5	6,5	3.5	3.5			
1				9.5	9.5	5.5	4.5			
			40	12,5	12.5	7.0	6.0			
1			50	15.0	15.0	9.0	7.5			
١			60	18.0	18.0	10,5	9.0			
			10	7.0	7.0	4.0	3.5			
1	. •	$\wedge$	20	12.5	12.5	7.5	6.5			
	≤ 115	$\wedge$ $\Pi$	30	18.0	18.0	10.5	9.0			
Ì	2112	fi m	40	23.5	23.5	13.5	11.5			
1			50	29.0	29.0	16.5	14.0			
1	,		60	34,5	34.5	20.0	17.0			
1			10	NP	10.0	6.0	5.0			
		$\triangle$	20	NP	18.5	11.0	9.0			
			30	NP	27.0	15.5	13.0			
			40	NP	35.0	20.0	17.0			
			50	NP	43.0	24.5	21.0			
1							1			

60 NP 51.0 29.0 25.0

# TABLE R602.10.4—continued BRACING METHODS

METHODS, MATERIAL		MINIMUM THICKNESS FIGURE		CONNECTION CRITERIA*			
	iemods, majerial	mitimosi Tricritess	FIGURE	Fasteners	Specing		
g Methods	PFH Portal frame with hold-downs	³/s"		See Section R602.10.6.2	See Section R602.10.6.2		
Intermittent Bracing Methods	PPG Portal frame at garage	<sup>7</sup> / <sub>16</sub> "		See Section R602.10.6.3	See Section R602.10.6.3		
	CS-WSP Continuously sheathed	3/8"		Exterior sheathing per Table R602.3(3)	6" edges 12" field		
St)	wood structural panel	<b>'8</b>		Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener		
Continuous Sheathing Methods	CS-G <sup>b,c</sup> Continuously sheathed wood structural panel adjacent to garage openings	³/ <sub>8</sub> "		See Method CS-WSP	See Method CS-WSP		
invous St	CS-PF Continuously sheathed portal frame	<sup>7</sup> / <sub>16</sub> "		See Section R602.10.6.4	See Section R602.10.6.4		
Cont	CS-SFB <sup>d</sup> Continuously sheathed structural fiberboard	<sup>1</sup> / <sub>2</sub> " or <sup>25</sup> / <sub>32</sub> " for maximum 16" stud spacing		$1^{1}/_{2}$ " long × 0.12" dia. (for ${}^{1}/_{2}$ " thick sheathing) $1^{3}/_{4}$ " long × 0.12" dia. (for ${}^{25}/_{32}$ " thick sheathing) galvanized roofing nails	3" edges 6" field		

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 degree = 0.0175 rad, 1 pound per square foot = 47.8 N/m<sup>2</sup>, 1 mile per hour = 0.447 m/s. a. Adhesive attachment of wall sheathing, including Method GB, shall not be permitted in Seismic Design Categories C,  $D_0$ ,  $D_1$  and  $D_2$ . Applies to panels next to garage door opening where supporting gable end wall or roof load only. Shall only be used on one wall of the garage. In Seismic Design Categories D<sub>0</sub>, D<sub>1</sub> and D<sub>2</sub> roof covering dead load shall not exceed 3 psf.
 Garage openings adjacent to a Method CS-G panel shall be provided with a header in accordance with Table R602.7(1). A full-height clear opening shall not be permitted adjacent to a Method CS-G panel.

d. Method CS-SFB does not apply in Seismic Design Categories D<sub>0</sub>, D<sub>1</sub> and D<sub>2</sub>.
 e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D<sub>0</sub> through D<sub>2</sub> only.

MIN. 3/8" WOOD STRUCTURAL PANEL —— SHEATHING ON ONE FACE FOR PANEL SPLICE (IF NEEDED) ADJOINING PANEL EDGES SHALL MEET OVER AND BE FASTENED TO COMMON 8D COMMON OR GALV. BOX NAILS @ 6-O.C. AT PANEL EDGES, FOR SINGLE STORY AND @ 4- O.C. PANEL EDGES FOR THE FIRST OF 2 STORIES STUDS UNDER HEADER AS REQUIRED 8D COMMON OR GALV. BOX NAILS @ 12" PANEL MUST BE ATTACHED TO CONCRETE FOOTING OR CONCRETE FOUNDATION WALL CONTINUOUS OVER BRACED WALL LINE IIN. REINFORCING OF FOUNDATION ONE #4 BAR TOP AND BOTTOM, LAP BARS 15" MINIMUM. (2) 1/2" DIAMETER ANCHOR BOLTS LOCATED BETWEEN MINIMUM FOOTING SIZE UNDER

### FIGURE R602.10.6.1 METHOD ABW---ALTERNATE BRACED WALL PANEL

6" AND 12" OF EACH END OF

OPENING IS 12" X 12". A TURNED DOWN SLAB SHALL BE PERMITTED AT DOOR

BRACING ME I HOUS										
				CONNECTION CRITERIA*						
METHODS, MATERIAL		MINIMUM THICKNESS	FIGURE	Fasteners	Spacing					
	LIB Let-in-bracing	1 × 4 wood or approved metal straps at 45° to 60° angles for		Wood: 2-8d common nails or 3-8d (2 <sup>1</sup> / <sub>2</sub> " long x 0.113" dia.) nails	Wood: per stud and top and bottom plates					
	Dot in ordering	maximum 16" stud spacing	<u> </u>	Metal strap: per manufacturer	Metal: per manufacturer					
	DWB Diagonal wood boards	3/4" (1" nominal) for maximum 24" stud spacing		2-8d $(2^{1}/_{2}" \text{ long} \times 0.113" \text{ dia.})$ nails or $2 - 1^{3}/_{4}" \text{ long staples}$	Per stud					
	WSP Wood	³/ <sub>8</sub> "		Exterior sheathing per Table R602.3(3)	6" edges 12" field					
	structural panel (See Section R604)	<b>'8</b>		Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener					
ethods	BV-WSP Wood structural panels with stone or masonry veneer (See Section R602.10.6.5)	7/ <sub>16</sub> "	See Figure R602.10.6.5	8d common (2 <sup>1</sup> / <sub>2</sub> " × 0.131) nails	4" at panel edges 12" at intermediate supports 4" at braced wall panel end posts					
Intermittent Bracing Methods	SFB Structural fiberboard sheathing	1/2" or 25/32" for maximum 16" stud spacing		1 <sup>1</sup> / <sub>2</sub> " long × 0.12" dia. (for <sup>1</sup> / <sub>2</sub> " thick sheathing) 1 <sup>3</sup> / <sub>4</sub> " long × 0.12" dia. (for <sup>25</sup> / <sub>32</sub> " thick sheathing) galvanized roofing nails	3" edges 6" field					
Intermitte	GB Gypsum board	1/2"		Nails or screws per Table R602.3(1) for exterior locations  Nails or screws per Table R702.3.5 for	For all braced wall panel locations: 7" edges (including top and bottom plates) 7"					
	PBS Particleboard sheathing (See Section R605)	<sup>3</sup> / <sub>8</sub> " or <sup>1</sup> / <sub>2</sub> " for maximum 16" stud spacing		interior locations  For <sup>3</sup> / <sub>8</sub> ", 6d common (2" long × 0.113" dia.) nails For <sup>1</sup> / <sub>2</sub> ", 8d common (2 <sup>1</sup> / <sub>2</sub> " long × 0.131" dia.) nails	field 3" edges 6" field					
	PCP Portland cement plaster	See Section R703.7 for maximum 16" stud spacing		1 <sup>1</sup> / <sub>2</sub> " long, 11 gage, <sup>7</sup> / <sub>16</sub> " dia. head nails or <sup>7</sup> / <sub>8</sub> " long, 16 gage staples	6" o.c. on all framing members					
	HPS Hardboard panel siding	7/ <sub>16</sub> " for maximum 16" stud spacing		0.092" dia., 0.225" dia. head nails with length to accommodate 11/2" penetration into studs	4" edges 8" field					
	ABW Alternate braced wall	3/8"		See Section R602.10.6.1	See Section R602.10.6.1					

# **TABLE R602,10.5**

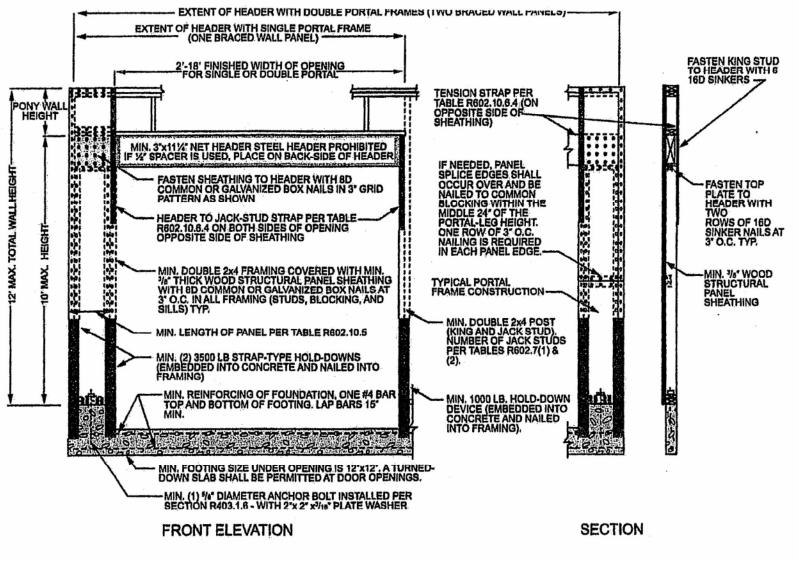
,			MI	NIMUM LEN (Inches)	GTH*		
METHOD (See Table R602.10.4)				CONTRIBUTING LENGT			
		8 feet	9 feet	10 feet	11 feet	12 feet	1 .
DWB, WSP, SFB, I	48	48	48	53	58	Actual <sup>b</sup>	
	GB	48	48	48	53	58	Double sided = Act Single sided = 0.5 × A
.,	LIB	55	62	69	NP	NP	Actual <sup>6</sup>
ABW	SDC A, B and C, ultimate design wind speed < 140 mph	28	32	34	38	42	48
ABW	SDC D <sub>0</sub> , D <sub>1</sub> and D <sub>2</sub> , ultimate design wind speed < 140 mph	32	32	34	NP	NP	
	CS-G	24	27	30	33	36	Actual <sup>b</sup>
	Adjacent clear opening height (inches)						
	≤ 64	24	27	30	33	36	
	68	26	27	30	33	36	1
	72	27	27	30	33	36	1
	76	30	29	30	33	36	1
	80	32	30	30	33	36	1
	84	35	32	32	33	36	1
	88	38	35	33	33	36	1
	92	43	37	35	35	36	1
	96	48	41	38	36	36	1
CS-WSP, CS-SFB	100		44	40	- 38	38	1
	104		49	43	40	39	Actual <sup>b</sup>
	108		54	46	43	41	1
	112			50	45	43	1
	116			55	48	45	1.
	120			60	52	48	1
	124		_		56	51	1
	128	_			61	54	†
	132	~	_	-	66	58	1
	136					62	1
	140	<del></del>				66	1
	144					72	1
M	ETHOD		Po	rtal header l	nelght	1	
(See Table R602,10.4)		8 feet	9 feet	10 feet	11 feet	12 feet	
PFH	Supporting roof only	16	16	16	Note c	Note c	48
FFN	Supporting one story and roof	24	24	24	Note c	Note c	7 40
	PFG	24	27	30	Note d	Note d	1.5 × Actual <sup>h</sup>
CE PE	SDC A, B and C	16	18	20	Note e	Note e	1.5 × Actual <sup>b</sup>
CS-PF	SDC D <sub>0</sub> , D <sub>1</sub> and D <sub>2</sub>	16	18	20	Note e	Note e	Actual <sup>b</sup>

NP = Not Permitted. a. Linear interpolation shall be permitted. b. Use the actual length where it is greater than or equal to the minimum length. c. Maximum header height for PFH is 10 feet in accordance with Figure R602.10.6.2, but wall height shall be permitted to be increased to 12 feet with pony wall.

d. Maximum header height for PFG is 10 feet in accordance with Figure R602,10.6.3, but wall height shall be permitted to be increased to 12 feet with pony wall.

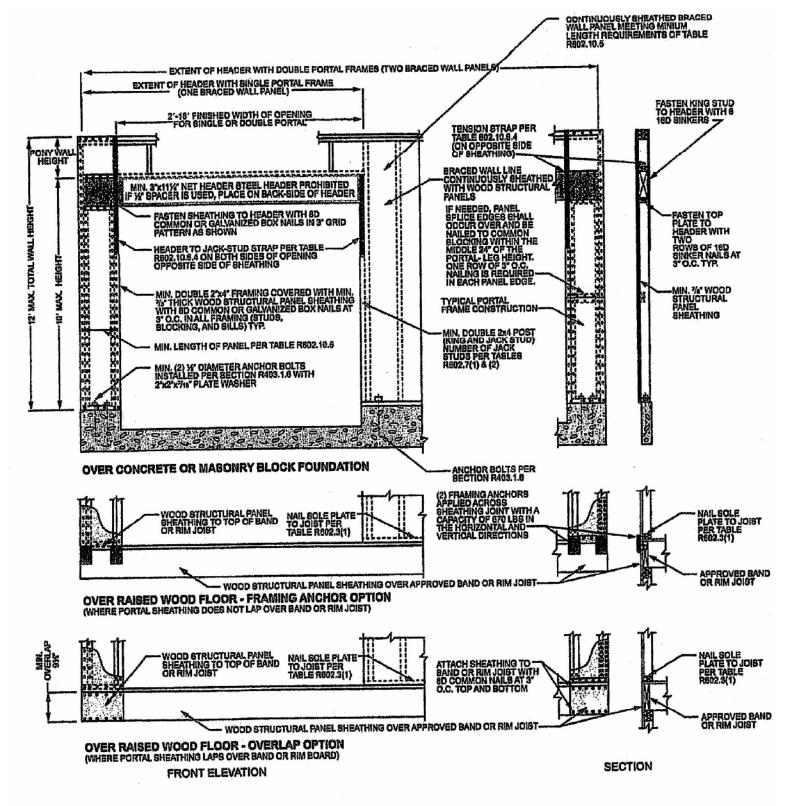
e. Maximum header height for CS-PF is 10 feet in accordance with Figure R602.10.6.4, but wall height shall be permitted to be increased to 12 feet with pony wall.

BRACE WALL DETAILS WIND SPEED 115 MPH WIND EXPOSURE A SEISMIC DESIGN CAEGORY A



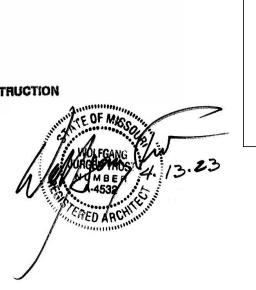
4 mm, 1 foot = 304.8 mm.

# FIGURE R602.10.6.2 METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.4 METHOD CS-PF-CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION



ONA \_ NA OD NG \_ \_ \_  $O \subset O$ C B 2 B

RUN NMM POOL 1901 LEE S S

SCALE 1/4"=1-0

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4051. <u>AQUATÌC VENUE REGULATIONS.</u>

AQUATIC VENUES SHALL BE LICENSED AND INSPECTED PURSUANT TO THIS SECTION. (ORD. 5008, EFF. 09/05/2017) 40511 <u>operating permit.</u>

A. NO PERSON SHALL OPERATE ANY AQUATIC VENUE UNLESS THE FACILITY HOLDS A VALID OPERATING PERMIT FROM THE HEALTH OFFICER FOR EACH AQUATIC VENUE BEING OPERATED.

B. ALL APPLICANTS FOR AN OPERATING PERMIT OF AN AQUATIC VENUE SHALL PROVIDE PROOF OF THE LICENSED AQUATIC VENUE OPERATOR WHO WILL SUPERVISE THAT EACH OPERATING PERMIT SHALL BE ISSUED FOR ONE YEAR FROM THE DATE OF SOUANCE.

D. NO OPERATING PERMIT SHALL BE TRANSFERABLE.

E. EACH OPERATING PERMIT SHALL BE CONSPICUOUSLY POSTED AT THE PERMITTED FACILITY.

40512 PLANS AND SPECIFICATIONS.

A NO PERSON SHALL BEGIN CONSTRUCTION, INSTALLATION OR STRUCTURAL RENOVATION OF ANY AQUATIC VENUE WITHOUT FIRST HAVING SUBMITTED PLANS TO THE HEALTH OFFICER FOR REVIEW, B. PLANS SHALL INCLUDE THE FOLLOWING.
L. ILLUSTRATIONS SHOWING THE AQUATIC VENUE, BATHHOUSE, AND EQUIPMENT

ROOM!

| SPECIFICATIONS AND LAYOUT OF ALL TREATMENT EQUIPMENT!
| PIPING SCHEMATIC!
| LAYOUT OF CHEMICAL STORAGE ROOM!

V. SPECIFICATIONS FOR THE WATER SUPPLY AND WASTEWATER DISPOSAL

SYSTEMS: AND VI. CERTIFICATION BY A PROFESSIONAL ENGINEER, ARCHITECT, OR OTHER PROFESSIONAL.

C. NO PERMIT FOR OPERATION OF AN AQUATIC VENUE SHALL BE 199UED UNTIL AN INSPECTION OF THE COMPLETED AQUATIC VENUE IS MADE BY THE HEALTH OFFICER AND COMPLIANCE WITH THE REQUIREMENTS OF THIS COMPLETED IS SATISFIED.

D. EXISTING AQUATIC VENUES CONSTRUCTED PRIOR TO THE EFFECTIVE DATE OF THIS SECTION MAY CONTINUE IN USE SO LONG AS EQUIPMENT, WATER QUALITY, SAFETY, SUPERVISION, OPERATION, AND MAINTENANCE CAN COMPLY WITH THIS CHAPTER. 40513 <u>VARIANCES</u>

A. A VARIANCE FROM A REQUIREMENT OF THIS CHAPTER MAY BE CONSIDERED AND GRANTED BY THE HEALTH OFFICER IF THE VARIANCE DOES NOT JEOPARDIZE PUBLIC HEALTH OR SAFETY. B, ANY REQUEST FOR VARIANCE MUST BE SUBMITTED IN WRITING TO THE HEALTH

4051A SHOWER ROOMS, SHOWERS, TOILETS, AND LAVATORIES A. SHOWER FACILITIES ARE REQUIRED FOR ALL CATEGORY I AQUATIC VENUES. SHOWERS SHALL BE SUPPLIED WITH HOT AND COLD RUNNING WATER FROM AN APPROVED SHOWERS SHALL DE SUFFLIED WITH TO AND SOLD MAINS, AND LAVATORIES SHALL SOURCE.

B. THE NUMBER OF SHOWERS, TOILETS, DRINKING FOUNTAINS, AND LAVATORIES SHALL COMPLY WITH APPLICABLE BUILDING PERMIT REQUIREMENTS.

C. AT ALL AQUATIC VENUES, IF SHOWER ROOMS ARE PROVIDED, THEY SHALL BE MAINTAINED IN GOOD REPAIR, IN A CLEAN CONDITION AT ALL TIMES, WITH SANITARY SUPPLIES PROVIDED, AND FREE FROM DIRT, STANDING WATER, MOLD, AND/OR ALGAE. D. IF TOWELS ARE FURNISHED, THEY SHALL BE THOROUGHLY WASHED WITH DETERGENT AND WATER, RINSED, DRIED, AND STORED IN A CLEAN PLACE. 40515 <u>LICENSED AQUATIC VENUE OPERATORS</u>

A. LICENSING SHALL BE ACHIEVED BY SUCCESSFULLY COMPLETING A HEALTH OFFICER APPROVED COURSE, EXAMINATION, AND PAYMENT OF ANY APPLICABLE FEES, ANY LICENSE SHALL BE VALID FOR NOT MORE THAN FIVE (5) YEARS FROM THE DATE OF ISSUANCE. ISSUANCE.
B. ANY LICENSE MAY BE SUSPENDED OR REVOKED BY THE HEALTH OFFICER IF;
I. THE AQUATIC VENUE THAT THE LICENSED AQUATIC VENUE OPERATOR
IS SUPERVISING IS CLOSED BY THE HEALTH OFFICER TWO OR MORE TIMES WITHIN
A 365-DAY FERIOD! OR
II. THE LICENSED AQUATIC VENUE OPERATOR IS NOT READILY AVAILABLE,
REACHABLE BY PHONE GENERALLY WITHIN 30 MINUTES, AT THE TIME OF HEALTH
OFFICER'S INSPECTION.

A. EACH AQUATIC VENUE SHALL BE UNDER THE SUPERVISION OF A LICENSED AQUATIC VENUE OPERATOR WHO SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THIS CHAPTER. THE LICENSED AQUATIC VENUE OPERATOR IS NOT REQUIRED TO BE PRESENT ON SITE AT ALL TIMES, BUT SHALL BE READILY AVAILABLE DURING ALL TIMES THE FACILITY IS OPEN. THE LICENSED AQUATIC VENUE OPERATOR'S CONTACT INFORMATION MUST BE POSTED IN A CONSPICUOUS PLACE AT THE PERMITTED FACILITY. THE LICENSED AQUATIC VENUE OPERATOR SHALL HAVE HIS/HER LICENSE READILY ACCESSIBLE AT THE TIME OF INSPECTION. IF AN AQUATIC VENUE HAS A HISTORY OF VIOLATIONS, THE HEALTH OFFICER MAY REQUIRE THE LICENSED AQUATIC VENUE OPERATOR BE PRESENT ON SITE DURING ALL TIMES THE AQUATIC VENUE IS OPEN. MAY REQUIRE THE LICENSED AQUATIC VENUE OPERATOR BE PRESENT ON SITE DUI ALL TIMES THE AQUATIC VENUE IS OPEN.
B. EACH CATEGORY I AQUATIC VENUE MUST PROVIDE QUALIFIED LIFEGUARDS.
WHEN QUALIFIED LIFEGUARDS ARE USED THE STAFFING PLAN SHALL INCLUDE DIAGRAMMED ZONES OF PATRON SURVEILLANCE FOR EACH AQUATIC VENUE SUCH THAT.

DIAGRAPMED ZONES OF PATRON SURVEILLANCE FOR EACH AQUATIC VENUE SUCH THAT:

L.A. QUALIFIED LIFEGUARD IS CAPABLE OF VIEWING THE ENTIRE AREA OF THE ASSIGNED ZONE OF PATRON SURVEILLANCE:

II.A. QUALIFIED LIFEGUARD IS ABLE TO REACH THE FURTHEST EXTENT OF THE ASSIGNED ZONE OF PATRON SURVEILLANCE WITHIN 20 SECONDS:

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III. THE DIAGRAM SHALL IDENTIFY WHETHER EACH QUALIFIED LIFEGUARD IS IN AN ELEVATED STAND, WALKING, IN-WATER, AND/OR OTHER APPROVED POSITION:

IV. THE DIAGRAM SHALL IDENTIFYING ANY ADDITIONAL RESPONSIBILITIES FOR EACH ZONE: AND

V. ALL AREAS OF EACH AQUATIC VENUE ARE ASSIGNED A ZONE OF PATRON

SURVEILLANCE.

C. EACH CATEGORY II AQUATIC VENUES IS RECOMMENDED TO HAVE LIFEGUARD

SERVICES BUT IT IS NOT REQUIRED. IF NO LIFEGUARD IS PRESENT, A PROPER WARNING

-NO LIFEGUARD ON DUTY" SIGNAGE SHALL BE PLACED THROUGHOUT THE POOL.

D. THE MINIMUM QUALIFICATIONS FOR A LIFEGUARD SHALL BE SATISFACTORY

COMPLETION AND CURRENT CERTIFICATION FROM A NATIONALLY RECOGNIZED LIFEGUARD

TRAINING PROGRAM, EACH LIFEGUARD SHALL HAVE CURRENT CPR AND FIRST AID

CERTIFICATION.

E. ALL LIFEGUARDS SHALL WEAR DISTINGUISHING SWIMSUITS OR EMBLEMS WHILE ON DUTY.

E. EACH CATEGORY II AND CATEGORY II AQUATIC VENUE THAT HAS A MATER

E. ALL LIFEGUARDS SHALL WEAR DISTINGUISHING SWIMSUITS OR EMBLEMS WHILE ON DUTY.

F. EACH CATEGORY | AND CATEGORY || AQUATIC VENUE THAT HAS A WATER SURFACE AREA IN EXCESS OF 2,000 SQUARE FEET AND A DEPTH OF SIX FEET SHALL PROVIDE AT LEAST ONE ELEVATED LIFEGUARD CHAIR OR PLATFORM. ONE (1) ADDITIONAL ELEVATED LIFEGUARD CHAIR OR PLATFORM SHALL BE PROVIDED FOR EACH ADDITIONAL 2,000 SQUARE FEET OF WATER SURFACE AREA AND A DEPTH OF SIX FEET.

G. EACH CATEGORY || AQUATIC VENUE WHERE LIFEGUARD SERVICE IS NOT REQUIRED OR CONTINUOUSLY PROVIDED, SHALL DISPLAY A WARNING SIGN STATING WARNING - NO LIFEGUARD ON DUTY" IN LETTERS AT LEAST FOUR (4) INCHES HIGH THAT SHALL BE CONSPICUOUSLY PLACED AT THE ENTRANCE TO THE VENUE.

H. EACH CATEGORY | AND || AQUATIC VENUE SHALL HAVE "POOL SPA RILES"
POSTED IN A CONSPICUOUS PLACE, WHICH RULES SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

L. NO PERSON WITH OPEN CUTS, SORES, LESIONS, INFECTIONS, OBVIOUS CONTINUCABLE DISEASE, OR DIARRHEA SHALL USE THE SWIMMING POOL:

II. ANIMALS ARE NOT ALLOWED IN OR AROUND THE SWIMMING POOL. EXCEPT THAT SERVICE ANIMALS AS DEFINED BY THE AMERICANS WITH DISABILITIES ACT MUST BE ALLOWED ON POOL DECKS AND ANY OTHER PLACES THE PUBLIC IS ALLOWED ON POOL DECKS AND ANY OTHER PLACES THE PUBLIC IS ALLOWED, ON WATER SLIDES, ON FLOATATION RAFTS, ETC:

IV. CHILDREN WHO ARE NOT TOILET TRAINED SHALL WEAR TIGHT FITTING PLASTIC UNDERWEAR OR SWIM DIAPERS THAT WILL PREVENT LEAKAGE!

V. NO DIVING (AT SWIMMING POOLS WITHOUT AN APPROVED DIVING WELL CONFIGURATION)?

VI. CHILDREN, AS DEFINED BY THE AQUATIC VENUE, SHALL BE ACCOMPANIED

A. CHILDREN, AS DEFINED BY THE AQUATIC VENUE, SHALL BE ACCOMPANIED BY AN ADULT'S AND VII. THE FOLLOWING ONLY APPLY TO SPAS, HOT-TUBS AND WHIRLPOOL (1) DUE TO HIGH TEMPERATURE AND HUMIDITY THE SPA CAN BE DANGEROUS TO YOUR HEALTH, SO CONSULT YOUR PHYSICIAN BEFORE

(2) OBSERVE REASONABLE TIME LIMITS (NO LONGER THAN 15 MINUTES), THEN LEAVE THE WATER AND COOL DOWN BEFORE RETURNING, I. EACH CATEGORY III AQUATIC VENUE SHALL DISPLAY "SPRAY GROUND RULES" POSTED IN A CONSPICUOUS PLACE, WHICH RULES SHALL INCLUDE, BUT NOT LIMITED TO

POSTED IN A CONSPICUOUS PLACE, WHICH RULES SHALL INCLUDE, BUT NOT LIMITED THE FOLLOWING:

I. NO PERSON WITH OPEN CUTS, SORES, LESIONS, INFECTIONS, OBVIOUS
COMMUNICABLE DISEASE, OR DIARRHEA SHALL USE THE SPRAY GROUND:

II. ANIMALS ARE NOT ALLOWED IN OR AROUND THE SPRAY GROUND:

III. GLASS CONTAINERS ARE NOT ALLOWED IN OR AROUND THE SPRAY GROUND:

IV. CHILDREN WHO ARE NOT TOILET TRAINED SHALL WEAR TIGHT FITTING PLASTIC UNDERWEAR OR SWIM DIAPERS THAT WILL PREVENT LEAKAGE:

V. SPRAY FEATURES USE RECIRCULATED WATER, DO NOT DRINK THE

<sub>(1</sub>4051,7 <u>SAFETY REQUIREMENTS.</u>

A THE FOLLOWING SHALL BE PROVIDED AT EACH CATEGORY I AND CATEGORY II AQUATIC

LA LIFE POLE OR SHEPHERD'S CROOK (2-FEET LONG OR A REACH BEYOND HALF THE DISTANCE OF THE WIDTH OF THE POOL!

1). A RING BUOY, COAST GUARD APPROVED OR EQUIVALENT, FITTED WITH A 1/2 INCH-DIAMETER LINE ATTACHED WITH A LENGTH OF 15 TIMES THE MAXIMUM WIDTH OF THE SWIMMING POOL OR 50 FEET, WHICHEVER IS LESS!

1)1. A BLANKET! AND

1/2. A FIRST AID KIT WITH THE FOLLOWING MINIMUM SUPPLIES;

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(1) TRIANGULAR BANDAGES!

(2) ONE ROLL 1-INCH TAPE!

(3) PLAIN GAUZE PADS, 3" X 3" AND 4" X 4"!

(4) ONE ROLL 2-INCH GAUZE BANDAGE!

(5) ONE TUBE OR BOTTLE OF ANTISEPTIC!

(6) FIRST AID BOOK!

(1) SCISSORS! AND

(8) ASSORTED BAND-AIDS,

(8) ASSORTED BAND-AIDS,

B, ALL LIFESAYING EQUIPMENT SHALL BE MOUNTED IN A CONSPICUOUS PLACE, READILY ACCESSIBLE, AND IN A CONDITION READY FOR USE, EXCEPT THAT THE BLANKET AND FIRST AID KIT MAY BE KEPT IN A DESIGNATED PLACE APPROVED BY THE HEALTH OFFICER. C, EACH CATEGORY I AND II AQUATIC VENUE SHALL HAVE A READILY ACCESSIBLE EMERGENCY TELEPHONE OR OTHER MEANS OF EMERGENCY COMMUNICATION THAT IS OPERATIONAL AND ONLY FOR EMERGENCY USE, DIRECTIONS FOR USE OF THE EMERGENCY TELEPHONE SHALL BE CLEARLY POSTED, EMERGENCY PHONE NUMBERS ALONG WITH THE VENUE'S ADDRESS MUST BE PROMINENTLY POSTED.

D. ALL CHEMICALS USED IN AN AQUATIC VENUE'S MAINTENANCE SHALL BE STORED UNDER CONDITIONS WHERE THEY ARE ONLY ACCESSIBLE TO AUTHORIZED PERSONS, IN A DRY, WELL-VENTILATED STORAGE ROOM ACCORDING TO MANUFACTURERS INSTRUCTIONS. THE FOLLOWING ADDITIONAL REQUIREMENTS SHALL BE OBSERVED:

I. CHEMICALS SHALL BE STORED IN THEIR ORIGINAL CONTAINERS, TIGHTLY CLOSED.
ALL CHEMICAL CONTAINERS, DRUMS, BOXES, AND BAGS SHALL BE STORED AT
LEAST 6 INCHES OFF THE FLOOR OR IN A MANOR TO ELIMINATE CONTACT WITH
STANDING WATER OVERHEAD STORAGE OF CHEMICALS IS PROHIBITED:
III. INCOMPATIBLE CHEMICALS SHALL BE STORED AWAY FROM EACH OTHER IN
SPECIFICALLY IDENTIFIED LOCATIONS IN THE CHEMICAL STORAGE ROOM:
III. NO SMOKING: SIGNS SHALL BE POSTED IN THE CHEMICAL STORAGE ROOM:
AND V. SWIMMING POOL CHEMICALS AND TEST KIT REAGENTS SHALL BE STORED OUT IV. SWIMMING POOL CHEMICALS AND TEST KIT REAGENTS SHALL BE STORED OUT
OF DIRECT SUNLIGHT.

E. IN EACH CATEGORY | AND CATEGORY || AQUATIC VENUE THE DEPTH OF THE
WATER SHALL BE PLAINLY MARKED AT OR ABOVE THE WATER SURFACE ON THE VERTICAL
WALL OF THE AQUATIC VENUE, AND ON THE EDGE OF THE DECK NEXT TO THE AQUATIC
VENUE, WHERE DEPTH MARKERS CANNOT BE PLACED ON THE VERTICAL WALLS ABOVE
THE WATER LEVEL, OTHER MEANS SHALL BE USED SO THAT MARKINGS SHALL BE PLAINLY
VISIBLE TO PERSONS IN THE AQUATIC VENUE, MARKERS SHALL BE AT LEAST 4-INCH HIGH
NUMBERS AND OF A COLOR CONTRASTING WITH THE BACKGROUND, DEPTH MARKERS SHALL
BE:

BE:

LOCATED AT THE POINTS OF MAXIMUM AND MINIMUM DEPTHS:

LON BOTH SIDES AND BOTH ENDS OF THE AQUATIC VENUE:

II. ON BOTH SIDES AND BOTH ENDS OF THE AQUATIC VENUE:

III. SPACED SO THAT THE DISTANCE BETWEEN ADJACENT MARKERS IS NOT GREATER THAN 25 FEET WHEN MEASURED PERIPHERALLY! AND

IV. AT APPROPRIATE POINTS AS TO DENOTE WATER DEPTH IN DIVING AREAS, IF THE SWIMMING POOL IS DESIGNED FOR DIVING (SWIMMING POOLS WITHOUT AN APPROVED DIVING WELL CONFIGURATION SHALL ALSO HAVE 'NO DIVING' INCLUDED IN THE POSTED POOL RULES).

F, THE POINT OF TRANSITION WITH AN ABRUPT CHANGE BETWEEN THE DEEP AND THE SHALLOW AREAS SHALL BE IDENTIFIED BY A BUOYED LIFELINE THAT SEPARATES THE DEEP AREA FROM THE SHALLOW AREA AND IS LOCATED 2-FEET TOWARD THE SHALLOW END FROM THE POINT OF TRANSITION OR BY A LINE OF CONTRASTING COLOR ON THE FLOOR AND WALLS OF THE POOL, PRESENT AT THE POINT OF TRANSITION.

G. IF NIGHT SWIMMING IS PERMITTED, DECK AND UNDERWATER LIGHTING SHALL BE PROVIDED TO ILLUMINATE ALL UNDERWATER AREAS SO THAT WATER CLARITY REQUIREMENTS

H. ELECTRICAL EQUIPMENT AND WIRING IN OR ADJACENT TO ANY AQUATIC VENUE SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NEC 70), ARTICLE 680 AND ANY ADDITIONAL LOCAL REQUIREMENTS.

L STEPS, LADDERS, STAIRS, OR RAMPS SHALL BE PROVIDED AT THE SHALLOW AND DEEP ENDS OF THE AQUATIC VENUE. IF THE AQUATIC VENUE IS OVER 30 FEET WIDE STEPS, LADDERS, STAIRS, OR RAMPS SHALL BE INSTALLED ON EACH SIDE, RAMPS SHALL NOT EXCEED A SLOPE OF 1:12, HANDRAILS SHALL BE PROVIDED FOR USE WITH ALL LADDERS, STEPS, AND STAIRS, HANDRAILS SHALL BE MAINTAINED IN SOUND WORKING CONDITION. J. ALL STEPS, RAMPS, AND DIVING BOARDS ARE TO BE OF NON-SLIP CONSTRUCTION OR BE

K. AN AQUATIC VENUE SHALL BE IMMEDIATELY CLOSED AND THE SWIMMERS REMOVED FROM THE WATER WHEN ANY OF THE FOLLOWING OCCURS, CLOSURE RESULTING FROM AN INSPECTION WILL REQUIRE A RE-INSPECTION BEFORE THE AQUATIC VENUE BEGINS OPERATING AGAIN.

I. FAILURE TO MEET REQUIRED DISINFECTANT CONCENTRATIONS:

II. FAILURE TO MEET WATER CLARITY REQUIREMENTS:

III. THE GRATE ON THE MAIN DRAIN IS MISSING OR BROKEN:

IV. FAILURE TO MEET LIFEGUARD REQUIREMENTS:

V. A RECIRCULATION OR FILTER PUMP IS NON-OPERATIONAL:

VI. THE WATER TEMPERATURE EXCEEDS 1040 FAHRENHEIT:

VII. A FECAL OR VOMIT INCIDENT (DOCUMENTATION OF THE INCIDENT AND MEASURES TAKEN MUST BE DOCUMENTED AND SUBMITTED TO THE HEALTH OFFICER.):

VIII. THE PRESENCE OF AN ELECTRICAL STORM AT AN OUTDOOR VENUE: OR

OFFICER: 3
VIII. THE PRESENCE OF AN ELECTRICAL STORM AT AN OUTDOOR VENUE: OR
IX. READILY ACCESSIBLE EMERGENCY TELEPHONE/COMMUNICATIONS DEVICE IS

L. EACH AQUATIC VENUE SHALL BE IN COMPLIANCE WITH ALL CURRENT AND ANY FUTURE STATE AND FEDERAL REGULATIONS, THIS INCLUDES BUT NOT LIMITED TO THE VIRGINIA GRAEME BAKER POOL AND SPA SAFETY ACT AND THE AMERICANS WITH DISABILITIES ACT (ADA).

M. A LICENSED AQUATIC VENUE OPERATOR SHALL NOTIFY THE HEALTH OFFICER AS SOON AS POSSIBLE IN THE EVENT OF A DROWNING THAT RESULT IN A DEATH OR FECAL VOMIT INCIDENT, EACH AQUATIC VENUE SHALL HAVE AND FOLLOW AN APPROVED CONTAMINATION RESPONSE PLAN FOR DEALING WITH FECAL, BLOOD, AND VOMIT CONTAMINATION, THE AQUATIC VENUE SHALL DOCUMENT EACH FECAL, BLOOD, AND VOMIT INCIDENT, DOCUMENTATION OF FECAL, BLOOD, AND VOMIT INCIDENTS SHALL BE RETAINED FOR AT LEAST ONE (1) YEAR AFTER THE INCIDENT.

N. THE WATER SUPPLY FOR EACH AQUATIC YENUE SHALL BE FROM A WATER SOURCE APPROYED BY THE HEALTH OFFICER NO PIPING ARRANGEMENTS SHALL EXIST WHICH, UNDER ANY CONDITIONS, WILL PERMIT SEWAGE OR WASTEWATER TO ENTER THE AQUATIC YENUE'S WATER SYSTEM OR PERMIT WATER FROM AN AQUATIC VENUE TO ENTER THE

O. BECAUSE OF SERIOUS SAFETY CONSIDERATIONS, THE USE OF GAS CHLORINE IS NOT RECOMMENDED AND MAY NOT BE APPROVED, WHEN USED, THE OPERATION MUST BE IN COMPLIANCE WITH ALL STATE AND FEDERAL SAFETY REQUIREMENTS. 40518 WATER QUALITY OF SWIMMING POOLS.

A. THE WATER SHALL HAVE SUFFICIENT CLARITY AT ALL TIMES SO THAT EITHER A BLACK DISC SIX (6) INCHES IN DIAMETER IS READILY VISIBLE IN THE DEEPEST PORTION OF THE SWIMMING POOL OR THE BOTTOM DRAIN AT THE DEEPEST POINT IS CLEARLY VISIBLE. BI, THE WATER SHALL BE FREE OF ALL SCUM AND FLOATING MATTER ON THE SURFACE AND DIRT AND OTHER MATERIAL ON THE FLOOR OF THE SWIMMING POOL.

C. DISINFECTION SHALL BE PROVIDED BY MECHANICAL FEEDERS, THE WATER IN ALL PARTS OF THE SWIMMING POOL SHALL HAVE A MINIMUM FREE AVAILABLE CHLORINE (FAC) CONTENT OF AT LEAST 10 PPM, BUT FAC SHALL NOT EXCEED 100 PPM.

I. BROMINE USED AS A DISINFECTANT SHALL BE MAINTAINED AT A RESIDUAL LEVEL OF NOT LESS THAN 20 PPM BUT SHALL NOT EXCEED 100 PPM: AND IL. OTHER DISINFECTING MATERIALS OR METHODS MUST BE APPROVED BY THE HEALTH OFFICER.

D. IF CYANURIC ACID OR CHLORINATED ISOCYANURATES ARE USED, THE CONCENTRATION OF CYANURIC ACID IN THE WATER SHOULD BE AT LEAST 30 PPM AND SHALL NOT EXCEED 1000 PPM AND THE FREE AVAILABLE CHLORINE (FAC) SHALL BE AT LEAST 20 PPM.

E. THE WATER SHALL BE MAINTAINED AT A PH OF NOT LESS THAN 12 AND NOT OVER F. THE TOTAL ALKALINITY IS RECOMMENDED TO BE WITHIN THE RANGE OF 60 PPM TO 180 FINE TOTAL ALPALISTIC TO RECOUNTING TO SHALL BE ADDED AND HARSH OR IRRITATING CHEMICAL IN CONCENTRATED FORM SHALL BE ADDED MANUALLY AND DIRECTLY TO THE WATER OF ANY SWIMMING POOL WHILE ANY PERSON IS PRESENT IN THE WATER WHEN CHEMICALS ARE ADDED, USE OF THE SWIMMING POOL SHALL CEASE UNTIL SUCH TIME AS THE CHEMICAL IS COMPLETELY DISSOLVED AND IS THOROUGHLY DIFFUSED THROUGHOUT THE SWIMMING POOL WATER. H, THE WATER IN A SWIMMING POOL SHALL BE CONTINUOUSLY RECIRCULATED. THE CIRCULATION SYSTEM FOR SWIMMING POOLS SHALL ACHIEVE A TURNOVER RATE OF SIX (6) HOURS OR LESS. THE CIRCULATION SYSTEM FOR ANY WADING POOL SHALL ACHIEVE A TURNOVER RATE OF TWO (2) HOURS OR LESS. EACH CATEGORY I AND CATEGORY II SWIMMING/WADING POOL SHALL HAVE A FLOW METER INSTALLED THAT IS CAPABLE OF MEASURING FROM ½ TO AT LEAST I-1/2 TIMES THE DESIGNED FLOW OF THE CIRCULATION SYSTEM. 4051.13 OPERATING RECORDS.

A. EACH CATEGORY I, II, OR III AQUATIC VENUE SHALL MAINTAIN RECORDS SHOWING: I, DISINFECTANT RESIDUALS TESTING A MINIMUM OF TWO TIMES DAILY OR AS OFTEN AS NEEDED TO MAINTAIN THE WATER QUALITY AS INDICATED IN THIS SECTION. SECTION:

II. PH READING TESTING A MINIMUM OF TWO TIMES DAILY OR AS OFTEN AS NEEDED TO MAINTAIN THE WATER QUALITY AS INDICATED IN THE SECTION:

III. CHEMICALS USED DURING THE OPERATION PERIOD:

IV. CYANURIC ACID LEVEL TESTING AT LEAST ONCE A WEEK:

V. ALKALINITY TESTING AT LEAST ONCE A WEEK: AND

VI. ALL FECAL, BLOOD, AND VOMIT INCIDENTS.

B, N/A C, ALL RECORDS SHALL BE RETAINED FOR AT LEAST ONE (1) YEAR FROM DATE OF TEST,

A. THE FOLLOWING TEST EQUIPMENT SHALL BE MAINTAINED AT EACH SWIMMING POOL, WADING POOL, SPA, HOT-TUB, OR WHIRL POOL BATH:

1. A DPD CHLORINE TESTER OR BROMIDE TESTER, CAPABLE OF MEASURING RESIDUALS IN THE RANGE OF Ø TO 100 PPM. WHEN CHLORINE IS USED, THE TEST EQUIPMENT SHALL BE CAPABLE OF MEASURING BOTH FREE AVAILABLE CHLORINE AND TOTAL COMBINED CHLORINE:

11. A PH TESTER CAPABLE OF MEASURING PH BETWEEN 68 AND 821

11. AN ALKALINITY TESTER CAPABLE OF MEASURING THE RANGE OF 50 TO 200

PPM:

PFM1:

IV. A CYANURIC ACID TEST KIT (WHERE APPLICABLE): AND

V. A CALCIUM HARDNESS TESTER CAPABLE OF MEASURING THE RANGE OF 150 TO

500 PPM. (REQUIRED FOR EACH SPA, HOT-TUB, OR WHIRLPOOL BATH,

RECOMMENDED FOR ALL AQUATIC VENUES)

405115 FENCES/ENCLOSURES/SAFETY COVERS.

A. EACH CATEGORY I, II, OR III AQUATIC VENUE SHALL BE PROTECTED BY A FENCE, WALL, BUILDING, OR OTHER ENCLOSURE, OR ANY COMBINATION THEREOF WHICH COMPLETELY ENCLOSES THE AQUATIC VENUE AREA SUCH THAT ALL THE FOLLOWING CONDITIONS ARE MET;

I. CONSTRUCTED SO AS TO AFFORD NO EXTERNAL HANDHOLDS OR FOOTHOLDS:

III. A FOUR (4) FOOT MINIMUM HEIGHT IS PROVIDED ENTIRELY AROUND THE AQUATIC VENUE: III. A FOUR (4) FOOT MINIMUM HEIGHT IS PROVIDED ENTIRELY AROUND THE AQUATIC VENUE:

IV. THE HORIZONTAL SPACE BETWEEN VERTICAL MEMBERS OF THE ENCLOSURE SHALL NOT EXCEED FOUR (4) INCHES!

V. THE HEIGHT OF ANY OPENING UNDER THE BOTTOM OF THE ENCLOSURE SHALL NOT EXCEED TWO (2) INCHES! AND

VI. WHERE NO LIFEGUARDS ARE PRESENT, ALL GATES AND DOORS SHALL BE EQUIPPED WITH SELF-CLOSING AND POSITIVE SELF-LATCHING CLOSURE

MECHANISMS WHICH SHALL BE LOCATED AS HIGH AS POSSIBLE AND COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS.

D. IF A SAFETY COVER IS USED IT MUST MEET ASTM STANDARD FIS46-91

STANDARD PERFORMANCE SPECIFICATION FOR SAFETY COVERS AND LABELING REQUIREMENTS FOR ALL COVERS FOR SWIMMING POOLS, SPAS, AND HOT TUBS.

405116 WASTEWATER DISPOSAL ALL WASTEWATER FROM ANY CATEGORY I, II, OR III AQUATIC VENUE SHALL BE DISPOSED OF IN A MANUER WHICH WILL NOT CREATE A NUISANCE AND IS IN ACCORDANCE WITH APPLICABLE LOCAL

405[17 GENERAL MAINTENANCE.

EACH CATEGORY I, II, OR III AQUATIC VENUE MUST BE MAINTAINED IN SUCH A WAY AS NOT TO CREATE A NUISANCE OR PUBLIC HEALTH RISK.

A. THE HEALTH OFFICER SHALL CONDUCT SUCH INSPECTIONS AS OFTEN AS DEEMED IECESSARY TO ENSURE COMPLIANCE WITH ALL THE PROVISIONS OF THIS CHAPTER AND IE/SHE SHALL HAVE RIGHT OF ENTRY AT ANY REASONABLE TIME TO THE AQUATIC VENUE, HE/SHE SHALL HAVE RIGHT OF ENTRY AT ANY REASONABLE TIME TO THE AQUATIC VENUE, IT'S RECORDS, AND ACCOMPANYING FACILITIES.

B. UPON INVESTIGATION OR INSPECTION OF AN AQUATIC VENUE, THE HEALTH OFFICER DETERMINES THAT CONDITIONS EXIST THAT WARRANT THE CLOSING OF THE FACILITY, THE HEALTH OFFICER SHALL ISSUE A WRITTEN CLOSING ORDER TO THE OWNER OR OPERATOR OF THE AQUATIC VENUE, NOTING THE VIOLATIONS. A NOTICE OF CLOSURE: SIGN SHALL BE CONSPICUOUSLY PLACED AT THE ENTRANCE TO THE FACILITY, IT SHALL BE UNLAWFUL FOR ANY PERSON TO REMOVE A NOTICE OF CLOSURE: SIGN UNLESS AUTHORIZED TO DO SO BY THE HEALTH OFFICER. THE OWNER OR OPERATOR, THEREAFTER, SHALL BE RESPONSIBLE FOR PROHIBITING ANY PERSON FROM USING THE FACILITY UNTIL THE VIOLATIONS HAVE BEEN ABATED. IF THE HEALTH OFFICER NOTES VIOLATIONS, WHICH DO NOT WARRANT CLOSING THE FACILITY, A WRITTEN NOTICE SHALL BE PROVIDED TO THE OWNER OR OPERATOR WITH REASONABLE TIMES FOR COMPLIANCE, IF THE NOTED VIOLATIONS ARE NOT ABATED WITHIN THE TIME SET FORTH IN THE NOTICE, THE FACILITY SHALL THEN BE AUTOMATICALLY CLOSED UNLESS THE HEALTH OFFICER, UPON GOOD CAUSE, EXTENDS THE TIME FOR COMPLIANCE.

C. THE FOLLOWING VIOLATIONS SHALL WARRANT IMMEDIATE CLOSURE BY THE HEALTH

C. THE FOLLOWING VIOLATIONS SHALL WARRANT IMMEDIATE CLOSURE BY THE HEALTH OFFICER. CLOSURE RESULTING FROM AN INSPECTION WILL REQUIRE A RE-INSPECTION BEFORE THE AQUATIC VENUE BEGINS OPERATIONS AGAIN.

L. ANY HAZARDOUS CONDITION THAT MAY CREATE AN IMMEDIATE DANGER TO LIFE, HEALTH, OR SAFETY?

IL FAILURE OF THE AQUATIC VENUE'S EQUIPMENT OR STRUCTURE THAT MAY JEOPARDIZE THE HEALTH OR SAFETY OF THE PERSONS USING OR OPERATING IT:

IIL FAILURE TO MEET REQUIRED DISINFECTANT CONCENTRATIONS:

IV. FAILURE TO MEET WATER CLARITY REQUIREMENTS:

V. THE GRATE ON THE MAIN DRAIN IS MISSING OR BROKEN:

VI. FAILURE TO MEET LIFEGUARD REQUIREMENTS:

VII. A SPA'S WATER TEMPERATURE EXCEEDS 104° FAHRENHEIT:

VIII. READILY ACCESSIBLE EMERGENCY TELEPHONE/COMMUNICATIONS DEVICE

IS INOPERABLE:

IX. FAILURE TO HAVE ALL ENTRANCES EQUIPPED WITH SELF-CLOSING AND SELF-LATCHING DOOR/GATE:

X. LACK OF REQUIRED SAFETY EQUIPMENT:

XI. FAILURE TO MEET THE LICENSED AQUATIC VENUE OPERATOR REQUIREMENT:

XII. REPEAT VIOLATIONS FROM PREVIOUS INSPECTION(3): OR

XIII. IF AN AQUATIC VENUE HAS BEEN LINKED TO A RECREATIONAL WATER ILLNESS OUTBREAK CONFIRMED BY A LICENSED PHYSICIAN.

D. THE HEALTH OFFICER SHALL CONDUCT A FOLLOW-UP INSPECTION TO INSURE ALL VIOLATIONS FROM THE INITIAL INVESTIGATION(S)/INSPECTION(S) HAVE BEEN ABATED.
FEES SHALL APPLY FOR ALL FOLLOW-UP INSPECTIONS,
E. IF VIOLATION(S) ARE CORRECTED AT THE TIME OF THE INITIAL INVESTIGATION/INSPECTION A FOLLOW-UP INSPECTION WILL NOT BE REQUIRED.
G. CLOSING ORDERS SHALL BE REPEALED ONCE ALL VIOLATIONS THAT WARRANTED THE CLOSING ORDER HAVE BEEN ABATED AND INSPECTED BY THE HEALTH OFFICER.

4052, ENFORCEMENT OF MISSOURI STATE PUBLIC HEALTH RULES AND REGULATIONS. THE HEALTH OFFICER SHALL HAVE AUTHORITY TO ISSUE GENERAL ORDINANCE SUMMONSES TO PERSONS FOR ALLEGED VIOLATIONS OF SECTIONS 192300 AND 320, RSMO, AND CORRESPONDING PROVISIONS OF THE MISSOURI CODE OF STATE REGULATIONS WHICH, UPON CONVICTION, ARE PUNISHABLE PURSUANT TO

SECTION 4054, OF THIS CHAPTER. 4053, MORE RESTRICTIVE PROVISION SHALL GOVERN.

IN THE CASE OF A CONFLICT BETWEEN ANY PROVISION OF THIS CHAPTER AND A PROVISION OF ANY OTHER RILLE, REGULATION, AND STATUTE OR LAW, WHETHER FEDERAL, STATE, OR LOCAL, THE MORE RESTRICTIVE PROVISION SHALL GOVERN.

4054, PENALTY PROVISION.

ANY PERSON, FIRM, PARTNERSHIP, OR CORPORATION WHO VIOLATES ANY PROVISION OF THIS CHAPTER SHALL, ON CONVICTION, BE FINED NOT MORE THAN ONE THOUSAND DOLLARS (\$1,000,00) OR SENTENCED TO NOT MORE THAN ONE (1) YEAR IN THE COUNTY JAIL, OR BOTH, (ORD, 3168, EFF., 08/31/01) 4054,1 SEPARATE OFFENSE,

EACH DAY THAT A VIOLATION OF THIS CHAPTER EXISTS SHALL CONSTITUTE A SEPARATE OFFENSE. (ORD. 3168, Eff. 08/31/01) 4055, PAYMENT OF PROPERTY TAXES,

NOTWITHSTANDING ANYTHING CONTAINED IN THIS CHAPTER TO THE CONTRARY, THE ISSUANCE OF A INDER THIS CHAPTER TO ANY APPLICANT MAY BE WITHHELD AND ANY PERMIT PREVIOUSLY ISSUED UNDER THIS CHAPTER TO ANY APPLICANT MAY BE SUSPENDED OR REVOKED, IF PROPERTY TAX DUE TO COUNTY ON ANY APPLICANT PROPERTY (DEFINED BELOW) IS OR BECOMES DELINQUENT, AS USED HEREIN, THE TERM "APPLICANT PROPERTY" SHALL MEAN ANY REAL OR PERSONAL PROPERTY THAT IS OWNED BY SUCH APPLICANT OR THAT IS USED IN THE ACTIVITY FOR WHICH THE PERMIT IS REQUIRED AND OUNED
BY ANY PARTY RELATED TO SUCH APPLICANT OR OWNED BY ANY ENTITY OWNED OR
CONTROLLED BY OR
UNDER COMMON OWNERSHIP OR CONTROL WITH SUCH APPLICANT, (ORD, 4321, EFF, 08/09/11± ORD,
4390, EFF, 02/21/12)

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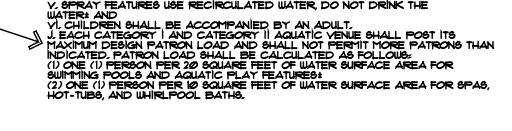
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EXHAUST FAN SCHEDULE												
										ELECT	RICAL	
MARK	AREA SERVED	MANUFACTURER	MODEL	TYPE	CFM	ESP (IN)	DRIVE	POWER	OPERATION	VOLTS	PHASE	WEIGHT
EF-1	MEN R.R.	PANASONIC	FV-08-11VFL5	CEILING	110	0.25	DIRECT	26.5w	LIGHT SWITCH	120	1	12
EF-2	WOMEN R.R.	PANASONIC	FV-08-11VFL5	CEILING	110	0.25	DIRECT	26.5w	LIGHT SWITCH	120	1	12
EF-3	EQUIPMENT ROOM	FANTECH	FR-160	IN-LINE	225	0.5	DIRECT	125w	BREAKER	120	1	8

# MECHANICAL & PLUMBING SPECIFICATIONS

# 1. GENERAL PROVISIONS:

AUTHORITIES.

- A. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION OF THE PLUMBING SYSTEMS
- B. OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATIONS OF COMPLIANCE OR APPROVAL AS REQUIRED BY
- C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS OF THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE.
- D. PROVIDE ALL NECESSARY CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS NECESSARY. PATCH AROUND ALL OPENINGS SHALL MATCH ADJACENT AREA. COORDINATE ALL ROOFING WORK WITH OWNER OR RESPONSIBLE PARTY, SO THAT
- THE EXISTING ROOFING WARRANTY WILL BE MAINTAINED. E. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECT FOR A PERIOD OF ONE YEAR FROM FINAL
- F. INSPECTION OF THE SITE: THIS CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE MEP DRAWINGS, SPECIFICATIONS, DETAIL, AND THE SITE. THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY SPECIAL OR UNUSUAL PROBLEMS, CONFLICTS,
- OR OBSTRUCTIONS THAT AFFECT HIS BID. G. FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS AND FITTINGS REQUIRED FOR INSTALLATION. DO NOT SCALE DRAWINGS. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DATA AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION SECTIONS WHERE MECHANICAL WORK INTERFACES WITH OTHER TRADES.
- H. INCLUDE ALL BASIC MATERIALS AND CONSTRUCTION METHODS INCLUDING PIPES, PIPE FITTINGS, AND SPECIALTIES AND SUPPORTING DEVICES, VALVES, PIPE AND VALVE IDENTIFICATION, PUMPS, VIBRATION ISOLATION, ETC.

# 2. PLUMBING

- A. PROVIDE AND APPROVED WATER HAMMER ARRESTOR FOR EACH PLUMBING FIXTURE SUPPLY AS REQUIRED BY FIXTURE MANUFACTURER.
- B. ALL EXPOSED PIPE SHALL BE CHROME PLATED BRASS PIPE, NO FERROUS PIPE.
- C. PROVIDE CLEANOUTS AT EACH CHANGE IN DIRECTION AND AT 100 FOOT INTERVALS IN STRAIGHT RUNS. D. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND TRAPS.
- E. CLEANOUTS:
- 1. UNFINISHED FLOOR (FCO): JR SMITH #4020, OR EQUAL.
- 2. WALL (WCO): JR SMITH #4472, OR EQUAL, 24" ABOVE THE FLOOR. 3. GRADE (GCO): JR SMITH #4256, OR EQUAL, WITH HEAVY DUTY CAST IRON BODY AND COVER.
- F. PROVIDE DIELECTRIC UNIONS WITH APPROPRIATE END CONNECTION TO MATCH THE PIPE SYSTEM IN WHICH INSTALLED (SCREWED, SOLDERED, OR FLANGED). PROVIDE DIELECTRIC UNIONS ON ALL PIPING CONNECTIONS TO HOT WATER HEATERS AND EXPANSION
- G. ALL SEWER PIPING LOCATED INSIDE THE BUILDING SHALL BE INSTALLED WITH THE FOLLOWING SLOPES.
- 1. INSTALL 2-1/2" AND SMALLER PIPE AT 1/4" PER FOOT FALL.
- 2. INSTALL 3" AND LARGER PIPE AT 1/8" PER FOOT FALL. F. ALL SEWER PIPING LOCATED EXTERIOR TO THE BUILDING SHALL BE INSTALLED WITH THE FOLLOWING SLOPES.
- 1. INSTALL 4" AND SMALLER PIPE AT A MINIMUM OF 2% SLOPE. 2. INSTALL 6" AND LARGER PIPE AT A MINIMUM OF 1% SLOPE.

- 3. PIPING
  A. DOMESTIC COLD, AND HOT. 1. TYPE L HARD DRAWN COPPER TUBING, ASTM B-88 WITH WROUGHT BRONZE SOLDERED FITTINGS.
- BALL VALVE: CRANE #932 OR EQUAL.
- B. SANITARY SEWER AND VENTS. 1. SCHEDULE 40 PVC SOLID PLASTIC PIPE WITH DWV FITTINGS.

4. INSULATION: A. ALL INSULATIONS AND ACCESSORIES SHALL HAVE A FIRE HAZARD CLASSIFICATION WITH A FLAME SPREAD RATING OF NOT OVER

# WITH NFPA.

B. PIPE INSULATION (ABOVE GRADE): 1. THE PIPE INSULATION USED SHALL HAVE A THERMAL CONDUCTIVITY OF 0.27 BTU PER IN/HR\*SQ-FT\*\*F OR LESS.

25, A FUEL CONTRIBUTION RATING OF NOT OVER 50, AND A SMOKE DEVELOPMENT RATING OF NOT OVER 50, IN ACCORDANCE

- 2. FLEXIBLE CLOSED CELL ELASTOMERIC THERMAL INSULATION, UNSLIT OR PRESLIT WITH PRÉSSURE SENSITIVE ADHESIVE SYSTEM FOR CLOSURE AND VAPOR SEALING, EQUAL TO ARMSTRONG AP ARMAFLEX OR ARMAFLEX 2000. 3. INSULATION SCHEDULE:
- a. DOMESTIC HOT WATER:

# 5. TESTING, BALANCING AND CLEANING:

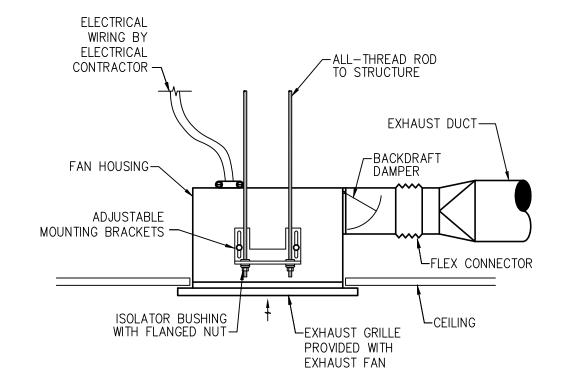
- A. ALL PIPING SHALL BE TESTED FOR LEAKS BEFORE BEING CONCEALED IN WALL CONSTRUCTION OR COVERED WITH INSULATION. B. SEWER AND VENT PIPING SHALL BE HYDROSTATICALLY TESTED WITH NO LESS THAN 10 FEET OF HEAD FOR A PERIOD OF NOT LESS THAN 15 MINUTES, PER THE LOCAL PLUMBING CODE, WITH NO LEAKS.
- C. DOMESTIC WATER PIPING SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF NOT LESS THAN 1-1/2 TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 60 PSI, FOR A PERIOD OF NOT LESS THAN 2 HOURS, WITH NO LEAKS.

# GENERAL NOTES

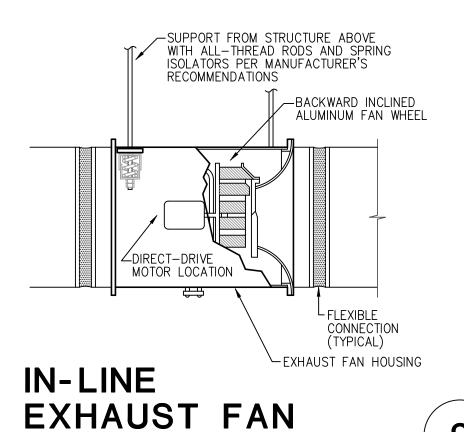
- A. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- B. COORDINATE INSTALLATION OF MECHANICAL SYSTEM WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION AND AVOID CONFLICTS. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. VERIFY DUCT SPACE AVAILABLE ABOVE ALL CEILINGS PRIOR TO ANY FABRICATION OF INSTALLATION.
- C. ALL ROOF AND WALL PENETRATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. PROVIDE ALL REQUIRED SLEEVES, FLASHINGS, CURBS, REINFORCED ANGLES, SUPPORTING FRAMES, ETC. UNLESS THEY ARE SPECIFICALLY CALLED OUT TO BE FURNISHED BY OTHERS.
- D. THE ELECTRICAL SYSTEM DESIGN IS BASED IN PART ON THE SPECIFIED HVAC EQUIPMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE ELECTRICAL REQUIREMENTS OF THE HVAC EQUIPMENT BEING FURNISHED. ANY CHANGES TO THE ELECTRICAL SYSTEM DUE TO HVAC EQUIPMENT OTHER THAN THE SPECIFIED EQUIPMENT BEING FURNISHED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

# **# KEYED PLAN NOTES**

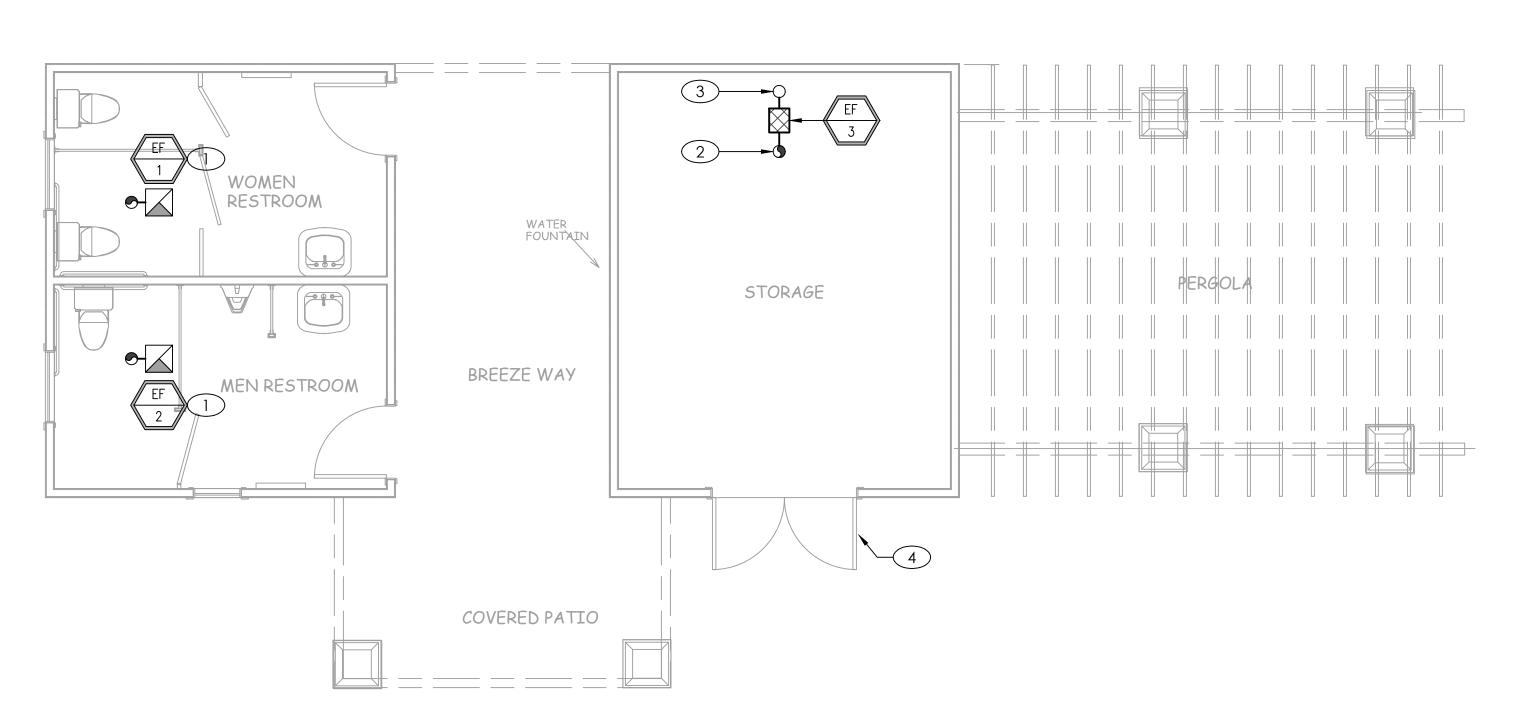
- 1. CEILING MOUNT EXHAUST FAN WITH 4"Ø DUCT UP THROUGH ROOF. DUCT SHALL TERMINATE 16" ABOVE ROOF WITH WEATHERPROOF RAIN CAP. SEAL ROOF PENETRATION WEATHER TIGHT.
- 2. 6"ø PVC EXHAUST DUCT UP THROUGH ROOF. DUCT SHALL TERMINATE 16" ABOVE ROOF WITH PVC WEATHER CAP.
- 3. 6"Ø PVC EXHAUST DUCT DOWN. TERMINATE EXHAUST DUCT 12" A.F.F. COVER OPENING WITH 1/4"X1/4" WIRE MESH SCREEN. COORDINATE LOCATION WITH POOL CONSULTANT.
- 4. LOUVERED DOOR BY GENERAL CONTRACTOR.



# **CEILING MOUNTED EXHAUST FAN** SCALE: NO SCALE



SCALE: NO SCALE



MECHANICAL PLAN

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







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MECHANICAL PLAN AND

**SPECIFICATIONS** 

DATE: 05.20.2022 JOB NO.: 22-133 SHEET:

PLUMBING FIXTURE SCHEDULE									
LAV	HANDICAP ACCESSIBLE WALL MOUNT LAVATORY WITH CARRIER, PROFLO MODEL PF5411WH, VITREOUS CHINA, WHITE, SELF-RIMMING COUNTER TOP, PROFLOW PFWS3006 ADA COMPLIANT FAUCET, SS FLEX SUPPLY RISERS WITH CHROME PLATED STOP VALVES, P-TRAP WITH CLEANOUT AND ESCUTCHEONS. INSULATE WITH "HANDI-LAV-GLUARD" MODEL 102, OR EQUAL.								
WC	FLOOR-MOUNTED ADA WATER CLOSET: PROFLO MODEL PF1503WH, HANDICAP ACCESSIBLE, VIREOUS CHINA, 1.28 GPF, ELONGATED BOWL, FLOOR MOUNTED, WHITE, VITREOUS CHINA TANK AND COVER CONTAINING FLUSHOMETER/TANK WITH BUILT-IN PRESSURE REGULATOR AND BACKFLOW PREVENTER, WHITE OPEN FRONT SEAT, CHROME STOPS, C.P. FLEXIBLE RISER TUBE, BOLT CAPS, AND ESCUTCHEON								
FD	FLOOR DRAIN: SOUIX CHIEF 842-3PNR, FLOOR DRAIN, PVC BODY AND CLAMPING COLLAR, ADJUSTABLE 5-1/2" ROUND NICKEL BRONZE STRAINER. PROVIDE WITH PROSET SYSTEMS "TRAP GUARD" INSERT FOR ACTUAL FLOOR DRAIN MODEL AND SIZE PROVIDED.								
FS	FLOOR SINK, JOSAM 49420-LF-NB SERIES SQUARE CAST IRON 12-1/4" DEEP SUPER FLO-SEPTOR® FLOOR SINK WITH ACID-RESISTING INTERIOR, BOTTOM OUTLET, ALUMINUM INTERNAL DOME STRAINER, NIKALOY SANITARY SLOPED RIM AND NIKALOY, LIGHT-DUTY, ANTI-TILTING, SUPER-FLO® GRATE. 16x16 SQUARE TOP, 4" OUTLET.								
DF	DRINKING FOUNTAIN. ELKAY EZH20. ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION. ADA COMPLIANT. COLOR BY OWNER/ARCHITECT. MOUNT AT HEIGHT DETERMINED BY ARCHITECT. 115V/1PH, 4.2 FLA, 370 WATTS, 71 LBS.								
RPZ1	REDUCED PRESSURE ZONE BACKFLOW PREVENTER: 1", WATTS # LF009QT, MEETING ASSE 1013, LEAD FREE CAST BRONZE BODY, QUARTER TURN TESTING COCKS, QUARTER TURN BALL VALVES, AND # 909AG AIR GAP FITTING.								
RPZ2	REDUCED PRESSURE ZONE BACKFLOW PREVENTER: 3/4", WATTS # LF009QT, MEETING ASSE 1013, LEAD FREE CAST BRONZE BODY, QUARTER TURN TESTING COCKS, QUARTER TURN BALL VALVES, AND # 909AG AIR GAP FITTING.								
FPWH	FREEZE-PROOF WALL HYDRANT: PRIER PRODUCTS #C-6341, 3/4" FPT INET, 3/4" THREADED HOSE CONNECTION, LOOSE KEY HANDLE HYDRANT LENGTH AS REQUIRED FOR INSTALLATED WALL THICKNESS, ADJUSTABLE WALL CLAMP, BRASS BOX WITH SATIN NICKEL PLATED FINISH AND INTEGRAL ASSE 1052 DOUBLE CHECK VACUUM BREAKER.								
UR1	URINAL: SLOAN WEUS1000.1001, WHITE, VITREOUS CHINA, WASHOUT WALL URINAL, 0.1 GALLONS PER FLUSH, 27"H X 17"W, FURNISH WITH FLUSHOMETER, VANDAL RESISTANT CHROME PLATED HOUSING, ADJUSTABLE TAILPIECE AND VANDAL RESISTANT OUTLET STRAINER. MOUNT NON-ADA AT 24" FROM FINISHED FLOOR, MOUNT ADA URINAL 17" FROM FINISHED FLOOR. TRIM:								

SUITABLE CARRIER WITH STANCHIONS TO FLOOR.

EWH1

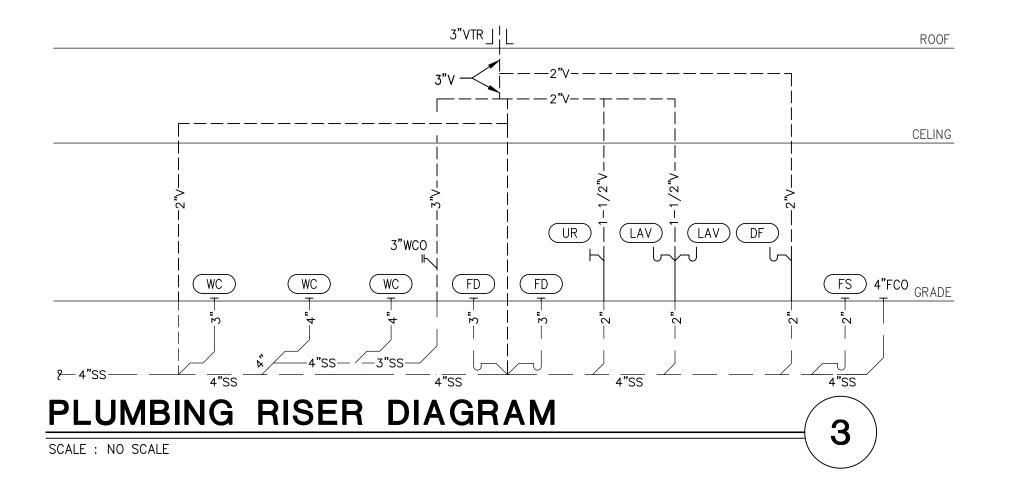
EWH2

ELECTRIC WATER HEATER, EEMAX, MODEL SP2412, 2.4KW, 20 AMP, 110 VOLT,

ELECTRIC WATER HEATER, EEMAX, MODEL SP2412, 2.4KW, 20 AMP, 110 VOLT,

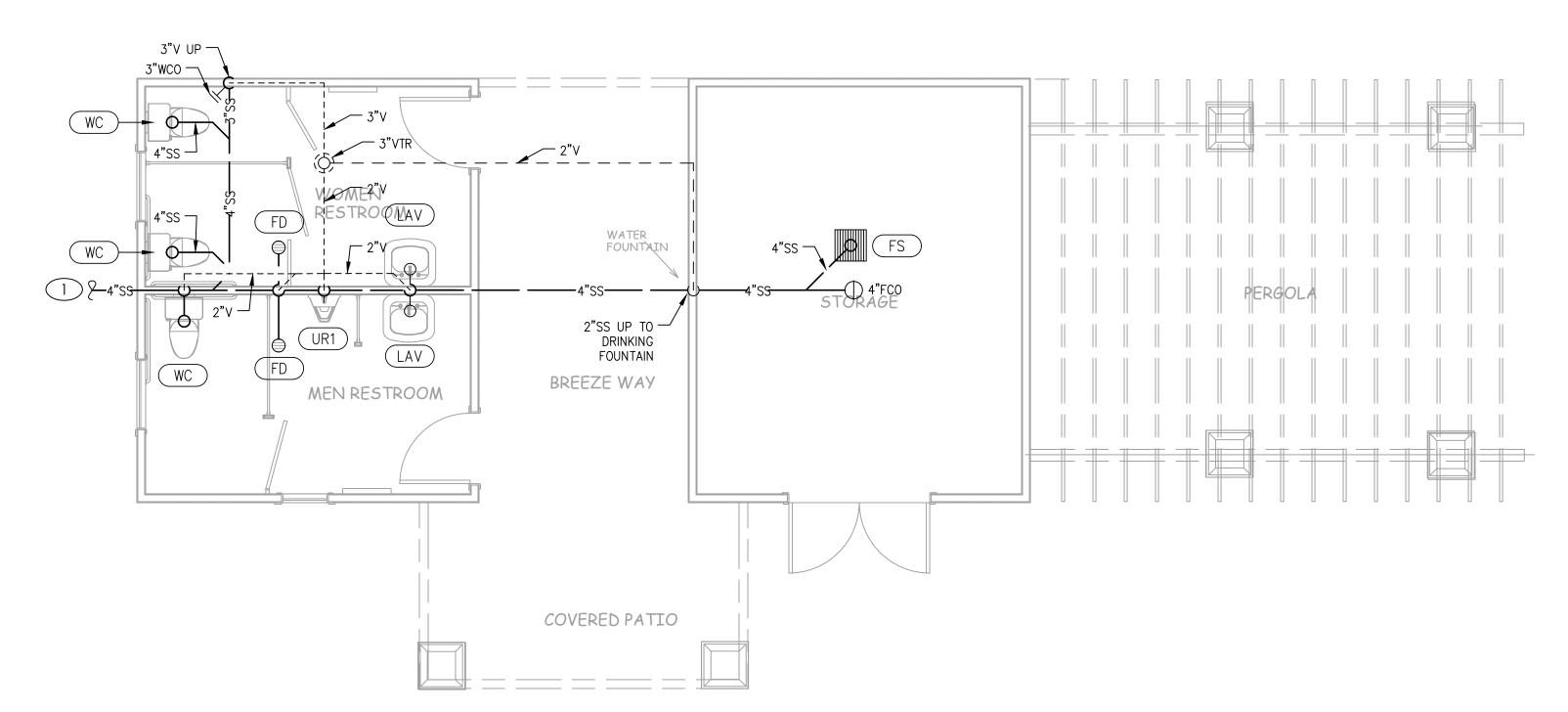
POINT OF USE WATER HEATER. SET HW SUPPLY TEMP SET TO 110F.

POINT OF USE WATER HEATER. SET HW SUPPLY TEMP SET TO 110F.



# **# KEYED PLAN NOTES**

- 1. 4" SANITARY TO UTILITY SERVICE. CONTRACTOR SHALL WORK WITH LOCAL WASTE WATER AUTHORITY FOR INSTALLATION OF A NEW SEWER LINE CONNECTING INTO THE SEWER MAIN FOR A COMPLETE INSTALLATION. REFER TO CIVIL PLANS FOR CONTINUATION. COORDINATE INVERT ELEVATION WITH SITE CIVIL CONTRACTOR PRIOR TO START OF WORK.
- 2. 1" DOMESTIC COLD WATER TO UTILITY SERVICE. CONTRACTOR SHALL WORK WITH THE WATER COMPANY FOR THE INSTALLATION OF A NEW WATER MAIN ENTRANCE, INCLUDING TAP, METER, METER PIT, PIPING, ETC. FOR A COMPLETE INSTALLATION. REFER TO CIVIL PLANS FOR CONTINUATION.
- 3. 1"CW VALVED AND CAPPED FOR FUTURE USE BY POOL EQUIPMENT.
- 4. 1/2"CW TO WATER CLOSET.
- 5. 1/2" CW DOWN IN WALL. PROVIDE 1/2"CW TO LAV AND 1/2"CW TO INSTANTANEOUS WATER HEATER UNDER SINK. CONTINUE WITH 1/2"HW TO LAV. SET HW SUPPLY TEMPERATURE TO 110°F.
- 6. 1/2" CW TO DRINKING FOUNTAIN.
- 7. COORDINATE PLACEMENT OF RPZ WITH POOL CONSULTANT PRIOR TO INSTALLATION. ALSO COORDINATE WITH ELECTRICAL CONTRACTOR. DO NOT ROUTE PIPING ABOVE OR WITHIN WORKING SPACE OF ELECTRICAL PANEL.
- 8. 3/4CW DOWN TO URINAL.

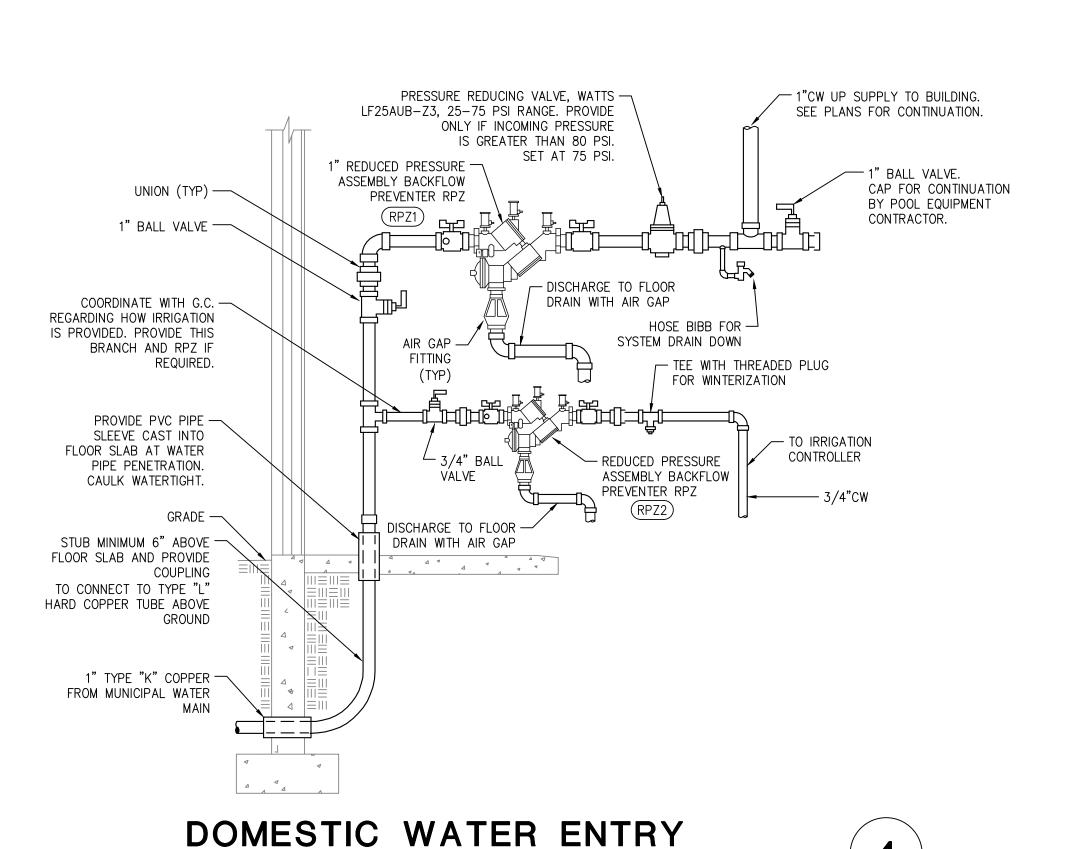


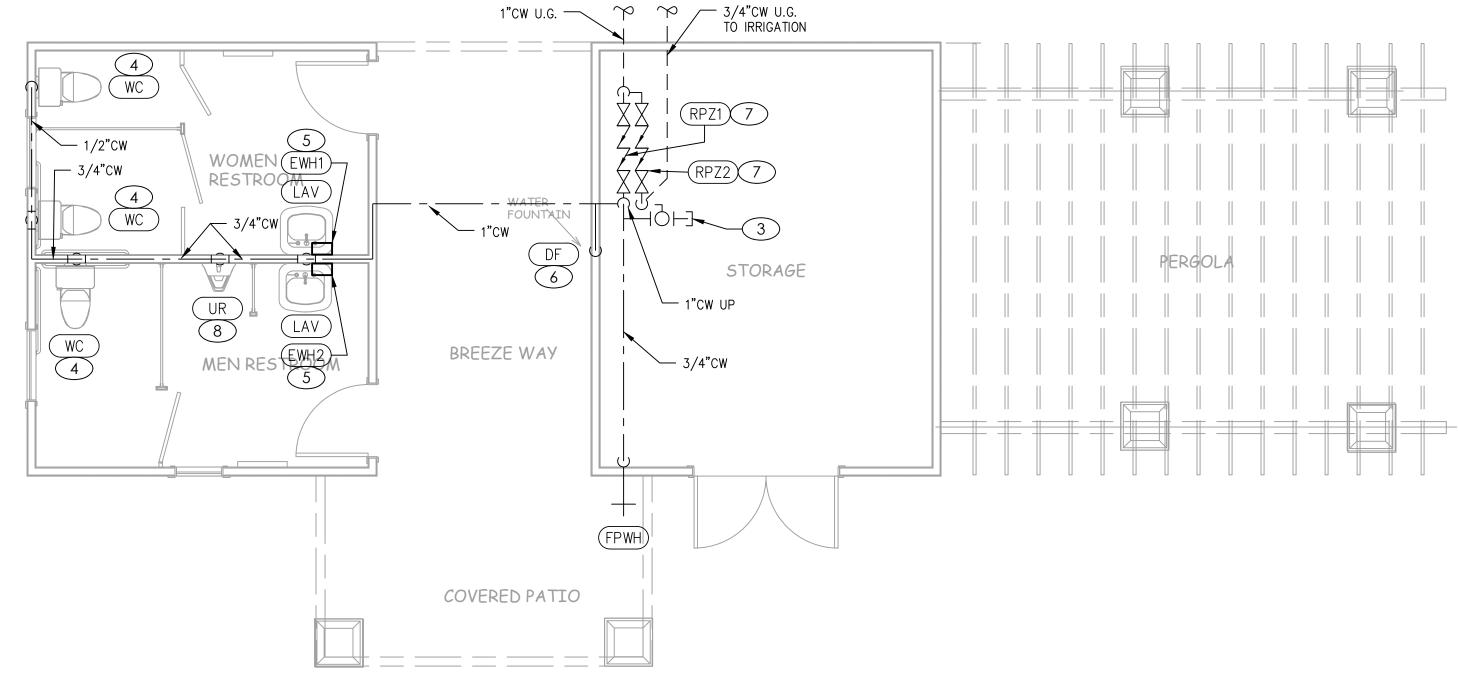
WASTE & VENT PLAN

 $\frac{-}{\text{SCALE: } 1/4" = 1'-0"}$ 

WATER PLAN

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





DATE: 05.20.2022

JOB NO.: 22-133

SHEET:

MP1.2

MMIT

SU

REVISIONS: DATE / DESCRIPTION

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PLUMBING PLANS

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SHEET TITLE:

ISSUED:

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# **ELECTRICAL SPECIFICATIONS**

# PART I - GENERAL

### A. CONDITIONS

- FURNISH AND INSTALL A COMPLETELY WIRED AND OPERATIONAL ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING BUT NOT LIMITED TO, THESE MAJOR ITEMS. A. LIGHTING FIXTURES AS INDICATED AND SPECIFIED ON THE PLANS. B. ELECTRICAL PANELS, SERVICE, CONDUIT, WIRING, ETC., FOR ALL OUTLETS AND EQUIPMENT.
- OBTAIN AND REVIEW ALL OTHER DRAWINGS INCLUDING REFLECTED CEILING PLAN, INTERIOR AND EXTERIOR ELEVATIONS, FURNITURE PLANS AND ALL MILL WORK DRAWINGS. COORDINATE INSTALLATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT PRIOR TO ROUGH-IN.
- OBTAIN SUBMITTAL AND SHOP DRAWINGS FROM OTHER TRADES AND EQUIPMENT TO COORDINATE INSTALLATION ACCORDINGLY.

C. TELEPHONE, TELEVISION, AND FIRE ALARM. OUTLETS AND CONDUIT AS INDICATED.

- 4. INSTALLATION SHALL COMPLY WITH ALL CURRENT APPLICABLE CODES AND GOVERNING AGENCIES HAVING
- FIRE ALARM SYSTEM, IF REQUIRED PER IBC, SHALL BE DESIGN-BUILD BY OWNER'S/GC'S FIRE ALARM CONTRACTOR. DESIGN SHALL BE IN ACCORDANCE WITH NFPA 72. FIRE ALARM CONTRACTOR SHALL SUBMIT STAMPED DRAWINGS TO AHJ FOR REVIEW AND APPROVAL. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR TESTING AND VERIFYING THAT THE AUDIBILITY OF THE FIRE ALARM SYSTEM MEETS A MINIMUM OF 15 DBA ABOVE AMBIENT NOISE LEVELS. ADD HORNS WHERE REQUIRED TO MAINTAIN MINIMUM
- PROVIDE FIRE STOP ON ALL PIPING THAT PENETRATES RATED WALLS. METHOD OF FIRE STOP SHALL MEET WALL RATING. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED WALLS. THIS CONTRACTOR SHALL PROVIDE FIRE RATED ENCLOSURES AROUND ALL ROUGH-IN BOXES, PANELS, ETC. THAT ARE LOCATED IN FIRE RATED WALLS AND SHALL FIRE CAULK ALL OPENINGS IN RATED ASSEMBLIES.

# B. RELATED WORK BY OTHERS

- THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, TRENCH, AND BACKFILL FOR ELECTRICAL SERVICE ENTRANCE FROM THE MAIN SERVICE TO UTILITY POINT OF ELECTRICAL SERVICE. ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ELECTRICAL SERVICE ENTRANCE WITH
- SERVING UTILITY COMPANY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, TRENCH, AND BACKFILL FOR PRIMARY PHONE AND CATV SERVICE FROM THE TELEPHONE TERMINAL BOARD OR CABINET TO THE PHONE COMPANY AND CATV COMPANY POINT OF SERVICE COORDINATE WITH LOCAL UTILITY COMPANIES.

# CODES, REGULATIONS, AND STANDARDS

- THE INSTALLATION SHALL COMPLY WITH APPLICABLE LOCAL AND STATE CODES AND ORDINANCES, WITH THE REGULATIONS OF THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AND WITH THE REQUIREMENTS OF THE POWER, TELEPHONE, AND CATV COMPANIES FURNISHING SERVICES TO THIS
- INSTALLATION. THE LATEST EDITIONS OF THE FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS, AND CODES ARE MINIMUM REQUIREMENTS:
  - A. THE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION STANDARDS. B. THE NATIONAL ELECTRICAL CODE, INCLUDING LOCAL AMENDMENTS.
  - C. UNDERWRITER LABORATORIES INCORPORATED STANDARDS. D. AMERICAN NATIONAL STANDARDS INSTITUTE. E. INTERNATIONAL BUILDING CODE.

# D. INSPECTION OF SITE

- PRIOR TO SUBMITTING A BID FOR ELECTRICAL WORK, THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED CONSTRUCTION AND SHALL THOROUGHLY ACQUAINT HIMSELF WITH EXISTING UTILITIES, AND WORKING CONDITIONS TO BE ENCOUNTERED, ETC. ALLOWANCE WILL NOT BE MADE FOR NONCOMPLIANCE
- WITH THIS CONDITION AFTER BIDDING ELECTRICAL INSTALLATION SHALL MEET THE EXISTING CONDITIONS.

# E. STORAGE AND HANDLING OF MATERIAL

- DELIVER MATERIALS AND EQUIPMENT TO THE PROJECT IN THE MANUFACTURER'S ORIGINAL, UNOPENED, LABELED CONTAINERS. PROTECT AGAINST MOISTURE, TAMPERING, OR DAMAGE FROM IMPROPER HANDLING OR STORAGE. CONTRACTOR SHALL PROTECT AND BE RESPONSIBLE FOR ANY DAMAGE TO WORK OR MATERIALS UNTIL FINAL ACCEPTANCE BY THE OWNER, AND SHALL MAKE GOOD WITHOUT COST TO THE OWNER, ANY DAMAGE OR LOSS THAT MAY OCCUR DURING THIS PERIOD.
- ARRANGE FOR TIMELY DELIVERY OF MATERIALS AND EQUIPMENT TO THE JOB SITE IN ORDER TO MINIMIZE
- THE LENGTH OF TIME BETWEEN DELIVERY AND INSTALLATION. COVER AND PROTECT ANY MATERIAL WHICH MAY BE AFFECTED BY THE WEATHER WHILE IN TRANSIT OR STORED AT THE PROJECT SITE. ANY MATERIAL FOUND DEFECTIVE OR NOT INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS MAY BE REJECTED BY THE ENGINEER

KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS, OR RUBBISH CAUSED BY EMPLOYEES OR WORK UNDER THIS DIVISION OF THE SPECIFICATIONS. AT THE COMPLETION OF THE WORK REMOVE ALL SURPLUS MATERIALS, TOOLS, ETC., AND LEAVE THE PREMISES BROOM-CLEAN.

# G. EXCAVATION, CUTTING, AND FITTING

- PERFORM ALL EXCAVATION AND BACK FILLING REQUIRED FOR WORK PERFORMED UNDER THIS DIVISION OF THE SPECIFICATIONS. USE EXCAVATED MATERIALS FOR BACKFILL UNLESS OFF SITE MATERIALS ARE DEEMED NECESSARY.
- PERFORM THE EXCAVATION, CUTTING, FITTING, REPAIRING, AND FINISHING OF THE WORK NECESSARY FOR THE INSTALLATION OF THE EQUIPMENT OF THIS SECTION. HOWEVER, NO CUTTING OF THE WORK OF OTHER TRADES OR OF ANY STRUCTURAL MEMBERS SHALL BE DONE WITHOUT THE CONSENT OF THE

- THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT AND LOCATIONS OF THE ELECTRICAL WORK DATA PRESENTED ON THESE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC., TO SUIT FIELD CONDITIONS IS REQUIRED. REVIEW ALL ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS OF CONDITIONS SHOWN. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DISCREPANCIES BETWEEN DIFFERENT PLANS, OR BETWEEN DRAWINGS AND SPECIFICATIONS, OR REGULATIONS AND CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING BEFORE THE DATE OF BID OPENING. IF DISCREPANCIES ARE NOT REPORTED, THE CONTRACTOR SHALL BID THE GREATER QUANTITY OR BETTER QUALITY, AND APPROPRIATE ADJUSTMENTS WILL BE MADE AFTER CONTRACT AWARD. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD MEASURE AND CONFIRM MOUNTING HEIGHTS AND LOCATION OF ELECTRICAL EQUIPMENT WITH RESPECT TO COUNTERS, RADIATION, ETC. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS, USE ACTUAL BUILDING DIMENSIONS.
- COOPERATION WITH OTHER CONTRACTORS
- COOPERATE WITH THE OTHER TRADES SO THAT THE INSTALLATION OF THE ELECTRICAL OUTLETS AND EQUIPMENT WILL BE PROPERLY COORDINATED. CONDUIT, LIGHTING FIXTURES, AND OTHER EQUIPMENT LOCATIONS SHALL BE VERIFIED WITH OTHER TRADES TO AVOID CONFLICT WITH THE PIPING, DUCTWORK, STEEL, BEAMS, OR OTHER OBSTRUCTIONS.
- CAREFULLY VERIFY THE LOCATIONS OF THE OUTLET BOXES AND DETERMINE THAT THEY HAVE NOT BEEN DISTURBED DURING THE INSTALLATION OF MATERIALS OF OTHER TRADES.
- COORDINATE THE LOCATION OF THE TRENCHES AND CONDUITS FOR ELECTRICAL AND TELEPHONE UTILITY SERVICES WITH THE GENERAL CONTRACTOR.
- COORDINATE HVAC AND PLUMBING EQUIPMENT CONNECTION REQUIREMENTS WITH HVAC AND PLUMBING
- CONTRACTORS.
- THE ELECTRICAL CONTRACTOR SHALL MAINTAIN A SET OF DRAWINGS AT THE JOB SITE FOR THE EXCLUSIVE PURPOSE OF MAINTAINING A RECORD OF ALL WORK INSTALLED AND TO SHOW ANY DEVIATIONS FROM THE WORK INDICATED ON THE DRAWINGS.
- AT THE COMPLETION OF THE PROJECT, ONE SET OF REPRODUCIBLE DRAWINGS, SHOWING ALL RECORD CONDITIONS, SHALL BE DELIVERED TO THE OWNER FOR ACCEPTANCE PRIOR TO FINAL PAYMENT.

# PART II - PRODUCTS AND EXECUTION

ALL MATERIALS SHALL BE NEW AND OF QUALITY AS SPECIFIED ON THE PLANS OR SPECIFICATIONS AND MUST CARRY THE UNDERWRITER'S LABORATORIES APPROVAL COVERING THE PURPOSE FOR WHICH THEY ARE USED, IN ADDITION TO MEETING ALL REQUIREMENTS OF THE CURRENT APPLICABLE CODES AND REGULATIONS.

# B. SHOP DRAWINGS AND APPROVALS

- THE ITEMS SPECIFIED HEREIN AND ON DRAWINGS ARE USED AS A STANDARD OF QUALITY. ANY MATERIALS OF EQUAL QUALITY AND AESTHETIC VALUE WILL BE GIVEN CONSIDERATION AS A SUBSTITUTE FOR THE MATERIALS SPECIFIED. NO APPROVAL WILL BE GIVEN TO A SPECIFIC CATALOG NUMBER, MODEL, OR TYPE OF EQUIPMENT, PRIOR TO BIDDING. AFTER BIDDING, THE DECISION OF THE ARCHITECT AND/OR ENGINEER DETERMINING EQUAL MATERIALS WILL BE FINAL
- THE CONTRACTOR SHALL SUBMIT SEVEN (7) IDENTICAL BOUND SETS OF SHOP DRAWINGS ON THE FOLLOWING ITEMS: A. LIGHTING FIXTURE CUTS AND PERFORMANCE DATA.
- B. OUTLINE DRAWINGS AND DATA SHEETS OF EACH PANELBOARD, LOAD CENTERS, AND DISTRIBUTION PANELS.
- C. OUTLINE DRAWINGS OF ALL SWITCH GEAR COMPONENTS. ). WIRING DEVICES AND COVERPLATES.
- E. ALL CIRCUIT BREAKERS INSTALLED IN PANELBOARDS, LOAD CENTERS, AND DISTRIBUTION PANELS. SUBMIT ITEMS AT ONE TIME IN A NEAT AND ORDERLY MANNER WITHIN 15 DAYS OF AWARD OF CONTRACT. PARTIAL SUBMITTALS WILL NOT BE ACCEPTABLE.

- GROUNDING SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 250. ALL EXPOSED NONCURRENT CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, METALLIC RACEWAY SYSTEMS, METALLIC CABLE ARMOR, GROUNDING CONDUCTOR OF NONMETALLIC SHEATHED CABLES, GROUNDING CONDUCTOR IN NONMETALLIC RACEWAYS, AND GROUNDED CONDUCTORS OF THE WIRING SYSTEM SHALL BE GROUNDED.
- GROUNDING CONDUCTOR (NEUTRAL) OF THE WIRING SYSTEM SHALL BE CONNECTED TO THE SYSTEM GROUNDING CONDUCTOR AT A SINGLE PLACE IN EACH SYSTEM BY REMOVABLE BONDING JUMPERS, SIZED ACCORDING TO THE APPLICABLE PROVISIONS OF THE NATIONAL ELECTRICAL CODE. THE GROUNDED CONDUCTOR (NEUTRAL) TO THE GROUNDING CONDUCTOR CONNECTION SHALL BE LOCATED IN THE ENCLOSURE FOR THE SYSTEM'S OVERCURRENT PROTECTION OR WHERE OTHERWISE INDICATED ON THE
- PLANS OR SPECIFICATIONS. A GROUND BUS SEPARATE FROM THE NEUTRAL BUS SHALL BE PROVIDED IN ALL DISTRIBUTION PANELS AND PANELBOARDS. PROPER TORQUE ON GROUND BUS SHALL BE VERIFIED, PER MANUFACTURER'S RECOMMENDATIONS, PRIOR TO ENERGIZING EQUIPMENT.
- GROUND BUSES AND NEUTRAL BUSES IN ALL DISTRIBUTION PANELS, LOAD CENTERS, PANELBOARDS, AND THOSE PROVIDED IN ANY EQUIPMENT SHALL BE ISOLATED EXCEPT WHERE REQUIRED TO BE CONNECTED AS SPECIFIED ABOVE FOR THE SERVICE ENTRANCE
- WHEN INDICATED ON THE DRAWINGS, EQUIPMENT GROUNDING CONDUCTORS SHALL BE EXTENDED FROM THE GROUND BUS IN THE DISTRIBUTION EQUIPMENT TO THE RECEPTACLE, FIXTURE OR DEVICE LUGS WHERE THEY ARE PROVIDED. WHERE LUGS ARE NOT PROVIDED, EQUIPMENT GROUNDING CONDUCTORS SHALL BE CONNECTED TO EQUIPMENT ENCLOSURES. THE CONNECTIONS SHALL BE ARRANGED SUCH THAT REMOVAL OF THE RECEPTACLE, EQUIPMENT GROUND CONDUCTORS, OR GROUND JUMPERS FROM GROUND BUSING SHALL NOT AFFECT THE GROUND SYSTEM.
- RACEWAYS MAY NOT BE USED AS A GROUNDING CONDUCTOR FOR POWER AND LIGHTING CIRCUITS. ALL CONDUIT SHALL HAVE SEPARATE CODE SIZED GREEN GROUND WIRE INSTALLED IN THE CONDUIT TO INSURE A CONTINUOUS GROUNDING PATH.
- IN INACCESSIBLE LOCATIONS, MAKE CONNECTIONS BY EXOTHERMIC WELD PROCESS. IN ACCESSIBLE LOCATIONS, CONNECTIONS SHALL BE MADE WITH BOLTED THROUGH, APPROVED

- CONDUCTOR SIZES SHOWN ON THE DRAWINGS ARE BASED ON COPPER WIRE. UNLESS OTHERWISE SPECIFIED, ALL WIRE SHALL BE TYPE XHHW OR SE FOR FEEDERS OR BRANCH CIRCUITS LARGER THAN 4 AWG, TYPE THHN/THWN INSULATION FOR FEEDERS AND BRANCH CIRCUITS 4 AWG AND SMALLER. ALL BRANCH CIRCUIT WIRING SHALL BE COPPER.
- ALUMINUM CONDUCTORS MAY BE UTILIZED FOR SERVICE ENTRANCE AND PANEL FEEDERS. CONDUCTORS SHALL BE ALUMINUM ALLOW AA-8000 SERIES. THE WIRES SHALL BE MARKED WITH COLOR TO SIMPLIFY CIRCUIT IDENTIFICATION. UNLESS OTHERWISE REQUIRED BY LOCAL ORDINANCES GROUND WIRES SHALL BE GREEN, NEUTRAL WIRES SHALL BE
- 120V-WHITE, AND LIVE WIRES 208Y/120V AND 120/240 SHALL BE BLACK (PHASE A), RED (PHASE B), AND BLUE (PHASE C). CIRCUIT SHALL BE LABELED IN EACH J-BOX. ALL CONDUCTORS SHALL BE RATED 600 VOLT.
- SPLICES IN EXTERIOR PULL BOXES AND MANHOLES SHALL BE WEATHERPROOF USING "SCOTCHCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS WITH "DUCTSEAL" OR APPROVED EQUAL.
- PROVIDE SOLID CONDUCTOR FOR 12 AWG AND SMALLER. ALL WIRING WITHIN RESIDENTIAL UNITS ONLY MAY BE TYPE NM CABLE.

SOLDERLESS BRONZE GROUNDING DEVICES.

- NO WIRE SHALL BE INSTALLED IN THE CONDUIT SYSTEM UNTIL THE CONDUIT SYSTEM IS COMPLETE. USE MINERALAC NO. 100 OR EQUIVALENT AS A LUBRICANT TO FACILITATE THE INSTALLATION OF THE
- CONDUCTORS IN THE CONDUIT SYSTEM. MC CABLE WITH COPPER CONDUCTORS AND GROUND WIRE MAY BE USED WHERE PERMITTED.

# E. CONDUIT

- ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC CONDUIT EXCEPT AS PERMITTED IN OTHER SECTIONS. RGS. WITH A 20 MIL PVC COATING WILL BE USED WHEN IN CONTACT WITH EARTH. IMC MAY BE USED IN INDOOR LOCATIONS NOT IN CONTACT WITH THE EARTH. EMT MAY BE USED IN INDOOR LOCATIONS NOT IN CONTACT WITH EARTH, NOT IN CONCRETE SLABS OR WALLS AND NOT SUBJECT TO DAMAGE. PVC MAY BE USED IN OR BELOW CONCRETE AND DIRECT BURIED IN EARTH. FLEXIBLE STEEL CONDUIT SHALL BE USED FOR INDOOR FINAL CONNECTIONS TO EQUIPMENT IN LENGTHS NOT TO EXCEED 72". LIQUID-TIGHT FLEXIBLE STEEL CONDUIT SHALL BE FOR OUTDOOR FINAL CONNECTIONS TO EQUIPMENT NOT TO EXCEED 48".
- WHERE CONDUIT ENTERS OUTLET BOXES, FIXTURES OR CABINETS, FIRMLY FASTEN WITH STEEL SET SCREW, COMPRESSION CONNECTORS, OR DOUBLE LOCKNUTS FOR GRC. ALL CONNECTIONS SHALL HAVE BUSHINGS OR INSULATED THROAT CONNECTORS. FIRMLY FASTEN CONDUIT TO THE BUILDING CONSTRUCTION. RUN EXPOSED CONDUIT PARALLEL TO THE BUILDING LINES, SUPPORTED BY APPROPRIATE HANGERS (UNISTRUT, T & B OR APPLETON, OR EQUAL).
- COVER METALLIC CONDUIT IN CONTACT WITH EARTH WITH POLYETHYLENE TAPED SPIRAL WRAPPED, 1/2 LAPPED TO PROVIDE 20 MIL. THICKNESS. TAPE SHALL BE SCOTCH NO. 50 TAPE. CONDUIT AND DUCTS NOT UNDER BUILDINGS AND FEEDER DUCTS SHALL BE INSTALLED PER N.E.C. 300-5. MAKE JOINTS WITH COMPOUND TO BE WATERTIGHT. SCHEDULE 40 PVC CONDUIT SHALL BE PERMITTED UNDERGROUND WITH PROPER FITTINGS, ALL UL
- APPROVED AND CEMENTED JOINTS. PENETRATIONS THROUGH FLOOR SLABS AND BENDS GREATER THAN 22° SHALL BE WRAPPED RIGID GALVANIZED STEEL ELBOWS. FITTINGS AND CONDUIT BODIES SHALL BE STEEL. DIECAST FITTINGS ARE NOT ACCEPTABLE.
- CONDUIT SIZES SHALL BE AS REQUIRED BY CODE AND AS INDICATED OR SPECIFIED. ALL EMPTY CONDUIT SYSTEMS SHALL HAVE A 200 LB. TEST NYLON PULL STRING TO FACILITATE
- INSTALLATION OF FUTURE WIRE. WIRING, CONDUITS, AND OUTLETS SHALL BE CONCEALED WITH THE BUILDING STRUCTURE, EXCEPT THAT CERTAIN MOTOR AND LIGHTING FEEDER CONDUITS MAY BE RUN EXPOSED IN CERTAIN AREAS AS INDICATED ON THE DRAWINGS.
- CONDUIT PENETRATION THROUGH ROOF SHALL HAVE ROOF FLASHING WITH CAULK TYPE COUNTER
- FLASHING SLEEVE. INSTALLATION SHALL BE WATERTIGHT. 10. CONDUITS SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO THE STRUCTURE.

# F. OUTLET, PULL, AND JUNCTION BOXES

- EACH SWITCH, LIGHT. RECEPTACLE OR OTHER OUTLET, INSTALLED IN RESIDENTIAL UNITS, SHALL BE PROVIDED WITH A CODE SIZED, PLASTIC OUTLET BOX. JUNCTION AND PULL BOXES SHALL BE CODE SIZED, PLASTIC OR METAL OUTLET BOX. ALL OTHER OUTLET BOXES SHALL BE STEEL
- BOXES INSTALLED IN POURED CEMENT FLOORS SHALL BE FLUSH TYPE CAST IRON OR STEEL WITH WATERTIGHT GASKETED COVERS. WHERE BOXES ARE INSTALLED IN FLOORS WITH TILE OR CARPET FLOOR COVERING, COVERS SHALL BE OF THE RECESSED TYPE TO ACCOMMODATE THE FLOOR COVERING.
- BOXES INSTALLED FOR THE ALARM, COMPUTER, AND SECURITY SYSTEM SHALL BE PROVIDED WITH APPROPRIATE COVER PLATES. BOXES FOR TELEPHONE, COMPUTER, T.V., FIRE ALARM, SECURITY, AND SIMILAR SYSTEMS SHALL BE MINIMUM 2-1/8" DEEP.

# **G WIRING DEVICES**

- WALL SWITCHES SHALL BE SPECIFICATION GRADE AC SILENT TYPE SWITCHES, 20A 120/277 VOLT. RECEPTACLES SHALL BE SPECIFICATION GRADE, DUPLEX TYPE. NEMA5-20R, 20 AMPERE, 120VOLT GROUNDED TYPE. SPECIAL APPLICATION RECEPTACLES SHALL BE INDICATED ON PLANS. MOUNT WITH THE
- GROUND DOWN. 3. DEVICE PLATES SHALL BE EQUAL TO SIERRA SMOOTH-LINE PLASTIC WALL PLATES. COLOR SHALL BE
- WHITE. UNLESS OTHERWISE NOTED. RECEPTACLES IN OUTDOOR AND WET LOCATIONS SHALL BE INSTALLED WITH A HINGED OUTLET COVER/ENCLOSURE CLEARLY MARKED AND U.L. LISTED SUITABLE FOR WET LOCATIONS WHILE IN USE, EQUAL TO TAYMAC SPECIFICATION GRADE.

# H. SERVICE ENTRANCE SECTION

- THE SERVICE ENTRANCE EQUIPMENT SHALL BE AS INDICATED ON THE DRAWINGS. EQUIPMENT SHALL CARRY THE U.L. LABEL AND SHALL CONFORM TO THE POWER COMPANY REGULATIONS.
- SERVICE ENTRANCE EQUIPMENT SHALL BE PROVIDED WITH A FULLY RATED COPPER OR ALUMINUM BUS. HORIZONTALLY TAPERED BUSSING SHALL NOT BE ALLOWED.

- DISTRIBUTION PANELS SHALL BE PROVIDED WITH FULLY RATED COPPER OR ALUMINUM BUS. HORIZONTAL APERED BUSSING SHALL NOT BE ALLOWED ACCEPTABLE MANUFACTURERS - CUTLER HAMMER, SEIMENS, SQUARE D OR GENERAL ELECTRIC
- FACTORY ASSEMBLED DEAD FRONT, METAL ENCLOSED, AND SELF-SUPPORTING SWITCH BOARD ASSEMBLY CONFORMING T NEMA PB 2 AND UL 891, AND COMPLETE FROM INCOMING LINE TERMINALS TO LOAD SIDE TERMINATIONS.
- LINE AND LOAD TERMINATIONS: ACCESSIBLE FROM FRONT ONLY OF THE SWITCH BOARD. SUITABLE FOR
- CONDUCTOR MATERIALS AND NUMBER OF CONDUCTORS USED. BUS CONNECTIONS: BOLTED. ACCESSIBLE FROM FRONT FOR MAINTENANCE. PROVIDE BELLEVILLE WASHERS
- FOR PROPERLY TORQUE ALL CONNECTIONS PROVIDE FULLY-RATED NEUTRAL BUS AND FULLY RATED GROUND BUS MATCHING MATERIAL USED FOR
- MAIN BUS. FUTURE PROVISIONS: FULLY EQUIP SPACES FOR FUTURE DEVICES WITH BUSSING AND BUS CONNECTIONS SUITABLY INSULATED AND BRACED FOR SHORT CIRCUIT CURRENTS. CONTINUOUS CURRENT RATING AS
- INDICATED ON DRAWINGS. 8. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE.

# . PANEL BOARDS

. DISTRIBUTION PANELS

- CIRCUIT BREAKER TYPE AS INDICATED ON DRAWINGS. UNLESS INDICATED OTHERWISE, ALL PANELS SHALL HAVE PANEL HAVE PANEL BOARD TYPE CONSTRUCTION WITH BOLT-ON CIRCUIT BREAKERS FOR 30
- 2. MANUFACTURERS SHALL BE GENERAL ELECTRIC, SQUARE D, SEIMENS, CUTLER-HAMMER WITH VOLTAGE,
- SIZES. AND RATINGS AS INDICATED ON DRAWINGS. THE CIRCUIT BREAKERS SHALL BE OPERABLE IN ANY POSITION AND BE REMOVABLE FROM THE FRONT OF THE PANEL BOARD WITHOUT DISTURBING THE ADJACENT UNITS. BRANCH BREAKERS SHALL BE OF SUCH DESIGN THAT COMBINATION OF SINGLE-POLE, DOUBLE-POLE, AND THREE-POLE BREAKERS CAN BE ASSEMBLED ON THE SAME PANEL. EACH BRANCH CIRCUIT SHALL BE CLEARLY NUMBERED. BRANCH AND MAN TERMINALS SHALL BE SOLDERLESS TYPE. HANDLE TIES TO FORM MULTI-POLE BREAKERS NOT

ACCEPTABLE.

- CIRCUIT BREAKER TYPE AS INDICATED ON DRAWINGS. MANUFACTURERS SHALL BE GENERAL ELECTRIC, SQUARE D, SIEMENS, CUTLER-HAMMER/EATON WITH VOLTAGE, SIZES, AND RATINGS AS INDICATED ON
- DRAWINGS. THE CIRCUIT BREAKERS SHALL BE OPERABLE IN ANY POSITION AND BE REMOVABLE FROM THE FRONT O THE PANEL BOARD WITHOUT DISTURBING THE ADJACENT UNITS. BRANCH BREAKERS SHALL BE OF SUCH DESIGN THAT COMBINATION OF SINGLE-POLE AND DOUBLE-POLE BREAKERS CAN BE ASSEMBLED ON THE SAME PANEL. EACH BRANCH CIRCUIT SHALL BE CLEARLY NUMBERED. BRANCH AND MAIN TERMINALS SHALL BE OF THE SOLDERLESS TYPE. HANDLE TIES TO FORM MULTI-POLE BREAKERS NOT ACCEPTABLE.
- A. CIRCUIT BREAKERS SHALL BE PLUG-IN TYPE WIRE TERMINATION FOR PANEL BOARDS AND CIRCUIT BREAKERS SHALL BE LISTED AS SUITABLE FOR 75
- DEGREES C. PROVIDE A TYPEWRITTEN CIRCUIT INDEX BEHIND CLEAR PLASTIC COVER ON INSIDE OF DOOR. INFORMATION SHALL INCLUDE ROOM AND TYPE LOAD SERVED. ALL CIRCUIT BREAKERS SHALL BE
- IDENTIFIED, INCLUDING SPARES. INDEX CARD FRAME SHALL BE METAL, SECURED TO DOOR. 5. PANEL BOARDS/LOAD CENTERS TO BE PROVIDED WITH COPPER BUSSIING ONLY.

1. PROVIDE ALL LIGHTING FIXTURES, WIRED AND CONNECTED. THE DRAWINGS INDICATE THE FIXTURES FOR EACH LOCATION. PROVIDE LAMPS FOR ALL FIXTURES. THE LAMPS SHALL BE BY THE SAME MANUFACTURER. VERIFY CEILING CONSTRUCTION BEFORE ORDERING RECESSED UNITS. PROVIDE PLASTER FRAMES AND HANGERS AS REQUIRED. CEILING CONSTRUCTION, ARCHITECTURAL ACCESSORIES, VOLTAGE, AND BALLASTS TO MEET THE EXISTING CEILING CONDITION.

- FURNISH AND INSTALL TIME SWITCHES, PHOTOCELLS, CONTRACTORS AND FULL LIGHTING CONTROL SYSTEMS AS REQUIRED FOR LIGHTING CONTROLS INDICATED ON THE DRAWINGS. 2. TIME SWITCHES SHALL BE EQUAL TO PARAGON, GENERAL ELECTRIC, TORK, OR INTERMATIC AND SHALL
- HAVE SIZE AND NUMBER OF POLES AS REQUIRED PHOTOCELLS SHALL BE EQUAL TO TORK OR INTERMATIC WITH VOLTAGE AS INDICATED.

# N. TELEPHONE AND CABLE TELEVISION SYSTEMS

- TELEPHONE WALL OUTLETS SHALL CONSIST OF STANDARD BOXES MOUNTED 18" ABOVE THE FLOOR UNLESS OTHERWISE INDICATED. PROVIDE A TERMINAL MOUNTING BOARD FOR THE INCOMING SERVICE
- CABLE TELEVISION OUTLETS SHALL CONSIST OF STANDARD BOXES MOUNTED 18" ABOVE THE FLOOR UNLESS OTHERWISE INDICATED. PROVIDE A TERMINAL MOUNTING BOARD FOR THE INCOMING SERVICE

# O. GUARANTEE

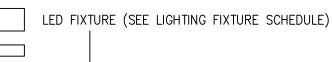
GUARANTEE ALL MATERIAL FURNISHED AND ALL WORKMANSHIP PERFORMED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF WORK. ANY DEFECTS DEVELOPING WITHIN THIS PERIOD, TRACEABLE TO MATERIAL FURNISHED AS A PART OF THIS SECTION OR WORKMANSHIP PERFORMED HEREUNDER. SHALL BE MADE GOOD AT NO EXPENSE TO THE OWNER.

# SYMBOLS LEGEND

NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ETC,

ARE NECESSARILY USED ON THE DRAWINGS.

<u>LIGHTING FIXTURES - SYMBOL/LETTER INDICATES LIGHT FIXTURE AS INDICATED ON FIXTURE SCHEDULE</u>



FIXTURE WITH EMERGENCY BATTERY DRIVER UNIT

- TRACK LIGHT DOWNLIGHT FIXTURE WITH EMERGENCY BATTERY DRIVER UNIT
- WALL MOUNTED FIXTURE WITH EMERGENCY BATTERY DRIVER UNIT
- PENDANT MOUNTED FIXTURE WITH EMERGENCY BATTERY DRIVER UNIT
- O DOWNLIGHT FIXTURE
- OH WALL MOUNTED FIXTURE PENDANT MOUNTED FIXTURE

- SINGLE FACE EXIT SIGN UNIVERSAL MOUNTED SINGLE FACE EXIT SIGN W/ DIRECTIONAL ARROWS -
- UNIVERSAL MTD DOUBLE FACE EXIT SIGN W/ DIRECTIONAL ARROWS -
- DUAL HEADED EMERGENCY UNIT COMBO DUAL HEADED EMERGENCY AND EXIT SIGN UNIT

- SINGLE POLE SWITCH @ +48" UNLESS NOTED
- Sabc SWITCH BANK @ +48" UNLESS NOTED. LOWER CASE
- LETTER INDICATES FIXTURE CONTROLLED S<sub>3</sub> 3-WAY SWITCH @ +48" UNLESS NOTED
- S4 4-WAY SWITCH @ +48" UNLESS NOTED DIMMER SWITCH - SIZE AS REQUIRED @ +48" UNLESS NOTED
- MANUAL MOTOR STARTER WALL SWITCH WITH OCCUPANCY SENSOR. DIGITAL LOW VOLTAGE WALL SWITCH. SWITCH @
- +48" UNLESS NOTED. SLV TWO BUTTON DIGITAL LOW VOLTAGE WALL SWITCH. PROVIDES ON/OFF/0-10V DIMMING. SWITCH
- @ +48" UNLESS NOTED. PROVIDE EXTRA CONTROL CABLES NEEDED TO FIXTURE CONTROLLED.
- LIGHTING CONTROLS CEILING MOUNT OCCUPANCY SENSOR LIGHTING CONTROLS POWER PACK
- PHOTOCELL
- TIMECLOCK

# **POWER DISTRIBUTION**

SWITCHBOARD, MOTOR CONTROL CENTER OR DISTRIBUTION BOARD

- 277/480V, 3 PHASE, 4 WIRE PANELBOARD, UNO
- 120/208V, 3 PHASE, 4 WIRE PANELBOARD, UNO
- 120/240V, 1 PHASE, 3 WIRE PANELBOARD, UNO Т TRANSFORMER

# POWER DEVICES

- SPECIAL HEAVY DUTY RECEPTACLE SIZE AS NOTED.
- @ +18" UNLESS NOTED
- 1/2 SWITCHED RECEPTACLE @ +18" UNLESS NOTED
- FIRE RATED POKE THRU WITH TYPE INDICATED
- FLUSH FLOOR BOX WITH TYPE INDICATED
- → SINGLE RECEPTACLE @ +18" UNLESS NOTED DUPLEX RECEPTACLE @ +18" UNLESS NOTED
- DOUBLE DUPLEX RECEPTACLE @ +18" UNLESS NOTED
- DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP
- GFCI-RATED DUPLEX RECEPTACLE
- ARC FAULT RATED DUPLEX RECEPTACLE TAMPER RESISTANT RATED DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE WITH WEATHERPROOF COVERPLATE

@ 18" UNLESS NOTED

- JUNCTION BOX
- THE DISCONNECT SWITCH SIZE AND TYPE NOTED

# COMBINATION FUSED STARTER DISCONNECT SWITCH FUSE SIZE AS INDICATED, STARTER SIZE '1' <u>AUXILIARY SYSTEMS</u>

MECHANICAL EQUIP. CONNECTION, SEE SCHED. ON MECH. PLAN

DATA OUTLET @ +18" UNLESS NOTED

TELEPHONE OUTLET@ +18" UNLESS NOTED

COMBINATION TELEPHONE/DATA OUTLET @ +18" UNLESS NOTED

AUXILIARY SYSTEM TERMINAL CABINET

- TELEVISION OUTLET @ +60" UNLESS NOTED
- SMOKE DETECTOR
- HEAT DETECTOR
- DUCT SMOKE DETECTOR REMOTE TEST STATION WITH INDICATING LIGHT. MOUNT AT 48" AFF UNO.

# <u>GENERAL</u>

———— CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING

———— CONDUIT RUN BELOW FLOOR OR GRADE HOMERUN TO PANELBOARD, INFORMATION AT ARROWS ARE CIRCUIT NUMBERS AND PANELBOARD FOR TERMINATION, REFER TO ASSOCIATED NOTE FOR BRANCH CIRCUIT CONDUCTOR SIZES.

5 INDICATES 1/2" CONDUIT CONCEALED IN CEILING OR WALL WITH (3) CONDUCTORS. (1) PHASE, (1) NEUTRAL AND (1) GROUND WIRE. ALL ARE #12 AWG UNLESS NOTED OTHERWISE.

(E) OR ETR: DENOTES EXISTING ITEM/EQUIPMENT TO REMAIN



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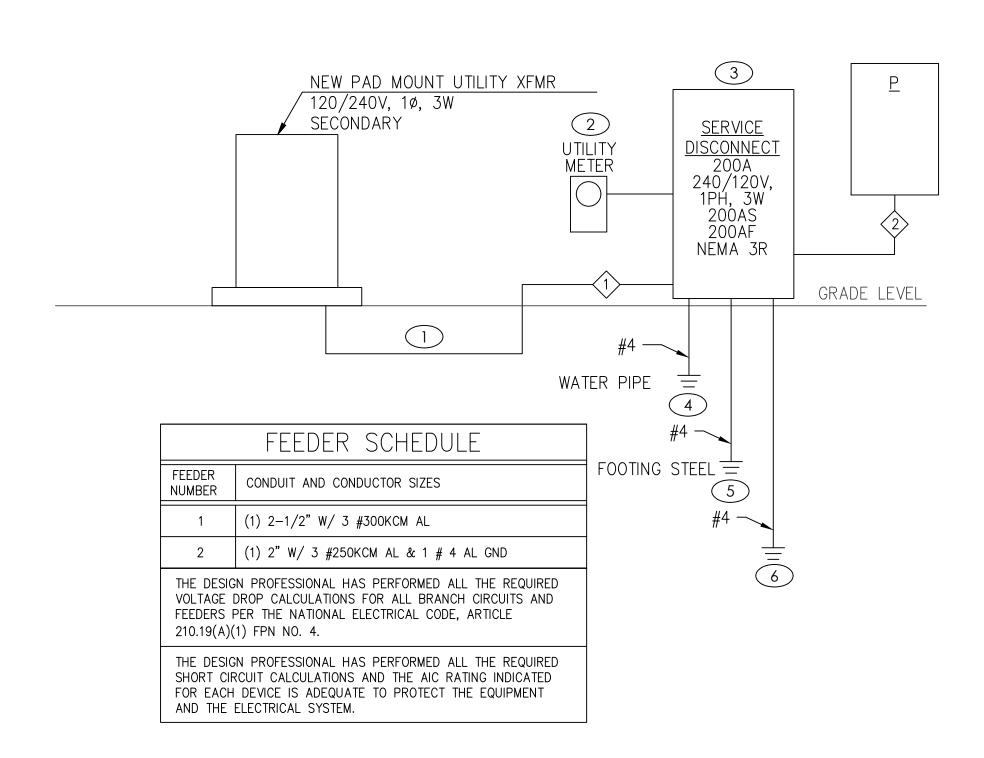
REVISIONS: DATE / DESCRIPTION

ELECTRICAL **SPECIFICATIONS** 

PERMIT

DATE: 05.20.2022 JOB NO.: 22-133 SHEET:

	ELECTRICAL LIGHTING SCHEDULE												
FIXTURE	MANUFACTURER		VOLT	MOUNTING	LAMP TYPE	REMARKS	VOLT						
TYPE	NAME	CATALOG NUMBER	AMPS										
А	LITHONIA	VAP-6000LM-FST-MD-MVOLT-40K-80CRI- VAPSMB-WLF-DL-STSL-MSI102L3VWL	50	SURFACE CEILING	INCLUDED LED 4000K	VANDAL RESISTANT LED 4' DAMP LOCATION STRIP LUMINAIRE	120						
В	LITHONIA	LDN6-30/15-L06-LSS-MVOLT-30K	17.5	RECESSED CEILING	INCLUDED LED 3000K	6" LED RECESSED DOWNLIGHT - WET LOCATION LISTED	120						
W	EXTERIOR SCONCE	OWNER SELECTED	60	WALL SURFACE	INCLUDED LED 3000K	WET LOCATION RATED SCONCE - MAX 60W/FIXTURE	120						
	LITHONIA	WLTU LED	5	SURFACE CEILING	INCLUDED	LED COMBO EXIT SIGN EMERGENCY LUMINAIRE WITH 90 MIN BATT. PACK WET LOCATION	120						
<b>⊘</b>	LITHONIA	ELA LED TWP M12	3	WALL	INCLUDED	OUTDOOR DOUBLE REMOTE HEAD EMERGENCY EGRESS LUMINAIRE	120						



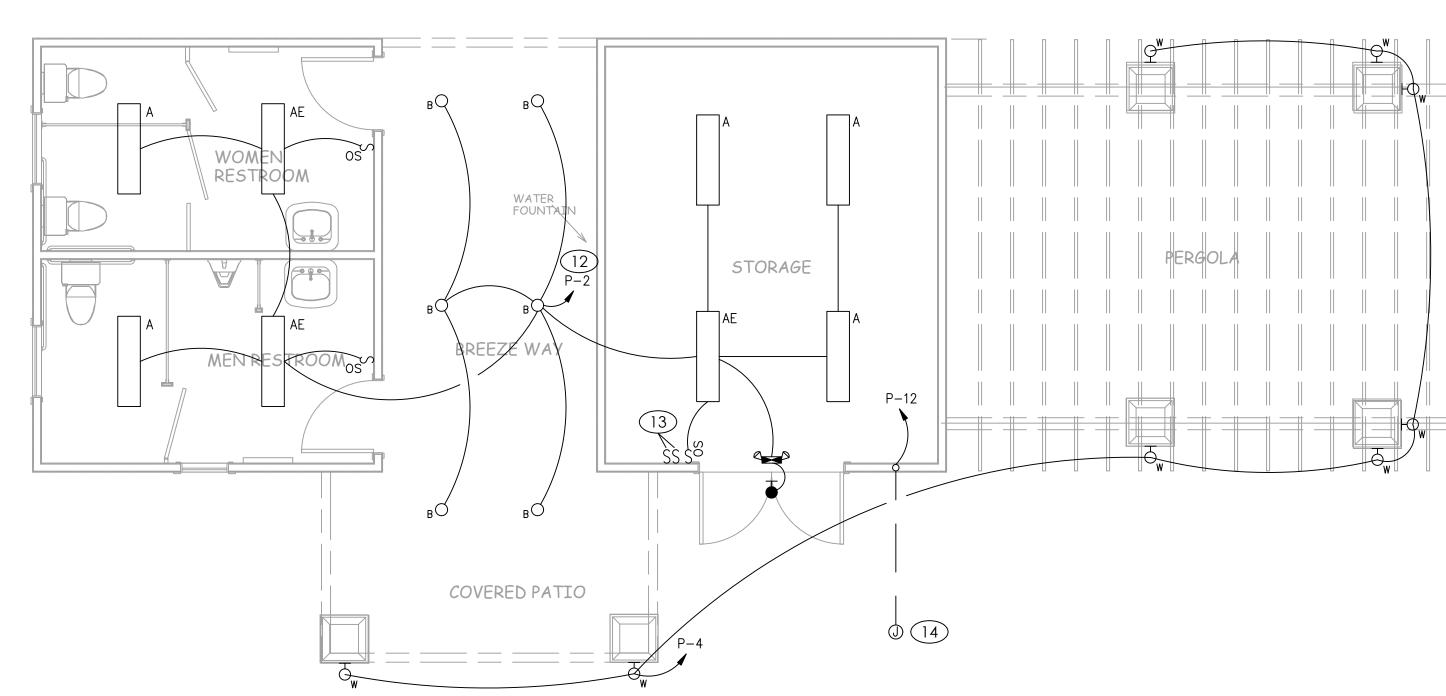
# SINGLE LINE DIAGRAM

SCALE: NO SCALE

PANEL: LOCATION: VOLTAGE: 240/120V 1PH, 3W CIRCUIT CODES: 1=(CONTINUOUS LOAD) 2=(NON-CONTINUOUS LOAD) **EQUIPMENT ROOM** 200 AMPS MAIN: M.L.O 3=(RECEPTACLES) SHEET/ 1 LINE: E1.1 4=(KITCHEN EQUIPMENT) AIC RATING: **MOUNTING: SURFACE** LOAD DESIGNATION LOAD DESIGNATION LOAD PHASES LOAD CB CKT DESCRIPTION INDOOR LIGHTING/EXHAUST FANS 1 20 1 3 2 30 1 EWH-2 **OUTDOOR LIGHTING** 5 3 20 1 RESTROOM/BREEZWAY OUTLETS "GF" RCPT - DRINKING FOUNTAIN 1 20 1 360 730 //////// 370 EQUIPMENT ROOMS OUTLETS
RCPT - PERGOLA STRING LIGHTS PWR - SITE FIXTURE SPACE ///////// 0 **SPACE** SPACE **SPACE** SPACE SPACE SPACE SPACE SPACE **FUTURE POOL PANEL** SPACE / (SHUNT TRIP TYPE BREAKER) TOTAL 4144 3912 CONNECTED KVA 8.1 CONN.KVA (CODE 1) 5.8 "GF" = GFCI TYPE BREAKER CONN.KVA (CODE 2) 0.9 CONN.KVA (CODE 3) 0.0 CONN.KVA (CODE 4) LSMO POOLHOUSE 8.4 JOB NAME: FEEDER DEMAND KVA 35.0 ISSUE DATE: 05.18.22 FEEDER DEMAND AMPS

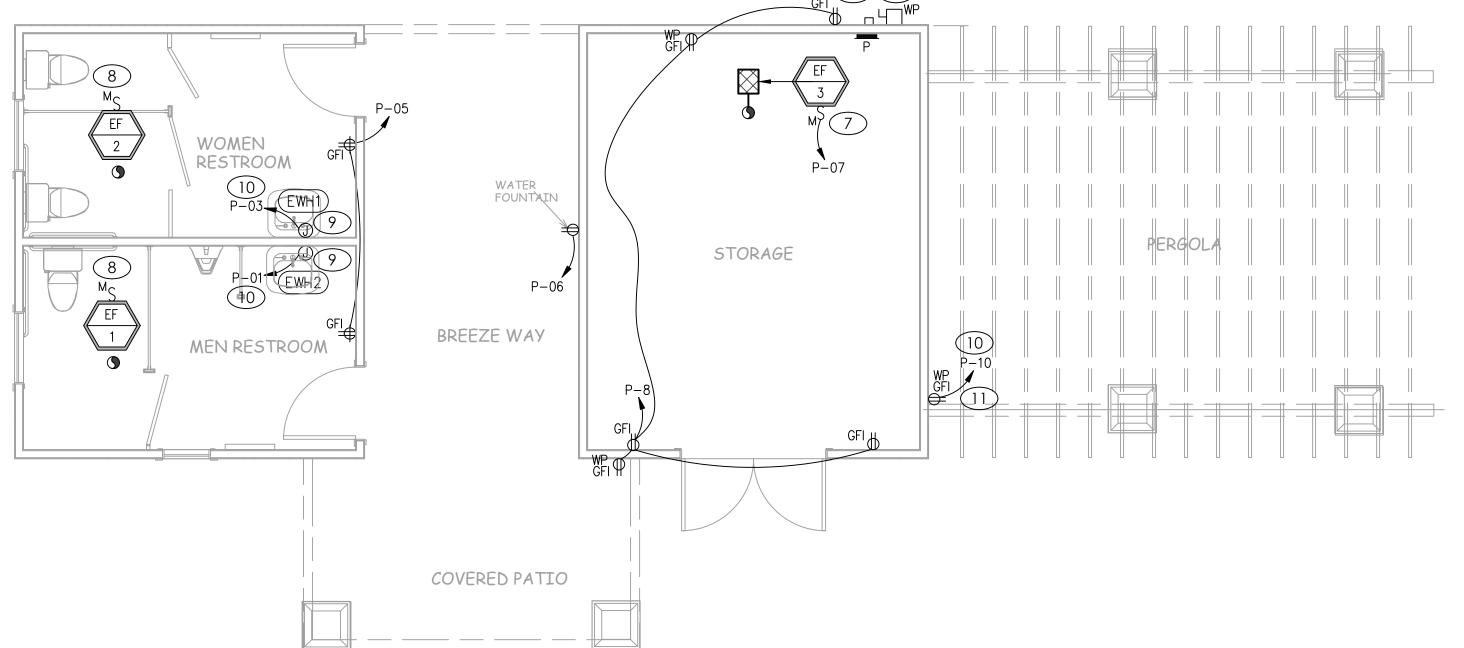
# PANELBOARD SCHEDULES

SCALE: NO SCALE



# ELECTRICAL LIGHTING PLAN





# ELECTRICAL POWER PLAN

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

AL POWER PLAN



# GENERAL NOTES

- A. REFER TO LIGHTING FIXTURE SCHEDULE FOR LIGHT FIXTURE TYPES AND REQUIREMENTS.
- B. CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTING UNITS TO THE INDICATED CIRCUIT WITH A SEPARATE AND UN-SWITCHED CONDUCTOR BYPASSING ALL CONTROLS AND CONTACTORS. REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR PROPER INSTALLATION AND TESTING.
- C. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT COORDINATION AND CONFLICT ISSUES BE RESOLVED PRIOR TO INSTALLATION OF LIGHT
- D. ROUTE ALL EXPOSED, RIGID CONDUIT TIGHT TO STRUCTURE, PARALLEL TO BUILDING LINES AND IN UNISTRUT CABLE/PIPE TRAY WHERE POSSIBLE. COORDINATE CONDUIT ROUTING AND INSTALLATION WITH OTHER TRADES PRIOR TO ROUGH—IN. SUPPORT CONDUIT FROM STRUCTURE NOT ROOF DECK. MAINTAIN 2" MIN SPACING FROM BOTTOM OF ROOF DECK TO PREVENT ROOFING SCREWS FROM PENETRATING CONDUITS.
- E. THROUGH WIRING OF RECESSED LIGHT FIXTURES, IN SUSPENDED CEILINGS, IS NOT PERMITTED. CONNECT EACH LIGHT FIXTURE BY A WHIP TO A JUNCTION BOX. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTH TO ALLOW FOR RELOCATING EACH LIGHT FIXTURE WITHIN A 5-FOOT RADIUS OF ITS INSTALLED LOCATION, BUT NOT EXCEEDING 6 FEET IN UNSUPPORTED LENGTH.
- F. ALL INTERNALLY ILLUMINATED SIGNS SHALL BE PROVIDED WITH AN ACCESSIBLE DISCONNECTION MEANS. VERIFY EACH SIGN IS FURNISHED WITH AN INTEGRAL DISCONNECT SWITCH. PROVIDE WEATHERPROOF DISCONNECT SWITCHES WITHIN SIGHT OF ALL SIGNS AS REQUIRED. MAKE FINAL CONNECTION AS REQUIRED.

# **# KEYED PLAN NOTES**

- 1. PROVIDE NEW CONDUCTORS TO UTILITY SOURCE. VERIFY EXACT LOCATION AND REQUIREMENTS WITH UTILITY PRIOR TO ROUGH-IN.
- 2. PROVIDE NEW UTILITY METER PER UTILITY REQUIREMENTS.
- 3. NEW DISCONNECT PER UTILITY REQUIREMENTS.
- 4. PROVIDE NEW GROUND PER NEC 250.52(A)(1).
- 5. PROVIDE NEW GROUND PER NEC 250.52(A)(2).
- 6. PROVIDE NEW GROUND PER NEC 250.52(A)(3).
- 7. PROVIDE MOTOR RATED SWITCH DESIGNED TO OPERATE CONTINUOUSLY.
- 8. PROVIDE MOTOR RATED SWITCH DESIGNED TO OPERATE CONTINUOUSLY. CONNECT TO LIGHTING CIRCUIT FOR SIMULTANEOUS OPERATION.
- 9. CONNECT TO INSTA-HOT PER MECHANICAL PLANS AND MANUFACTURER REQUIREMENTS.
- 10. (1) 1/2"C W/ 2 #10 & 1 #12 GND.
- 11. MOUNT RECEPTACLE TO PERGOLA STRUCTURE AND ROUTE CONDUIT IN DISCRETE MANNER FOR AVAILABILITY FOR PLUG—IN PERGOLA LIGHTING. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT.
- 12. PROVIDE PHOTOCELL MOUNTED TO ROOF STRUCTURE AND POINTED NORTH. COORDINATE EXACT LOCATION WITH ARCHITECT. ROUTE CIRCUIT THROUGH PHOTOCELL EN ROUTE TO BREAKER TERMINATION.
- 13. NORMALLY-CLOSED OVERRIDE SWITCHES FOR EXTERIOR CANOPY LIGHTING (CKT P-4) AND PLUG-IN CANOPY LIGHTING (CKT P-10). ROUTE CIRCUITS THROUGH RESPECTIVE OVERRIDE SWITCHES EN ROUTE TO BREAKER
- 14. PROVIDE CONDUIT UNDERGROUND TO JUNCTION BOX FOR FUTURE SITE POLE BY OTHERS. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO

JSC ENGINEERS

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POOL HOUSE STRUCTUF LEE'S SUMMIT, MO

REVISIONS: DATE / DESCRIPTION

PERMIT

ELECTRICAL

ISSUED:

PLANS

DATE: 05.20.2022

JOB NO.: **22-133** SHEET:

E1.1

# WHISPERING WOODS POOL 1901 SW. RIVER RUN DR.

# PROJECT INFORMATION

STATE: MISSOURI COUNTY: JACKSON CITY: LEE'S SUMMIT TYPE: NGROUND POOL CONSTRUCTION METHOD: CAST-IN-PLACE SANITATION: CHLORINE HEATHED: NO

### GENERAL NOTES

- ANY CHANGES IN CONSTRUCTION PLANS OR EQUIPMENT MUST BE APPROVED BY THE GOVERNING HEALTH DEPARTMENT, CHANGES MAY REQUIRE ADDITIONAL PLAN CHECK FEES AND RE-SUBMITTAL.
- POOL PLAN APPROVAL DOES NOT AUTHORIZE THE VIOLATION OF ANY LAW, ORDINANCE, OR REGULATION AND FINAL APPROVAL IS SUBJECT TO FIELD INSPECTION.
- ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
- ALL EQUIPMENT AND MATERIALS NOT SHOWN ON SPECIFIED ON THESE PLANS, BUT REQUIRED TO COMPLETE THIS PROJECT, SHALL BE SUPPLIED BY THE POOL CONTRACTOR AS PART OF THIS CONTRACT
- REINFORCING STILL OF ALL AQUATIC FEATURES SHALL BE BONDED WITH #8 COPPER WIRE, TIED BOND TO EACH MECHANICAL SYSTEM AND ALL RAIL ANCHORS AND METAL WITHIN 5 FT OF POOL EDGE
- CRUSHED ROCK BELOW POOL FLOOR TO BE 1/2" CLEAN MINIMUM OF 4" DEPTH
- ALL STEEL TO BE GRADE 40, \*4 BAR AND A MINIMUM OF 12" ON CENTER EACH WALL HORIZONTAL AND VERTICAL, BELOW 6" WATER DEPTH REBAR SHALL BE 6" EACH WALL IN THE WALL
- REINFORCING STEEL TO BE PLACED A MINIMUM OF 2" BELOW EXPOSED FACE OF CONCRETE

# LOCATION MAP



PROJECT LOCATION

## POOL DETA

PERIMETER: 160'-0" SURFACE AREA: 1500-SQFT APPROXIMATE VOLUME: 42200 GALLONS MINIMUM TURN OVER: 6-HOURS MINIMUM FLOW RATE: 116-GPM MAXIMUM FLOW RATE: 60-GPM MINIMUM DEPTH OF POOL: 1'-0" MAXIMUM DEPTH OF POOL: 5'-0"

### GENERAL AREAS

POOL 1500 SF/ POOL DECK 6225 SF/ COVERED CABANA 360 SF/ LAVATORIES 400 SF/ EQUIPMENT ROOM 240 SF/

POOL CLASSIFICATION, CLASS B PUBLIC POOL BATHER LOAD (PER 2018 ISPSC TABLE 403.1):

- WATER SURFACE AREA = 1500 SF
- BATHER LOAD 1500/10 = 150 PERSONS

POOL WATER MAINTAINED BY A LICENSED CPO/AFO OPERATOR.

TEST KIT MUST READ CHLORINE TO 10 ppm

### SHEET INDEX

POOL PLAN EQUIPMENT SCHEDULE FLOW CALCULATIONS POOL PLUMBING LAYOUT DETAILS

DETAILS DETAILS P43 DETAILS

### CODE COMPLIANCE

- ANSI POOL AND SPA STANDARD TO PREVENT SUCTION ENTRAPMENT
- VIRGINIA GRAEME BAKER SAFETY ACT
- LEE'S SUMMIT BUIDING CODE
- BONDING SHALL BE PERFORMED IN ACCORDANCE WITH NEC

POO COVER SHEET

EQUIPMENT ROOM LAYOUT

P5Ø SAFETY PLAN P5.1 SIGN DETAILS

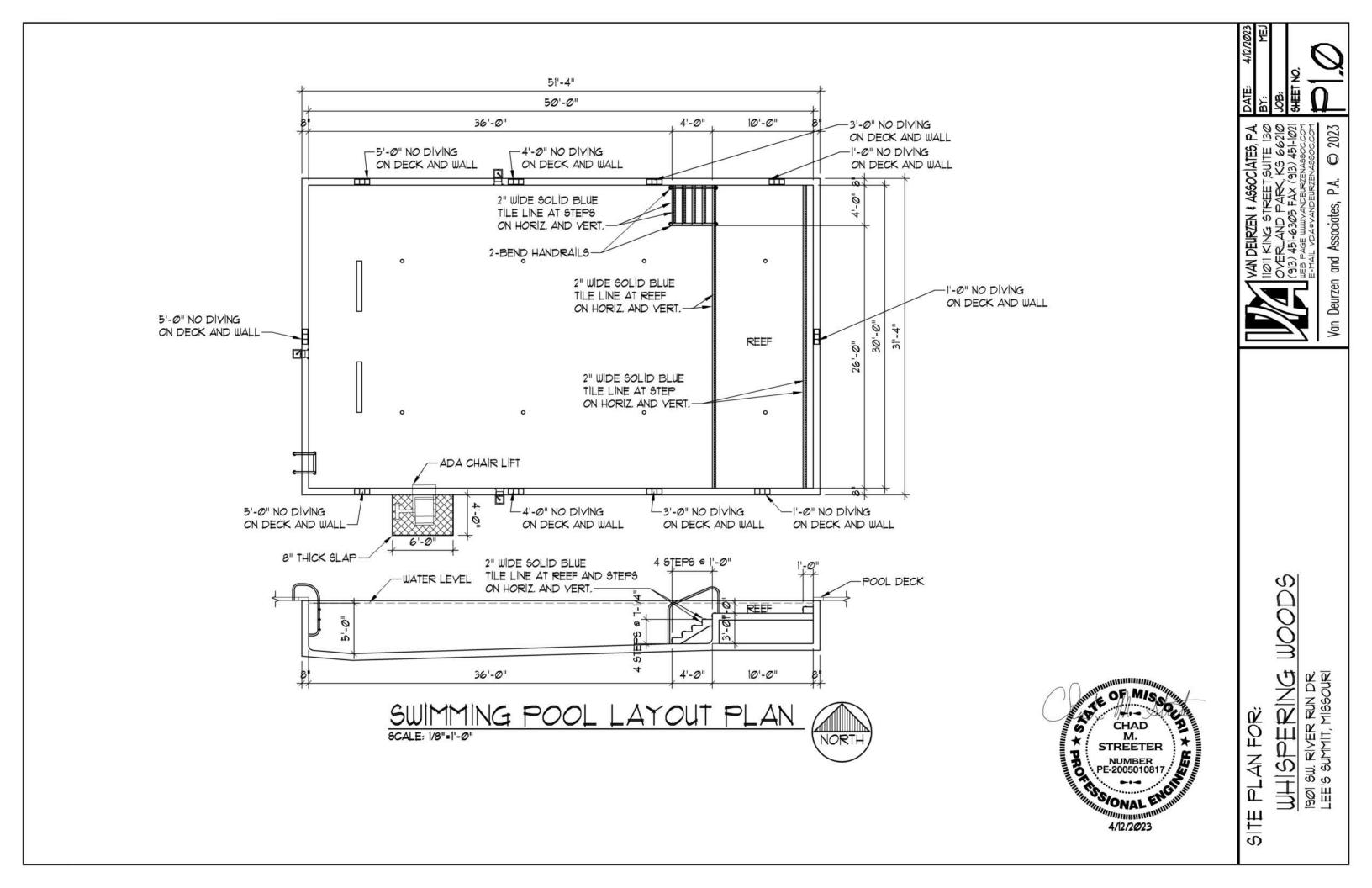


Associates, and Deurzen Man

0

. В В P007 SWIMMING

RUN DR. MISSOURI S 98. J



EQUIPMENT												
EQUIPMENT NAME	MANUFACTURER PART *	WAREHOUSE PART *	QTY.	POWER REQUIREMENTS	HOOP UP RESPONSIBILITY	NOTES						
BADU PRO UVS 4 HP PUMP	Øl5583		Î	11∅/23∅ ∨	POOL CONTRACTOR-PLUMBING ELECTRICIAN-HIGH VOLTAGE	#						
TRITON II SAND FILTER	TR 60 CP		f	NA	POOL CONTRACTOR							
FLOVIS FLOW GAUGE	FY-C		Ť	NA	POOL CONTRACTOR							
SKIMMER	5PIØ82		3	NA	POOL CONTRACTOR							
PENTAIR MICROBRITE LED WHITE LIGHT			8	15W 12Y	POOL CONTRACTOR							
300W TRANSFORMER	P×300		1,	300W	POOL CONTRACTOR							
MAIN DRAIN SUCTION FITTING VGB APROVED	25506-320		1.	NA	POOL CONTRACTOR							
STAINLESS STEEL ENTRY LADDER	SR SMITH PLF-245-4C-MG		Ĭ	NA	POOL CONTRACTOR							
HANDRAIL	SR SMITH 316 STAINLESS CUSTOM RAILING		2	NA	POOL CONTRACTOR							



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EQUIPMENT SCHEDULE FOR: WHISPERING WOODS

1901 SW. RIVER RUN DR. LEE'S SUMMIT, MISSOURI

FLOW CAL	CULATIONS	
PUMP (S)	1	PENTAIR LINTELLIFLOW
POOL CAPACITY GALLONS	42,200	
REQUIRED TURN OVER (6 HOURS OR 4 TIMES PER DAY)	4	
REQUIRED GALLONS PER 24 HOURS	168,800	
REQUIRED GALLONS PER HOUR	TØ3Ø	
REQUIRED GALLONS PER MINUTE	דוו	
REQUIRED PER PUMP	60	
FILTER (6)	2	
FILTER 6Q, FT, (EACH)	520	
FILTER RATE PER GALLON	13	
FILTER RATE AT MAX. PUMP (SQ. FT. PER GALLON)	8.66	
MAX. PUMP FLOW GPM	120	FROM PUMP CHART
MAX, PUMP VELOCITY SUCTION ALLOWED	6 FPS	
MAX. VELOCITY AT MAX. PUMP FLOW FEET PER SECOND (SUCTION)	5.74	
MAX. VELOCITY RETURN REQUIRED	8 FPS	
MAX. VELOCITY AT MAX. (RETURN)	5.74	
MINIMUM PIPE SIZE SUCTION	3"	
MINIMUM PIPE SIZE RETURN	2.5"	
MINIMUM PIPE SIZE SUCTION (AFTER FIRST TEE ON SUCTION)	2"	
MINIMUM PIPE SIZE RETURN (AFTER FIRST TEE ON RETURN)	2"	
MAX. FLOW REQUIREMENTS FOR MAIN DRAIN SPECIFIED	60	
FLOOR GALLONS PER MINUTE	3Ø9	
WALL GALLONS PER MINUTE	212	



VAN DEURZEN & ASSOCIATES, PA

II@		KING STREET, SUITE	13@			
OVERLAND PARK, KS 662	@					
(9	3) 45	-63@5 FAX (9	3) 45	-	@2	
WEB PAGE WWWANDEURZENASSOCCOM E-MAIL YOASYANDEURZENASSOCCOM						

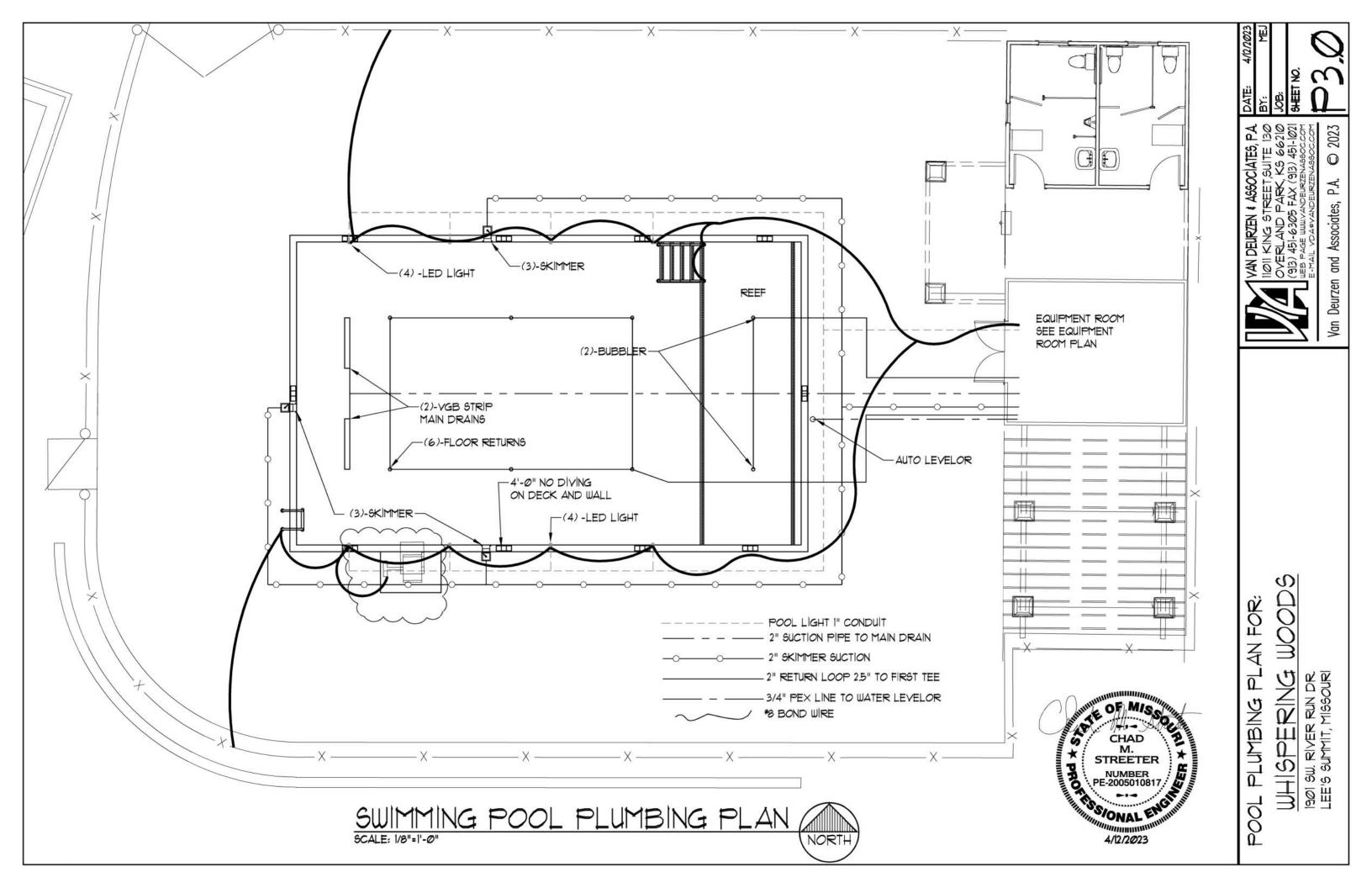
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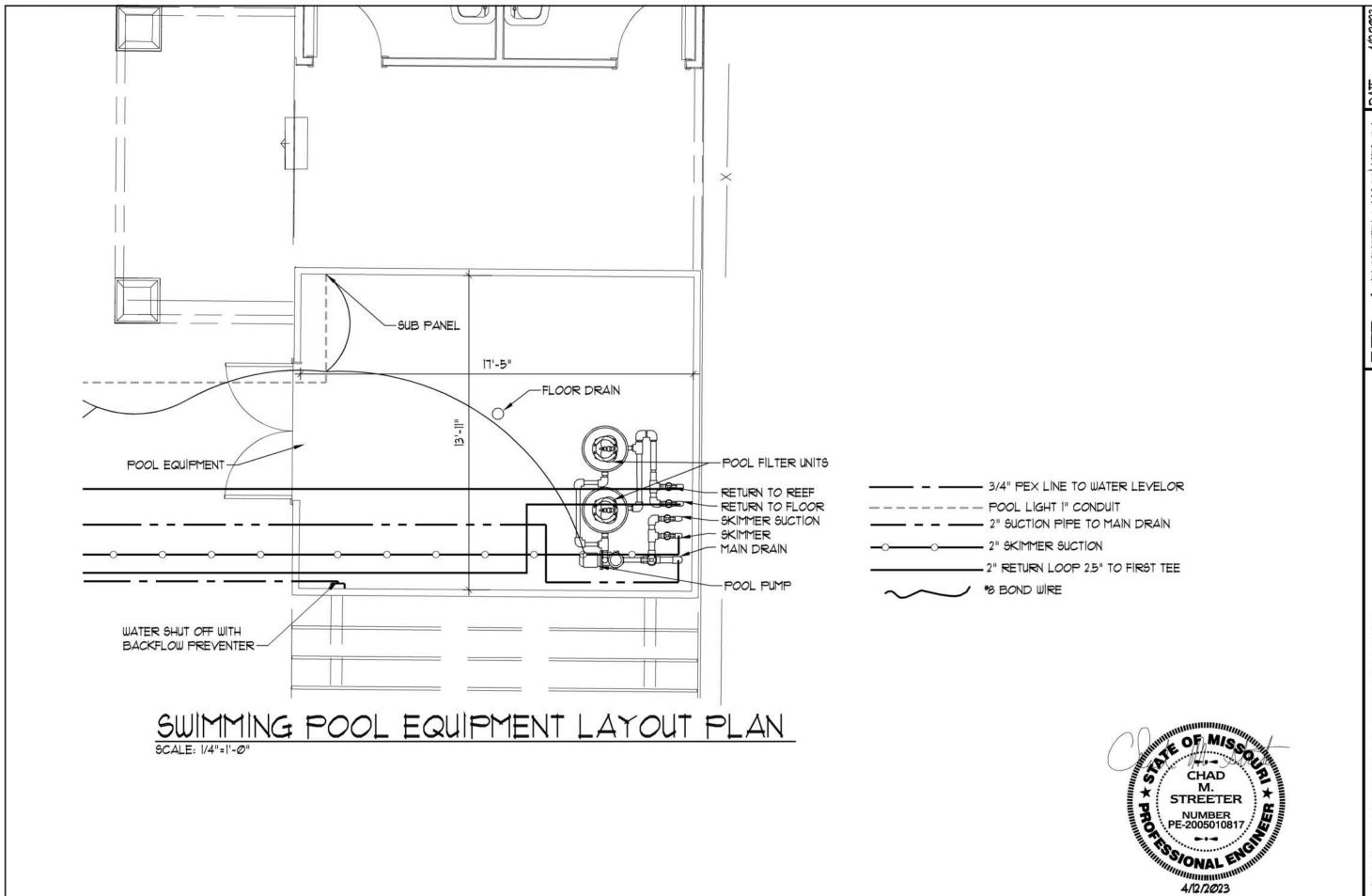
Van Deurzen and Associates, P.A.

FLOW CALCULATIONS FOR:

WHISPERING WOODS

1901 SW. RIVER RUN DR.
LEE'S SUMMIT, MISSOURI



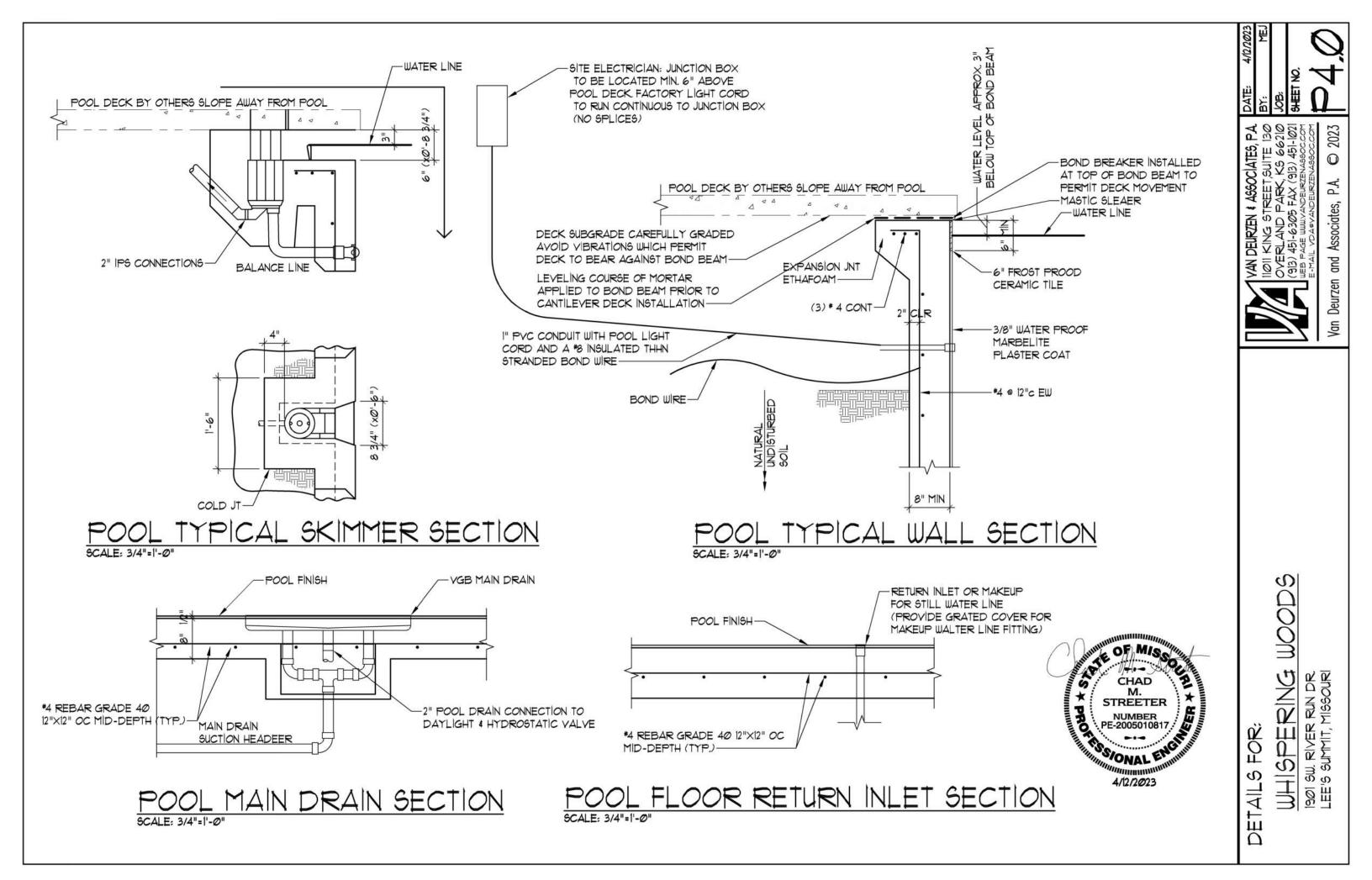


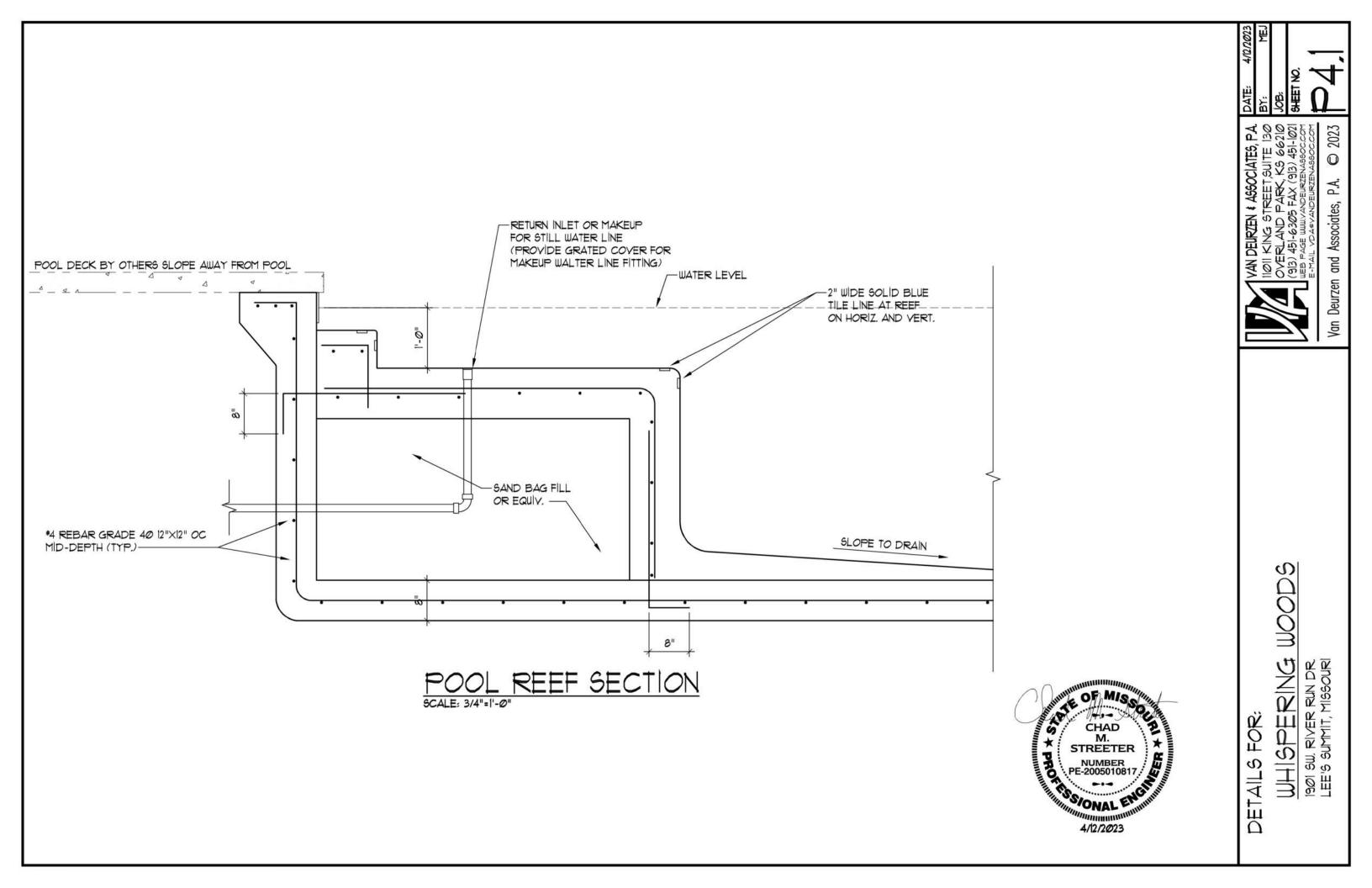
EQUIPMENT ROOM LAYOUT FOR

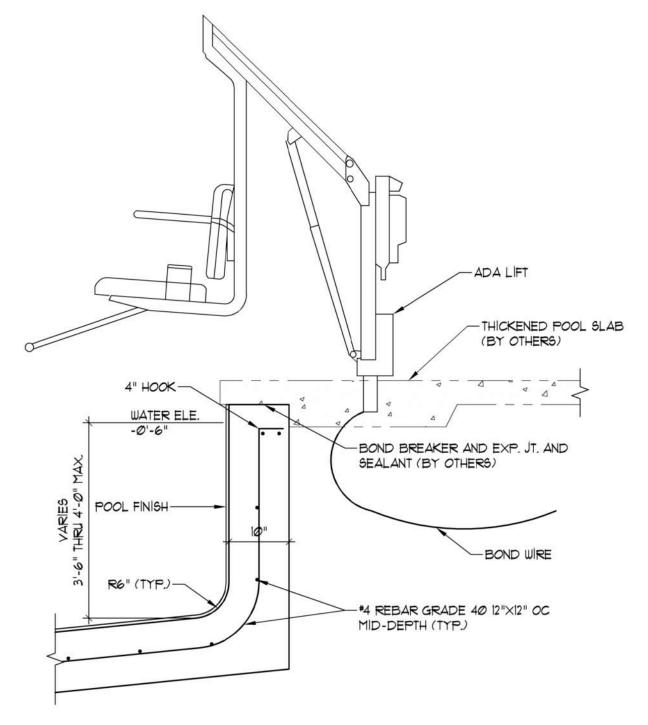
WOODS WHISPERING

O 2023

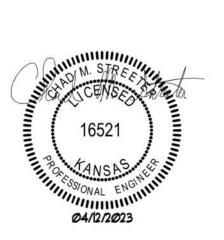
and Associates,







POOL ADA LIFT SECTION

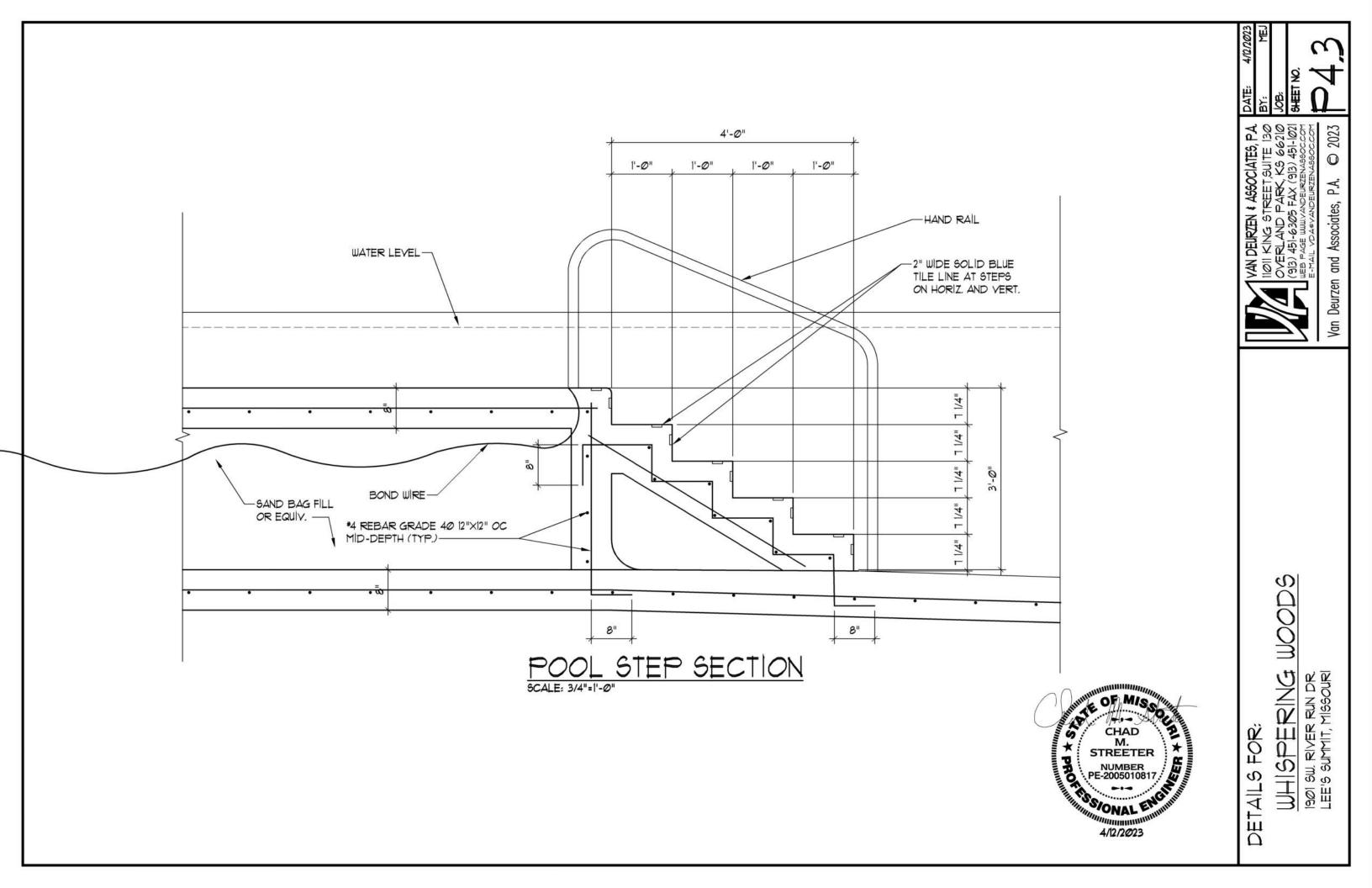


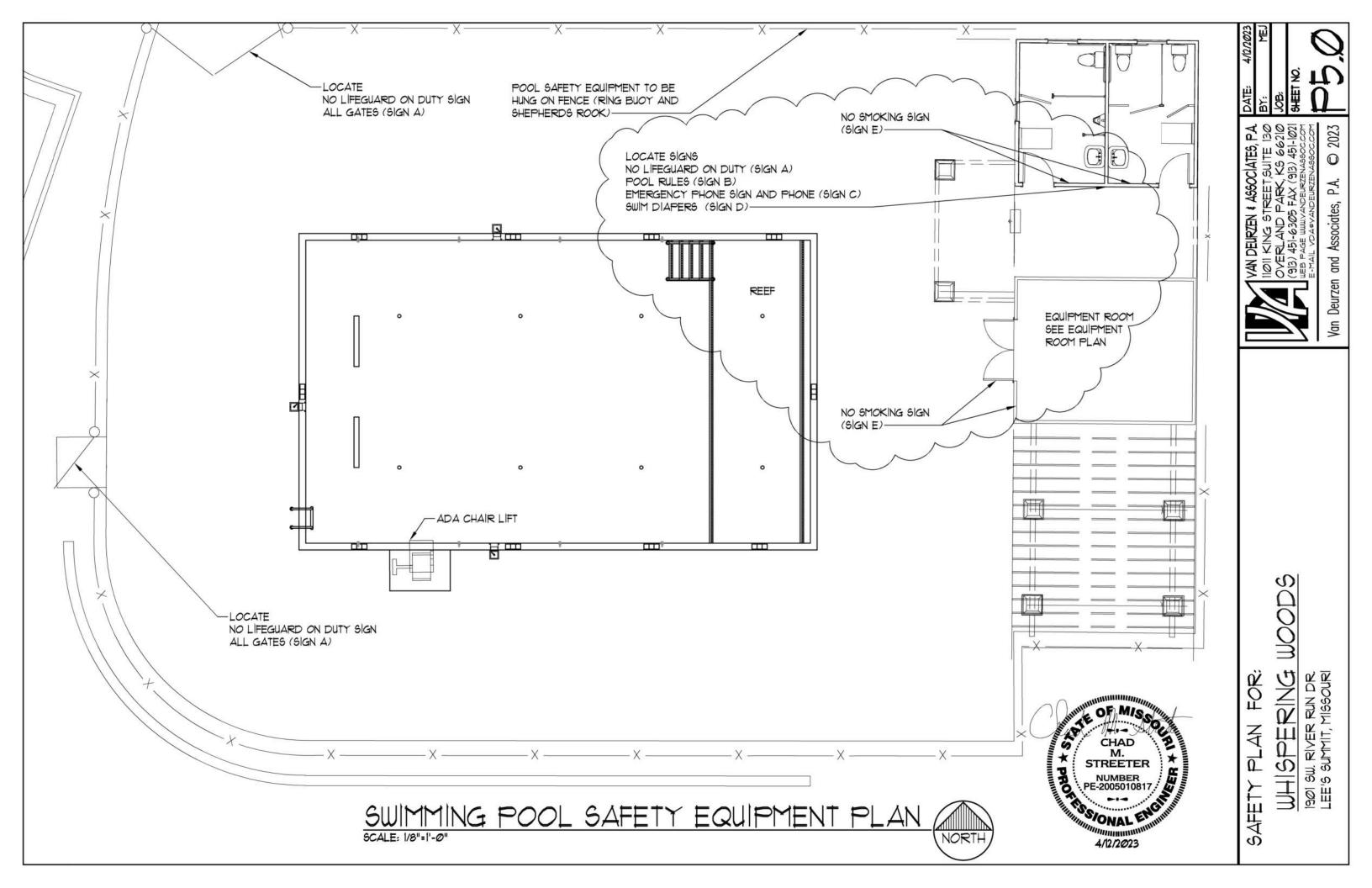
WHISPERING WOODS DETAILS FOR:

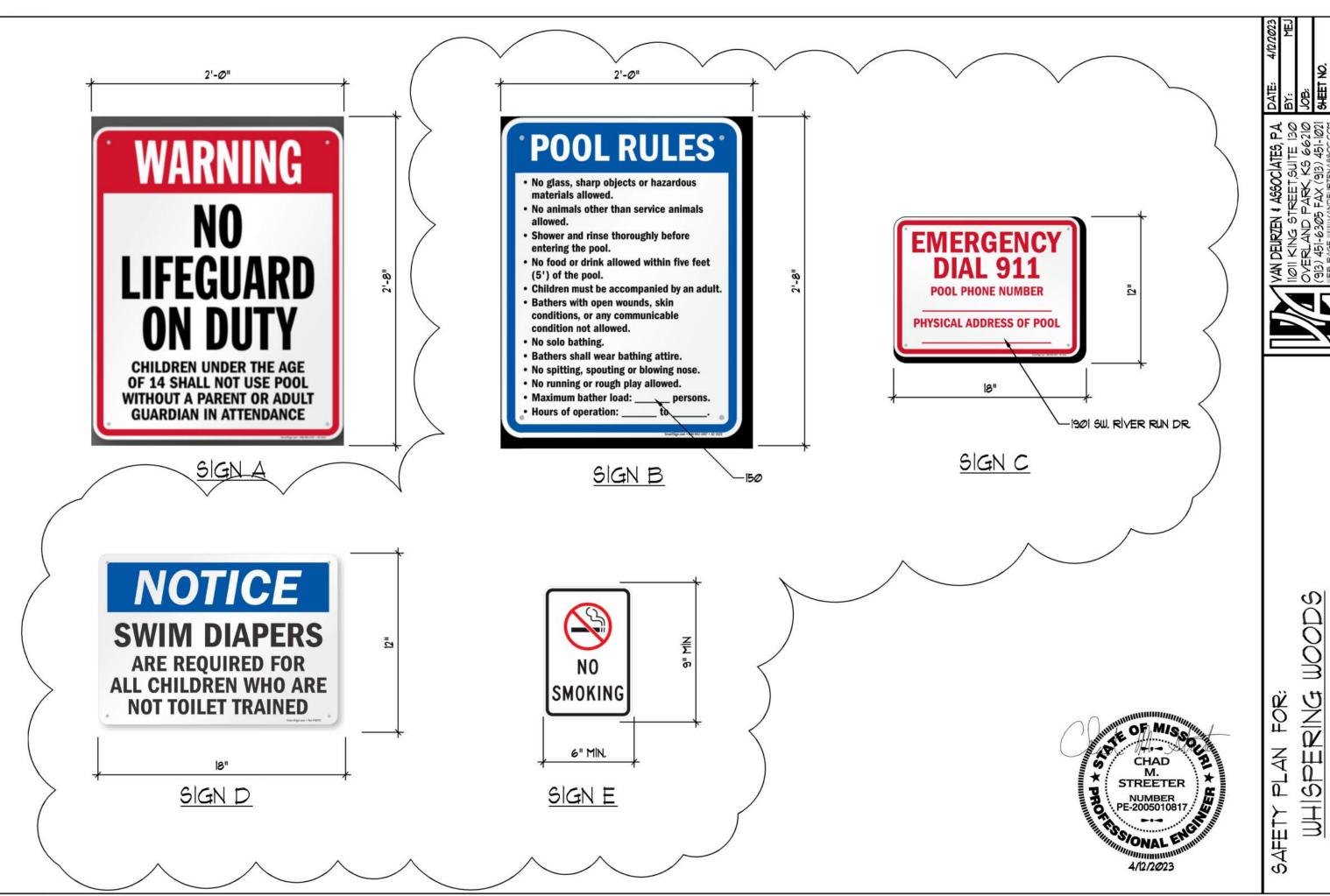
1901 SW. RIVER RUN DR. LEE'S SUMMIT, MISSOURI

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Van Deurzen and Associates, P.A.







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Associates,

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