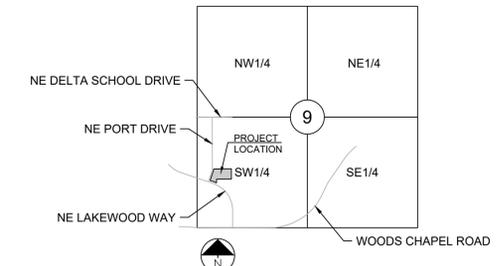


PROPERTY DESCRIPTION:

LOT 35 OF LAKEWOOD BUSINESS PARK, LOTS 33A, AND 34-36.

PAVEMENT LEGEND:

- PROPOSED ASPHALT PAVEMENT
- EXISTING ASPHALT PAVEMENT
- PROPOSED 4" CONCRETE SIDEWALK
- PROPOSED CONCRETE PAVEMENT
- EXISTING CONCRETE SIDEWALK
- TYPE CG-1 CURB & GUTTER
- TYPE CG-1 CURB & GUTTER - DRY
- EXISTING CURB & GUTTER
- REMOVE EXISTING PAVEMENT
- REMOVE EXISTING CONC. CURB AND GUTTER



SECTION 9-48-31
LOCATION MAP
SCALE 1" = 2000'

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ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street • Lenexa, Kansas 66215
(913) 492-5158 • Fax: (913) 492-8400
WWW.SCHLAGELASSOCIATES.COM
Missouri State Certificates of Authority
#E200203609F #LAC2001005237 #LS200200869F

PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

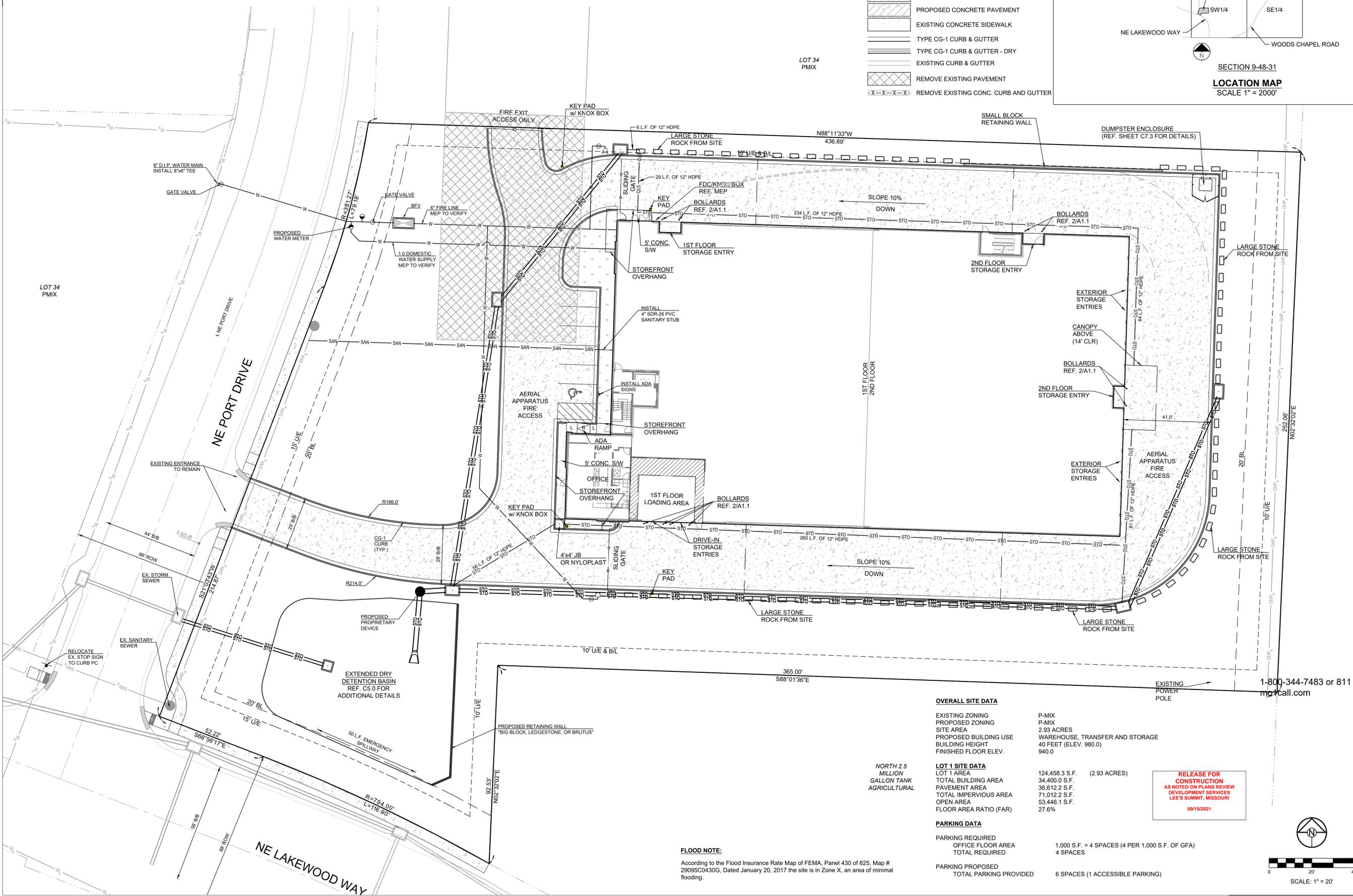
OWNER: KELLEY PAUL L. TRUSTEE
ADDRESS: 1204 NE WOODS CHAPEL RD
LAKEWOOD BUSINESS PARK - LOT 35
FINAL DEVELOPMENT PLANS
4101 NE PORT DRIVE
LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
09/13/2021	City Comments
09/30/2021	City Comments
09/07/2021	City Comments

DRAWN BY:	JTS
CHECKED BY:	JTS
DATE PREPARED:	08/25/2021
PROJ. NUMBER:	20-381

SITE PLAN

SHEET
C1.0



OVERALL SITE DATA

EXISTING ZONING: P-MIX
PROPOSED ZONING: P-MIX
SITE AREA: 2.93 ACRES
PROPOSED BUILDING USE: WAREHOUSE, TRANSFER AND STORAGE
BUILDING HEIGHT: 40 FEET (ELEV. 980.0)
FINISHED FLOOR ELEV.: 940.0

LOT 1 SITE DATA

LOT 1 AREA: 124,458.3 S.F. (2.93 ACRES)
TOTAL BUILDING AREA: 34,400.0 S.F.
PAVEMENT AREA: 36,612.2 S.F.
TOTAL IMPERVIOUS AREA: 71,012.2 S.F.
OPEN AREA: 53,446.1 S.F.
FLOOR AREA RATIO (FAR): 27.6%

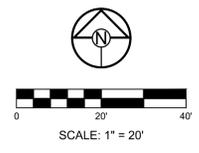
PARKING DATA

PARKING REQUIRED: OFFICE FLOOR AREA 1,000 S.F. = 4 SPACES (4 PER 1,000 S.F. OF GFA); TOTAL REQUIRED 4 SPACES
PARKING PROPOSED: TOTAL PARKING PROVIDED 6 SPACES (1 ACCESSIBLE PARKING)

FLOOD NOTE:

According to the Flood Insurance Rate Map of FEMA, Panel 430 of 625, Map # 29095C0430G, Dated January 20, 2017 the site is in Zone X, an area of minimal flooding.

RELEASE FOR CONSTRUCTION
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LEE'S SUMMIT, MISSOURI
09/15/2021



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PREPARED BY:



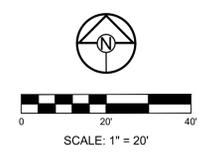
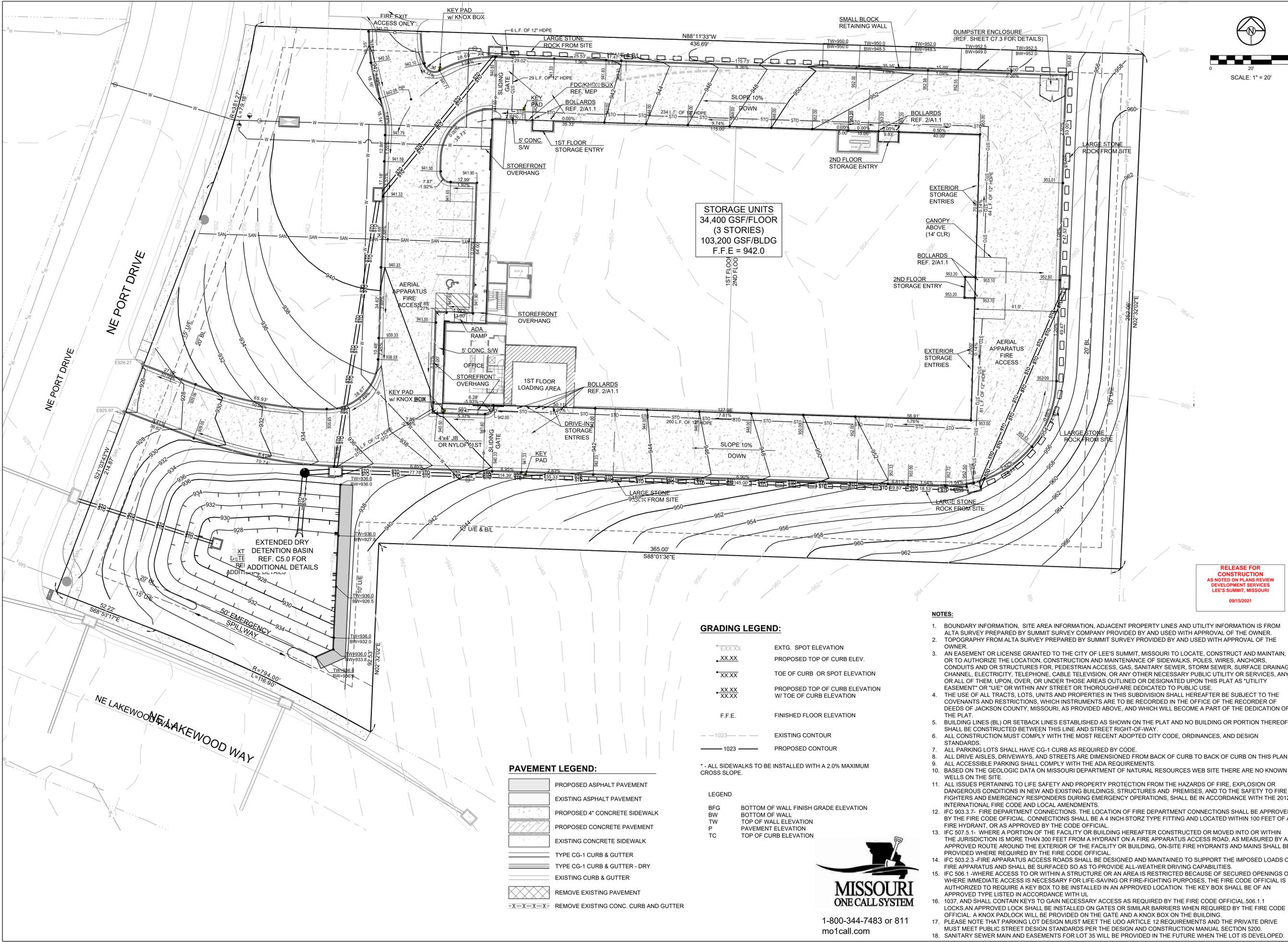
SCHLAGEL & ASSOCIATES, P.A.

LAKWOOD BUSINESS PARK - LOT 35
 FINAL DEVELOPMENT PLANS
 4101 NE PORT DRIVE LEE'S SUMMIT,
 MISSOURI

REVISION DATE	DESCRIPTION
09/13/2021	City Comments
09/30/2021	City Comments
09/07/2021	City Comments

DRAWN BY:	DESCRIPTION
RPM	City Comments
CHECKED BY:	City Comments
JTS	City Comments
DATE PREPARED:	
08/25/2021	
PROJ. NUMBER:	
20-381	

GRADING PLAN
 SHEET
C2.0



STORAGE UNITS
 34,400 GSF/FLOOR
 (3 STORIES)
 103,200 GSF/BLDG
 F.F.E = 942.0

RELEASE FOR
 CONSTRUCTION
 AS NOTED ON PLANS REVIEW
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 LEE'S SUMMIT, MISSOURI
 09/15/2021

GRADING LEGEND:

- XXXXX EXTG. SPOT ELEVATION
- XX.XX PROPOSED TOP OF CURB ELEV.
- XX.XX TOE OF CURB OR SPOT ELEVATION
- XX.XX PROPOSED TOP OF CURB ELEVATION W/ TOE OF CURB ELEVATION
- XX.XX F.F.E. FINISHED FLOOR ELEVATION
- 1023--- EXISTING CONTOUR
- 1023— PROPOSED CONTOUR

* ALL SIDEWALKS TO BE INSTALLED WITH A 2.0% MAXIMUM CROSS SLOPE.

PAVEMENT LEGEND:

- [Pattern] PROPOSED ASPHALT PAVEMENT
- [Pattern] EXISTING ASPHALT PAVEMENT
- [Pattern] PROPOSED 4" CONCRETE SIDEWALK
- [Pattern] PROPOSED CONCRETE PAVEMENT
- [Pattern] EXISTING CONCRETE SIDEWALK
- [Pattern] TYPE CG-1 CURB & GUTTER
- [Pattern] TYPE CG-1 CURB & GUTTER - DRY
- [Pattern] EXISTING CURB & GUTTER
- [Pattern] REMOVE EXISTING PAVEMENT
- [Pattern] REMOVE EXISTING CONC. CURB AND GUTTER

LEGEND

- BFG BOTTOM OF WALL FINISH GRADE ELEVATION
- BW BOTTOM OF WALL
- TW TOP OF WALL ELEVATION
- P PAVEMENT ELEVATION
- TC TOP OF CURB ELEVATION

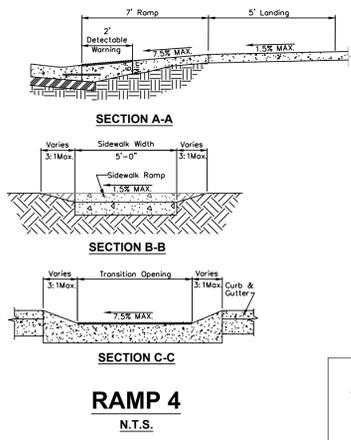
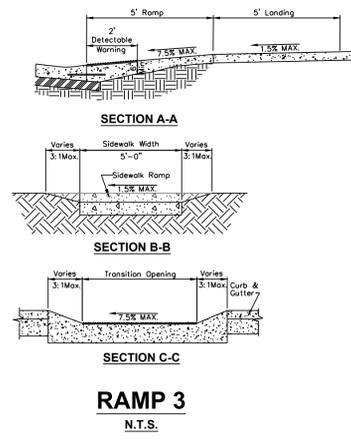
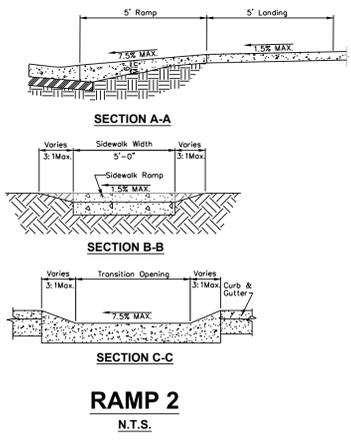
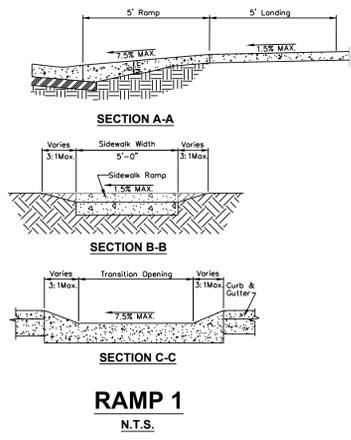
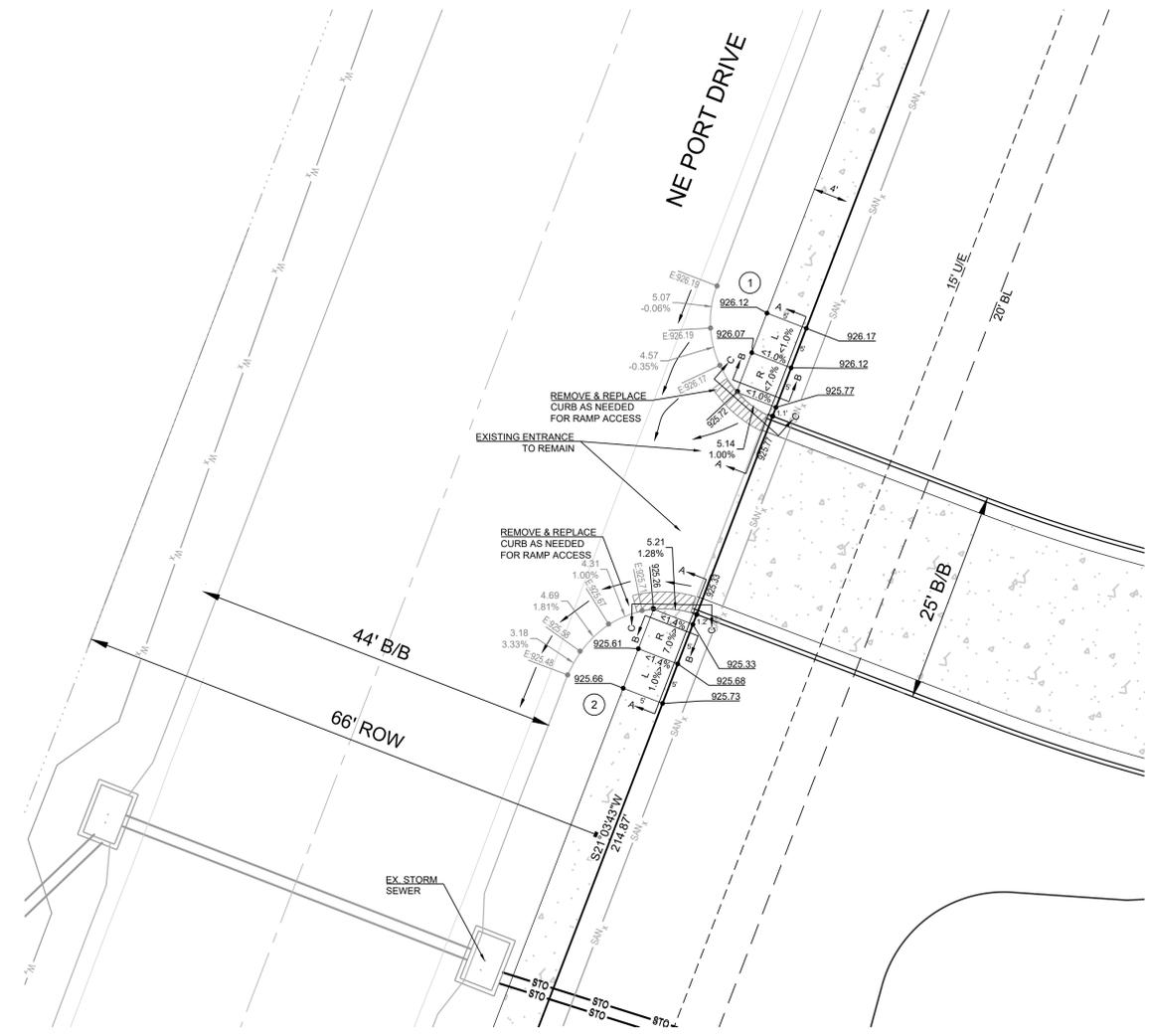
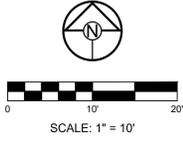
NOTES:

1. BOUNDARY INFORMATION, SITE AREA INFORMATION, ADJACENT PROPERTY LINES AND UTILITY INFORMATION IS FROM ALTA SURVEY PREPARED BY SUMMIT SURVEY COMPANY PROVIDED BY AND USED WITH APPROVAL OF THE OWNER.
2. TOPOGRAPHY FROM ALTA SURVEY PREPARED BY SUMMIT SURVEY PROVIDED BY AND USED WITH APPROVAL OF THE OWNER.
3. AN EASEMENT OR LICENSE GRANTED TO THE CITY OF LEE'S SUMMIT, MISSOURI TO LOCATE, CONSTRUCT AND MAINTAIN, OR TO AUTHORIZE THE LOCATION, CONSTRUCTION AND MAINTENANCE OF SIDEWALKS, POLES, WIRES, ANCHORS, CONDUITS AND OR STRUCTURES FOR, PEDESTRIAN ACCESS, GAS, SANITARY SEWER, STORM SEWER, SURFACE DRAINAGE CHANNEL, ELECTRICITY, TELEPHONE, CABLE TELEVISION, OR ANY OTHER NECESSARY PUBLIC UTILITY OR SERVICES, ANY OR ALL OF THEM, UPON, OVER, OR UNDER THOSE AREAS OUTLINED OR DESIGNATED UPON THIS PLAT AS "UTILITY EASEMENT" OR "UIE" OR WITHIN ANY STREET OR THOROUGHFARE DEDICATED TO PUBLIC USE.
4. THE USE OF ALL TRACTS, LOTS, UNITS AND PROPERTIES IN THIS SUBDIVISION SHALL HEREAFTER BE SUBJECT TO THE COVENANTS AND RESTRICTIONS, WHICH INSTRUMENTS ARE TO BE RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS OF JACKSON COUNTY, MISSOURI, AS PROVIDED ABOVE, AND WHICH WILL BECOME A PART OF THE DEDICATION OF THE PLAT.
5. BUILDING LINES (BL) OR SETBACK LINES ESTABLISHED AS SHOWN ON THE PLAT AND NO BUILDING OR PORTION THEREOF SHALL BE CONSTRUCTED BETWEEN THIS LINE AND STREET RIGHT-OF-WAY.
6. ALL CONSTRUCTION MUST COMPLY WITH THE MOST RECENT ADOPTED CITY CODE, ORDINANCES, AND DESIGN STANDARDS.
7. ALL PARKING LOTS SHALL HAVE CG-1 CURB AS REQUIRED BY CODE.
8. ALL DRIVE AISLES, DRIVEWAYS, AND STREETS ARE DIMENSIONED FROM BACK OF CURB TO BACK OF CURB ON THIS PLAN.
9. ALL ACCESSIBLE PARKING SHALL COMPLY WITH THE ADA REQUIREMENTS.
10. BASED ON THE GEOLOGIC DATA ON MISSOURI DEPARTMENT OF NATURAL RESOURCES WEB SITE THERE ARE NO KNOWN WELLS ON THE SITE.
11. 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 2012 INTERNATIONAL FIRE CODE AND LOCAL AMENDMENTS.
12. IFC 903.3.7 - FIRE DEPARTMENT CONNECTIONS. THE LOCATION OF FIRE DEPARTMENT CONNECTIONS SHALL BE APPROVED BY THE FIRE CODE OFFICIAL. CONNECTIONS SHALL BE 4 INCH STORZ TYPE FITTING AND LOCATED WITHIN 100 FEET OF A FIRE HYDRANT, OR AS APPROVED BY THE CODE OFFICIAL.
13. IFC 507.5.1 - WHERE A PORTION OF THE FACILITY OR BUILDING HEREAFTER CONSTRUCTED OR MOVED INTO OR WITHIN THE JURISDICTION IS MORE THAN 300 FEET FROM A HYDRANT ON A FIRE APPARATUS ACCESS ROAD, AS MEASURED BY AN APPROVED ROUTE AROUND THE EXTERIOR OF THE FACILITY OR BUILDING, ON-SITE FIRE HYDRANTS AND MAINS SHALL BE PROVIDED WHERE REQUIRED BY THE FIRE CODE OFFICIAL.
14. IFC 503.2.3 - FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS AND SHALL BE SURFACED SO AS TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES.
15. IFC 506.1 - WHERE ACCESS TO OR WITHIN A STRUCTURE OR AN AREA IS RESTRICTED BECAUSE OF SECURED OPENINGS OR WHERE IMMEDIATE ACCESS IS NECESSARY FOR LIFE-SAVING OR FIRE-FIGHTING PURPOSES, THE FIRE CODE OFFICIAL IS AUTHORIZED TO REQUIRE A KEY BOX TO BE INSTALLED IN AN APPROVED LOCATION. THE KEY BOX SHALL BE OF AN APPROVED TYPE LISTED IN ACCORDANCE WITH UL 1037, AND SHALL CONTAIN KEYS TO GAIN NECESSARY ACCESS AS REQUIRED BY THE FIRE CODE OFFICIAL. 506.1.1 LOCKS AND APPROVED LOCK SHALL BE INSTALLED ON GATES OR SIMILAR BARRIERS WHEN REQUIRED BY THE FIRE CODE OFFICIAL. A KNOX PADLOCK WILL BE PROVIDED ON THE GATE AND A KNOX BOX ON THE BUILDING.
16. PLEASE NOTE THAT PARKING LOT DESIGN MUST MEET THE UDO ARTICLE 12 REQUIREMENTS AND THE PRIVATE DRIVE MUST MEET PUBLIC STREET DESIGN STANDARDS PER THE DESIGN AND CONSTRUCTION MANUAL SECTION 5200.
17. SANITARY SEWER MAIN AND EASEMENTS FOR LOT 35 WILL BE PROVIDED IN THE FUTURE WHEN THE LOT IS DEVELOPED.

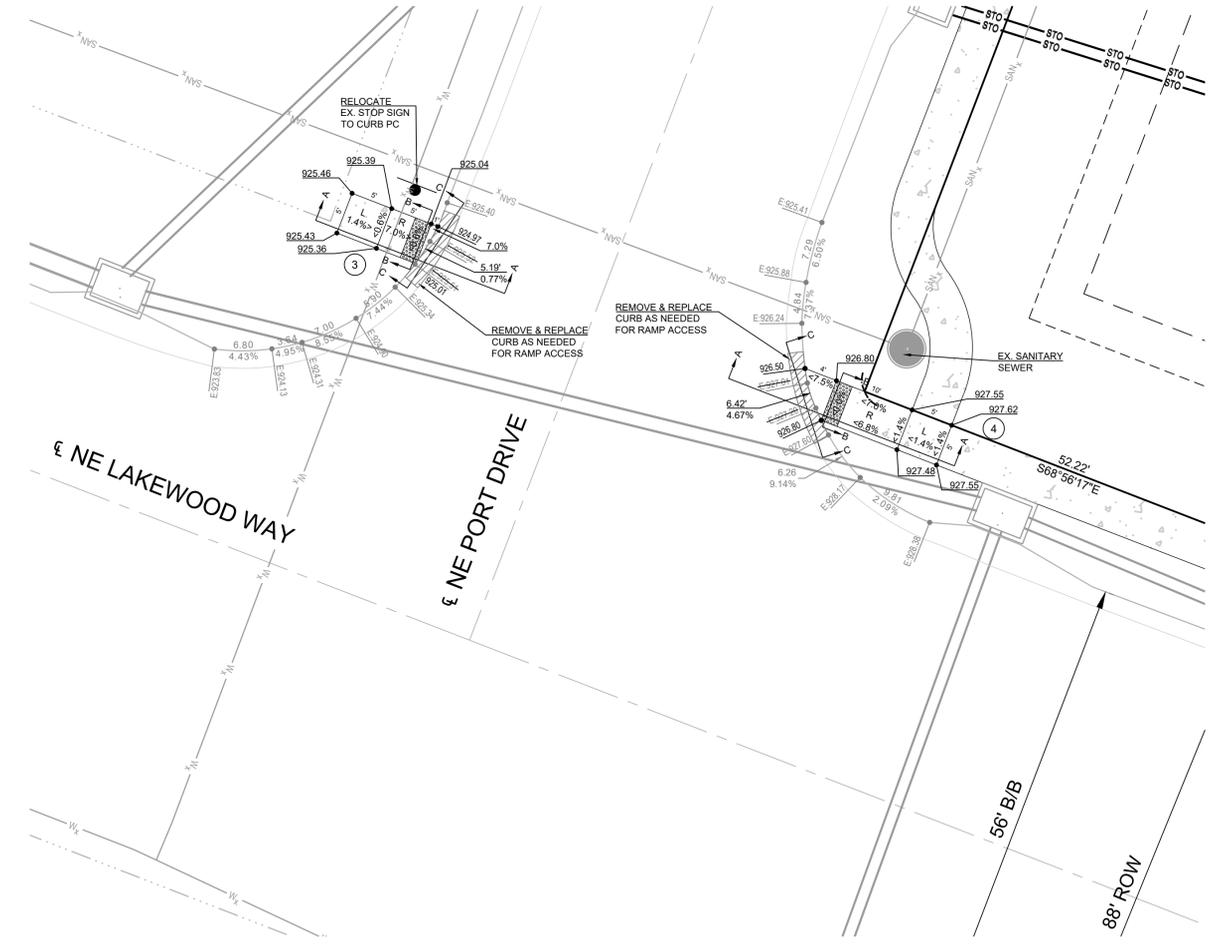
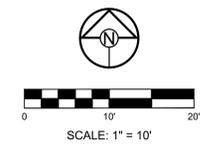


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RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
09/15/2021



PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

LAKWOOD BUSINESS PARK - LOT 35
FINAL DEVELOPMENT PLANS
4101 NE PORT DRIVE
LEE'S SUMMIT, MISSOURI

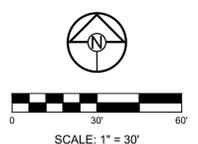
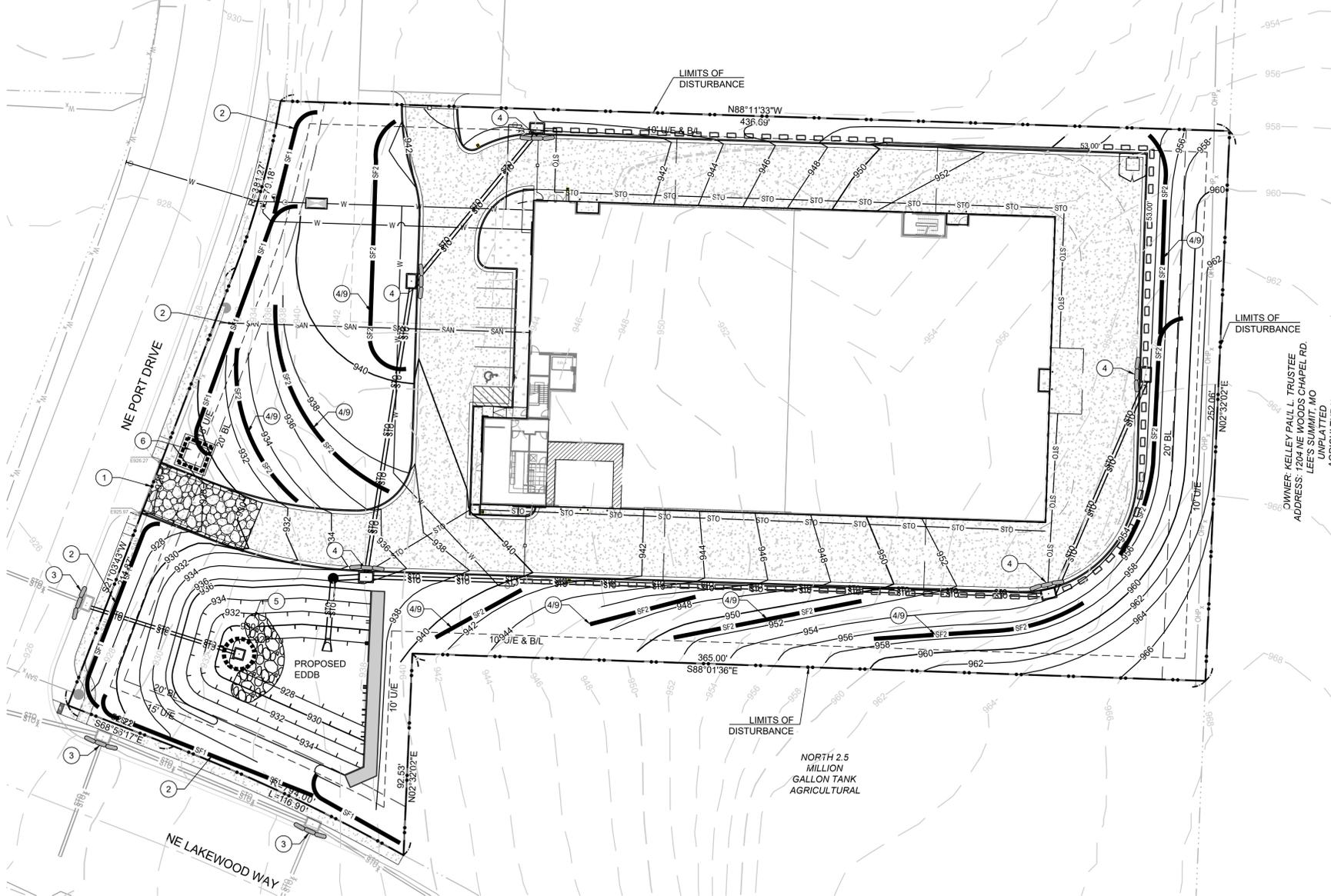
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09/07/2021	City Comments

DRAWN BY:	RPM
CHECKED BY:	JTS
DATE PREPARED:	08/25/2021
PROJ. NUMBER:	20-281

INTERSECTION
DETAILS

SHEET
C2.1

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EROSION AND SEDIMENT CONTROL STAGING CHART				
PROJECT STAGE	BMP PLAN REF. NO	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
A - PRIOR TO LAND DISTURBANCE	1	CONSTRUCTION ENTRANCE & STAGING AREA	D	MAINTAIN, REPAIR, OR REPLACE AS NECESSARY
	2	SILT FENCE (PRIOR TO LAND DISTURBANCE)	E	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
	3	EXISTING INLET PROTECTION (GRAVEL CURB INLET SEDIMENT TRAP)	E	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
B - MASS GRADING	4	SILT FENCE (DURING CONSTRUCTION)	E	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
	5	TEMP. SEDIMENT TRAP (REF. DETAIL ON SHEET C3.1)	E	TO BE INSTALLED PRIOR TO DISTURBING ENTIRE SITE.
C - UTILITY CONSTRUCTION	6	CONCRETE WASHOUT AREA	E	MAINTAIN, REPAIR, OR REPLACE AS NECESSARY
	7	INLET PROTECTION (SILT FENCE)	D/E	PLACE SILT FENCE AROUND ALL STORM SEWER STRUCTURES / YARD AREA STORM STRUCTURES PRIOR TO TOPS BEING PLACED SILT FENCE REMOVED & REPLACE WITH #7 BELOW WITH PLACEMENT OF TOPS AND/OR STABILIZATION OF DRAINAGE AREAS.
D - AFTER PAVING OPERATIONS	8	INLET PROTECTION (GRAVEL FILTER BAGS)	E	BOARDS SHALL BE PLACED IN FRONT OF INLET OPENING FROM THE TIME SILT FENCE IS REMOVED UNTIL SUCH TIME THAT THE CURB / THROAT IS POURED. PLACE GRAVEL FILTER BAGS AT THE OPENING OF ALL CURB INLETS IMMEDIATELY AFTER THE INLET THROATS ARE POURED
	9	SILT FENCE (AFTER CURB CONSTRUCTION)	E	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
	10	SEEDING AND MULCHING	E	ALL DISTURBED AREAS AFTER 14 DAYS OF CONSTRUCTION INACTIVITY
E - UNTIL CLOSURE OF LAND DISTURBANCE PERMIT	11			ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED ANY TIME CURRENT MEASURES ARE FOUND TO BE INEFFECTIVE.

DISTURBED AREA = 2.93 A.C.

SITE SPECIFIC NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.
- THERE ARE NO WETLANDS, NATURAL OR ARTIFICIAL WATER STORAGE DETENTION AREAS IN THE PROJECT AREA.
- NO PART OF THE PROJECT LIES WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD INSURANCE RATE MAP NUMBER 29095C0414G DATED JANUARY 20, 2017.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED ACCORDING TO THE BMP STAGING CHART.
- ADDITIONAL EROSION CONTROL MAY BE REQUIRED BY THE CITY ENGINEER AT ANY TIME EXISTING MEASURES ARE FOUND TO BE INEFFECTIVE OR PROBLEMATIC AREAS ARE NOTED IN THE FIELD.
- STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING, OR OTHER SOIL DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. THE DISTURBED AREAS SHALL BE PROTECTED FROM EROSION BY STABILIZING THE AREA WITH MULCH OR OTHER SIMILARLY EFFECTIVE SOIL STABILIZING BMPs. INITIAL STABILIZATION ACTIVITIES MUST BE COMPLETED WITHIN 14 DAYS AFTER SOIL DISTURBING ACTIVITIES CEASE.
- ALL PERIMETER SILT FENCE, EARTH DIKES, SEDIMENT BASINS, AND ROCK CONSTRUCTION ENTRANCES WILL BE INSTALLED BEFORE GRADING OPERATIONS BEGIN.
- SILT FENCE AND EARTH DIKES THAT ARE PLACED BEFORE GRADING BEGINS WILL BE MAINTAINED BY THE GRADING CONTRACTOR.
- AREAS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE SODDED IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE.

LEGEND	
	TEMPORARY STORAGE AREA FOR EXCESS MATERIAL
	TEMP. CONSTRUCTION ENTRANCE AND STAGING AREA
	CONCRETE WASHOUT AREA
	SILT FOAM DIKE - STAKED & INSTALL PER MFR'S RECOMMENDATIONS
	ROCK DITCH CHECK
	GRAVEL CURB INLET SEDIMENT TRAP
	BMP PLAN REF. NO.
	SILT FENCE (PRIOR TO LAND DISTURBANCE)
	SILT FENCE (DURING CONSTRUCTION)
	CONSTRUCTION FENCE
	LIMITS OF DISTURBANCE
	EXISTING CONTOURS
	PROPOSED CONTOURS
	STRAW BALE DITCH CHECK
	GRAVEL FILTER FOR STORM SEWER STRUCTURES ONLY
	TEMP. SEDIMENT TRAP BERM

PROJECT BENCHMARK:

MONUMENT FOUND CHISELED "SQUARE" ON STORM CURB INLET #30 AT NORTHWEST INTERSECTION OF SW. TOWER PARK DRIVE AND SW. LONGVIEW BOULEVARD.
 NORTHING: 998893.4148
 EASTING: 2803318.5413
 ELEV. 1004.09

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PREPARED BY:

SCHLAGEL & ASSOCIATES, P.A.

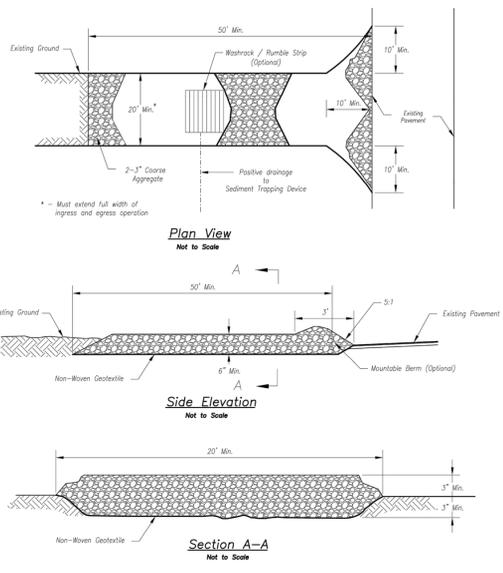
LAKELWOOD BUSINESS PARK - LOT 35
 FINAL DEVELOPMENT PLANS
 4101 NE PORT DRIVE LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
09/13/2021	City Comments
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20-281	

EROSION CONTROL PLAN

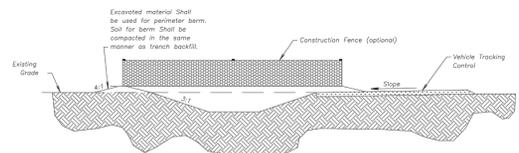
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- Notes for Concrete Washout:**
- Concrete washout areas shall be installed prior to any concrete placement on site.
 - Concrete washout areas shall include a flat subsurface pit sized relative to the amount of concrete to be placed on site. The slope leading out of the subsurface pit shall be 2:1. The vehicle tracking pad shall be placed towards the concrete washout area.
 - Vehicle tracking control is required at the access point to all concrete washout areas.
 - Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout area(s) to operators of concrete truck and pump rigs.
 - A one-piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils.

- Maintenance for Concrete Washout:**
- Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
 - Concrete washout areas shall be enlarged as necessary to maintain capacity for washed concrete.
 - Concrete washout water, washed pieces of concrete and all other debris in the subsurface pit shall be transported from the job site in a water-tight container and disposed of properly.
 - Concrete washout areas shall remain in place until all concrete for the project is placed.
 - When concrete washout areas are removed, excavations shall be filled with suitable compacted backfill and topped, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.



CONCRETE WASHOUT

AMERICAN PUBLIC WORKS ASSOCIATION
 KANSAS CITY METRO CHAPTER
 CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT
 STANDARD DRAWING NUMBER ESC-01
 ADOPTED: 10/24/2016

Notes for Construction Entrances:

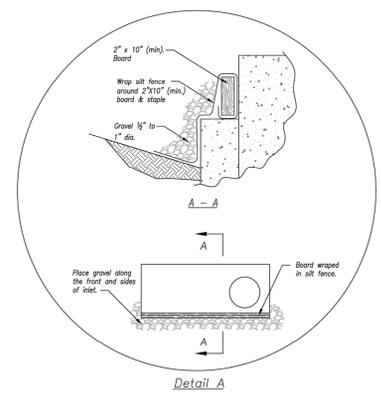
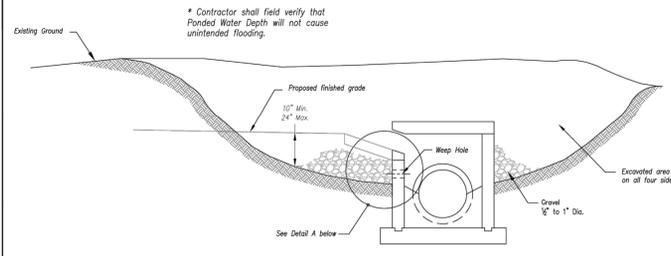
- Avoid locating on steep slopes, or curves on public roads, or downhill of disturbed area.
- Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
- If slope towards the public road exceeds 2%, construct a 6- to 8-inch high ridge with 3:1 IV side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.
- Install pipe under the entrance if needed to maintain drainage ditches along public roads.
- Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.
- Divert all surface runoff and drainage from the entrance to a sediment control device.
- If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

Maintenance for Construction Entrances:

- Reshape entrance as needed to maintain function and integrity of installation. Top dress with clean aggregate as needed.

CONSTRUCTION ENTRANCE

Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control; Concrete Washout modified from 2009 City of Great Bend Standard Drawings.



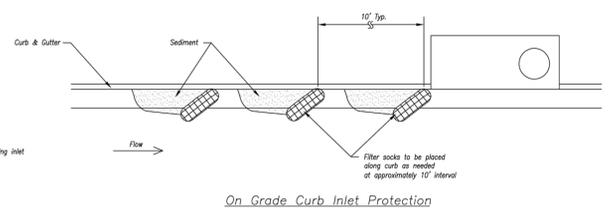
EARLY STAGE CURB INLET
(Open Box and Prior to Pouring Curb and Inlet Throat)

- Notes:**
- Immediately following inlet construction and prior to construction of curb and inlet throat, protect inlet opening by installing 2' x 10' (min.) board wrapped in silt fence. Structures shall have excavated storage area on all four sides to allow settling of sediment (Early Stage Curb Inlet).
 - When inlet is completed and curb poured, filter socks or approved equal should be used (Late Stage Curb Inlet). Stone weirs are not approved for curb inlet use.
 - Contractor to field verify ponding water shall not create a traffic hazard.

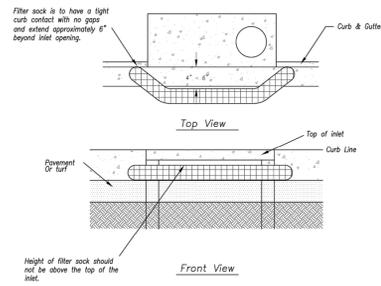
Maintenance:

- Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
- Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
- Repair or replace as necessary to maintain function and integrity of installation.

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.



On Grade Curb Inlet Protection



Sump Inlet Sediment Filter

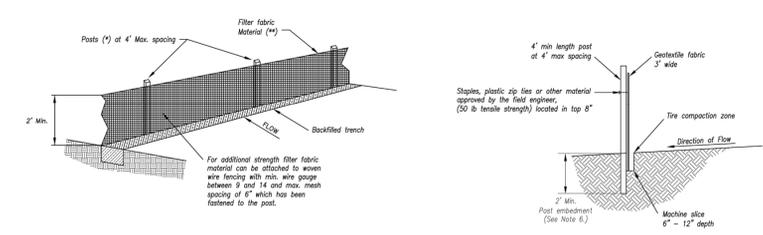
LATE STAGE CURB INLET
(After Pouring Curb and Inlet Throat)

AMERICAN PUBLIC WORKS ASSOCIATION
 KANSAS CITY METRO CHAPTER
 CURB INLET PROTECTION
 STANDARD DRAWING NUMBER ESC-06
 ADOPTED: 10/24/2016



SCHLAGEL & ASSOCIATES, P.A.

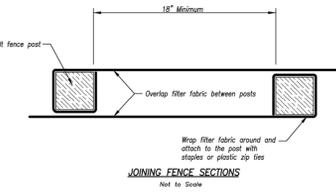
LAKELWOOD BUSINESS PARK - LOT 35
 FINAL DEVELOPMENT PLANS
 4101 NE PORT DRIVE LEE'S SUMMIT, MISSOURI



- Notes:**
- In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
 - Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
 - Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
 - Attach fabric to upstream side of post.
 - Install posts a minimum of 2' into the ground.
 - Trenching will only be allowed for small or difficult installation, where slicing machine cannot be reasonably used.

Maintenance:

- Remove and dispose of sediment deposits when the deposit approaches 1/2 the height of the silt fence.
- Repair as necessary to maintain function and structure.



AMERICAN PUBLIC WORKS ASSOCIATION
 KANSAS CITY METRO CHAPTER
 SILT FENCE
 STANDARD DRAWING NUMBER ESC-03
 ADOPTED: 10/24/2016

- (*) EGDSIS**
- MIN. LENGTH 4'
 - HARDWARE 1 1/2" x 1 3/8"
 - NO.2 SOUTHERN PINE 2 1/2" x 2 1/2"
 - STEEL 1.33 LB/FT

(**) - Geotextile Fabric shall meet the requirements of MSHTO M218B

SILT FENCE DETAILS

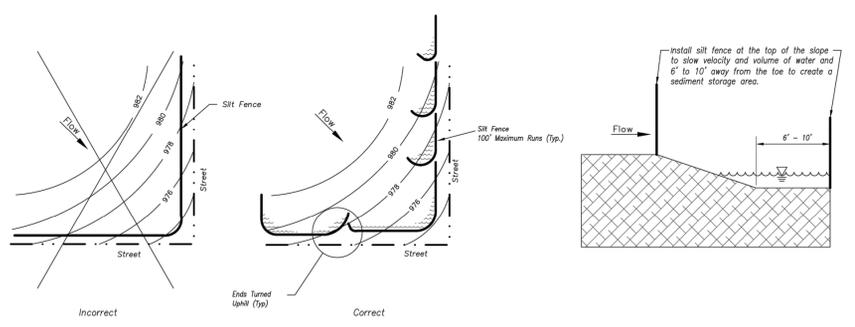
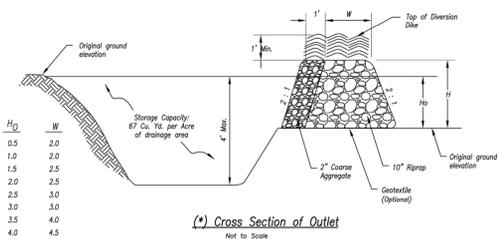


Figure A

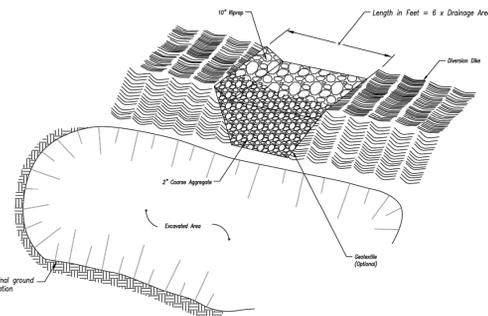
SILT FENCE LAYOUT

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.



(*) Cross Section of Outlet

H	H ₀	W
1.5	0.5	2.0
2.0	1.0	2.0
2.5	1.5	2.5
3.0	2.0	2.5
3.5	2.5	3.0
4.0	3.0	3.0
4.5	3.5	4.0
5.0	4.0	4.5



(*) Perspective View of Outlet

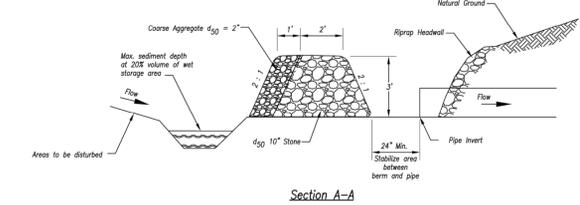
Notes for Sediment Trap:

- The area under the embankment shall be cleared, grubbed, and stripped of any vegetation and root mat.
- Fill material for the embankment shall be free of roots or other woody vegetation, organic material, large stones, and other objectionable material. The embankment should be compacted in 6-inch layers by tamping with construction equipment.
- The northern embankment shall be stabilized immediately after installation.
- Construction operations shall be carried out to minimize erosion and water pollution.
- The structure shall be removed and the area stabilized when the upslope drainage area has been stabilized.
- All cut and fill slopes shall be 2H : 1V or flatter, except for excavated wet storage areas which may be at a maximum 1H : 1V grade.

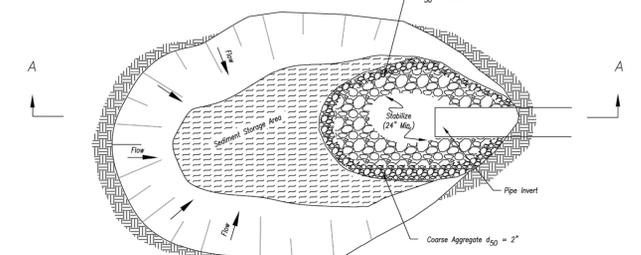
Maintenance for Sediment Trap:

- Check sediment traps after periods of significant runoff.
- Remove sediment and restore the trap to its original dimensions when sediment accumulates to 20% of the storage capacity.
- Immediately repair any erosion damage to the embankment and outlet.
- Keep outlet and pool area free of all trash and other debris.

SEDIMENT TRAP



Section A-A



Plan View

Notes for Sediment Trap at Culvert Opening:

- The inlet protection device shall be constructed in a manner that will facilitate clean-out and disposal of trapped sediment and minimize interference with construction activities.
- The inlet protection device shall be constructed in such manner that any resultant ponding stormwater will not cause excessive inconvenience or damage to adjacent areas or structures.
- The toe of the riprap shall be no closer than 24" from the culvert opening to provide an acceptable emergency outlet for flows from larger storm events.
- Storage requirements equivalent to that of temporary sediment trap.
- 67 CY/Acre wet storage below base of stone.
- 67 CY/Acre dry storage from base of stone to top of stone berm.

Maintenance for Sediment Trap at Culvert Opening:

- Check sediment traps after periods of significant runoff.
- Remove sediment and restore the trap to its original dimensions when sediment accumulates to 20% of the storage capacity.
- Immediately repair any erosion damage to the embankment and outlet.
- Keep outlet and pool area free of all trash and other debris.

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 09/15/2021

AMERICAN PUBLIC WORKS ASSOCIATION
 KANSAS CITY METRO CHAPTER
 SEDIMENT TRAPS
 STANDARD DRAWING NUMBER ESC-08
 ADOPTED: 10/24/2016

REVISION DATE	DESCRIPTION
08/13/2021	City Comments
08/30/2021	City Comments
09/07/2021	City Comments
09/25/2021	City Comments

AMERICAN PUBLIC WORKS ASSOCIATION
 KANSAS CITY METRO CHAPTER
 EROSION CONTROL DETAILS
 STANDARD DRAWING NUMBER ESC-08
 ADOPTED: 10/24/2016

SHEET C3.1

Schlagel & Associates, P.A.

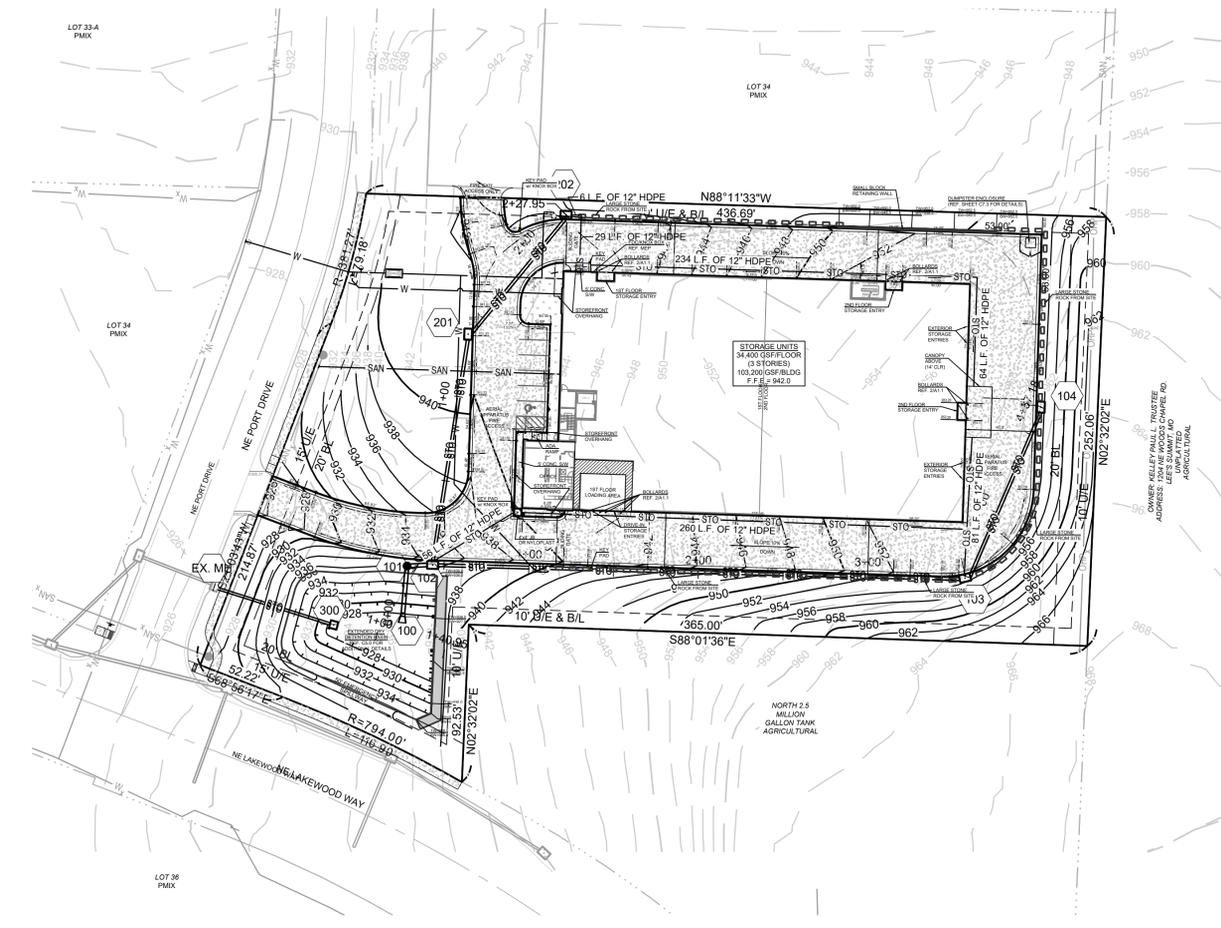
Project Name: LAKEWOOD BUSINESS PARK
 Project #: 18-222
 Time: 6/22/2021 11:14
 City: LEE'S SUMMIT
 Curb Type: A

Design Storm: 10
 "K" Value: 1.00

Runoff Calculations											Pipe Properties																
Inlet #	Area (acres)	"C" Value	Cumul. Area (acres)	Cumul. Cx	Tc	Intensity	Runoff To Inlet	Cumul. Runoff	Pipe Cap.	Pipe Vel.	Up Piped Inlet 1	Up Piped Inlet 2	Up Area (acres)	Up Cx	Up Inlet	Down Inlet	Pipe Type	"n" Value	Pipe Size	Length	Slope %	Drop In Inlet	FL Up	FL Down	Inlet Top	HGL Elev.	
LINE 100																											
101	0.00	0.70	2.83	1.98	5.6	7.18	0.00	14.24	25.70	8.18			0.00	0.00	101	100	PEP	0.012	24	28.19	1.10	3.01	926.31	926.00	935.12	927.97	
102	1.95	0.70	2.83	1.98	5.6	7.18	9.82	14.24	64.84	20.64	201		0.32	0.22	102	101	PEP	0.012	24	15.10	7.00	0.50	930.38	929.32	935.50	932.04	
103	0.28	0.70	0.56	0.39	5.2	7.30	1.44	2.87	24.13	13.65			0.00	0.00	103	102	PEP	0.012	18	314.03	4.50	0.50	945.00	930.88	953.21	945.76	
104	0.28	0.70	0.28	0.20	5.0	7.35	1.44	1.44	17.18	9.72			0.00	0.00	104	103	PEP	0.012	18	109.83	2.28	0.50	948.00	945.50	953.33	948.53	
LINE 200																											
201	0.09	0.70	0.32	0.22	5.2	7.29	0.45	1.62	12.12	9.88			0.00	0.00	201	102	PEP	0.012	15	137.13	3.00	0.50	934.99	930.88	941.28	935.59	
202	0.23	0.70	0.23	0.16	5.0	7.35	1.19	1.19	8.99	7.33			0.00	0.00	202	201	PEP	0.012	15	90.81	1.65	0.50	936.99	935.49	942.42	937.49	

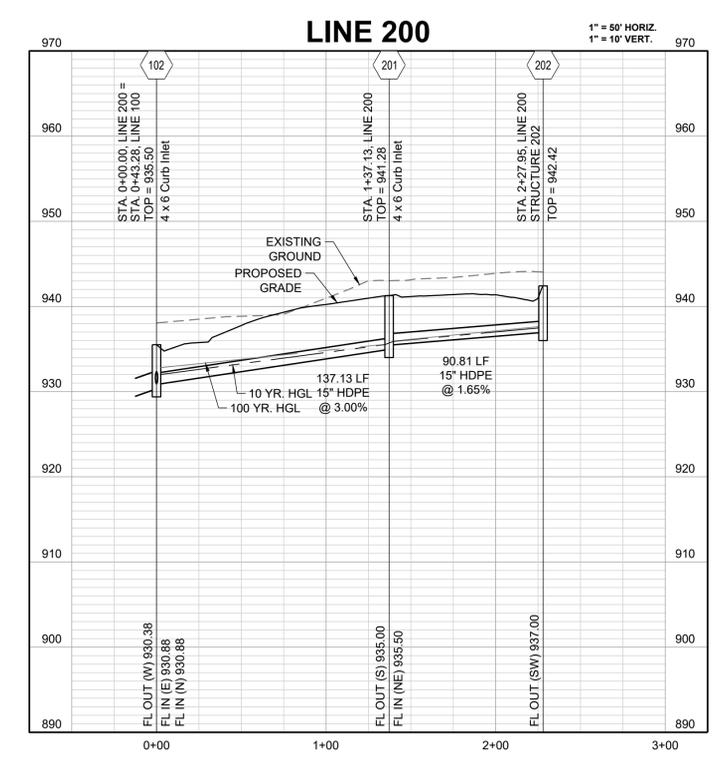
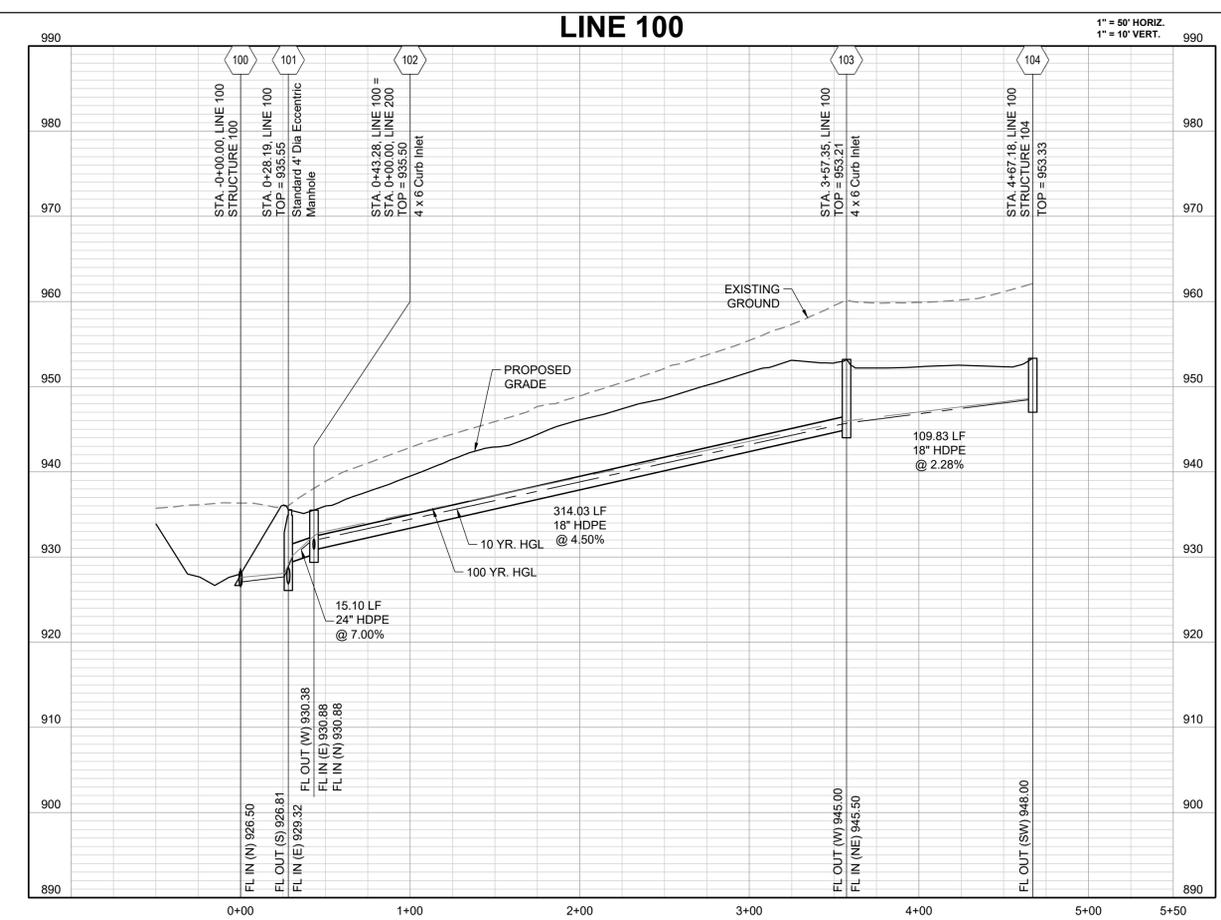
Design Storm: 100
 "K" Value: 1.25

Runoff Calculations											Pipe Properties																
Inlet #	Area (acres)	"C" Value	Cumul. Area (acres)	Cumul. Cx	Tc	Intensity	Runoff To Inlet	Cumul. Runoff	Pipe Cap.	Pipe Vel.	Up Piped Inlet 1	Up Piped Inlet 2	Up Area (acres)	Up Cx	Up Inlet	Down Inlet	Pipe Type	"n" Value	Pipe Size	Length	Slope %	Drop In Inlet	FL Up	FL Down	Inlet Top	HGL Elev.	
LINE 100																											
101	0.00	0.70	2.83	1.98	5.6	10.09	0.00	25.01	25.70	8.18			0.00	0.00	101	100	PEP	0.012	24	28.19	1.10	3.01	926.31	926.00	935.12	928.64	
102	1.95	0.70	2.83	1.98	5.6	10.09	17.24	25.02	64.84	20.64	201		0.32	0.22	102	101	PEP	0.012	24	15.10	7.00	0.50	930.38	929.32	935.50	932.70	
103	0.28	0.70	0.56	0.39	5.2	10.24	2.53	5.04	24.13	13.65			0.00	0.00	103	102	PEP	0.012	18	314.03	4.50	0.50	945.00	930.88	953.21	946.04	
104	0.28	0.70	0.28	0.20	5.0	10.32	2.53	2.53	17.18	9.72			0.00	0.00	104	103	PEP	0.012	18	109.83	2.28	0.50	948.00	945.50	953.33	948.72	
LINE 200																											
201	0.09	0.70	0.32	0.22	5.2	10.24	0.79	2.85	12.12	9.88			0.00	0.00	201	102	PEP	0.012	15	137.13	3.00	0.50	934.99	930.88	941.28	935.81	
202	0.23	0.70	0.23	0.16	5.0	10.32	2.08	2.08	8.99	7.33			0.00	0.00	202	201	PEP	0.012	15	90.81	1.65	0.50	936.99	935.49	942.42	937.68	



SCHLAGEL
 ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
 14920 West 107th Street • Lenexa, Kansas 66215
 (913) 492-5159 • Fax: (913) 492-8400
 WWW.SCHLAGELASSOCIATES.COM
 Missouri State Certificates of Authority
 #E200203600F #LAC2001005237 #LS200200869F

PREPARED BY:



Structure	Notes
100	STA -0+00.00, LINE 100 INSTALL 24 INCH RCP F.E.S. 264°58'18" N 1028415.6767 E 2830785.4381
101	STA 0+28.19, LINE 100 INSTALL STANDARD 4' DIA ECCENTRIC MANHOLE 84°58'17" N 1026443.7542 E 2830787.9087
102	STA 0+43.28, LINE 100 INSTALL 4 X 6 CURB INLET 88°11'33" N 1026444.3471 E 2830802.9959
103	STA 3+57.35, LINE 100 INSTALL 4 X 6 CURB INLET 102°35'10" N 1026436.7618 E 2831116.9328
104	STA 4+67.18, LINE 100 INSTALL 4 X 6 CURB INLET 178°11'33" N 1026537.0354 E 2831161.7330
201	STA 1+37.13, LINE 200 INSTALL 4 X 6 CURB INLET 358°11'08" N 1026579.8758 E 2830823.9201

RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 09/15/2021

SCHLAGEL & ASSOCIATES, P.A.

LAKEWOOD BUSINESS PARK - LOT 35
 FINAL DEVELOPMENT PLANS
 4101 NE PORT DRIVE
 LEE'S SUMMIT, MISSOURI

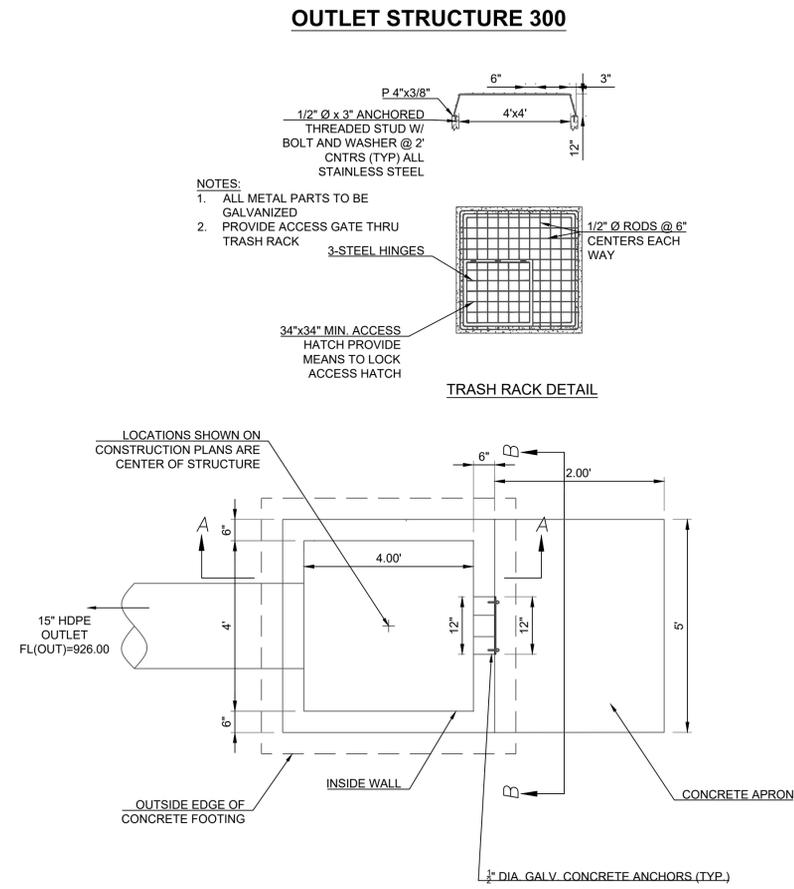
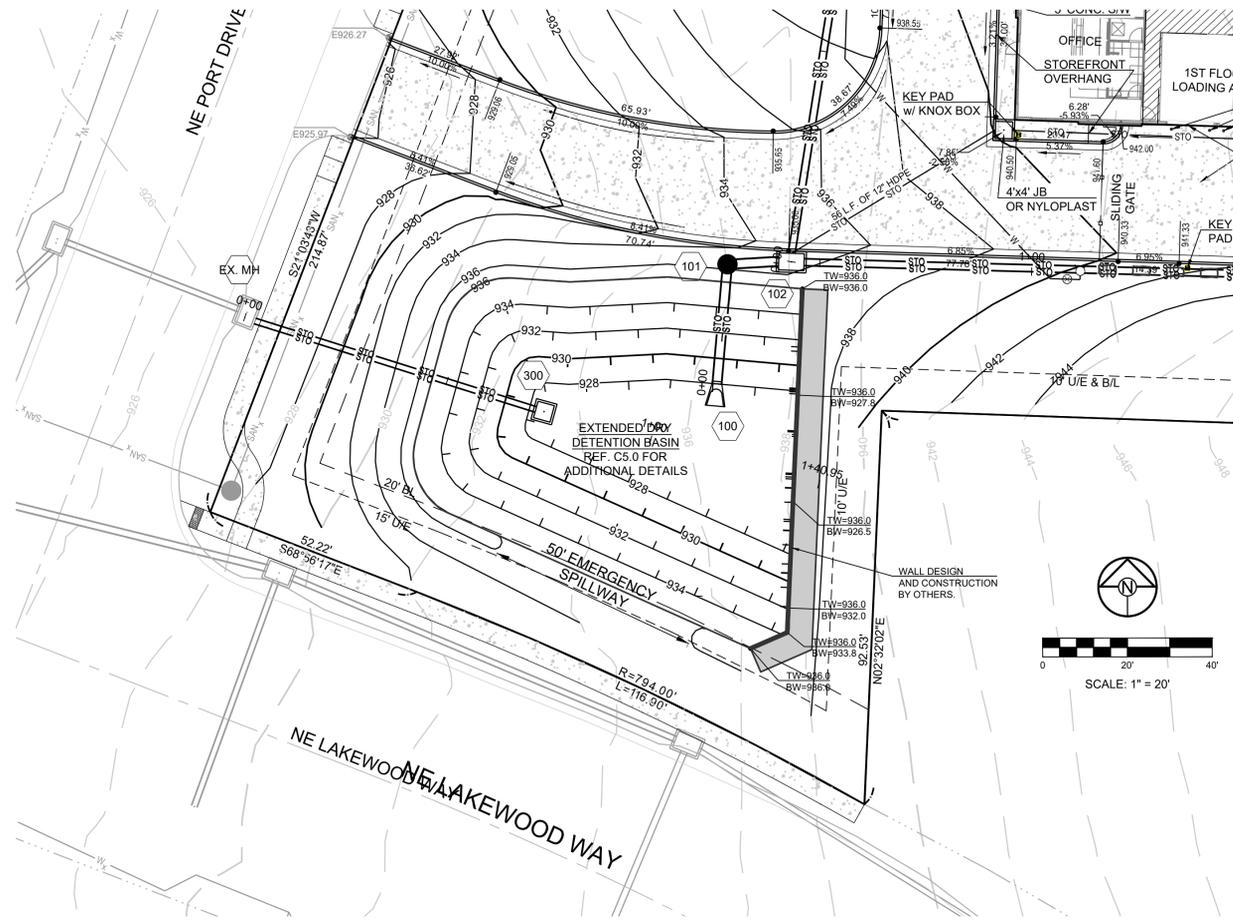
REVISION DATE	DESCRIPTION
09/13/2021	City Comments
08/30/2021	City Comments
09/07/2021	City Comments

DRAWN BY: RPM
 CHECKED BY: JTS
 DATE PREPARED: 08/25/2021
 PROJ. NUMBER: 20-381

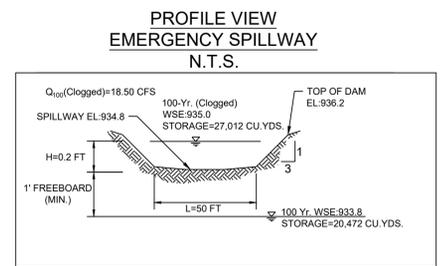
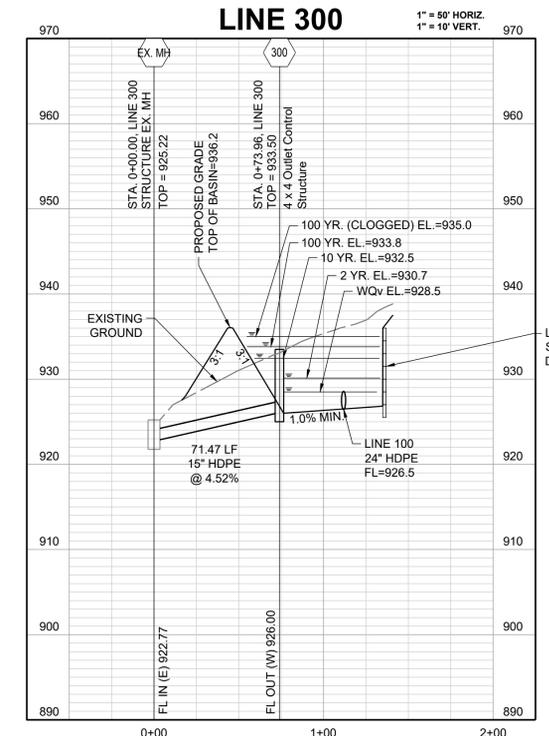
STORM SEWER PLAN & PROFILE

SHEET
C4.0

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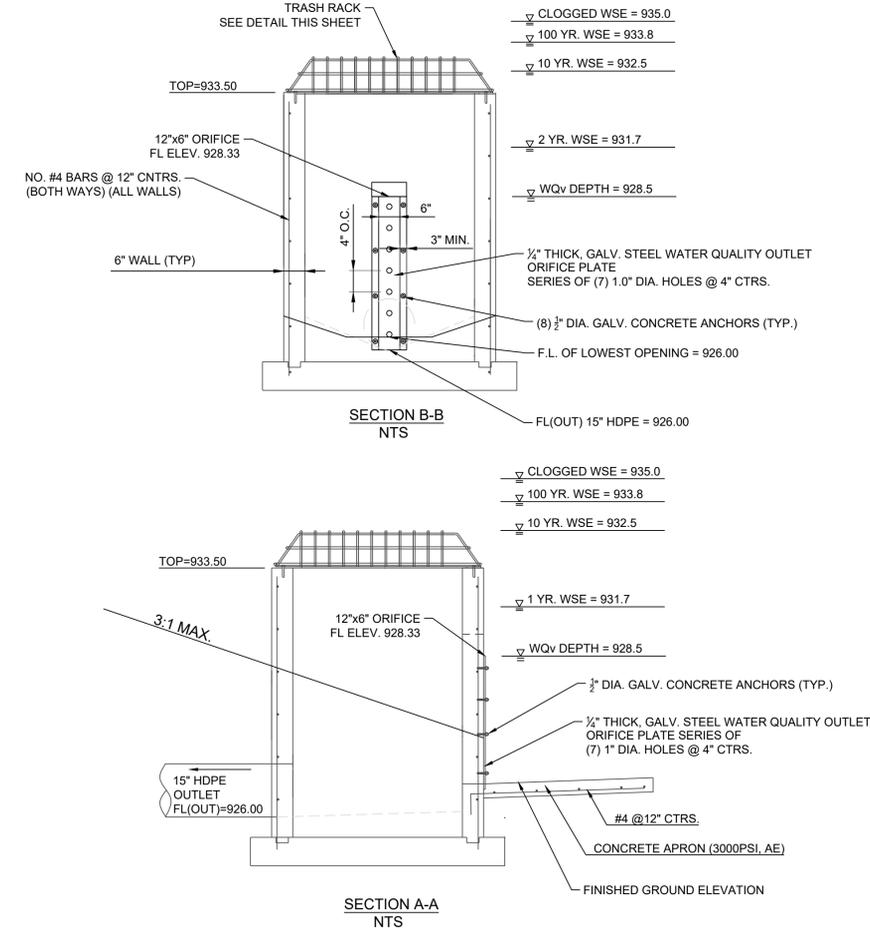


SECTION VIEW OF DAM OUTLET STRUCTURE LINE 300



OVERFLOW CALCULATIONS:
 $Q = C \cdot L \cdot H^{3/2}$
 • $Q = Q_{100}$
 • $C = 3.33$
 • $L = \text{BASE WIDTH}$
 • $H = \text{HEIGHT}$

Structure	Notes
300	STA 0+73.96, LINE 300 INSTALL 4 X 4 OUTLET CONTROL STRUCTURE 344"39"59" N 1026409.1464 E 2830744.6401



1-800-344-7483 or 811
mo1call.com

PREPARED BY:



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LAKWOOD BUSINESS PARK - LOT 35
 FINAL DEVELOPMENT PLANS
 4101 NE PORT DRIVE
 LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
08/13/2021	City Comments
08/30/2021	City Comments
09/07/2021	City Comments

DETENTION BASIN PLAN & PROFILE

SHEET
C5.0

RELEASE FOR
 CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 09/15/2021

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PREPARED BY:



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LAKWOOD BUSINESS PARK - LOT 35
FINAL DEVELOPMENT PLANS
4101 NE PORT DRIVE
LEE'S SUMMIT, MISSOURI

UTILITY INFORMATION & CONTACTS:

Missouri Gas Energy
 Attn: Lucas Walls
 3025 Southeast Clover Drive
 Lee's Summit, Missouri 64082
 Phone: (816) 969-2218
 Email: lucas.walls@sug.com

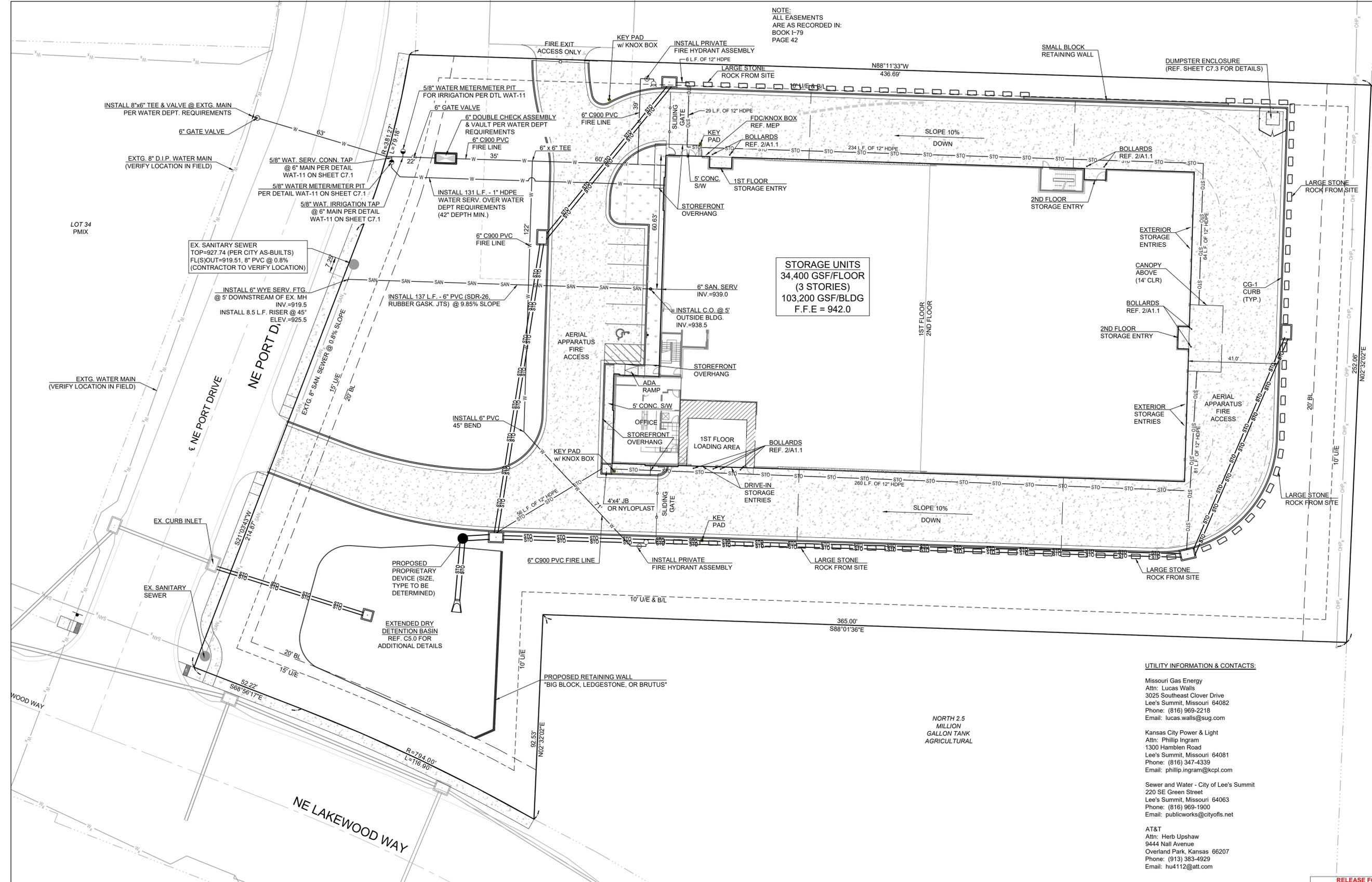
Kansas City Power & Light
 Attn: Phillip Ingram
 1300 Hamblen Road
 Lee's Summit, Missouri 64081
 Phone: (816) 347-4339
 Email: philip.ingram@kcpl.com

Sewer and Water - City of Lee's Summit
 220 SE Green Street
 Lee's Summit, Missouri 64063
 Phone: (816) 969-1900
 Email: publicworks@cityofls.net

AT&T
 Attn: Herb Upshaw
 9444 Nall Avenue
 Overland Park, Kansas 66207
 Phone: (913) 383-4929
 Email: hu4112@att.com

NORTH 2.5 MILLION GALLON TANK AGRICULTURAL

STORAGE UNITS
 34,400 GSF/FLOOR
 (3 STORIES)
 103,200 GSF/BLDG
 F.F.E = 942.0



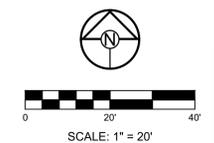
UTILITY STATEMENT:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDON. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 09/15/2021



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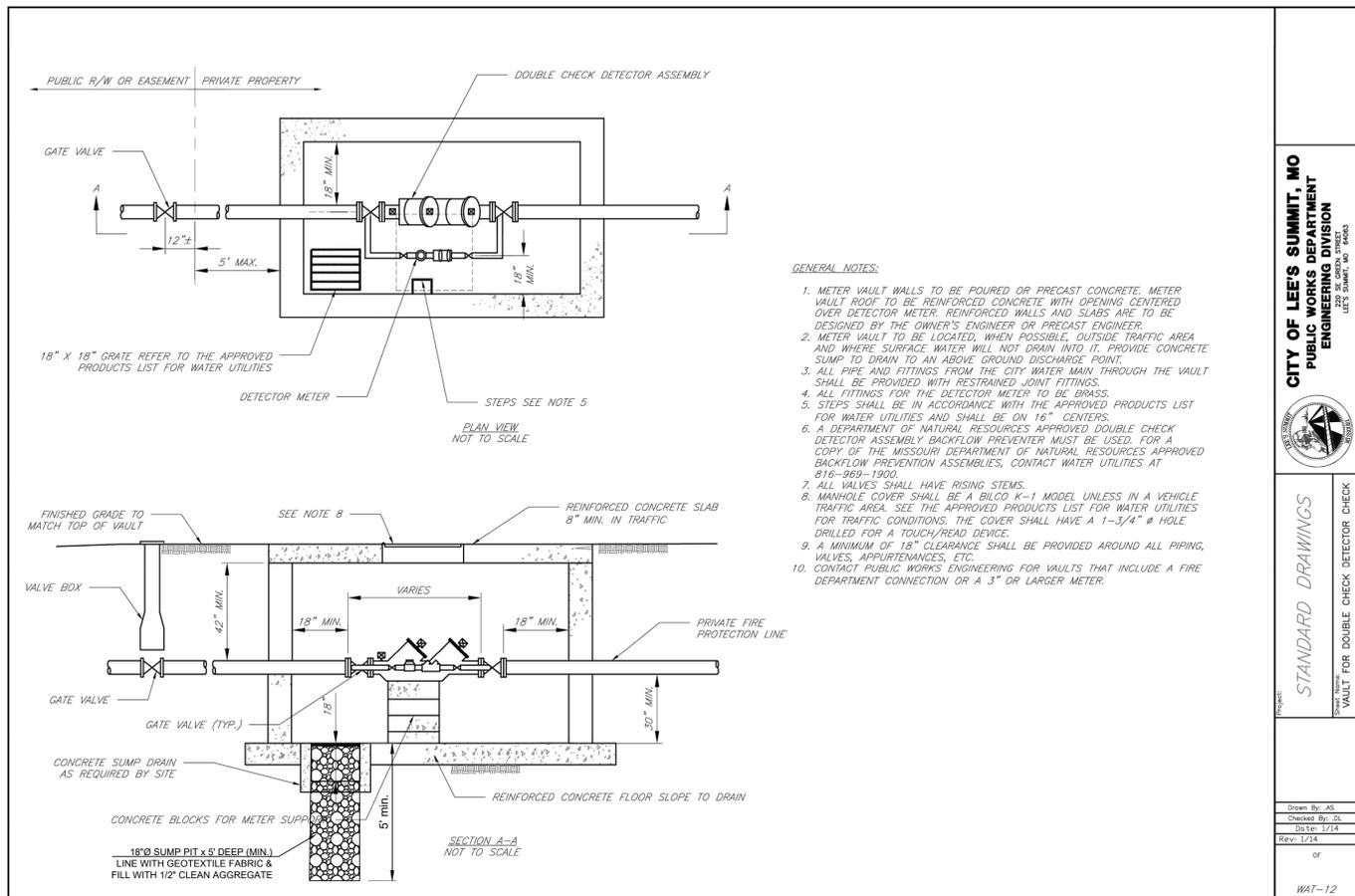


REVISION DATE	DESCRIPTION
09/13/2021	City Comments
09/30/2021	City Comments
09/07/2021	City Comments
08/25/2021	City Comments

UTILITY PLAN

SHEET
C6.0

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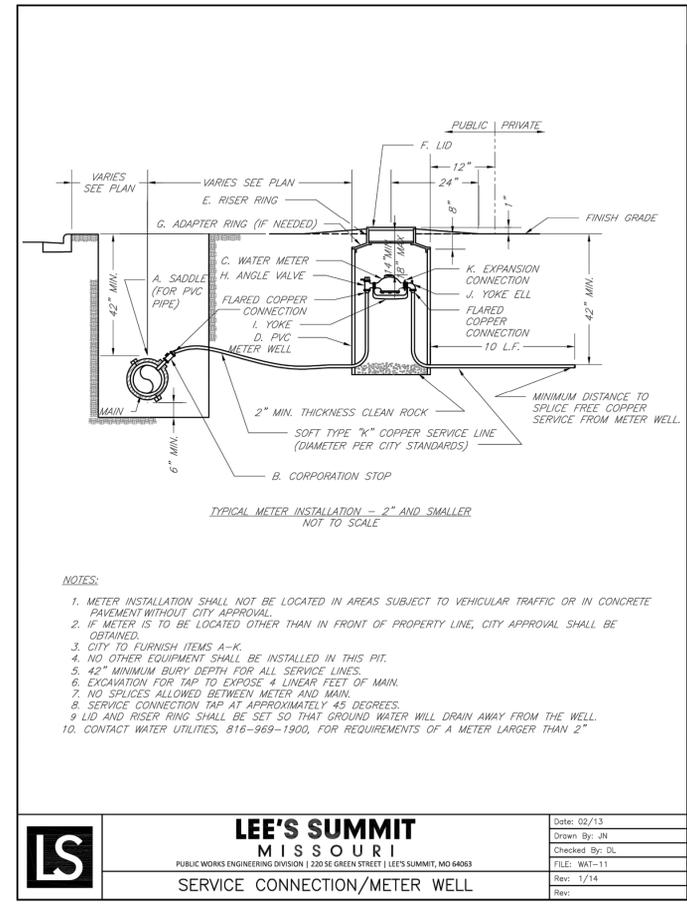


CITY OF LEE'S SUMMIT, MO
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION



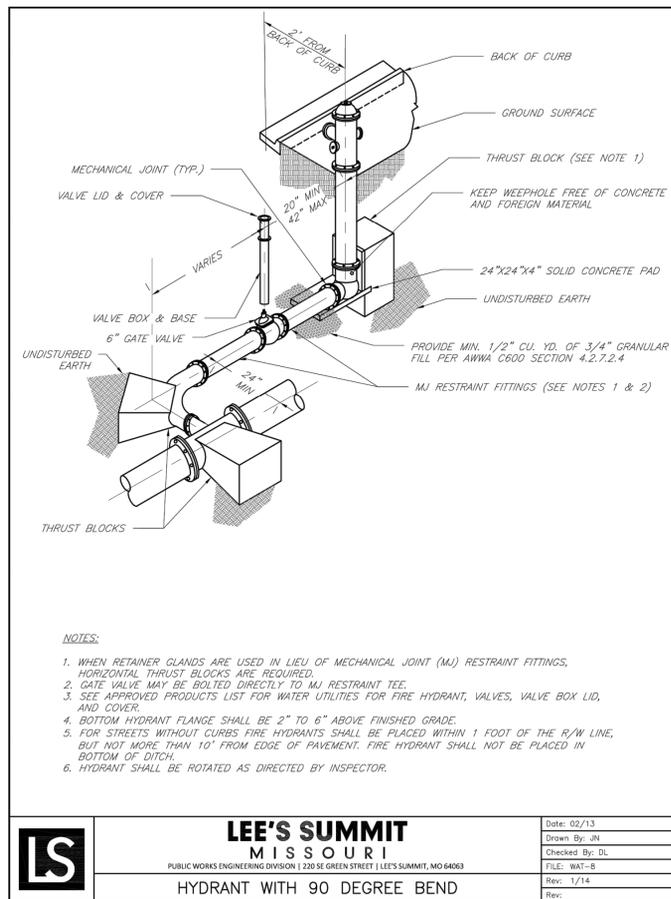
STANDARD DRAWINGS
TITLE: DOUBLE CHECK DETECTOR CHECK
DATE: 02/13

Drawn By: AS
Checked By: DL
Date: 1/14
Rev: 1/14
or
WAT-12



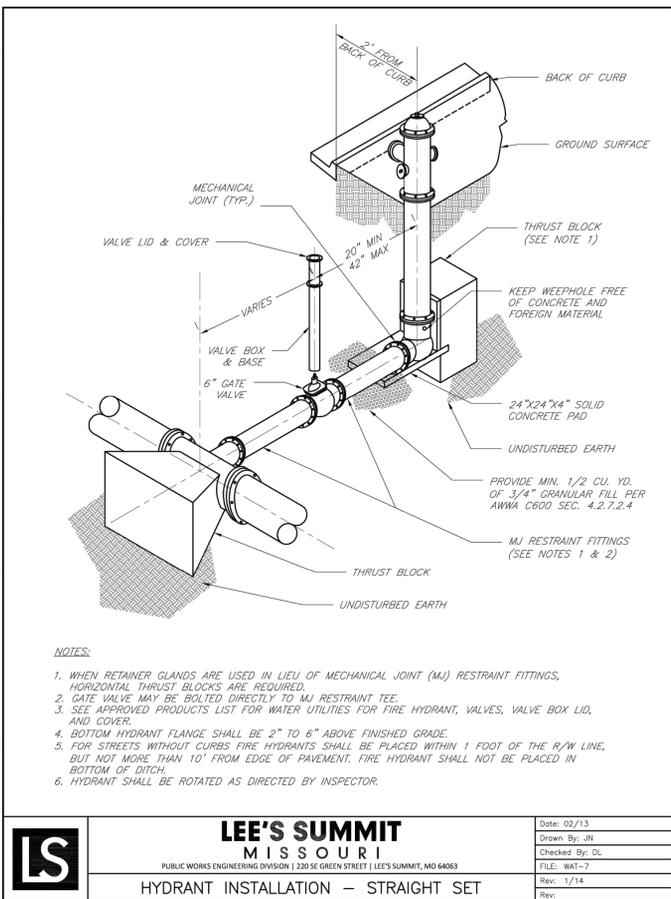
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 2205 SE GREEN STREET | LEE'S SUMMIT, MO 64063
SERVICE CONNECTION/METER WELL

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-11
Rev: 1/14



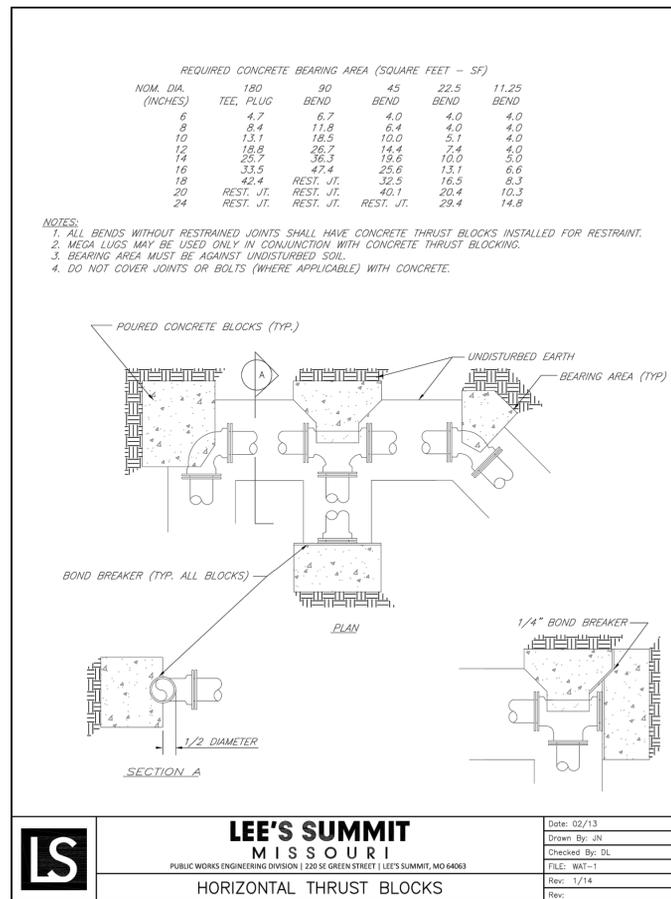
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 2205 SE GREEN STREET | LEE'S SUMMIT, MO 64063
HYDRANT WITH 90 DEGREE BEND

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-8
Rev: 1/14



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PUBLIC WORKS ENGINEERING DIVISION | 2205 SE GREEN STREET | LEE'S SUMMIT, MO 64063
HYDRANT INSTALLATION - STRAIGHT SET

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-7
Rev: 1/14



LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 2205 SE GREEN STREET | LEE'S SUMMIT, MO 64063
HORIZONTAL THRUST BLOCKS

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-1
Rev: 1/14

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
09/15/2021

SCHLAGEL
ENGINEERS
PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
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Missouri State Certificates of Authority
#E200200890F #LAC001005237 #LS200200895F

PREPARED BY:



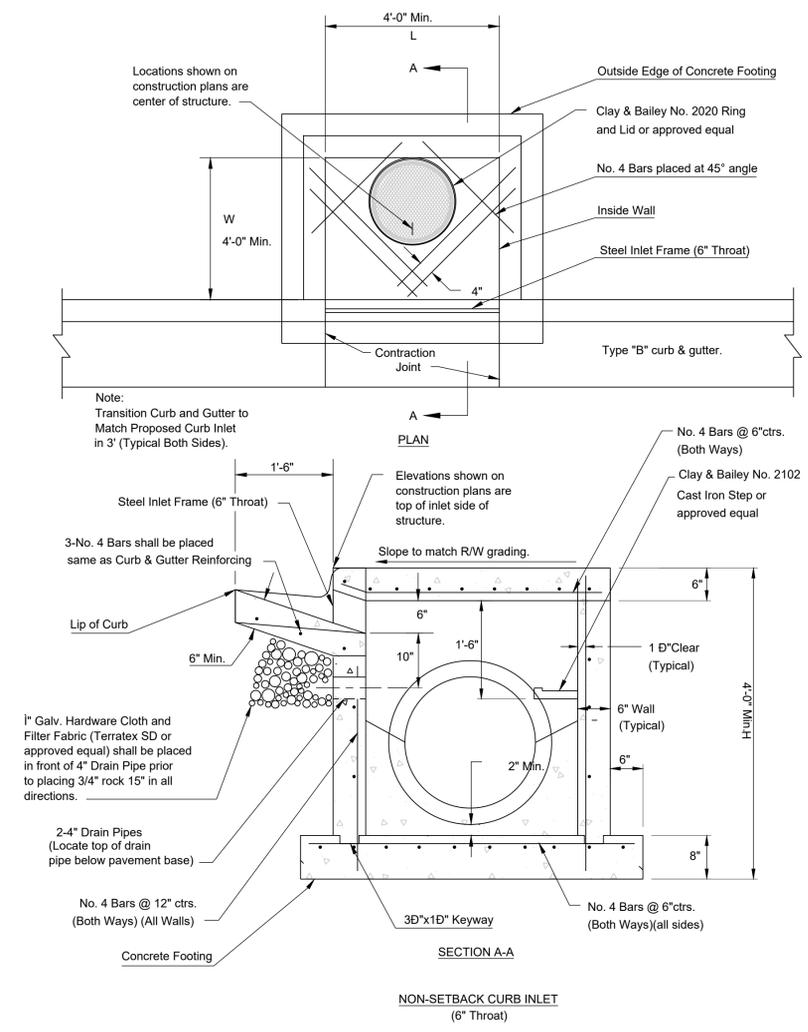
SCHLAGEL & ASSOCIATES, P.A.

LAKewood BUSINESS PARK - LOT 35
FINAL DEVELOPMENT PLANS
4101 NE PORT DRIVE
LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
08/13/2021	City Comments
08/30/2021	City Comments
09/07/2021	City Comments

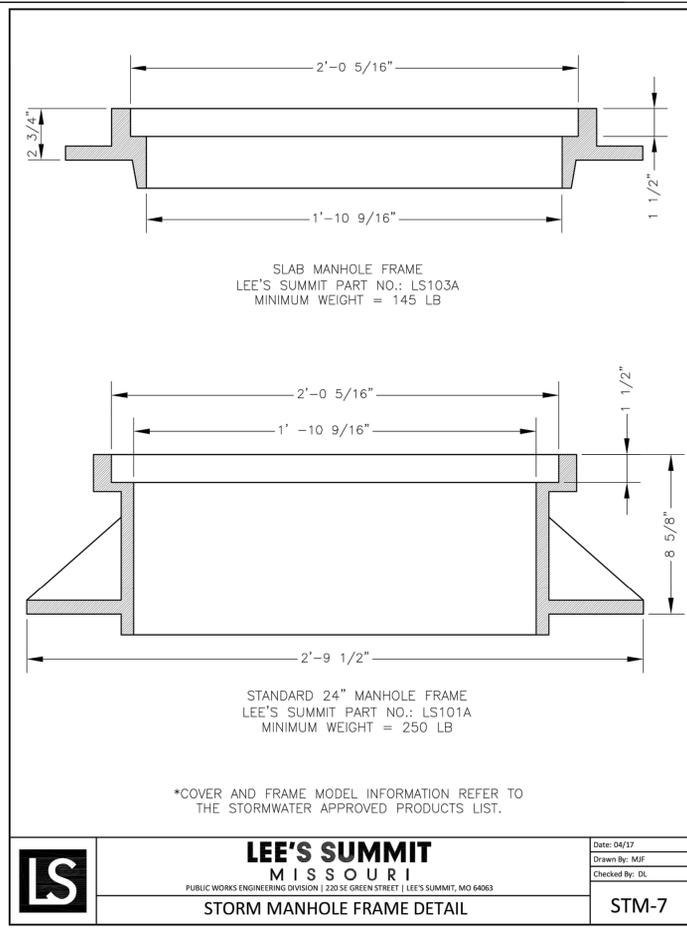
SITE DETAILS

SHEET C7.1



- NOTES:**
- General**
- All storm sewer structures shall be pre-cast or poured in place. If pre-cast structures are used for publicly financed, maintained or administered construction, the tops shall be poured in place and the wall steel shall be left exposed to a height 2" below the finish top elevation, or as directed by the city Engineer.
 - Pre-cast shop drawings are to be approved by the city Engineer Prior to casting.
 - Do not scale these drawings for dimensions or clearances. Any questions regarding dimensions shall be brought to the attention of the city Engineer prior to construction.
 - The first dimension listed in the construction notes is the "L" dimension. The second dimension is the "W" dimension. The concrete thickness and reinforcement shown is for boxes with ("L"×"H") and ("W"×"H") less than or equal to 20. For boxes with either of these calculations greater than 20, a special design is required.
- Concrete**
- Concrete used in this work shall be KCMMB4K, as approved by the Kansas City Metropolitan Materials Board, unless noted otherwise.
 - Concrete construction shall meet the applicable requirements of Standard Specifications for State Road and Bridge Construction, Kansas Department of Transportation, latest edition, unless noted otherwise.
 - Inlet floors shall be shaped with non-reinforced concrete inverts to provide smooth flow.
 - Bevel all exposed edges with 3/4" triangular molding.
- Reinforcing Steel**
- Reinforcing steel shall be new billet, minimum Grade 40 as per ASTM A615, and shall be bent cold.
 - All dimensions relative to reinforcing steel are to centerline of bars. 2" clearance shall be provided throughout unless noted otherwise. Tolerance of +/- 1/8" shall be permitted.
 - All lap splices not shown shall be a minimum of 40 bar diameters in length.
 - All reinforcing steel shall be supported on fabricated steel bar supports @ 3'-0" maximum spacing.
 - All dowels shall be accurately placed and securely tied in place prior to placement of bottom slab concrete. Sticking of dowels into fresh or partially hardened concrete will not be acceptable.
- Construction**
- The bottom slab shall be at least 24 hours old before placing sidewall concrete. All sidewall forms shall remain in place a minimum of 24 hours after sidewalls are poured before removal, and after removal shall be immediately treated with membrane curing compound.
 - Pipe connections to pre-cast structures shall have a minimum of 6" of concrete around the entire pipe within 2' of the structure.
 - Material selection and compaction requirements for backfill around structures shall be as specified in the project manual.

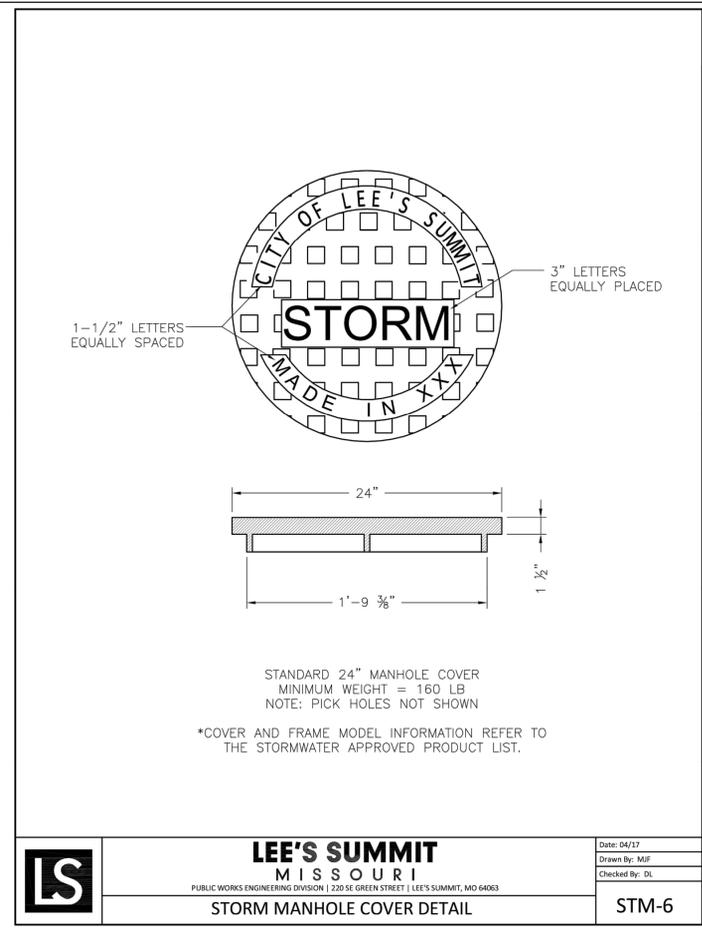
NON-SETBACK CURB INLET



LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64663

STM-7

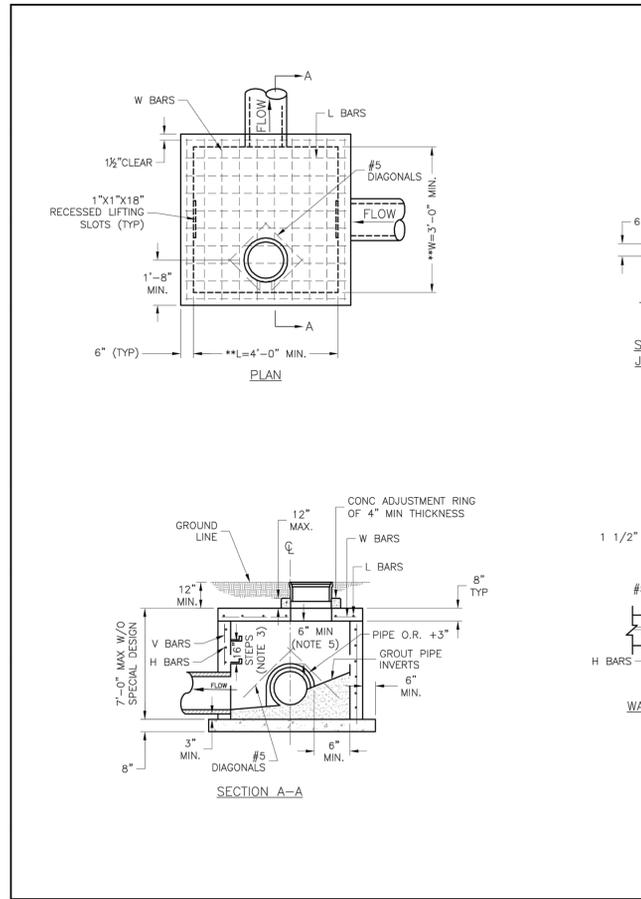
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Drawn By: MJF
Checked By: DL



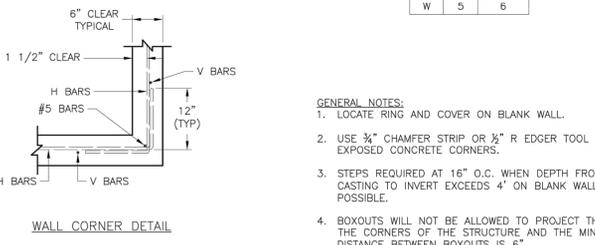
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64663

STM-6

Date: 04/17
Drawn By: MJF
Checked By: DL



SLAB TOP ALTERNATE FOR JUNCTION BOX (SHALLOW)



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
09/15/2021

** INCREASE IN MULTIPLES OF 6" (7'-0") MAX WITHOUT SPECIAL DESIGN. (SEE PROJECT PLANS FOR DETAILS)

REINFORCING

BAR	BAR SIZE	SPACING (IN.)
H	4	12
V	4	12
L	5	6
W	5	6

- GENERAL NOTES:**
- LOCATE RING AND COVER ON BLANK WALL.
 - USE 3/4" CHAMFER STRIP OR 1/2" R EDGER TOOL ON ALL EXPOSED CONCRETE CORNERS.
 - STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF CASTING TO INVERT EXCEEDS 4' ON BLANK WALL IF POSSIBLE.
 - BOXOUTS WILL NOT BE ALLOWED TO PROJECT THROUGH THE CORNERS OF THE STRUCTURE AND THE MINIMUM DISTANCE BETWEEN BOXOUTS IS 6".
 - THE MINIMUM REINFORCING SHALL BE 1 H-BAR OVER A CAST-IN-PLACE PIPE AND 2 H-BARS OVER A PRECAST BOXOUT.
 - PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
 - REINFORCING OF COVERS IN STREETS REQUIRE SPECIAL DESIGN.
 - FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

SCHLAGEL ENGINEERS
PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street • Lenexa, Kansas 66215
(913) 492-5158 • Fax: (913) 492-8400
WWW.SCHLAGELASSOCIATES.COM
Missouri State Certificates of Authority
#E200200890F #LAC001005237 #LS200200895F

PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

LAKELWOOD BUSINESS PARK - LOT 35
FINAL DEVELOPMENT PLANS
4101 NE PORT DRIVE
LEE'S SUMMIT, MISSOURI

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64663

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

JUNCTION BOX DETAIL

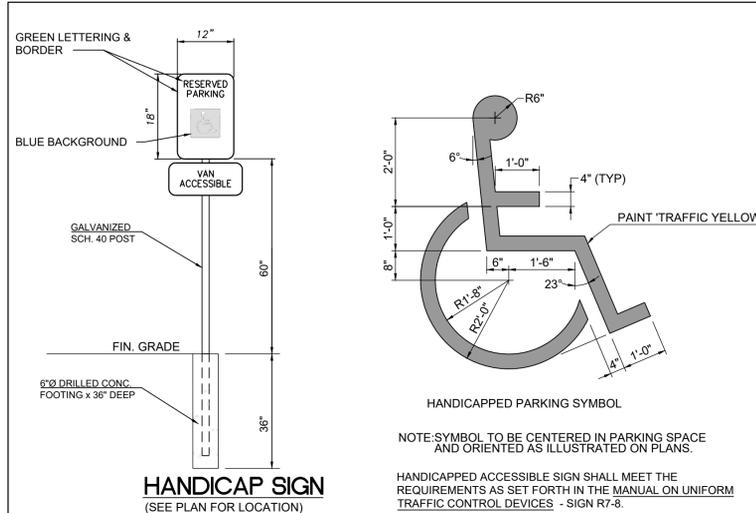
REVISION DATE	DESCRIPTION
08/13/2021	City Comments
08/30/2021	City Comments
09/07/2021	City Comments
08/25/2021	DATE PREPARED
20-281	PROJ. NUMBER

Drawn By: MJF
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Date: 04/17
Proj. #

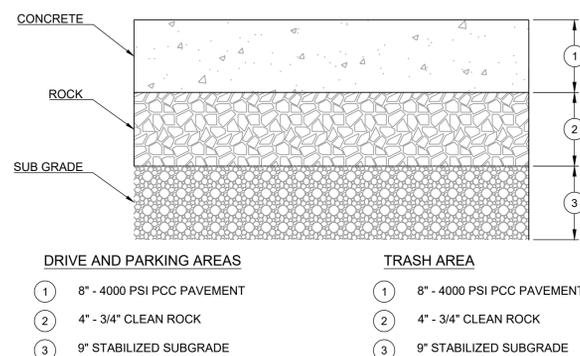
SITE DETAILS

SHEET
C7.2

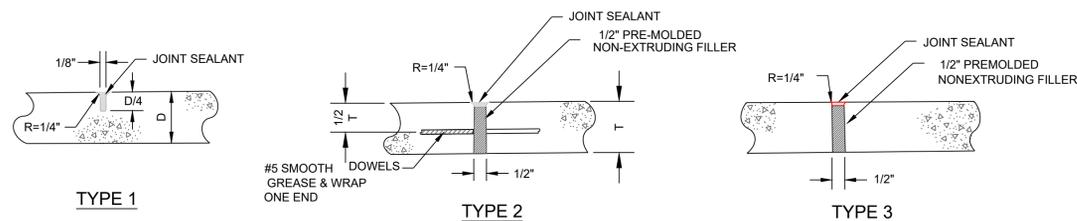
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TYPICAL HANDICAPPED PARKING DETAILS

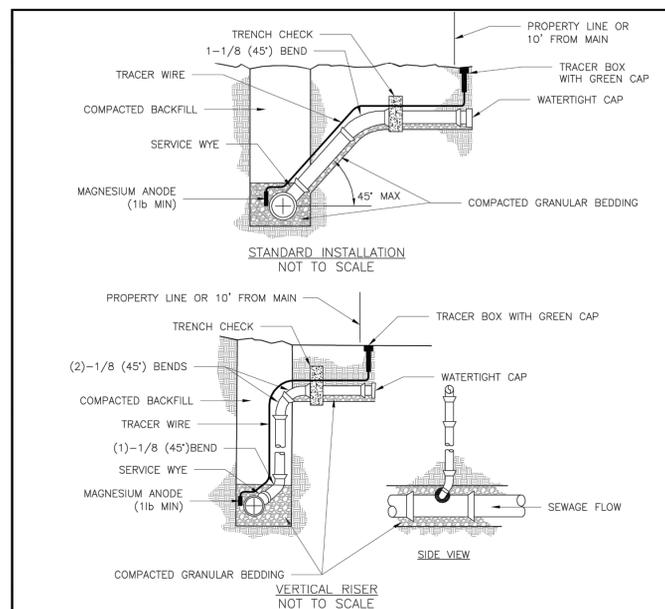


TYPICAL CONCRETE PAVEMENT SECTION



- NOTES:**
- TYPE 1 JOINTS MAY BE CONSTRUCTED WITH A GROOVING TOOL OR WITH A CONCRETE SAW AFTER THE CONCRETE IS SET.
 - TYPE 1 JOINTS SHALL BE SPACE TO EQUAL THE WIDTH OF THE SIDEWALK.
 - TYPE 2 JOINTS SHALL BE PLACED @ ALL P.C.'s, P.T.'s AND TRANSITIONS, AND WHERE NEW WALK TIES INTO EXISTING WALK.
 - SMOOTH BARS SHALL BE 24" LONG.
 - TYPE 3 JOINTS SHALL BE PLACED WHERE NEW CONCRETE ABUTS EXISTING CONCRETE AND IN AREAS WHERE DOWEL BARS ARE NOT REQUIRED BY THE ENGINEER.

TYPICAL CONCRETE PAVEMENT - JOINT DETAILS



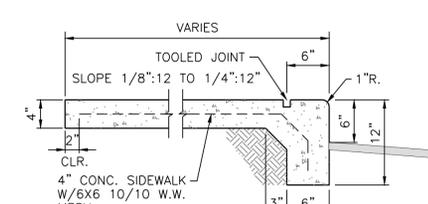
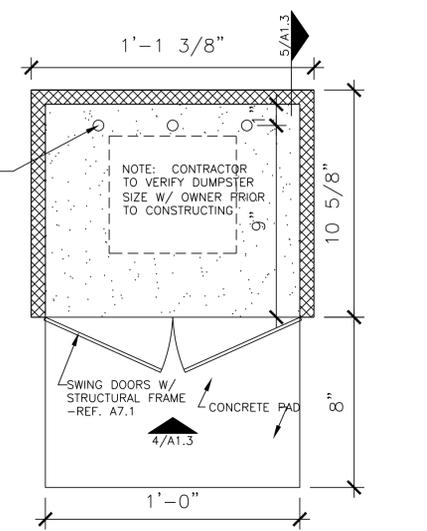
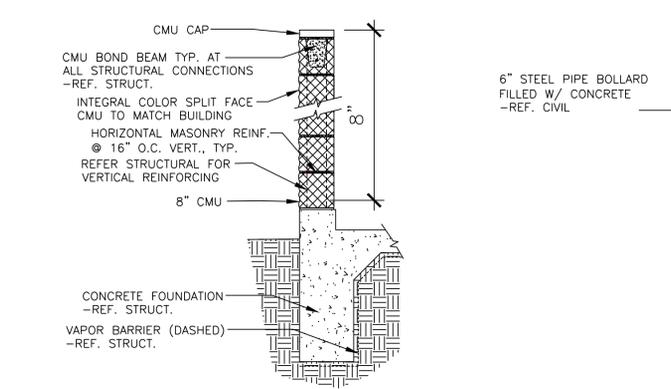
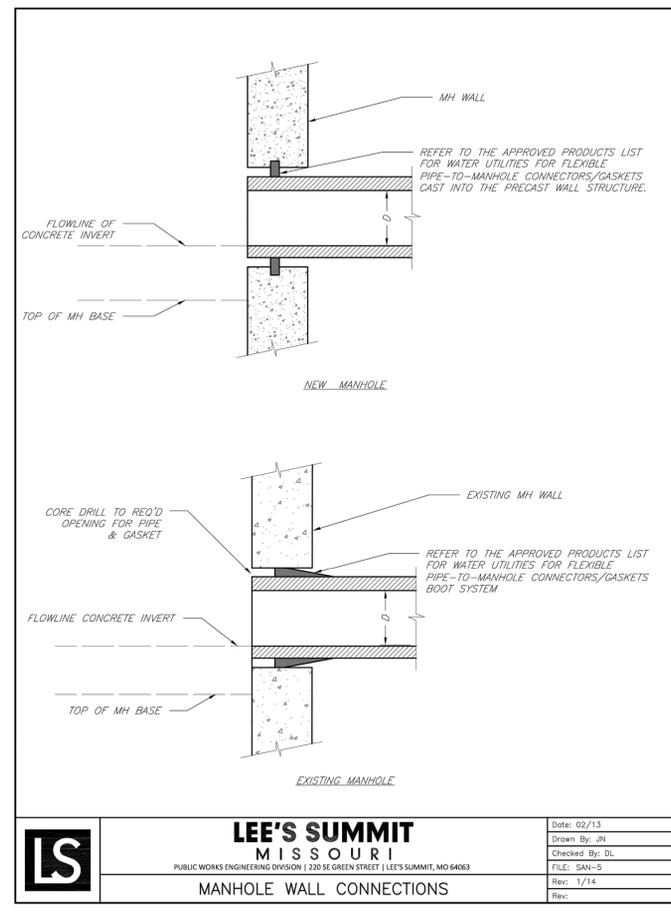
- NOTES:**
- ALL SEWER STUBS SHALL BE CONSTRUCTED TO PROPERTY LINE OR 10' MINIMUM FROM THE MAIN, WHERE SIDEWALKS ARE PRESENT, CONTRACTOR SHALL EXTEND SERVICE LINE UNDER EXISTING SIDEWALK TO TWO FEET BEYOND.
 - ALL NEW CONSTRUCTION OFF SEWER STUBS SHALL BE TEMPORARILY MARKED WITH A MARKING STAKE, 36" ABOVE GROUND AND PAINTED GREEN.
 - IMPERVIOUS TRENCH CHECKS SHALL BE PLACED ON BUILDING SEWER STUBS (AT LEAST 5' AWAY FROM THE SANITARY SEWER MAIN).
 - TRENCH CHECKS ON THE BUILDING SEWER STUBS SHALL EXTEND 6" BELOW THE BOTTOM OF THE PIPE, LENGTH SHALL BE A MINIMUM OF 12". THE HEIGHT OF THE TRENCH CHECK SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE. THE WIDTH OF THE TRENCH CHECK SHALL BE THE WIDTH OF THE TRENCH.
 - SEE SPECIFICATION SECTION 2100 FOR SEWER MAIN BEDDING AND BACKFILL.
 - #12 GAUGE GREEN INSULATED COPPER TRACER WIRE SHALL BE INSTALLED. TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER.
 - FOR SERVICES, TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATE IN A FLUSH MOUNTED TRACER BOX WITH A GREEN CAST IRON LOOKABLE TOP. WIRE SHALL BE TAPED OR TIED TO THE PIPE AT 5' INTERVALS.
 - TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1.0' OF PROPERTY LINE.
 - THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT CONNECTORS. WIRE NUTS SHALL NOT BE USED. A WATER-PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION.

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

BUILDING SEWER STUB AND RISER

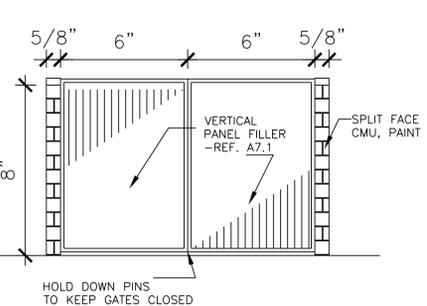
Date: 04/17
Drawn By: MJF
Checked By: DL

SAN-1



INTEGRAL CURB/SIDEWALK DETAIL

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LAKWOOD BUSINESS PARK - LOT 35
FINAL DEVELOPMENT PLANS
4101 NE PORT DRIVE
LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
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08/30/2021	City Comments
09/07/2021	City Comments
09/25/2021	City Comments

DRAWN BY: RPM
CHECKED BY: JTS
DATE PREPARED: 09/25/2021
PROJ. NUMBER: 20-281

SITE DETAILS

SHEET
C7.3

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	AFA	15 EA.	Acer x freemanii 'Armstrong'	Armstrong Maple	3" Cal.	B&B
	QRR	6 EA.	Quercus robur x bicolor(aka x warei) 'Long'	Regal Prince Oak	3" Cal.	B&B
	TAR	5 EA.	Tilia americana 'Redmond'	Redmond Linden	3" Cal.	B&B
	ZSM	13 EA.	Zelkova serrata 'Musashino'	Musashino Columnar Zelkova	3" Cal.	B&B
EVERGREEN TREES						
	JCSP	8 EA.	Juniperus chinensis 'Spartan'	Spartan Juniper	8' Ht.	B&B
	JVC	8 EA.	Juniperus virginiana 'Canaertii'	Canaert Juniper	8' ht.	B&B
	PS	8 EA.	Pinus strobus	White Pine	8' ht.	B&B
ORNAMENTAL TREES						
	AGA	5 EA.	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	3" Cal. & 8' Ht.	B&B
	SRI	5 EA.	Syringa reticulata 'Ivory Silk'	Ivory Silk Lilac	3" Cal. & 8' ht.	B&B
SHRUBS						
	BSW	28 EA.	Buxus sinica var. insularis 'Wintergreen' fka a microphylla var.	Wintergreen Boxwood	5 gal.	Cont.
	CSA	14 EA.	Cornus sericea 'Farrow'	Arctic Fire Red Twig Dogwood	5 gal.	Cont.
	JVG	31 EA.	Juniperus virginiana 'Grey Owl'	Grey Owl Juniper	5 gal.	Cont.
	VCK	8 EA.	Viburnum carlesii 'Korean Spice'	Koreanspice Viburnum	5 gal.	Cont.
GRASSES						
	CAK	11 EA.	Calamagrostis x acutifolia 'Karl Foerster'	Karl Foerster Grass	2 gal.	Cont.

NOTE: MODIFICATION REQUESTED FOR PLANT SIZES

NOTES:

- UTILITY INFORMATION SHOWN IS DESIGNED LOCATION OR LOCATIONS BASED ON UTILITY LOCATES. AS BUILT LOCATIONS MAY VARY. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO COMMENCING LANDSCAPE INSTALLATION. NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONFLICTS OR OBSTRUCTIONS.
- QUANTITIES INDICATED ON THE PLAN ARE FOR CONVENIENCE ONLY. CONTRACTOR SHALL VERIFY ALL PLANT QUANTITIES PRIOR TO PLANTING. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. THE PLAN QUANTITIES AND NUMBER OF SYMBOLS SHALL SUPERSEDE QUANTITIES IN THE SCHEDULE.
- ALL PLANT MATERIAL SHALL COMPLY WITH THE CITY OF LEE'S SUMMIT STANDARDS AND ANSI A60.1 THE AMERICAN STANDARD FOR NURSERY STOCK.
- ALL TREES SHALL MEET THE SIZE REQUIREMENTS OF THE LEE'S SUMMIT ORDINANCE. ALL TREES SHALL BE CALLIPIPERED AND UNDERSIZED TREES SHALL BE REJECTED.
- ALL SHRUBS TO BE UTILIZED FOR SCREENING SHALL BE 24" HEIGHT AT TIME OF PLANTING.
- ALL PLANTING BEDS CONTAINING SHRUBS, GROUND COVER, PERENNIALS, ANNUALS SHALL BE IN A PLANTING BED WITH 3" MIN. DEPTH OF MULCH AND A "V-CUT" EDGE.
- ALL TREES SHALL HAVE A MIN. 3 FT. DIA. AREA THAT HAS 3" MIN. DEPTH OF WOOD MULCH.
- ALL TURF AREAS SHALL BE SOODED UNLESS INDICATED ON THE PLANS.
- ANY DEVIATION FROM THE APPROVED LANDSCAPE PLAN SHALL REQUIRE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT AND THE CITY OF LEE'S SUMMIT. PRIOR TO INSTALLATION.
- THE LANDSCAPE ARCHITECT AND OWNER SHALL APPROVE GRADES AND CONDITION OF SITE PRIOR TO SODDING OPERATIONS.
- INSTALLATION AND MAINTENANCE OF LANDSCAPING SHALL COMPLY WITH THE CITY OF LEE'S SUMMIT STANDARDS.
- ALL PLANT MATERIAL SHALL BE INSTALLED TO ALLOW A MINIMUM CLEARANCE BETWEEN PLANT AND ADJACENT PAVEMENT OF 1 FT. FOR PERENNIALS AND GROUND COVER AND 1.5 FT. FOR SHRUBS. A 2 FT. CLEARANCE (4 FEET FROM BACK OF CURB TO THE CENTER OF SHRUB) FOR CAR OVERHANG IS REQUIRED AT ALL PARKING ISLANDS AND PERIMETERS.
- AFTER COMPLETE INSTALLATION OF ALL PLANT MATERIAL AND SOO THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT THAT THE WORK IS COMPLETE AND READY FOR REVIEW. THE LANDSCAPE ARCHITECT SHALL REVIEW THE LANDSCAPE INSTALLATION TO DETERMINE COMPLIANCE WITH THE APPROVED PLANS. WHEN THE LANDSCAPE INSTALLATION MEETS THE REQUIREMENTS OF THE APPROVED PLAN, THE LANDSCAPE ARCHITECT SHALL PROVIDE A SIGNED AND SEALED LETTER TO THE CITY STATING THAT ALL LANDSCAPE PLANTINGS HAVE BEEN INSTALLED PER THE APPROVED PLAN.
- ALL EXTERIOR GROUND OR BUILDING MOUNTED EQUIPMENT (MECHANICAL, ELECTRICAL AND/OR TELEPHONE CABINETS), TRANSFORMERS, AIR CONDITIONING UNITS, ETC. SHALL BE SCREENED FROM PUBLIC VIEW BY INSTALLING FIVE SEA GREEN JUNIPERS EVENLY SPACED AROUND THE PERIMETER. FINAL LOCATION OF ANY EQUIPMENT SHALL BE DETERMINED AND VERIFIED WITH THE FINAL DESIGN AND PERMITTING OF THE PROJECT.
- ALL ROOFTOP EQUIPMENT SHALL BE SCREENED FROM PUBLIC VIEW WITH AN ARCHITECTURAL TREATMENT COMPATIBLE WITH THE BUILDING AND INTEGRAL TO THE OVERALL APPEARANCE OF THE BUILDING.

LANDSCAPE DATA LOT 1 ONLY

STREET FRONTAGE LANDSCAPE

LAKEWOOD WAY TREES REQUIRED(1 PER 30')(169.12/30)
 LAKEWOOD WAY TREES PROVIDED
 PORT DRIVE TREES REQUIRED(1 PER 30')(294.05/30)
 PORT DRIVE TREES PROVIDED

6 TREES
 6 NEW TREES
 10 TREES
 11 NEW TREES

LAKEWOOD WAY SHRUBS REQUIRED(1 PER 20')(169.12/20)
 LAKEWOOD WAY SHRUBS PROVIDED
 PORT DRIVE SHRUBS REQUIRED(1 PER 20')(294.05/20)
 PORT DRIVE SHRUBS PROVIDED

9 SHRUBS
 9 SHRUBS
 15 SHRUBS
 15 SHRUBS (IN PARKING LOT SCREEN)

SITE LANDSCAPE REQUIRED

TREES REQUIRED (1 PER 5,000 S.F. OF OPEN SPACE)(93,083/5000)
 TREES PROVIDED

19 TREES
 19 TREES (3 IN BUFFER SCREEN)

SHRUBS REQUIRED (2 PER 5,000 S.F. OF LOT AREA)(93,083/5000X2)
 SHRUBS PROVIDED

37 SHRUBS
 37 SHRUBS (25 IN BUFFER, 12 IN FRONT)

PARKING LOT LANDSCAPE

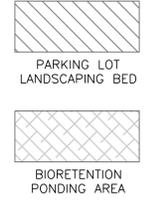
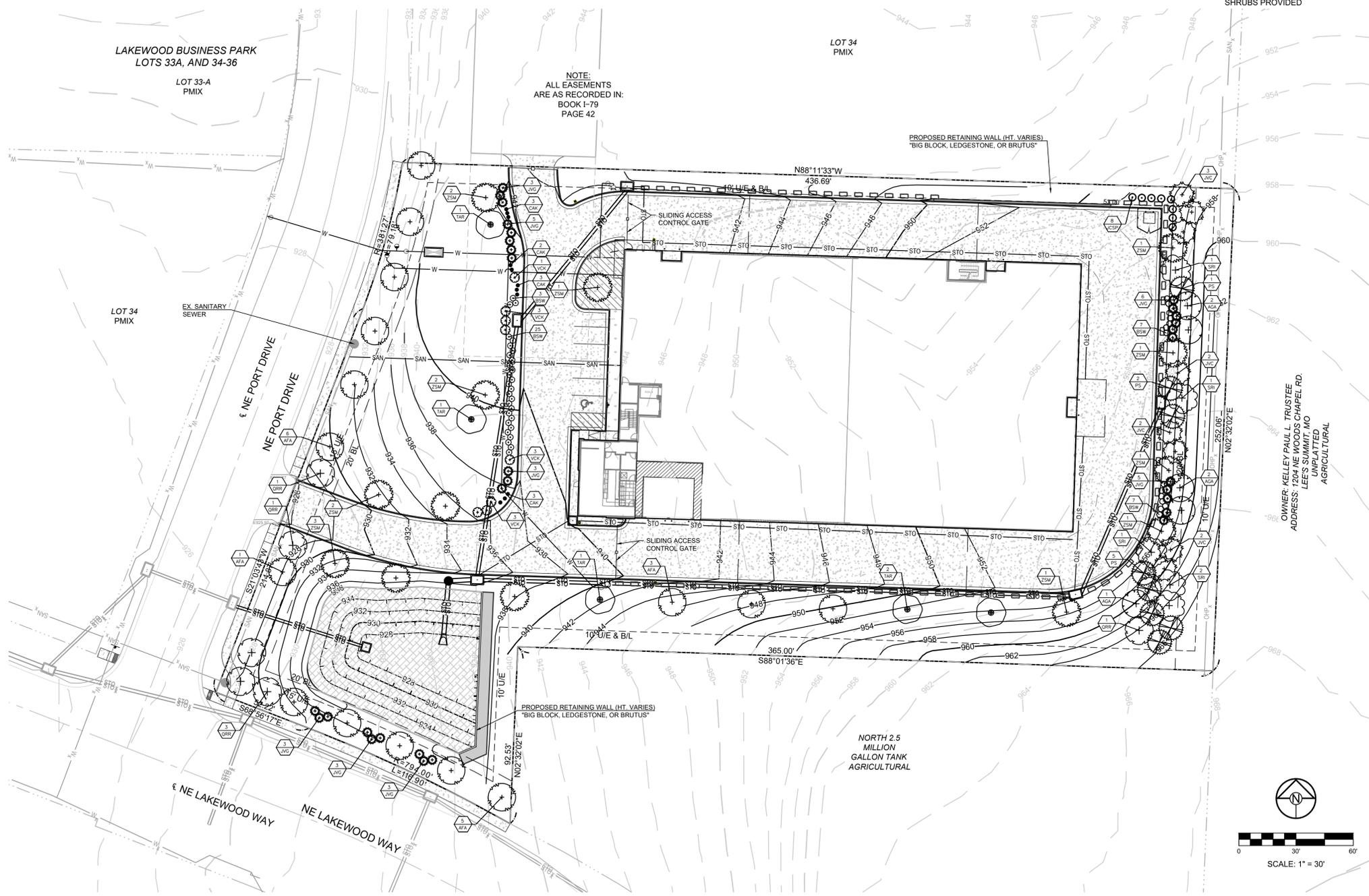
LANDSCAPE AREA REQUIRED(5% OF PARKING AREA)(2741.0 x 0.05)
 LANDSCAPE AREA PROVIDED
 TREES REQUIRED (1 PER ISLAND)
 TREES PROVIDED
 SCREENING (2.5 FT. HT ALONG ENTIRE FRONTAGE ADJ. TO STREET)

138 S.F.
 738.0 S.F.
 1 TREE
 1 TREE
 58 SHRUBS (12 FROM OPEN SPACE,
 15 FROM LAKEWOOD WAY)

MEDIUM IMPACT LANDSCAPE BUFFER- EAST BOUNDARY

TREES REQUIRED (1 PER 1,000 S.F.)(5,041/1,000)
 TREES PROVIDED
 ORNAMENTAL TREES REQUIRED (1 PER 500 S.F.)(5,041/500)
 ORNAMENTAL TREES PROVIDED
 EVERGREEN TREES REQUIRED (1 PER 300 S.F.)(5,041/300)
 EVERGREEN TREES PROVIDED
 SHRUBS REQUIRED (1 PER 200 S.F.)(5,041/200)
 SHRUBS PROVIDED

5 TREES
 5 TREES (3 FROM OPEN SPACE)
 10 TREES
 10 TREES
 17 TREES
 17 TREES
 25 SHRUBS
 25 SHRUBS (25 FROM OPEN SPACE)



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**LAKEWOOD BUSINESS PARK - LOT 35
 FINAL DEVELOPMENT PLANS
 4101 NE PORT DRIVE LEE'S SUMMIT,
 MISSOURI**

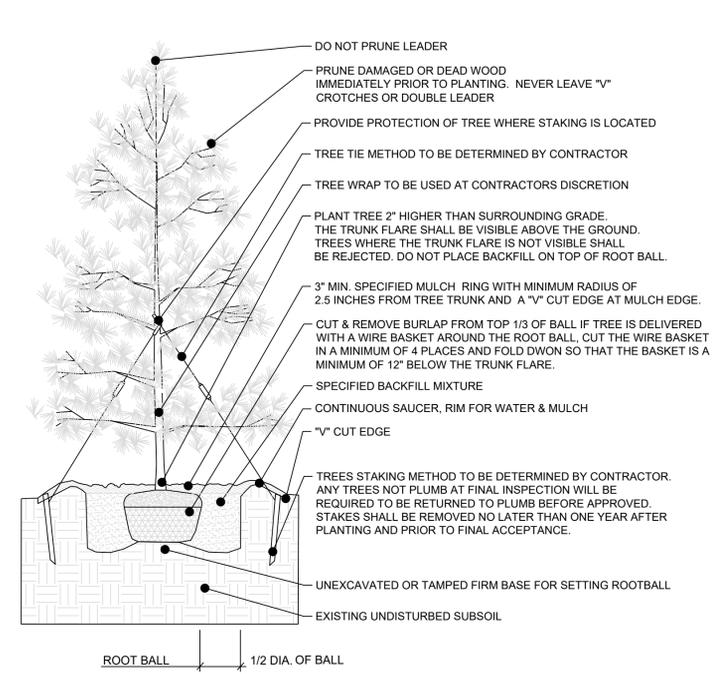
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LANDSCAPE PLAN

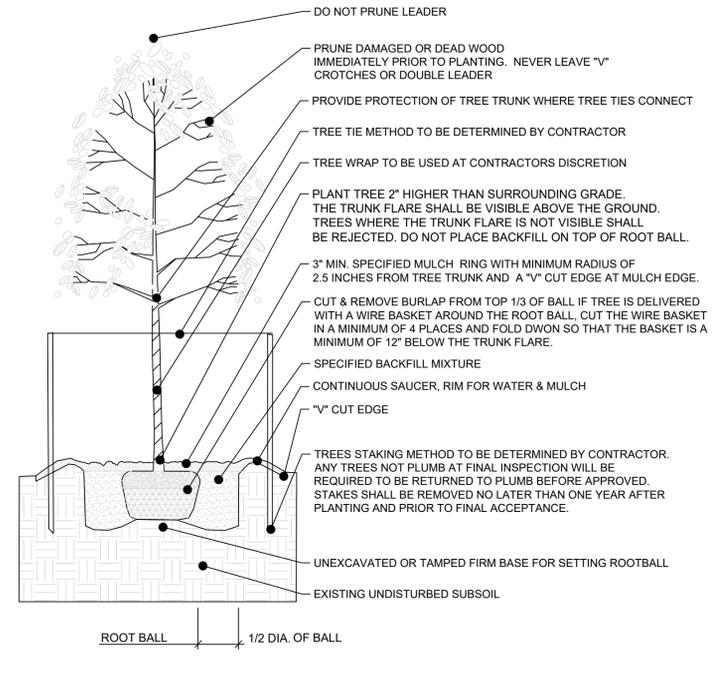
SHEET
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RELEASE FOR CONSTRUCTION
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 LEE'S SUMMIT, MISSOURI
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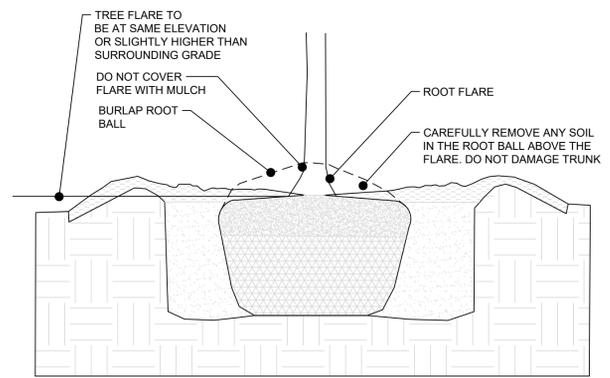
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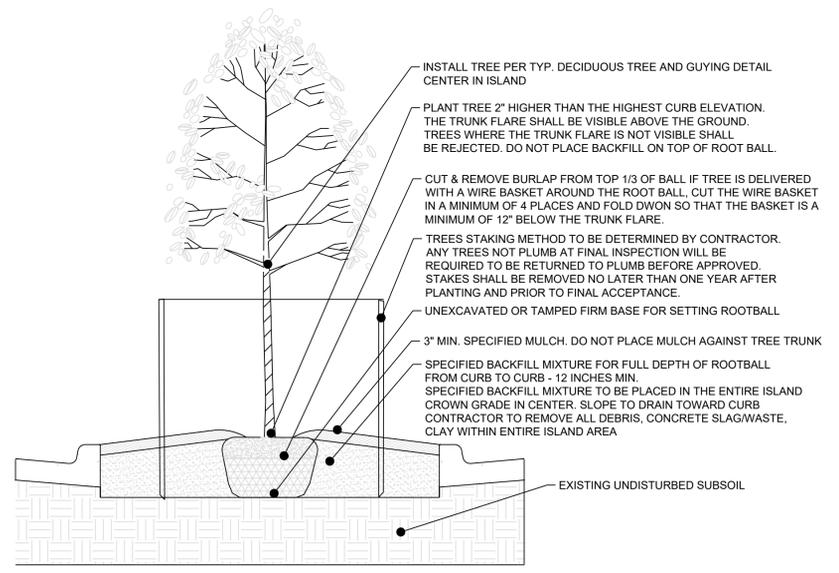
1 TYP. EVERGREEN PLANTING & GUYING
 NO SCALE



2 TYP. DECIDUOUS PLANTING & GUYING
 NO SCALE



3 TYP. TREE PLANTING DEPTH
 NO SCALE



4 TYP. PARKING LOT ISLAND PLANTING
 NO SCALE

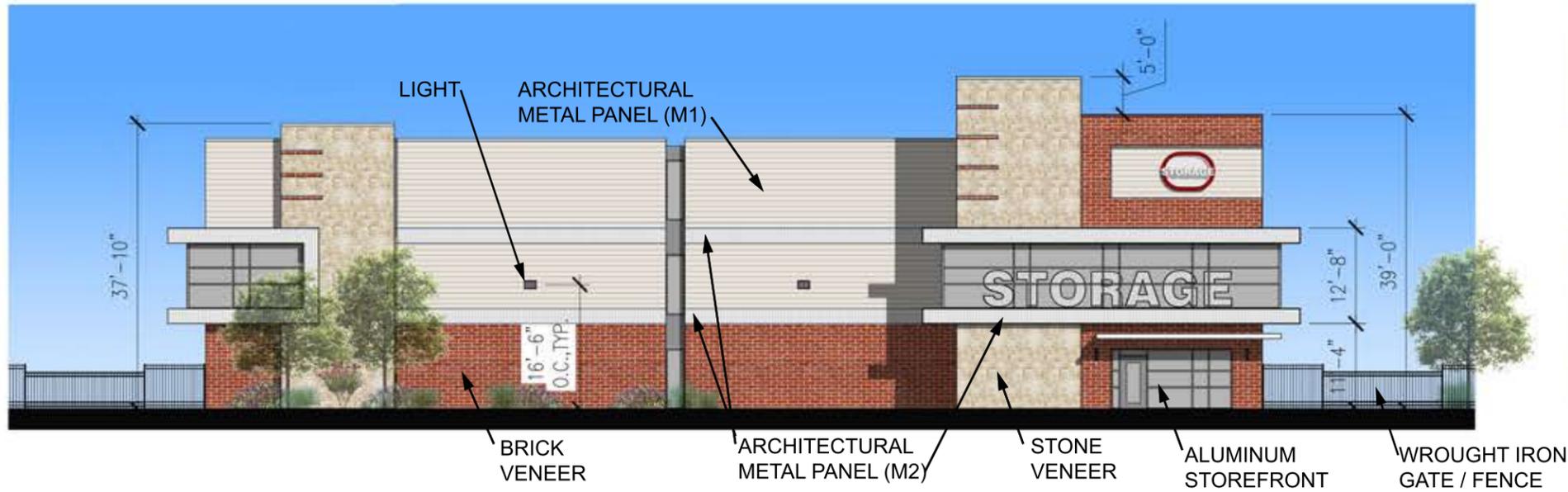
- All trees shall comply with State and Federal regulations. Trees should be obtained from local sources but must meet the quality guidelines herein. Trees transported from out of the region shall meet all State and Federal regulations and be certified to be disease and insect free.
- Provide healthy stock, grown in a nursery and reasonably free of die-back, disease, insects, eggs, bores, and larvae. At the time of planting all plants shall have a root system, stem, and branch form that will not restrict normal growth, stability and health for the expected life of the plant.
- All trees shall be nursery-grown.
- Plants shall be healthy with the color, shape, size and distribution of trunk, stems, branches, buds and leaves normal to the plant type specified. Tree quality above the soil line shall comply with the following:
- Crown: The form and density of the crown shall be typical for a young specimen of the species or cultivar pruned to a central and dominant leader.
- Crown specifications do not apply to plants that have been specifically trained in the nursery as topiary, espalier, multi-stem, clump, or unique selections such as contorted or weeping cultivars.
- Leaves: The size, color, and appearance of leaves shall be typical for the time of year and stage of growth of the species or cultivar. Trees shall not show signs of prolonged moisture stress or over watering as indicated by wilted, shriveled, or dead leaves.
- Branches: Shoot growth (length and diameter) throughout the crown should be appropriate for the age and size of the species or cultivar. Trees shall not have dead, diseased, broken, distorted, or otherwise injured branches.
 - Main branches shall be distributed along the central leader not clustered together. Potential main branches shall be evenly spaced and have appropriate space between them. They shall form a balanced crown appropriate for the cultivar/species.
 - Branch diameter shall be no larger than two-thirds (one-half is preferred) the diameter of the central leader measured 1 inch above the branch union.
 - The attachment of the largest branches (scaffold branches) shall be free of included bark.
 - Branches shall be distributed radially around and vertically along the trunk, forming a generally symmetrical crown typical for the species.
 - The attachment of scaffold branches shall be free of included bark.
- Branch structure: The better quality, large-maturing shade trees (lower extreme left) have all branches less than about two-thirds the trunk diameter. Poor quality shade trees (lower left center) have larger upright branches. Trees such as crape myrtle and other small-maturing trees can have several trunks. Trees with extensive defects in branches such as cracks and included bark (lower right) represent lesser quality than trees free of these potential problems. Included bark can be seen between the two arrows below. Branches with bark inclusions are weakly attached to the tree and can split easily.
- Evergreen branch structure: The branch pattern should dense, symmetrical and the branch stems should be evenly spaced completely around the trunk. The branches shall extend to within 12 inches of the ground and be along the full length of the trunk. Trees which are not symmetrical or that have an "open area" will be rejected. For structural integrity on evergreen trees, all side branches should be less than half the diameter of the adjacent trunk (less than one-third is preferred).
- Trunk: The tree trunk shall be relatively straight, vertical, and free of wounds that penetrate to the wood (properly made pruning cuts, closed or not, are acceptable and are not considered wounds), sunburned areas, conks (fungal fruiting bodies), wood cracks, sap leakage, signs of boring insects, galls, cankers, girdling ties, or lesions (mechanical injury).
- Evergreen tree trunk: Evergreen trees shall have a single trunk that is straight, vertical, and free of wounds that penetrate to the wood (properly made pruning cuts, closed or not, are acceptable and are not considered wounds), sunburned areas, conks (fungal fruiting bodies), wood cracks, sap leakage, signs of boring insects, galls, cankers, girdling ties, or lesions (mechanical injury). Codominant trunks (trunks of similar size) will not be accepted.
- Temporary branches: Unless otherwise specified, can be present along the lower trunk below the lowest main (scaffold) branch, particularly for trees less than 1 inch in caliper. These branches should be no greater than 3/8-inch diameter. Clear trunk should be no more than 40% of the total height of the tree.
- Central Leader: Trees shall have a single(one), relatively straight central leader and tapered trunk, free of co-dominant stems and vigorous, upright branches that compete with the central leader. Preferably, the central leader should not have been headed. However, in cases where the original leader has been removed, an upright branch at least 1/2 (one-half) the diameter of the original leader just below the pruning point shall be present. All trees are assumed to have one central leader trees unless a different form is specified in the plant list or drawings. If the central leader is broken or damaged during delivery or installation the tree shall be rejected and removed from the site. If the central leader dies within the warranty period the tree shall be replaced at the end of the warranty period.
- All graft unions, where applicable, shall be completely closed without visible sign of graft rejection. All grafts shall be visible above the soil line.
- Trunk caliper and taper shall be sufficient so that the lower five feet of the trunk remains vertical without a stake. Auxiliary stake may be used to maintain a straight leader in the upper half of the tree.
- Plant roots shall be normal to the plant type specified. Root observations shall take place without impacting tree health. Root quality at or below the soil line shall comply with the project Root Acceptance details and the following:
- The roots shall be reasonably free of scrapes, broken or split wood.
- The root system shall be reasonably free of injury from biotic (e.g., insects and pathogens) and abiotic (e.g., herbicide toxicity and salt injury) agents. Wounds resulting from root pruning used to produce a high quality root system are not considered injuries.
- A minimum of three structural roots reasonably distributed around the trunk (not clustered on one side) shall be found in each plant. Root distribution shall be uniform throughout the root ball, and growth shall be appropriate for the species.
- Plants with structural roots on only one side of the trunk (J roots) shall be rejected.
- The root collar shall be within the upper 1 inch of the substrate/soil. Two structural roots shall reach the side of the root ball near the top surface of the root ball. The grower may request a modification to this requirement for species with roots that rapidly descend, provided that the grower removes all stem girdling roots above the structural roots across the top of the root ball. Any excess soil shall be removed from the root ball so that the root flare is visible as indicated in the "Planting Depth Detail". The root collar shall be visible above the mulch layer.
- The root system shall be free of stem girdling roots over the root collar or kinked roots from nursery production practices.
- Plant Grower Certification: The final plant grower shall be responsible to have determined that the plants have been root pruned at each step in the plant production process to remove stem girdling roots and kinked roots, or that the previous production system used practices that produce a root system throughout the root ball that meets these specifications. Regardless of the work of previous growers, the plant's root system shall be modified at the final production stage, if needed, to produce the required plant root quality. The final grower shall certify in writing that all plants are reasonably free of stem girdling and kinked roots as defined in this specification, and that the tree has been grown and harvested to produce a plant that meets these specifications.
- At time of observations and delivery, the root ball shall be moist throughout. Roots shall not show signs of excess soil moisture conditions as indicated by stunted, discolored, distorted, or dead roots.

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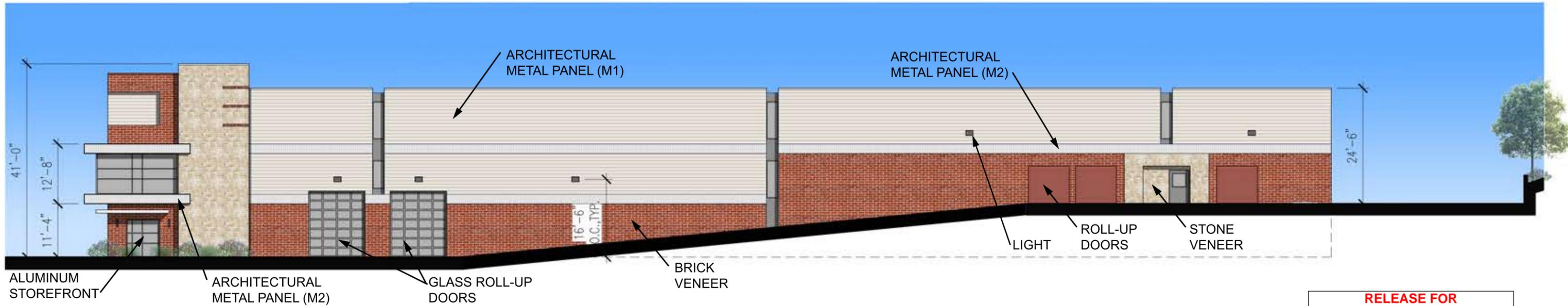
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DRAWN BY:	RPM
CHECKED BY:	JTS
DATE PREPARED:	08/25/2021
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LANDSCAPE
 DETAILS



WEST ELEVATION



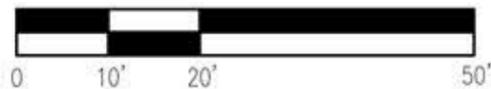
SOUTH ELEVATION

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AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

09/15/2021

EXTERIOR ELEVATIONS

SCALE: 1" = 20'-0" 02.19.2021



LAKESIDE STORAGE

LEE SUMMIT, MISSOURI

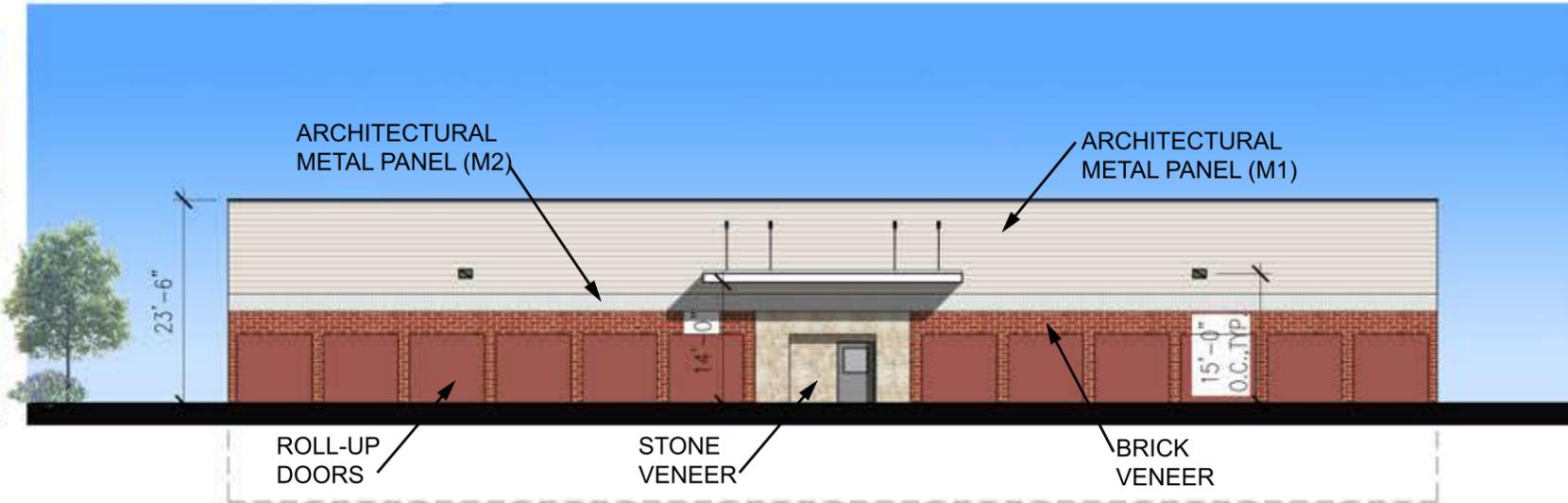
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JEFFREY S. DALLENBACH, AIA
MO REGISTRATION NO. A-2020036988

CONCEPTUAL SITE PLAN HAS BEEN
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INFORMATION.

DALLENBACH·COLE
ARCHITECTURE

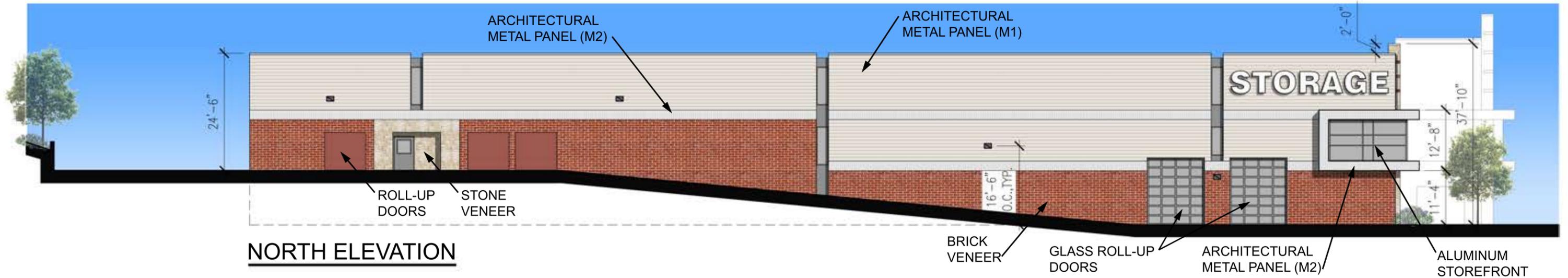
12035 COLWICK
SAN ANTONIO, TX 78216
WWW.DALLENBACHCOLE.COM
P 210.493.2234



EAST ELEVATION



NORTH ELEVATION



NORTH ELEVATION

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EXTERIOR ELEVATIONS

SCALE: 1" = 20'-0" 02.19.2021



LAKWOOD STORAGE

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STORAGE

STORAGE

RELEASE FOR
CONSTRUCTION
AS SHOWN OR BY ANY EQUIVALENT
WITH OWNER'S APPROVAL
TOP OF SUMMIT, MISSOURI
06/13/2024



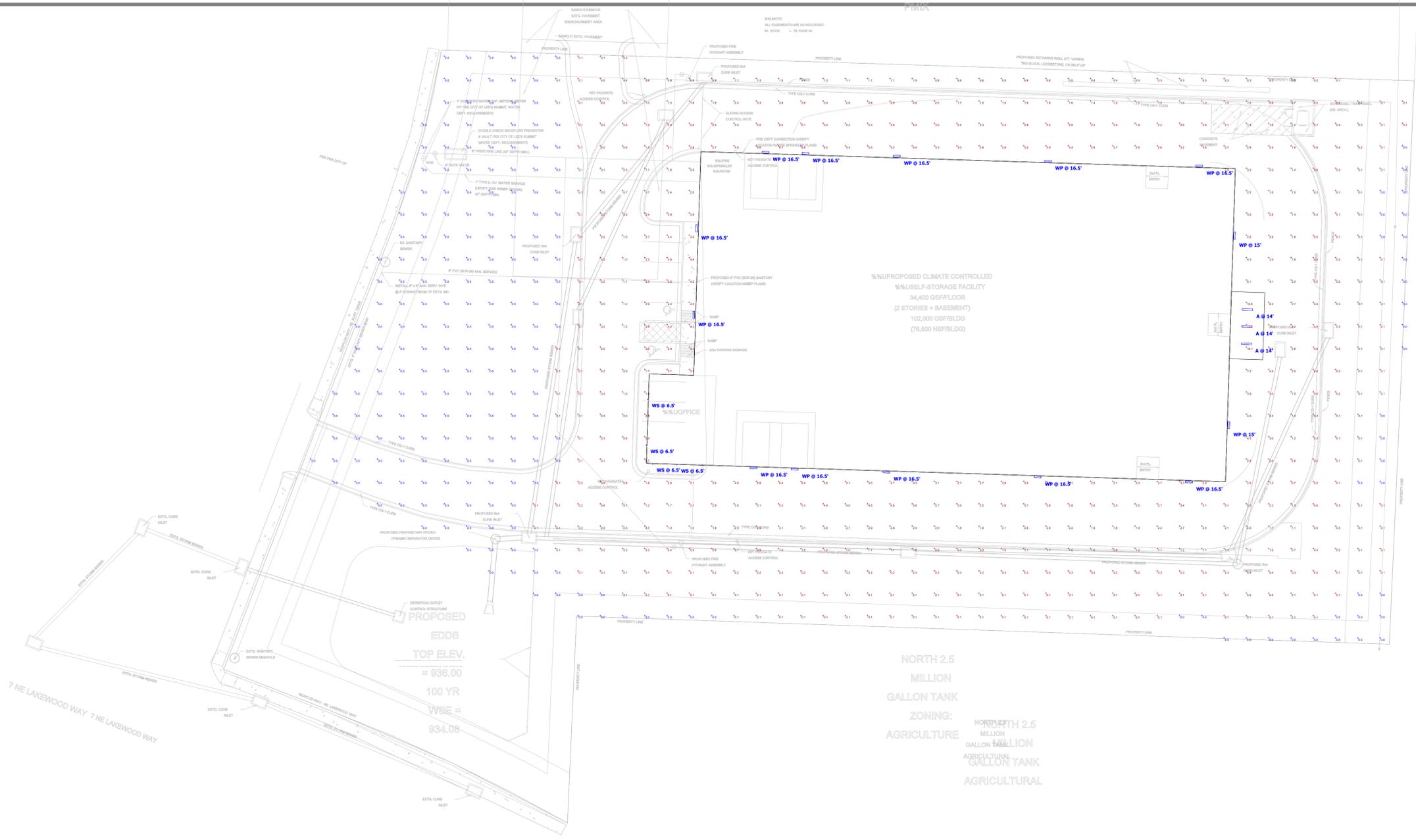
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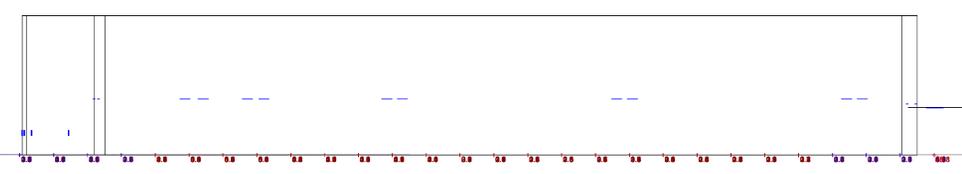


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09/15/2021



Plan View
Scale - 1" = 25ft



South View
Scale - 1" = 25ft

SCHEDULE - NOT FOR USE IN CONSTRUCTION DOCUMENTS

Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	LLF	Wattage	Distribution
WP	WP	14	Lithonia Lighting	DSXW1 LED 20C 1000 40K T2M MVOLT	DSXW1 LED WITH (2) 10 LED LIGHT ENGINES, TYPE T2M OPTIC, 4000K, @ 1000mA.	LED	1	DSXW1_LED_2 0C_1000_40K_T2M_MVOLT.ies	7373	0.95	73.2	TYPE III, MEDIUM, BUG RATING: B2 - 00 - G2
WS	WS	4	VISA LIGHTING	OW5524	VANITY HORIZONTAL MOUNT 19"	LED 3500K -H	1	OW5524-L3SK-H.ies	981	0.95	10.4	
A	A	3	Lithonia Lighting	VAP 6000LM FST MD 40K 80CRI	VAP LED with BLT Gen 2 Boards		1	VAP_6000LM_F ST_MD_40K_80 CRI.ies	5442	0.95	49.31	DIRECT, SC-0=1.18, SC-90=1.19

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	1.1 fc	23.1 fc	0.0 fc	N/A	N/A

Note
 1. ALL EXTERIOR CALCULATIONS ARE ASSUMED ON EVEN OR FLAT TERRAIN.
 2. ALL EXTERIOR CALCULATIONS ARE TAKEN AT 0'-0" AFG.
 3. VALUE NEXT TO LUMINAIRE LABEL DRAWING REPRESENTS OVERALL MOUNTING HEIGHT.

RELEASE FOR CONSTRUCTION
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 09/15/2021

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Designer
 Matt Stohlmann
 Date
 03/15/2021
 Scale
 Not to Scale
 Drawing No.
 REV 2
 Summary

LAKWOOD STORAGE FACILITY SITE

OUTDOOR PHOTOMETRIC REPORT

CATALOG: VAP 6000LM FST MD 40K 80CRI



Test #: ISF36812P29
 Test Lab: SCALED PHOTOMETRY
 Catalog: VAP 6000LM FST MD 40K 80CRI
 Description: VAP LED with BLT Gen 2 Boards
 Series: VAP LED
 Lamp Output: Total luminaire Lumens: 5442.5, absolute photometry *
 Input Wattage: 49.31
 Luminous Opening: Rectangle w/Luminous Sides (L: 1.39M, W: 0.2M, H: 0.01M)
 Max Cd: 1,942.6 at Horizontal: 270°, Vertical: 2.5°
 Roadway Class: Type VS

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1,458.8	26.8%
0-40	2,347.3	43.1%
0-60	4,014.7	73.8%
60-90	1,120.1	20.6%
70-100	597.6	11%
90-120	165.4	3%
0-90	5,134.8	94.3%
90-180	307.7	5.7%
0-180	5,442.5	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	182.7	3.4%	90-100	65.2	1.2%
10-20	515.3	9.5%	100-110	50.7	0.9%
20-30	760.8	14.0%	110-120	49.5	0.9%
30-40	888.6	16.3%	120-130	45.1	0.8%
40-50	889.6	16.3%	130-140	38.3	0.7%
50-60	777.7	14.3%	140-150	29.2	0.5%
60-70	587.7	10.8%	150-160	18.1	0.3%
70-80	365.0	6.7%	160-170	9.0	0.2%
80-90	167.4	3.1%	170-180	2.6	0%

*TEST BASED ON ABSOLUTE PHOTOMETRY WHERE LAMP LUMENS=LUMENS TOTAL.
 *CUTOFF CLASSIFICATION AND EFFICIENCY CANNOT BE PROPERLY CALCULATED FOR ABSOLUTE PHOTOMETRY.

VISUAL PHOTOMETRIC TOOL 1.2.46 COPYRIGHT 2020, ACUITY BRANDS LIGHTING.
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 ISF36812P29
 VISUAL PHOTOMETRIC TOOL

PUBLISH
 PAGE 1 OF 3

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 LEE'S SUMMIT, MISSOURI

 09/15/2021

OUTDOOR PHOTOMETRIC REPORT
 CATALOG: VAP 6000LM FST MD 40K 80CRI



Roadway Summary

Distribution:	Type VS
Max Cd, 90 Deg Vert:	172.9
Max Cd, 80 to <90 Deg:	340.1
	<u>Lumens % Lamp</u>
Downward Street Side:	2,548.6 46.8%
Downward House Side:	2,586.7 47.5%
Downward Total:	5,135.3 94.4%
Upward Street Side:	153.4 2.8%
Upward House Side:	154.2 2.8%
Upward Total:	307.7 5.7%
Total Lumens:	5,443.0 100%

LCS Table

BUG Rating	B2 - U3 - G1	
	Lumens	Lumens %
Forward Light		
Low(0-30):	727.1	13.4%
Medium(30-60):	1,268.8	23.3%
High(60-80):	470.5	8.6%
Very High(80-90):	82.1	1.5%
Back Light		
Low(0-30):	731.9	13.4%
Medium(30-60):	1,287.4	23.7%
High(60-80):	482.2	8.9%
Very High(80-90):	85.2	1.6%
Uplight		
Low(90-100):	65.2	1.2%
High(100-180):	242.5	4.5%
Trapped Light:	0.000	0%

**RELEASE FOR
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 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI**

09/15/2021

OUTDOOR PHOTOMETRIC REPORT
CATALOG: VAP 6000LM FST MD 40K 80CRI



Candela Table - Type C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	1937	1937	1937	1937	1937	1937	1937	1937	1937	1937	1937	1937	1937	1937	1937	1937	1937
2.5	1930	1933	1931	1933	1938	1935	1937	1938	1931	1938	1937	1935	1943	1937	1935	1935	1930
5	1921	1922	1920	1918	1924	1921	1927	1930	1927	1934	1930	1930	1935	1930	1930	1928	1921
7.5	1908	1907	1899	1897	1901	1904	1911	1915	1914	1924	1918	1917	1922	1918	1915	1915	1908
10	1886	1884	1873	1869	1875	1875	1886	1897	1895	1905	1901	1898	1902	1897	1897	1895	1886
12.5	1860	1856	1843	1835	1840	1845	1856	1871	1872	1881	1875	1873	1878	1871	1871	1872	1860
15	1827	1820	1807	1796	1800	1806	1823	1839	1843	1852	1848	1842	1848	1842	1840	1840	1827
17.5	1791	1783	1764	1754	1760	1761	1781	1803	1810	1816	1811	1810	1813	1807	1806	1803	1791
20	1747	1737	1719	1705	1712	1718	1739	1758	1768	1774	1771	1770	1777	1767	1765	1762	1747
22.5	1703	1685	1667	1657	1659	1667	1689	1711	1721	1731	1731	1728	1735	1728	1719	1715	1703
25	1650	1634	1611	1601	1610	1613	1634	1660	1673	1679	1682	1685	1693	1679	1673	1663	1650
27.5	1592	1575	1559	1549	1554	1562	1582	1604	1617	1624	1630	1634	1646	1634	1621	1613	1592
30	1536	1515	1497	1489	1494	1502	1522	1542	1561	1572	1579	1582	1594	1581	1564	1552	1536
32.5	1470	1456	1435	1428	1440	1441	1458	1483	1497	1510	1520	1532	1545	1526	1509	1494	1470
35	1402	1388	1375	1365	1375	1383	1399	1415	1431	1444	1460	1474	1486	1467	1447	1427	1402
37.5	1337	1317	1307	1306	1316	1316	1330	1345	1360	1382	1402	1418	1425	1411	1388	1358	1337
40	1265	1251	1238	1238	1248	1249	1262	1280	1294	1311	1336	1353	1368	1346	1320	1293	1265
42.5	1196	1179	1175	1173	1177	1186	1196	1206	1219	1245	1274	1287	1298	1284	1252	1221	1196
45	1121	1105	1102	1104	1114	1115	1126	1138	1150	1173	1203	1225	1231	1216	1189	1149	1121
47.5	1046	1039	1035	1033	1042	1051	1053	1064	1075	1100	1130	1154	1164	1146	1117	1082	1046
50	977	966	961	961	968	977	987	989	999	1033	1062	1082	1091	1079	1045	1009	977
52.5	902	898	888	895	902	905	915	921	930	958	990	1016	1025	1006	979	934	902
55	827	824	823	823	830	839	843	847	853	882	915	942	951	934	906	866	827
57.5	758	751	749	757	767	767	777	775	778	814	846	869	881	866	833	793	758
60	685	680	677	687	698	696	705	709	709	741	771	798	810	794	767	726	685
62.5	611	615	615	620	631	634	634	636	636	673	700	734	748	725	693	654	611
65	546	545	546	561	568	569	569	563	562	601	636	667	680	664	623	582	546
67.5	474	476	484	499	513	506	500	499	496	529	565	607	615	597	558	517	474
70	405	414	421	441	455	453	435	429	425	465	499	543	559	535	491	448	405
72.5	342	346	360	389	405	396	378	363	355	395	440	481	499	478	432	380	342
75	275	281	303	336	352	343	318	303	293	327	378	428	440	421	372	320	275
77.5	213	226	255	287	303	297	269	239	228	269	321	372	391	366	314	258	213
80	160	169	208	245	264	251	219	182	167	209	272	320	340	318	261	199	160
82.5	107	124	164	205	223	210	174	134	117	156	223	277	293	271	216	147	107
85	62	84	130	167	186	173	138	91	69	114	179	232	254	232	173	107	62
87.5	30	53	95	134	153	140	104	59	35	78	143	192	212	190	137	71	30
90	19	33	69	105	121	108	73	36	19	49	107	157	173	153	102	45	19
92.5	17	26	53	82	97	85	56	26	17	35	79	125	143	124	76	32	17
95	19	24	43	69	81	71	45	24	19	30	63	101	117	101	61	27	19
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100	23	27	42	56	63	56	40	26	23	32	52	75	86	75	50	29	23
102.5	23	29	42	56	62	56	40	27	24	33	53	73	81	72	50	30	23
105	24	30	43	58	63	56	42	29	24	35	53	72	79	72	52	32	24
107.5	24	32	43	58	63	56	42	30	26	36	53	72	79	72	52	35	24
110	26	33	45	58	63	58	43	32	26	37	55	72	79	72	53	36	26
112.5	26	35	45	58	62	58	45	35	26	39	55	72	79	71	53	37	26
115	26	35	46	58	62	56	45	36	26	40	56	72	78	71	55	39	26
117.5	26	36	48	58	61	56	46	37	27	40	56	71	76	71	55	40	26
120	27	36	48	56	61	56	48	37	27	42	56	69	75	69	55	42	27
122.5	27	36	48	56	61	56	49	39	27	42	55	69	73	68	56	43	27
125	27	36	48	56	61	56	49	39	29	42	55	68	72	68	56	43	27
127.5	29	36	48	56	59	58	50	39	29	42	53	66	71	68	56	43	29
130	29	35	48	56	59	58	52	39	30	42	53	65	71	66	56	45	29
132.5	29	35	48	55	59	58	53	39	30	40	52	65	69	66	58	45	29
135	29	33	46	55	59	58	53	39	30	39	52	63	69	65	59	45	29
137.5	29	32	45	55	59	58	55	39	29	37	50	61	68	65	61	43	29
140	29	32	43	55	59	59	55	37	29	36	49	59	66	65	61	40	29
142.5	29	30	40	53	61	61	52	36	29	35	48	59	65	65	61	40	29



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145	29	29	37	52	61	61	49	36	29	33	43	58	66	66	59	39	29
147.5	29	29	35	49	62	59	46	35	29	32	40	56	68	66	56	37	29
150	29	29	32	43	59	55	43	33	29	32	37	52	68	65	52	37	29
152.5	29	29	30	39	53	50	42	33	29	32	36	48	65	62	49	36	29
155	29	29	29	33	48	46	39	33	29	30	33	42	59	58	46	36	29
157.5	30	29	27	30	42	43	37	33	30	30	32	36	53	52	43	35	30
160	30	29	27	27	39	39	37	32	30	30	30	32	46	46	40	35	30
162.5	30	29	27	24	35	36	36	32	30	30	29	29	42	42	39	33	30
165	30	29	26	23	32	35	33	32	30	30	29	26	37	39	36	33	30
167.5	30	29	26	22	29	32	32	30	30	30	29	23	35	36	35	32	30
170	30	29	26	20	26	30	30	30	30	30	27	22	30	33	32	30	30
172.5	30	29	26	20	22	27	29	30	30	30	27	20	26	30	30	30	30
175	30	30	27	20	14	24	27	30	30	30	27	20	19	27	29	30	30
177.5	30	30	27	22	10	23	27	30	30	30	27	20	12	24	27	30	30
180	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

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LEE'S SUMMIT, MISSOURI**

09/15/2021

OW5524 – SHINE™



Type: Project:

VisaLighting.com/products/Shine

Fill in shaded boxes using information listed below

Order Code: **OW5524**
MODEL

- **MVOLT**
VOLTAGE

A SOURCE

B FINISH

C OPTION(S)



Shine is an ideal outdoor fixture with versatile features including horizontal or vertical mounting, LED sources, 4 size options, and end accents that can be painted in one of 16 standard colors to accent any facade.

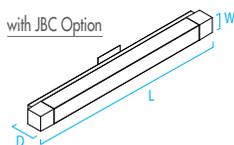
DIMENSIONS

Depth is measured from wall to front of fixture

L = Length W = Width D = Depth

L	19"	(483 mm)
W	3"	(76 mm)
D	4"	(102 mm)
D	4.25"	(108 mm)

(with JBC option)



A SOURCE (Select one) and VOLTAGE

MVOLT fixture accepts 120 through 277 input voltage
Dimmable 0-10V to 1%
80CRI, within 3-step MacAdam

Sources	CCT	Delivered Lumens	Power (Watts)	Voltage
• L30K	3000K	1000	11	MVOLT
L35K	3500K			
• L40K	4000K			

B FINISHES (Select one)

See page 2 for color chart

Powder Coat Painted Finishes (Standard)

AG7038 Agate Grey	CVBL Cove Blue	GW9002 Grey White	PB1035 Pearl Beige
BMAT Bronze Matte	CW9001 Cream White	HTHR Heather	RUST Rust
BRNZ Bronze	GLIM Glimmer	JB9005 Jet Black	SUNG Sungold
BSIL Blade Silver	GSIL Graphite Silver	OBRZ Old Bronze	TW9016 Traffic White

C OPTIONS (Multiple Selections Allowed)

⚠ Option availability may be interdependent with Voltage, Source or Other Options

- JBC** Junction box cover (4-1/2" square) for use with an existing 4" octagonal junction box. Painted to match finish. Adds 1/4" to Depth (D dimension)
- XPS** Express 10 day shipping. Items marked with a bullet (•) are not available with XPS

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ADA



XPS



LED



ETL Listed

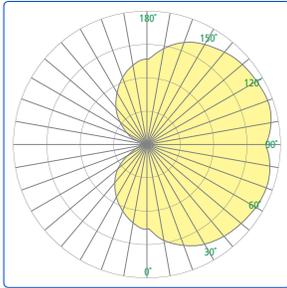


5 Year Warranty

OW5524 – SHINE



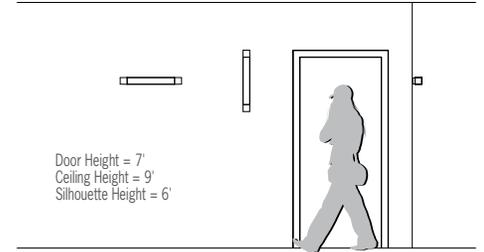
Photometrics



Technical Information

- Integral high power factor electronic power supply
- Modular design for replacement of LED source and power supply
- IP55 rated
- Vertical or horizontal mounting
- Surface mount to 2x4 junction box. Optional junction box cover (JBC option) available for 4" junction box
- Tamper resistant fasteners
- Cast and extruded aluminum construction
- Frosted 1/8" high impact grade acrylic
- No VOC powder coat paint finish
- ETL listed for wet location

Relative Scale Drawing



Specify color code when ordering. For accurate color matching, individual paint and finish samples are [available upon request](#). For additional information see VisaLighting.com/materials-finishes

Painted Finishes (Standard)



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LEE'S SUMMIT, MISSOURI



D-Series Size 1 LED Wall Luminaire

Catalog
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Location: Wall Packs on
Exterior Elevations



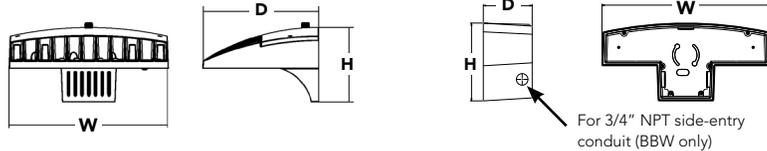
d#series

Specifications Luminaire

Width:	13-3/4" (34.9 cm)	Weight:	12 lbs (5.4 kg)
Depth:	10" (25.4 cm)		
Height:	6-3/8" (16.2 cm)		

Back Box (BBW, ELCW)

Width:	13-3/4" (34.9 cm)	BBW Weight:	5 lbs (2.3 kg)
Depth:	4" (10.2 cm)	ELCW Weight:	10 lbs (4.5 kg)
Height:	6-3/8" (16.2 cm)		



Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DBBTD

Series	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting	Control Options
DSXW1 LED	10C 10 LEDs (one engine) 20C 20 LEDs (two engines) ¹	350 350 mA 530 530 mA 700 700 mA 1000 1000 mA (1 A) ¹	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted	T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium	MVOLT ² 120 ³ 208 ³ 240 ³ 277 ³ 347 ^{3,4} 480 ^{3,4}	Shipped included (blank) Surface mounting bracket BBW Surface-mounted back box (for conduit entry) ⁵	Shipped installed PE Photoelectric cell, button type ⁶ DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) PIR 180° motion/ambient light sensor, <15' mtg ht ^{1,7} PIRH 180° motion/ambient light sensor, 15-30' mtg ht ^{1,7} PIR1FC3V Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ^{1,7} PIRH1FC3V Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ^{1,7} ELCW Emergency battery backup (includes external component enclosure), CA Title 20 Noncompliant ^{8,9}

Other Options	Finish (required)
Shipped installed SF Single fuse (120, 277 or 347V) ^{3,10} DF Double fuse (208, 240 or 480V) ^{3,10} HS House-side shield ¹¹ SPD Separate surge protection ¹²	Shipped separately¹¹ BSW Bird-deterrent spikes VG Vandal guard DDL Diffused drop lens DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DBBTD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone

Accessories

Ordered and shipped separately.

DSXWHS U	House-side shield (one per light engine)
DSXWBSW U	Bird-deterrent spikes
DSXWVG U	Vandal guard accessory

NOTES

- 20C 1000 is not available with PIR, PIRH, PIR1FC3V or PIRH1FC3V.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH.
- Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.
- Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
- Reference Motion Sensor table on page 3.
- Cold weather (-20C) rated. Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with fusing. Not available with 347 or 480 voltage options. Emergency components located in back box housing. Emergency mode IES files located on product page at www.lithonia.com
- Not available with SPD.
- Not available with ELCW.
- Also available as a separate accessory; see Accessories information.
- Not available with ELCW.

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DSXW1-LED
Rev. 10/20/20

09/15/2021



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Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K (3000 K, 70CRI)					40K (4000 K, 70CRI)					50K (5000 K, 70CRI)					AMBPC (Amber Phosphor Converted)				
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
10C (10 LEDs)	350mA	13W	T2S	1,415	0	0	1	109	1,520	0	0	1	117	1,530	0	0	1	118	894	0	0	1	69
			T2M	1,349	0	0	1	104	1,448	0	0	1	111	1,458	0	0	1	112	852	0	0	1	66
			T3S	1,399	0	0	1	108	1,503	0	0	1	116	1,512	0	0	1	116	884	0	0	1	68
			T3M	1,385	0	0	1	107	1,488	0	0	1	114	1,497	0	0	1	115	876	0	0	1	67
			T4M	1,357	0	0	1	104	1,458	0	0	1	112	1,467	0	0	1	113	858	0	0	1	66
	TFTM	1,411	0	0	1	109	1,515	0	0	1	117	1,525	0	0	1	117	892	0	0	1	69		
	530 mA	19W	T2S	2,053	1	0	1	108	2,205	1	0	1	116	2,220	1	0	1	117	1,264	0	0	1	67
			T2M	1,957	1	0	1	103	2,102	1	0	1	111	2,115	1	0	1	111	1,205	0	0	1	63
			T3S	2,031	1	0	1	107	2,181	1	0	1	115	2,194	1	0	1	115	1,250	0	0	1	66
			T3M	2,010	1	0	1	106	2,159	1	0	1	114	2,172	1	0	1	114	1,237	0	0	1	65
			T4M	1,970	1	0	1	104	2,115	1	0	1	111	2,129	1	0	1	112	1,212	0	0	1	64
	TFTM	2,047	0	0	1	108	2,198	1	0	1	116	2,212	1	0	1	116	1,260	0	0	1	66		
	700 mA	26W	T2S	2,623	1	0	1	101	2,816	1	0	1	108	2,834	1	0	1	109	1,544	0	0	1	59
			T2M	2,499	1	0	1	96	2,684	1	0	1	103	2,701	1	0	1	104	1,472	0	0	1	57
			T3S	2,593	1	0	1	100	2,785	1	0	1	107	2,802	1	0	1	108	1,527	0	0	1	59
			T3M	2,567	1	0	1	99	2,757	1	0	1	106	2,774	1	0	1	107	1,512	0	0	1	58
			T4M	2,515	1	0	1	97	2,701	1	0	1	104	2,718	1	0	1	105	1,481	0	0	1	57
	TFTM	2,614	1	0	1	101	2,808	1	0	1	108	2,825	1	0	1	109	1,539	0	0	1	59		
	1000 mA	39W	T2S	3,685	1	0	1	94	3,957	1	0	1	101	3,982	1	0	1	102	2,235	1	0	1	57
			T2M	3,512	1	0	1	90	3,771	1	0	1	97	3,794	1	0	1	97	2,130	1	0	1	55
			T3S	3,644	1	0	1	93	3,913	1	0	1	100	3,938	1	0	1	101	2,210	1	0	1	57
			T3M	3,607	1	0	1	92	3,873	1	0	1	99	3,898	1	0	1	100	2,187	1	0	1	56
			T4M	3,534	1	0	2	91	3,796	1	0	2	97	3,819	1	0	2	98	2,143	1	0	1	55
	TFTM	3,673	1	0	1	94	3,945	1	0	1	101	3,969	1	0	1	102	2,228	1	0	1	57		
20C (20 LEDs)	350mA	23W	T2S	2,820	1	0	1	123	3,028	1	0	1	132	3,047	1	0	1	132	1,777	1	0	1	77
			T2M	2,688	1	0	1	117	2,886	1	0	1	125	2,904	1	0	1	126	1,693	1	0	1	74
			T3S	2,789	1	0	1	121	2,994	1	0	1	130	3,014	1	0	1	131	1,757	0	0	1	76
			T3M	2,760	1	0	1	120	2,965	1	0	1	129	2,983	1	0	1	130	1,739	1	0	1	76
			T4M	2,704	1	0	1	118	2,905	1	0	1	126	2,922	1	0	1	127	1,704	1	0	1	74
	TFTM	2,811	1	0	1	122	3,019	1	0	1	131	3,038	1	0	1	132	1,771	0	0	1	77		
	530 mA	35W	T2S	4,079	1	0	1	117	4,380	1	0	1	125	4,407	1	0	1	126	2,504	1	0	1	72
			T2M	3,887	1	0	1	111	4,174	1	0	1	119	4,201	1	0	1	120	2,387	1	0	1	68
			T3S	4,033	1	0	1	115	4,331	1	0	1	124	4,359	1	0	1	125	2,477	1	0	1	71
			T3M	3,993	1	0	2	114	4,288	1	0	2	123	4,315	1	0	2	123	2,451	1	0	1	70
			T4M	3,912	1	0	2	112	4,201	1	0	2	120	4,227	1	0	2	121	2,402	1	0	1	69
	TFTM	4,066	1	0	2	116	4,366	1	0	2	125	4,394	1	0	2	126	2,496	1	0	1	71		
	700 mA	46W	T2S	5,188	1	0	1	113	5,572	1	0	1	121	5,607	1	0	1	122	3,065	1	0	1	67
			T2M	4,945	1	0	2	108	5,309	1	0	2	115	5,343	1	0	2	116	2,921	1	0	1	64
			T3S	5,131	1	0	2	112	5,510	1	0	2	120	5,544	1	0	2	121	3,031	1	0	1	66
			T3M	5,078	1	0	2	110	5,454	1	0	2	119	5,487	1	0	2	119	3,000	1	0	1	65
			T4M	4,975	1	0	2	108	5,343	1	0	2	116	5,376	1	0	2	117	2,939	1	0	1	64
	TFTM	5,172	1	0	2	112	5,554	1	0	2	121	5,589	1	0	2	122	3,055	1	0	1	66		
	1000 mA	73W	T2S	7,204	1	0	2	99	7,736	2	0	2	106	7,784	2	0	2	107	4,429	1	0	1	61
			T2M	6,865	1	0	2	94	7,373	2	0	2	101	7,419	2	0	2	102	4,221	1	0	1	58
			T3S	7,125	1	0	2	98	7,651	1	0	2	105	7,698	1	0	2	105	4,380	1	0	1	60
			T3M	7,052	1	0	2	97	7,573	2	0	2	104	7,620	2	0	2	104	4,335	1	0	2	59
			T4M	6,909	1	0	2	95	7,420	1	0	2	102	7,466	1	0	2	102	4,248	1	0	2	58
	TFTM	7,182	1	0	2	98	7,712	1	0	2	106	7,761	1	0	2	106	4,415	1	0	2	60		

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Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the DSXW1 LED 20C 1000 platform in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.95	0.93	0.88

Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A)					
			120V	208V	240V	277V	347V	480V
10C	350	14 W	0.13	0.07	0.06	0.06	-	-
	530	20 W	0.19	0.11	0.09	0.08	-	-
	700	27 W	0.25	0.14	0.13	0.11	-	-
	1000	40 W	0.37	0.21	0.19	0.16	-	-
20C	350	24 W	0.23	0.13	0.12	0.10	-	-
	530	36 W	0.33	0.19	0.17	0.14	-	-
	700	47 W	0.44	0.25	0.22	0.19	0.15	0.11
	1000	74 W	0.69	0.40	0.35	0.30	0.23	0.17

Motion Sensor Default Settings

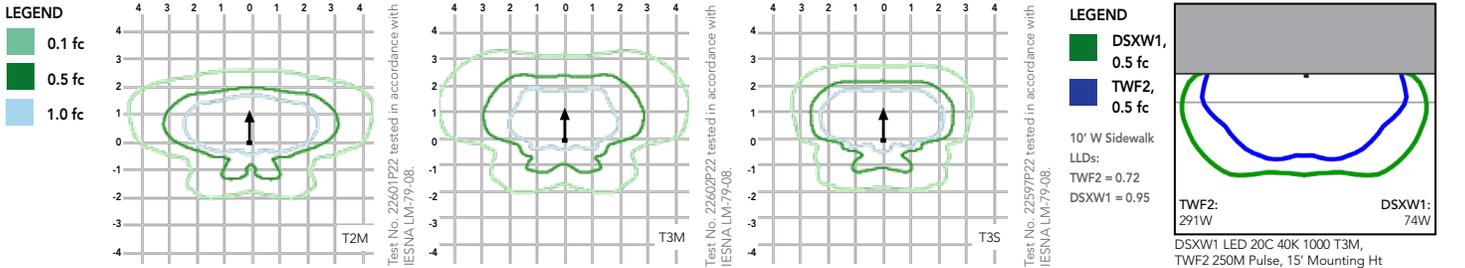
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
*PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*for use with site wide Dusk to Dawn control

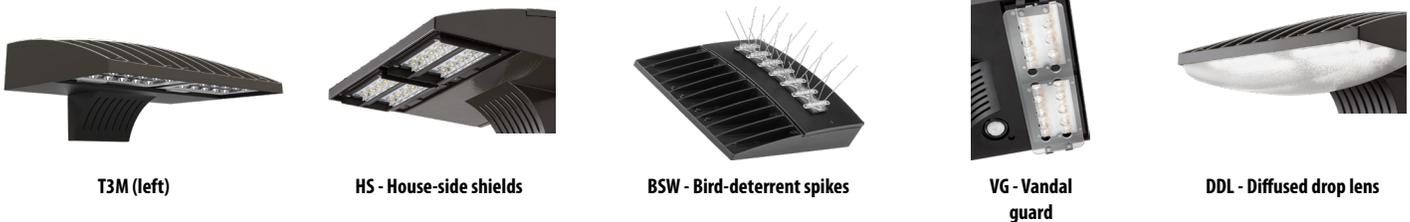
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Wall Size 1 homepage](#).

Isfootcandle plots for the DSXW1 LED 20C 1000 40K. Distances are in units of mounting height (15').



Options and Accessories



FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings, long life and easy-to-install design of the D-Series Wall Size 1 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

CONSTRUCTION

Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65).

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building mounted applications. Light engines are available in 3000 K (70 min. CRI), 4000 K (70 min. CRI) or 5000 K (70 min. CRI) configurations.

ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L88/100,000 hrs at 25°C). Class 1 electronic drivers have a power factor >90%, THD <20%, and a minimum 2.5KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION

Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

LISTINGS

CSA certified to U.S. and Canadian standards. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY

Five-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions. Specifications subject to change without notice.



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