# LAKEWOOD BUSINESS CENTER, LOT 1

# PERMIT SET

# AUGUST 31, 2023

### **GENERAL NOTES:**

- 1. THE CONTRACTOR SHALL SECURE AND PAY FOR GOVERNMENT LICENSES, INSPECTIONS, TESTING, TEMPORARY UTILITIES AND PERMITS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS AND/OR REGULATORY BODY HAVING
- 2. CONTRACTORS SHALL VISIT THE SITE WHILE BIDDING AND SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND THE REQUIREMENTS OF THE PROJECT AND CONSTRUCTION DOCUMENTS PRIOR TO DEVELOPING THEIR BID, FABRICATION / CONSTRUCTION, AND PURCHASING. MATERIAL QUANTITIES SHALL BE BASED ON ACTUAL FIELD CONDITIONS AND MEASUREMENTS. DO NOT RELY ON SCALING DRAWINGS FOR ACCURATE DIMENSIONS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS DISCOVERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTIONS AND/OR REPAIRS REQUIRED FOR FAILING TO DO SO.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL CONSTRUCTION DOCUMENTS TO THEIR SUBCONTRACTORS AS REQUIRED FOR THEM TO DEVELOP A COMPLETE BID FOR THEIR WORK AND TO HAVE A COMPLETE UNDERSTANDING OF COORDINATION NEEDED WITH OTHER SUBCONTRACTORS FOR RELATED HIDDEN OR EXPOSED WORK TO ENSURE EFFICIENT AND ORDERLY INSTALLATION.
- 4. THE ARCHITECT ASSUMES NO LIABILITY FOR THE SERVICES AND/OR CONSTRUCTION DOCUMENTS OF DESIGN SUB-CONSULTANTS COMPILED INTO THE SET OF DOCUMENTS ISSUED BY THE ARCHITECT. THESE DESIGN SERVICES MAY INCLUDE, BUT ARE NOT LIMITED TO, CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, PLUMBING ELECTRICAL, PRE-ENGINEERED METAL BUILDING DESIGN, TILT-UP DESIGN, TRUSS SYSTEM DESIGN, AUTOMATIC FIRE SPRINKLER AND/OR ALARM SYSTEMS, LOW-VOLTAGE ELECTRICAL TELECOMMUNICATION AND SECURITY SYSTEMS AND GUTTER / DOWNSPOUT DESIGN.
- 5. UNLESS SPECIFICALLY NOTED OTHERWISE, THE CONTRACTOR SHALL PROVIDE AND PAY FOR LABOR, MATERIALS, EQUIPMENT, MACHINERY, SCAFFOLDING, SHORING, TOOLS, LAYOUT, ON-SITE DIMENSIONING, TRANSPORTATION, UTILITIES, AND OTHER FACILITIES AND SERVICES NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS. THIS SHALL ALSO INCLUDE NECESSARY CUTTING, PATCHING AND REPAIRING OF EXISTING CONSTRUCTION MATERIALS IN PLACE. ALL WORK AND MATERIAL SHALL COMPLY WITH THE APPLICABLE GOVERNING CODES LISTED.
- 6. EACH SUBCONTRACTOR SHALL PROVIDE THEIR OWN LIFTING EQUIPMENT AS REQUIRED TO COMPLETE THEIR
- 7. WHERE DETAILS AND DESIGN INTENT ARE NOT CLEAR, THE CONTRACTOR SHALL CONSULT THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK.
- 8. THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING AND BRACING FOR STRUCTURAL MODIFICATIONS, INSTALLATIONS AND ERECTION
- 9. CONTRACTORS SHALL TAKE CARE TO PROTECT ADJACENT AREAS FROM DUST AND DAMAGE DURING THE CONSTRUCTION PROCESS AND SHALL CLEAN UP AFTER THEMSELVES AT THE END OF EACH WORKING DAY. ANY DAMAGE DONE TO ADJACENT AREAS MUST BE REPAIRED TO MATCH ORIGINAL CONDITIONS OR TO THE OWNER'S SATISFACTION. REPAIRS ARE TO BE PAID FOR BY THE CONTRACTOR RESPONSIBLE.
- 10. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY ADDITIONAL WORK OR REVISIONS REQUIRED DUE TO SITE CONDITIONS OR ADDITIONAL REQUIREMENTS OF ANY REGULATORY BODIES HAVING AUTHORITY.
- 11. FOR THE DURATION OF THE PROJECT AND AT ALL TIMES OF EACH DAY, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE CONDITIONS, SECURITY AND SAFETY FOR WORKERS AND THE GENERAL PUBLIC, AS REQUIRED BY THE REGULATORY BODY HAVING AUTHORITY.
- 12. THE GENERAL CONTRACTOR SHALL PURCHASE AND MAINTAIN INSURANCE COVERAGE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER. VERIFY AND COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR ANY ADDITIONAL REQUIREMENTS.
- 13. THE OWNER OR THE OWNER'S SUBCONTRACTORS MAY OCCUPY PORTIONS OF THE PROJECT DURING THE FINAL STAGE OF CONSTRUCTION. COORDINATE AND COOPERATE WITH THE OWNER TO MINIMIZE CONFLICT AND
- 14. THE CONTRACTOR SHALL PROVIDE SECURITY OF THE WORK, INCLUDING TOOLS AND UNINSTALLED MATERIALS. PROTECT THE WORK, STORED PRODUCTS, CONSTRUCTION EQUIPMENT, AND OWNER'S PROPERTY FROM THEFT AND VANDALISM, AND PROTECT THE PREMISES FROM ENTRY BY UNAUTHORIZED PERSONNEL UNTIL FINAL
- 15. CONTRACTOR SHALL COORDINATE STAGING AREAS AS REQUIRED BY THE LANDLORD / OWNER.
- 16. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL EXISTING UTILITIES.
- 17. THE STRUCTURAL ENGINEER AND ARCHITECT MUST BE NOTIFIED AND MUST GIVE APPROVAL PRIOR TO ANY STRUCTURAL MEMBER(S) BEING CUT OR MODIFIED TO ACCOMMODATE THE INSTALLATION OF ANY PIPES, DUCTS OR
- 18. THE STRUCTURAL ENGINEER AND ARCHITECT MUST BE NOTIFIED AND MUST GIVE APPROVAL PRIOR TO ANY MODIFICATION TO THE ROOF SYSTEM OR ADDING ANY ADDITIONAL ROOF-MOUNTED EQUIPMENT.

### **CONSTRUCTION NOTES:**

- 1. PERFORM ALL WORK IN ACCORDANCE WITH ACCEPTABLE TRADE PRACTICE TO ENSURE THE HIGHEST QUALITY FINISHED PRODUCT - EXPRESSED OR IMPLIED. PERFORM ALL WORK BY SKILLED MECHANICS IN ACCORDANCE WITH ESTABLISHED STANDARDS OF WORKMANSHIP IN EACH OF THE VARIOUS TRADES.
- 2. WHEN THE PROJECT REQUIREMENTS REQUIRE THAT THE INSTALLATION OF WORK SHALL COMPLY WITH MANUFACTURER'S INSTRUCTIONS, PERFORM THE WORK IN STRICT ACCORDANCE WITH THE MOST CURRENT WRITTEN MANUFACTURER'S INSTRUCTIONS
- 3. ALL PRODUCTS AND EQUIPMENT SHALL BE DELIVERED IN UNDAMAGED CONDITION AND STORED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS TO AVOID DISRUPTION OF THE WORK OR DAMAGE TO THE ITEMS. REPLACE DAMAGED OR UNFIT MATERIALS, AT NO COST TO THE OWNER.
- 4. COORDINATE BLOCKING REQUIREMENTS WITH ADJACENT OR RELATED TRADES, ACCESSORIES, EQUIPMENT AND FIXTURES. INSTALL REQUIRED BLOCKING AT NO ADDITIONAL COST TO THE CONTRACT.
- 5. ALL WEATHER-EXPOSED SURFACES SHALL HAVE A WEATHER-RESISTIVE BARRIER. EXTERIOR OPENINGS SHALL BE FLASHED IN SUCH A MANNER AS TO MAKE THEM WATERPROOF.
- 6. REPAIR PROPERTY DAMAGE BY THE INSTALLERS TO A LIKE NEW CONDITION, OR REPLACE DAMAGED SURFACES AND MATERIALS OF THE PREVIOUSLY INSTALLED WORK BY OTHER TRADES, INSTALLERS, AND SUBCONTRACTORS.
- 7. ALLOWABLE TOLERANCES UNLESS OTHERWISE NOTED OR INDICATED, THE FOLLOWING TOLERANCES SHALL g. ALL VERTICAL SURFACES SHALL BE PLUMB OR CONSTRUCTED TO THE EXACT SLOPES OR ANGLES INDICATED.
- h. ALL HORIZONTAL SURFACES SHALL BE LEVEL OR CONSTRUCTED TO THE EXACT ANGLE INDICATED OR
- i. WALL AND SOFFIT INTERSECTIONS SHALL BE 90° OR THE EXACT ANGLE INDICATED OR INTENDED. j. ALL CORNERS AND EDGES SHALL BE STRAIGHT AND TRUE WITHOUT DENTS, WAVES, BULGES OR OTHER
- k. ALL JOINTS SHALL BE TIGHT, STRAIGHT, EVEN, AND SMOOTH. I. ALL OPERABLE ITEMS SHALL OPERATE SMOOTHLY WITHOUT STICKING OR BINDING AND WITHOUT EXCESSIVE
- 8. THE CONTRACTOR SHALL NOTIFY THE OWNER WHEN THE WORK IS SUBSTANTIALLY COMPLETE AND READY FOR INSPECTION. UPON INSPECTION, PROVIDE WRITTEN OPERATION AND MAINTENANCE INSTRUCTIONS AND GUARANTEES FOR ALL EQUIPMENT AND MATERIALS INSTALLED. PROVIDE WRITTEN GUARANTEES FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.

#### **ARCHITECTURAL ABBREVIATIONS:\***

GROUND FAULT CIRCUIT

**INTERRUPTER** 

GYPSUM BOARD

GLASS

HOSE BIE

HARDWARE

HARDWOOD

INSULATION

DISCLAIMER:

**HOLLOW METAL** 

**HEIGHT** 

HOUR

HRDWD

TO

TYP

TOP OF

TYPICAL

VERTICAL

WITH

WOOD

THESE DRAWINGS ARE CONSIDERED A "BUILDER'S SET", AND BY BEGINNING CONSTRUCTION, THE CONTRACTOR

GUARANTEES TO THE ARCHITECT, THAT THE CONTRACTOR HAS THE COMPETENCE AND SKILL IN CONSTRUCTION

QUANTITY. IN THE EVENT ADDITIONAL DETAIL OR GUIDANCE IS NEEDED, THE CONTRACTOR SHALL IMMEDIATELY

NOTIFY THE ARCHITECT. FAILURE TO GIVE NOTICE SHALL RELIEVE THE ARCHITECT OF RESPONSIBILITY FOR ANY

IS NOT HIRED TO DO CONSTRUCTION OBSERVATION OR ANY OTHER CONSTRUCTION PHASE SERVICES, THAT THE

ARCHITECT IS NOT LIABLE FOR ANY CLAIMS THAT MAY BE IN ANY WAY CONNECTED THERETO.

RESULTANT EXPENSES, REPAIRS OR ADDITIONAL WORK. IT IS UNDERSTOOD AND AGREED THAT IF THE ARCHITECT

DRAWINGS TO ACTUAL FIELD CONDITIONS AND MAKE LOGICAL ADJUSTMENTS IN FIT, FORM, DIMENSION AND

NECESSARY TO BUILD THE PROJECT WITH THESE DRAWINGS. THE CONTRACTOR WILL BE REQUIRED TO ADAPT THE

WASHER, WIDE

WATER HEATER

WALK-IN CLOSET

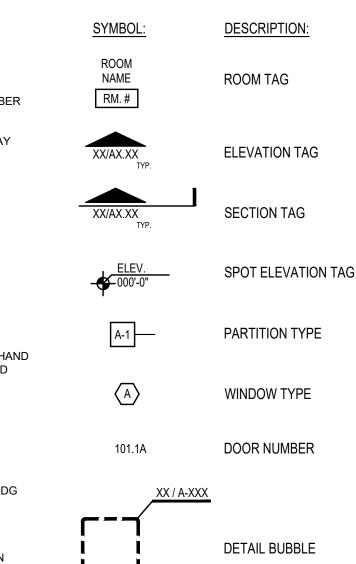
WELDED WIRE FABRIC

UNLESS NOTED OTHERWISE

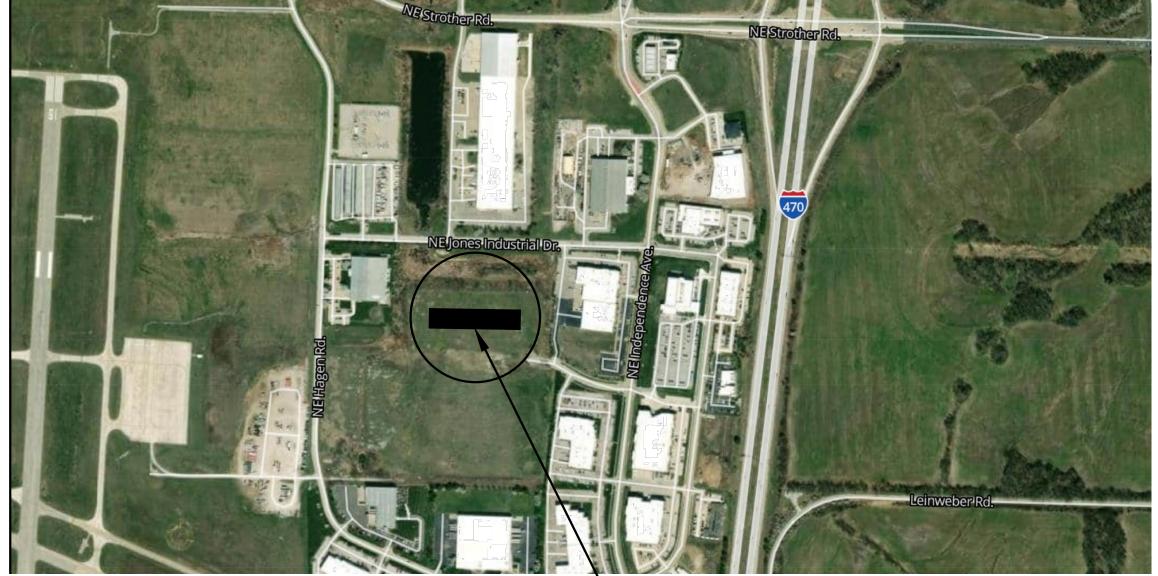
VINYL COMPOSITION TILE

	THE CONTRACTOR SHALL NOTIFY TH	SYMBOL LE			
@	AT	JT	JOINT		
e ACT	ACOUSTIC CEILING TILE	01	30111	SYMBOL:	DI
ADJ	ADJUSTABLE	KS	KNEE SPACE		_
AFF	ABOVE FINISHED FLOOR	NO	NNLL SPACE	DOOM	
		1	LONG	ROOM	_
ALUM	ALUMINUM	L LD (#)	POUND	NAME	R(
ANOD	ANODIZED	LB (#) LVL	LAMINATED VENEER LUMBER	RM. #	
ATT	ATTENUATION	LVL	LAWIINATED VENEER LOWIBER	TAIVI. #F	
BD	BOARD	MAX	MAXIMUM	_	
BET	BETWEEN	MDO	MEDIUM DENSITY OVERLAY		
BF	BARRIER FREE	MECH	MECHANICAL	XX/AX.XX	El
BIT	BITUMINOUS	MFR	MANUFACTURER	TYP.	
BLDG	BUILDING	MICRO	MICROWAVE		
во	BOTTOM OF	MIN	MINIMUM		
BTM	BOTTOM	MO	MASONRY OPENING	XX/AX.XX	SI
		MR	MOISTURE RESISTANT	TYP.	Ol
CPT	CARPET	MTD	MOUNTED	****	
CT	CERAMIC TILE	MTL	METAL		
CJ	CONTROL JOINT			ELEV/	
CL	CENTER LINE	NIC	NOT IN CONTRACT	ELEV.	SF
CLG	CEILING	NO	NUMBER	-000'-0"	
CLR	CLEAR	NOM	NOMINAL	'	
CMU	CONCRETE MASONRY UNIT				
COMP	COMPRESSIBLE	O.C.	ON CENTER		P/
CONC	CONCRETE	O.D.	OUTSIDE DIAMETER	A-1 —	P.
CONT	CONTINUOUS	O.H.	OVERHEAD or OPPOSITE HAND	<del></del>	
00111	001111110000	OSB	ORIENTED STRAND BOARD		
D	DRYER	OZ	OUNCE		
DEG	DEGREE	0_	33.132	<b>〈</b> A <b>〉</b>	W
DEMO	DEMOLITION	PREFAB	PREFABRICATED	$\bigcup$	
DF	DRINKING FOUNTAIN	PLAM	PLASTIC LAMINATE		
DH	DOUBLE-HUNG	PLYWD	PLYWOOD		
DIA	DIAMETER	PR	PAIR	101.1A	D(
DN	DOWN	PT	PRESSURE TREATED		
DP	DEEP	PNT	PAINT		
DS	DOWN SPOUT	PEMB	PRE-ENGINEERED MTL BLDG	XX / A-XXX	Y
DW	DISHWASHER		THE ENGINEERED WITE BEDG	XX / R-XXX	^
	2.5	QTY	QUANTITY	<b>_</b>	
EA	EACH			<b>I</b>	
EJ	EXPANSION JOINT	R	RISER	i i	DE
EQ	EQUAL	RCP	REFLECTED CEILING PLAN	- 1	
ETR	EXISTING TO REMAIN	REF	REFRIGERATOR, REFERENCE		
EXG	EXISTING	REINF	REINFORCED		
EXP	EXPOSED TO STRUCTURE	REQD	REQUIRED		
		RM	ROOM		
FD	FLOOR DRAIN	RO	ROUGH OPENING	GENERAL DIMENSION	DNING
FE	FIRE EXTINGUISHER, FINISHED	RCB	RUBBER COVE BASE	DIMENSIONS ARE TO	O THE
	END			BOARD AT INTERIOR	R PAR
FF	FINISHED FLOOR	SC	SEALED CONCRETE	THE FACE OF STEEI	L STR
F&I	FURNISH AND INSTALL	SF	SQUARE FEET	BUILDING GRID LINE	ES) AT
FLR	FLOOR	SIM	SIMILAR	DEMISING WALLS.	
FR	FIRE RETARDANT	SQ	SQUARE		
FRP	FIBER-REINFORCED PLASTIC	SS	STAINLESS STEEL		
FV	FIELD VERIFY	ST	STAIN		
GA	GAUGE	Т	TREAD		
GALV	GALVANIZED	TBD	TO BE DETERMINED		
GC	GENERAL CONTRACTOR	TI	TENANT IMPROVEMENT		
CEL	CROUND FAULT CIRCUIT	TO	TOD OF		

## **ARCHITECTURAL**



<u>G NOTE:</u> ALL IE FACE OF GYPSUM RTITIONS AND TO RUCTURE (OR AT EXTERIOR AND



H4 VICINITY MAP

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- C.051 ESC PHASE 2 INACTIVE AREA STABILIZATION PLAN
- C.052 ESC PHASE 3 FINAL RESTORATION PLAN C.053 ESC - STANDARD DETAILS
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- C.200 GRADING PLAN
- SPOT ELEVATIONS
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- A-110 AREA PLAN WEST, ENLARGED PLAN
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- A-200 EXTERIOR ELEVATIONS
- A-201 ENLARGED EXTERIOR ELEVATIONS A-300 WALL SECTIONS AND PLAN DETAIL
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- NOTES AND DETAILS
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#### MECHANICAL: M-001 MECHANICAL SPECIFICATIONS AND SYMBOLS

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- M-101 PARTIAL MECHANICAL PLAN WEST
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- P-101 PARTIAL PLUMBING PLAN WEST
- P-102 PARTIAL PLUMBING PLAN CENTER P-103 PARTIAL PLUMBING PLAN - EAST
- P-104 ENLARGED PLUMBING PLAN

#### **ELECTRICAL**

- ELECTRICAL SPECIFICATIONS, SYMBOLS, & NOTES
- E-002 SITE LIGHTING PHOTOMETRIC
- E-003 SITE LIGHTING PHOTOMETRIC
- E-100 SITE ELECTRICAL PLAN
- E-101 PARTIAL ELECTRICAL PLAN WEST E-102 PARTIAL ELECTRICAL PLAN - CENTER
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- E-104 ENLARGED ELECTRICAL PLANS
- ELECTRICAL SCHEDULES AND DIAGRAMS
- E-202 ELECTRICAL SCHEDULES

**COVER SHEET** 

Sheet Title:

MIDWEST ARCHITECTS 120 NW Eagle Ridge Blvd. Grain Valley, Missouri 64029

t: (816) 229**-**8115

Nard Development

t: (816) 229-8115

Civil Engineering: Engineering Solutions 50 SE 30th Street

t: (816) 623-9888

Structura Logica

t: (816) 872-4883

MEP Engineering:

t: (816) 272-5289

JSC Engineers

Structural Engineering

18901 E. 299th Street

Harrisonville, MO 64701

1925 Central Street, Suite 201

evisions to technical submissions which are i made or approved by the licensee are prohibite

lichael Moores, MO Architect #2009032812

Project Type: NEW CONSTRUCTION

Project Name and Address:

0

roject Number:

**CENTER**,

BUSINESS

LAKEW00D

Kansas City, MO 64108

Consultants:

1120 NW Eagle Ridge Blvd. Grain Valley, Missouri 64029

Lee's Summit, Missouri 64082

Part of Section 20, Township 48 North, Range 31 West LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

ALL PAVING ON THE PARKING LOT WILL COMPLY WITH THE UNIFIED DEVELOPMENT ORDINANCE ARTICLE 8 IN TERMS OF PAVING THICKNESS AND BASE

#### OIL - GAS WELLS

ACCORDING TO EDWARD ALTON MAY JR'S ENVIRONMENTAL IMPACT STUDY OF ABANDONED OIL AND GAS WELLS IN LEE'S SUMMIT, MISSOURI IN 1995, THERE ARE NOT OIL AND GAS WELLS WITHIN 185 FEET OF THE PROPERTY AS SURVEYED HEREON.

#### **SURVEY AND PLAT NOTES:**

THE SUBJECT PROPERTY SURVEYED LIES WITHIN A FLOOD ZONE DESIGNATED ZONE (X), AREAS LOCATED OUTSIDE THE 100 YEAR FLOOD PLAIN, PER F.E.M.A. MAP, COMMUNITY PANEL NO. 29095C0430G EFFECTIVE DATE: JANUARY 20, 2017.

#### **UTILITY COMPANIES:**

THE FOLLOWING LIST OF UTILITY COMPANIES IS PROVIDED FOR INFORMATION ONLY. WE DO NOT OFFER ANY GUARANTEE OR WARRANTY THAT THIS LIST IS COMPLETE OR ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES THAT MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION AND VERIFYING THE ACTUAL LOCATION OF EACH UTILITY LINE. THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH PROPOSED IMPROVEMENTS. EVERGY ~ 298-1196 MISSOURI GAS ENERGY ~ 756-5261

SOUTHWESTERN BELL TELEPHONE ~ 761-5011

WILLIAMS PIPELINE ~ 422-6300 CITY OF LEE'S SUMMIT PUBLIC WORKS ~ 969-1800 CITY OF LEE'S SUMMIT DEVELOPMENT ENGINEERING INSPECTION AT 816.969.1200 CITY OF LEE'S SUMMIT WATER UTILITIES ~ 969-1900

#### MISSOURI ONE CALL (DIG RITE) ~ 1-800-344-7483

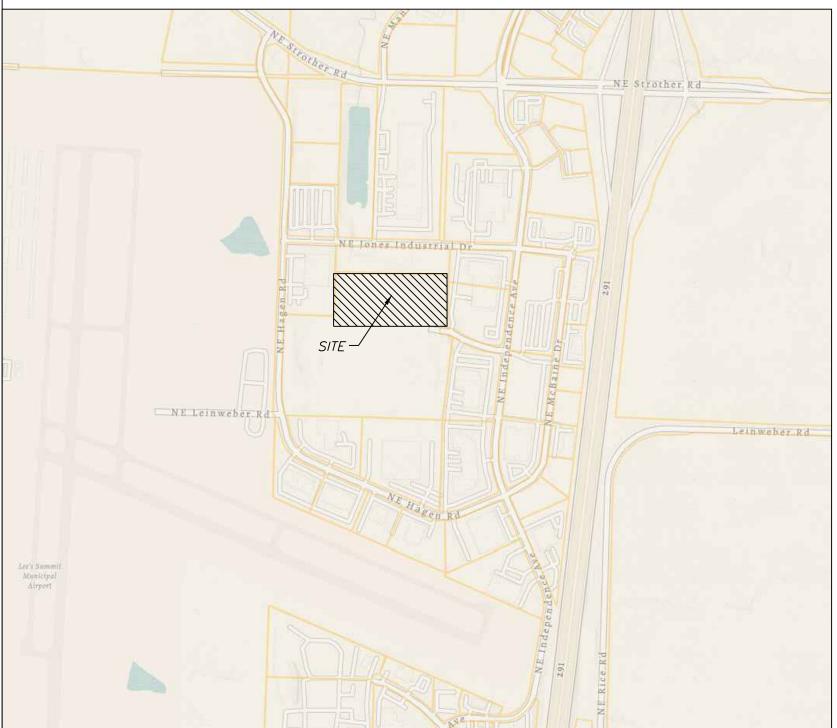
#### **GENERAL NOTES:**

1 ~ ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY 2 ~ ALL REQUIRED EASEMENTS WITHIN THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR ON THE FINAL PLAT.

INSTRUMENT PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS. 4 ~ THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200. 5 ~ THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH THE IMPROVEMENTS

PROPOSED BY THESE PLANS AND SITE CONDITIONS. 6 ~ THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND OBTAIN THE APPROPRIATE BLASTING PERMITS FOR A REQUIRED BLASTING. IF BLASTING IS ALLOWED, ALL BLASTING SHALL CONFORM TO STATE REGULATIONS AND LOCAL ORDINANCES.

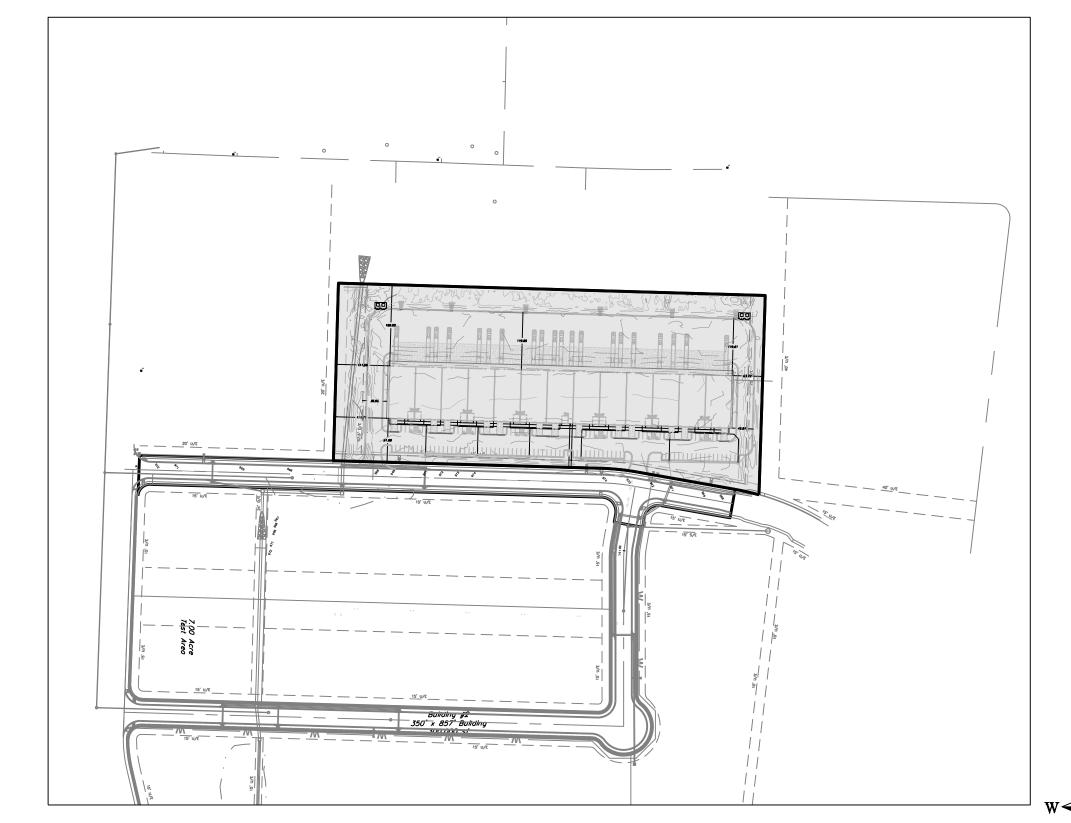
ALL CONSTRUCTION SHALL FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813. WHERE DISCREPANCIES EXIST BETWEEN THESE PLANS AND THE DESIGN AND CONSTRUCTION MANUAL, THE DESIGN AND CONSTRUCTION MANUAL SHALL PREVAIL.





**DEVELOPER:** 

NORTH OAK SAFETY STORAGE LLC 1120 NW EAGLE RIDGE BLVD GRAIN VALLEY, MO 64029



SITE LOCATION MAP

## **Summary of Quantities:**

ITEM AND DESCRIPTION	UNIT	ESTIMATED QUANTITY
ASPHALT PAVING	S.Y.	17,018.00
GEOGRID	S.Y.	20,421.00
MoDOT Type 5 Base	S.Y.	20,421.00
KCMMB ENTRANCE	UNIT	2
CURBING	FT	4,370.00
ADA SIDEWALK RAMP	UNIT	4
SANITARY 8" PVC SDR 26 Service Line	FT	82.00
TRACER WIRE AND EQUIPMENT	FT	825.00
CLEARING, GRADING & GRUBBING	LS	1
SILT FENCE	FT	4,350.00
INLET PROTECTION	UNIT	10.00
SEEDING / MULCHING/ FERTILIZING	AC	7.70
CONST. ENTRANCE	UNIT	2
STORM		
15" HDPE	FT	663.21
5' x 4' STORM CURB INLET	EA	7.00
WATER		
2" Type K Soft Copper Water Service Line	FT	89.00
6" C900 PVC CLASS 200	FT	79.00
BACKFLOW VAULT	UNIT	1



C.001 ~ COVER SHEET

C.052 ~ ESC PHASE 3 - FINAL RESTORATION PLAN

C.053 ~ ESC - STANDARD DETAILS

C.101 ~ DIMENSION PLAN

C.300 ~ STORM SEWER GENERAL LAYOUT

C.400 ~ SANITARY SERVICE PLAN

L.101 ~ LANDSCAPE PLAN DETAILS

**Current Zoning:** 

7.70 acres (335238.11 sq. ft.)

Site Area 7.70 Acres

231,200 sq. ft (68.97% of Site)

#### <u>Site Improvement Notes</u>

Sanitary Sewer Improvements -The site will connect to the existing sanitary sewer on the east side of the property on Lot 23B.

-The site will utilize the existing water on the north side of NE Maguire

-Enclosed pipe systems and inlets will collect and convey the onsite storm

Storm Water Detention

#### I FGFND.

LEGENU.			
Existing Underground Power	——UGP—	——UGP-	
Existing Conc. Curb & Gutter			
Existing Wood Fence	X	X	
Existing Gas Main		-GAS	
Existing Water Main	-X-W/M		
Existing Storm Sewer	-X-STM- — —		
Existing Sanitary Sewer	-X-SAN- — —		
Existing Underground Telephone	eUGT	——UGT—	
Existing Overhead Power		-OHE	
Proposed Storm Sewer	ST	_stst_	
Proposed Sanitary Sewer	ss	ss _	
Proposed Underground Power	——UGT—	——UGT—	
Proposed Gas Service		GAS -	
Proposed 8" D.I.P. Water		– w———	
Proposed Electrical Service	——UGP—	UGP-	

#### **ENGINEER'S CERTIFICATION:**

I HEREBY CERTIFY THAT THIS PROJECT HAS BEEN DESIGNED AND THESE PLANS PREPARED IN ACCORDANCE WITH THE CURRENT DESIGN CRITERIA OF THE CITY OF LEE'S SUMMIT, MISSOURI AND THE STATE OF MISSOURI. I FURTHER CERTIFY THAT THESE PLANS WERE DESIGNED IN ACCORDANCE TO AASHTO STANDARDS.

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C.050 ~ ESC PHASE 1 - PRE CLEARING PLAN

C.051 ~ ESC PHASE 2 - INACTIVE AREA STABILIZATION PLAN

C.100 ~ SITE PLAN

C.200 ~ GRADING PLAN

C.301 ~ STORM SEWER PLAN AND PROFILE

C.500 ~ WATER LINE PLAN C.600 ~ STANDARD DETAILS

C.601 ~ STANDARD DETAILS C.602 ~ STANDARD DETAILS L.100 ~ LANDSCAPE PLAN

<u>Site Impervious Area</u> 78,038 sq. ft. 153,162 sq. ft

water runoff and direct it toward the existing public storm sewer system. -Existing Storm Detention is on north side of property.

Matthew J. Schlicht MO PE 2006019708 KS PE 19071 OK PE 25226 REVISIONS

Engineering 2005002186-D Surveying 2005008319-D

Engineering E-1695

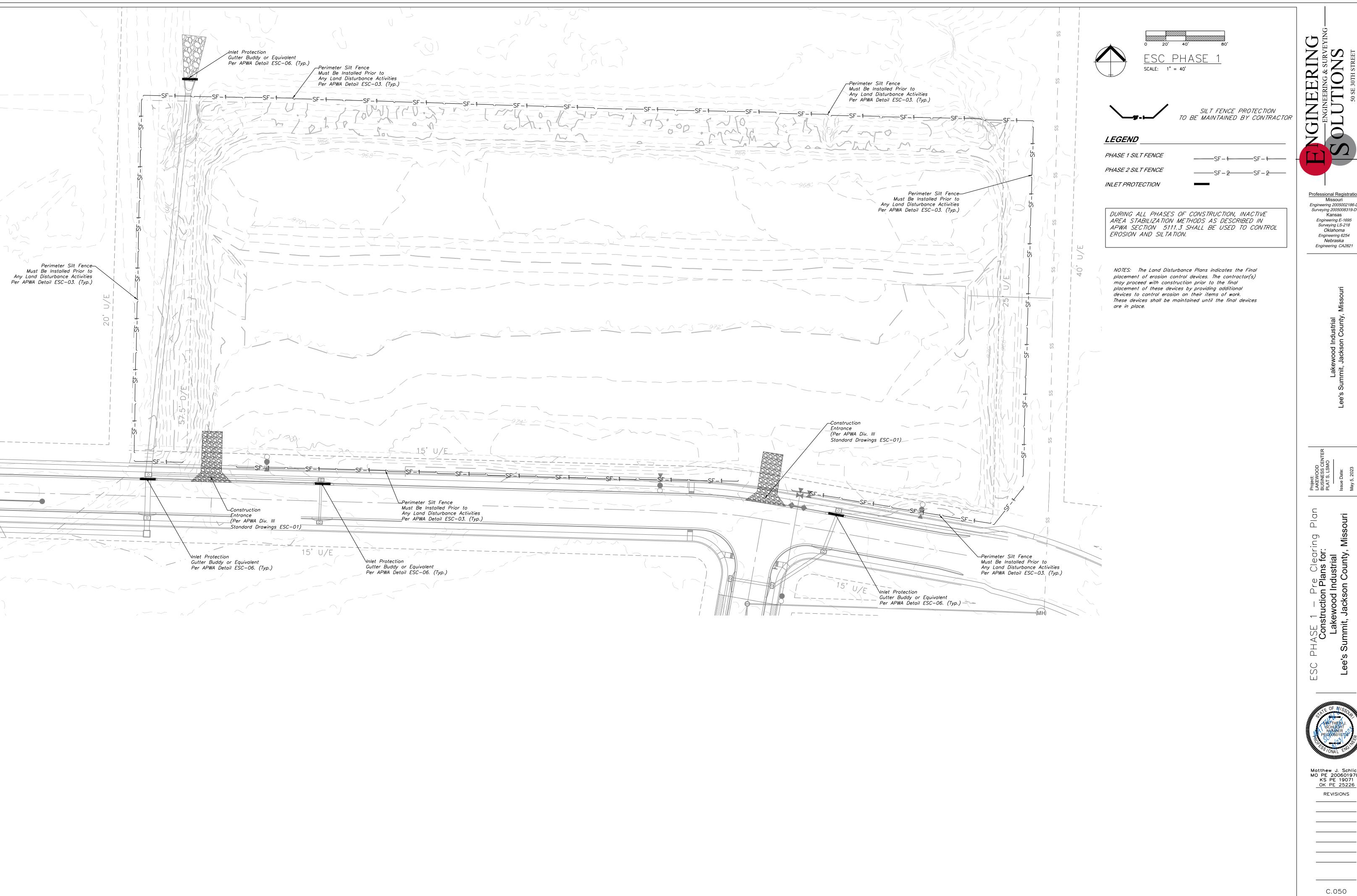
Surveying LS-218

Engineering 6254

Engineering CA2821

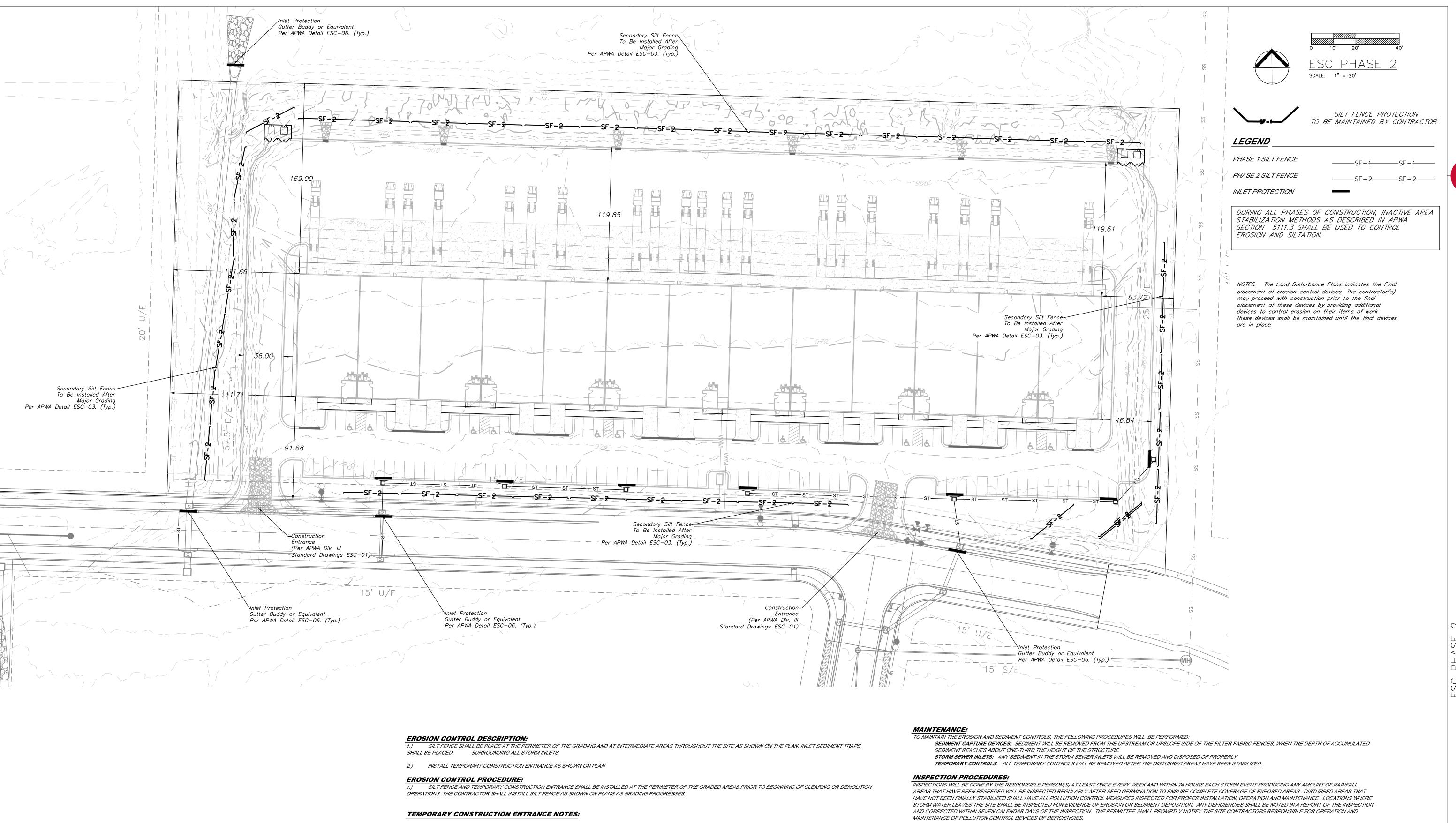
C.001

Vicinity Map



Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218 Oklahoma Engineering 6254 Nebraska

Matthew J. Schlicht MO PE 2006019708 KS PE 19071 OK PE 25226 REVISIONS



1.) AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC STREETS. IF POSSIBLE, LOCATE WHERE PERMANENT ROADS WILL EVENTUALLY BE CONSTRUCTED

3.) IF SLOPE TOWARDS THE PUBIC ROAD EXCEED 2% CONSTRUCT A 6 TO 8 INCH HIGH RIDGE WITH 3H: 1V SIDE SLOPES ACROSS THE FOUNDATION APPROXIMATELY 15

-SMALL STONE, THIN PAD, OR ABSENCE OF GEOTEXTILE FABRIC RESULTS IN RUTS AND MUDDY CONDITIONS AS STONE IS PRESSED INTO SOIL - INCREASE STONE SIZE

2.) REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE AND CROWN FOR POSITIVE DRAINAGE.

-PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC - EXTEND PAD BEYOND THE MINIMUM 50 FOOT LENGTH AS NECESSARY

4.) IMMEDIATELY REMOVE MUD OR SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADWAY. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY

4.) INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES ALONG PUBLIC ROADS

6.) DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE

1.) CONSULT WITH A QUALIFIED DESIGN PROFESSIONAL IF ANY OF THE FOLLOWING OCCUR:

- INSTALL DIVERSIONS OR OTHER RUNOFF CONTROL MEASURES

THICKNESS OR ADD GEOTEXTILE FABRIC

1.) INSPECT STONE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER ANY RAIN EVENT

2.) RESHAPE PAD AS NEEDED FOR PROPER DRAINAGE AND RUNOFF CONTROL

3.) TOP DRESS WITH CLEAN 2 AND 3 INCH STONE AS NEEDED

5.) PLACE STONE TO DIMENSIONS AND GRADES AS SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPED FOR DRAINAGE

7.) IF WET CONDITIONS ARE ANTICIPATED PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY

-INADEQUATE RUNOFF CONTROLS TO THE EXTENT THAT SEDIMENT WASHES ONTO PUBLIC ROADS

5.) REMOVE ALL TEMPORARY ROAD MATERIALS FROM AREAS WHERE PERMANENT VEGETATION WILL BE ESTABLISHED

FEET FROM THE EDGE OF THE PUBLIC ROAD TO DIVERT RUNOFF AWAY FROM IT.

B.) TROUBLESHOOTING

C.) INSPECTION AND MAINTENANCE

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IF THE EXISTING GROUND COVER IS NATURAL GRASS. DISTURBED AREAS SHALL BE TEMPORARILY SEEDED WITH WHEAT/RYE AT A RATE OF 1.5 POUNDS PER 1000 SQUARE FEET.

SQUARE FEET. BOTH TEMPORARY AND PERMANENT SEEDED AREAS SHALL BE MULCHED AND WATERED TO MAINTAIN THE PROPER MOISTURE LEVEL OF THE SOIL TO ESTABLISH

GRASS. NEW GRASS SHALL BE WATERED AND MAINTAINED UNTIL IT REACHES A HEIGHT OF 3 INCHES. ANY BARE AREAS SHALL BE RESEEDED.

THE DEVELOPER WILL DESIGNATE A QUALIFIED PERSON OR PERSONS TO PERFORM THE FOLLOWING INSPECTIONS:

SIGNIFICANT AMOUNTS OF POLLUTANTS FROM ENTERING RECEIVING WATERS.

FOR STABILIZATION MEASURES.

THE INSPECTION IF DULY AUTHORIZED TO DO SO.

ALL EROSION CONTROL DEVICES SHALL BE REMOVED BY GENERAL CONTRACTOR AFTER SITE STABILIZATION IS COMPLETE AND APPROVED BY ENGINEER.

FABRIC. CONTRACTOR CAN CONTACT ENGINEERING SOLUTIONS FOR COPIES OF THE INSPECTION FORM TO BE USED FOR STABILIZATION MEASURES.

CONSTRUCTION ENTRANCE: LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE WILL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

A LOG OF EACH INSPECTION SHALL BE KEPT. THE INSPECTION REPORT IS TO INCLUDE THE FOLLOWING MINIMUM INFORMATION: INSPECTOR'S NAME, DATE OF INSPECTION,

PERMANENT SEEDING SHALL CONSIST OF 90% IN THREE EQUAL PARTS OF THIN BLADE, TURF-TYPE, TALL FESCUE AND 10% BLUEGRASS SEED AT A RATE OF 10 POUNDS PER 1000

STABILIZATION MEASURES: DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION WILL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. AFTER A PORTION OF THE SITE IS FINALLY STABILIZED, INSPECTIONS WILL BE CONDUCTED AT LEAST

STRUCTURAL CONTROLS: FILTER FABRIC FENCES AND ALL OTHER EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN WILL BE INSPECTED REGULARLY FOR

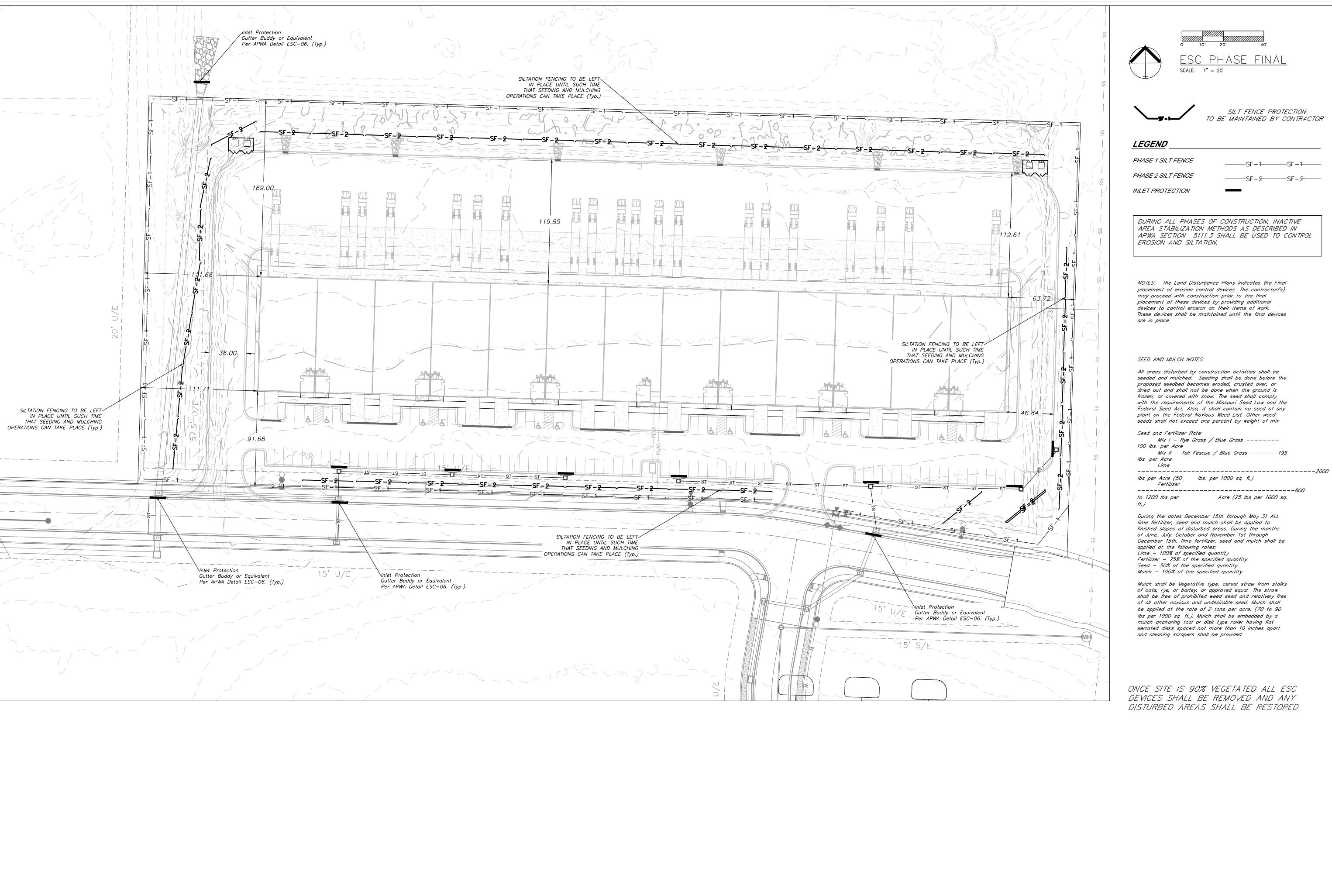
ONCE EVERY MONTH THROUGHOUT THE LIFE OF THE PROJECT. CONTRACTOR CAN CONTACT ENGINEERING SOLUTIONS FOR COPIES OF THE INSPECTION FORM TO BE USED

PROPER POSITIONING, ANCHORING, AND EFFECTIVENESS IN TRAPPING SEDIMENTS. SEDIMENT WILL BE REMOVED FROM THE UPSTREAM OR UPSLOPE SIDE OF THE FILTER

DISCHARGE POINTS: DISCHARGE POINTS OR LOCATIONS WILL BE INSPECTED TO DETERMINE WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING

OBSERVATIONS RELATIVE TO THE EFFECTIVENESS OF THE POLLUTION CONTROL DEVICES, ACTIONS TAKEN OR NECESSARY TO CORRECT DEFICIENCIES, AND LISTING OF AREAS WHERE

LAND DISTURBANCE OPERATIONS HAVE PERMANENTLY OR TEMPORARILY STOPPED. THE INSPECTION REPORT SHALL BE SIGNED BY THE PERMITTEE OR BY THE PERSON PERFORMING



APWA SECTION 5111.3 SHALL BE USED TO CONTROL

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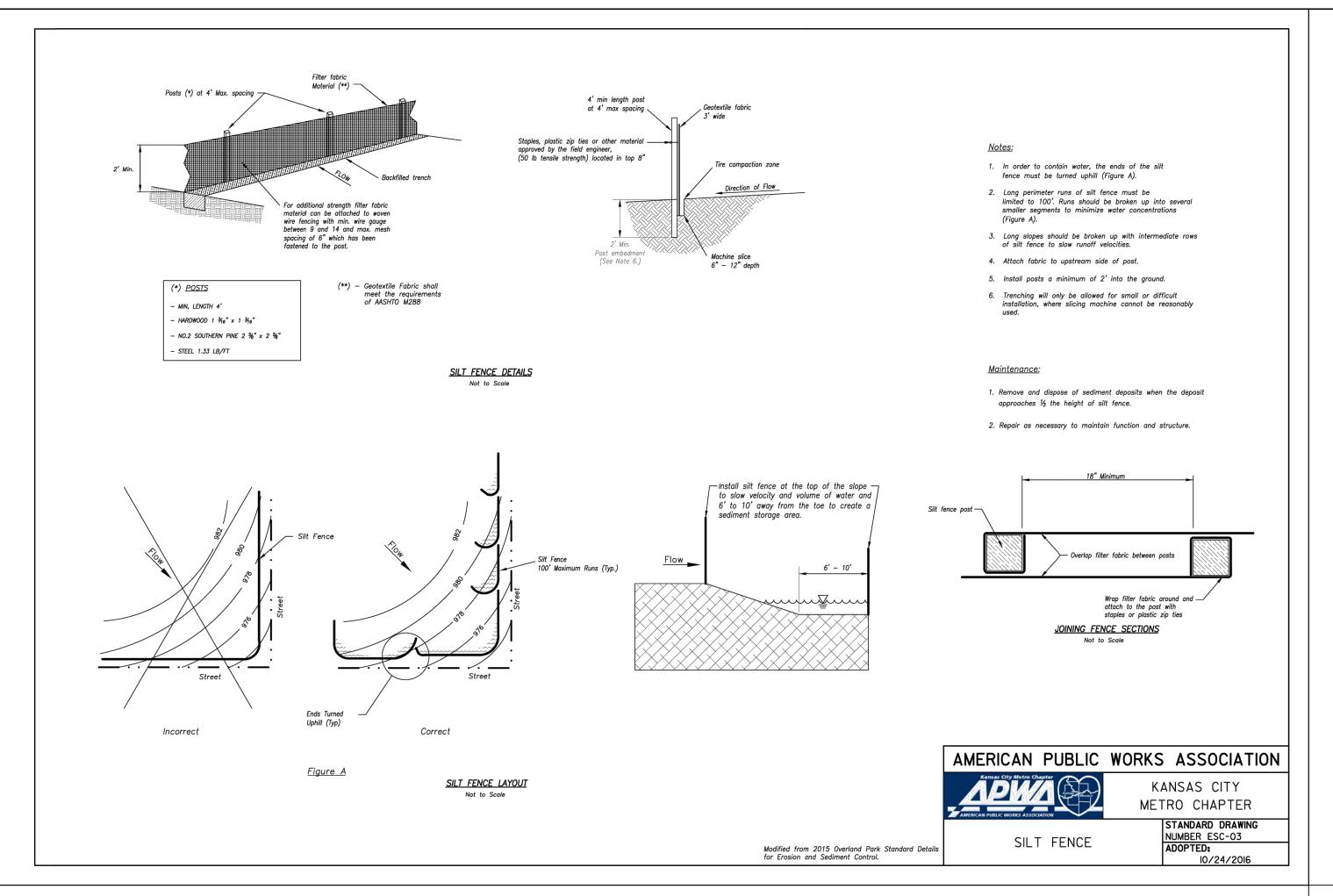
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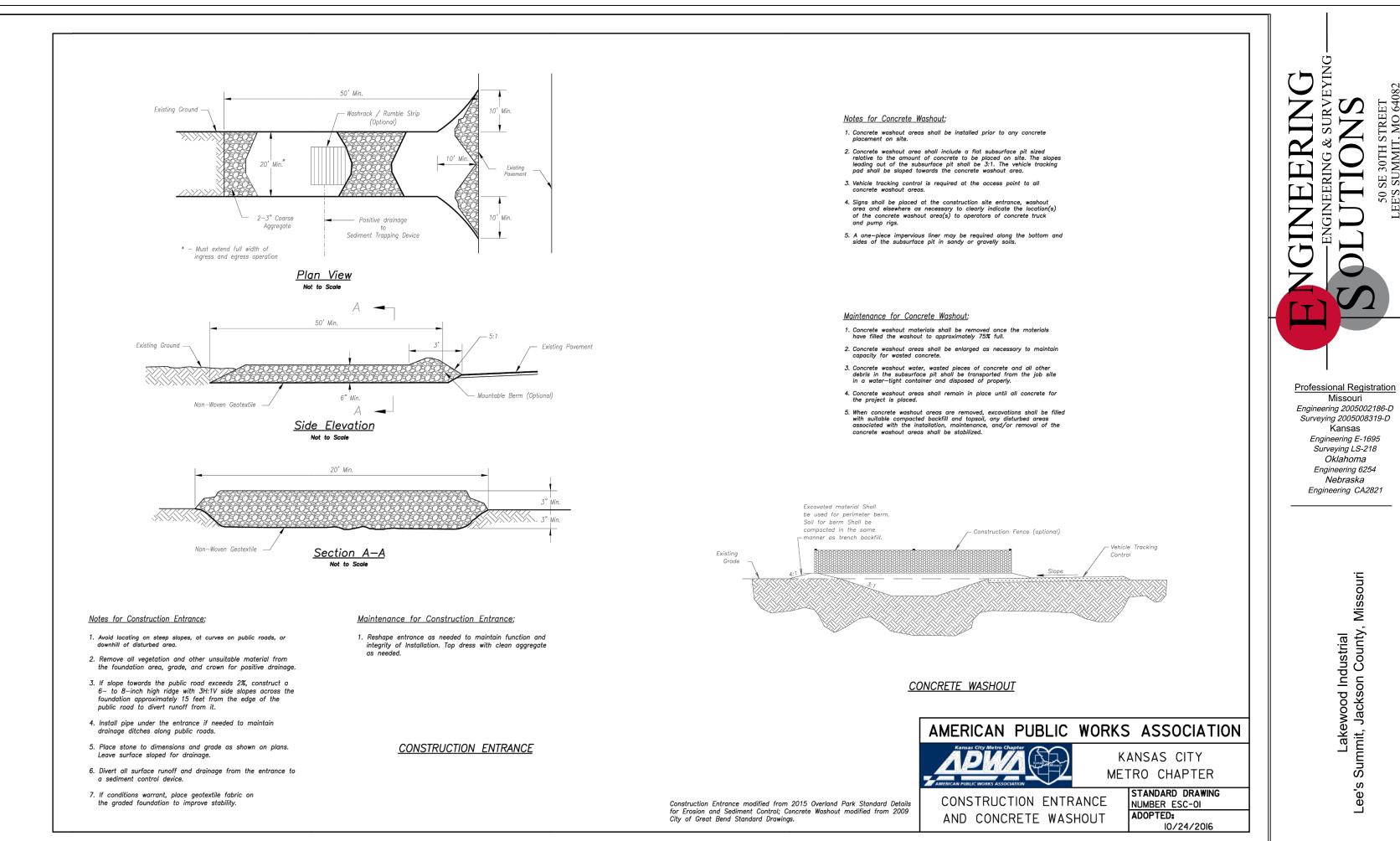
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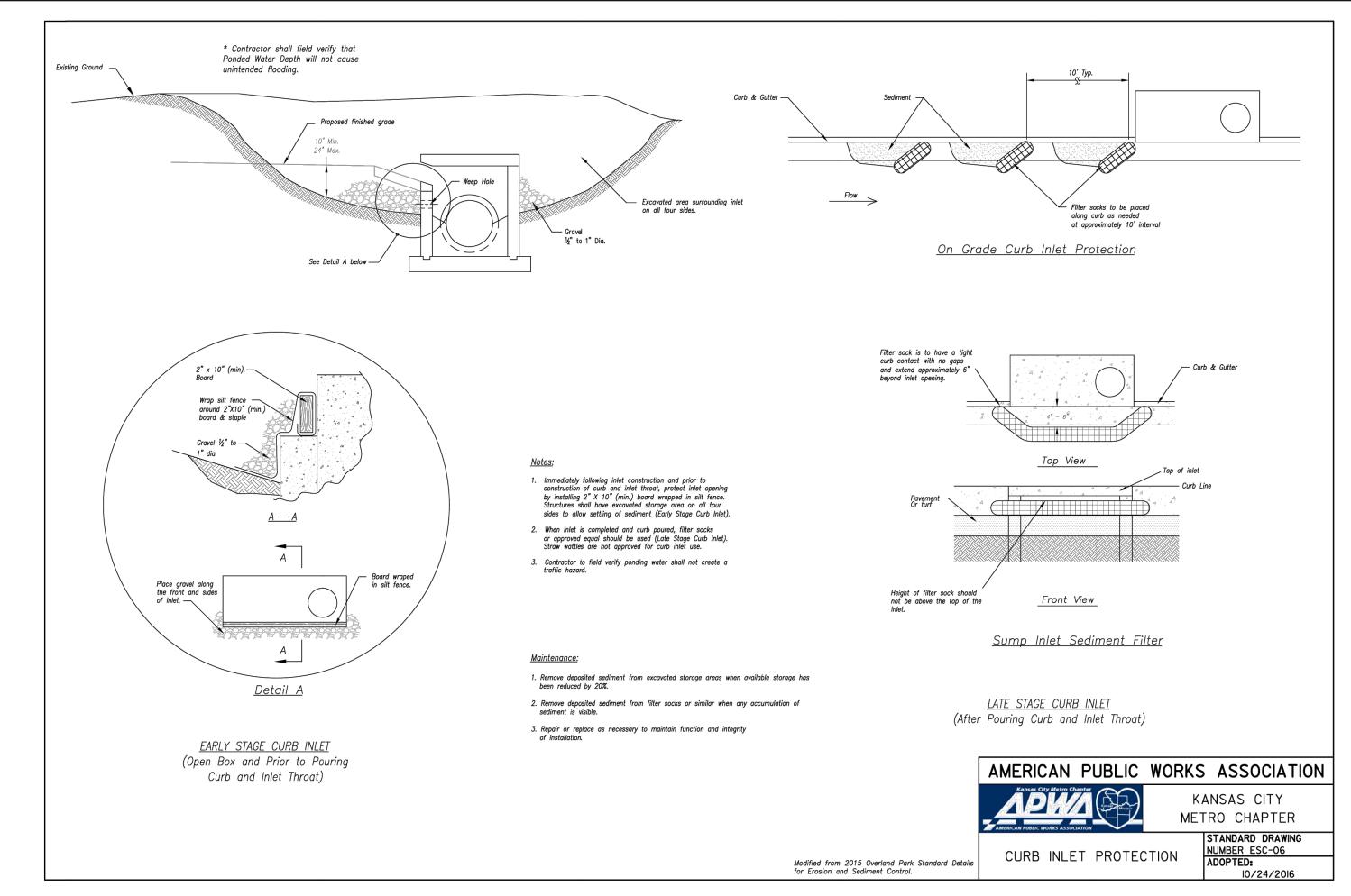
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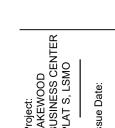
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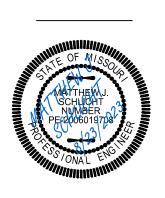
Kansas

Engineering E-1695 Surveying LS-218 Oklahoma Engineering 6254

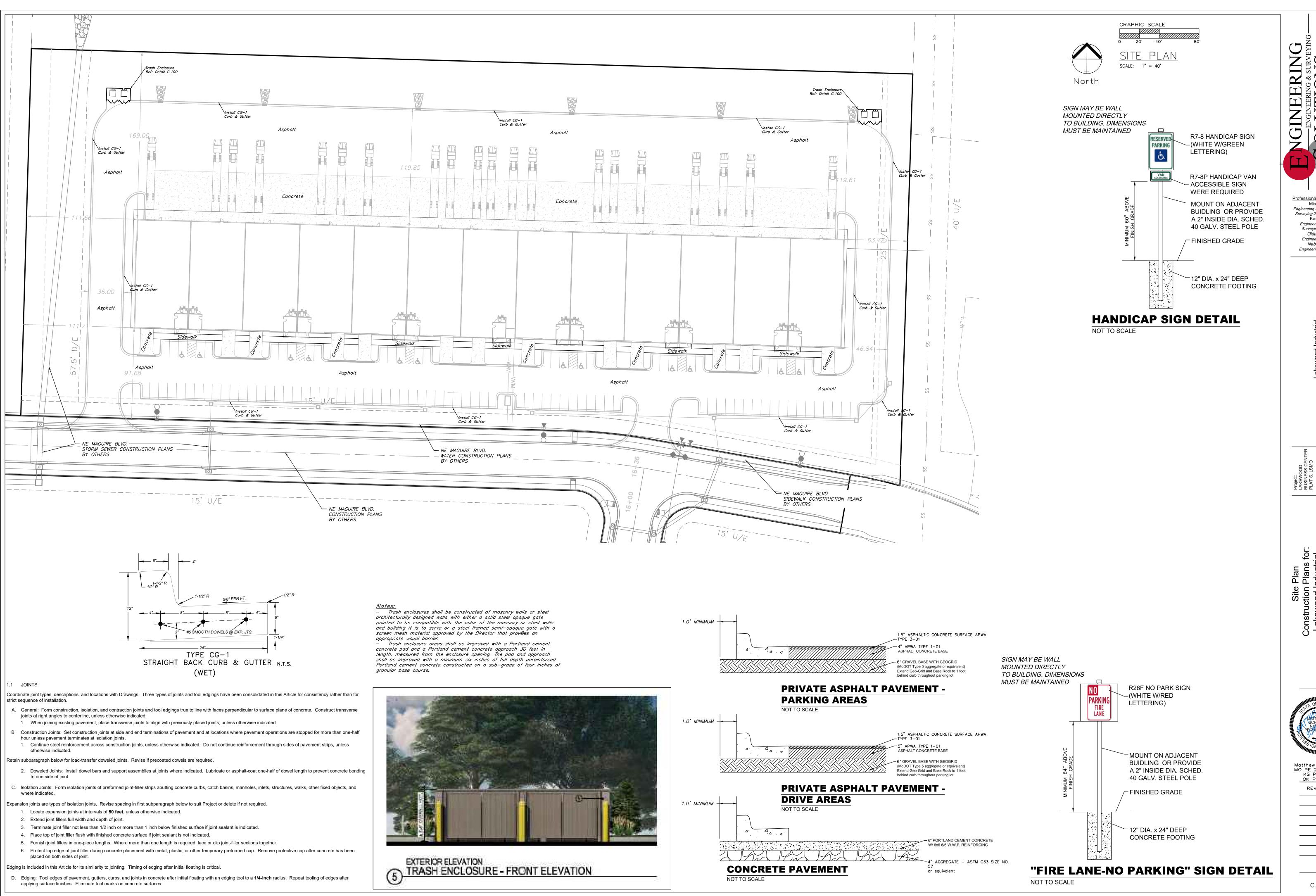
Nebraska

Engineering CA2821

SC — Standard Details
Construction Plans for:
Lakewood Industrial
Summit, Jackson County, Miss



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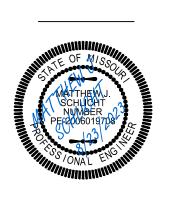
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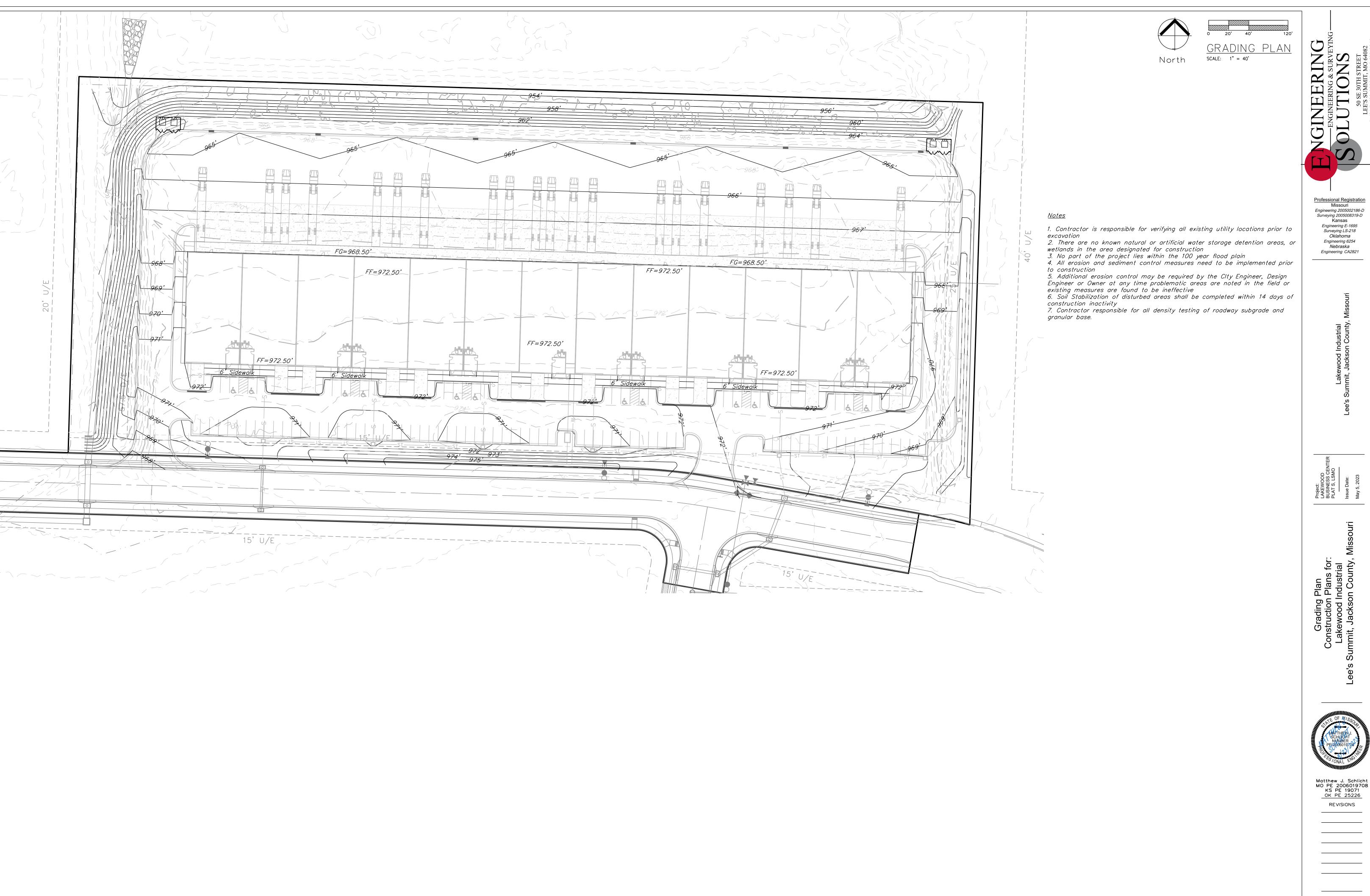
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Surveying 2005008319-D
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Engineering CA2821

Project:
LAKEWOOD
BUSINESS CENT
PLAT S, LSMO
Issue Date:
May 5, 2023



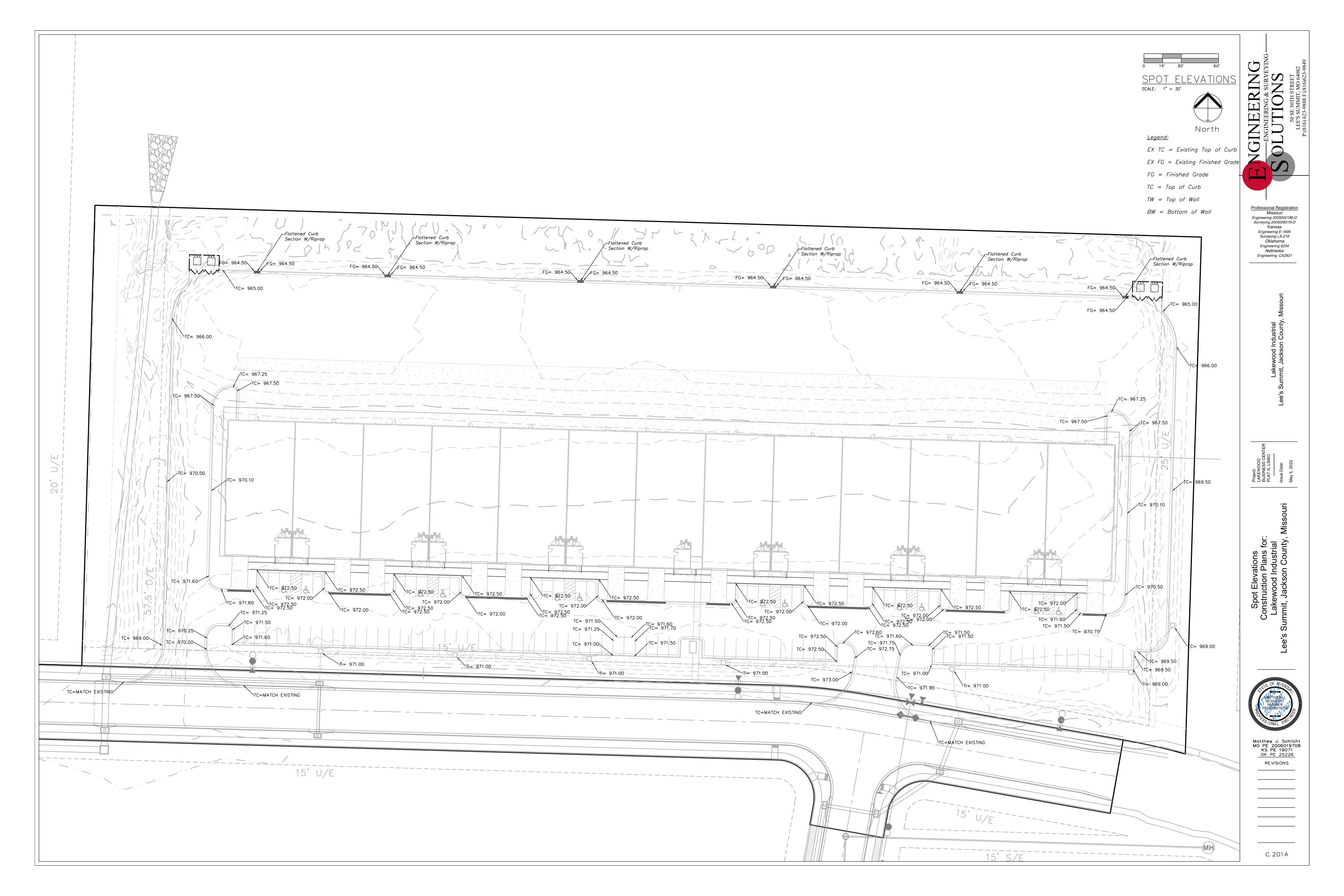
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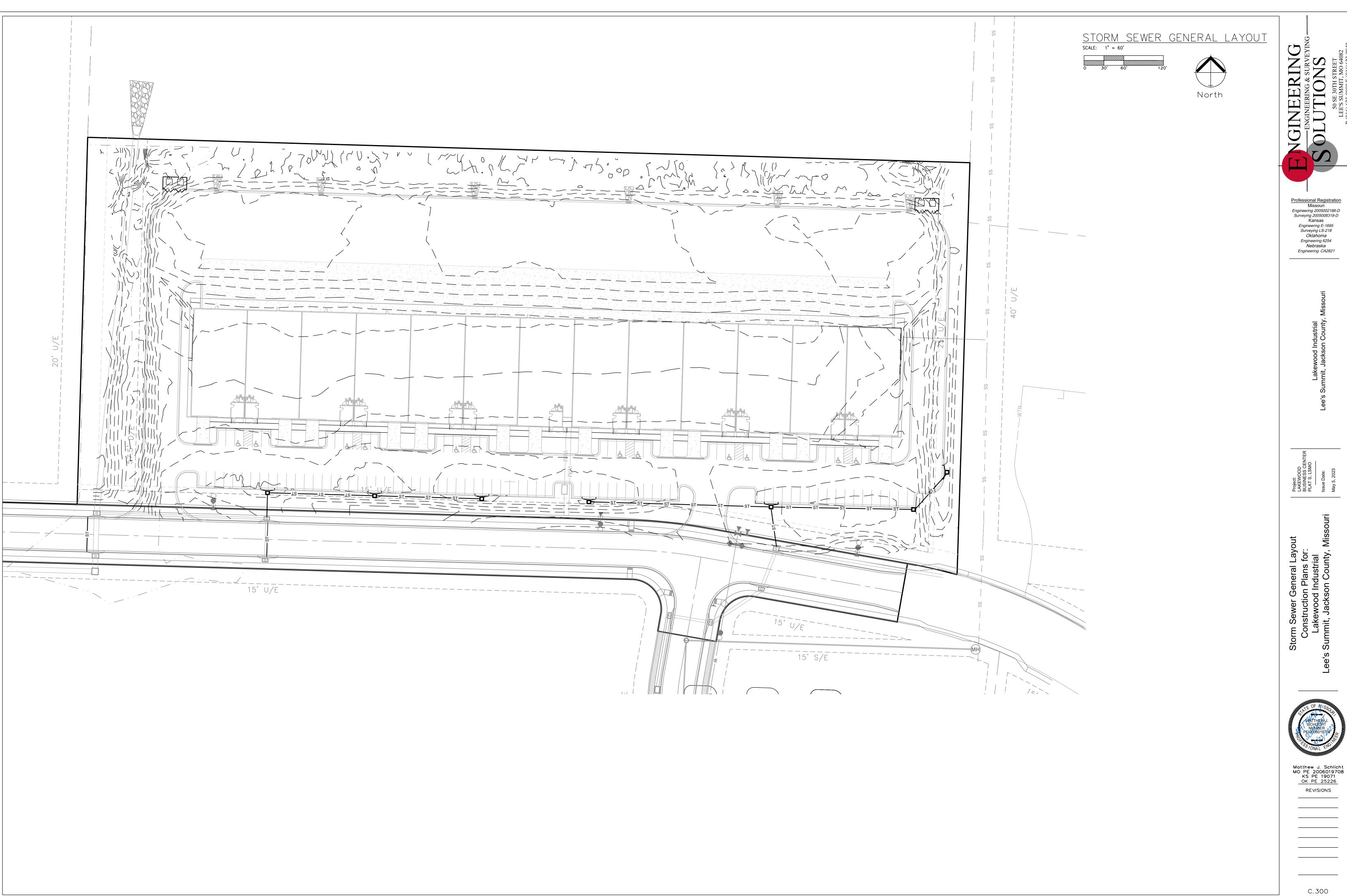


Engineering CA2821



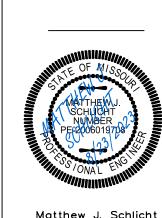
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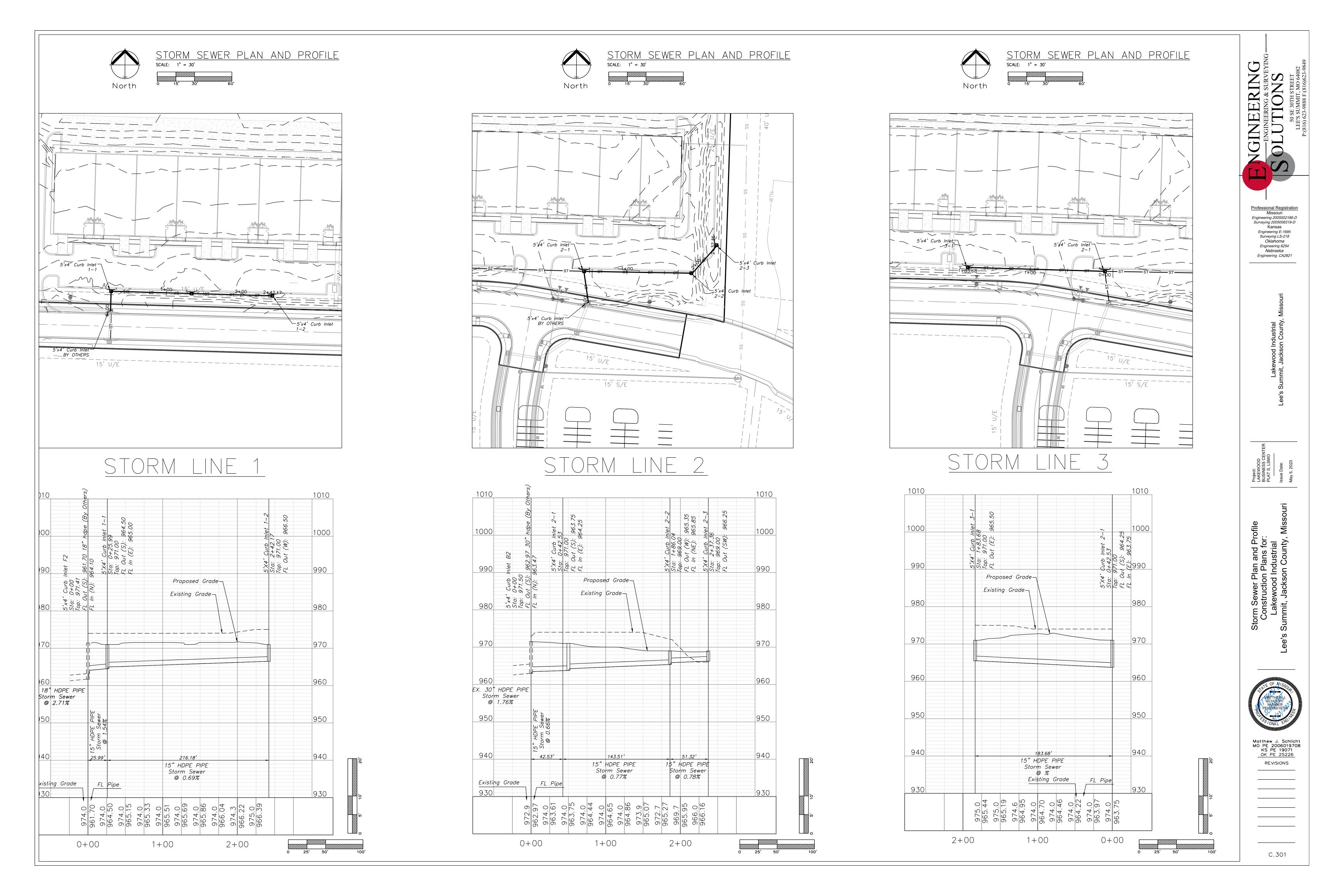


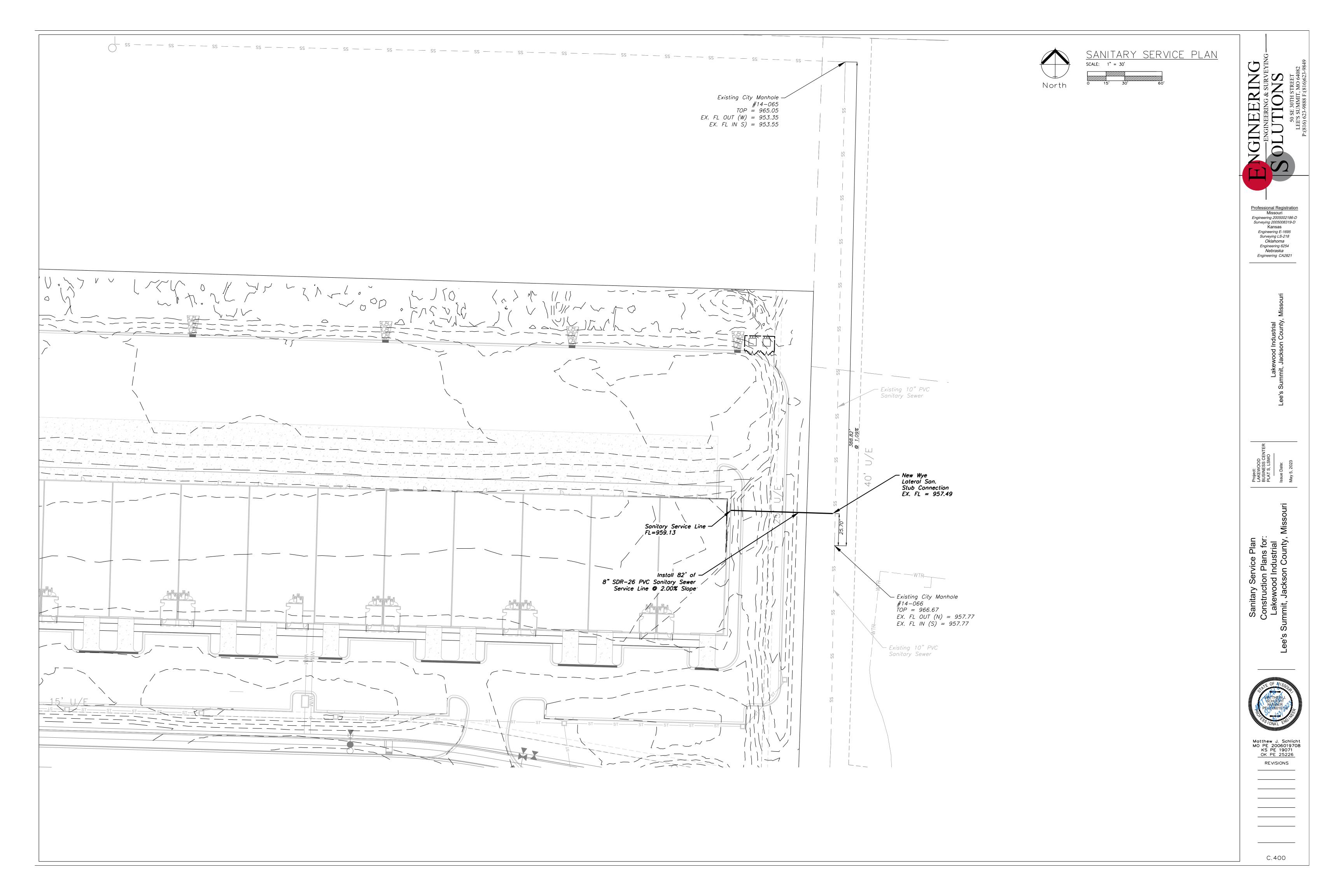
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Project: LAKEWO BUSINES PLAT S, I



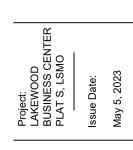
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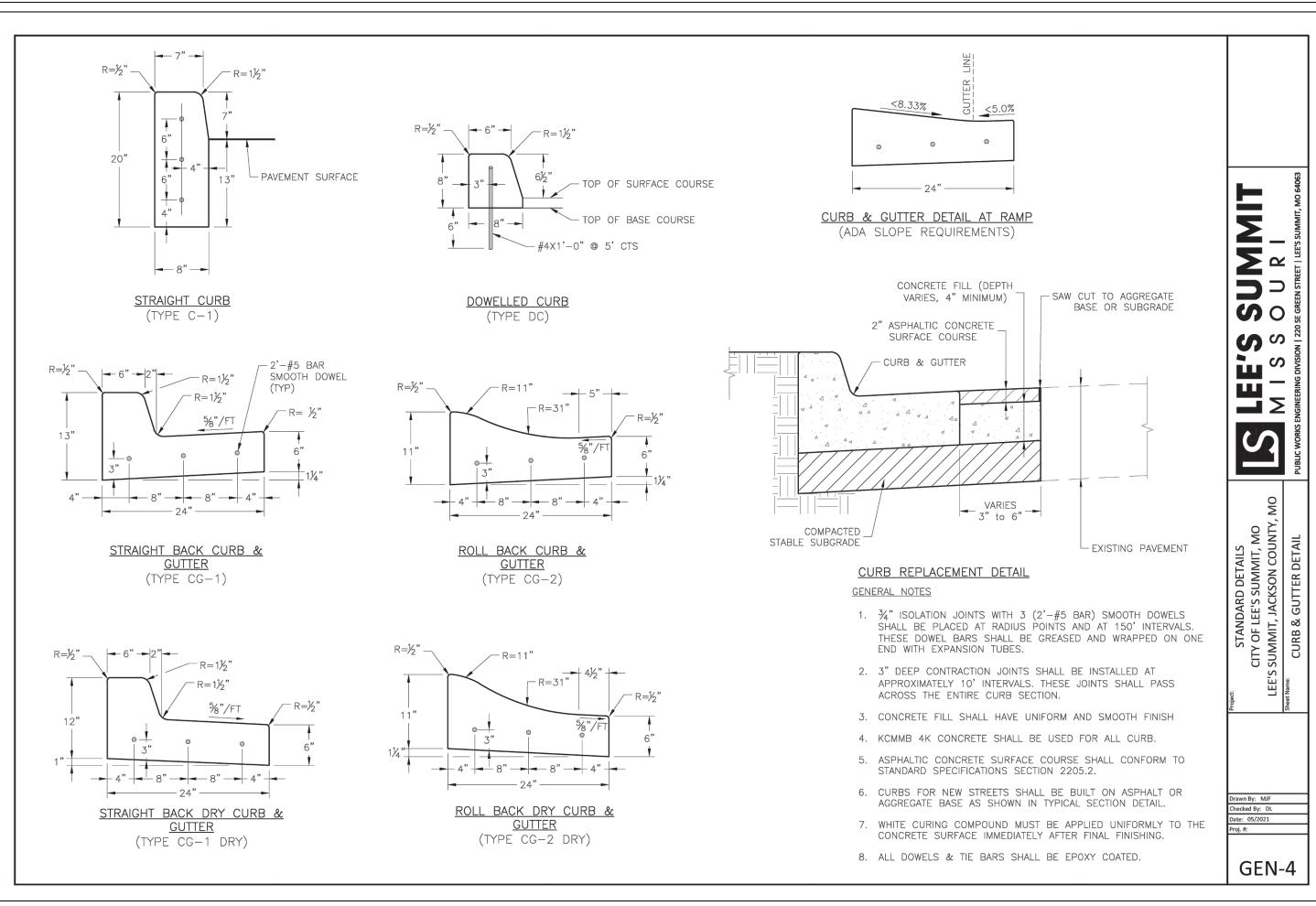


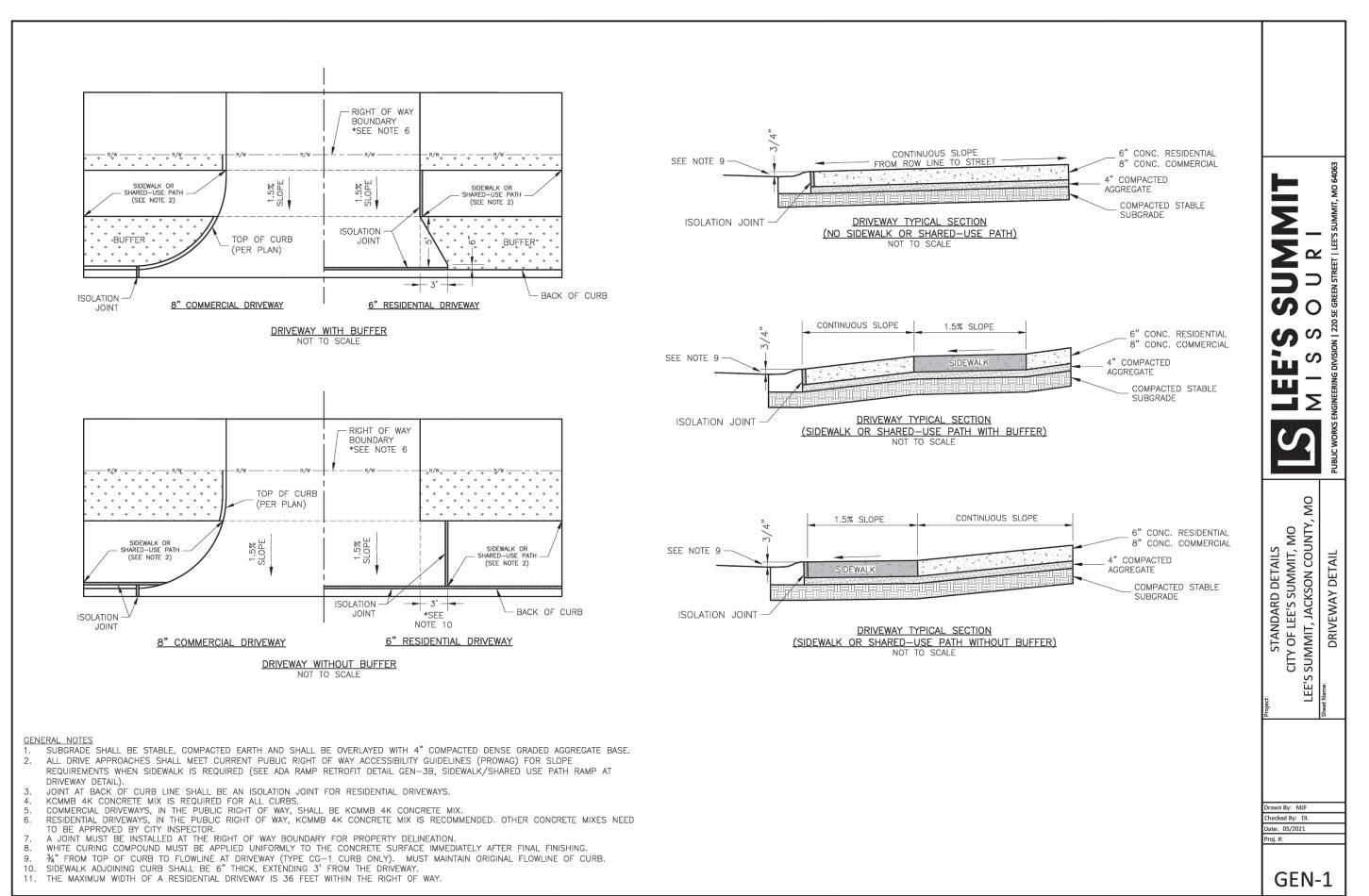
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#### **SECTION 2104 BACKFILL DETAILS**

Figure 1 PAVEMENT MINIMUM 2" IN EARTH (MINIMUM) -6" IN ROCK (MINIMUM) ALL CULVERT TYPES

A- Consolidated granular bedding material.

B- Granular bedding material or Flowable Backfill (CLSM).

C – Compacted Embankment - 2102.6. Lift thickness shall not exceed the capability of the equipment being utilized to achieve the proper density and consolidation, and in no case shall a lift exceed twelve inches for soil. The minimum width, W, shall be two feet wider than the width of the required compaction device, or five feet, whichever is greater.

D – Compacted Subgrade - Subgrade thickness shall be as specified in Table 1 of Section 5206 and as directed by the Engineer. Subgrade preparation shall be done in accordance with Section 2201 and shall consist of aggregate for base course, stabilized subgrade, or compacted soil – in accordance with the associated Sections 2201, 2202, and 2203.

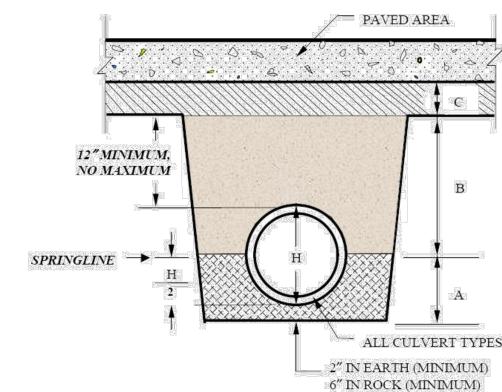
(Deep Sewer Lines Using Earth Compaction Equipment, or in Depths Exceeding 30" of Cover)

American Public Works Association Feburary 2017 Kansas City Metropolitan Chapter Rev. May 2019

#### Figure 2

The following cross-sectional view of typical storm sewer trench construction under street, alley pavements, and entrances Figure 2, shall apply to all storm sewer backfill areas where deep trenches are not widened to allow heavy roadway compaction equipment. Figure 2 shall also apply to shallow (30" to 18" from top of pipe to bottom of pavement) roadway trenches:

#### Backfilling shall be placed as shown in Figure 2.



A- Consolidated granular bedding material.

B- Granular bedding material, hand compacted soil - 95% of max. density using ASTM D 698, or Flowable Backfill (CLSM). Maximum lift thickness 6". Granular bedding material shall be used in Zone B for all pipe except reinforced concrete pipe.

C – Compacted Subgrade - Subgrade thickness shall be as specified in Table 1 of Section 5206 and as directed by the Engineer. Subgrade preparation shall be done in accordance with Section 2201 and shall consist of aggregate for base course, stabilized subgrade, or compacted soil – in accordance with the associated Sections 2201, 2202, and 2203.

(For Deep Trenches Without Roadway Compaction Equipment, or Shallow Trenches Having Less than 30" of Cover)

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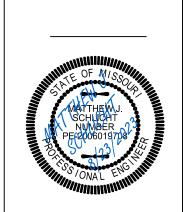
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—4" KCMMB 4K MIX (SIDEWALK)

PROVIDE TOOLED JOINTS @ 5'-0" O.C.

-4" AGGREGATE - ASTM C33 SIZE NO. 57

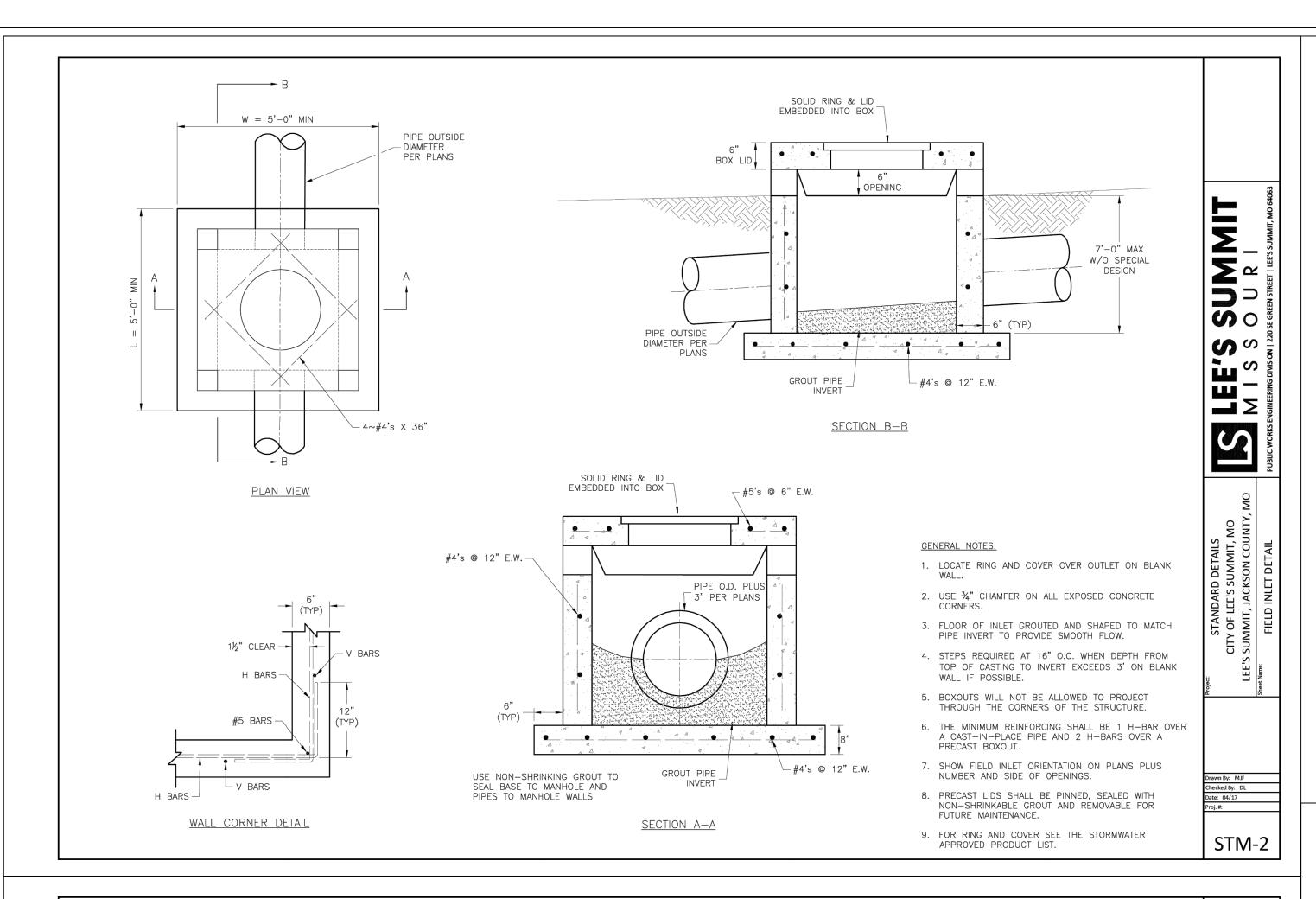
SIDEWALK DETAIL

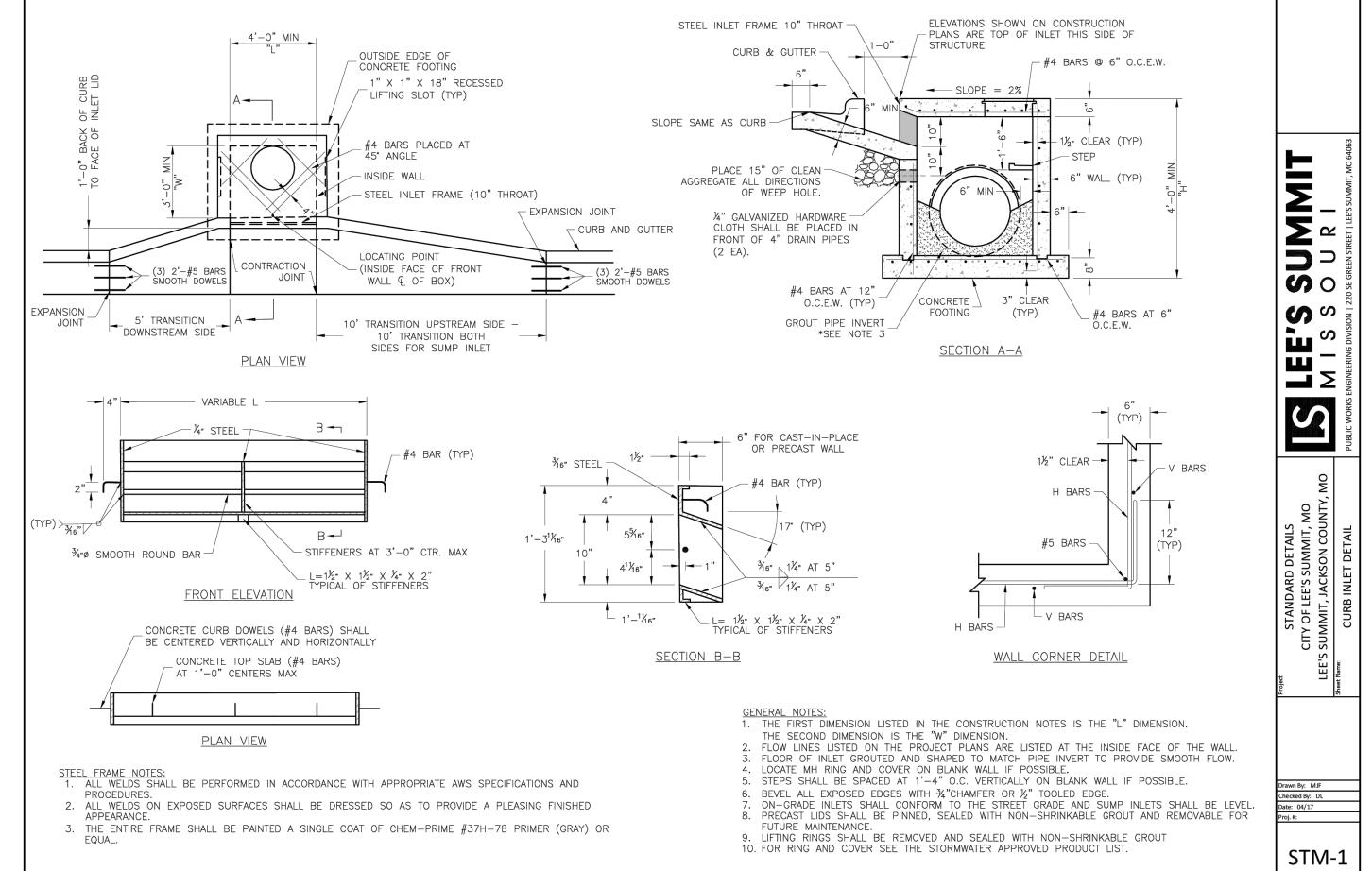
MAX. 1.5% SLOPE -

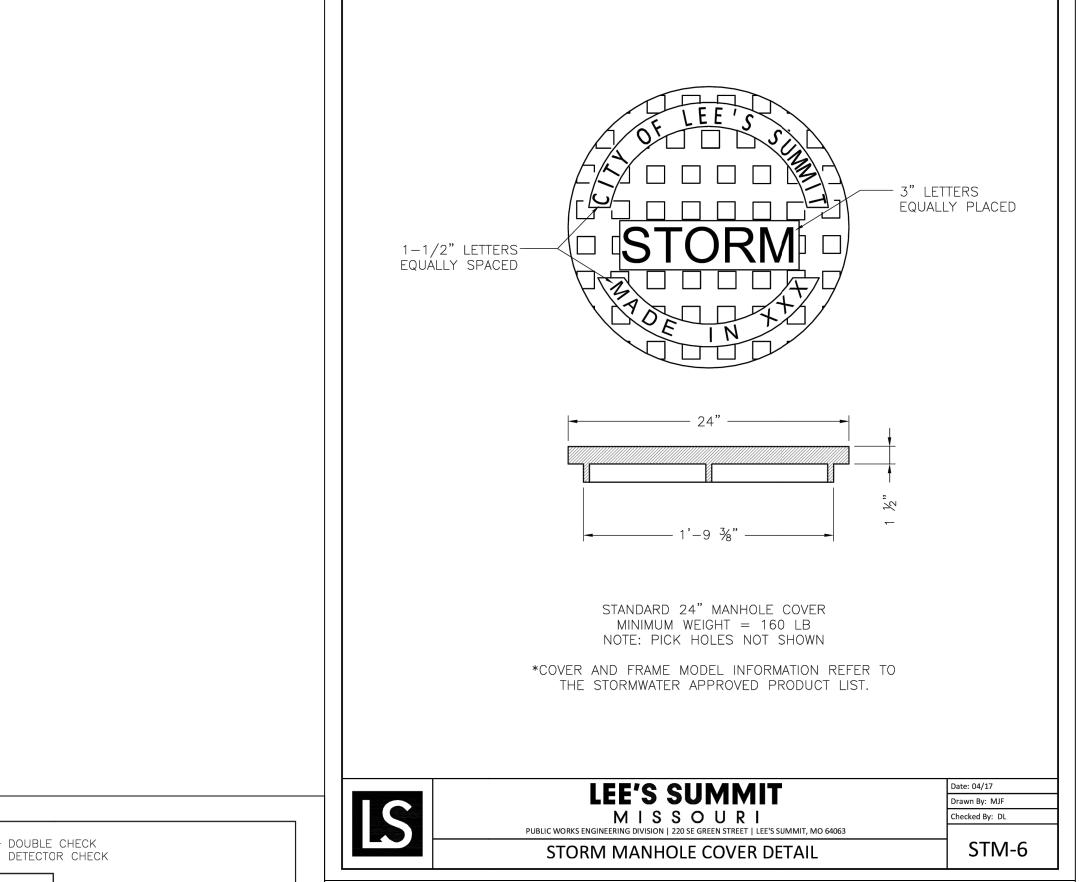
NOT TO SCALE

-SOIL SCARIFIED TO A NOMINAL DEPTH OF 6" 95% OF MATERIAL'S MAXIMUM STANDARD PROCTOR **GENERAL NOTE:** 

1 ~ ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.







PUBLIC PRIVATE

STEPS

✓ VARIES —

SECTION A-A NOT TO SCALE

METER VAULT TO BE LOCATED, WHEN POSSIBLE, OUTSIDE TRAFFIC AREA WHERE SURFACE WATER WILL NOT DRAIN INTO IT. VAULT MUST BE KEPT FREE OF WATER. PROVIDE CONCRETE SUMP AS A MINIMUM. WHERE PRACTICAL,

4. ALL PIPE SHALL BE DUCTILE IRON CLASS 50. ALL PIPE FITTINGS FROM THE CITY WATER MAIN THROUGH THE VAULT

6. STEPS SHALL BE IN ACCORDANCE WITH THE APPROVED PRODUCTS LIST FOR WATER UTILITIES AND SHALL BE ON 16"

7. A DEPARTMENT OF NATURAL RESOURCES APPROVED DOUBLE CHECK DETECTOR CHECK BACKFLOW PREVENTER MUST

DNR REQUIRES FIRE SPRINKLER SYSTEMS USING CHEMICALS TO HAVE A DNR APPROVED PRESSURE BACKFLOW

9. FOR MANHOLE COVERS, SELECT A MANHOLE FOUND ON THE APPROVED PRODUCTS LIST FOR WATER UTILITIES

**LEE'S SUMMIT** 

MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

VAULT FOR DOUBLE CHECK DETECTOR CHECK

A MINIMUM OF 18" CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING, VALVES, APPURTENANCES, ETC.

IF PUBLIC WATER IS LOCATED ON THE OPPOSITE SIDE OF THE STREET, THEN THE PUBLIC WATER MAIN

RESPONSIBILITY OF THE WATER UTILITIES DEPARTMENT ENDS AT THE GATE VALVE NEAREST THE VAULT.

BE USED. FOR A COPY OF THE MISSOURI DEPARTMENT OF NATURAL RESOURCES APPROVED BACKFLOW PREVENTION

ASSEMBLIES. CONTACT THE WATER UTILITIES OPERATIONS DIVISION AT 816-969-1940. AS OF JANUARY 1, 1987, THE

PROVIDE A 2" PIPE DRAIN WITH AN ABOVE-GROUND DISCHARGE POINT. PROJECT OWNER MAY DESIRE A PERMANENTLY

METER VAULT ROOF TO BE REINFORCED CONCRETE OPENING CENTERED OVER DETECTOR METER.

SEE NOTE 6

REINFORCED CONCRETE SLAB

REINFORCED CONCRETE FLOOR

SLOPE TO DRAIN

- PRIVATE FIRE

PROTECTION LINE

rawn By: JN

Checked By: DL

8" MIN. IN TRAFFIC

4" MIN. NON-TRAFFIC

GATE VALVE -SEE NOTE 12

18" X 18" GRATE REFER TO THE APPROVED PRODUCTS LIST

FINISHED GRADE TO —

GATE VALVE (TYP.) -

SEE NOTE 3

CONCRETE BLOCKS -

FOR METER SUPPORT

METER VAULT WALLS TO BE POURED OR PRECAST CONCRETE.

SHALL BE PROVIDED WITH RESTRAINED JOINT FITTINGS.

PREVENTER INSTALLED, PRIOR TO THE MIXING POINT.

SUITABLE FOR EITHER TRAFFIC OR NON-TRAFFIC CONDITIONS.

METER SHALL BE OWNED AND MAINTAINED BY THE WATER UTILITIES DEPARTMENT.

8. ALL VALVES SHALL HAVE RISING STEMS.

MATCH TOP OF VAULT

CAST IRON

VALVE BOX

STOP COCK/GATE

VALVE OPENING LEFT

**GENERAL NOTES:** 

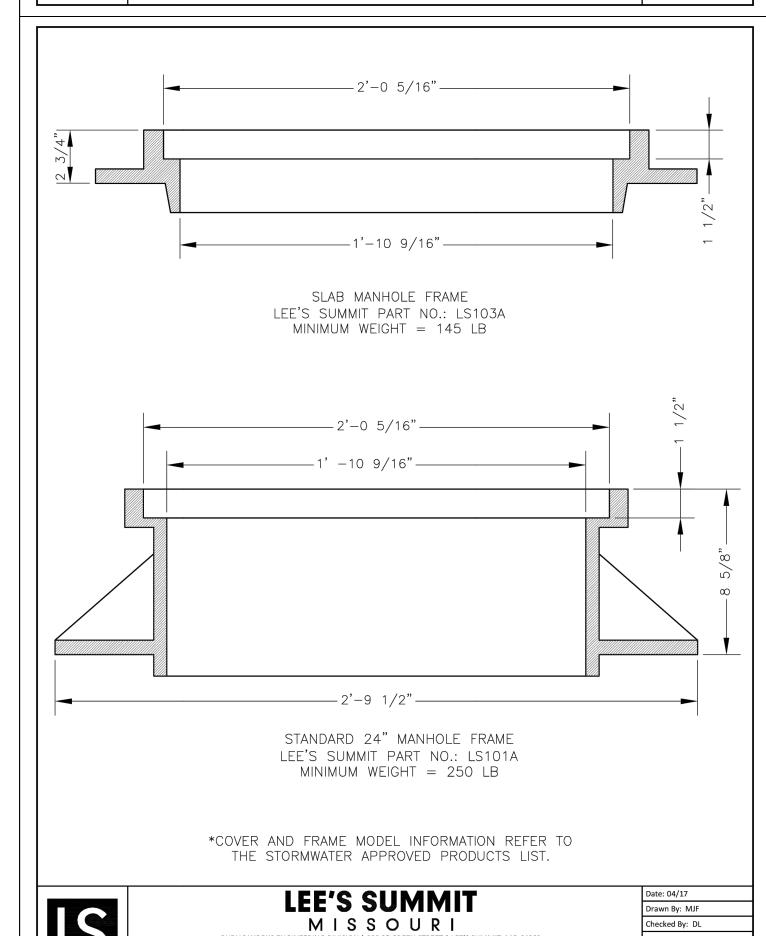
INSTALLED SUMP PUMP

5. ALL FITTINGS TO BE BRASS.

FOR WATER UTILITIES

DETECTOR METER ----

SEE NOTE 9 ----





1 ~ ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.

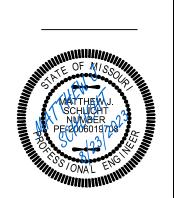
STORM MANHOLE FRAME DETAIL



Lakewood Indus Lee's Summit, Jackson Cc

Project:
LAKEWOOD
BUSINESS CENTER
PLAT S, LSMO
Issue Date:
May 5, 2023

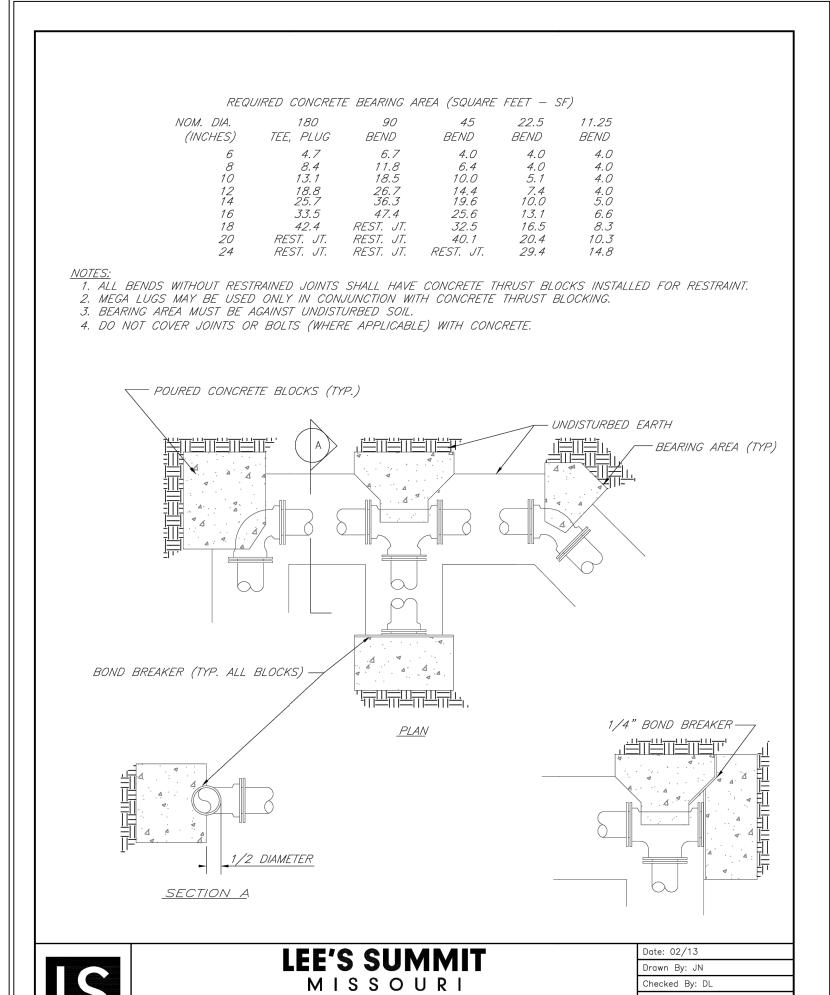
Standard Details Construction Plans for: Lakewood Industrial Summit, Jackson County, Missou



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STM-7

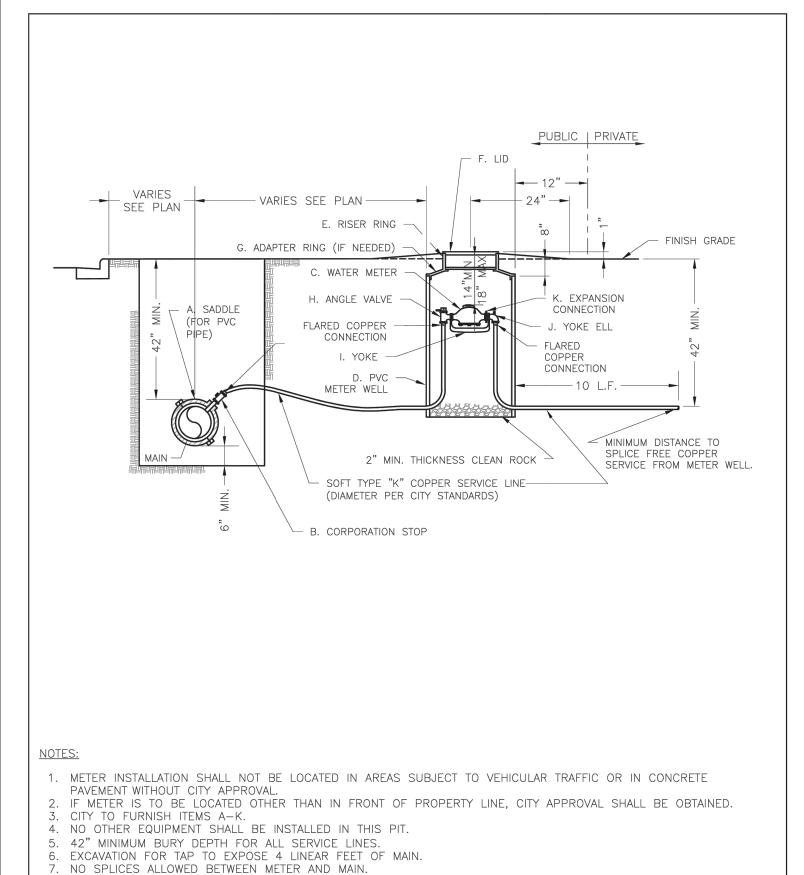
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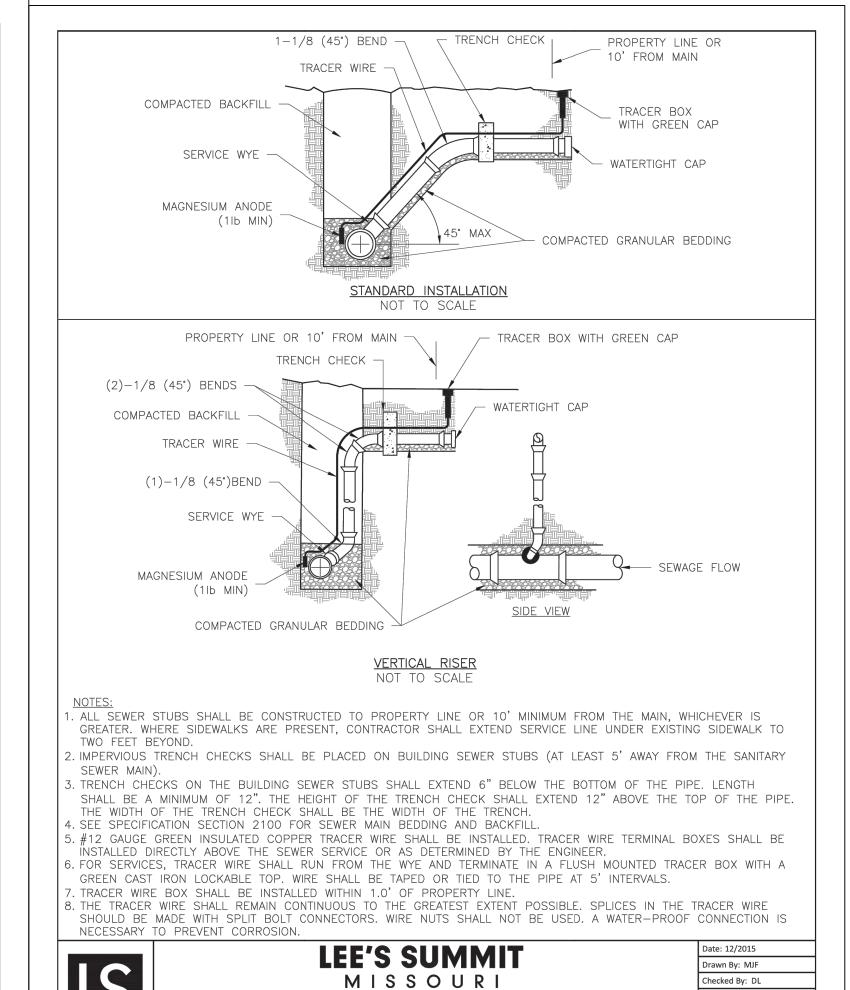
HORIZONTAL THRUST BLOCKS

FILE: WAT-1

Rev: 1/14



8. SERVICE CONNECTION TAP AT APPROXIMATELY 45 DEGREES.
9 LID AND RISER RING SHALL BE SET SO THAT GROUND WATER WILL DRAIN AWAY FROM THE WELL. 10. CONTACT WATER UTILITIES, 816-969-1900, FOR REQUIREMENTS OF A METER LARGER THAN 2" **LEE'S SUMMIT** MISSOURI hecked By: DL WAT-11 SERVICE CONNECTION WITH METER WELL



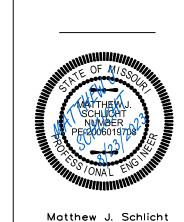
SANITARY SEWER STUB DETAIL

SAN-1

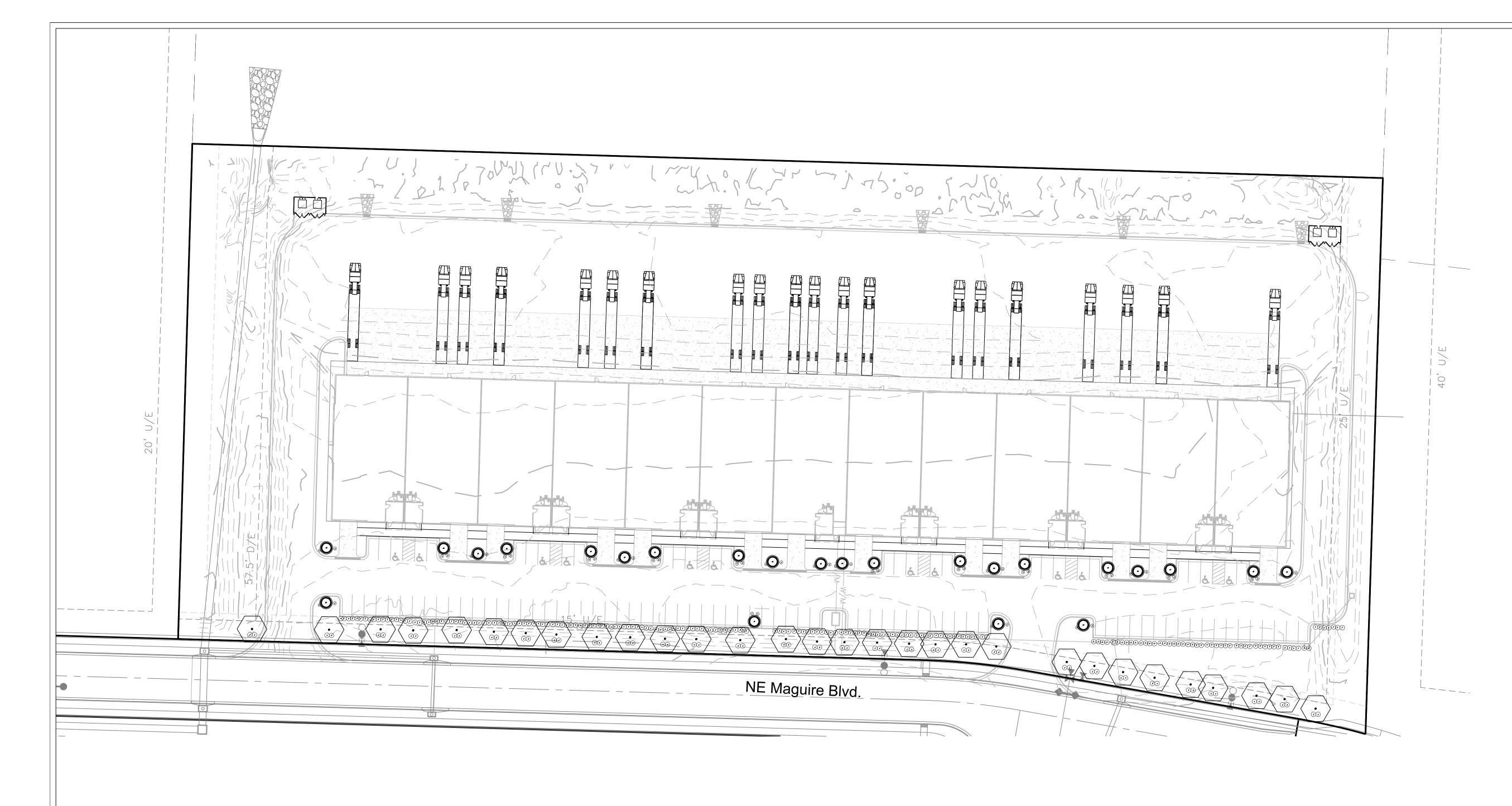


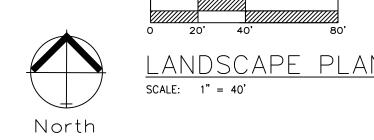
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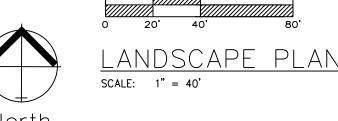
Standard Details Construction Plans for: Lakewood Industrial ummit, Jackson County, N



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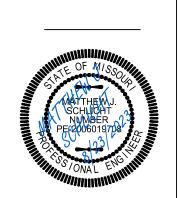


	ORDINANCE REQUIREMENT	REQUIRED FOR THIS SITE	PROPOSED LANDSCAPE
14.090.A.I Street Frontage Trees (NE Maguire Blvd.)	1 tree per 30 feet of street frontage	890 ft. of street frontage /30= 30 trees required	30 Trees Provided
14.090.A.3 Street Frontage Shrubs (NE Maguire Blvd.)	1 shrub per 20 feet of street frontage	890 ft. of street frontage /20= 45 shrubs required	60 shrubs provided
14.090.B.I Open Yard Shrubs	2 shrubs per 5000 sq. ft. of total lot area, excludes single family and duplex developments, excluding building and parking.	335,238 sq. ft. of total lot area minus 231,200 sq.ft. of bldg. & parking= 104,038 sq.ft. /5,000 x 2 = 42 shrubs	48 shrubs
14.090.B.3 Open Yard Trees	1 tree per 5000 sq. ft. of total lot area excluding building and parking.	335,238 sq. ft. of total lot area minus 231,200 sq. ft. of bldg. & parking= 104,038 sq. ft./5,000 = 21 trees	24 Provided
14.110. Parking Lot Landscape	5% of entire parking area (spaces, aisles &: drives); 1 Island at end of every parking bay, min. 9' wide	153,162 sq. ft. of parking area x .05 = 7,658 sq. ft. of landscape parking lot islands required	7,700 sq. ft.
14.120 Screening of Parking Lot, Road	12 shrubs per 40 linear feet (must be 2.5 feet tall; berms may be combined with shrubs)	632 linear feet/40 x 12 190 shrubs required.	190 shrubs provided

## PLANTING SCHEDULE:

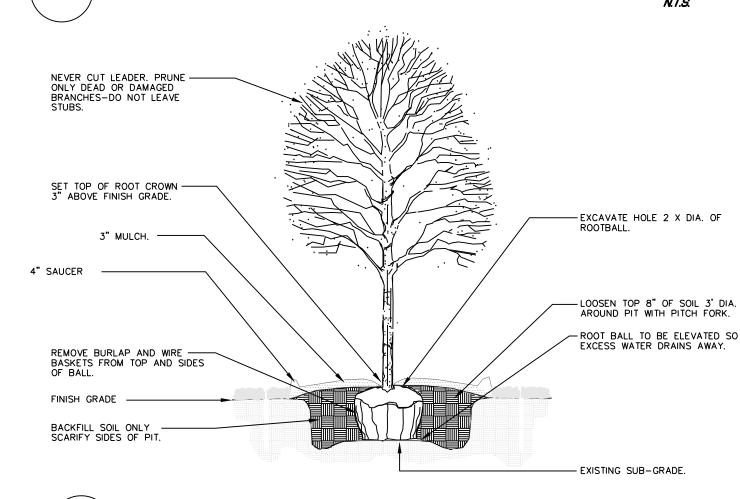
IS FOR PHASE 1 ONLY. AT FULL BUILD THE UNIFIED DEVELOPMENT ORDINANCE REQUIREMENTS SHALL BE MEET.					
	SYMBOL	QUANT.	KEY	NAME	SIZE
tree	$\bigcirc$	30	TA	AMERICAN BASSWOOD LINDEN TILIA AMERICANA	3.0" CAL.
evergr	reen 🕠		SR	SKYROCKET JUNIPER JUNIPERUS SCOPULORUM "SKYROCKET"	8' Ht.
tree	0	24	RB	OKLAHOMA REDBUD CERCIS RENIFORMIS "OKLAHOMA"	3.0" CAL.
shrub	•	298	BB	BURNING BUSH EUONYMUS ALATA "COMPACTUS"	2 Gallon Pot

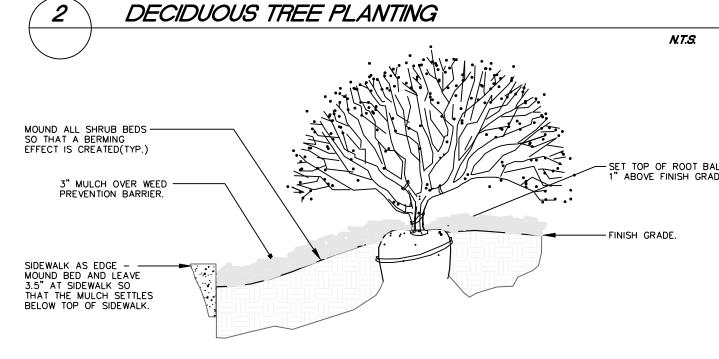
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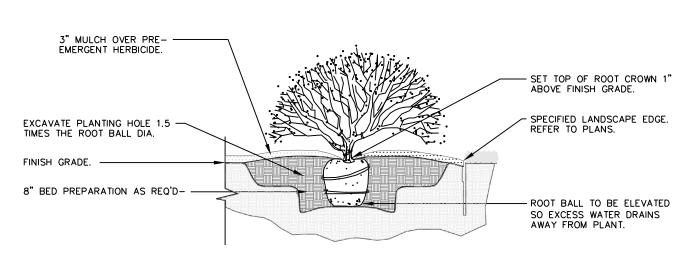


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L.100







SIDEWALK EDGE AT PLANT BED



# GENERAL LANDSCAPE NOTES: PLANT MATERIAL

1. ALL PLANT MATERIAL SHALL BE FIRST CLASS REPRESENTATIVES OF SPECIFIED SPECIES, VARIETY OR CULTIVAR, IN HEALTHY CONDITION WITH NORMAL WELL DEVELOPED BRANCHES AND ROOT PATTERNS. PLANT MATERIAL MUST BE FREE OF OBJECTIONABLE FEATURES. PLANTS SHALL COMPLY IN ALL APPLICABLE RESPECTS WITH PROPER STANDARDS AS SET FORTH IN THE AMERICAN ASSOCIATION OF NURSERYMEN'S "AMERICAN STANDARD OF NURSERY STOCK", ANSI Z60.1-2004.

2. SHRUBS SHALL BE CONTAINER GROWN AND WILL BE FREE OF DISEASE AND PESTS. NO BARE ROOT. ALL PLANT BEDS TO BE MULCHED TO A DEPTH OF 3" WITH DARK BROWN, HARDWOOD MULCH. PLANTING BEDS ARE TO BE FREE OF WEEDS AND GRASS. TREAT BEDS WITH A PRE-EMERGENT HERBICIDE PRIOR TO PLANTING AND MULCH PLACEMENT. APPLY IN ACCORDANCE WITH STANDARD TRADE PRACTICE.

3. HOLE AREA FOR TREE TO BE TWICE (2x) THE DIAMETER OF THE ROOT BALL AND ROOT BALL SHALL BE SLIGHTLY MOUNDED FOR WATER RUN-OFF.

4. ALL PLANT MATERIALS SHALL BE PROTECTED FROM THE DRYING ACTION OF THE SUN AND WIND AFTER

4. ALL PLANT MATERIALS SHALL BE PROTECTED FROM THE DRING ACTION OF THE SUN AND WIND AFTER BEING DUG, WHILE BEING TRANSPORTED, AND WHILE AWAITING PLANTING. BALLS OF PLANTS WHICH CANNOT BE PLANTED IMMEDIATELY SHALL BE PROTECTED FROM DRYING ACTION BY COVERING THEM WITH MOIST MULCH. PERIODICALLY, APPLY WATER TO MULCH—COVERED BALLS TO KEEP MOIST. IF PLANTING SHOULD OCCUR DURING GROWING SEASON, APPLY ANTI—DESICCANT TO LEAVES BEFORE TRANSPORT TO REDUCE THE LIKELIHOOD OF WINDBURN. REAPPLY ANTI—DESICCANT AFTER PLANTING TO REDUCE TRANSPIRATION. REMOVE TWINE AND BURLAP FROM ROOT BALLS. SOIL ON TOP OF CONTAINERIZED OR BALLED PLANTS IS TO BE REMOVED UNTIL ALL PLANTS ROOT FLARES ARE EXPOSED. THIS IS THE NATIVE SOIL LINE AT WHICH PLANTING DEPTHS SHOULD BE MEASURED.

5. AFTER PLANTING IS COMPLETED, PRUNE MINIMALLY TO REMOVE DEAD OR INJURED TWIGS AND BRANCHES.

5. AFTER PLANTING IS COMPLETED, PRUNE MINIMALLY TO REMOVE DEAD OR INJURED TWIGS AND BRANCHES. PRUNE IN SUCH A MANNER AS NOT TO CHANGE THE NATURAL HABIT OR SHAPE OF THE PLANT. MAKE CUTS BACK TO BRANCH COLLAR, NOT FLUSH. DO NOT PAINT ANY CUTS WITH WITH TREE PAINT. CENTRAL LEADERS SHALL NOT BE REMOVED.

6. GUARANTEE TREES, SHRUBS, GROUND COVER PLANTS FOR ONE CALENDAR YEAR FOLLOWING PROVISIONAL ACCEPTANCE OF THE OVERALL PROJECT. DURING THE GUARANTEE PERIOD, PLANTS THAT DIE DUE TO NATURAL CAUSES OR THAT ARE UNHEALTHY OR UNSIGHTLY IN CONDITION, SHALL BE REPLACED BY THE CONTRACTOR.

#### LAWN AND TURF AREAS

7. ALL LAWN AREAS TO BE SODDED AS SHOWN ON PLANS. SOD SHALL COMPLY WITH US DEPT. OF AGRICULTURE RULES AND REGULATIONS UNDER THE FEDERAL SEED ACT AND EQUAL IN QUALITY TO STANDARDS FOR CERTIFIED SEED. SOD SHALL BE HEALTHY, THICK TURF HAVING UNDERGONE A PROGRAM OF REGULAR FERTILIZING, MOWING AND WEED CONTROL. SEED AND SOD SHALL BE A TURF-TYPE TALL FESCUE (3 WAY) BLEND. SEED BLEND SHALL CONSIST OF THE FOLLOWING:

TURF-TYPE TALL FESCUE 90% KENTUCKY BLUEGRASS 10%

8. ALL SODDED AREAS ARE TO BE MULCHED WITH STRAW OR HYDROMULCH AT TIME OF INSTALLATION UNTIL SOD HAS ESTABLISHED.

#### INSTALLATION

9. THE INSTALLATION OF ALL PLANT MATERIALS SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT, MO. AND LANDSCAPE INDUSTRY STANDARDS.

10. ALL LANDSCAPE AREAS TO BE FREE OF ALL BUILDING DEBRIS AND TRASH, BACK FILLED WITH CLEAN FILL

SOIL AND TOP DRESSED WITH 4" OF TOPSOIL. TOPSOIL SHALL HAVE A PH RANGE OF 5.5 TO 7 AND A 4% ORGANIC MATERIAL MINIMUM, ASTM D5268.

11. PLANT BEDS TO BE "MOUNDED". ALL PLANT MATERIAL, PLANT BEDS, MULCH AND DUG EDGE ARE TO BE INSTALLED PER LANDSCAPE PLANS, DETAILS, AND MANUFACTURER'S RECOMMENDATIONS.

12. REESTABLISH FINISH GRADES TO WITHIN ALLOWABLE TOLERANCES ALLOWING 3/4" FOR SOD AND 3" FOR MULCH IN PLANT BEDS. HAND RAKE ALL AREAS TO SMOOTH EVEN SURFACES FREE OF DEBRIS, CLODS, ROCKS, AND VEGETATIVE MATTER GREATER THAN 1".

13. ALL PLANT BEDS, SHRUBS AND TREES SHALL BE MULCHED WITH 3" OF DARK BROWN, HARDWOOD MULCH, EXCEPT IF NOTED AS ROCK. DARK BROWN, HARDWOOD MULCH SHALL BE INSTALLED OVER DEWITT PRO 5 WEED CONTROL FABRIC IN PLANT BEDS ONLY.

14. CONTRACTOR IS RESPONSIBLE FOR INITIAL WATERING UPON INSTALLATION.

15. DUG EDGES ARE TO BE DUG WHERE MULCH BEDS ARE ADJACENT TO TURF AREAS. NO EDGING IS REQUIRED AD LACENT TO PAYEMENT OR CURR

16. THE EXACT LOCATION OF ALL UTILITIES, STRUCTURES, AND UNDERGROUND UTILITIES SHALL BE DETERMINED AND VERIFIED ON SITE BY THE LANDSCAPE CONTRACTOR PRIOR TO INSTALLATION OF THE MATERIALS. DAMAGE TO EXISTING UTILITIES AND OR STRUCTURES SHALL BE REPLACED TO THEIR ORIGINAL CONDITION BY THE LANDSCAPE CONTRACTOR AT NO COST TO THE OWNER.

17. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS AND APPROVALS AND REQ'D INSPECTIONS BY LEGAL AUTHORITIES.

18. PROVISIONS SHALL BE MADE FOR READILY ACCESSIBLE IRRIGATION WITHIN 100' MAX. OF ALL LANDSCAPED AREAS INCLUDING ALL PLANT BEDS, INDIVIDUAL TREES, AND TURF AREAS. ALL LAWN AREAS (AS SHOWN ON PLANS) WILL BE IRRIGATED BY AN AUTOMATIC SYSTEM. THE LANDSCAPE CONTRACTOR IS

PLANS) WILL BE IRRIGATED BY AN AUTOMATIC SPRINKLER SYSTEM. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL IRRIGATION COMPONENTS, SLEEVING, PIPE AND CONTROL. DESIGN DRAWINGS OF IRRIGATION SYSTEM SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

19. ANY SUBSTITUTIONS OR DEVIATIONS SHALL BE REQUESTED IN WRITING BY THE CONTRACTOR FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF PLANT MATERIALS. ALL PLANTS ARE TO BE LOCATED AS SPECIFIED ON DRAWINGS.

#### MAINTENANCE BY OWNER

N.T.S.

N.T.S.

20. ALL SHRUBS ARE TO BE MAINTAINED IN THEIR NATURAL SHAPE TO ALLOW EVENTUAL GROWTH INTO A HEDGE.
21. MAINTAIN NATURAL HABIT OF ALL SPECIFIED PLANT MATERIAL.

22. NEW SOD TO BE THOROUGHLY WATERED UNTIL ROOTS "TAKE HOLD" OF SOD BED. CONTINUE WATERING AS REQUIRED, UNTIL COMPLETELY ESTABISHED.

#### IRRIGATION PERFORMANCE SPECIFICATION:

- THE FOLLOWING CRITERIA SHALL BE CONSIDERED MINIMUM STANDARDS FOR DESIGN AND INSTALLATIONOF LANDSCAPE IRRIGATION SYSTEM:
- GENERAL IRRIGATION SYSTEM TO INCLUDE DRIP IRTRIGATION OF SHRUB BEDS ADJACENT TO BUILDINGS, SPRAY HEADS IN THE PARKING ISLANDS, AND ROTORS AROUND THE PERIMETER OF THE PARKING LOTS. HEADS SHALL THROW AWAY FROM BUILDING AND ACOID SPRAYING OVER SIDEWALKS.
- 2. IRRIGATION SYSTEM SHALL CONFORM TO ALL INDUSTRY STANDARDS AND ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING DESIGN AND INSTALLATION.
- 3. WATERLINE TYPW, SIZE LOCATION, PRESSURE AND FLOW SHALL BE FIELD VERIFIED PRIOR TO SYSTEM DESIGN AND INSTALLATION.
- 4. ALL MATERIALS SHALL BE FROM NEW STOCK FREE OF DEFECTS AND CARRY A MINIMUM ONE YEAR WARRANTY FROM THE DATE OF SUBSTANTIAL COMPLETION.
- 5. THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED IN SUCH A WAY THAT ALL SYSTEM COMPONENTS OPERATE WITHIN THE GUIDELINES ESTABLISHED BY THE MANUFACTURER.
- 6. LAWN AREA AND SHRUB BEDS SHALLBE ON SEPARATE CIRCUITS.
- 7. PROVIDE WATER TAP, METER SET, METER VAULT AND ALL OTHER OPERATIONS NECESSARY TO PROVIDE WATER FOR IRRIGATION SHALL CONFORM TO LOCAL WATER GOVERNING AUTHORITY CUIDELINES AND STANDARDS.
- 8. BACKFLOW PREVENTION SHALL BE PROVIDED IN ACCORDANCE WITH STATE AND LOCAL REQULATIONS.
- 9. IRRIGATION CONTROLLER TO BE LOCATED IN UTILITY ROOM INSIDE BUILDING, AS IDENTIFIED BY OWNER.
- 10. IRRIGATION CONTROLLER STATIONS SHALL BE LABELED TO CORRESPOND WITH THE CIRCUIT IT CONTROLS.
- 11. CONTRACTOR SHALL PROVIDE TO THE OWNER WRITTEN OPERATION INFORMATION FOR ALL SYSTEM COMPONENTS.
- 12. CONTRACTOR SHALL PROVIDE O THE OWNER ALL KEYS, ACCESS TOOLS, WRENCHES AND ADJUSTING TOOLS NECESSARY TO GAIN ACCESS, ADJUST AND CONTROL THE SYSTEM.
- 13. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- 15. INSTALL SCHEDULE 40 PVC SLEEVES UNDER ALL CURBS, PAVING AND SIDEWALKS. SLEEVES TO BE TWICE THE SIZE OF THE LINE IT HOUSES.
- 16. INSTALL MANUAL DRAIN BALBES AT LOWEST POSSIBLE ELEVATION ON IRRIGATION MAIN TO ALLOW GRAVITY DRAINING OF MAIN DURING WINTER MONTHS. PROVIE QUICK COUPLERS AT MULTIPLE LOCATIONS TO ALLOW FOR EASY "BLOWING OUT" OF LATERAL AND MAIN
- 17. ZONES OR NOZZLES SHALL BE DESIGNED WITH MATCHED PRECIPITATION RATES.

14. AN AUTOMATIC RAIN SHUT-OFF OR MOISTURE DEVICE SHALL BE INSTALLED.

- 18. MINIMUM LATERAL DEPTH IS 15" AND MAIN DEPTH IS 18".
- 19. SUBMIT DESGN DRAWING WITH BID TO ALLOW OWNER TO EVALUATE SYSTEM. INCLUDE CUT SHEETS OF ALL COMPONENTS AND ZONE TABLE ILLUSTRATING FLOWS AND ANTICIPATED PRESSURE AT FURTHEST HEAD.
- 20. AN "AS-BUILT" SCALED DRAWING SHALL BE PROVIDED TO THE OWNER BY THE CONTRACTOR AND SHALL INCLUDE UT NOT BE LIMITED TO THE FOLLOWING:
- a. AS CONSTRUCTED LOCATION OF ALL COMPONENTS
- b. COMPONENT NAME, MANUFACTURER, MODEL INFORMATION, SIZE AND QUANTITYc. PIPE SIZE AND QUANTITY
- d. INDICATION OF SPRINKLER HEAD SPRAY PATTERN
- e. CIRCUIT IDENTIFICATION SYSTEM
- f. DETAILED METHOD OF WINTERIZED SYSTEM

SUBMIT AS-BUILT DRAWING IN FULL SIZE DRAWING FORM AS WELL AS PDF ELECTRONIC FORMAT. (SCANNING FULL SIZE COPY OF PLAN IS ACCEPTABLE IF IT CAN BE PRINTED TO SCALE.

HOGINEERING & SURVE ENGINEERING & SURVE SO SE 30TH STREET LEE'S SUMMIT, MO 640

Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Lakewood Industrial 's Summit, Jackson County, Missou

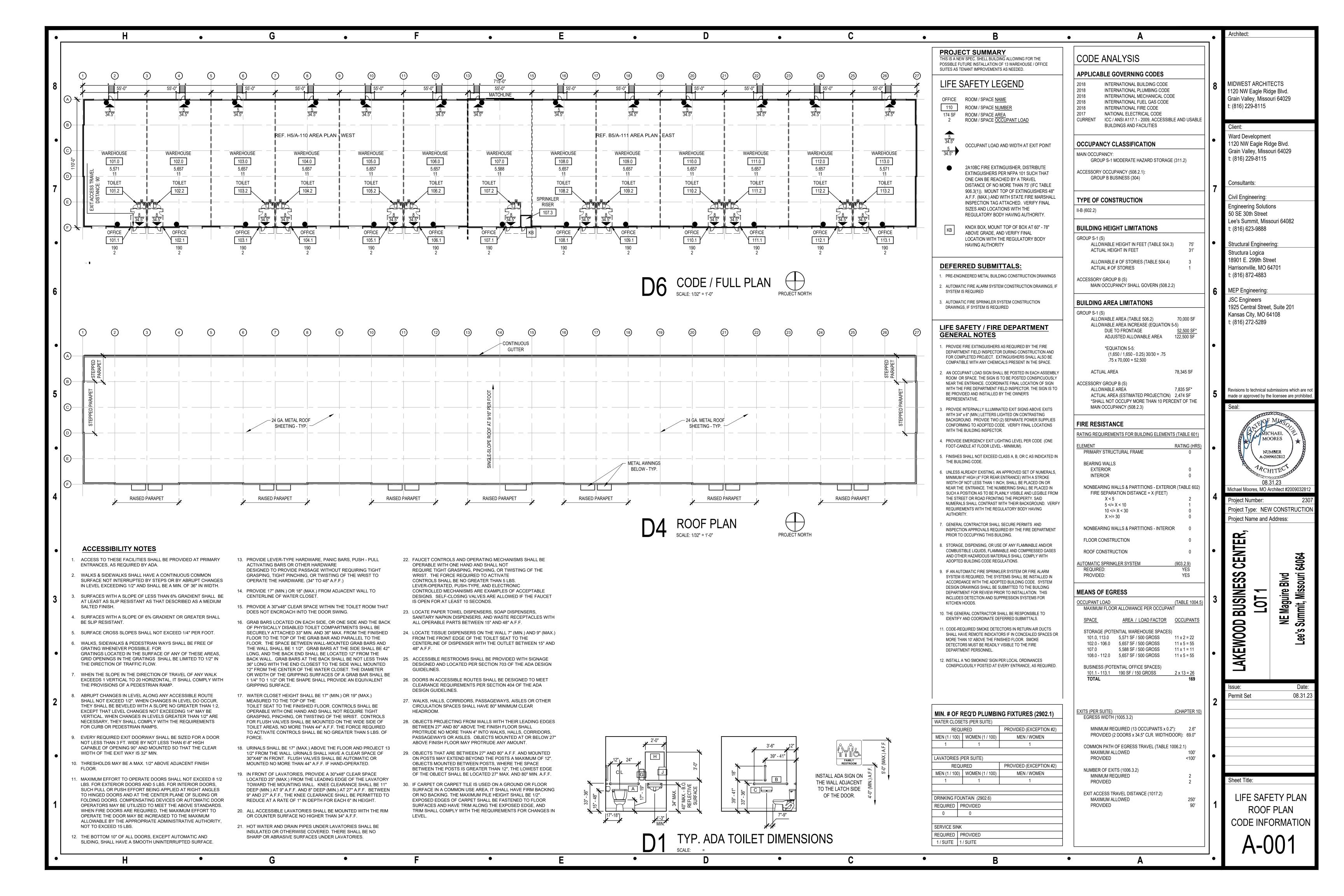
LANDSCAPE PLAN DETAILS
Construction Plans for:
Lakewood Industrial

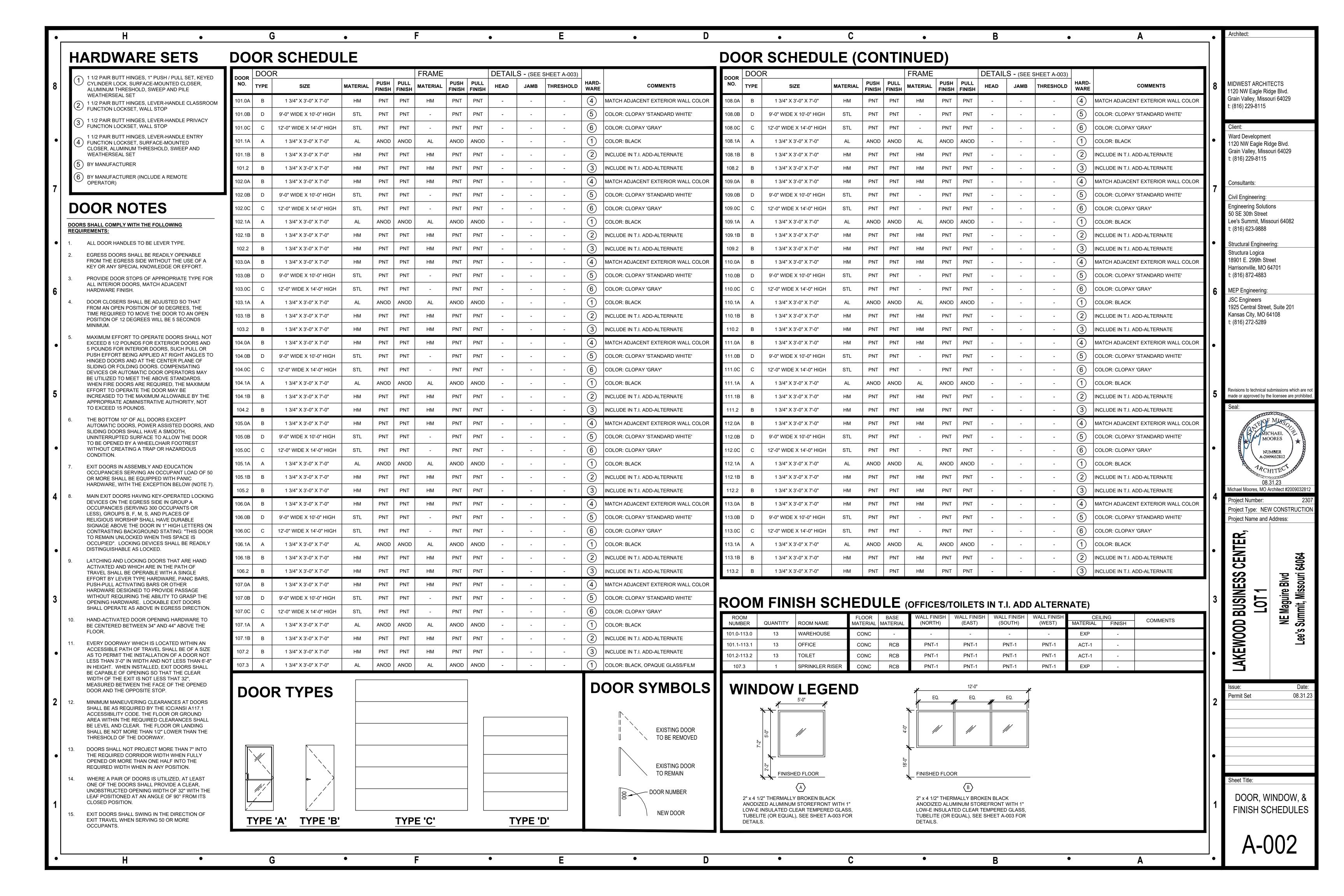


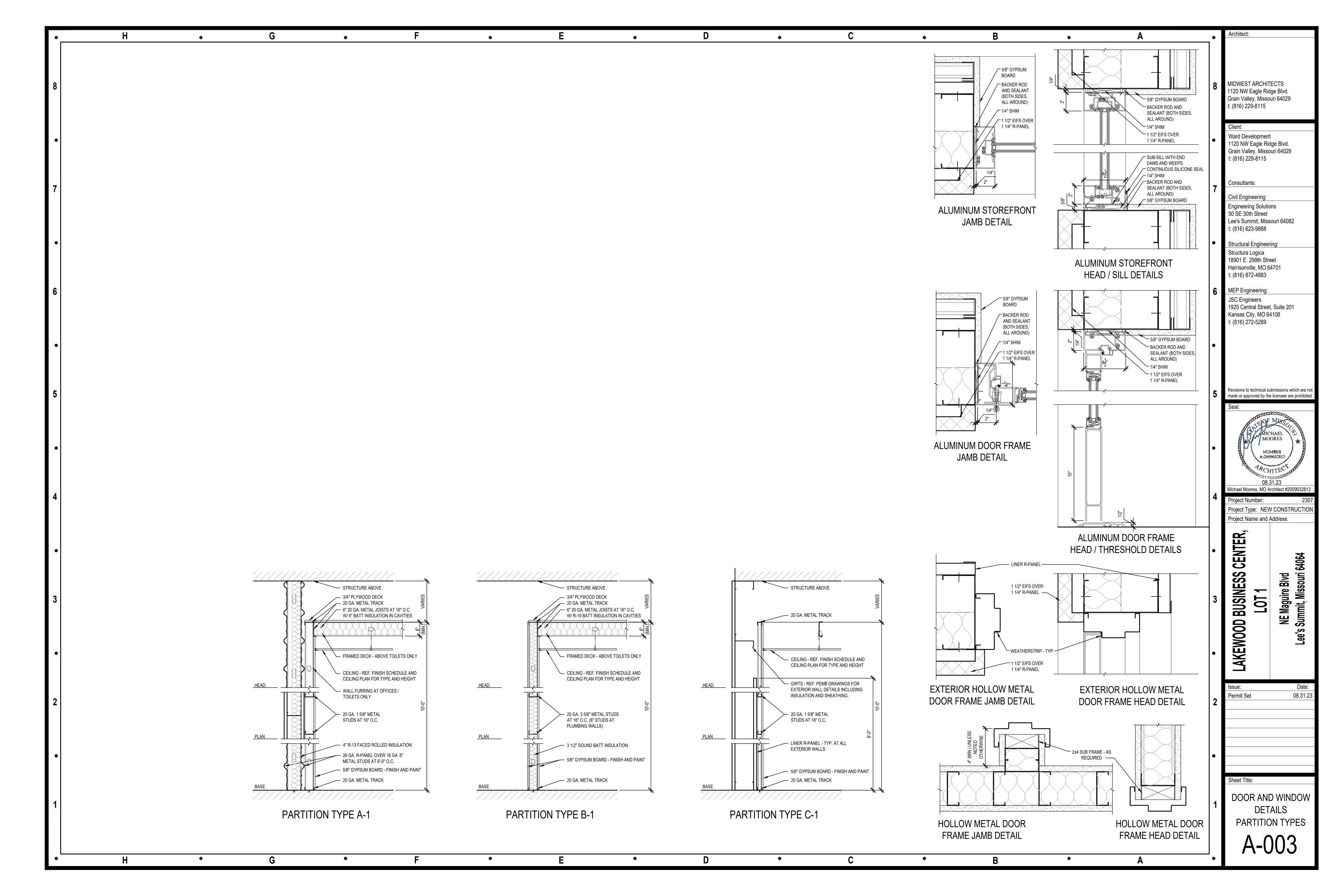
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226

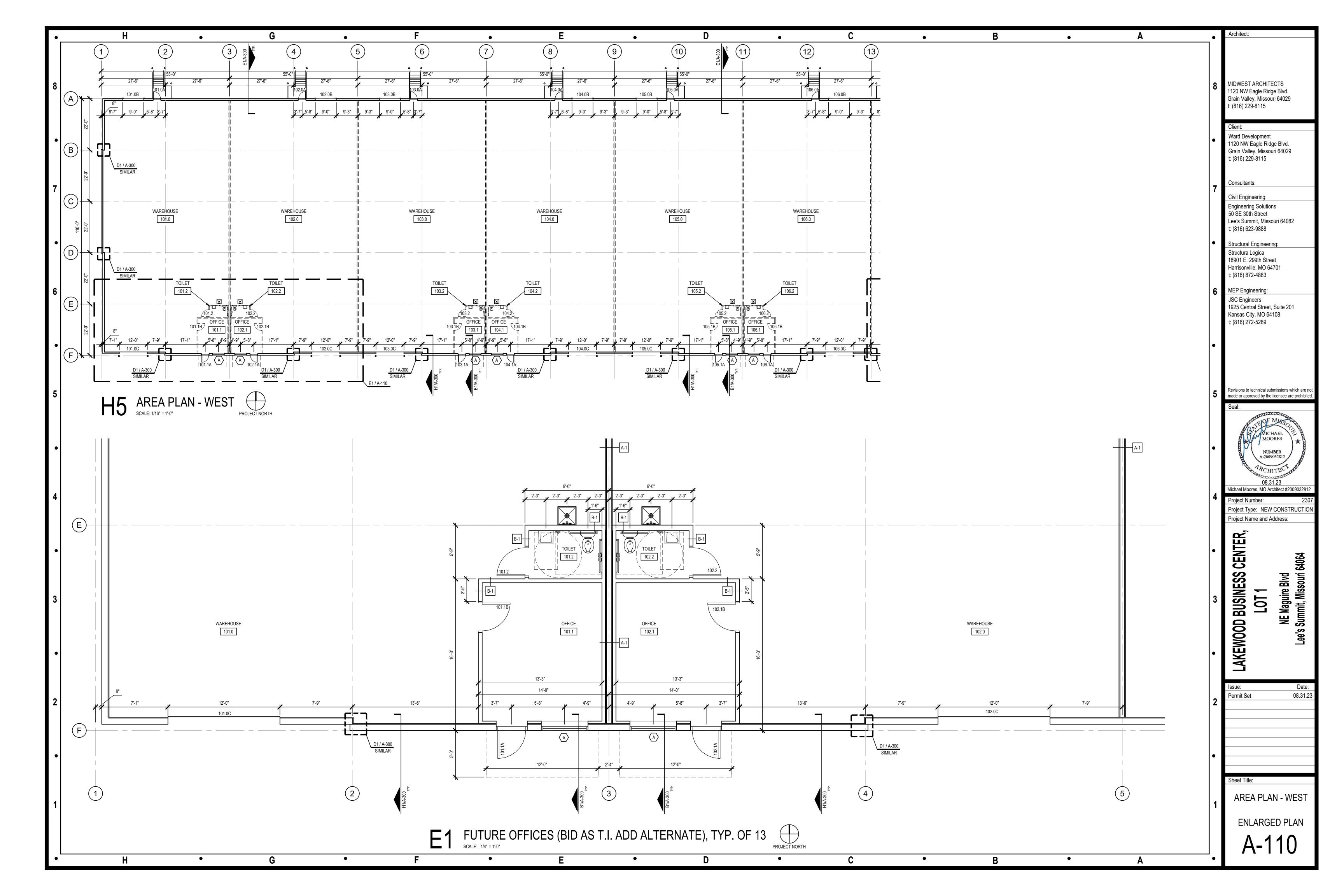
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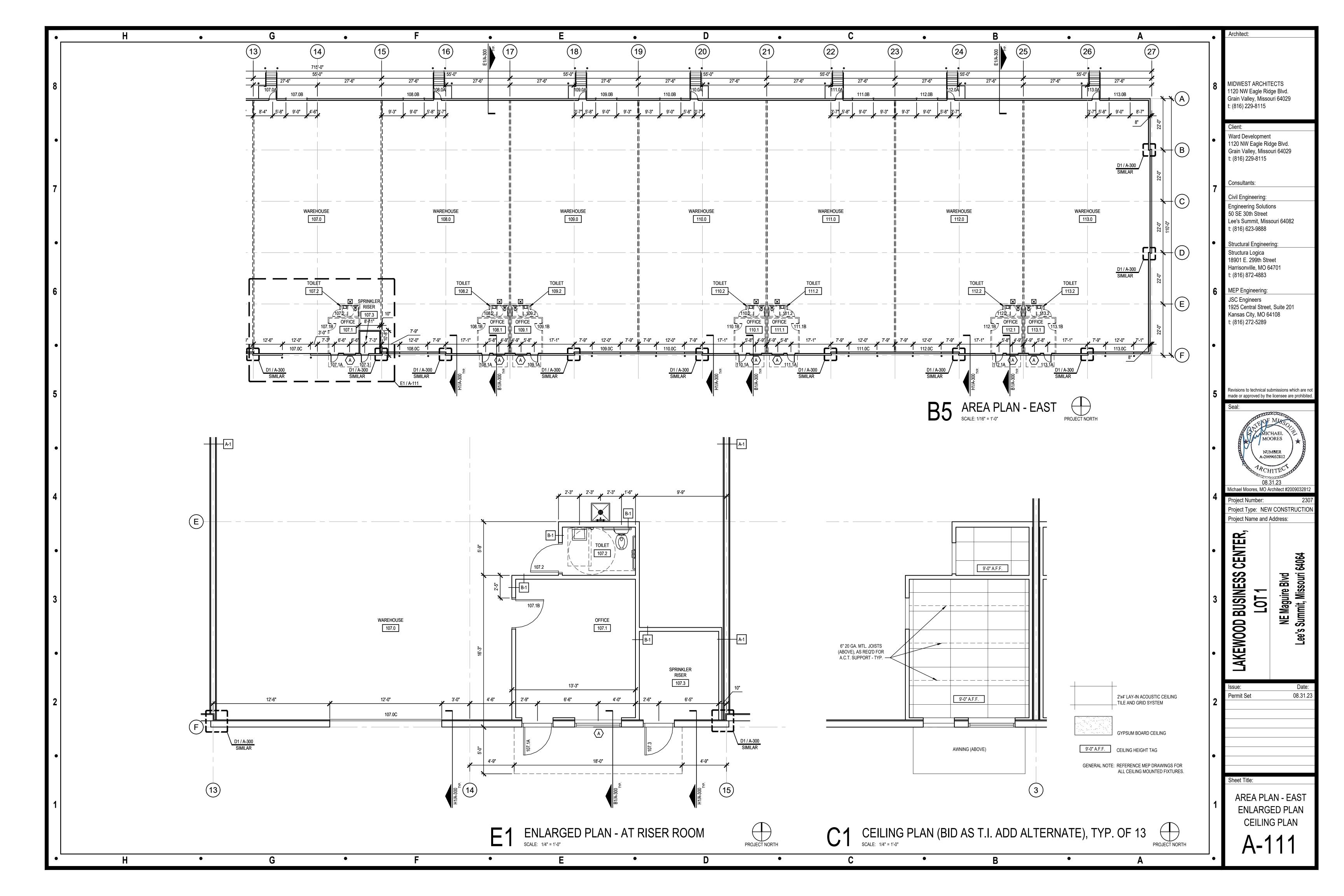
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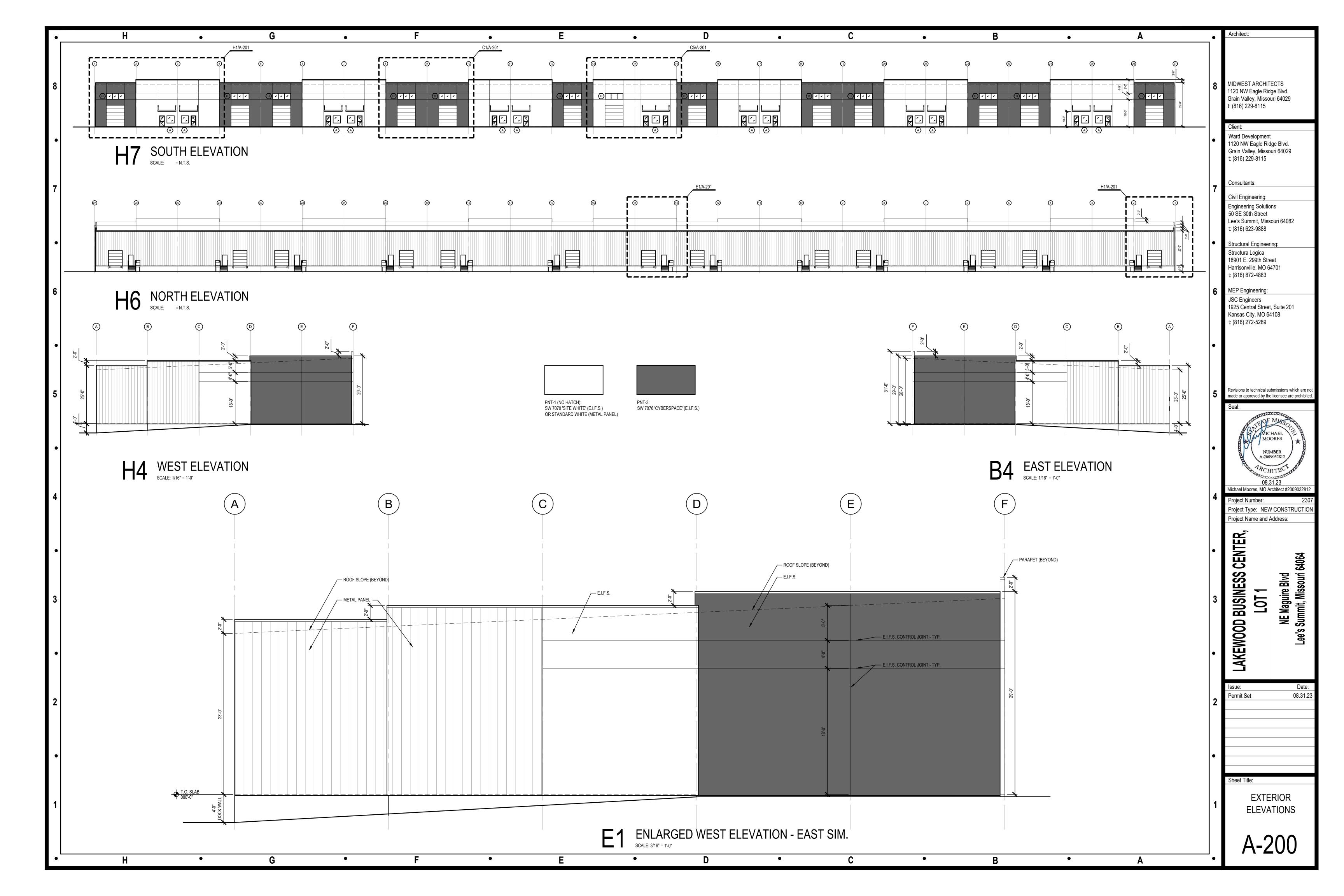


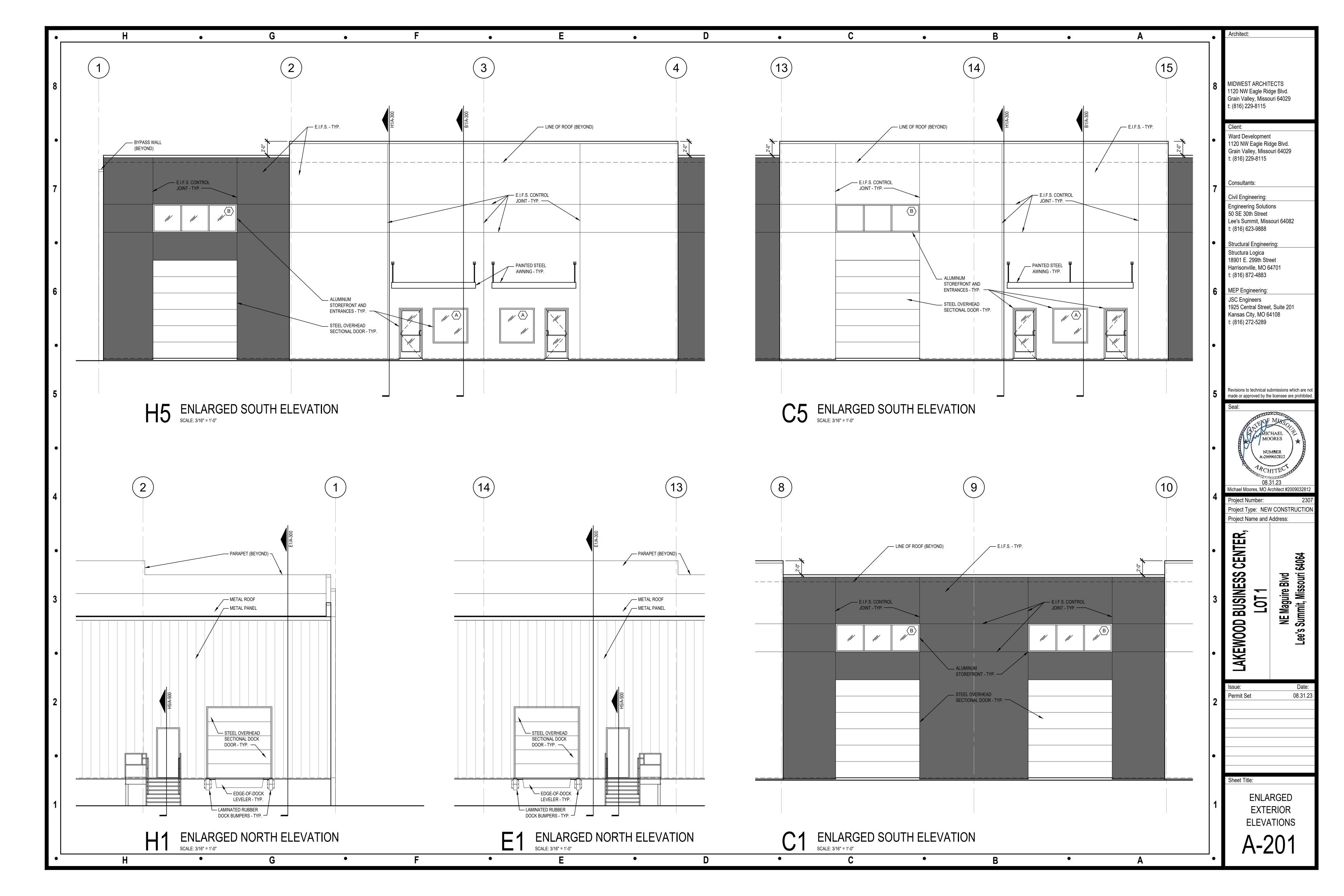


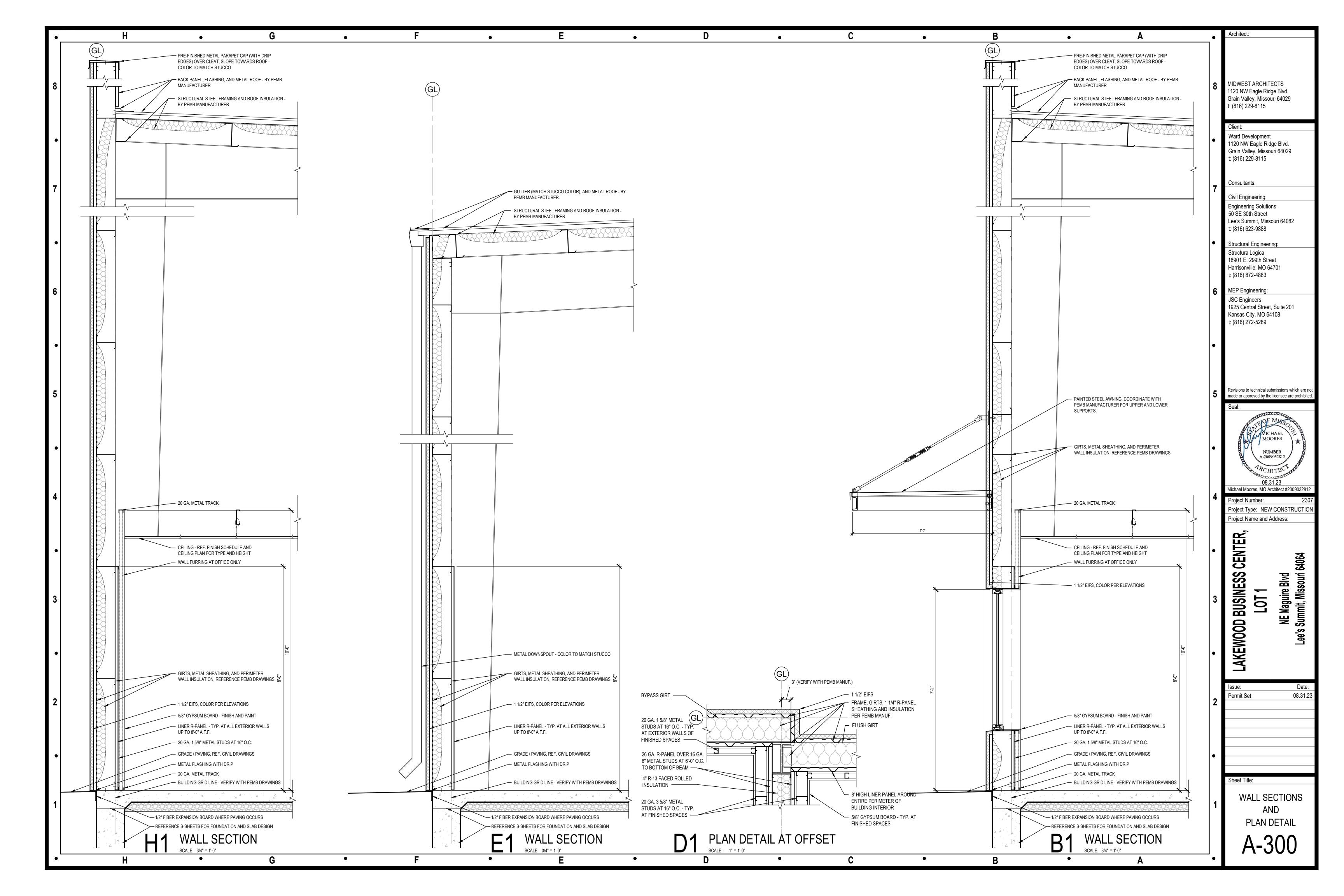


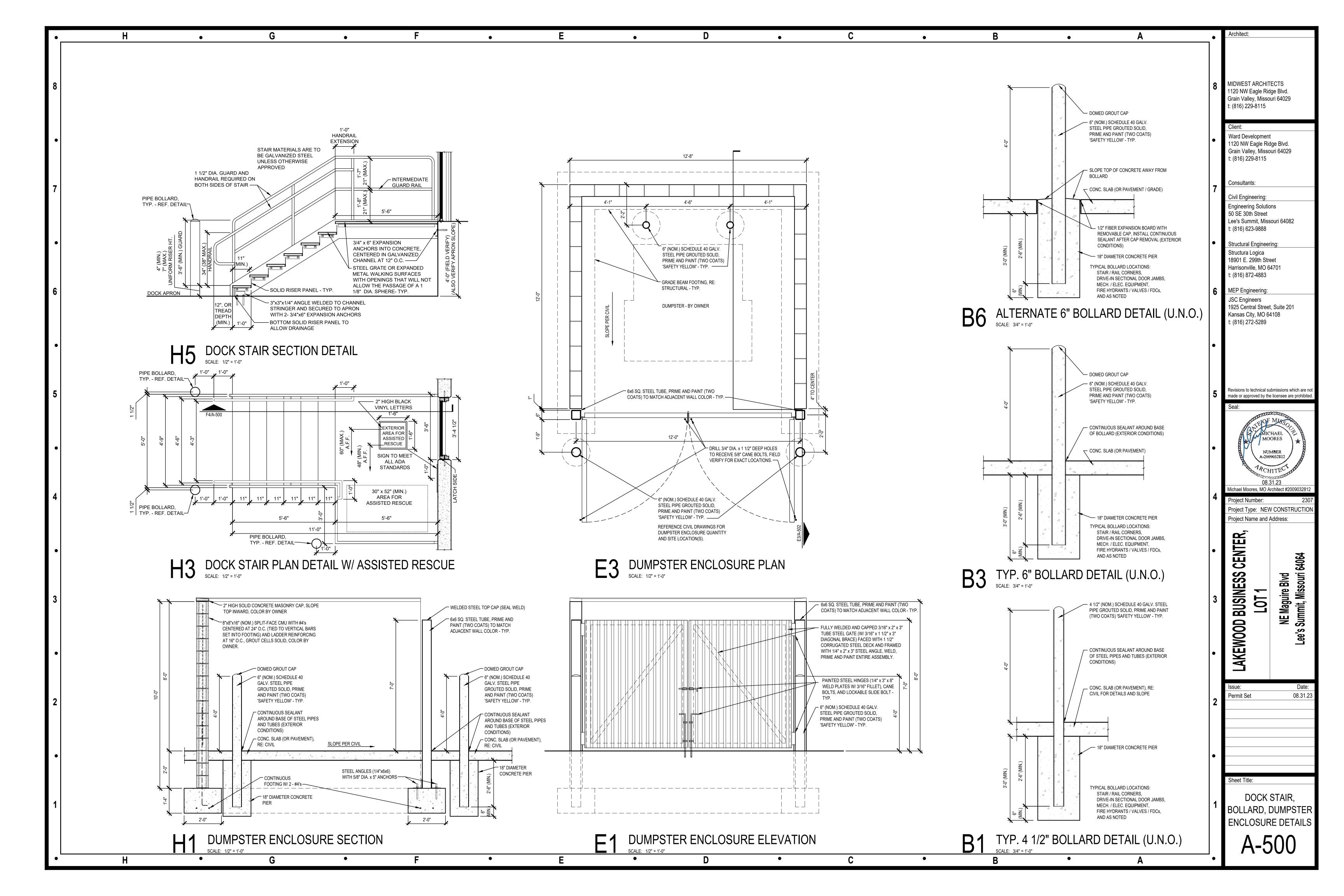












#### **DESIGN STATUS:**

THIS PLAN AND DETAILS IS FOR THE PURPOSE OF PLAN REVIEW AND COORDINATION. IT IS NOT SUITABLE FOR CONSTRUCTION. THE FINAL DESIGN FROM THE STEEL FABRICATOR TO BE REVIEWED WITH LOADING AND DESIGN

#### 1. GENERAL

- A. The contractor shall verify dimensions and conditions and notify the architect/engineer of any discrepancies, inconsistencies, or difficulties affecting cost of work before proceeding.
- B. The contractor shall coordinate all disciplines, verifying size and location of all openings. All conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the attention of the architect or engineer for direction before proceeding.
- C. All design and construction for this project shall conform to the requirements of the 2018 International Building Code (IBC), as adopted and amended.
- D. These drawings are for this specific project, and no other use is authorized.

#### 2. CONCRETE:

- A. All trench footing concrete shall develop a minimum compressive design strength of 3,500 psi in 28 days.
- All formed and slab concrete to be a minimum compressive design strength of 4,000 psi in 28 days.
- B. Concrete exposed to weather shall have a 6% +/- 1% air entrainment.
- C. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement
- D. No aluminum items shall be embedded in any concrete.
- E. Provide concrete design submittal for approval.
- F. Anchor bolts or threaded rods per ASTM F1554 Grade 36. A.B.  $\frac{3}{4}$  Dia.x24 Long at end walls, along gridlines 1, 27. A.B.  $\frac{3}{4}$ " Dia.x30" long at longitudinal walls, along gridlines A, F.
- G. Epoxy anchors are not acceptable as a substitute for tension loading conditions and major column bases. Anchors and fasteners smaller than  $\frac{3}{4}$  diameter may be epoxy or Kwik bolt style fasteners. See Detail B2/S0.

#### 3. REINFORCING STEEL:

- A. All reinforcing steel shall conform to the requirements of ASTM A615 Grade 60.
- B. Stirrups & ties shall conform to the requirements of ASTM A615 Grade 40.
- C. Clear minimum coverage of concrete over reinforcing steel shall be as follows: Concrete placed against earth 3" Formed concrete against earth 2"
- D. All dowels shall be the same size and spacing as adjoining main bars.
- E. Splice laps, hooks and bends per ACI and detailed herein.
- F. Wire tie steel prior to pour to insure steel remains in place when concrete is
- G. Provide reinforcing steel submittal for approval.

#### 4. SOIL PREPARATIONS AND CONDITIONS:

- A. Contractor to maintain OSHA safety precautions for workers.
- B. Excavate and remove all organic soil material below pad base per Geotechnical Report. Geotectnical Report dated August 28, 2023 by Alpha-Omega Geotech.
- C. Excavate and remove soft soil per Geotechnical Report. This design is based upon the soil conditions providing a minimum capacity of 2,500 psf. Individual interior pier footings may use 3,000 psf.
- D. This structural design assumes geotechnical recommendations will be incorporated into the site, slab, fill placement and building pad.

#### 5. STEEL BUILDING

A. Steel building plans take precedence over these plans. Contractor to verify baseplate and anchor bolt locations and projections.

#### **6. SPECIAL INSPECTIONS**

A. High strength bolts - ASTM A325

ABBREVIATIONS used - Not currently planned

A.B. TestiAgatoragoteste: Lab testing footing, and pier concrete required.

E.W. Each Way

Elevation (Relative Grade Height)

Number

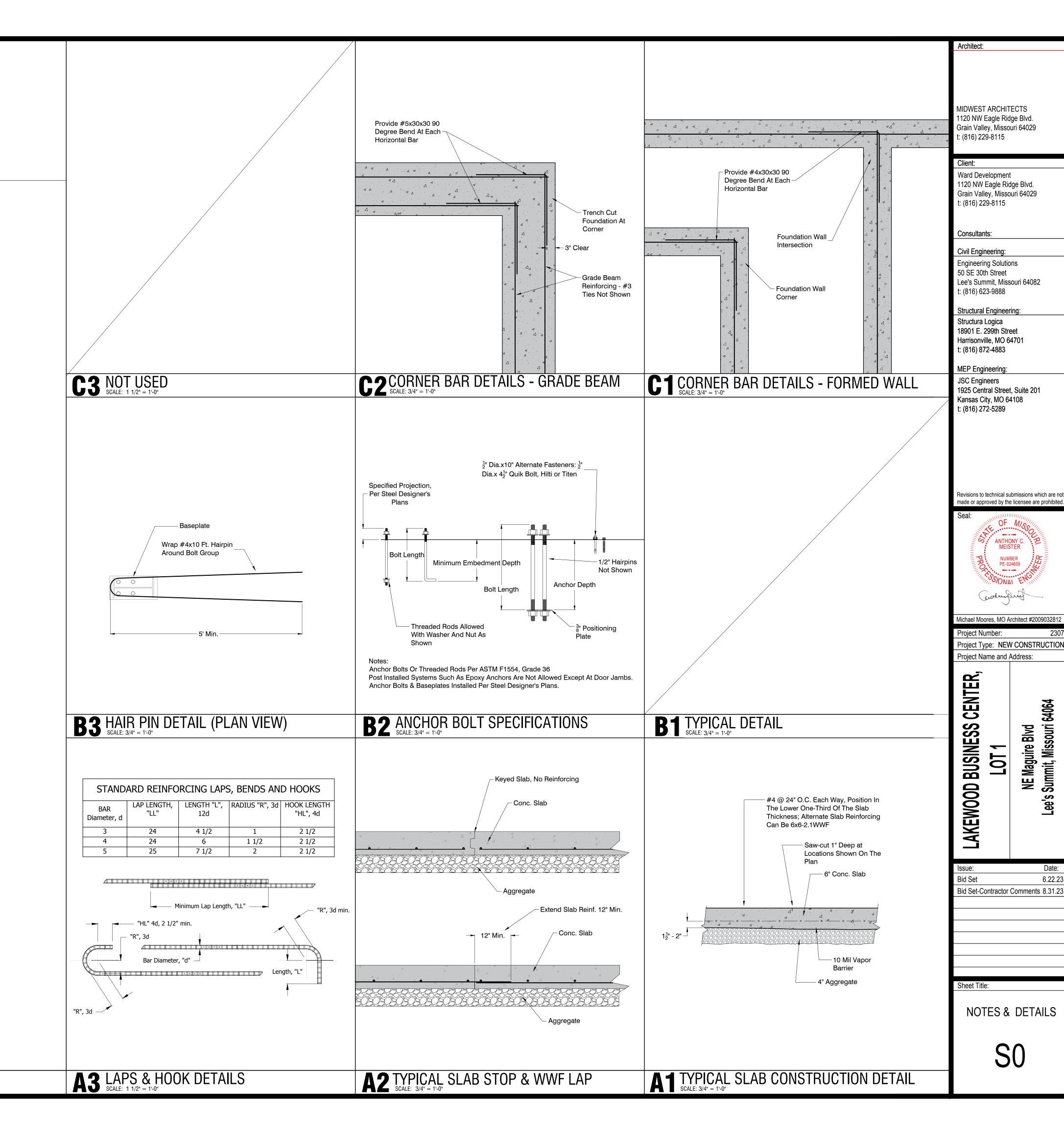
Sq.Ft. Square Feet

Top Of Beam Top Of Footing

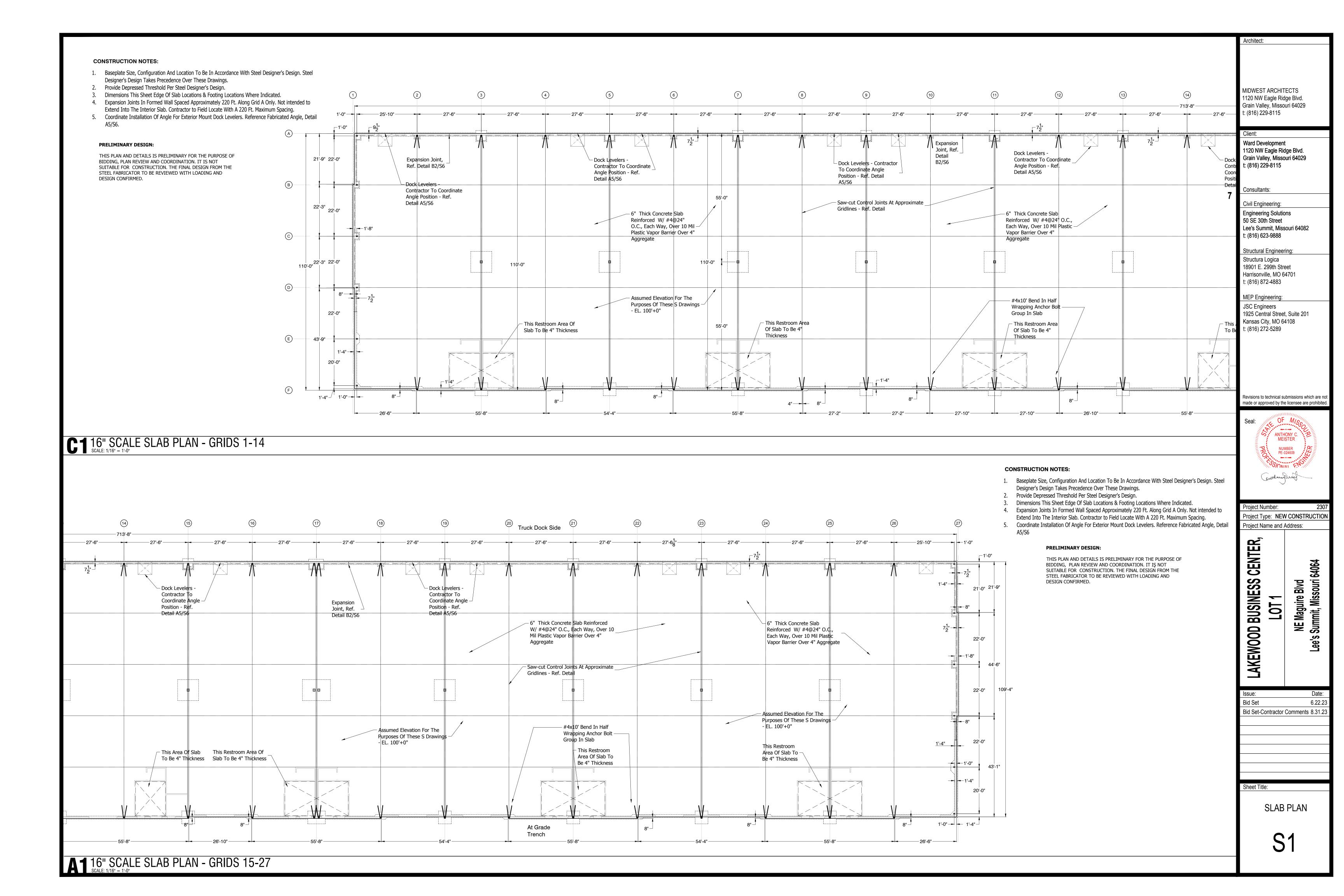
Top Of Wall

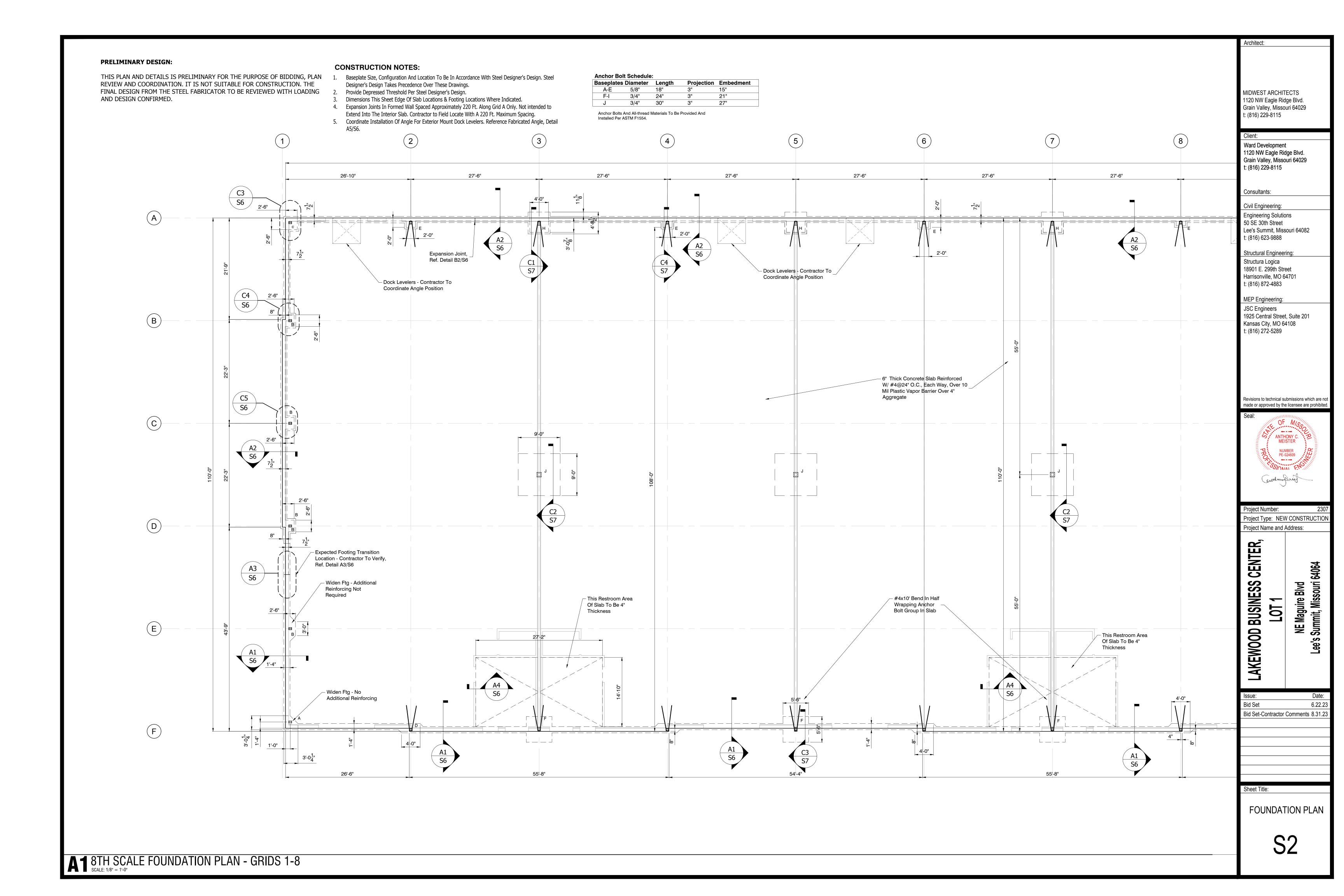
On Center Spacing

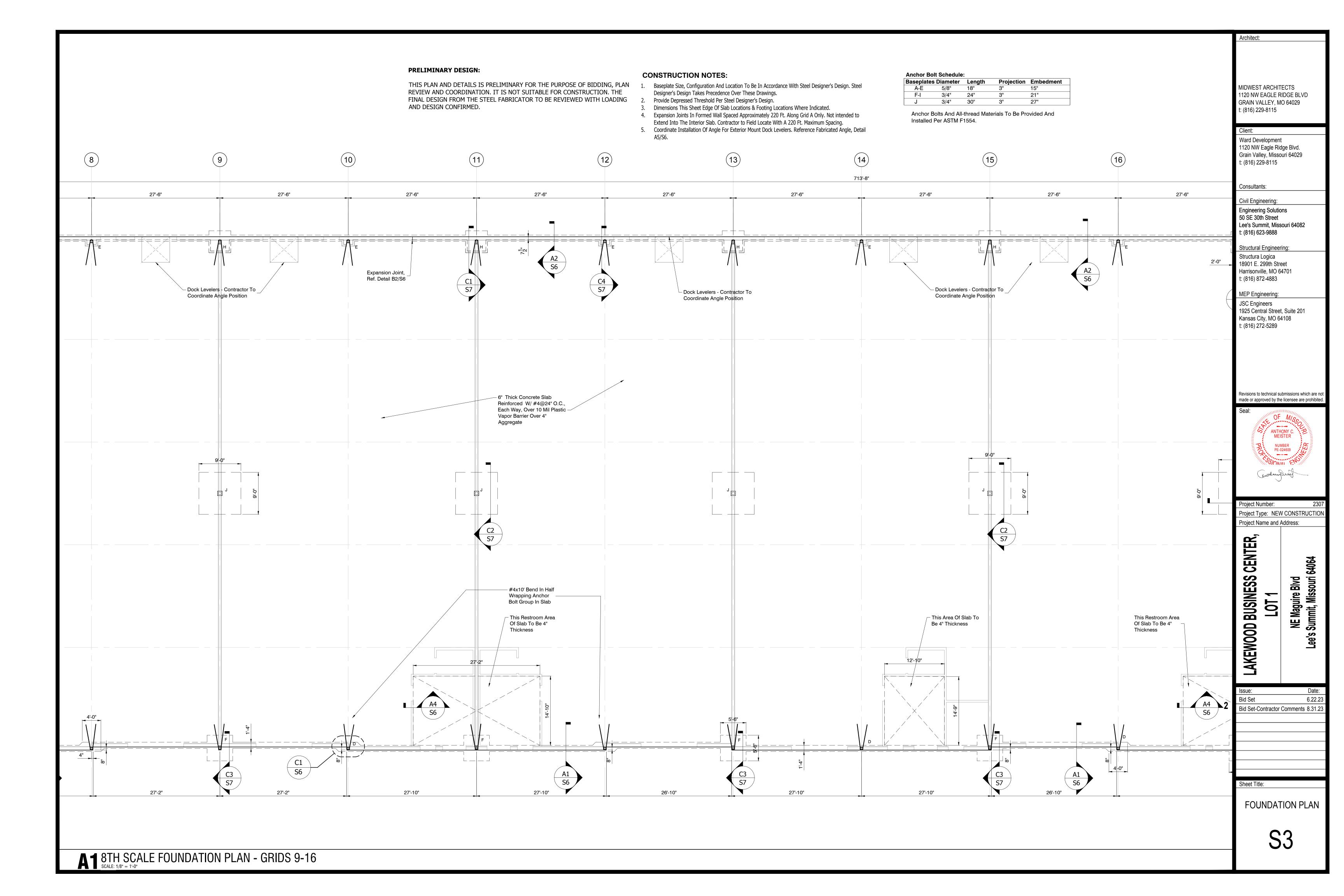
**Unless Noted Otherwise** 

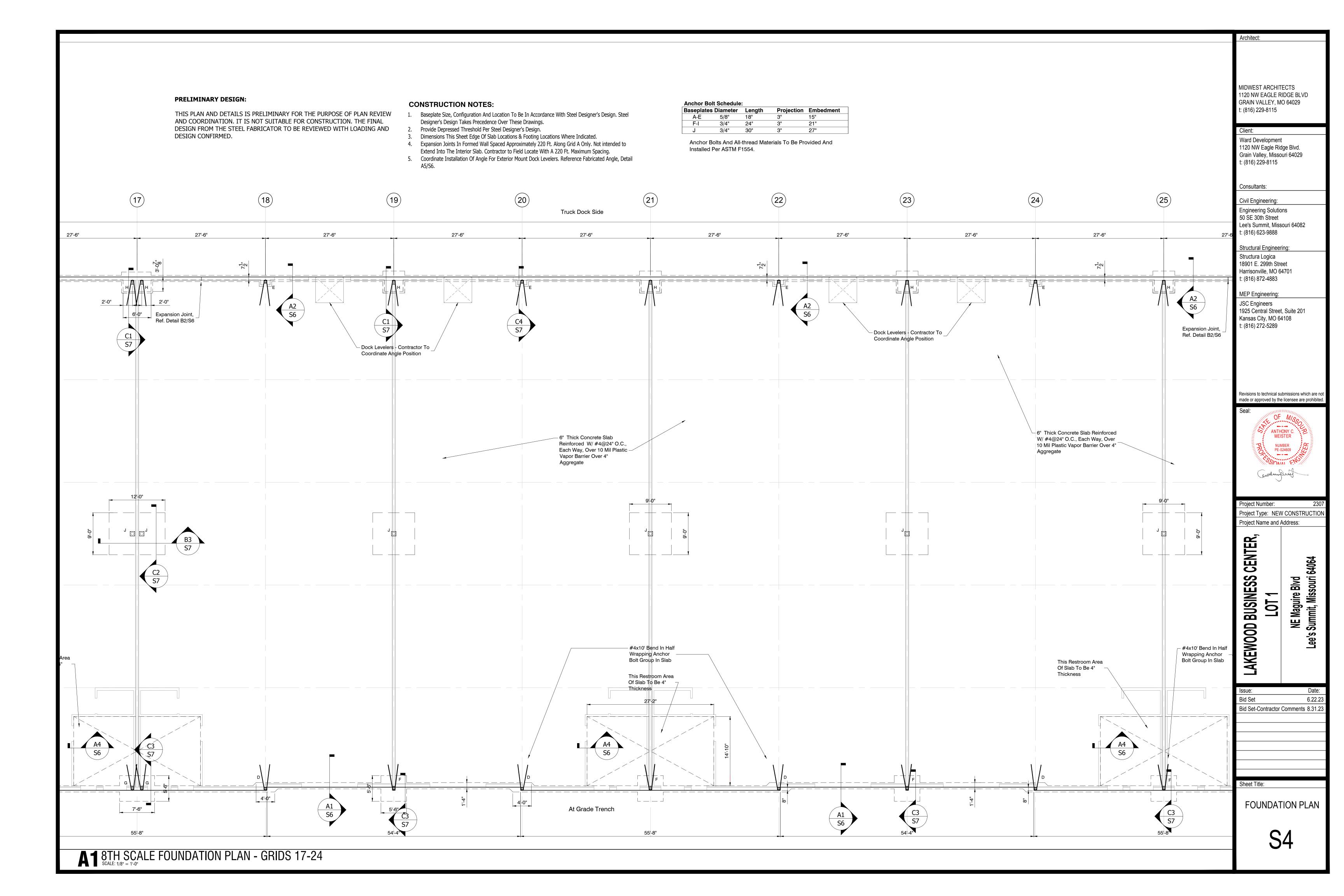


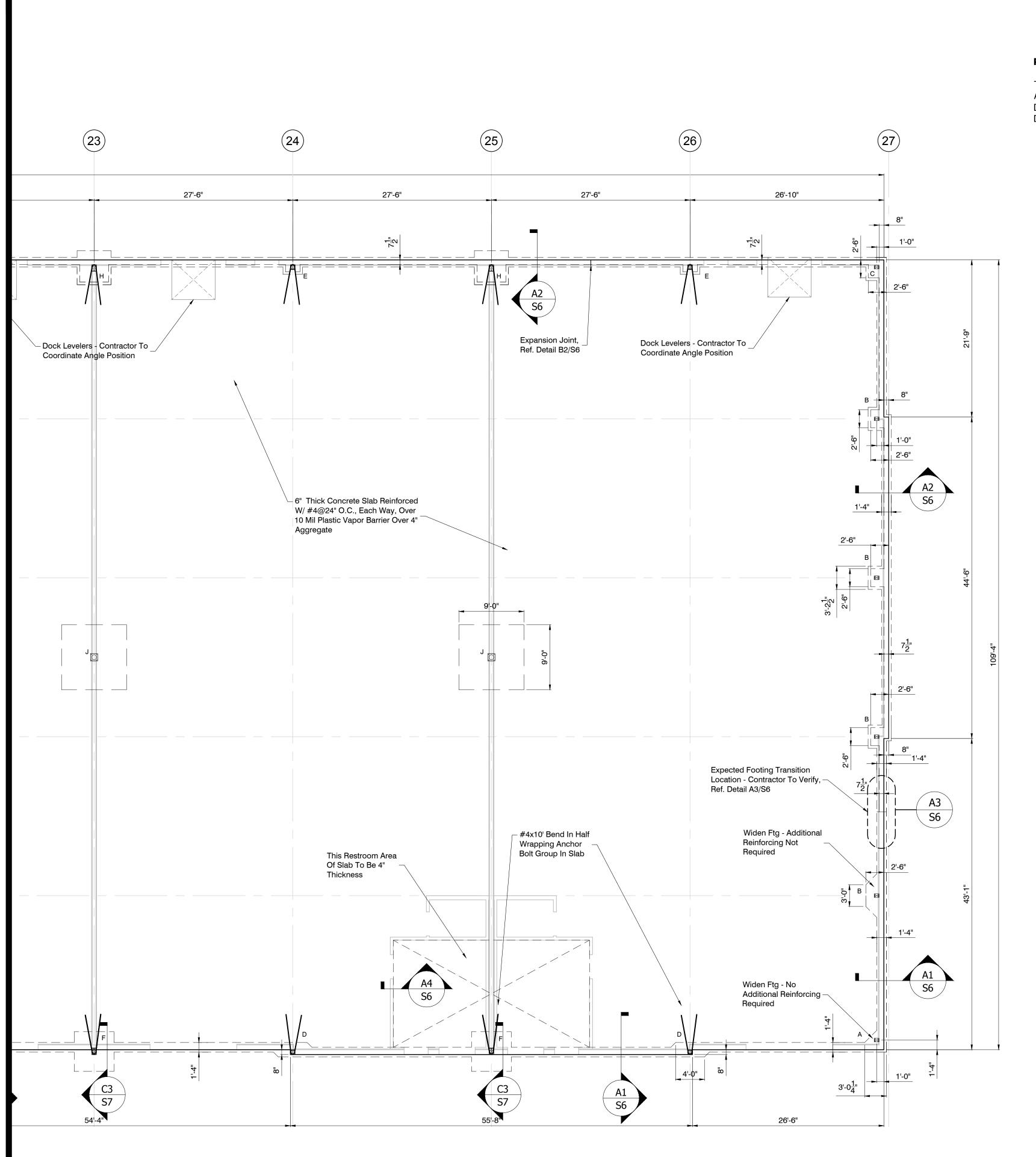
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#### PRELIMINARY DESIGN:

THIS PLAN AND DETAILS IS PRELIMINARY FOR THE PURPOSE OF PLAN REVIEW AND COORDINATION. IT IS NOT SUITABLE FOR CONSTRUCTION. THE FINAL DESIGN FROM THE STEEL FABRICATOR TO BE REVIEWED WITH LOADING AND DESIGN CONFIRMED.

Anchor Bolt Schedule:

Baseplates	s Diameter	Length	Projection	Embedment
A-E	5/8"	18"	3"	15"
F-I	3/4"	24"	3"	21"
J	3/4"	30"	3"	27"

Anchor Bolts And All-thread Materials To Be Provided And Installed Per ASTM F1554.

#### **CONSTRUCTION NOTES:**

- 1. Baseplate Size, Configuration And Location To Be In Accordance With Steel Designer's Design. Steel
- Designer's Design Takes Precedence Over These Drawings.
- 2. Provide Depressed Threshold Per Steel Designer's Design.
- 3. Dimensions This Sheet Edge Of Slab Locations & Footing Locations Where Indicated.
- 4. Expansion Joints In Formed Wall Spaced Approximately 220 Ft. Along Grid A Only. Not intended to Extend Into The Interior Slab. Contractor to Field Locate With A 220 Ft. Maximum Spacing.
- 5. Coordinate Installation Of Angle For Exterior Mount Dock Levelers. Reference Fabricated Angle, Detail A5/S6.

Architect:

MIDWEST ARCHITECTS 1120 NW EAGLE RIDGE BLVD GRAIN VALLEY, MO 64029 t: (816) 229-8115

Client:
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Civil Engineering:

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Structural Engineering:
Structura Logica
18901 E. 299th Street
Harrisonville, MO 64701
t: (816) 872-4883

MEP Engineering:

JSC Engineers 1925 Central Street, Suite 201 Kansas City, MO 64108 t: (816) 272-5289

Revisions to technical submissions which are not



Project Number: 2307
Project Type: NEW CONSTRUCTION
Project Name and Address:

LAKEWOOD BUSINESS CENTER, LOT 1

ne: Dat

NE Maguire Blvd s Summit, Missouri 6

Bid Set-Contractor Comments 8.31.23

FOUNDATION PLAN

S5

