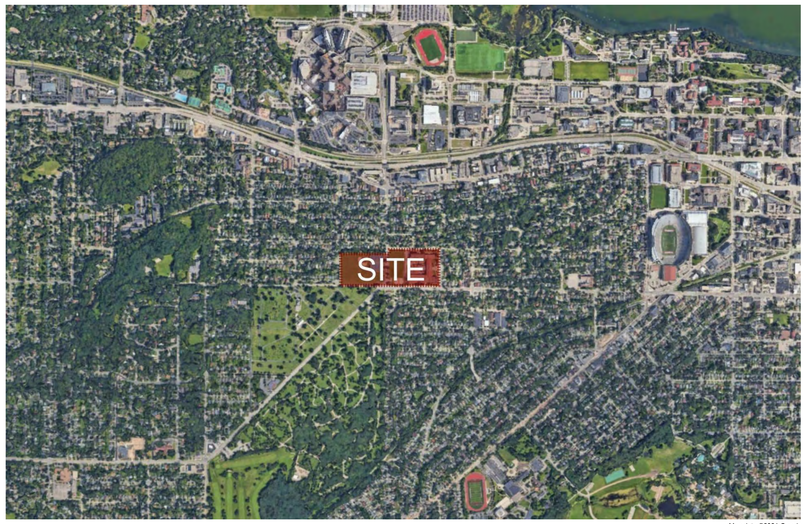
MMSD - WEST HS ADDITION AND RENOVATION

30 ASH ST, MADISON, WI 53726



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UDC & PLAN COMMISSION

JUNE 1, 2021 **PROJECT NUMBER: 20535-01**

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eua

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PROJECT INFORMATION

MMSD - WEST HS ADDITION AND RENOVATION

30 ASH ST,
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ISSUANCE AND REVISIONS

DATE	DESCRIPTION
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KEY PLAN

SHEET INFORMATION

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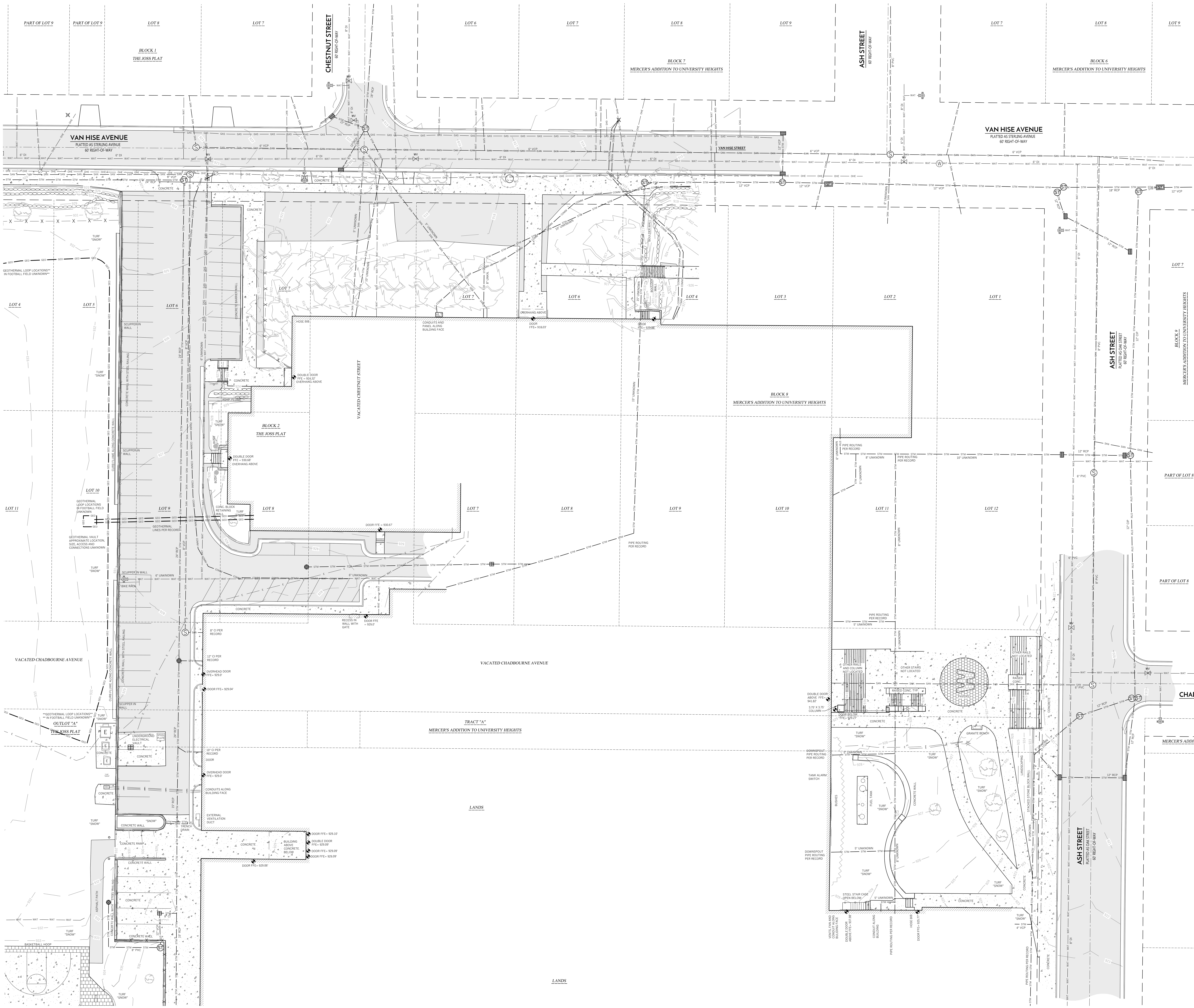
PROJECT MANAGER JM

PROJECT NUMBER 20535-01

SITE LOCATION

T-1



NORTH

GRID NORTH
WISCRS DANE
NAD 83(2011)

0' 10' 20' 30'
1" = 20' on 30"x42"
NTS on 11"x17"

LEGEND

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GENERAL NOTES

1. FIELD WORK PERFORMED BY WYSER ENGINEERING, LLC. DURING THE MONTH OF JANUARY 2021
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WYSER
ENGINEERING

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312 EAST MAIN STREET
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www.wyserengineering.com

PREPARED FOR:
MADISON METROPOLITAN SCHOOL DISTRICT
4711 PFLAUM ROAD
MADISON, WI 53705

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DRAWN BY: JWS
APPROVED BY: JWS

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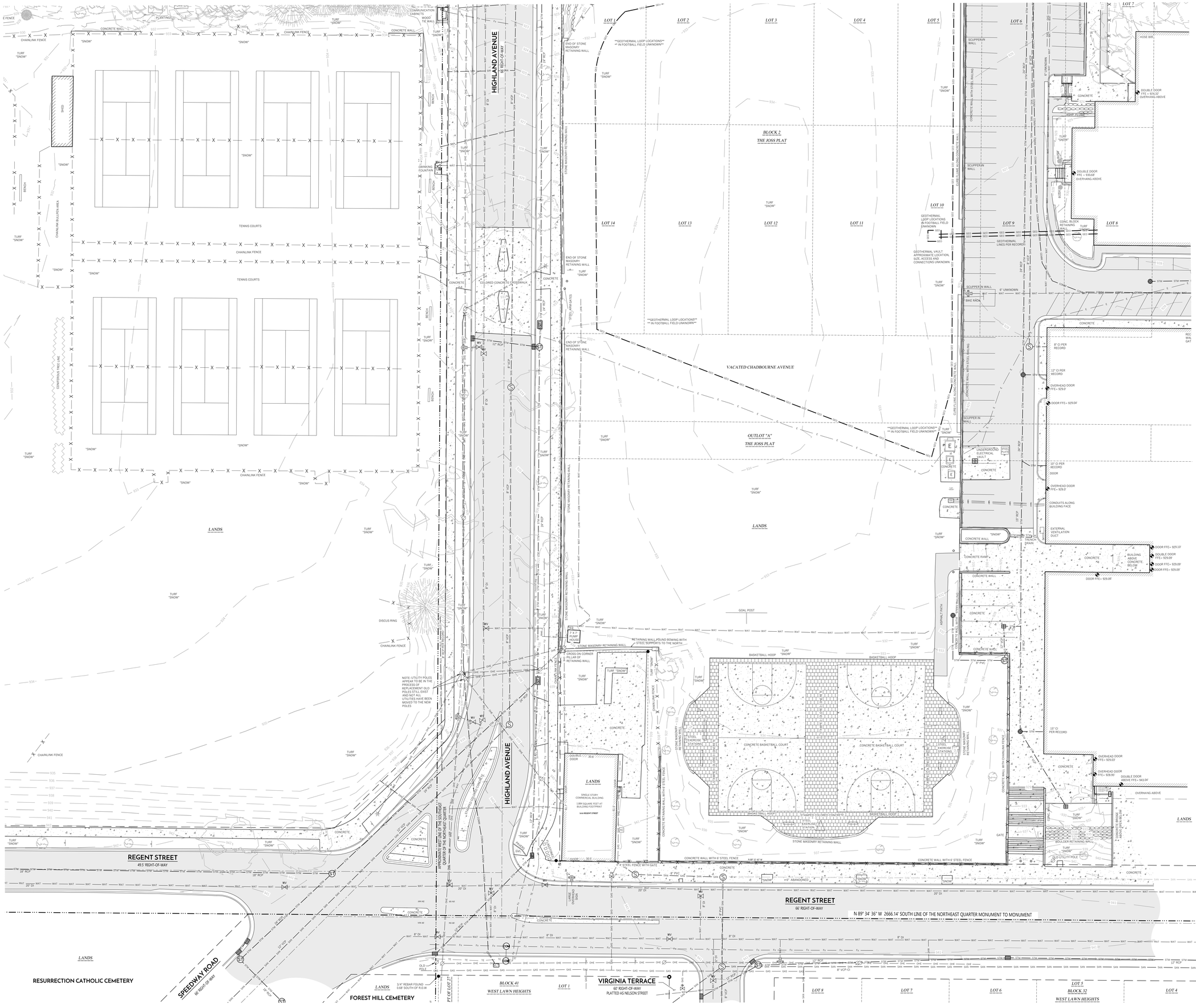

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WYSER ENGINEERING

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545 W DAYTON ST
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SURVEYED BY: ZMR/KML
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APPROVED BY: JWS

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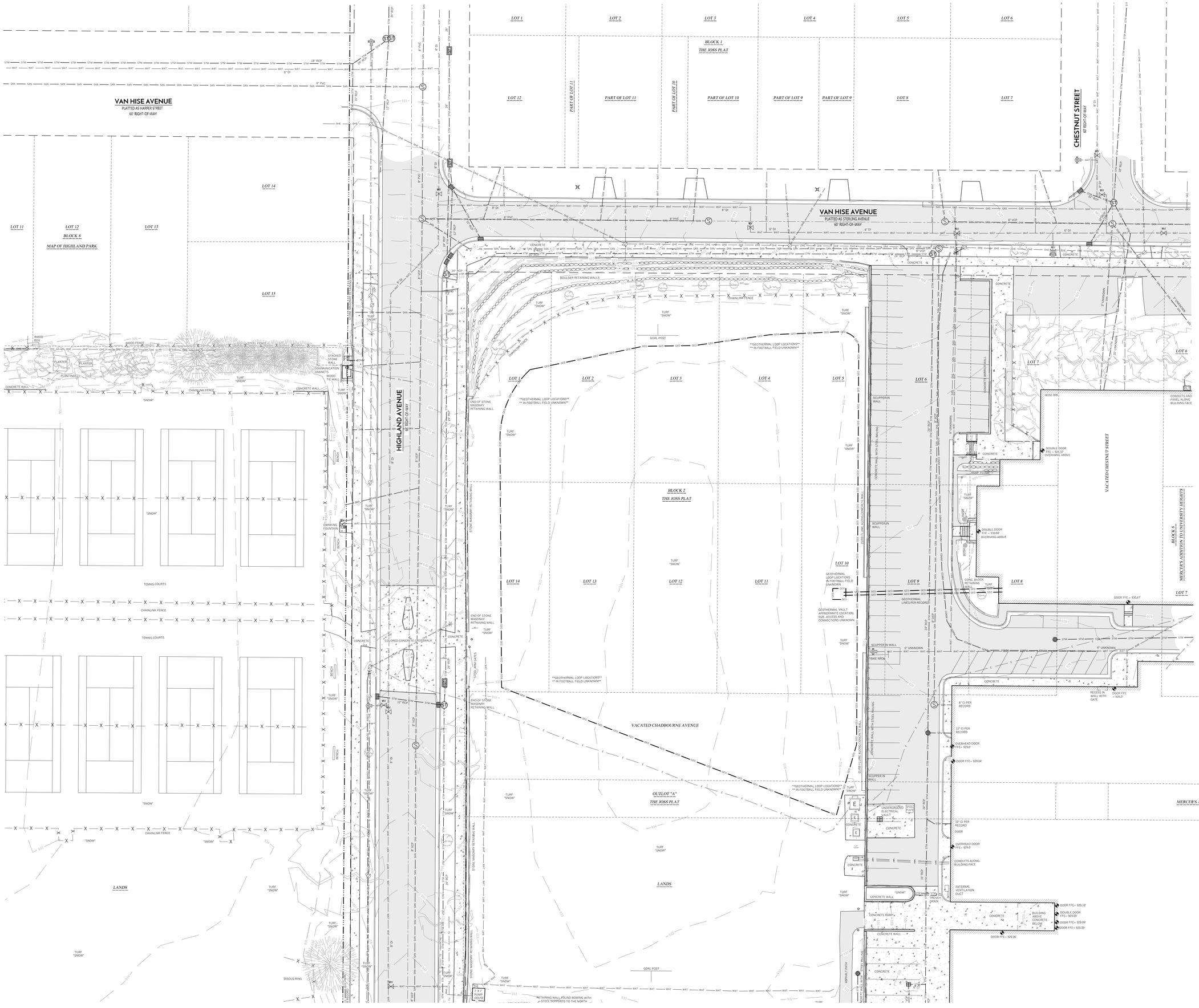

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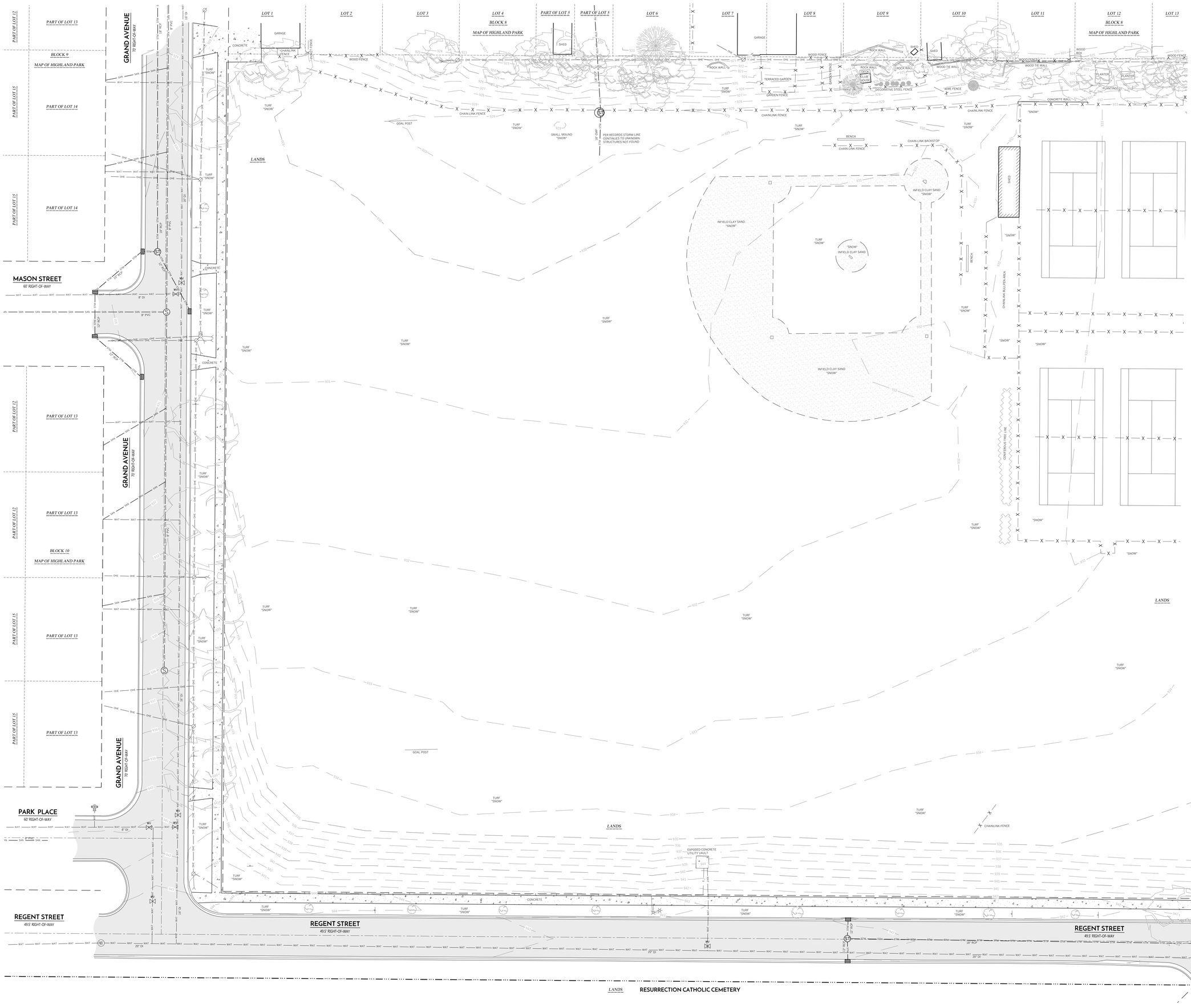

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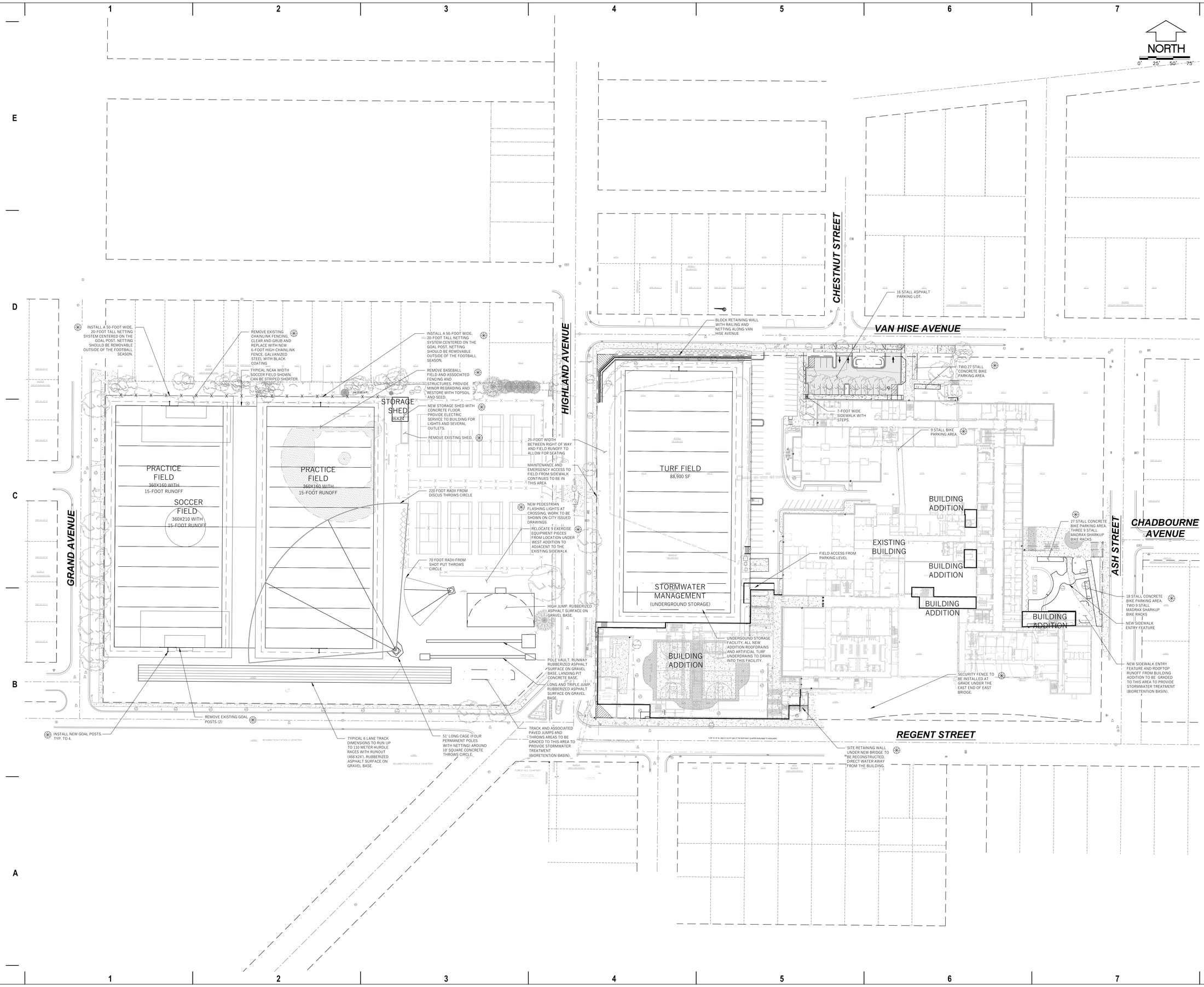

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PROJECT INFORMATION

MMSD - WEST HIGH SCHOOL

30 ASH ST,
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PROJECT MANAGER	JM
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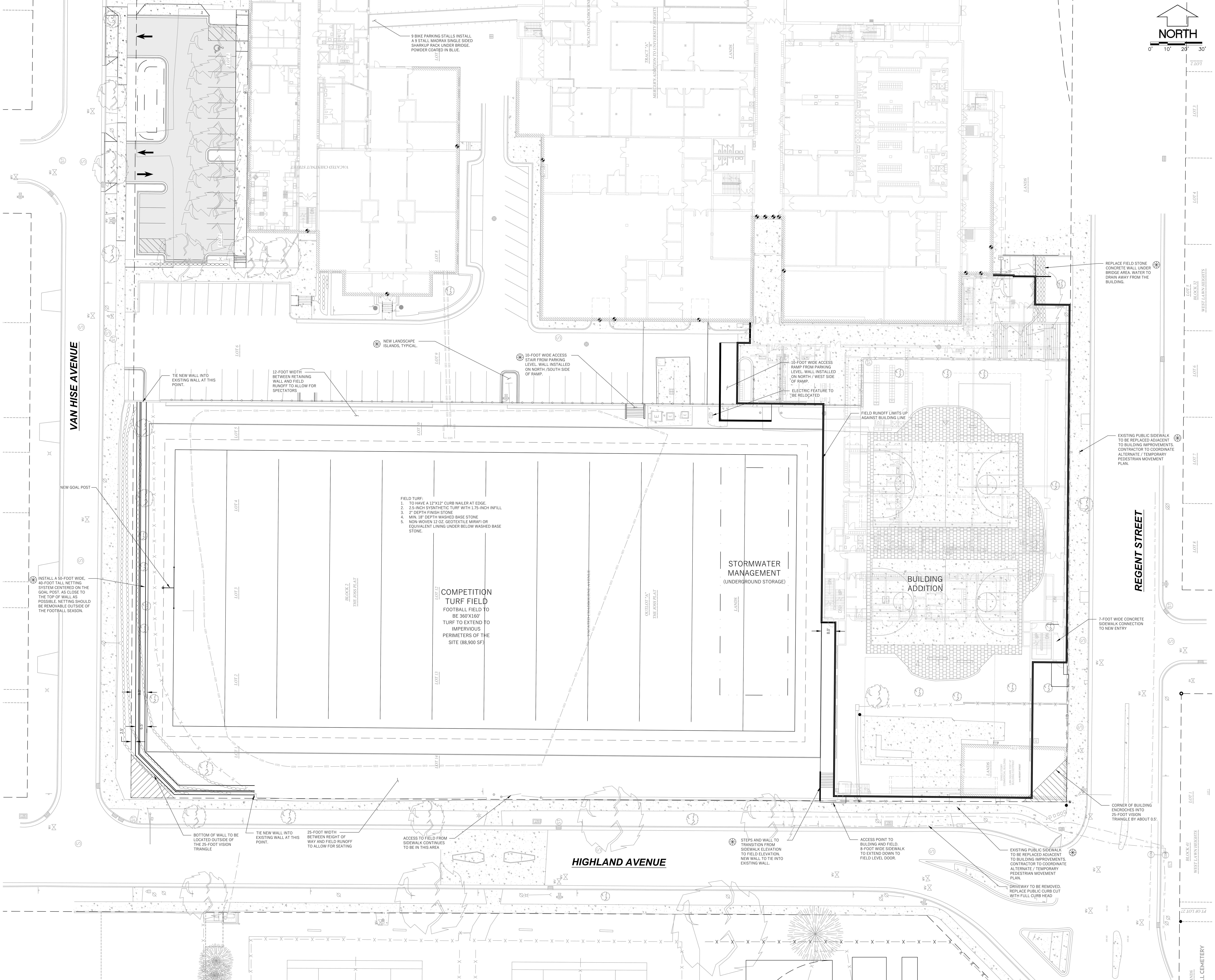
SITE PLAN - OVERALL

C100



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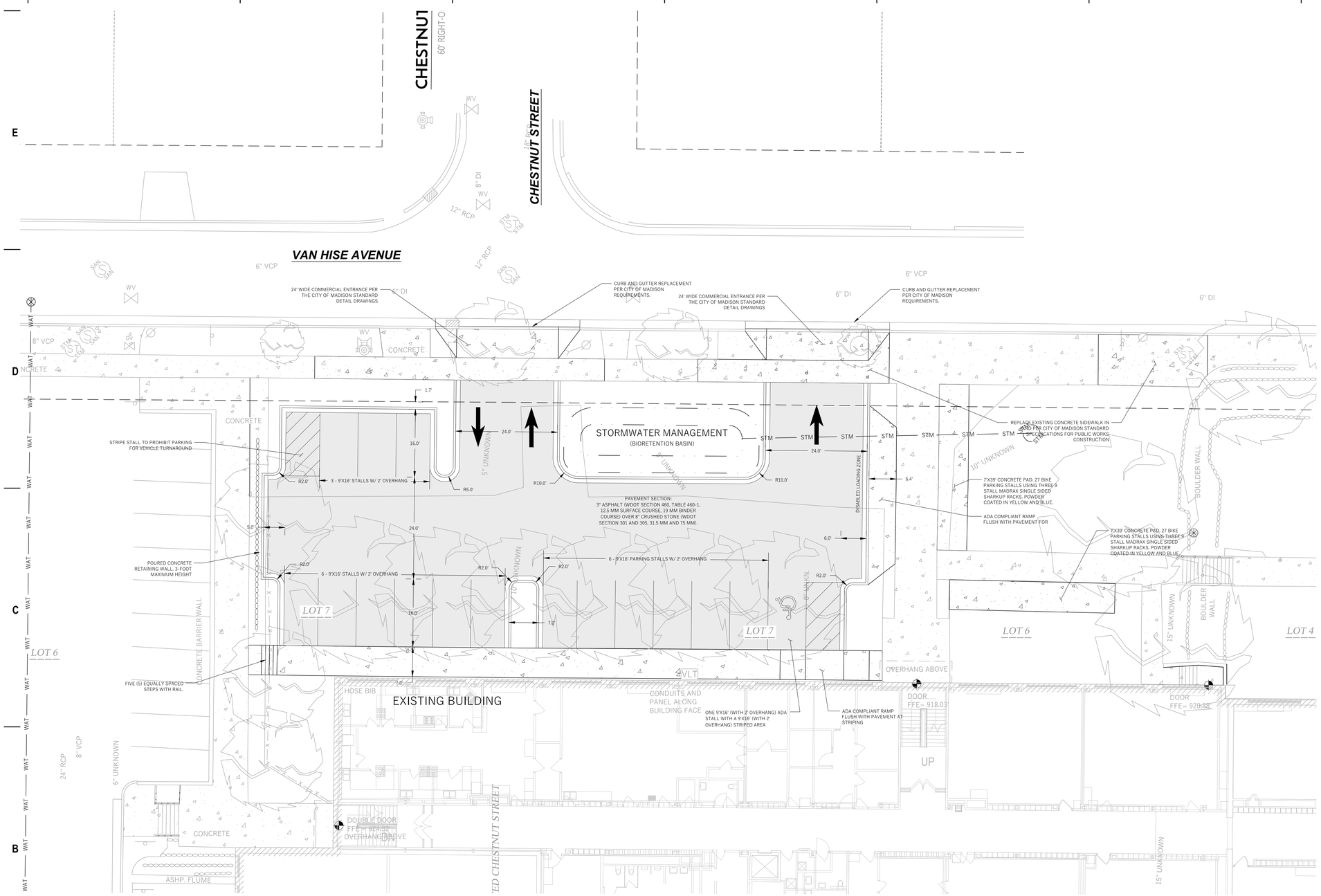
SITE PLAN - ATHLETIC FIELD

C101



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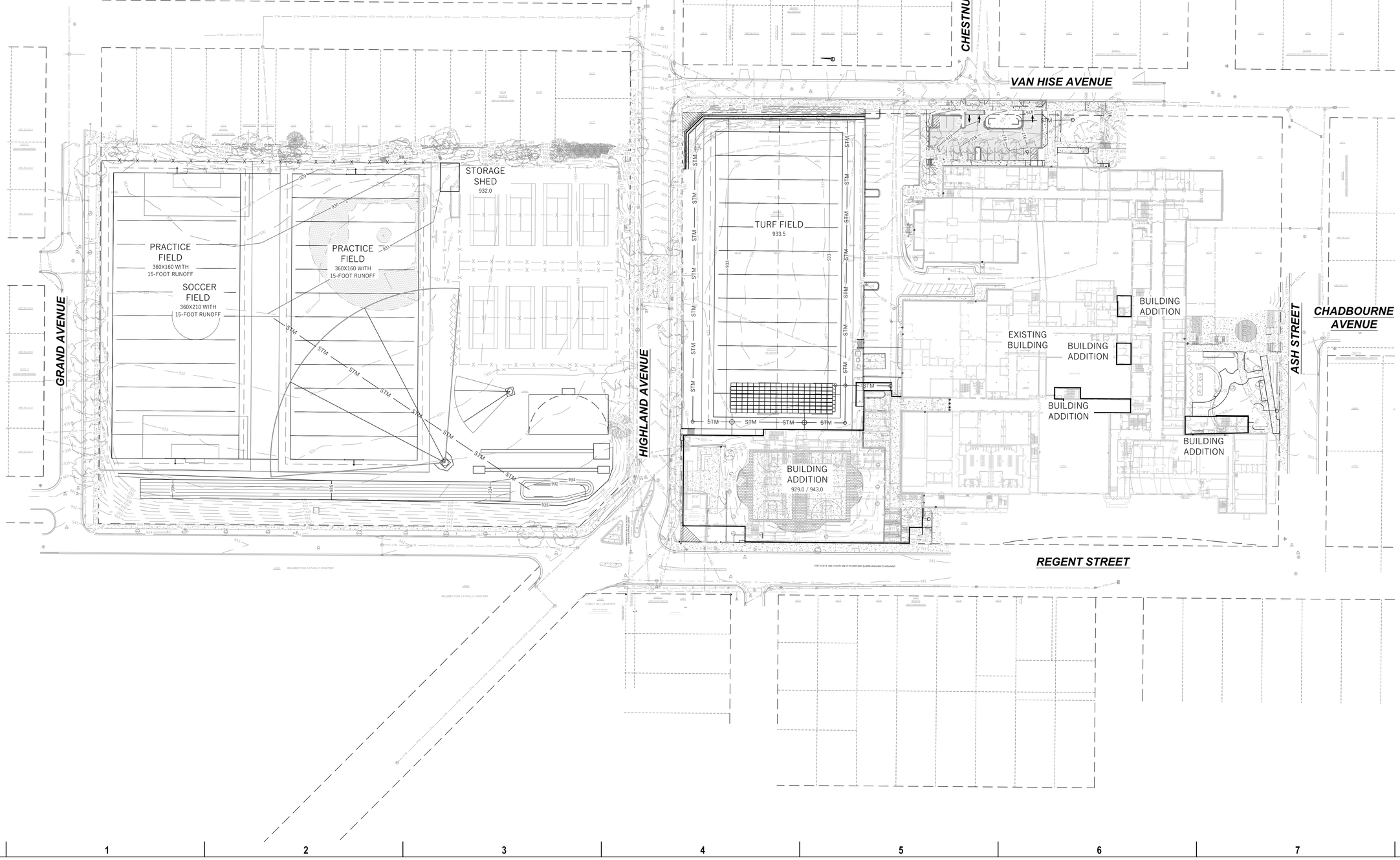
SITE PLAN - NORTH PARKING LOT

C102

CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS

1. POST WDNR CERTIFICATE OF PERMIT COVERAGE AND MUNICIPAL EROSION CONTROL PERMITS ON SITE AND MAINTAIN UNTIL CONSTRUCTION ACTIVITIES HAVE CEASED, THE SITE IS STABILIZED, AND A NOTICE OF TERMINATION IS FILED WITH WDNR.
2. KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
3. ENGINEER / CITY OF MADISON / WDNR HAS THE RIGHT TO REQUIRE CONTRACTOR TO IMPLEMENT ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY. CONTRACTOR MUST NOTIFY AND HAVE AN ONSITE MEETING THE CITY OF MADISON BUILDING INSPECTOR TWO (2) WORKING DAYS IN ADVANCE OF ANY SOIL DISTURBANCE ACTIVITIES.
4. SUBMIT PLAN REVISIONS OR AMENDMENTS TO THE WDNR AT LEAST 5 DAYS PRIOR TO FIELD IMPLEMENTATION.
5. THE SITE CONTRACTOR IS RESPONSIBLE FOR ROUTINE SITE INSPECTIONS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER. KEEP INSPECTION REPORTS ON-SITE AND MAKE THEM AVAILABLE UPON REQUEST.
6. INSPECT AND MAINTAIN ALL INSTALLED EROSION CONTROL PRACTICES UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
7. WHEN POSSIBLE: PRESERVE EXISTING VEGETATION (ESPECIALLY ADJACENT TO SURFACE WATERS), MINIMIZE LAND-DISTURBING CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE, MINIMIZE SOIL COMPACTION, AND PRESERVE TOPSOIL.
8. REFER TO THE WDNR STORMWATER CONSTRUCTION TECHNICAL STANDARDS AT http://dnr.wi.gov/topic/stormwater/standards/const_standards.html.
9. INSTALL PERIMETER EROSION CONTROLS AND ROCK TRACKING PAD CONSTRUCTION ENTRANCE(S) PRIOR TO ANY LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING. USE WDNR TECHNICAL STANDARD STONE TRACKING PAD AND TIRE WASHING #1057 FOR ROCK CONSTRUCTION ENTRANCE(S).
10. INSTALL INLET PROTECTION PRIOR TO LAND-DISTURBING ACTIVITIES IN THE CONTRIBUTING DRAINAGE AREA AND/OR IMMEDIATELY UPON INLET INSTALLATION. COMPLY WITH WDNR TECHNICAL STANDARD STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITES #1060 AND DANE COUNTY REQUIREMENTS FOR FRAMED INLET PROTECTION.
11. CONTRACTOR TO PROVIDE SOLID LID OR METAL PLATE ON ALL OPEN MANHOLES DURING CONSTRUCTION TO MINIMIZE SEDIMENT FROM ENTERING THE STORM SEWER SYSTEM.
12. STAGE CONSTRUCTION GRADING ACTIVITIES TO MINIMIZE THE CUMULATIVE EXPOSED AREA. CONDUCT TEMPORARY GRADING FOR EROSION CONTROL PER WDNR TECHNICAL STANDARD TEMPORARY GRADING PRACTICES FOR EROSION CONTROL #1067.
13. PERMITTING OF GROUNDWATER DEWATERING IS THE RESPONSIBILITY OF THE CONTRACTOR. GROUNDWATER DEWATERING IS SUBJECT TO A DNR WASTEWATER DISCHARGE PERMIT AND A DNR HIGH CAPACITY WELL APPROVAL IF CUMULATIVE PUMP CAPACITY IS 70 GPM OR MORE.
14. PROVIDE ANTI-SCOUR PROTECTION AND MAINTAIN NON-EROSIVE FLOW DURING DEWATERING. PERFORM DEWATERING OF ACCUMULATED SURFACE RUNOFF IN ACCORDANCE WITH WDNR TECHNICAL STANDARD DE-WATERING #1061.
15. COMPLETE AND STABILIZE SEDIMENT BASINS/TRAPS OR WET PONDS PRIOR TO MASS LAND DISTURBANCE TO CONTROL RUNOFF DURING CONSTRUCTION. REMOVE SEDIMENT AS NEEDED TO MAINTAIN 3 FEET OF DEPTH TO THE OUTLET, AND PROPERLY DISPOSE OF SEDIMENT REMOVED DURING MAINTENANCE (REFER TO NR 538). CONSTRUCT AND MAINTAIN THE SEDIMENT BASIN PER WDNR TECHNICAL STANDARD SEDIMENT BASIN #1064 AND SEDIMENT TRAP # 1063.
16. CONSTRUCT AND PROTECT THE BIOINFILTRATION BASIN AND VEGETATION FROM RUNOFF AND SEDIMENT DURING CONSTRUCTION. REFERENCE THE WDNR TECHNICAL STANDARD BIORETENTION FOR INFILTRATION # 1004.
17. INSTALL AND MAINTAIN SILT FENCING PER WDNR TECHNICAL STANDARD SILT FENCE #1056. REMOVE SEDIMENT FROM BEHIND SILT FENCES AND SEDIMENT BARRIERS BEFORE SEDIMENT REACHES A DEPTH THAT IS EQUAL TO ONE-HALF OF THE FENCE AND/OR BARRIER HEIGHT.
18. REPAIR BREAKS AND GAPS IN SILT FENCES AND BARRIERS IMMEDIATELY. REPLACE DECOMPOSING STRAW BALES (TYPICAL BALE LIFE IS 3 MONTHS). LOCATE, INSTALL, AND MAINTAIN STRAW BALES PER WDNR TECHNICAL STANDARD DITCH CHECKS #1062.
19. INSTALL AND MAINTAIN FILTER SOCKS IN ACCORDANCE WITH WDNR TECHNICAL STANDARD INTERIM MANUFACTURED PERIMETER CONTROL AND SLOPE INTERRUPTION PRODUCTS # 1071.
20. IMMEDIATELY STABILIZE STOCKPILES AND SURROUND STOCKPILES AS NEEDED WITH SILT FENCE OR OTHER PERIMETER CONTROL IF STOCKPILES WILL REMAIN INACTIVE FOR 7 DAYS OR LONGER.
21. IMMEDIATELY STABILIZE ALL DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR 14 DAYS OR LONGER. BETWEEN SEPTEMBER 15 AND OCTOBER 15: STABILIZE WITH MULCH, TACKIFIER, AND A PERENNIAL SEED MIXED WITH WINTER WHEAT, ANNUAL OATS, OR ANNUAL RYE, AS APPROPRIATE FOR REGION AND SOIL TYPE OCTOBER 15 THROUGH COLD WEATHER: STABILIZE WITH A POLYMER AND DORMANT SEED MIX, AS APPROPRIATE FOR REGION AND SOIL TYPE.
22. STABILIZE AREAS OF FINAL GRADING WITHIN 7 DAYS OF REACHING FINAL GRADE.
23. SWEEP/CLEAN UP ALL SEDIMENT/TRASH THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS BEFORE THE END OF THE SAME WORKDAY OR AS DIRECTED BY THE AUTHORITIES WITH JURISDICTION. SEPARATE SWEPT MATERIALS (SOILS AND TRASH) AND DISPOSE OF APPROPRIATELY.
24. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST PER WDNR TECHNICAL STANDARD DUST CONTROL ON CONSTRUCTION SITES # 1068.
25. PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED BY RUNOFF INTO THE RECEIVING CHANNEL.
26. COORDINATE WITH THE AUTHORITIES WITH JURISDICTION TO UPDATE THE LAND DISTURBANCE PERMIT TO INDICATE THE ANTICIPATED OR LIKELY DISPOSAL LOCATIONS FOR ANY EXCAVATED SOILS OR CONSTRUCTION DEBRIS THAT WILL BE HAULED OFF-SITE FOR DISPOSAL. THE DEPOSITED OR STOCKPILED MATERIAL NEEDS TO INCLUDE PERIMETER SEDIMENT CONTROL MEASURES (SUCH AS SILT FENCE, HAY BALES, FILTER SOCKS, OR COMPACTED EARTHEN BERMS).
27. FOR NON-CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED SLOPES, PROVIDE CLASS CLASS I TYPE B EROSION CONTROL MATTING. INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD NON-CHANNEL EROSION MAT #1052.
28. FOR CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED AREAS, PROVIDE CLASS II TYPE B EROSION CONTROL MATTING UNLESS OTHERWISE SPECIFIED ON THE PLAN. INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD CHANNEL EROSION MAT #1053.
29. MAKE PROVISIONS FOR WATERING DURING THE FIRST 8 WEEKS FOLLOWING SEEDING OR PLANTING OF DISTURBED AREAS WHENEVER MORE THAN 7 CONSECUTIVE DAYS OF DRY WEATHER OCCUR.
30. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE WDNR REMEDIATION AND WASTE MANAGEMENT REQUIREMENTS FOR HANDLING AND DISPOSING OF CONTAMINATED MATERIALS. SITE-SPECIFIC INFORMATION FOR AREAS WITH KNOWN OR SUSPECTED SOIL AND/OR GROUNDWATER CONTAMINATION CAN BE FOUND ON WDNR'S BUREAU OF REMEDIATION AND REDEVELOPMENT TRACKING SYSTEM (BRRTS) PUBLIC DATABASE AT: http://dnr.wi.gov/botw/
31. INSTALL AND MAINTAIN A CONCRETE WASHOUT BASIN PER EPA 833-F-11-006: https://www3.epa.gov/npdes/pubs/concretewashout.pdf. REQUIRE USE BY ALL CONCRETE CONTRACTORS. LIQUID MAY BE REUSED IN CONCRETE MIXING, EVAPORATED, OR DISPOSED OF AS WASTEWATER.



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PROJECT INFORMATION

MMSD - WEST HIGH SCHOOL

30 ASH ST,
MADISON, WI 53726

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
06/01/2021	INITIAL UDC AND PLAN COMMISSION

KEY PLAN

SHEET INFORMATION

PROGRESS DOCUMENTS NOT FOR CONSTRUCTION

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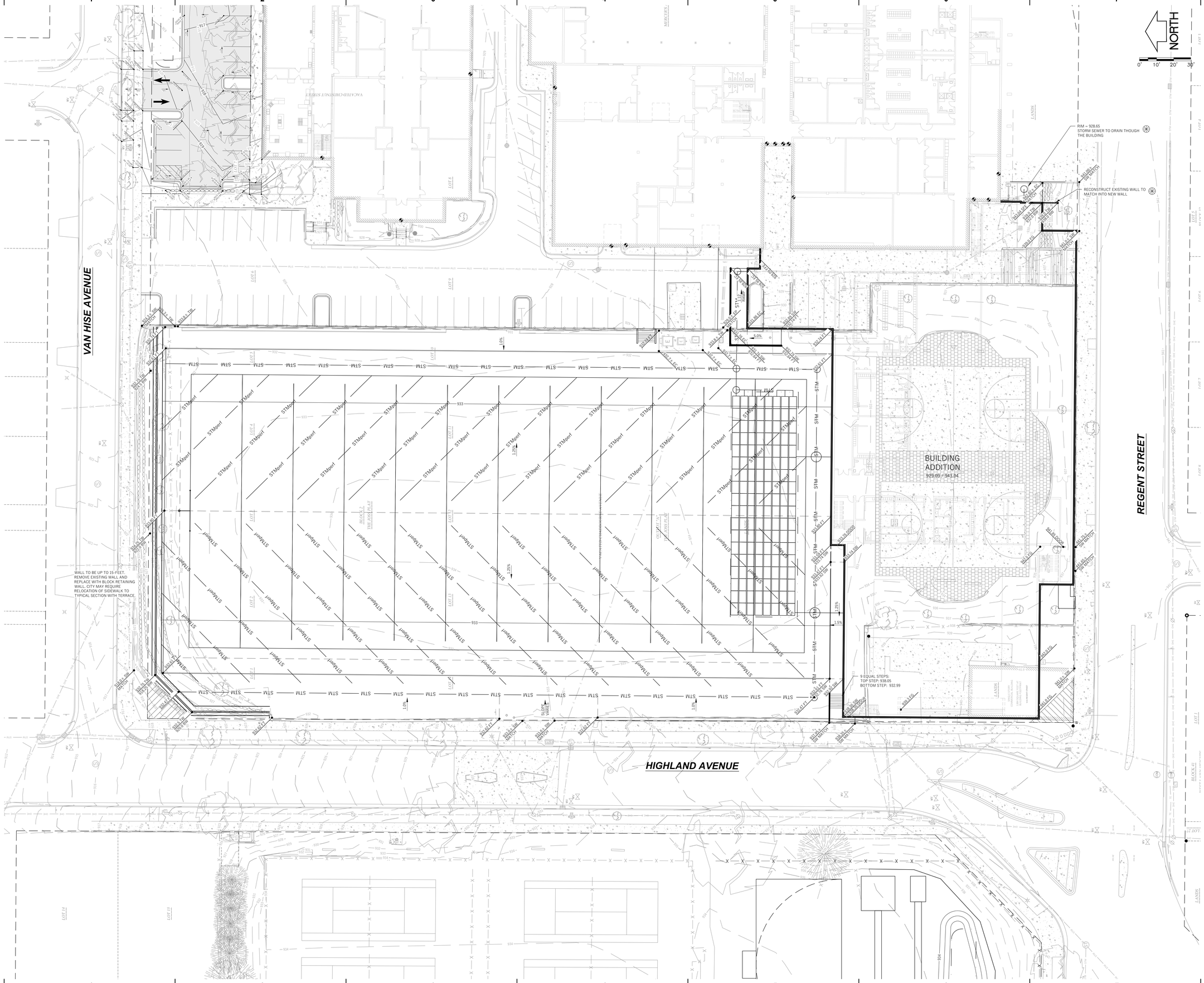
PROJECT MANAGER	JM
PROJECT NUMBER	20535-01

GRADING & EROSION CONTROL PLAN

C200



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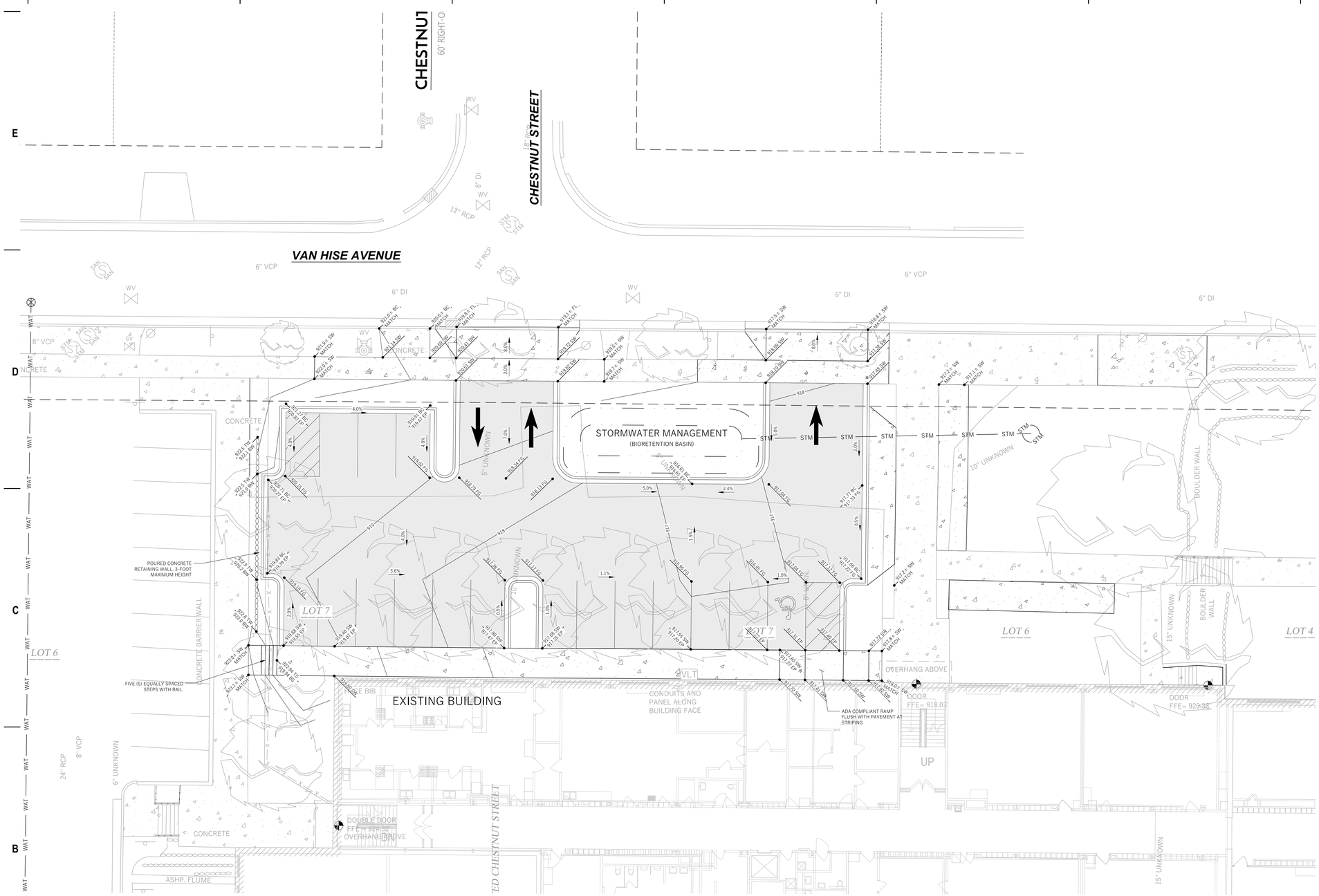
PROJECT MANAGER	JM
PROJECT NUMBER	20535-01

GRADING PLAN - ATHLETIC FIELD

C201



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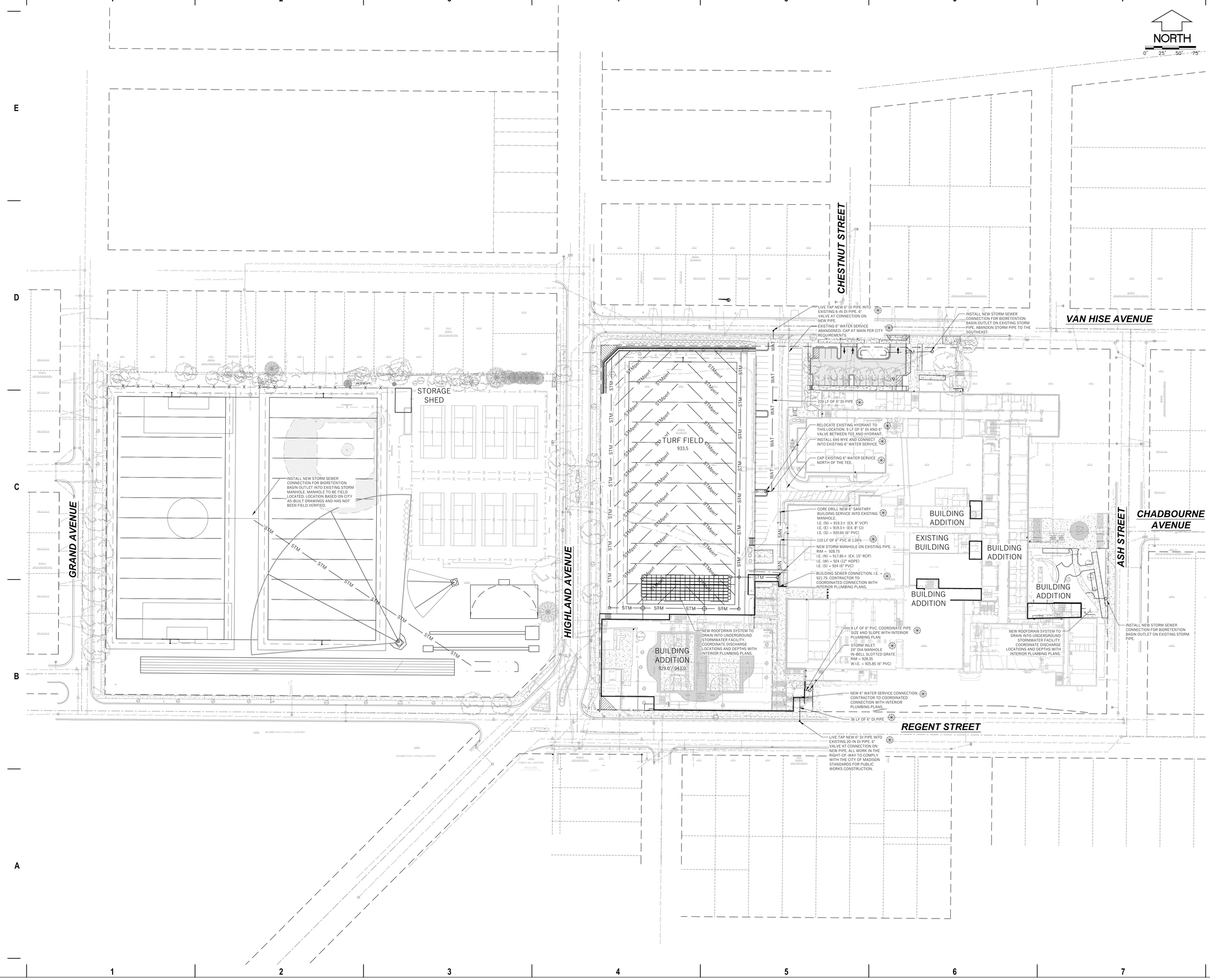
PROJECT MANAGER	JM
PROJECT NUMBER	20535-01

GRADING PLAN - NORTH PARKING LOT

C202



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PROJECT INFORMATION

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30 ASH ST
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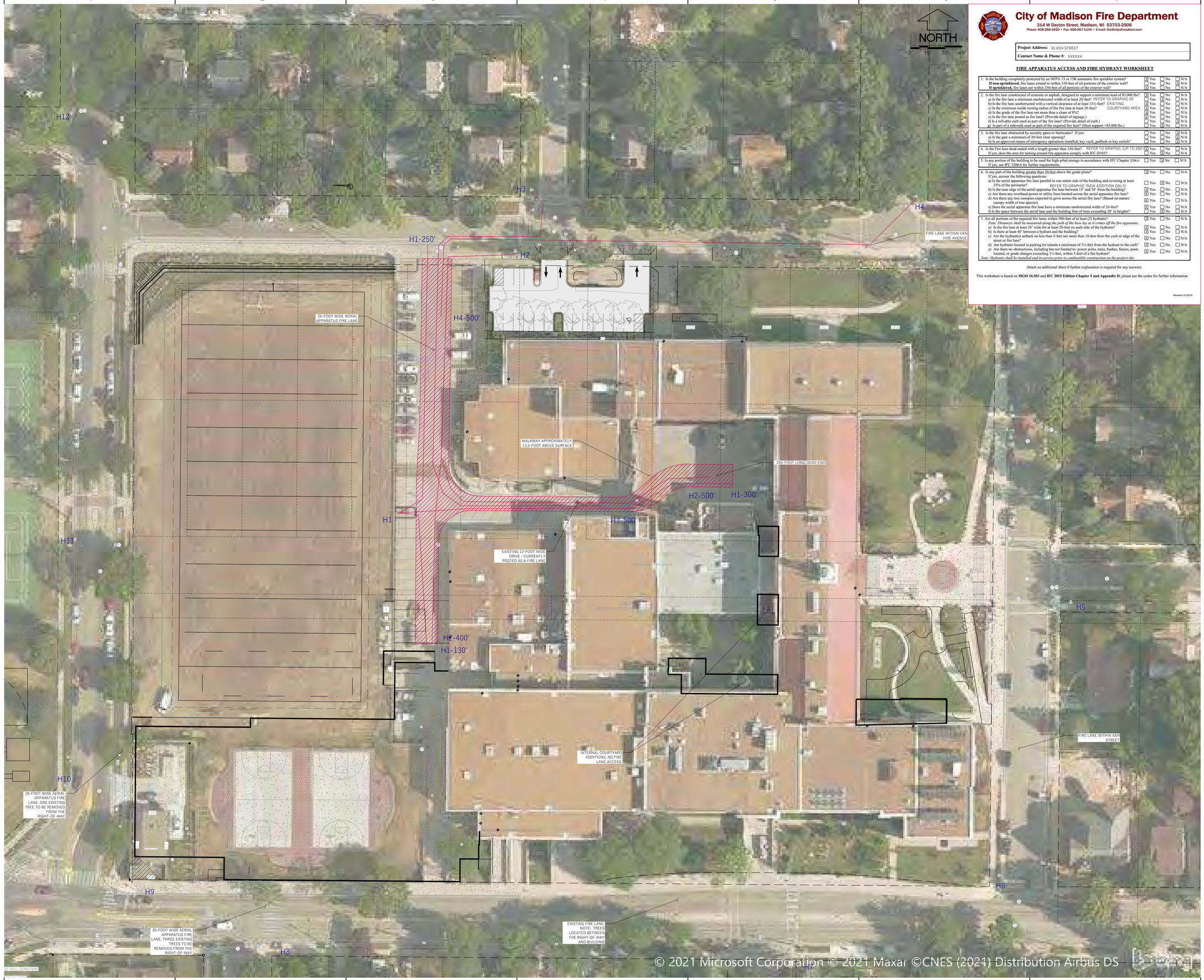
PROJECT MANAGER	JM
PROJECT NUMBER	20535-01

UTILITY PLAN

C300



City of Madison Fire Department

314 W Dayton Street, Madison, WI 53703-2506
Phone: 608-266-4420 • Fax: 608-267-1100 • E-mail: fire@cityofmadison.com

Project Address: 30 ASH STREET

Contact Name & Phone #: XXXXXX

FIRE APPARATUS ACCESS AND FIRE HYDRANT WORKSHEET

1. Is the building completely protected by an NFPA 13 or 13R automatic fire sprinkler system?	☒ Yes	☐ No	☐ N/A
If non-sprinklered, fire lanes extend to within 150-feet of all portions of the exterior wall?	☐ Yes	☐ No	☒ N/A
If sprinklered, fire lanes are within 250-feet of all portions of the exterior wall?	☒ Yes	☐ No	☐ N/A
2. Is the fire lane constructed of concrete or asphalt, designed to support a minimum load of 85,000 lbs?	☒ Yes	☐ No	☐ N/A
a) Is the fire lane a minimum unobstructed width of at least 20-feet? REFER TO GRAPHIC OF	☒ Yes	☐ No	☐ N/A
b) Is the fire lane unobstructed with a vertical clearance of at least 13½-feet? EXISTING	☒ Yes	☐ No	☐ N/A
c) Is the minimum inside turning radius of the fire lane at least 28-feet? COURTYARD AREA	☒ Yes	☐ No	☐ N/A
d) Is the grade of the fire lane not more than a slope of 8%?	☒ Yes	☐ No	☐ N/A
e) Is the fire lane posted as fire lane? (Provide detail of signage.)	☐ Yes	☐ No	☒ N/A
f) Is a roll-able curb used as part of the fire lane? (Provide detail of curb.)	☐ Yes	☐ No	☒ N/A
g) Is part of a sidewalk used as part of the required fire lane? (Must support +85,000 lbs.)	☒ Yes	☐ No	☐ N/A
3. Is the fire lane obstructed by security gates or barricades? If yes:	☐ Yes	☐ No	☒ N/A
a) Is the gate a minimum of 20-feet clear opening?	☐ Yes	☐ No	☒ N/A
b) Is an approved means of emergency operations installed, key vault, padlock or key switch?	☐ Yes	☐ No	☒ N/A
4. Is the Fire lane dead-ended with a length greater than 150-feet? REFER TO GRAPHIC (UP TO 250')	☒ Yes	☐ No	☐ N/A
If yes, does the area for turning around fire apparatus comply with IFC D103?	☐ Yes	☒ No	☐ N/A
5. Is any portion of the building to be used for high-piled storage in accordance with IFC Chapter 3206.6 If yes, see IFC 3206.6 for further requirements.	☐ Yes	☒ No	☐ N/A
6. Is any part of the building greater than 30-feet above the grade plane?	☒ Yes	☐ No	☐ N/A
If yes, answer the following questions:			
a) Is the aerial apparatus fire lane parallel to one entire side of the building and covering at least 25% of the perimeter? REFER TO GRAPHIC (NEW ADDITION ONLY)	☐ Yes	☒ No	☐ N/A
b) Is the near edge of the aerial apparatus fire lane between 15' and 30' from the building?	☒ Yes	☐ No	☐ N/A
c) Are there any overhead power or utility lines located across the aerial apparatus fire lane?	☒ Yes	☐ No	☐ N/A
d) Are there any tree canopies expected to grow across the aerial fire lane? (Based on mature canopy width of tree species)	☒ Yes	☐ No	☐ N/A
e) Does the aerial apparatus fire lane have a minimum unobstructed width of 26-feet?	☒ Yes	☐ No	☐ N/A
f) Is the space between the aerial lane and the building free of trees exceeding 20' in height?	☐ Yes	☒ No	☐ N/A
7. Are all portions of the required fire lanes within 500-feet of at least (2) hydrants?	☒ Yes	☐ No	☐ N/A
Note: Distances shall be measured along the path of the hose lay as it comes off the fire apparatus.			
a) Is the fire lane at least 26' wide for at least 20-feet on each side of the hydrants?	☒ Yes	☐ No	☐ N/A
b) Is there at least 40' between a hydrant and the building?	☒ Yes	☐ No	☐ N/A
c) Are the hydrant(s) setback no less than 5-feet nor more than 10-feet from the curb or edge of the street or fire lane?	☒ Yes	☐ No	☐ N/A
d) Are hydrants located in parking lot islands a minimum of 3½-feet from the hydrant to the curb?	☒ Yes	☐ No	☐ N/A
e) Are there no obstructions, including but not limited to: power poles, trees, bushes, fences, posts located, or grade changes exceeding 1½-feet, within 5-feet of a fire hydrant?	☒ Yes	☐ No	☐ N/A

Note: Hydrants shall be installed and in-service prior to combustible construction on the project site.

Attach an additional sheet if further explanation is required for any answers.

This worksheet is based on **MGO 34.503** and **IFC 2015 Edition Chapter 5 and Appendix D**; please see the codes for further information.

Revised 10/1/2016

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PROJECT INFORMATION

MMSD - WEST HIGH SCHOOL

30 ASH ST, MADISON, WI 53726

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
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KEY PLAN

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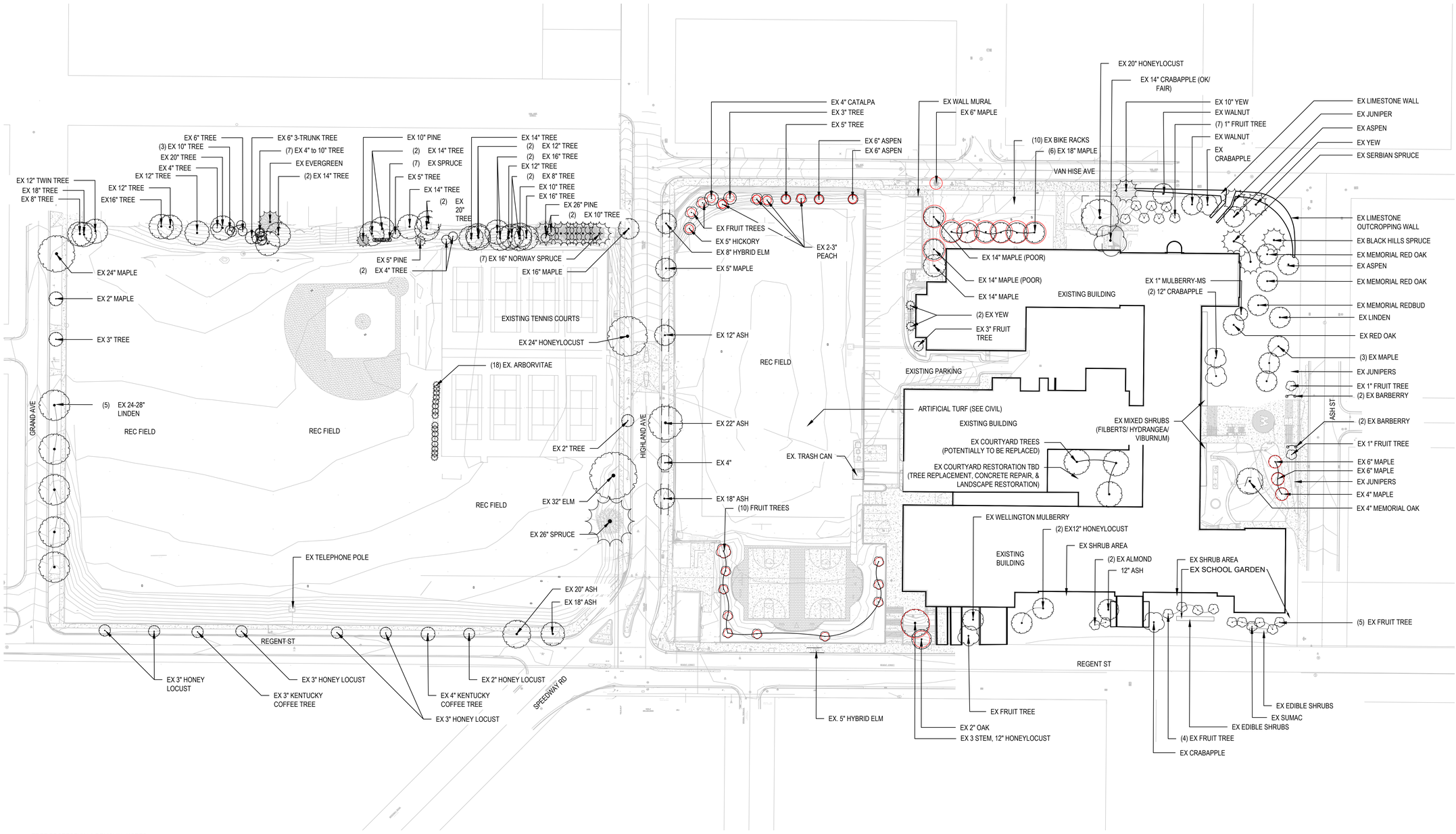
PROJECT MANAGER JM

PROJECT NUMBER 20535-01

FIRE APPARATUS PLAN

C001



TREE PROTECTION & REMOVAL NOTES

1. All proposed street tree removals within the right of way shall be reviewed by City Forestry before the Plan Commission meeting. Street tree removals require approval and a tree removal permit issued by City Forestry. Any street tree removals requested after the development plan is approved by the Plan Commission or the Board of Public Works and City Forestry will require a minimum of a 72-hour review period which shall include the notification of the Alderperson within who's district is affected by the street tree removal(s) prior to a tree removal permit being issued.

2. Contractor shall contact City Forestry at 266-4816 to issue a street tree removal permit for (X) tree(s) (dbh) diameter (variety) tree due to (reason) at (location).

3. As defined by the Section 107.13 of City of Madison Standard Specifications for Public Works Construction: No excavation is permitted within 5 feet of the trunk of the street tree or when cutting roots over 3 inches in diameter. If excavation is necessary, the Contractor shall contact Madison City Forestry (266-4816) prior to excavation. City of Madison Forestry personnel shall assess the impact to the tree and to its root system prior to work commencing. Tree protection specifications can be found on the following website: https://www.cityofmadison.com/business/pw/specs.cfm

4. Contractor shall take precautions during construction to not disfigure, scar, or impair the health of any street tree. Contractor shall operate equipment in a manner as to not damage the branches of the street tree(s). This may require using smaller equipment and loading and unloading materials in a designated space away from trees on the construction site. Any damage or injury to existing street trees (either above or below ground) shall be reported immediately to City Forestry at 266-4816. Penalties and remediation shall be required.

5. Section 107.13(g) of City of Madison Standard Specifications for Public Works Construction addresses soil compaction near street trees and shall be followed by Contractor. The storage of parked vehicles, construction equipment, building materials, refuse, excavated spoils or dumping of poisonous materials on or around trees and roots within five (5) feet of the tree or within the protection zone is prohibited.

6. On this project, street tree protection zone fencing is required. The fencing shall be erected before the demolition, grading or construction begins. The fence shall include the entire width of terrace and, extend at least 5 feet on both sides of the outside edge of the tree trunk. Do not remove the fencing to allow for deliveries or equipment access through the tree protection zone.

7. Street tree pruning shall be coordinated with Madison Forestry at a minimum of two weeks prior to the start of construction for this project. All pruning shall follow the American National Standards Institute (ANSI) A300 - Part 1 Standards for pruning.

8. At least one week prior to street tree planting, Contractor shall contact City Forestry at (608) 266-4816 to schedule inspection and approval of nursery tree stock and review planting specifications with the landscaper.

9. Forestry Specialist: Wayne Buckley (District 2, 4, 6, and 10)
   - 9.1. Wayne Buckley
   - 9.2. 608.220.0637 (Cell)
   - 9.3. 608.266.4892 (Office)
   - 9.4. wbuckley@cityofmadison.com

LEGEND

- EXISTING SHADE TREES
- EXISTING FRUIT/ NUT/ ORNAMENTAL TREES
- EXISTING EVERGREEN TREES
- EXISTING TREES TO BE REMOVED/ TRANSPLANTED

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PROJECT INFORMATION

MMSD - WEST HIGH SCHOOL ADDITION & RENOVATION

30 ASH ST.
MADISON, WI 53726

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
06/01/2021	INITIAL UDC AND PLAN COMMISSION

KEY PLAN

0 50' 100'
1" = 50'-0"

SHEET INFORMATION

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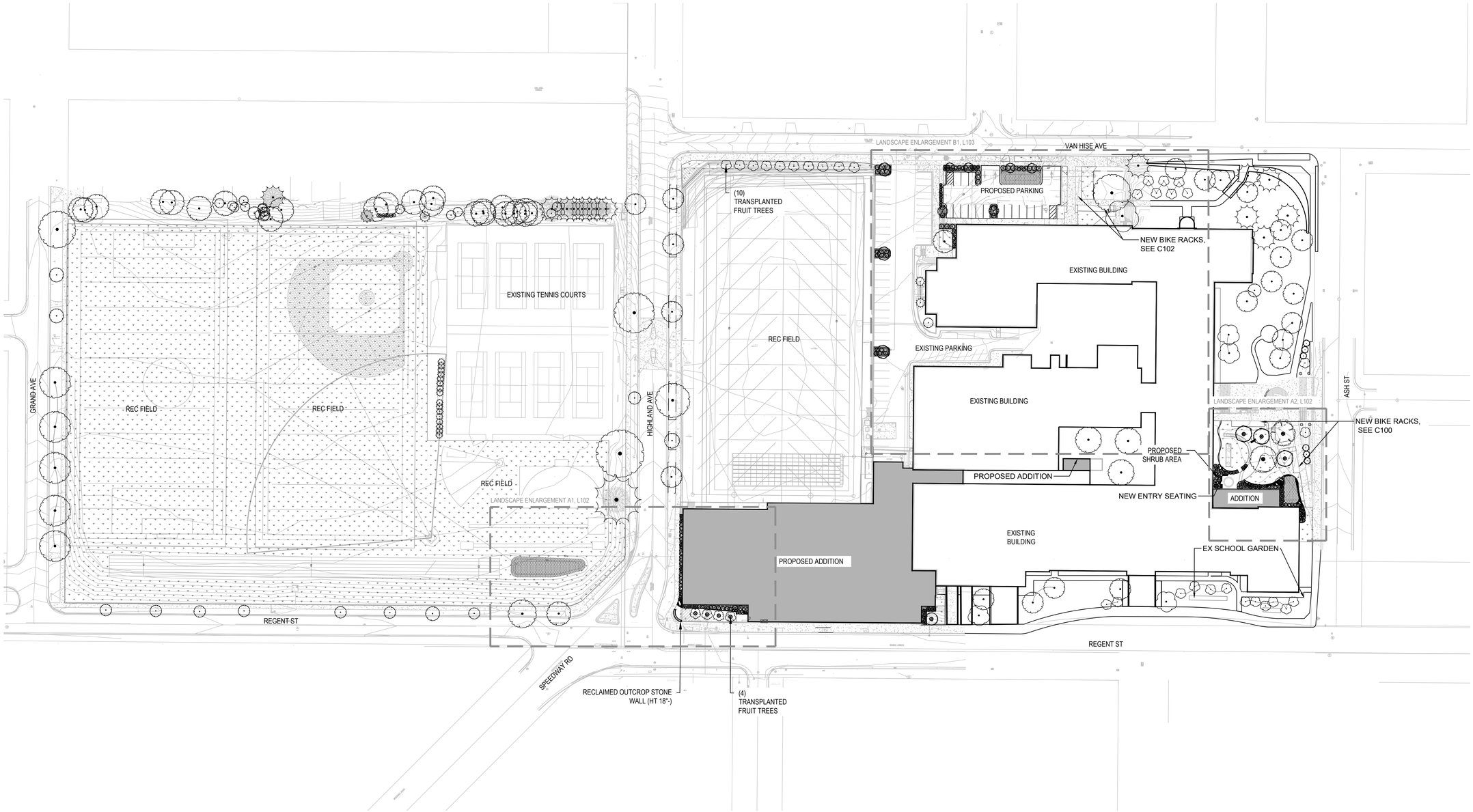
PROJECT MANAGER

PROJECT NUMBER

EXISTING CONDITIONS

L100



PLANT SCHEDULE

DECIDUOUS TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE
	AF	1	Aesculus flava x glabra `Deck Select` / Mystic Vision Buckeye	B&B	2.5"Cal
	Cp	2	Celtis occidentalis 'JFS-KSU1' TM / Prairie Sentinel Common Hackberry	B&B	2"Cal
EVERGREEN TREES	**CODE**	**QTY**	**BOTANICAL / COMMON NAME**	**CONT**	**SIZE**
	Jm2	4	Juniperus chinensis `Mountbatten` / Mountbatten Juniper	B & B	5` HT. (MIN)
	JCT	10	Juniperus chinensis `Trautman` / Trautman Juniper	B&B	5` HT. (MIN)
ORNAMENTAL TREES	**CODE**	**QTY**	**BOTANICAL / COMMON NAME**	**CONT**	**SIZE**
	ATG	3	Acer tataricum `GarAnn` TM / Hot Wings Tatarian Maple	B&B	2.5"Cal
	CC	3	Carpinus caroliniana / American Hornbeam	B&B	2.5"Cal
	CM	1	Cornus mas `Golden Glory` / Golden Glory Cornelian Cherry	B & B	1.5"Cal
	HV	1	Hamamelis virginiana / Common Witch Hazel	B & B	6`HT (MIN.), MULTI-STEMMED
	Ma	4	Malus x `Adirondack` / Adirondack Crabapple	B&B	2"Cal
	OV	1	Ostrya virginiana / American Hophornbeam	B&B	

NOTE: PLANT SCHEDULE FOR SHRUBS, PERENNIALS, & BIORETENTION BASIN CAN BE FOUND ON L102. SEE SHEET L100 FOR TREE PROTECTION INFORMATION.

LEGEND

- EXISTING SHADE TREES
- EXISTING FRUIT/ NUT/ ORNAMENTAL TREES
- EXISTING EVERGREEN TREES
- TREE PROTECTION
- BLUEGRASS SEED
- LANDSCAPE AREA: SHREDDED HARDWOOD MULCH
- BIORETENTION PLUGS
- RECLAIMED OUTCROP STONE
- SEATING AND TRASH/REC RECEPTACLES

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PROJECT INFORMATION

MMSD - WEST HIGH SCHOOL ADDITION & RENOVATION

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0 50' 100'
1" = 50'-0"

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PROJECT MANAGER

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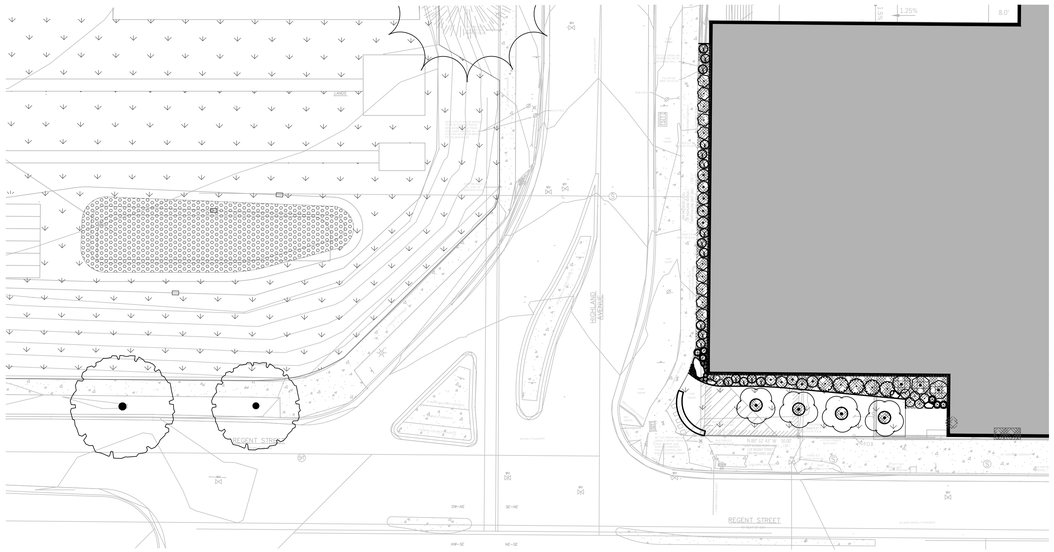
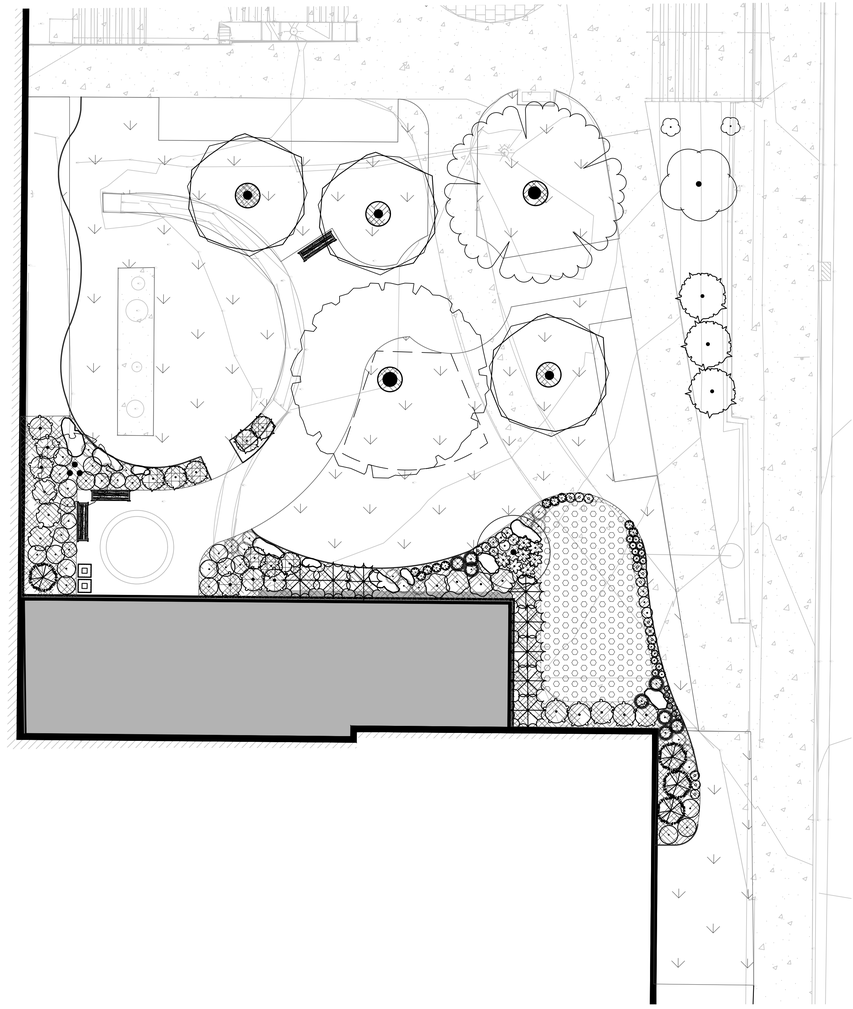
LANDSCAPE PLAN

L101



A1 LANDSCAPE ENLARGEMENT 1
SCALE: 1" = 20'-0"



A2 LANDSCAPE ENLARGEMENT 2
SCALE: 1" = 10'-0"

EVERGREEN SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT
	Jm	11	Juniperus sabina `Monna` / Calgary Carpet Juniper	5 gal
	Jb	21	Juniperus sabina 'Blue Forest' / Blue Forest Juniper	5 gal
	Tmt	13	Taxus x media `Tauntoni` / Tauton Yew	5 gal
ORNAMENTAL GRASSES	**CODE**	**QTY**	**BOTANICAL / COMMON NAME**	**CONT**
	sss	14	Schizachyrium scoparium `Smoke Signal` / Smoke Signal Little Bluestem	1 gal
	sht	27	Sporobolus heterolepis `Tara` / Prairie Dropseed	1 gal
DECIDUOUS SHRUBS	**CODE**	**QTY**	**BOTANICAL / COMMON NAME**	**CONT**
	Ai	24	Aronia melanocarpa `Morton` / Iroquois Beauty Black Chokeberry	3 gal
	Cf	5	Cornus stolonifera `Farrow` TM / Arctic Fire Red Twig Dogwood	3 gal
	Ca	3	Corylus americana / American Hazelnut	5 gal
	Cl	22	Diervilla lonicera `Michigan Sunset` / Dwarf Bush Honeysuckle	3 gal
	Hp	11	Hydrangea paniculata `Little Quick Fire` / Little Quick Fire Panicle Hydrangea	5 gal
	Ha2	7	Hypericum kalmianum 'Ames' / Ames St. Johnswort	3 gal
	Pd	23	Physocarpus opulifolius `Donna May` TM / Little Devil Ninebark	3 gal
	Ra	22	Rhus aromatica `Gro-Low` / Gro-Low Fragrant Sumac	3 gal
	Vc	5	Viburnum cassinoides / Witherod Viburnum	3 gal
	Vdl	3	Viburnum dentatum `KLMseventeen` TM / Little Joe Viburnum	3 gal

HERBACEOUS PERENNIALS	CODE	QTY	BOTANICAL / COMMON NAME	CONT
	am	16	Allium x `Millenium` / Millenium Ornamental Onion	1 gal
	abi	13	Amsonia x `Blue Ice` / Blue Ice Bluestar	1 gal
	gbk	8	Geranium x cantabrigiense `Biokovo Karmina` / Biokovo Karmina Hybrid Cranesbill	1 gal
	iga	18	Iris germanica `Armageddon` / Armageddon German Iris	1 gal
	Ms	7	Matteuccia struthiopteris / Ostrich Fern	1 gal
	neb	15	Nepeta x `Early Bird` / Early Bird Catmint	1 gal

GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SPACING
		3,107 sf	BIORETENTION BASIN			
	acn	323	Allium cernuum / Nodding Onion	3" plug		10% @ 12" o.c.
	dpp	323	Dalea purpurea / Purple Prairie Clover	3" plug		10% @ 12" o.c.
	ivb	323	Iris versicolor / Blue Flag	3" plug		10% @ 12" o.c.
	lsg	323	Lobelia siphilitica / Great Lobelia	3" plug		10% @ 12" o.c.
	mfb	323	Monarda fistulosa / Bergamot	3" plug		10% @ 12" o.c.
	pvg	323	Panicum virgatum / Switch Grass	3" plug		10% @ 12" o.c.
	rss	323	Rudbeckia subtomentosa / Sweet Black-eyed Susan	3" plug		10% @ 12" o.c.
	sng	323	Sorghastrum nutans / Indian Grass	3" plug		10% @ 12" o.c.
	shp	323	Sporobolus heterolepis / Prairie Dropseed	3" plug		10% @ 12" o.c.
	sna	323	Symphyotrichum novae-angliae / New England Aster	3" plug		10% @ 12" o.c.

LEGEND

- EXISTING SHADE TREES
- EXISTING FRUIT/ NUT/ ORNAMENTAL TREES
- EXISTING EVERGREEN TREES
- TREE PROTECTION
- BLUEGRASS SEED
- LANDSCAPE AREA: SHREDDED HARDWOOD MULCH
- BIORETENTION PLUGS
- RECLAIMED OUTCROP STONE
- SEATING AND TRASH/REC RECEPTACLES

NOTE: PLANT SCHEDULE FOR TREES CAN BE FOUND ON L101. SEE SHEET L100 FOR TREE PROTECTION INFORMATION.

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PROJECT INFORMATION

MMSD - WEST HIGH SCHOOL ADDITION & RENOVATION

30 ASH ST.
MADISON, WI 53726

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
06/01/2021	INITIAL UDC AND PLAN COMMISSION

KEY PLAN

NORTH

SHEET INFORMATION

PROGRESS DOCUMENTS NOT FOR CONSTRUCTION

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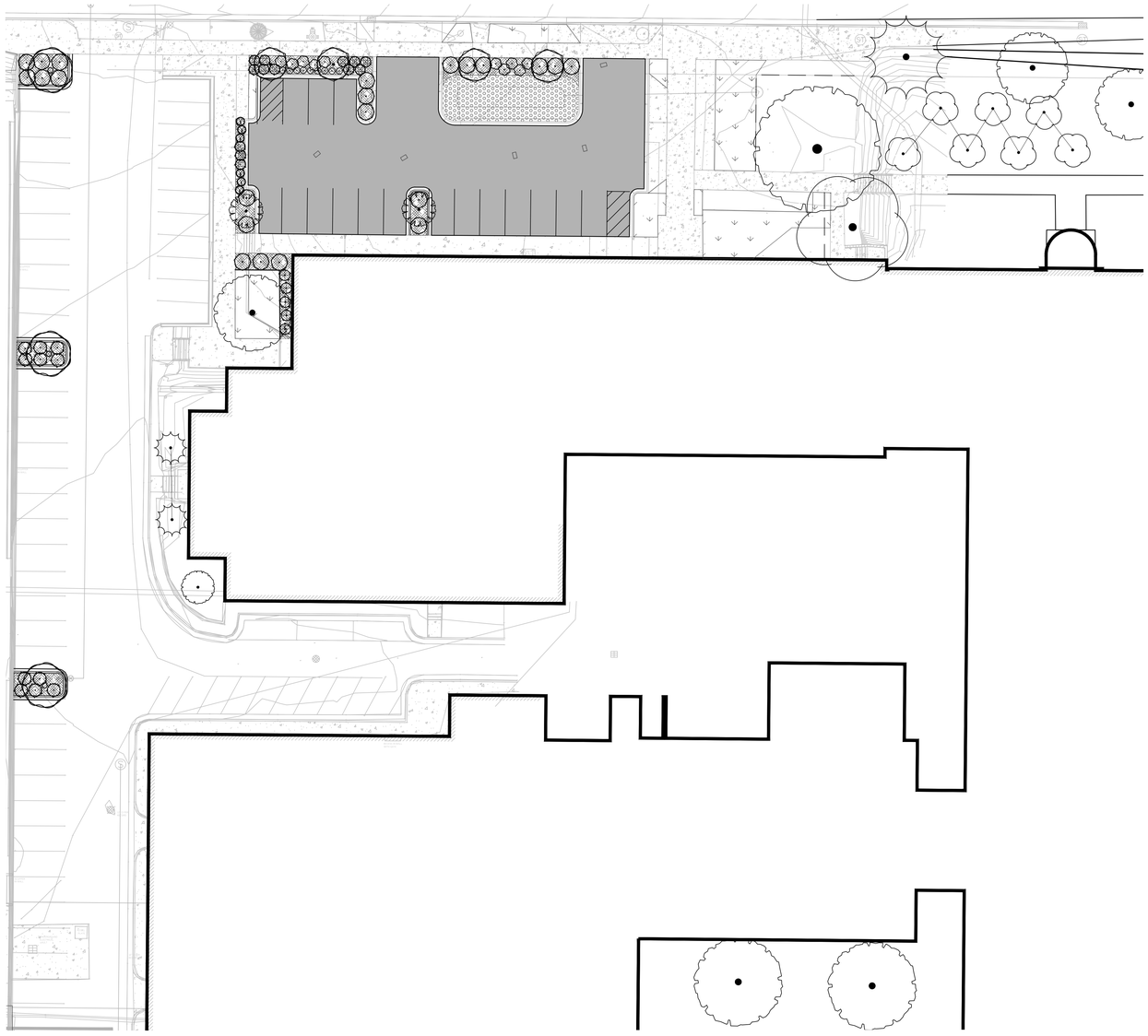
PROJECT MANAGER

PROJECT NUMBER

LANDSCAPE ENLARGEMENTS

L102



B1 LANDSCAPE ENLARGEMENT 1
SCALE: 1" = 20'-0"

LEGEND

- EXISTING SHADE TREES
- EXISTING FRUIT/ NUT/ ORNAMENTAL TREES
- EXISTING EVERGREEN TREES
- TREE PROTECTION
- BLUEGRASS SEED
- LANDSCAPE AREA: SHREDDED HARDWOOD MULCH
- BIORETENTION PLUGS
- RECLAIMED OUTCROP STONE
- SEATING AND TRASH/REC RECEPTACLES

NOTE: PLANT SCHEDULE FOR TREES CAN BE FOUND ON L101. PLANT SCHEDULE FOR SHRUBS, PERENNIALS, & BIORETENTION BASIN CAN BE FOUND ON L102. SEE SHEET L100 FOR TREE PROTECTION INFORMATION.

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PROJECT INFORMATION

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PROJECT MANAGER

PROJECT NUMBER

LANDSCAPE ENLARGEMENTS

L103

1. VIEW VAN HISE

2. VIEW VAN HISE LOOKING WEST

3. VIEW VAN HISE LOOKING WEST

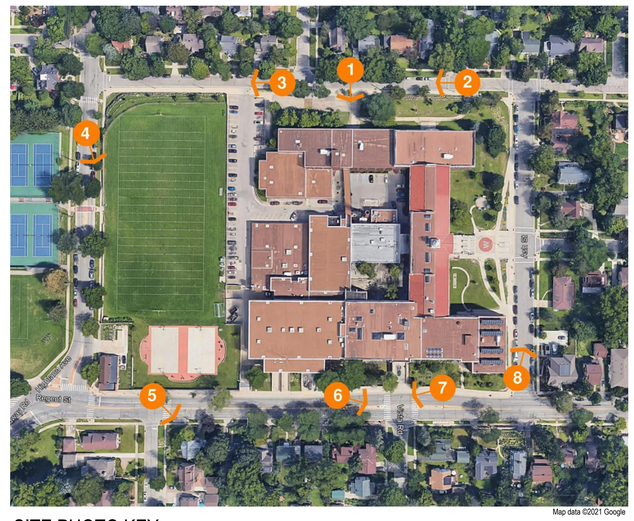
4. VIEW ON HIGHLAND AVE LOOKING SOUTH

5. VIEW REGENT STREET LOOKING SOUTHEAST

6. VIEW REGENT STREET LOOKING EAST

7. VIEW REGENT LOOKING WEST

8. VIEW ON ASH STREET LOOKING NORTH



SITE PHOTO KEY

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PROJECT MANAGER JM

PROJECT NUMBER 20535-01

EXISTING SITE IMAGES

A-00

1. VIEW AT THE CORNER ASH STREET AND REGENT STREET

2. VIEW OF ASH STREET ENTRANCE

3. VIEW FROM ASH STREET

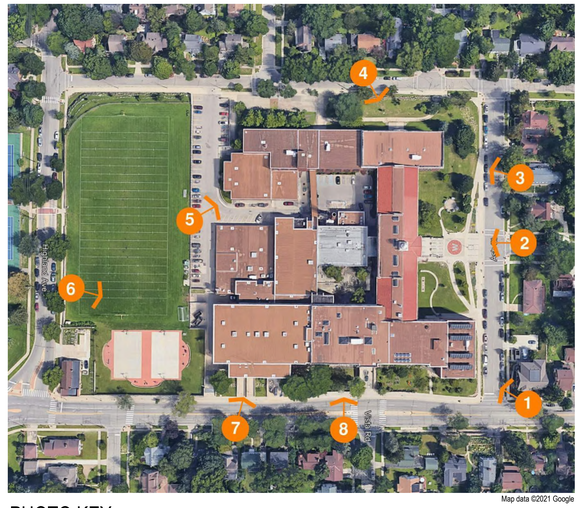
4. VIEW FROM ASH STREET TO NORTH ELEVATION

5. VIEW OF VAN HISE GYM

6. VIEW TO WEST GYM

7. VIEW FROM REGENT STREET TO GYM

8. VIEW TO REGENT STREET ENTRANCE



Map data ©2021 Google

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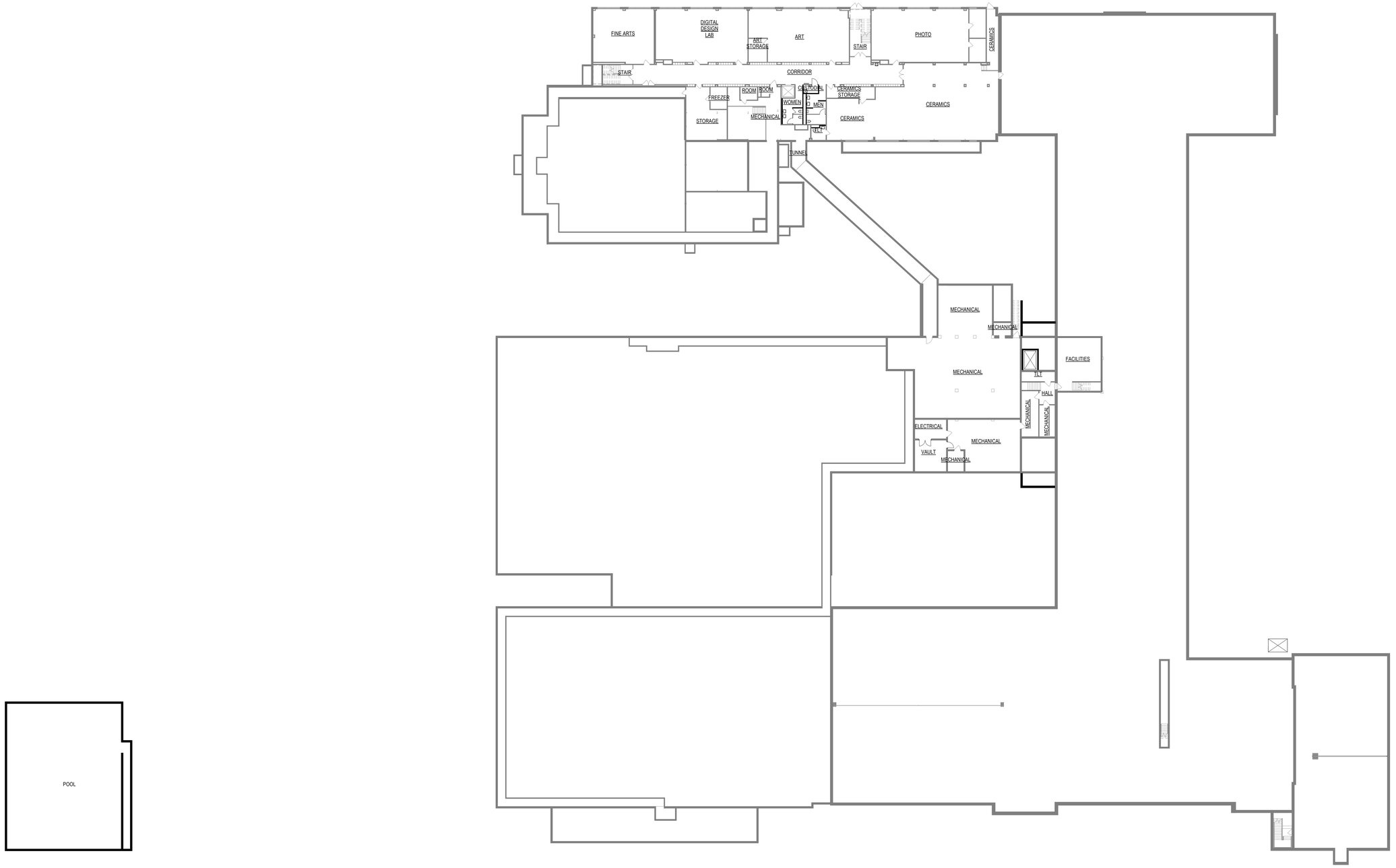
PROJECT MANAGER JM

PROJECT NUMBER 20535-01

ARCHITECTURAL DESIGN CONTEXT

A-01



A2 LOWER LEVEL FLOOR PLAN
3/64" = 1'-0"

0' 8' 16' 32' 48'
SCALE: 3/64" = 1'-0"

FLOOR PLAN LEGEND

BUILDING ADDITION

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PROJECT INFORMATION

MMSD - WEST HS ADDITION AND RENOVATION

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ISSUANCE AND REVISIONS

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KEY PLAN

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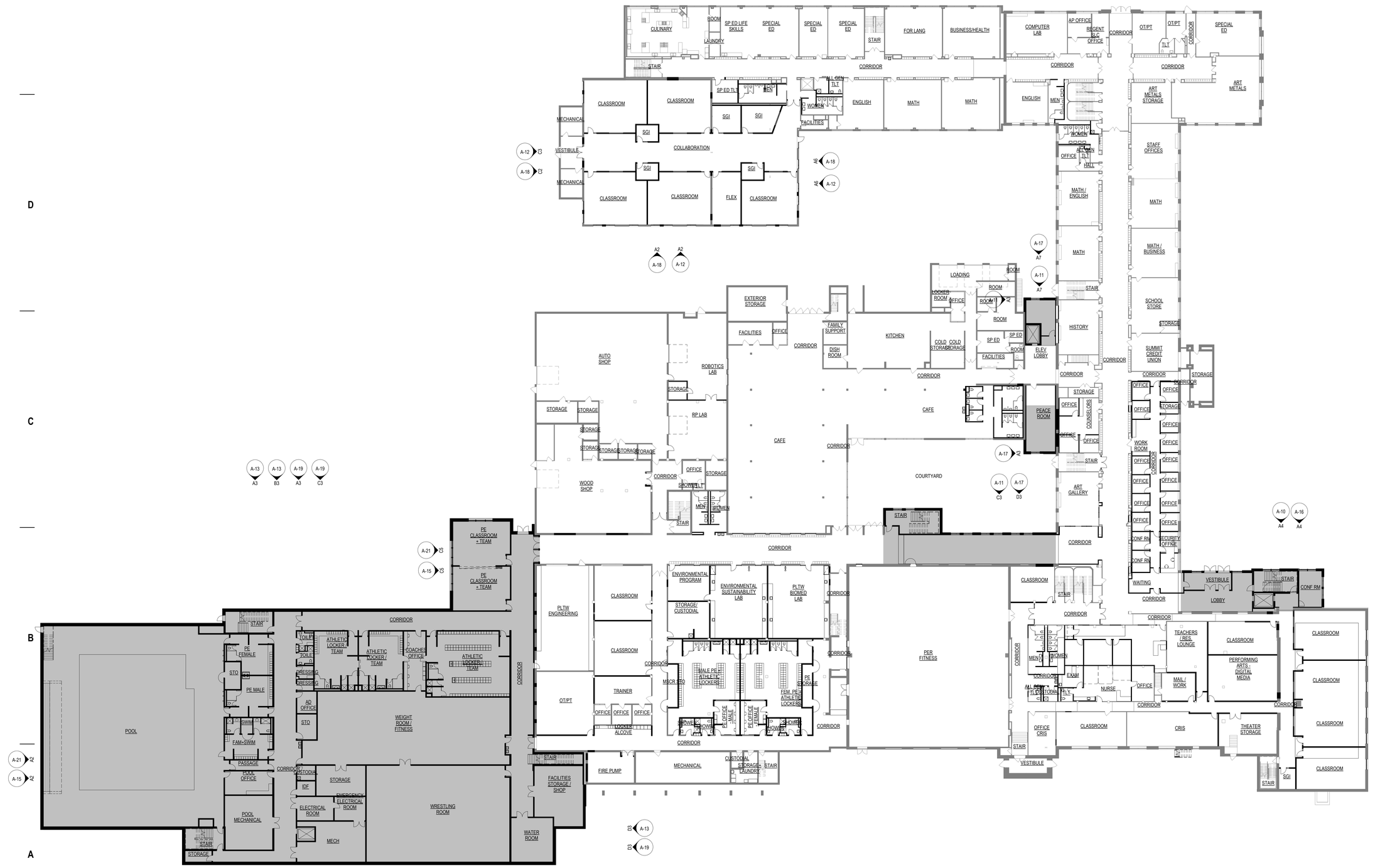
PROJECT MANAGER JM

PROJECT NUMBER 20535-01

LOWER LEVEL FLOOR PLAN

A-02



N

A2 1ST FLOOR PLAN

3/64" = 1'-0"

0' 8' 16' 32' 48'

SCALE: 3/64" = 1'-0"

FLOOR PLAN LEGEND

BUILDING ADDITION

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PROJECT INFORMATION

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ISSUANCE AND REVISIONS

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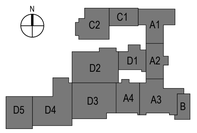
KEY PLAN



SHEET INFORMATION

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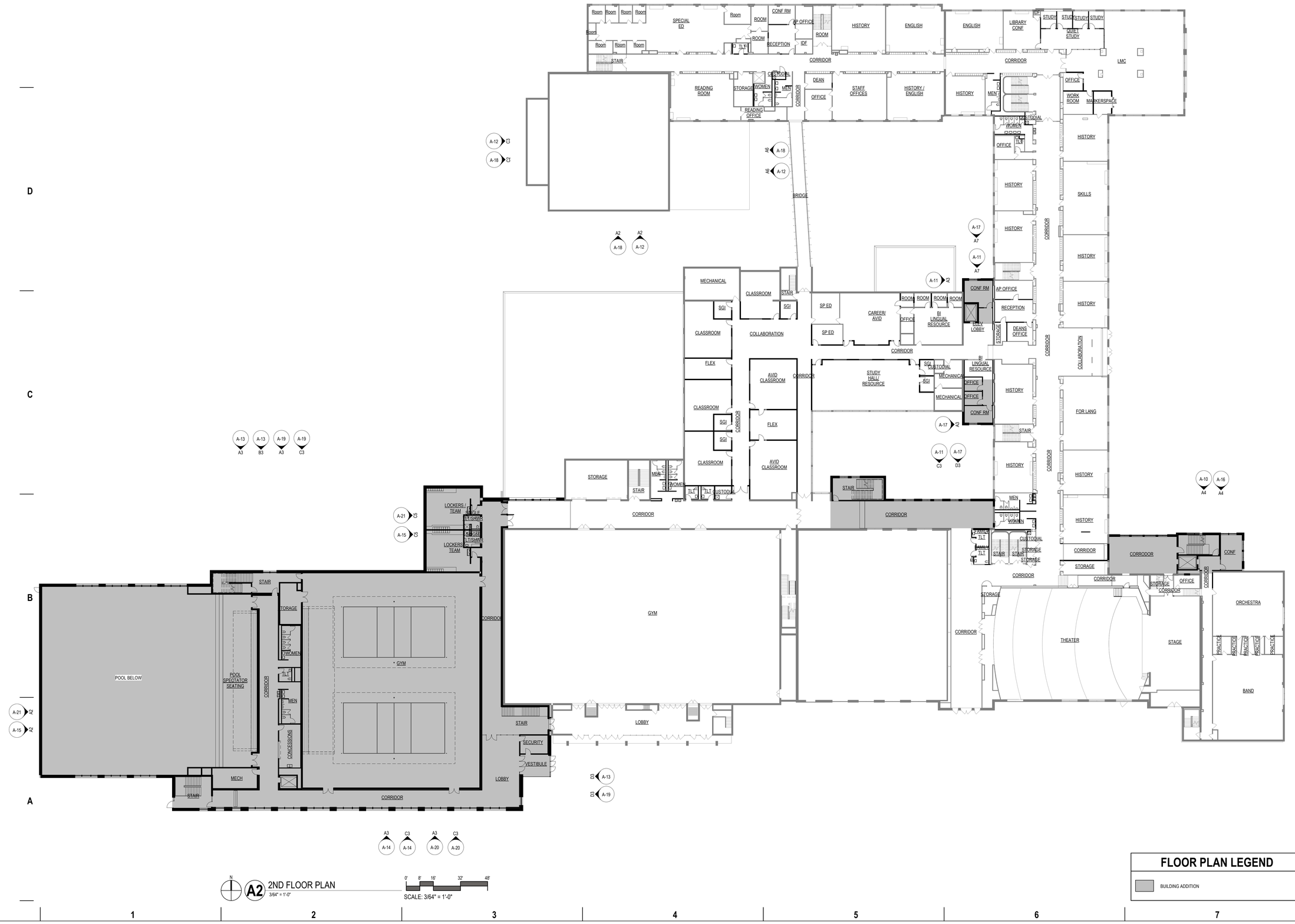
PROJECT MANAGER	JM
PROJECT NUMBER	20535-01

1ST FLOOR PLAN

A-03



N

A2 2ND FLOOR PLAN

3/64" = 1'-0"

0' 8' 16' 32' 48'

SCALE: 3/64" = 1'-0"

FLOOR PLAN LEGEND

BUILDING ADDITION

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PROJECT INFORMATION

MMSD - WEST HS ADDITION AND RENOVATION

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ISSUANCE AND REVISIONS

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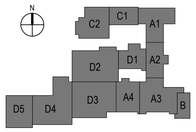
KEY PLAN



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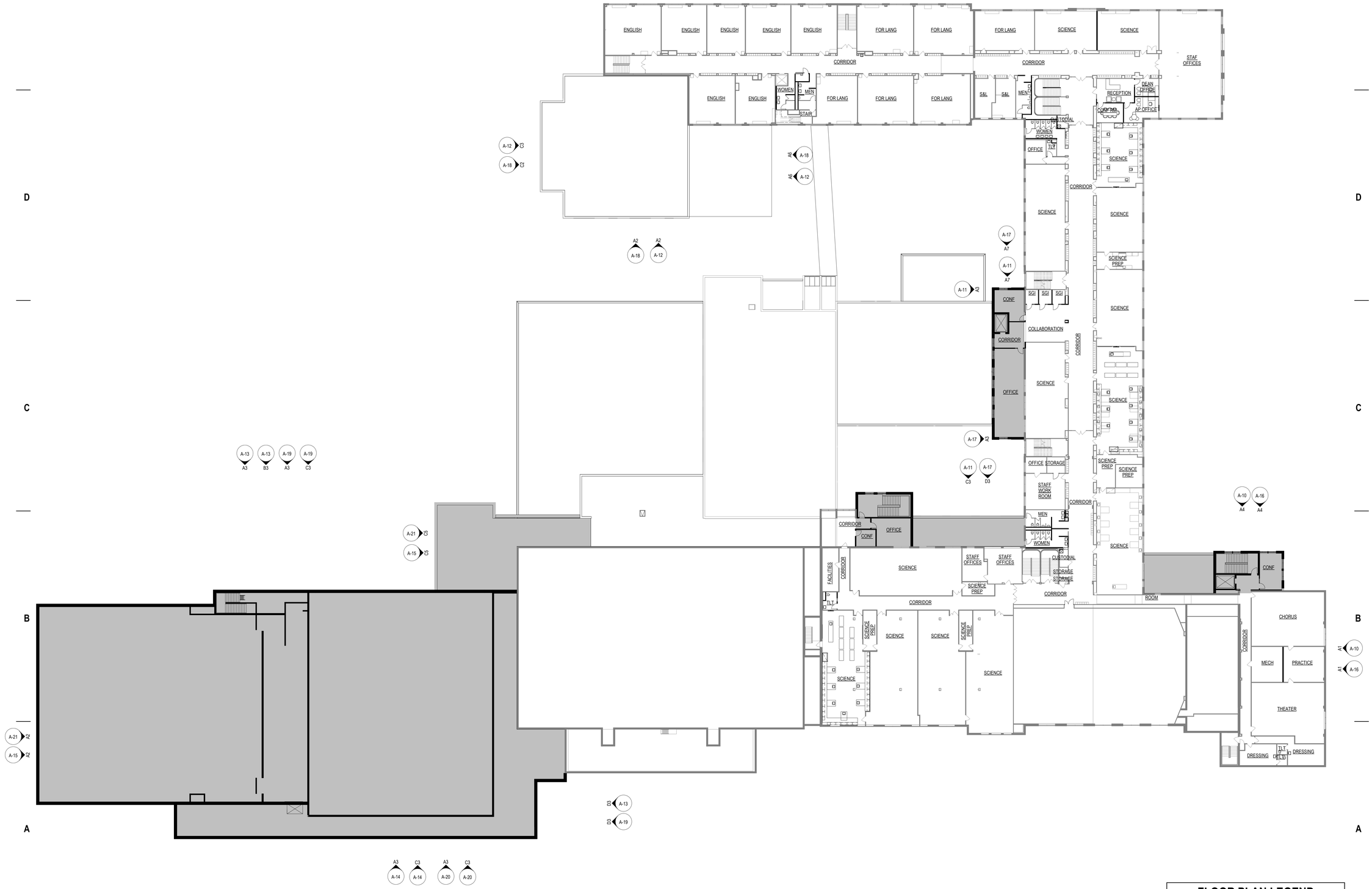
PROJECT MANAGER	JM
PROJECT NUMBER	20535-01

SECOND FLOOR PLAN

A-04



N

A1 3RD FLOOR PLAN

3/64" = 1'-0"

0' 8' 16' 32' 48'

SCALE: 3/64" = 1'-0"

FLOOR PLAN LEGEND

BUILDING ADDITION

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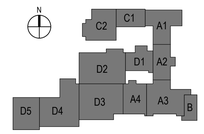

SHEET INFORMATION

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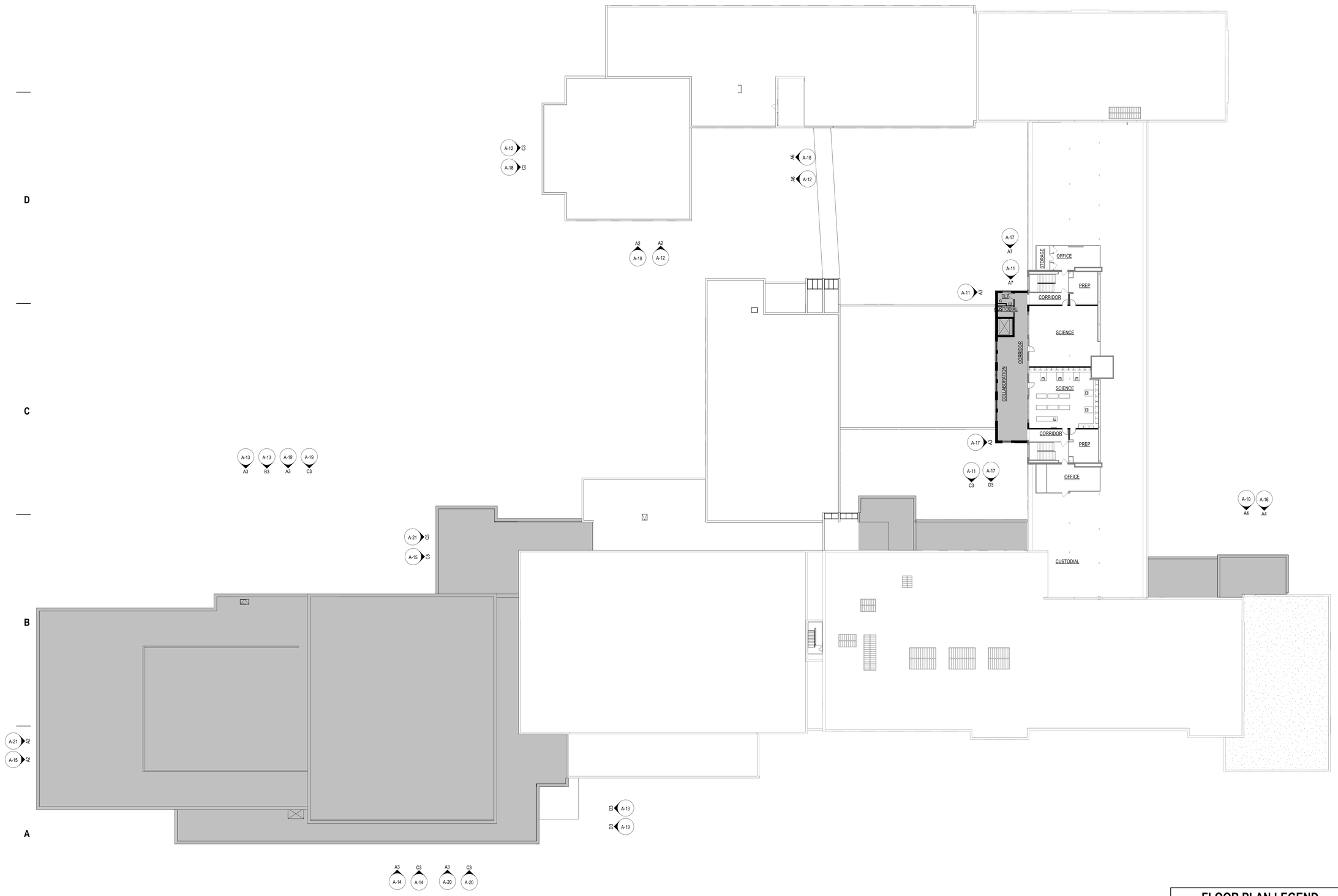
PROJECT MANAGER	JM
PROJECT NUMBER	20535-01

THRID FLOOR PLAN

A-05



N

A1 4TH FLOOR & ROOF PLAN

3/64" = 1'-0"

0' 8' 16' 32' 48'

SCALE: 3/64" = 1'-0"

FLOOR PLAN LEGEND

BUILDING ADDITION

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PROJECT INFORMATION

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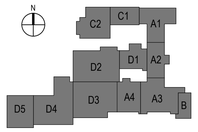

SHEET INFORMATION

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PROJECT MANAGER	JM
PROJECT NUMBER	20535-01

FOURTH FLOOR PLAN

A-06

N

A1 ROOF PLAN

3/64" = 1'-0"

0' 8' 16' 32' 48'

SCALE: 3/64" = 1'-0"

ROOF PLAN LEGEND

NEW MODIFIED ASPHALT BITUMEN ROOF

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PROJECT INFORMATION

MMSD - WEST HS ADDITION AND RENOVATION

30 ASH ST,
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ISSUANCE AND REVISIONS

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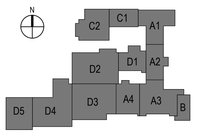
KEY PLAN



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PROJECT MANAGER	JM
PROJECT NUMBER	20535-01

ROOF PLAN

A-07

A1 ENTRY ADDITION EAST - UDC
1/8" = 1'-0"

A4 ENTRY ADDITION - NORTH - UDC
1/8" = 1'-0"

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PROJECT INFORMATION

MMSD - WEST HS ADDITION AND RENOVATION

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ISSUANCE AND REVISIONS

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KEY PLAN

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PROJECT MANAGER JM

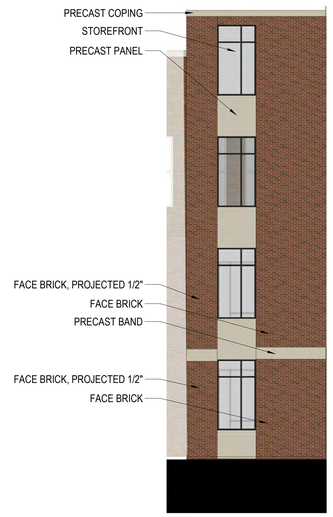
PROJECT NUMBER 20535-01

BUILDING ELEVATIONS

A-10

C3 CIRCULATION ADDITION - NORTH - UDC
1/8" = 1'-0"

A3 ELEVATOR ADDITION - WEST - UDC
1/8" = 1'-0"



A7 ELEVATOR ADDITION - SOUTH - UDC
1/8" = 1'-0"

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PROJECT INFORMATION

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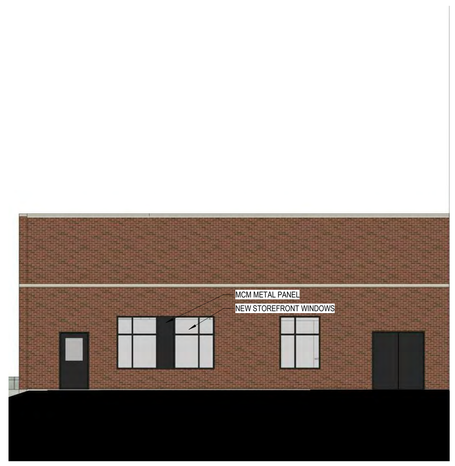
PROJECT MANAGER	JM
PROJECT NUMBER	20535-01

BUILDING ELEVATIONS

A-11

C3 VAN HISE - WEST - UDC
1/8" = 1'-0"

A2 VAN HISE - SOUTH - UDC
1/8" = 1'-0"



A6 VAN HISE - EAST - UDC
1/8" = 1'-0"

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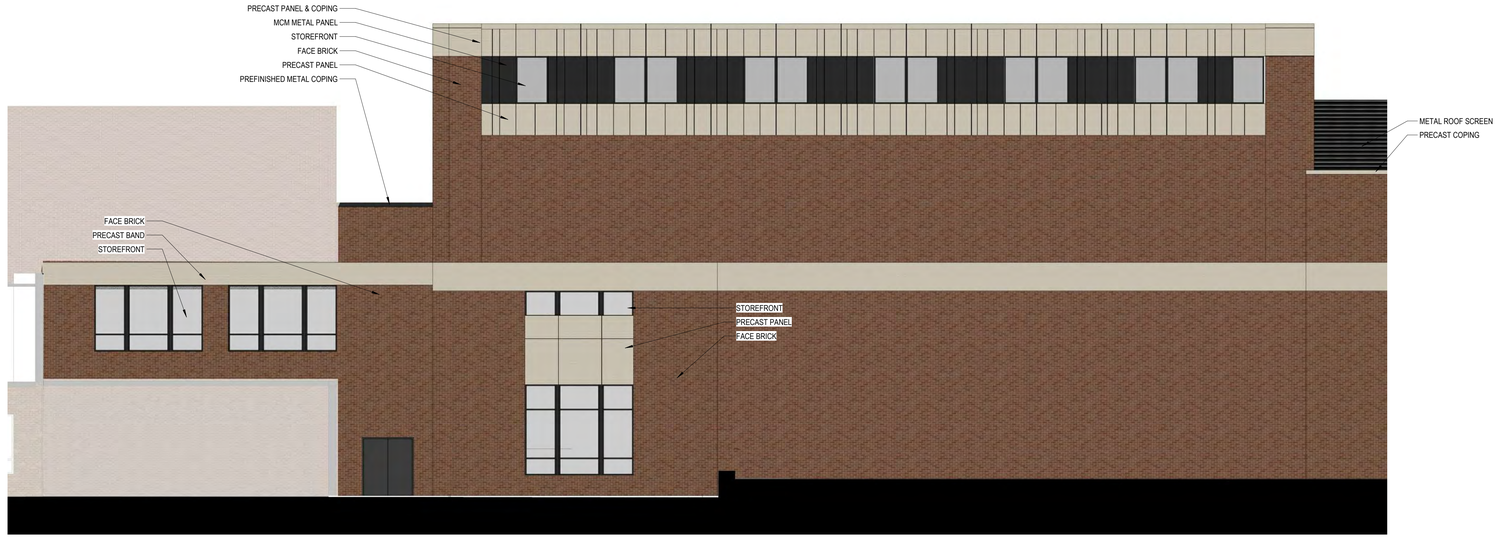
PROJECT MANAGER JM

PROJECT NUMBER 20535-01

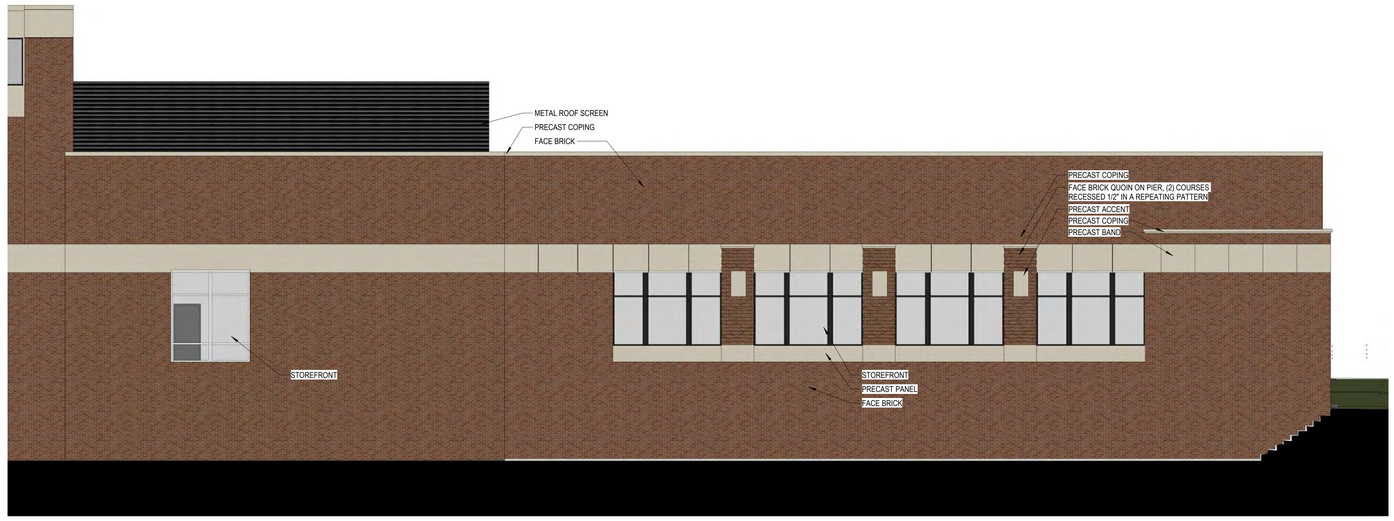
BUILDING ELEVATIONS

A-12

D3 ATHLETICS ADDITION ENTRY - EAST - UDC
1/8" = 1'-0"



B3 ATHELITICS ADDITION - NORTH 2 - UDC
1/8" = 1'-0"



A3 ATHELITICS ADDITION - NORTH 1 - UDC
1/8" = 1'-0"

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PROJECT MANAGER JM

PROJECT NUMBER 20535-01

BUILDING ELEVATIONS

A-13

C3 ATHLETICS ADDITION - SOUTH 2 - UDC
1/8" = 1'-0"

A3 ATHLETICS ADDITION - SOUTH 1 - UDC
1/8" = 1'-0"

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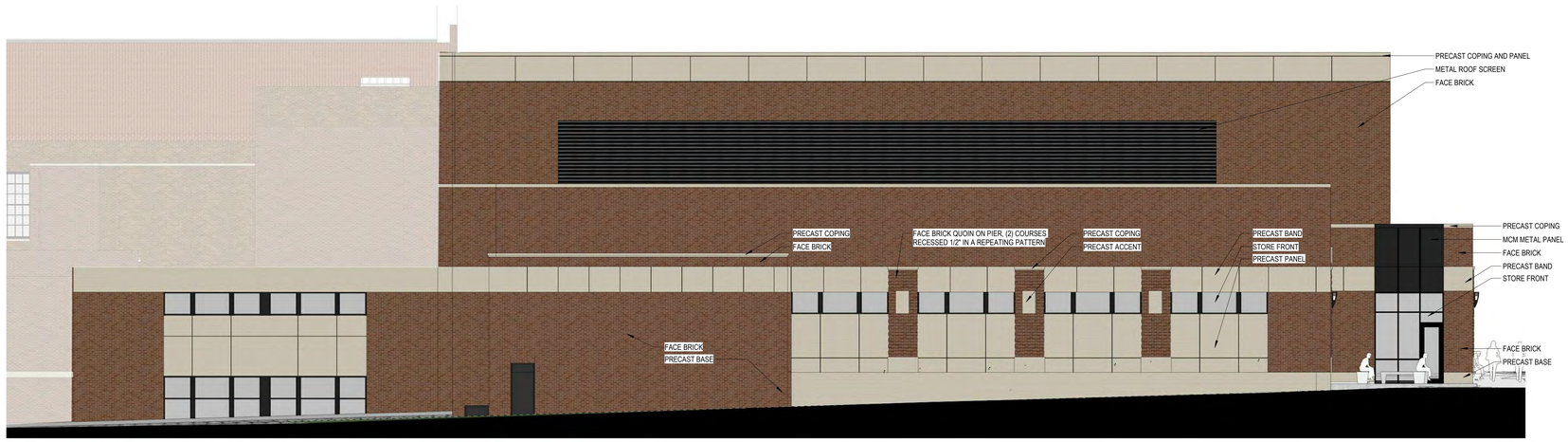
PROJECT MANAGER JM

PROJECT NUMBER 20535-01

BUILDING ELEVATIONS

A-14

C5 ATHLETICS ADDITION - WEST 2 - UDC
1/8" = 1'-0"



A2 ATHLETICS ADDITION - WEST - UDC
1/8" = 1'-0"

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PROJECT MANAGER	JM
PROJECT NUMBER	20535-01

BUILDING ELEVATIONS

A-15

A1 ENTRY ADDITION EAST - UDC B&W
1/8" = 1'-0"

A4 ENTRY ADDITION - NORTH - UDC B&W
1/8" = 1'-0"

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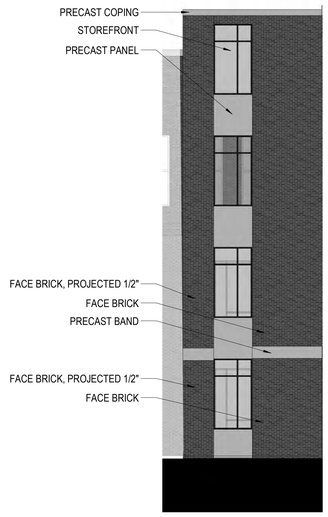
PROJECT MANAGER	JM
PROJECT NUMBER	20535-01

BUILDING ELEVATIONS

A-16

D3 CIRCULATION ADDITION - NORTH - UDC B&W
1/8" = 1'-0"

A3 ELEVATOR ADDITION - WEST - UDC B&W
1/8" = 1'-0"



A7 ELEVATOR ADDITION - SOUTH - UDC B&W
1/8" = 1'-0"

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303.595.4500

PROJECT INFORMATION

MMSD - WEST HS ADDITION AND RENOVATION

30 ASH ST,
MADISON, WI 53726

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
06/01/2021	INITIAL UDC AND PLAN COMMISSION

KEY PLAN

SHEET INFORMATION

PROGRESS DOCUMENTS NOT FOR CONSTRUCTION

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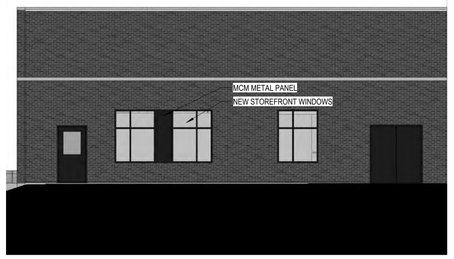
PROJECT MANAGER	JM
PROJECT NUMBER	20535-01

BUILDING ELEVATIONS

A-17

C2 VAN HISE - WEST - UDC B&W
1/8" = 1'-0"

A2 VAN HISE - SOUTH - UDC B&W
1/8" = 1'-0"



A6 VAN HISE - EAST - UDC B&W
1/8" = 1'-0"

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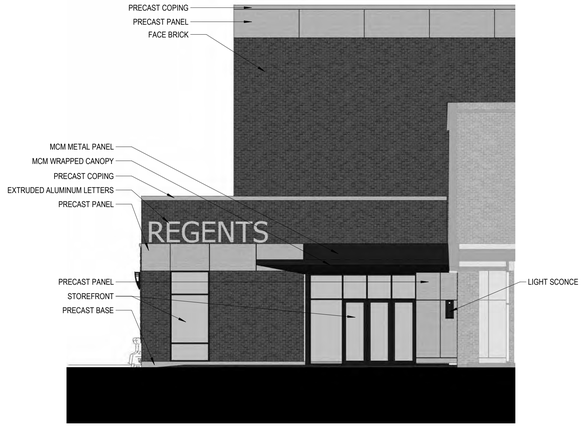
PROJECT MANAGER JM

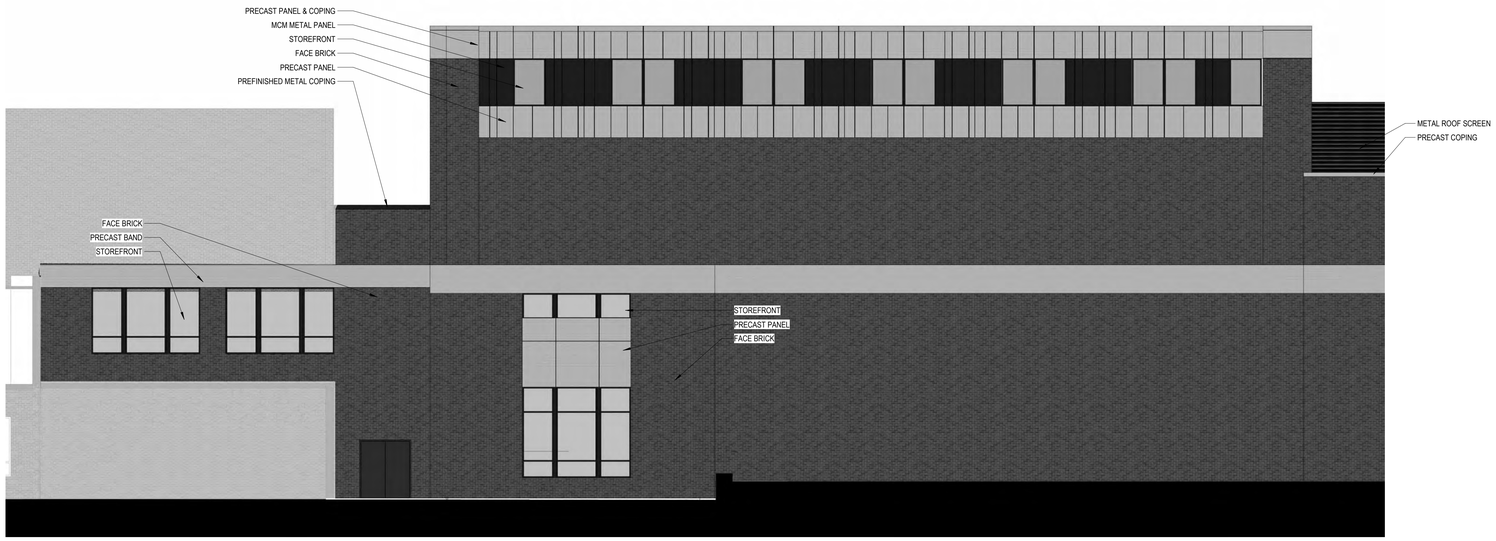
PROJECT NUMBER 20535-01

BUILDING ELEVATIONS

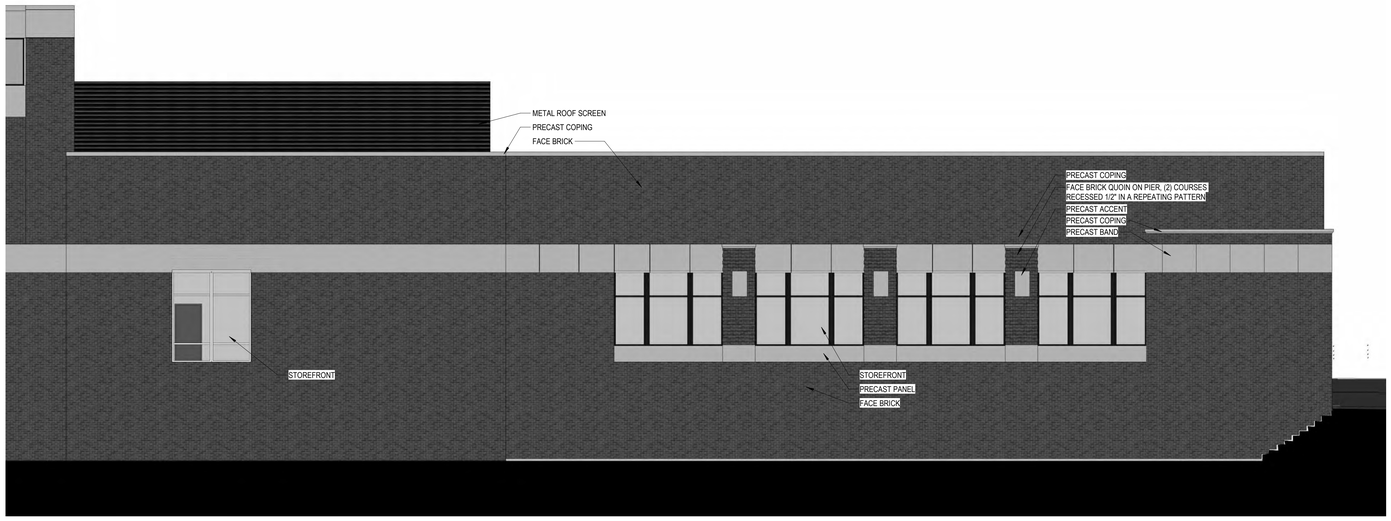
A-18



D3 ATHLETICS ADDITION ENTRY - EAST - UDC B&W
1/8" = 1'-0"



C3 ATHELITICS ADDITION - NORTH 2 - UDC B&W
1/8" = 1'-0"



A3 ATHELITICS ADDITION - NORTH 1 - UDC B&W
1/8" = 1'-0"

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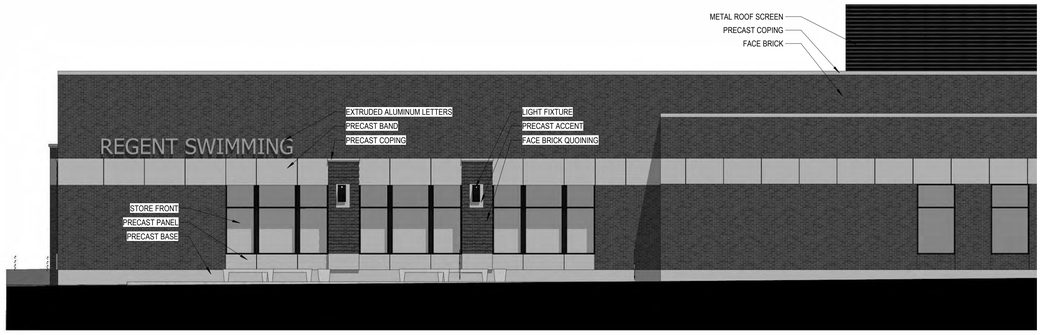
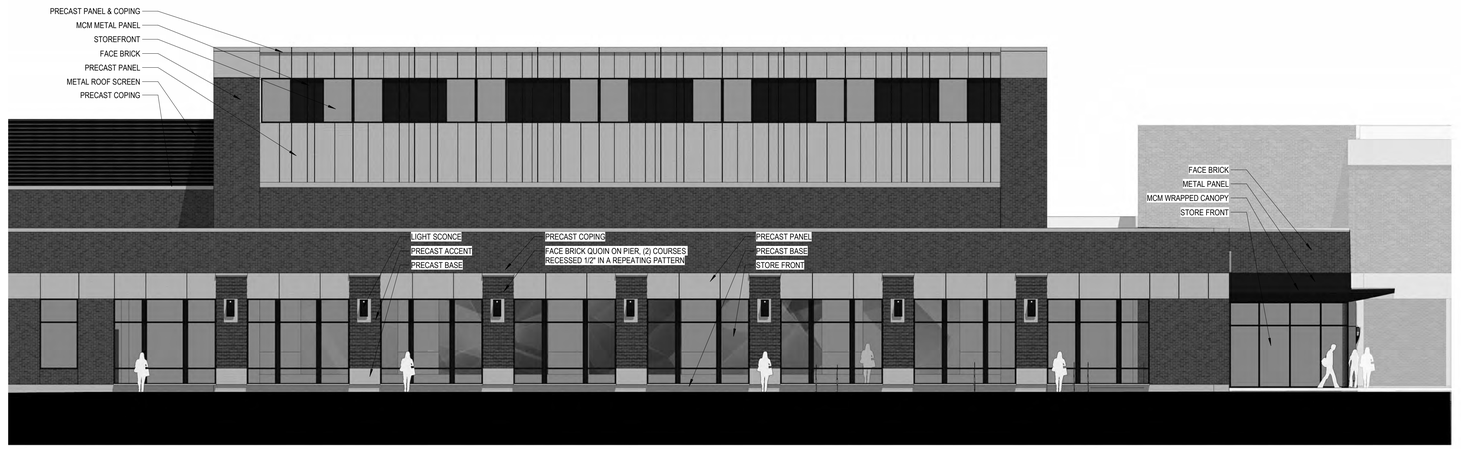
PROJECT MANAGER	JM
PROJECT NUMBER	20535-01

BUILDING ELEVATIONS

A-19



C3 ATHLETICS ADDITION - SOUTH 2 - UDC B&W
1/8" = 1'-0"



A3 ATHLETICS ADDITION - SOUTH 1 - UDC B&W
1/8" = 1'-0"

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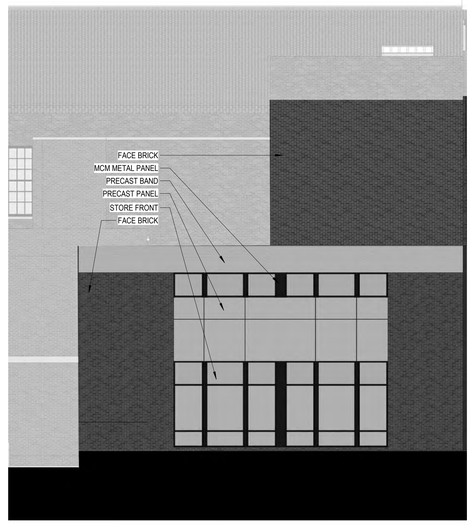
PROJECT MANAGER JM

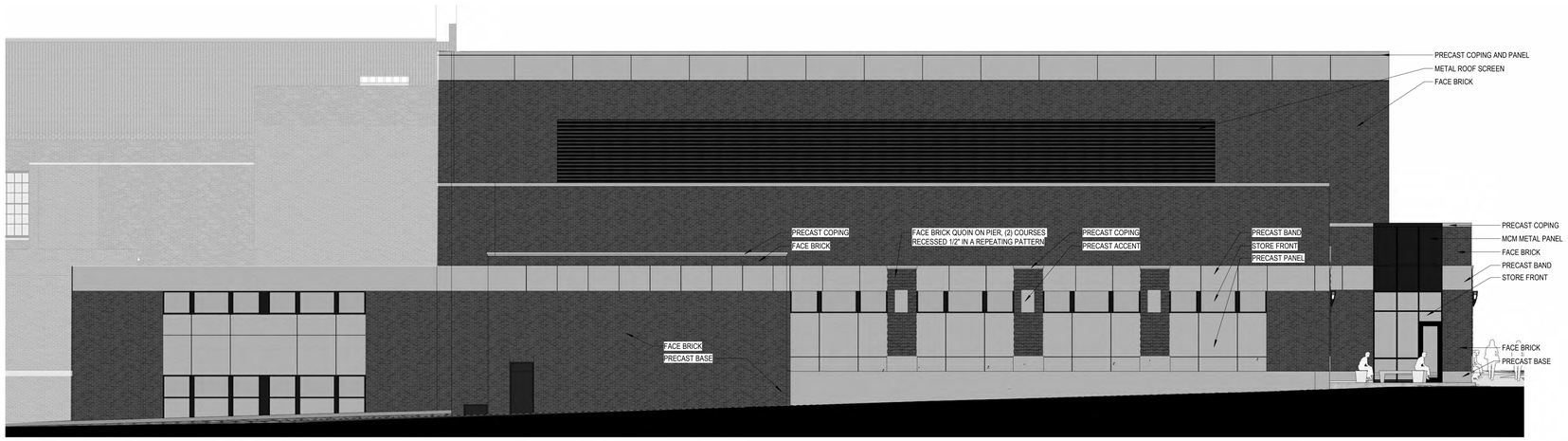
PROJECT NUMBER 20535-01

BUILDING ELEVATIONS

A-20



C5 ATHLETICS ADDITION - WEST 2 - UDC B&W
1/8" = 1'-0"



A2 ATHLETICS ADDITION - WEST - UDC B&W
1/8" = 1'-0"

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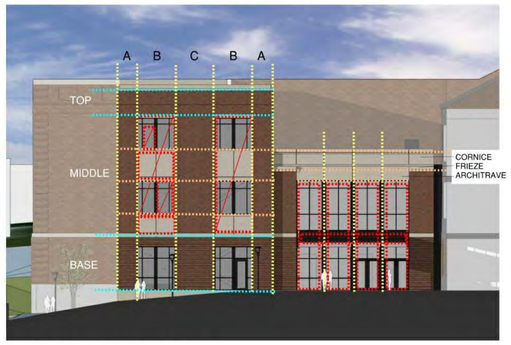
PROJECT MANAGER	JM
PROJECT NUMBER	20535-01

BUILDING ELEVATIONS

A-21

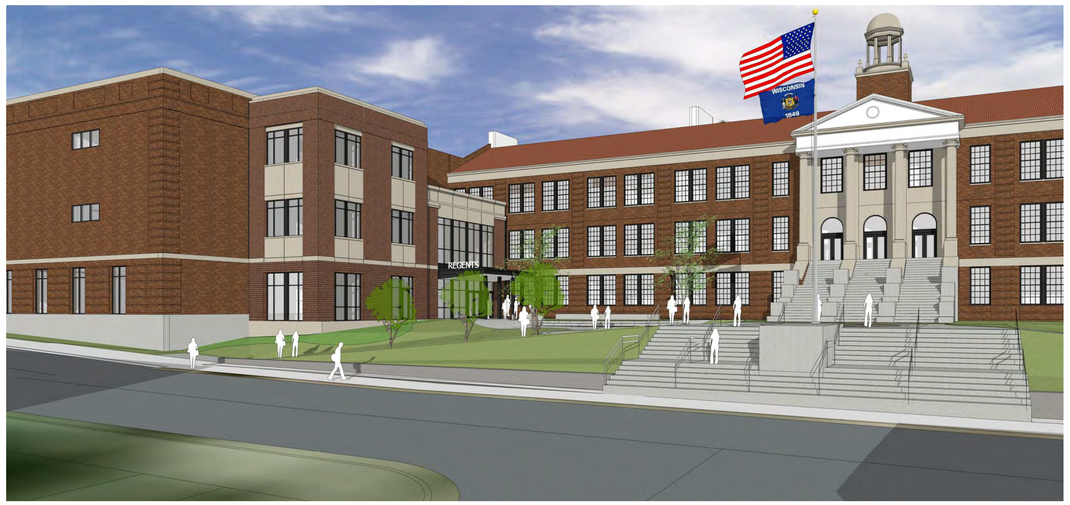


PROPOSED ENTRY ELEVATION

ASH STREET ELEVATION

DESIGN PRECEDENT FOR ADDITIONS

AERIAL VIEW OF ASH STREET ELEVATIION



VIEW OF WELCOME CENTER

ASH STREET LOOKING SOUTH

AERIAL VIEW OF ASH STREET

ASH STREET VIEW

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PROJECT INFORMATION

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PROJECT MANAGER JM

PROJECT NUMBER 20535-01

PERSPECTIVES

A-22

AERIAL VIEW OF ATHLETIC ADDITION

REGENT STREET LOOKING WEST

VIEW OF ATHLETIC ENTRY FROM REGENT STREET

VIEW OF ATHLETIC ENTRY FROM REGENT STREET

SPEEDWAY VIEW LOOKING EAST

AERIAL VIEW AT VAN HISE AND HIGHLAND

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PROJECT MANAGER JM

PROJECT NUMBER 20535-01

PERSPECTIVES

A-23

WELCOME CENTER

EXISTING BRICK AT WELCOME CENTER

MATERIALS FOR WELCOME CENTER ADDITION

GLASS FOR ALL NEW ADDITIONS SOLARBAN 70VT OPTIGRAY

CORRUGATED MECHANICAL ROOF SCREEN COLOR WILL MATCH MEDIUM BRONZE WINDOW FRAMES

WALL SCONCE AT ATHLETIC ADDITION COLOR WILL MATCH BRONZE WINDOW FRAMES

ATHLETIC ADDITION

EXISTING BRICK AT GYM

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PROJECT MANAGER JM

PROJECT NUMBER 20535-01

PERSPECTIVES

A-24

EXTERIOR LIGHTING STATISTICS

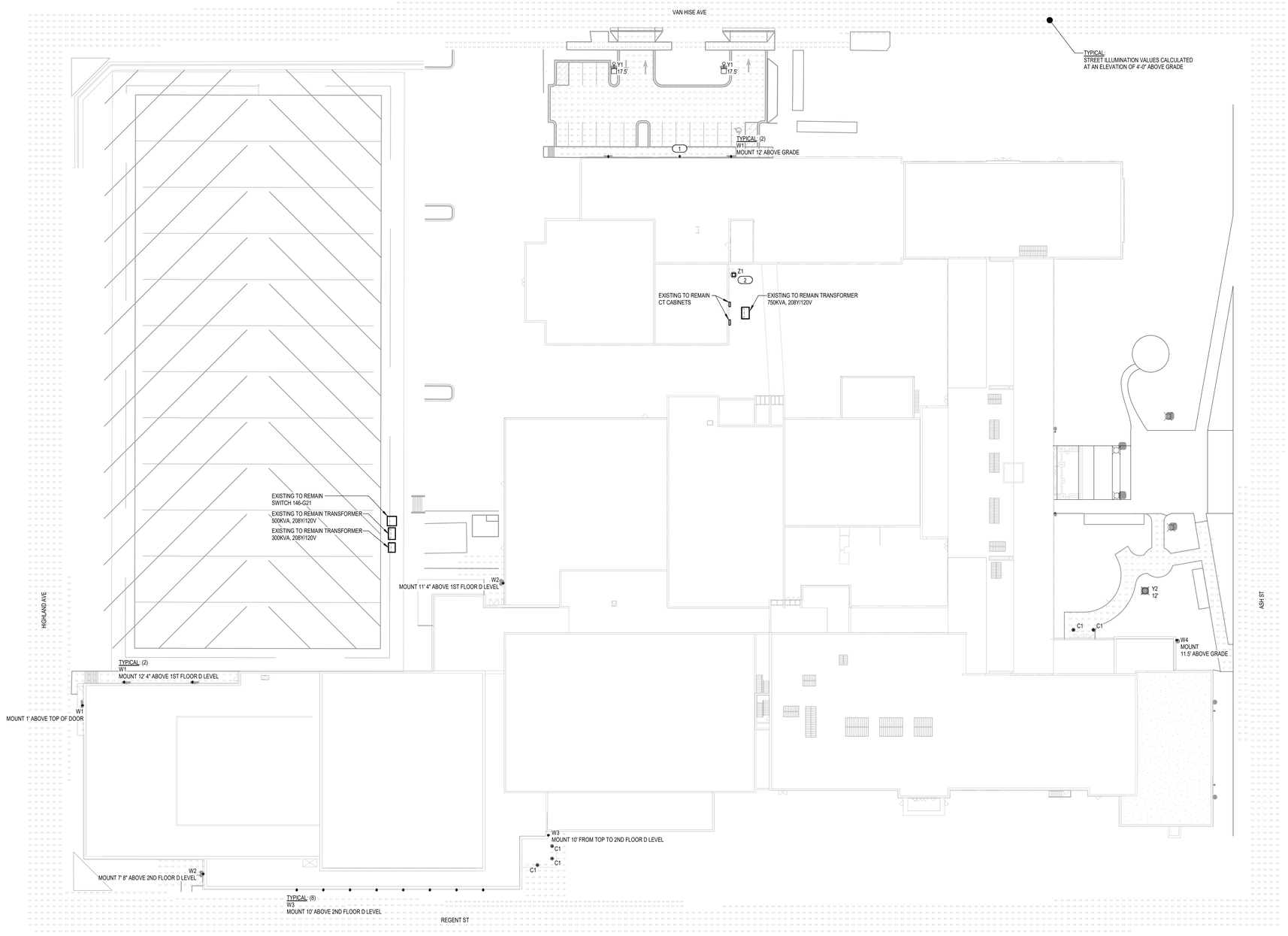
LOCATION	AVERAGE	AVE / MIN	MAX	MIN
NORTH PARKING LOT	1.4	4.7 : 1	3.5	0.3
EAST WALKWAY	1.5	5.0 : 1	4.7	0.3

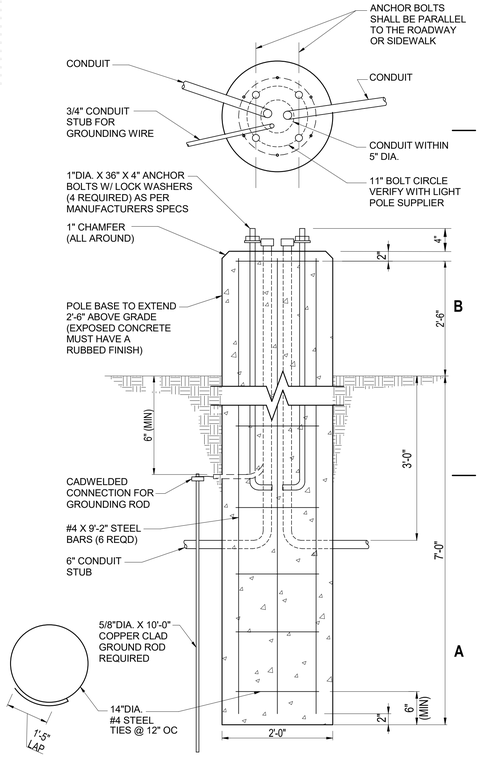
LIGHT FIXTURE SCHEDULE

TYPE	DISCRIPTION	LAMP	LUMENS	WATTS	VOLT	CCT	MANUFACTURER	SERIES
C1	6" RECESSED DOWNLIGHT, 4000K, 1000 LUMENS, WIDE DISTRUBUTION, SEMI SPECULAR FINISH, WET LOCATION LISTED.	LED	1000	11 W	MVOLT	4000 K	LITHONIA	LDN6
W1	EXTERIOR LED WALL MOUNTED LIGHT FIXTURE, 10 LEDS, 700 mA DRIVE CURRENT, TYPE T2M DISTRIBUTION, BRONZE FINISH.	LED	2684	26 W	MVOLT	4000 K	LITHONIA	DSXW1
W2	EXTERIOR LED WALL MOUNTED LIGHT FIXTURE, 10 LEDS, 700 mA DRIVE CURRENT, TYPE TFTM DISTRIBUTION, BRONZE FINISH.	LED	2808	26 W	MVOLT	4000 K	LITHONIA	DSXW1
W3	EXTERIOR WALL MOUNT SCONCE, 0-10V DIMMING TO 1%, WET LOCATION LISTED, BRONZE FINISH.	LED	1200	28 W	MVOLT	4000 K	CYPRESS	OW1202
W4	EXTERIOR LED WALL MOUNTED LIGHT FIXTURE, 720 mA DRIVE CURRENT, INTEGRAL PHOTOCELL, BRONZE FINISH.	LED	3484	26 W	MVOLT	5000 K	RAB	WPLED26/PC
Y1	EXTERIOR LED POLE MOUNTED LIGHT FIXTURE, P2 FORWARD OPTICS, TYPE T3M DISTRIBUTION, HOUSE SIDE SHIELD, BRONZE FINISH.	LED	8901	70 W	MVOLT	4000 K	LITHONIA	DSX1
Y2	EXTERIOR LED POST POP TOP MOUNTED LIGHT FIXTURE, VS3AR LENS, TYPE 5 DISTRIBUTION, 4000K, BLACK FINISH.	LED	4561	34 W	MVOLT	4000 K	CYCLONE	PRESTIGE-CY11T4B
Z1	EXTERIOR LED SURFACE MOUNTED CANOPY LIGHT, 4000K, 70 CRI, CLEAR PRISMATIC LENS, 0-10V DIMMING, WHITE FINISH.	LED	4839	36 W	MVOLT	4000 K	LUMARK	CLCSLED

KEYED NOTES

1. DEMOLISH EXISTING EXTERIOR WALL MOUNTED FIXTURE.
2. DEMOLISH EXISTING CANOPY LIGHT AND INSTALL NEW TYPE "Z1" LIGHT FIXTURE.





1 **ELECTRICAL SITE PLAN**
1" = 30'-0"

NORTH

2 **EXTENDED POLE BASE DETAIL**
NOT TO SCALE

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PROJECT INFORMATION

MMSD - WEST HIGH SCHOOL

30 ASH ST.
MADISON, WI 53726

MEP
MAHLUM | MEHREN | COMMING
EXPECT A DIFFERENCE
1111 Deming Way, Suite 202 | Madison, WI 53717
P: 608.845.9556 | mepassociates.com | salasobrien.com

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PROJECT MANAGER	PCC
PROJECT NUMBER	20535-01

ELECTRICAL SITE PLAN

E010

D-Series Size 1
LED Area Luminaire

Buy American

Catalog Number

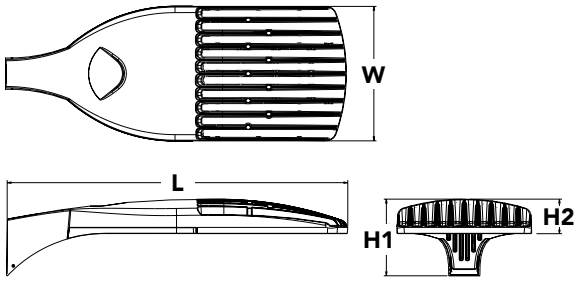
Notes

Type

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

Specifications

EPA:	1.01 ft² (0.09 m²)
Length:	33" (83.8 cm)
Width:	13" (33.0 cm)
Height H1:	7-1/2" (19.0 cm)
Height H2:	3-1/2"
Weight (max):	27 lbs (12.2 kg)



Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED

Series

DSX1 LED

LEDs

Forward optics

P1, P2, P3, P4 [1], P5 [1], P6 [1], P7 [1], P8, P9 [1]

Rotated optics

P10 [2], P11 [2], P12 [2], P13 [1,2]

Color temperature

30K	3000 K
40K	4000 K
50K	5000 K

Distribution

T1S	Type I short (Automotive)
T2S	Type II short
T2M	Type II medium
T3S	Type III short
T3M	Type III medium
T4M	Type IV medium
TFTM	Forward throw medium
T5VS	Type V very short [3]
T5S	Type V short [3]
T5M	Type V medium [3]
T5W	Type V wide [3]
BLC	Backlight control [4]
LCCO	Left corner cutoff [4]
RCCO	Right corner cutoff [4]

Voltage

MVOLT [5]
XVOLT (277V-480V) [6,7,8]
120 [9]
208 [9]
240 [9]
277 [9]
347 [9]
480 [9]

Mounting

Shipped included

SPA	Square pole mounting
RPA	Round pole mounting [10]
WBA	Wall bracket [3]
SPUMBA	Square pole universal mounting adaptor [11]
RPUMBA	Round pole universal mounting adaptor [9]

Shipped separately

KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) [12]

Control options

Shipped installed

NLTAIR2	nLight AIR generation 2 enabled [13]
PIRHN	Network, high/low motion/ambient sensor [14]
PER	NEMA twist-lock receptacle only (controls ordered separate) [15]
PER5	Five-pin receptacle only (controls ordered separate) [15,16]
PER7	Seven-pin receptacle only (controls ordered separate) [15,16]
DMG	0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) [17]
DS	Dual switching [18,19,20]
PIR	High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc [20,21]
PIRH	High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc [20,21]
PIR1FC3V	High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc [20,21]
PIRH1FC3V	Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc [20,21]
FAO	Field adjustable output [20,21]

Other options

Shipped installed

HS	House-side shield [23]
SF	Single fuse (120, 277, 347V) [9]
DF	Double fuse (208, 240, 480V) [9]
L90	Left rotated optics [2]
R90	Right rotated optics [2]
HA	50°C ambient operations [1]
BAA	Buy America(n) Act Compliant

Shipped separately

BS	Bird spikes [24]
EGS	External glare shield

Finish *(required)*

DDBXD	Dark bronze
DBLXD	Black
DNAXD	Natural aluminum
DWHXD	White
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white

Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [25]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [25]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [25]
DSHORT SBK U	Shorting cap [25]
DSX1HS 30C U	House-side shield for P1, P2, P3, P4 and P5 [23]
DSX1HS 40C U	House-side shield for P6 and P7 [23]
DSX1HS 60C U	House-side shield for P8, P9, P10, P11 and P12 [23]
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish) [26]
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) [12]
DSX1EGS (FINISH) U	External glare shield

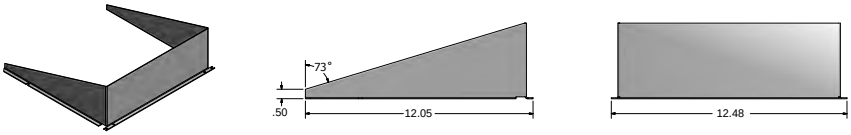
For more control options, visit DTL and ROAM online.

NOTES

1 HA not available with P4, P5, P6, P7, P9 and P13.
2 P10, P11, P12 or P13 and rotated optics (L90, R90) only available together.
3 Any Type 5 distribution with photocell, is not available with WBA.
4 Not available with HS.
5 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
6 XVOLT only suitable for use with P3, P5, P6, P7, P9 and P13.
7 XVOLT works with any voltage between 277V and 480V.
8 XVOLT not available with fusing (SF or DF) and not available with PIR, PIRH, PIR1FC3V, PIRH1FC3V.
9 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF.
10 Suitable for mounting to round poles between 3.5" and 12" diameter.
11 Universal mounting brackets intended for retrofit on existing, pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31. Only usable when pole's drill pattern is NOT Lithonia template #8
12 Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" diameter mast arm (not included).
13 Must be ordered with PIRHN. Sensor cover available only in dark bronze, black, white and natural aluminum colors.
14 Must be ordered with NLTAIR2. For more information on nLight Air 2 visit this link.
15 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting cap included.
16 If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming.
17 DMG not available with PIRHN, PER5, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V, FAO.
18 Provides 50/50fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH. Not available P1, P2, P3, P4 or P5.
19 Requires (2) separately switched circuits with isolated neutrol.
20 Reference Controls Option Default settings table on page 4.
21 Reference Motion Sensor table on page 4 to see functionality.
22 Not available with other dimming controls options.
23 Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
24 Must be ordered with fixture for factory pre-drilling.
25 Requires luminaire to be specified with PER, PER5 or PER7 option. See Control Option Table on page 4.
26 For retrofit use only. Only usable when pole's drill pattern is NOT Lithonia template #8.

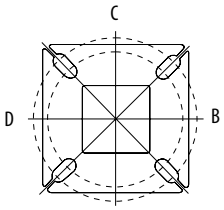
Options

EGS - External Glare Shield

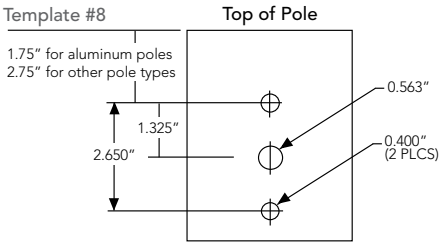


Drilling

HANDHOLE ORIENTATION



Template #8



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS

DSX1 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

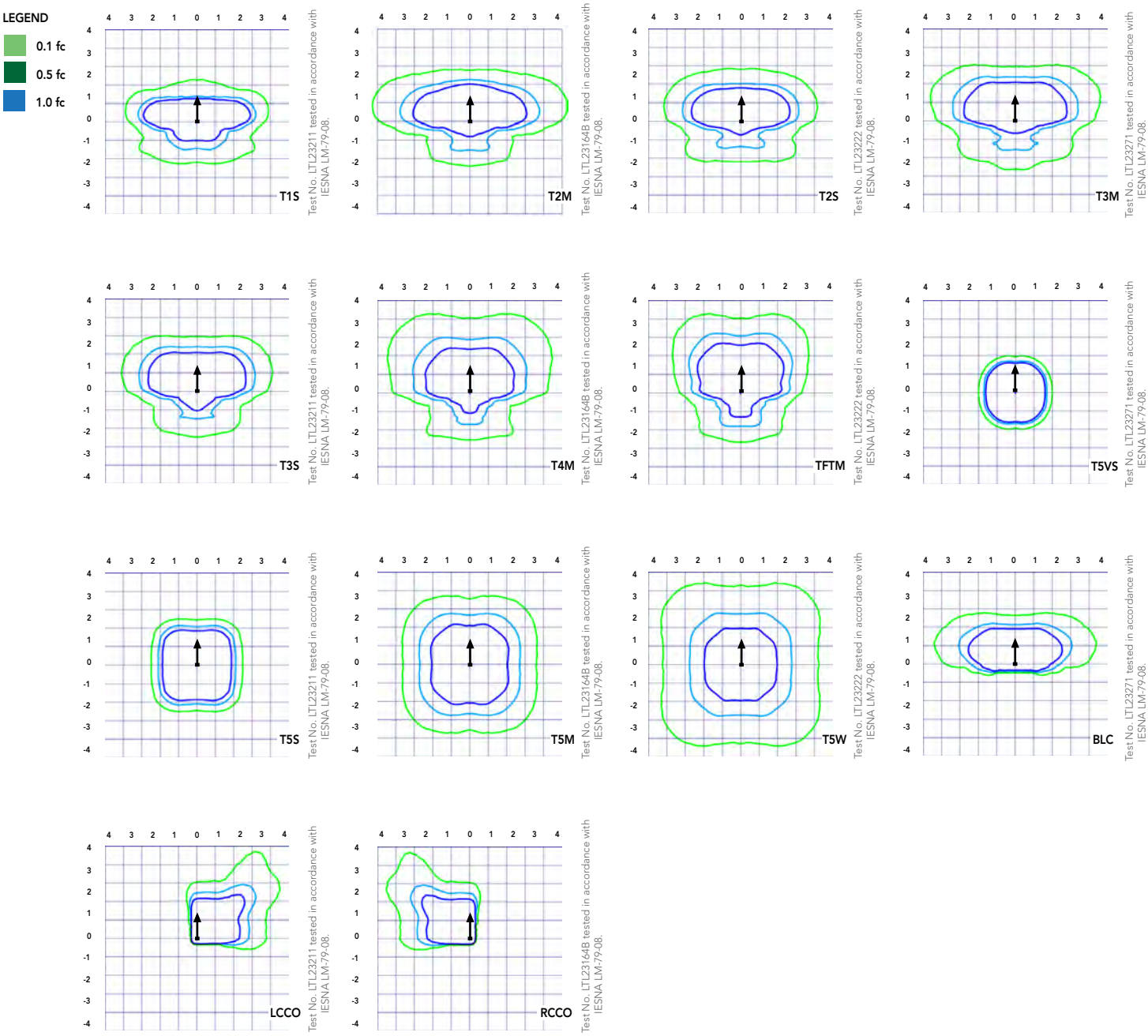
Fixture Quantity & Mounting Con⊠guration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 LED	1.013	2.025	1.945	3.038	2.850	3.749

	Drilling Template	Minimum Acceptable Outside Pole Dimension					
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"	3.5"	4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 1 homepage.

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (25').



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	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	50°F	1.02
20°C	68°F	1.01
25°C	**77°F**	**1.00**
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted 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	Lumen Maintenance Factor
0	1.00
25,000	0.96
50,000	0.92
100,000	0.85

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 when motion sensor is used as dusk to dawn control.						

Electrical Load

	Performance Package	LED Count	Drive Current	Wattage	Current (A) 120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	30	530	54	0.45	0.26	0.23	0.19	0.10	0.12
	P2	30	700	70	0.59	0.34	0.30	0.25	0.20	0.16
	P3	30	1050	102	0.86	0.50	0.44	0.38	0.30	0.22
	P4	30	1250	125	1.06	0.60	0.52	0.46	0.37	0.27
	P5	30	1400	138	1.16	0.67	0.58	0.51	0.40	0.29
	P6	40	1250	163	1.36	0.78	0.68	0.59	0.47	0.34
	P7	40	1400	183	1.53	0.88	0.76	0.66	0.53	0.38
	P8	60	1050	207	1.74	0.98	0.87	0.76	0.64	0.49
	P9	60	1250	241	2.01	1.16	1.01	0.89	0.70	0.51
Rotated Optics (Requires L90 or R90)	P10	60	530	106	0.90	0.52	0.47	0.43	0.33	0.27
	P11	60	700	137	1.15	0.67	0.60	0.53	0.42	0.32
	P12	60	1050	207	1.74	0.99	0.87	0.76	0.60	0.46
	P13	60	1250	231	1.93	1.12	0.97	0.86	0.67	0.49

Controls Options				
Nomenclature	**Description**	**Functionality**	**Primary control device**	**Notes**
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PER5 or PER7	Twist-lock photocell recepticle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBGR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclypse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
30	530	**P1**	54W	T1S	6,457	2	0	2	120	6,956	2	0	2	129	7,044	2	0	2	130
				T2S	6,450	2	0	2	119	6,949	2	0	2	129	7,037	2	0	2	130
				T2M	6,483	1	0	1	120	6,984	2	0	2	129	7,073	2	0	2	131
				T3S	6,279	2	0	2	116	6,764	2	0	2	125	6,850	2	0	2	127
				T3M	6,468	1	0	2	120	6,967	1	0	2	129	7,056	1	0	2	131
				T4M	6,327	1	0	2	117	6,816	1	0	2	126	6,902	1	0	2	128
				TFTM	6,464	1	0	2	120	6,963	1	0	2	129	7,051	1	0	2	131
				T5VS	6,722	2	0	0	124	7,242	3	0	0	134	7,334	3	0	0	136
				T5S	6,728	2	0	1	125	7,248	2	0	1	134	7,340	2	0	1	136
				T5M	6,711	3	0	1	124	7,229	3	0	1	134	7,321	3	0	2	136
				T5W	6,667	3	0	2	123	7,182	3	0	2	133	7,273	3	0	2	135
				BLC	5,299	1	0	1	98	5,709	1	0	2	106	5,781	1	0	2	107
				LCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
				RCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
30	700	**P2**	70W	T1S	8,249	2	0	2	118	8,886	2	0	2	127	8,999	2	0	2	129
				T2S	8,240	2	0	2	118	8,877	2	0	2	127	8,989	2	0	2	128
				T2M	8,283	2	0	2	118	8,923	2	0	2	127	9,036	2	0	2	129
				T3S	8,021	2	0	2	115	8,641	2	0	2	123	8,751	2	0	2	125
				T3M	8,263	2	0	2	118	8,901	2	0	2	127	9,014	2	0	2	129
				T4M	8,083	2	0	2	115	8,708	2	0	2	124	8,818	2	0	2	126
				TFTM	8,257	2	0	2	118	8,896	2	0	2	127	9,008	2	0	2	129
				T5VS	8,588	3	0	0	123	9,252	3	0	0	132	9,369	3	0	0	134
				T5S	8,595	3	0	1	123	9,259	3	0	1	132	9,376	3	0	1	134
				T5M	8,573	3	0	2	122	9,236	3	0	2	132	9,353	3	0	2	134
				T5W	8,517	3	0	2	122	9,175	4	0	2	131	9,291	4	0	2	133
				BLC	6,770	1	0	2	97	7,293	1	0	2	104	7,386	1	0	2	106
				LCCO	5,038	1	0	2	72	5,427	1	0	2	78	5,496	1	0	2	79
				RCCO	5,038	1	0	2	72	5,427	1	0	2	78	5,496	1	0	2	79
30	1050	**P3**	102W	T1S	11,661	2	0	2	114	12,562	3	0	3	123	12,721	3	0	3	125
				T2S	11,648	2	0	2	114	12,548	3	0	3	123	12,707	3	0	3	125
				T2M	11,708	2	0	2	115	12,613	2	0	2	124	12,773	2	0	2	125
				T3S	11,339	2	0	2	111	12,215	3	0	3	120	12,370	3	0	3	121
				T3M	11,680	2	0	2	115	12,582	2	0	2	123	12,742	2	0	2	125
				T4M	11,426	2	0	3	112	12,309	2	0	3	121	12,465	2	0	3	122
				TFTM	11,673	2	0	2	114	12,575	2	0	3	123	12,734	2	0	3	125
				T5VS	12,140	3	0	1	119	13,078	3	0	1	128	13,244	3	0	1	130
				T5S	12,150	3	0	1	119	13,089	3	0	1	128	13,254	3	0	1	130
				T5M	12,119	4	0	2	119	13,056	4	0	2	128	13,221	4	0	2	130
				T5W	12,040	4	0	3	118	12,970	4	0	3	127	13,134	4	0	3	129
				BLC	9,570	1	0	2	94	10,310	1	0	2	101	10,440	1	0	2	102
				LCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
				RCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
30	1250	**P4**	125W	T1S	13,435	3	0	3	107	14,473	3	0	3	116	14,657	3	0	3	117
				T2S	13,421	3	0	3	107	14,458	3	0	3	116	14,641	3	0	3	117
				T2M	13,490	2	0	2	108	14,532	3	0	3	116	14,716	3	0	3	118
				T3S	13,064	3	0	3	105	14,074	3	0	3	113	14,252	3	0	3	114
				T3M	13,457	2	0	2	108	14,497	2	0	2	116	14,681	2	0	2	117
				T4M	13,165	2	0	3	105	14,182	2	0	3	113	14,362	2	0	3	115
				TFTM	13,449	2	0	3	108	14,488	2	0	3	116	14,672	2	0	3	117
				T5VS	13,987	4	0	1	112	15,068	4	0	1	121	15,259	4	0	1	122
				T5S	13,999	3	0	1	112	15,080	3	0	1	121	15,271	3	0	1	122
				T5M	13,963	4	0	2	112	15,042	4	0	2	120	15,233	4	0	2	122
				T5W	13,872	4	0	3	111	14,944	4	0	3	120	15,133	4	0	3	121
				BLC	11,027	1	0	2	88	11,879	1	0	2	95	12,029	1	0	2	96
				LCCO	8,205	1	0	3	66	8,839	1	0	3	71	8,951	1	0	3	72
				RCCO	8,205	1	0	3	66	8,839	1	0	3	71	8,951	1	0	3	72
30	1400	**P5**	138W	T1S	14,679	3	0	3	106	15,814	3	0	3	115	16,014	3	0	3	116
				T2S	14,664	3	0	3	106	15,797	3	0	3	114	15,997	3	0	3	116
				T2M	14,739	3	0	3	107	15,878	3	0	3	115	16,079	3	0	3	117
				T3S	14,274	3	0	3	103	15,377	3	0	3	111	15,572	3	0	3	113
				T3M	14,704	2	0	3	107	15,840	3	0	3	115	16,040	3	0	3	116
				T4M	14,384	2	0	3	104	15,496	3	0	3	112	15,692	3	0	3	114
				TFTM	14,695	2	0	3	106	15,830	3	0	3	115	16,030	3	0	3	116
				T5VS	15,283	4	0	1	111	16,464	4	0	1	119	16,672	4	0	1	121
				T5S	15,295	3	0	1	111	16,477	4	0	1	119	16,686	4	0	1	121
				T5M	15,257	4	0	2	111	16,435	4	0	2	119	16,644	4	0	2	121
				T5W	15,157	4	0	3	110	16,328	4	0	3	118	16,534	4	0	3	120
				BLC	12,048	1	0	2	87	12,979	1	0	2	94	13,143	1	0	2	95
				LCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71
				RCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
40	1250	**P6**	163W	T1S	17,654	3	0	3	108	19,018	3	0	3	117	19,259	3	0	3	118
				T2S	17,635	3	0	3	108	18,998	3	0	3	117	19,238	3	0	3	118
				T2M	17,726	3	0	3	109	19,096	3	0	3	117	19,337	3	0	3	119
				T3S	17,167	3	0	3	105	18,493	3	0	3	113	18,727	3	0	3	115
				T3M	17,683	3	0	3	108	19,049	3	0	3	117	19,290	3	0	3	118
				T4M	17,299	3	0	3	106	18,635	3	0	4	114	18,871	3	0	4	116
				TFTM	17,672	3	0	3	108	19,038	3	0	4	117	19,279	3	0	4	118
				T5VS	18,379	4	0	1	113	19,800	4	0	1	121	20,050	4	0	1	123
				T5S	18,394	4	0	2	113	19,816	4	0	2	122	20,066	4	0	2	123
				T5M	18,348	4	0	2	113	19,766	4	0	2	121	20,016	4	0	2	123
				T5W	18,228	5	0	3	112	19,636	5	0	3	120	19,885	5	0	3	122
				BLC	14,489	2	0	2	89	15,609	2	0	3	96	15,806	2	0	3	97
				LCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
				RCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
40	1400	**P7**	183W	T1S	19,227	3	0	3	105	20,712	3	0	3	113	20,975	3	0	3	115
				T2S	19,206	3	0	3	105	20,690	3	0	3	113	20,952	3	0	3	114
				T2M	19,305	3	0	3	105	20,797	3	0	3	114	21,060	3	0	3	115
				T3S	18,696	3	0	3	102	20,141	3	0	3	110	20,396	3	0	4	111
				T3M	19,258	3	0	3	105	20,746	3	0	3	113	21,009	3	0	3	115
				T4M	18,840	3	0	4	103	20,296	3	0	4	111	20,553	3	0	4	112
				TFTM	19,246	3	0	4	105	20,734	3	0	4	113	20,996	3	0	4	115
				T5VS	20,017	4	0	1	109	21,564	4	0	1	118	21,837	4	0	1	119
				T5S	20,033	4	0	2	109	21,581	4	0	2	118	21,854	4	0	2	119
				T5M	19,983	4	0	2	109	21,527	5	0	3	118	21,799	5	0	3	119
				T5W	19,852	5	0	3	108	21,386	5	0	3	117	21,656	5	0	3	118
				BLC	15,780	2	0	3	86	16,999	2	0	3	93	17,214	2	0	3	94
				LCCO	11,742	2	0	3	64	12,649	2	0	3	69	12,809	2	0	3	70
				RCCO	11,742	2	0	3	64	12,649	2	0	3	69	12,809	2	0	3	70
60	1050	**P8**	207W	T1S	22,490	3	0	3	109	24,228	3	0	3	117	24,535	3	0	3	119
				T2S	22,466	3	0	4	109	24,202	3	0	4	117	24,509	3	0	4	118
				T2M	22,582	3	0	3	109	24,327	3	0	3	118	24,635	3	0	3	119
				T3S	21,870	3	0	4	106	23,560	3	0	4	114	23,858	3	0	4	115
				T3M	22,527	3	0	4	109	24,268	3	0	4	117	24,575	3	0	4	119
				T4M	22,038	3	0	4	106	23,741	3	0	4	115	24,041	3	0	4	116
				TFTM	22,513	3	0	4	109	24,253	3	0	4	117	24,560	3	0	4	119
				T5VS	23,415	5	0	1	113	25,224	5	0	1	122	25,543	5	0	1	123
				T5S	23,434	4	0	2	113	25,244	4	0	2	122	25,564	4	0	2	123
				T5M	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				T5W	23,221	5	0	4	112	25,016	5	0	4	121	25,332	5	0	4	122
				BLC	18,458	2	0	3	89	19,885	2	0	3	96	20,136	2	0	3	97
				LCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
60	1250	**P9**	241W	T1S	25,575	3	0	3	106	27,551	3	0	3	114	27,900	3	0	3	116
				T2S	25,548	3	0	4	106	27,522	3	0	4	114	27,871	3	0	4	116
				T2M	25,680	3	0	3	107	27,664	3	0	3	115	28,014	3	0	3	116
				T3S	24,870	3	0	4	103	26,791	3	0	4	111	27,130	3	0	4	113
				T3M	25,617	3	0	4	106	27,597	3	0	4	115	27,946	3	0	4	116
				T4M	25,061	3	0	4	104	26,997	3	0	4	112	27,339	3	0	4	113
				TFTM	25,602	3	0	4	106	27,580	3	0	4	114	27,929	3	0	4	116
				T5VS	26,626	5	0	1	110	28,684	5	0	1	119	29,047	5	0	1	121
				T5S	26,648	4	0	2	111	28,707	5	0	2	119	29,070	5	0	2	121
				T5M	26,581	5	0	3	110	28,635	5	0	3	119	28,997	5	0	3	120
				T5W	26,406	5	0	4	110	28,447	5	0	4	118	28,807	5	0	4	120
				BLC	20,990	2	0	3	87	22,612	2	0	3	94	22,898	2	0	3	95
				LCCO	15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71
				RCCO	15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
60	530	**P10**	106W	T1S	13,042	3	0	3	123	14,050	3	0	3	133	14,228	3	0	3	134
				T2S	12,967	4	0	4	122	13,969	4	0	4	132	14,146	4	0	4	133
				T2M	13,201	3	0	3	125	14,221	3	0	3	134	14,401	3	0	3	136
				T3S	12,766	4	0	4	120	13,752	4	0	4	130	13,926	4	0	4	131
				T3M	13,193	4	0	4	124	14,213	4	0	4	134	14,393	4	0	4	136
				T4M	12,944	4	0	4	122	13,945	4	0	4	132	14,121	4	0	4	133
				TFTM	13,279	4	0	4	125	14,305	4	0	4	135	14,486	4	0	4	137
				T5VS	13,372	3	0	1	126	14,405	4	0	1	136	14,588	4	0	1	138
				T5S	13,260	3	0	1	125	14,284	3	0	1	135	14,465	3	0	1	136
				T5M	13,256	4	0	2	125	14,281	4	0	2	135	14,462	4	0	2	136
				T5W	13,137	4	0	3	124	14,153	4	0	3	134	14,332	4	0	3	135
				BLC	10,906	3	0	3	103	11,749	3	0	3	111	11,898	3	0	3	112
				LCCO	7,789	1	0	3	73	8,391	1	0	3	79	8,497	1	0	3	80
				RCCO	7,779	4	0	4	73	8,380	4	0	4	79	8,486	4	0	4	80
60	700	**P11**	137W	T1S	16,556	3	0	3	121	17,835	3	0	3	130	18,061	4	0	4	132
				T2S	16,461	4	0	4	120	17,733	4	0	4	129	17,957	4	0	4	131
				T2M	16,758	4	0	4	122	18,053	4	0	4	132	18,281	4	0	4	133
				T3S	16,205	4	0	4	118	17,457	4	0	4	127	17,678	4	0	4	129
				T3M	16,748	4	0	4	122	18,042	4	0	4	132	18,271	4	0	4	133
				T4M	16,432	4	0	4	120	17,702	4	0	4	129	17,926	4	0	4	131
				TFTM	16,857	4	0	4	123	18,159	4	0	4	133	18,389	4	0	4	134
				T5VS	16,975	4	0	1	124	18,287	4	0	1	133	18,518	4	0	1	135
				T5S	16,832	4	0	1	123	18,133	4	0	2	132	18,362	4	0	2	134
				T5M	16,828	4	0	2	123	18,128	4	0	2	132	18,358	4	0	2	134
				T5W	16,677	4	0	3	122	17,966	5	0	3	131	18,193	5	0	3	133
				BLC	13,845	3	0	3	101	14,915	3	0	3	109	15,103	3	0	3	110
				LCCO	9,888	1	0	3	72	10,652	2	0	3	78	10,787	2	0	3	79
				RCCO	9,875	4	0	4	72	10,638	4	0	4	78	10,773	4	0	4	79
60	1050	**P12**	207W	T1S	22,996	4	0	4	111	24,773	4	0	4	120	25,087	4	0	4	121
				T2S	22,864	4	0	4	110	24,631	5	0	5	119	24,943	5	0	5	120
				T2M	23,277	4	0	4	112	25,075	4	0	4	121	25,393	4	0	4	123
				T3S	22,509	4	0	4	109	24,248	5	0	5	117	24,555	5	0	5	119
				T3M	23,263	4	0	4	112	25,061	4	0	4	121	25,378	4	0	4	123
				T4M	22,824	5	0	5	110	24,588	5	0	5	119	24,899	5	0	5	120
				TFTM	23,414	5	0	5	113	25,223	5	0	5	122	25,543	5	0	5	123
				T5VS	23,579	5	0	1	114	25,401	5	0	1	123	25,722	5	0	1	124
				T5S	23,380	4	0	2	113	25,187	4	0	2	122	25,506	4	0	2	123
				T5M	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				T5W	23,165	5	0	4	112	24,955	5	0	4	121	25,271	5	0	4	122
				BLC	19,231	4	0	4	93	20,717	4	0	4	100	20,979	4	0	4	101
				LCCO	13,734	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,716	4	0	4	66	14,776	4	0	4	71	14,963	4	0	4	72
60	1250	**P13**	231W	T1S	25,400	4	0	4	110	27,363	4	0	4	118	27,709	4	0	4	120
				T2S	25,254	5	0	5	109	27,205	5	0	5	118	27,550	5	0	5	119
				T2M	25,710	4	0	4	111	27,696	4	0	4	120	28,047	4	0	4	121
				T3S	24,862	5	0	5	108	26,783	5	0	5	116	27,122	5	0	5	117
				T3M	25,695	5	0	5	111	27,680	5	0	5	120	28,031	5	0	5	121
				T4M	25,210	5	0	5	109	27,158	5	0	5	118	27,502	5	0	5	119
				TFTM	25,861	5	0	5	112	27,860	5	0	5	121	28,212	5	0	5	122
				T5VS	26,043	5	0	1	113	28,056	5	0	1	121	28,411	5	0	1	123
				T5S	25,824	4	0	2	112	27,819	5	0	2	120	28,172	5	0	2	122
				T5M	25,818	5	0	3	112	27,813	5	0	3	120	28,165	5	0	3	122
				T5W	25,586	5	0	4	111	27,563	5	0	4	119	27,912	5	0	4	121
				BLC	21,241	4	0	4	92	22,882	4	0	4	99	23,172	4	0	4	100
				LCCO	15,170	2	0	4	66	16,342	2	0	4	71	16,549	2	0	4	72
				RCCO	15,150	5	0	5	66	16,321	5	0	5	71	16,527	5	0	5	72

FEATURES & SPECIFICATIONS

INTENDED USE
The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION
Single-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 and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft^2) for optimized pole wind loading.

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 both textured and non-textured finishes.

OPTICS
Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS
The DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programing and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS
The DSX1 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

INSTALLATION
Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern (template #8). NEMA photocontrol receptacle are also available.

LISTINGS
UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40ºC minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

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

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

BUY AMERICAN
Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/support/customer-support/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.

D-Series Size 1
LED Wall Luminaire

Buy American

d-series

Catalog Number

Notes

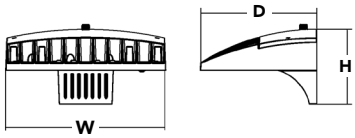
Type

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

Specifications

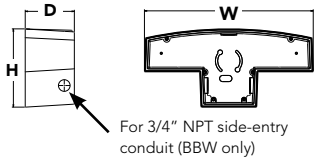
Luminaire

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

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

Shipped installed

SF	Single fuse (120, 277 or 347V) [3,10]
DF	Double fuse (208, 240 or 480V) [3,10]
HS	House-side shield [11]
SPD	Separate surge protection [12]

Shipped separately [11]

BSW	Bird-deterrent spikes
VG	Vandal guard
DDL	Diffused drop lens

Finish *(required)*

DDBXD	Dark bronze	DSSXD	Sandstone	DWHGXD	Textured white
DBLXD	Black	DDBTXD	Textured dark bronze	DSSTXD	Textured sandstone
DNAXD	Natural aluminum	DBLBXD	Textured black		
DWHXD	White	DNATXD	Textured natural aluminum		

Accessories

Ordered and shipped separately.

DSXWHS U	House-side shield (one per light engine)
DSXWBSW U	Bird-deterrent spikes
DSXW1VG U	Vandal guard accessory

NOTES

1. 20C 1000 is not available with PIR, PIRH, PIR1FC3V or PIRH1FC3V.
2. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
3. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
4. Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH.
5. Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.
6. Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
7. Reference Motion Sensor table on page 3.
8. 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
9. Not available with SPD.
10. Not available with ELCW.
11. Also available as a separate accessory; see Accessories information.
12. Not available with ELCW.

Performance Data

Lumen Output

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

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

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Performance Data

Lumen Ambient Temperature (LAT) Multipliers

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

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

Projected LED Lumen Maintenance

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

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

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

Electrical Load

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

Motion Sensor Default Settings

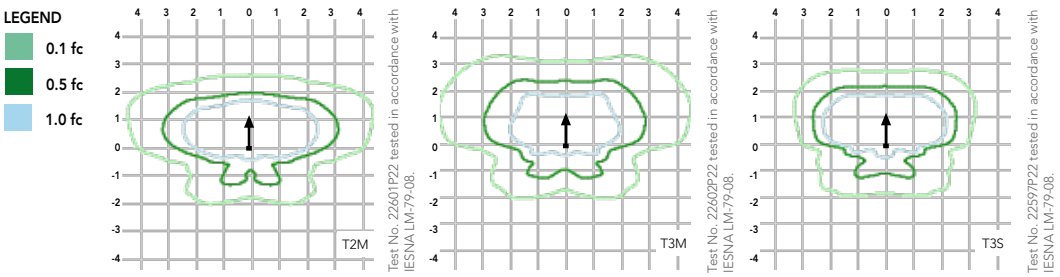
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*For use when motion sensor is used as dusk to dawn control

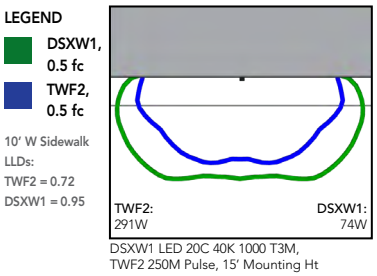
Photometric Diagrams

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

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



Distribution overlay comparison to 250W metal halide.

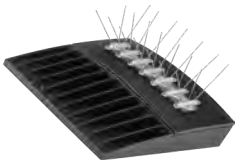


DSXW1 LED 20C 40K 1000 T3M, TWF2 250M Pulse, 15' Mounting Ht

Options and Accessories

T3M (left)

HS - House-side shields



BSW - Bird-deterrent spikes

VG - Vandal guard

DDL - Diffused drop lens

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.

BUY AMERICAN
This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

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.

Lumark

DESCRIPTION

The CLCSLED luminaire provides a slim, low profile, traditional design with high performance energy efficient illumination. Rugged die-cast aluminum construction and gasketed housing make the CLCSLED virtually impenetrable to contaminants. UL/cUL wet location listed. Replaces up to 400W metal halide equivalent. The CLCSLED canopy luminaire mounts quickly to a variety of surfaces making it ideal for bank drive-thrus, covered side walks, hospitality entryways, and retail drive-thrus.

Catalog #		**Type**
Project		
Comments		**Date**
Prepared by		

SPECIFICATION FEATURES

Constructon
HOUSING: Durable, die-cast aluminum housing with (4) 1/2" NPS side conduit entries. UL 1598 wet location listed and IP66 ingress protection rated.

Optical
Solid state LED luminaires are thermally optimized with four lumen packages. Available in cool 5000K or neutral 4000K LED color temperatures (CCT).

Electrical
LED driver and related electrical components are hard mounted to the die-cast housing for optimal heat sinking and operating efficiency. Integral driver incorporates internal fusing designed to withstand a 4kV surge test and is rated for 120-277V 50/60Hz and 347V 60Hz with an operating temperature range of -40°C to 25°C (select SKUs at 40°C maximum). CLCSLED LED systems maintain greater than 94% of the initial light output after 50,000 hours of operation.

Mounting
Standard fixture mounts to a square or octagonal 4" surface or recessed j-box via heavy-gauge quick mount bracket.

Finish
Housing finished in a UV stabilized powder coat paint for superior protection against fade and wear. Standard color is bronze.

Options
3/4" pendant mount in 6" length available as an option.

Warranty
Five-year warranty.

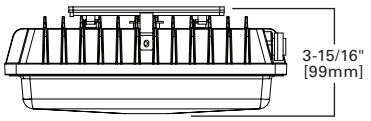
CLCSLED

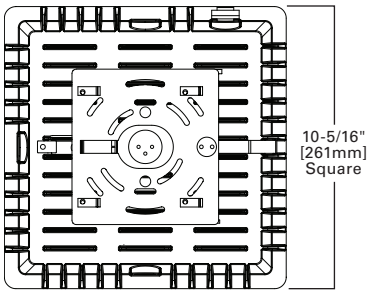
36W, 56W, 92W, 121W
LED

CANOPY LUMINAIRE

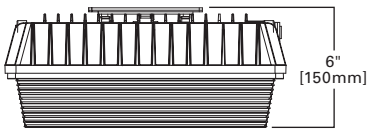
DIMENSIONS

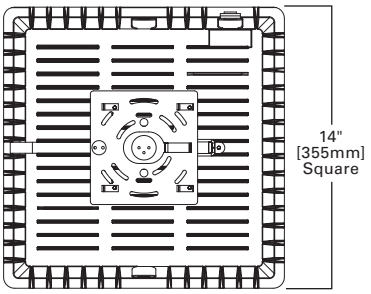
36W-56W Model





92W-121W Model





TECHNICAL DATA

UL/cUL Wet Location Listed
IP66 Rated
DesignLights Consortium® Qualified*

SHIPPING DATA

Approximate Net Weight:
5-8 lbs. (2.26-3.71 kgs.)

*www.designlights.org

POWER AND LUMENS

4000K	CLCSLED-40	CLCSLED-55	CLCSLED-86	CLCSLED-117
Delivered Lumens	4,839	7,230	11,494	13,828
CCT (Kelvin)	4000	4000	4000	4000
CRI (Color Rendering Index)	70	70	70	70
Power Consumption (Watts)	36	56	92	121
5000K	**CLCSLED-40**	**CLCSLED-55**	**CLCSLED-86**	**CLCSLED-117**
Delivered Lumens	4,739	6,878	11,279	13,882
CCT (Kelvin)	5000	5000	5000	5000
CRI (Color Rendering Index)	70	70	70	70
Power Consumption (Watts)	36	56	90	120

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (50,000 Hours)	Theoretical L70 (Hours)
25°C	94.88%	346,000
40°C	94.03%	294,000

CURRENT DRAW

Voltage (V)	Model Series			
	CLCSLED-40	CLCSLED-55	CLCSLED-86	CLCSLED-117
	Current (A)	Current (A)	Current (A)	Current (A)
120V	0.31	0.47	0.73	0.98
208V	0.18	0.27	0.42	0.55
240V	0.15	0.23	0.36	0.47
277V	0.13	0.20	0.32	0.41
347V	0.12	0.16	0.25	0.34

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.03
15°C	1.02
25°C	1.00
40°C	0.97

ORDERING INFORMATION

Sample Number: CLCSLED-40-SM-UNV

Product Family [1, 2]	Lamp Wattage	Mount	Voltage	Options (Add as Suffix) [5]	Accessories (Order Separately)
CLCSLED	**40**=36W [3] **55**=56W [3] **86**=92W [4] **117**=121W	**SM**=Surface Mount	**UNV**=120-277V **347**=347V	**Blank**=70 CRI / 4000K **7050**=70 CRI / 5000K **BPC**=120-277V Button Photocontrol **10kV**=10kV Surge Protection	**CLCSPEND**=6" Long, 3/4" Pendant Mount

NOTES:
1. Available in bronze only.
2. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
3. 40°C maximum ambient operating temperature standard in all UNV configurations. 25°C maximum ambient operating temperature standard in all 347V configurations.
4. 40°C maximum ambient operating temperature standard in all 92W configurations.
5. Extended lead times apply.

Cypress OW1202

GET A QUOTE

H	24-1/8" (613 mm)
W	10-1/2" (267 mm)
D	7-1/2" (191 mm)

Spec Sheet

CCT
3000K
3500K
4000K

IES

Install

LUMENS

600
1200

WATTS
13
28

POWER
Integral

CONTROL
0-10V to 1%

CRITERION
Wet

Also of Interest:

Cypress OW1222
Cypress OW1204
Cypress CB5124

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Milwaukee, WI 53209
800-788-VISA

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WPLED26/PC

Color: Bronze

Weight: 7.1 lbs

Project:	Type:
Prepared By:	**Date:**

Driver Info

Type	Constant Current
120V	0.26A
208V	N/A
240V	N/A
277V	N/A
Input Watts	29.1W

LED Info

Watts	26W
Color Temp	5000K (Cool)
Color Accuracy	72 CRI
L70 Lifespan	100,000 Hours
Lumens	3,484
Efficacy	119.7 lm/W

Technical Specifications

Electrical

Driver:

Multi-chip 26W high output long life LED Driver Constant Current, 720mA, Class 2, 6kV Surge Protection, 100V-277V, 50-60 Hz, 100-240V.4 Amps.

THD:

11.91% at 120V, 9.68% at 277V

Power Factor:

99.1% at 120V, 93.1% at 277V

Photocell:

120V Button Photocell Included. Photocell is only compatible with 120V.

Compliance

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities. DLC Product Code: P0000170I

UL Listed:

Suitable for wet locations. Suitable for mounting within 1.2m (4ft) of the ground.

Performance

Lifespan:

100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Construction

IP Rating:

Ingress Protection rating of IP66 for dust and water

Finish:

Formulated for high durability and long-lasting color

Ambient Temperature:

Suitable for use in up to 40°C (104°F)

Cold Weather Starting:

Minimum starting temperature is -40°C (-40°F)

Green Technology:

Mercury and UV free. RoHS-compliant components.

LED Characteristics

Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Stability:

LED color temperature is warrantied to shift no more than 200K in color temperature over a 5-year period

Technical Specifications (continued)

LED Characteristics

Color Uniformity:

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Other

Patents:

The WPLED design is protected by U.S. Pat. D634878, Canada Pat 134878, China Pat. CN301649064S.

Equivalency:

Equivalent to 150W Metal Halide

Buy American Act Compliance:

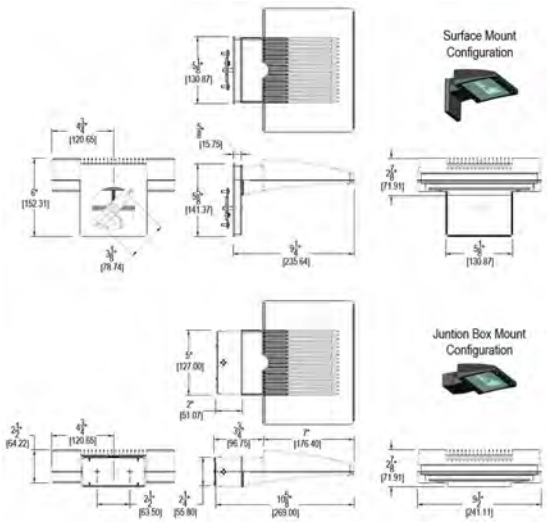
RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Optical

BUG Rating:

B1 U0 G0

Dimensions



Features

- Maintains 70% of initial lumens at 100,000-hours
- Weatherproof high temperature silicone gaskets
- Superior heat sinking with die cast aluminum housing and external fins
- 100 up to 277 Volts
- 5-Year, No-Compromise Warranty

Prestige

cyclone

Prestige
DETAILS

Performance and efficiency highlight the PRESTIGE Series. Whether lighting a street, park, residential neighborhood or boulevard, luminaires in the PRESTIGE Series provide just the right amount of lighting.

CY11T4B

CONSTRUCTION
- Spun aluminum hood with finial and decorative guard.
- Sturdy aluminum housing
- Silicone gaskets and stainless steel hardware
- Mounts onto Ø4" O.D. x 3" long tenon with available 2 7/8" O.D. (R28) and 3" O.D. (R30) fitter adaptors.

LED, LENS & OPTICS
- High power LED available in 3000k & 4000K
- Type 2, 3, 3m (wide), 4 & 5 Roadway optics available
- Optional House-side shield available to cut back light
- UV stable acrylic ribbed globe is available in ribbed (VS3AR) or pond (VS3AP)

FINISH
- 10 standard colors available in textured (TX) or smooth (SM) finish
- Optional RAL colors are also available
- Super durable extremely resistant exterior polyester powder coating meets AAMA 2604 requirements (5 years South Florida exposure)
- For added protection a Marine Grade (MG) pre-finish is available to meet ASTM G7, B117,D1654 and D2247 requirements (salt spray, corrosion and humidity resistance)

CY18T4B*
Copper Copula only available on CY18T4B*

CY13T4A
EPA: 1.75 FT²
Weight: 27 lbs - 12 kg

ELECTRICAL
- Dimmable 0-10 volt, high power factor (90%) driver
- 120, 208, 240, 277, 347 OR 480 volts available
- 10 kA Surge protector supplied standard

OPTIONAL
- Programmable driver (PROG)
- Button-type photocell (PC)
- Field adjustable 10% increment step-dimming switch (SD)

Contact factory for **WIRELESS CONTROLS** and further details

c UL us SUITABLE FOR WET LOCATIONS

IP66

cyclone

REV. 4

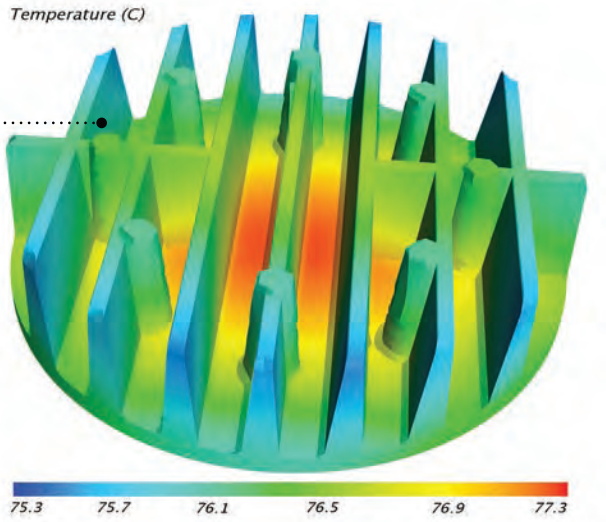
Sky
LED ENGINE

The Sky Light engine is our mid-sized custom designed, modular system that combines state-of-the-art optics, LEDs and thermal management and is rigorously tested to ensure high performance and long life.

ROBUST DESIGN

- Aluminum LED board with acrylic optic
- Die cast aluminum alloy heat sink with thermal interface
- Heat sink designed and tested for optimal thermal management performance in all weather from 40C/-40F to 50C/ 122F
- High Power LED diodes with thermal and electric protection for stability and protects it from electrical surge.

Computational Fluid Dynamics simulation



COMPACT PERFORMANCE

- Mid-sized, modular design allows the SKY wattages ranging from 34 to 68W
- Equivalent to 70 to 150 W HID with 60% energy saving

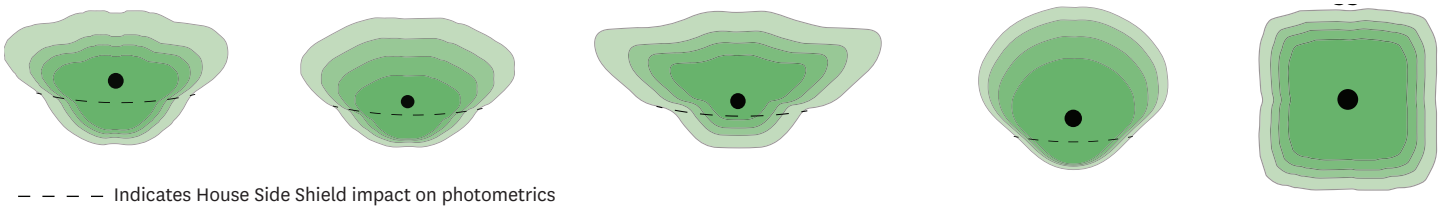
- SKY engines are tested & designed for a lifespan of over 100,000 hours

- Tested according to LM79 standard by recognize NVLAP independent laboratories

IES Distribution types

Cyclone Lighting offers optically engineered performance systems based on a series of acrylic injection molded lens of IES Roadway distribution types giving you the performance of a cobra head in a sleek decorative fixture.

Type 2 | Type 3 | Type 3M | Type 4 | Type 5



– – – – Indicates House Side Shield impact on photometrics

House Side Shield option

The HOUSE SIDE SHIELD (HS) give you a better back control for those LEED projects where light spill or light trespass are critical. This options can be added post installation.

Please consult website for latest IES files

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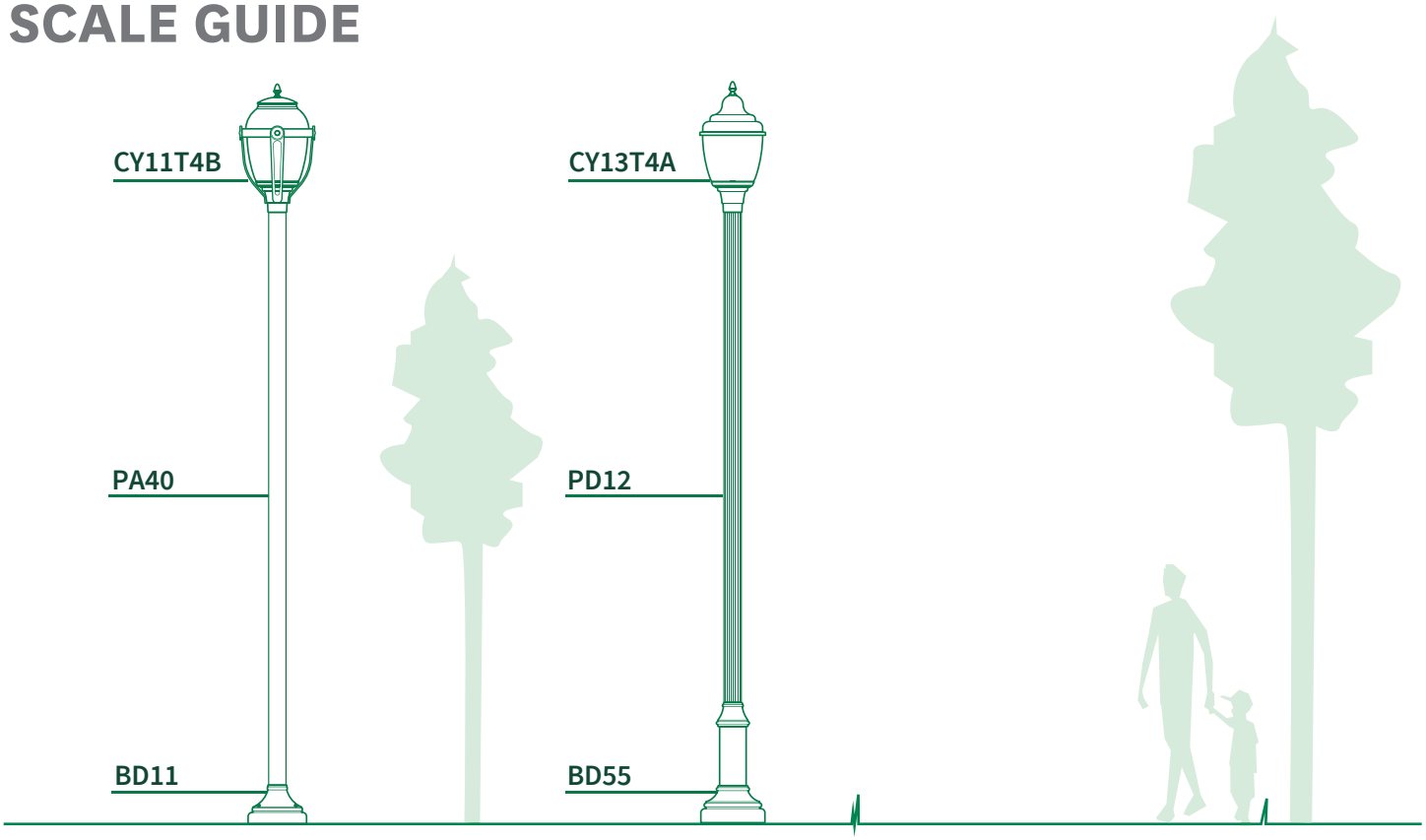
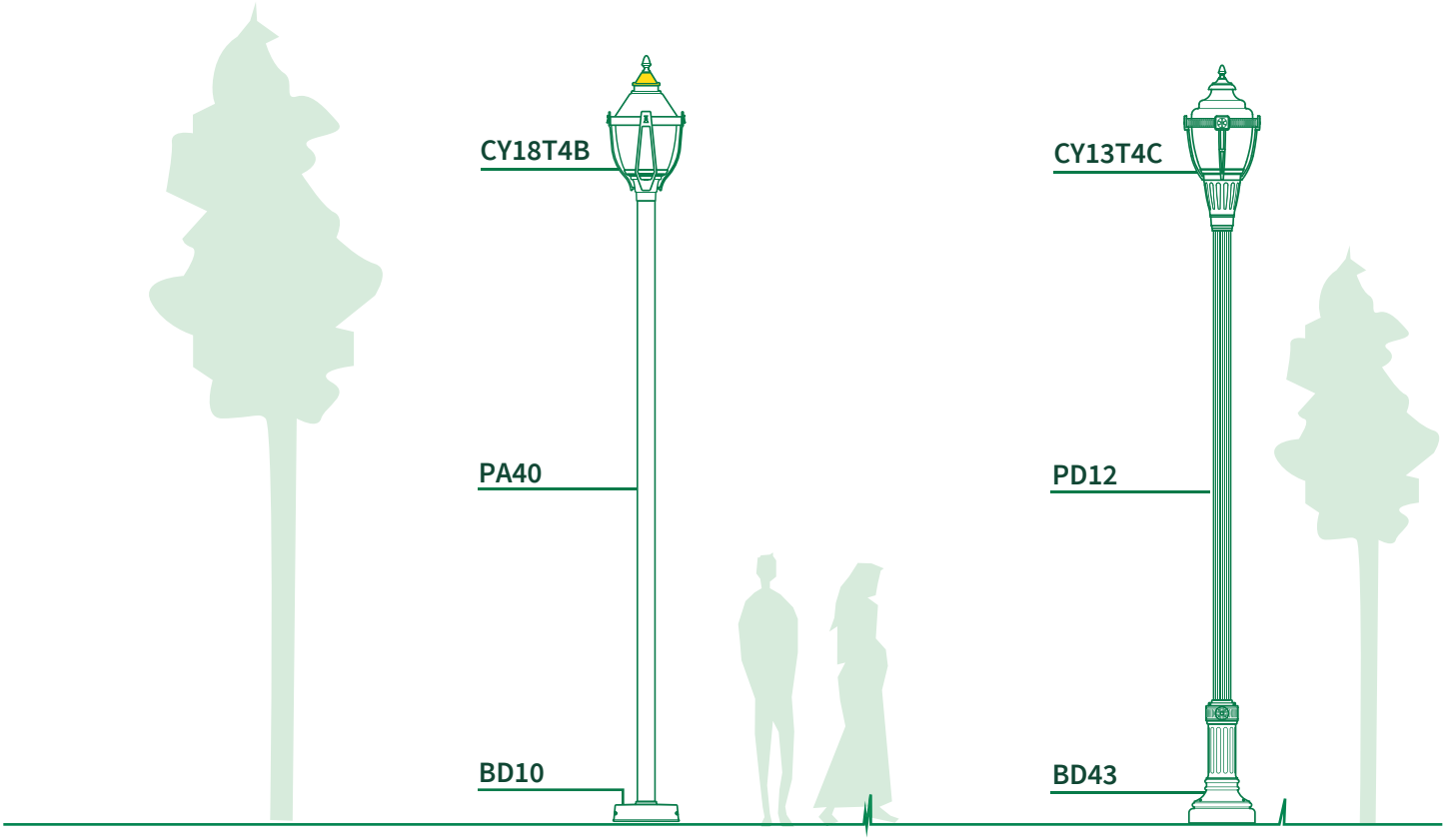
REV. 4

Luminaire
SCALE GUIDE





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REV. 4

Post Top
CY18T4 / CY13T4 / CY11T4

Ordering Template

MODEL	LENS	DIST.	WATT	CCT	VOLT	REDUCER	OPTIONS	COLOR	TEXTURE	OP.FIN.
CY18T4A	VS3AR	2	34W	3K	120	NONE	NONE	BK	TX	MG
CY18T4B	VS3AP	3	50W	4K	208	R28	PROG	DG	SM[1]	
CY18T4C		3M	68W		240	R30	PC [1]	MA		
CY13T4A		4			277			SI[1]		
CY13T4B		5			347			BZ		
CY13T4C		2HS			480			BG		
CY11T4A		3HS						GM		
CY11T4B		3MHS						PG		
CY11T4C		4HS						WH		
CY11T4D										

[1] NOT AVAILABLE FOR 480V

ORDERING CODE

References

LENS

VS3AR	GLOBE ACRYLIC RIBBED
VS3AP	GLOBE ACRYLIC POND

DISTRIBUTION

HS	INTERNAL HOUSE SHIELD

SEE PHOTOMETRIC PAGE FOR DETAILS

CCT

3K	3000K
4K	4000K

WATT

SEE PHOTOMETRIC PAGE FOR LUMEN OUTPUT

REDUCER

NONE	FITS 4" O.D. X 3" LONG TENON
R28	REDUCER 4" O.D. TO 2 7/8" O.D. X 3" LONG TENON
R30	REDUCER 4" O.D. TO 3" O.D. X 3" LONG TENON

OPTIONS

NONE	NONE
PROG*	PROGAMMABLE DRIVER
PC	BUTTON-TYPE PHOTOCELL

*CONTACT FACTORY FOR WIRELESS APPLICATIONS AND FOR MORE DETAILS

COLOR

BK	BLACK RAL9005
DG	DARK GREEN RAL6012
MA	MARINE BLUE RAL5013
SI[1]	METALLIC SILVER RAL9006 (SMOOTH ONLY)
BZ	DARK BRONZE RAL8019
BG	BURGUNDY RAL3005
GM	MOSS GREEN RAL6005
PG	PALE GREY RAL7040
WH	WHITE RAL9003

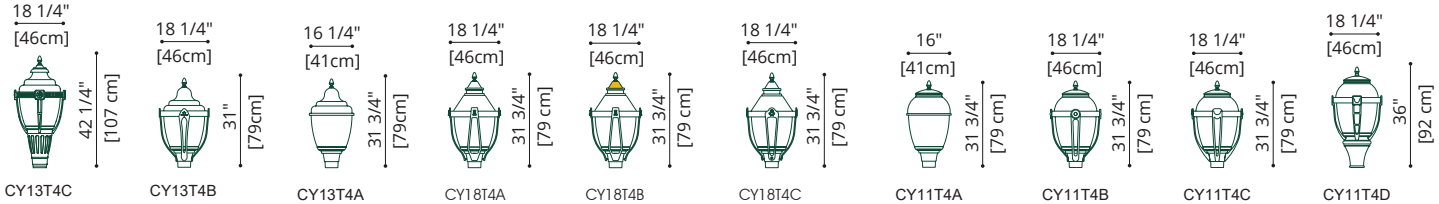
TEXTURE

TX	TEXTURED
SM[1]	SMOOTH

OP.FIN. (OPTIONAL FINISH)

MG	MARINE GRADE PRE-FINISH

Luminaire



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REV. 4

Photometry

CY18T4 / CY13T4 / CY11T4

SOURCE: LED **4000K ± 150K, 70** CRI minimum[1]
WATERPROOF RATING: IP66 optical system

LED code definition:
2 - 34W - 4K

- Color temperature
- LED Wattage
- Optical distribution

CY13T4A

Ribbed Globe (VS3AR)

LED CODE	LUMEN OUTPUT	EFFICACY (LM/W)	WATTAGE LED	WATTAGE SYSTEM[2]	LED CURRENT (mA)	BUG RATING	HID EQUIVALENCY[3]
2-34W-4K	4071	107	34	38	350	B1-U3-G1	70W
3-34W-4K	4200	111	34	38	350	B1-U3-G1	70W
3M-34W-4K	4379	115	34	38	350	B2-U3-G3	70W
4-34W-4K	4341	114	34	38	350	B1-U3-G2	70W
5-34W-4K	4561	120	34	38	350	B3-U3-G2	70W
2-50W-4K	5714	99	50	58	530	B2-U3-G2	100W
3-50W-4K	5894	102	50	58	530	B2-U3-G2	100W
3M-50W-4K	6146	106	50	58	530	B2-U3-G3	100W
4-50W-4K	6093	105	50	58	530	B2-U3-G2	100W
5-50W-4K	6401	110	50	58	530	B3-U3-G2	100W
2-68W-4K	7142	90	68	79	700	B2-U3-G2	150W
3-68W-4K	7368	93	68	79	700	B2-U3-G2	150W
3M-68W-4K	7683	97	68	79	700	B3-U3-G3	150W
4-68W-4K	7616	96	68	79	700	B2-U3-G2	150W
5-68W-4K	8001	101	68	79	700	B3-U3-G3	150W

[1]**IES-TM-21** Calculated **L70** is over **363 000** hours.
IES-TM-21 Reported more than **54 000** hours.
[2]System wattage includes the LED and the Driver.
[3]Equivalency should always be verified by photometric layout.
*4000K used for testing, 3000K photometrics is available on website.

Note: Due to rapid and continuous advances in LED technology, LED luminaire data is subject to change without notice and at the discretion of Cyclone Lighting. Cyclone Lighting reserves the right to substitute materials or change the manufacturing process of its products without prior notification. See the latest results and updates on our website at www.cyclonelighting.com

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AcuityBrands.

CITY OF MADISON
LANDSCAPE WORKSHEET

Section 28.142 Madison General Ordinance

Project Location / Address 30 ASH ST. MADISON, WI 53726

Name of Project MMSD - WEST HIGH SCHOOL ADDITION AND RENOVATION

Owner / Contact SAIKI DESIGN - SAMANTHA FERRELL-FOLGER

Contact Phone 608.405.8160 Contact Email sferrell@saiki.design

**** Landscape plans for zoning lots greater than ten thousand (10,000) square feet in size MUST be prepared by a registered landscape architect. ****

Applicability

The following standards apply to all exterior construction and development activity, including the expansion of existing buildings, structures and parking lots, except the construction of detached single-family and two-family dwellings and their accessory structures. The entire development site must be brought up to compliance with this section unless **all** of the following conditions apply, in which case only the affected areas need to be brought up to compliance:

(a) The area of site disturbance is less than ten percent (10%) of the entire development site during any ten-(10) year period.

(b) Gross floor area is only increased by ten percent (10%) during any ten-(10) year period.

(c) No demolition of a principal building is involved.

(d) Any displaced landscaping elements must be replaced on the site and shown on a revised landscaping plan.

Landscape Calculations and Distribution

Required landscaped areas shall be calculated based upon the total developed area of the property. Developed area is defined as that area within a single contiguous boundary which is made up of structures, parking, driveways and docking/loading facilities, but excluding the area of any building footprint at grade, land designated for open space uses such as athletic fields, and undeveloped land area on the same zoning lot. There are three methods for calculating landscape points depending on the size of the lot and Zoning District.

(a) For all lots except those described in (b) and (c) below, five (5) landscape points shall be provided for each three hundred (300) square feet of developed area.

Total square footage of developed area 160,383

Total landscape points required 2,673

(b) **For lots larger than five (5) acres,** points shall be provided at five (5) points per three hundred (300) square feet for the first five (5) developed acres, and one (1) point per one hundred (100) square feet for all additional acres.

Total square footage of developed area 160,383

Five (5) acres = 217,800 square feet

First five (5) developed acres = 3,630 points

Remainder of developed area _____

Total landscape points required 2,673

(c) **For the Industrial – Limited (IL) and Industrial – General (IG) districts,** one (1) point shall be provided per one hundred (100) square feet of developed area.

Total square footage of developed area _____

Total landscape points required _____

Tabulation of Points and Credits

Use the table to indicate the quantity and points for all existing and proposed landscape elements.

Plant Type/ Element	Minimum Size at Installation	Points	Credits/ Existing Landscaping		New/ Proposed Landscaping	
			Quantity	Points Achieved	Quantity	Points Achieved
Overstory deciduous tree	2½ inch caliper measured diameter at breast height (dbh)	35	16	560	3	105
Tall evergreen tree (i.e. pine, spruce)	5-6 feet tall	35	3	105		
Ornamental tree	1 1/2 inch caliper	15	12	180	22	330
Upright evergreen shrub (i.e. arborvitae)	3-4 feet tall	10	3	30	14	140
Shrub, deciduous	#3 gallon container size, Min. 12"-24"	3	35	105	125	375
Shrub, evergreen	#3 gallon container size, Min. 12"-24"	4	9	36	45	180
Ornamental grasses/ perennials	#1 gallon container size, Min. 8"-18"	2	—	—	118	236
Ornamental/ decorative fencing or wall	n/a	4 per 10 lineal ft.	—	—	—	—
Existing significant specimen tree	Minimum size: 2 ½ inch caliper dbh. *Trees must be within developed area and cannot comprise more than 30% of total required points.	14 per caliper inch dbh. Maximum points per tree: 200	1 RED OAK 16" 1 D. OAK 3" 1 HACKBERRY 20"	224 42 280	—	—
Landscape furniture for public seating and/or transit connections	* Furniture must be within developed area, publically accessible, and cannot comprise more than 5% of total required points.	5 points per "seat"	—	—	—	—
Sub Totals				1,562		1,366

Total Number of Points Provided 2,928

* As determined by ANSI, ANLA- American standards for nursery stock. For each size, minimum plant sizes shall conform to the specifications as stated in the current American Standard for Nursery Stock.