



FINAL DEVELOPMENT PLAN FOR LEE'S SUMMIT FLEX SPACE 60 SE THOMPSON DR.

RELEASED FOR CONSTRUCTION
As Noted on Plan Review
Development Services Department
Lee's Summit, Missouri
05/08/2024

TYPICAL LEGEND	
	PROPOSED STANDARD DUTY ASPHALT PAVEMENT
	PROPOSED HEAVY DUTY CONCRETE PAVEMENT
	PROPOSED BUILDING
	EXISTING PUBLIC ROADWAY
	EXISTING 60' STREAM BUFFER
	PROPERTY LINE
	PROPOSED BUILDING OUTLINE
	EASEMENT LINE
	SETBACK LINE
	STANDARD CURB & GUTTER
	EXISTING SANITARY SEWER
	EXISTING WATER LINE
	EXISTING FIBER OPTIC
	EXISTING GAS
	EXISTING POWER
	EXISTING TELECOMMUNICATIONS
	PROPOSED WATER LINE
	PROPOSED UNDERGROUND ELECTRIC
	PROPOSED SANITARY SEWER

PROJECT TEAM

OWNER:
CAPITAL BUILDERS
1507 NE WALL ST.
LEE'S SUMMIT, MO. 64086
CONTACT: MATT HENDRICKSON
EMAIL: MATT@CAPITALBUILDERSKC.COM
TEL: (816) 609-8633

CIVIL ENGINEER:
KIMLEY-HORN AND ASSOCIATES, INC.
805 PENNSYLVANIA AVE. SUITE 150,
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CONTACT: PATRICK JOYCE, P.E.
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ARCHITECT:
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KANSAS CITY, MO 64108
CONTACT: JACOB LITTELL, RA, LEED AP BD+C
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EMAIL: JACOB@SIXTYONE.COM

LANDSCAPE:
LANDWORKS STUDIO
102 S CHERRY ST.
OLATHE, KS 66061
CONTACT: ERICA FLAD, PLA, LEED GA
TEL: (913) 780-6707
EMAIL: ERICA@LANDWORKSSTUDIO.COM

UTILITY AND GOVERNING AGENCY CONTACTS

SANITARY & WATER:
CITY OF LEE'S SUMMIT
JEFF THORN
1200 SE HAMBLEN RD.
LEE'S SUMMIT, MO 64081
TEL: (816) 969-1900

STREETS:
CITY OF LEE'S SUMMIT
MICHAEL PARK
220 SE GREEN ST.
LEE'S SUMMIT, MO 64083
TEL: (816) 969-1800

EVERGY:
DOUG DAVIN
1300 SE HAMBLEN RD.
LEE'S SUMMIT, MO 64081
TEL: (816) 347-4320

STORMWATER:
CITY OF LEE'S SUMMIT
PUBLIC WORKS
220 SE GREEN ST.
LEE'S SUMMIT, MISSOURI 64083
TEL: (816) 969-1800

AT&T:
RONALD GIPPERT
500 E 8TH ST.
KANSAS CITY, MO 64106
TEL: (816) 275-1550

MISSOURI GAS ENERGY:
RICHARD FROCK
3025 SW CLOVER DR.
LEE'S SUMMIT, MO 64082
TEL: (816) 472-3489

CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI
NW 1/4, SECTION S17, TOWNSHIP 47N, RANGE 31W

GENERAL NOTES:

- THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE PUBLIC WORKS DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI, IN ALL USAGE AND ALL SUPPLEMENTS THERE TO.
- CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, BONDS, AND INSURANCE REQUIRED BY THE CITY.
- THE IMPROVEMENTS SHOWN ON THIS PLAN ARE PRIVATE IMPROVEMENTS. COORDINATE WITH CITY FOR REQUIRED PERMITS, BONDS AND INSURANCE.
- ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI.
- 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.
- THE DEVELOPER/OWNER SHALL CONTROL EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION, AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS.
- ALL EXCESS MATERIAL SHALL BE REMOVED LEGALLY FROM SITE AND DISPOSED OF OFF SITE.
- TRAFFIC CONTROL AND MAINTENANCE OF TRAFFIC DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PUBLIC WORKS DEPARTMENT AND MUTCD.
- EROSION CONTROL MEASURES SHALL BE PROVIDED AT ALL LOCATIONS WHERE DRAINAGE IS LEAVING THE PROJECT SITE. THE EROSION CONTROL PLAN SHOWS MINIMUM EROSION CONTROL MEASURES TO BE PROVIDED. ADDITIONAL SITE SPECIFIC MEASURES MAY BE NECESSARY AND SHALL BE PROVIDED BY THE DEVELOPER/OWNER, AT THE CONTRACTOR'S EXPENSE.
- ANY EXISTING OR NEW STORM SEWER INLETS IN USE DURING DEMOLITION, GRADING OR CONSTRUCTION SHALL HAVE INLET PROTECTION AS SPECIFIED.

APPROXIMATE TOTAL ACREAGE: 2.13 AC
LIMITS OF DISTURBANCE: 1.81 AC

WATERSHED: BIG CREEK



HISTORIC INFORMATION

THIS STRUCTURE IS NOT LISTED IN THE NATIONAL REGISTER OF HISTORIC PLACES.

THIS SITE IS NOT LOCATED IN A LOCAL HISTORIC DISTRICT PER THE MISSOURI DEPARTMENT OF NATURAL RESOURCES HISTORIC DISTRICTS AND SITES DATABASE, ACCESSED JUNE 27, 2023.

FEMA INFORMATION

THIS SITE IS LOCATED WITHIN ZONE X PER FEMA FIRM MAPS 29095C0438G. EFFECTIVE DATE JANUARY 20, 2017. NO LETTERS OF MAP AMENDMENT OR REVISION ARE BEING PROPOSED.

LEGAL DESCRIPTION

LOT 3A, DECKER STREET MINOR PLAT, LOTS 2A AND 3A, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, ACCORDING TO THE PLAT RECORDED AUGUST 6, 2021.

PROJECT SPECIFICATIONS

THE SPECIFICATIONS FOR THIS PROJECT SHALL BE THE FOLLOWING:

- THE CITY OF LEE'S SUMMIT, MISSOURI
- KANSAS CITY METRO APWA

THE STANDARD SPECIFICATIONS THROUGH AND INCLUDING THE LATEST AMENDMENTS SHALL BE PART OF THESE PROJECT DRAWINGS AND SPECIFICATION AND ARE INCORPORATED HEREIN BY REFERENCE. THE MORE STRINGENT OF THESE STANDARD SPECIFICATIONS AND THOSE PREPARED BY THE ENGINEERING PREPARING THESE PLANS SHALL GOVERN.

OIL AND GAS WELL NOTES

NO ABANDONED OIL OR GAS WELLS HAVE BEEN IDENTIFIED WITHIN THE PROPERTY LIMITS OF THE PROPOSED CONSTRUCTION ACTIVITIES, PER THE MISSOURI DEPARTMENT OF NATURAL RESOURCES (MDNR) PERMITTED OIL AND GAS DATABASE, ACCESSED JUNE 27, 2023.

FIRE CODE

ALL ISSUES PERTAINING TO LIFE, SAFETY, AND PROPERTY PROTECTION FROM THE HAZARDS OF FIRE, EXPLOSION OR DANGEROUS CONDITIONS IN NEW AND EXISTING BUILDINGS, STRUCTURES AND PREMISES, AND TO THE SAFETY TO FIRE FIGHTERS AND EMERGENCY RESPONDERS DURING EMERGENCY OPERATIONS, SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL FIRE CODE.

Sheet List Table

Sheet Number	Sheet Title
C001	COVER SHEET
C002	EXISTING CONDITIONS
C003	SITE PLAN
C004	GRADING PLAN
C005	ADA RAMPS
C006	UTILITY & STORMWATER PLAN
C007	STORMWATER PLAN & PROFILE
C008	STORMWATER PLAN & PROFILE
C009A	STORMWATER BMP
C009B	DETAILS
C009C	ADS DETAILS
C010	DETAILS
C011	DETAILS
C012	DETAILS
L001	LANDSCAPE PLAN
L002	LANDSCAPE DETAILS
A101	FLOOR PLANS
A201	ELEVATIONS - BUILDING A
A202	ELEVATIONS - BUILDING B
A203	RENDERINGS
A204	TRASH ENCLOSURE PLAN & DETAILS
M101	MECHANICAL FLOOR PLANS
E001	SITE PHOTOMETRICS
F001	FIRE SUPPRESSION
F101	FIRE SUPPRESSION FLOOR PLANS
F500	FIRE SUPPRESSION DETAILS

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DESIGNED BY: LLG
DRAWN BY: LLG
CHECKED BY: PUJ



CAPITAL BUILDERS

COVER SHEET

LEE'S SUMMIT
FLEX SPACE
60 SE THOMPSON DR
LEE'S SUMMIT, MISSOURI 64081

ORIGINAL ISSUE:

4/29/2024

KHA PROJECT NO.

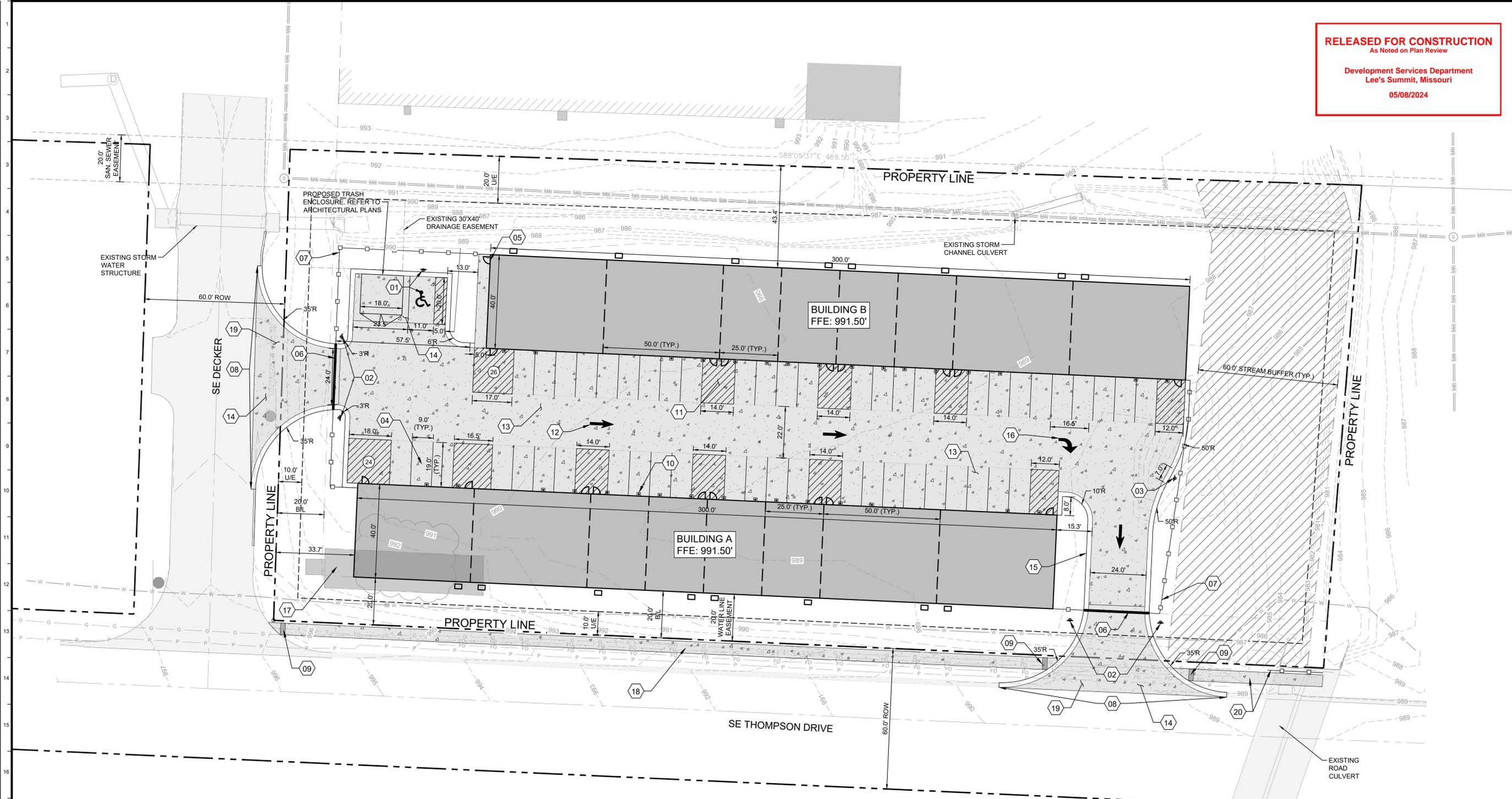
268442000

SHEET NUMBER

C001

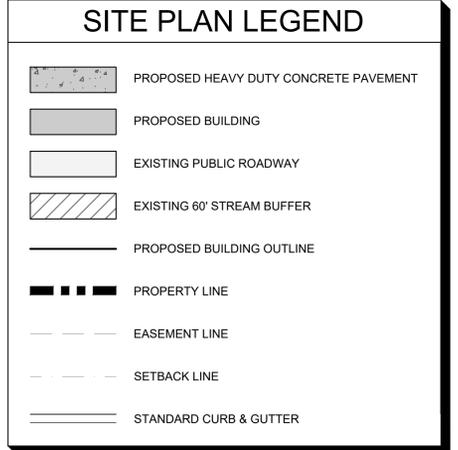
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SITE PLAN KEY NOTES

- 01 INSTALL 1 VAN ACCESSIBLE ADA PARKING STALL WITH SIGN MOUNTED A MINIMUM OF 6 FEET ABOVE FINISHED GRADE. REFER TO DETAIL 17, SHEET C012
- 02 INSTALL "DO NOT ENTER" SIGNS ACCORDING TO MUTCD R5-1, REFER TO DETAIL 17, SHEET C012
- 03 INSTALL "ONE WAY" SIGN ACCORDING TO MUTCD R6-2. REFER TO DETAIL 17, SHEET C012
- 04 INSTALL PARKING STALLS (TYP.). PAINT 4" PARKING STRIPING, PAINT TO BE LEAD-FREE, WATER-BORNE, EMULSION-BASED TRAFFIC PAINT, WHITE IN COLOR
- 05 INSTALL SECURED RESTROOM WITH SIDE DOOR
- 06 INSTALL AMERISTAR MONTAGE PLUS 3-RAIL SYSTEM GATE WITH KNOX KEY SWITCH (TYP.). REFER TO DETAIL 19, SHEET C012
- 07 INSTALL AMERISTAR MONTAGE PLUS 3-RAIL SYSTEM FENCE (TYP.). REFER TO DETAIL 18, SHEET C012
- 08 REMOVE EXISTING CURB WITHIN BOUNDS OF KEY NOTE ARROWS
- 09 INSTALL ADA RAMP WITH WARNING PAD. REFER TO DETAIL 14, SHEET C011
- 10 INSTALL STEEL-ENCASED CONCRETE BOLLARD (TYP.). REFER TO ARCHITECTURAL PLANS. REFER TO DETAIL 21, SHEET C012
- 11 PAINT 4" PARKING STRIPING AT 45°, PAINT TO BE LEAD-FREE, WATER-BORNE, EMULSION-BASED TRAFFIC PAINT, WHITE IN COLOR, AT 2-FT ON-CENTER SPACING (TYP.)
- 12 PAINT THRU TRAFFIC ARROW, PAINT TO BE LEAD-FREE, WATER-BORNE, EMULSION-BASED TRAFFIC PAINT, WHITE IN COLOR (TYP.). REFER TO DETAIL 16, SHEET C012
- 13 INSTALL STANDARD-DUTY CONCRETE PAVEMENT (PAVEMENT SECTION 1). REFER TO DETAIL 20, SHEET C012
- 14 INSTALL HEAVY-DUTY CONCRETE PAVEMENT (PAVEMENT SECTION 2). REFER TO DETAIL 20, SHEET C012
- 15 INSTALL STRAIGHT BACK CURB AND GUTTER (TYP.). REFER TO DETAIL 15, SHEET C011
- 16 PAINT RIGHT-TURN TRAFFIC ARROW, PAINT TO BE LEAD-FREE, WATER-BORNE, EMULSION-BASED TRAFFIC PAINT, WHITE IN COLOR. REFER TO DETAIL 16, SHEET C012
- 17 REMOVE EXISTING CONCRETE PAD
- 18 INSTALL SIDEWALK WITH BUFFER. REFER TO DETAIL 12, SHEET C011
- 19 INSTALL PRIVATE DRIVEWAY. REFER TO DETAIL 13, SHEET C011
- 20 INSTALL SIDEWALK WITH RAIL. REFER TO DETAIL 18, SHEET C012



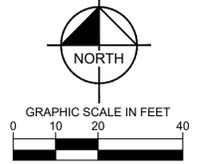
SUMMARY TABLE

A	Zoning	
	Existing	Industrial
B	Proposed	
	Industrial	
C	Approximate Total Land Area*	
	Existing	2.13 Acres
D	Right-of-way	
	Existing	0.00 Acres
E	Proposed	
	Proposed	0.00 Acres
F	Approximate Net Land Area*	
	Existing	2.13 Acres
G	Proposed	
	Proposed	2.13 Acres
H	Impervious Area	
	Existing	0.03 Acres 1.4% Area
I	Proposed	
	Proposed	1.19 Acres 55.9% Area
J	Proposed Uses	
	Flex Storage	
K	Building Information	
	Gross Floor Area (SF)	+/- 24,000
L	Off-Street Vehicle Parking	
	Floor Area Ratio	0.27
M	Stalls Required	
	Stalls Provided	25
N	Stalls Provided	
	ADA Stalls Provided	50
O	ADA Stalls Required	
	ADA Stalls Provided	1
P	ADA Stalls Required	
	ADA Stalls Provided	1

ZONING **CURRENT USE**

PI (PLANNED INDUSTRIAL) VACANT

- GENERAL NOTES**
1. ALL DIMENSIONS REFER TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 2. BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
 3. B/L REFERS TO THE BUILDING SETBACK LINE.
 4. U/E REFERS TO THE UTILITY EASEMENT LINE.
 5. RADII ADJACENT TO PARKING STALL AND NOT DIMENSIONED ON THIS PLAN SHALL BE 3-FEET, TYPICAL.
 6. ALL PROPOSED ON-SITE STRIPING SHALL BE PAINTED UNLESS OTHERWISE NOTED.

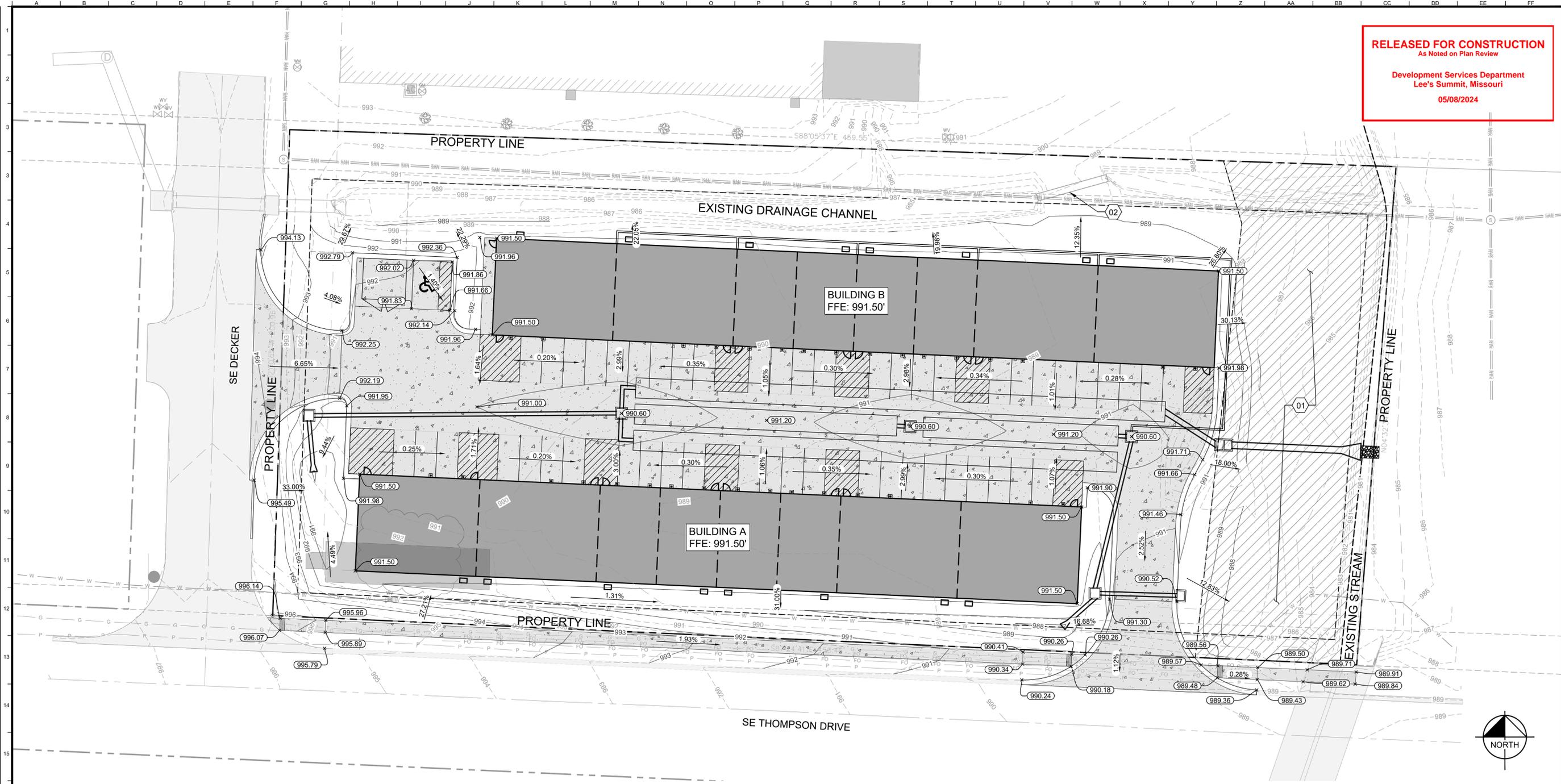


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<p>CAPITAL BUILDERS</p>	
<p>SITE PLAN</p>	
<p>LEE'S SUMMIT FLEX SPACE</p> <p style="font-size: x-small;">60 SE THOMPSON DR LEE'S SUMMIT, MISSOURI 64081</p>	
<p>ORIGINAL ISSUE: 4/29/2024</p> <p>KHA PROJECT NO. 268442000</p> <p>SHEET NUMBER</p>	
<p>C003</p>	

Drawing name: K:\KAC_LITE\268442000_Capital Builders Lee's Summit\2023\Site Plan\Site Plan.dwg C003 - SITE PLAN - Apr 29, 2024 5:18pm by logan.green
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PAVING, GRADING AND DRAINAGE NOTES

- ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN COUNTY'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR MODOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.
- ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.
- TRAFFIC CONTROL ON ALL MODOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
- ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN.
- ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
- WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
- WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
- IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
- STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.
- FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO KDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED OR SEEDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SODDED OR SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.
- ALL CUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL) : 1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS PER MISSOURI DEPARTMENT OF NATURAL RESOURCES.
- SOD, WHERE CALLED FOR, MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.
- THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE ENVIRONMENTAL RESOURCE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY WATER MANAGEMENT DISTRICT REPRESENTATIVES.
- THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
- THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS.

GRADING LEGEND

	1015	EXISTING CONTOUR
	1015	PROPOSED CONTOUR
	XXX.XX	SPOT ELEVATION
	X.XX%	SLOPE ARROW

- GRADING PLAN KEY NOTES**
- EXISTING RUBBLE SHALL BE HAULED AND DISPOSED OF PROPERLY OFFSITE
 - EXISTING CULVERT SHALL BE REMOVED. CONTRACTOR SHALL REGRADE TO MAINTAIN EXISTING DRAINAGE PATTERNS

LIMITS OF DISTURBANCE: 1.81 AC

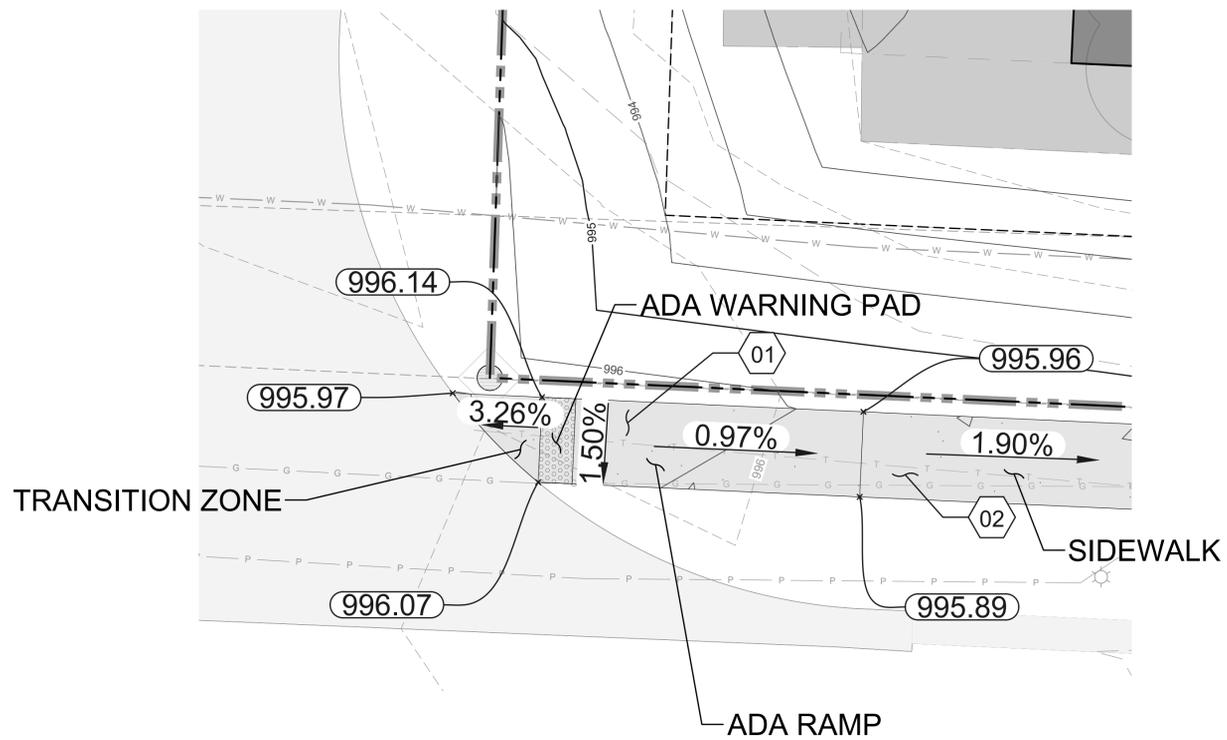
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GRADING PLAN			
LEE'S SUMMIT FLEX SPACE 60 SE THOMPSON DR LEE'S SUMMIT, MISSOURI 64081			
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SHEET NUMBER:	C004		

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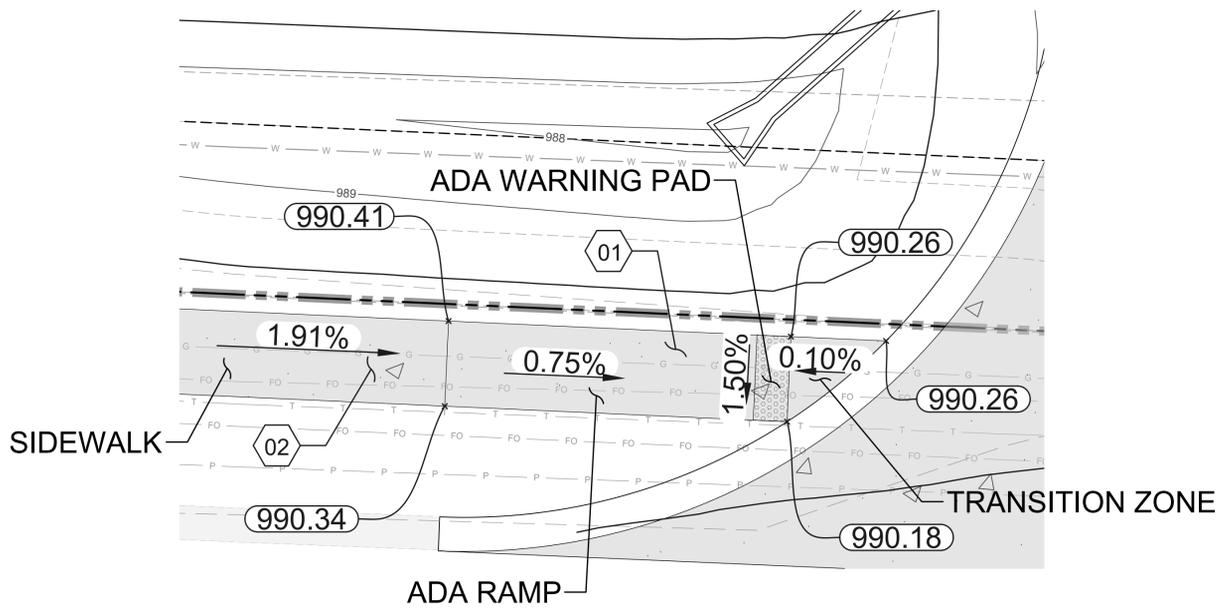
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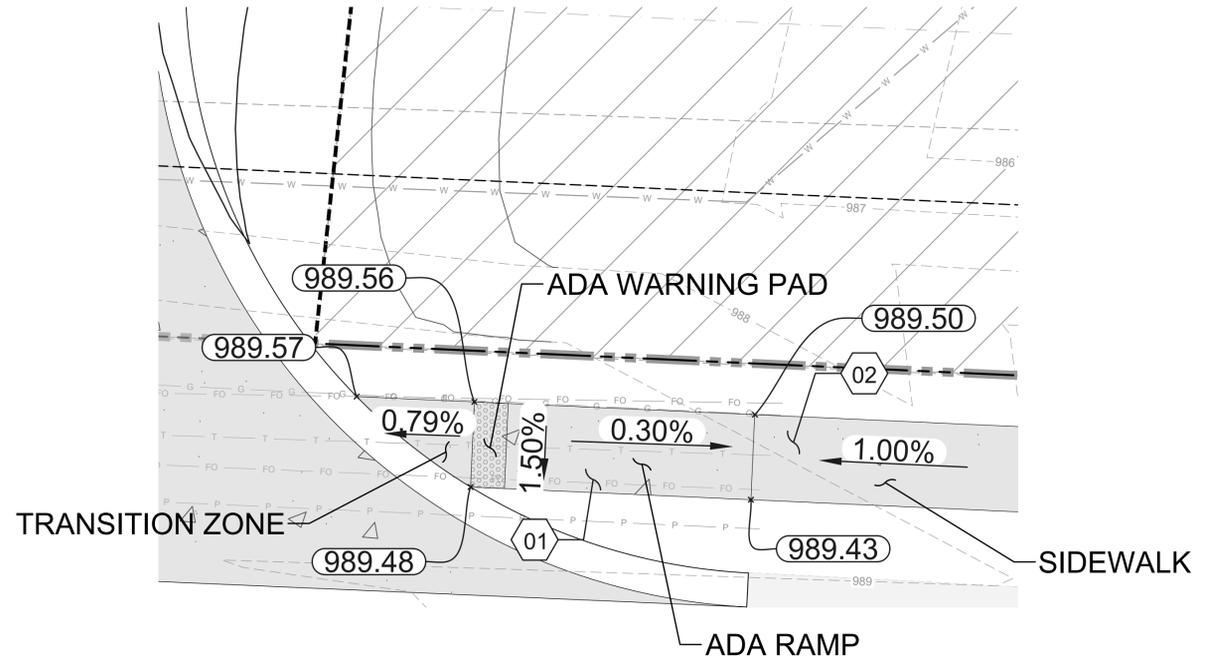
ADA RAMP 1



ADA RAMP 2



ADA RAMP 3



GRADING LEGEND	
	EXISTING CONTOUR
	PROPOSED CONTOUR
	SPOT ELEVATION
	SLOPE ARROW

- GRADING PLAN KEY NOTES**
- 01 INSTALL ADA SIDEWALK RAMP WITH WARNING PAD. REFER TO DETAIL 14, SHEET C011
 - 02 INSTALL SIDEWALK WITH BUFFER. REFER TO DETAIL 12, SHEET C011

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C005									

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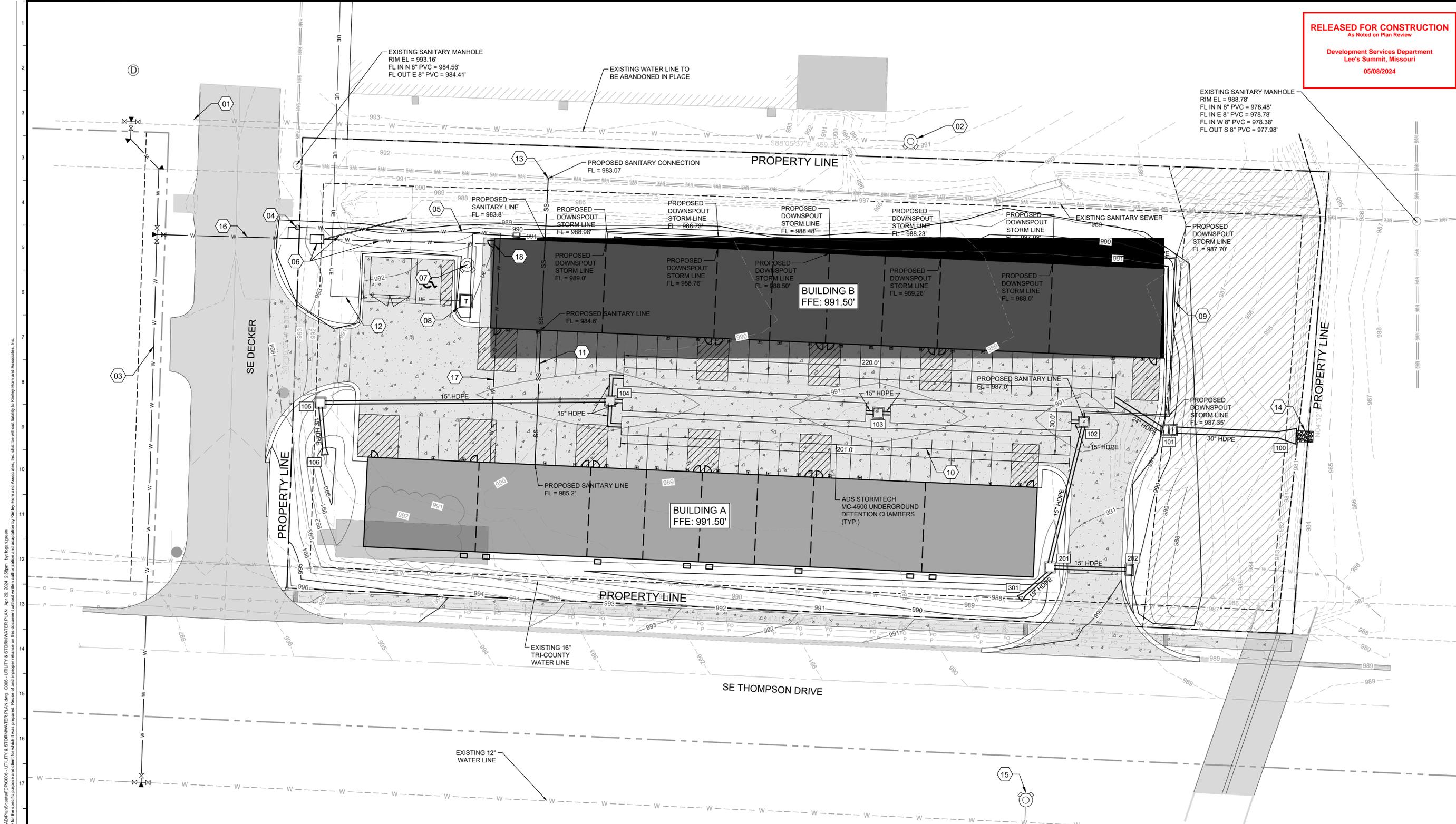
CAPITAL BUILDERS

UTILITY & STORMWATER PLAN

LEE'S SUMMIT FLEX SPACE
60 SE THOMPSON DR
LEE'S SUMMIT, MISSOURI 64081

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268442000
SHEET NUMBER

C006



Rip-Rap Pad Sizing Calculations

Max. Shear Stress: $\tau_v = Y * d * S$

Flared-End Section 100:

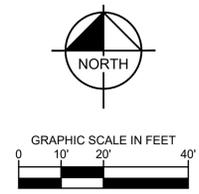
τ_v : (lb/ft ²)	1.889082
Y: (lb/ft ²)	62.4
d: (ft)	0.8625
S: (ft/ft)	0.0351

Max. Permissible Shear Strength for MODOT Type 3
Rock Ditch Liner: 4 lb/ft²

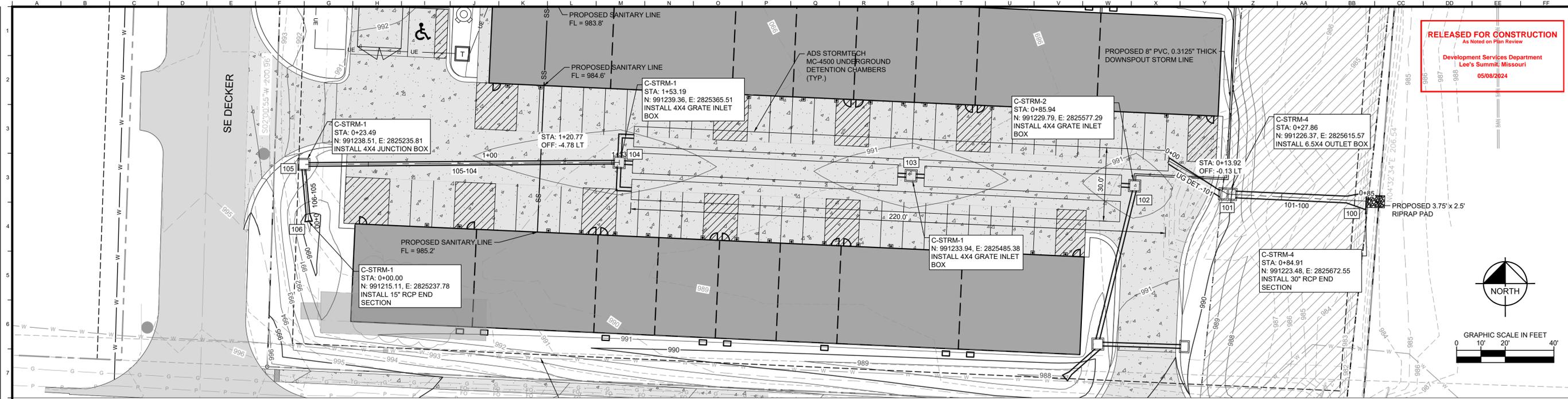
UTILITY LEGEND

--- W --- W ---	EXISTING SANITARY SEWER
--- W --- W ---	EXISTING WATER LINE
--- FO --- FO --- FO ---	EXISTING FIBER OPTIC LINE
--- G --- G --- G ---	EXISTING GAS LINE
--- P --- P --- P ---	EXISTING POWER LINE
--- T --- T --- T ---	EXISTING TELECOMMUNICATIONS LINE
--- W --- W ---	PROPOSED WATER LINE
--- UE --- UE ---	PROPOSED UNDERGROUND ELECTRIC LINE
--- SS --- SS ---	PROPOSED SANITARY SEWER LINE
[T]	PROPOSED TRANSFORMER

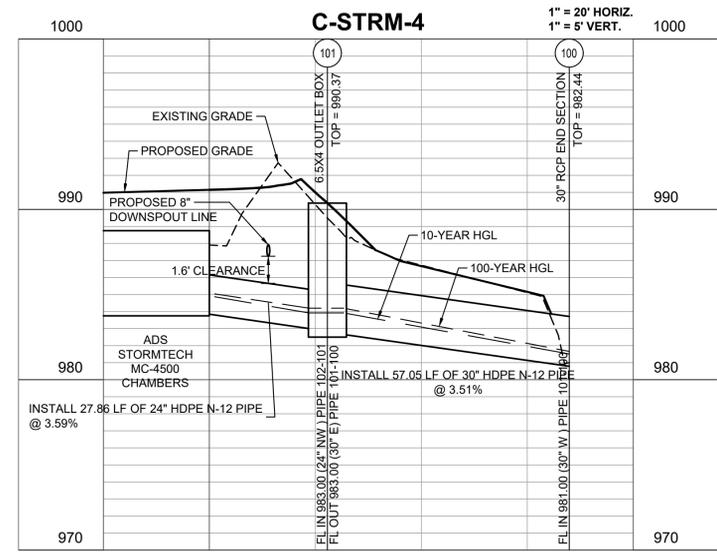
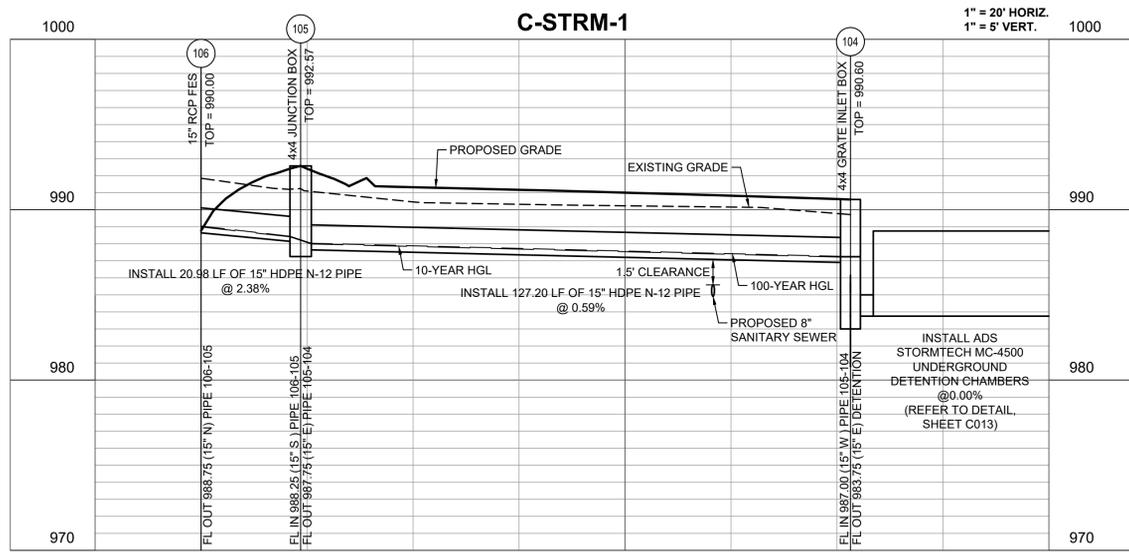
- UTILITY PLAN KEY NOTES**
- INSTALL CONCRETE PLUG AND ABANDON EXISTING WATER LINE IN PLACE
 - REMOVE EXISTING FIRE HYDRANT AND INSTALL CONCRETE PLUG. ABANDON EXISTING WATER LINE IN PLACE
 - PUBLIC WATER MAIN EXTENSION TO BE DESIGNED UNDER SEPARATE COVER
 - INSTALL 1.5" WATER METER WITH METER PIT. REFER TO DETAIL 9, SHEET C010
 - INSTALL 2" TYPE K COPPER SERVICE LINE. REFER TO DETAILS 5 AND 11, SHEET C010
 - INSTALL VAULT FOR DOUBLE DETECTOR CHECK VALVE. BACKFLOW VAULT SUMP SHALL BE DRAINED BY DAYLIGHT VIA A 3" SDR-26 PVC PIPE. FIRE LINE SHALL BE 6" SCHEDULE 40 BLACK STEEL TO BACKFLOW PREVENTER. REFER TO DETAIL 10, SHEET C010
 - INSTALL FIRE HYDRANT, ALL YELLOW. PER CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL SECTION 3901.Q. REFER TO DETAIL 8, SHEET C010
 - INSTALL TRANSFORMER WITH CONCRETE PAD FOOTING
 - INSTALL 8" SDR-26 PVC DOWNSPOUT COLLECTOR STORM LINE AS SHOWN. REFER TO DETAILS 5 AND 11, SHEET C010
 - INSTALL ADS STORMTECH MC-4500 UNDERGROUND DETENTION CHAMBERS WITH ISOLATOR ROW AND END CAPS IN LAYOUT AS SHOWN, OR APPROVED EQUAL. REFER TO ADS STORMTECH MC-4500 DETAIL, SHEET C009C
 - INSTALL 6" SDR-26 PVC SANITARY SEWER LINE AND TIE IN TO EXISTING SANITARY SEWER LINE AT LOCATION SHOWN
 - INSTALL UNDERGROUND ELECTRICAL CONDUIT LINE AS SHOWN
 - INSTALL CUT-IN WYE SANITARY CONNECTION WITH STUB. REFER TO DETAIL 12, SHEET C010
 - INSTALL 3.75' X 2.5' PERMANENT MODOT TYPE 3 ROCK DITCH LINER PAD
 - INSTALL FIRE HYDRANT, YELLOW BARREL WITH SILVER BONNET. PER CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL SECTION 3901.Q. REFER TO DETAIL 8, SHEET C010
 - INSTALL 2" TYPE K COPPER WATER LINE. REFER TO DETAILS 5 AND 11, SHEET C010
 - INSTALL 1.5" TYPE K COPPER WATER SERVICE LINE. REFER TO DETAILS 5 AND 11, SHEET C010
 - INSTALL 1.5" TYPE K COPPER WATER SERVICE LINE. REFER TO DETAILS 5 AND 11, SHEET C010
 - INSTALL FDC AT PROPOSED LOCATION WITH A KNOX BOX 6" AFF OVER THE FDC



Drawing name: K:\KAC_L\2024\42000_Capital Builders Lee's Summit\2 Design\DWG\Plan\Sheet\C006 - UTILITY & STORMWATER PLAN.dwg Apr 29, 2024 2:58pm by: logan.eggen
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Lee's Summit, Missouri
05/08/2024



PIPE SIZING CALCULATIONS - 10-YEAR EVENT

LineNo.	InletID	RunoffCoeff (C)	DrainageArea (ac)	IncrCxA	InletTime (min)	TotalArea (ac)	TotalCxA	Tc (min)	iInlet (in/hr)	iSys (in/hr)	IncrQ (cfs)	FlowRate (cfs)	LineID	InvertUp (ft)	InvertDn (ft)	LineLength (ft)	LineSlope (%)	LineSize (in)	n-valuePipe	User StaDn (ft)	CapacityFull (cfs)	VelAve (ft/s)	HGLUp (ft)	HGLDn (ft)
1	105	0.00	0.00	0	0.0	0.07	0.05	6.1	0.00	7.03	0.00	0.37	PIPE 105-104	987.75	987.00	127.201	0.59	15	0.012	25.99	5.37	2.40	987.99	987.22
2	106	0.75	0.07	0.05	5.0	0.07	0.05	5.0	7.34	7.34	0.39	0.39	PIPE 106-105	988.75	988.25	20.981	2.38	15	0.012	0.00	10.80	3.23	988.99	988.41
3	201	0.00	0.00	0	0.0	0.30	0.27	7.4	0.00	6.69	0.00	1.82	PIPE 201-102	984.94	983.67	63.923	1.99	15	0.012	22.02	9.88	4.88	985.48	984.03
4	202	0.90	0.26	0.23	5.0	0.26	0.23	5.0	7.34	7.34	1.72	1.72	PIPE 202-201	986.62	986.43	19.454	0.98	15	0.012	0.00	6.91	4.11	987.14	986.86
5	301	0.95	0.04	0.04	5.0	0.04	0.04	5.0	7.34	7.34	0.28	0.28	PIPE 301-201	987.00	986.34	33.104	1.99	15	0.012	0.00	9.88	2.83	987.20	986.48
6	101	0.00	0.00	0	0.0	0.82	0.78	5.2	0.00	7.27	1.62	7.66	PIPE 101-100	983.00	981.00	57.051	3.51	30	0.012	0.00	83.19	7.62	983.92	981.51
7	UG DET.	0.95	0.82	0.78	5.0	0.82	0.78	5.0	7.34	7.34	6.09	6.09	PIPE 102-101	984.00	983.00	27.863	3.59	24	0.012	0.00	46.42	4.48	984.87	983.92

PIPE SIZING CALCULATIONS - 100-YEAR EVENT

LineNo.	InletID	RunoffCoeff (C)	DrainageArea (ac)	IncrCxA	InletTime (min)	TotalArea (ac)	TotalCxA	Tc (min)	iInlet (in/hr)	iSys (in/hr)	IncrQ (cfs)	FlowRate (cfs)	LineID	InvertUp (ft)	InvertDn (ft)	LineLength (ft)	LineSlope (%)	LineSize (in)	n-valuePipe	User StaDn (ft)	CapacityFull (cfs)	VelAve (ft/s)	HGLUp (ft)	HGLDn (ft)
1	105	0.00	0.00	0	0.0	0.07	0.05	5.8	0.00	10.02	0.00	0.53	PIPE 105-104	987.75	987.00	127.201	0.59	15	0.012	25.99	5.37	2.66	988.03	987.26
2	106	0.75	0.07	0.05	5.0	0.07	0.05	5.0	10.32	10.32	0.54	0.54	PIPE 106-105	988.75	988.25	20.981	2.38	15	0.012	0.00	10.80	3.57	989.04	988.44
3	201	0.00	0.00	0	0.0	0.30	0.27	6.7	0.00	9.69	0.00	2.64	PIPE 201-102	984.94	983.67	63.923	1.99	15	0.012	22.02	9.88	5.45	985.59	984.11
4	202	0.90	0.26	0.23	5.0	0.26	0.23	5.0	10.32	10.32	2.41	2.41	PIPE 202-201	986.62	986.43	19.454	0.98	15	0.012	0.00	6.91	4.55	987.24	986.94
5	301	0.95	0.04	0.04	5.0	0.04	0.04	5.0	10.32	10.32	0.39	0.39	PIPE 301-201	987.00	986.34	33.104	1.99	15	0.012	0.00	9.88	3.13	987.24	986.51
6	101	0.00	0.00	0	0.0	0.82	0.78	5.2	0.00	10.25	4.28	12.77	PIPE 101-100	983.00	981.00	57.051	3.51	30	0.012	0.00	83.19	8.87	984.20	981.66
7	UG DET.	0.95	0.82	0.78	5.0	0.82	0.78	5.0	10.32	10.32	8.54	8.54	PIPE 102-101	984.00	983.00	27.863	3.59	24	0.012	0.00	46.42	4.75	985.04	984.20

STORM SEWER CONSTRUCTION NOTES

- PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE OR TO THE END OF END SECTION. ALL PIPES SHALL BE FIELD STAKED TO THE INSIDE WALL FACE OF THE STRUCTURE.
- ALL PIPE SHALL BE PLACED IN TRENCH CONDITIONS. PLACE A MINIMUM OF 2 FEET OF FILL OVER PROPOSED PIPE BEFORE TRENCHING AND PIPE INSTALLATION. PROPOSED FILL SHALL BE PLACED IN ACCORDANCE WITH PROJECT REQUIREMENTS.
- UTILITY LINES AND STRUCTURES IN FILL AREAS BELOW PIPE GRADE SHALL NOT BE CONSTRUCTED UNTIL ALL CONSOLIDATION OF THE FILL IS COMPLETE AND SO APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER.
- THE DIMENSIONS FOR ALL STRUCTURES ARE FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE.
- STORM SEWER PIPE SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
 - REINFORCED CONCRETE PIPE (RCP), CLASS III PER ASTM C-76, WITH "O-RING" OR SINGLE OFFSET RUBBER GASKETED JOINT (TYLOX SUPERSEAL OR AN APPROVED EQUAL).
 - ALL REINFORCING STEEL SHALL COMPLY WITH ASTM-615 GRADE 60.
 - ALL CURB INLETS AND OTHER STRUCTURES SET AT LOW POINTS ARE TO BE SET LEVEL. ALL OTHER CURB INLETS ARE TO BE SET WITH THE GRADE OF THE TOP OF CURB OR PAVEMENT.
 - ALL HYDRAULIC GRADE LINES (HGL) SHOWN ARE FOR THE 10 AND 100-YEAR STORM.
 - PRECAST STRUCTURES MAY BE USED AT CONTRACTOR'S OPTION. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED CONCRETE INVERT FROM INVERT IN TO INVERT OUT.
 - THE LIDS OF ALL PRECAST STRUCTURES SHALL BE GROUTED TO THE TOP OF THE WALLS.
 - NORTHING AND EASTINGS SHOWN ARE TO CENTER OF STRUCTURE, OR END OF END SECTION.
- THE FIRST DIMENSION SHOWN IS THE "L" DIMENSION AND THE SECOND IS THE "W" DIMENSION. SEE DETAILS.
- ALL HDPE PIPE SHALL BE IN ADS N-12, OR APPROVED EQUAL, MEETING AASHTO M294, TYPE S, OR ASTM F2306. THE PIPE SHALL HAVE A SMOOTH INTERIOR AND ANNUALR EXTERIOR CORRUGATIONS. PIPE JOINTS SHALL BE JOINED USING A BELL & SPIGOT JOINT MEETING AASHTO M252, AASHTO M294, OR ASTM F2306. THE JOINT SHALL BE WATERTIGHT, ACCORDING TO THE REQUIREMENTS OF ASTM D 3212, AND GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477. GASKETS SHALL BE INSTALLED BY THE PIPE MANUFACTURER AND COVERED WITH A REMOVABLE WRAP TO ENSURE THE GASKET IS FREE FROM DEBRIS. A JOINT LUBRICANT SUPPLIED BY THE MANUFACTURER SHALL BE USED ON THE GASKET AND BELL DURING ASSEMBLY.
- FITTINGS FOR PLASTIC PIPE SHALL CONFORM TO AASHTO M252, AASHTO M294, OR ASTM F2306. ALL TEES SHALL BE DUAL WALL REDUCING TEES CONSISTENT WITH THE ADS N-12 PIPE WATERTIGHT CONNECTIONS.

Drawing name: K:\KAC_LITE\2024\4000_Capital Builders Lee's Summit\2023 Design\DWG\Stormwater\Profile - Stormwater Plan & Profile.dwg, Apr 26, 2024, 2:58pm, by: logan.green
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SCALE: AS NOTED
DESIGNED BY: LLG
DRAWN BY: LLG
CHECKED BY: PUJ

STATE OF MISSOURI
PATRICK JOYCE
NUMBER
PE-20080057
4/29/2024
PROFESSIONAL ENGINEER

CAPITAL BUILDERS

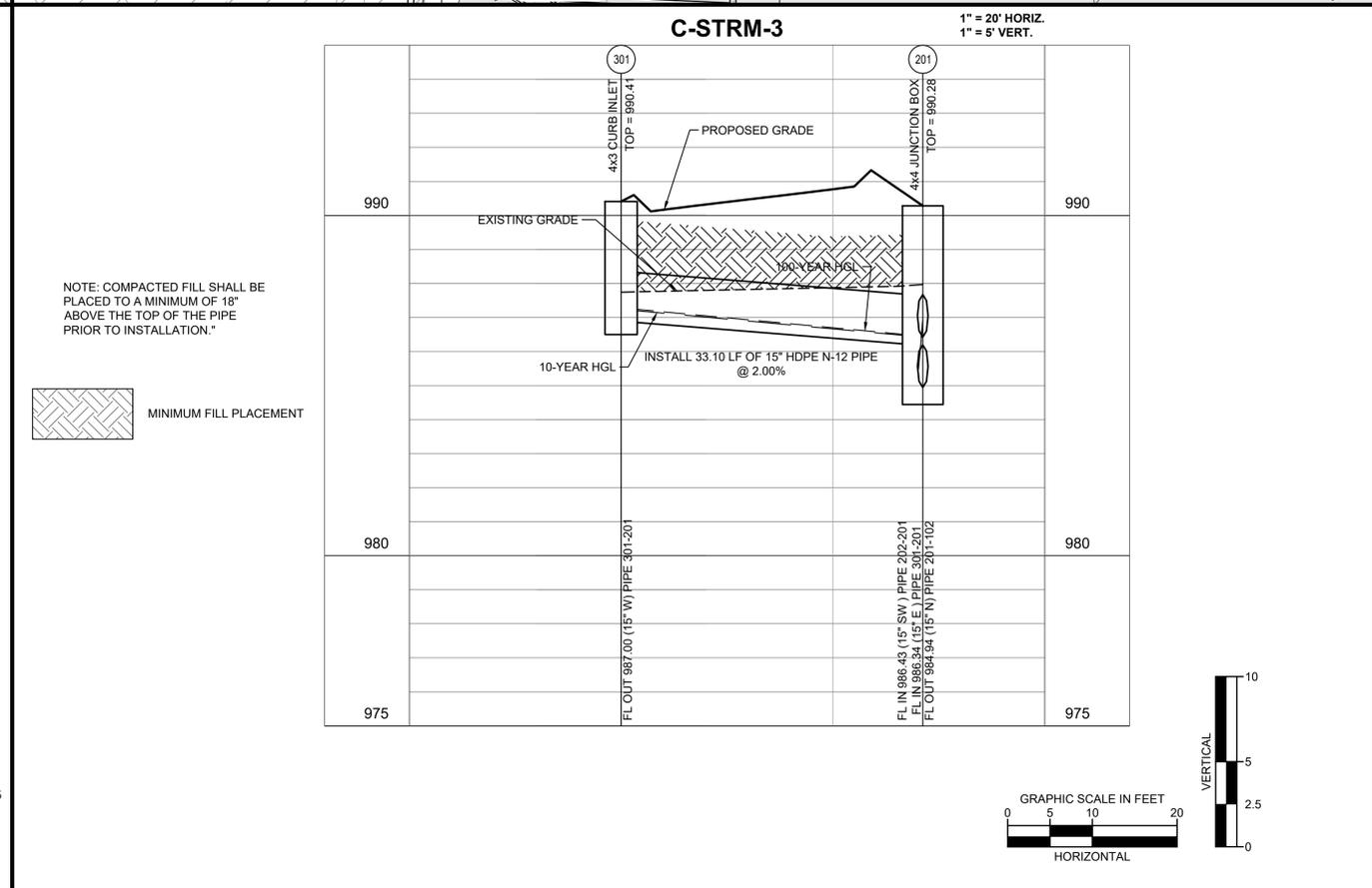
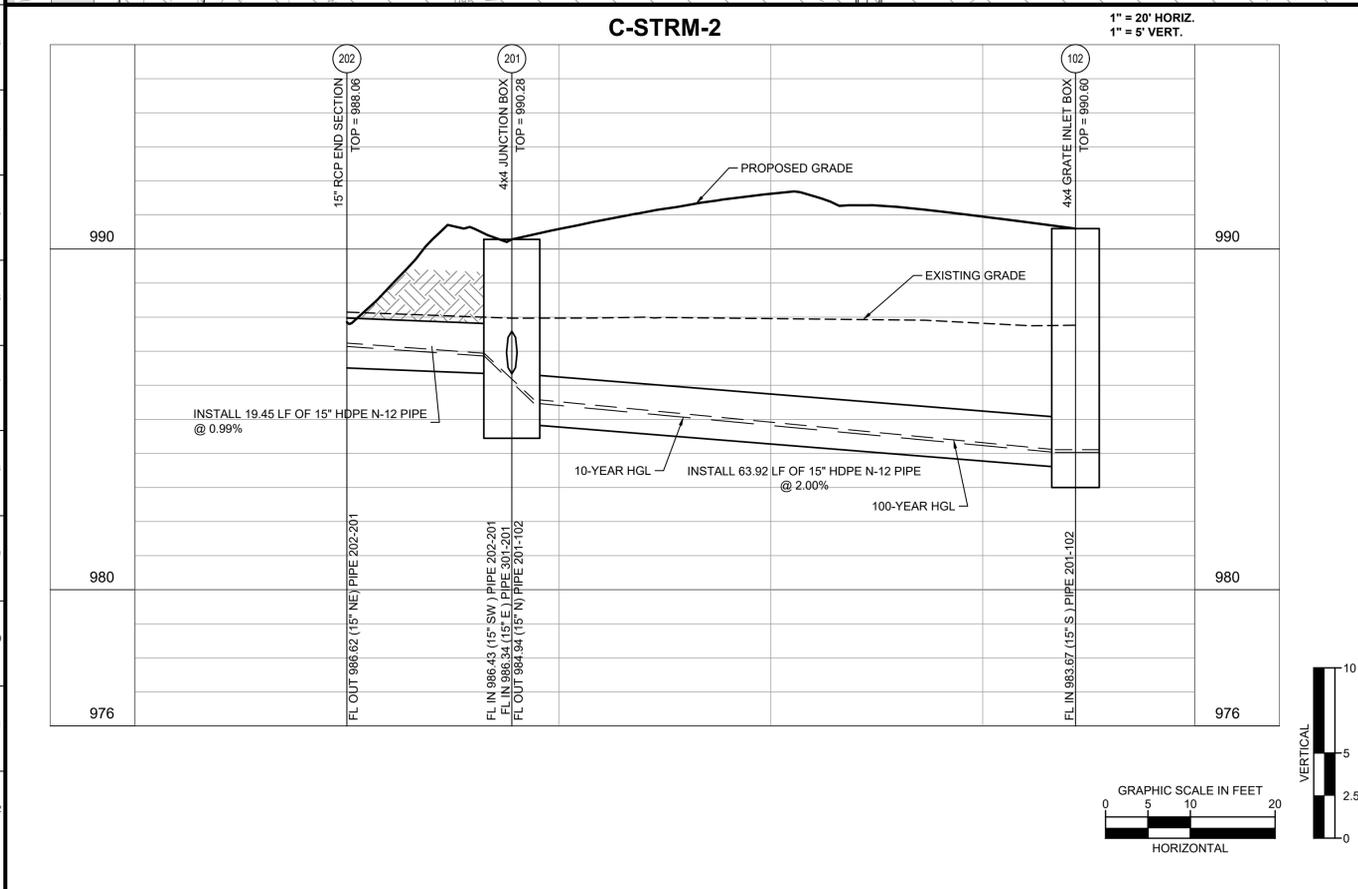
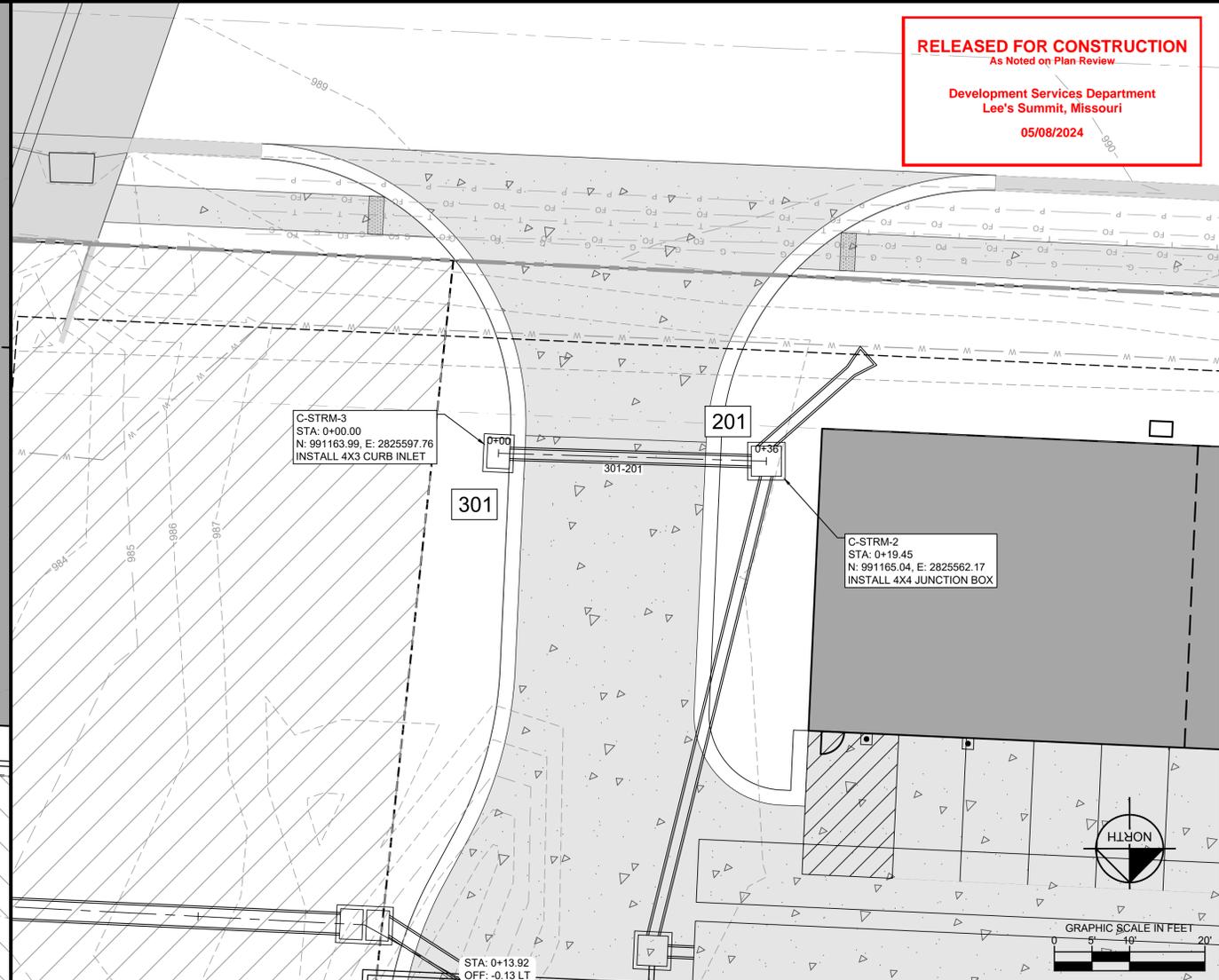
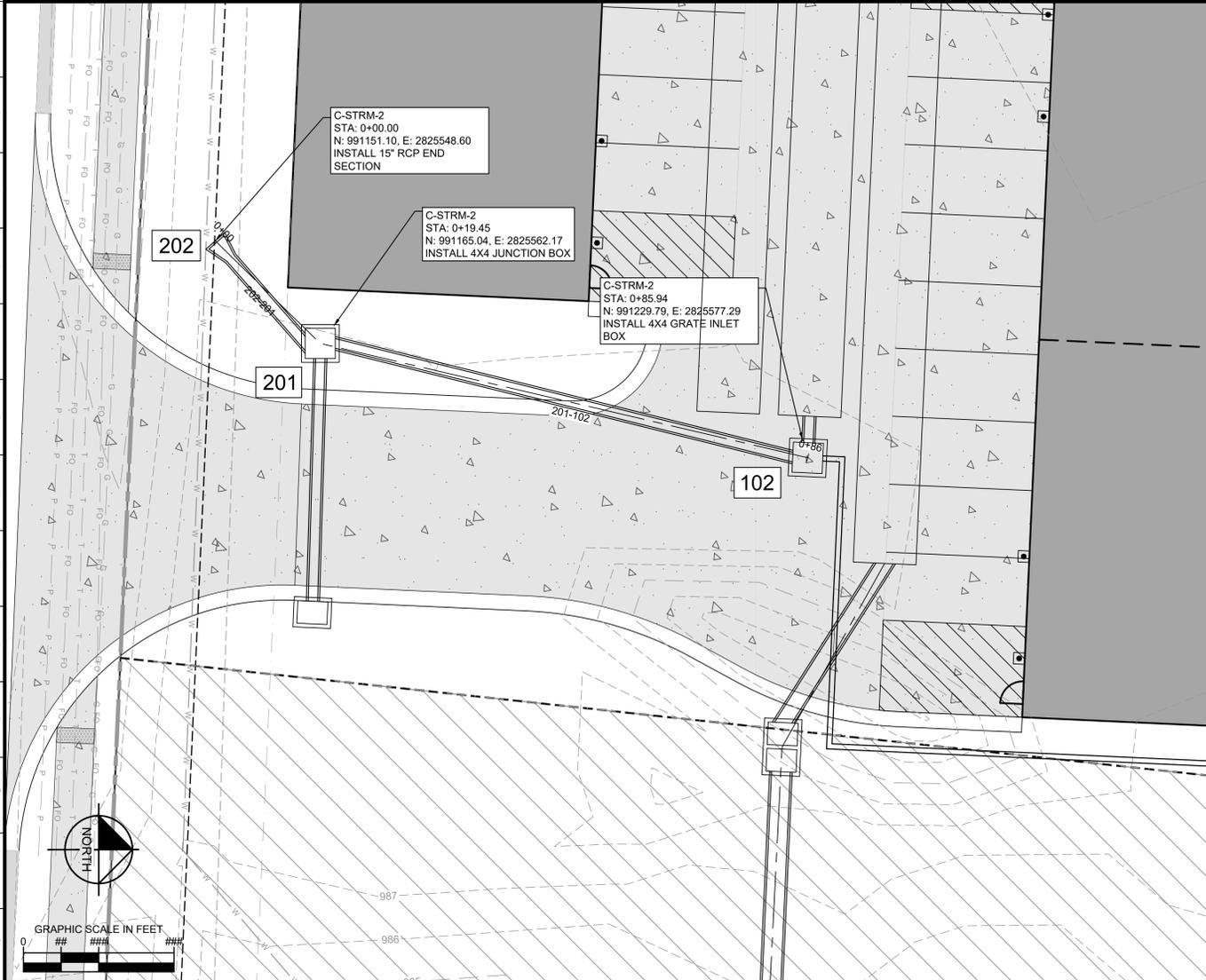
STORMWATER PLAN & PROFILE

LEE'S SUMMIT FLEX SPACE
60 SE THOMPSON DR
LEE'S SUMMIT, MISSOURI 64081

ORIGINAL ISSUE: 4/29/2024
KHA PROJECT NO. 268442000
SHEET NUMBER
C007

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Development Services Department
Lee's Summit, Missouri
05/08/2024



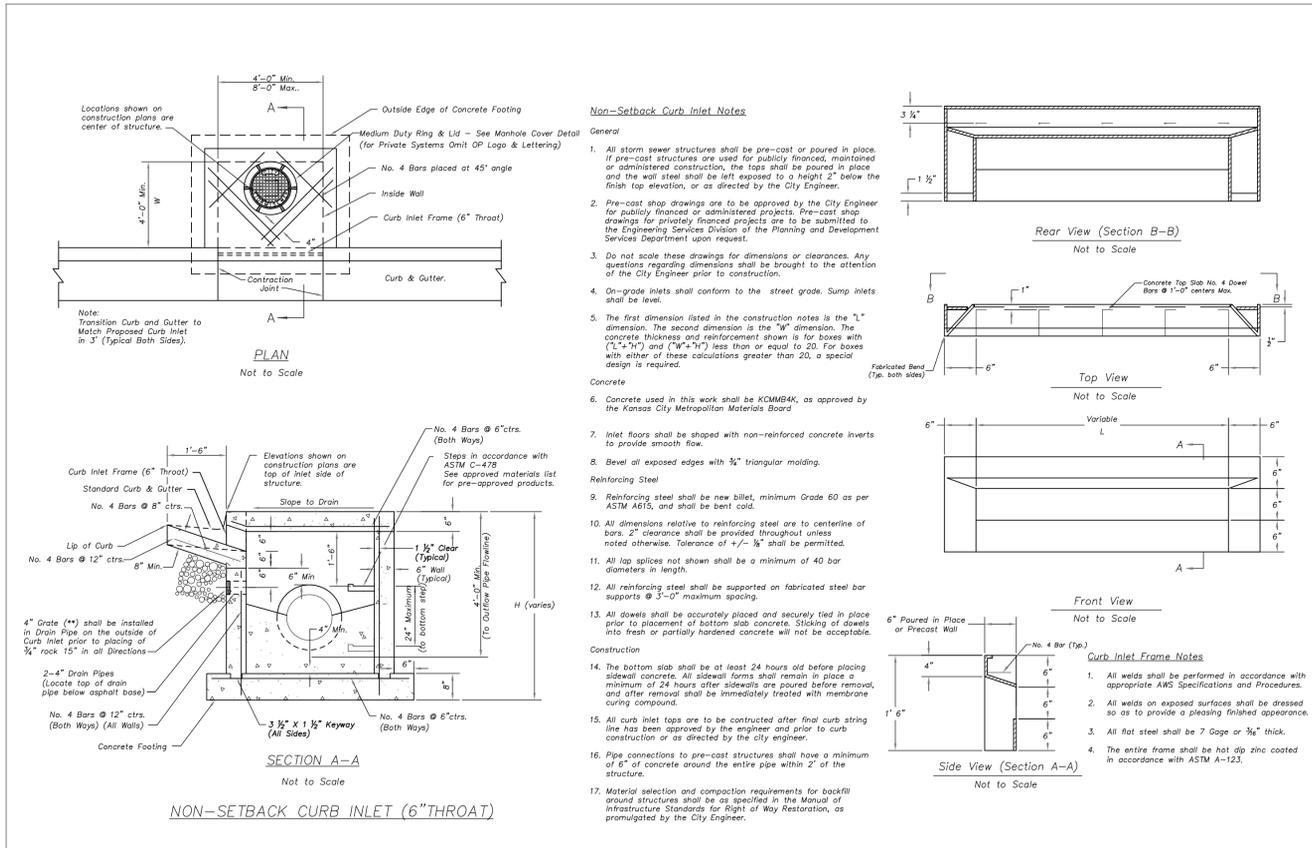
Drawing name: K:\KAC_L\26842000_Capital Builders Lee's Summit Flex Space2 Design\DWG\Stormwater\Profile - Stormwater Plan & Profile.dwg C08 - Stormwater Plan & Profile.dwg Apr 26, 2024 2:58pm by: loganrhen

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	CAPITAL BUILDERS STORMWATER PLAN & PROFILE
LEE'S SUMMIT FLEX SPACE <small>60 SE THOMPSON DR LEE'S SUMMIT, MISSOURI 64081</small>	
ORIGINAL ISSUE: 4/29/2024 KHA PROJECT NO. 268442000 SHEET NUMBER: C008	

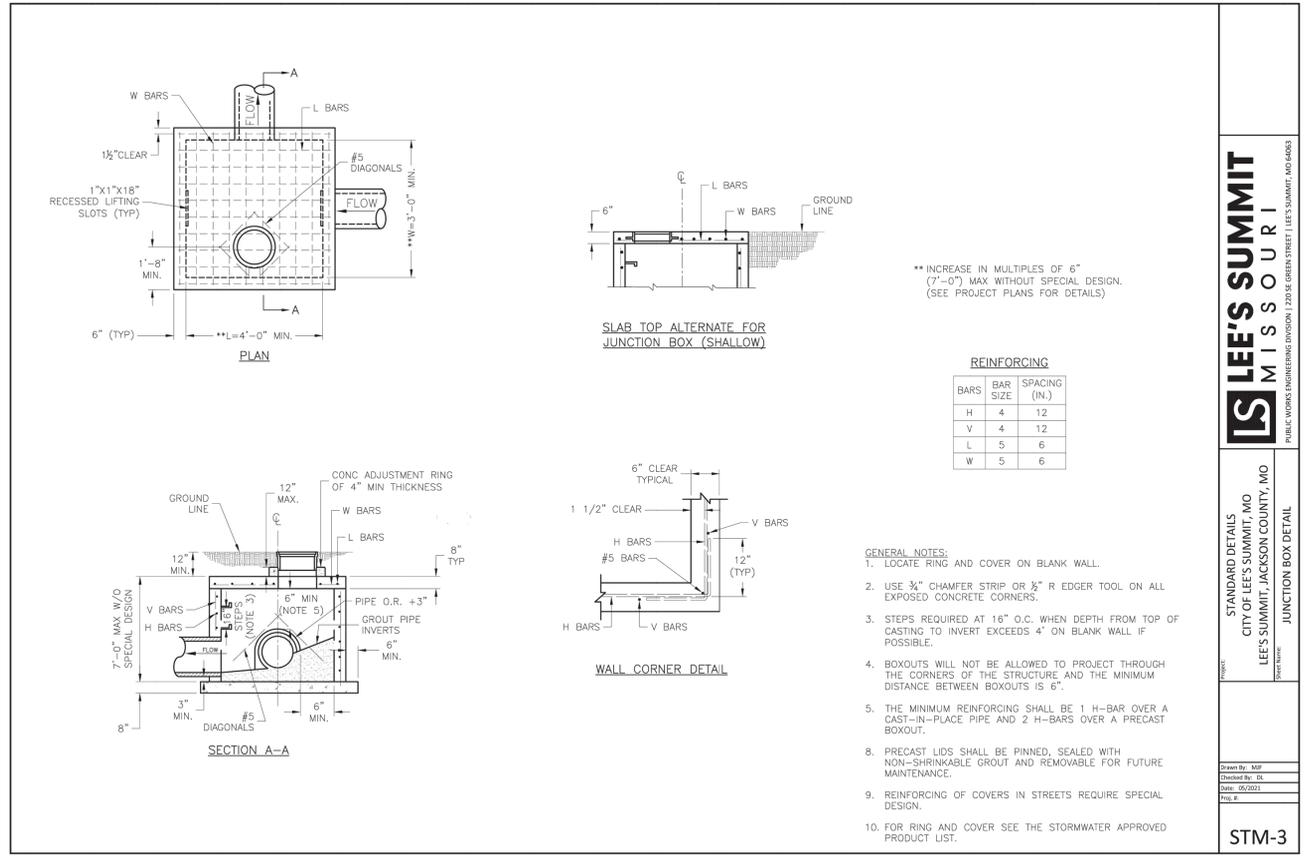
Drawing name: K:\KHC_L\26842000_Capital Builders Lee's Summit Flex Space\2 Design\DWG\Plan\Sheet\DWG\C009B - DETAILS - Apr 29, 2024, 2:58pm, by: Logan Green
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05/08/2024



2 NON-SETBACK CURB INLET DETAIL
SCALE: NOT TO SCALE



3 JUNCTION BOX DETAIL
SCALE: NOT TO SCALE

LEE'S SUMMIT MISSOURI

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

JUNCTION BOX DETAIL

STM-3

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<p>SCALE: AS NOTED</p> <p>DESIGNED BY: LLG</p> <p>DRAWN BY: LLG</p> <p>CHECKED BY: PUJ</p>	<p>CAPITAL BUILDERS</p> <p>DETAILS</p>
<p>LEE'S SUMMIT FLEX SPACE</p> <p style="font-size: 8px;">60 SE THOMPSON DR LEE'S SUMMIT, MISSOURI 64081</p>	<p>ORIGINAL ISSUE: 4/29/2024</p> <p>KHA PROJECT NO. 268442000</p> <p>SHEET NUMBER C009B</p>

MC-4500 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-4500.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS <1 MIN AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT²%, THE ASD IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-4500 CHAMBER SYSTEM

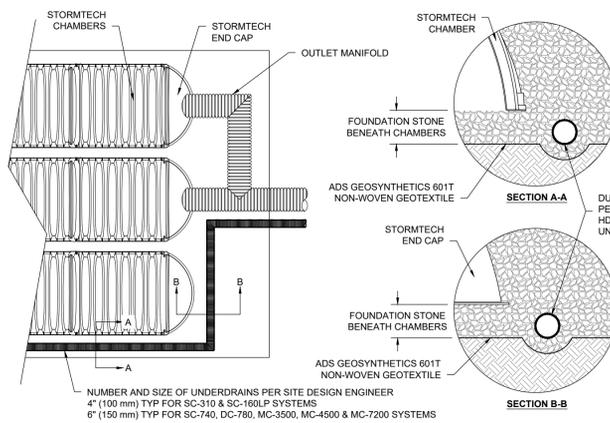
- STORMTECH MC-4500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-4500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOTTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
- STONE SHALL BE BROUGHT UP EVENLY AROUND CHAMBERS SO AS NOT TO DISTORT THE CHAMBER SHAPE. STONE DEPTHS SHOULD NEVER DIFFER BY MORE THAN 12" (300 mm) BETWEEN ADJACENT CHAMBER ROWS.
- STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIAL BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

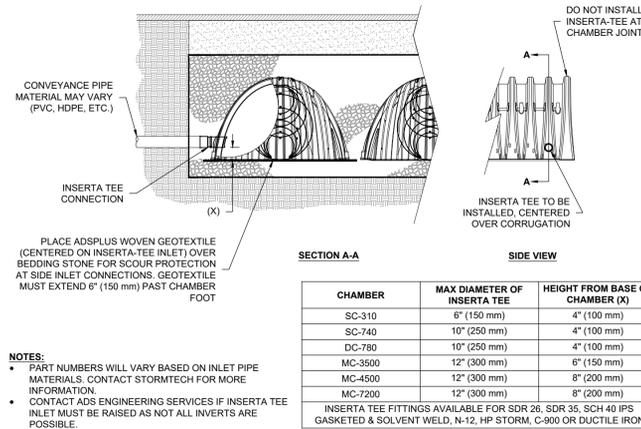
- STORMTECH MC-4500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER Tired LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

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

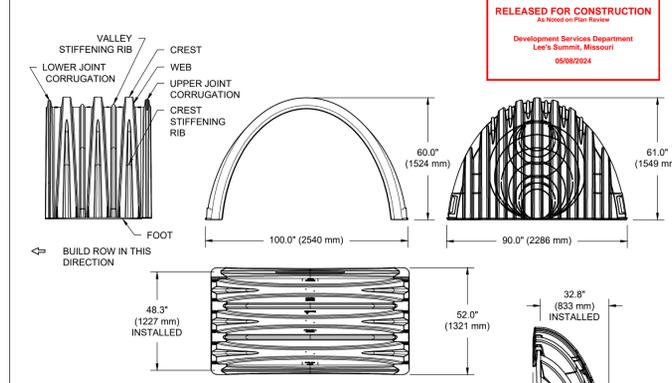
CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



5 UNDERDRAIN DETAIL



6 INSERTA-TEE SIDE INLET DETAIL



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	CHAMBER STORAGE	MINIMUM INSTALLED STORAGE*	WEIGHT (NOMINAL)
100.0" X 60.0" X 48.3" (2540 mm X 1524 mm X 1227 mm)	106.5 CUBIC FEET (3.01 m ³)	162.8 CUBIC FEET (4.60 m ³)	125.0 lbs. (56.7 kg)

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	END CAP STORAGE	MINIMUM INSTALLED STORAGE*	WEIGHT (NOMINAL)
90.0" X 61.0" X 32.8" (2286 mm X 1549 mm X 833 mm)	39.5 CUBIC FEET (1.12 m ³)	115.3 CUBIC FEET (3.28 m ³)	90 lbs. (40.8 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 12" (305 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B". PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T". END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W".

PART #	STUB	B	C
MC4500IEPP06T	6" (150 mm)	42.54" (1081 mm)	---
MC4500IEPP06B	---	---	0.86" (22 mm)
MC4500IEPP08T	8" (200 mm)	40.50" (1029 mm)	---
MC4500IEPP08B	---	---	1.01" (26 mm)
MC4500IEPP10T	10" (250 mm)	38.37" (975 mm)	---
MC4500IEPP10B	---	---	1.33" (34 mm)
MC4500IEPP12T	12" (300 mm)	35.69" (907 mm)	---
MC4500IEPP12B	---	---	1.55" (39 mm)
MC4500IEPP15T	15" (375 mm)	32.72" (831 mm)	---
MC4500IEPP15B	---	---	1.70" (43 mm)
MC4500IEPP18T	18" (450 mm)	29.36" (746 mm)	---
MC4500IEPP18B	---	---	1.97" (50 mm)
MC4500IEPP24T	24" (600 mm)	23.05" (585 mm)	---
MC4500IEPP24B	---	---	2.26" (57 mm)
MC4500IEPP24BW	---	---	2.95" (75 mm)
MC4500IEPP30BW	---	---	3.25" (83 mm)
MC4500IEPP42BW	---	---	3.55" (90 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL.

2 MC-4500 TECHNICAL SPECIFICATIONS

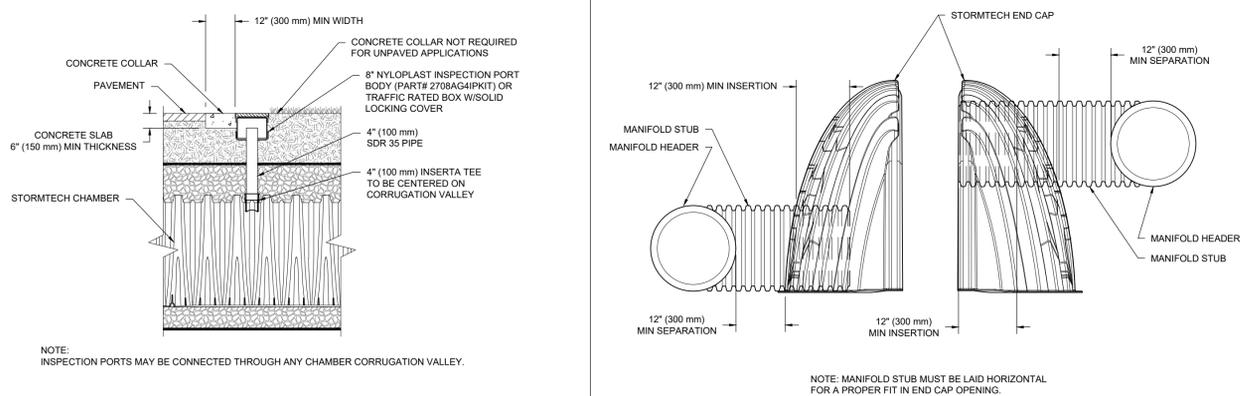
INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- INSPECTION PORTS (IF PRESENT).
 - REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN.
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED.
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG.
 - LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL).
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS USING A FLASHLIGHT. INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE.
 - MIRRORS OR POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY.
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE.
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED.
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN.
 - VACUUM STRUCTURE SUMP AS REQUIRED.
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

MC-4500 ISOLATOR ROW PLUS DETAIL

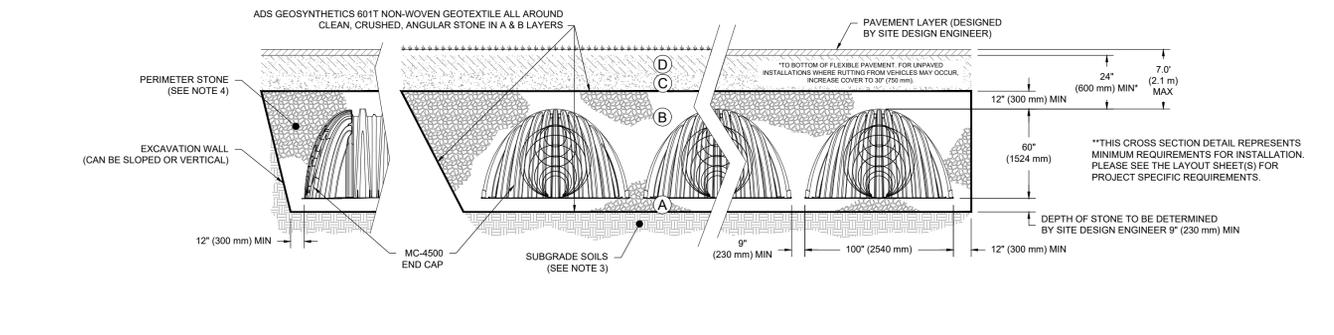


7 MC-SERIES END CAP INSERTION DETAIL

ACCEPTABLE FILL MATERIALS: STORMTECH MC-4500 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT	
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.	AASHTO M145 ¹ A-1, A-2.4, A-3 OR AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 4	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
 - ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101.
- MC-4500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT²%, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 MC-4500 CROSS SECTION DETAIL

4 4" PVC INSPECTION PORT DETAIL (MC SERIES CHAMBER)

DATE: PROJECT NO: NOT TO SCALE

DRAWN: REVIEWED: REV:

MC-4500 STANDARD DETAILS

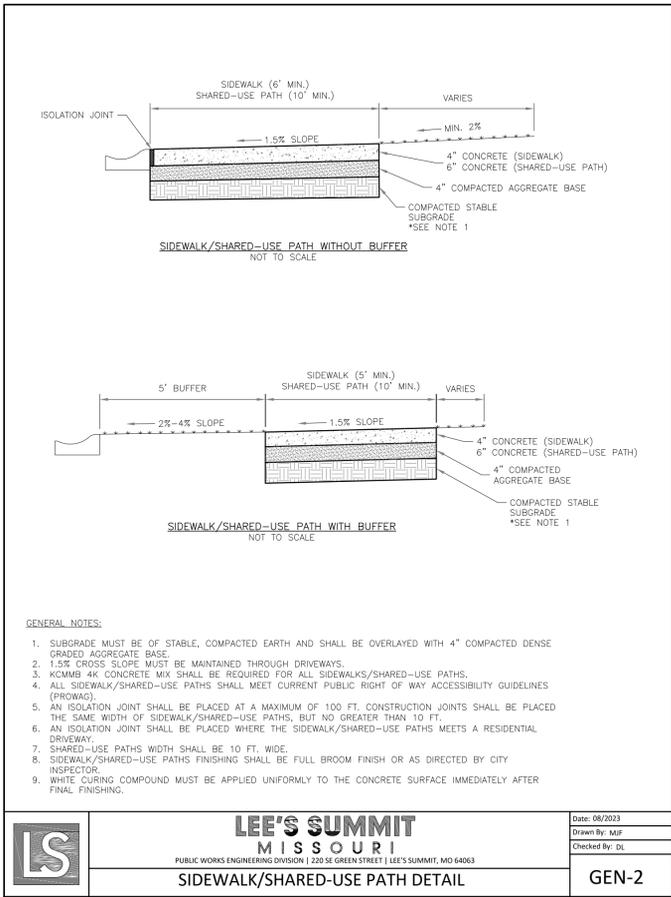
StormTech Chamber System 888-892-2694 | WWW.STORMTECH.COM

4640 TRUEMAN BLVD HILLIARD, OH 43026

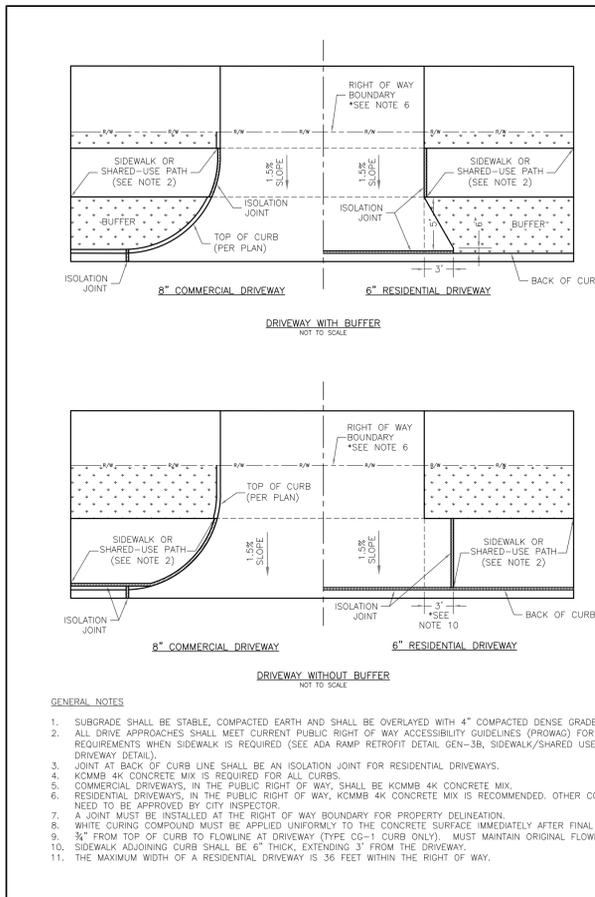
ADS Advanced Drainage Systems, Inc.

SHEET C009C

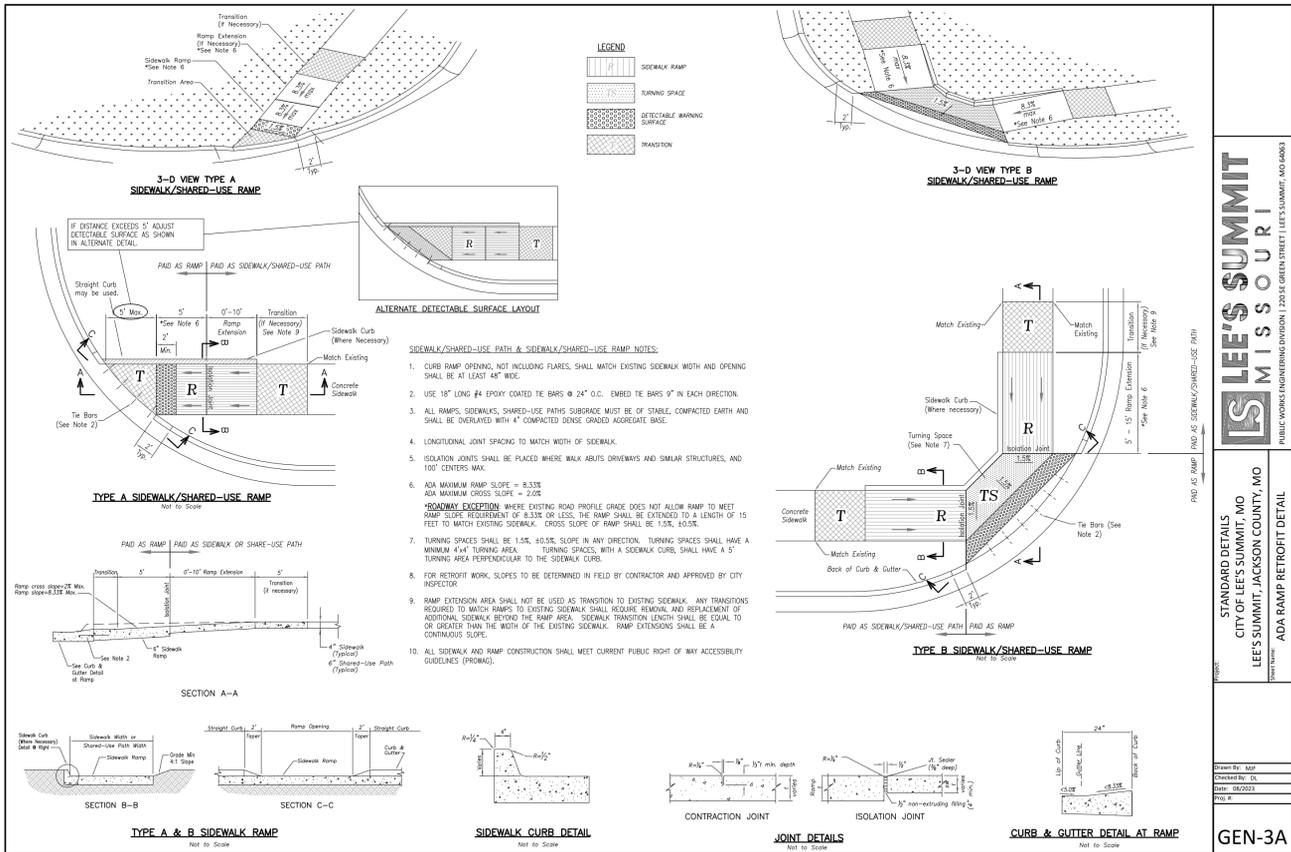
ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON REFERENCED STANDARDS. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. UNLESS THE PLANS ARE SIGNED AND SEALED BY THE SITE DESIGN ENGINEER, THE SITE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION AND SEALING THE DOCUMENT. IT IS THE SITE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEET OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.



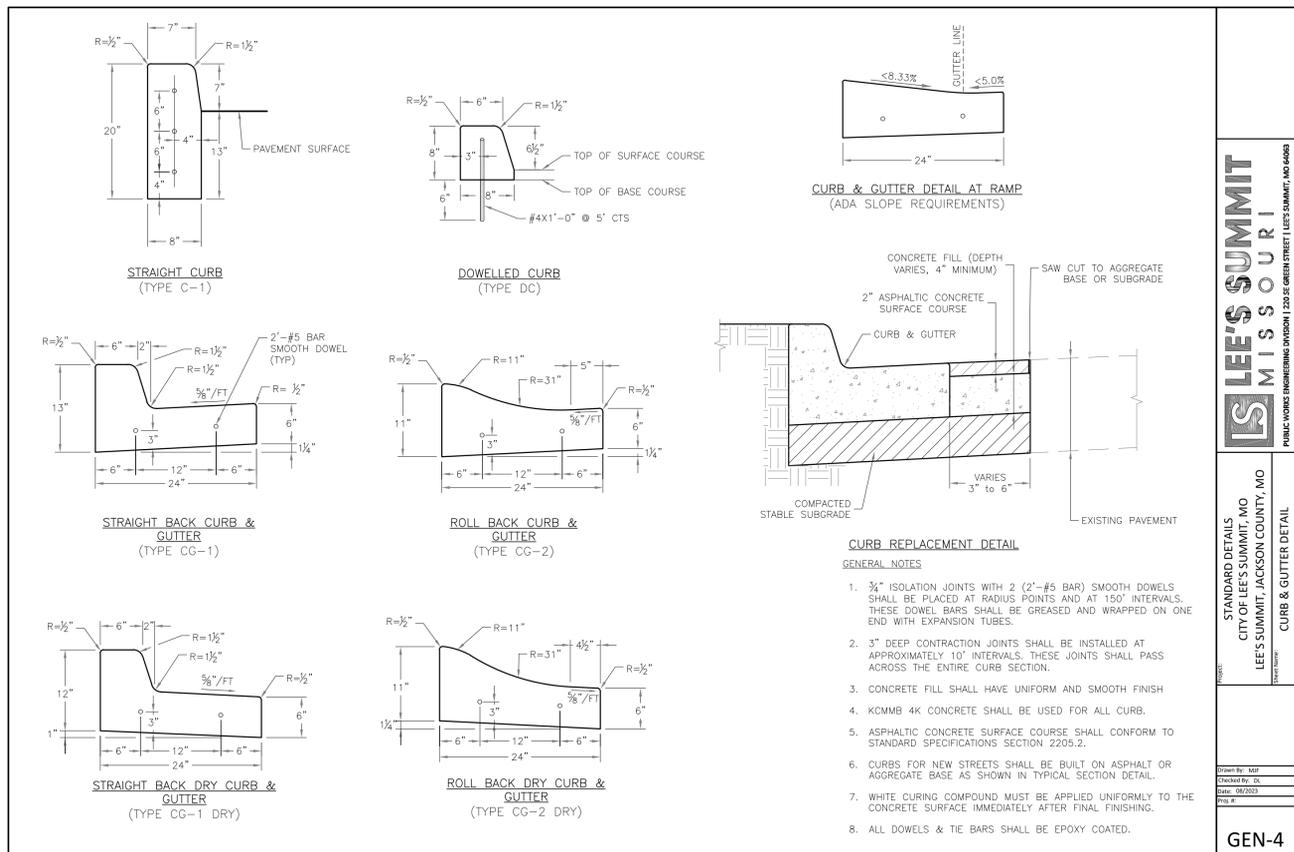
12 SIDEWALK WITH BUFFER DETAIL
SCALE: NOT TO SCALE



13 DRIVEWAY DETAIL
SCALE: NOT TO SCALE



14 TYPE A SIDEWALK ADA RAMP RETROFIT DETAIL
SCALE: NOT TO SCALE



15 STRAIGHT BACK CURB AND GUTTER DETAIL
SCALE: NOT TO SCALE

RELEASED FOR CONSTRUCTION
As Noted on Plan Review
Development Services Department
Lee's Summit, Missouri
05/08/2024

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 1200 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

GEN-1

Kimley Horn
805 PENNSYLVANIA AVENUE, SUITE 160
KANSAAS CITY, MO 64105
WWW.KIMLEY-HORN.COM

SCALE: AS NOTED
DESIGNED BY: LLG
DRAWN BY: LLG
CHECKED BY: PUJ

STATE OF MISSOURI
PATRICK JOYCE
Professional Engineer
No. 429702
4/29/2023

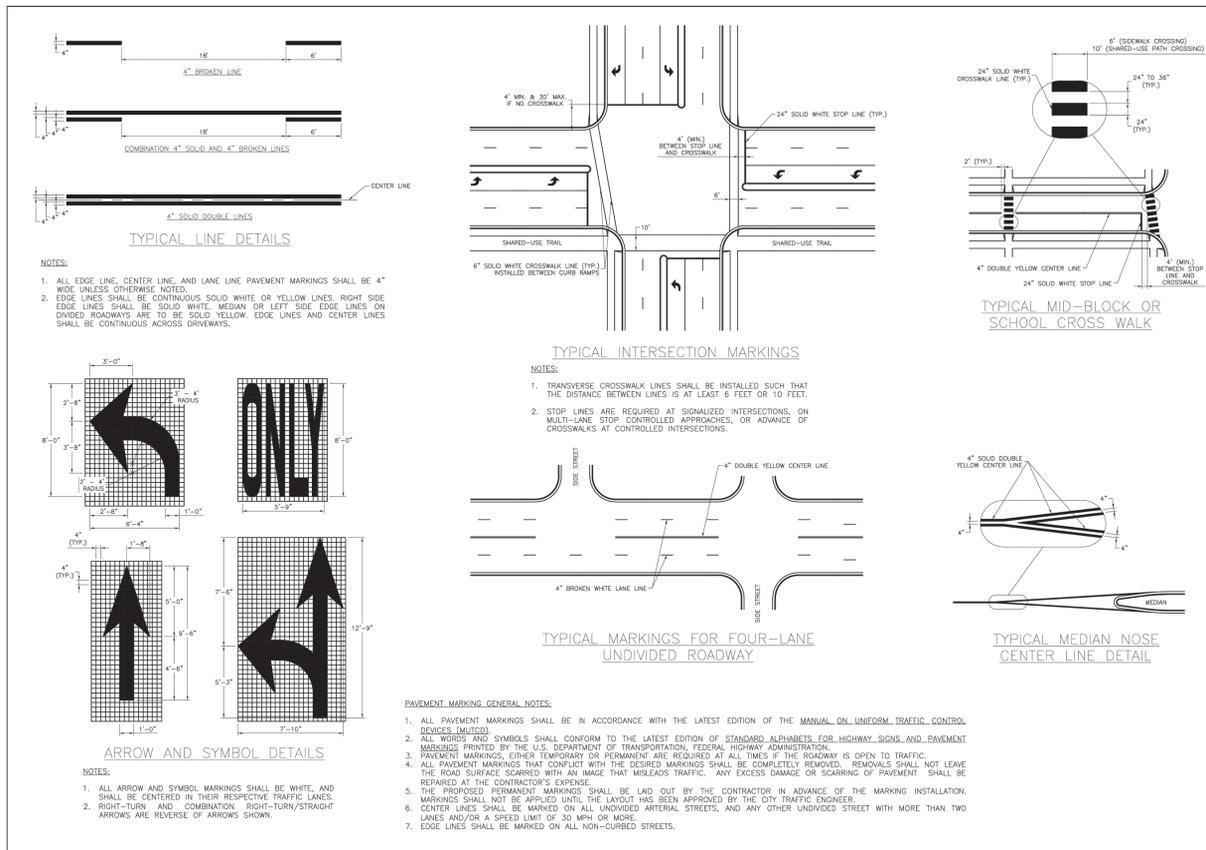
CAPITAL BUILDERS

DETAILS

LEE'S SUMMIT FLEX SPACE
60 SE THOMPSON DR
LEE'S SUMMIT, MISSOURI 64081

ORIGINAL ISSUE: 4/29/2024
KHA PROJECT NO. 268442000
SHEET NUMBER

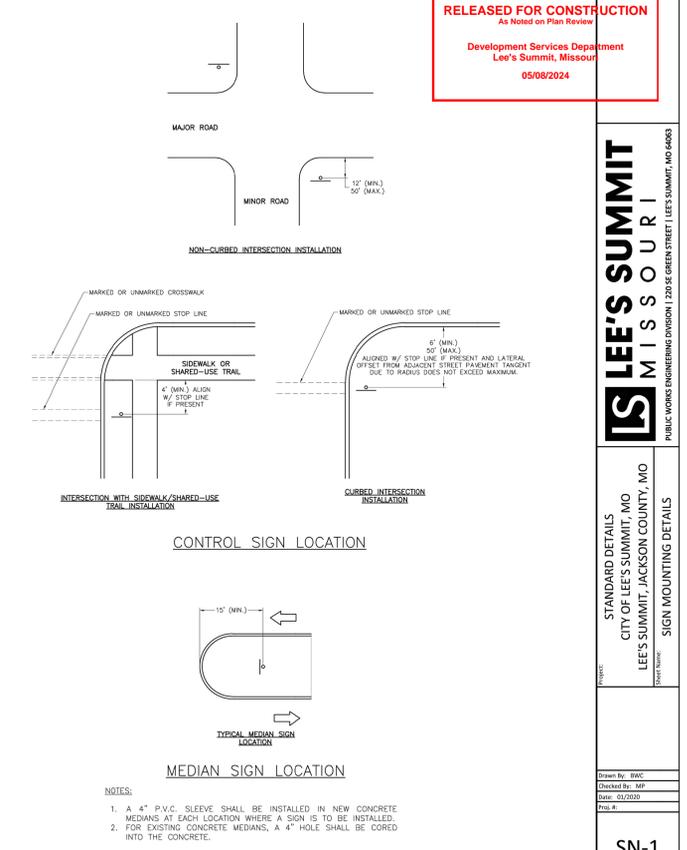
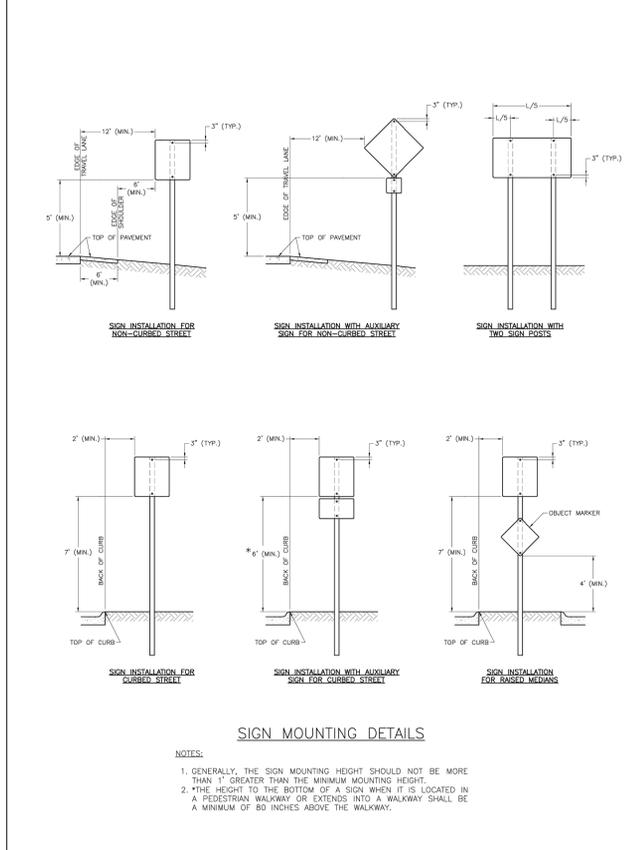
C011



LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION 1202 SE GREEN STREET | LEE'S SUMMIT, MO 64683

STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO
 ROADWAY MARKING DETAILS

Drawn By: BWC
 Checked By: MP
 Date: 02/20/20
 Proj #: PM-1



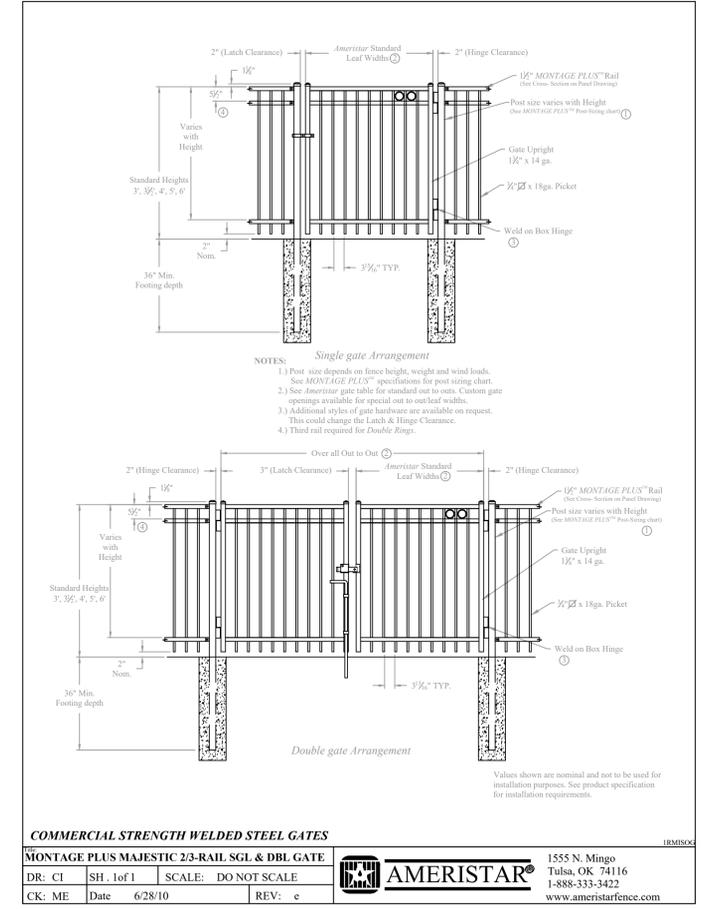
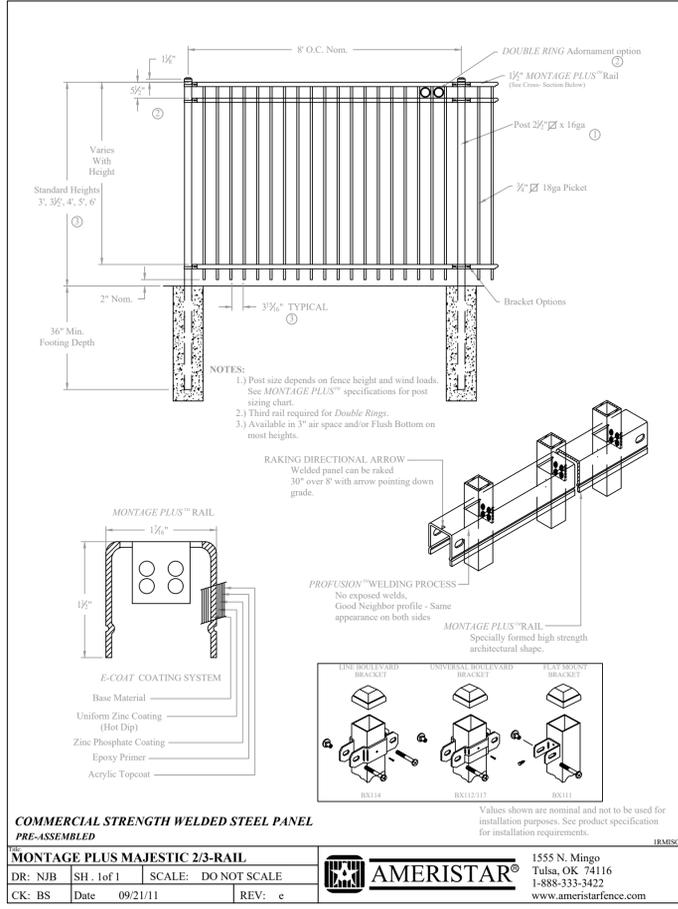
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 05/08/2024

LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION 1202 SE GREEN STREET | LEE'S SUMMIT, MO 64683

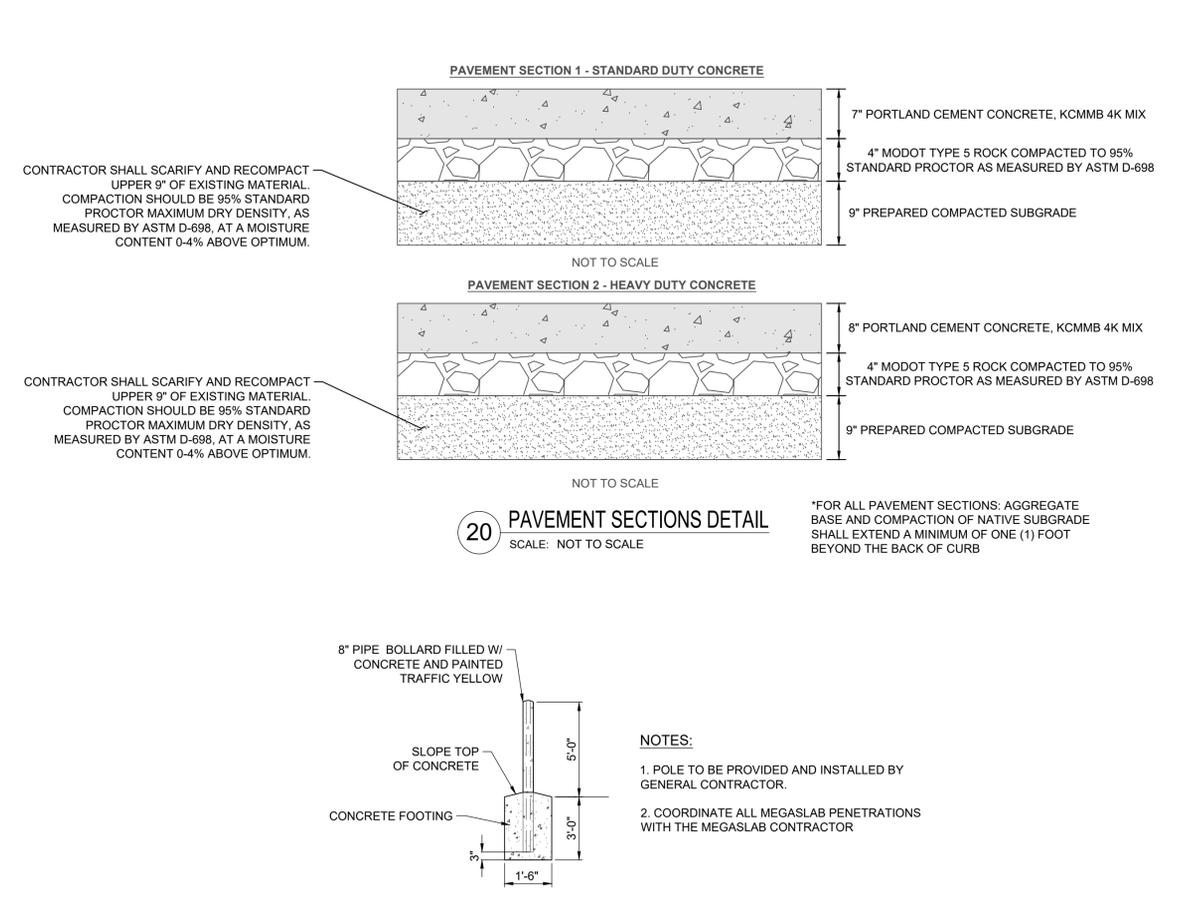
STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO
 SIGN MOUNTING DETAILS

Drawn By: BWC
 Checked By: MP
 Date: 02/20/20
 Proj #: SN-1

16 PAVEMENT MARKING ARROW AND SYMBOL DETAILS
 SCALE: NOT TO SCALE



17 SIGN MOUNTING DETAILS
 SCALE: NOT TO SCALE



Kimley»Horn
 2023 KIMLEY-HORN AND ASSOCIATES, INC.
 805 PENNSYLVANIA AVENUE, SUITE 160
 KANSAS CITY, MO 64105
 WWW.KIMLEY-HORN.COM

SCALE: AS NOTED
 DESIGNED BY: LLG
 DRAWN BY: LLG
 CHECKED BY: PUJ

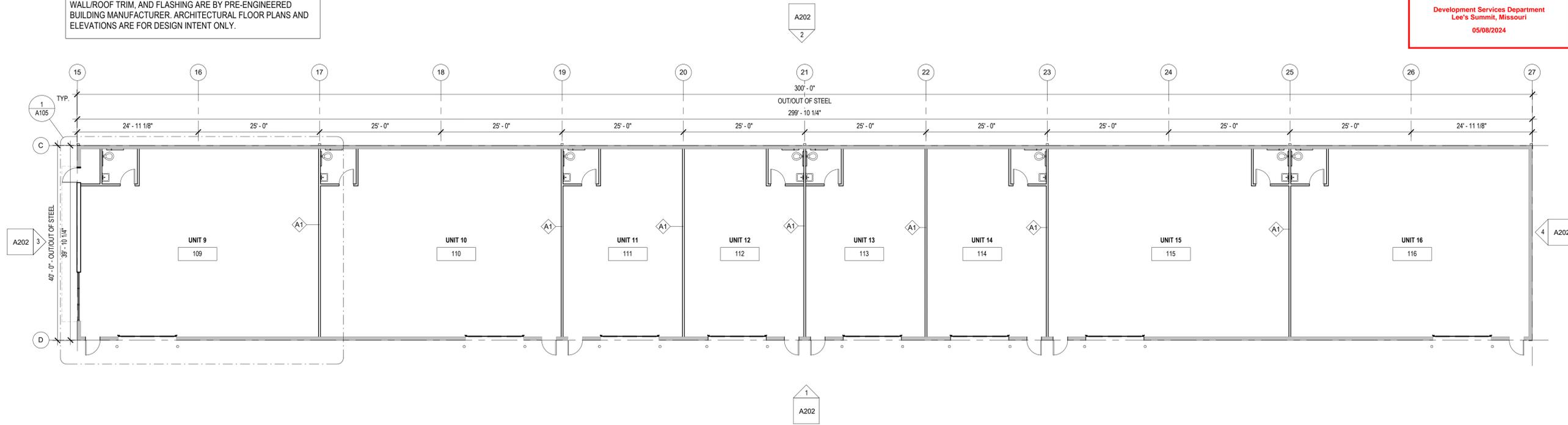
STATE OF MISSOURI
 PATRICK JOYCE
 LICENSE NUMBER PE-200900053
 EXPIRES 12/29/2024
 PROFESSIONAL ENGINEER

LEE'S SUMMIT FLEX SPACE
 60 SE THOMPSON DR
 LEE'S SUMMIT, MISSOURI 64081

ORIGINAL ISSUE: 4/29/2024
 KHA PROJECT NO: 268442000
 SHEET NUMBER: C012

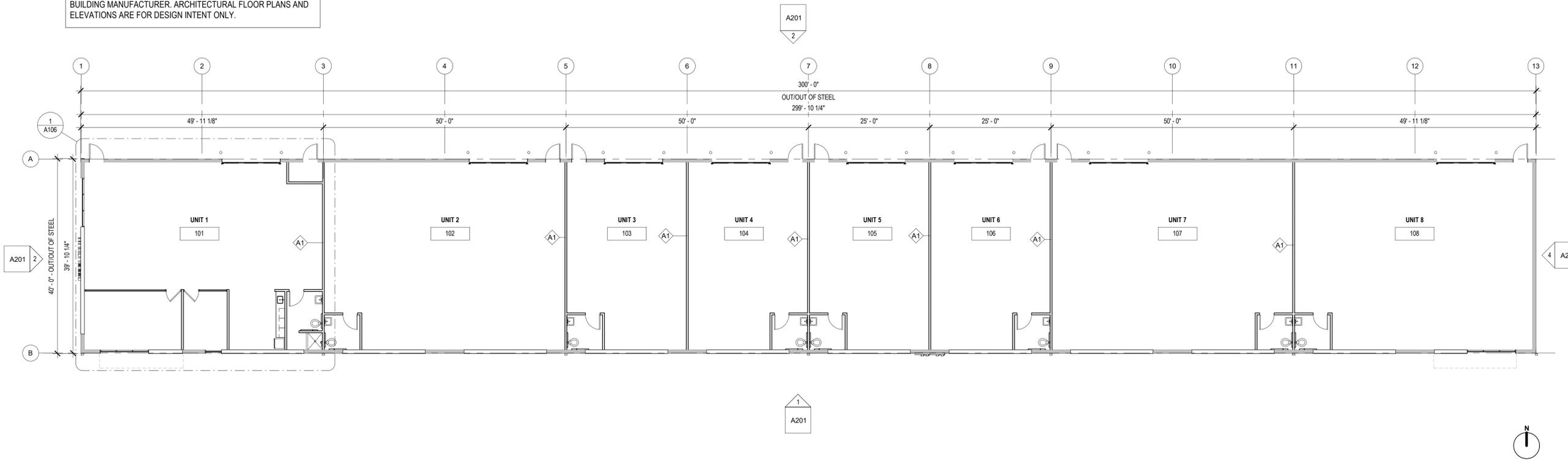
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05/08/2024



2 FLOOR PLAN - BUILDING B
3/32" = 1'-0"

NOTE: BUILDING ENCLOSURE INCLUDING STRUCTURAL FRAME, EXTERIOR WALLS, ROOF, INSULATION, GUTTERS, DOWNSPOUTS, WALL/ROOF TRIM, AND FLASHING ARE BY PRE-ENGINEERED BUILDING MANUFACTURER. ARCHITECTURAL FLOOR PLANS AND ELEVATIONS ARE FOR DESIGN INTENT ONLY.



1 FLOOR PLAN - BUILDING A
3/32" = 1'-0"

LEE'S SUMMIT FLEX
SPACES

604 E. Truman Blvd.
Lee's Summit, MO 64082

PROJECT NUMBER: 23092

CLIENT:
Capital Builders

FINAL DEVELOPMENT
PLAN

02.22.2024

ARCHITECT:
SixTwentyOne

REV.	DATE	ISSUE

ARCHITECT:

**six
twenty
one**

SixTwentyOne
1705 SUMMIT ST.
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www.sixtwentyone.com

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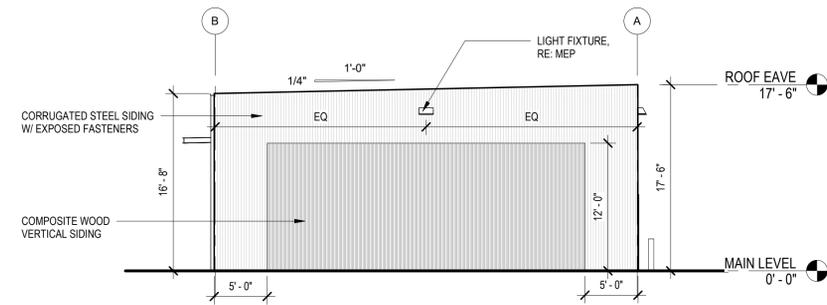
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FLOOR PLANS

Sheet Revision no.

A101

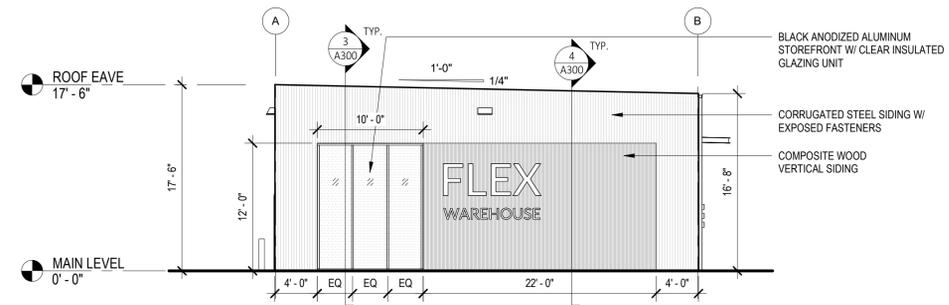
-  CORRUGATED STEEL SIDING: MBCI, PBC METAL WALL PANEL, MIDNIGHT BRONZE
-  COMPOSITE WOOD SIDING: NEWTECH WOOD, EUROPEAN SIDING, NORWEGIAN BOARD, PERUVIAN TEAK
-  STEEL TRIM



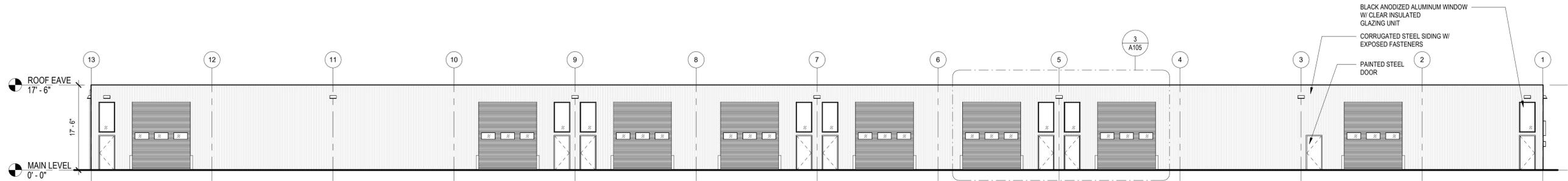
4 ELEVATION - BUILDING A (EAST)
1/8" = 1'-0"

- TOTAL WALL AREA: 683 SF
-  CORRUGATED STEEL SIDING 299 SF (44%)
-  COMPOSITE WOOD SIDING 264 SF (39%)
- STOREFRONT GLASS 120 SF (17%)

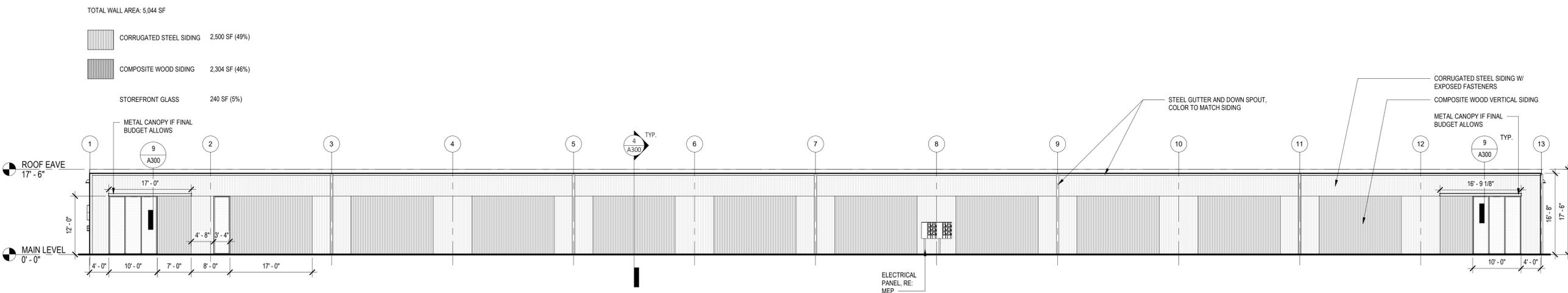
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05/08/2024



3 ELEVATION - BUILDING A (WEST)
1/8" = 1'-0"



2 ELEVATION - BUILDING A (NORTH)
3/32" = 1'-0"



1 ELEVATION - BUILDING A (SOUTH)
3/32" = 1'-0"

LEE'S SUMMIT FLEX SPACES
801 E. Truman Blvd.
Lee's Summit, MO 64082

PROJECT NUMBER: 23092
CLIENT: Capital Builders

FINAL DEVELOPMENT PLAN

02.22.2024

Architect: SixTwentyOne

REV.	DATE	ISSUE

ARCHITECT:

six twenty one

SixTwentyOne
1705 SUMMIT ST.
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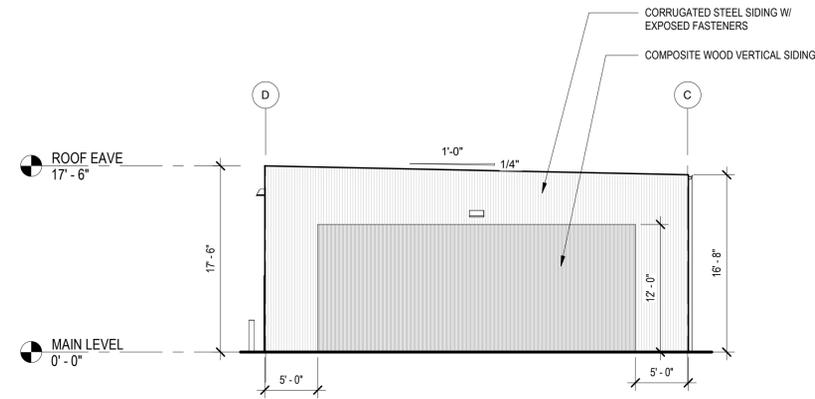
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ELEVATIONS - BUILDING A

Sheet: Revision no.

A201

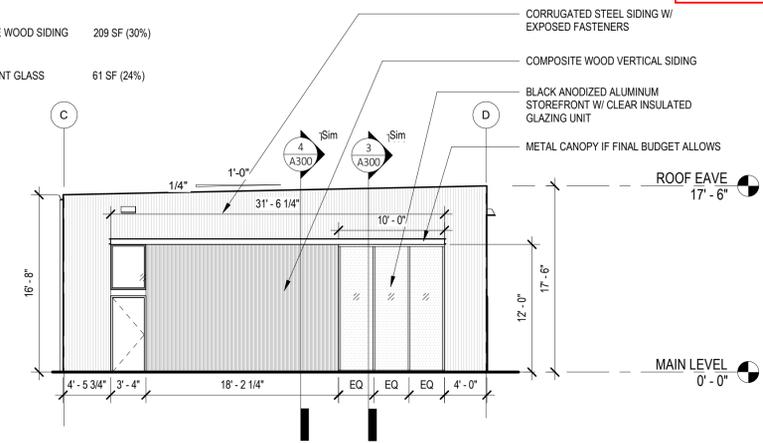
-  CORRUGATED STEEL SIDING: MBCI, PBC METAL WALL PANEL, MIDNIGHT BRONZE
-  COMPOSITE WOOD SIDING: NEWTECH WOOD, EUROPEAN SIDING, NORWEGIAN BOARD, PERUVIAN TEAK
-  STEEL TRIM



4 ELEVATION - BUILDING B (EAST)
1/8" = 1'-0"

TOTAL WALL AREA: 683 SF

-  CORRUGATED STEEL SIDING 314 SF (46%)
-  COMPOSITE WOOD SIDING 209 SF (30%)
- STOREFRONT GLASS 61 SF (24%)



3 ELEVATION - BUILDING B (WEST)
1/8" = 1'-0"

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Development Services Department
Lee's Summit, Missouri
05/09/2024

LEE'S SUMMIT FLEX
SPACES
901 E. Truman Blvd.
Lee's Summit, MO 64082

PROJECT NUMBER: 23092

CLIENT:
Capital Builders

FINAL DEVELOPMENT
PLAN

02.22.2024

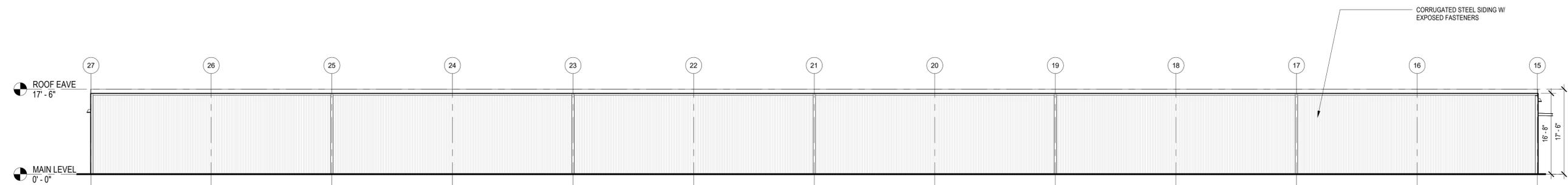
Architect:
SixTwentyOne

REV.	DATE	ISSUE

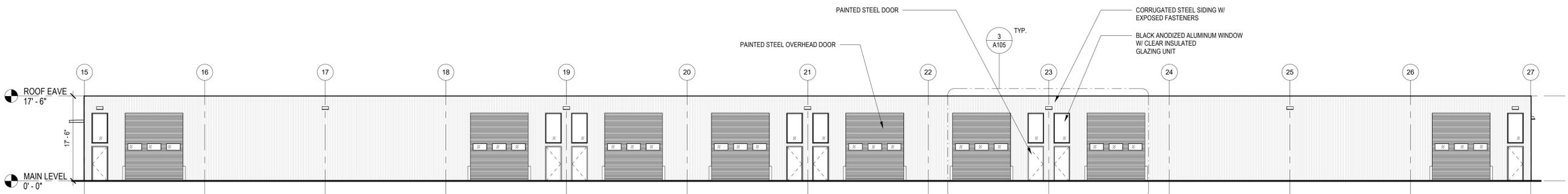
ARCHITECT:

**six
twenty
one**

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1705 SUMMIT ST.
KANSAS CITY, MO 64108
T: 816.694.1369
www.sixtwentyone.com



2 ELEVATION - BUILDING B (NORTH)
3/32" = 1'-0"



1 ELEVATION - BUILDING B (SOUTH)
3/32" = 1'-0"

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ELEVATIONS - BUILDING B

Sheet

Revision no.

A202

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Development Services Department
 Lee's Summit, Missouri
 05/08/2024



BUILDING A - WEST AND SOUTH ELEVATIONS



BUILDING A - EAST AND NORTH ELEVATIONS



BUILDING B - WEST AND SOUTH ELEVATIONS



BUILDING B - SOUTH AND EAST ELEVATIONS

LEE'S SUMMIT FLEX SPACES

6045 Truman Blvd.
 Lee's Summit, MO 64082

PROJECT NUMBER: 23092

CLIENT:
 Capital Builders

FINAL DEVELOPMENT PLAN

02.22.2024

ARCHITECT:
 License:

REV.	DATE	ISSUE

ARCHITECT:

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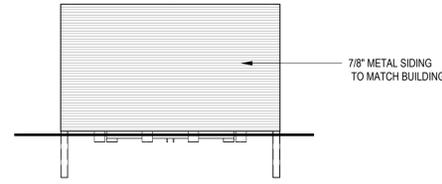
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RENDERINGS

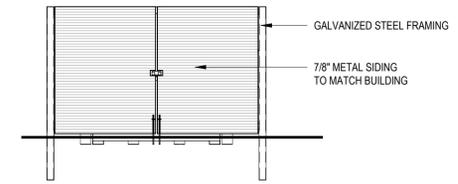
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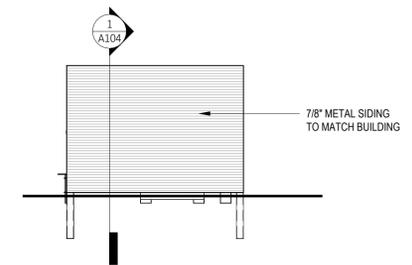
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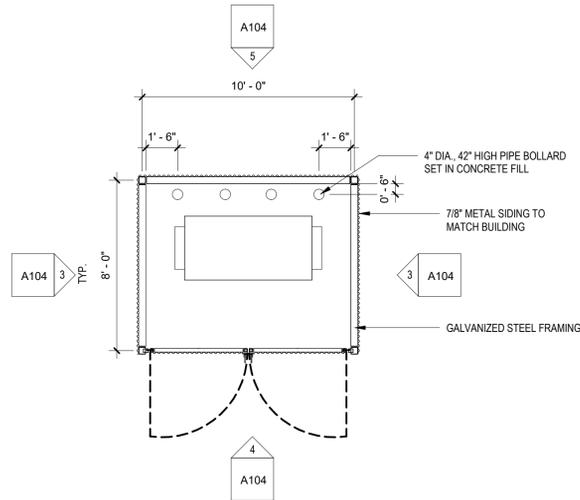
5 ELEVATION - TRASH ENCLOSURE - NORTH
 1/4" = 1'-0"



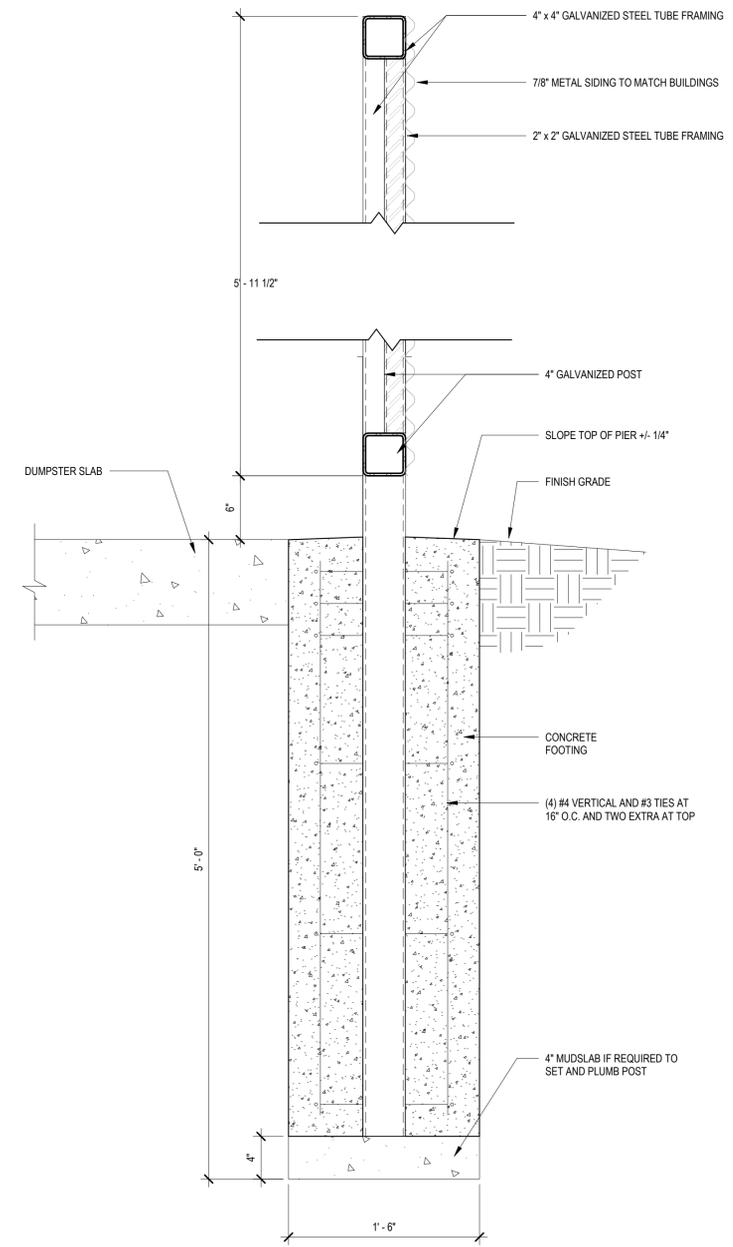
4 ELEVATION - TRASH ENCLOSURE - SOUTH
 1/4" = 1'-0"



3 ELEVATION - TRASH ENCLOSURE - EAST/WEST
 1/4" = 1'-0"



2 FLOOR PLAN - TRASH ENCLOSURE
 1/4" = 1'-0"



1 SECTION DETAIL - DUMPSTER ENCLOSURE
 1 1/2" = 1'-0"

LEE'S SUMMIT FLEX SPACES
 Lee's Summit, MO 64082

PROJECT NUMBER: 23092
 Architect:
 Capital Builders

FINAL DEVELOPMENT PLAN

02.22.2024

Architect:
 License: -

REV.	DATE	ISSUE

ARCHITECT:

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TRASH ENCLOSURE PLAN & DETAILS

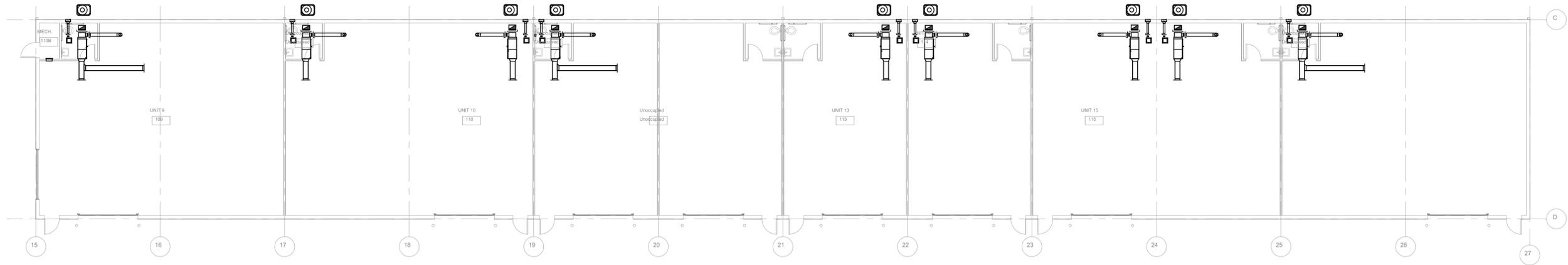
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Lee's Summit, Missouri

05/08/2024



2 MECHANICAL FLOOR PLAN - BUILDING B
SCALE: 3/32" = 1'-0"

GENERAL NOTES

1. REPLACE THIS NOTE WITH YOUR SHEET SPECIFIC GENERAL NOTES KEEPING THE SAME FORMAT, WIDTH AND POSITION. DELETE THIS NOTE AND TITLE IF YOU DO NOT HAVE ANY NOTES.

KEYED NOTES



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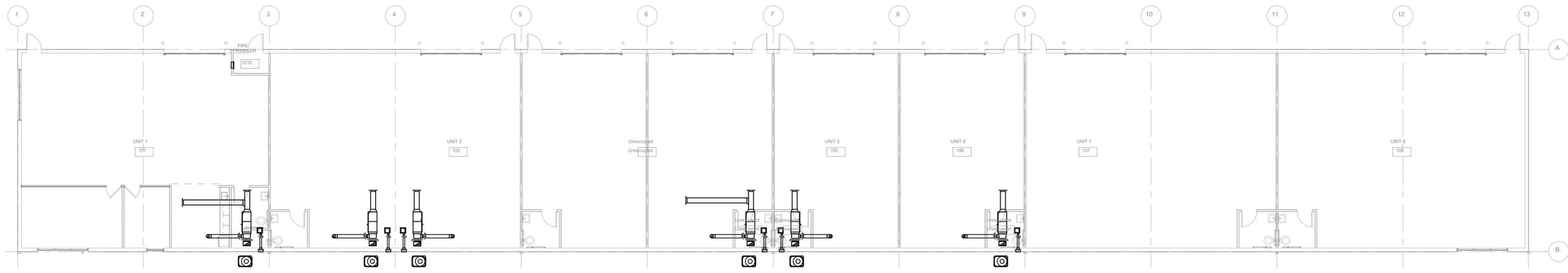
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1 MECHANICAL FLOOR PLAN - BUILDING A
SCALE: 3/32" = 1'-0"



MECHANICAL FLOOR PLANS

Sheet No. **M101**

FLEX SPACES

610 BE Thornwood Dr.
Lee's Summit, MO 64086

PROJECT NUMBER:
CLIENT:
Capital Builders

20002

CONSTRUCTION / PERMIT DRAWINGS

05.08.2024

**HAZARD CLASSIFICATION
LEGEND - NFPA 13**



LIGHT HAZARD
DESIGN DENSITY: 0.10 GPM/S.F
DESIGN AREA: 1,500 S.F.
HYDRANT FLOW: 250 GPM

CHARACTERISTICS:
SPACES WITH LOW QUANTITY AND LOW COMBUSTIBILITY OF CONTENTS



ORDINARY HAZARD 1:
DESIGN DENSITY: 0.15 GPM/S.F
DESIGN AREA: 1,500 S.F.
HYDRANT FLOW: 250 GPM

CHARACTERISTICS:
SPACES WITH MODERATE QUANTITY AND LOW COMBUSTIBILITY OF CONTENTS. STOCKPILES OF CONTENTS WITH LOW COMBUSTIBILITY DO NOT EXCEED 8 FT.



ORDINARY HAZARD 2
DESIGN DENSITY: 0.2 GPM/S.F
DESIGN AREA: 1,500 S.F.
HYDRANT FLOW: 250 GPM

CHARACTERISTICS:
SPACES WITH MODERATE TO HIGH QUANTITY AND MODERATE TO HIGH COMBUSTIBILITY OF CONTENTS. STOCKPILES OF CONTENTS WITH MODERATE TO HIGH COMBUSTIBILITY DO NOT EXCEED 12 FT.



EXTRA HAZARD 1
DESIGN DENSITY: 0.3 GPM/S.F
DESIGN AREA: 2,500 S.F.
HYDRANT FLOW: 500 GPM

CHARACTERISTICS:
SPACES WITH VERY HIGH QUANTITY AND VERY HIGH COMBUSTIBILITY OF CONTENTS. SPACES WHERE DUST, LINT, OR OTHER MATERIAL ARE PRESENT, INTRODUCING THE PROBABILITY OF RAPIDLY DEVELOPING FIRES.



EXTRA HAZARD 2
DESIGN DENSITY: 0.4 GPM/S.F
DESIGN AREA: 2,500 S.F.
HYDRANT FLOW: 500 GPM

CHARACTERISTICS:
SPACES WITH VERY HIGH QUANTITY AND VERY HIGH COMBUSTIBILITY OF CONTENTS. SPACES WITH SUBSTANTIAL AMOUNTS OF COMBUSTIBLE OR FLAMMABLE LIQUIDS. SPACES WHERE SHIELDING OF COMBUSTIBLES IS EXTENSIVE.



NOT IN SCOPE

SEISMIC GENERAL NOTES

A. SEISMIC-RESTRAINT LOADING BASED ON ASCE 7-10:

1. SITE CLASS
2. OCCUPANCY CATEGORY OF BUILDING OR STRUCTURE
3. SEISMIC DESIGN CATEGORY C.
4. DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS (0.2 SECOND); (S_{ds}) = XG (WHERE G IS THE FORCE OF GRAVITY).
5. DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD; (S_{d1}) = XG (WHERE G IS THE FORCE OF GRAVITY).
6. COMPONENT IMPORTANCE FACTOR: (I_p) = 1.5.
7. F_{pw} = Y X WEIGHT OF WATER FILLED PIPE (THIS IS THE HORIZONTAL FORCE ACTION ON THE BRACE, AS DEFINED BY NFPA 13 (2016), 9.3.5.9.3.

B. INSTALL SEISMIC RESTRAINTS IN ACCORDANCE WITH NFPA 13:

1. INSTALL LATERAL BRACES ON ALL FEED AND CROSS MAIN LINES, REGARDLESS OF PIPE DIAMETER.
 2. INSTALL LATERAL BRACES ON BRANCH LINES LARGER THAN 2-INCH DIAMETER. (EXCEPT THAT IF THE BRANCH LINE DOES NOT EXCEED 12 FT IN LENGTH, BRACING MAY BE OMITTED.)
 3. LATERAL BRACES ARE TO BE INSTALLED WITHIN 6 FT FROM THE ENDS OF PIPES
 4. LATERAL BRACES ARE TO BE INSTALLED AT 40 FT MAXIMUM INTERVALS.
 5. WHERE HANGER RODS DO NOT EXCEED 6 INCHES LONG, LATERAL BRACING MAY BE OMITTED.
 6. A LONGITUDINAL BRACE MAY SERVE AS A LATERAL BRACE IF IT IS WITHIN 24 INCHES OF THE CENTERLINE OF THE PIPE BRACED LONGITUDINALLY.
 7. INSTALL LONGITUDINAL BRACES ON ALL FEED AND CROSS MAIN LINES, REGARDLESS OF PIPE DIAMETER.
 8. LONGITUDINAL BRACES ARE TO BE INSTALLED WITHIN 40 FT FROM THE ENDS OF PIPES.
 9. LONGITUDINAL BRACES ARE TO BE INSTALLED AT 80 FT MAXIMUM INTERVALS
 10. A LATERAL BRACE MAY SERVE AS A LONGITUDINAL BRACE IF IT IS WITHIN 24 INCHES OF THE CENTERLINE OF THE PIPE BRACED LATERALLY.
- C. INSTALL SEISMIC-RESTRAINT DEVICES USING METHODS APPROVED BY OSHPD PROVIDING REQUIRED SUBMITTALS FOR COMPONENT
- D. ATTACHMENT TO STRUCTURE: IF SPECIFIC ATTACHMENT IS NOT INDICATED, ANCHOR BRACING TO STRUCTURE AT FLANGES OF BEAMS, AT UPPER TRUSS CHORDS OF BAR JOISTS, OR AT CONCRETE MEMBERS
- E. DRILLED-IN ANCHORS:

1. IDENTIFY POSITION OF REINFORCING STEEL AND OTHER EMBEDDED ITEMS PRIOR TO DRILLING HOLES FOR ANCHORS. DO NOT DAMAGE EXISTING REINFORCING OR EMBEDDED ITEMS DURING CORING OR DRILLING. NOTIFY THE STRUCTURAL ENGINEER IF REINFORCING STEEL OR OTHER EMBEDDED ITEMS ARE ENCOUNTERED DURING DRILLING. LOCATE AND AVOID PRESTRESSED TENDONS, ELECTRICAL AND ENCOUNTERED DURING DRILLING. LOCATE AND AVOID PRESTRESSED TENDONS, ELECTRICAL AND TELECOMMUNICATIONS CONDUIT, AND GAS LINES.

G. ADJUSTING:

1. ADJUST RESTRAINTS TO PERMIT FREE MOVEMENT OF EQUIPMENT WITHIN NORMAL MODE OF OPERATION.

2. DO NOT DRILL HOLES IN CONCRETE OR MASONRY UNTIL CONCRETE, MORTAR, OR GROUT HAS ACHIEVED FULL DESIGN STRENGTH.

3. WEDGE ANCHORS: PROTECT THREADS FROM DAMAGE DURING ANCHOR INSTALLATION. HEAVY-DUTY SLEEVE SHALL BE INSTALLED WITH SLEEVE FULLY ENGAGED IN THE STRUCTURAL ELEMENT TO WHICH ANCHOR IS TO BE FASTENED.

4. SET ANCHORS TO MANUFACTURER'S RECOMMENDED TORQUE, USING A TORQUE WRENCH.

5. INSTALL ZINC-COATED STEEL ANCHORS FOR INTERIOR AND STAINLESS-STEEL ANCHORS FOR EXTERIOR APPLICATIONS.

F. ACCOMMODATION OF DIFFERENTIAL SEISMIC MOTION: INSTALL FLEXIBLE CONNECTIONS IN ACCORDANCE WITH NFPA 13 IN PIPING WHERE:

1. PIPING 2-1/2 INCH OR LARGER CROSSES SEISMIC JOINTS, WHERE ADJACENT SECTIONS OR BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE THE CONNECTIONS TERMINATE WITH CONNECTION TO EQUIPMENT THAT IS ANCHORED TO A DIFFERENT STRUCTURAL ELEMENT FROM ONE SUPPORTING THE CONNECTIONS AS THEY APPROACH EQUIPMENT.
2. WITHIN 24 INCHES OF THE TOP AND BOTTOM OF ALL RISERS 2-1/2 INCH OR LARGER (IN RISERS LESS THAN 3 FT IN LENGTH, FLEXIBLE COUPLINGS MAY BE OMITTED; IN RISERS 3 FT TO 7 FT, ONE FLEXIBLE COUPLING IS ADEQUATE).
3. WITHIN 12 IN ABOVE AND WITHIN 24 IN BELOW THE FLOOR IN MULTI FLOOR BUILDINGS FOR PIPING 2-1/2 INCH OR LARGER.
4. ON BOTH SIDES OF CONCRETE OR MASONRY WALLS WITHIN 1 FT OF FACE OF WALL FOR PIPING 2-1/2 INCH OR LARGER, UNLESS CLEARANCE IS PROVIDED PER NFPA 13.
5. WITHIN 24 INCHES OF BUILDING EXPANSION JOINTS FOR PIPING 2-1/2 INCH OR LARGER.
6. WITHIN 24 INCHES OF THE TOP OF DROPS EXCEEDING 15 FEET IN LENGTH TO PORTIONS OF SYSTEMS SUPPLYING MORE THAN ONE SPRINKLER, REGARDLESS OF PIPE SIZE.
7. WITHIN 24 INCHES ABOVE AND 24 INCHES BELOW ANY INTERMEDIATE POINTS OF SUPPORT FOR A RISER OR OTHER VERTICAL PIPE FOR PIPING 2-1/2 INCH OR LARGER.
8. WHEN THE FLEXIBLE COUPLING BELOW THE FLOOR IS ABOVE THE TIE-IN TO THE MAIN SUPPLYING THAT FLOOR, A FLEXIBLE COUPLING SHALL BE INSTALLED EITHER ON THE HORIZONTAL PORTION WITHIN 24 INCHES OF THE TIE-IN WHERE THE TIE-IN IS HORIZONTAL OR ON THE VERTICAL PORTION OF THE TIE-IN WHERE THE TIE-IN INCORPORATES A RISER FOR PIPING 2-1/2 INCH OR LARGER.
9. FOR DROPS TO HOSE LINES, RACK SPRINKLERS, MEZZANINES AND FREE STANDING STRUCTURES, INSTALL FLEXIBLE COUPLINGS REGARDLESS OF PIPE SIZE WITHIN 24 INCHES OF THE TOP OF THE DROP, WITHIN 24 INCHES ABOVE THE UPPERMOST DROP SUPPORT ATTACHMENT, WHERE DROP SUPPORTS ARE PROVIDED TO THE STRUCTURE, RACK, OR MEZZANINE, AND WITHIN 24 INCHES ABOVE THE BOTTOM OF THE DROP WHERE NO ADDITIONAL DROP SUPPORT IS PROVIDED.

WET SPRINKLER GENERAL NOTES

ALL PIPE, DEVICES, AND INSTALLATION SHALL FULLY COMPLY WITH NFPA 13, AND ALL REQUIRED AUTHORITIES HAVING JURISDICTION.

REFER TO NOTES ON DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR BUILDING DETAILS.

PROVIDE A COMPLETE, HYDRAULICALLY CALCULATED, FULLY AUTOMATIC WET PIPE SPRINKLER SYSTEM THROUGHOUT THE BUILDING. FIRE PROTECTION CONTRACTOR SHALL INSTALL THE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH ALL APPLICABLE NFPA STANDARDS, JOB SPECIFICATIONS, AND LOCAL CODE.

FIRE PROTECTION SYSTEM(S), PIPING, VALVES AND APPURTENANCES INDICATED ON THE DRAWING ARE DIAGRAMMATIC ONLY IN THAT ALL FITTINGS AND OFFSETS MAY NOT BE SHOWN. FIRE PROTECTION CONTRACTOR SHALL VERIFY EQUIPMENT SELECTIONS, PIPE ROUTING, ETC. FOR CODE COMPLIANCE, COMPLIANCE, AND ARCHITECTURAL AND STRUCTURAL CONFORMITY. FIRE PROTECTION CONTRACTOR SHOULD THOROUGHLY SURVEY THE PROPERTY AND REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING (M.E.P.) CONSTRUCTION DOCUMENTS PRIOR TO BID.

FIRE PROTECTION SHOP DRAWINGS SHALL HAVE COMPLETE REFLECTED CEILING PLANS INDICATING LOCATION OF EACH SPRINKLER HEAD, AS WELL AS PIPING LAYOUTS. PROVIDE ADDITIONAL SPRINKLER HEADS (OVER CODE MINIMUM), IF REQUESTED BY THE ARCHITECT, TO OBTAIN SYMMETRICAL CEILING LAYOUTS.

FIRE PROTECTION SYSTEM SHALL BE COMPLETE WITH BACKFLOW PREVENTER, FIRE DEPARTMENT CONNECTION, STANDPIPES, CONTROL VALVES, SPRINKLER PIPING AND HEADS, ELECTRONIC SUPERVISION AND APPURTENANCES AS REQUIRED BY NFPA AND AUTHORITIES HAVING JURISDICTION.

GENERAL CONTRACTOR SHALL CONDUCT A COORDINATION MEETING WITH THE SUBCONTRACTORS TO ESTABLISH CLEARANCE REQUIREMENTS NEEDED FOR M.E.P. WORK PRIOR TO FABRICATION OF THE SPRINKLER SYSTEM. ANY RELOCATION OF FIRE SPRINKLER SYSTEM REQUIRED FOR PROPER INSTALLATION OF M.E.P. SYSTEMS SHALL BE AT THE FIRE PROTECTION CONTRACTOR'S EXPENSE.

FIRE PROTECTION CONTRACTOR SHALL BASE BID ON CAREFUL COORDINATION OF MECHANICAL DUCT, MECHANICAL AND PLUMBING PIPING, ELECTRICAL, AND STRUCTURAL SYSTEMS IN THE BUILDING.

HYDRAULIC CALCULATIONS SHALL BE BASED ON A WATER FLOW TEST OBTAINED FROM THE CITY OF LEE'S SUMMIT BY THE FIRE PROTECTION CONTRACTOR. CONTRACTOR SHALL VERIFY FLOW TEST DATA WITH LOCAL AUTHORITIES. IF A CURRENT TEST IS NOT AVAILABLE, CONTRACTOR SHALL CONDUCT A PROPER FLOW TEST PRIOR TO PREPARATION OF SHOP DRAWINGS. PROVIDE A MINIMUM OF 10 PSI SAFETY FACTOR FOR ALL HYDRAULIC CALCULATIONS. PIPE SIZING INDICATED ON THE DRAWINGS IS FOR INFORMATIONAL PURPOSES ONLY. PIPE SIZING SHALL BE ESTABLISHED BY THE FIRE PROTECTION CONTRACTOR. EXCEPTION: STANDPIPES SHALL BE SIZED AS INDICATED ON THE DRAWINGS OR LARGER. NOTE: AVOID SYSTEM PRESSURES EXCEEDING 175 PSI.

PROVIDE A REDUCED PRESSURE ZONE (R.P.Z.) BACKFLOW PREVENTER TO ISOLATE THE SPRINKLER SYSTEM FROM THE MAIN SUPPLY. COORDINATE REQUIREMENTS WITH THE CITY OF LEE'S SUMMIT AND THE STATE OF MISSOURI.

FIRE PROTECTION SYSTEM SHALL INTERFACE WITH THE BUILDING FIRE ALARM SYSTEM. REFER TO ELECTRICAL.

ALL CONTROL VALVES SHALL HAVE ELECTRONIC SUPERVISION.

SPECIAL CONSIDERATION SHALL BE GIVEN TO AREAS THROUGHOUT THE BUILDING SUCH AS DROPPED SOFFITS, ADDITIONAL CEILING AND LIGHTING SOFFITS THAT NECESSITATE ADDITIONAL SPRINKLER HEADS. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS AND BUILDING DETAILS.

ALL SPRINKLER HEADS FOR LIGHT HAZARD AND ALL STANDARD SPRAY SPRINKLER HEADS FOR ORDINARY HAZARD SHALL BE QUICK RESPONSE.

ALL CEILING MOUNTED SPRINKLER HEADS SHALL BE CHROME WITH CHROME RECESSED ESCUTCHEONS, UNLESS NOTED OTHERWISE ON FIRE PROTECTION PLANS OR SPECIFICATIONS.

ALL SPRINKLER HEADS INSTALLED IN EXPOSED STRUCTURE SHALL BE BRASS UPRIGHT, UNLESS NOTED OTHERWISE ON FIRE PROTECTION PLANS OR SPECIFICATIONS.

ALL CEILING MOUNTED SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF CEILING TILES IN ALL PUBLIC AREAS. BRANDED FLEXIBLE SPRINKLER DROP CONNECTIONS MAY BE USED FOR EASE OF INSTALLATION, SPECIFIC SPRINKLER HEAD LOCATION OR SPECIFIC OWNER REQUIREMENTS. EXCEPTION: CLOSETS, STORAGE ROOMS, EQUIPMENT ROOMS AND OTHER SIMILAR NON-PUBLIC AREAS ARE NOT REQUIRED TO BE CENTER OF TILE BUT SHALL BE NO CLOSER THAN 6" TO CEILING GRID.

ROOMS AND OTHER SIMILAR NON-PUBLIC AREAS ARE NOT REQUIRED TO BE CENTER OF TILE BUT SHALL BE NO CLOSER THAN 6" TO CEILING GRID.

PROVIDE SPRINKLER SYSTEM MAIN DRAIN IN ACCORDANCE WITH NFPA 13.

PROVIDE AUXILIARY DRAINS FOR ALL TRAPPED PIPING SECTIONS IN ACCORDANCE WITH NFPA 13.

ALL DRAIN PIPING SHALL TERMINATE AT THE EXTERIOR WITH 45 DEGREE ELBOW DOWN. INSTALL THE DRAIN IN A MANNER TO PREVENT FLOODING OR DAMAGE TO LANDSCAPING, AND TO PREVENT WETTING OF WALKWAYS. EXCEPTION: DRAIN PIPING MAY TERMINATE AT INTERIOR FLOOR DRAINS IF THE DRAIN HAS BEEN SIZED APPROPRIATELY. COORDINATE WITH PLUMBING CONTRACTOR FOR LOCATION OF FLOOR DRAIN.

INSTALL PIPING HORIZONTALLY AND AT RIGHT ANGLES TO WALLS AND CEILING.

ALL SPRINKLER MAIN PIPING SHALL BE SCHEDULE 10 WITH ROLL GROOVED AND WELDED OUTLETS, UNLESS NOTED OTHERWISE. FITTINGS AND COUPLINGS SHALL BE STANDARD GROOVED, UNLESS NOTED OTHERWISE.

ALL SPRINKLER BRANCH LINE PIPING SHALL BE BLACK SCHEDULE 40, UNLESS NOTED OTHERWISE. FITTINGS SHALL BE STANDARD "BLACK" GRADE CAST IRON, DUCTILE IRON OR MALLEABLE IRON, UNLESS NOTED OTHERWISE.

ALTERNATIVE STEEL PIPE SCHEDULES ALLOWED BY NFPA 13 ARE NOT ACCEPTABLE ON THIS PROJECT.

ALL FIRE PROTECTION PIPING, FITTINGS, SUPPORTS AND ACCESSORIES IN EXPOSED AREAS SHALL BE PREPARED FOR FINISH PAINTING. PIPING, FITTINGS, SUPPORTS AND ACCESSORIES IN MECHANICAL ROOMS SHALL BE PAINTED OSHA RED. ALL PAINTING SHALL BE PERFORMED BY OTHERS.

FIRE PROTECTION CONTRACTOR SHALL PROVIDE PROTECTION FOR SPRINKLER HEADS IN AREAS WHERE THE CEILING AND SURROUNDING AREAS ARE TO BE PAINTED. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SPRINKLER PROTECTION AFTER PAINTING WORK IS COMPLETE. ANY SPRINKLER HEAD WITH PAINT OR TEXTURE OVERSPRAY SHALL BE REPLACED BY THE FIRE PROTECTION CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

PROVIDE HEAD GUARDS ON ALL SPRINKLER HEADS AT OR BELOW AN ELEVATION OF 7'-0" AFF. OR THAT OTHERWISE MAY BE SUBJECT TO MECHANICAL DAMAGE, SUCH AS IN THE MECHANICAL ROOMS.

SEISMIC BRACING/RESTRAINT IS NOT REQUIRED FOR THIS PROJECT.

FIRE PROTECTION PLANS SHALL BE SUBMITTED TO ALL REQUIRED LOCAL AND STATE AUTHORITIES.

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Development Services Department
Lee's Summit, Missouri

05/08/2024

FLEX SPACES

60 SE Thompson Dr.
Lee's Summit, MO 64082

PROJECT NUMBER:
23092

CLIENT:
Capital Builders

CONSTRUCTION / PERMIT DRAWINGS

03.27.2024

Author: _____
Checker: _____

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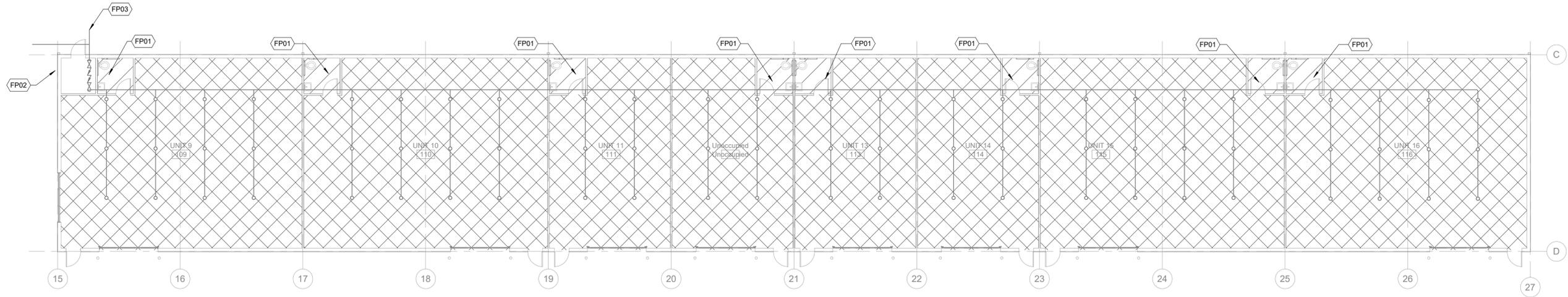


FIRE SUPPRESSION NOTES,
LEGENDS AND SPECIFICATIONS

Sheet _____ Revision no. _____

F001

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 Development Services Department
 Lee's Summit, Missouri
 05/08/2024



2 FIRE SUPPRESSION FLOOR PLAN - BUILDING B

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

KEYED NOTES

- FP01 PROVIDE FIRE PROTECTION HEADS ABOVE CEILING SPACED BASED ON ORDINARY HAZARD 1
- FP02 SIAMESE FIRE DEPARTMENT CONNECTION. PROVIDE HORN AND STROBE ABOVE.
- FP03 REFER TO CIVIL PLANS FOR FIRE SERVICE CONNECTION AND CONTINUATION.



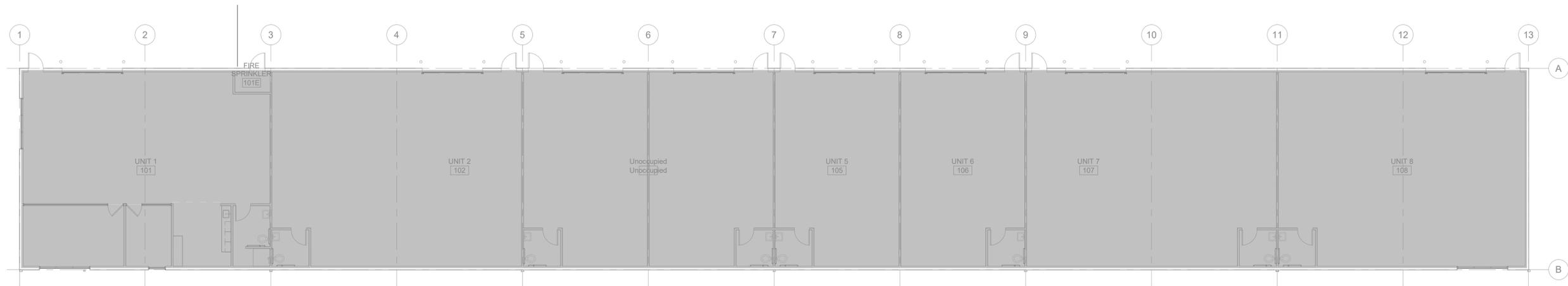
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1 FIRE SUPPRESSION FLOOR PLAN - BUILDING A

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



FIRE SUPPRESSION FLOOR PLANS

Sheet _____ Revision no. _____

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Development Services Department
Lee's Summit, Missouri

05/08/2024

FLEX SPACES

60 SE Thompson Dr.
Lee's Summit, MO 64082

PROJECT NUMBER:
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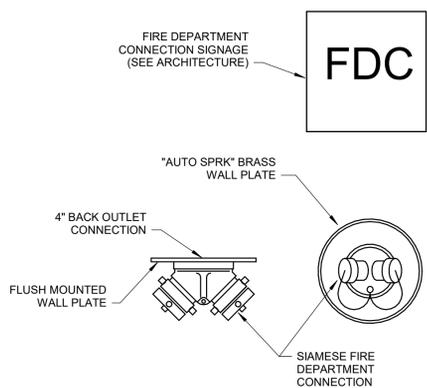


FIRE SUPPRESSION DETAILS

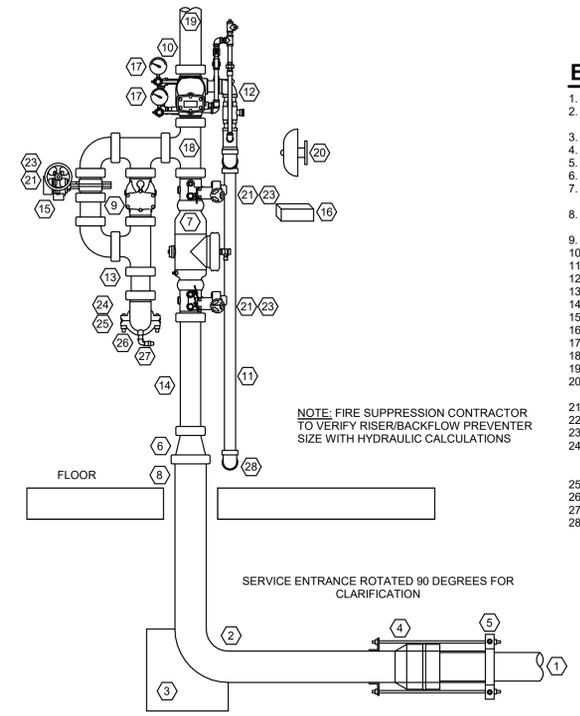
Sheet: Revision no:

F500

1 FDC DETAIL
SCALE: NONE

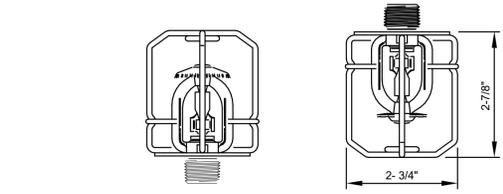


2 FIRE SUPPRESSION RISER DETAIL
SCALE: NOT TO SCALE

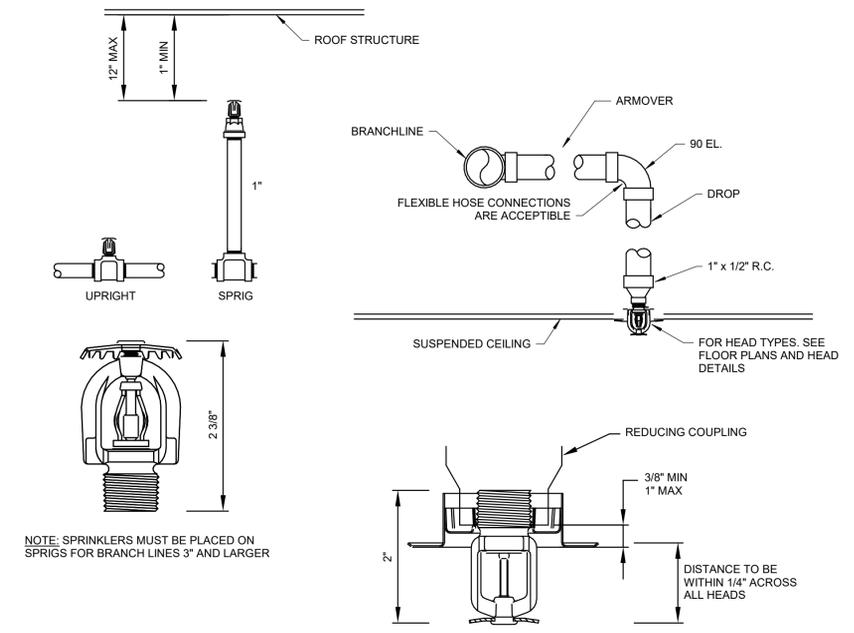


- EQUIPMENT NOTES**
- 6" UTILITY FIRE MAIN
 - 6" STAINLESS STEEL ONE PIECE RISER (SHOWN MFxGROOVE CONFIGURATION)
 - CONCRETE THRUST BLOCK (PER NFPA-24)
 - CORROSION RESISTANT THREADED ROD THRUST RESTRAINT
 - 6" GALVANIZED PIPE CLAMP
 - 6" X 4" G X G REDUCER
 - AMES C200 (OR EQUAL) 4" (GxG) DOUBLE CHECK ASSEMBLY WITH INDICATING BFG VALVES
 - SLEEVE WITH NOMINAL 4-INCH ANNULAR CLEARANCE AND FILL WITH FLEXIBLE MATERIAL
 - 4" GROOVED SWING CHECK VALVE
 - 4" ALARM CHECK VALVE WITH TRIM
 - 2" SCH. 40 THREADED DRAIN PIPE
 - MAIN DRAIN VALVE
 - 4" SCH. 40 GROOVED PIPE TO FIRE DEPARTMENT CONNECTION
 - 4" SPOOL PIECE
 - 4" GROOVED BUTTERFLY TEST VALVE
 - SPARE HEAD BOX (STOCKED WITH HEADS & WRENCH)
 - 3" WATER PRESSURE GAUGE
 - HYDRAULIC DATA PLATE
 - 4" SCH. 40 PIPE (SYSTEM FEED)
 - WEATHERPROOF EXTERIOR BELL (BY FIRE ALARM CONTRACTOR)
 - 4" GROOVED BUTTERFLY TEST VALVE
 - SPARE HEAD BOX (STOCKED WITH HEADS & WRENCH)
 - 3" WATER PRESSURE GAUGE
 - HYDRAULIC DATA PLATE
 - 4" SCH. 40 PIPE (SYSTEM FEED)
 - WEATHERPROOF EXTERIOR BELL (BY FIRE ALARM CONTRACTOR)
 - SUPERVISORY CIRCUIT (BY OTHERS)
 - NOT USED
 - VALVE SUPERVISORY "TAMPER" SWITCH
 - 4" SCH. 40 GxG SPOOL (2.5" x 2.5" SIAMESE FIRE DEPARTMENT CONNECTION). COORDINATE FINAL FDC LOCATION WITH FIRE DEPARTMENT.
 - "FDC" SIGNAGE: 18"x18" MINIMUM SIZE
 - 4" GROOVED DRAIN ELBOW
 - AUTOMATIC BALL DRIP VALVE
 - EXTEND 1.25" DRAIN PIPE TO EXTERIOR DRAIN (INSTALL 1.25" GALVANIZED 45 ELBOW WITH WALL PLATE)

3 SPRINKLER GUARD DETAIL
SCALE: NONE



4 TYPICAL SPRINKLER DETAILS
SCALE: NONE



5 OVERHEAD DOOR SPRINKLER DETAIL
SCALE: NONE

