

LEE'S SUMMIT MIDDLE SCHOOL #4

PRELIMINARY DEVELOPMENT PLAN

1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

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PLANS FOR RESUBMITTAL - 06/09/2020

VICINITY MAP:



LEGAL DESCRIPTION:

Surveyor's Recommended Property Description:

All that part of Northeast Quarter of Section 16, Township 47 North, Range 31 West, in the City of Lee's Summit, Jackson County, Missouri, as described by Timothy Blair Wiswell, Missouri Professional Licensed Surveyor, PLS-2009000067, and being more particularly described as follows:

COMMENCING at the Northwest corner of the Northeast Quarter, of said Section 16-T47N-R31W; thence South 02 degrees 20 minutes 19 seconds West, along the West line of said Northeast Quarter, a distance of 20.00 feet, to a point on the South Right-of-Way line of Bailey Road as now established, said point also being the Northeast corner of Lot 164 of Newberry Second Plat, Lots 1-65, 163 and 164, a subdivision in the City of Lee's Summit, Jackson County, Missouri; thence South 88 degrees 07 minutes 48 seconds East, on the South Right-of-Way line of said Bailey Road, a distance of 1,350.00 feet, to a point; thence South 35 degrees 20 minutes 58 seconds West, departing the South Right-of-Way line of said Bailey Road, a distance of 517.08 feet, to a point; thence South 07 degrees 56 minutes 53 seconds West, a distance of 320.18 feet, to a point; thence South 12 degrees 12 minutes 42 seconds West, a distance of 1,168.07 feet, to a point; thence South 27 degrees 41 minutes 50 seconds West, a distance of 480.35 feet, to a point on a line that is 300.00 feet North of and parallel to the South line of said Northeast Quarter; thence North 88 degrees 04 minutes 43 seconds West, on said parallel line, a distance of 630.96 feet, to a point on the West line of said Northeast Quarter, said point also being on the East line of Newberry Fourth Plat, a subdivision in the City of Lee's Summit, Jackson County, Missouri; thence North 02 degrees 20 minutes 19 seconds East, on the West line of said Northeast Quarter, and on the East line of said Newberry Fourth Plat, and on the East line of Newberry Third Plat, a subdivision in the City of Lee's Summit, Jackson County, Missouri, and on the East line of said Newberry Second Plat, Lots 1-65, 163 and 164, a distance of 2,330.63 feet, to the POINT OF BEGINNING, containing 2,250,248 square feet or 51.6586 acres, more or less.

DESIGN TEAM:

OWNER:

LEE'S SUMMIT R-7 SCHOOL DISTRICT
502 SE TRANSPORT DRIVE
LEE'S SUMMIT, MO 64083
816.986.3415

ARCHITECT OF RECORD:

DLR GROUP
7290 WEST 133RD ST
OVERLAND PARK, KS 66213
913.897.7811

CIVIL ENGINEER:

OLSSON
7301 WEST 133RD ST
OVERLAND PARK, KS 66213
913.897.1170

LANDSCAPE ARCHITECT:

DLR GROUP
7290 WEST 133RD ST
OVERLAND PARK, KS 66213
913.897.7811

M.E.P. ENGINEER:

HENDERSON ENGINEERS
8435 LENEKA DRIVE SUITE 300
LENEKA, KS 66214
913.742.5000

STRUCTURAL ENGINEER:

DLR GROUP
7290 WEST 133RD ST
OVERLAND PARK, KS 66213
913.897.7811

CONSTRUCTION MANAGER:

MCCOWNGORDON CONSTRUCTION
422 ADMIRAL BOULEVARD
KANSAS CITY, MO 64106
816.877.0690

LEE'S SUMMIT MIDDLE SCHOOL #4
LEE'S SUMMIT R-7 SCHOOL DISTRICT
1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

PRELIMINARY
DEVELOPMENT PLAN
06/09/20
REVISIONS

13-20102-00

COVER SHEET

A0.0

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SE WARREN DRIVE

R-1 RESIDENTIAL

SE COUNTRY LANE

LEE'S SUMMIT HIGH SCHOOL
BASEBALL AND
SOFTBALL COMPLEX

SE 13TH STREET

SE DALTON COURT

R-1 RESIDENTIAL

SE DALTON DRIVE

SE 14TH TERRACE

SE 15TH STREET

ABANDON EXISTING
R/W AND PROVIDE
A SIDEWALK/UTILITY
ESMT. FOR
ABANDONED
AREA.

CONSTRUCT PRIVATE
DRIVEWAY EXTENSION
50' SIDEWALK/
UTILITY ESMT.

BUS PARKING AND OVERFLOW PARKING

REMOVE EXISTING
PAVEMENT AND CONSTRUCT
CURB & GUTTER AND
SIDEWALK ACROSS REMOVED
DEAD END STREET.

SE CAPE DRIVE

SE HOCKER CIRCLE

SE DALTON DRIVE

AG- AGRICULTURE

STREAM BUFFER

CENTERLINE OF EXISTING
STREAMWAY

EXISTING TREE LINE

PROPOSED
BUILDING
FFE=1017.75

6 LANE TRACK
AND FOOTBALL FIELD

PRACTICE FIELD AND
TRACK THROWING EVENTS

PROPOSED SANITARY SEWER ESMT.
FOR FUTURE CONNECTION TO EAST

FUTURE PUBLIC SANITARY
MAIN EXTENSION AND ESMT.

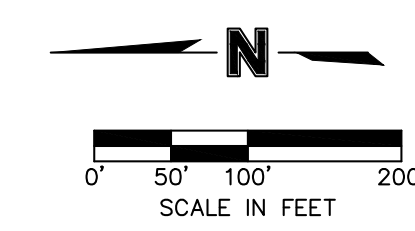
FUTURE SE CAPE DRIVE
EXTENSION

AG- AGRICULTURE

SITE DATA		
ZONING & SITE AREA		PROPOSED/EXISTING ZONING: AG AGRICULTURE
PROPOSED USE: PUBLIC MIDDLE SCHOOL/ BALLFIELD COMPLEX		
SITE AREA		
XX ACRES (XX SQ.FT.)	51.66 AC. (2,250,248.11 SF)	
IMPERVIOUS	14.99 AC. (652,941 SF)	
PERVIOUS	36.67 AC. (1,597,307.11 SF)	
FAR (0.55 MAX):	0.084	
BUILDING AREA		
BUILDING TYPE	# STORIES	AREA
BUILDING 1	2	1ST FLOOR: 129,739 SQ.FT.
		2ND FLOOR: 60,256 SQ.FT. (54,971 5,285 SQ.FT. MECH. MEZZANINE)
BUILDING 2 (CONCESSIONS)	1	5,000 SQ.FT.
		TOTAL 189,995 SQ.FT.
PARKING		
USE	REQUIRED	PROVIDED
SCHOOL (36 CLASSROOMS)	2 SPACES PER CLASSROOM (72)	191
GYM OCCUPANCY (600)	1 SPACE PER 3 SEATS (200)	200
BALLFIELD COMPLEX OCCUPANCY(600)	1 SPACE PER 3 SEATS (200)	200
VAN ACCESSIBLE ADA		4
STANDARD ADA		9
TOTAL	472	604

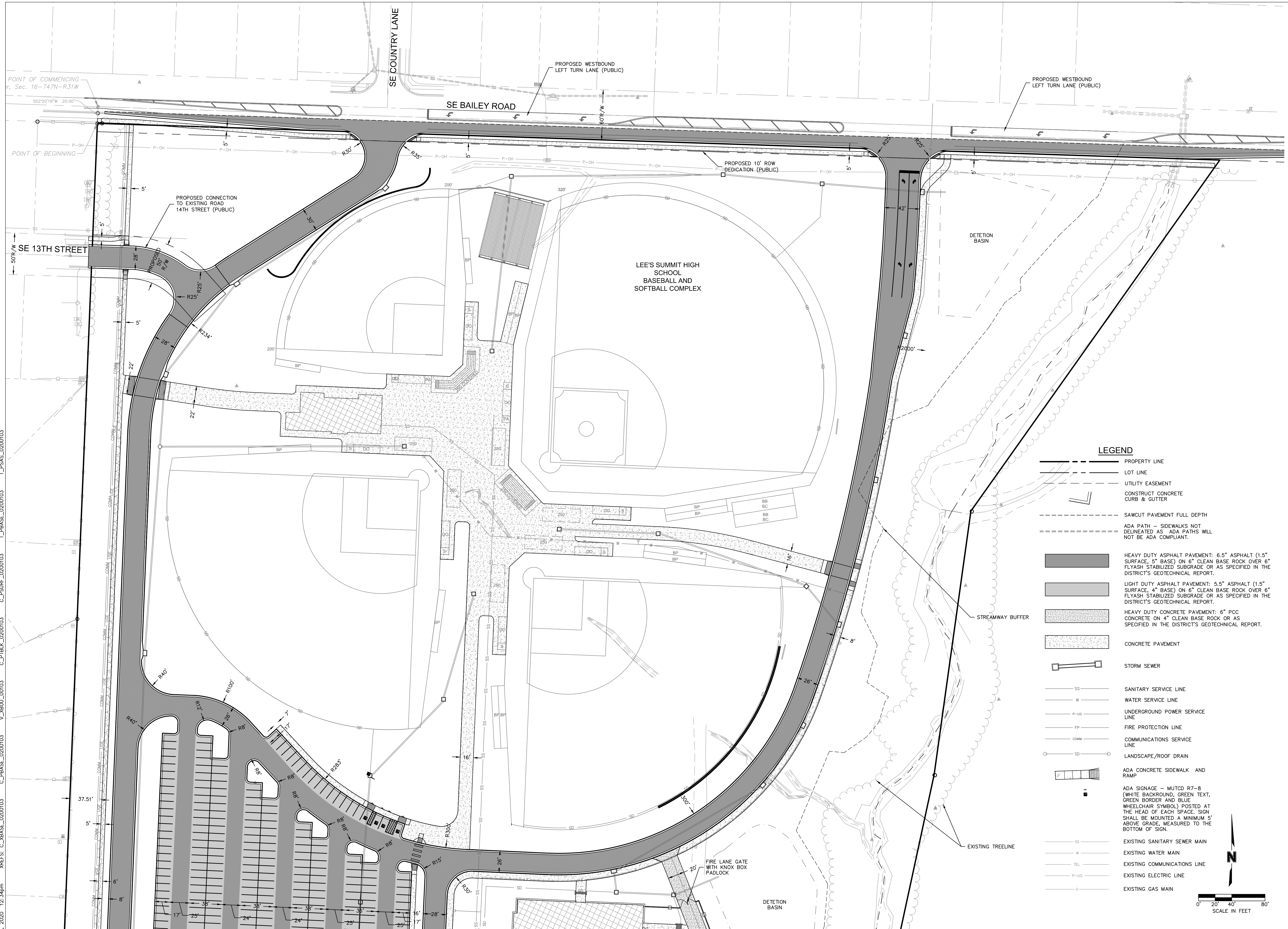
LEGEND

- PROPERTY LINE
- LOT LINE
- UTILITY EASEMENT
- CONSTRUCT CONCRETE CURB & GUTTER
- SAWCUT PAVEMENT FULL DEPTH
- ADA PATH - SIDEWALKS NOT DELINEATED AS ADA PATHS WILL NOT BE ADA COMPLIANT.
- HEAVY DUTY ASPHALT PAVEMENT
- STANDARD DUTY ASPHALT PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- CONCRETE PAVEMENT
- STORM SEWER
- SANITARY SERVICE LINE
- WATER SERVICE LINE
- UNDERGROUND POWER SERVICE LINE
- FIRE PROTECTION LINE
- COMMUNICATIONS SERVICE LINE
- LANDSCAPE/ROOF DRAIN
- ADA CONCRETE SIDEWALK AND RAMP
- EXISTING SANITARY SEWER MAIN
- EXISTING WATER MAIN
- EXISTING COMMUNICATIONS LINE
- EXISTING ELECTRIC LINE
- EXISTING GAS MAIN



1	REVISED PER CITY COMMENTS	06.09.2020
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- LIGHT DUTY ASPHALT PAVEMENT: 5.5" ASPHALT (1.5" SURFACE, 4" BASE) ON 6" CLEAN BASE ROCK OVER 6" FLYASH STABILIZED SUBGRADE OR AS SPECIFIED IN THE DISTRICT'S GEOTECHNICAL REPORT.
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- CONCRETE PAVEMENT
- STORM SEWER
- SS SANITARY SERVICE LINE
- W WATER SERVICE LINE
- P-UG UNDERGROUND POWER SERVICE LINE
- FP FIRE PROTECTION LINE
- COMM COMMUNICATIONS SERVICE LINE
- SD LANDSCAPE/ROOF DRAIN
- ADA CONCRETE SIDEWALK AND RAMP
- ADA SIGNAGE - MUTCD R7-8 (WHITE BACKGROUND, GREEN TEXT, GREEN BORDER AND BLUE WHEELCHAIR SYMBOL) POSTED AT THE HEAD OF EACH SPACE. SIGN SHALL BE MOUNTED A MINIMUM 5' ABOVE GRADE, MEASURED TO THE BOTTOM OF SIGN.
- SS EXISTING SANITARY SEWER MAIN
- W EXISTING WATER MAIN
- TEL EXISTING COMMUNICATIONS LINE
- P-UG EXISTING ELECTRIC LINE
- G EXISTING GAS MAIN

SCALE IN FEET
 0' 20' 40' 80'

DLR Group
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olsson

7301 West 133rd Street, Suite 200
 Overland Park, KS 66213-4750 TEL: 913.381.1170 www.olsson.com

LEE'S SUMMIT MIDDLE SCHOOL #4

Lee's Summit, MO

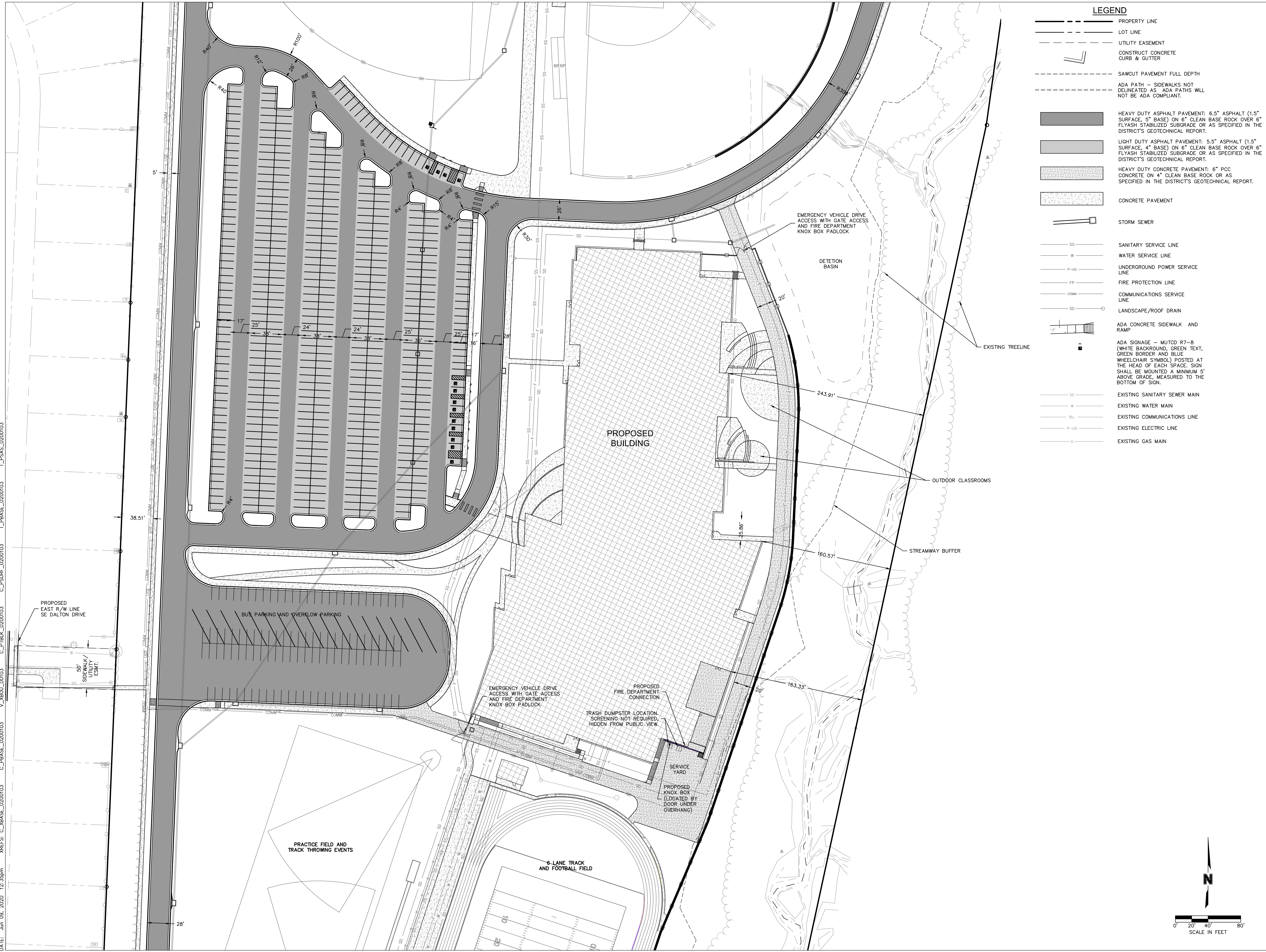
PRELIMINARY DEVELOPMENT PLAN
 Issue Date 05.08.20
 REVISIONS

1	REVISED PER CITY COMMENTS	06.09.2020
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13-20102-00
 SITE PLAN

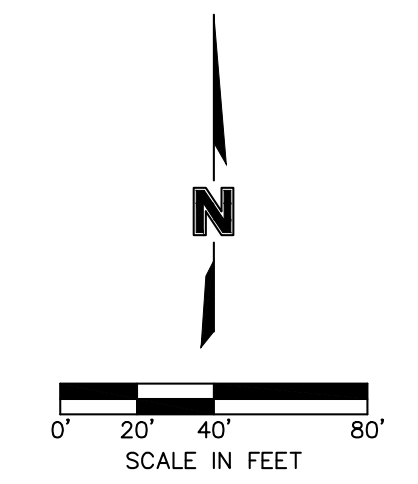
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LEGEND

- PROPERTY LINE
- LOT LINE
- UTILITY EASEMENT
- CONSTRUCT CONCRETE CURB & GUTTER
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Lee's Summit, MO

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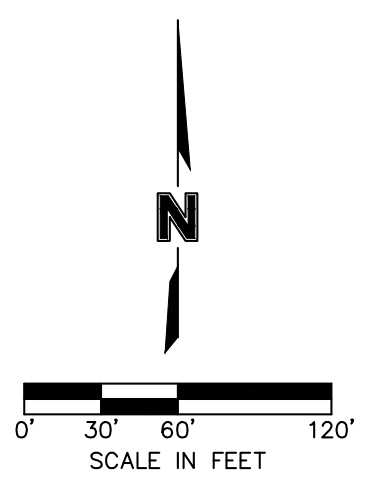
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LEGEND

- PROPERTY LINE
- EXISTING GRADE CONTOUR
- FINISHED GRADE CONTOUR
- RIDGE LINE
- VALLEY LINE
- RAMP
- CONCRETE CURB & GUTTER TYPE "B"
- CONCRETE CURB & GUTTER TYPE "B-DRY"
- CONCRETE CURB TYPE "C" MODIFIED



LEE'S SUMMIT MIDDLE SCHOOL #4

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13-20102-00
 OVERALL GRADING PLAN

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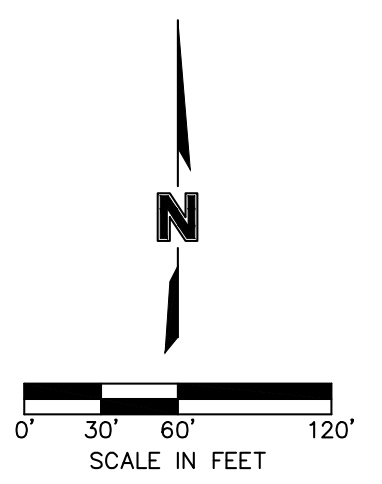


GRADES SHOWN IN THIS ARE BASED ON THE CURRENT OPINION OF THE FINAL GRADES FOR THE FUTURE CAPE DRIVE. UPON FINAL DESIGN, CONSTRUCTION DOCUMENTS WILL REFLECT GRADING IN THIS AREA TO THE APPROXIMATE SUBGRADE ELEVATION OF THE FINAL ROAD DESIGN AND THE NECESSARY COURSES FOR TEMPORARY DRAINAGE UNTIL THE FINAL ROAD IS CONSTRUCTED. NO GRADING FOR THE CONSTRUCTION OF CAPE DRIVE WILL OCCUR IN THE STREAM BUFFER ZONE UNTIL THE FINAL ROAD PLANS ARE APPROVED.

GRADE, TEMPORARY DITCH TO STREAM BUFFER WITH RIPRAP AT END

LEGEND

	PROPERTY LINE
	EXISTING GRADE CONTOUR
	FINISHED GRADE CONTOUR
	RIDGE LINE
	VALLEY LINE
	RAMP
	CONCRETE CURB & GUTTER TYPE "B"
	CONCRETE CURB & GUTTER TYPE "B-DRY"
	CONCRETE CURB TYPE "C" MODIFIED



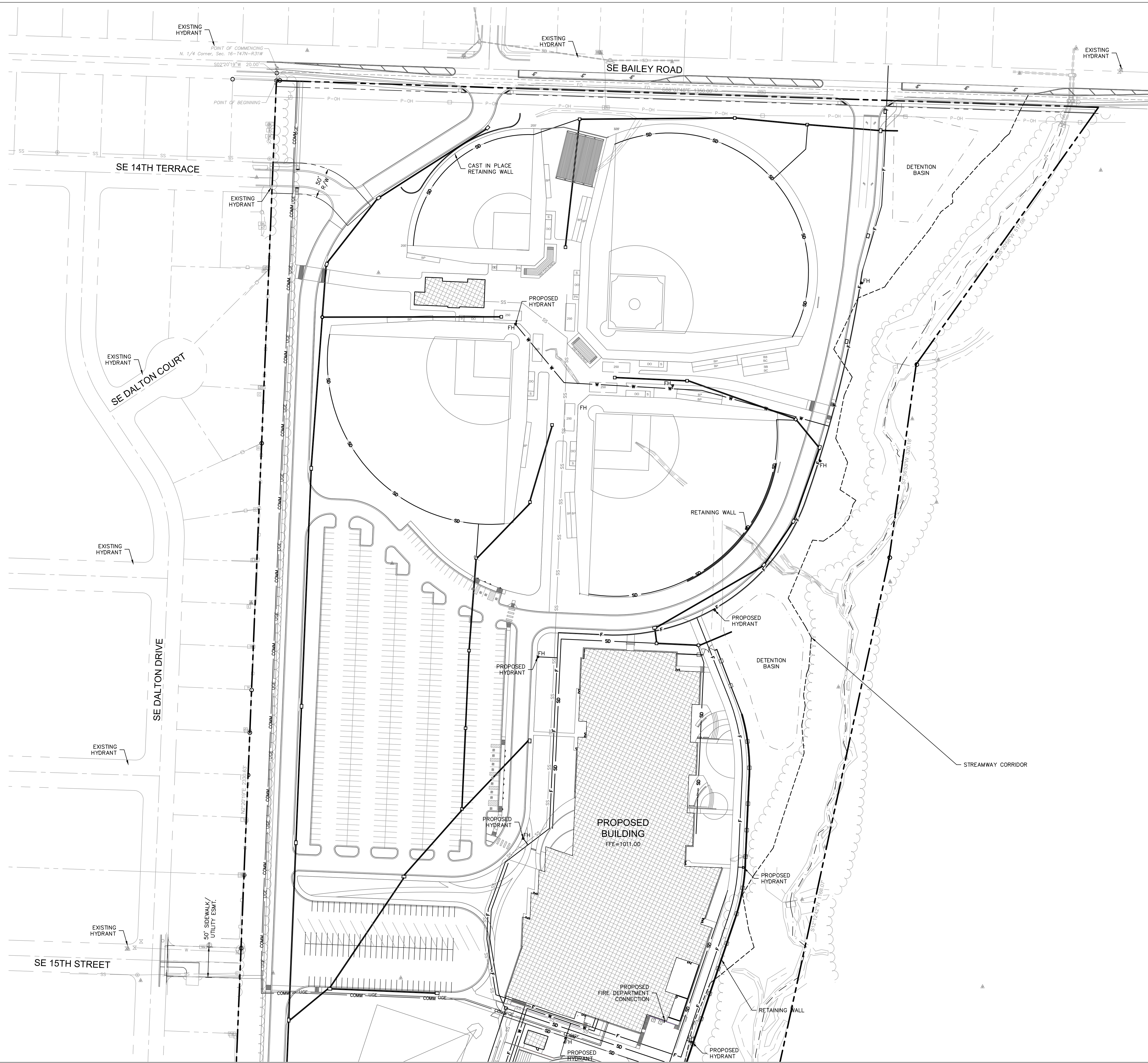
LEE'S SUMMIT MIDDLE SCHOOL #4

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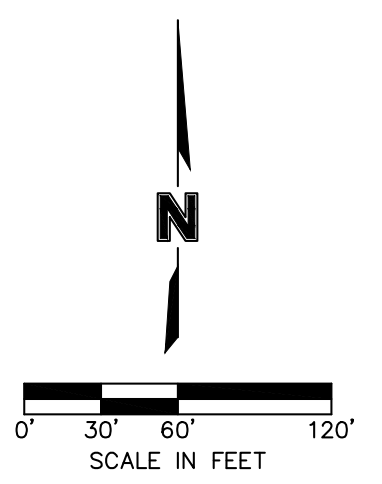
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13-20102-00
 OVERALL GRADING PLAN

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- LEGEND**
- PROPERTY LINE
 - - - LOT LINE
 - - - UTILITY EASEMENT
 - STORM SEWER
 - SS — SANITARY SERVICE LINE
 - W — WATER SERVICE LINE
 - P-UG — UNDERGROUND POWER SERVICE LINE
 - FP — FIRE PROTECTION LINE
 - COMM — COMMUNICATIONS SERVICE LINE
 - SD ○ TRENCH/LANDSCAPE/ROOF DRAIN
 - FH — FIRE HYDRANT
 - SS — EXISTING SANITARY SEWER MAIN
 - W — EXISTING WATER MAIN
 - TEL — EXISTING COMMUNICATIONS LINE
 - P-UG — EXISTING ELECTRIC LINE
 - G — EXISTING GAS MAIN



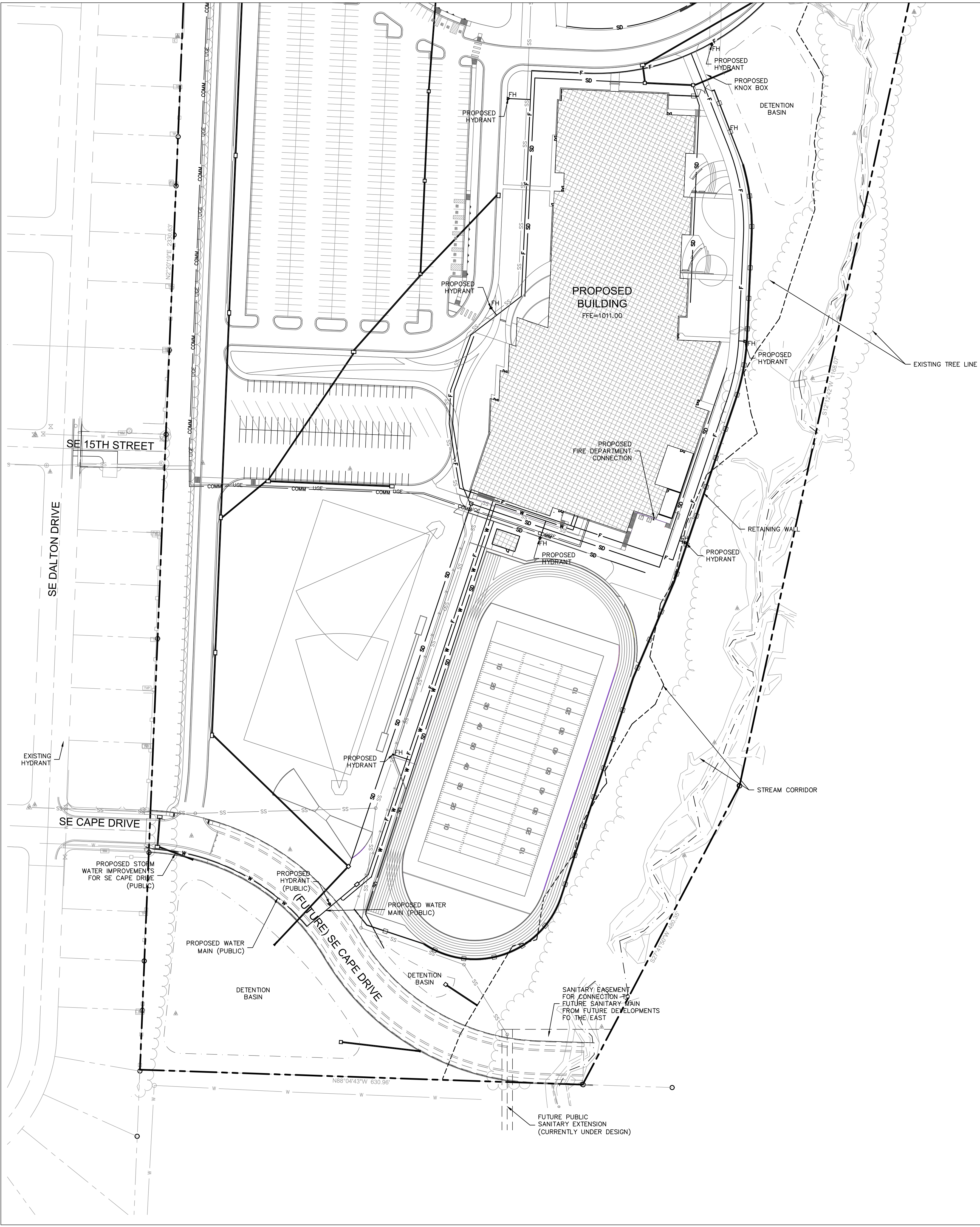
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13-20102-00
 UTILITY PLAN

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LEGEND

	PROPERTY LINE
	LOT LINE
	UTILITY EASEMENT
	STORM SEWER
	SANITARY SERVICE LINE
	WATER SERVICE LINE
	UNDERGROUND POWER SERVICE LINE
	FIRE PROTECTION LINE
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	EXISTING ELECTRIC LINE
	EXISTING GAS MAIN

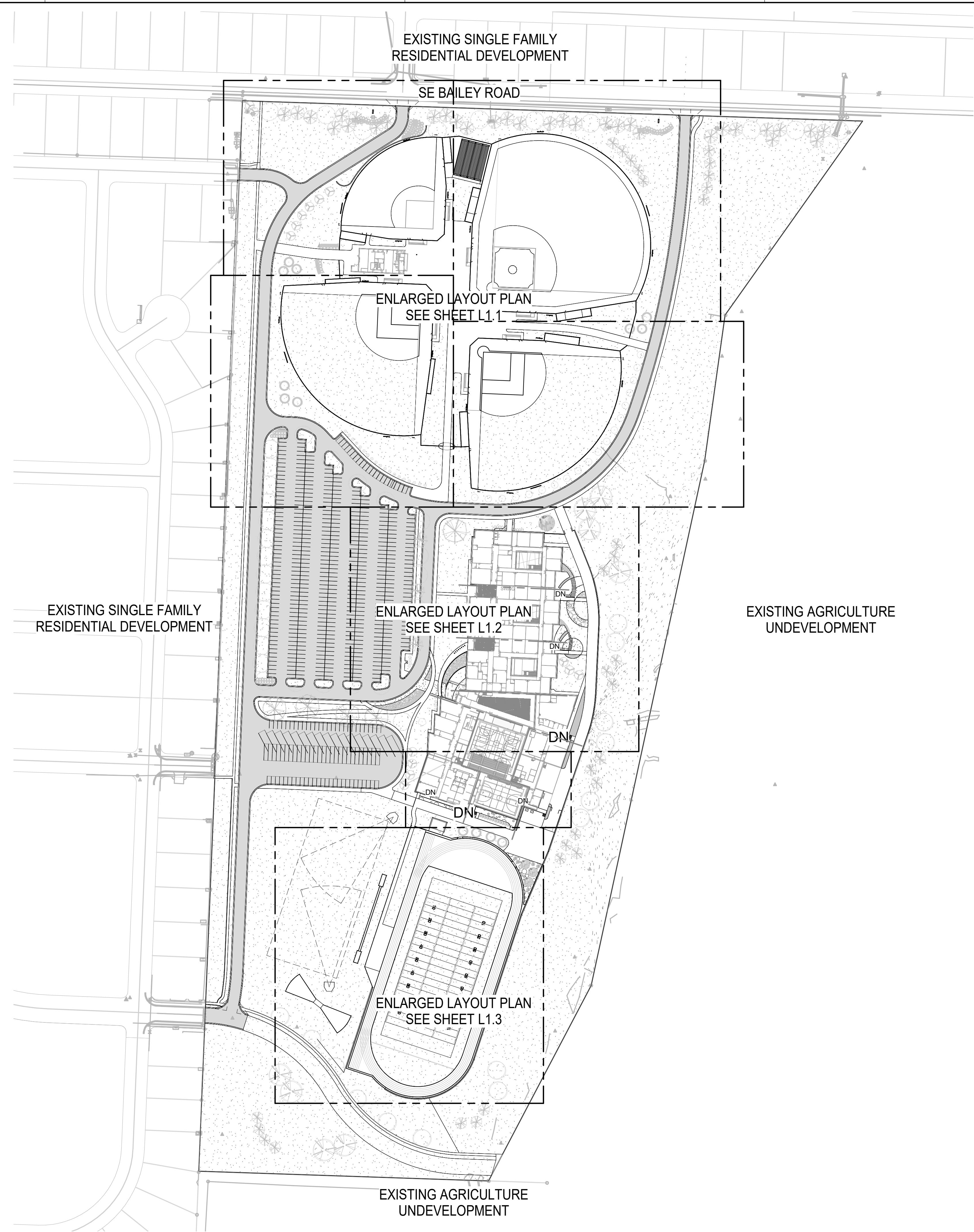
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 Lee's Summit, MO

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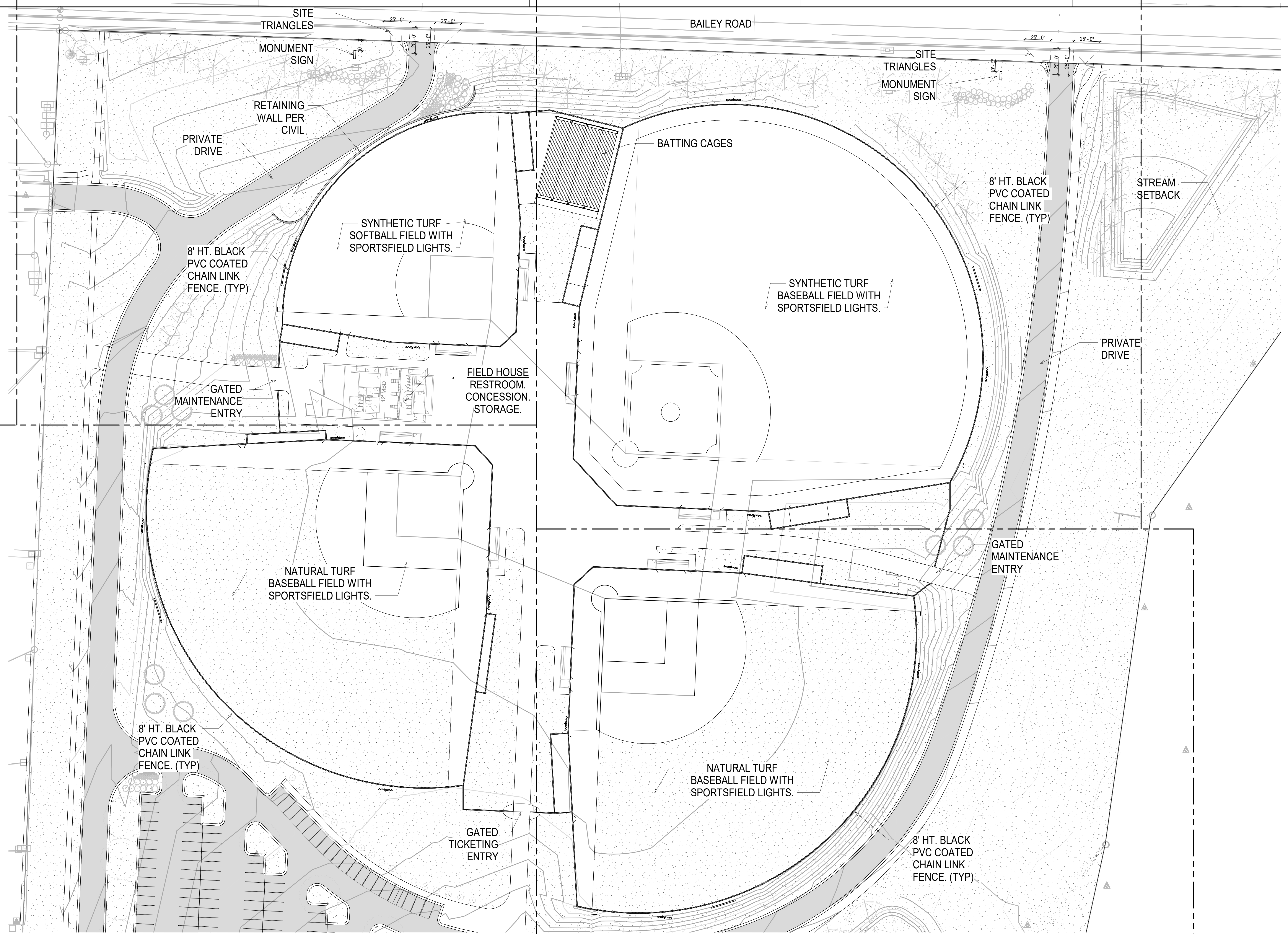
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 UTILITY PLAN

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1 PDP-Overall Layout Plan
PDP-L1.0 SCALE: 1" = 120'-0"

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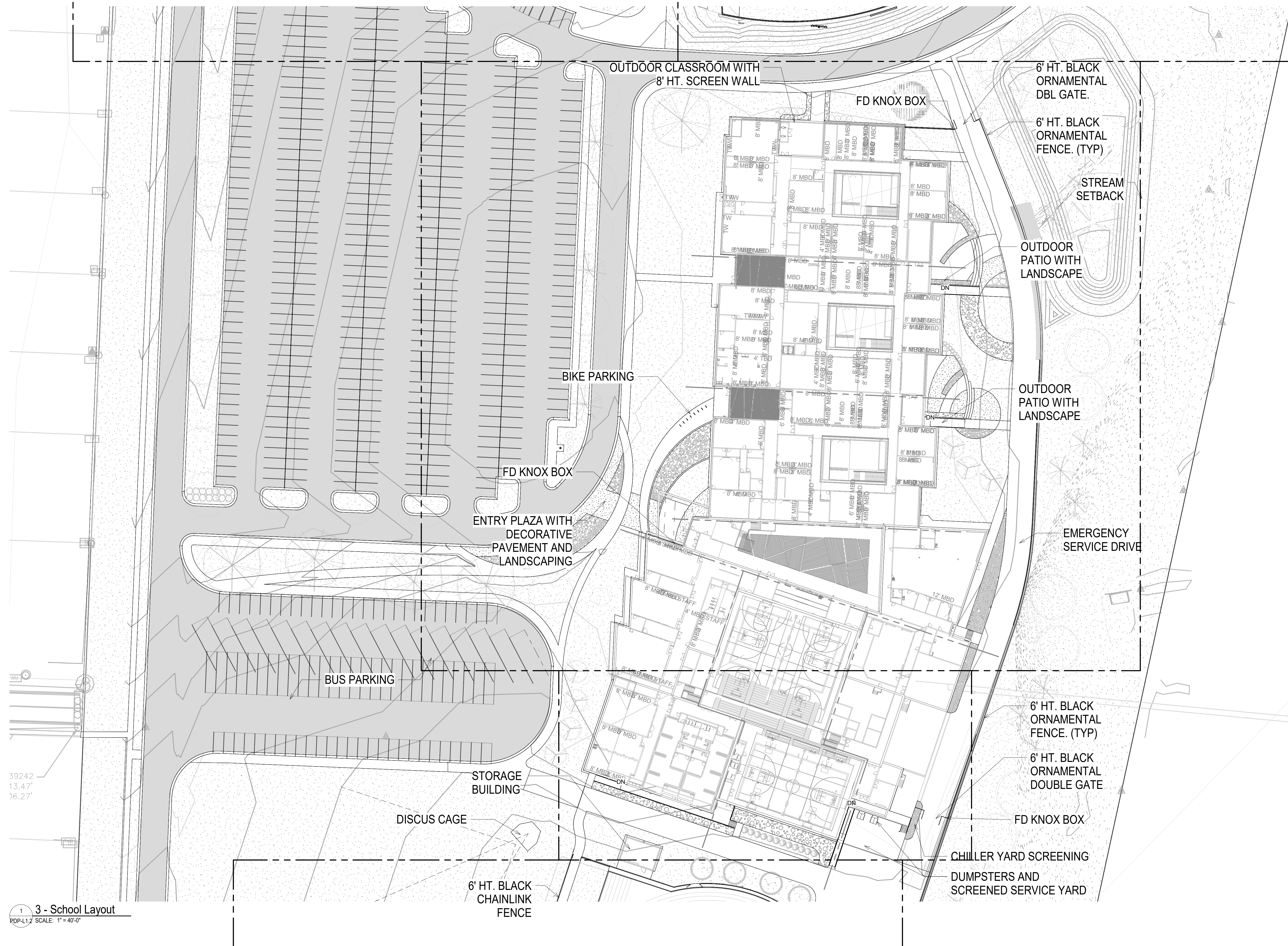
2 - Ballfield Layout

NOT FOR
CONSTRUCTION

LEE'S SUMMIT MIDDLE SCHOOL #4
LEE'S SUMMIT R-7 SCHOOL DISTRICT
1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

PRELIMINARY
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PLAN
06/09/20
REVISIONS

13-20102
ENLARGED
LAYOUT PLAN



1 3 - School Layout
PDP-L1.2 SCALE: 1" = 40'-0"

39242
13.47'
36.27'

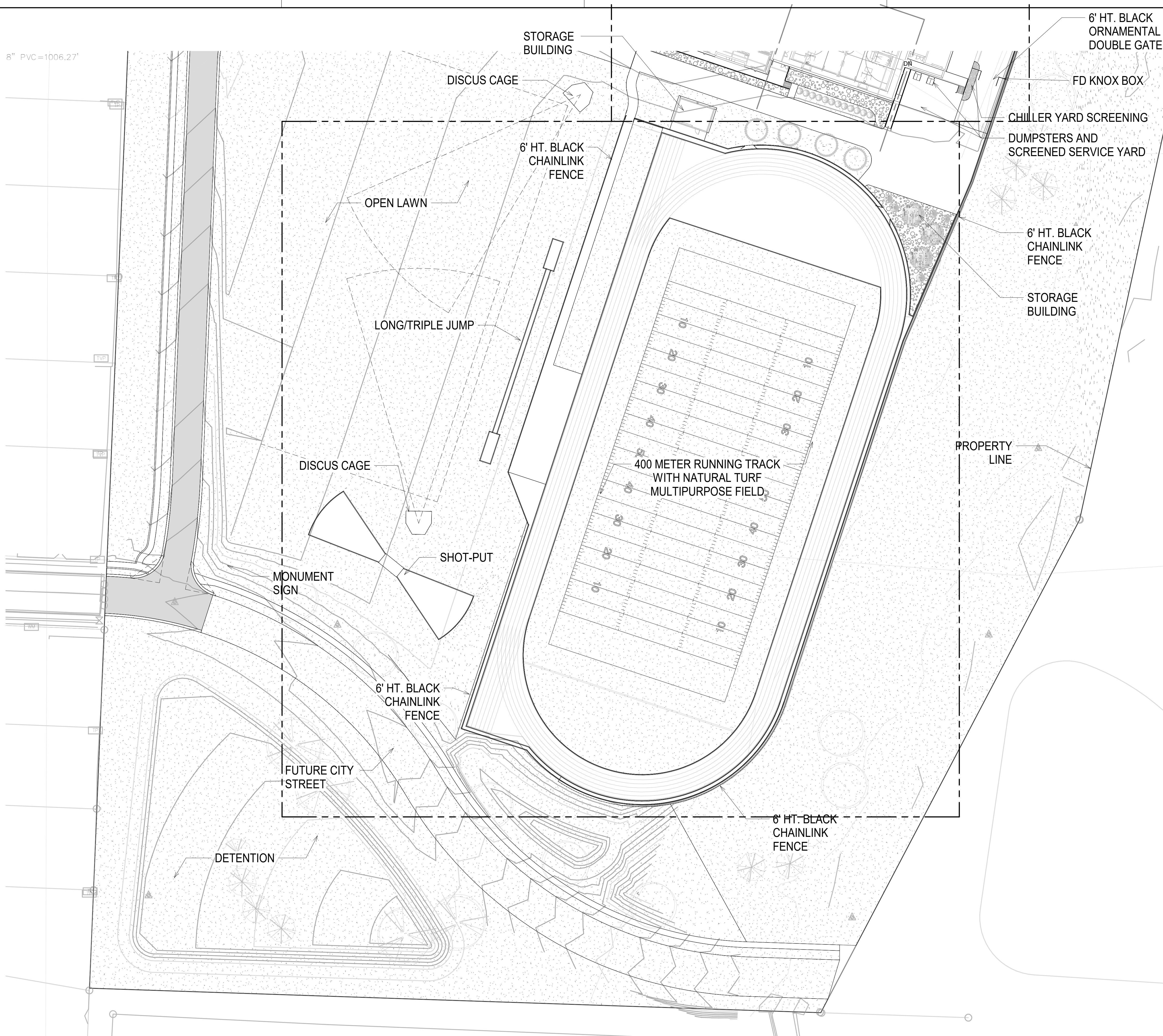
NOT FOR
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ENLARGED
LAYOUT PLAN

6" PVC=1006.27'



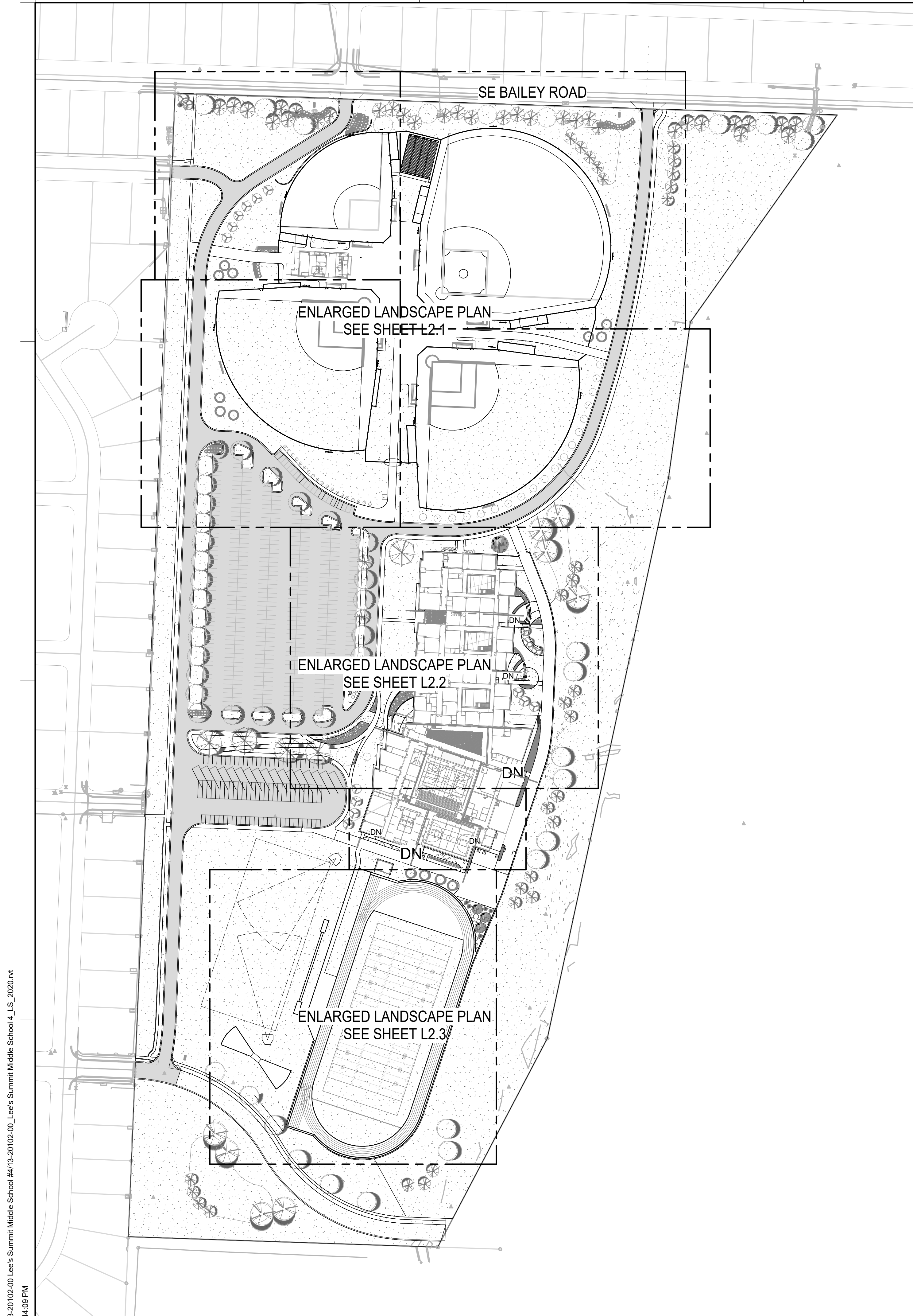
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NOT FOR
CONSTRUCTION

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13-20102
ENLARGED
LAYOUT PLAN



Code	Botanical/Common	Cont	Cal	Size	Quantity
AS	Acer saccharum 'Autumn Splendor' / Autumn Splendor Sugar Maple	-	3"	Cal.	39
BH	Betula nigra 'Heritage' / Heritage River Birch	-	3"	Cal.	8
CA	Carpinus caroliniana 'Autumn Fire' / Autumn Fire American Hornbeam	-	3"	Cal.	35
CP	Celtis occidentalis 'Prairie Pride' / Prairie Pride Hackberry	-	3"	Cal.	16
QB	Quercus bicolor / Swamp White Oak	-	3"	Cal.	5
QC	Quercus bicolor 'Bonnie and Mike' TM / Beacon Oak	-	3"	Cal.	19
TS	Taxodium distichum 'Shawnee Brave' TM / Bald Cypress	-	3"	Cal.	30
EVERGREEN TREES	Botanical/Common	Cont	Cal	Size	Quantity
JB	Juniperus chinensis 'Blue Heaven' / Blue Heaven Juniper	-	8'-10'	HT.	9
JA	Juniperus virginiana 'Keteleeri' / Keteleeri Juniper	-	8'-10'	HT.	12
PF	Picea pungens 'Fat Albert' / Colorado Spruce	-	8'-10'	HT.	6
PS	Pinus strobus / White Pine	-	8'-10'	HT.	4
ORNAMENTAL TREES	Botanical/Common	Cont	Cal	Size	Quantity
AA	Amelanchier arborea 'Autumn Brilliance' / Downy Serviceberry	-	2"		13
MG	Magnolia virginiana 'Green Shadow' / Green Shadow Magnolia	-	2"		1
MP	Malus x 'Jefspire' TM / Purple Spire Columnar Crabapple	-	2"		27
MS	Malus x 'Spring Snow' / Spring Snow Crabapple	-	2"		25
Grasses	Botanical/Common	Cont			Quantity
BB	Bouteloua gracilis 'Blonde Ambition' / Blue Grama	1 GAL			233
CL	Chasmanthium latifolium / Wood Oats	1 GAL			112
PERENNIAL	Botanical/Common	Cont			Quantity
SM	Salvia x sylvestris 'May Night' / May Night Sage	1 GAL			35
SHRUBS	Botanical/Common	Cont			Quantity
AI	Aronia melanocarpa 'Low Scape Mound' / Red Chokeberry	3 GAL			12
CH	Calliocalyx x 'NCCX2' TM / Pearl Glam Beauty Berry	3 GAL			77
FB	Fothergilla gardenii 'Blue Mist' / Blue Mist Fothergilla	3 GAL			25
HA	Hydrangea quercifolia 'Amethyst' / Amethyst Oakleaf Hydrangea	3 GAL			16
HS	Hydrangea quercifolia 'Sike's Dwarf' / Sike's Dwarf Oakleaf Hydrangea	3 GAL			20
RG	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac	3 GAL			6
EVERGREEN SHRUBS	Botanical/Common	Cont			Quantity
BG	Buxus x 'Green Mountain' / Green Mountain Boxwood	3 GAL			11
JO	Juniperus virginiana 'Grey Owl' / Eastern Redcedar	3 GAL			95

PLANTING REQUIREMENTS

SEC. 8.790 - LANDSCAPING-MIN. REQUIREMENTS

STREET FRONTAGE:
 ONE TREE SHALL BE PLANTED FOR EACH 30 FEET OF STREET FRONTAGE. MIN. 20' WIDE LANDSCAPE STRIP SHALL BE PROVIDED ALONG THE LENGTH OF ANY STREET FRONTAGE
 ONE SHRUB SHALL BE PROVIDED FOR EACH 20' OF STREET FRONTAGE

STREET FRONTAGE PLANTING PROVIDED:

1350 LINEAR FEET OF STREET FRONTAGE / 30' = 45 TREES
 1350 LINEAR FEET OF STREET FRONTAGE / 20' = 68 SHRUBS
 47 DECIDUOUS TREES PROVIDED
 93 SHRUBS PROVIDED

SEC. 8.810 - PARKING LOT LANDSCAPING AND TREES

A LANDSCAPING ISLAND SHALL BE LOCATED AT THE END OF EVERY PARKING BAY BETWEEN THE LAST PARKING SPACE AND ADJACENT TRAVEL AISLE OR DRIVEWAY NO LESS THAN 9' WIDE & 1/2 THE LENGTH OF THE ADJACENT PARKING.

TOTAL
 513 PARKING STALLS (Does not include bus & overflow)
 8 PARKING BAYS = 8 LANDSCAPING ISLANDS REQUIRED

SEC. 8.900 - REQUIRED TYPICAL IMPACT SCREENS

EXISTING DENSE TREE PLANTINGS TO REMAIN & PROVIDE REQUIRED SCREENING

SEC. 8.790.B.1 OPEN YARD SHRUB REQ'T.

MINIMUM OF 2 SHRUBS PER 5,000 SQUARE FEET OF TOTAL LOT AREA REQUIRED

TOTAL LOT AREA: 117,130 SF / 5,000 SF = 23.5 x 2 (SHRUBS/5,000 SF) = 47 TOTAL SHRUBS REQUIRED

TOTAL SHRUBS PROVIDED: 129

SEC. 8.810.A. PARKING LOT LANDSCAPE ISLANDS

LANDSCAPE ISLANDS, STRIPS OR OTHER PLANTING AREAS SHALL BE LOCATED WITHIN THE PARKING LOT AND SHALL CONSTITUTE AT LEAST 5% OF THE ENTIRE AREA DEVOTED TO PARKING SPACES

ENTIRE PARKING AREA: 266,995 SF

LANDSCAPE AREA WITHIN PARKING AREA: 38,450 SF

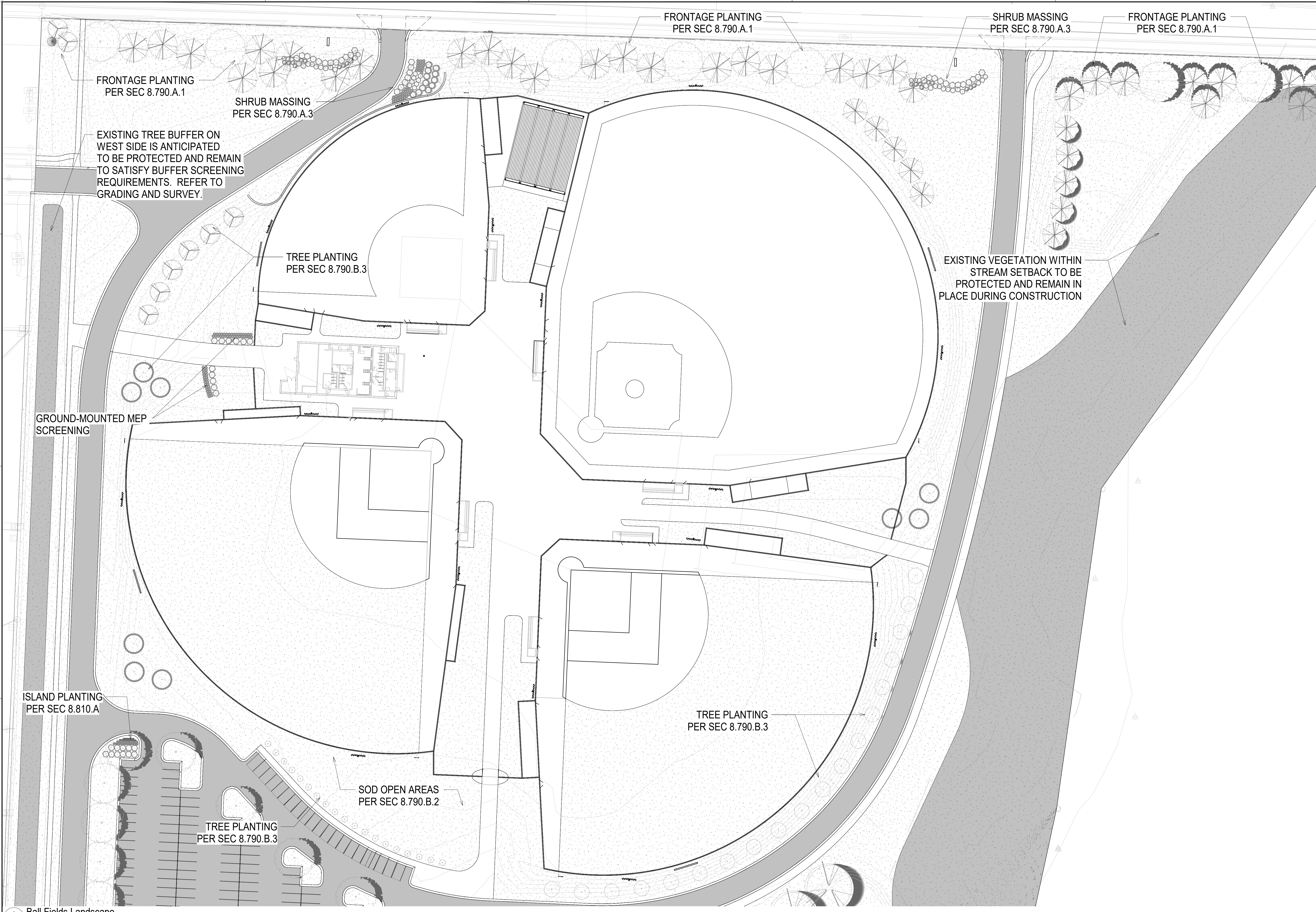
38,450 SF / 266,995 SF = 14.4% TOTAL PARKING AREA DESIGNATED FOR PLANTING

LANDSCAPE NOTES:

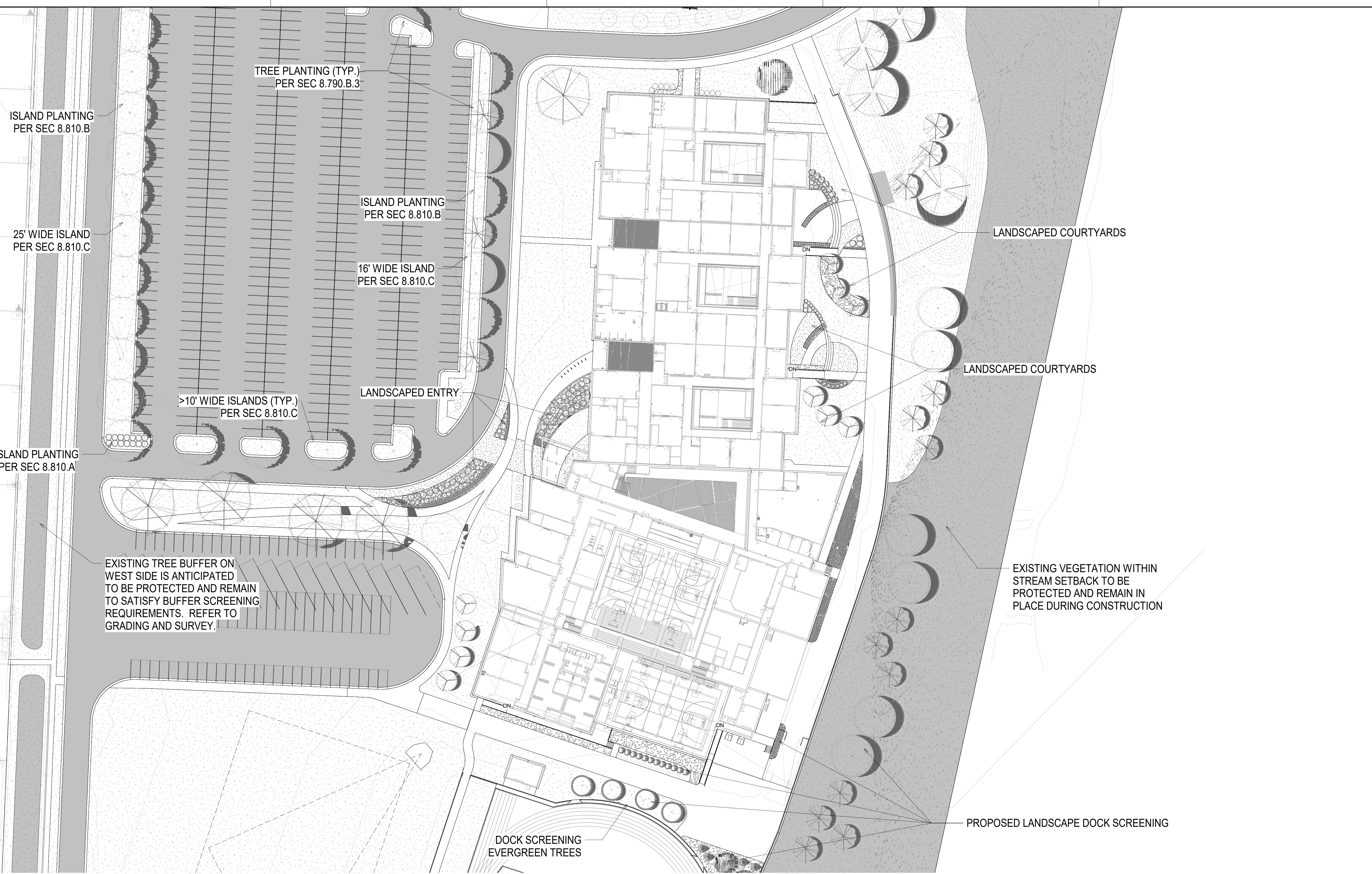
- THE CONTRACTOR WILL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND STRUCTURES BEFORE COMMENCING WORK. THE CONTRACTOR WILL CONDUCT HIS WORK SO AS TO PREVENT INTERRUPTION OF SERVICE OR DAMAGE TO THEM. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES AND STRUCTURES.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES BEFORE STARTING ANY WORK.
- EXISTING UNDERGROUND (UG) UTILITIES AND DRAINAGE STRUCTURES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE INDIVIDUAL CONTRACTORS TO NOTIFY THE UTILITY COMPANIES TO LOCATE UTILITIES BEFORE ACTUAL CONSTRUCTION.
- THE CONTRACTOR WILL SHOW PROOF OF PROCUREMENT, SOURCES, QUANTITIES AND VARIETIES FOR ALL SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND ANNUALS.
- SUBSTITUTIONS WILL BE ALLOWED ONCE THE CONTRACTOR HAS EXHAUSTED ALL SOURCES FOR THE SPECIFIED MATERIAL, AND HAS PROVEN THAT THE SPECIFIED MATERIAL IS NOT AVAILABLE. THE CONTRACTOR MUST PROVIDE NAME AND VARIETY OF SUBSTITUTION IN THE SUBSTITUTION REQUEST FORM TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO TAGGING OR PLANTING. SUBSTITUTIONS WILL BE NEAREST EQUIVALENT SIZE OF VARIETY OF PLANT HAVING SAME ESSENTIAL CHARACTERISTICS.
- SIZE AND QUALITY OF PLANT MATERIAL WILL CONFORM TO AMERICAN STANDARDS FOR NURSERY STOCK, ANSI 280-1992, OR MOST RECENT EDITION.
- ALL PLANT MATERIAL WILL BE NURSERY GROWN, SOUND, HEALTHY, VIGOROUS AND FREE FROM INSECTS, DISEASE AND INJURIES, WITH HABIT OF GROWTH THAT IS NORMAL FOR THE SPECIES. SIZES WILL BE EQUAL TO OR EXCEEDING SIZES INDICATED ON THE PLANT LIST. THE CONTRACTOR WILL SUPPLY PLANTS IN QUANTITY AS SHOWN ON THE DRAWINGS.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING POSITIVE SURFACE DRAINAGE IS PROVIDED IN ALL PLANTING AND TURF AREAS. ALL GRADE SURFACES WILL BE FINISHED TO UNIFORM GRADES AND SLOPED IN SUCH A MANNER TO BE FREE OF DEPRESSIONS THAT CAUSE AREAS OF STANDING WATER. THE CONTRACTOR WILL REPORT ANY CONFLICTS WITH THIS REQUIREMENT TO THE LANDSCAPE ARCHITECT/OWNER FOR RESOLUTION PRIOR TO FINAL OPERATIONS.
- THE CONTRACTOR WILL REPORT SUB-SURFACE SOIL OR DRAINAGE ISSUES TO THE LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL STAKE PLANT LOCATIONS IN THE FIELD AND HAVE APPROVAL BY THE LANDSCAPE ARCHITECT BEFORE PLANT PITS ARE EXCAVATED AND BEFORE PROCEEDING WITH INSTALLATION.
- TREES, SHRUBS & GROUND COVERS SHALL BE LAID OUT IN A UNIFORM AND CONSISTENT PATTERN.
- CONTRACTOR TO PLACE MULCH AROUND ALL TREES AND IN ALL PLANTING BEDS UNLESS OTHERWISE NOTED, TO A DEPTH OF 3" OR AS DESCRIBED IN THE SPECIFICATIONS. ALL PLANTING BEDS TO BE SEPARATED FROM LAWN AREAS WITH SPECIFIED EDGING OR CONCRETE CURB EDGE PER DRAWINGS.
- ELEVATION OF TOP OF MULCH SHALL BE 1/2" MIN. BELOW ANY ADJACENT PAVEMENT OR 2" MIN. BELOW FINISHED FLOOR ELEVATION.
- ALL SHRUB BEDS SHALL BE MULCHED WITH SPECIFIED ORGANIC OR DECORATIVE AGGREGATE MULCH AND SEPARATED FROM LAWN AREAS WITH SPECIFIED EDGING OR CONCRETE CURB EDGE PER DRAWINGS.
- CONTRACTOR SHALL FINE GRADE AND SEED ALL AREAS DISTURBED DURING CONSTRUCTION AND ESTABLISH NEW LAWN AREA, NOT DESIGNATED FOR SOIL, NATIVE MEADOW, OR PLANTING BEDS. CONTRACTOR TO SEED ALL AREAS WITHIN CONTRACT LIMITS NOT COVERED BY PAVING, BUILDINGS, OR PLANTING BEDS UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING ACTUAL AREAS OF SEED AND QUANTITIES REQUIRED FOR COVERAGE.
- ALL PLANT MATERIALS DELIVERED TO THE SITE FOR APPROVAL AND INSTALLATION SHALL BE IDENTIFIED AND TAGGED. TO ENSURE THE PLANTS PROVIDED ARE AS SPECIFIED. PLANTS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- ALL TREES SHALL BE CALLIPERED AND UNDERSIZED TREES SHALL BE REJECTED.
- PLANT QUANTITIES ARE PROVIDED FOR CONTRACTOR CONVENIENCE ONLY. PROVIDE AND INSTALL ALL PLANTS SHOWN ON THE PLANTING PLANS.
- SPACING OF ALL PLANTINGS TO BE AS SHOWN ON PLANS.
- ALL LANDSCAPE AREAS AND PLAYING FIELD AREAS TO HAVE A MINIMUM OF 6" TOPSOIL.
- ALL TURF AREAS TO HAVE 4" MINIMUM OF IMPORTED TOPSOIL - SEE SPECS FOR SOIL AMENDMENTS.
- PROVIDE, INSTALL, AND INCORPORATE SOIL AMENDMENTS PER RECOMMENDATIONS PER THE SOILS REPORT.

BIM 360//13-20102-00 Lee's Summit Middle School #4/13-20102-00_Lee's Summit Middle School 4_LS_2020.rvt
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 PDP-L2.0 SCALE: 1" = 120'-0"

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1 School Landscape Plan
PDP-L2.2 SCALE: 1" = 40'-0"

NOT FOR
CONSTRUCTION

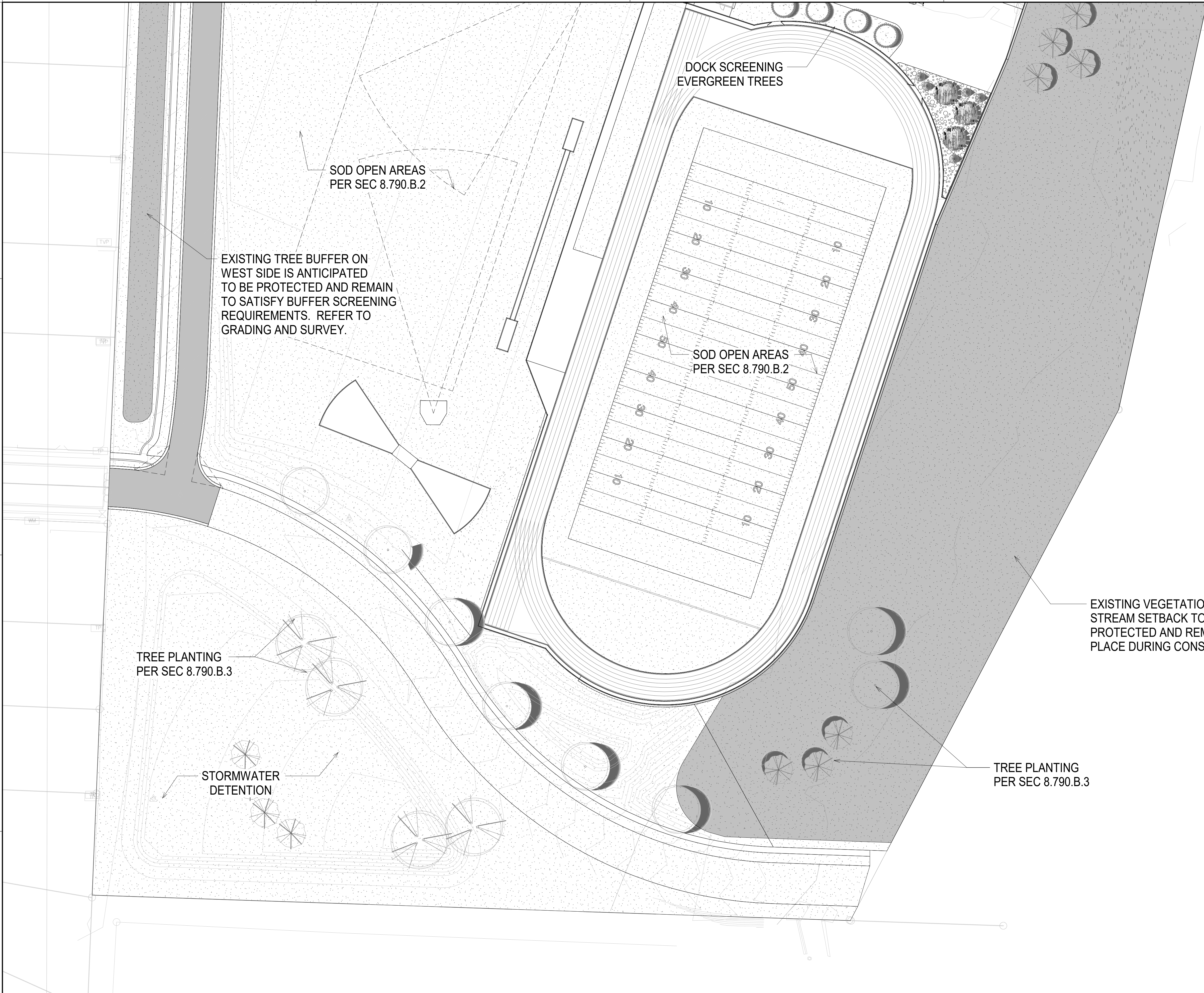
LEE'S SUMMIT MIDDLE SCHOOL #4
LEE'S SUMMIT R-7 SCHOOL DISTRICT
1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

PRELIMINARY
DEVELOPMENT
PLAN
06/09/20
REVISIONS

13-20102

ENLARGED
LANDSCAPE PLAN

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1 Enlarged Track Landscape
PDP-L2.3 SCALE: 1" = 40'-0"

NOT FOR
CONSTRUCTION

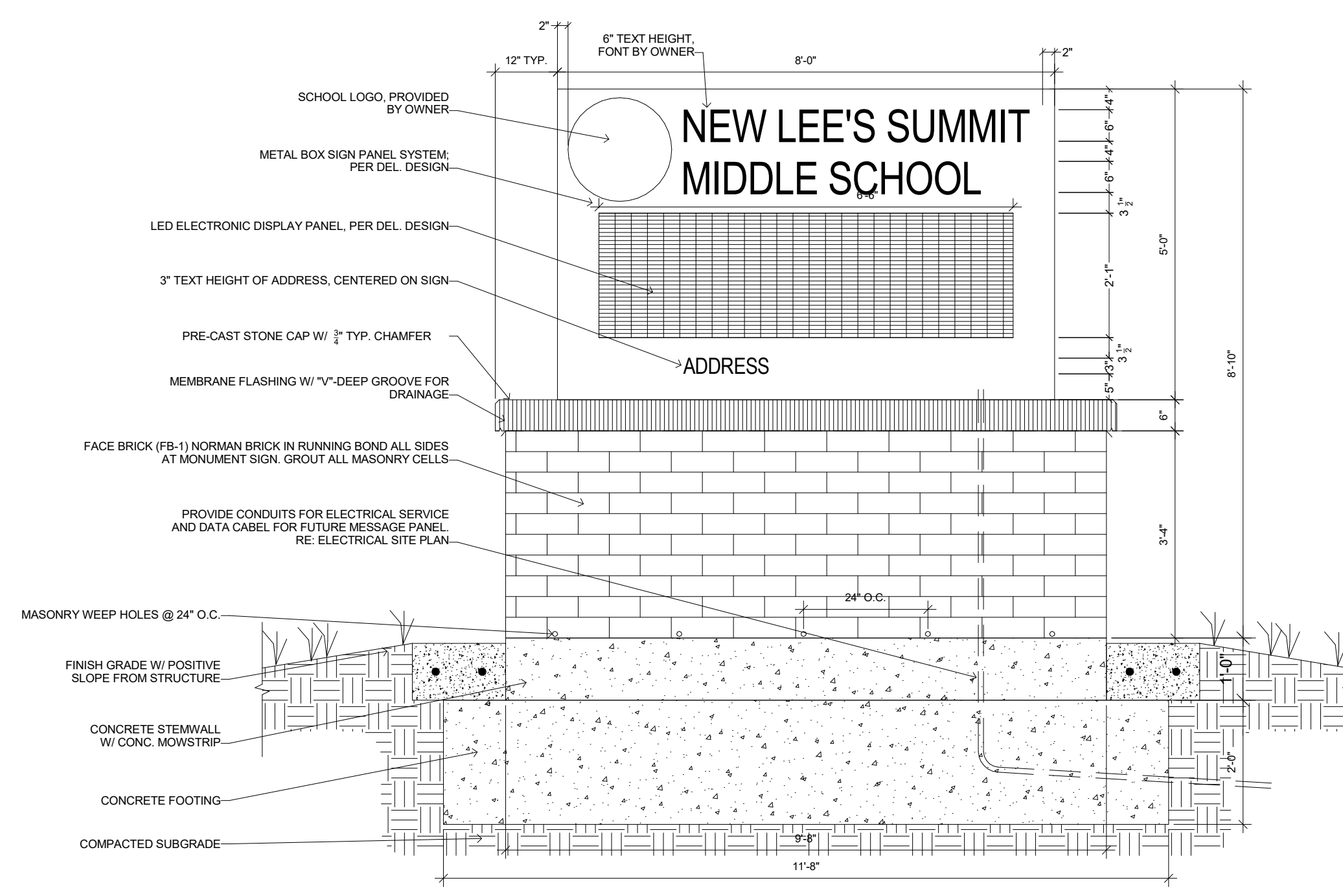
LEE'S SUMMIT MIDDLE SCHOOL #4
LEE'S SUMMIT R-7 SCHOOL DISTRICT
1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

PRELIMINARY
DEVELOPMENT
PLAN
06/09/20
REVISIONS

13-20102

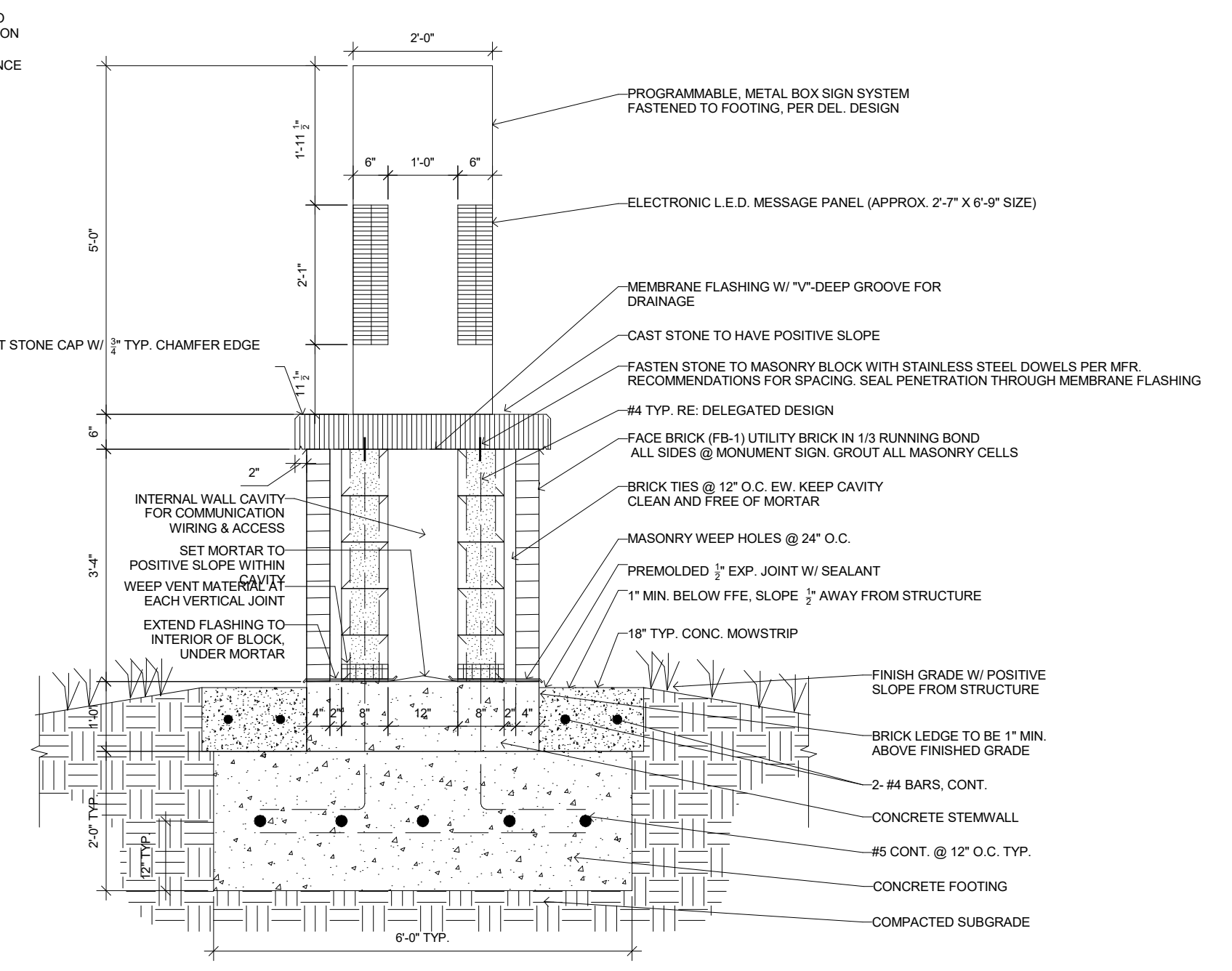
ENLARGED
LANDSCAPE PLAN

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MONUMENT SIGN ELEVATION

NOTE:
1. EACH MONUMENT SIGN FACE TO BE A TOTAL OF 40 SF PER DIVISION
11 SIGNS PER UNIFIED GOVERNMENT ZONING ORDINANCE



MONUMENT SIGN SECTION

SIGN ELEVATION

1 MONUMENT SIGNS
RDP-L3.1 SCALE: 1/2" = 1'-0"

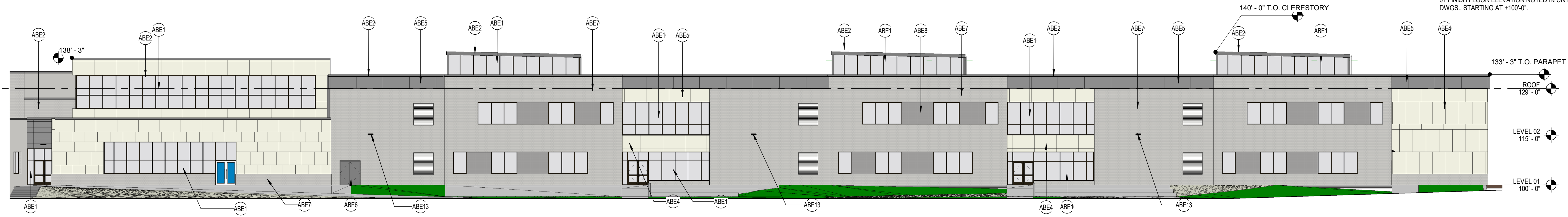
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KEYNOTE LEGEND

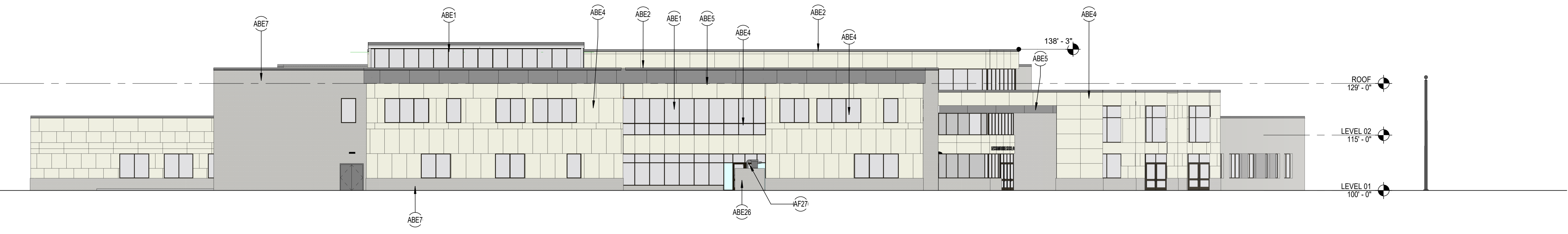
ABE1	ALUMINUM STOREFRONT SYSTEM (DARK BRONZE) WITH CLEAR GLAZING
ABE2	PREFINISHED METAL COPING
ABE4	CEMENTITIOUS WALL PANEL (CP-1) AMERICAN FIBER CEMENT S-282 SATURN, OR EQ.
ABE5	CEMENTITIOUS WALL PANEL (CP-2) AMERICAN FIBER CEMENT S-030 MERCURY, OR EQ.
ABE6	HOLLOW METAL DOOR AND FRAME
ABE7	FACE BRICK (FB-1) MODULAR, ACME MARBLE GRAY VELOUR PEP166, OR EQ.
ABE8	FACE BRICK (FB-2) MODULAR, ACME STEELE GRAY VELOUR PEP160, OR EQ.
ABE13	BUILDING MOUNTED LIGHT FIXTURE, RE. ELEC.
ABE22	ALUMINUM DIMENSIONAL LETTER SIGNAGE
ABE26	CANTILEVERED MASONRY SCREEN WALL AT DUST COLLECTORS

GENERAL NOTES

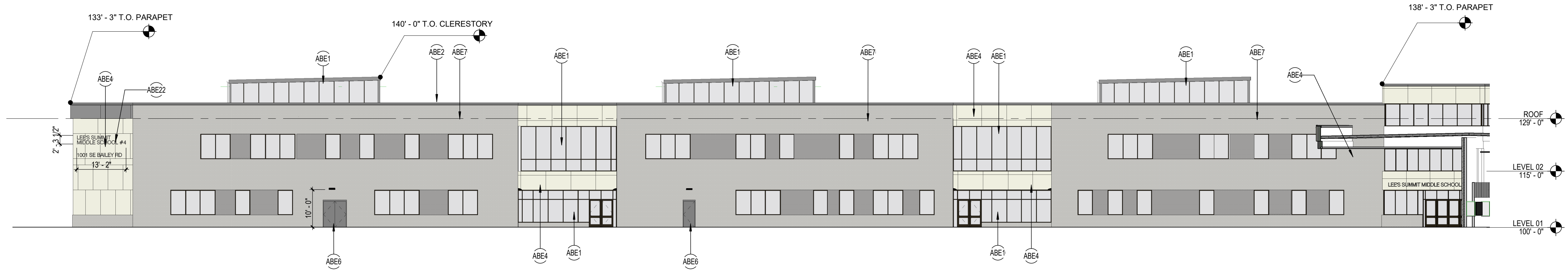
- ELEVATIONS ARE SHOWN RELATIVE TO LEVEL 01 FINISH FLOOR ELEVATION NOTED IN CIVIL DWGS., STARTING AT +100'-0".



11 EAST ELEVATION-ACADEMICS
 A5.01 SCALE: 1/16" = 1'-0"



31 NORTH ELEVATION-ACADEMICS
 A5.01 SCALE: 1/16" = 1'-0"



51 WEST ELEVATION-ACADEMICS-MAIN ENTRY
 A5.01 SCALE: 1/16" = 1'-0"

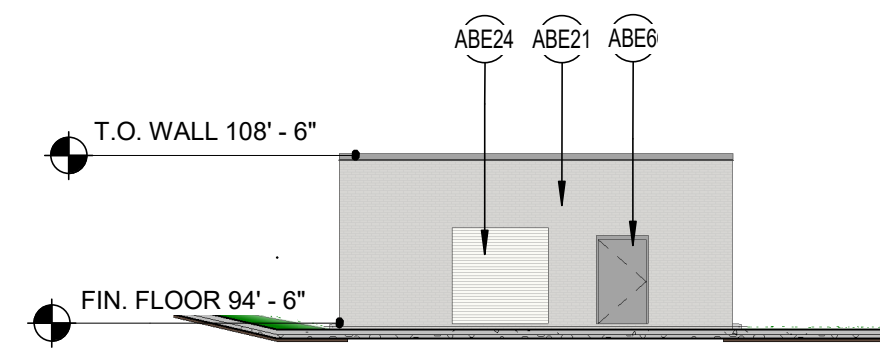
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GENERAL NOTES

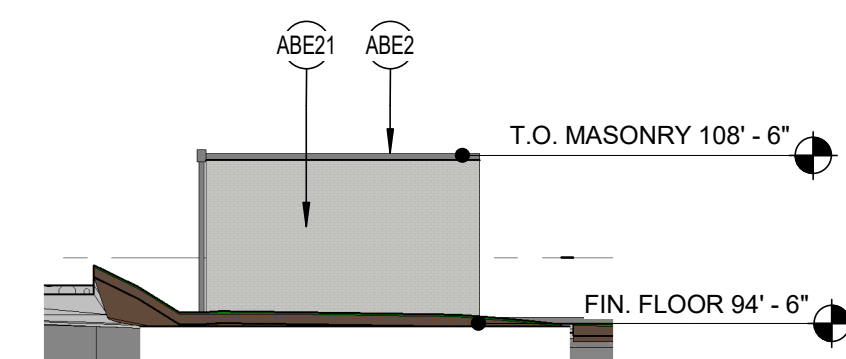
- ELEVATIONS ARE SHOWN RELATIVE TO LEVEL 01 FINISH FLOOR ELEVATION NOTED IN CIVIL DWGS., STARTING AT +100'-0".

KEYNOTE LEGEND

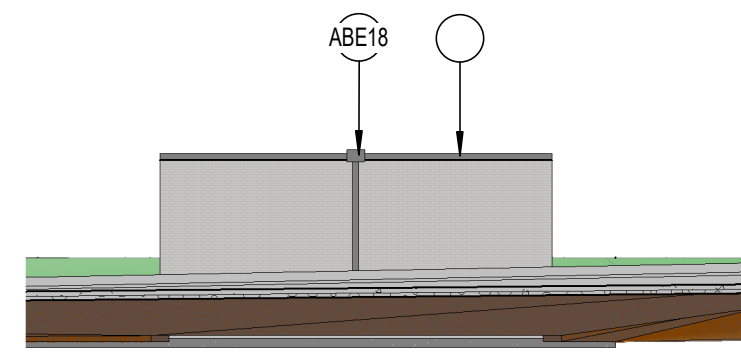
- ABE1 ALUMINUM STOREFRONT SYSTEM (DARK BRONZE) WITH CLEAR GLAZING
- ABE2 PREFINISHED METAL COPING
- ABE4 CEMENTITIOUS WALL PANEL (CP-1) AMERICAN FIBER CEMENT S-282 SATURN, OR EQ.
- ABE5 CEMENTITIOUS WALL PANEL (CP-2) AMERICAN FIBER CEMENT S-030 MERCURY, OR EQ.
- ABE6 HOLLOW METAL DOOR AND FRAME
- ABE7 FACE BRICK (FB-1) MODULAR, ACME MARBLE GRAY VELOUR PEP166, OR EQ.
- ABE8 FACE BRICK (FB-2) MODULAR, ACME STEELE GRAY VELOUR PEP180, OR EQ.
- ABE9 THIN BRICK (TB-1) OVER PRECAST. THIN BRICK TO MATCH FB-1
- ABE13 BUILDING MOUNTED LIGHT FIXTURE, RE: ELEC.
- ABE17 ALUMINUM WALL LOUVER, RE: MECH. CONDUCTOR HEAD WITH DOWNSPOUT W/ BOOT TO STORM
- ABE21 GROUND FACE MASONRY BLOCK
- ABE22 ALUMINUM DIMENSIONAL LETTER SIGNAGE
- ABE24 OVERHEAD COILING DOOR
- ABE25 OVERHEAD COUNTER DOOR
- ABE27 CANTILEVERED MASONRY AND FACE BRICK SCREEN WALL AT MECH. EQUIPMENT
- ABE28 VERTICAL PICKET GALVANIZED METAL GATES ATT MECH. EQUIPMENT
- ABE29 ELECTRIC WATER COOLER



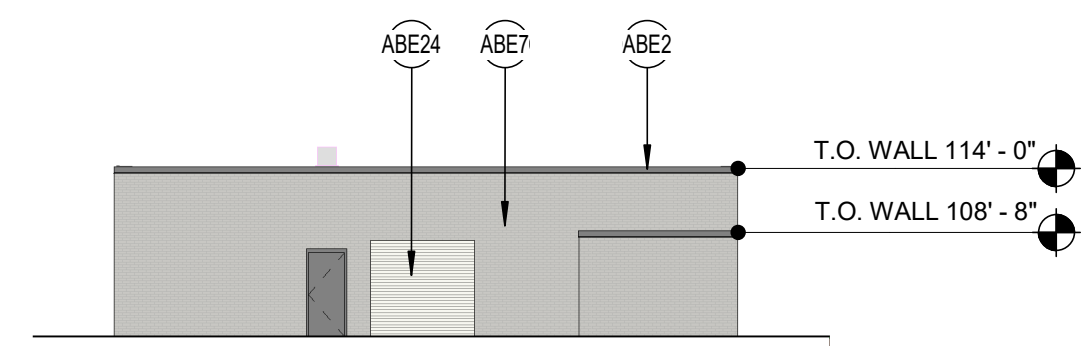
11 ATHLETIC STORAGE SW
SCALE: 1/16" = 1'-0"



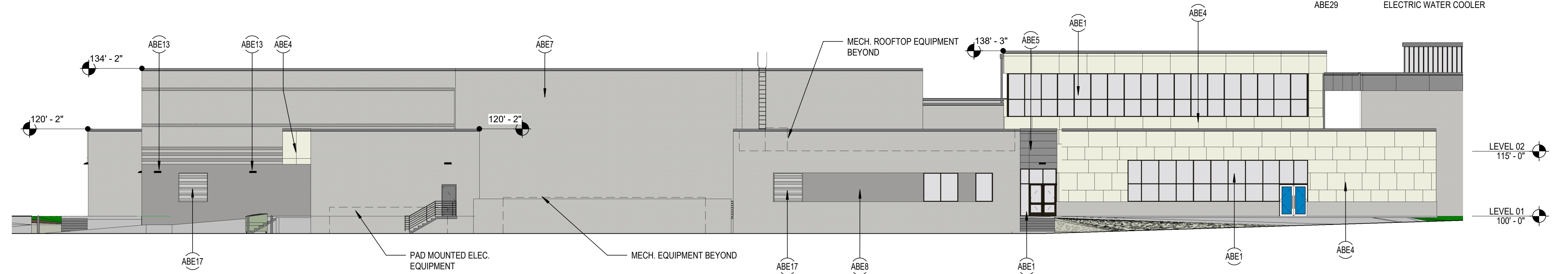
12 ATHLETIC STORAGE NW & SE
SCALE: 1/16" = 1'-0"



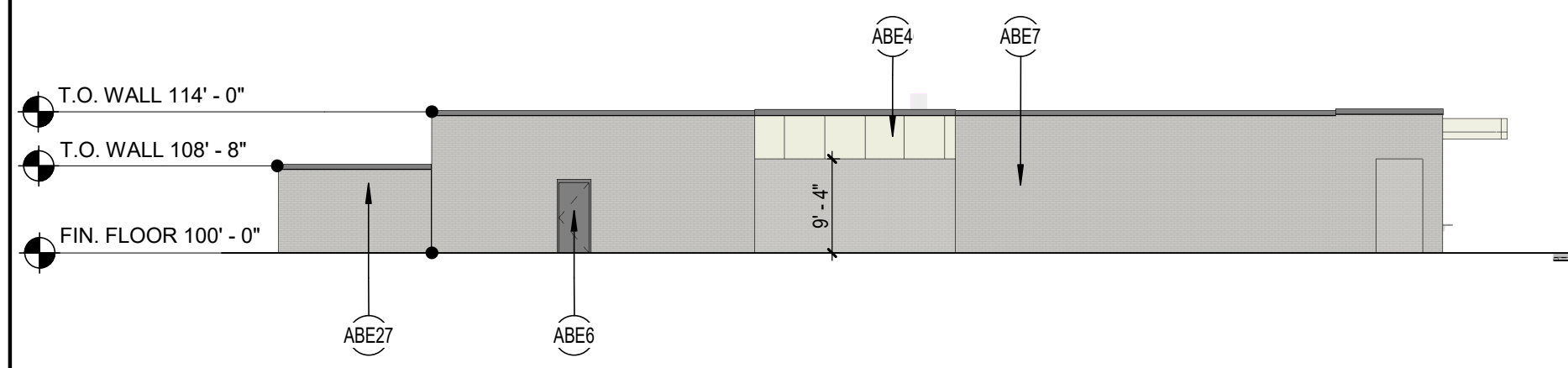
13 ATHLETIC STORAGE NE
SCALE: 1/16" = 1'-0"



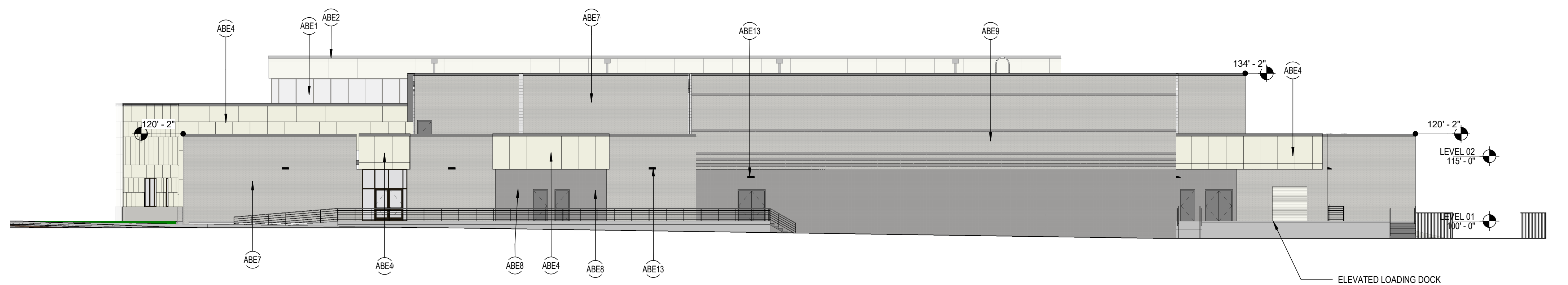
21 ATHLETIC BUILDING WEST
SCALE: 1/16" = 1'-0"



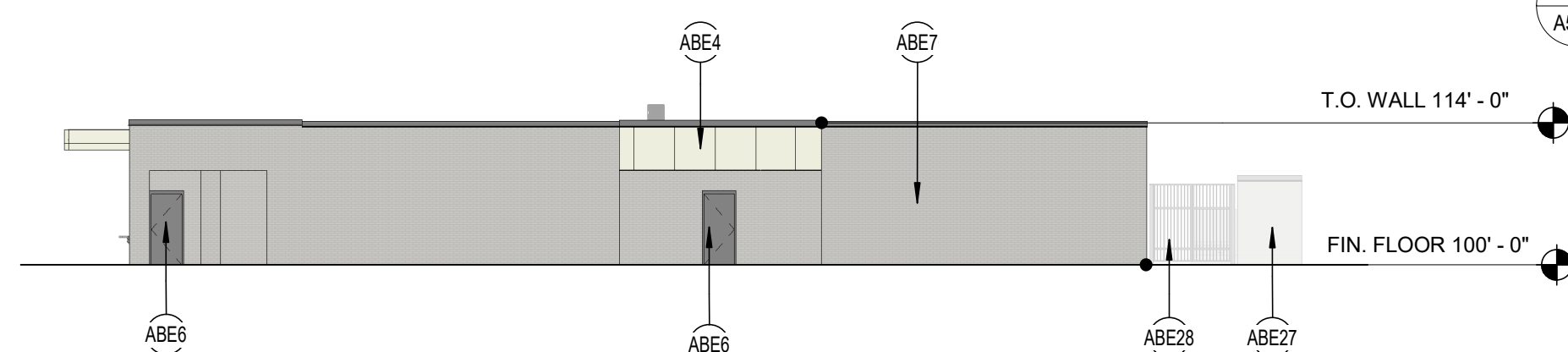
23 EAST ELEVATION-ATHLETICS-MEDIA CENTER
SCALE: 1/16" = 1'-0"



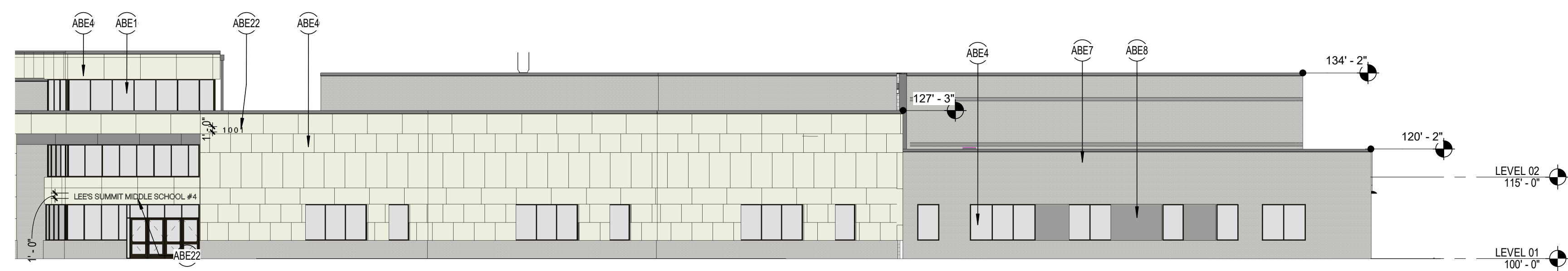
31 ATHLETIC BUILDING SOUTH
SCALE: 1/16" = 1'-0"



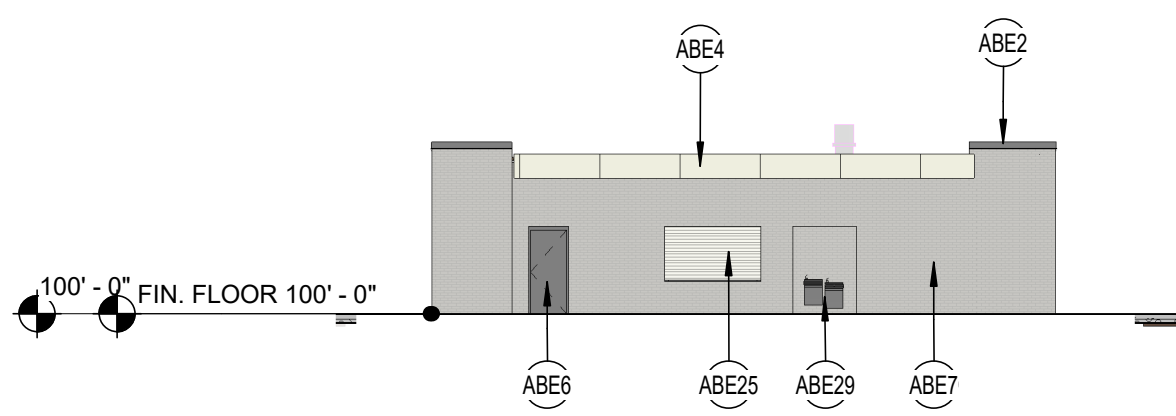
33 SOUTH ELEVATION-ATHLETICS-LOADING DOCK
SCALE: 1/16" = 1'-0"



41 ATHLETIC BUILDING NORTH
SCALE: 1/16" = 1'-0"



53 WEST ELEVATION-FINE ARTS-ATHLETICS
SCALE: 1/16" = 1'-0"



51 ATHLETIC BUILDING EAST
SCALE: 1/16" = 1'-0"

SITE PHOTOMETRIC GENERAL NOTES:

1. REFER TO E01.01 FOR SITE PHOTOMETRIC GENERAL NOTES.
2. REFER TO E01.01 FOR PHOTOMETRIC CALCULATIONS SUMMARIES



CURTIS A. OLDS
LICENSE # PE-2018036640

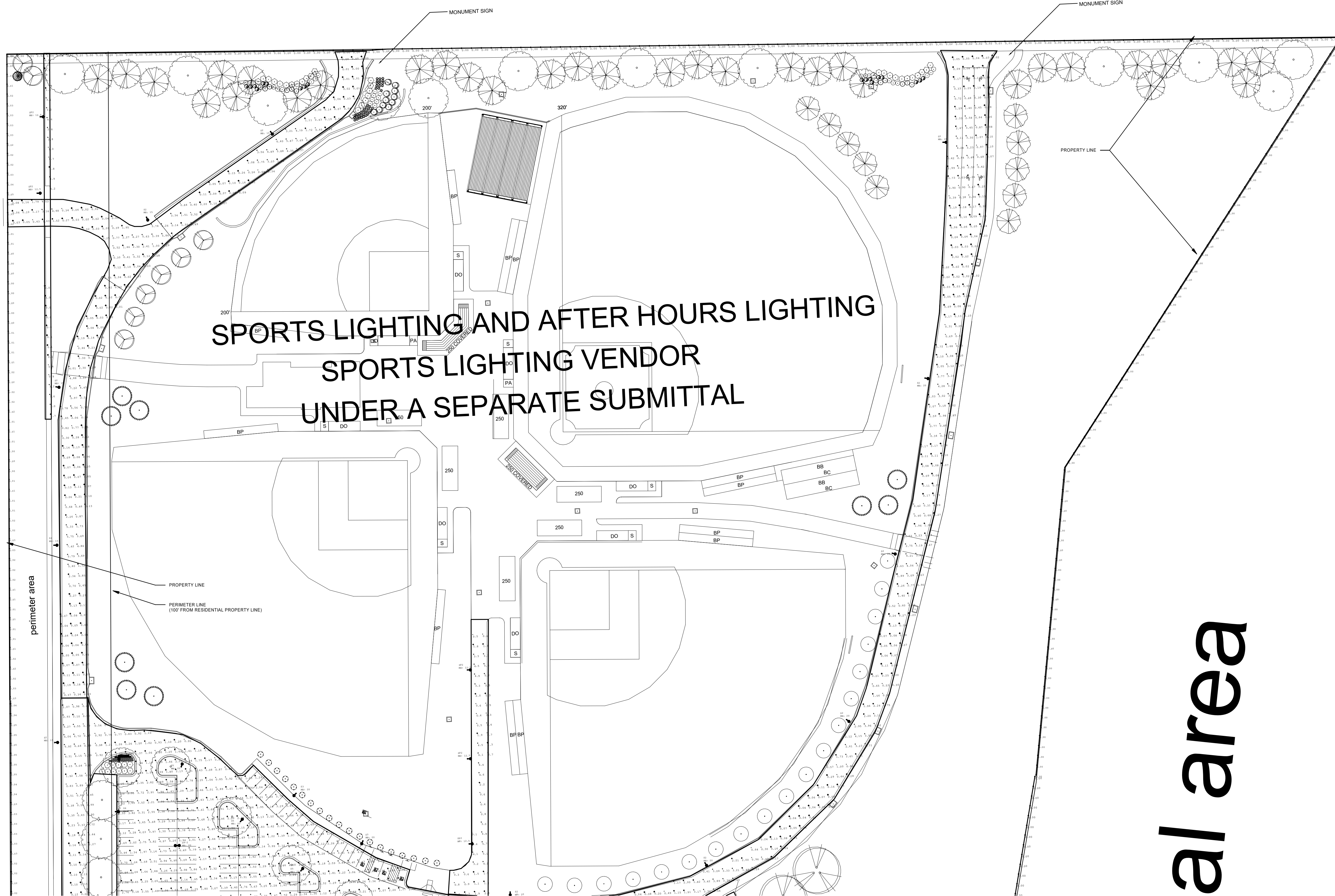
HENDERSON
ENGINEERS
8345 LENOX AVE STE 300
LEWIS & CLARK, MO 64884
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
MO. CORPORATE NO. E-556D
EXPIRES 12/31/2020

LEE'S SUMMIT MIDDLE SCHOOL #4
LEE'S SUMMIT R-7 SCHOOL DISTRICT
Lee's Summit, MO, TED

PDP SUBMITTAL
06/09/2020
REVISIONS

13-20102-00
SITE LIGHTING
PHOTOMETRIC
PLAN

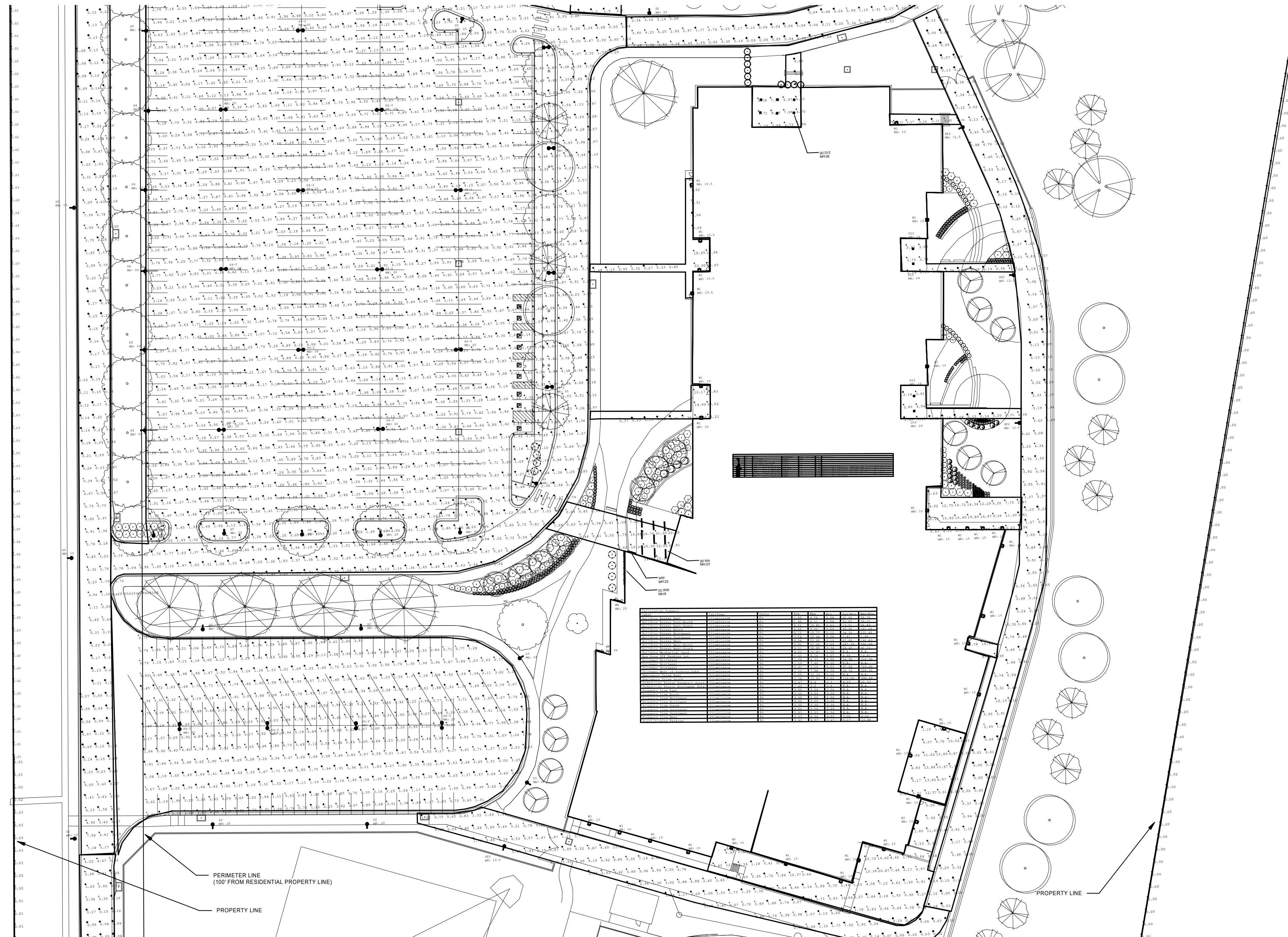
E.010



1 PHOTOMETRIC SITE PLAN - AREA 1
1" = 50'-0"

SITE PHOTOMETRIC GENERAL NOTES:

1. DISCLAIMER: THE LOCATION AND SELECTION OF THE EXISTING SITE LIGHTING FIXTURES ARE OUTSIDE OF THE SCOPE OF WORK. THE USE OF THE SEAL AND SIGNATURE ON THIS SHEET APPLIES TO SCOPE OF SERVICES ONLY.
 - A. LIGHTING PATTERN USED FOR LUMINAIRES REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY LUMINAIRE MAY VARY DUE TO VARIATION IN VOLTAGE, TOLERANCE IN LAMPS AND OTHER VARIABLE FIELD AND EQUIPMENT CONDITIONS.
 - B. SOFTWARE USED FOR PHOTOMETRIC CALCULATIONS: AGI32 - V19.3
2. THE NEW SITE LIGHTING FOR THE NEW PARKING AREAS IS DESIGNED TO MEET THE FOLLOWING CRITERIA EXCEPT WHERE LIMITED BY SITE CONSTRAINTS AND LOCAL REQUIREMENTS:
 - A. AVG MAINTAINED HORIZONTAL ILLUMINATION LEVEL AT FINISHED GRADE NO LESS THAN 2 FC AT THE FRONT PARKING AREAS.
 - B. AVG MAINTAINED HORIZONTAL ILLUMINATION LEVEL AT FINISHED GRADE NO LESS THAN 2 FC AT THE REAR PAVED AREAS AND DRIVE AISLES.
 - C. MAX/MIN RATIO FOR EACH NEW PARKING AREA SHALL BE LESS THAN 10:1.
 - D. MAXIMUM HORIZONTAL ILLUMINATION LEVEL OF 1 FC AT FINISHED GRADE AT ALL RESIDENTIAL PROPERTY LINES.
 - E. MAXIMUM VERTICAL ILLUMINATION LEVEL OF 1 FC AT 6'-0" ABOVE FINISHED GRADE AT ALL RESIDENTIAL PROPERTY LINES.
 - F. PHOTOMETRIC CALCULATION GRID SHALL NOT EXCEED A 10' X 10' SPACING.
 - G. THE TOTAL LIGHT LOSS FACTOR USED FOR THE CALCULATIONS SHALL BE .9 OF INITIAL LUMEN OUTPUT FOR LED SOURCES AND .9 FOR EXISTING SOURCES, UNLESS NOTED OTHERWISE.
 - H. MAXIMUM POLE MOUNTED LUMINAIRE MOUNTING HEIGHT (INCLUDING POLE AND BASE) OF 20' ABOVE FINISHED GRADE (A.F.G.) OUTSIDE PERIMETER AREA. INSIDE PERIMETER AREA MAX HEIGHT OF POLE MOUNTED LUMINAIRES IS 15' A.F.G. MAXIMUM HEIGHT OF PEDESTAL POLE FIXTURES IS 12.5' A.F.G. MAXIMUM HEIGHT OF BUILDING MOUNTED AREA TYPE LIGHT FIXTURES IS 15' A.F.G.
 - I. MOUNTING HEIGHTS UNITS ON SITE PLANS ARE LISTED IN FEET AND ARE NOTED FOR EACH INDIVIDUAL FIXTURE. (MH: XX)



1 PHOTOMETRIC SITE PLAN - AREA 2
1" = 50'-0"



CURTIS A. OLDS
LICENSE # PE-2018036640

HENDERSON
ENGINEERS
8345 LEWIS & CLARK, SUITE 300
LEWIS & CLARK, MO 64694
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
15/00/00504
MO. CORPORATE NO. E-556D
EXPIRES 12/31/2020

LEE'S SUMMIT MIDDLE SCHOOL #4
LEE'S SUMMIT R-7 SCHOOL DISTRICT
Lee's Summit, MO, TED

PDP SUBMITTAL
06/09/2020
REVISIONS

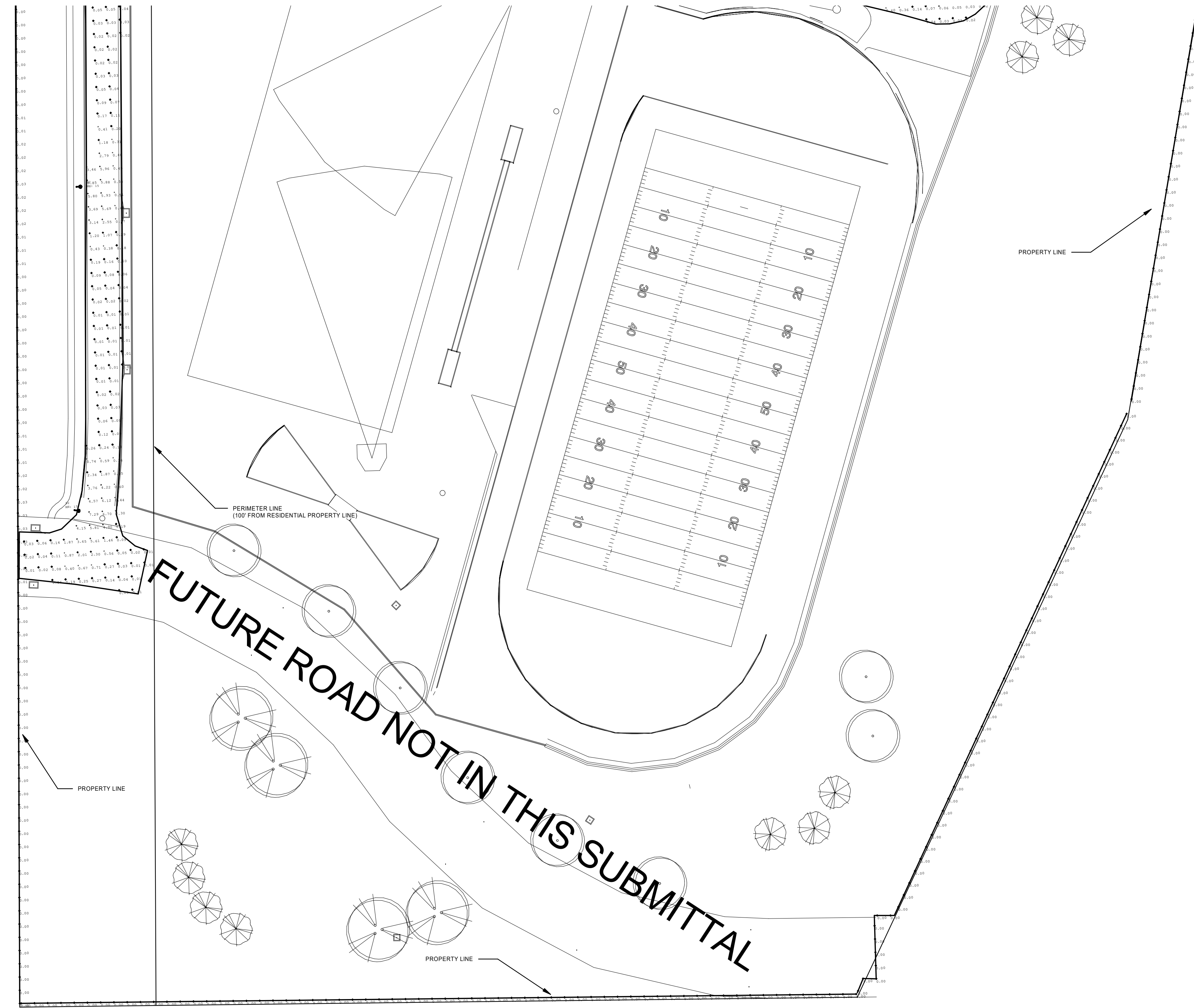
13-20102-00
SITE LIGHTING
PHOTOMETRIC
PLAN

E.011

CURTIS A. OLDS

SITE PHOTOMETRIC GENERAL NOTES:

1. REFER TO E01.01 FOR SITE PHOTOMETRIC GENERAL NOTES.
2. REFER TO E01.01 FOR PHOTOMETRIC CALCULATIONS SUMMARIES

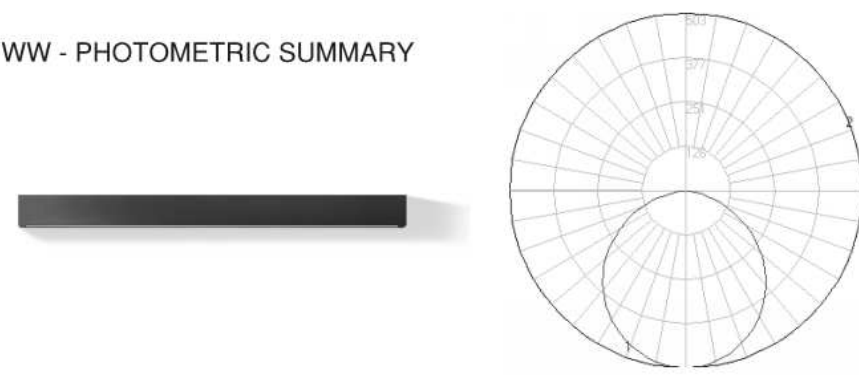


① PHOTOMETRIC SITE PLAN - AREA 3
1" = 50'-0"

BEGA

WW - PHOTOMETRIC SUMMARY

Photometric Filename: 44419.IES
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 TEST LAB: BEGA
 DATE: 3/8/2017
 LUMINAIRE: 44 419
 LAMP: 30.4W LED



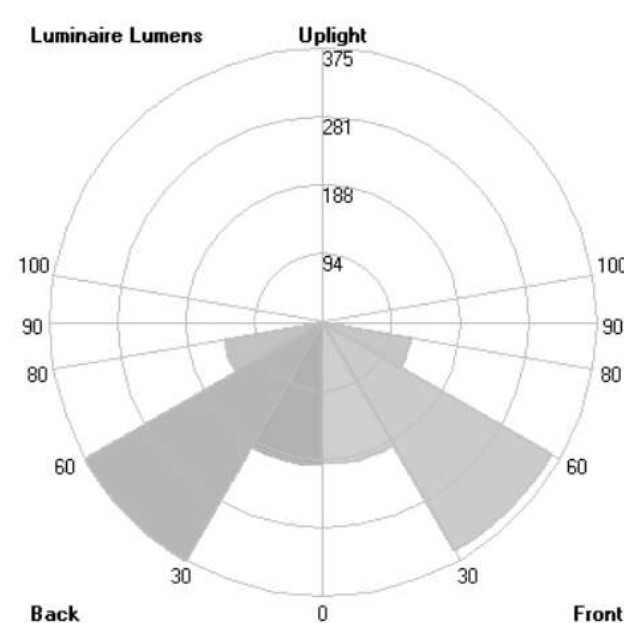
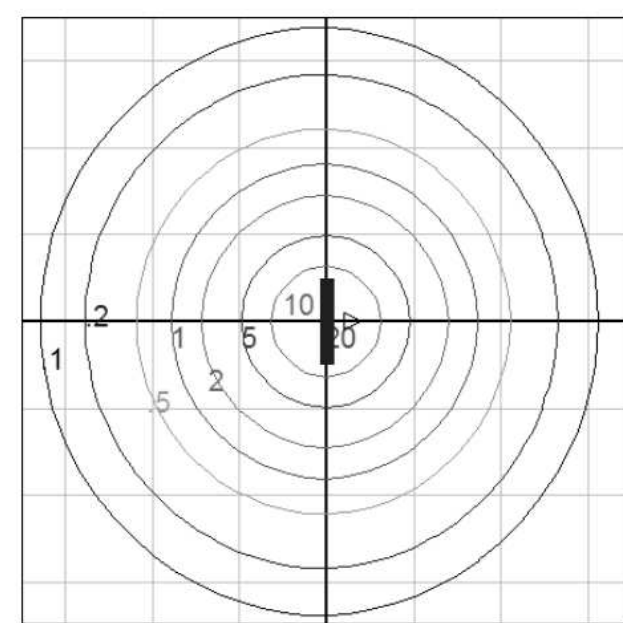
Characteristics

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1399
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	39
Total Luminaire Watts	36
Ballast Factor	1.00
Upward Waste Light Ratio	N.A.
Max. Cd (180H, 0V)	502.5 (180H, 0V)
Max. Cd (<90 Vert.)	502.5 (180H, 0V)
Max. Cd (At 90 Deg. Vert.)	4 (0.0%lum)
Max. Cd (80 to <90 Deg. Vert.)	52.7 (3.8%lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%lum
FL (0-30)	153.8	N.A.	13.9
FM (30-60)	360.5	N.A.	25.8
FH (60-90)	122.0	N.A.	8.7
FVH (90-90)	6.0	N.A.	0.4
BL (0-30)	195.7	N.A.	14.0
BM (30-60)	375.2	N.A.	26.8
BH (60-90)	136.7	N.A.	9.8
BVH (90-90)	8.9	N.A.	0.6
UL (90-100)	0.0	N.A.	0.0
ULI (100-180)	0.0	N.A.	0.0
Total	1398.6	N.A.	100.0

BUG Rating B1-U0-G0



Wall mount - isofotocandle diagram on floor
 Mounting Height = 5 ft. Grid Spacing = 5 ft.

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LED wall luminaire - light output on one side

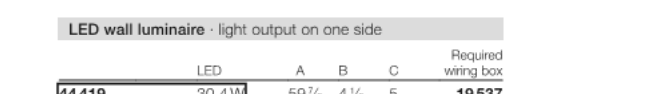
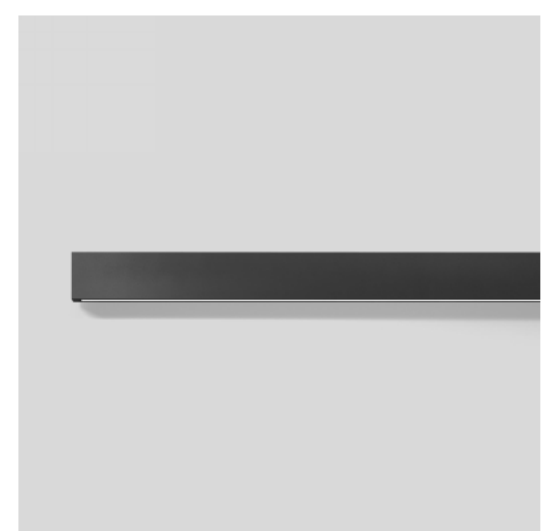
Application
 The LED wall mounted luminaire has light output on one side. Arranged individually or in groups, this is a great design element for a host of lighting applications. For downlight applications only.

Materials
 Luminaire housing constructed of die-cast and extruded marine grade, copper free (0.3% copper content) A360.0 aluminum alloy
 Mechanically captive stainless steel fasteners
 High temperature silicone gasket
 Clear safety glass
 Reflector made of pure anodized aluminum
 Silicone applied robotically to casting, plasma treated for increased adhesion
 High temperature silicone gasket
 Mechanically captive stainless steel fasteners
 Stainless steel screw clamps
 NRTL listed to North American Standards, suitable for wet locations
 Protection class IP65
 Weight: 25.2 lbs.

Electrical
 Operating voltage 120-277VAC
 Minimum start temperature -30°C
 LED module wattage 30.4W
 System wattage 36W
 Controllability 0-10V dimmable
 Color rendering index Ra > 90
 Luminaire lumens 1399 lumens (3000K)
 Lifetime at Ta = 15°C 500,000 h (L70)
 Lifetime at Ta = 45°C 229,000 h (L70)

LED color temperature
 2700K - Product number = **K2**
 3500K - Product number = **K35**
 5000K - Product number = **K3**
 2700K - Product number = **K27**

Finish
 All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.
 Available colors: Black (BLK) White (WHT) RAL Silver (SLV) CUS: Bronze (BRZ)



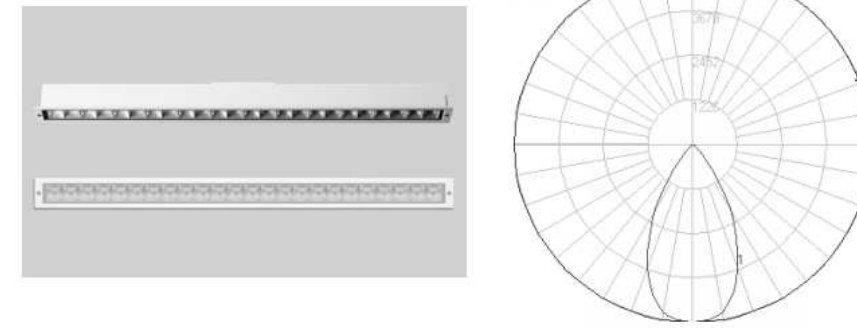
LED wall luminaire - light output on one side
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4 WW - Linear Wall Wash NTS

BEGA

W4 - PHOTOMETRIC SUMMARY

Photometric Filename: 24304.ies
 TEST: BE_24304
 TEST LAB: BEGA
 DATE: 4/12/2017
 LUMINAIRE: 24 304
 LAMP: 32W LED

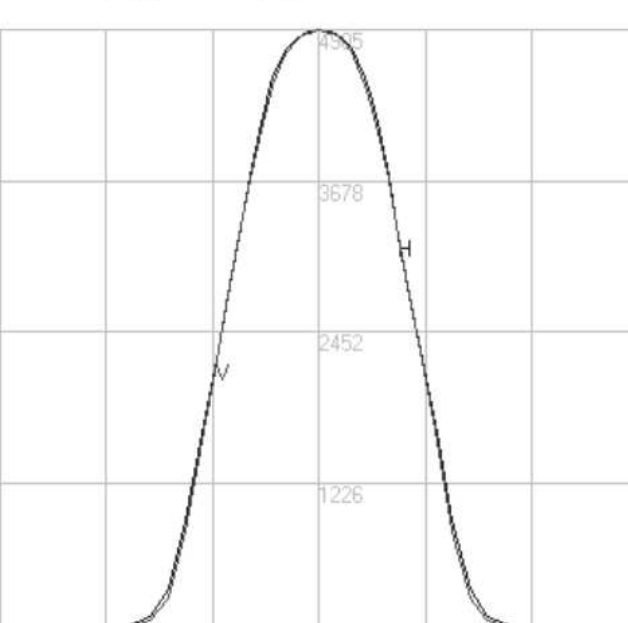
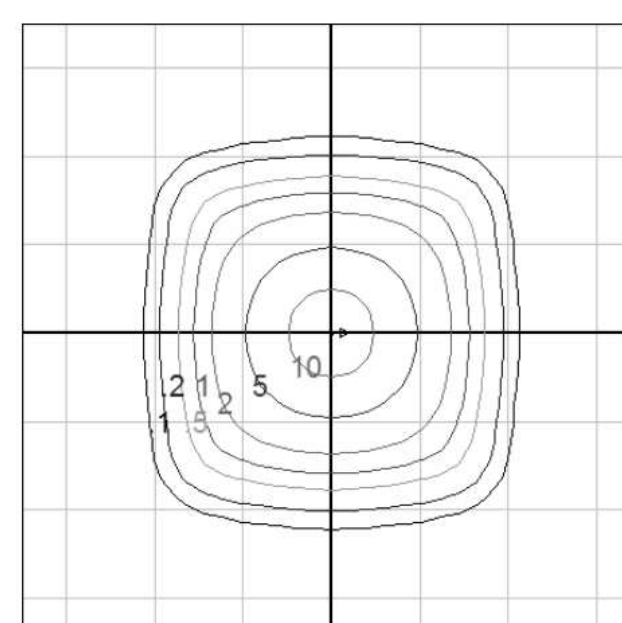


Characteristics

NEMA Type	5 H x 5 V
Maximum Candela	4904.5
Maximum Candela Angle	0 H 0 V
Horizontal Beam Angle (50%)	55.0
Vertical Beam Angle (50%)	54.9
Horizontal Field Angle (10%)	82.7
Vertical Field Angle (10%)	81.2
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	2733
Beam Efficiency	N.A.
Field Lumens	4114
Field Efficiency	N.A.
Spill Lumens	208
Luminaire Lumens	4323
Total Efficiency	N.A.
Total Luminaire Watts	36

Zonal Lumen Summary

Zone	Lumens
0-10	459.20
10-20	1196.15
20-30	1335.01
30-40	926.38
40-50	305.56
50-60	60.05
60-70	20.73
70-80	7.41
80-90	0.67
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Mounting Height = 20 ft. Grid Spacing = 10 ft.

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LED recessed ceiling luminaires - Vortex optics - Symmetric wide

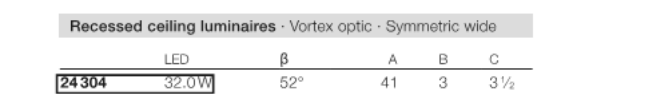
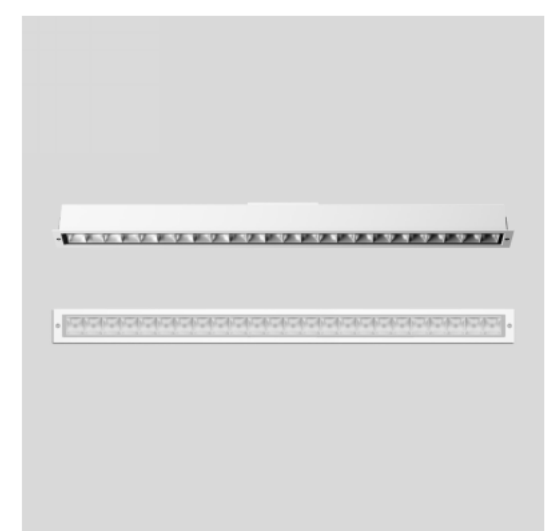
Application
 Linear LED recessed ceiling luminaires with symmetric wide light distribution. The patent pending 'vortex reflector' rotates a parabolic reflector around the vertical axis to form a complex vortex shape. The vortex balances maximum efficiency with optimal glare control while eliminating shadows and artifacts in a uniquely rectangular shape.

Materials
 Luminaire housing and trim constructed of die-cast marine grade, copper free (0.3% copper content) A360.0 aluminum alloy
 Clear safety glass
 Reflector made of pure anodized aluminum
 Silicone applied robotically to casting, plasma treated for increased adhesion
 High temperature silicone gasket
 Mechanically captive stainless steel fasteners
 Stainless steel screw clamps
 NRTL listed to North American Standards, suitable for wet locations
 Protection class IP65
 Weight: 10.0 lbs.

Electrical
 Operating voltage 120-277VAC
 Minimum start temperature -30°C
 LED module wattage 32.0W
 System wattage 36.0W
 Controllability 0-10V dimming down to 0.1%
 Color rendering index Ra > 90
 Luminaire lumens 3,920 lumens (3000K)
 Lifetime at Ta = 15°C 500,000 h (L70)
 Lifetime at Ta = 45°C 27,000 h (L70)

LED color temperature
 2700K - Product number = **K2**
 3500K - Product number = **K35**
 5000K - Product number = **K3**
 2700K - Product number = **K27**

Finish
 All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.
 Available colors: Black (BLK) White (WHT) RAL Silver (SLV) CUS: Bronze (BRZ)



LED recessed ceiling luminaires - Vortex optic - Symmetric wide
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3 W4 - Linear Recessed NTS

BEGA

W1 - PHOTOMETRIC SUMMARY

Photometric Filename: 24816.ies
 TEST: BE_24816
 TEST LAB: BEGA
 DATE: 11/30/2016
 LUMINAIRE: 24 816
 LAMP: 55.3W LED



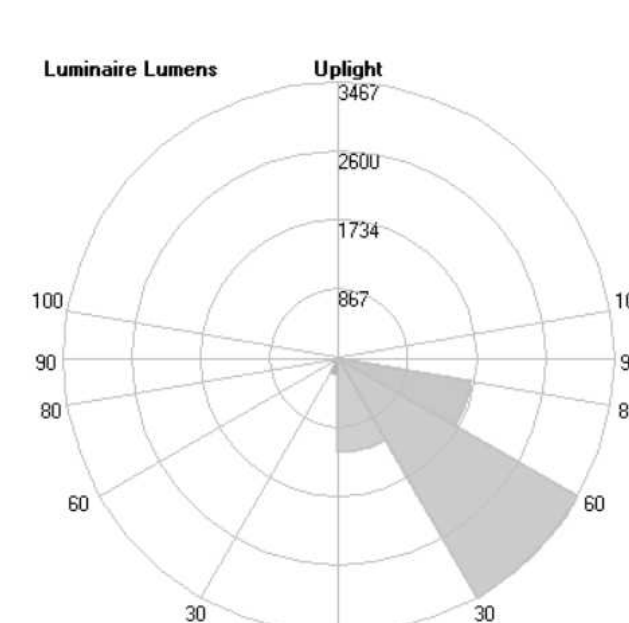
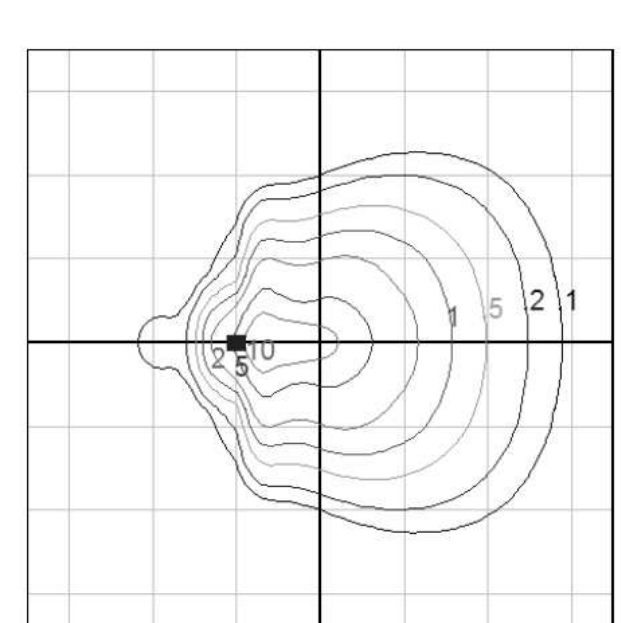
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8672
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	61
Ballast Factor	1.00
Upward Waste Light Ratio	N.A.
Max. Cd (<90 Vert.)	8801 (H, 52.5V)
Max. Cd (At 90 Deg. Vert.)	8801 (H, 52.5V)
Max. Cd (80 to <90 Deg. Vert.)	24 (0.0%lum)
Max. Cd (80 to <90 Deg. Vert.)	551.2 (8.3%lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%lum
FL (0-30)	1151.6	N.A.	17.7
FM (30-60)	3467.0	N.A.	52.0
FH (60-90)	1609.9	N.A.	25.3
FVH (90-90)	39.4	N.A.	0.6
BL (0-30)	203.0	N.A.	3.0
BM (30-60)	72.8	N.A.	1.1
BH (60-90)	14.8	N.A.	0.2
BVH (90-90)	2.4	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
ULI (100-180)	0.0	N.A.	0.0
Total	6672.0	N.A.	100.0

BUG Rating B1-U0-G1



Mounting Height = 15 ft. Grid Spacing = 15 ft.

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LED wall luminaire - surface washer

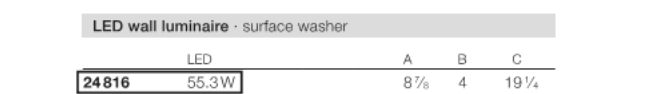
Application
 LED wall luminaire with asymmetrical light distribution designed for illuminating horizontal surfaces from vertical mounting surfaces.

Materials
 Luminaire housing and fasciate constructed of die-cast marine grade, copper free (0.3% copper content) A360.0 aluminum alloy
 Clear safety glass
 Reflector made of pure anodized aluminum
 Silicone applied robotically to casting, plasma treated for increased adhesion
 High temperature silicone gasket
 Mechanically captive stainless steel fasteners
 NRTL listed to North American Standards, suitable for wet locations
 Protection class IP65
 Weight: 11.8 lbs.

Electrical
 Operating voltage 120-277VAC
 Minimum start temperature -30°C
 LED module wattage 55.3W
 System wattage 61.0W
 Controllability 0-10V dimmable
 Color rendering index Ra > 90
 Luminaire lumens 6,674 lumens (3000K)
 Lifetime at Ta = 15°C 232,000 h (L70)
 Lifetime at Ta = 35°C 73,000 h (L70)

LED color temperature
 2700K - Product number = **K2**
 3500K - Product number = **K35**
 5000K - Product number = **K3**
 2700K - Product number = **K27**

Finish
 All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.
 Available colors: Black (BLK) White (WHT) RAL Silver (SLV) CUS: Bronze (BRZ)



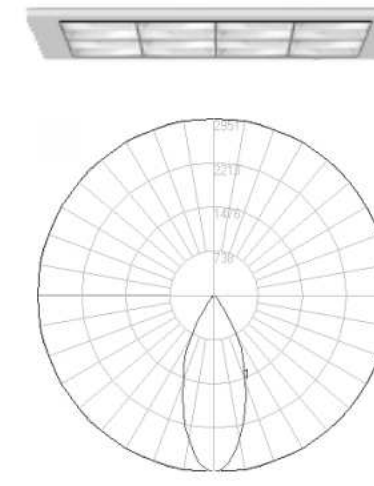
LED wall luminaire - surface washer
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2 W1 - Wall Sconce NTS

BEGA

D12 - PHOTOMETRIC SUMMARY

Photometric Filename: 24806.ies
 TEST: LI_24806
 TEST LAB: BEGA
 DATE: 3/14/2016
 LUMINAIRE: 24 806
 LAMP: 17.8W LED

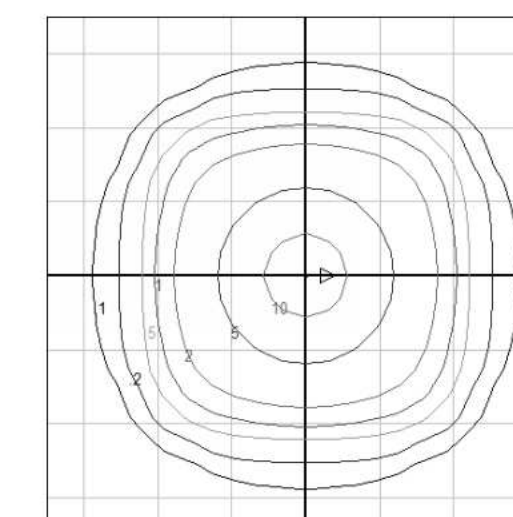


Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1706
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	22
Ballast Factor	1.00
Upward Waste Light Ratio	N.A.
Max. Cd (<90 Vert.)	8672 (H, 52.5V)
Max. Cd (At 90 Deg. Vert.)	8672 (H, 52.5V)
Max. Cd (80 to <90 Deg. Vert.)	24 (0.0%lum)
Max. Cd (80 to <90 Deg. Vert.)	551.2 (8.3%lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Zonal Lumen Summary

Zone	Lumens
0-10	256.02
10-20	546.17
20-30	535.46
30-40	287.10
40-50	51.70
50-60	16.97
60-70	8.17
70-80	3.78
80-90	0.54
Luminous Length (0-180)	0.36 ft
Luminous Width (0-270)	0.36 ft
Luminous Height	0.00 ft



Mounting Height = 15 ft. Grid Spacing = 5 ft.

In the interest of product improvement, BEGA reserves the right to make technical changes without notice.
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LED recessed ceiling downlight - vortex reflector - wide beam

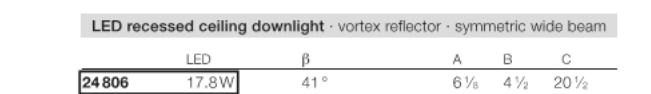
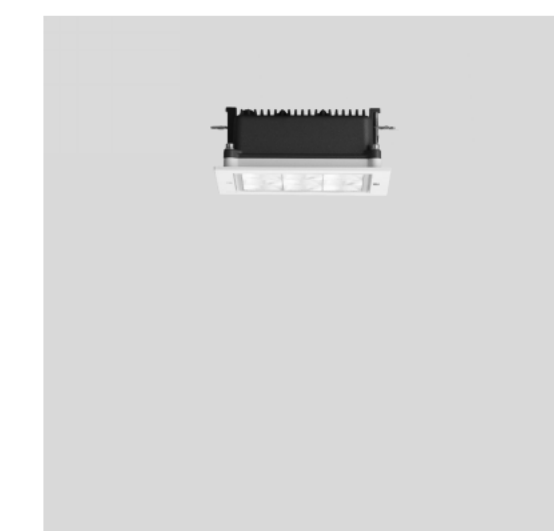
Application
 LED recessed ceiling luminaire with symmetric wide beam light distribution. The patent pending 'vortex reflector' rotates a parabolic reflector around the vertical axis to form a complex vortex shape. This vortex balances maximum efficiency with optimal glare control while eliminating shadows and artifacts in a uniquely sharp square distribution.

Materials
 Luminaire housing and fasciate constructed of die-cast marine grade, copper free (0.3% copper content) A360.0 aluminum alloy
 Clear safety glass
 Reflector made of pure anodized aluminum
 Silicone applied robotically to casting, plasma treated for increased adhesion
 High temperature silicone gasket
 Mechanically captive stainless steel fasteners
 Stainless steel screw clamps
 Galvanized steel rough in ceiling pan with through wiring box
 Protection class IP65
 Weight: 1.8 lbs.

Electrical
 Operating voltage 120-277VAC
 Minimum start temperature -30°C
 LED module wattage 17.8W
 System wattage 22W
 Controllability 0-10V dimmable
 Color rendering index Ra > 85
 Luminaire lumens 1706 lumens (3000K)
 Lifetime at Ta = 15°C 172,000 h (L70)
 Lifetime at Ta = 30°C 73,000 h (L70)

LED color temperature
 2700K - Product number = **K2**
 3500K - Product number = **K35**
 5000K - Product number = **K3**
 2700K - Product number = **K27**

Finish
 All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.
 Available colors: Black (BLK) White (WHT) RAL Silver (SLV) CUS: Bronze (BRZ)



LED recessed ceiling downlight - vortex reflector - symmetric wide beam
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1 D12 - Square Downlight NTS



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 LICENSE # PE-2018036640

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 MO. CORPORATE NO. E-5582
 EXPIRES 12/31/2020

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PDP SUBMITTAL
 06/09/2020
 REVISIONS

13-20102-00
 SITE LIGHTING
 FIXTURE
 CUTSHEETS

E.013

