

LEGEND:

- A/E

-

ACCESS EASEMENT
- BC

-

BACK OF CURB
- B/B

-

BACK TO BACK
- BM

-

BENCHMARK
- BL or B.L.

-

BUILDING LINE
- CO

-

CLEANOUT
- TJB

-

TELEPHONE JUNCTION BOX
- C&G

-

CURB AND GUTTER
- D/E

-

DRAINAGE EASEMENT
- E/E

-

ELECTRICAL EASEMENT
- EL

-

ELEVATION
- FL

-

FLOW LINE
- G/E

-

GAS LINE EASEMENT
- HDPE

-

HIGH-DENSITY POLYETHYLENE
- L/E

-

LANDSCAPE EASEMENT
- MSFE

-

MINIMUM SERVICEABLE FLOOR ELEVATION
- PVC

-

POLYVINYL CHLORIDE
- P/L

-

PROPERTY LINE
- PUB/E

-

PUBLIC EASEMENT
- RCP

-

REINFORCED CONCRETE PIPE
- ROW or R/W

-

RIGHT-OF-WAY
- S/E

-

SANITARY SEWER EASEMENT
- SL

-

SERVICE LINE
- S/W

-

SIDEWALK
- TE

-

TOP ELEVATION
- U/E

-

UTILITY EASEMENT
- WSE

-

WATER SURFACE ELEVATION
- W/E

-

WATERLINE EASEMENT

- ASPHALT PAVEMENT - EXISTING
- ASPHALT PAVEMENT - PROPOSED
- CONCRETE PAVEMENT - EXISTING
- ASPHALT PAVEMENT - EXISTING
- CONCRETE SIDEWALK - EXISTING
- CONCRETE SIDEWALK - PROPOSED
- CURB & GUTTER
- CURB & GUTTER - EXISTING
- TREELINE
- EXISTING LOT AND R/W LINES
- EXISTING PLAT LINES
- P/L

PROPERTY LINES
- ROW

RIGHT-OF-WAY
- SANITARY SEWER MAIN
- SANITARY SEWER MAIN - EXIST.
- STO

STORM SEWER
- STORM SEWER - EXISTING
- CATV_x

CABLE TV - EXISTING
- FDC_x

FIBER OPTIC CABLE - EXISTING
- T_x

TELEPHONE LINE - EXIST.
- E_x

ELECTRIC LINE - EXISTING
- OHP_x

OVERHEAD POWER LINE - EXIST.
- UGE_x

UNDERGROUND ELECTRIC - EX.
- G_x

GAS LINE - EXISTING
- W_x

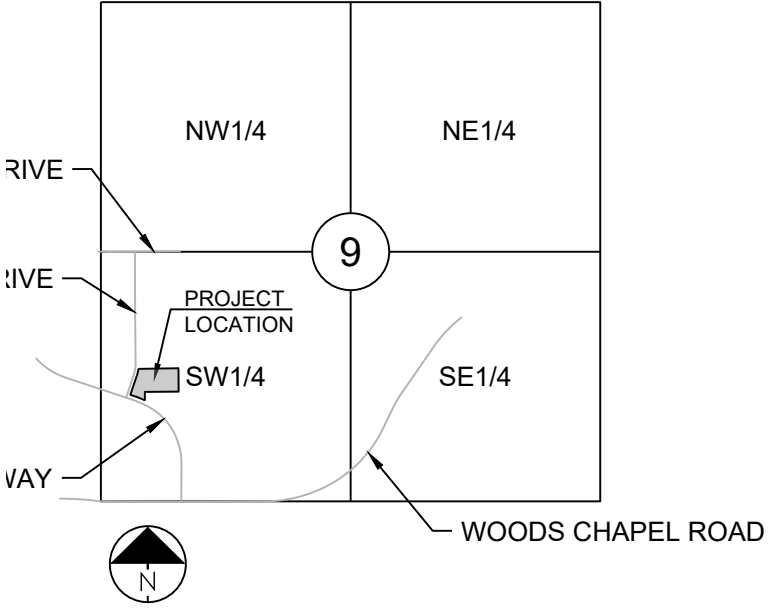
WATERLINE - EXISTING
- LIGHT - EXISTING
- EXISTING MANHOLE
- CLEANOUT
- EXISTING SANITARY MANHOLE
- PROPOSED SANITARY MANHOLE
- AI

EXISTING AREA INLET
- CI

EXISTING CURB INLET
- GI

EXISTING GRATE INLET
- JB

EXISTING JUNCTION BOX
- EXISTING STORM MANHOLE



SECTION 9-48-31

LOCATION MAP
SCALE 1" = 2000'

UTILITY CONTACTS:

MISSOURI DEPARTMENT OF
TRANSPORTATION (MODOT)

Steve Holloway
600 NE Colbern Road
Lee's Summit, MO 64086
(816) 607-2186

MISSOURI GAS ENERGY (MGE)

Brent Jones
3025 SE Clover Drive
Lee's Summit, MO 64082
(816) 399-9633
brent.jones@spireenergy.com

EVERGY (formerly KCP&L)

Gary Jones
Gary.Jones@evergy.com

CITY OF LEES SUMMIT PUBLIC WORKS

Michael Park
220 SE Green Street
Lee's Summit, MO 64063
(816) 969-1800

AT&T

Mark Manion or Marty Loper
500 E. 8th Street, Room 370
Kansas City, MO 64106
(816) 275-2341 or (816) 275-1550

COMCAST CABLE

Barbara Brown
3400 W. Duncan Road
Blue Springs, MO 64015
(816) 795-2255

PUBLIC WATER SUPPLY DISTRICT

Mark Schaulfer
220 SE Green Street
Lee's Summit, MO 64063
(816) 969-1900

FINAL DEVELOPMENT PLANS FOR LAKEWOOD BUSINESS PARK - LOT 35 IN THE CITY OF LEE'S SUMMIT JACKSON COUNTY, MISSOURI

GENERAL NOTES:

- ALL CONSTRUCTION TO FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
- ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI.
- LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS.
- NO GEOLOGICAL INVESTIGATION HAS BEEN PERFORMED ON THE SITE.
- THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS AND APPARENT FIELD LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT OF WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. THE CONTRACTOR MAY ALSO UTILIZE THE FOLLOWING TOLL FREE PHONE NUMBER PROVIDED BY "MISSOURI ONE CALL SYSTEM, INC.": 1-800-DIG-RITE. THIS PHONE NUMBER IS APPLICABLE ANYWHERE WITHIN THE STATE OF MISSOURI. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
- PRIOR TO ORDERING PRECAST STRUCTURES, SHOP DRAWING SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL.
- THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE.
- CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
- ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR, OR AS DIRECTED BY THE OWNER.
- ALL EXCAVATIONS SHALL BE UNCLASSIFIED. NO SEPARATE PAYMENT WILL BE MADE FOR ROCK EXCAVATION.
- THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASED OF CONSTRUCTION, AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS.
- ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.
- SUBGRADE SOIL FOR ALL CONCRETE STRUCTURES, REGARDLESS OF THE TYPE OR LOCATION, SHALL BE FIRM, DENSE AND THOROUGHLY COMPACTED AND CONSOLIDATED; SHALL BE FREE FROM MUCK AND MUD; AND SHALL BE SUFFICIENTLY STABLE TO REMAIN FIRM AND INTACT UNDER THE FEET OF THE WORKMEN OR MACHINERY ENGAGED IN SUBGRADE SURFACING, LAYING REINFORCING STEEL, AND DEPOSITING CONCRETE THEREON. IN ALL CASES WHERE SUBSOIL IS MUCKY OR WORKS INTO MUD OR MUCK DURING SUCH OPERATIONS, A SEAL COURSE OF EITHER CONCRETE OR ROCK SHALL BE PLACED BELOW SUBGRADE TO PROVIDE A FIRM BASE FOR WORKING AND FOR PLACING THE FLOOR SLAB.
- THE CONTRACTOR SHALL CONTACT PUBLIC WORKS INSPECTIONS AT: 816-969-1800 TO OBTAIN A PUBLIC WORKS CONSTRUCTION PERMIT. A MINIMUM 48 HOUR NOTICE SHALL BE GIVEN PRIOR TO PERMIT ISSUANCE.
- THE CONTRACTOR SHALL CONTACT THE CITY'S EROSION CONTROL SPECIALIST AT: 816-969-1800 PRIOR TO ANY LAND DISTURBANCE.
- THE CONTRACTOR SHALL CONTACT THE RIGHT OF WAY INSPECTOR AT 816-969-1800 PRIOR TO ANY LAND DISTURBANCE ACTIVITIES WITHIN THE RIGHT OF WAY. THESE ACTIVITIES MAY REQUIRE A PERMIT.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC HANDLING MEASURES NECESSARY TO ENSURE THAT THE GENERAL PUBLIC IS PROTECTED AT ALL TIMES. TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD-LATEST EDITION).
- ALL SANITARY SEWER LATERALS SHALL HAVE A TRENCH CHECK, CONSISTING OF FLOWABLE BACKFILL, INSTALLED DURING CONSTRUCTION. TRENCH CHECK SHALL EXTEND TO BOTTOM OF TRENCH, TO WIDTH OF TRENCH, TO 12 INCHES ABOVE PIPE, FOR A MINIMUM LENGTH OF 12 INCHES. TRENCH CHECK SHALL BE LOCATED AT LEAST 5 FEET FROM SANITARY MAIN.

GRADING/EARTHWORK NOTES:

- REFER TO GEOTECHNICAL REPORT FOR ALL COMPACTION REQUIREMENTS AND ASPHALT AND CONCRETE RECOMMENDED THICKNESS AND SUBGRADE TREATMENTS.
- RECOMMEND A GEOTECHNICAL ENGINEER REVIEW ALL EARTHWORK ACTIVITY TO MAKE SURE RECOMMENDATIONS IN GEOTECHNICAL REPORT ARE FOLLOWED.
- PRIOR TO PLACEMENT OF PAVEMENT, GEOTECHNICAL ENGINEER MUST APPROVE SUBGRADE IN WRITTEN FORM TO THE OWNER AND PROJECT ENGINEER.
- ALL UTILITY INSTALLATIONS UNDER PAVED AREAS MUST BE COMPACTED AS PER THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER AND THE GEOTECHNICAL REPORT.
- ALL CONSTRUCTION SHALL COMPLY WITH THE CITY OF LENEXA TECHNICAL SPECIFICATIONS.
- EXISTING TOPOGRAPHY SHOWN AS ESTABLISHED FROM AERIAL PHOTOGRAMMETRY AND FIELD, SPOT CHECKED BY SCHLAGEL AND ASSOCIATES, P.A.. CONTRACTOR TO FIELD VERIFY ELEVATIONS. NO ADDITIONAL MONEY WILL BE PAID FOR HAUL-IN OR HAUL-OFF MATERIAL.

EARTHWORK:

- IT IS RECOMMENDED THAT A GEOTECHNICAL ENGINEER OBSERVE AND DOCUMENT ALL EARTHWORK ACTIVITIES.
- CONTOURS HAVE BEEN SHOWN AT 1-FOOT OR 2-FOOT INTERVALS, AS INDICATED. GRADING SHALL CONSIST OF COMPLETING THE EARTHWORK REQUIRED TO BRING THE PHYSICAL GROUND ELEVATIONS OF THE EXISTING SITE TO THE FINISHED GRADE (OR SUB-GRADE) ELEVATIONS PROVIDED ON THE PLANS AS SPOT GRADES, CONTOURS OR OTHERS MEANS AS INDICATED ON THE PLANS.
- THE EXISTING SITE TOPOGRAPHY DEPICTED ON THE PLANS BY CONTOURING HAS BEEN ESTABLISHED BY AERIAL PHOTOGRAPHY AND FIELD VERIFIED BY G.P.S. OBSERVATION NEAR JULY 18TH, 2016. THE CONTOUR ELEVATIONS PROVIDED MAY NOT BE EXACT GROUND ELEVATIONS, BUT RATHER INTERPRETATIONS OF SUCH. ACCURACY SHALL BE CONSIDERED TO BE SUCH THAT NOT MORE THAN 10 PERCENT OF SPOT ELEVATION CHECKS SHALL BE IN ERROR BY MORE THAN ONE-HALF THE CONTOUR INTERVAL PROVIDED, AS DEFINED BY THE NATIONAL MAP ACCURACY STANDARDS. ANY QUANTITIES PROVIDED FOR EARTHWORK VOLUMES ARE ESTABLISHED USING THIS TOPOGRAPHY CONTOUR ACCURACY, AND THEREFORE THE INHERENT ACCURACY OF ANY EARTHWORK QUANTITY IS ASSUMED FROM THE TOPOGRAPHY ACCURACY. PROPOSED CONTOURS ARE TO APPROXIMATE FINISHED GRADE.
- UNLESS OTHERWISE NOTED, PAYMENT FOR EARTHWORK SHALL INCLUDE BACKFILLING OF THE CURB AND GUTTER, SIDEWALK AND FURTHER MANIPULATION OF UTILITY TRENCH SPOILS. THE SITE SHALL BE LEFT IN A MOWABLE CONDITION AND POSITIVE DRAINAGE MAINTAINED THROUGHOUT.
- UNLESS OTHERWISE NOTED, ALL EARTHWORK IS CONSIDERED UNCLASSIFIED. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ROCK OR SHALE EXCAVATION, UNLESS SPECIFICALLY STATED OTHERWISE.
- PRIOR TO EARTHWORK ACTIVITIES, PRE-DISTURBANCE EROSION AND SEDIMENT CONTROL DEVICES SHALL BE IN PLACE PER THE STORM WATER POLLUTION PREVENTION PLAN AND/OR THE EROSION AND SEDIMENT CONTROL PLAN PREPARED FOR THIS SITE.
- ALL TOPSOIL SHALL BE STRIPPED FROM ALL AREAS TO BE GRADED AND STOCKPILED ADJACENT TO THE SITE AT AN AREA SPECIFIED BY THE PROJECT OWNER OR HIS APPOINTED REPRESENTATIVE. VEGETATION, TRASH, TREES, BRUSH, TREE ROOTS AND LIMBS, ROCK FRAGMENTS GREATER THEN 6-INCHES AND OTHER DELETERIOUS MATERIALS SHALL BE REMOVED AND PROPERLY DISPOSED OF OFFSITE OR AS DIRECTED BY THE OWNER OR HIS APPOINTED REPRESENTATIVE.
- UNLESS OTHERWISE SPECIFIED IN THE GEOTECHNICAL REPORT, ALL FILLS SHALL BE PLACED IN MAXIMUM 6-INCH LIFTS AND COMPACTED TO 95-PERCENT OF MAXIMUM DENSITY AS DEFINED USING A STANDARD PROCTOR TEST (AASHTO T99/ASTM 698).
- SUBGRADE FOR PAVEMENTS SHALL BE PROOF-ROLLED PRIOR TO PAVING OPERATIONS UTILIZING A FULLY LOADED TANDY AXLE DUMP TRUCK. ALL AREAS EXHIBITING EXCESSIVE PUMPING AND HEAVING SHALL BE REMOVED, FILLED AND COMPACTED WITH SUITABLE MATERIALS AND RETESTED UNTIL ACCEPTABLE RESULTS ARE ACHIEVED AND FINAL APPROVAL HAS BEEN OBTAINED FROM THE GEOTECHNICAL ENGINEER.
- SUBGRADE FOR BUILDING PAD SHALL INCLUDE A MINIMUM OF 18-INCHES OF LOW VOLUME CHANGE (LVC) MATERIAL, OR AS IDENTIFIED IN THE SITE SPECIFIC GEOTECHNICAL REPORT.
- FILL MATERIALS SHALL BE PER GEOTECHNICAL REPORT AND SHALL NOT INCLUDE ORGANIC MATTER, DEBRIS OR TOPSOIL. ALL FILLS PLACED ON SLOPES GREATER THAN 6:1 SHALL BE BENCHED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REDISTRIBUTING THE TOPSOIL OVER PROPOSED TURF AND LANDSCAPED AREAS TO A MINIMUM DEPTH OF 6-INCHES BELOW FINAL GRADE.
- ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE, UNLESS NOTED OTHERWISE THE FOLLOWING GRADES SHALL APPLY:
 - TURF AREAS - 2.5% MINIMUM, 4H:1V MAXIMUM
 - PAVED AREAS - 1.2% MINIMUM, 5% MAXIMUM
- A.D.A. PARKING STALLS SHALL NOT BE SLOPED GREATER THEN 2% IN ANY DIRECTION AND CONSTRUCTED PER A.D.A. REQUIREMENTS.
- ALL DISTURBED AREAS SHALL BE FERTILIZED, SEEDED AND MULCHED IMMEDIATELY AFTER EARTHWORK ACTIVITIES HAVE CEASED. SEEDING SHALL BE PER THE EROSION AND SEDIMENT CONTROL PLAN AND/OR LANDSCAPE PLAN. IF NOT SPECIFIED SEEDING SHALL BE PER APWA SECTION 2400, LATEST EDITION. UNLESS OTHERWISE NOTED, SEEDING SHALL BE SUBSIDIARY TO THE CONTRACT PRICE FOR EARTHWORK AND GRADING ACTIVITIES.
- ALL DISTURBED AREAS IN THE RIGHT-OF-WAY SHALL BE SODDED.
- UNDERDRAINS ARE RECOMMENDED FOR ALL PAVED AREAS ADJACENT TO IRRIGATED TURF AND LANDSCAPED BEDS.
- CONTRACTOR SHALL ADHERE TO THE REPORTING REQUIREMENTS OUTLINED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PROPERLY MAINTAINED AND KEPT CLEAN OF SILT AND DEBRIS AND IN GOOD WORKING ORDER. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS REQUIRED.

UTILITIES:

- EXISTING UTILITIES HAVE BEEN SHOWN TO THE GREATEST EXTENT POSSIBLE BASED UPON INFORMATION PROVIDED TO THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE RESPECTIVE UTILITY COMPANIES AND FIELD LOCATING UTILITIES PRIOR TO CONSTRUCTION AND IDENTIFYING ANY POTENTIAL CONFLICTS. ALL CONFLICTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ANY REQUIRED UTILITY RELOCATIONS. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL VERIFY FLOW-LINES AND STRUCTURE TOPS PRIOR TO CONSTRUCTION, AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES. PROVIDE SHOP DRAWINGS FOR ALL PRECAST AND MANUFACTURED UTILITY STRUCTURES FOR REVIEW BY THE ENGINEER PRIOR TO CONSTRUCTION OF THE STRUCTURES.
- UTILITY SEPARATION: WATERLINES SHALL HAVE A MINIMUM OF 10 FEET HORIZONTAL AND 2 FEET VERTICAL SEPARATION FROM ALL SANITARY AND STORM SEWER LINES. IF MINIMUM SEPARATIONS CAN NOT BE OBTAINED, CONCRETE ENCASEMENT OF THE SANITARY OR STORM SEWER LINE SHALL BE REQUIRED 10 FEET IN EACH DIRECTION OF THE CONFLICT.
- PAYMENT FOR TRENCHING, BACKFILLING, PIPE EMBEDMENT, FLOWABLE FILL, BACKFILL MATERIALS, CLEAN UP, SEEDING, SODDING AND ANY OTHER ITEMS NECESSARY FOR THE CONSTRUCTION OF THE UTILITY LINE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE UTILITY INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING RESPECTIVE UTILITY COMPANIES 48-HOURS IN ADVANCE FOR THE INSPECTION OF ANY PROPOSED UTILITY MAIN EXTENSION OR SERVICE LINE OR SERVICE CONNECTION TO ANY EXISTING MAIN.
- TRENCH SPOILS SHALL BE NEATLY PLACED ONSITE ADJACENT TO THE TRENCH, AND COMPACTED TO PREVENT SATURATION AND EXCESS SEDIMENT RUNOFF. UNSUITABLE MATERIALS, EXCESS ROCK AND SHALE, ASPHALT, CONCRETE, TREES, BRUSH ETC. SHALL BE PROPERLY DISPOSED OF OFFSITE. MATERIALS MAY BE WASTED ONSITE AT THE DIRECTION OF THE OWNER OR HIS APPOINTED REPRESENTATIVE.

NOTE:

- TRENCH CHECKS TO BE INSTALL ON ALL SANITARY SEWER SERVICE LINES IN ACCORDANCE WITH CITY OF LEE'S SUMMIT STANDARDS.
- THERE ARE NO OIL OR GAS WELLS LOCATED WITHIN THIS PROJECT SITE.

Sheet List Table	
Sheet Number	Sheet Title
C0.0	COVER SHEET
C1.0	SITE PLAN
C2.0	GRADING PLAN
C2.1	INTERSECTION DTAILS
C3.0	EROSION CONTROL PLAN
C3.1	EROSION CONTOL DETAILS
C4.0	STORM SEWER PLAN & PROFILE
C5.0	DETENTION BASIN PLAN & PROFILE
C6.0	UTILITY PLAN
C7.0	SITE DETAILS
C7.1	SITE DETAILS
C7.2	SITE DETAILS
C7.3	SITE DETAILS
L1.0	LANDSCAPE PLAN
L2.0	LANDSCAPE DETAILS
L2.1	LANDSCAPE DETAILS

PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

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

APPROVED BY:

CITY ENGINEER

APPROVED FOR ONE YEAR FROM THIS DATE

DATE

OWNER/DEVELOPER:

LAKEWOOD SELF-STORAGE, LLC
JUSTIN BEAL OR MICHAEL VANBURSKIRK
1220 WASHINGTON, SUITE 300
KANSAS CITY, MO 64105
P: (816) 268-4241
E: JB.EAL@NGZIMMER.COM



REVISION	DATE	DESCRIPTION
1	08/13/2021	City Comments
2	08/26/2021	City Comments
3		
4		
5		
6		
7		
8		
9		
10		

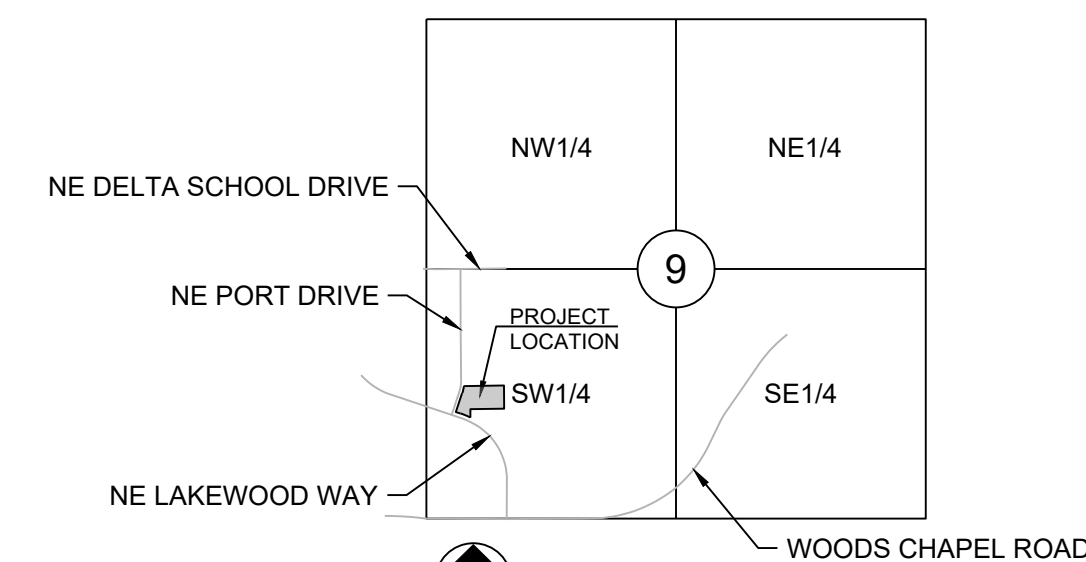
COVER SHEET

SHEET

C0.0

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

	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

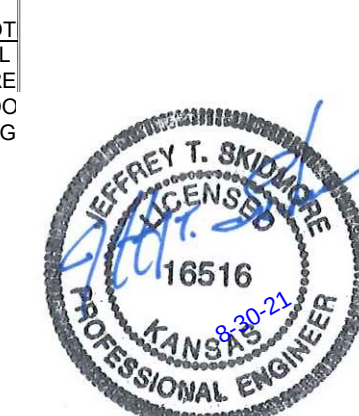


SECTION 9-48-31

LOCATION MAP
SCALE 1" = 2000'

SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14320 West 107th Street • Lenexa, Kansas 66215
(913) 492-5158 • Fax: (913) 492-8400
WWW.SCHLAGELASSOCIATES.COM
Missouri State Certificates of Authority

PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

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

OWNER: KELLEY PAUL L. TRUSTEE
ADDRESS: 1204 NE WOODS CHAPEL DR

REVISION DATE	DESCRIPTION
1. 09/13/2021	City Comments
2. 09/26/2021	City Comments
3.	
4.	
5.	
6.	
7.	
8.	

SITE PLAN

SHEET

C1.0

OVERALL SITE DATA

EXISTING ZONING
PROPOSED ZONING
SITE AREA
PROPOSED BUILDING USE
BUILDING HEIGHT
FINISHED FLOOR ELEV.

LOT 1 SITE DATA

LOT 1 AREA
TOTAL BUILDING AREA
PAVEMENT AREA
TOTAL IMPERVIOUS AREA
OPEN AREA
FLOOR AREA RATIO (FAR)

PARKING DATA

PARKING REQUIRED	
OFFICE FLOOR AREA	
TOTAL REQUIRED	
PARKING PROPOSED	
TOTAL PARKING PROVIDED	

P-MIX
P-MIX
2.93 ACRES
WAREHOUSE, TRANSFER AND STORAGE
40 FEET (ELEV. 980.0)
940.0

124,458.3 S.F. (2.93 ACRES)

34,400.0 S.F.
22,212.2 S.F.

36,612.2 S.F.
71,012.2 S.F.

53,446.1 S.F.

27.6%

1,000 S.F. = 4 SPACES (4 PER 1,000 S.F. OF GFA)
4 SPACES

6 SPACES (1 ACCESSIBLE PARKING)

NORTH 2.5
MILLION
GALLON TANK
AGRICULTURAL

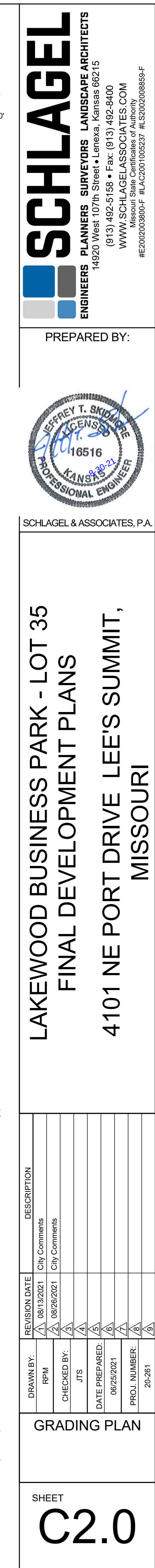
FLOOD NOTE:

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.

1-800-344-7483 or 811
mo4call.com



\\PROJECTS\2020\20-261\3.0 Design\3.0 DWG Plans\3.0 FDP-SITE.dwg, 8/26/2021 2:15:52 PM, 1:1



PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

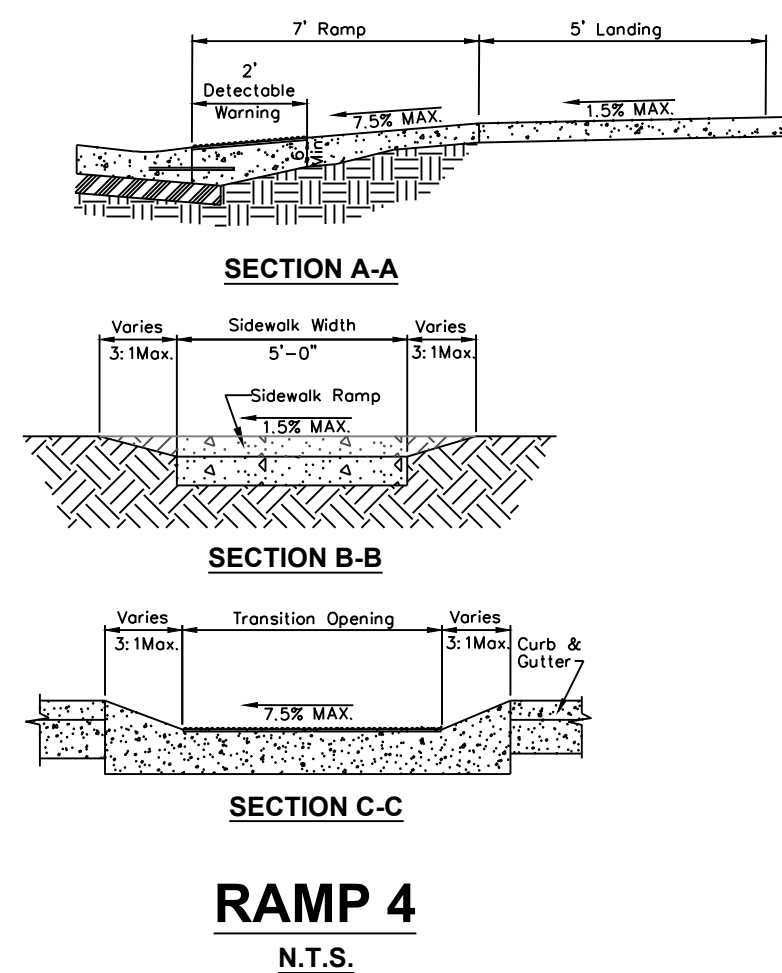
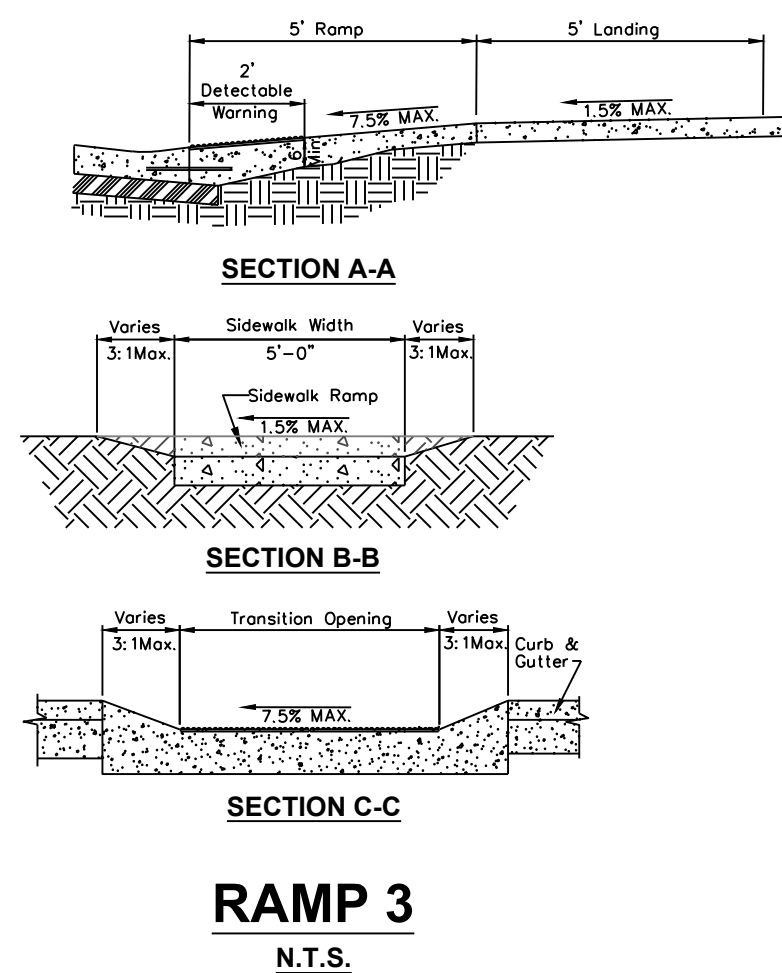
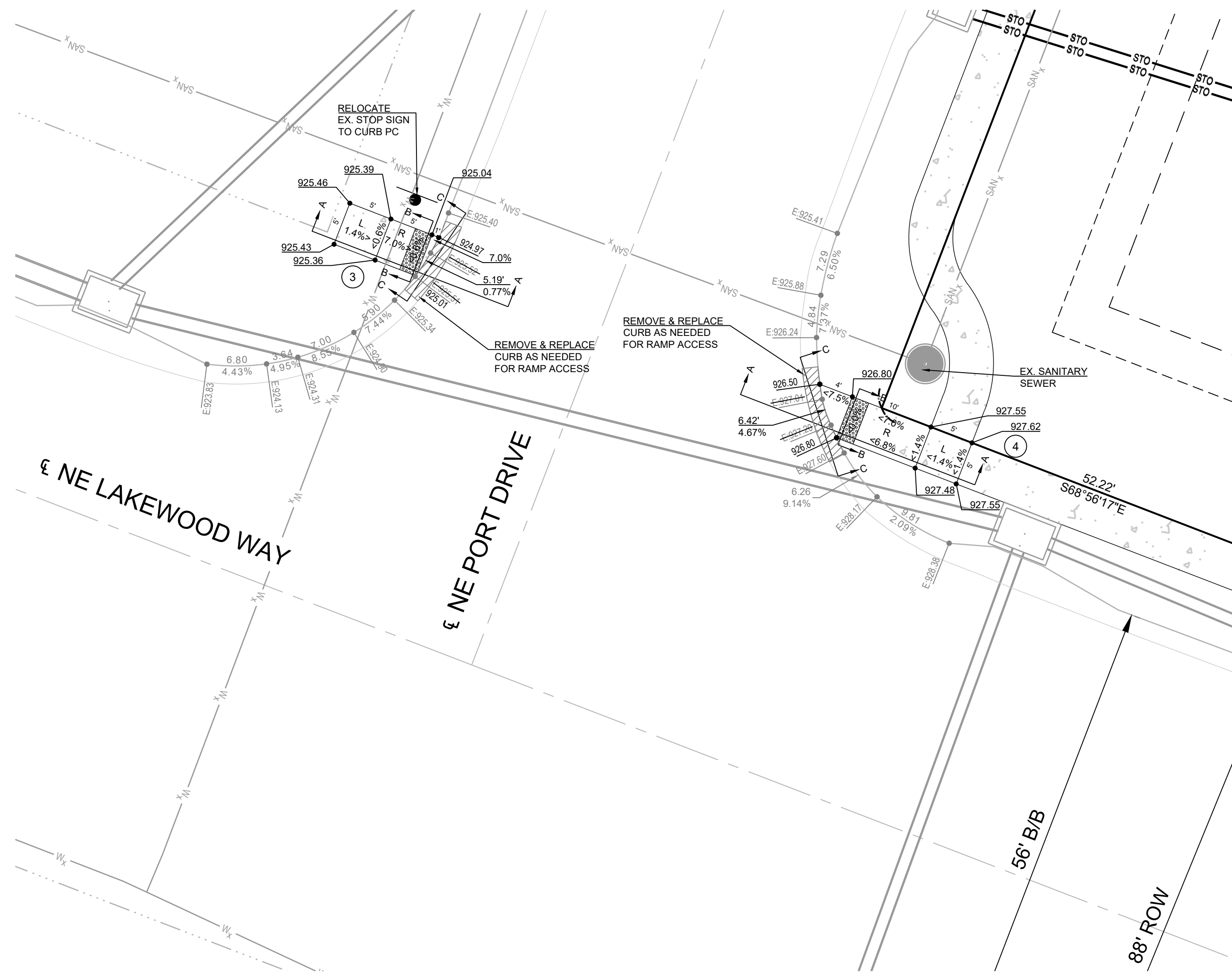
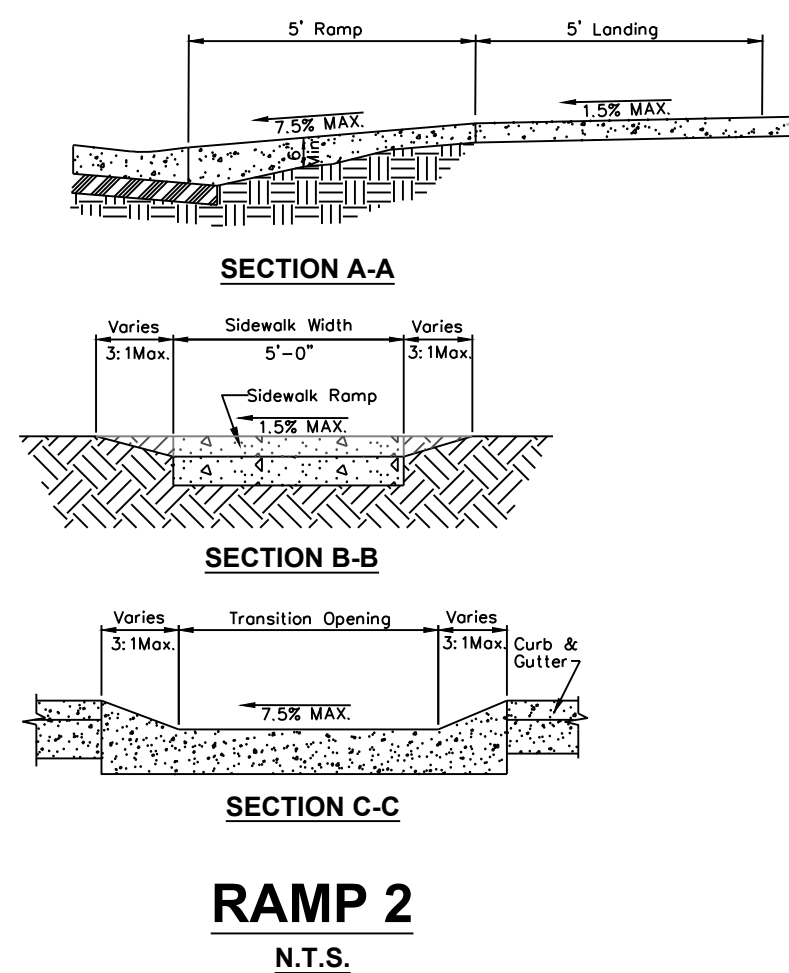
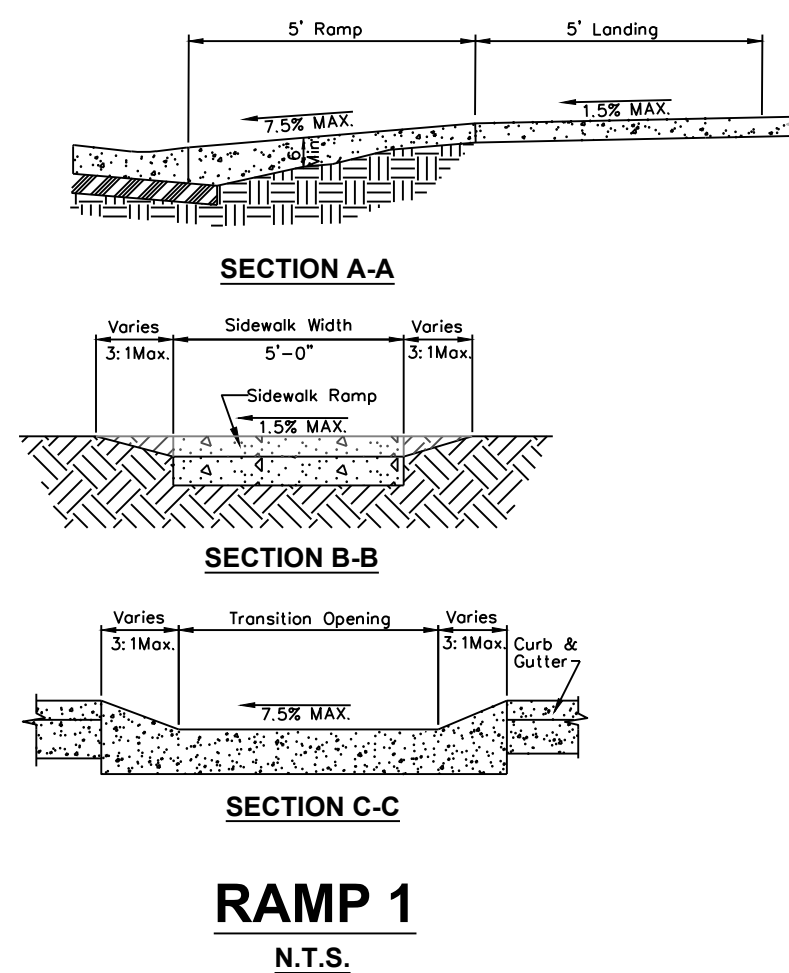
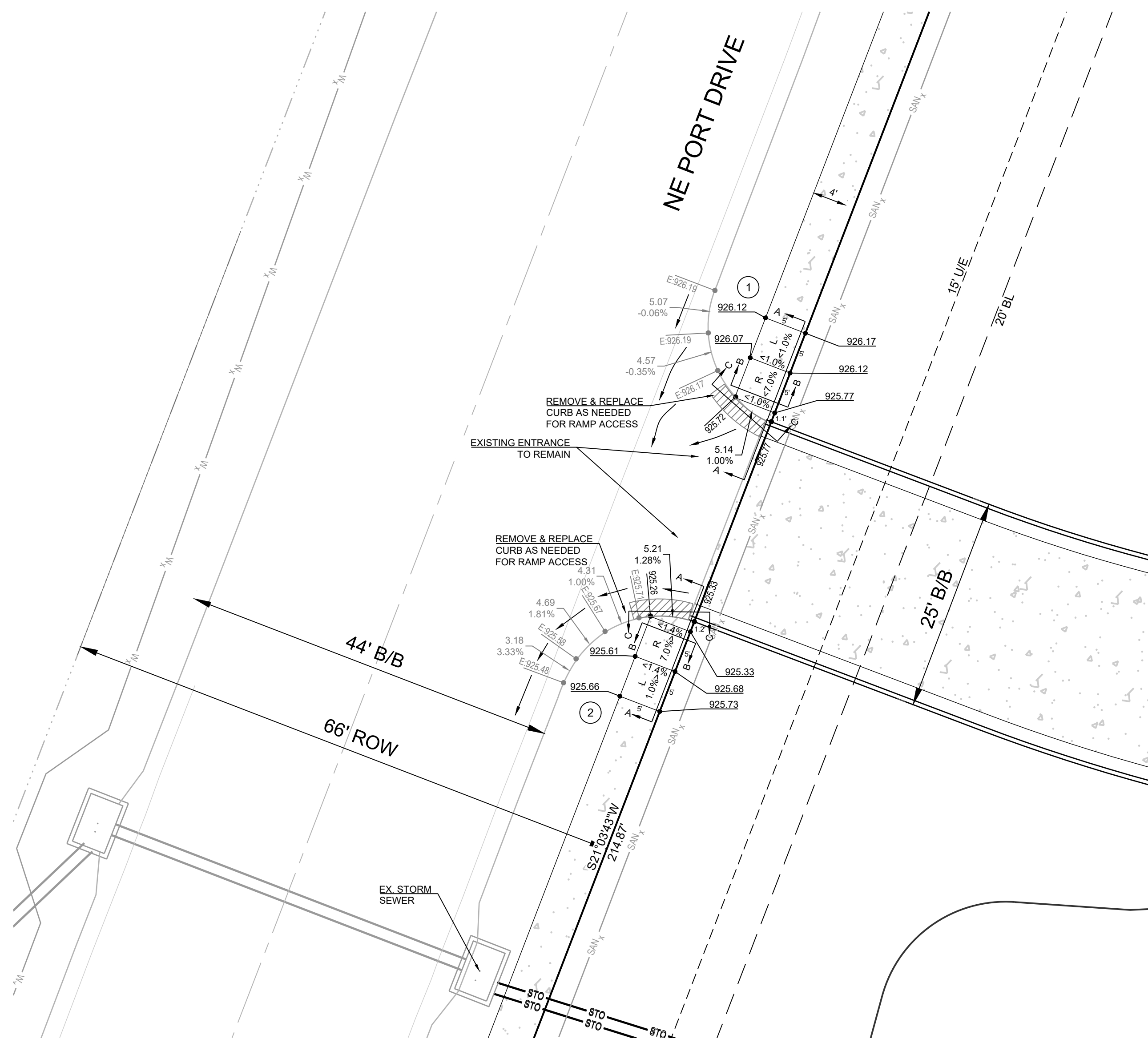
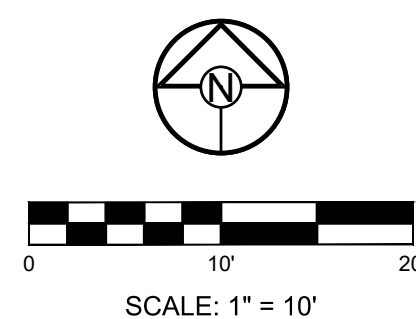
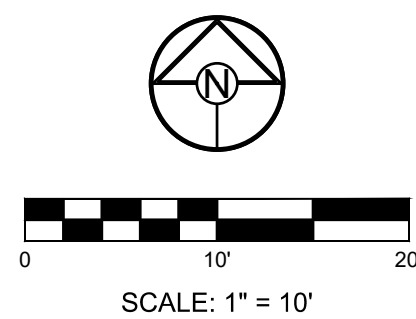
LAKEWOOD BUSINESS PARK - LOT 35
FINAL DEVELOPMENT PLANS
4101 NE PORT DRIVE
LEE'S SUMMIT, MISSOURI

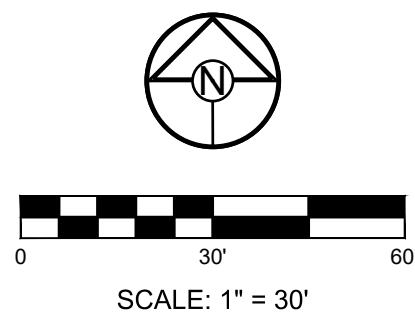
REVISION	DATE	DESCRIPTION
1	08/13/2021	City Comments
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3		
4		
5		
6		
7		
8		

DRAWN BY:	RPM
CHECKED BY:	JTS
DATE PREPARED:	08/25/2021
PROJ. NUMBER:	20-261

INTERSECTION
DETAILS

SHEET
C2.1





DISTURBED AREA = 2.93 A.C.

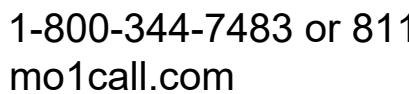
SITE SPECIFIC NOTES:

- | | | |
|----|--|---|
| 1. | THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION. | 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. |
| 2. | THERE ARE NO WETLANDS, NATURAL OR ARTIFICIAL WATER STORAGE DETENTION AREAS IN THE PROJECT AREA. | |
| 3. | NO PART OF THE PROJECT LIES WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD INSURANCE RATE MAP NUMBER 29095C0414 DATED JANUARY 20, 2017. | 7. ALL PERIMETER SILT FENCE, EARTH DIKES, SEDIMENT BASINS, AND ROCK CONSTRUCTION ENTRANCES WILL BE INSTALLED BEFORE GRADING OPERATIONS BEGIN. |
| 4. | ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED ACCORDING TO THE BMP STAGING CHART. | 8. SILT FENCE AND EARTH DIKES THAT ARE PLACED BEFORE GRADING BEGINS WILL BE MAINTAINED BY THE GRADING CONTRACTOR. |
| 5. | 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. | 9. AREAS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE SODDED IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE. |

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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Missouri State Certificates of Authority
#E200203089-1 #LAC200109527 #LS2002009859-F

PREPARED BY:



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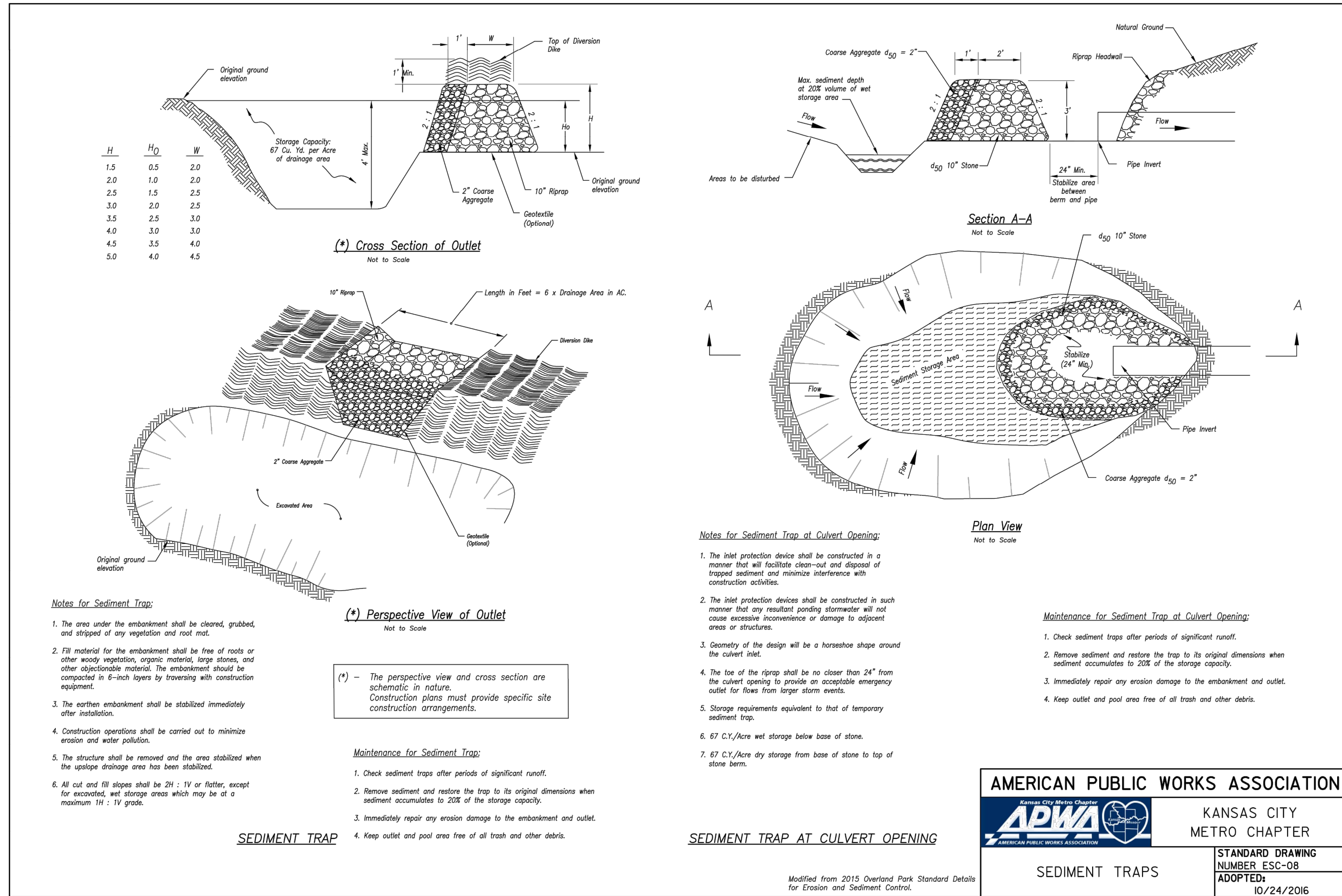
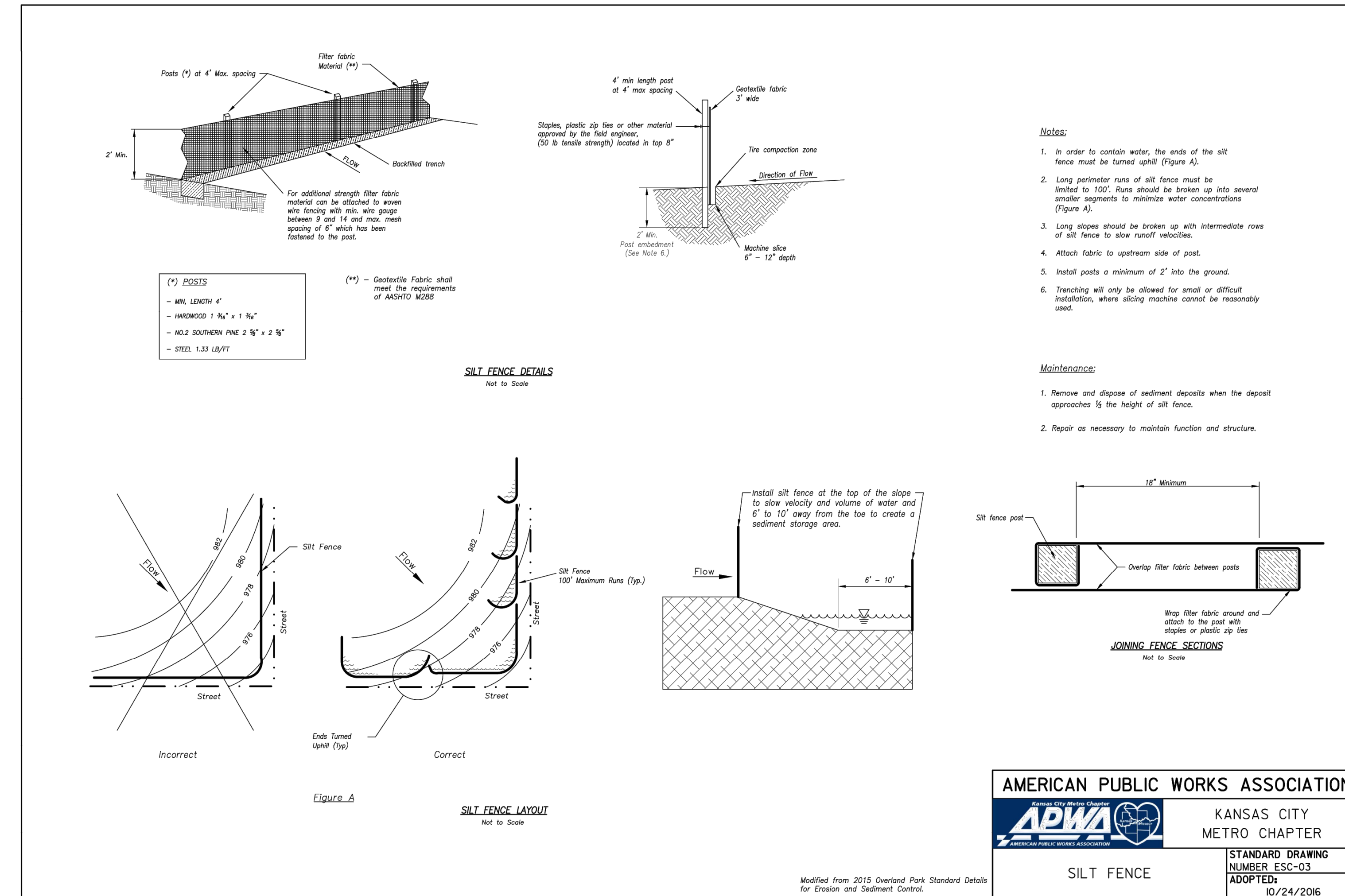
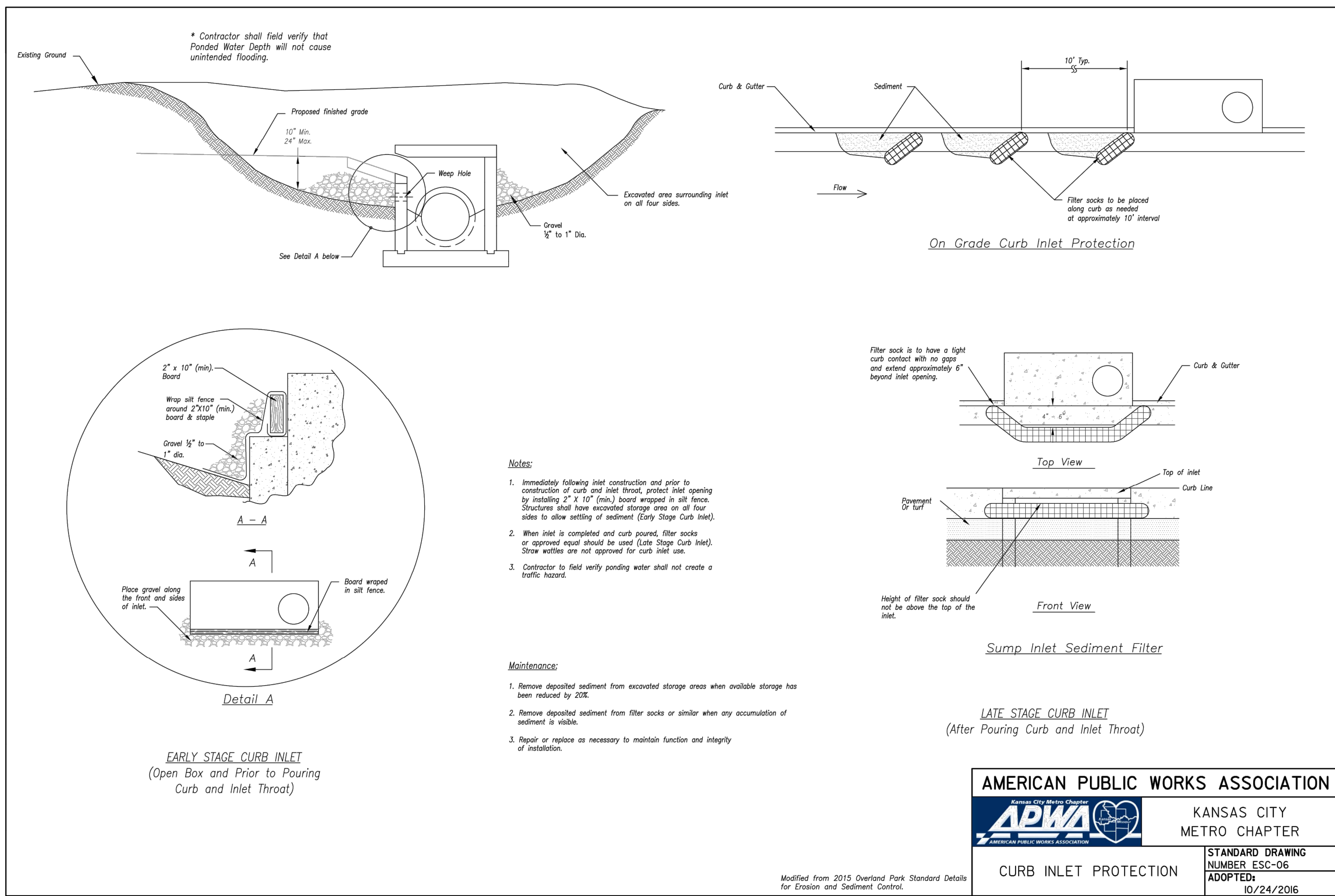
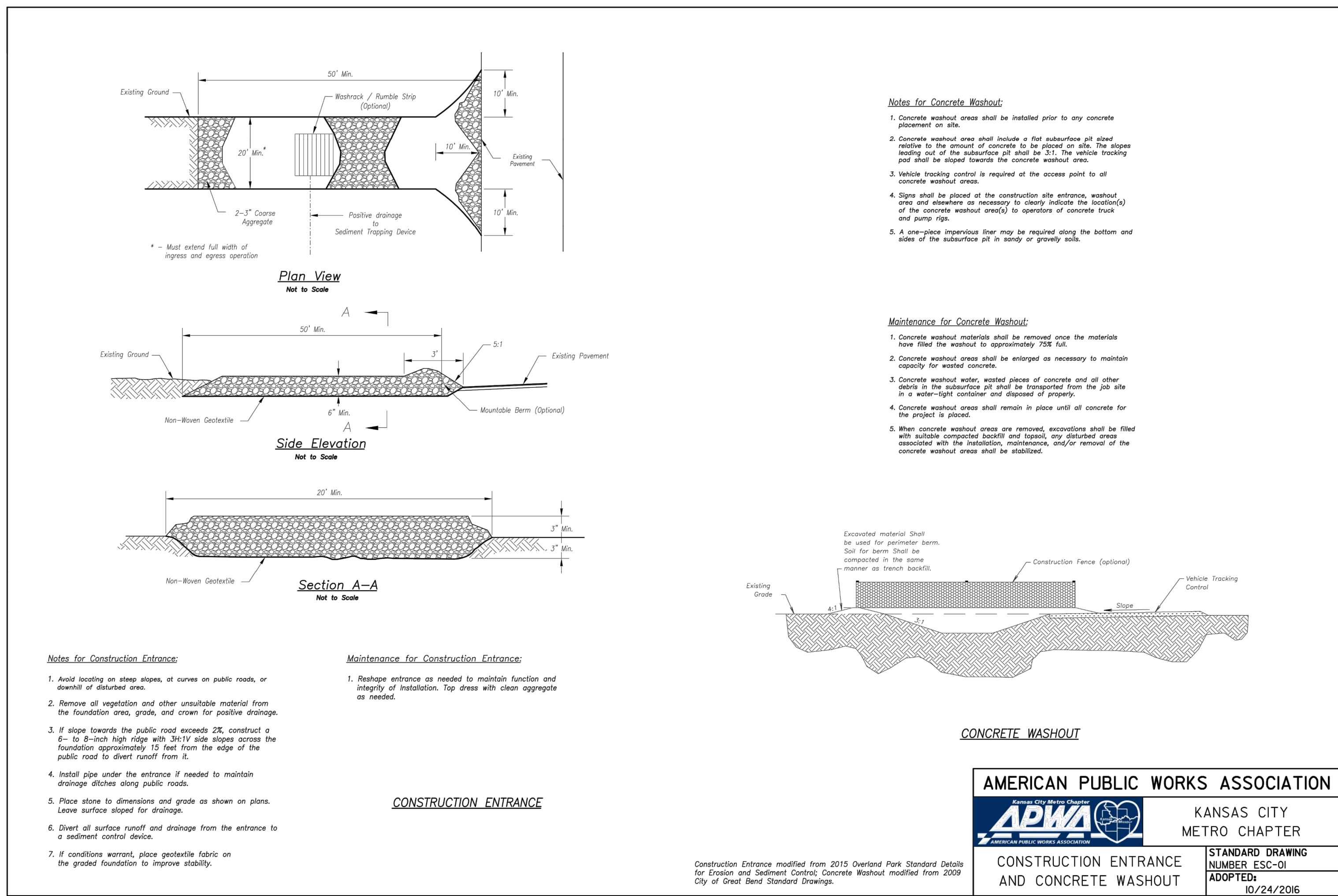
LAKewood BUSINESS PARK - LOT 35
FINAL DEVELOPMENT PLANS
4101 NE PORT DRIVE LEE'S
SUMMIT, MISSOURI

DRAWN BY:		REVISION DATE	DESCRIPTION
RPM	1	08/13/2021	City Comments
	2	08/26/2021	City Comments
CHECKED BY:			
JTS	3		
	4		
DATE PREPARED:			
08/25/2021	5		
	6		
PROJ. NUMBER:			
20-261			

EROSION CONTROL PLAN

SHEET

C3.0



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
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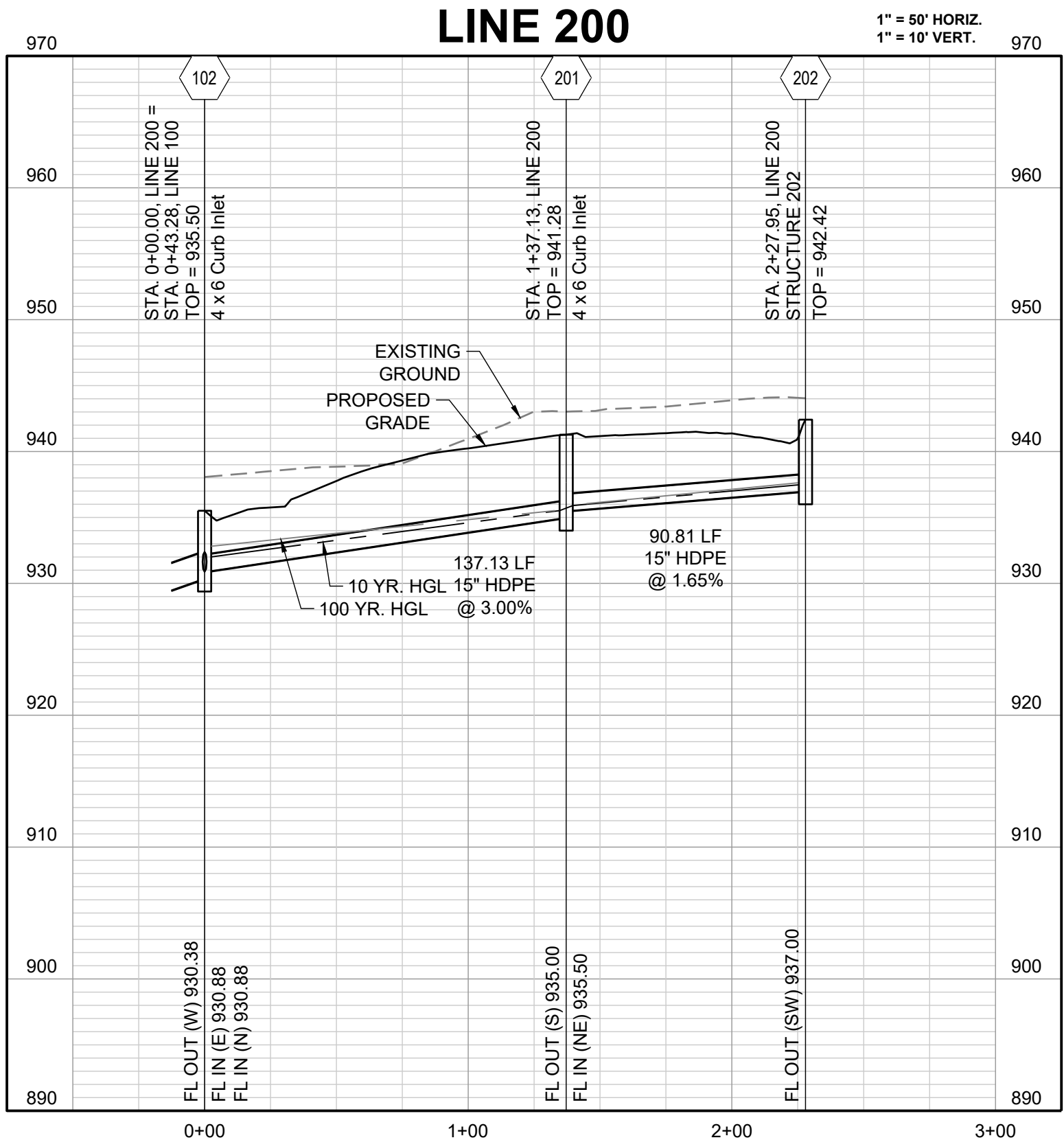
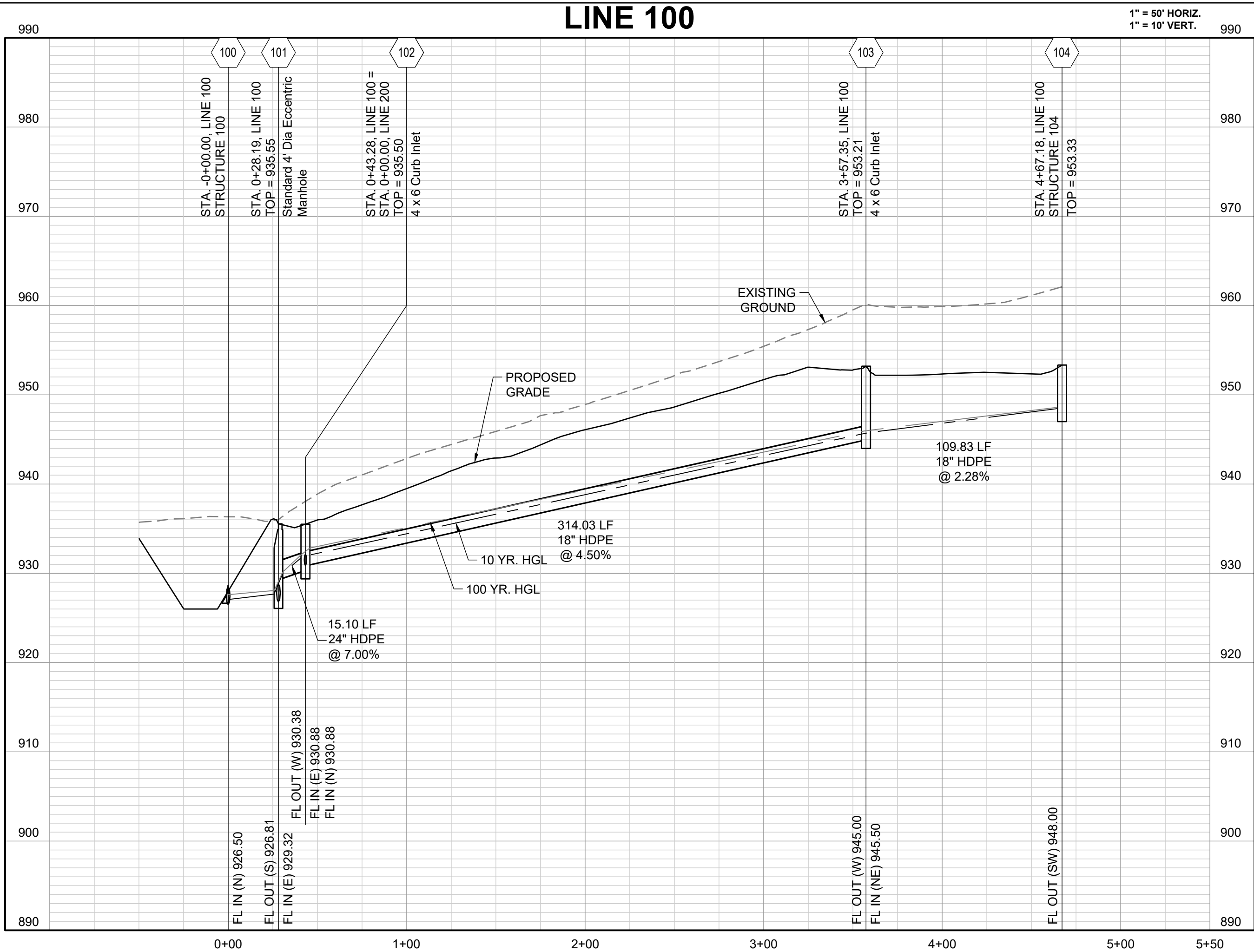
DRAWN BY:	RPM
CHECKED BY:	JTS
DATE PREPARED:	06/25/2021
PROJ. NUMBER:	20-261

EROSION
CONTOL DETAILS

SHEET

C3.1

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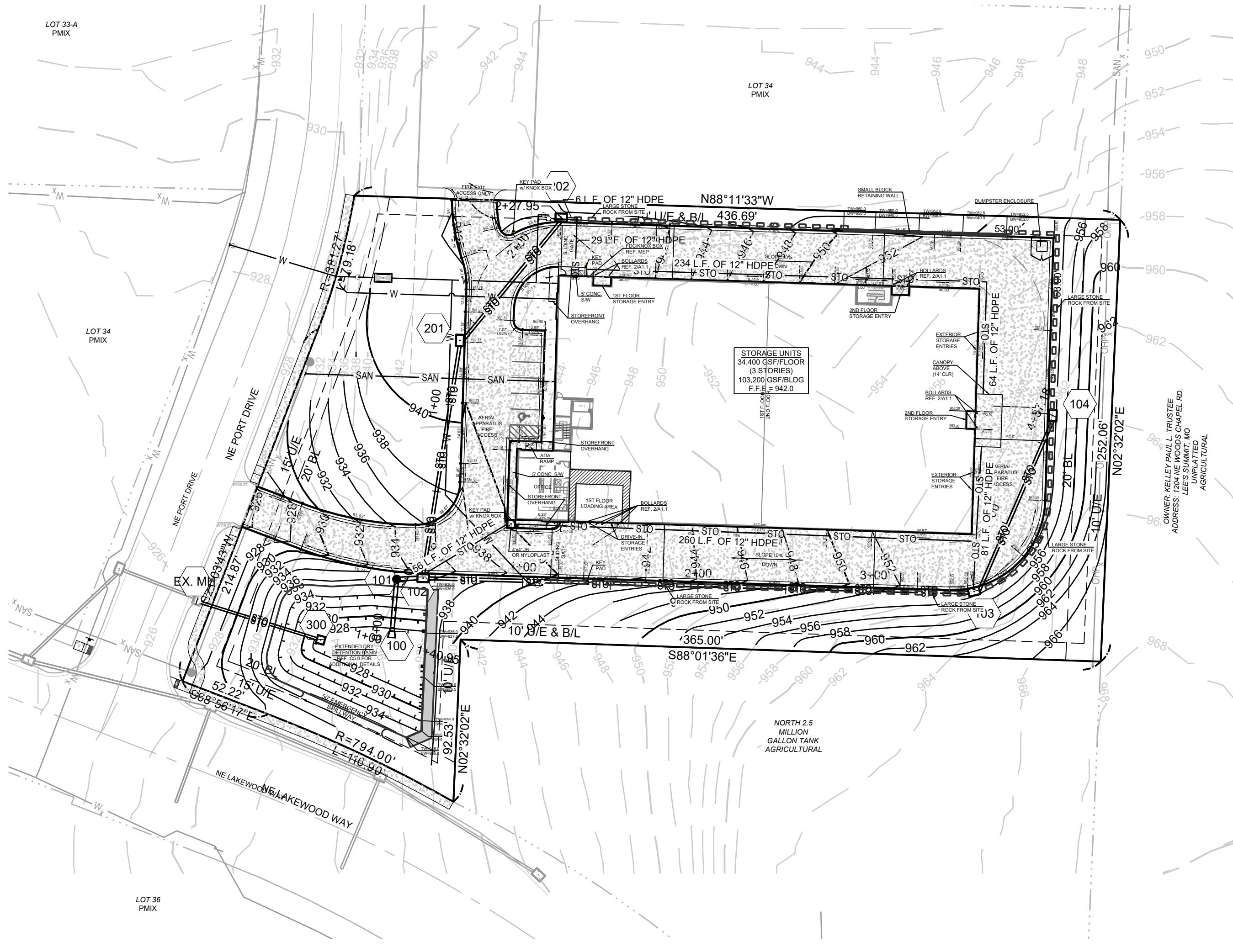


Storm Sewer Construction Notes	
Structure	Notes
100	STA -0+00.00, LINE 100 INSTALL 24 INCH RCP F.E.S. 264°58'18" N 1026415.6767 E 2830785.4381
101	STA 0+28.19, LINE 100 INSTALL STANDARD 4' DIA ECCENTRIC MANHOLE 84°58'17" N 1026443.7542 E 2830787.9087
102	STA 0+43.28, LINE 100 INSTALL 4 X 6 CURB INLET 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

STORM SEWER
PLAN & PROFILE

SHEET

C4.0



Schlagel & Associates, P.A.

Project Name:		LAKEWOOD BUSINESS PARK										Curb Type: A															
Project #:		18-222										City: LEE'S SUMMIT															
Time:		6/22/2021 11:14																									
Design Storm:		10																									
"K" Value:		1.00																									
Runoff Calculations														Pipe Properties													
Inlet #	Area (acres)	"C" Value	Cumul. Area (acres)	Cumul. Cx/A	Tc	Intensity	Runoff To Inlet	Cumul. Runoff	Pipe Cap.	Pipe Vel.	Up Piped Inlet 1	Up Piped Inlet 2	Up Area (acres)	Up Cx/A	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	201		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			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	Drop in Inlet 102		0.50			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												HGL Elev.							
Inlet #	Area (acres)	"C" Value	Cumul. Area (acres)	Cumul. Cx/A	Tc	Intensity	Runoff To Inlet	Cumul. Runoff	Pipe Cap.	Pipe Vel.	Up Piped Inlet 1	Up Piped Inlet 2	Up Area (acres)	Up Cx/A	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	201		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			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								
																						Drop in Inlet 102				0.50								



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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
08/26/2021	City Comments

DRAWN BY: RPM
CHECKED BY: JTS
DATE PREPARED: 06/25/2021
PROJ. NUMBER: 20-261

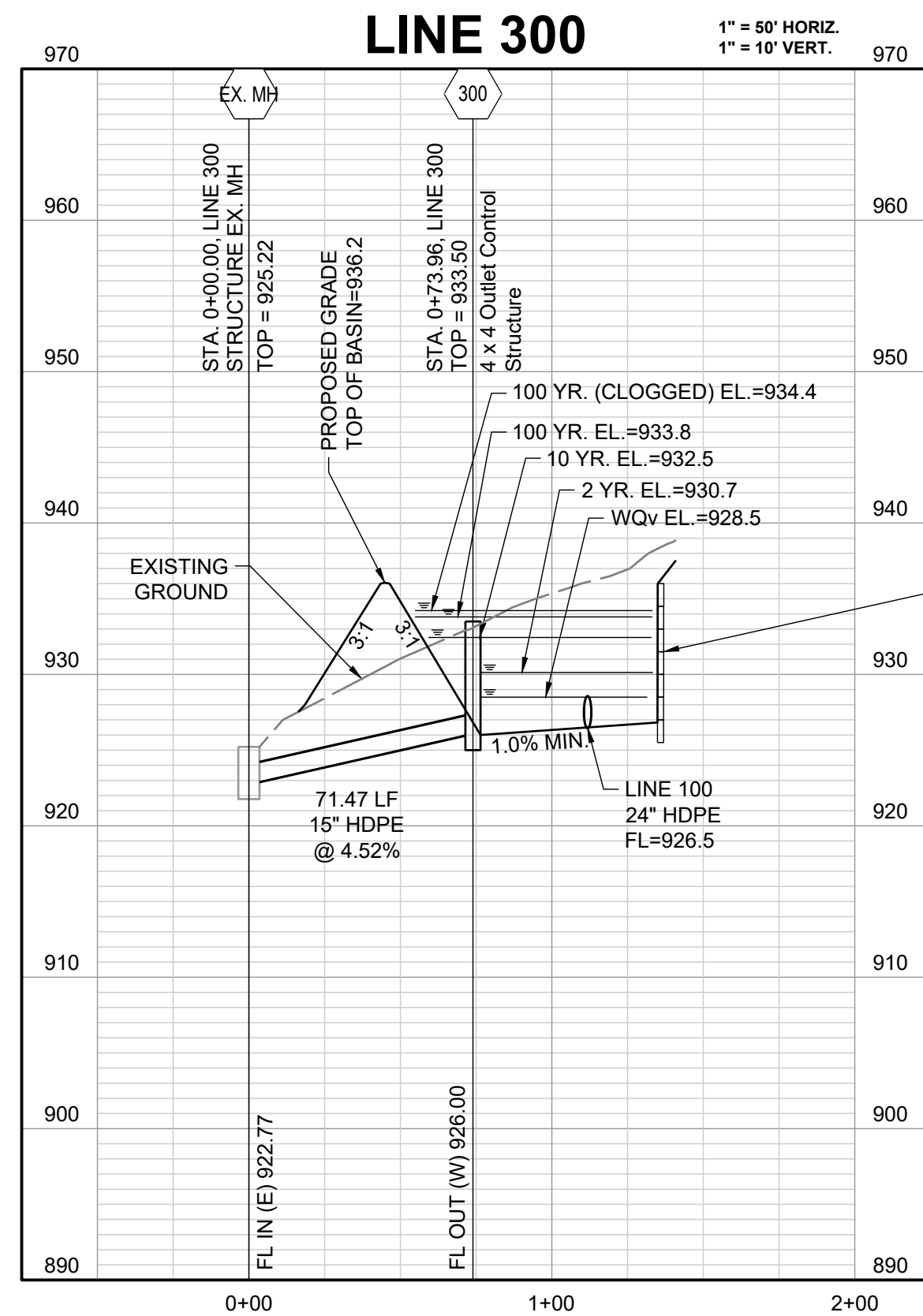
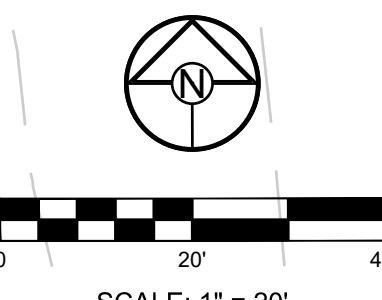


Diagram illustrating the spillway structure and dimensions:

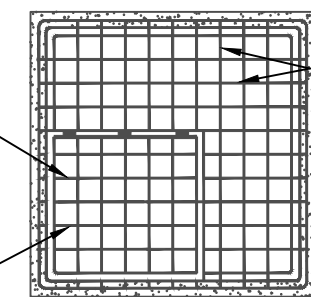
- Spillway Crest Elevation: EL. 935.2
- Water Surface Elevation (WSE): 936.2
- Height of Water Above Spillway Crest: $H = 0.2$ FT
- Spillway Length: $L = 50$ FT
- Downstream Slope: 1:3
- Bottom Elevation: 933.8
- Storage Capacity: 29,187 CU. YDS.
- Freeboard: 1' FREEBOARD (MIN.)
- Top of Dam Elevation: EL. 936.2
- 100-Yr. (Clogged) WSE: 935.4
- 100-Yr. WSE: 933.8
- Storage Capacity (100-Yr. WSE): 20,472 CU. YDS.

- $Q = C * L * H^{\frac{3}{2}}$
- $Q = Q_{100}$
- $C = 3.33$
- $L = \text{BASE WIDTH}$
- $H = \text{HEIGHT}$

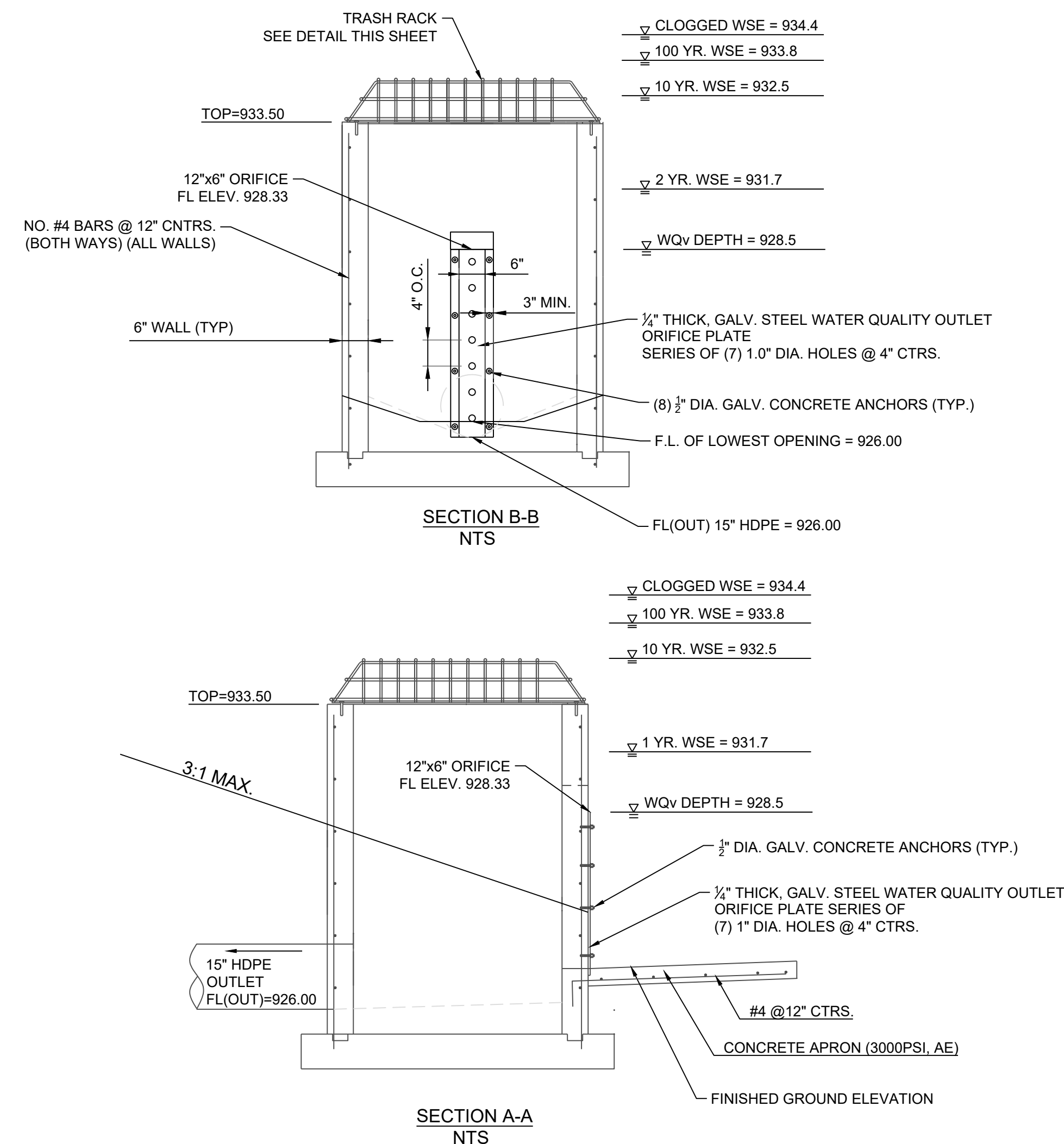
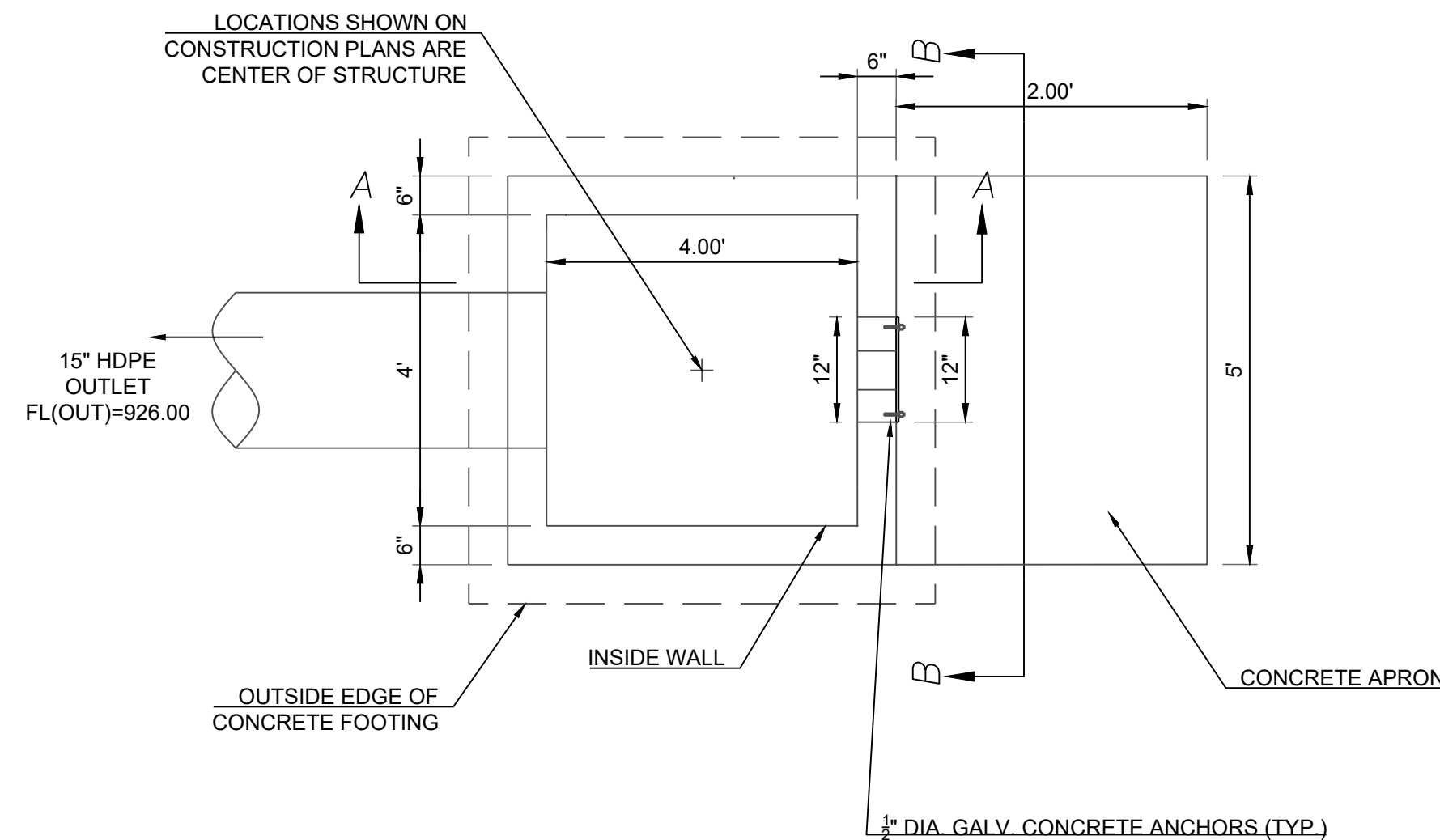
Storm Sewer Construction Notes	
Structure	Notes
300	STA 0+73.96, LINE 300 INSTALL 4 X 4 OUTLET CONTROL STRUCTURE 344°39'59" N 1026409.1464 E 2830744.6401

NOTES

1. ALL METAL PARTS TO BE GALVANIZED
2. PROVIDE ACCESS GATE TO TRASH RACK



TRASH RACK DETAIL



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

REVISION DATE	DESCRIPTION
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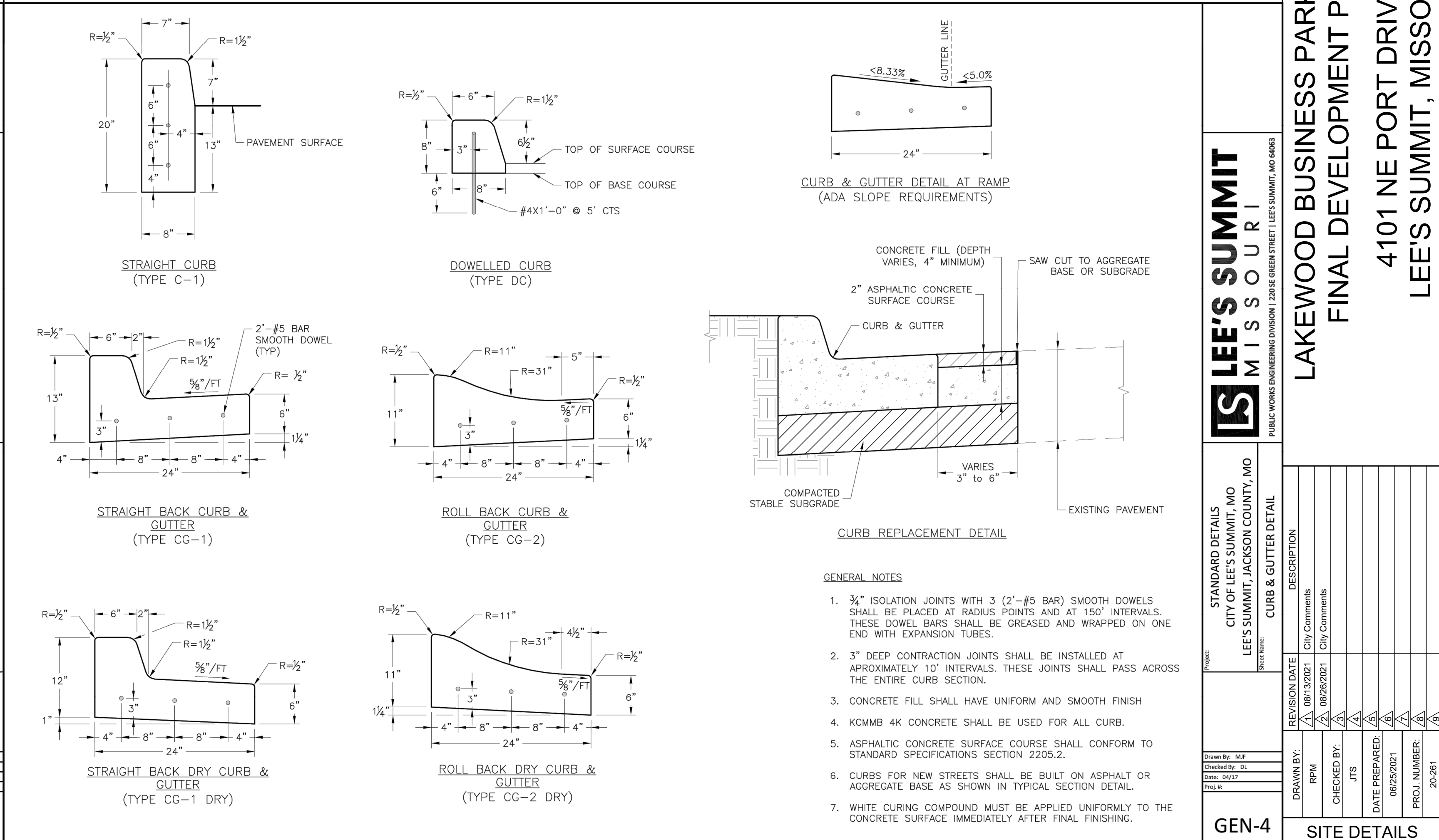
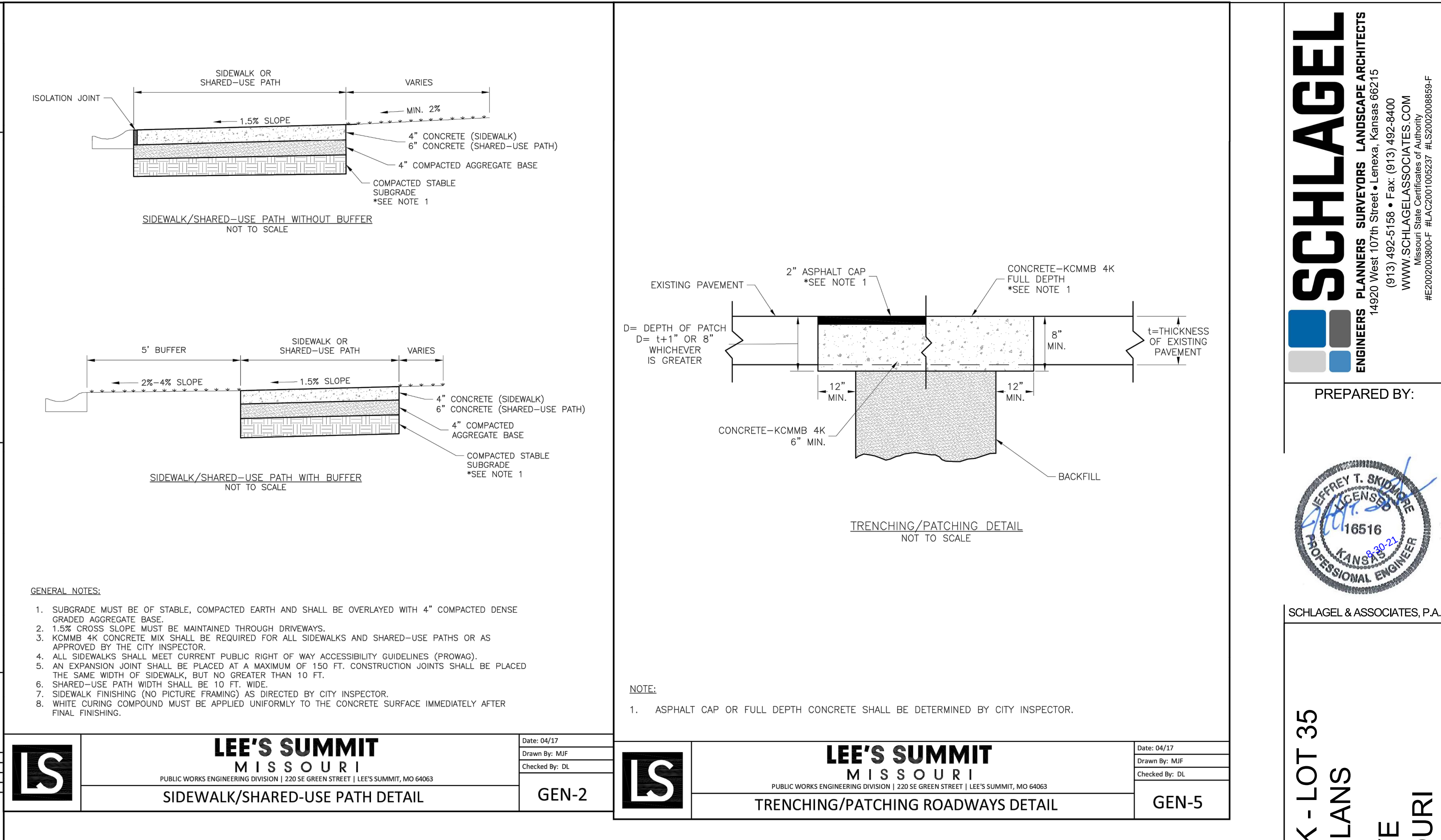
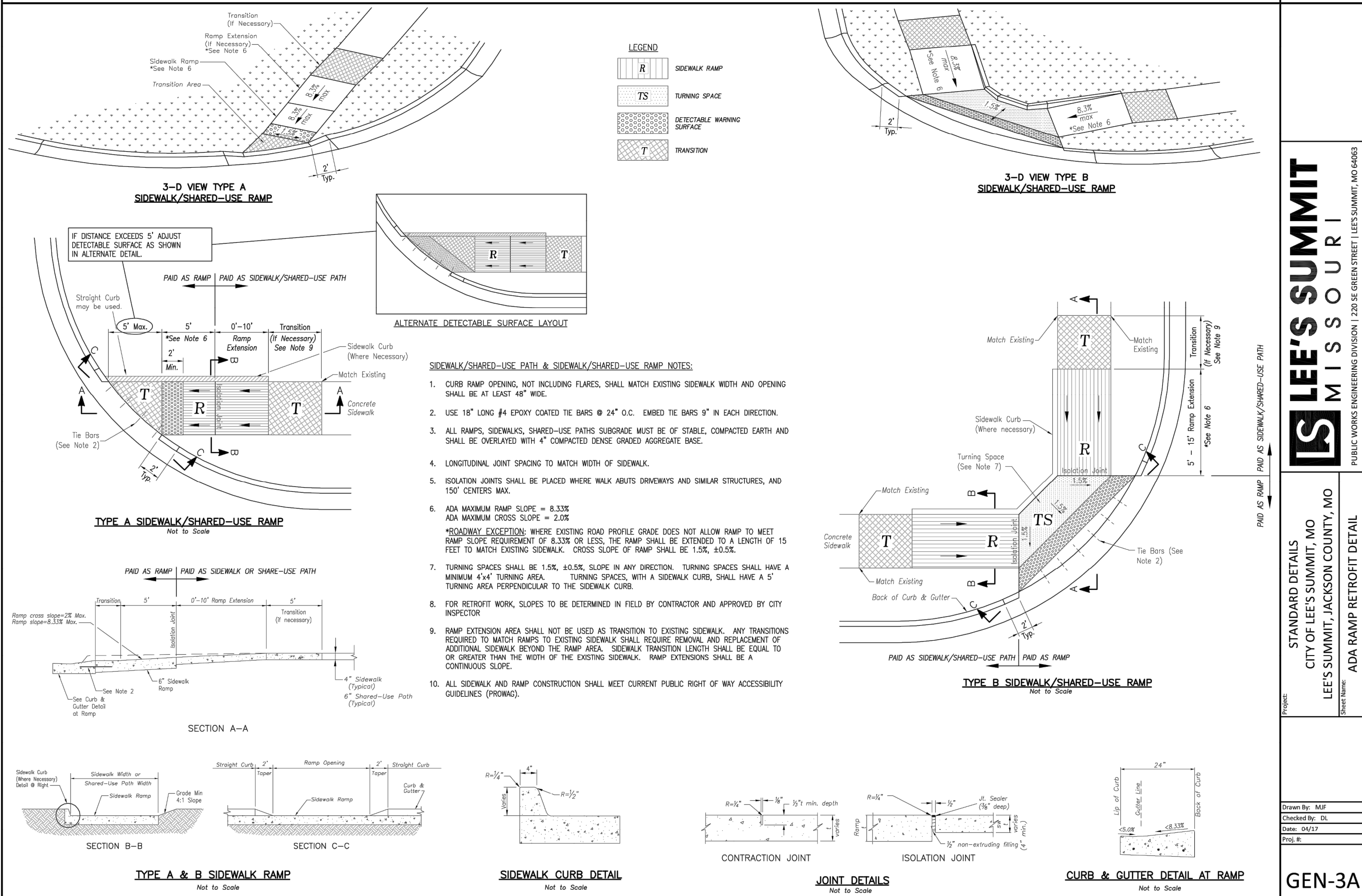
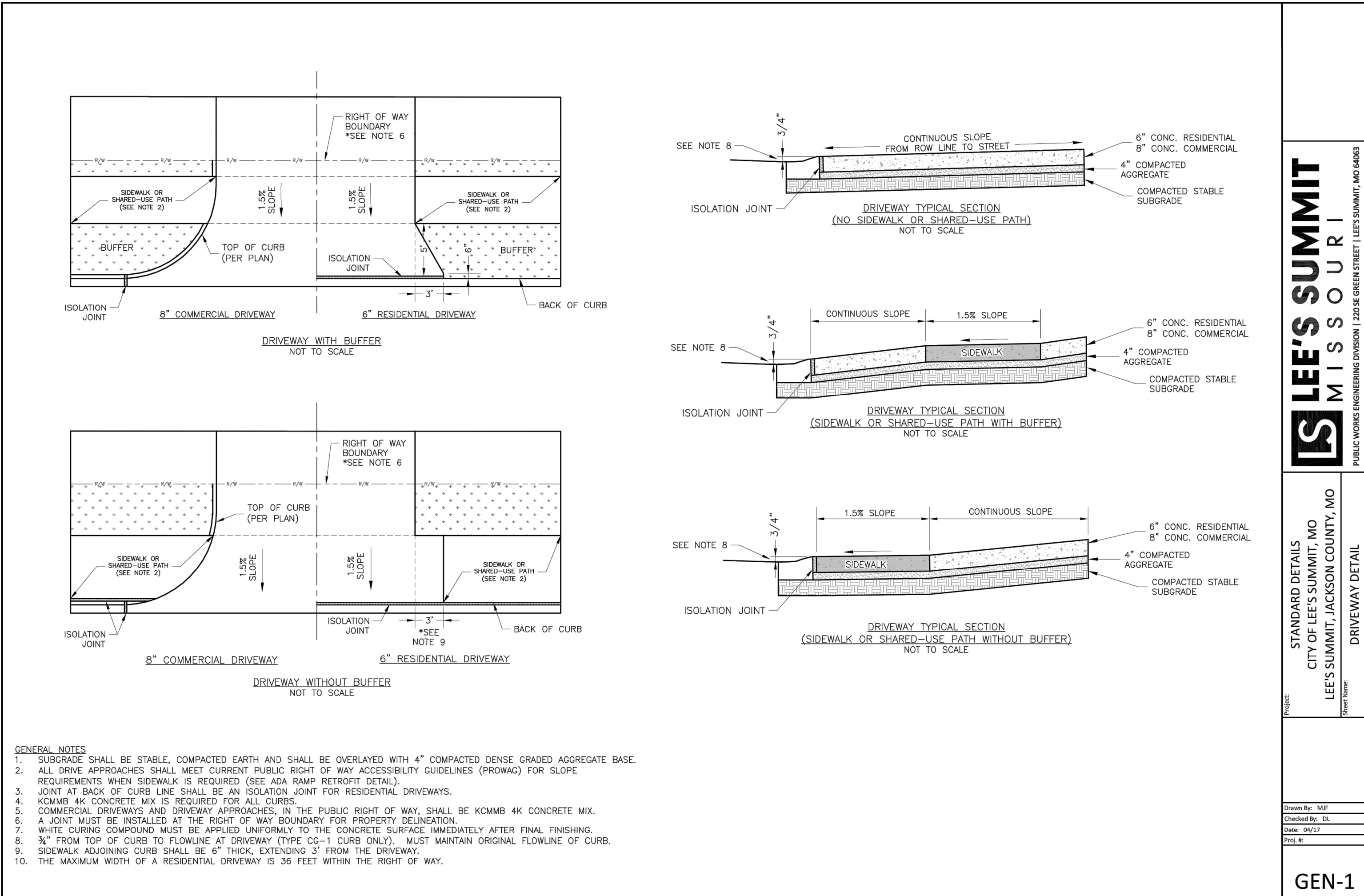
DETENTION BASIN PLAN & PROFILE

SHEET

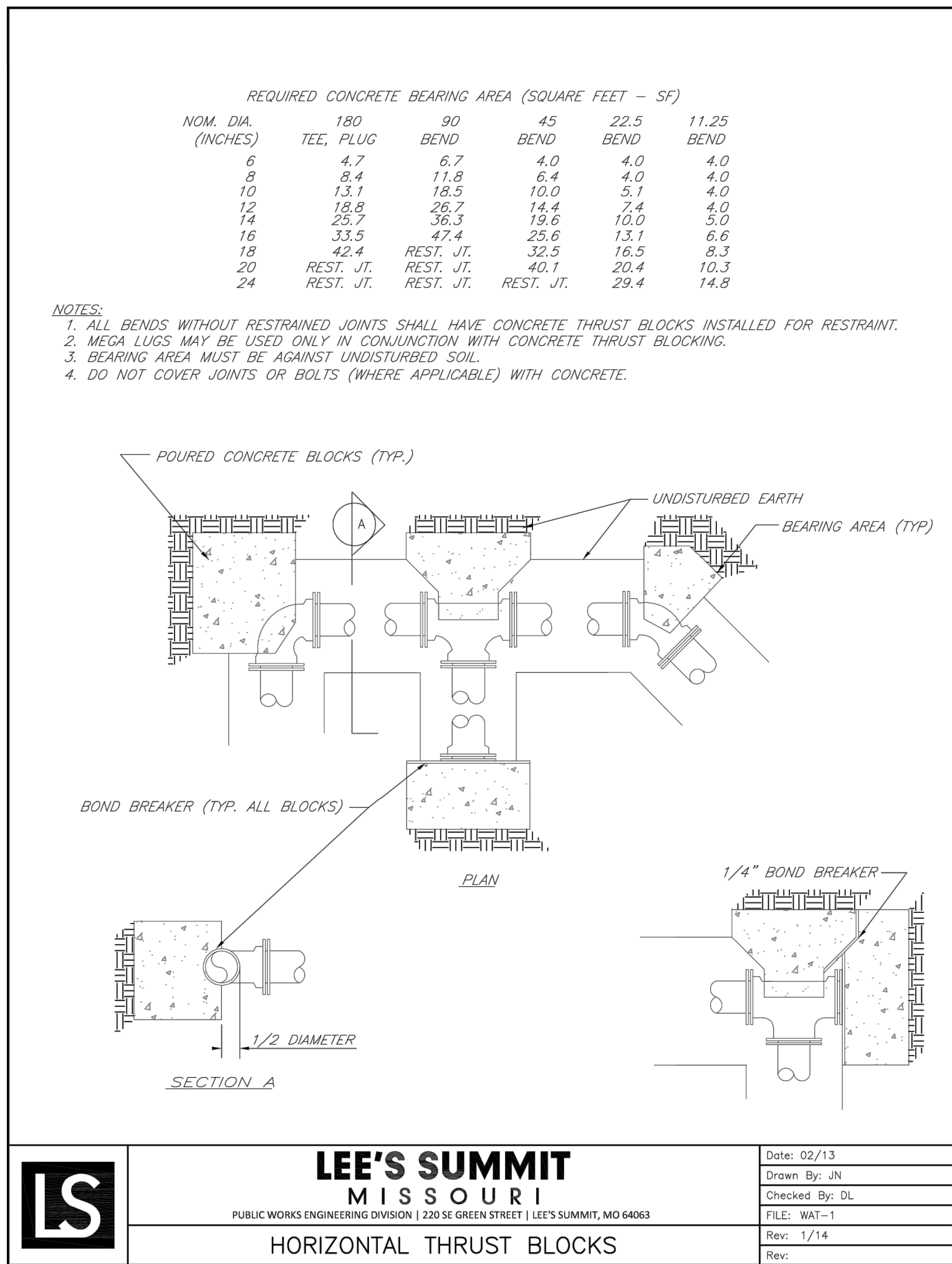
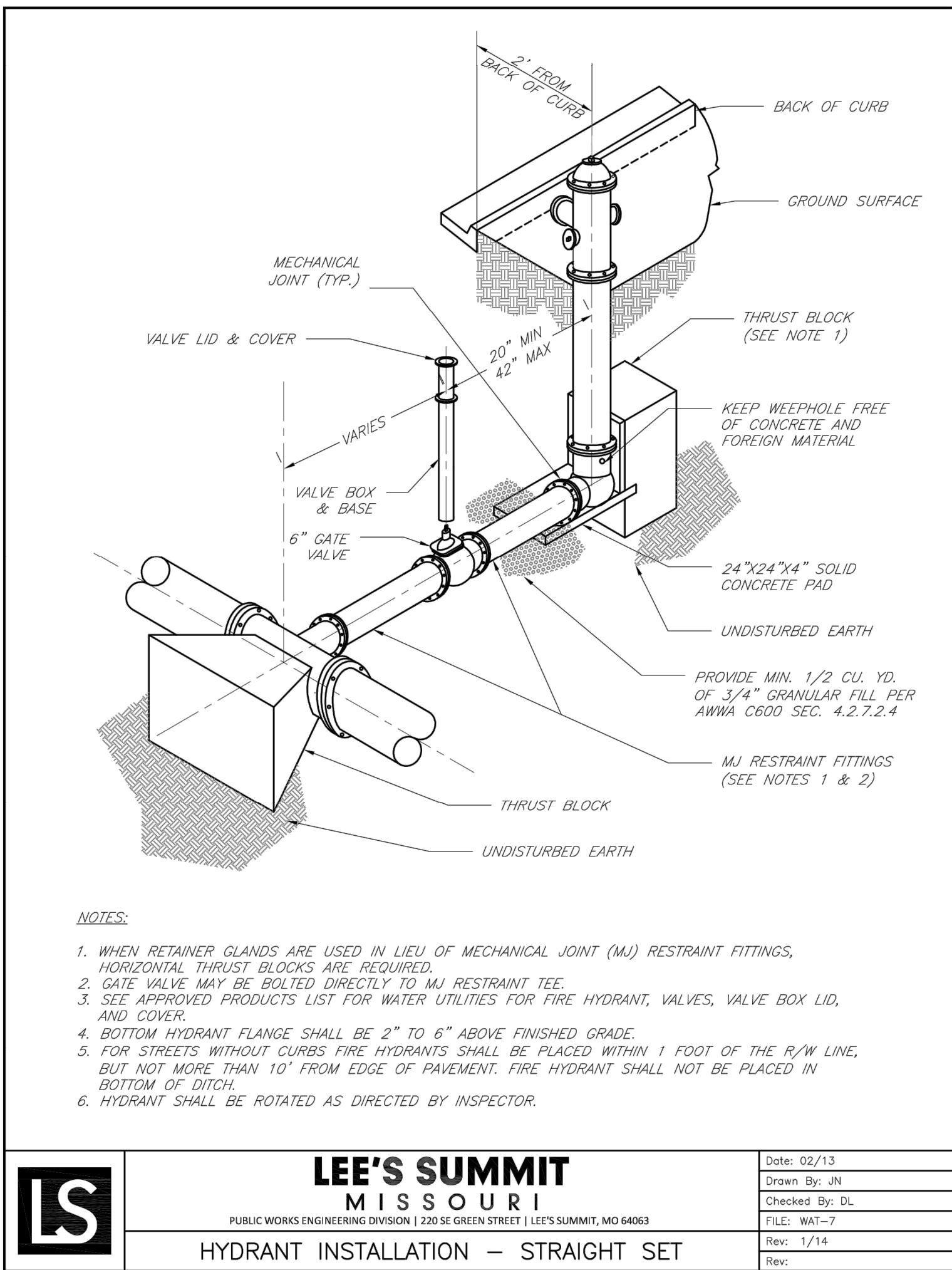
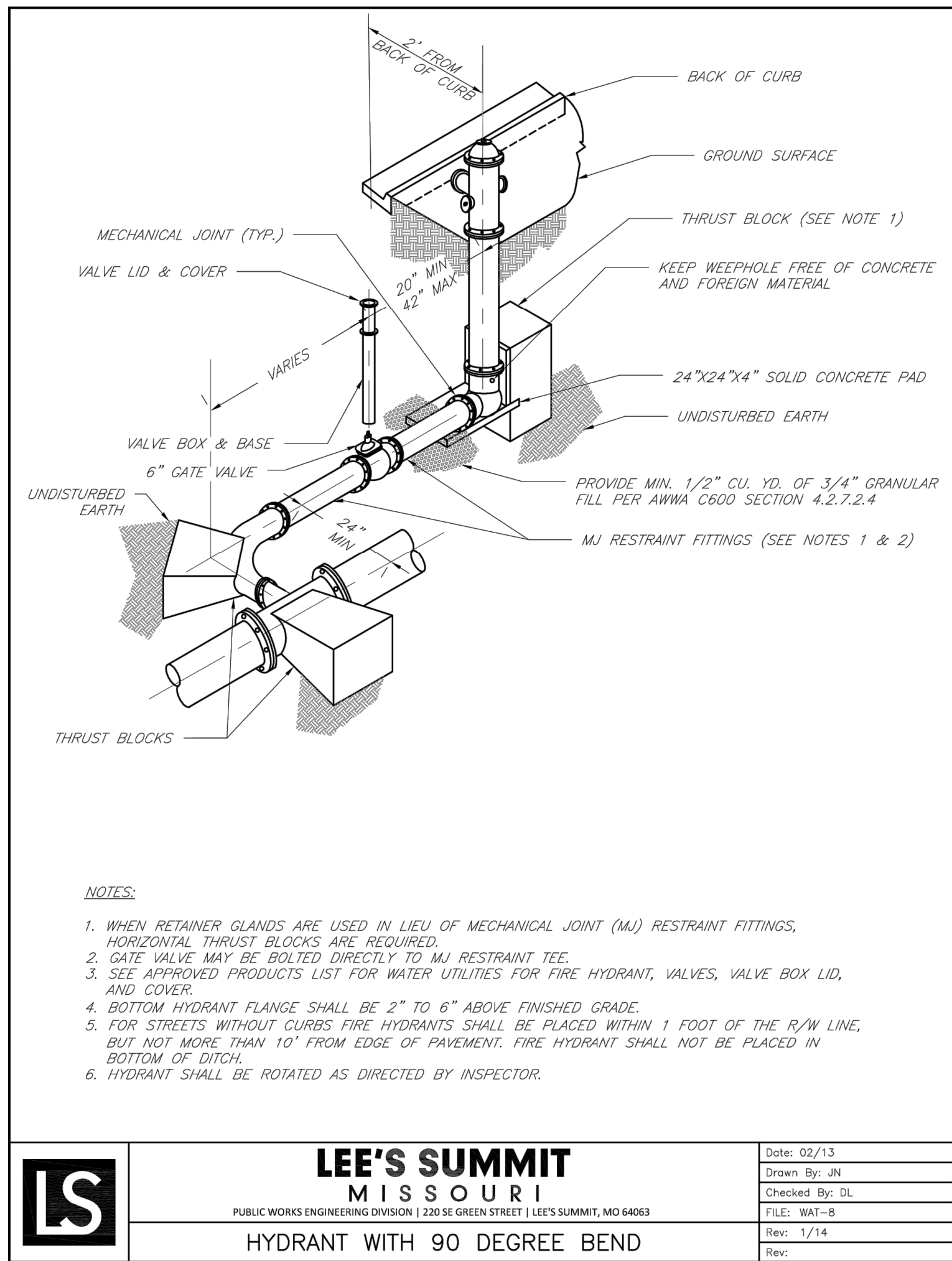
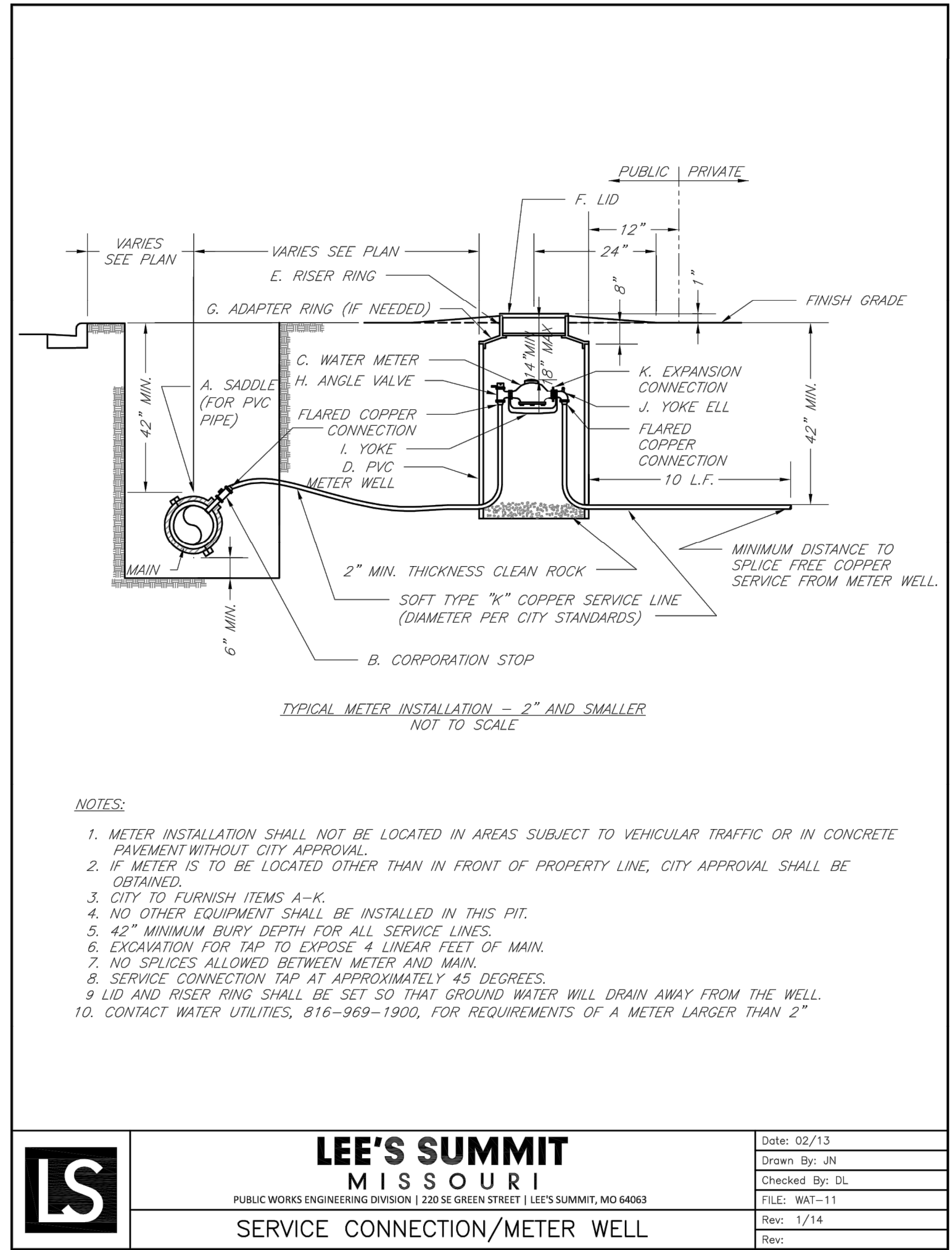
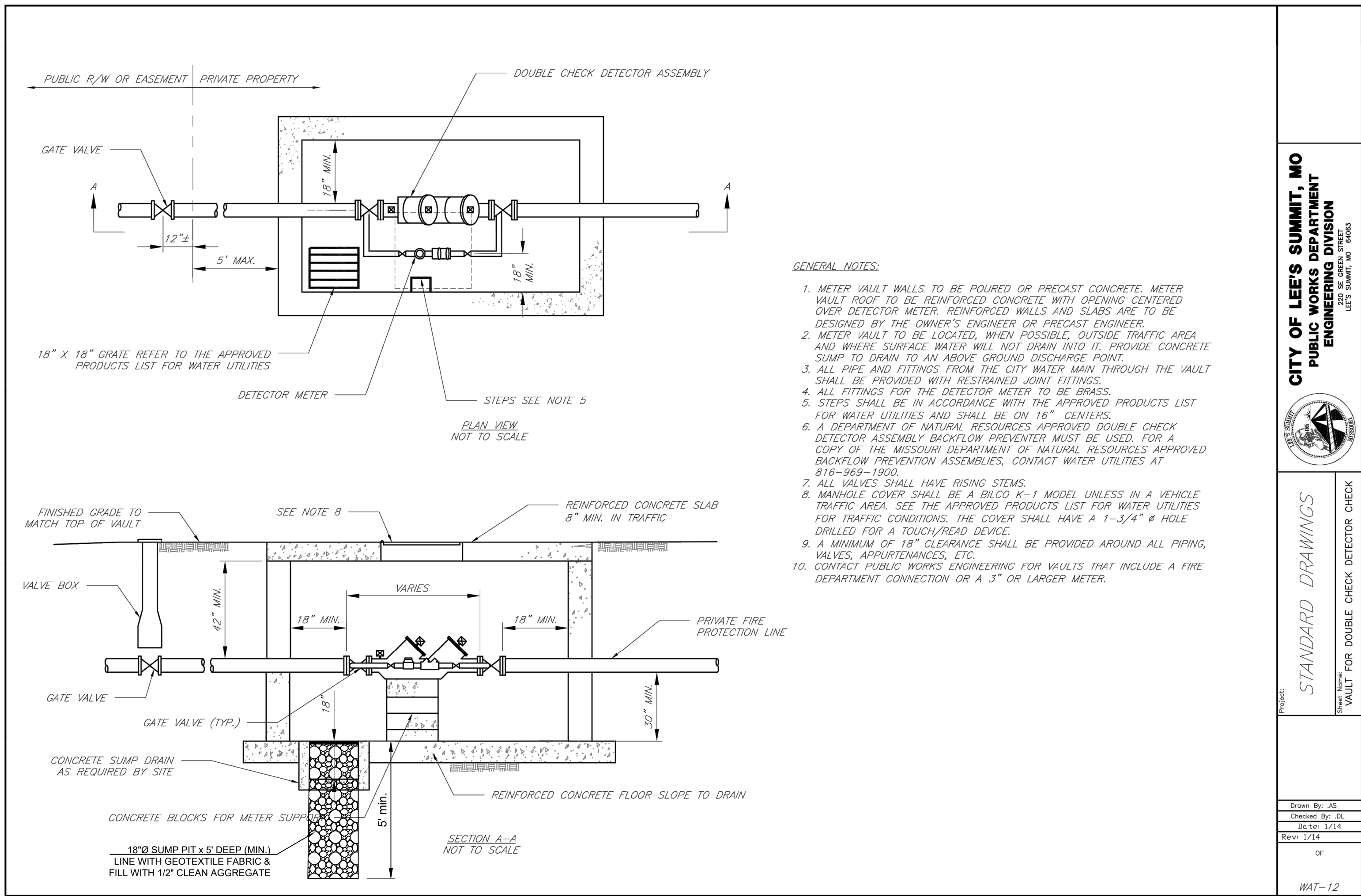
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LAKEWOOD BUSINESS PARK - LOT 35
FINAL DEVELOPMENT PLANS
4101 NE PORT DRIVE
LEE'S SUMMIT, MISSOURI

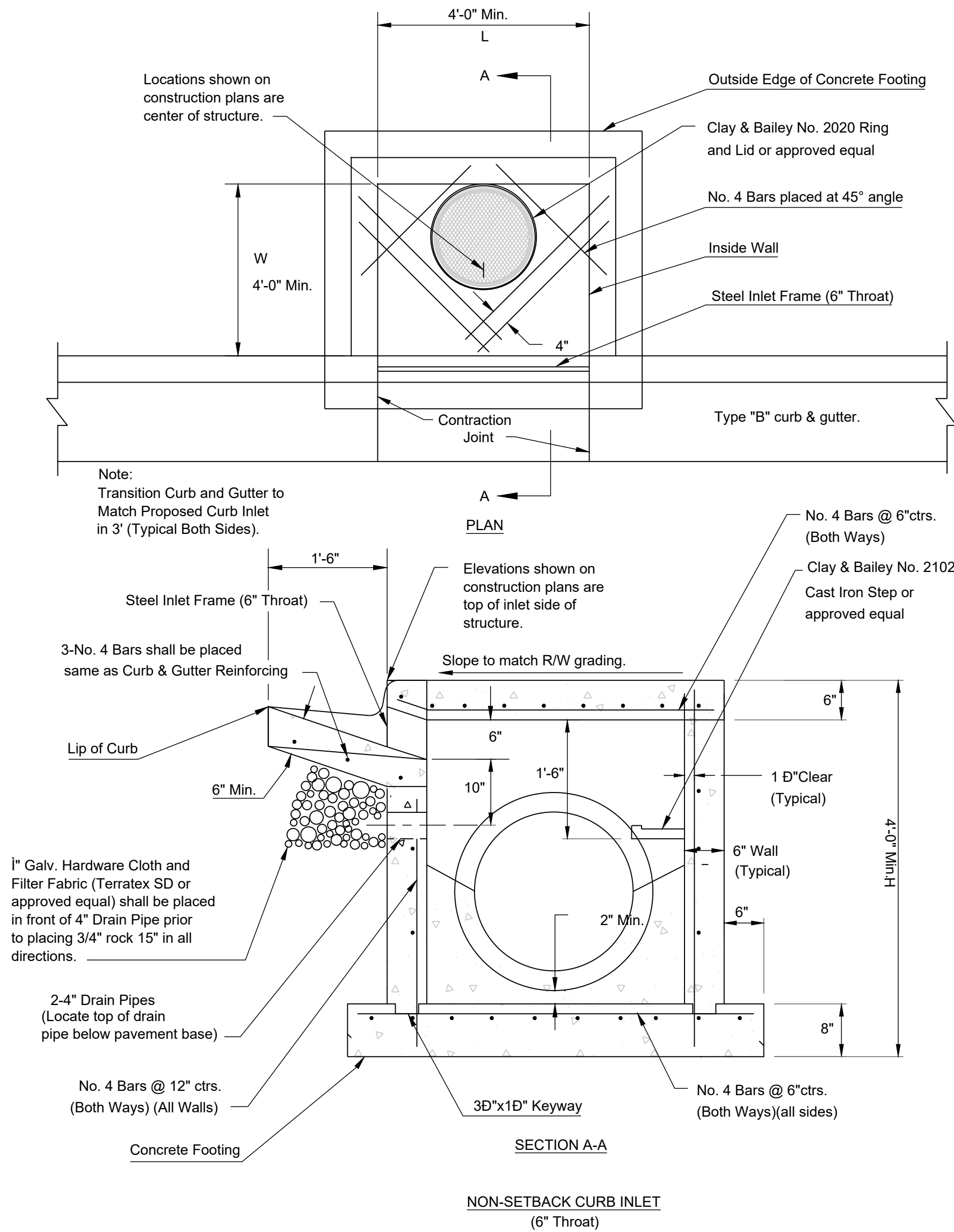
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DRAWN BY:	RPM
CHECKED BY:	JTS
DATE PREPARED:	08/25/2021
PROJ. NUMBER:	20-261

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.

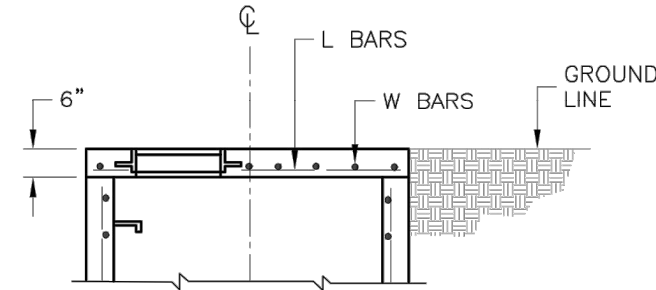
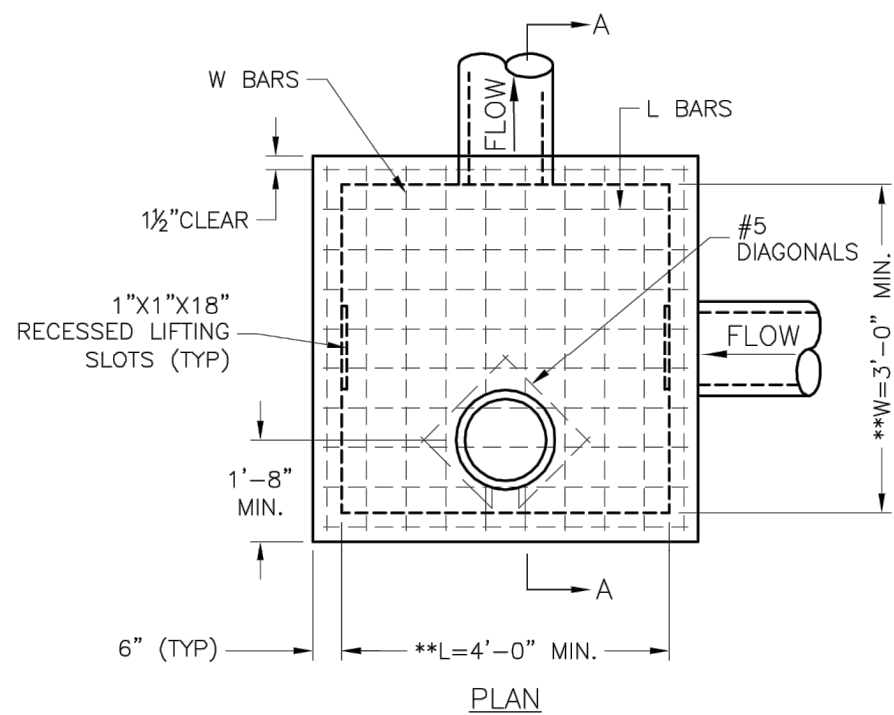
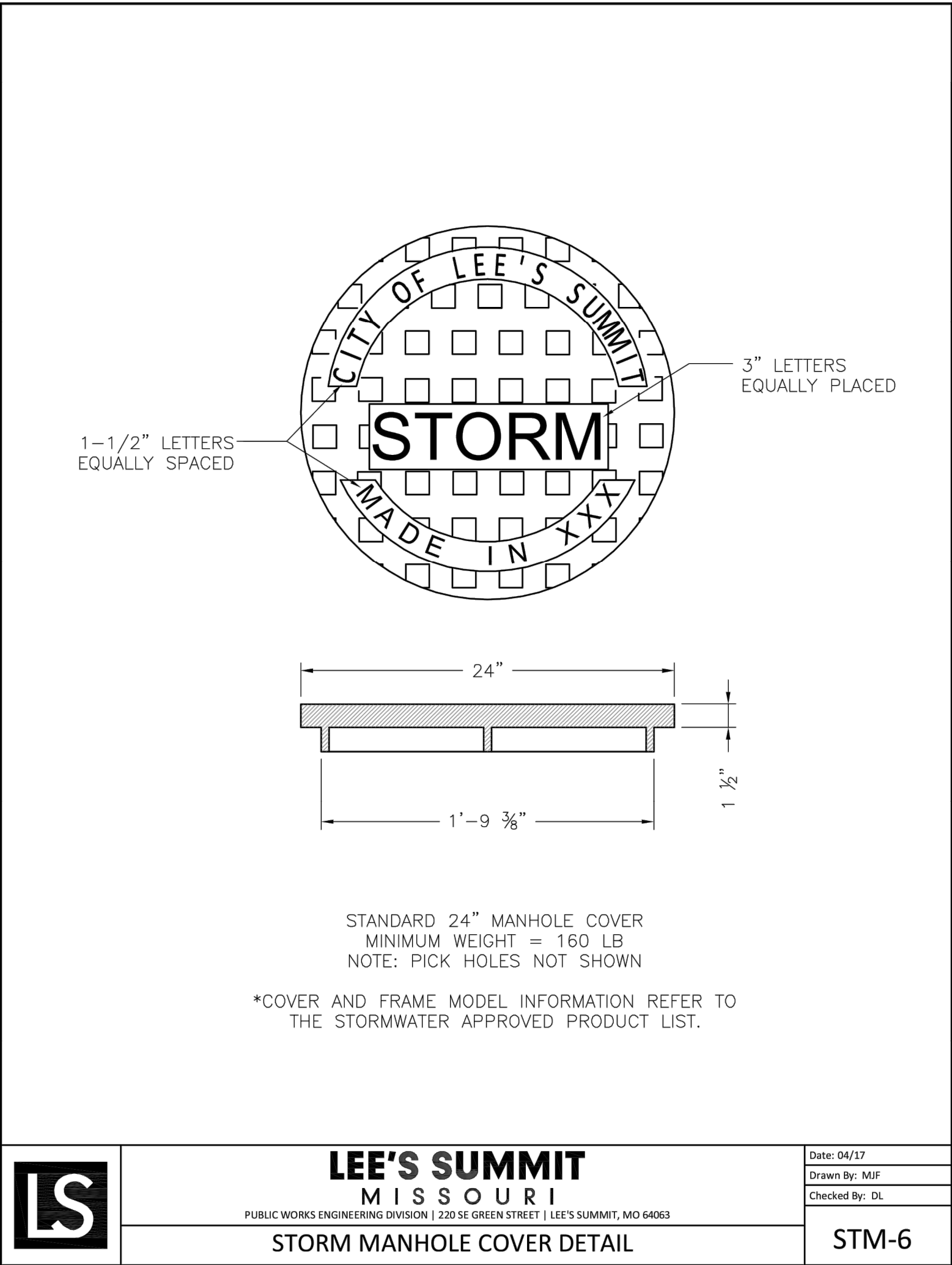
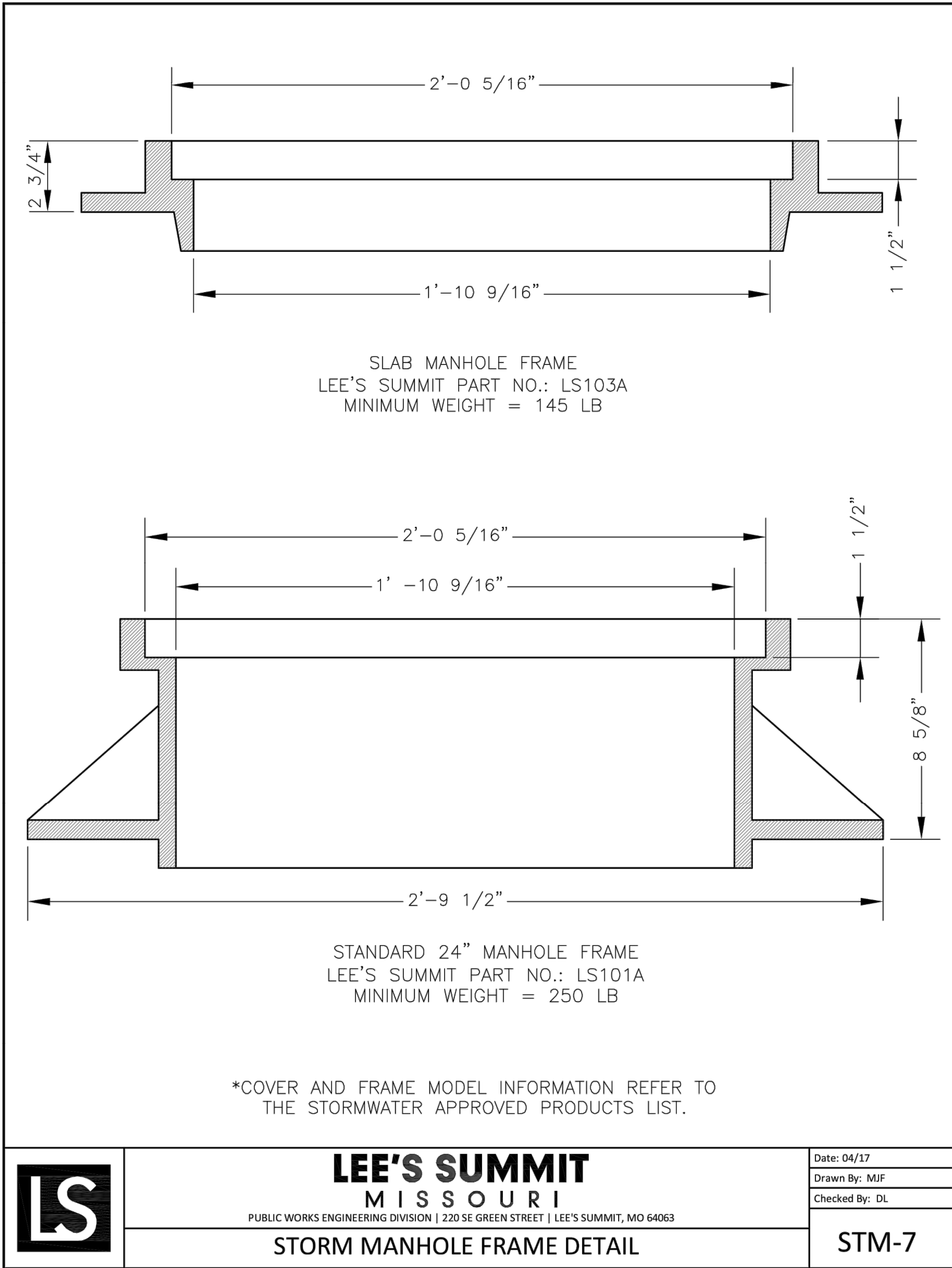
Reinforcing Steel

- 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



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.

LEE'S SUMMIT MISSOURI

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

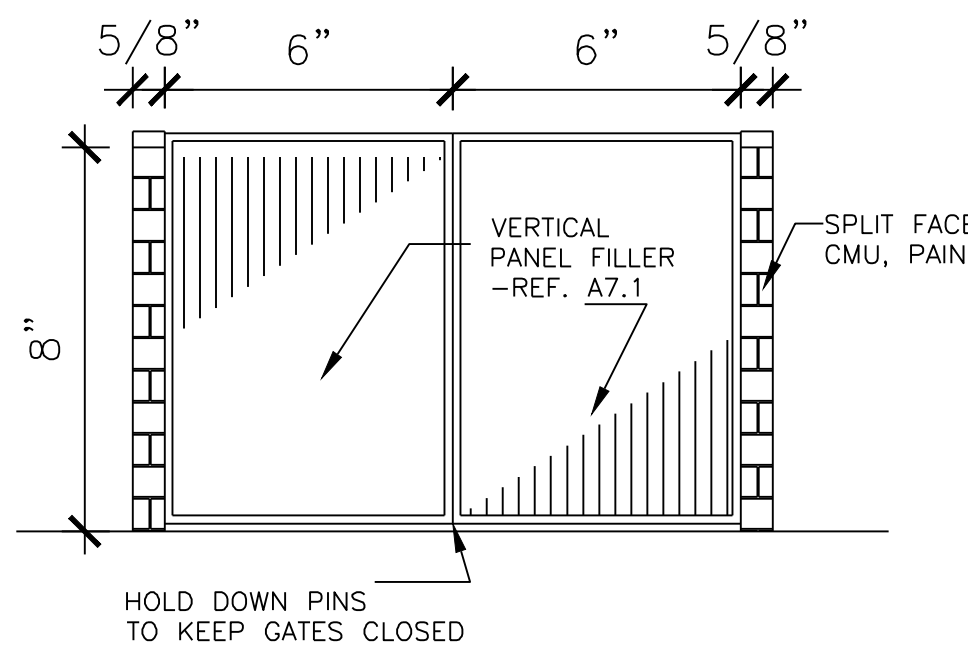
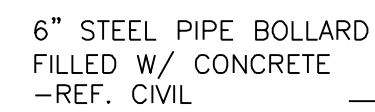
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LAKEWOOD BUSINESS PARK - LOT 35
FINAL DEVELOPMENT PLANS
4101 NE PORT DRIVE
LEE'S SUMMIT, MISSOURI

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SITE DETAILS

SHEET
C7.2



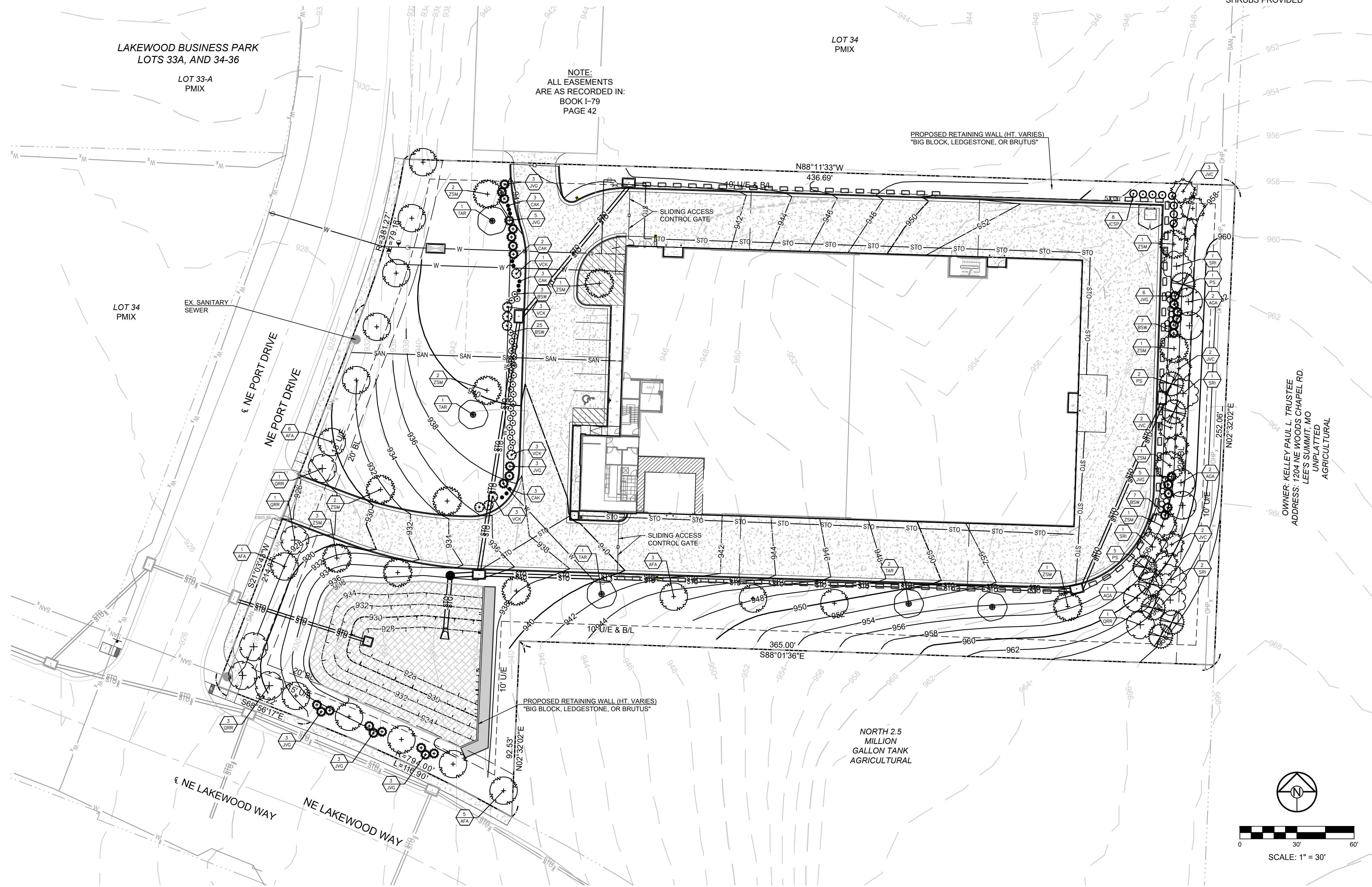
LAKEWOOD BUSINESS PARK - LOT 35
FINAL DEVELOPMENT PLANS
4101 NE PORT DRIVE
LEE'S SUMMIT, MISSOURI

SITE DETAILS

C7.3

	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



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

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

SITE LANDSCAPE REQUIRED

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

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

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

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

6 TREES
6 NEW TREES
10 TREES
11 NEW TREES

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

19 TREES
19 TREES (3 IN BUFFER SCREEN)

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

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

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



PREPARED BY:

SCHLAGEL & ASSOCIATES, P.A.

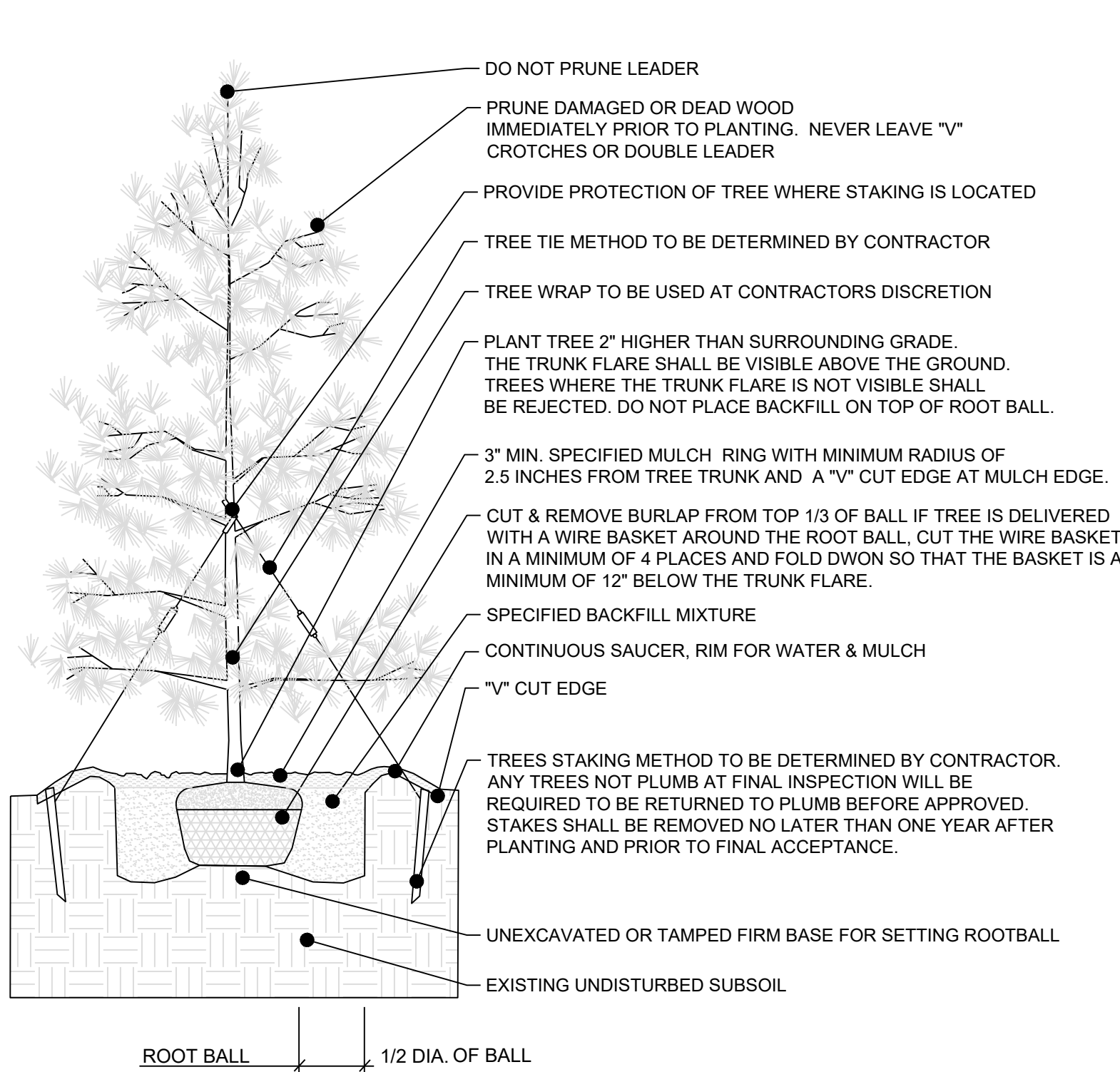
LAKEWOOD BUSINESS PARK - LOT 35
FINAL DEVELOPMENT PLANS
4101 NE PORT DRIVE LEE'S SUMMIT,
MISSOURI

REVISION	DATE	DESCRIPTION
1	06/13/2021	City Comments
2	06/26/2021	City Comments
3		
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LANDSCAPE PLAN

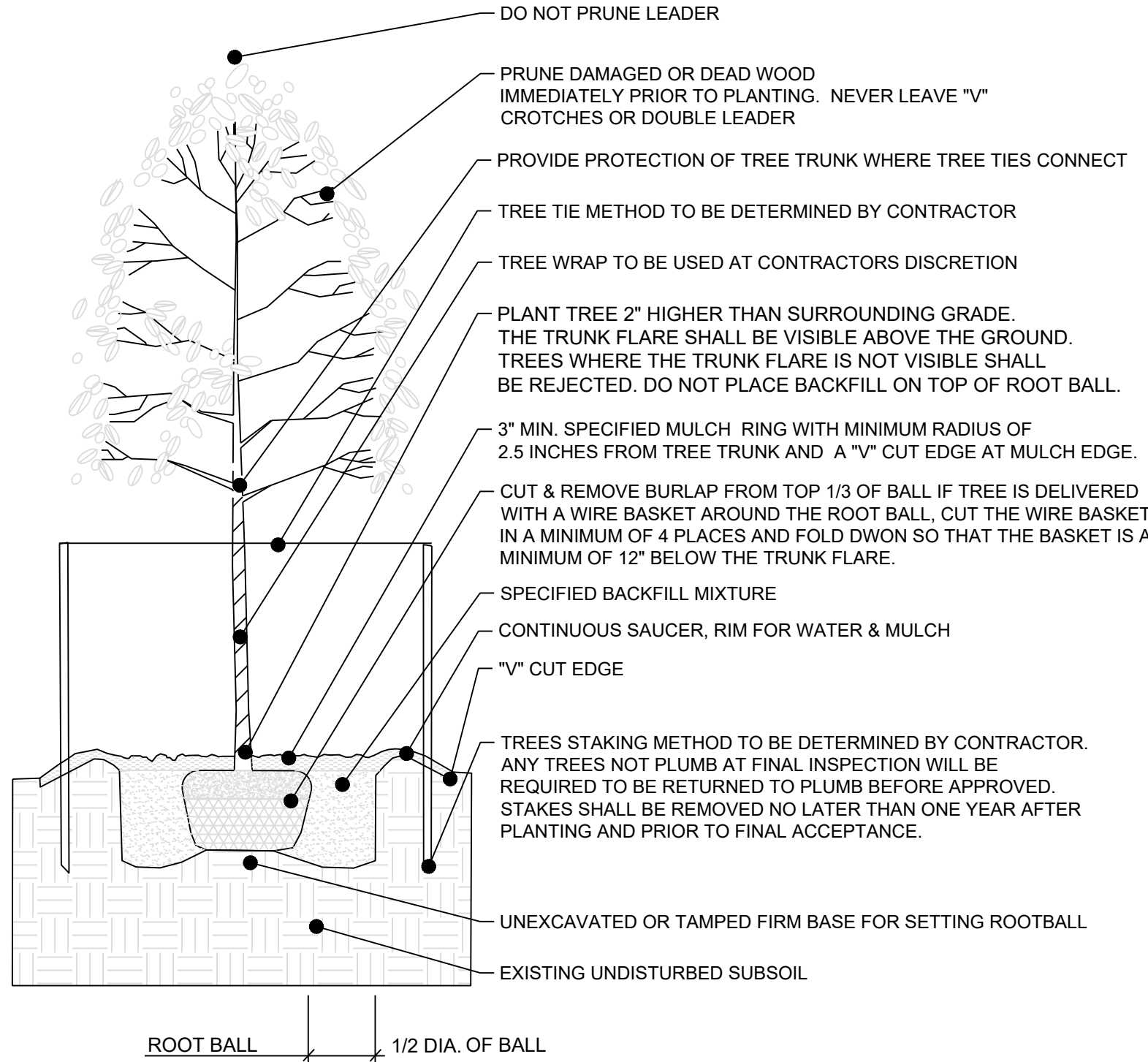
SHEET

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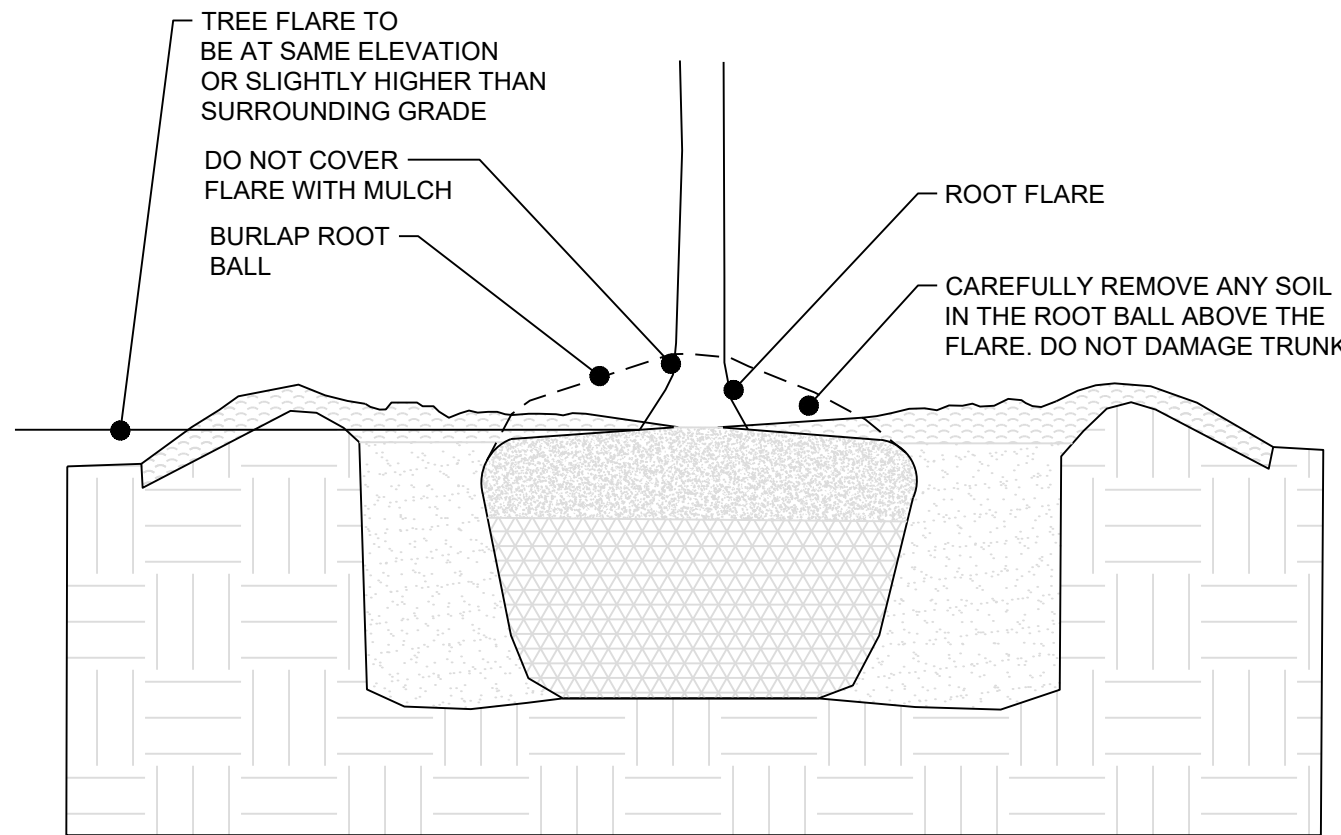
TYP. EVERGREEN PLANTING & GUYING

NO SCALE



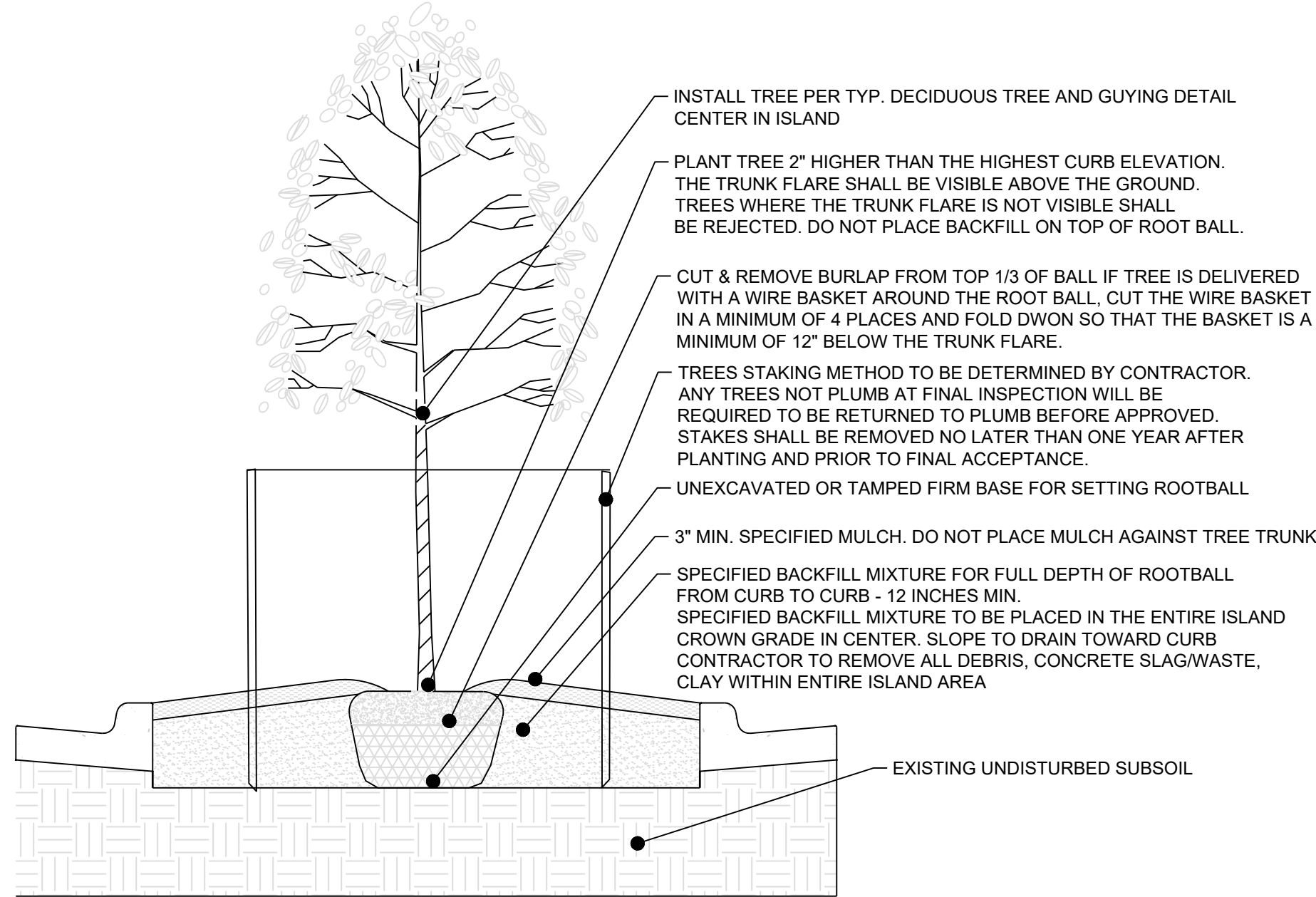
TYP. DECIDUOUS PLANTING & GUYING

NO SCALE



TYP. TREE PLANTING DEPTH

NO SCALE



TYP. PARKING LOT ISLAND PLANTING

NO SCALE

1. 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.
2. 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.
3. All trees shall be nursery-grown.
4. 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:
 - a.) 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.
 - b.) 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.
 - c.) The attachment of the largest branches (scaffold branches) shall be free of included bark.
 - d.) Branches shall be distributed radially around and vertically along the trunk, forming a generally symmetrical crown typical for the species.
 - e.) The attachment of scaffold branches shall be free of included bark.
5. 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 easy.
6. 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.
7. 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.
8. 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.
 - a.) 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.
 - b.) 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.
 - c.) The attachment of the largest branches (scaffold branches) shall be free of included bark.
 - d.) Branches shall be distributed radially around and vertically along the trunk, forming a generally symmetrical crown typical for the species.
 - e.) The attachment of scaffold branches shall be free of included bark.
9. 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 easy.
10. 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).
11. 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).
12. 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.
13. 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.
14. 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.
15. All graft unions, where applicable, shall be completely closed without visible sign of graft rejection. All grafts shall be visible above the soil line.
16. 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.
17. 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:
 - a.) 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.
 - b.) 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.
 - c.) The attachment of the largest branches (scaffold branches) shall be free of included bark.
 - d.) Branches shall be distributed radially around and vertically along the trunk, forming a generally symmetrical crown typical for the species.
 - e.) The attachment of scaffold branches shall be free of included bark.
18. The roots shall be reasonably free of scrapes, broken or split wood.
19. 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.
20. 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.
21. Plants with structural roots on only one side of the trunk (J roots) shall be rejected.
22. 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.
23. The root system shall be free of stem girdling roots over the root collar or kinked roots from nursery production practices.
24. 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.
25. 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.

PREPARED BY:

SCHLAGEL & ASSOCIATES, P.A.

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

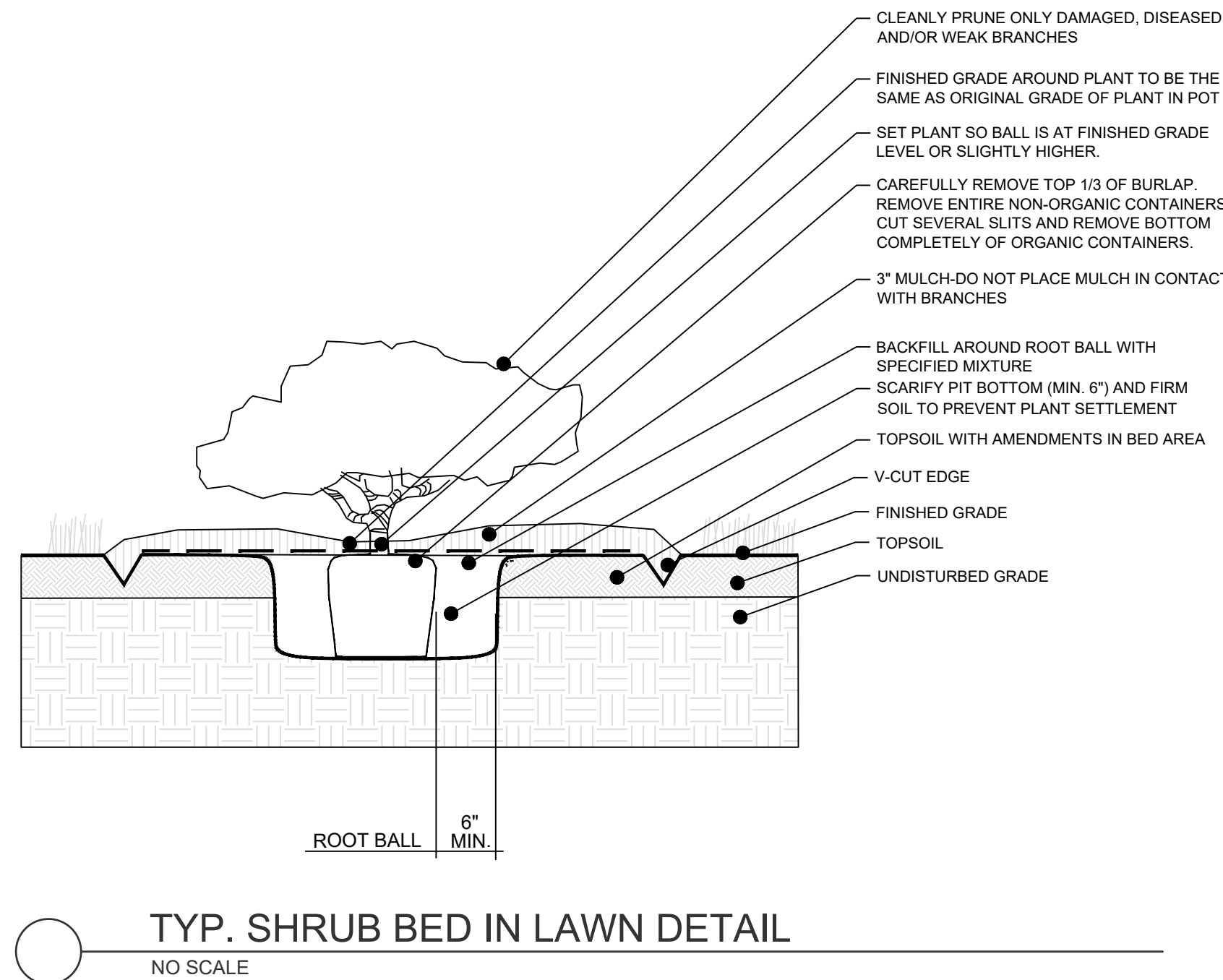
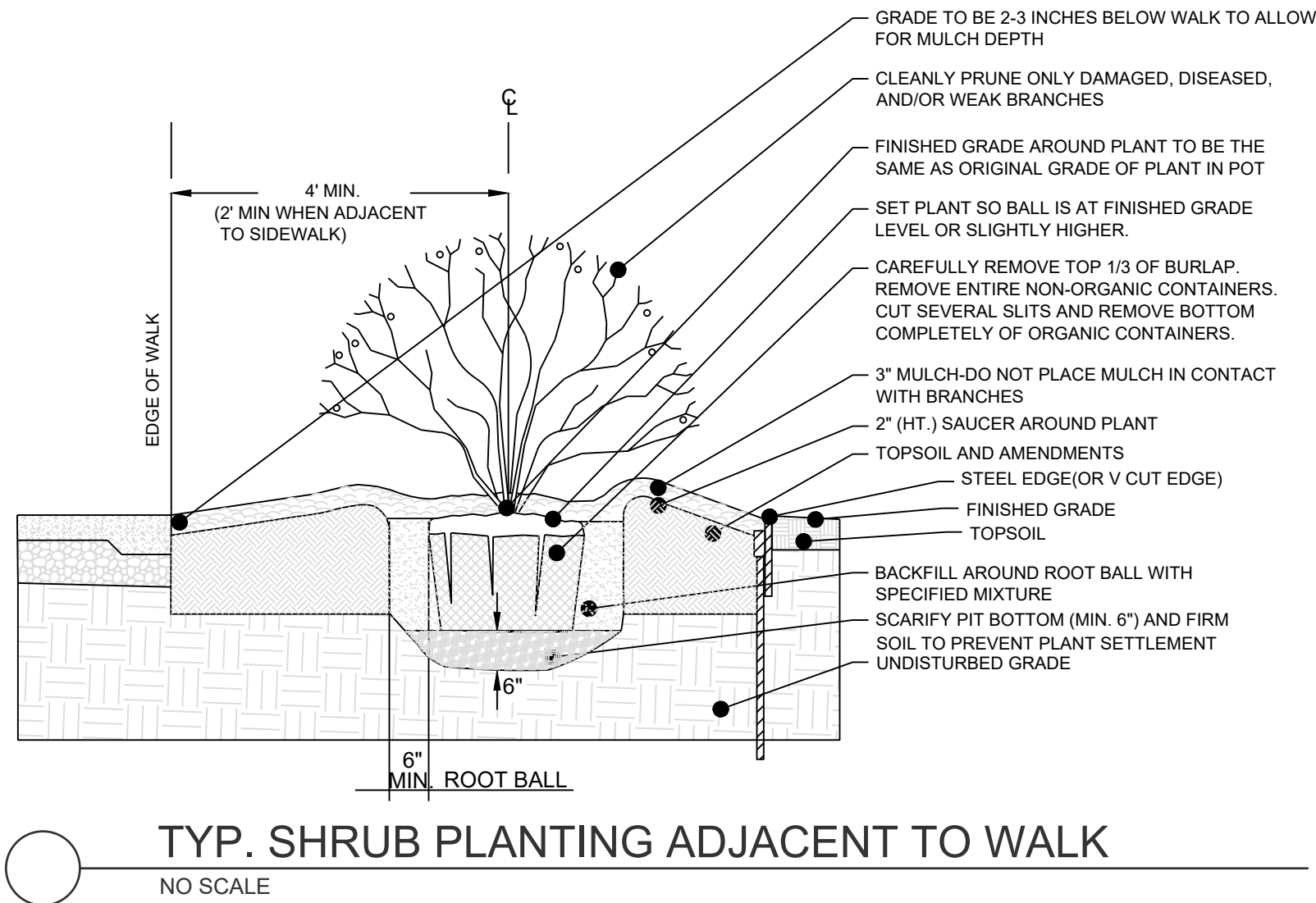
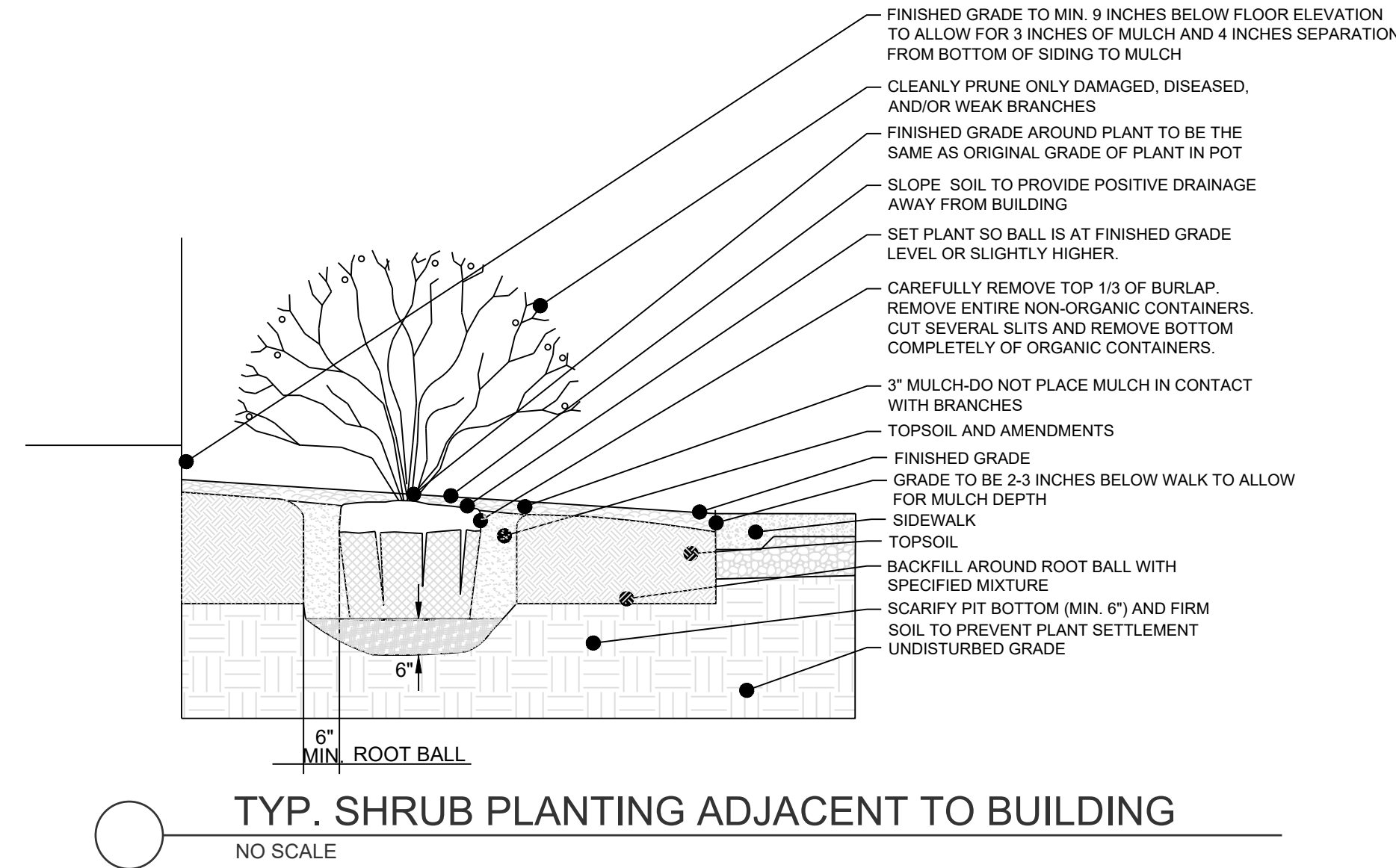
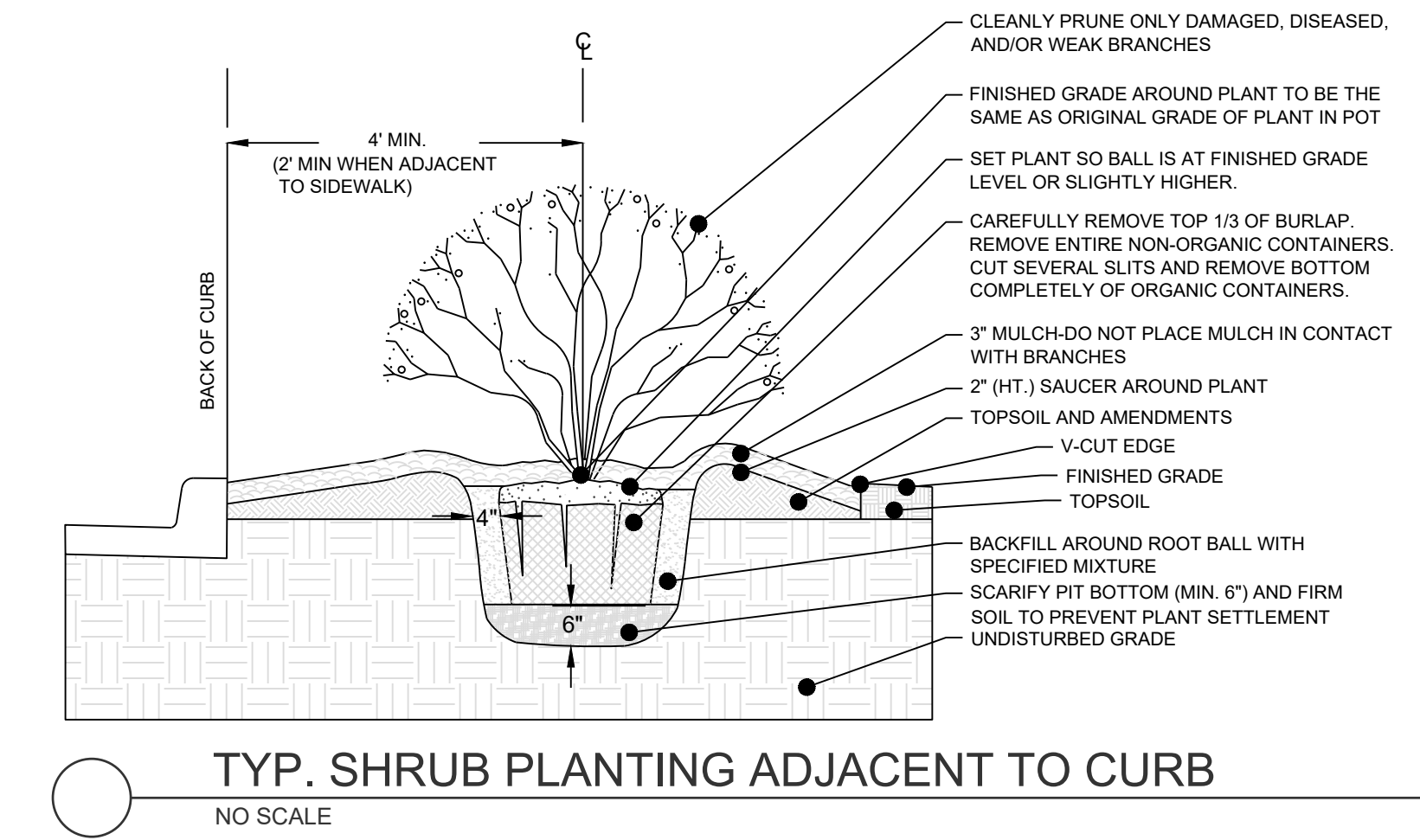
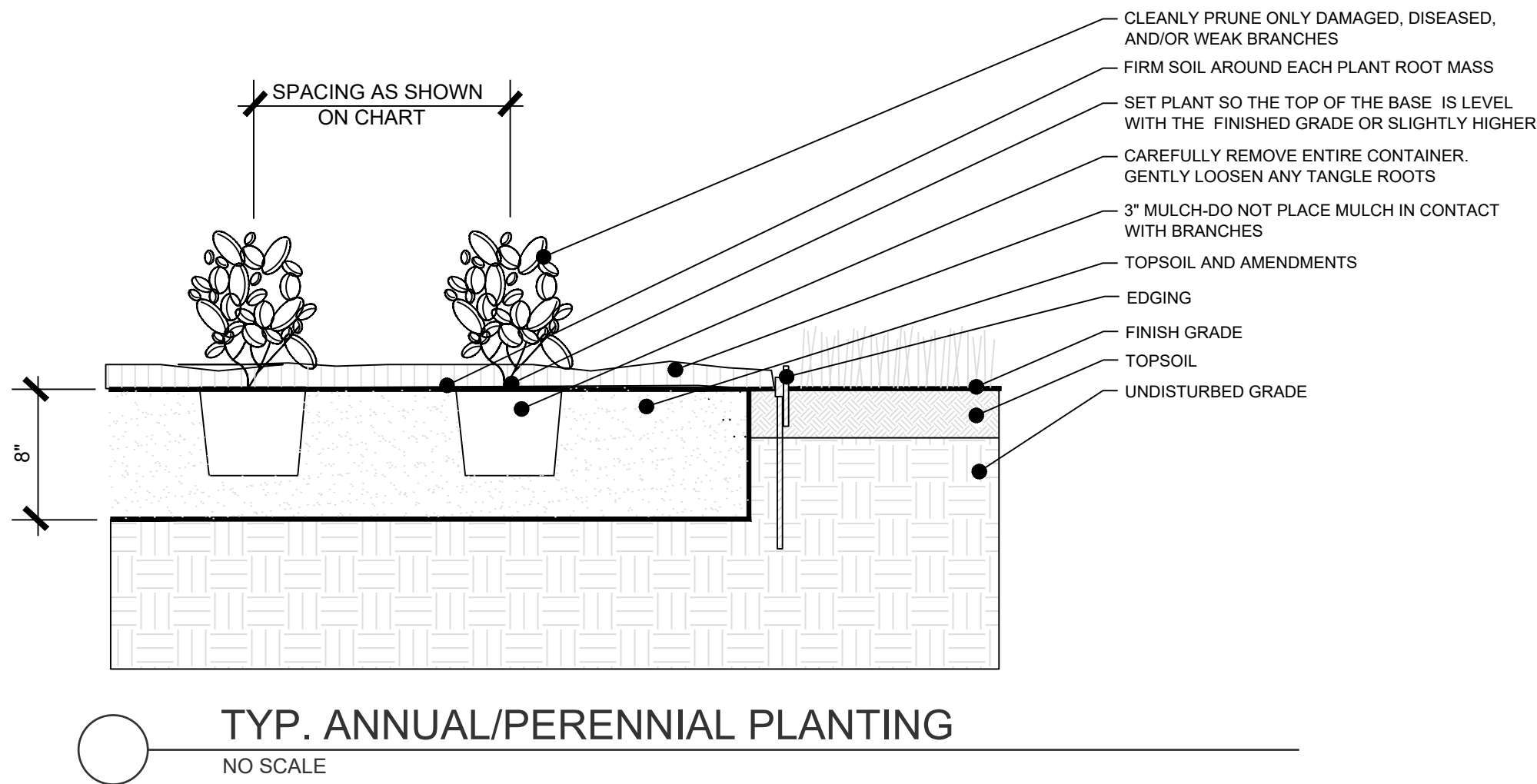
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LANDSCAPE
DETAILS

SHEET

L2.0

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PREPARED BY:

SCHLAGEL & ASSOCIATES, P.A.

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

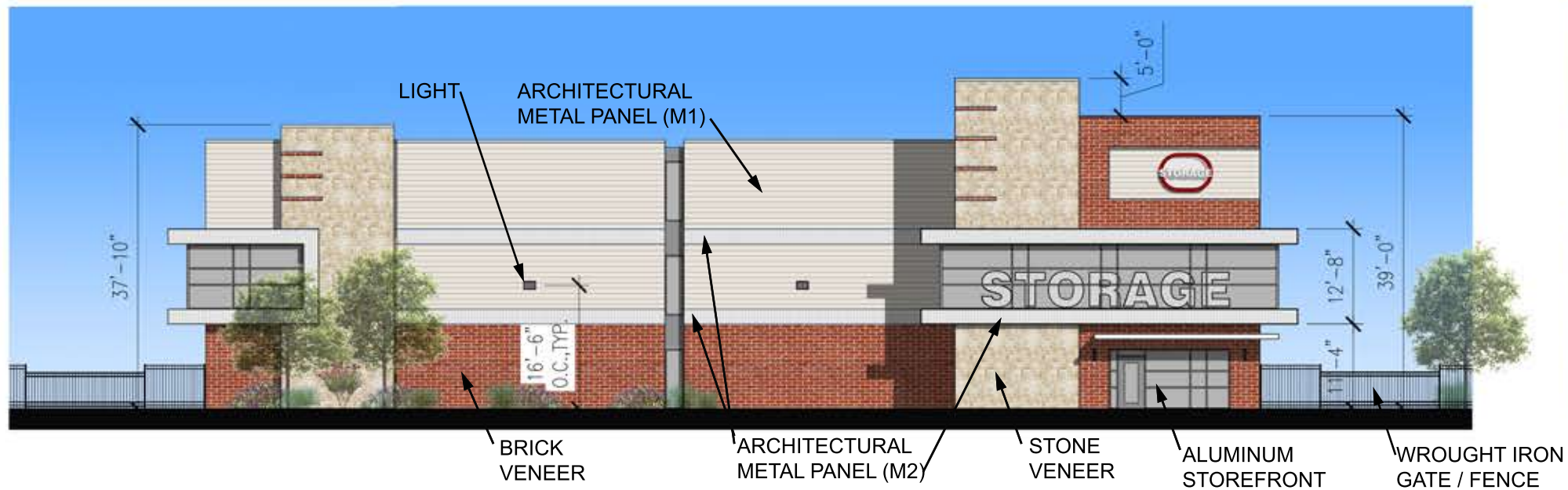
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DRAWN BY:	RPM
CHECKED BY:	JTS
DATE PREPARED:	08/25/2021
PROJ. NUMBER:	20-261

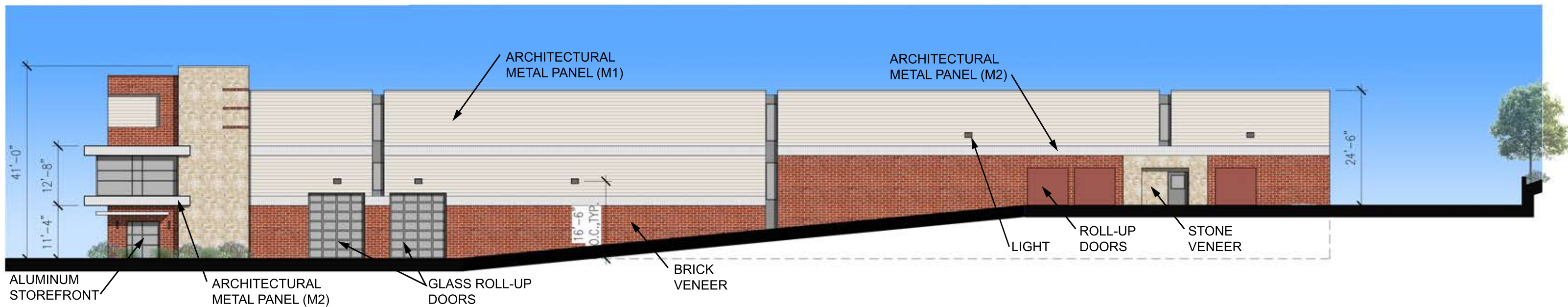
LANDSCAPE
DETAILS

SHEET

L2.1



WEST ELEVATION



SOUTH ELEVATION

EXTERIOR ELEVATIONS

SCALE: 1" = 20'-0" 02.19.2021



LAKEWOOD STORAGE

LEE SUMMIT, MISSOURI

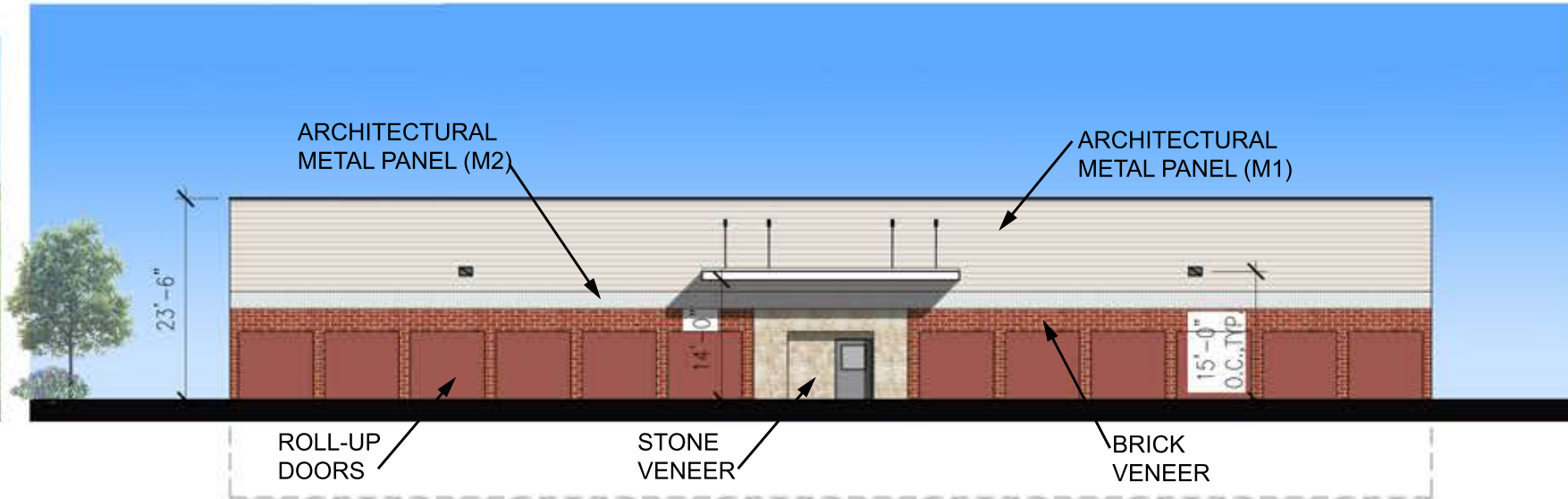
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JEFFREY S. DALLENBACH, AIA
MO REGISTRATION NO. A-2020036988

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DALLENBACH·COLE
ARCHITECTURE

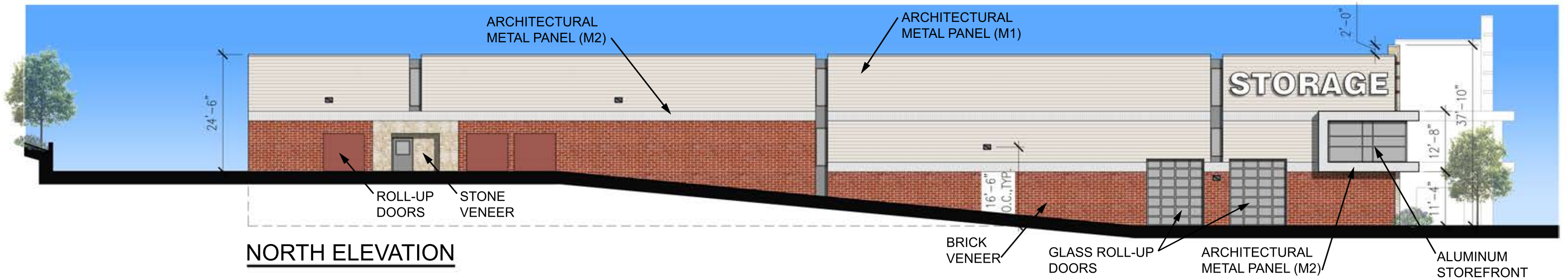
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SAN ANTONIO, TX 78216
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P 210.493.2234



EAST ELEVATION



NORTH ELEVATION



NORTH ELEVATION

EXTERIOR ELEVATIONS

SCALE: 1" = 20'-0" 02.19.2021



LAKEWOOD STORAGE

LEE SUMMIT, MISSOURI

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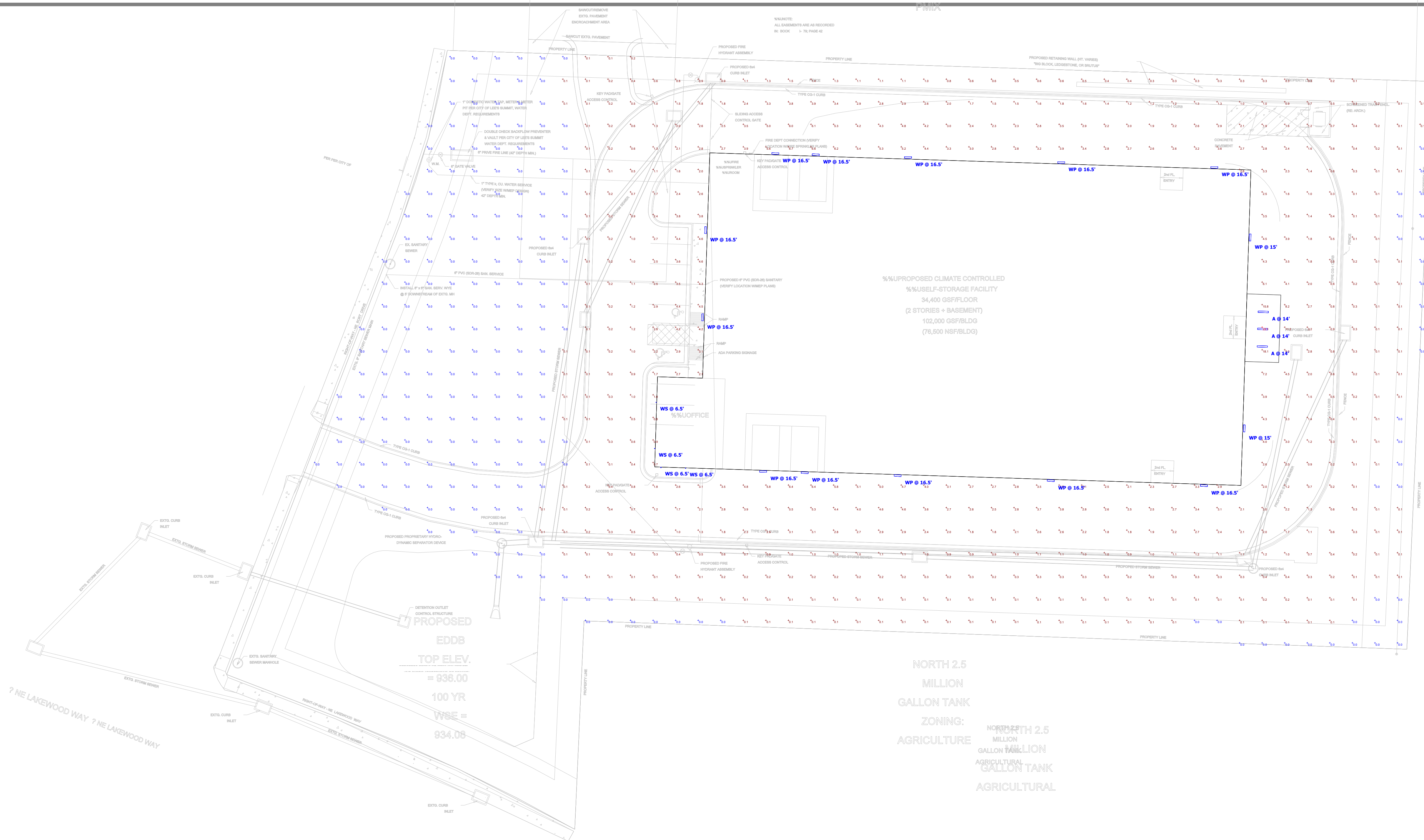
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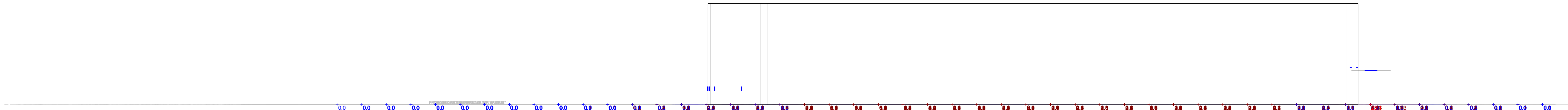








Plan View
Scale - 1" = 25ft



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	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 OC_1000_40K_T2M_MVOLT.ies	7373	0.95	73.2	TYPE III, MEDIUM, BUG RATING: 82 - U0 - G2
	WS	4	VISA LIGHTING	OW5524	VANITY HORIZONTAL MOUNT 19"	LED 3500K -H	1	OW5524-L35K-H.ies	981	0.95	10.4	
	A	3	Lithonia Lighting	VAP 6000LM FST MD 40K 80CRI	VAP LED with BLT Gen 2 Boards		1	VAP_6000LM_FST_MD_40K_80CRI.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.

This document was prepared to convey a concept and not detail a working system. Spectrum Lighting, Inc. makes no representation, express or implied, with respect to the use of the information conveyed in this document, regardless of its format or the means of its distribution. Any specific information regarding the installation must be provided by the manufacturer of the equipment. There is no guarantee or representation to the user as to the accuracy, currency, suitability or reliability of this document for any purpose. The fixture schedule above does not contain the complete fixture nomenclature required for construction or bidding purposes. The fixture nomenclature listed is the photometric file of the base fixture. Please contact Spectrum Lighting Inc., San Antonio for a complete fixture schedule.

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

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.

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ISF36812P29
VISUAL PHOTOMETRIC TOOL

PUBLISH
PAGE 1 OF 3

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	
	Lumens	% Lamp
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	
Forward Light	Lumens	Lumens %
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%

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



Candela Table - Type C

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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
97.5	22	26	40	59	69	59	40	24	20	30	53	85	98	84	52	29	22
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	43	29
142.5	29	30	40	53	61	61	52	36	29	35	48	59	65	65	61	40	29



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

OW5524 – SHINE™


Type: Project:
VisaLighting.com/products/Shine

Order Code: **OW5524** 3500K – **MVOLT** TW9016

MODEL SOURCE VOLTAGE FINISH OPTION(S)

Fill in shaded boxes using information listed below



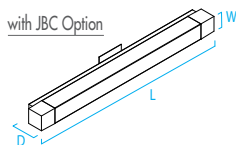
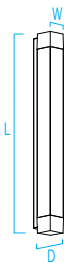
Shine is an ideal outdoor fixture with versatile features including horizontal or vertical mounting, LED sources, 4 size options, and end accents that can be painted in one of 16 standard colors to accent any facade.

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



ADA



XPS



LED



ETL Listed

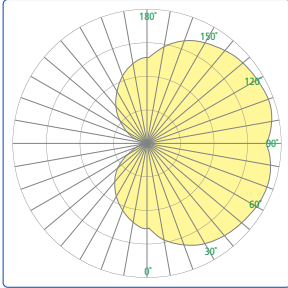


5 Year Warranty

OW5524 – SHINE



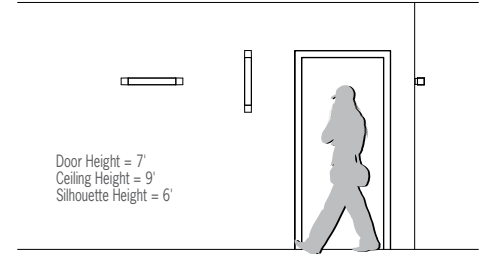
Photometrics



Technical Information

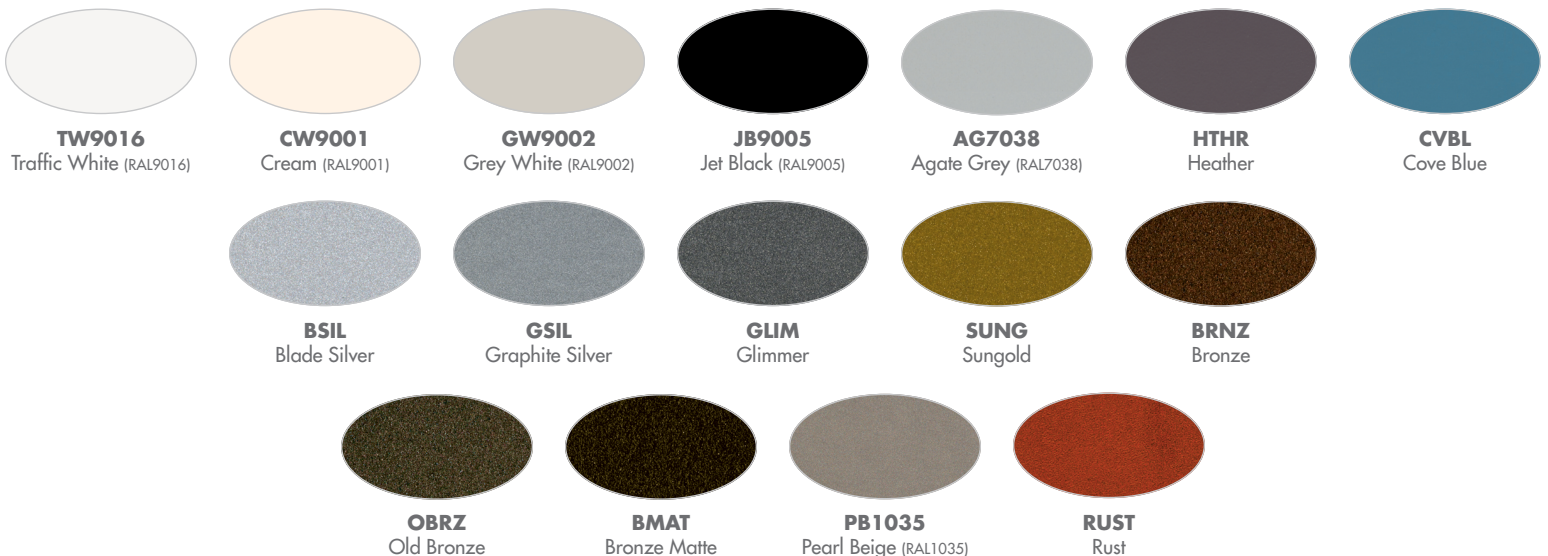
- Integral high power factor electronic power supply
- Modular design for replacement of LED source and power supply
- IP55 rated
- Vertical or horizontal mounting
- Surface mount to 2x4 junction box. Optional junction box cover (JBC option) available for 4" junction box
- Tamper resistant fasteners
- 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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D-Series Size 1 LED Wall Luminaire

Catalog
Number

Notes

Type

M

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)

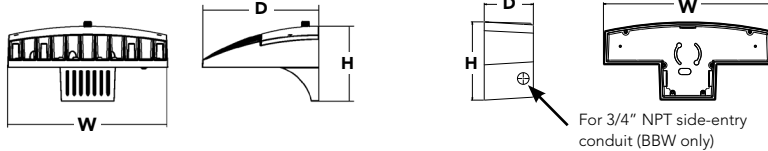
Height: 6-3/8" (16.2 cm)

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 DDBTXD

DSXW1 LED	20C	1000	40K	T2M	MVOLT		
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		DNAXD	
Shipped installed		Finish (required)	
SF Single fuse (120, 277 or 347V) ^{3,10}	BSW Bird-deterrent spikes	DDBXD Dark bronze	DSSXD Sandstone
DF Double fuse (208, 240 or 480V) ^{3,10}	VG Vandal guard	DBLXD Black	DDBTXD Textured dark bronze
HS House-side shield ¹¹	DDL Diffused drop lens	DNAXD Natural aluminum	DBLBXD Textured black
SPD Separate surge protection ¹²		DWHXD White	DNATXD Textured natural aluminum
			DWHGXD Textured white
			DSSTXD Textured sandstone

Accessories

Ordered and shipped separately.

DSXWHS U	House-side shield (one per light engine)
DSXWSW 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.



COMMERCIAL OUTDOOR

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DSXW1-LED
Rev. 10/20/20

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
	530 mA	19W	TFTM	1,411	0	0	1	109	1,515	0	0	1	117	1,525	0	0	1	117	892	0	0	1	69
			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
	700 mA	26W	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
			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
20C (20 LEDs)	350mA	23W	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
	530 mA	35W	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
			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
	700 mA	46W	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
			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
	1000 mA	73W	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
			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
	530 mA	35W	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
			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
	700 mA	46W	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

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

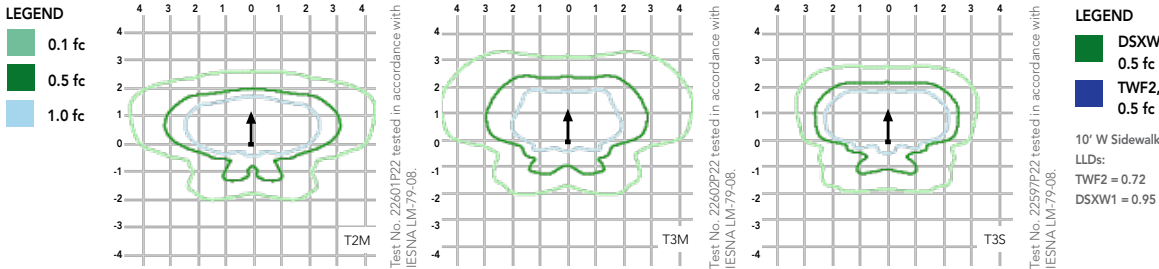
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
*PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*for use with site wide Dusk to Dawn control

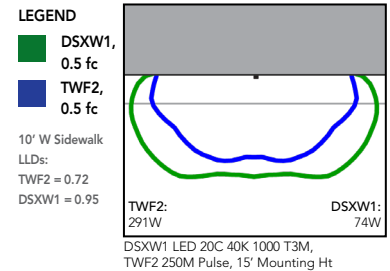
Photometric Diagrams

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

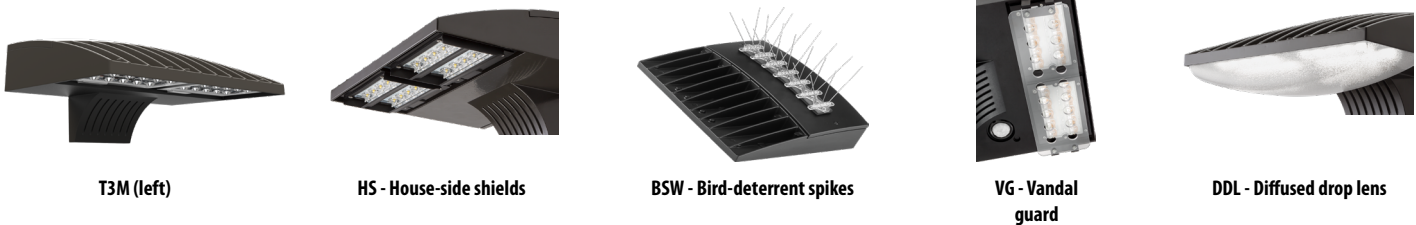
Isfootcandle plots for the DSXW1 LED 20C 1000 40K. Distances are in units of mounting height (15').



Distribution overlay comparison to 250W metal halide.



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 at 25 °C. Specifications subject to change without notice.



COMMERCIAL OUTDOOR

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DSXW1-LED
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