

SITE DEVELOPMENT PLAN

for

LADUE HORTON WATKINS HIGH SCHOOL

PARKING EXPANSION



BRANDON A. HARP, P.E. E-28650
 PROFESSIONAL ENGINEER
 CEDC LICENSE NO. 250.3004674

Original Issue Date:
09-25-24

Revisions:
 No. Date
 CITY COMMENTS 11-11-2024

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NEW PARKING
 Ladue Horton Watkins High School
 1201 S. Warson Road
 St. Louis, Missouri 63124

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Project No:
CEDC 2493

Drawing Title:
Title Sheet

Drawn:
 Checked:
 Drawing No.

SDP1

GENERAL NOTES

- ALL UTILITIES SHOWN HAVE BEEN LOCATED FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED. THE CONTRACTOR SHALL BE ON RECORD WITH THE MISSOURI ONE CALL SYSTEM. ALL PROPOSED UTILITIES SHALL BE UNDERGROUND.
- ALL ELEVATIONS ARE BASED ON BENCHMARK SHOWN.
- BOUNDARY AND TOPOGRAPHIC SURVEY BY MARLER SURVEYING COMPANY.
- ALL ON-SITE MATERIALS AND METHODS OF CONSTRUCTION TO MEET THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF LADUE AND MSD.
- PROPOSED CONTOURS SHOWN ARE FINISHED ELEVATIONS ON PAVED AREAS.
- ALL GRADING AND DRAINAGE TO BE IN CONFORMANCE WITH THE CITY OF LADUE AND MSD.
- SIDEWALKS ALONG THE ACCESSIBLE ROUTE SHALL NOT HAVE A SLOPE EXCEEDING 1% (20" H). SLOPES GREATER THAN 1% (20" H) MUST BE DESIGNED AS A RAMP. SIDEWALKS TO BE CONSTRUCTED TO ST. LOUIS COUNTY ADA STANDARDS.
- SIDEWALKS, CURB RAMPS, RAMPS AND ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT APPROVED "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG) ALONG WITH THE REQUIRED GRADES, CONSTRUCTION MATERIALS, SPECIFICATIONS AND SIGNAGE. IF ANY CONFLICT OCCURS BETWEEN THE ADA GUIDELINES AND THE INFORMATION ON THE PLANS, THE ADA GUIDELINES SHALL TAKE PRECEDENCE AND THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER PRIOR TO ANY CONSTRUCTION.
- ADEQUATE TEMPORARY OFF-STREET PARKING FOR CONSTRUCTION EMPLOYEES SHALL BE PROVIDED. PARKING ON NON-SURFACED AREAS SHALL BE PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEES' VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVEWAY CONDITIONS.
- CONTRACTOR TO COORDINATE CONSTRUCTION PARKING WITH OWNER. NO PARKING ALLOWED IN RIGHT OF WAY.
- ALL SEWER CONSTRUCTION AND MATERIALS TO BE IN ACCORDANCE WITH THE METROPOLITAN ST. LOUIS SEWER DISTRICT STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWER AND DRAINAGE FACILITIES, (LATEST EDITION).
- SETBACKS (BUILDINGS & STRUCTURES)
 FRONT = 40 FT.
 SIDE = 25 FT.
 REAR = 25 FT.
- NO ON-SITE ILLUMINATION SOURCE SHALL BE SO SITUATED THAT LIGHT IS CAST DIRECTLY ON ADJOINING PROPERTIES OR ROADWAYS. ILLUMINATION LEVELS SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF LADUE. THE SITE LIGHTING STANDARDS AND LOCATIONS SHALL BE REVIEWED AND APPROVED PER THE REQUIREMENTS OF THE CITY OF LADUE. LIGHTING DESIGN SUBJECT TO FINAL DESIGN OF LIGHTING ENGINEER.
- LANDSCAPING SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF LADUE.
- ALL PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED TO THE CITY OF LADUE STANDARDS.
- PER ORDINANCE NO. 2333 (eff. 3-27-23)
 CONSTRUCTION HOURS ARE MON-FRI, 7AM-6PM AND SAT, 9AM-5PM. CONSTRUCTION IS PROHIBITED DURING ALL OTHER TIMES, AS WELL AS ON LEGAL HOLIDAYS, AND SUNDAYS.
- PER ORDINANCE NO. 2326, EXHIBIT A, SEC. 102-10-CITY ARBORIST (eff. 2-21-23)
 THE CITY SHALL HAVE A CERTIFIED ARBORIST EITHER ON STAFF OR AS APPOINTED BY THE MAYOR FOR THE PURPOSE OF REVIEWING TREE REMOVAL PERMIT APPLICATIONS AND TREE REPLACEMENT PLANS. ANY PERMIT SUBMITTED WITH FIVE (5) OR MORE TREES PROPOSED FOR REMOVAL, WHEN TWENTY (20) PERCENT OF THE TREES ARE PROPOSED TO BE REMOVED ON THE PROPERTY, WHEN TWENTY (20) PERCENT OR MORE OF ANY WOODLAND IS PROPOSED TO BE CLEARED ON THE PROPERTY, OR WHEN ANY LANDMARK TREE IS PROPOSED FOR REMOVAL, SHALL REQUIRE THE REVIEW OF THE REVEGETATION, OPEN SPACE AND TREE ADVISORY COMMITTEE IN ADDITION TO THE REVIEW BY THE CITY ARBORIST. THIS SECTION SHALL APPLY TO PUBLIC PROPERTY, PRIVATE PROPERTY, OR PUBLIC RIGHT-OF-WAY.

AREA CALCULATIONS

Existing Site Coverage (approved 2018):		REQUIRED:		PARKING CALCULATIONS	
Building	5.67 Acres	1 SPACE FOR EVERY CLASSROOM AND OFFICE		16 YEARS OF AGE.	
Pavement	9.20 Acres	AND 1 SPACE FOR EVERY 4 STUDENTS OVER			
Artificial Field	0.69 Acres				
Green Space	14.94 Acres	PROVIDED: TOTAL # OF SPACES	=	633 SPACES	(INC.) 16 ADA
Total Site	30.50 Acres				
Proposed Site Coverage (2024):					
Building	5.67 Acres	18.13%			
Pavement	8.61 Acres	31.37%			
Artificial Field	0.69 Acres	2.21%			
Green Space	15.10 Acres	48.29%			
Total Site	31.27 Acres				

NOTE:
 CIVIL ENGINEERING DESIGN CONSULTANTS, INC. AND THE UNDERSIGNED ENGINEER HAVE NO RESPONSIBILITY FOR SERVICES PROVIDED BY OTHERS TO IMPLEMENT THE IMPROVEMENTS SHOWN ON THIS PLAN AND ALL OTHER DRAWINGS WHERE THE UNDERSIGNED ENGINEER'S SEAL APPEARS. THE CONSTRUCTION MEANS, METHODS & MATERIALS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CIVIL ENGINEERING DESIGN CONSULTANTS, INC. HAS NO RESPONSIBILITY TO VERIFY FINAL IMPROVEMENTS AS SHOWN ON THIS PLAN UNLESS SPECIFICALLY ENGAGED AND AUTHORIZED TO DO SO BY THE OWNER OR CONTRACTOR.

UTILITY NOTE:
 UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND INFORMATION AND THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING OR CONSTRUCTION OF CONSTRUCTION IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo.

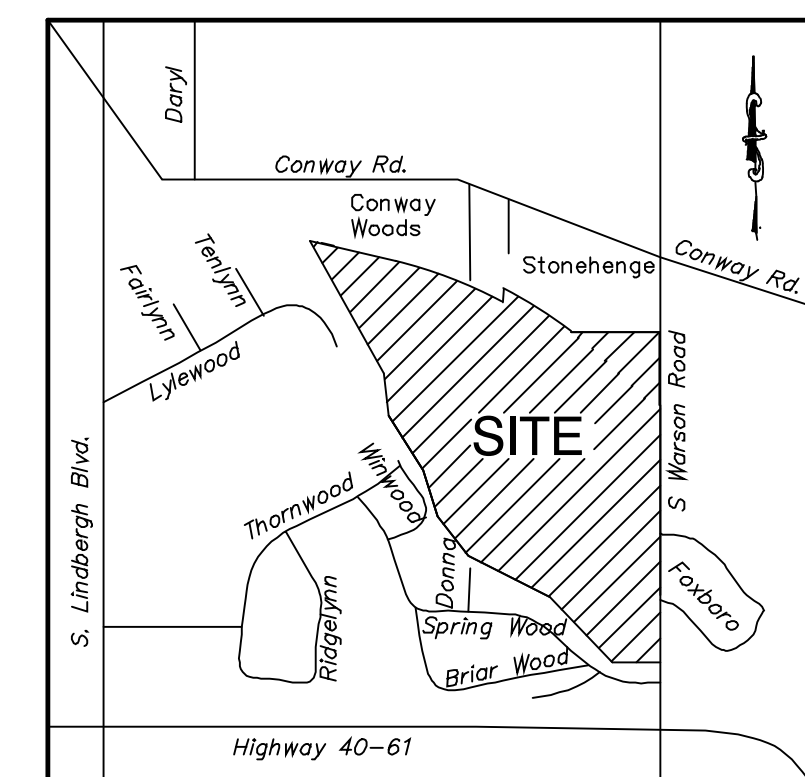
- NOTES TO CONTRACTOR:**
- CONTRACTOR/SUBCONTRACTOR SHALL INVESTIGATE, ASCERTAIN AND CONFORM TO ANY AND ALL PERMIT REQUIREMENTS OF THE (ANY) VARIOUS AFFECTED UTILITY COMPANIES AND/OR REGULATORY AGENCIES WITH REGARD TO MAKING CONNECTIONS TO, OR CROSSINGS OF, THEIR FACILITIES; WORKING WITHIN THEIR RIGHT-OF-WAY OR EASEMENTS; INSPECTIONS AND ASSOCIATED MONETARY CHARGES; AND/OR SPECIAL BACKFILL REQUIREMENTS, SUCH INVESTIGATION TO INCLUDE, BUT NOT LIMITED TO, THE MAKING OF NECESSARY APPLICATIONS AND PAYMENTS OF ALL REQUIRED FEES.
 - THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS OR PROFILES ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR/SUBCONTRACTOR TO VERIFY THE FIELD LOCATIONS, ANTICIPATED CLEARANCES AND THE EXISTENCE OF ANY FACILITIES NOT SHOWN HEREON, AS PART OF THE INVESTIGATIONS IN THE PARAGRAPH ABOVE.
 - THE DEMOLITION PLAN IS FOR ILLUSTRATION OF THE GENERAL DEMOLITION ANTICIPATED FOR THIS PARTICULAR SITE. THE DEMOLITION PLAN DOES NOT REPRESENT ALL CONDITIONS THAT MAY BE ENCOUNTERED DURING DEMOLITION/CONSTRUCTION. THE CONTRACTOR SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH THE SITE AND THE DEMOLITION/CONSTRUCTION REQUIREMENTS PRIOR TO BIDDING. THE INTENT OF THE DEMOLITION IS TO PROVIDE A CLEAN STABLE SITE, READY FOR CONSTRUCTION OF THE PROJECT IN CONFORMANCE WITH THE CONSTRUCTION PLANS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS THAT ARE IN KEEPING WITH THIS INTENT.
 - PRIOR TO OBTAINING A CONSTRUCTION PERMIT FROM THE METROPOLITAN ST. LOUIS SEWER DISTRICT, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE THE DISTRICT WITH A COPY OF AN EXECUTED CERTIFICATE OF INSURANCE INDICATING THAT THE PERMITTEE HAS OBTAINED AND WILL CONTINUE TO CARRY COMMERCIAL GENERAL LIABILITY AND COMPREHENSIVE AUTO LIABILITY INSURANCE. THE REQUIREMENTS AND LIMITS SHALL BE AS STATED IN THE "RULES AND REGULATIONS AND ENGINEERING DESIGN REQUIREMENTS FOR SANITARY AND STORMWATER DRAINAGE FACILITY", SECTION 10.090 (ADDENDUM).

NOTE:
 The underground utilities have been plotted from available sources and their locations must be considered approximate only. The verification of the actual locations of all underground utilities, either shown or not shown on this drawing, shall be the responsibility of the contractor and shall be located prior to grading or construction of improvements.

MISSOURI ONE CALL TICKET NUMBER 180310466



Lot 4 of Denny Tract, a Subdivision in the County of St. Louis, Missouri, according to the plat thereof recorded in Plat Book 70, Page 24 of the St. Louis County Records.



PROPERTY DATA

OWNER	=	LADUE SCHOOL DISTRICT
SITE ADDRESS	=	1201 S. WARSON ROAD LADUE, MISSOURI 63124
LOCATOR NUMBER	=	19M240299
SITE AREA	=	30.54 +/- ACRES
EXISTING ZONING	=	"D" ~ RESIDENTIAL DISTRICT "F" ~ FLOODPLAIN DISTRICT
FIRE DISTRICT	=	LADUE FIRE PROTECTION DISTRICT
SCHOOL DISTRICT	=	LADUE SCHOOL DISTRICT
SEWER DISTRICT	=	METROPOLITAN ST. LOUIS SEWER DISTRICT
WATER SHED	=	DEER CREEK

INDEX OF SHEETS

SDP1	TITLE SHEET
SDP2	OVERALL SITE PLAN
SDP3	SITE DEVELOPMENT PLAN

BENCHMARK

SLCO BM 14483 NAVD88(SLC2011a) Elev = 507.02 FTUS (or) 154.540 Meter
 NGVD29 Elev = 507.39 FTUS
 Cut "0" on the northwest top edge of a round concrete base for traffic signal most on a traffic island situated southwest of the right turn lane from westbound Clayton Road onto northbound Warson Road, roughly 30 feet east of the centerline of Warson Road, 37 feet north of the centerline of Clayton Road, 7.4 feet east of the west curb face of traffic island, and 11.3 feet north of the south curb face of traffic island. SP MD East N=311031± E=253072± Meter = Estimated Rough NAD83 Lat=38.636007±(N+) Long=90.395799±(W-)

SITE BENCHMARK #1

NGVD 29 Elev. = 508.58' FTUS
 "0" in open on fire hydrant along the west side of Warson Road 560± south of subject property.

SITE BENCHMARK #2

Elev. 508.12' - "0" in open on fire hydrant as shown on this survey.

ZONING NOTES

Zoned: D - Residential
 Existing site conditions may fall within permitted uses as listed in the City of Ladue zoning regulations. Zoning regulations are subject to change, interpretation and exception, for further information contact the City of Ladue planning and zoning department at (314)-997-6308.

FLOOD ZONE NOTES

By graphic plotting only, this property does lie within special flood zone areas according to the flood insurance rate map panel number 29189C0194K and community number 290363 (City of Ladue) which bears an effective date of February 4, 2015. The property lies within Zone AE (Special Flood Hazard Areas inundated by the 100-year flood), Shaded Zone X (Areas of 500-year flood), areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood) and unshaded zone X (areas determined to be outside 500 year flood plain).

LEGEND

- EXISTING CONTOURS 4.33
- PROPOSED CONTOURS 4.33
- EXISTING STORM SEWER
- PROPOSED STORM SEWER ST ST
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER SAN SAN
- RIGHT-OF-WAY
- EASEMENT
- CENTERLINE
- EXISTING TREE 12"
- EXISTING SPOT ELEVATION 4.33.28
- PROPOSED SPOT ELEVATION 4.33.28
- SWALE
- TO BE REMOVED T.B.R.
- TO BE REMOVED & RELOCATED T.B.R. & R.
- TO BE USED IN PLACE U.I.P.
- ADJUST TO GRADE A.T.G.
- BACK OF CURB B.C.
- FACE OF CURB F.C.
- WATER MAIN W W W
- GAS MAIN GAS GAS
- UNDERGROUND TELEPHONE T T T
- OVERHEAD WIRE OHE OHE
- UNDERGROUND ELECTRIC E E E
- SILTATION CONTROL X X
- FIRE HYDRANT
- POWER POLE
- WATER VALVE
- LIGHT STANDARD

ABBREVIATIONS

N	NORTH	WMH	WATER MANHOLE
S	SOUTH	TMH	TELEPHONE MANHOLE
E	EAST		
W	WEST		
CONC	CONCRETE		
ASPH	ASPHALT		
PS	PLAT BOOK		
DB	DEED BOOK		
PG	PAGE		
SF	SQUARE FEET		
AC	ACRES		
ELEV	ELEVATION		
FF	FINISH FLOOR		
FL	FLOWLINE		
PVC	POLYVINYL CHLORIDE PIPE		
RCP	REINFORCED CONCRETE PIPE		
STM	STORM		
SAN	SANITARY		
(S)	SAVE		
(R)	REMOVE		
(T.B.R.)	TO BE REMOVED		
(U.I.P.)	USE IN PLACE		

PREPARED FOR:

Ladue School District
 Mr. Mike Noonan
 Director of Facilities
 9701-R Conway
 St. Louis, Missouri

PREPARED BY:

CEDC
 CIVIL ENGINEERING
 DESIGN CONSULTANTS

10820 Sunset Office Drive
 Suite 200
 St. Louis, Missouri 63127
 314.729.1400
 Fax: 314.729.1404
 www.cedc.net

Design Storm Area (Acres) Existing Release Rate (c.f.s.) Routed Release Rate (c.f.s.)
 2 yr, 24 HR 12.25 34.77 22.49
 100 YR, 24 HR 12.25 98.13 64.91

Catchments Summary

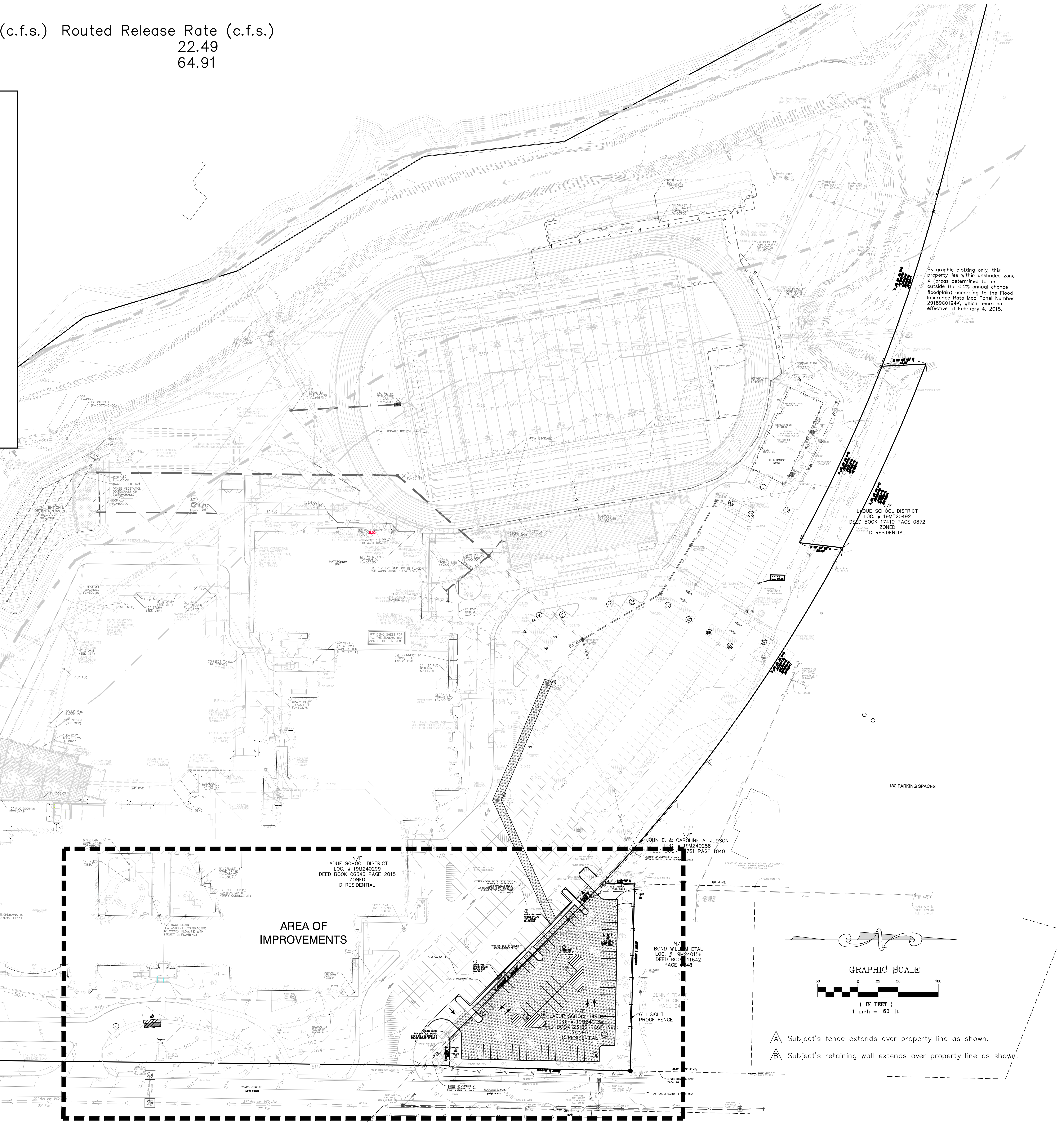
Label	Scenario	Return Event (years)	Hydrograph Volume (ft ³)	Time to Peak (hours)	Peak Flow (ft ³ /s)
PR TO BASIN A	MSD - 2YR 24HR	2	78,403.000	11.950	28.57
PR TO BASIN A	MSD - 100YR 24HR	100	203,304.000	11.950	70.39
EXISTING SITE	MSD - 2YR 24HR	2	83,035.000	11.925	34.77
EXISTING SITE	MSD - 100YR 24HR	100	246,265.000	11.925	98.13
Bypass (track & field)	MSD - 2YR 24HR	2	27,239.000	11.925	11.68
Bypass (track & field)	MSD - 100YR 24HR	100	80,788.000	11.925	32.79

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft ³)	Time to Peak (hours)	Peak Flow (ft ³ /s)
Basin Outfall	MSD - 2YR 24HR	2	74,835.000	12.050	22.49
Basin Outfall	MSD - 100YR 24HR	100	253,284.000	11.925	64.91
EX. OUTFALL	MSD - 2YR 24HR	2	83,035.000	11.925	34.77
EX. OUTFALL	MSD - 100YR 24HR	100	246,265.000	11.925	98.13

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft ³)	Time to Peak (hours)	Peak Flow (ft ³ /s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft ³)
BASIN A (IN)	MSD - 2YR 24HR	2	78,403.000	11.950	28.57	(N/A)	(N/A)
BASIN A (OUT)	MSD - 2YR 24HR	2	47,595.000	12.075	17.81	502.73	38,348.000
BASIN A (IN)	MSD - 100YR 24HR	100	203,304.000	11.950	70.39	(N/A)	(N/A)
BASIN A (OUT)	MSD - 100YR 24HR	100	172,496.000	12.100	35.21	504.33	66,219.000



By graphic plotting only, this property lies within unshaded zone X (areas determined to be outside the 0.2% annual chance floodplain) according to the Flood Insurance Rate Map Panel Number 28180C0194K, which bears an effective date of February 4, 2015.



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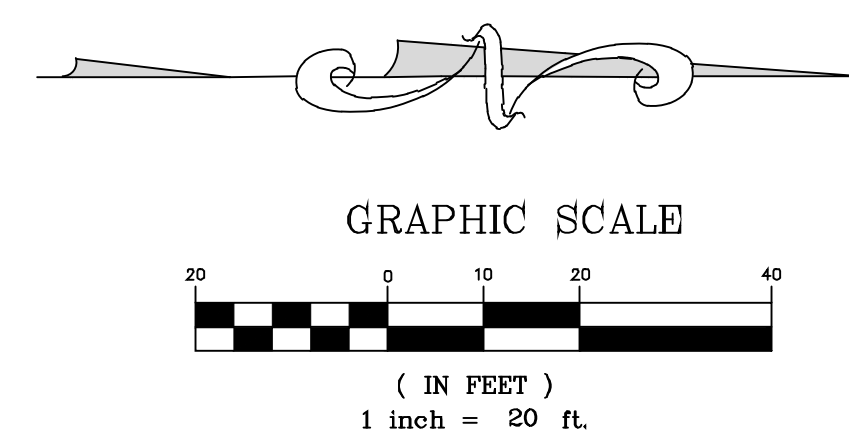
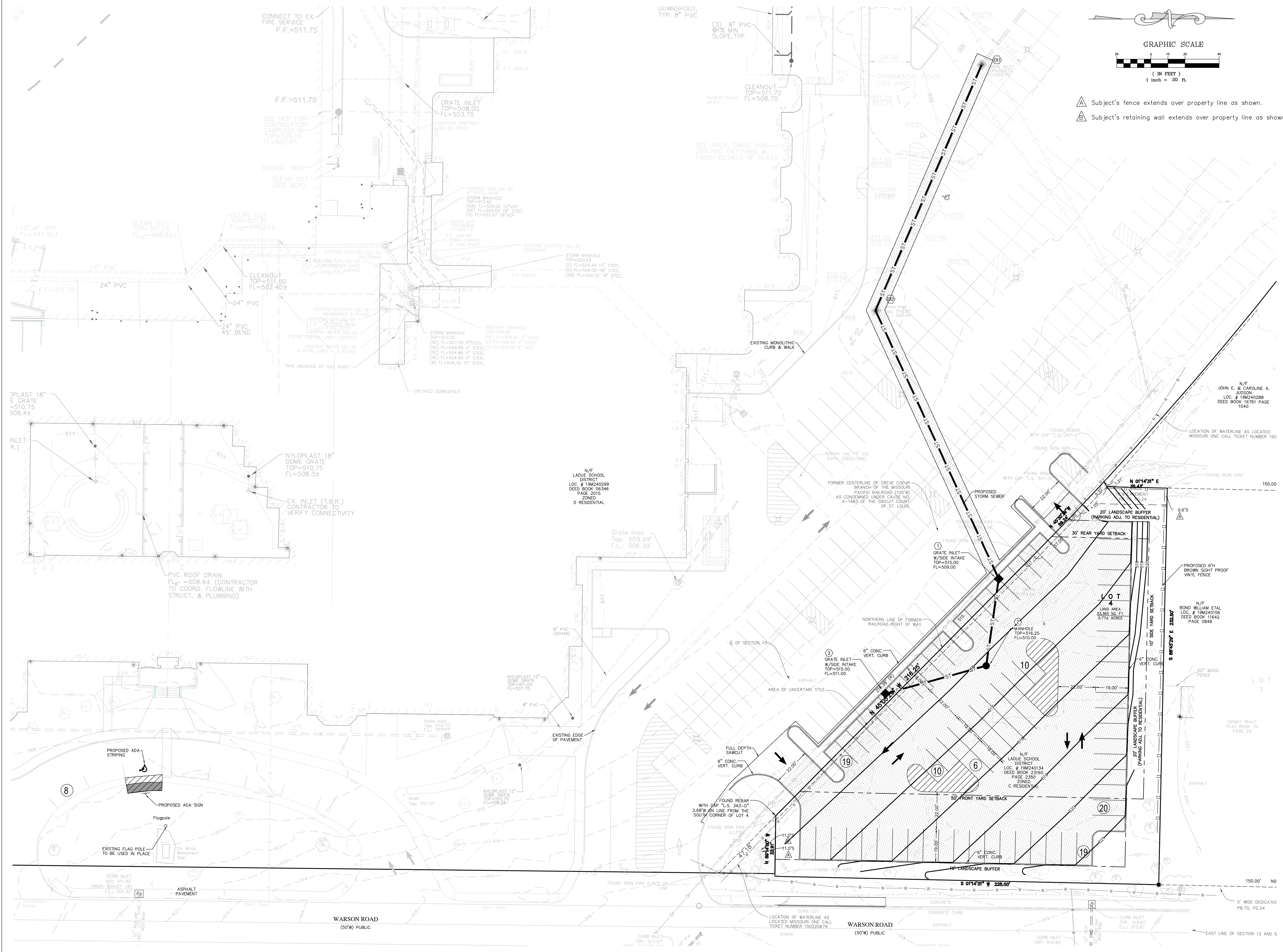
NEW PARKING
 Ladue Horton Watkins High School
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Overall Site Development Plan

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SDP2



- ⚠ Subject's fence extends over property line as shown.
- ⚠ Subject's retaining wall extends over property line as shown.



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Site Development Plan

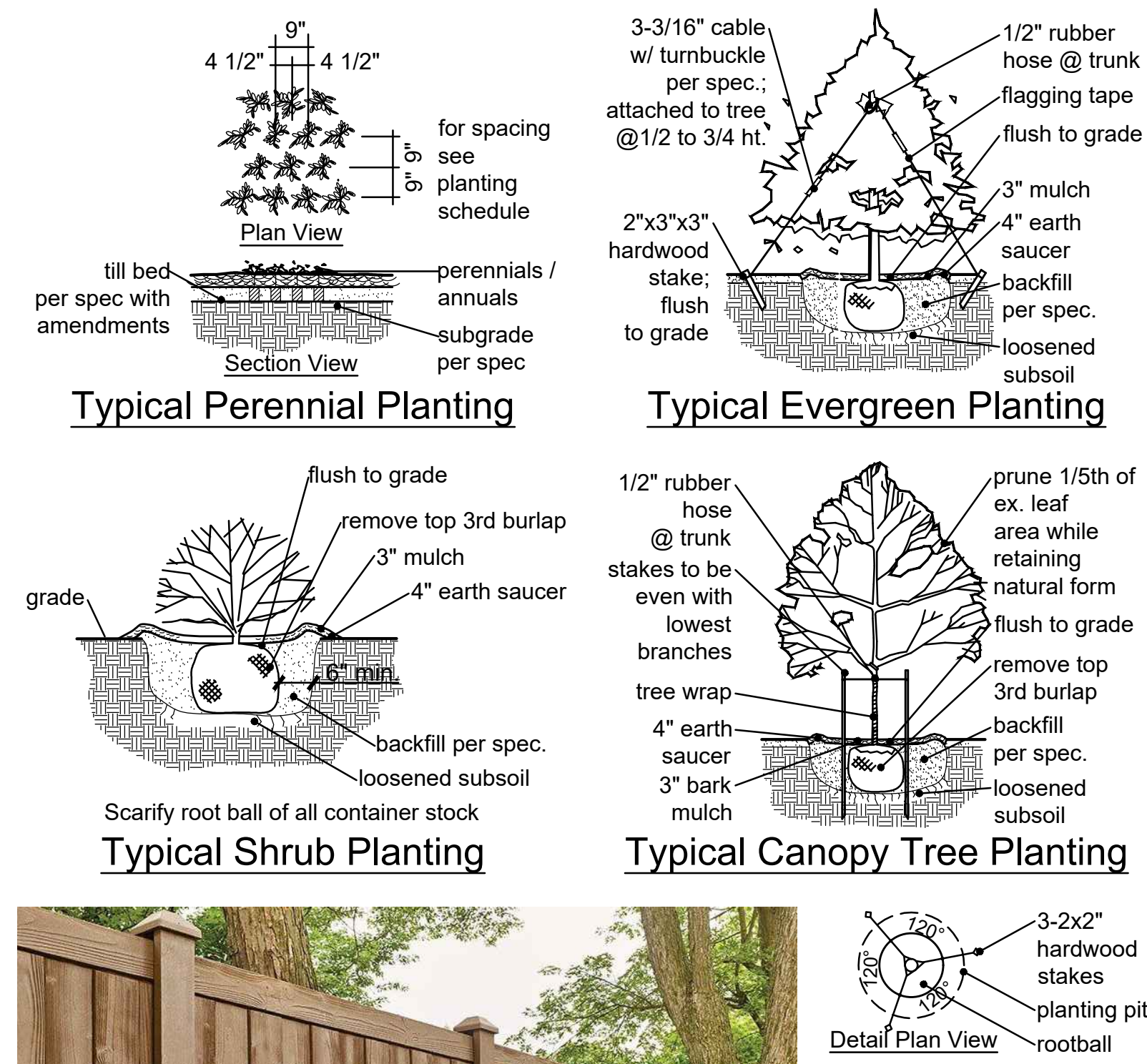
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Drawing No.:
SDP3

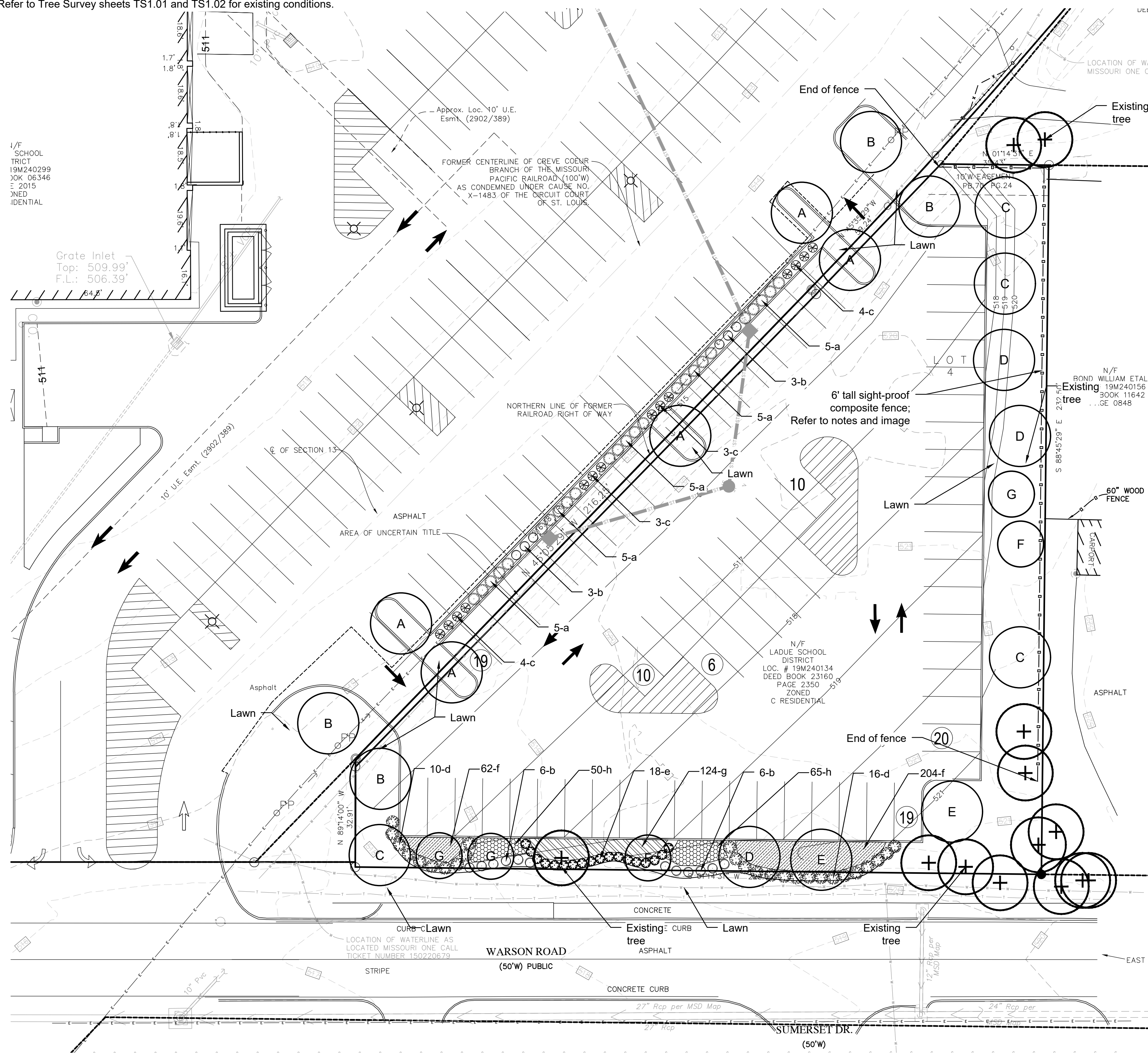
PLANTING SCHEDULE							
ID	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	MO NATIVE %	
CANOPY-SHADE TREE							
A	5	<i>Zelkova serrata</i> 'Green Vase'	Green Vase Zelkova	3" caliper	B & B		
B	4	<i>Ulmus parvifolia</i> 'Emer II'	Allee Elm	3" caliper	B & B		
C	4	<i>Quercus bicolor</i>	Swamp White Oak	3" caliper	B & B	17.39 %	
D	3	<i>Quercus shumardii</i>	Shumard Oak	3" caliper	B & B	13.04 %	
E	2	<i>Quercus imbricaria</i>	Shingle Oak	3" caliper	B & B	8.69 %	
UNDERSTORY TREE							
F	2	<i>Cercis canadensis</i>	Redbud	2.5' caliper	B & B	8.69 %	
G	3	<i>Amelanchier arborea</i>	Serviceberry	2.5' caliper	B & B		
SHRUBS-ORNAMENTAL GRASSES-PERENNIALS-ANNUALS-GROUNDCOVER						TOTAL %	60.85 %
a	25	<i>Miscanthus sinensis</i> 'Morning Light'	Maidengrass	1 gallon	Container		
b	18	<i>Calamagrostis x acutiflora</i> 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 gallon	Container		
c	14	<i>Panicum virgatum</i>	Switchgrass	1 gallon	Container		
d	26	<i>Deutzia</i> 'NCDX3'	Yuki Kabuki Deutzia	5 gallon	Container		
e	16	<i>Weigela florida</i> 'SMNWFMS'	Midnight Wine Shine Weigela	5 gallon	Container		
f	266	<i>Leucanthemum</i> hybrid 'TNLEUS'	Shortstop Shasta Daisy	1 quart	18" o.c.		
g	124	<i>Iberis sempervirens</i>	Candytuft	1 quart	18" o.c.		
h	115	<i>Sedum spurium</i> 'Bronze Carpet'	Bronze Carpet Stonecrop	2" cell plug	24" o.c.		

Landscape Notes:

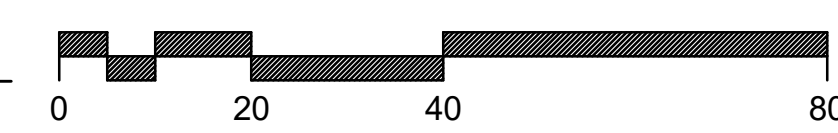
- Lawn areas shall be turf-type Tall Fescue Grass or approved equivalent. All 3:1 or steeper slopes shall be lawn seed and have erosion control blanket.
- Topsoil in all disturbed lawn areas at 6" depth.
- Soil mix in all shrub beds at 8" depth.
- All mulch to be double ground bark mulch.
- Bed edges to be spade cut.
- Protect and maintain all irrigation systems. Adapt existing system to accommodate new landscape area. Zone lawns independent of shrub beds. Contractor to provide design-build drawings for review by Landscape Architect.
- Provide 6' tall sight-proof composite Gold Cedar Bufftech Sherwood fence by Certainteed (or approved equal) at locations as noted on landscape plan. Refer to fence image.
- Refer to Tree Survey sheets TS1.01 and TS1.02 for existing conditions.



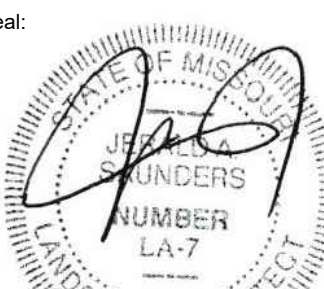
6' Tall Sight-Proof Composite Fence



Landscape Plan - Northeast
SCALE 1"=20'



Context Aerial Image
NOT TO SCALE



Jerald Saunders
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Landscape Plan

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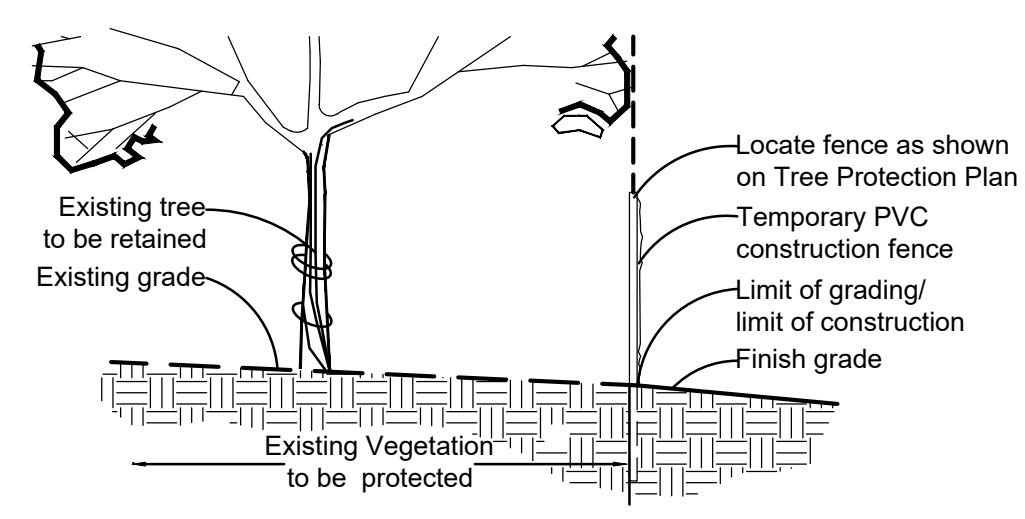


Tree Protection Notes:

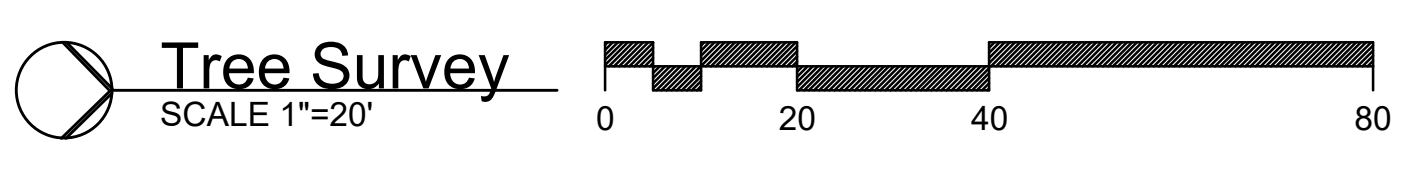
- 1) Pre-construction meeting to be held on-site to include a presentation of tree protection measures to operators, construction supervisors, developer's representative, and city zoning inspector.
- 2) Clearing Limits to be rough staked in order to facilitate location for installation of protection fencing. No early maintenance schedule is required.
- 3) No clearing or grading shall begin in areas where the treatment and preservation measures have not been completed, including the installation of tree protection fencing as shown on the plan. Where necessary, Contractor may perform minor tree clearing prior to installing silt fencing and tree protection fencing provided they maintain tree protection area.
- 4) Tree Protection Fencing shall be 4-foot high temporary plastic construction fence. No equipment traffic/parking, concrete washout, material storage or other such construction activity shall be permitted to penetrate the protection fencing or disrupt the Protected Woodland Area except for the removal of dead or invasive plant material. All ground plane in planting areas shall be mulched with hardwood bark mulch. Tree Protection Signage will be placed along the Protection Fencing as shown as the dashed line on the plan.
- 5) Tree protection measures to be maintained throughout construction sequence.

Tree Protection Action Key Sequence:

- 1) Survey limit of disturbance.
- 2) Perform root pruning.
- 3) Install tree protection fencing.
- 4) Post tree protection signage on fence (No signs will be posted on trees).
- 5) Maintain tree protection area as an off-limits zone.



Tree Protection Detail

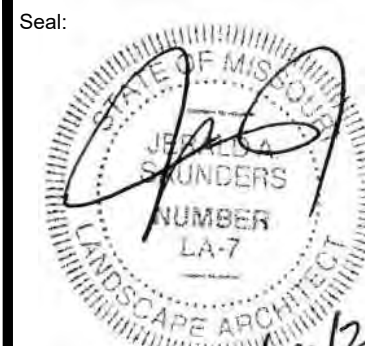


ID	Tree Name	DBH	Canopy Diam.	Condition Rating	Comment	To Be Removed	Preserved
1	Red Oak	24	45	2	Offsite		X
2	Pecan	8	15	2	Offsite		X
3	Shingle Oak	21	30	2			X
4	Post Oak	14	20	2	Offsite		X
5	Shingle Oak	14	15	1	Offsite		X
6	Shingle Oak	37	60	2	Offsite		X
7	White Pine	30	40	2		X	
8	White Pine	23	40	3		X	
9	Sweetgum	29	30	2		X	
10	Shingle Oak	16	24	3	Offsite		X
11	White Pine	11	0	0	Dead	X	
12	White Pine	21	40	2		X	
13	White Pine	23	30	2		X	
14	White Pine	18	30	1	Top out		X
15	White Pine	23	30	2		X	
16	White Pine	19	20	2		X	
17	White Pine	29	40	2		X	
18	White Pine	26	50	2			X
19	White Pine	18	30	2			X
20	Holly	7	12	1		X	
21	Red Oak	37	60	2	Warson ROW		X
22	White Pine	12	24	1			X
23	White Pine	17	28	2	Thin		X
24	Dogwood	4	12	1		X	
25	Redbud	3	12	2		X	
26	Shingle Oak	25	40	2		X	
27	Shingle Oak	20	30	2		X	
28	White Pine	23	50	2		X	
29	Magnolia	12	30	2		X	
30	Holly	8	20	2	Twin	X	
31	Dogwood	7	12	1	Dying	X	
32	Shingle Oak	25	50	2			X
33	Shingle Oak	26	50	2		X	
34	Persimmon	9	20	2		X	
35	Persimmon	8	20	2		X	
36	Shingle Oak	24	50	1	Some dieback	X	
37	Shingle Oak	20	50	2		X	
38	White Pine	20	0	0	Dead	X	
39	Zelkova	14	30	2		X	

Tree Survey Prepared under direction of:
 Kristin Province
 Certified Arborist MW-6075A
Kristin Province

Tree Condition Rating:

Excellent	=	4
Good	=	3
Fair	=	2
Poor	=	1
Dead	=	0



Jerald Saunders
Landscape Architect
MO License # LA-007

Original Issue Date:
11-8-24

Revisions:
No. Date

No.	Date

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NEW PARKING
Ladue Horton Watkins High School
1201 S. Warson Road
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Project No.: 584.063

Drawing Title:
Tree Survey

Drawn: KP
Checked: RS

Drawing No.:
TS 1.02

ID	Tree Name	DBH	Canopy Diam.	Condition Rating	Comment	To Be Removed	Preserved
1	Red Oak	24	45	2	Offsite		X
2	Pecan	8	15	2	Offsite		X
3	Shingle Oak	21	30	2		X	
4	Post Oak	14	20	2	Offsite		X
5	Shingle Oak	14	15	1	Offsite		X
6	Shingle Oak	37	60	2	Offsite		X
7	White Pine	30	40	2		X	
8	White Pine	23	40	3		X	
9	Sweetgum	29	30	2		X	
10	Shingle Oak	16	24	3	Offsite		X
11	White Pine	11	0	0	Dead	X	
12	White Pine	21	40	2		X	
13	White Pine	23	30	2		X	
14	White Pine	18	30	1	Top out	X	
15	White Pine	23	30	2		X	
16	White Pine	19	20	2		X	
17	White Pine	29	40	2		X	
18	White Pine	26	50	2			X
19	White Pine	18	30	2			X
20	Holly	7	12	1		X	
21	Red Oak	37	60	2	Warson ROW		X
22	White Pine	12	24	1	Thin		X
23	White Pine	17	28	2			X
24	Dogwood	4	12	1		X	
25	Redbud	3	12	2		X	
26	Shingle Oak	25	40	2		X	
27	Shingle Oak	20	30	2		X	
28	White Pine	23	50	2		X	
29	Magnolia	12	30	2		X	
30	Holly	6	20	2	Twin		X
31	Dogwood	7	12	1	Dying	X	
32	Shingle Oak	25	50	2			X
33	Shingle Oak	26	50	2		X	
34	Persimmon	9	20	2		X	
35	Persimmon	8	20	2		X	
36	Shingle Oak	24	50	1	Some dieback	X	
37	Shingle Oak	20	50	2		X	
38	White Pine	20	0	0	Dead	X	
39	Zelkova	14	30	2		X	

Tree Condition Rating:
Excellent = 4
Good = 3
Fair = 2
Poor = 1
Dead = 0



Existing Trees # 6, 10



Existing Tree # 9



Existing Tree # 7



Existing Trees # 11, 12



Existing Tree # 14, 11, 12, 13



Existing Trees # 15, 14, 13, 16, 17



Existing Trees # 15, 14



Existing Tree # 17



Existing Tree # 30



Existing Trees # 18, 19



Existing Trees # 18, 19



Existing Trees # 19, 4, 3, 2



Existing Trees # 3, 21, 22



Existing Trees # 21, 22, 23



Existing Trees # 22, 23



Existing Tree # 24, 25, 26



Existing Trees # 24, 25, 26, 27, 28



Existing Trees # 24, 25, 26, 27, 28



Existing Trees # 27, 28



Existing Trees # 31, 32



Existing Tree # 30



Existing Tree # 29



Existing Tree # 28



Existing Tree # 38



Existing Tree # 39



Existing Tree # 37



Existing Trees # 31, 32



Existing Trees # 28, 27, 26, 25, 24



Existing Trees # 27, 26, 25, 24, 23



Existing Trees # 23, 22, 21



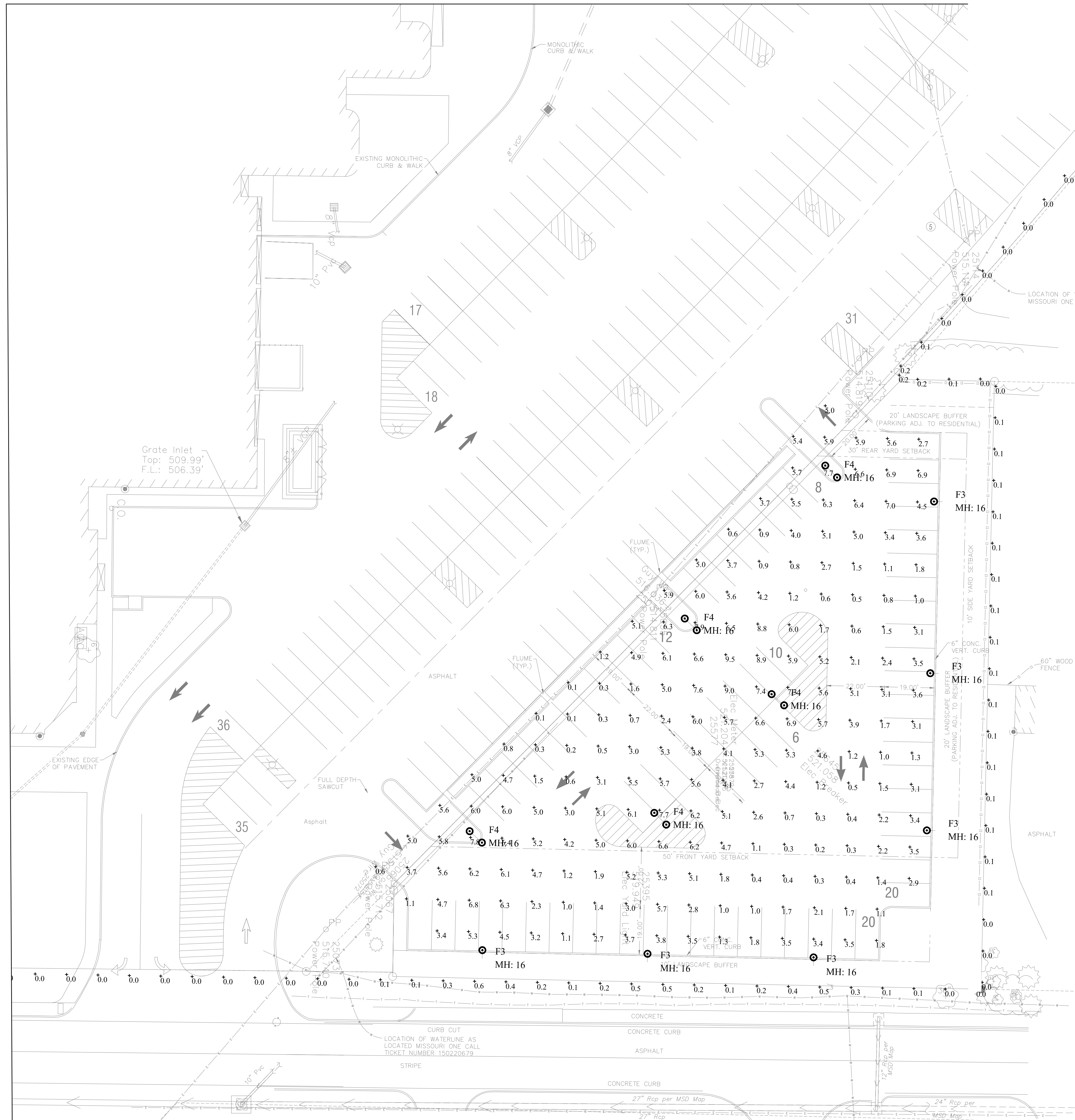
Existing Trees # 1, 5, 2 offsite



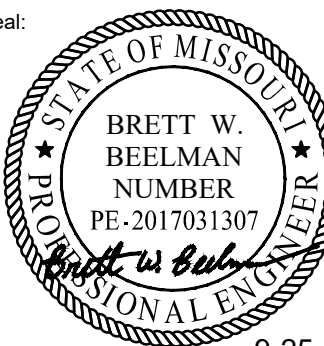
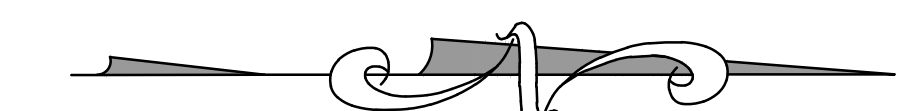
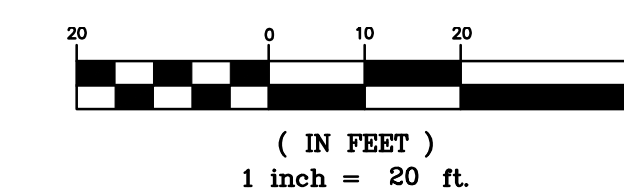
Bond Residence immediately North of site

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
AREA 2	Illuminance	Fc	3.69	9.5	0.1	36.9	95.0

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	LLF	Lum. Watts	Total Watts	Description
	6	F3	Single	0.900	100	600	SA18-y-z-3-M-H-P-90L-40K7-DCC-DV
	5	F4	Back-Back	0.900	100	1000	SA18-y-z-5S-W-S-P-90L-40K7-DCC-DV-TWIN



1 AREA 2
L1 SCALE: 1" = 20'-0"



9-25-24
BRETT W. BEELMAN
PE-2017031307

Original Issue Date:
09-25-24

Revisions:	
No.	Date

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NEW PARKING
Ladue Horton Watkins High School
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Project No:
24-1020

Drawing Title:
**Site Lighting Plan
Photometrics**

Drawn: MJS

Checked: BWB

Drawing No:

L1

SENSCAPE™

Luminaires for Parks, Campus and Commercial Areas

SA18 SERIES

PRODUCT FEATURES:

- » Architectural, modern design aesthetic scaled for mounting heights of 9-20 feet
- » Multiple mounting configuration and optical distribution options to suit all common area lighting scenarios
- » Lumen outputs up to 16,000lm with color temperatures ranging from 3000K to 5000K



POST TOP MOUNT



POLE MOUNT



WALL MOUNT

SPECIFICATIONS

HOUSING: Marine-grade die-cast aluminum construction. Integral aluminum heat sink with concealed air inlet and convection fins. All power electronics removed from primary thermal path; all drivers with dedicated heatsink to exterior of luminaire. TGIC polyester powder coat finish with five-step pre-treatment; salt-spray test 1,000 hours. See Ordering Information for available finishes. Closed-cell silicone gasketing at all housing interfaces.

MOUNTING: Post Top: Fitter assembly mounts over a 2-3/8" tenon on 3, 4 and 5 inch round and square poles and secured via four (4), corrosion resistant set screws. Fitter design provides gentle transition to 3" O.D. round pole. Pole Mount: Internal bracket and hardware provided for drilled round and square 3 inch and larger poles. Wall Mount: Quick and simple mounting bracket allows four point mounting to rigid walls.

OPTICS: Type II, III, IV and V Square optical distributions. Each type available with Narrow, Medium and Wide options for glare mitigation (Wide has the lowest level of glare mitigation, Narrow the highest). Internal house-side shield available (does not impact EPA). Injection-molded acrylic or polycarbonate tertiary outer lens.

ELECTRICAL: Replaceable high-brightness LED array. See Ordering Information for color temperature options. 120-277VAC or 277-480VAC, 50/60Hz input with replaceable high power factor electronic constant-current driver (<10% THD, >0.95 PF). Standard 0-10V dimming with 10-100% range; 0.9mA max source current. Minimum 85% driver efficiency. EMC performance compliant with FCC CFR Part 15. Serviceable surge protection device rated to 6kV per ANSI C62.41-2002 category C low.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For photometric data, please go to www.kenall.com.

WARRANTY: Limited five (5) year warranty.

LISTINGS: Luminaire is certified to UL Standards by Intertek Testing Laboratory for Wet Location. IP65 rating per IEC 60598. Luminaire is 3G tested for vibration per ANSI C136.31. Suitable for installation into -40°C to 40°C ambient environments.



ORDERING INFORMATION (Ex: SA18-PM-MB-4-M-H-P-115L-40K8-DCC-CV)

Model	Mounting	Finish	Distribution	Diffusion	House-Side	Lens Type	Lamp Power	Lamp Color	Driver	Voltage	Options
SA18										DCC	
Mounting			Distribution Type			Lens Type		Input Voltage			
PT	Post Top Mount		2	Type II		P	Polycarbonate	DV	120-277VAC, 50/60Hz		
PM	Pole Mount		3	Type III		A	Acrylic	CV	277-480VAC, 50/60Hz		
WM	Wall Mount		4	Type IV							
			5S	Type V Square							
Finish			Diffusion			Lamp Power		Options			
MW	Matte White (PCTT80126)		N	Narrow (Full Diffusion)	30L	30W LED		RL†	Rotate optics 90 degrees left		
LG	Light Gray (PCTT70124)		M	Medium (Softened Diffusion)	45L	45W LED		RR†	Rotate optics 90 degrees Right		
BR	Bronze (PCTT25109)		W	Wide (Clear)	70L	70W LED		FS	Single Fuse & Holder		
DB	Dark Bronze (PCTT20123)				90L	90W LED		N7P	NEMA 7 Pin Receptacle (Photocell by others)		
MB	Matte Black (PCTT90115)				115L	115W LED		BG	Bird Guard		
IV	Ivory (PPL92485)		House-Side Shield			Lamp Color		* n/a with 5S Distribution Type † n/a with PT Mounting or 5S Distribution Type			
FG	Forest Green (PLGT3)		H*	House-Side Shield	30K8	3000K/80CRI min					
SL	Silver (PCTT75112)		S	No House-Side Shield	40K7	4000K/70CRI min					
CC	Custom Color (consult factory)				40K8	4000K/80CRI min					
						50K7	5000K/70CRI min				
Driver Type											
DCC										0-10V Dimming Constant Current	



SENSCAPE™

Luminaires for Parks, Campus and Commercial Areas

SA18 SERIES

PERFORMANCE

Optic Type	Optic Width	House-Side Shield	Lens Type	Luminaire Performance, by Lamp Power									
				30L		45L		70L		90L		115L	
				Lumens (lm)	BUG Rating	Lumens (lm)	BUG Rating	Lumens (lm)	BUG Rating	Lumens (lm)	BUG Rating	Lumens (lm)	BUG Rating
Type II	N	H	P	1,738	B1-U0-G1	2,658	B1-U0-G1	3,540	B1-U0-G1	4,223	B1-U0-G1	6,471	B2-U0-G1
		S		3,712	B1-U0-G1	5,678	B2-U0-G1	7,562	B2-U0-G2	9,021	B3-U0-G2	13,825	B3-U0-G2
	M	H		1,994	B0-U0-G0	3,051	B0-U0-G1	4,062	B1-U0-G1	4,847	B1-U0-G1	7,427	B1-U0-G1
		S		3,937	B1-U0-G1	6,022	B2-U0-G1	8,020	B2-U0-G2	9,568	B2-U0-G2	14,662	B3-U0-G2
	W	H		2,217	B0-U0-G0	3,391	B0-U0-G1	4,515	B0-U0-G1	5,387	B1-U0-G1	8,255	B1-U0-G2
		S		4,107	B1-U0-G1	6,283	B2-U0-G1	8,367	B2-U0-G2	9,982	B2-U0-G2	15,297	B3-U0-G2
Type III	N	H	P	1,662	B1-U0-G0	2,543	B1-U0-G1	3,386	B1-U0-G1	4,040	B1-U0-G1	6,191	B2-U0-G1
		S		3,757	B1-U0-G1	5,747	B2-U0-G1	7,654	B2-U0-G2	9,131	B3-U0-G2	13,993	B3-U0-G3
	M	H		1,906	B0-U0-G1	2,915	B0-U0-G1	3,882	B1-U0-G1	4,631	B1-U0-G1	7,097	B1-U0-G1
		S		4,004	B1-U0-G1	6,125	B2-U0-G1	8,157	B2-U0-G2	9,732	B2-U0-G2	14,914	B3-U0-G2
	W	H		2,102	B0-U0-G0	3,216	B0-U0-G1	4,283	B1-U0-G1	5,110	B1-U0-G1	7,830	B1-U0-G2
		S		4,114	B1-U0-G1	6,293	B2-U0-G1	8,380	B2-U0-G2	9,998	B2-U0-G2	15,321	B3-U0-G3
Type IV	N	H	P	1,834	B1-U0-G1	2,806	B1-U0-G1	3,737	B1-U0-G1	4,458	B1-U0-G1	6,832	B2-U0-G1
		S		3,862	B1-U0-G1	5,907	B2-U0-G1	7,867	B3-U0-G2	9,385	B3-U0-G2	14,383	B3-U0-G3
	M	H		2,066	B0-U0-G1	3,161	B1-U0-G1	4,209	B1-U0-G1	5,022	B1-U0-G1	7,696	B1-U0-G1
		S		4,064	B1-U0-G1	6,216	B2-U0-G1	8,278	B2-U0-G2	9,876	B3-U0-G2	15,135	B3-U0-G2
	W	H		2,307	B0-U0-G0	3,529	B0-U0-G1	4,700	B1-U0-G1	5,607	B1-U0-G1	8,592	B1-U0-G2
		S		4,162	B1-U0-G1	6,367	B2-U0-G1	8,479	B2-U0-G2	10,116	B2-U0-G2	15,502	B3-U0-G2
Type V Square	N	S	P	3,960	B2-U0-G1	6,058	B2-U0-G1	8,067	B2-U0-G1	9,624	B3-U0-G1	14,749	B3-U0-G1
	M			4,177	B2-U0-G1	6,390	B2-U0-G1	8,509	B3-U0-G1	10,151	B3-U0-G1	15,557	B3-U0-G2
	W			4,327	B2-U0-G1	6,619	B3-U0-G1	8,815	B3-U0-G1	10,516	B3-U0-G1	16,116	B4-U0-G2
Input Power (W)				35		54		78		100		141	
Input Current @ 277VAC (A)				0.137		0.201		0.294		0.377		0.521	
Calculated L70 (Hrs)				110,000		90,000		75,000		65,000		80,000	

NOTE: Product performance provided with 40K7 lamp color. See Lamp Color Scaling Table for lumen multiplier required when specified in alternate colors. Information subject to change without notice. Please see www.kenall.com for additional information and .IES files.

LAMP COLOR SCALING FACTOR

Lamp Power	30K8	40K7	40K8	50K7
ALL	0.92	1.00	0.94	1.01

EPA DATA

Mounting	Pole Mount	Post Top
EPA	0.577 ft²	0.769 ft²
Weight	20 lbs	20 lbs



www.kenall.com

P: 800-4-Kenall

F: 262-891-9701

10200 55th Street Kenosha, Wisconsin 53144

A brand of legrand

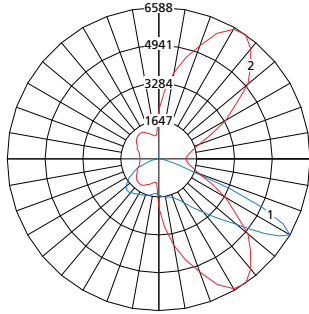
This product may be covered by patents found at www.kenall.com/patents. Content of specification sheets is subject to change; please consult www.kenall.com for current product details.
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SENSCAPE™
Luminaires for Parks, Campus and Commercial Areas
SA18 SERIES

For additional photometry, go to www.kenall.com

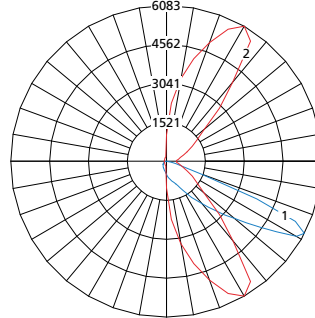
PERFORMANCE

Model: SA18-yy-zz-2-W-S-P-90L-40K7-DCC-DV



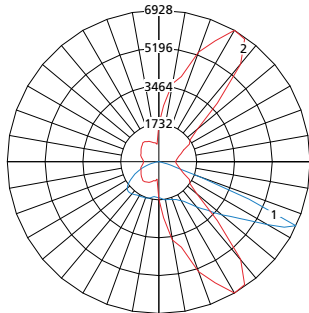
Max Candela = 6588 Located At Horizontal Angle = 55, Vertical Angle = 60
 1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

Model: SA18-yy-zz-2-W-H-P-90L-40K7-DCC-DV



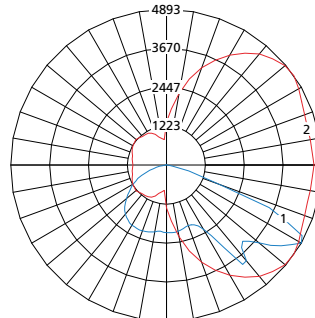
Max Candela = 6083 Located At Horizontal Angle = 60, Vertical Angle = 62.5
 1 - Vertical Plane Through Horizontal Angles (60 - 240) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

Model: SA18-yy-zz-3-W-S-P-90L-40K7-DCC-DV



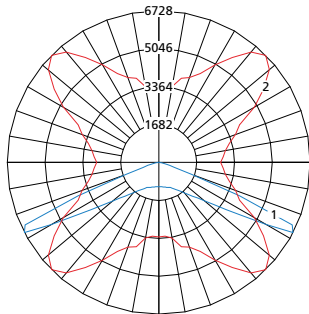
Max Candela = 6928 Located At Horizontal Angle = 60, Vertical Angle = 65
 1 - Vertical Plane Through Horizontal Angles (60 - 240) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

Model: SA18-yy-zz-4-W-S-P-90L-40K7-DCC-DV



Max Candela = 4893 Located At Horizontal Angle = 35, Vertical Angle = 60
 1 - Vertical Plane Through Horizontal Angles (35 - 215) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

Model: SA18-yy-zz-5S-W-S-P-90L-40K7-DCC-DV



Max Candela = 6728 Located At Horizontal Angle = 45, Vertical Angle = 62.5
 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)



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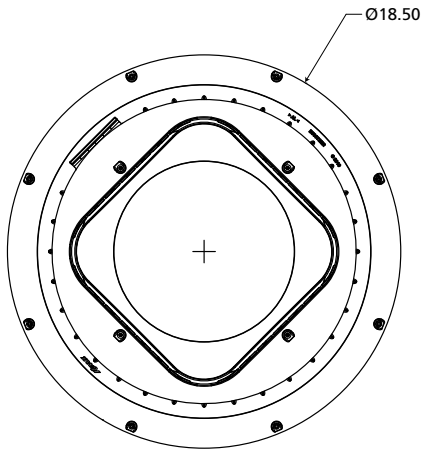
10200 55th Street Kenosha, Wisconsin 53144

A brand of **legrand**

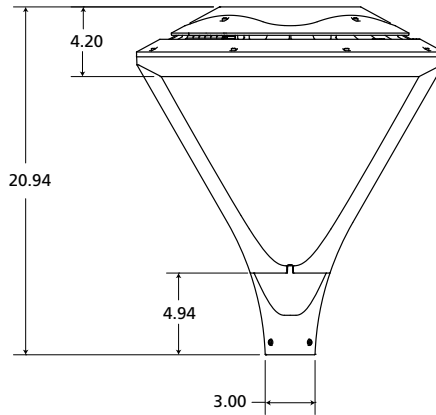
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 Luminaires for Parks, Campus and Commercial Areas
SA18 SERIES

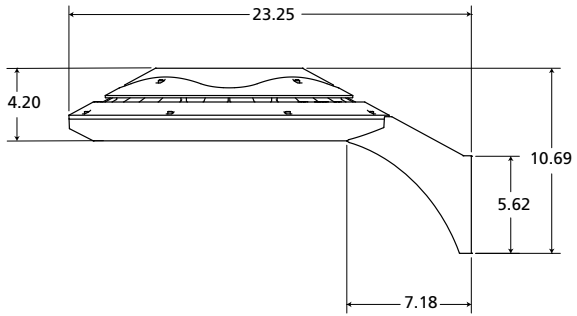
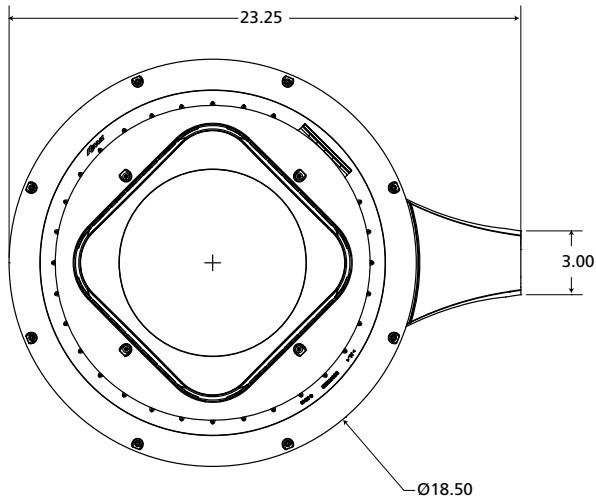
DIMENSIONAL DATA



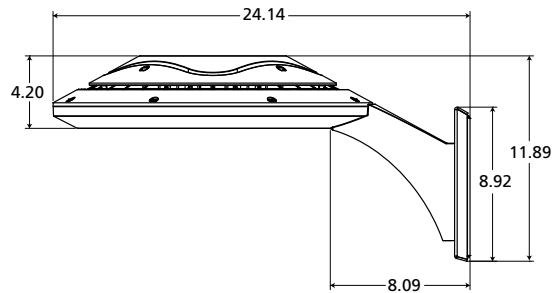
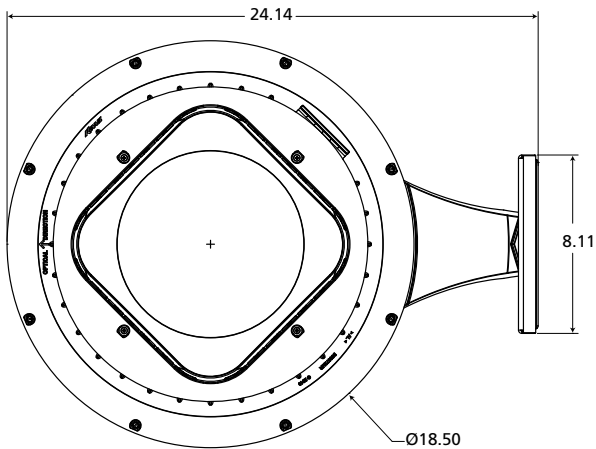
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Pole Mount



Wall Mount



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