PLANNING & ZONING
November 05, 2026
5:30 PM
City Hall

CITY OF MILLS
EST. 1921

Chairman:
John Gudger
Vice Chairman:
Chris Volzke
Members:
John Bryson
Laura Miramontes
Robin Baye

AGENDA

MILLS CITY PLANNING COMMISSION

ITEMS ON THIS AGENDA ARE SUBJECT TO A PUBLIC HEARING BEFORE THE CITY COUNCIL FOR FINAL ACTION

CALL TO ORDER

ELECTION OF OFFICERS FOR 2026-2027 TERM

1. Chair
2. Vice-Chair

CONSENT AGENDA

3. Approval of Minutes from 10/8/2026 Meeting

AGENDA ITEM

4. Midway No.2 - Replat/Subdivision
5. Wyoming Classical Academy Expansion - Untabling
6. Parking Regulations: Commission Discussion

PUBLIC COMMENT - Public comment is a time when citizens may bring forth items of interest or concern that are not on the agenda. Please note no formal action will be taken on these items during this time. However, they may be scheduled on a future posted agenda if action is required.

ADJOURNMENT

AGENDA SUBJECT TO CHANGE WITHOUT NOTICE

NEXT MEETING - December 3, 2026 at 5:30pm

In accordance with the Americans with Disabilities Act, persons who need accommodation in order to attend or participate in this meeting should contact City Hall at 307-234-6679 within 48 hours prior to the meeting in order to request such assistance.

PLANNING & ZONING
October 08, 2026
5:30 PM
City Hall

CITY OF MILLS
EST. 1921

Chairman:
John Gudger
Vice Chairman:
Chris Volzke
Members:
John Bryson
Laura Miramontes
Robin Baye

MINUTES

MILLS CITY PLANNING COMMISSION MEETING MINUTES

ITEMS ON THIS AGENDA ARE SUBJECT TO A PUBLIC HEARING BEFORE THE CITY COUNCIL FOR FINAL ACTION

CALL TO ORDER

Chairman John Gudger called the meeting to order at 5:34pm.

Board Attendees: John Gudger, Chris Volzke, John Bryson, and Laura Miramontes

City Employees: Casey Coates (Planner) and Megan Smith (City Clerk)

ELECTION OF OFFICERS FOR 2026-2027 TERM

1. Chair
2. Vice-Chair

Chairman Gudger motioned to postpone the election of officers one more time until the November meeting, seconded by Member Bryson. Voting Yea: Chairman Gudger, Vice Chairman Volzke, Member Bryson, Member Miramontes.

CONSENT AGENDA

3. Approval of Minutes from 08/06/2026 Meeting

Vice Chairman Volzke motioned to approve the minutes, seconded by Member Miramontes. Voting Yea: Chairman Gudger, Vice Chairman Volzke, Member Miramontes. No vote: Member Bryson

AGENDA ITEM

4. TETRAL NO. 1 SUBDIVISION

Planner Coates presented the Tetro No. 1 Subdivision final plat application, requesting approval to divide approximately 86.13 acres of unplatted land into two light industrial lots. Lot 1 would consist of approximately 8.3 acres, and Lot 2 approximately 77.8 acres. The plat also includes utility and sanitary sewer easements.

Staff reviewed the property's location, zoning, and existing easements, noting several large power line easements that significantly limit buildable areas on Lot 1 but do not prevent compliance with light industrial zoning standards. The plat meets all dimensional and most subdivision requirements.

During the initial review, staff identified concerns regarding access to Lot 2 because it lacked frontage on a public street and relied on a public access easement. Revised plans submitted after the staff report addressed this issue by

creating a 30-foot frontage connection to Powerline Road, allowing Lot 2 to meet access requirements as a flag lot. As a result, previous access-related concerns were resolved.

Staff recommended approval of the final plat with conditions, including:

- Revising plat language to clearly define the function of the access easement.
- Adding required utility easement labeling.
- Completing final technical review by the city engineer and surveyor.
- Recording a restriction that Lot 2 cannot be further subdivided or developed beyond the current plat until a dedicated public right-of-way meeting city standards is provided.

Commission members discussed the revised access configuration, future development limitations, and the long-term implications of creating a flag lot. Staff explained that any future subdivision of Lot 2 would require additional public access improvements and that the applicant had been advised of those limitations.

Commissioners also recommended that the plat restriction regarding future subdivision and access requirements be displayed prominently on the plat to ensure it is not overlooked in the future. No concerns were reported by reviewing agencies.

After discussion, commissioners indicated they were satisfied that the revised plat addressed the original access concerns and acknowledged the applicant's responsibility for any future development constraints created by the lot configuration.

No public comments were received. Member Bryson motioned to forward to council with recommendation for approval based on their comments, seconded by Member Miramontes. Voting Yea: Chairman Gudger, Vice Chairman Volzke, Member Bryson, Member Miramontes.

5. WYOMING CLASSICAL ACADEMY - DEVELOPMENT PLAN

Planner Coates presented an overview of the development plan review process, explaining that development plans are required for large commercial, industrial, multif-family residential projects, and public or private schools. The review evaluates compliance with zoning regulations, site design, traffic, drainage, landscaping, and infrastructure requirements before consideration by City Council.

The applicant, Wyoming Classical Academy, requested approval for Phase 2 of its campus expansion at 6389 Poison Spider Lane. The project would expand the school from K-9 to K-12 and includes a 16,384-square-foot building addition with 17 classrooms, expanded parking, circulation improvements, utility upgrades, drainage improvements, and recreation facilities. Future improvements, including a gymnasium, cafeteria, auditorium, athletic fields, and courts, were identified as separate future phases requiring additional approvals.

Staff reviewed the application history, documentation received, and revisions made during multiple review rounds. Several issues had been resolved, including parking stall dimensions, parking counts, fire access, fire protection, landscaping islands, traffic circulation, and frontage improvements. Outstanding items remained related to lighting, drainage, irrigation, photometric plans, pipeline approvals, and final platting requirements.

Commissioners expressed significant concerns regarding incomplete drainage information, the lack of a comprehensive photometric lighting plan, missing lighting fixture details, irrigation plans, and the need for clearer, scalable site drawings. Particular attention was given to existing drainage concerns in the surrounding neighborhood and the potential impacts of additional impervious surfaces. Discussion also addressed traffic circulation, school pickup and drop-off queuing, and the need to ensure traffic remains on school property rather than backing up onto surrounding streets.

Staff noted that some drainage and lighting information was still under review and that several items remained partially resolved or outstanding. Commissioners discussed whether the application met completeness requirements and whether sufficient information was available to make a recommendation to City Council.

Following discussion, a motion was made and seconded to table the development plan application pending submission of additional information, including:

- Comprehensive drainage and grading plans.
- Ditch and culvert capacity analysis.
- Pond routing and stormwater management information.
- Irrigation plans for landscaping and park strips.
- Complete photometric lighting plans, fixture specifications, cut sheets, and lighting narrative.
- Documentation regarding pipeline crossings and operator consent.
- Additional traffic-related information and proportional-share requirements for future signal improvements.
- Scalable, complete plan sets and supporting documents.

No public comments were received. Vice Chairman Volzke motioned to table the application, seconded by Member Bryson. Voting Yea: Chairman Gudger, Vice Chairman Volzke, Member Bryson, Member Miramontes.

PUBLIC COMMENT - Public comment is a time when citizens may bring forth items of interest or concern that are not on the agenda. Please note no formal action will be taken on these items during this time. However, they may be scheduled on a future posted agenda if action is required.

The Commission discussed the process for amending the zoning code to address issues identified during project reviews. Staff explained that code amendments can be initiated by staff, Planning & Zoning, or the Commission, and would follow the standard review and public hearing process before being considered by the City Council.

Commissioners expressed concern that the current parking stall requirement of **10 feet by 24 feet** is excessive and suggested reducing it to **10 feet by 22 feet** or smaller. Members noted that larger stall dimensions could significantly increase development costs and reduce the number of available parking spaces, particularly for future commercial developments and larger projects.

Discussion focused on the **Classical Academy** project, with commissioners noting that reducing stall lengths could allow for additional parking spaces while maintaining the overall parking lot footprint. Members also emphasized the importance of adequate on-site parking for future uses, including planned athletic facilities, to minimize overflow parking in nearby residential areas.

Staff recommended placing a comprehensive review of the City's parking standards on the **November Planning & Zoning agenda** rather than considering a single amendment in isolation. Commissioners agreed that parking requirements and other potential zoning text amendments should be reviewed as part of a broader evaluation of the zoning code, recognizing it as a living document that requires periodic updates.

The Commission directed staff to include a discussion of parking standards on the next meeting agenda.

ADJOURNMENT

The Chairman adjourned the meeting at 7:18pm

AGENDA SUBJECT TO CHANGE WITHOUT NOTICE

NEXT MEETING - November 5, 2026 at 5:30pm

In accordance with the Americans with Disabilities Act, persons who need accommodation in order to attend or participate in this meeting should contact City Hall at 307-234-6679 within 48 hours prior to the meeting in order to request such assistance.

_____

John Gudger, Chairman Date

_____

City Clerk, Megan Smith Date

CITY OF MILLS – PLANNING DEPT.

Midway Subdivision No. 2



Subdivision Review
Findings and Considerations

Staff Report — Midway Subdivision No. 2 (26-187)

Oct 29, 2026

City of Mills Planning Department — Subdivision Review, Findings and Considerations

Item	Detail
Case	W.O. 26-187, Final Plat — Vacation and Replat of Tract B, Midway Subdivision, as Midway Subdivision No. 2
Meeting	Planning & Zoning Commission, [meeting date]
Owner / applicant	Tetral Corporation of Casper, 7072 Barton Drive, Casper, WY 82604 (Steve Loftin, Vice President)
Surveyor / agent	Civil Engineering Professionals, Inc. (CEPI); William R. Fehringer, WY PLS No. 5528
Location	SE1/4NW1/4, Section 6, T.33N., R.79W., 6th P.M.; west end of Midway Road
Zoning	Industrial [confirm I-1 or I-2 from the zoning map]
Review process	Final Plat, Review Process 3 (§47.25(1))

Request

Tetral Corporation of Casper requests approval of a Final Plat that vacates Tract B, Midway Subdivision (recorded February 3, 2026, Inst. No. 1182926) and replats its 21.09 acres (918,901.47 sq. ft.) into two industrial lots:

Lot	Acres	Sq. ft. (approx.)	Street frontage	Access
Lot 6	3.86	168,140	Midway Road (60' ROW): 105.93' along the north line plus 303.50' of cul-de-sac arc	Direct from Midway Road cul-de-sac
Lot 7	17.23	750,540	West end of M-J-B Road (60' ROW) at the C-N 1/16 corner; width not dimensioned on the plat	Direct from M-J-B Road (public) at its west terminus; existing 30' access easements (Inst. #1147114 and one unlabeled) also cross the NE corner

The plat grants a utility easement to public and private utility companies along strips marked "Utility Easement"; the drawing shows a 15' utility easement along Lot 6's cul-de-sac frontage. The dedication states that all roads and streets shown were previously dedicated to the public. No new right-of-way is dedicated.

Background

Tract B is an L-shaped remainder at the west end of Midway Road, south of the Tetral Corporation land reviewed as Tetral Subdivision No. 1 on October 8. Lot 6 takes the southwest corner around the Midway Road cul-de-sac; Lot 7 takes the rest, wrapping north and east to the C-N 1/16 corner at M-J-B Road.

Direction	Adjacent land
North	Unplatted Lots 3 and 4, Section 6 (Tetral Subdivision No. 1, pending)
East	M-J-B Road (60' ROW) at the NE corner; Tracts No. 4 and 6, Tank Farm Industrial Park
South	Lots 1–5 and 12, Midway Subdivision; Midway Road (60' ROW) and cul-de-sac
West	Unplatted Lot 5 (SW1/4NW1/4), Section 6

Existing easements of record shown on the plat:

- 20' sanitary sewer easement (Inst. #459431) running north–south through both lots
- 75' power line easements (Book 31 Misc., p. 556; Book 26 AC&L, p. 611) and a 170' power line easement (Book 48 AC&L, p. 313) crossing Lot 7 diagonally and clipping the east side of Lot 6, with a "Restricted Building and Vegetation Area"
- 20' power line easement (Inst. #651587) and 60' power line easement (Inst. #957516), approximate locations
- 30' access easements near the C-N 1/16 corner — one labeled Inst. #1147114, one with no recording reference

The transmission corridor limits where buildings can go on both lots, but the buildable area left on each still far exceeds industrial minimums.

Title 17 Compliance Analysis

Both lots meet the industrial dimensional standards, and the plat meets most Final Plat content requirements. One item does not comply; it carries into the recommended conditions, along with a request to dimension Lot 7's frontage.

Industrial District Standards (§20.15, I-1 and I-2 Use District Charts)

Standard	I-1 / I-2 requirement	Lot 6	Lot 7	Status
Minimum lot size	6,000 / 10,000 sq. ft.	168,140 sq. ft.	750,540 sq. ft.	Complies
Minimum lot width	40' / 75'	approx. 680' (north line 681.54')	over 1,000'	Complies
Setbacks (front/side/rear)	I-1: 25' / 5' / 15'; I-2: 25' / 5' / 15' (25' all sides abutting residential)	Applied at building permit	Applied at building permit	N/A to plat

Standard	I-1 / I-2 requirement	Lot 6	Lot 7	Status
Lot coverage/height	85–90% / 45–50' (most uses)	Applied at site plan	Applied at site plan	N/A to plat

Subdivision Standards (Section 47)

Section	Requirement	Finding	Status
47.25(1)(c)	Final Plat for resubdividing to create new lots	Two lots from one tract; under 10 lots, no Preliminary Plat needed	Complies
47.55.030(1)(a)	Subdivision name, legal description, owner, engineer on plat	Shown	Complies
47.55.030(1)(b)	Space for County Clerk filing record	Blank box at upper right	Complies
47.55.030(1)(c)	Owner dedication and acknowledgment	Certificate of Dedication by Tetral Corp. VP; notary blank	Complies (to be executed)
47.55.030(1)(f)	Wyoming PLS certification	PLS No. 5528	Complies
47.55.030(1)(g)	All lots have satisfactory access to a public street with minimum frontage	Lot 6 fronts Midway Road. Lot 7 fronts the west end of M-J-B Road, a public street, at the NE corner; frontage width is not dimensioned	**Complies; dimension Lot 7 frontage**
47.55.030(1)(h)(ii)	Public access easements cannot be used in lieu of dedicated ROW	Lot 7's access is from M-J-B Road, a public street; the 30' access easements are supplemental	Complies
47.55.030(1)(k)(iii)	10' general utility easement along all street-side lot lines	15' utility easement along Lot 6's cul-de-sac frontage; none along Lot 7's M-J-B Road frontage	**Partial – Lot 7**
47.55.030(1)(l)	Closure better than 1:10,000, with closure reports	Note 1: exceeds 1:500,000	Complies
47.55.030(1)(m)	Signature blocks: Mayor, City Clerk, City Engineer, City Planner	Shown (plus City Surveyor)	Complies

Section	Requirement	Finding	Status
47.55.030(1)(n)–(o)	Record vs. measured differences; basis of bearings	(R)/(M) shown on every course; Note 2: WY State Plane East Central, NAD83(2011)	Complies
47.55.030(1)(p)(ii)	Curve data	R=60.00', L=303.50', Δ=289°49'29", chord shown with record values	Complies
47.55.030(1)(p)(iii)	Existing and proposed easements, use and size	All shown with use and width; one 30' access easement has no recording reference	Complies; add recording reference
47.55.030(1)(p)(vi)–(vii)	Monuments in legend; brass caps at major perimeter corners	Legend shown; brass caps (LS 13836) found at all perimeter corners; 5/8" rebar and aluminum cap set at the west end of the Lot 6/7 line	Complies
47.55.030(1)(p)(ix)	Grid or ground distance note	Note 4: all distances are grid	Complies
47.55.030(1)(q)	Abutting subdivisions named or marked unplatted	Midway, Tank Farm Industrial Park, Opportunity, B & B, unplatted parcels; adjoining Tetral Subdivision No. 1 Lot 2 (pending) not shown	Complies
10.95(4), (6)	Partial vacation requested by all owners; a replat acts to vacate the original	Tetral owns all of Tract B; Council action vacates Tract B	Complies
47.45	Digital plat (DWG/GIS), 2 control points, City coordinate system	2 control points with N/E; elevation, convergence angle and combined factor shown	Complies
47.55.030(8)	Supporting documents (drainage, title commitment, deed, site plan, narrative) unless waived	No new streets or public improvements proposed	Confirm received or waived
47.65	Park fees and dedication	Residential only	N/A

Section	Requirement	Finding	Status
47.70	Improvements installed or secured by Subdivision Improvements Agreement	Midway Road and cul-de-sac already dedicated; none proposed	City Engineer to confirm none required

Lot 7 Access – Splitting Tract B leaves Lot 7 with no frontage on Midway Road. Its street frontage is where the west end of M-J-B Road, a public street, meets its NE corner. That satisfies §47.55.030(1)(g), and Lot 7 does not depend on the 30' access easements in place of right-of-way under (h)(ii).

The plat does not dimension that frontage. §47.55.030(1)(p)(i) requires the exact location and width of streets meeting the boundary, so the plat should label M-J-B Road's width and Lot 7's frontage at the corner. Title 17 sets no minimum frontage width for industrial lots; the dimension matters because Lot 2 of Tetral Subdivision No. 1, a flag lot, reaches the same M-J-B Road terminus from the north.

Agency Review Comments

No reviewing agency raised concerns. Easements were added to the plat at the Town of Bar Nunn's request, which resolved its comment.

Agency	Basis	Response
City of Mills Public Works	§47.50(3)(a), required	No concerns
City of Mills Police Department	§47.50(3)(f), required	No concerns
City of Mills Fire Department	§47.50(3)(e), required	No concerns
Area utility providers [list by name]	§47.50(4)(b)–(e), gas, electric, telecom, cable	No concerns
City of Casper	§47.50(4)(f), adjacent municipality	No concerns
Town of Bar Nunn	§47.50(4)(f), adjacent municipality	Requested easements; added to the plat. No further concerns
City Engineer	§47.50(3)(b), required	No concerns
City Surveyor	§47.50(3)(c), required	No concerns
Building Inspector	§47.50(3)(d), required	No concerns

Findings of Fact

1. The property is within the City of Mills and zoned industrial. Industrial lots are consistent with the district purpose in §20.10.

2. Both proposed lots exceed the I-1 and I-2 minimum lot sizes (6,000 / 10,000 sq. ft.) and minimum lot widths (40' / 75').
3. The plat resubdivides Tract B, Midway Subdivision into two lots. It is a Final Plat reviewed under Review Process 3 (§47.25(1)(c)), and under §10.95(6) it acts to vacate Tract B.
4. The plat meets the content requirements of §47.55.030(1) for title, legal description, dedication, surveyor certification, record and measured data, basis of bearings, curve data, closure, signature blocks, grid note and abutting subdivisions.
5. Lot 6 has direct frontage on Midway Road, a dedicated 60' public right-of-way, including its cul-de-sac.
6. Lot 7 has frontage on M-J-B Road, a public street, at its northeast corner. Title 17 sets no minimum frontage width for industrial lots, so this access is satisfactory under §47.55.030(1)(g). The plat does not dimension that frontage or show the adjoining Tetral Subdivision No. 1 flag pole that shares the M-J-B Road terminus.
7. The plat shows a 15' utility easement along Lot 6's street frontage but no 10' general utility easement along Lot 7's street-side line (§47.55.030(1)(k)(iii)).
8. All agencies that responded to the §47.50 referral — Public Works, Police, Fire, area utilities, the City of Casper and the Town of Bar Nunn — reported no concerns. Easements Bar Nunn requested have been added to the plat.
9. With the conditions below, the plat can be brought into conformance with Title 17.

Staff Recommendation

Staff recommends the Commission forward the Final Plat of Midway Subdivision No. 2 to City Council with a recommendation of approval. The following conditions must be met before the plat goes to Council:

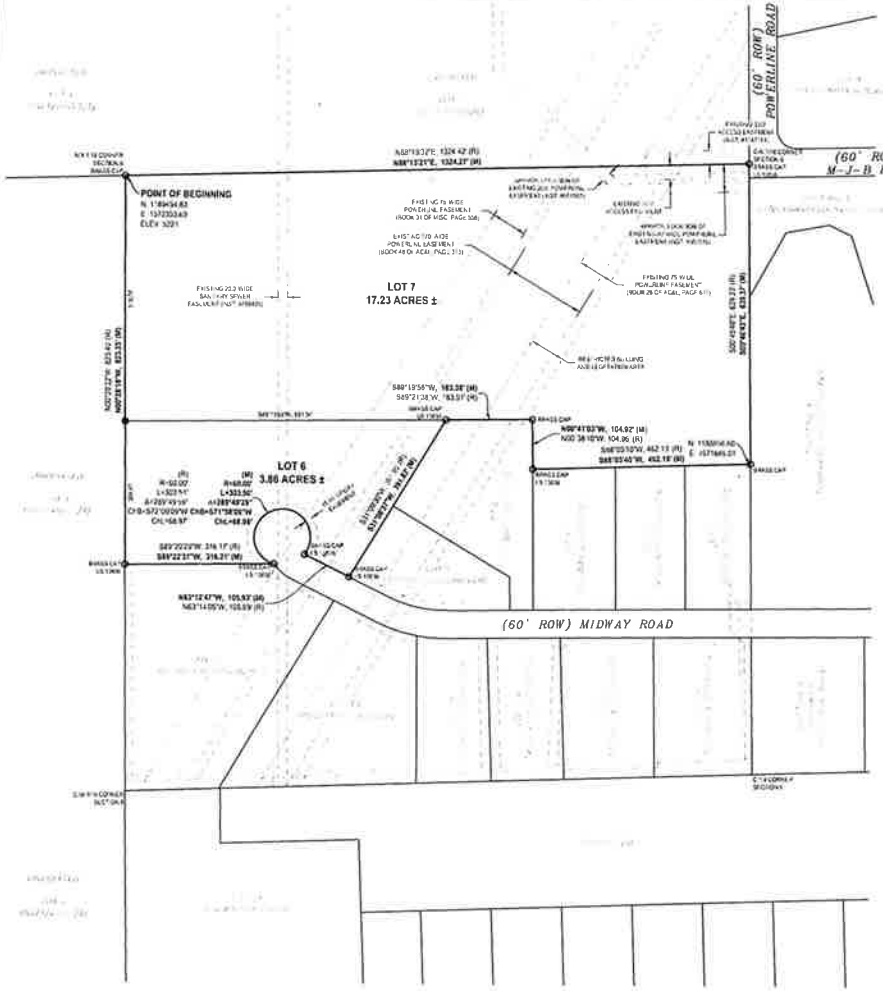
1. **Lot 7 Frontage.** Dimension the width of M-J-B Road at its west end and Lot 7's frontage on it (§47.55.030(1)(p)(i)). Label the adjoining flag pole of Lot 2, Tetral Subdivision No. 1, to the north (§47.55.030(1)(q)). Show the recording reference for the 30' access easement in Lot 7's northeast corner, and state whether it remains or is released (§47.55.030(1)(p)(iii)).
2. **Easements.** Show a 10' general utility easement along Lot 7's street-side lot line on M-J-B Road (§47.55.030(1)(k)(iii)).
3. **Execution.** Complete all signatures and notary acknowledgments before recording.

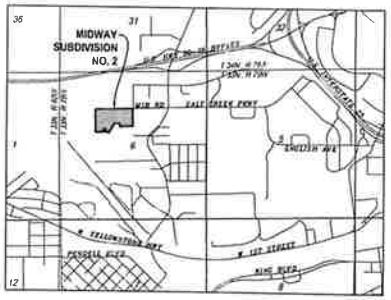
Alternatives

Under §47.40(7), the Commission may approve, approve with conditions, deny, or table the application.

Sample Motion

> *"I move to recommend that City Council approve the Final Plat of Midway Subdivision No. 2, a subdivision and replat of Tract B, Midway Subdivision, subject to the three conditions listed in the staff report, based on the findings of fact in the staff report."*





VICINITY MAP
SCALE: 1"=2000'

CERTIFICATE OF DEDICATION

STATE OF WYOMING }SS
COUNTY OF NATRONA }

THE UNDERSIGNED, TETRAL CORPORATION OF CASPER, DOES HEREBY CERTIFY THAT THEY ARE THE OWNERS AND PROPRIETORS OF THE FOLLOWING VACATION AND REPLAT CREATING TWO NEWLY CONFIGURED LOTS WITHIN THE CITY OF MILLS: A VACATION AND REPLAT OF TRACT B, MIDWAY SUBDIVISION, LOCATED WITHIN THE CITY OF MILLS, NATRONA COUNTY, WYOMING (RECORDED FEBRUARY 3, 2026 AS INSTRUMENT NO. 1182976), DESIGNATED AS MIDWAY SUBDIVISION NO. 2, SITUATE IN THE SE1/4NW1/4, OF SECTION 6, T.33N., R.79W., 6TH PRINCIPAL MERIDIAN, NATRONA COUNTY, WYOMING, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST 1/16 CORNER OF SECTION 6 AND THE NORTHWEST CORNER OF THE PARCEL BEING DESCRIBED, MONUMENTED BY A BRASS CAP;

THENCE N89°13'27"E, ALONG THE SOUTH LINE OF LOT 3 OF SAID SECTION 6 AND THE NORTH LINE OF THE PARCEL, A DISTANCE OF 1324.27 FEET TO THE CENTER-NORTH 1/16 CORNER OF SAID SECTION 6 AND THE NORTHEAST CORNER OF THE PARCEL, MONUMENTED BY A BRASS CAP;

THENCE S00°46'43"E, ALONG THE WEST LINE OF M-J-B ROAD AND THE WEST LINE OF TRACT NO. 4 AND 6, TANA FARM INDUSTRIAL PARK, A DISTANCE OF 839.37 FEET TO THE NORTHEAST CORNER OF LOT 1, MIDWAY SUBDIVISION AND THE SOUTHEAST CORNER OF THE PARCEL, MONUMENTED BY A BRASS CAP;

THENCE S88°05'40"W, ALONG THE NORTH LINE OF LOTS 1-3, MIDWAY SUBDIVISION, A DISTANCE OF 462.19 FEET TO THE NORTHWEST CORNER OF LOT 3, MIDWAY SUBDIVISION AND A POINT ON THE EAST LINE OF LOT 4, MIDWAY SUBDIVISION, MONUMENTED BY A BRASS CAP;

THENCE N00°41'03"W, ALONG THE EAST LINE OF SAID LOT 4, MIDWAY SUBDIVISION, A DISTANCE OF 104.92 FEET TO THE NORTHEAST CORNER OF SAID LOT 4, MIDWAY SUBDIVISION, MONUMENTED BY A BRASS CAP;

THENCE S89°18'56"W, ALONG THE NORTH LINE OF SAID LOT 4, MIDWAY SUBDIVISION, A DISTANCE OF 183.38 FEET TO THE NORTHWEST CORNER OF SAID LOT 4, MIDWAY SUBDIVISION, MONUMENTED BY A BRASS CAP;

THENCE S31°06'37"W, ALONG THE WEST LINE OF SAID LOT 4 AND LOT 5, MIDWAY SUBDIVISION, A DISTANCE OF 391.82 FEET TO THE SOUTHWEST CORNER OF SAID LOT 5, MIDWAY SUBDIVISION AND A POINT ON THE NORTH LINE OF MIDWAY ROAD, MONUMENTED BY A BRASS CAP;

THENCE N63°12'47"W, ALONG THE NORTH LINE OF SAID MIDWAY ROAD, A DISTANCE OF 105.93 FEET TO A POINT, MONUMENTED BY A BRASS CAP;

THENCE ALONG A CURVE TO THE LEFT HAVING A RADIUS OF 60.00 FEET, THROUGH A CENTRAL ANGLE OF 249°49'29", AN ARC DISTANCE OF 303.50 FEET, HAVING A CHORD BEARING OF S71°58'09"W, A DISTANCE OF 66.98 FEET TO THE NORTHEAST CORNER OF LOT 12, MIDWAY SUBDIVISION, MONUMENTED BY A BRASS CAP;

THENCE S89°23'23"W, ALONG THE NORTH LINE OF SAID LOT 12, MIDWAY SUBDIVISION, A DISTANCE OF 316.21 FEET TO THE NORTHWEST CORNER OF SAID LOT 12, MIDWAY SUBDIVISION AND A POINT ON THE EAST LINE OF LOT 5 OF SECTION 6, ALSO BEING THE SOUTHWEST CORNER OF THE PARCEL, MONUMENTED BY A BRASS CAP;

THENCE N00°38'18"W, ALONG THE EAST LINE OF SAID LOT 5 OF SECTION 6, A DISTANCE OF 823.25 FEET TO THE POINT OF BEGINNING

THE ABOVE DESCRIBED PARCEL CONTAINS 21.08 ACRES, (918,901.47 S.F.) MORE OR LESS, AND IS SUBJECT TO ALL RIGHTS-OF-WAY AND/OR EASEMENTS, RESERVATIONS AND ENCROACHMENTS WHICH HAVE BEEN LEGALLY ACQUIRED

THE TRACT OF LAND, AS IT APPEARS ON THIS PLAT, IS DEDICATED WITH THE FREE CONSENT AND IN ACCORDANCE WITH THE DESIRES OF THE UNDERSIGNED OWNERS AND PROPRIETORS. THE NAME OF THE SUBDIVISION SHALL BE "MIDWAY SUBDIVISION NO. 2" AND THE OWNERS HEREBY GRANT TO THE PUBLIC AND PRIVATE UTILITY COMPANIES AN EASEMENT AND LICENSE TO LOCATE, CONSTRUCT, USE AND MAINTAIN CONDUITS, LINES, WIRES AND PIPES, ANY OR ALL OF THEM, UNDER AND ALONG THE STRIPS OF LAND MARKED "UTILITY EASEMENT" AS SHOWN ON THIS PLAT. ALL ROADS AND STREETS AS SHOWN HEREON HAVE BEEN PREVIOUSLY DEDICATED TO THE USE OF THE PUBLIC

TETRAL CORPORATION OF CASPER
2012 BARTON DRIVE
CASPER, WYOMING 82604-1890

STEVE LOFTIN - VICE PRESIDENT

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME BY STEVE LOFTIN - VICE PRESIDENT OF TETRAL CORPORATION OF CASPER,
THIS _____ DAY OF _____ 2026

WITNESS MY HAND AND OFFICIAL SEAL

MY COMMISSION EXPIRES _____

_____
NOTARY PUBLIC

APPROVALS

APPROVED BY THE CITY COUNCIL OF MILLS, WYOMING BY RESOLUTION NO _____ DULY PASSED,
ADOPTED AND APPROVED THIS _____ DAY OF _____ 2026

ATTEST _____ _____
CITY CLERK MAYOR

INSPECTED AND APPROVED THIS _____ DAY OF _____ 2026

_____
CITY ENGINEER

INSPECTED AND APPROVED THIS _____ DAY OF _____ 2026

_____
CITY SURVEYOR

INSPECTED AND APPROVED THIS _____ DAY OF _____ 2026

_____
CITY PLANNER

NOTES

1. ERROR OF CLOSURE = EXCEEDS 1:500,000
2. BASIS OF BEARINGS IS THE WYOMING STATE PLANE COORDINATE SYSTEM, EAST CENTRAL ZONE, NAD 1983/2011
3. CONVERGENCE ANGLE AT POINT OF BEGINNING = 00°39'16.69"
   COMBINED FACTOR = 0.99976556
4. ALL DISTANCES ARE GRID
5. ELEVATIONS SHOWN ARE NAVD88 AND ARE FOR REFERENCE ONLY

CERTIFICATE OF SURVEYOR

STATE OF WYOMING }SS
COUNTY OF NATRONA }

I, WILLIAM R. FEHRINGER, A REGISTERED PROFESSIONAL LAND SURVEYOR, LICENSE NO. 3328, DO HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN DURING AN ACTUAL SURVEY MADE UNDER MY DIRECT SUPERVISION IN AUGUST, 2025, AND THAT THIS PLAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, CORRECTLY AND ACCURATELY REPRESENTS SAID SURVEY, ALL BEING TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME BY WILLIAM R. FEHRINGER
THIS _____ DAY OF _____ 2026

WITNESS MY HAND AND OFFICIAL SEAL

MY COMMISSION EXPIRES _____

_____
NOTARY PUBLIC

0 120' 240'
SCALE: 1"=120'

LEGEND

- FOUND MONUMENT AS NOTED
- SET MONUMENT 5/8" REBAR & ALUMINUM CAP

cepi

A VACATION AND REPLAT OF
TRACT B
MIDWAY SUBDIVISION

AS

MIDWAY SUBDIVISION NO. 2

AN ADDITION TO THE CITY OF MILLS, WYOMING
BEING A PORTION OF THE SE1/4NW1/4 OF SECTION 6,
T.33N., R.79W., 6TH P.M.,
NATRONA COUNTY, WYOMING

W.O. 25-187

PAID
OCT 14 2026

CITY OF MILLS
APPLICATION FOR PLAT/REPLAT
Pursuant to the City of Mills Zoning Ordinance

City of Mills, Wyoming
704 4th Street (Physical Address)
P.O. Box 789 (Mailing Address)
Mills, Wyoming 82644

Date: _____
Return by: _____ *(Submittal Deadline)*
For Meeting on: _____

PLEASE PRINT

SINGLE POINT OF CONTACT: Bill Fehringer

APPLICANT/PROPERTY OWNER(S) INFORMATION:
Print Owner Name: Tetral Corporation
Owner Mailing Address: 7072 Barton Dr
City, State, Zip: Casper, WY 82604
Owner Phone: 307-262-7400
Applicant Email: steve@71construction.com

AGENT INFORMATION:
Print Agent Name: CEPI
Agent Mailing Address: 6080 Enterprise Drive
City, State, Zip: Casper, WY 82609
Agent Phone: 307-266-4346
Agent Email: billf@cepi-casper.com

PROPERTY INFORMATION:
Subject property legal description (attach separate page if long legal): Tract B Midway Subdivision
Physical address of subject property if available: _____
Size of lot(s) _____ sq. ft/acres:
Current zoning: Light Industrial Current use: Light Industrial
Intended use of the property: Light Industrial
Zoning within 300 feet: Light Industrial Land use within 300 feet: Light Industrial

ATTACHMENTS (REQUIRED):
1. **Proof of ownership:** Deed (such as deed, title certification, attorney's title opinion)
2. **One (1) full sized copy of the plat/replat:** _____
3. **One reproducible 11 x 17 plat/replat hard copy:** _____
4. **One plat/replat electronic copy (pdf):** _____

RIGHT-OF-WAY / EASEMENT INFORMATION:
Right-of-Way / Easement Location: N/A
(Example: along west property line, running north & south)
Width of Existing Right-of-Way / Easement: _____ Number of Feet to be Vacated: _____
Please indicate the purpose for which the Right-of-Way / Easement is to be vacated / Abandoned

SIGNATURE(S):
The following owner's signature signifies that all information on this application is accurate and correct to the best of the owner's knowledge; and that the owner has thoroughly read and understands all application information and requirements. [In addition to the owner's signature(s), if an agent of the owner is also to be notified and/or contacted for all communications relating to this application, please have the agent sign below.]

I (We) the undersigned owner(s) of the property described above do hereby make application to the City of Mills as follows:

_____

_____

OWNER Signature TETRAL CORP. Steve Loftus V-PRES **OWNER** Signature _____

AGENT Signature _____

FEES (Plat/Replat): $10.00 per lot ($250.00 minimum and a $1,000.00 maximum), **plus $150.00 recording fee.**

For Office Use Only: Signature verified:_____Proof of ownership provided:_____Fee Paid: $_____

856935
NATRONA COUNTY CLERK, WYOMING
Renea Vitto
JF
Dec 10, 2008 01:18:49 PM
Pages: 6
Fee: $23.00
SANDY CARDENAS

WARRANTY DEED

JOHNSTON DEVELOPMENT COMPANY, a partnership, grantor, of Natrona County, and State of Wyoming, for and in consideration of TEN DOLLARS ($10.00) and other good and valuable consideration in hand paid, receipt whereof is hereby acknowledged, CONVEYS AND WARRANTS TO TETRAL CORPORATION, a Wyoming corporation, grantee, of P. O. Box 4600, Casper, Natrona County, and State of Wyoming, the following described real estate, situate in Natrona County and State of Wyoming, hereby releasing and waiving all rights under and by virtue of the homestead exemption laws of the State, to-wit:

A Parcel located in and being portions of Lot 2 (NW1/4NE1/4), Lot 3 (NE1/4NW1/4), Lot 4 (NW1/4NW1/4), Section 6, Township 33 North, Range 79 West and portions of Lot 1 (NE1/4NE1/4), and SE1/4NE1/4, Section 1, Township 33 North, Range 80 West of the Sixth Principal Meridian, Natrona County, Wyoming, and being more particularly described by metes and bounds as follows:

Beginning at the northeasterly corner of the Parcel being described and also the northeasterly corner of said Lot 2 (NW1/4NE1/4), Section 6; thence along the easterly line of said Parcel and Lot 2 (NW1/4NE1/4), Section 6, S.0°16'W., 1286.01 feet to the southeasterly corner of said Parcel and Lot 2 (NW1/4NE1/4), Section 6; thence along the southerly line of said Parcel and Lot 2 (NW1/4NE1/4), Section 6, S.88°53'W., 1313.22 feet to a point and southeasterly corner of said Lot 3 (NE1/4NW1/4), Section 6; thence continuing along the southerly line of said Parcel and the southerly line of said Lot 3 (NE1/4NW1/4), Section 6, S.88°53'W., 1324.83 feet to a point and southeasterly corner of said Lot 4 (NW1/4NW1/4), Section 6; thence continuing along the southerly line of said Parcel and the southerly line of said Lot 4 (NW1/4NW1/4), Section 6, S.88°54'W., 1278.17 feet to a point and northeasterly corner of said SE1/4NE1/4, Section 1; thence along the easterly line of said Parcel and SE1/4NE1/4, Section 1, S.0°18'W., 697.15 feet to the most southerly corner of said Parcel and a point in and intersection with the northeasterly right-of-way line of the Burlington Northern Railroad; thence along the southwesterly line of said Parcel and the northeasterly right-of-way line of said Railroad, N.40°05'W., 1960.95 feet to the northwesterly corner of said Parcel and a point in and intersection with the southerly right-of-way line of U.S. Highway Nos. 20 & 26; thence along the northerly line of said Parcel and the southerly right-of-way line of said Highway, N. 89°30'E., 567.19 feet to a point of curve; thence along the arc of a true curve to the left, having a radius of 5929.58 feet and through a central angle of 9°24', northeasterly, 972.81 feet to a point of tangency; thence continuing along the northerly line of said Parcel and the southerly right-of-way line of said Highway, N.80°06'E., 2366.28 feet to a point in and intersection with the westerly line of said Lot 2 (NW1/4NE1/4), Section 6; thence along the westerly line of said Lot 2 (NW1/4NE1/4), Section 6 and said highway right-of-way line, N.0°08'W., 42.41 feet to the northwesterly corner of said Lot 2 (NW1/4NE1/4), Section 6; thence continuing along the northerly line of said Parcel and Lot 2 (NW1/4NE1/4), Section 6 and the southerly right-of-way line of said Highway, N.89°17'E., 1322.04 feet to the Point of Beginning and containing 124.0 acres, more or less, as set forth by the plat attached and made a part hereof and EXCEPTING therefrom that certain pipeline right-of-way recorded in the office of the County Clerk of Natrona County, Wyoming in Book 40 of Deeds at Page

11 and containing 1.2 acres, more or less, and also EXCEPTING therefrom that certain highway right-of-way identified as 66 feet wide Salt Creek Highway as described in Natrona County Road Records and containing 2.0 acres, more or less, leaving a net acreage of 120.8 acres for the Parcel being described.

Said Parcel being subject to any and all reservations, easements and right-of-way of record or as may otherwise exist and more particularly a 20 feet wide access and roadway easement along and adjacent to the southerly lines of Lot 2 (NW1/4NE1/4) and Lot 3 (NE1/4NW1/4), Section 6 bounded on the east by Salt Creek Highway and on the west by the westerly line of said Lot 3 (NE1/4NW1/4), Section 6 and as shown on the plat attached.

Subject to reservations and restrictions of record, including prior mineral reservations.

Witness my hand this 25 day of November, 1998.

JOHNSTSON DEVELOPMENT COMPANY

By Roy N. Johnston
Roy N. Johnston
Partner

By Barbara C. Johnston
Barbara C. Johnston
Partner

By Carol Johnston Fearon
Carol Johnston Fearon
Partner

STATE OF CALIFORNIA)
) ss.
COUNTY OF _____)

The foregoing instrument was acknowledged before me by Roy N. Johnston this ~~30th~~ day of November, 1998.

Witness my hand and official seal.

NOTARY PUBLIC

My Commission Expires:

My Commission Expires September 19, 2000

STATE OF COLORADO)
) ss.
COUNTY OF Denver)

The foregoing instrument was acknowledged before me by Barbara C. Johnston this 30th day of November, 1998.

Witness my hand and official seal.

NOTARY PUBLIC

My Commission Expires:
My Commission Expires September 19, 2000

STATE OF NEW YORK)
) ss.
COUNTY OF SENECA)

The foregoing instrument was acknowledged before me by ~~Roy H.~~ Carol C. Johnston Fearon this 3rd day of DECEMBER, 1998.

Witness my hand and official seal.

NOTARY PUBLIC

My Commission Expires:

5/31/2000

KATHLEEN A. COOPER
Notary Public in the State of New York
Seneca County Clerks No. 994
Commission Expires May 31, ~~19~~ 2000

STATE OF CALIFORNIA)
) ss:
COUNTY OF SONOMA)

On this 25th day of November, 1998, before me, Brian D. Rondon, personally appeared Roy N. Johnston, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY PUBLIC, State of California

MGC1 Brian D. Rondon Comm. #1093312 NOTARY PUBLIC - CALIFORNIA SONOMA COUNTY Comm. Exp. March 31, 2000 MGC1

WORTHINGTON, LENHART & CARPENTER, INC.
200 PRONGHORN STREET, CASPER, WYOMING 82601

Client JOHNSTON DEVELOPMENT CO. Address 1814 EAST 2ND STREET

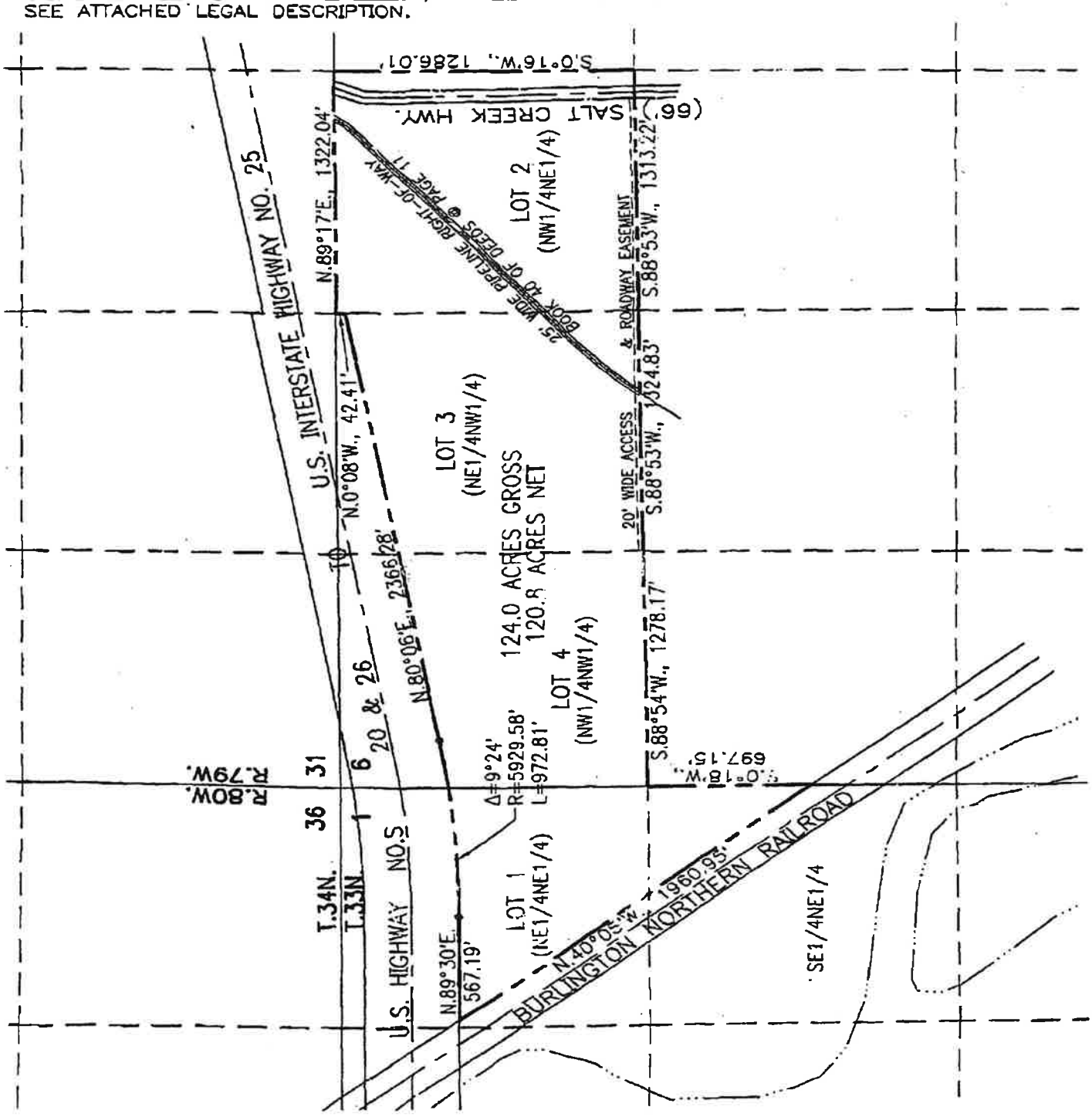
City CASPER State WYOMING Zip 82601

PROPERTY LOCATION PLAT

City CASPER County NATRONA State WYOMNG

NW1/4NE1/4 Section 6, T. 33 N., R. 79 W., 6th Principal Meridian, Wyoming
N1/2NW1/4 Section 6, T. 33 N., R. 79 W., 6th Principal Meridian, Wyoming
E1/2NE1/4 Section 1, T. 33 N., R. 80 W., 6th Principal Meridian, Wyoming

SEE ATTACHED LEGAL DESCRIPTION.



Scale 1"=600'
Date 10-13-98
W.O. No. 9873
RECORDS
Acad Dwg.: JONES

A PARCEL LOCATED IN AND BEING PORTIONS OF LOT 2 (NW¼NE¼), LOT 3 (NE¼NW¼), LOT 4 (NW¼NW¼), SECTION 6, TOWNSHIP 33 NORTH, RANGE 79 WEST AND PORTIONS OF LOT 1 (NE¼NE¼), AND SE¼NE¼, SECTION 1, TOWNSHIP 33 NORTH, RANGE 80 WEST OF THE SIXTH PRINCIPAL MERIDIAN, NATRONA COUNTY, WYOMING, AND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING AT THE NORTHEASTERLY CORNER OF THE PARCEL BEING DESCRIBED AND ALSO THE NORTHEASTERLY CORNER OF SAID LOT 2 (NW¼NE¼), SECTION 6; THENCE ALONG THE EASTERLY LINE OF SAID PARCEL AND LOT 2 (NW¼NE¼), SECTION 6, S.0°16'W., 1286.01 FEET TO THE SOUTHEASTERLY CORNER OF SAID PARCEL AND LOT 2 (NW¼NE¼), SECTION 6; THENCE ALONG THE SOUTHERLY LINE OF SAID PARCEL AND LOT 2 (NW¼NE¼), SECTION 6, S.88°53'W., 1313.22 FEET TO A POINT AND SOUTHEASTERLY CORNER OF SAID LOT 3 (NE¼NW¼), SECTION 6; THENCE CONTINUING ALONG THE SOUTHERLY LINE OF SAID PARCEL AND THE SOUTHERLY LINE OF SAID LOT 3 (NE¼NW¼), SECTION 6, S.88°53'W., 1324.83 FEET TO A POINT AND SOUTHEASTERLY CORNER OF SAID LOT 4 (NW¼NW¼), SECTION 6; THENCE CONTINUING ALONG THE SOUTHERLY LINE OF SAID PARCEL AND THE SOUTHERLY LINE OF SAID LOT 4 (NW¼NW¼), SECTION 6, S.88°54'W., 1278.17 FEET TO A POINT AND NORTHEASTERLY CORNER OF SAID SE¼NE¼, SECTION 1; THENCE ALONG THE EASTERLY LINE OF SAID PARCEL AND SE¼NE¼, SECTION 1, S.0°18'W., 697.15 FEET TO THE MOST SOUTHERLY CORNER OF SAID PARCEL AND A POINT IN AND INTERSECTION WITH THE NORTHEASTERLY RIGHT-OF-WAY LINE OF THE BURLINGTON NORTHERN RAILROAD; THENCE ALONG THE SOUTHWESTERLY LINE OF SAID PARCEL AND THE NORTHEASTERLY RIGHT-OF-WAY LINE OF SAID RAILROAD, N.40°05'W., 1960.95 FEET TO THE NORTHWESTERLY CORNER OF SAID PARCEL AND A POINT IN AND INTERSECTION WITH THE SOUTHERLY RIGHT-OF-WAY LINE OF U.S. HIGHWAY NOS. 20 & 26; THENCE ALONG THE NORTHERLY LINE OF SAID PARCEL AND THE SOUTHERLY RIGHT-OF-WAY LINE OF SAID HIGHWAY, N.89°30'E., 567.19 FEET TO A POINT OF CURVE; THENCE ALONG THE ARC OF A TRUE CURVE TO THE LEFT, HAVING A RADIUS OF 5929.58 FEET AND THROUGH A CENTRAL ANGLE OF 9°24', NORTHEASTERLY, 972.81 FEET TO A POINT OF TANGENCY; THENCE CONTINUING ALONG THE NORTHERLY LINE OF SAID PARCEL AND THE SOUTHERLY RIGHT-OF-WAY LINE OF SAID HIGHWAY, N.80°06'E., 2366.28 FEET TO A POINT IN AND INTERSECTION WITH THE WESTERLY LINE OF SAID LOT 2 (NW¼NE¼), SECTION 6; THENCE ALONG THE WESTERLY LINE OF SAID LOT 2 (NW¼NE¼), SECTION 6 AND SAID HIGHWAY RIGHT-OF-WAY LINE, N.0°08'W., 42.41 FEET TO THE NORTHWESTERLY CORNER OF SAID LOT 2 (NW¼NE¼), SECTION 6; THENCE CONTINUING ALONG THE NORTHERLY LINE OF SAID PARCEL AND LOT 2 (NW¼NE¼), SECTION 6 AND THE SOUTHERLY RIGHT-OF-WAY LINE OF SAID HIGHWAY, N.89°17'E., 1322.04 FEET TO THE POINT OF BEGINNING.
EXCEPTING THEREFROM THAT CERTAIN LAND DESCRIBED IN BOOK 40 OF DEEDS, PAGE 11 **AND ALSO EXCEPTING THEREFROM** THAT CERTAIN LAND IN THE HIGHWAY RIGHT-OF-WAY IDENTIFIED AS 66 FEET WIDE SALT CREEK HIGHWAY.

CITY OF MILLS – PLANNING DEPT.

Wyoming Classical Academy Expansion



Development Plan Review – Untabling
Findings and Considerations

CITY OF MILLS — PLANNING DEPARTMENT
Staff Report to the Planning & Zoning Commission

Wyoming Classical Academy Phase II Development Plan

6389 Poison Spider Lane | Meeting of Thursday, November 5, 2026 | Returned from tabling, October 8, 2026

Item	Detail
Applicant / Owner	Wyoming Classical Academy (Wyoming Classical Foundation); GRHH Performance Mills LLC et al.
Representatives	Silverpeak Engineering (civil); CEPI (landscape); Alder Electric (electrical); ECS Engineers (drainage); Hales Engineering (traffic)
Location	6389 Poison Spider Lane, Mills, WY 82604
Zoning	UA – Urban Agriculture
Site area	20.52 acres (C200)
Application	Development Plan, Review Process 3 (Title 17 §10.40)
Commission action	Recommendation to City Council
Staff recommendation	Recommend approval to City Council, subject to Conditions 1 and 2
Prepared by	Casey Coates, Planning, City of Mills

1. Request

Wyoming Classical Academy (WCA) requests Development Plan approval for Phase II of its charter school campus at 6389 Poison Spider Lane. Phase II expands the school from grades K–9 to K–12. Development Plan review is required under Title 17 §10.40(3)(j) (public or private schools) and §10.40(3)(k) (creation or enlargement of off-street parking lots). The building addition also exceeds the 5,000 sq. ft. threshold in §10.40(1).

The Commission tabled the application on October 8, 2026 and asked for additional information on 26 items (Notice of Tabling, October 9, 2026). The Applicant resubmitted on October 23, 2026. This report evaluates the full record and the resubmittal against Title 17 and returns the item to the Commission for a recommendation.

2. Review Process and Authority

A Development Plan is an elevated site plan review for larger developments and is processed as Review Process 3 (§10.40(1); Table 10.10-1). The Planning & Zoning Commission holds the hearing and makes a recommendation. City Council makes the final decision and may require modifications and attach conditions (§10.40(8)).

Development Plan Agreement. Approval requires a Development Plan Agreement (DPA) executed by City Council and the Applicant (§10.40(8)(a)). Proportionate-share contributions to off-site traffic controls are set by Council and recorded in the DPA (§10.40(7)(f)). The DPA is a Council and staff instrument. It is outside the Commission's purview. The Commission does not levy conditions through the DPA, and staff's findings in this report do not rely on it.

3. Project Description

Phase II improvements shown on the final plan set (Silverpeak, October 22–23, 2026) include:

- **Building addition:** about 16,384 sq. ft. footprint, two stories, attached to the west side of the existing school. Height is 38 ft. (A201). The addition adds 17 high school classrooms.
- **Enrollment:** 410 students today, growing to 650 at full build-out (Hales TIS).
- **Parking:** a new 138-stall lot north of the addition, with 5 accessible stalls and 10 ft. × 21.5 ft. stalls. Campus total is 234 stalls (C200, C201).
- **Circulation:** a 26-ft. drive lane along the west side and a 24-ft. drive lane south of the addition. The south lane loops to the existing hard-surface play area, which serves as the fire lane. Stacking lanes for a double-stacked car line are shown on the Traffic Circulation Plan (C202).
- **Poison Spider Lane frontage:** 7 ft. of widening, curb and gutter, a 5-ft. park strip, and curb cuts to the existing drainage swale (C500).
- **Drainage:** expanded detention along Poison Spider Lane of +7,320 cu. ft., tied to the existing 36-in. HDPE culvert system (C300, C301; ECS letter, October 23, 2026).
- **Landscaping:** 23 trees, 26 shrubs, and 30 ornamental grasses in the parking islands, the perimeter strip, and the building frontage. Rock mulch, native seed, and sod are used as ground cover (L1.0).
- **Lighting:** 15-ft. poles with LED area fixtures at 17 ft. above grade, house-side shields on the north and west, building-mounted fixtures, and court lighting at the new asphalt play area (E101, E102, E501).
- **Fire protection and utilities:** two fire hydrants and an 8-in. fire line, consistent with the Fire Chief's and City engineering requirements (C400, C401).

Future phases (not part of this approval). The plans also show a gymnasium/cafeteria/auditorium, track and football field, bleachers, concessions and restrooms, pickleball and tennis courts, playgrounds, trails, and retaining walls. These are labeled "future" and need separate City approval (Condition 2).

4. Review History

Date	Action
8/21/2026	Site Review 1 comments issued
8/28/2026	Applicant response and revised civil sheets
9/28/2026	Review comments, including ten lighting comments
10/2/2026	Review 3 response. Parking, fire protection, fire access, and submittal clean-up brought into compliance
10/8/2026	P&Z Commission tabled the application
10/9/2026	Notice of Tabling issued with 26 items; resubmittal due 10/22/2026 at 5:00 p.m.
10/23/2026	Applicant resubmittal: response letter, final plan set, ECS drainage letter, lighting cut sheets

The resubmittal is dated October 23, one day after the deadline in the Notice of Tabling. Staff reviewed it in full, and it is reflected in this report.

5. Documents Reviewed

Document	Prepared by / date
Final plan set: C001–C701, L1.0, A101/A201 series, E001–E602	Silverpeak / CEPI / Alder Electric; 10/22–10/23/2026
Site Review P&Z Response (26 items)	Silverpeak; 10/23/2026
Phase II Site Drainage letter with hydrology and exhibits	ECS Engineers; 10/23/2026
Exterior luminaire cut sheets (A1, A2, A3, WP1, WS, EX9)	Lithonia / Keystone
Traffic Impact Study, sealed by a Wyoming PE	Hales Engineering; 9/25/2026
Water supply analysis and fire flow test	Protection Consultants, Inc.
Staff report (10/8/2026) and Notice of Tabling (10/9/2026)	City of Mills
Title 17 – Land Development Regulations	City of Mills

6. Title 17 Compliance Summary

Standard	Requirement	Proposed / finding	Status
Use – UA chart	School, public or private: permitted; DP required (§10.40(3)(j))	Expansion of existing school	Complies
Lot size – UA chart	20 acres minimum	20.52 ac; development is on singularly owned property; replat timing to the DPA	Council / DPA
Setbacks – UA, note 3	50 ft. front/side/rear (over 50 students)	Addition within 50-ft. setbacks (C200)	Complies
Height – UA chart	100 ft. maximum	38 ft.	Complies
Lot coverage – UA chart	35% maximum	About 5% (40,358 sq. ft. building footprint)	Complies
Parking – Table 40.10-1	202 stalls (13 elem. × 2 + 10 jr. high × 4 + 17 high school × 8)	234 stalls	Complies
Stall size, aisles – §40.10(3)	10 × 21.5 ft. with curb stops; 25-ft. two-way aisles	10 × 21.5 ft.; 25-ft. aisles	Complies
Accessible parking – §40.10(4)	5 stalls for 101–150 stall lot, 1 van	5 in new lot; existing lot meets its own count	Complies
Traffic study – §10.40(7)(f)	Required above 75 peak-hour trips	Hales TIS, sealed; 160 AM / 96 PM new trips	Complies
Off-site share – §10.40(7)(f)	Set by Council, recorded in DPA	Council matter	Council / DPA
Circulation – §10.40(5)(b)	Safe, functional access and circulation	Double-stack lanes on C202; traffic flow plan to DPA	Condition
Drainage – §10.40(7)(e), (2)(g)	Show surface drainage and effect on abutting property	Accepted by City Engineer	Complies
Landscape plan – §40.40(3), (4)	Planting plan, calculations, existing vegetation	L1.0; site tabulation on C200; no existing landscape retained	Complies
Parking islands – §40.40(7)(d)	1 per 20 consecutive spaces; 1 tree + 1 shrub each	Rows break at 16 spaces or fewer; each island planted	Complies
Perimeter strip – §40.40(7)(e)	5-ft. strip between parking and ROW	Provided and planted	Complies
Inorganic cover – §40.40(7)(b)	60% maximum	About 34%	Complies

Standard	Requirement	Proposed / finding	Status
Irrigation – §40.40(7)(h)	Planted areas provided with irrigation	Committed by L1.0 Note 4	Complies
Lighting controls – §40.35(3)(a)	Timers, sensors, or photocells	Astronomic time clock	Complies
Light trespass – §40.35(3)(d)	0.2 fc max, 5 ft. outside property line	0.08 fc max	Complies
Within 150 ft. of residential – §40.35(5)	15-ft. pole; 17 ft. max above grade; shielded	15-ft. poles; 17 ft. AG; house-side shields	Complies
Lighting plan – §40.35(4)(a)	Fixtures, cut sheets, heights, shielding, narrative	All provided	Complies
Fire protection	Hydrant coverage for 1,700 gpm	Two hydrants; 8-in. line	Complies
Pipeline crossings	Operator coordination	Resolved by staff with Silverpeak and ECS	Complies
Future athletic facilities	Recreation Facility, Review Process 3	Labeled future; separate approval	Future phase

7. Staff Analysis

7.1 Zoning, Lot, and Plat

A school is a permitted use in the UA district, and the addition meets the UA setback, height, and lot coverage standards. Sheet C200 shows 20.52 acres, which meets the 20-acre UA minimum. The Applicant has explained that the replat follows site plan approval and the financing and land closing. Because the development occurs on singularly owned property, the timing of the replat goes to the Development Plan Agreement and is not a Commission condition.

7.2 Parking and Accessibility

Using the Applicant's classroom counts, 202 stalls are required: 13 elementary classrooms × 2, 10 junior high × 4, and 17 high school × 8. The plan provides 234. Stall dimensions, aisle widths, and accessible stalls were brought into compliance in Review 3, and the Notice of Tabling confirmed they need no further response. A future gymnasium or auditorium will trigger additional parking, which will be reviewed with that application.

7.3 Traffic and On-Site Circulation

The Hales Engineering TIS projects 160 new AM and 96 new PM peak-hour trips, above the 75-trip threshold in §10.40(7)(f). All study intersections operate at LOS D or better in the 2026 and 2031 scenarios, with and without the project. The study identifies the planned signal at Poison Spider Lane / Robertson Road as the mitigation for the 2031 northbound queue. The proportionate share toward that signal is set by Council in the DPA (§10.40(7)(f)).

On site, the TIS finds about 2,100 ft. of stacking when the car line is double-stacked. Its VISSIM model at 610 students with a single dismissal produced a 95th-percentile queue of about 2,130 ft. The study expects staggered start and dismissal times, together with double-stacking, to keep the queue on site. The stacking lanes are shown on Sheet C202, and the central access is designated for parking-lot access.

WCA has agreed to a double-stacked car line once student population reaches 550. Staff finds this acceptable together with the Hales TIS and the need to keep loading and unloading safe. The Applicant asked that the operating commitments in Items 22 through 24 be placed in the DPA. Consistent with that, Condition 1 provides

that the school traffic flow plan is subject to the DPA. The plan is to be established in conjunction with school population and developed as a joint effort among the Mills Police Department, Public Works, and school staff.

7.4 Drainage

Section 10.40(7)(e) requires a drainage plan that shows surface drainage and its effect on the site and on abutting public and private property. The Commission asked for ditch and culvert capacity, swale storage, downstream impacts, the change in drainage area, pond routing, and an indexed drainage map (Items 1–6).

The ECS letter (October 23, 2026) models the 6.57-acre Phase II catchment and calls for 6,675 cu. ft. of detention. It recommends using the 737 cu. ft. remaining in the Poison Spider Lane pond plus 5,938 cu. ft. of new detention on site. The plan set provides +7,320 cu. ft. of expanded detention along Poison Spider Lane, which is more than recommended. The former 24-in. culvert has been replaced with 36-in. HDPE, with a capacity of 122.6 cfs against a 100-year peak of 97.4 cfs at the swale. Post-detention flows continue through existing infrastructure to the Platte View Estates pond.

The City Engineer has accepted the drainage material in the plan set, using the detailed elevations as the basis for approval. The City Engineer also cited the additional detention along Poison Spider Lane as a factor in reducing off-site impact through staged storage. Staff finds Items 1–6 resolved and the requirements of §10.40(7)(e) and §10.40(2)(g) met.

7.5 Landscaping

Section 40.40(4) describes the Landscape Plan as "not necessarily a construction document." It must be complete enough to show the design and to be enforced. Revised Sheet L1.0 provides the planting plan with the location, size, and botanical and common name of each plant, the ground covers, and the plant schedule. Every parking island has at least one tree and one shrub (§40.40(7)(d)(ii)). The parking rows are broken at 16 spaces or fewer. The 5-ft. perimeter strip along Poison Spider Lane is planted with a row of shade trees (§40.40(7)(e)). Rock mulch is about 34% of the landscaped area, under the 60% limit in §40.40(7)(b). No existing landscape is retained or credited (§40.40(4)(d); §10.40(6)).

Irrigation (Item 10). The Commission asked to see irrigation mapped on the drawings. Section 40.40(7)(h) requires that all planted areas be provided with irrigation systems. It is an installation standard. The contents of a Landscape Plan listed in §40.40(4) do not include an irrigation layout, and where Title 17 requires an irrigation plan, it says so (for example, §45.45). L1.0 Note 4 commits to an irrigation system designed and installed to serve the plantings, with as-built drawings submitted on completion. Staff finds that this meets Title 17 at the development plan stage. Irrigation will be verified at installation.

Requests for a statement on planting over the gas lines and for planting in the right-of-way park strip also go beyond what Title 17 requires of a Landscape Plan. Note 8 on L1.0 keeps plantings 5 ft. from underground utilities during construction, and §40.40(7)(i) makes the owner responsible for maintaining the adjacent right-of-way.

7.6 Exterior Lighting

Section 40.35(2)(a) requires a lighting plan for multi-family, commercial, and industrial development and does not name schools. The October 8 report applied §40.35 to the parking lot and play area through §40.35(2)(b) and §10.40(8), and the Applicant has submitted a full lighting plan. That plan meets §40.35:

- Light trespass: the photometric grid extends 5 ft. past the north and west property lines, the residential sides. The maximum there is 0.08 fc, below the 0.2 fc limit (§40.35(3)(d)).
- Height near residential: all poles are 15 ft., with fixtures at 17 ft. above grade (E501, E101, E602), which meets §40.35(5)(a).
- Shielding: manufacturer house-side shields are specified on the north and west fixtures (§40.35(5)(b)).
- Controls: astronomic time-clock control from the lighting control panel (§40.35(3)(a)).
- Plan contents: fixture types and output (E501), cut sheets, locations and mounting heights (E101), and a narrative were provided (§40.35(4)(a)).
- Play area: the A3 court fixtures are included in the plan and calculations. Light from the court stays on site.

Staff finds Items 12 through 21 resolved.

7.7 Fire Protection and Utilities

The Review 3 response satisfied the Fire Chief's requirements: two hydrants, an 8-in. fire line, and a striped and unobstructed fire lane through the existing hard-surface play area. The Notice of Tabling confirmed these need no further response. Fire sprinkler and fire alarm drawings are deferred submittals for building permit.

7.8 Pipeline Crossings

Sinclair gas pipelines cross the site under existing and proposed parking, and a Black Hills Energy line runs along the west side. Pipeline matters have been resolved with staff in conjunction with Silverpeak Engineering and ECS Engineers (Item 25).

7.9 Pedestrian Facilities

New 5-ft., 6-ft., and 10-ft. concrete sidewalks connect the new parking lot to the addition and the existing campus sidewalks, with a marked crossing at the central drive (C201). The Poison Spider Lane frontage package (widening, curb and gutter, park strip) was accepted in the October 8 review. Staff finds the pedestrian facilities adequate under §10.40(5)(b).

7.10 Disposition of Tabling Items

All 26 items in the Notice of Tabling are resolved for the Commission's purposes. Twenty-two are resolved, including the six drainage items closed by City Engineer acceptance. Items 22, 24, and 26 are Council/DPA matters, and Item 23 is accepted by staff. The item-by-item disposition is in Attachment A.

8. Findings — Approval Criteria

Criterion	Staff finding	Status
§10.40(5)(a) Compatible with goals and policies of adopted plans	A school is a permitted use in UA. The project meets the UA dimensional standards. The off-site signal share is a Council matter under §10.40(7)(f) and is not relied on here.	Met
§10.40(5)(b) Efficient use of land: building arrangement, access, parking and circulation, pedestrian facilities	The addition, parking, and loop drive are logically arranged. Parking exceeds requirements, fire access is resolved, and sidewalks connect parking to the building. The double-stack car line is shown on C202, and the school traffic flow plan goes to the DPA (Condition 1).	Met with condition
§10.40(5)(c) Provides landscaping	Islands, perimeter strip, and building frontage are planted. Inorganic cover is under 60%. Irrigation is committed by plan note.	Met

Criterion	Staff finding	Status
§10.40(6) Preserve existing landscape features	No existing landscape features are on the Phase II area.	Met
§10.40(2)(g) Stormwater impacts	Accepted by City Engineer. Detention provided exceeds detention required, and staged storage reduces off-site impact.	Met
§10.40(2)(g) Traffic impacts	Sealed TIS. All intersections at LOS D or better. The off-site share is a Council/DPA matter.	Met
§10.40(2)(g) Water supply and wastewater	Fire flow analysis and two-hydrant layout satisfied in Review 3. Utility service is shown on C400/C401.	Met

9. Conditions of Approval

Staff recommends the following conditions. Condition 1 only records that the school traffic flow plan goes to the DPA, a Council and staff instrument. The Commission sets none of its terms.

1. **School traffic flow plan.** The school traffic flow plan shall be subject to the Development Plan Agreement. It covers car line operation, including the double-stacked car line at 550 students, and use of the central access for parking during pick-up and drop-off. The plan shall be established in conjunction with school population and developed as a joint effort among the Mills Police Department, Public Works, and school staff.
2. **Future phases.** This approval does not include the gymnasium/cafeteria/auditorium, track, football field, bleachers, concessions/restrooms, pickleball and tennis courts, playgrounds, trails, or retaining walls labeled "future." Each requires separate City approval. The Recreation Facility use is Review Process 3 in the UA district.

For Council and staff (informational, not Commission conditions): the proportionate share toward the Poison Spider Lane / Robertson Road signal (§10.40(7)(f)); replat timing, since development occurs on singularly owned property; and the operating commitments the Applicant has asked to place in the DPA (§10.40(8)(a)).

10. Staff Recommendation

Staff finds that the Wyoming Classical Academy Phase II Development Plan satisfies the approval criteria of Title 17 §10.40(5) and the objectives of §10.40(2), subject to Conditions 1 and 2. Staff recommends that the Planning & Zoning Commission forward a recommendation of approval to City Council.

Suggested Motion

"I move that the Planning & Zoning Commission recommend that City Council approve the Wyoming Classical Academy Phase II Development Plan at 6389 Poison Spider Lane, based on the findings in the staff report and subject to Conditions 1 and 2 as listed in the staff report."

Alternative motions:

- Recommend approval with modified conditions.
- Continue the item and state what additional information is needed.
- Recommend denial and state the findings for denial.

Attachment A — Disposition of Notice of Tabling Items

#	Item	Disposition	Status
1	Ditch and culvert capacity	36-in. HDPE culvert at 122.6 cfs vs. 97.4 cfs 100-yr peak; ditch 433.1 cfs. Accepted by City Engineer.	Resolved – City Engineer
2	Swale storage	6,675 cf required; +7,320 cf provided along Poison Spider Ln. Accepted by City Engineer.	Resolved – City Engineer
3	Downstream impacts	Post-detention flow to Platte View Estates pond through existing system. Accepted by City Engineer.	Resolved – City Engineer
4	Drainage area change	Study rebuilt on the 6.57-ac Phase II catchment. Accepted by City Engineer.	Resolved – City Engineer
5	Pond routing	Separate pre (CN 76) and post (CN 87) inputs; 16-in. restriction no longer proposed. Accepted by City Engineer.	Resolved – City Engineer
6	Indexed drainage map	City Engineer accepted the C300/C301 elevations as the basis for approval.	Resolved – City Engineer
7	Updated landscape plan	L1.0 meets §40.40(4).	Resolved
8	Island planting	Tree and shrub in every island, with species, size, and quantity (§40.40(7)(d)(ii)); gas lines shown.	Resolved
9	Park strip planting	5-ft. perimeter strip planted (§40.40(7)(e)); ROW planting not required.	Resolved
10	Irrigation	Irrigation committed by L1.0 Note 4 (§40.40(7)(h)); layout not required at DP stage.	Resolved
11	Existing vegetation	None retained or credited.	Resolved
12	Lighting layout	Fixture locations, heights, shielding, and aiming shown (E101).	Resolved
13	Photometric grid	Extended 5 ft. past north and west lines; 0.08 fc max.	Resolved
14	All fixtures in calculations	Included (E102).	Resolved
15	Pole and base heights	15-ft. poles; 17 ft. AG (E501, E602).	Resolved
16	House-side shielding	Specified on north and west fixtures (E101).	Resolved
17	Controls	Astronomic time clock (§40.35(3)(a)).	Resolved
18	Cut sheets	Provided for all exterior fixtures.	Resolved
19	Narrative	Provided (§40.35(4)(a)(v)).	Resolved
20	A3 play-area fixtures	Included in plan and calculations; light stays on site.	Resolved
21	Calculation summary	Provided (E102).	Resolved
22	Staggered start and dismissal	Part of the school traffic flow plan under the DPA (Condition 1).	Council / DPA
23	Double-stacked car line	Double-stack at 550 students; accepted by staff with the Hales TIS.	Accepted by staff
24	Traffic signal cost share	Set by Council in the DPA (§10.40(7)(f)).	Council / DPA
25	Pipeline operator consent	Resolved with staff in conjunction with Silverpeak and ECS.	Resolved
26	Replat	Development occurs on singularly owned property; replat timing to the DPA.	Council / DPA

SILVERPEAK ENGINEERING

STRUCTURAL CIVIL SURVEY

To: City of Mills
Attn: Casey Coates
Re: Wyoming Classical Academy Site Review
Location: 6389 Poison Spider Ln., Mills, WY 82604

Dear Casey,

Based on the review received dated 10/9/2026, the following changes have been made to the above-mentioned drawings. You will find an itemized list which addresses each comment individually. You will find the original comments followed by our response in bold.

Drainage and grading

The CEPI Drainage Study (10/2/2026) shows flow to the Poison Spider swale rising from 6.3 to 11.3 cfs in the 10-year storm and from 13.6 to 26.9 cfs in the 100-year storm. The Commission wants to see that the ditch, the culvert, and the neighboring properties can take that increase.

1. Ditch and culvert capacity: Capacity calculations for the Poison Spider ditch and the 24-in. culvert at the developed 10-year and 100-year flows.
1 Response: The 24" culvert has now been upgraded to a 36" HDPE culvert as part of the construction of the Ridge West subdivision. Capacities and flows for this ditch are discussed in the attached report.

2. Swale storage: A resolution of the study's own storage check, which requires 7,751 cu ft against 2,420 cu ft available, or a showing of how the excess is safely conveyed.
2 Response: Latest designs and stormwater modeling show 6,675 cubic feet of required detention for Phase II of development. Although 7,017 cubic feet area available on the site, 6,280 cubic feet are in the detention pond on the west side of the site, and may be difficult to route stormwater runoff to. ECS Engineers recommends adding constructing 5,938 additional cubic feet of detention on the site for Phase II of development.

3. Drainage impacts to surrounding properties: An analysis of where the increased flow goes after it leaves the site and its effect on adjacent and downstream properties, with any mitigation needed.
3 Response: Drainage leaving the school site will be discharged at post-detention rates via the 36" HDPE culvert, and directed through existing stormwater infrastructure to the Platte View Estates detention pond. As discussed in the attached report, this infrastructure has adequate capacity.

4. Drainage area to the ditch: An explanation of the change in area draining to the ditch from 18.62 to 9.67 acres, supported by the map in item 6.
4 Response: The plan for the entire area has been revised and updated with the revised report and plans.

5. Pond routing: Routing that uses developed-condition inputs reflecting the Phase II area. The existing and developed inputs are currently identical (10.33 ac at C = 0.25). Show freeboard and the outlet with the 16-in. restriction removed.
5 Response: The plan for the entire area has been revised and updated with the revised report and plans.

6. Indexed drainage and grading map: One exhibit that ties the drawings to the calculations: each basin labeled and keyed to the study with its acreage and runoff coefficient, flow arrows, design points, existing and proposed grades, the ditch, culvert, curb cuts, pond, and every discharge point, with an index or legend.
6 Response: See attachments to the report.

Landscaping and irrigation

A plan note that defers irrigation design to construction does not satisfy the Commission. It asked to see the planting and the irrigation on the drawings.

7. Updated landscape plan: A current Sheet L1.0 that matches the redesigned site layout and shows items 8 through 11.
7 Response: See updated sheet L1.0

8. Island planting: The tree and shrub in each parking island, with species, size, and quantity. Show the gas lines that cross the islands and state what will be planted where a line limits planting.
8 Response: See updated sheet L1.0

9. Park strip planting: The park strip planting from Sheet C500 carried onto the landscape plan, with species, size, and quantity.
9 Response: Planting is located on the south side of the park strip between parking lot and drainage ditch. See updated sheet L1.0

10. Irrigation mapping: An irrigation plan showing the point of connection, mainline, zones, and the heads or drip lines serving the islands and the park strip.
10 Response: Landscape contractor to design and install irrigation system in accordance with the landscape plan. Note 4 & 32.

11. Existing vegetation: Confirmation of the existing vegetation that is being kept or counted toward the requirement.
11 Response: Not applicable

Lighting

All ten lighting comments from the September 28, 2026 review remain open because the Review 3 response left each one blank. A written response and the supporting drawings are needed for every item below, under 40.35 and 40.10(8).

12. Layout: Lighting plan updated to the current site layout.
12 Response: The electrical site plan and photometric site plan have been updated to match the current site layout; see E101 and E102.

13. Photometric grid: Calculation grid extended to 5 ft past the property lines.
13 Response: The calculation grid has been extended to 5 ft past the property boundary; see E102.

14. Fixtures in the calculations: Every existing and proposed fixture included in the photometric calculations.
14 Response: All exterior luminaires are included in the current photometric calculation shown on E102.

15. Pole and base heights: Pole height and base height for each pole type.
15 Response: Pole base detail has been added to E602. Maximum base heights and fixture heights have been added to this detail for clarity.

16. House-side shielding: Shielding shown on the fixtures that face neighboring property.
16 Response: Manufacturer house-side shielding has been added to all fixtures within 150' of the north and west property lines; see E101.

17. Controls: The control method and operating hours.
17 Response: Astronomic time-clock controls from LCP within Electrical room 120 will be utilized for all exterior lighting. Time clocks to be submitted by contractor for approval per Electrical General Notes item B on Sheet E001.

18. Cut sheets: Manufacturer cut sheets for every fixture.
18 Response: Cut sheets for the exterior luminaires are now provided as A1 through WS in folder "2026-10-02 - Exterior Lighting".

19. Narrative: A lighting narrative describing how the design meets the standard.
19 Response: The exterior lighting design shall provide a safe, secure, and well-illuminated environment for students, staff, and visitors. Lighting shall prioritize areas of high pedestrian and vehicular activity, including building entrances, pedestrian walkways, parking areas, drop-off and pick-up zones, and vehicular circulation routes. Illumination shall provide adequate visibility for safe movement, identification of potential hazards, and general security while minimizing glare, light trespass, and unnecessary illumination of adjacent properties.

20. A3 play-area fixtures: The A3 fixtures at the play area addressed in the plan and calculations.
20 Response: The play-area fixtures are providing increased illumination for the basketball court per IES standards.

21. Calculation summary: The summary table for the photometric calculations.
21 Response: Photometric statistics have been added; see E102.

Traffic commitments

The Hales Traffic Impact Study (9/29/2026) puts the 95th-percentile queue at about 2,130 ft against about 2,100 ft of double-stacked storage. Keeping the car line on site therefore depends on how the school operates it, and the Commission wants those operating commitments in writing and signed by the owner so they can be carried into the Development Plan Agreement.

22. Staggered start and dismissal times: A signed commitment to staggered start and dismissal times that states the schedule. "Intends to comply" is not sufficient.
22 Response: The applicant would like to incorporate this into the development agreement

23. Double-stacked car line: A signed commitment to use both stacking lanes at every arrival and dismissal, operated as shown on Sheet C202.
23 Response: The applicant would like to incorporate this into the development agreement agreement

24. Traffic signal cost share: A signed commitment to pay the proportionate share of the Poison Spider Lane / Robertson Road signal, with the proposed share and how it was calculated. The Review 3 response left this blank.
24 Response: The applicant would like to incorporate this into the development agreement

Pipeline consent and replat

25. Pipeline operator consent: Written consent from Sinclair for the work over or near its line. Address Black Hills Energy as well, with its written consent or a statement of why none is needed.
25 Response: SPE is coordinating with both pipeline companies to get permission. Their approval letters will be provided as soon as they are received.

26. Replat: The current status of the replat and the expected recording date. It has been submitted and is in process but is not yet recorded.
26 Response: Due to the financing situation for the school the process will need to go as follows:

a. Site plan approval
b. Close on Financing, and Land
c. Record the plat.

WYOMING CLASSICAL ACADEMY

6389 POISON SPIDER LANE
MILLS, WYOMING

ZONE: UA - URBAN AGRICULTURE

GENERAL NOTES

UTILITY NOTES

ABOVE-GROUND IMPROVEMENTS

DEMOLITION NOTES

UNDERGROUND INFORMATION

GEOTECHNICAL NOTES

DEFERRED SUBMITTAL

TRAFFIC CONTROL & SAFETY NOTES

NOTICE TO CONTRACTOR

PERMISSION TO USE PLANS

VICINITY MAP



INDEX TO DRAWINGS

C001	COVER SHEET & GENERAL NOTES
C200	MASTER SITE PLAN
C201	ENLARGED SITE PLAN
C202	TRAFFIC CIRCULATION PLAN
C300	OVERALL GRADING / DRAINAGE PLAN
C301	ENLARGED GRADING / DRAINAGE PLAN
C400	OVERALL UTILITY PLAN
C401	ENLARGED UTILITY PLAN
C500	POISON SPIDER LANE IMPROVEMENT PLAN
C600	STORM WATER POLLUTION PREVENTION PLAN
C601	SWPPP NOTES & DETAILS
C700	SITE DETAILS
C701	SITE DETAILS
L1.0	LANDSCAPE PLAN

ABBREVIATIONS

CONTRACTOR
ONE WEST CONST.

CIVIL ENGINEER
SILVERPEAK ENGINEERING

CONTACT BLUE STAKES OF UTAH
811 OR 1-800-662-4111
AT LEAST 48 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION

SILVERPEAK ENGINEERING
177 E. ANTELOPE DR STE B
LAYTON, UT 84041
PHONE (801) 499-5054
STRUCTURAL | CIVIL | SURVEY | WWW.SILVERPEAKES.COM

WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LN
MILLS, WYOMING

MAL

DATE 10.23.2025
PROJECT AW.081
MANAGER JRJ

REVISIONS

MARK	DATE / DESC
1	
2	
3	
4	

COVER SHEET & GENERAL NOTES

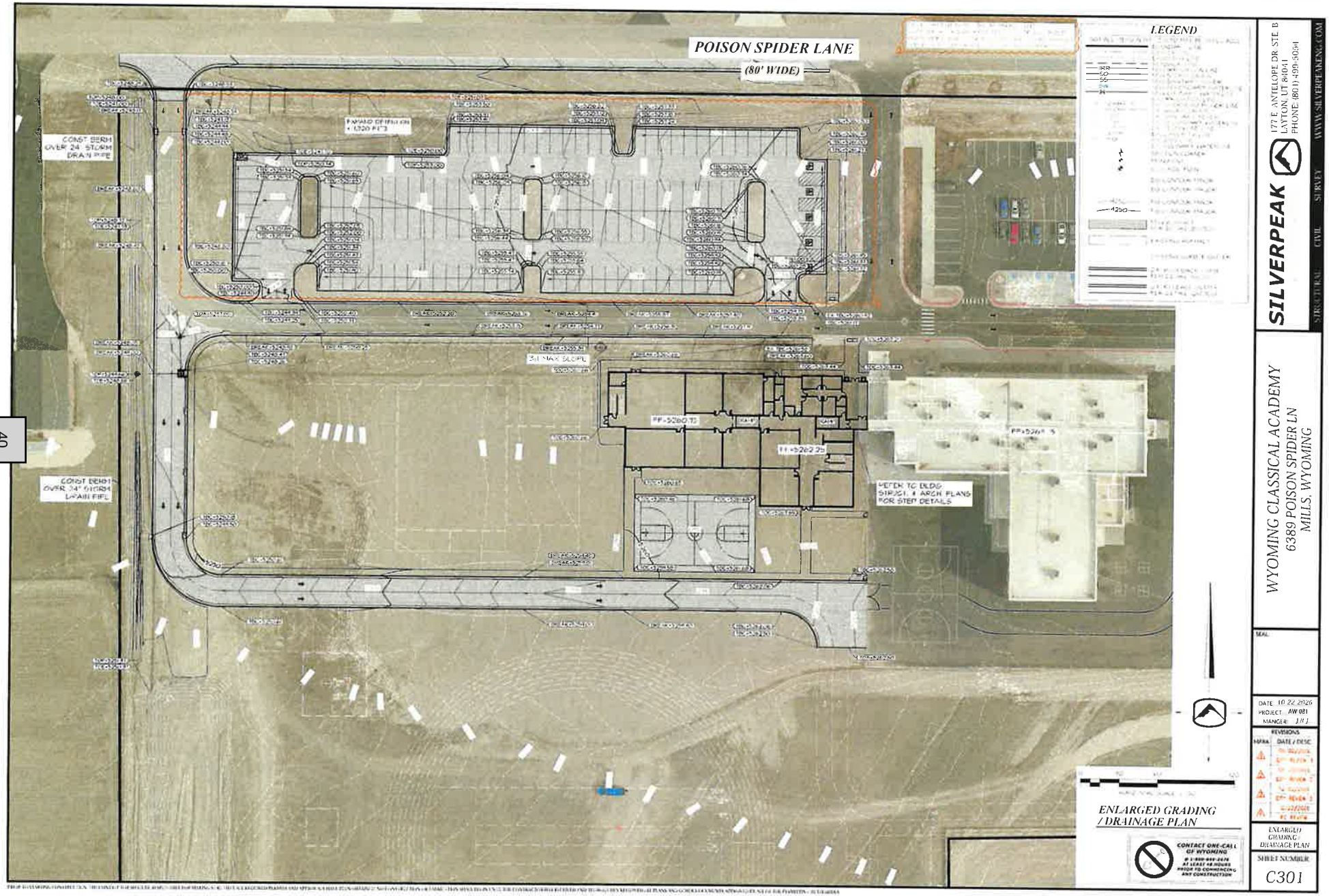
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C001

WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LN
MILLS, WYOMING
SILVERPEAK
1171 E. ANTELOPE DR STE B
LAYTON, UT 84041
PHONE: (801) 499-5054
WWW.SILVERPEAKENG.COM
DATE 11.23.2026
PROJECT AW.081
MANAGER J.H.J
REVISIONS
MARK DATE / DESC
MASTER SITE PLAN
SHEET NUMBER C200
MASTER SITE PLAN
LEGEND
ROBERTSON ROAD (80' WIDE)
SPUR LANE (50' WIDE)
POISON SPIDER LANE
SITE AREA TABULATION
CONTACT ONE-CALL OF WYOMING
811
S0°33'57"E, 569.87'
S00°22'15"E 20.85'
S88°31'35"W 30.84'
N0°52'38"W, 138.46'
S00°37'17"E 413.42'
S00°57'40"E 138.66'
S88°32'23"W 350.53'
S00°33'32"E 462.66'
1025.76'
N89°48'36"E
S88°34'32"W 211.22'
S88°32'29"W 434.90'
N00°30'00"W
601.02'
N00°37'08"W 381.18'
N00°15'10"W 74.01'

WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LN
MILLS, WYOMING
SILVERPEAK
1172 E ANTELOPE DR STE B
LAYTON, UT 84041
PHONE: (801) 499-5054
SHEET NUMBER
C201
ENLARGED SITE PLAN
ENLARGED SITE PLAN
LEGEND
EXISTING SCHOOL BUILDING
PROPOSED BUILDING ADDITION
FUTURE GYM / CAFETERIA / AUDITORIUM
POISON SPIDER LANE
(80' WIDE)

WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LN
MILLS, WYOMING
SILVERPEAK
177 E. ANTELOPE DR. STE B
LAYTON, UT 84041
PHONE: (801) 499-5054
WWW.SILVERPEAKENG.COM
STRUCTURAL CIVIL SURVEY
DATE 10.21.2020
PROJECT AW 081
MANAGER J.S.J.
REVISIONS
MARK DATE / ISSUE
TRAFFIC CIRCULATION PLAN
SHEET NUMBER
C202
LEGEND
TRAFFIC CIRCULATION PLAN
CONTACT ONE-CALL OF WYOMING
POISON SPIDER LANE
(80' WIDE)

WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LN
MILLS, WYOMING
SILVERPEAK
177 E. ANTELOPE DR. STE. B
LAYTON, UT 84041
PHONE: (801) 499-5054
SHEET NUMBER
C300
OVERALL GRADING DRAINAGE PLAN
LEGEND
OVERALL GRADING /DRAINAGE PLAN
POISON SPIDER LANE
(60' WIDE)
CONTACT ONE-CALL OF WYOMING
811



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STRUCTURAL CIVIL SURVEY WWW.SILVERPEAKENG.COM
177 E. ANTELOPE DR STE B
LAYTON, UT 84041
PHONE: (801) 499-5051

WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LN
MILLS, WYOMING

SEAL

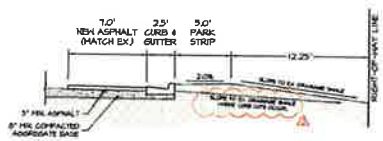
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PROJECT AW 081
MANGER J.H.J.

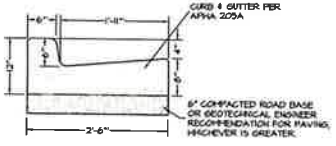
REVISIONS
NUMBER	DATE / DESC
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2	CITY REVIEW 1
3	PC REVIEW 2
4	11/23/2020 PC REVIEW

ENLARGED GRADING / DRAINAGE PLAN

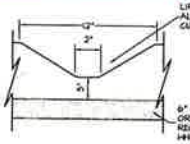
SHEET NUMBER
C301

WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LN
MILLS, WYOMING
SILVERPEAK
C400
OVERALL UTILITY PLAN
POISON SPIDER LANE
LEGEND
DEVELOPMENT NOTE: THE PLANNED GYM / CAFETERIA / AUDITORIUM ADDITION, TRACK, FIELD, BUS LOOP, AND PARKING ARE FUTURE PHASES SUBJECT TO SEPARATE PLAN APPROVAL.





30" HIGH BACK CURB DETAIL



NOTE: CURB CUTS OCCUR ON POISON SPIDER LANE AT GRADE BREAKS SEE IMPROVEMENT PLAN.

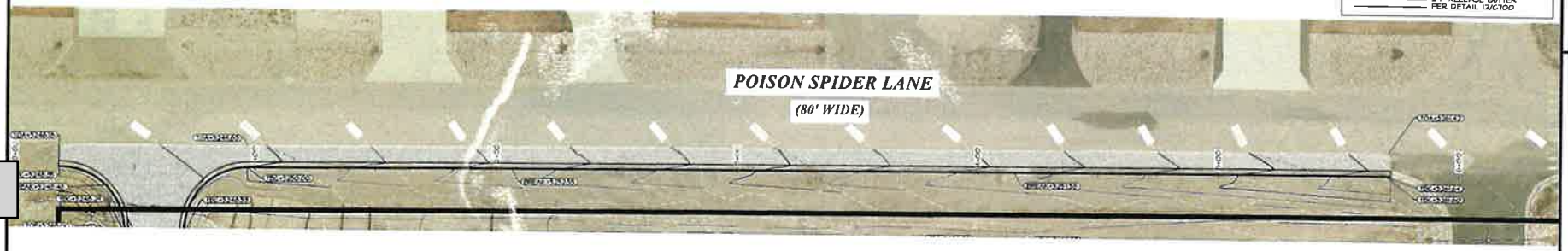
TYPICAL CURB CUT DETAIL
NOT TO SCALE — 2

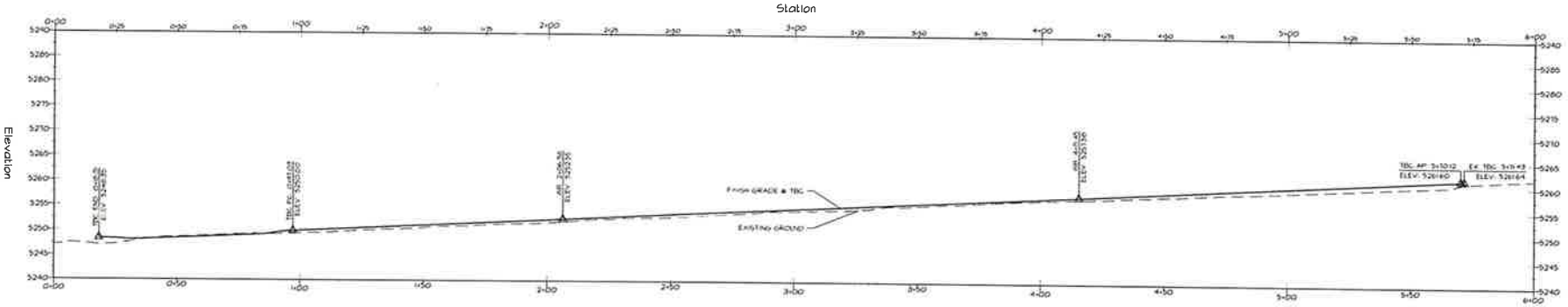
DEVELOPMENT NOTE: THE PLANNED GYM / CAFETERIA / AUDITORIUM ADDITION, TRACK, FIELD, BLEACHERS, AND CONCESSIONS ARE FUTURE PHASES SUBJECT TO SEPARATE CITY OF MILLS APPROVAL

POISON SPIDER LANE IMPROVEMENTS
SCALE: 1"=5' — 1

LEGEND
NOT ALL ITEMS IN THE LEGEND MAY BE APPLICABLE

- BOUNDARY LINE
- CENTERLINE
- EASEMENT LINE
- SETBACK LINE
- NEW IRRIGATION LINE
- NEW STORM DRAIN
- NEW SANITARY SEWER
- NEW SECONDARY WATERLINE
- NEW CULINARY WATERLINE
- EX. IRRIGATION LINE
- EX. OVERHEAD POWER LINE
- EX. STORM DRAIN
- EX. SANITARY SEWER
- EX. SECONDARY WATERLINE
- EX. TELEPHONE LINE
- EX. CABLE TV LINE
- EX. GAS LINE
- EX. CULINARY WATERLINE
- SECTION CORNER
- MONUMENT
- CONTROL POINT
- EG CONTOUR MINOR
- EG CONTOUR MAJOR
- 1250 FG CONTOUR MINOR
- 1250 FG CONTOUR MAJOR
- NEW ASPHALT PER DETAIL 8/C700
- EXISTING ASPHALT
- EXISTING CURB & GUTTER
- 24" HIGH BACK CURB PER DETAIL 11/C700
- 24" RELEASE GUTTER PER DETAIL 13/C700





HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

POISON SPIDER LANE IMPROVEMENT PLAN

CONTACT ONE-CALL OF WYOMING
@ 1-800-849-3475
AT LEAST 48 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION

SILVERPEAK
177 E. ANTELOPE DR. STE. B
LAYTON, UT 84041
PHONE: (801) 499-5054

WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LN
MILLS, WYOMING

SEAL

DATE: 10-22-2026
PROJECT: AW-081
MANGER: IRI

REVISIONS

MARK	DATE / DESC.
1	09/01/2026 CITY REVIEW 1
2	09/23/2026 CITY REVIEW 2
3	10/02/2026 CITY REVIEW 3
4	10/22/2026 PC REVIEW

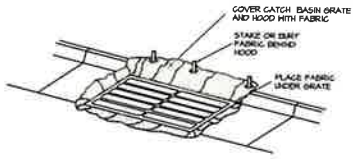
POISON SPIDER LANE IMPROVEMENT PLAN

SHEET NUMBER
C500

WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LN
MILLS, WYOMING
SILVERPEAK
177 E. ANTELOPE DR. STE. B
LAYTON, UT 84041
PHONE: (801) 499-5034
WWW.SILVERPEAKENG.COM
CIVIL
SURVEY
STRUCTURAL
SEAL
DATE 10/22/2024
PROJECT AW-381
MANAGER T.F.
REVISIONS
MARK
DATE / DESC
09/03/2025
CITY REVIEW 1
09/23/2025
CITY REVIEW 2
10/01/2025
CITY REVIEW 3
10/07/2025
PC REVIEW
SWPPP
SHEET NUMBER
C600
LEGEND
NOT ALL ITEMS IN THE LEGEND MAY BE APPLICABLE
PROPERTY LINE
NEW STORM DRAIN
EX. STORM DRAIN
EG CONTOUR MINOR
EG CONTOUR MAJOR
FG CONTOUR MINOR
FG CONTOUR MAJOR
NEW ASPHALT PER X-SECTION
EXISTING ASPHALT
EXISTING CURB & GUTTER
CONST CURB & GUTTER PER X-SECTION
CONST SILT FENCE
50 INLET PROTECTION
DEVELOPMENT NOTE: THE PLANNED GYM / CAFETERIA / ADDITIONAL ADDITION, TRACK, FIELD, BLEACHERS, AND CONCESSION ARE FUTURE PHASES TO BE CONSTRUCTED AT A LATER DATE AS FUNDS ARE AVAILABLE.
POISON SPIDER LANE
HORIZONTAL SCALE: 1"=50'
SWPPP
CONTACT ONE CALL OF WYOMING
811
AT LEAST 48 HOURS PRIOR TO EXCAVATING ANY CONSTRUCTION

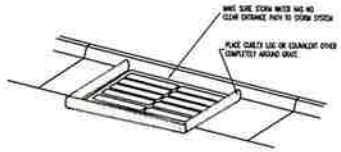
STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

WYOMING CLASSICAL ACADEMY



FABRIC UNDER GRATE

MAINTENANCE: REMOVE & CLEAN CURLEX LOGS THOROUGHLY EACH WEEK OR AFTER A STORM. TAKE CARE WHILE LIFTING GRATE TO PREVENT SEDIMENT FROM FALLING INTO THE CATCH BASIN. DISPOSE OF SEDIMENT AWAY FROM THE STORM DRAIN.



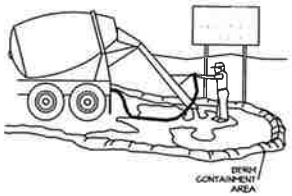
CURLEX LOG (STRAW/CLOTH SACK)

MAINTENANCE: REMOVE & CLEAN CURLEX LOGS THOROUGHLY EACH WEEK OR AFTER A STORM. TAKE CARE WHILE MOVING ROCK SACKS TO PREVENT SEDIMENT FROM FALLING INTO THE CATCH BASIN. DISPOSE OF SEDIMENT AWAY FROM THE STORM DRAIN.

INLET PROTECTION

NOTES:

1. USE FABRIC UNDER GRATE TO PROTECT THE CATCH BASIN FROM SEDIMENTATION.



CONCRETE WASTE MANAGEMENT

NOTES:

1. EXCESS AND WASTE CONCRETE SHALL NOT BE WASHED INTO THE STREET OR INTO A DRAINAGE SYSTEM.

2. FOR WASHOUT OF CONCRETE AND MORTAR PRODUCTS, A DESIGNATED CONTAINMENT FACILITY OF SUFFICIENT CAPACITY TO RETAIN LIQUID AND SOLID WASTE SHALL BE PROVIDED ON SITE. THIS DESIGNATED AREA MUST BE LINED WITH AN IMPERMEABLE BARRIER.

3. SLURRY FROM CONCRETE AND ASPHALT SAW CUTTING SHALL BE VACUUMED OR CONTAINED, DRIED, PICKED UP, AND DISPOSED OF PROPERLY.

CONSTRUCTION & BMP SEQUENCING

BMP INSPECTION AND MAINTENANCE SHALL BEGIN WITH THE INSTALLATION OF THE FIRST BMP AND CONTINUE UNTIL THE LAST BMP (REVEGETATION) HAS BEEN COMPLETED.

CATCH BASIN PROTECTION

1 CATCH BASIN PROTECTION PER DETAIL LABELED "CURLEX LOG" AND/OR "FABRIC UNDER GRATE" SHALL BE INSTALLED UPON [illegible] AS OF STORM DRAIN CONSTRUCTION.

2 FOR CATCH BASINS LOCATED IN CURB AND [illegible]:
- A "CURLEX LOG" SHALL REMAIN IN PLACE [illegible] 4YR. CURB AND GUTTER IS CONSTRUCTED.
- B CATCH BASIN PROTECTION PER DETAIL LABELED "CURLEX LOG" AND/OR "FABRIC UNDER GRATE" SHALL BE INSTALLED UPON COMPLETION OF CURB AND GUTTER CONSTRUCTION, AND SHALL REMAIN IN PLACE UNTIL ALL FINISH GRADING IS COMPLETED.

3 FOR CATCH BASINS LOCATED IN LANDSCAPE AREAS.
- A "CURLEX LOG" SHALL REMAIN IN PLACE UNTIL SITE GRADING OCCURS.
- B CATCH BASIN PROTECTION PER DETAIL LABELED "CURLEX LOG" AND/OR "FABRIC UNDER GRATE" SHALL BE INSTALLED UPON COMPLETION OF SITE GRADING, AND SHALL REMAIN IN PLACE UNTIL ALL GRADING & LANDSCAPING IS COMPLETED.

CONCRETE WASTE MANAGEMENT

1 A CONCRETE WASTE MANAGEMENT FACILITY SHALL BE CONSTRUCTED PRIOR TO POURING ANY CONCRETE ON THE SITE, AND SHALL REMAIN IN PLACE UNTIL THE LAST CONCRETE POUR HAS BEEN COMPLETED.

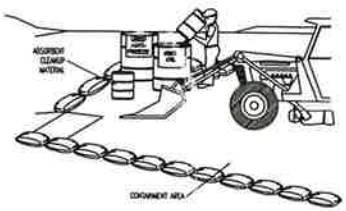
2 CONTRACTOR IS TO [illegible] THE CONCRETE WASTE MANAGEMENT FACILITY BY LEGALLY REMOVING AND DISPOSING OF WASTE CONCRETE AND, IF NECESSARY, ANY NON-SOIL ITEM MATERIALS.

REVEGETATION

1 SEEDING AND PLANTING OF THE SITE PER THE LANDSCAPE PLAN SHALL OCCUR WITHIN 14 DAYS OF COMPLETION OF THE FINISH GRADING, IF SAID 14 DATES OCCUR BETWEEN APRIL 15 AND SEPTEMBER 15. GRADING, SEEDING AND PLANTING WILL BEGIN APRIL 15.

2 PLANTING: LAYOUTS SHALL BE COMPLETED WITHIN 15 DAYS.

3 SEEDING AND PLANTING SHALL BE CONSIDERED COMPLETE WHEN 70% OF PLANTINGS ARE ESTABLISHED



EQUIPMENT MAINTENANCE/REPAIR

NOTES:

1. LEAKING VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED ON-SITE. EQUIPMENT AND VEHICLES SHALL BE INSPECTED FREQUENTLY FOR LEAKS AND SHALL BE REPAIRED IMMEDIATELY. CLEAN UP SPILLS AND LEAKS PROMPTLY WITH ABSORBENT MATERIALS. DO NOT FLUSH WITH WATER.

2. VEHICLES AND EQUIPMENT SHALL BE MAINTAINED, AND REPAIRED ON-SITE ONLY IN DESIGNATED AREAS. PREVENT RUN-ON AND RUN-OFF FROM DESIGNATED AREAS.

3. CONTAINMENT DEVICES SHALL BE PROVIDED AND AREAS SHALL BE COVERED IF NECESSARY.

4. DESIGNATE ON-SITE VEHICLE AND EQUIPMENT MAINTENANCE AREAS, AWAY FROM STORM DRAIN INLETS AND WATERCOURSES.

5. ALWAYS USE SECONDARY CONTAINMENT, SUCH AS A DRAIN PAN OR DROP CLOTH TO CATCH SPILLS AND LEAKS WHEN REMOVING OR CHANGING FLUIDS. LEGALLY DISPOSE OF USED OILS, FLUIDS AND LUBRICANTS.

6. PROVIDE SPILL CONTAINMENT SIZES OF SECONDARY CONTAINMENT AROUND STORED OIL, FUEL, AND CHEMICAL DRUMS.

7. MAINTAIN AN ADEQUATE SUPPLY OF ABSORBENT SPILL CLEANUP MATERIALS IN DESIGNATED AREAS.

STORM WATER POLLUTION PREVENTION PLAN SPECIFIC NOTES

1. THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WAS DEVELOPED AT THE REQUEST OF THE OWNER FOR THE CONSTRUCTION OF COMMERCIAL CONSTRUCTION IN THE CITY OF MILLS, NATRONA COUNTY, STATE OF WYOMING. THIS PLAN IDENTIFIES POTENTIAL SOURCES OF POLLUTANTS OF STORM WATER, PRESCRIBES POLLUTION CONTROL MEASURES, AND ASSISTS IN ENSURING IMPLEMENTATION AND MAINTENANCE OF THE BEST MANAGEMENT PRACTICES (BMPS) INDICATED HEREIN.

2. A NOTICE OF INTENT SHALL BE FILED WITH THE STATE OF WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY BY THE OWNER SO THAT THIS CONSTRUCTION PROJECT MAY BE COVERED UNDER THE STATE GENERAL PERMIT. THE PERMIT IS STATE OF WYOMING LARGE CONSTRUCTION (LCG) GENERAL PERMIT (NO. WYR 100000) FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. PERMIT FORMS ARE AVAILABLE FOR DOWNLOAD FROM THE DEPARTMENT OF ENVIRONMENTAL QUALITY AT WWW.DEQ.WYOMING.GOV/WATER-QUALITY/WYPDES/DISCHARGE-PERMITTING/

3. IN THE EVENT OF A CHANGE IN OWNERSHIP, A NEW NOTICE OF INTENT SHALL BE FILED WITH THE DOWNTOWN OF ENVIRONMENTAL QUALITY.

4. IN THE EVENT OF A RELEASE OF A REPORTABLE QUANTITY OF A POLLUTANT, THE CONTRACTOR SHALL NOTIFY THE OWNER SO NOTIFY THE WYOMING RESPONSE CENTER, CITY OF MILLS, AND SILVERPEAK ENGINEERING IF NECESSARY. THIS SWPPP SHOULD BE REVISED TO REFLECT THE CHANGE IN CONDITIONS OF THE CONSTRUCTION ACTIVITY. A REPORTABLE QUANTITY IS ESTABLISHED BY 40 CODE OF FEDERAL REGULATIONS (CFR) 117.3 OR 40 CFR 302.4.

5. ALL CONTRACTORS AND THEIR PERSONNEL WHOSE WORK CAN CONTRIBUTE TO OR CAUSE POLLUTION OF STORM WATER SHALL BE MADE FAMILIAR WITH THIS SWPPP PLAN. ADEQUATE TRAINING FOR IMPLEMENTATION OF THE MEASURES PRESCRIBED HEREIN SHALL BE PROVIDED TO THE CONTRACTORS AND THEIR PERSONNEL, ALL CONTRACTORS AND SUBCONTRACTORS, EVEN ON RESIDENTIAL CONSTRUCTION WITH DISTURBANCE AREAS LESS THAN ONE ACRE, SHALL ABIDE BY THIS SWPPP.

6. CHANGES IN CONSTRUCTION OR IN CONDITIONS WHICH ARE NOT COVERED BY THIS SWPPP SHALL BE BROUGHT TO THE ATTENTION OF THE DEVELOPMENT OWNER AND SILVERPEAK ENGINEERING IF NECESSARY. THIS SWPPP WILL BE REVISED TO REFLECT THE CHANGE IN CONSTRUCTION OR IN CONDITIONS.

7. ALL PREVENTION AND CLEAN UP MEASURES SHALL BE CONDUCTED IN ACCORDANCE WITH CITY OF MILLS ORDINANCES, AS WELL AS STATE AND FEDERAL REGULATIONS. WASTE MATERIALS SHOULD BE DISPOSED OF IN A LEGAL MANNER. ALL DISCHARGERS OF STORM WATER MUST COMPLY WITH THE LAWFUL REQUIREMENTS OF CITY OF MILLS REGARDING THE DISCHARGES OF STORM WATER TO STORM DRAINS.

8. THIS SWPPP DOES NOT COVER THE REMOVAL OF HAZARDOUS OR TOXIC WASTE. IN THE EVENT OF A DISCHARGE OR RELEASE OF A REPORTABLE QUANTITY OF TOXIC WASTE, WORK SHALL BE STOPPED UNTIL THE SPILL CAN BE ASSESSED AND A MITIGATION REPORT PREPARED BY A QUALIFIED ENVIRONMENTAL CONSULTANT, AND IF NECESSARY, REVIEWED BY CITY OF MILLS AND ANY OTHER AGENCY HAVING JURISDICTION.

9. THIS SWPPP SHALL BE MADE AVAILABLE TO THE PUBLIC UNDER SECTION 308(B) OF THE CLEAN WATER ACT, UPON REQUEST BY MEMBERS OF THE PUBLIC. THE DISCHARGER SHALL MAKE AVAILABLE FOR REVIEW A COPY OF THIS SWPPP EITHER TO THE DEPARTMENT OF ENVIRONMENT QUALITY OR DIRECTLY TO THE REQUESTOR. THIS SWPPP MUST BE KEPT ON SITE DURING CONSTRUCTION ACTIVITY AND MADE AVAILABLE UPON REQUEST OF A REPRESENTATIVE OF THE DIVISION OF WATER QUALITY AND/OR THE LOCAL AGENCY.

10. CONTACTS

DEVELOPER	WYOMING CLASSICAL ACADEMY
ADDRESS	6389 POISON SPIDER LANE
CITY, STATE	MILLS WYOMING
TELEPHONE	307-251-3101
CONTRACTOR/DISCHARGER	ONE WEST CONSTRUCTION
ADDRESS	290 N 1140 STREET, SUITE A
CITY, STATE	KAYSVILLE, UTAH
TELEPHONE	801-660-0523
CIVIL ENGINEER	SILVERPEAK ENGINEERING
PROJECT MANAGER	JOSHUA M. JENSEN, P.E., S.E.
ADDRESS	177 E ANTELOPE DRIVE, SUITE B
CITY, STATE	LAYTON, UT 84041
TELEPHONE	801-499-5084
MILLS CITY	
ADDRESS	704 FOURTH STREET, PO BOX 789
CITY, STATE	MILLS, WYOMING
TELEPHONE	307-234-6679
STATE OF WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY DIVISION	444 WEST COLLINS DRIVE, SUITE 1400 CASPER, WYOMING 82601 307-473-3455
U.S. EPA	
ENVIRONMENTAL PROTECTION AGENCY DENVER, COLORADO	REGION VIII 800-759-4372
ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460	202-475-8515

11. REFERENCES
A. PLAN PER SILVERPEAK ENGINEERING.
B. STORMWATER POLLUTION PREVENTION PLAN PREPARED BY SILVERPEAK ENGINEERING

12. THE PROPOSED CONSTRUCTION ACTIVITY IS THE CONSTRUCTION OF ONE BUILDING PLUS THE CONSTRUCTION OF ALL IMPROVEMENTS, UTILITIES, AND DRAINAGE AND GRADING FEATURES AS SHOWN ON THE PLANS.

13. THE ESTIMATED RUN-OFF COEFFICIENT AFTER COMPLETION IS 0.35

14. A REASONABLE AMOUNT OF WATER FLOWS ONTO THE SITE.

A. PROHIBITION ON MOST NON-STORM WATER DISCHARGES

ONLY STORM WATER FROM THE PROJECT SITE SHALL BE ALLOWED TO FLOW INTO THE ON-SITE STORM DRAIN SYSTEM. CLEAN WATER FROM THE FLUSHING OF FIRE HYDRANTS, WATER MAINS, AND STORM DRAINS MAY BE DISCHARGED TO THE STORM DRAIN IF IT IS NOT ALLOWED TO COLLECT DIRT, DEBRIS, AND TRASH WHILE FLOWING TO A STORM DRAIN INLET.

B. POTENTIAL SOURCES OF STORM WATER POLLUTANTS

POTENTIAL STORM WATER POLLUTANTS INCLUDE SOIL SEDIMENT AND NUTRIENTS, OIL, GREASE, TOXIC POLLUTANTS, AND HEAVY METALS. SOURCES OF STORM WATER POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO SOIL EROSION BY WATER AND/OR WIND; CLEARING OF VEGETATION; GRADING; VEHICLE AND EQUIPMENT REFUELING AND MAINTENANCE; WASHING OF CONCRETE TRUCKS, MIXERS AND HANDLING EQUIPMENT; PAINTS, SOLVENTS AND ADHESIVES; AND LANDSCAPING WORK.

C. EROSION AND SEDIMENT CONTROLS

1. COVER EXPOSED STOCKPILES OF SOILS, CONSTRUCTION AND LANDSCAPING MATERIALS WITH HEAVY PLASTIC SHEETING.
2. IN LANDSCAPING AREAS WHERE THE VEGETATION HAS NOT ESTABLISHED GROWTH AND SHEET HOLD, CONSTRUCT SWALES OR DIRT BERMS AROUND THEIR PERIMETER TO ENSURE THAT WATER WILL BE CONTAINED INSIDE THE LANDSCAPING AREA AND THAT IT WILL NOT BE CONVEYED TO A STORM DRAIN INLET.
3. DISTURBED AREAS SHALL BE SEEDED BY THE END OF THE DEVELOPER SILT BARRIERS SHALL BE MAINTAINED BY THE DEVELOPER IN THE MEAN TIME, OR, THE DEVELOPER SHALL RE-SEED DISTURBED AREAS AS THEY SEE FIT AND REMOVE THE SEDIMENT CONTROLS.
4. THROUGHOUT CONSTRUCTION, CONTRACTOR SHALL ENSURE STORM WATER RUNOFF AROUND DISTURBED SOILS WITH BERMS OR DIRT SWALES.

D. OTHER CONTROLS

1. WASTE DISPOSAL
   - A. KEEP WASTE DISPOSAL CONTAINERS COVERED.
   - B. PROVIDE FOR THE WEEKLY (OR MORE FREQUENT, IF NECESSARY) DISPOSAL OF WASTE CONTAINERS.
   - C. PROVIDE CONTAINERS AT CONVENIENT LOCATIONS AROUND THE SITE.
2. SWEEPING OF SITE
   - A. PROVIDE DAILY, IF NECESSARY, SWEEPING BY HAND OR MECHANICAL MEANS TO KEEP THE PAVED AREAS OF THE SITE FREE OF DUST, DIRT, AND DEBRIS IF REQUIRED DURING PERIODS OF CONSTRUCTION.
   - B. DISPOSE OF ACCUMULATED DIRT IN WASTE CONTAINERS, OR HAUL IT OFF THE SITE TO A LANDFILL.
3. SANITARY/SEPTIC DISPOSAL

PORTABLE TOILETS AND OTHER SANITARY FACILITIES SHALL BE SERVICED WEEKLY AND PUMPED CLEAN BY A WASTE DISPOSAL COMPANY. NO TOXIC OR HAZARDOUS WASTE SHALL BE DISPOSED OF IN A PORTABLE TOILET OR IN THE ON-SITE SANITARY SEWER. TOILETS SHALL BE ANCHORED AGAINST OVERTURNING.

4. SPILLS
   - A. STORE ADEQUATE ABSORBENT MATERIALS, RAGS, BROOMS, SHOVELS, AND WASTE CONTAINERS ON THE SITE TO CLEAN-UP SPILLS OF MATERIALS SUCH AS FUEL, PAINT, SOLVENTS, OR CLEANERS. CLEAN UP MINOR SPILLS IMMEDIATELY.
   - B. FOR RESPONSIBLE QUANTITY OF HAZARDOUS OR TOXIC SUBSTANCES, SECURE THE SERVICES OF QUALIFIED PERSONNEL FOR CLEAN-UP AND DISPOSAL.
5. CONTROL OF ALLOWABLE NON-STORM WATER DISCHARGES LANDSCAPING IRRIGATION, EROSION CONTROL MEASURES, PIPE FLUSHING AND TESTING, AND PAVEMENT WASHING ARE ALLOWED IF THEY CANNOT FEASIBLY BE ELIMINATED, COMPLY WITH THIS PLAN, DO NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF WATER QUALITY STANDARDS, AND ARE NOT REQUIRED TO BE PERMITTED BY THE LOCAL REGIONAL WATER QUALITY CONTROL BOARD.
6. VEHICLES AND EQUIPMENT
   - A. FIX LEAKS OF FUEL, OIL AND OTHER SUBSTANCES IMMEDIATELY.
   - B. PERFORM REFUELING AND SERVICE OF VEHICLES OR EQUIPMENT OFF-SITE WHEN POSSIBLE. IF REFUELING OR SERVICE OF EQUIPMENT IS PERFORMED ON SITE, THEN PROVIDE AN IMPERVIOUS, CONTAINED AREA WHERE ANY SPILLS CAN BE CONTAINED WITHOUT FLOWING TO A STORM WATER INLET OR INTO THE GROUND.
   - C. USE DRIP PANS TO CATCH LEAKS AND SMALL SPILLS.
7. CONCRETE TRUCKS, MIXERS AND HANDLING EQUIPMENT
   - A. DO NOT DISPOSE OF WASHOUT FROM THE WASHING OF CONCRETE TRUCKS,MIXERS, AND HANDLING EQUIPMENT WHERE IT WILL FLOW INTO A STORM WATER INLET OR INTO A PUBLIC STREET.
   - B. PROVIDE A WASHING TANK TO RECEIVE AND RECYCLE FLOW FROM CONCRETE EQUIPMENT. DISPOSAL OF TANK CONTENTS SHALL BE CONDUCTED BY CONTRACTOR.
   - C. PROVIDE, DESIGNATE AND POST A SIGN MARKING A DESIGNATED AREA FOR WASHING ANY VEHICLES OR EQUIPMENT. DRAINAGE FROM THIS AREA SHOULD BE CONTAINED OR FLOW TO A HOLDING TANK.
8. LANDSCAPING OPERATIONS
   - A. USE ONLY THE MINIMUM AMOUNT OF LANDSCAPING FERTILIZERS, NUTRIENTS, AND OTHER CHEMICALS THAT ARE NEEDED.
   - B. DO NOT OVER WATER FERTILIZED OR TREATED LANDSCAPE AREAS. MANAGE RUNOFF OF IRRIGATION WATER FROM LANDSCAPING.
   - C. DO NOT PLACE LANDSCAPING MATERIAL BY CURB STREET ONCE PAVING IS COMPLETE.
9. STORM WATER INLETS

CONTRACTOR SHALL PROVIDE STRAW FILLED BAGS OR SACKS AROUND INLETS WITHIN 1000 FEET OF CONSTRUCTION AS BARRIERS TO PREVENT SEDIMENT ENTERING THE INLETS. EXCESS SEDIMENT SHALL BE REMOVED FOLLOWING STORM EVENTS. BARRIERS SHALL BE REMOVED FOLLOWING COMPLETION OF CONSTRUCTION.

E. INSPECTION
1. REGULAR INTERVAL INSPECTION AND INSPECTION BEFORE AND AFTER STORMS
   - A. VISUALLY INSPECT THE SITE WEEKLY TO INSURE THAT STORM WATER INLETS ARE FREE OF DIRT AND DEBRIS.
   - B. BEFORE A STORM, INSPECT THE SITE TO INSURE THAT STORM WATER POLLUTION CONTROL MEASURES ARE IN PLACE.
   - C. AFTER A STORM, INSPECT ALL STORM WATER INLETS TO INSURE THAT THEY ARE CLEAR OF DIRT AND DEBRIS. CLEAN THOSE STORM WATER INLETS THAT ARE NOT CLEAN AND FREE OF DEBRIS.
   - D. THE DIVISION OF WATER QUALITY MAY REQUIRE THE DISCHARGER TO CONDUCT ADDITIONAL SITE INSPECTIONS, SUBMIT REPORTS AND CERTIFICATIONS, OR TO PERFORM SAMPLING AND ANALYSIS.
2. CONDUCT INSPECTIONS OF THE CONSTRUCTION SITE PRIOR TO ANTICIPATED STORM EVENTS AND AFTER ACTUAL STORM EVENTS, TO IDENTIFY AREAS CONTRIBUTING TO A STORM WATER DISCHARGE. TO EVALUATE WHETHER MEASURES TO REDUCE POLLUTANT LOADINGS IDENTIFIED IN THIS SWPPP ARE ADEQUATE, TO PROPERLY IMPLEMENT IN ACCORDANCE WITH THE TERMS OF THE GENERAL PERMIT, AND TO DETERMINE WHETHER ADDITIONAL CONTROL PRACTICES ARE NEEDED.
3. PREPARATION OF REPORTS AND RETENTION OF RECORDS
   - A. EACH DISCHARGER MUST CERTIFY ANNUALLY THAT ITS CONSTRUCTION ACTIVITY IS IN COMPLIANCE WITH THE REQUIREMENTS OF THE GENERAL PERMIT AND THIS SWPPP. THIS CERTIFICATION MUST BE BASED ON THE SITE INSPECTIONS. THE FIRST CERTIFICATION MUST BE COMPLETED BY JULY 1, 2020, AND EACH JULY 1 THEREAFTER.
   - B. THE DISCHARGER IS REQUIRED TO RETAIN RECORDS OF ALL MONITORING INFORMATION, COPIES OF ALL REPORTS REQUIRED BY THIS GENERAL PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT FOR CONSTRUCTION ACTIVITY FOR A PERIOD OF AT LEAST THREE YEARS. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE STATE. WITH THE EXCEPTION OF NONCOMPLIANCE REPORTING, DISCHARGERS ARE NOT REQUIRED TO SUBMIT THE RECORDS EXCEPT UPON SPECIFIC REQUEST BY THE STATE DEQ DIVISION OF WATER QUALITY.
   - C. DISCHARGERS WHO CANNOT CERTIFY COMPLIANCE MUST NOTIFY THE STATE DEQ DIVISION OF WATER QUALITY. THIS NOTIFICATION SHALL IDENTIFY THE TYPE OR TYPES OF NONCOMPLIANCE, DESCRIBE THE ACTIONS NECESSARY TO ACHIEVE COMPLIANCE, AND INCLUDE A TIME SCHEDULE, SUBJECT TO THE MODIFICATIONS BY THE STATE DEQ DIVISION OF WATER QUALITY, INDICATING WHEN COMPLIANCE WILL BE ACHIEVED. NONCOMPLIANCE REPORTS MUST BE SUBMITTED WITHIN 30 DAYS OF THE IDENTIFICATION OF THE NONCOMPLIANCE.

F. MAINTENANCE OF CONTROLS
1. MAINTENANCE AND REPAIR ALL CONTROLS AND MEASURES INDICATED ON THIS PLAN SHALL BE MAINTAINED IN GOOD AND EFFECTIVE CONDITION. IF ANY CONTROLS OR MEASURES ARE DAMAGED OR REMOVED, THEY SHALL BE PROMPTLY REPAIRED OR RESTORED.
2. PLAN REVISIONS IF CONSTRUCTION ACTIVITY OR CONDITIONS CHANGE FROM THOSE SHOWN IN THIS PLAN, THEN THIS PLAN SHALL BE REVISED TO REFLECT THE CURRENT CONDITIONS.

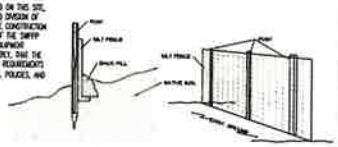
G. FINAL STABILIZATION AND POST-CONSTRUCTION CONTROLS
1. AFTER CONSTRUCTION HAS BEEN COMPLETED, THE SITE SHALL BE SWEPT CLEAN. STORM WATER INLETS (GRATES AND BASINS) SHALL BE CLEANED, AND ALL WASTE AND LEFTOVER MATERIALS SHALL BE REMOVED FROM THE SITE.
2. ALL LANDSCAPING AND PLANTING AREAS SHALL BE WELL MANAGED TO PREVENT EROSION. AVOID OVER WATERING OF LANDSCAPING.
3. ALL PAVED AREAS SHALL BE SWEPT WEEKLY EITHER BY HAND OR BY MECHANICAL MEANS TO KEEP THE SITE CLEAN OF DIRT, DUST, AND DEBRIS.
4. WASTE MATERIALS ON-SITE SHALL BE STORED IN COVERED CONTAINERS WHICH ARE CLEANED OUT REGULARLY.
5. FLUSHING OF FIRE HYDRANTS ON-SITE SHALL NOT BE CONDUCTED UNTIL THE AREA WHERE THE WATER DISCHARGES HAS BEEN SWEPT CLEAN OF DIRT AND DEBRIS.
6. STORM DRAIN INLETS SHALL BE CHECKED AND CLEANED ANNUALLY TO KEEP THEM CLEAN AND CLEAR OF DEBRIS.
7. ALL ON-SITE STORM WATER INLETS SHOULD BE CLEARLY MARKED "STORM WATER ONLY".

K. COMPLETION OF CONSTRUCTION ACTIVITIES AND NOTICE OF TERMINATION

WHEN CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED ON THIS SITE, THE OWNER SHALL FILE A LETTER WITH THE STATE DEQ DIVISION OF WATER QUALITY. THIS LETTER SHALL CERTIFY THAT THE CONSTRUCTION ACTIVITY HAS BEEN COMPLETED, THAT ALL ELEMENTS OF THE SWPPP HAVE BEEN IMPLEMENTED, THAT CONSTRUCTION AND EQUIPMENT MAINTENANCE WASTES HAVE BEEN DISPOSED OF PROPERLY, AND THE SITE IS IN COMPLIANCE WITH ALL LOCAL STORM WATER REQUIREMENTS INCLUDING EROSION/SEDIMENT CONTROL REQUIREMENTS, POLICIES, AND GUIDELINES.

DEFINITIONS

1. "BEST MANAGEMENT PRACTICES" ("BMPS") MEANS SCHEDULES OF ACTIVITIES, PROHIBITIONS OF PRACTICES, MAINTENANCE PROCEDURES, AND OTHER MANAGEMENT PRACTICES TO PREVENT OR REDUCE THE POLLUTION OF WATERS OF THE UNITED STATES. BMP'S ALSO INCLUDE TREATMENT REQUIREMENTS, OPERATING PROCEDURES, AND PRACTICES TO CONTROL SITE RUNOFF, SPILLAGE OR LEAKS, WASTE DISPOSAL, OR DRAINAGE FROM RAW MATERIAL STORAGE.
2. "CLEAN WATER ACT" ("CWA") MEANS THE FEDERAL WATER POLLUTION CONTROL ACT (ENACTED BY PUBLIC LAW 92-500 AS AMENDED BY PUBLIC LAWS 95-217, 95-576, 96-483, AND 97-117, 33 USC 1251 ET SEQ.
3. "CONSTRUCTION SITE" IS THE LOCATION OF THE CONSTRUCTION ACTIVITY.
4. "NON-STORM WATER DISCHARGE" MEANS ANY DISCHARGE TO STORM DRAIN SYSTEMS THAT IS NOT COMPOSED ENTIRELY OF STORM WATER (EXCEPT DISCHARGE PURSUANT TO AN APDES PERMIT AND DISCHARGES RESULTING FROM FIRE FIGHTING ACTIVITIES).
5. "SIGNIFICANT MATERIALS" INCLUDES, BUT IS NOT LIMITED TO: RAW MATERIALS; FUELS; MATERIALS SUCH AS SOLVENTS, DETERGENTS, AND PLASTIC PELLETS; FINISHED MATERIALS SUCH AS METALLIC PRODUCTS; RAW MATERIALS USED IN FOOD PROCESSING OR PRODUCTION HAZARDOUS SUBSTANCES DESIGNATED UNDER SECTION 101(14) OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA); ANY CHEMICAL THE FACILITY IS REQUIRED TO REPORT PURSUANT TO SECTION 313 OF TITLE III OF SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA); FERTILIZERS; PESTICIDES; AND WASTE PRODUCTS SUCH AS ASHES, SLAG, AND SLUDGE THAT HAVE THE POTENTIAL TO BE RELEASED WITH STORM WATER DISCHARGES.
6. "SIGNIFICANT QUANTITIES" IS THE VOLUME, CONCENTRATIONS, OR MASS OF A POLLUTANT IN STORM WATER DISCHARGE THAT CAN CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE, ADVERSELY IMPACT HUMAN HEALTH OR THE ENVIRONMENT, AND CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY APPLICABLE WATER QUALITY STANDARDS FOR THE RECEIVING WATER.
7. "STORM WATER" MEANS STORM WATER RUNOFF, SNOW MELT RUNOFF, SURFACE RUNOFF AND DRAINAGE. IT EXCLUDES INFILTRATION AND RUNOFF FROM AGRICULTURAL LAND.
8. "POLLUTION" MEANS THE "MAN-MADE OR MAN-INDUCED ALTERATION OF THE CHEMICAL, PHYSICAL, BIOLOGICAL, AND RADIOLOGICAL INTEGRITY OF WATER" (CLEAN WATER ACT SECTION 502(19)). POLLUTION ALSO MEANS "AN ALTERATION OF THE QUALITY OF THE WATERS OF THE STATE BY WASTE TO A DEGREE WHICH UNREASONABLY AFFECTS EITHER... THE WATERS FOR DOMESTIC USES... OR FACILITIES WHICH SERVE THESE DOMESTIC USES." (CALIFORNIA WATER CODE SECTION 13050(l))
9. "CONTAMINATION" MEANS "AN IMPAIRMENT OF THE QUALITY OF THE WATERS OF THE STATE BY WASTE TO A DEGREE WHICH CREATES A HAZARD TO THE PUBLIC HEALTH THROUGH POISONING OR THROUGH THE SPREAD OF DISEASE...INCLUDING ANY EQUIVALENT EFFECT RESULTING FROM THE DISPOSAL OF WASTE, WHETHER OR NOT WATERS OF THE STATE ARE AFFECTED."
10. "NUISANCE" MEANS "ANYTHING WHICH MEETS ALL OF THE FOLLOWING REQUIREMENTS: (1) IS INJURIOUS TO HEALTH, OR IS INDECENT OR OFFENSIVE TO THE SENSES, OR AN OBSTRUCTION TO THE FREE USE OF PROPERTY, SO AS TO INTERFERE WITH THE COMFORTABLE ENJOYMENT OF LIFE AND PROPERTY, (2) AFFECTS AT THE SAME TIME AN ENTIRE COMMUNITY OR NEIGHBORHOOD, OR ANY CONSIDERABLE NUMBER OF PERSONS, ALTHOUGH THE DEGREE OF THE ANNOYANCE, OR DAMAGE INFLICTED UPON INDIVIDUALS MAY BE UNEQUAL, (3) OCCURS DURING OR AS A RESULT OF THE TREATMENT OR DISPOSAL OF WASTES."
11. "LOCAL AGENCY" MEANS ANY AGENCY THAT IS INVOLVED WITH REVIEW, APPROVAL, OR OVERSIGHT OF THE CONSTRUCTION SITES' (a) CONSTRUCTION ACTIVITY, (b) EROSION AND SEDIMENT CONTROLS, (c) STORM WATER DISCHARGE.



SILT FENCE DETAIL

SWPPP NOTES

CONTACT ONE-CALL OF WYOMING
811 OR 1-800-849-2476
AT LEAST 48 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION

SILVERPEAK ENGINEERING
177 E. ANTELOPE DR. STE. B
LAYTON, UT 84041
PHONE (801) 499-5084
STRUCTURAL CIVIL SURVEY WWW.SILVERPEAKENG.COM

WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LN
MILLS, WYOMING

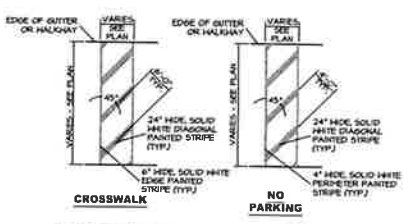
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DATE: 10-22-2020
PROJECT: AW-081
MANAGER: JMJ

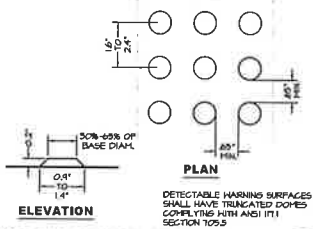
REVISIONS		
MARK	DATE / DESC	
1	09/02/2020 CITY REVIEW 1	
2	09/21/2020 CITY REVIEW 2	
3	10/02/2020 CITY REVIEW 3	
4	10/22/2020 PC REVIEW	

SWPPP NOTES

SHEET NUMBER
C601

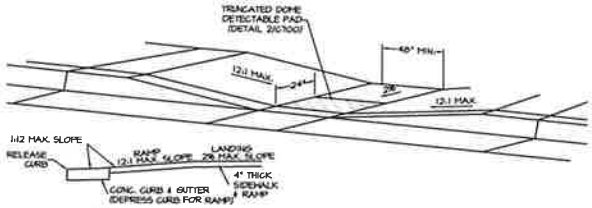


STRIPING DETAILS
NOT TO SCALE — 1



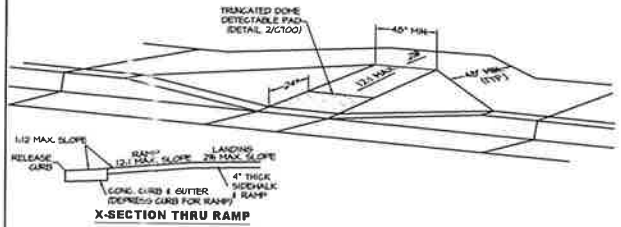
DETECTABLE WARNING SURFACES SHALL HAVE TRUNCATED DOMES COMPLYING WITH ANSI A117.1 SECTION 705.5

TRUNCATED DOME DETECTABLE PAD
NOT TO SCALE — 2



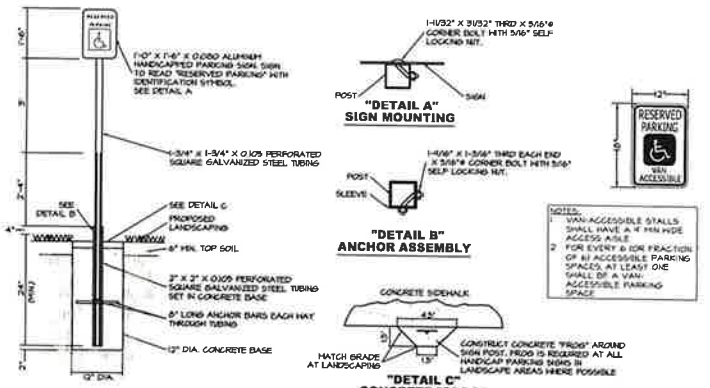
X-SECTION THRU RAMP

ADA RAMP
NOT TO SCALE — 3



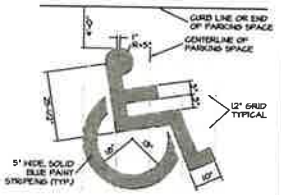
X-SECTION THRU RAMP

ADA RAMP
NOT TO SCALE — 4



HANDICAPPED PARKING SIGN

HANDICAP PARKING SIGN DETAILS
NOT TO SCALE — 5

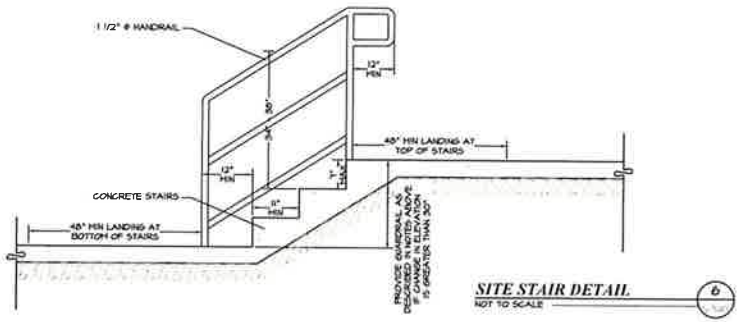


SITE RAMP AND HANDRAIL NOTES:

1. ALL RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12. RAMPS WITH A RISE GREATER THAN 6 INCHES SHALL HAVE HANDRAILS ON BOTH SIDES. LANDINGS SHALL HAVE A SLOPE NOT STEEPER THAN 1:48 IN ANY DIRECTION PER IBC
2. RAMPS SHALL HAVE LANDINGS AT THE BOTTOM AND TOP OF EACH RAMP. RAMP LANDINGS SHALL BE A MINIMUM OF 60" IN LENGTH AND AT LEAST AS WIDE AS THE RAMP RUN PER IBC
3. THE TOPS OF HANDRAIL SHALL BE PLACED NO LESS THAN 34" AND NO MORE THAN 38" ABOVE THE RAMP. THEY SHALL BE CONTINUOUS THE FULL LENGTH OF THE RAMP AND SHALL BE PROVIDED ON BOTH SIDES OF RAMP. PLUS 12" PAST THE RAMP AT THE TOP & BOTTOM OF THE RAMP. ENDS SHOULD RETURN TO HALL, GUARD, OR WALKING SURFACE. THE HAND GRIP PORTION OF HANDRAILS SHALL BE NOT LESS THAN 1 1/4" AND NO MORE THAN 2" IN CROSS-SECTIONAL DIMENSION OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. THE HAND GRIP PORTION OF HANDRAILS SHALL HAVE A SMOOTH SURFACE WITH NO SHARP CORNERS. HANDRAIL PROJECTING FROM A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1 1/2" BETWEEN THE WALL AND THE HANDRAIL PER IBC

SITE STAIR AND RAILING NOTES:

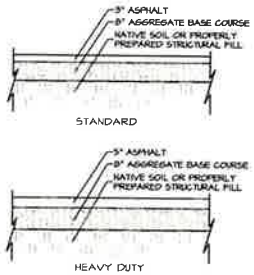
1. STAIR TREADS TO BE 11" MINIMUM AND RISERS TO BE 7" MAXIMUM
2. THE TOPS OF HANDRAIL SHALL BE PLACED NO LESS THAN 34" AND NO MORE THAN 38" ABOVE THE NOSING OF TREADS. THEY SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS AND SHALL BE PROVIDED ON BOTH SIDES OF STAIRWAY, PLUS 12" PAST THE STAIRS AT THE TOP OF THE STAIR WAY AND 1 RISER LENGTH PAST THE STAIRS AT THE BOTTOM OF THE STAIRWAY. ENDS SHOULD RETURN TO WALL, GUARD, OR WALKING SURFACE OR BE CONT. TO NEXT STAIR. THE HAND GRIP PORTION OF HANDRAILS SHALL BE NOT LESS THAN 1 1/4" AND NO MORE THAN 2" IN CROSS-SECTIONAL DIMENSION OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. THE HAND GRIP PORTION OF HANDRAILS SHALL HAVE A SMOOTH SURFACE WITH NO SHARP CORNERS. HANDRAIL PROJECTING FROM A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1 1/2" BETWEEN THE WALL AND THE HANDRAILS PER IBC
3. ALL OPEN SIDES OF LANDINGS AND STAIRS, BALCONIES, PORCHES, DECKS, AND UN-ENCLOSED FLOOR AND ROOF OPENINGS USED FOR OTHER THAN SERVICE HIGH ARE MORE THAN 30" ABOVE GRADE SHALL BE PROTECTED BY A GUARDRAIL. GUARDRAILS SHALL NOT BE LESS THAN 42" IN HEIGHT
4. GUARDRAILS SHALL HAVE INTERMEDIATE RAILS OR AN ORNAMENTAL PATTERN SUCH THAT NO OBJECT 4" IN DIAMETER CAN PASS THROUGH THE GUARDRAIL PER IBC
5. HANDRAILS NOT REQUIRED PER 2012 IBC 1004.15 EXCEPTION #3 FOR WALKWAYS HAVING A SINGLE CHANGE IN ELEVATIONS WHERE THE LANDING DEPTH ON EACH SIDE OF THE CHANGE OF ELEVATIONS IS GREATER THAN WHAT IS REQUIRED FOR A LANDING



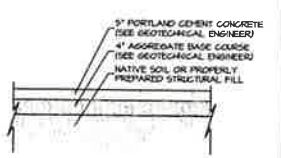
SITE STAIR DETAIL
NOT TO SCALE — 6



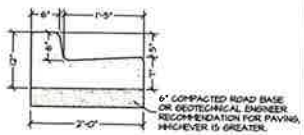
TYPICAL NO PARKING SIGN
NOT TO SCALE — 7



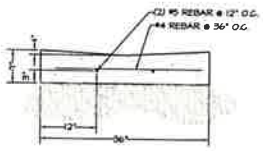
TYPICAL PARKING X-SECTION
NOT TO SCALE — 8



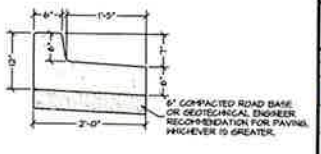
TYPICAL CONCRETE PAVING X-SECTION
NOT TO SCALE — 9



24" HIGH BACK CURB DETAIL
NOT TO SCALE — 11



3' WATER WAY
NOT TO SCALE — 10



24" RELEASE GUTTER DETAIL
NOT TO SCALE — 12

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WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LN
MILLS, WYOMING

SEAL

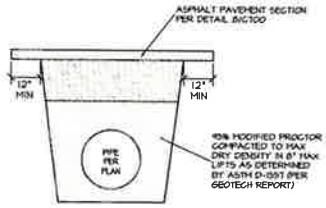
DATE: 10-22-2026
PROJECT: AW-081
MANGER: J R J

REVISIONS

MARK	DATE / DESC
1	09/03/2026 CITY REVIEW 1
2	09/23/2026 CITY REVIEW 2
3	10/02/2026 CITY REVIEW 3
4	10/22/2026 PC REVIEW

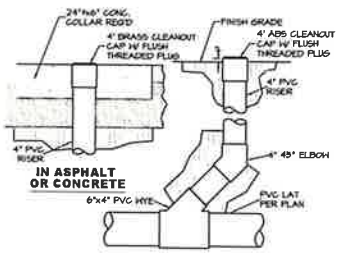
SITE DETAILS

SHEET NUMBER
C700



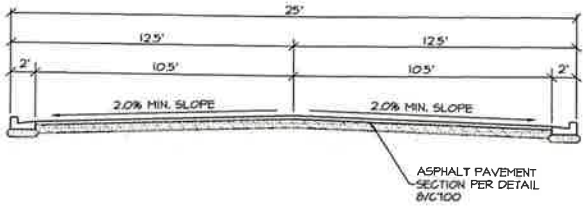
TYPICAL UTILITY TRENCH X-SECTION 1

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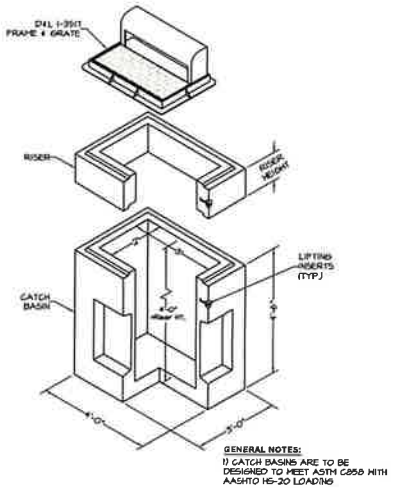
SANITARY SEWER CLEANOUT 2

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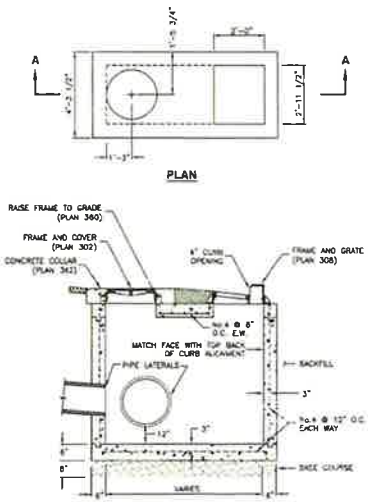
SOUTH DRIVE LANE X-SECTION 3

NOT TO SCALE



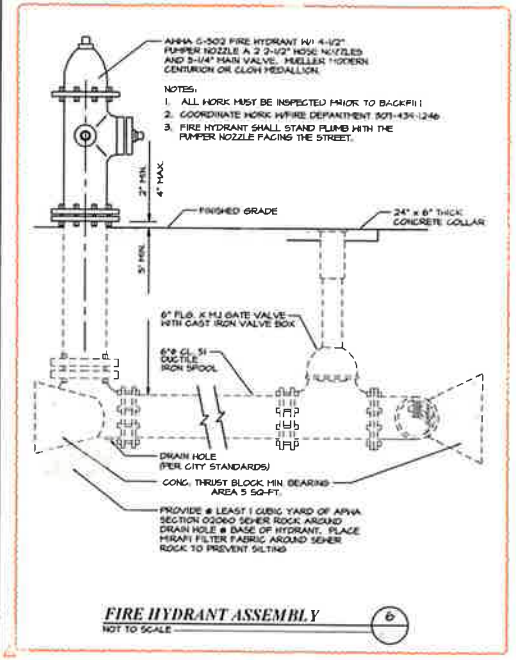
STORM DRAIN CATCH BASIN (SDCB) 4

NOT TO SCALE



STORM DRAIN COMBO BOX 5

NOT TO SCALE



FIRE HYDRANT ASSEMBLY 6

NOT TO SCALE

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WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LN
MILLS, WYOMING

SEAL

DATE: 10-22-2024
PROJECT: AW-081
MANGER: JWJ

REVISIONS

MARK	DATE / DESC
1	09/01/2024 CITY REVIEW 1
2	09/25/2024 CITY REVIEW 2
3	10/02/2024 CITY REVIEW 3
4	10/22/2024 PC REVIEW

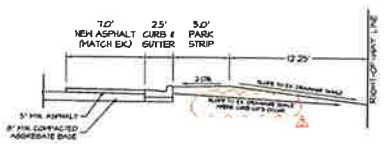
SILV DETAILS

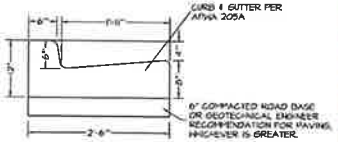
SHEET NUMBER
C701

WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LN
MILLS, WYOMING
SILVERPEAK
177 E ANTELOPE DR STE B
LAYTON, UT 84041
PHONE: (801) 499-5054
OVERALL GRADING DRAINAGE PLAN
C300
LEGEND
OVERALL GRADING /DRAINAGE PLAN
POISON SPIDER LANE
CONTACT ONE-CALL OF WYOMING

WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LN
MILLS, WYOMING
SILVERPEAK
1776 E ANTELOPE DR STE B
LAYTON, UT 84041
PHONE (801) 499-5054
C400
OVERALL UTILITY PLAN
LEGEND
POISON SPIDER LANE

WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LN
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177 E. ANTELOPE DR STE B
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PHONE: (801) 499-5054
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STRUCTURAL CIVIL SURVEY
DATE 10.22.2025
PROJECT AW.081
MANAGER J.W.J.
REVISIONS
MARK DATE / DESC.
SHEET NUMBER C401
ENLARGED UTILITY PLAN
ENLARGED UTILITY PLAN
CONTACT ONE-CALL OF WYOMING AT LEAST 48 HOURS PRIOR TO CONSTRUCTING FOR LOCATIONS
LEGEND
POISON SPIDER LANE
(80' WIDE)
EX. 56MH
EX. 56MH LOWER RIM TO FIT
EXPAND BY PATCH
1320 SF
MATCH TO BLDG SHEET A ARCH PLANS FOR STEP DETAILS

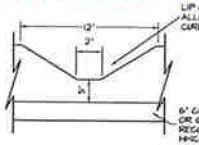




30" HIGH BACK CURB DETAIL

POISON SPIDER LANE IMPROVEMENTS
SCALE: 1"=5'

1

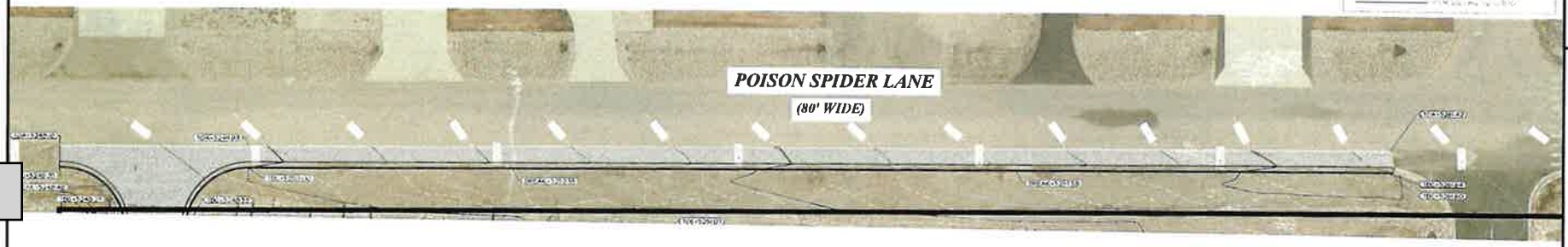


NOTE: CURB CUTS OCCUR ON POISON SPIDER LANE AT GRADE BREAKS SEE IMPROVEMENT PLAN.

TYPICAL CURB CUT DETAIL
NOT TO SCALE

2

LEGEND





0 20 40 80
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

POISON SPIDER LANE IMPROVEMENT PLAN

CONTACT ONE-CALL OF WYOMING AT LEAST 48 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION

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177 E. ANTELOPE DR. STE B
LAYTON, UT 84041
PHONE: (801) 499-5054

WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LN
MILLS, WYOMING

SEAL

DATE: 10.22.2026
PROJECT: AW-081
MANAGER: J.K.J

REVISIONS

MARK	DATE / DESC.
1	09.10.2026
2	09.11.2026
3	09.22.2026
4	10.20.2026
5	10.22.2026

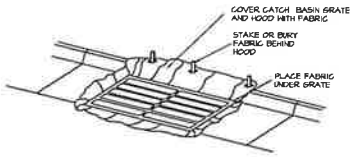
POISON SPIDER LANE IMPROVEMENT PLAN

SHEET NUMBER:
C500

WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LN
MILLS, WYOMING
SILVERPEAK
1176 E. ANTELOPE DR STE B
LAYTON, UT 84041
PHONE: (801) 499-5054
STRUCTURAL CIVIL SURVEY WWW.SILVERPEAKENG.COM
DATE: 10.22.2024
PROJECT MANAGER: J.H.J.
REVISIONS
NO. DATE / DESC.
SHEET NUMBER
C600
SWPPP
LEGEND
POISON SPIDER LANE
CONTACT ONE-CALL OF WYOMING
811

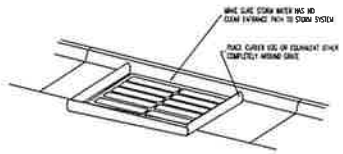
STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

WYOMING CLASSICAL ACADEMY



FABRIC UNDER GRATE

MAINTENANCE: LIFT GRATE & CLEAN SEDIMENT OFF OF FABRIC WEEKLY & AFTER A STORM. TAKE CARE WHILE LIFTING GRATE TO PREVENT SEDIMENT FROM FALLING INTO THE CATCH BASIN. DISPOSE OF SEDIMENT AWAY FROM THE STORM DRAIN.



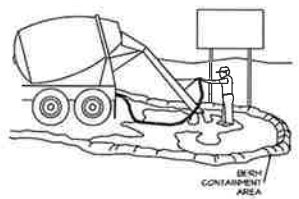
CURLEX LOG (STRAW/CLOTH SACK)

MAINTENANCE: REMOVE & CLEAN CURLEX LOGS THOROUGHLY EACH WEEK OR AFTER A STORM. TAKE CARE WHILE MOVING ROCK SACKS TO PREVENT SEDIMENT FROM FALLING INTO THE CATCH BASIN. DISPOSE OF SEDIMENT AWAY FROM THE STORM DRAIN.

INLET PROTECTION

NOTES

1. USE FABRIC UNDER GRATE TO PROTECT THE CATCH BASIN FROM SEDIMENTATION



CONCRETE WASTE MANAGEMENT

NOTES.

1. EXCESS AND WASTE CONCRETE SHALL NOT BE WASHED INTO THE STREET OR INTO A DRAINAGE SYSTEM.

2. FOR WASHOUT OF CONCRETE AND MORTAR PRODUCTS, A DESIGNATED CONTAINMENT FACILITY OF SUFFICIENT CAPACITY TO RETAIN LIQUID AND SOLID WASTE SHALL BE PROVIDED ON SITE. THIS DISCHARGE AREA MUST BE LINED WITH AN IMPERMEABLE BARRIER.

3. SLURRY FROM CONCRETE AND ASPHALT SAW CUTTING SHALL BE VACUUMED OR CONTAINED, DRIED, PICKED UP, AND DISPOSED OF PROPERLY.

CONSTRUCTION & BMP SEQUENCING

BMP INSPECTION AND MAINTENANCE SHALL BEGIN WITH THE INSTALLATION OF THE FIRST BMP AND CONTINUE UNTIL THE LAST BMP (REVEGETATION) HAS BEEN COMPLETED.

CATCH BASIN PROTECTION

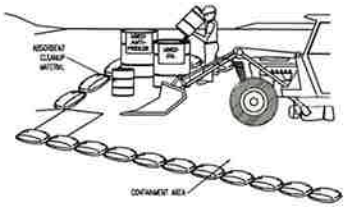
1. CATCH BASIN PROTECTION PER DETAIL LABELED "CURLEX LOG" AND/OR "FABRIC UNDER GRATE" SHALL BE INSTALLED UPON COMPLETION OF STORM DRAIN CONSTRUCTION.
2. FOR CATCH BASINS LOCATED IN CURB AND GUTTER:
   - A. "CURLEX LOG" SHALL REMAIN IN PLACE UNTIL CURB AND GUTTER IS CONSTRUCTED.
   - B. CATCH BASIN PROTECTION PER DETAIL LABELED "FABRIC UNDER GRATE" SHALL BE INSTALLED UPON COMPLETION OF CURB AND GUTTER CONSTRUCTION, AND SHALL REMAIN IN PLACE UNTIL ALL FINISH GRADING IS COMPLETED.
3. FOR CATCH BASINS LOCATED IN LANDSCAPE AREAS:
   - A. "CURLEX LOG" SHALL REMAIN IN PLACE UNTIL SITE GRADING OCCURS.
   - B. CATCH BASIN PROTECTION PER DETAIL LABELED "CURLEX LOG" AND/OR "FABRIC UNDER GRATE" SHALL BE INSTALLED UPON COMPLETION OF SITE GRADING, AND SHALL REMAIN IN PLACE UNTIL ALL GRADING & LANDSCAPING IS COMPLETED.

CONCRETE WASTE MANAGEMENT

1. A CONCRETE WASTE MANAGEMENT FACILITY SHALL BE CONSTRUCTED PRIOR TO POURING ANY CONCRETE ON THE SITE, AND SHALL REMAIN IN PLACE UNTIL THE LAST CONCRETE POUR HAS BEEN COMPLETED.
2. CONTRACTOR IS TO REVIEW THE CONCRETE WASTE MANAGEMENT FACILITY BY LOCALLY REMOVING AND DISPOSING OF WASTE CONCRETE AND, IF NECESSARY, ANY NON-SOIL BERM MATERIALS.

REVEGETATION

1. SEEDING AND PLANTING OF THE SITE PER THE LANDSCAPE PLAN SHALL OCCUR WITHIN 14 DAYS OF COMPLETION OF THE FINISH GRADING, IF SAID 14 DAYS OCCUR BETWEEN APRIL 15 AND SEPTEMBER 15. OTHERWISE, SEEDING AND PLANTING SHALL BEGIN APRIL 15.
2. PLANTING EFFORTS SHALL BE COMPLETED WITHIN 15 DAYS.
3. SEEDING AND PLANTING SHALL BE CONSIDERED COMPLETE WHEN 70% OF PLANTINGS ARE ESTABLISHED.



EQUIPMENT MAINTENANCE/REPAIR

NOTES.

1. LEAKING VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED ON-SITE. EQUIPMENT AND VEHICLES SHALL BE INSPECTED FREQUENTLY FOR LEAKS AND SHALL BE REPAIRED IMMEDIATELY. CLEAN UP SPILLS AND LEAKS PROMPTLY WITH ABSORBENT MATERIALS. DO NOT FLUSH WITH WATER.

2. VEHICLES AND EQUIPMENT SHALL BE MAINTAINED, AND REPAIRED ON-SITE ONLY IN DESIGNATED AREAS. PREVENT RUN-ON AND RUN-OFF FROM DESIGNATED AREAS.

3. CONTAINMENT DEVICES SHALL BE PROVIDED AND AREAS SHALL BE COVERED IF NECESSARY.

4. DESIGNATE ON-SITE VEHICLE AND EQUIPMENT MAINTENANCE AREAS, AWAY FROM STORM DRAIN INLETS AND WATERCOURSES.

5. ALWAYS USE SECONDARY CONTAINMENT, SUCH AS A DRAIN PAN OR DROP CLOTH TO CATCH SPILLS AND LEAKS WHEN REMOVING OR CHANGING FLUIDS. LEGALLY DISPOSE OF USED OILS, FLUIDS AND LUBRICANTS.

6. PROVIDE SPILL CONTAINMENT DIKES OR SECONDARY CONTAINMENT AROUND STORED OIL, FUEL, AND CHEMICAL DRUMS.

7. MAINTAIN AN ADEQUATE SUPPLY OF ABSORBENT SPILL CLEANUP MATERIALS IN DESIGNATED AREAS.

STORM WATER POLLUTION PREVENTION PLAN SPECIFIC NOTES

I. THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WAS DEVELOPED AT THE REQUEST OF THE OWNER FOR THE CONSTRUCTION OF [illegible] CONSTRUCTION IN THE CITY OF MILLS, IN PLEASANT COUNTY, STATE OF WYOMING. THIS PLAN IDENTIFIES POTENTIAL SOURCES OF POLLUTANTS OF STORM WATER, PRESENTS POLLUTION CONTROL MEASURES, AND ASSISTS IN ENSURING IMPLEMENTATION AND MAINTENANCE OF THE BEST MANAGEMENT PRACTICES (BMP'S) INDICATED HEREIN.

II. A NOTICE OF INTENT SHALL BE FILED WITH THE STATE OF WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY BY THE OWNER SO THAT THIS CONSTRUCTION PROJECT MAY BE COVERED UNDER THE STATE GENERAL PERMIT. THE PERMIT IS STATE OF WYOMING LARGE CONSTRUCTION (LCGP) GENERAL PERMIT (ONE TYPE 100000) FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. PERMIT FORMS ARE AVAILABLE FOR DOWNLOAD FROM THE DEPARTMENT OF ENVIRONMENTAL QUALITY AT WWW.DEQ.WYOMING.GOV/WATER-QUALITY/WYPDES/DISCHARGE-PERMITTING/

III. IN THE EVENT OF A CHANGE IN OWNERSHIP, A NEW NOTICE OF INTENT SHALL BE FILED WITH THE DEPARTMENT OF ENVIRONMENTAL QUALITY.

IV. IN THE EVENT OF A RELEASE OF A REPORTABLE QUANTITY OF A POLLUTANT, THE CONTRACTOR SHALL ADVISE THE OWNER TO NOTIFY THE WYOMING RESPONSE CENTER, [illegible] AND SILVERPEAK ENGINEERING. IF NECESSARY, THIS SWPPP SHALL BE REVISED TO REFLECT THE CHANGE IN CONDITIONS OF THE CONSTRUCTION ACTIVITY. A REPORTABLE QUANTITY IS ESTABLISHED BY 40 CODE OF FEDERAL REGULATIONS (CFR) 117.3 OR 40 CFR 302.4.

V. ALL CONTRACTORS AND THEIR PERSONNEL WHOSE WORK CAN CONTRIBUTE TO OR CAUSE POLLUTION OF STORM WATER SHALL BE MADE FAMILIAR WITH THIS SWPPP PLAN. ADEQUATE TRAINING FOR IMPLEMENTATION OF THE MEASURES PRESENTED HEREIN SHALL BE PROVIDED TO THE CONTRACTORS AND THEIR PERSONNEL. ALL CONTRACTORS AND SUBCONTRACTORS, EVEN ON RESIDENTIAL CONSTRUCTION WITH DISTURBANCE AREAS LESS THAN ONE ACRE, SHALL ABIDE BY THIS SWPPP.

VI. CHANGES IN CONSTRUCTION OR IN CONDITIONS WHICH ARE NOT COVERED BY THIS SWPPP SHALL BE BROUGHT TO THE ATTENTION OF THE DEVELOPMENT OWNER AND SILVERPEAK ENGINEERING. IF NECESSARY, THIS SWPPP WILL BE REVISED TO REFLECT THE CHANGE IN CONSTRUCTION OR IN CONDITIONS.

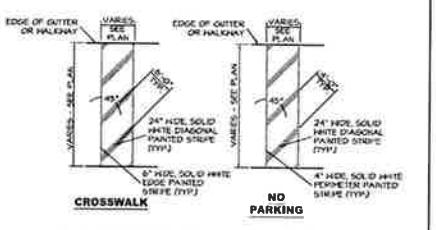
VII. ALL PREVENTION AND CLEAN UP MEASURES SHALL BE CONDUCTED IN ACCORDANCE WITH [illegible] ORDINANCES AS WELL AS STATE AND FEDERAL REGULATIONS. WASTE MATERIALS SHOULD BE DISPOSED OF IN A LEGAL MANNER. ALL DISCHARGES OF STORM WATER MUST COMPLY WITH THE LAWFUL REQUIREMENTS OF [illegible] REGARDING THE DISCHARGES OF STORM WATER TO STORM DRAINS.

VIII. THIS SWPPP DOES NOT COVER THE REMOVAL OF HAZARDOUS OR TOXIC WASTE. IN THE EVENT OF A DISCHARGE OR RELEASE OF A REPORTABLE QUANTITY OF TOXIC WASTE, WORK SHALL BE STOPPED UNTIL THE SPILL CAN BE ASSESSED AND A MITIGATION REPORT PREPARED BY A QUALIFIED ENVIRONMENTAL CONSULTANT, AND IF NECESSARY, REVIEWED BY [illegible] AND ANY OTHER AGENCY HAVING JURISDICTION.

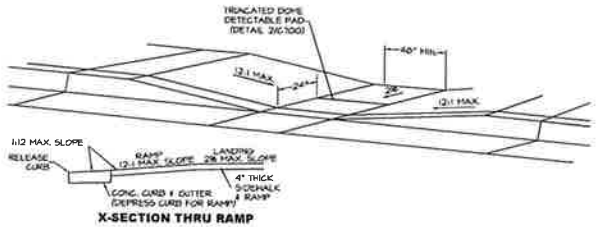
IX. THIS SWPPP SHALL BE MADE AVAILABLE TO THE PUBLIC UNDER SECTION 308(B) OF THE CLEAN WATER ACT. UPON REQUEST BY MEMBERS OF THE PUBLIC, THE DISCHARGER SHALL MAKE AVAILABLE FOR REVIEW A COPY OF THIS SWPPP EITHER TO THE DEPARTMENT OF ENVIRONMENT QUALITY OR DIRECTLY TO THE REQUESTER. THIS SWPPP MUST BE KEPT ON SITE DURING CONSTRUCTION ACTIVITY AND MADE AVAILABLE UPON REQUEST OF A REPRESENTATIVE OF THE DIVISION OF WATER QUALITY AND/OR THE LOCAL AGENCY.

X. CONTACTS

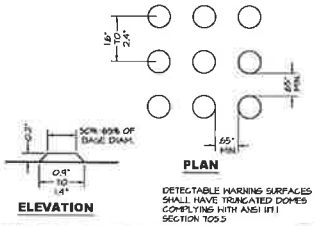
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[illegible]	
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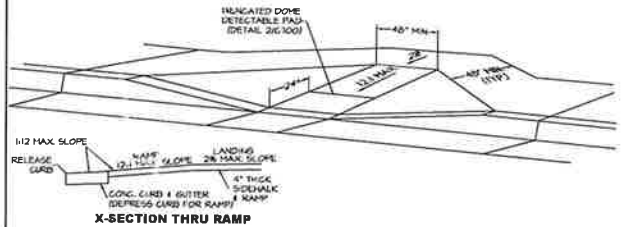
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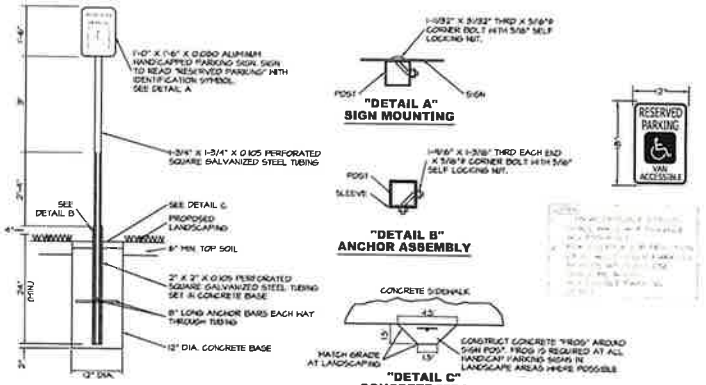
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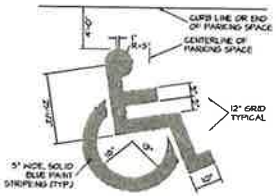
TRUNCATED DOME DETECTABLE PAD — NOT TO SCALE — 2



ADA RAMP — NOT TO SCALE — 4

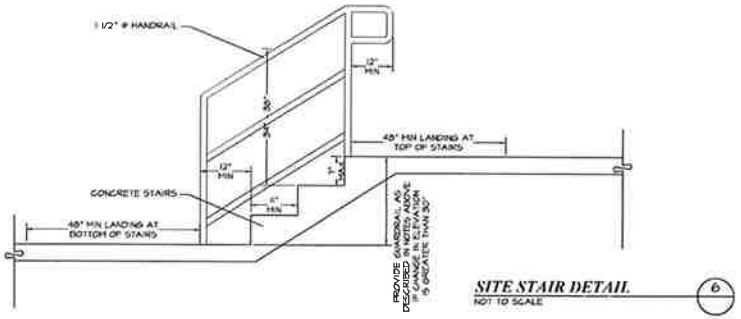


HANDICAP PARKING SIGN DETAILS — NOT TO SCALE — 5





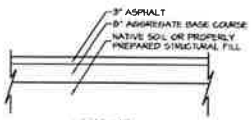




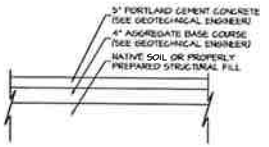
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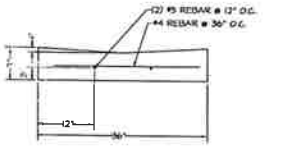
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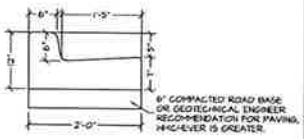
TYPICAL PARKING X-SECTION — NOT TO SCALE — 8



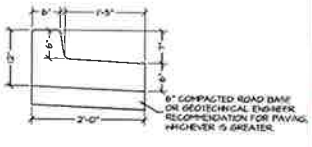
TYPICAL CONCRETE PAVING X-SECTION — NOT TO SCALE — 9



3' WATER WAY — NOT TO SCALE — 10



24" HIGH BACK CURB DETAIL — NOT TO SCALE — 11



24" RELEASE GUTTER DETAIL — NOT TO SCALE — 12

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WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LN
MILLS, WYOMING

MAL

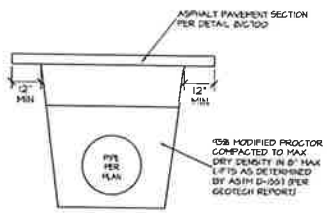
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PROJECT AW-081
MANGER JRJ

REVISIONS

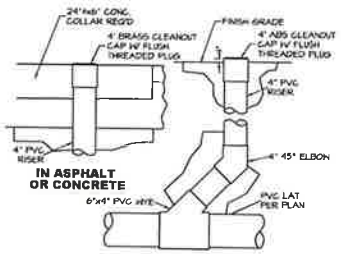
MARK	DATE / DESC
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2	11/21/2025 CITY REVIEW 2
3	12/22/2025 CITY REVIEW 3
4	1/8/2026 CITY REVIEW 4

SITE DETAILS

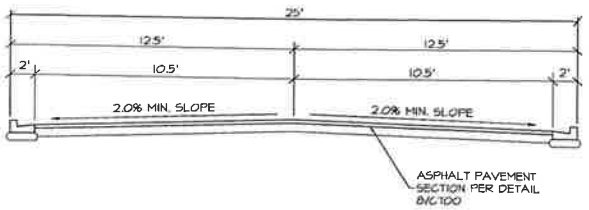
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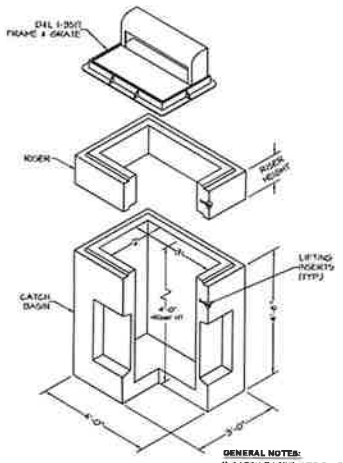
TYPICAL UTILITY TRENCH X-SECTION (1)
NOT TO SCALE



SANITARY SEWER CLEANOUT (2)
NOT TO SCALE

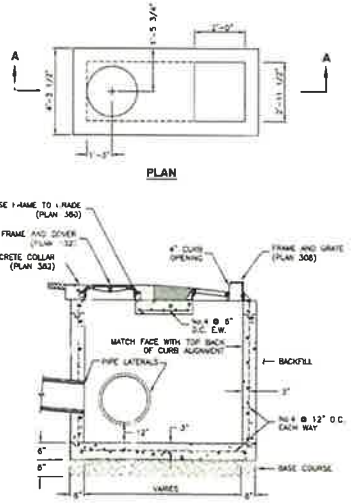


SOUTH DRIVE LANE X-SECTION (3)
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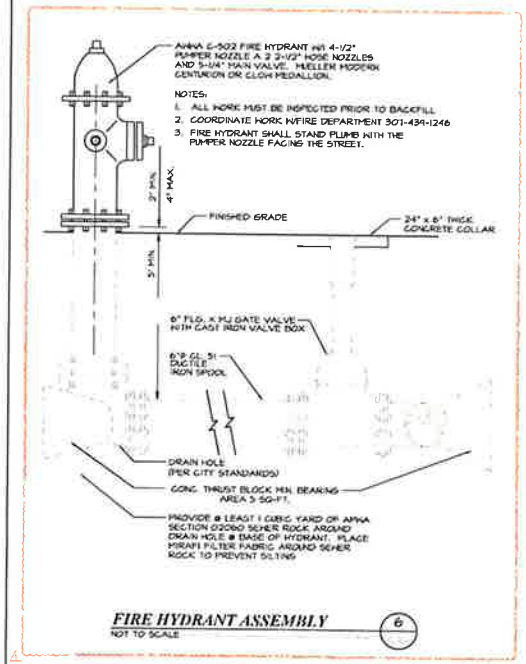


GENERAL NOTES:
1) CATCH BASINS ARE TO BE DESIGNED TO MEET ASTM C858 WITH AASHTO HS-20 LOADING

STORM DRAIN CATCH BASIN (SDCB) (4)
NOT TO SCALE



STORM DRAIN COMBO BOX (5)
NOT TO SCALE



FIRE HYDRANT ASSEMBLY (6)
NOT TO SCALE

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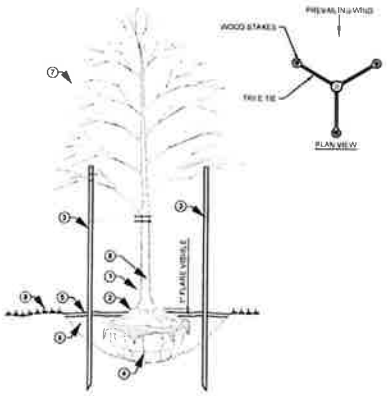
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PROJECT: AW-081
MANGER: J.R.J.

REVISIONS

MARK	DATE / DESC
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2	09/30/2026 CITY REVIEW 2
3	10/22/2026 PC REVIEW

SITE DETAILS

SHEET NUMBER
C701

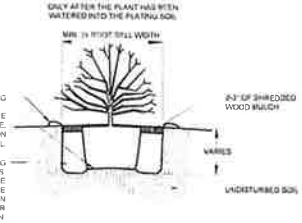


LEGEND

1. GRAFT UNION TYP 4-6" ABOVE ROOT FLARE.
2. ROOT FLARE VISIBLE ABOVE FINISH GRADE. REMOVE EXCESS SOIL FROM BALL AS NEEDED
3. THREE (3) 5'-8" LONG x 1.5" ROUND TAPERED WOOD POSTS PER TREE. 14 GA. SOFT WIRE AND 1-1/2"x 16" NYLON STRAP WITH BRASS GROMET TIES ON TRUNK. STAKES SHALL NOT PENETRATE ROOT BALL. MAKE TIE 4 OF THE WAY UP TREE. DO NOT OVER-TIGHTEN AROUND TREE. TIES SHOULD BE SNUG ENOUGH TO PROVIDE SUPPORT WHILE ALLOWING TREE TO SWAY. CONTRACTOR TO REMOVE STAKES & TIES AT END OF WARRANTY PERIOD
4. REMOVE ALL WIRE BASKET & ALL BURLAP. INSPECT ROOT BALL AND PRUNE OFF AND GIRDLING ROOTS. PRESS ALL HAIR ROOTS DOWN UNDER STRUCTURAL ROOT FLARE TO LEAVE TRUNK & ROOT FLARE RADIALLY. BOTTOM OF ROOT BALL TO REST ON UNDISTURBED OR RECOMPACTED SOIL
5. 3" MULCH IN TREES DRIP RING AREA. NO WEED BARRIER. END MULCH 3" FROM TRUNK
6. DIG HOLE MIN. 3x WIDTH OF BALL, ROUGHEN SIDES TO BREAK GLAZING. ROOT BALL TO REST ON UNDISTURBED OR RECOMPACTED SOIL. BACKFILL HOLE WITH EXISTING SOIL (IN BODY TO SANDY LOAM SOILS ADD 20% MAX. BY VOLUME ORGANIC MATERIAL) IN LAYERS SETTLE WITH WATER. WATER IN THOROUGHLY AFTER INSTALLATION TO ELIMINATE AIR POCKETS
7. PRUNE AS NEEDED TO RETAIN NATURAL FORM
8. REMOVE ASPHALT COATED PAPER TREE WRAP TO BOTTOM OF FIRST BRANCH. SECURE WITH ELECTRICAL TAPE. DO NOT WRAP TIGHTLY. CONTRACTOR TO REMOVE PAPER AT END OF WARRANTY PERIOD
9. FINISH GRADE - SLOPE AWAY FROM TREES WHEREVER POSSIBLE.

1 TYPICAL TREE PLANTING

NOT TO SCALE



NOTES

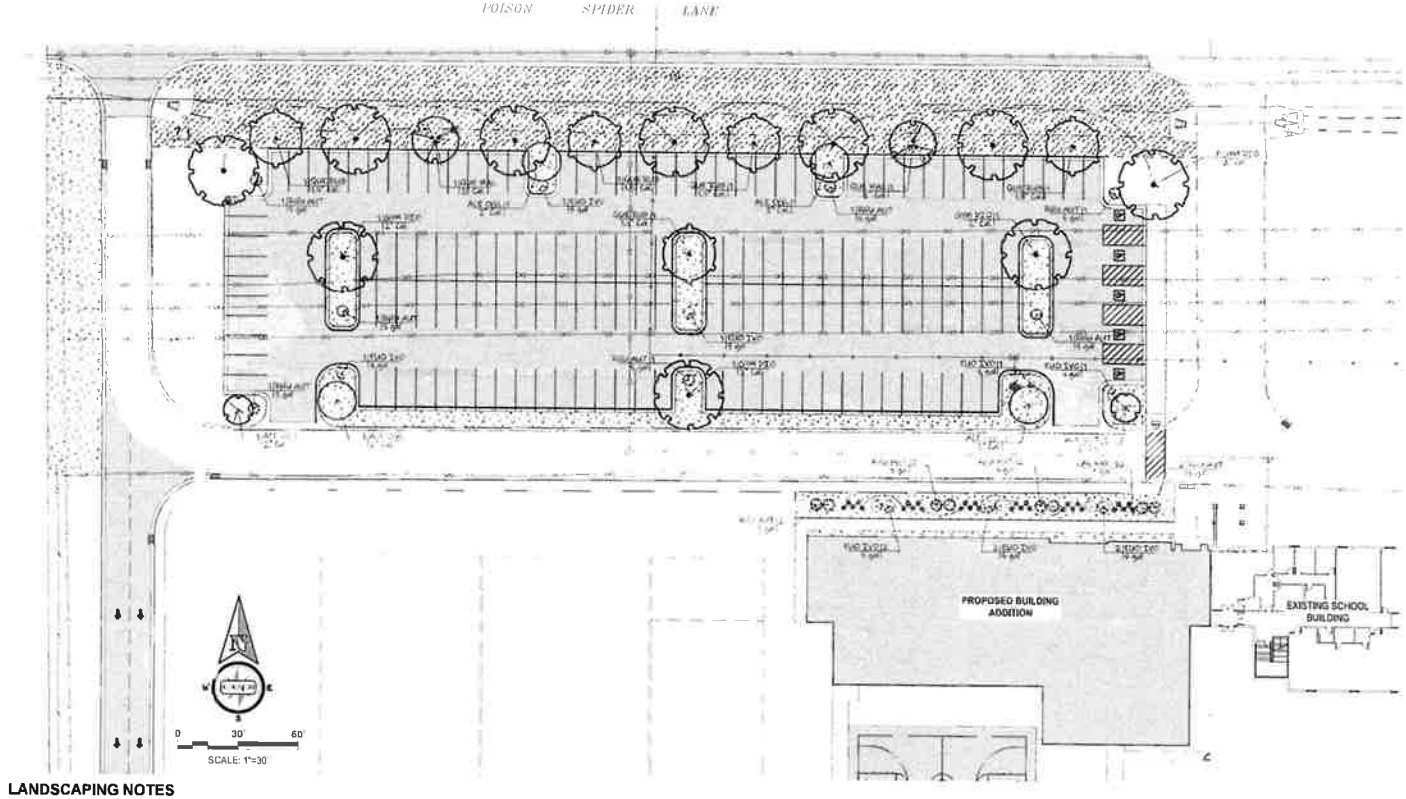
1. PRUNE PLANT AS NEEDED TO RETAIN NATURAL FORM

2 TYPICAL SHRUB PLANTING

NOT TO SCALE

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	QTY
	2-3" RIVER ROCK MULCH AT 3" THICK OVER LANDSCAPE FABRIC	15,194 SF
	TYPE 2 NATIVE GRASS SEED CASPER, WY	21,301 SF
	RT FESCUE SOD	6,216 SF
7	4" MIN POWDER COATED STEEL LANDSCAPE EDGING	144 LF



LANDSCAPING NOTES

1. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INSTALLATION. EXCAVATION, OR PLANTING OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES ON SITE OR ADJACENT PROPERTY SHALL BE CONTRACTORS RESPONSIBILITIES.
2. ALL PLANT MATERIAL SHALL CONFORM TO THE CURRENT AMERICAN ASSOCIATION OF NURSERYMANS NATIONAL STANDARD SPECIFICATIONS.
3. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE PREPARED AND SEEDED OR SODDED AS SPECIFIED. A DISTURBED AREA SHALL BE WHERE CONSTRUCTION ACTIVITIES INCLUDING TRENCHING, DEMOLITION, EARTHWORK, MATERIAL STORAGE, STAGING AND PARKING OR ANY OTHER FORM OF EXCAVATION, COMPACTION, OR TRAFFIC THAT RESULTS IN THE REMOVAL OR DISPLACEMENT OF EXISTING GROUNDCOVER OR GRADE. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW ALL OTHER CONTRACT DOCUMENTS TO DETERMINE FULL SCOPE OF POTENTIAL SITE DISTURBANCE TO BE RESTORED.
4. IRRIGATION SYSTEM TO BE DESIGNED AND INSTALLED TO CORRESPOND WITH THE LANDSCAPE PLANTINGS. CONTRACTOR TO DOCUMENT DESIGN AND SUBMIT AS-BUILT UPON COMPLETION. THE INSTALLATION OF LAWNS, PLANT MATERIAL AND IRRIGATION SYSTEM SHALL BE PERFORMED BY ONE CONTRACTOR.
5. CONTRACTOR SHALL FURNISH REQUIRED PLANT MATERIALS, INCLUDING TREES, SHRUBS, GRASSES, AND PERENNIALS OF ALL DESCRIPTIONS, FOR THE PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATION.
6. IN THE EVENT OF A DISCREPANCY, NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY.
7. NO TREES SHALL BE PLANTED CLOSER THAN 10' TO A FIRE HYDRANT, ADJUST LAYOUT IF NECESSARY.
8. NO TREE OR SHRUB SHALL BE PLANTED OVER OR WITHIN 5' LATERALLY FROM ANY UNDERGROUND UTILITIES.
9. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT WRITTEN CONSENT FROM THE LANDSCAPE ARCHITECT.
10. CONTRACTOR SHALL PROVIDE PLANTS FREE FROM INSECTS AND DISEASES, SUNSCALD INJURIES, ABRASIONS OF THE BARK, OR OTHER OBJECTIONABLE BLEMISHES. WEAK AND/OR DISFIGURED PLANTS WILL NOT BE ACCEPTED.
11. CONTRACTOR SHALL FURNISH REQUIRED PLANT MATERIALS, INCLUDING TREES, SHRUBS, GRASSES, AND PERENNIALS OF ALL DESCRIPTIONS, FOR THE PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATION. IN WHICH THEY ARE GROWING. WRAPPED IN BURLAP OR OTHER SUITABLE MATERIAL TO COMPLETELY COVER THE ROOT BALL WITH A LACING OR OTHER BALL SUPPORTING DEVICE ON THE OUTSIDE TO HOLD THE BALL IN A FIRM, RIGID CONDITION.
12. CONTAINER GROWN PLANTS SHALL BE HEALTHY, VIGOROUS, AND ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE GROWN. THEY SHALL HAVE TOPS OF GOOD QUALITY AND BE IN A HEALTHY GROWING CONDITION. THE PLANTS SHALL HAVE A WELL-ESTABLISHED ROOT SYSTEM REACHING THE SIDE S OF THE CONTAINER TO MAINTAIN A FIRM ROOT BALL.
13. CONTRACTOR SHALL PROVIDE FIELD GROWN NURSERY TREES DUG WITH A BALL OF EARTH STILL INTACT IN WHICH THEY ARE GROWING. WRAPPED IN BURLAP OR OTHER SUITABLE MATERIAL TO COMPLETELY COVER THE ROOT BALL WITH A LACING OR OTHER BALL SUPPORTING DEVICE ON THE OUTSIDE TO HOLD THE BALL IN A FIRM, RIGID CONDITION.
14. ALL 1.5-2" CALIPER DECIDUOUS TREES SHALL HAVE A SINGLE LEADER, 12'-14' HEIGHT, BRANCHING AT 6 - 7FT HEIGHT WITH A UNIFORM CANOPY BRANCHING. BRANCH ANGLES SHALL BE NO LESS THAN 30°.
15. ALL 6-8' TALL EVERGREEN TREES SHALL HAVE A HEIGHT TO SPREAD RATIO OF 1:2 WITH A SINGLE LEADER.
16. CONTRACTOR SHALL PROVIDE PLANT MATERIAL IN CONFORMANCE WITH STATE AND FEDERAL LAWS WITH RESPECT TO INSPECTION FOR PLANT DISEASE AND INFECTIONS.
17. CONTRACTOR SHALL PROVIDE INSPECTION CERTIFICATES REQUIRED BY LAW WITH EACH SHIPMENT, INVOICE, OR ORDER OF STOCK TO THE OWNER.
18. PLANT MATERIALS FOR THIS PROJECT ARE SUBJECT TO INSPECTION BEFORE, DURING, AND POST PLANTING. DAMAGED PLANT MATERIAL, CONTAINERS OR LOOSE, TORN, AND BROKEN ROOT BALLS WILL NOT BE APPROVED BY THE OWNER AND WILL BE REPLACED AT THE CONTRACTORS EXPENSE AND MUST BE REMOVED FROM THE STORAGE AREA OR PROJECT.
19. MAINTENANCE SERVICES TO BE PERFORMED BY THE CONTRACTOR. THE CONTRACTOR WILL BE EXPECTED TO FURNISH SERVICE AND MAINTENANCE OF ALL PLANTED AREAS THROUGH FINAL COMPLETION OR PROJECT OR AS REQUIRED PER THE REQUIREMENTS OF THE PROJECT WARRANTY PERIOD.
20. ALL PLANT MATERIALS SHALL BE CERTIFIED BY THE STATE DEPARTMENT OF AGRICULTURE TO ASSURE THEM TO BE FREE OF DISEASE OR HAZARDOUS INSECTS.
21. ALL FERTILIZER SHALL BE DELIVERED IN WATERPROOF BAGS SHOWING WEIGHT, CHEMICAL ANALYSIS, AND THE NAME OF THE MANUFACTURER.
22. ALL PLANT MATERIAL SHALL BE DELIVERED TO THE SITE IN THEIR ORIGINAL CONTAINERS WITH ALL LABELS INTACT AND LEGIBLE.
23. CONTRACTOR WILL BE RESPONSIBLE TO PROTECT AND MAINTAIN PLANT LIFE DURING THE STORAGE PERIOD PRIOR TO PLANTING.
24. INSTALLATION OF PLANT LIFE WILL NOT BE PERMITTED WHEN THE AMBIENT TEMPERATURES MAY DROP BELOW 30°F OR RISE ABOVE 90°F.
25. CONTRACTOR TO PROVIDE A ONE YEAR WARRANTY. WARRANTY TO INCLUDE COVERAGE FOR ONE ENTIRE GROWING SEASON FOR ALL DEAD OR UNHEALTHY PLANTINGS. ALL REPLACEMENT PLANTS SHALL BE REQUIRED TO BE OF THE SAME SIZE AND SPECIES AS SPECIFIED IN THE PLANT SCHEDULE. PLANTED IN THE FOLLOWING GROWING SEASON, WITH A NEW WARRANTY COMMENCING ON THE DATE OF PLACEMENT.
26. SOIL MATERIALS
    - ALL STAL BACKFILL WILL BE FREE OF ROCKS LARGER THAN 1.5", STICKS, ROOTS AND OTHER DEBRIS.
    - TOPSOIL TO BE STERILE, WEED FREE, PROCESSED, AND PASSED THROUGH A 2-4" SCREEN.
    - TOPSOIL TO BE INSTALLED IN ALL NEW SITE LANDSCAPE AREAS, NATIVE GRASS PLANTINGS, AND PLANTING RINGS OR IN ANY AREAS DESIGNATED IN THE PLANS FOR CONSTRUCTION.
27. SOIL AMENDMENT MATERIALS
    - COMPOST SHALL BE GLACIER GOLD, SOIL PREP, OR AN APPROVED EQUAL.
    - FERTILIZER SHALL BE 100% ORGANIC, TRANSPLANT ROOT STIMULATOR, "ROOTER TRANSPLANT CONCENTRATE" OR APPROVED EQUAL.
28. BOULDERS ENCOUNTERED DURING EXCAVATION FOR THE PROJECT SHALL BE HANDLED TO PREVENT SCARRING AND USED AS PART OF THE LANDSCAPING SCHEME. PLACE AS DIRECTED BY THE OWNER.
29. WEED BARRIER FABRIC SHALL BE WOVEN POLYPROPYLENE FABRIC, 4.5OZ. GOUND, OR HEAVIER WITH METAL LANDSCAPE PINS. DO NOT INSTALL WEED BARRIER UNDER PERENNIALS AND GRASSES.
30. CONTRACTOR SHALL USE 1.5" DIA. ROUND POSTS WITH TAPERED END, 4.0 IN LENGTH OR DUCKBILL ANCHORS FOR TREE ANCHORING.
31. CONTRACTOR SHALL USE 3 ANCHORS FOR DECIDUOUS TREES. 3 ANCHORS FOR CONIFEROUS TREES WITH WEBBING OR RUBBER TREE TIES MANUFACTURED SPECIFICALLY FOR USE ON TREES.
32. CONTRACTOR WILL BE RESPONSIBLE TO REMOVE ALL ANCHORING AT THE END OF ONE CONTINUOUS GROWING SEASON.
33. CONTRACTOR SHALL COORDINATE IRRIGATION SYSTEM LAYOUT WITH PLANTINGS.
34. AREAS THAT ARE TOO SMALL TO BE DRILL SEEDED SHALL BE BROADCAST RAKED IN, AND ROLLED.
35. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	ROOT
TREES					
	ACE OGL	4	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	2" CAL	B&B
	ACE HOT	2	ACER TATARICUM 'HOT WINGS' HOT WINGS TATARIAN MAPLE	2" CAL	B&B
	GYM DIO	10	GYMNOCLADUS DIOICA 'ESPRESSO KENTUCKY COFFEETREE	2" CAL	B&B
	QUE MAC	2	QUERCUS MACROCARPA BURR OAK	2" CAL	B&B
	QUE RUB	5	QUERCUS RUBRA NORTHERN RED OAK	1.5" CAL	B&B
SHRUBS					
	EUO IVO	11	EUONYMUS FORTUNEI 'IVORY JADE' IVORY JADE WINTERCREEPER	5 GAL	
	RHU AUT	15	RHUS TRILOBATA 'AUTUMN AMBER' AUTUMN AMBER SUMAC	5 GAL	
ORNAMENTAL GRASSES					
	CAL KAR	30	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' KARL FOERSTER FEATHER REED GRASS	1 GAL	POT

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Civil Engineering Professionals, Inc.
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REVISIONS | DATE

GRHH PERFORMANCE MILLS LLC ET AL
WYOMING CLASSICAL ACADEMY
MILLS, WYOMING

PROJECT # 26-014
DATE 10/1/26
DRAWN BY SAG

LANDSCAPE PLAN

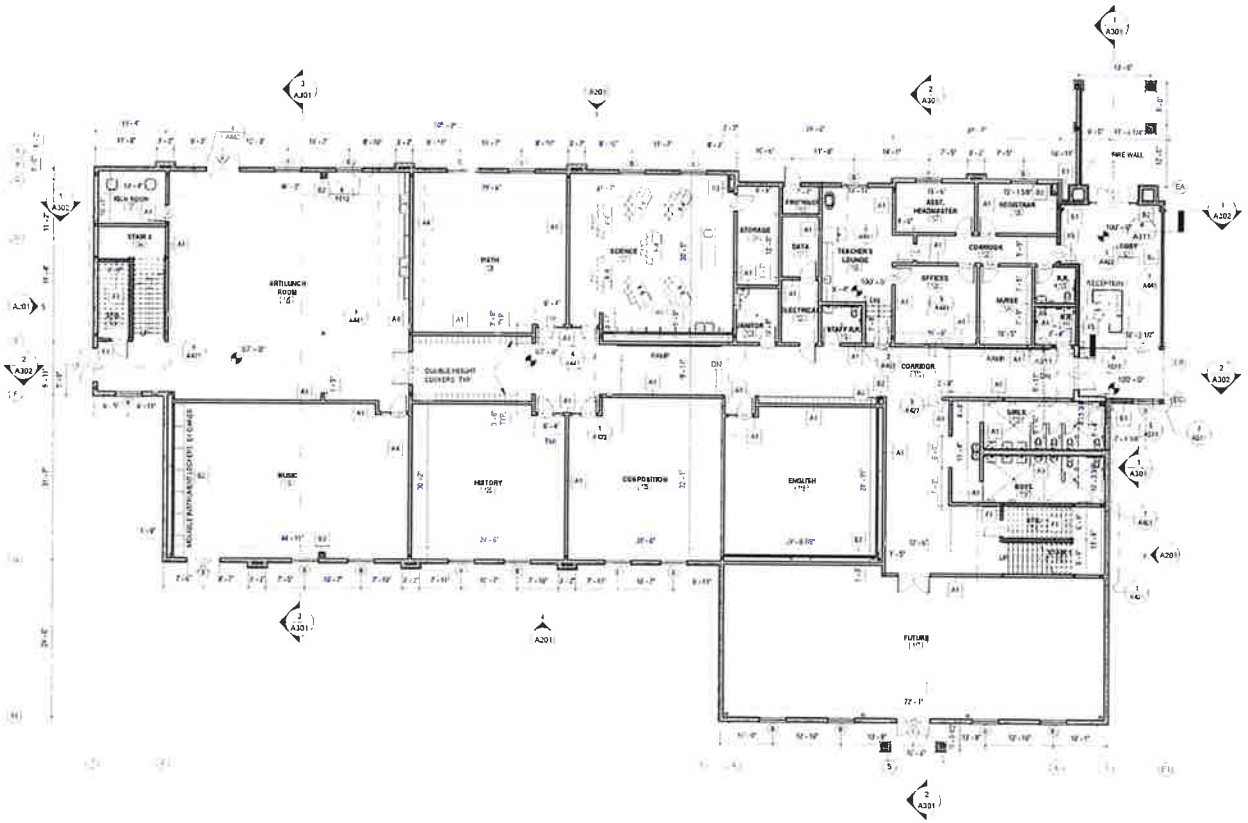
SHEET
L1.0

GENERAL NOTES

1. SEE ENLARGED PLANS FOR INTERIOR DIMENSIONS
2. WINDOW DIMENSIONS ARE TO THE O.C. OF WINDOW OPENING (U.N.O.)
3. SEE SHEET A011 FOR GENERAL FLOOR PLAN DETAILS
4. CABINETS & LOCKS (U.N.O.)
   - PROVIDE ADA ACCESSIBLE CUBBIES & COAT HOOKS AS APPLICABLE. SEE PLANS FOR LOCATIONS
   - A MINIMUM OF 5% OF LOCKERS / HOOKS IN AN ACCESSIBLE SPACE SHALL BE ACCESSIBLE PER APPLICABLE REQ.
5. THROUGH PENETRATION FIRESTOP SYSTEMS
   - A FIRE RESISTIVE FILL OR FLOOR MUST BE UTILIZED BACK TO ITS ORIGINAL FIRE INTEGRITY WHEN PENETRATED. CONTRACTOR TO USE THE UL DESIGN NUMBERS BELOW TO MAINTAIN FIRE RESISTIVE INTEGRITY
     - STUD WALLS WL-1042
     - CONCRETE FLOOR ASSEMBLY FA-1068
   - FIRE RESISTIVE ROOMS
     - FIRE RISER ROOM
     - STORAGE UNDER STAIRS
6. PROVIDE WOOD BLOCKING FOR ALL RESTROOM PARTITIONS, ADA GRAB BARS, PANDRAILS, ETC. SEE MANUFACTURER'S RECOMMENDATIONS FOR LOCATIONS OF BLOCKING.
7. PROVIDE METAL STRAPPING BLOCKING FOR WHITEBOARDS (SEE MANUFACTURER'S RECOMMENDATIONS FOR LOCATION OF BLOCKING).

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
(A)	WALL TYPE TAG - SEE WALL TYPES SHEET A501
1	DOOR TAG - SEE DOOR SCHEDULE SHEET A601
(A)	WINDOW TAG - SEE WINDOW SCHEDULE SHEET A611



LEVEL 1 FLOOR PLAN

BUILDING AREA - PHASE 1

LEVEL 1 PHASE 1	13,552 SF
LEVEL 2 PHASE 1	12,505 SF
Grand total	26,187 SF

BUILDING AREA - PHASE 2

LEVEL 1 PHASE 2	2,636 SF
LEVEL 2 PHASE 2	2,765 SF
Grand total	5,401 SF

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WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LANE
MILLS, WYOMING 82604

SEAL

DATE
PROJECT MANAGER

REVISIONS

#	DATE	DESCRIPTION

LEVEL 1 FLOOR PLAN

SHEET NUMBER: A101

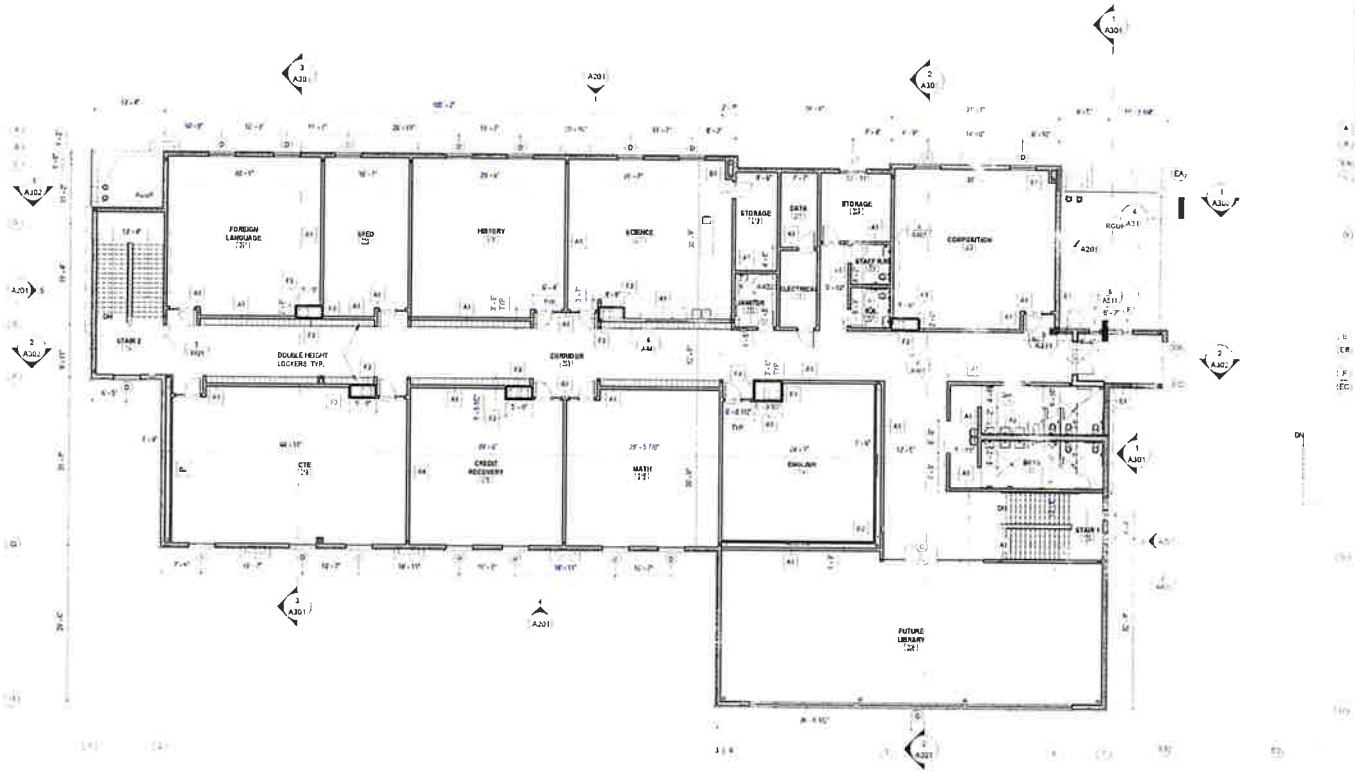
PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.

GENERAL NOTES

1. SEE ENLARGED PLANS FOR INTERIOR DIMENSIONS
2. WINDOW DIMENSIONS ARE TO THE CL OF WINDOW OPENING U.N.O.
3. SEE SHEET A511 FOR GENERAL FLOOR PLAN DETAILS
4. CUBBIES & LOCKER NOTE
   -PROVIDE ADA ACCESSIBLE CUBBIES & COAT HOOKS AS APPLICABLE. SEE PLANS FOR LOCATIONS
   -A MINIMUM OF 5% OF LOCKERS PROVIDED IN AN ACCESSIBLE SPACE SHALL BE ACCESSIBLE PER APPLICABLE IBC.
5. THROUGH-PENETRATION FIRESTOP SYSTEMS
   -A FIRE RESISTIVE WALL OR FLOOR MUST BE SEALED BACK TO ITS ORIGINAL FIRE INTEGRITY WHEN PENETRATED. CONTRACTOR TO USE THE UL DESIGN NUMBERS BELOW TO MAINTAIN FIRE RESISTIVE INTEGRITY.
   -STUD WALLS W4-1042
   -CONCRETE FLOOR ASSEMBLY F-A-1068
   -FIRE RESISTIVE ROOMS
   -MPE RISER ROOM
   -STORAGE UNDER STAIRS
6. PROVIDE WOOD BLOCKING FOR ALL RESTROOM PARTITIONS, ADA GRAB BARS, HANDRAILS ETC. SEE MANUFACTURER'S RECOMMENDATIONS FOR LOCATIONS OF BLOCKING.
7. PROVIDE METAL STRAPPING BLOCKING FOR WHITEBOARDS (SEE MANUFACTURER'S RECOMMENDATIONS FOR LOCATIONS OF BLOCKING.

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
W	WALL TYPE TAG - SEE WALL TYPES SHEET A501
D	DOOR TAG - SEE DOOR SCHEDULE SHEET A601
W	WINDOW TAG - SEE WINDOW SCHEDULE SHEET A611



LEVEL 2 FLOOR PLAN

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6389 POISON SPIDER LANE
MILLS, WYOMING 82604

DATE 8/4/2023
PROJECT AWC-01
MANAGER DH

REVISIONS

#	DATE	DESCRIPTION

LEVEL 2 FLOOR PLAN

SHEET NUMBER: A102

PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BE UNDERTAKEN UNTIL THE CONTRACTOR HAS REVIEWED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.



NORTH ELEVATION

1
A201

ENERGY ANALYSIS

(PRESCRIPTIVE METHOD)

CLIMATE ZONE: 6A

FENESTRATION REQUIREMENTS:

ELEVATION	TOTAL SF	GLAZING SF	GLAZING/WALL RATIO
WEST	3,647	740	9%
EAST	3,428	573	9%
NORTH	7,466	870	12%
SOUTH	7,540	1,004	13%

SKYLIGHTS

RATED	SHGC 0.36
OPERABLE	SHGC 0.30
ENTRANCE DOORS	SHGC 0.33

SHGC (FIXED)

FIXED	0.28
OPERABLE	0.23

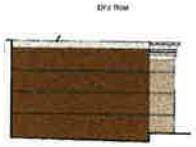
EXTERIOR FINISH LEGEND

HATCH	DESCRIPTION
	DRYVIT EIFS FINISH (119 VAN DYKE)
	DRYVIT EIFS FINISH (142 SPECTRUM BROWN)
	DRYVIT EIFS FINISH (121 CHINA WHITE)
	DRYVIT EIFS FINISH (196 CHOCOLATE CHIP)



EAST ELEVATION

2
A201



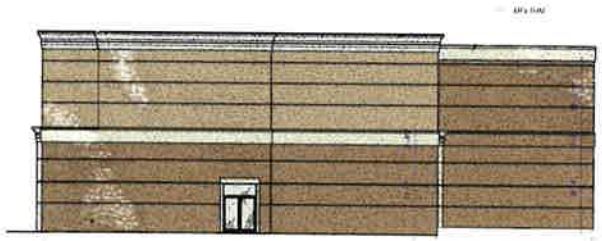
HIDDEN EAST ELEVATION

3
A201



SOUTH ELEVATION

4
A201



WEST ELEVATION

5
A201

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6389 POISON SPIDER LANE
MILLS, WYOMING 82604

DATE 8/4/2025
PROJECT AW-C81
MANAGER ZH

REVISIONS

#	DATE	DESCRIPTION

EXTERIOR ELEVATIONS

SHEET NUMBER:
A201

ELECTRICAL SYMBOLS

NOTE: SYMBOLS SHOWN IN THIS SCHEDULE ARE TYPICAL. NOT ALL ARE USED IN THIS PROJECT. MOUNTING HEIGHTS ARE TO THE CENTER OF THE DEVICE AND ARE TYPICAL

ANNOTATIONS

- INDICATES POINT OF CONNECTION OF NEW TO EXISTING ELECTRICAL EQUIPMENT OR SYSTEMS
- PLAN NOTE CALLOUT
- REVISION TAG INDICATOR
- DETAIL REFERENCE: UPPER # INDICATES DETAIL # & LOWER # INDICATES SHEET #
- SECTION CUT DESIGNATION: UPPER # INDICATES VIEW # & LOWER # INDICATES SHEET #
- MECHANICAL EQUIPMENT DESIGNATION: REFER TO MECHANICAL SCHEDULES
- PLUMBING FIXTURE DESIGNATION: REFER TO PLUMBING FIXTURE SCHEDULE
- LIGHT FIXTURE DESIGNATION: REFER TO LIGHT FIXTURE SCHEDULE
  - * PANEL=CIRCUIT WHERE APPLICABLE
  - * MOUNTING HEIGHT WHERE APPLICABLE.
- FEEDER TAG (ONE LINE DIAGRAM)

LINE TYPE LEGEND

- EXISTING
- DEMOLISHED
- NEW
- TEMPORARY
- FUTURE

DIFFERENT LINE TYPES AND SYMBOLS ARE USED THROUGHOUT DRAWINGS TO INDICATE THE CONSTRUCTION PHASE. THE STATUS OF ELEMENTS USING THESE LINE TYPES ARE RELATIVE TO THE VIEWING WHICH THEY APPEAR AND IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING. THESE DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE ROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT.
IF THERE ARE ANY DISCREPANCIES CONTACT TO CONTACT THE ARCHITECT AND/OR MECHANICAL ENGI THE EXISTING DOCUMENTS ARE AVAILABLE THROUGH THE A JECT

HATCHING LEGEND

- ENLARGED PLAN
- NOT IN SCOPE (NIS)

ABBREVIATIONS

AF	AMPERE FUSE SIZE	GND	GROUND
AFC	ABOVE FINISHED CEILING	GRC	GALVANIZED RIGID CONDUIT
AFF	ABOVE FINISHED FLOOR	IG	ISOLATED GROUND
AFG	ABOVE FINISHED GRADE	MCB	MAIN CIRCUIT BREAKER
AFCI	ARC FAULT PROTECTOR	MCC	MOTOR CONTROL CENTER
AHJ	AUTHORITY HAVING JURISDICTION	MH	MANHOLE
AIC	AMP INTERRUPTING CURRENT(SYMMETRICAL)	MHT	TYP MOUNTING HEIGHT
ALUM	ALUMINUM	MLO	MAIN LUGS ONLY
BG	BELOW GRADE CONDUIT	(N)	NEW
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	NIC	NOT IN CONTRACT
CKT	CIRCUIT	NL	NIGHT LIGHT
CO	CONDUIT-ONLY	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CU	COPPER	OFOI	OWNER FURNISHED OWNER INSTALLED
CAW	COMPLETE WITH	PNL	PANEL
(D)	DEMOLISH / DELETE	(R)	RELOCATE
EM	EMERGENCY	SCBA	STYLE AID COLOR BY ARCHITECT
(E)	EXISTING	SPD	SURGE PROTECTION DEVICE
EPO	EMERGENCY POWER OFF	TR	TAMPER RESISTANT
EWC	ELECTRIC WATER COOLER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
EWH	ELECTRIC WATER HEATER	TYP	TYPICAL
(F)	FUTURE	UNO	UNLESS NOTED OTHERWISE
FA	FIRE ALARM	WP	WEATHER PROOF
FLA	FULL LOAD AMPS	XFMR	TRANSFORMER
GFI	GROUND FAULT INTERRUPTER		
GFP	GROUND FAULT PROTECTOR		

STANDARD MOUNTING HEIGHTS

INSTALL DEVICES/OUTLET BOXES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ABOVE OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS ARE AFF OR AFG TO CENTER UNO. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS

ELECTRICAL DISTRIBUTION

- TELEPHONE COMPANY PEDESTAL
- POWER COMPANY GROUND SLEEVE
- POWER COMPANY SITE TRANSFORMER
- HIGH VOLTAGE (27/480 VOLT) PANELBOARD [MHT +72"]
- LOW VOLTAGE (120/208 VOLT) PANELBOARD [MHT +72"]
- DRY TYPE TRANSFORMER
- DISTRIBUTION SWITCHBOARD
- TELEPHONE AND/OR DATA TERMINAL BOARD

ELECTRICAL WIRING

- CROSS LINES INDICATE NUMBER OF CONDUCTORS GROUNDING CONDUCTORS NOT INCLUDED
- BRANCH CIRCUIT CONCEALED IN CEILING OR WALL
- BRANCH CIRCUIT CONCEALED IN GROUND OR FLOOR
- BRANCH CIRCUIT HOMERUNS TO PANEL w/ PANEL & CIRCUIT NUMBER DESIGNATION
- BRANCH CIRCUIT HOMERUNS TO PANEL FOR LOW VOLTAGE CABLE DESIGNATION (PANEL - CKT #)
- CONDUIT RISER UP
- CONDUIT RISER DOWN
- CONDUIT STUB (CAP CONDUIT)
- CABLE TRAY
- BUS DUCT

ELECTRICAL CONNECTIONS

- NON-FUSED DISCONNECT SWITCH [MHT +72"]
- FUSED DISCONNECT SWITCH [MHT +72"]
- MOTOR STARTER/DISCONNECT SWITCH COMBINATION NON-FUSED [MHT +72"]
- MOTOR STARTER/DISCONNECT SWITCH COMBINATION FUSED [MHT +72"]
- MOTOR STARTER ONLY [MHT +72"]
- VFD: VARIABLE FREQUENCY DRIVE [MHT +78"]
- MOTOR CONNECTION

ELECTRICAL POWER

- J: JUNCTION BOX [MHT +18"]
- SIMPLEX RECEPTACLE [MHT +18"]
- DUPLEX RECEPTACLE [MHT +18"]
- QUAD RECEPTACLE [MHT +18"]
- SPLIT WIRED DUPLEX RECEPTACLE [MHT +18"]
- WP: DUPLEX RECEPTACLE WEATHERPROOF & CFCI [MHT +18"]
- DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT CIRCUIT INTERRUPTION PROTECTION [MHT +18"]
- RECEPTACLE ELECTRIC WATER COOLER (EWC) WITH GROUND FAULT CIRCUIT INTERRUPTION PROTECTION [MHT +18"]
- DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT CIRCUIT INTERRUPTION PROTECTION [MHT +18"]
- EQUIPMENT RECEPTACLE [MHT +48"]
- SPECIAL PURPOSE RECEPTACLE
- DUPLEX RECEPTACLE IN FLOOR
- QUAD RECEPTACLE IN FLOOR
- FIRE RATED POKE THRU
- POWER/TELEPHONE POLE
- MULTI-OUTLET WIREWAY [MHT +]
- USB-A, USB-C: DUPLEX RECEPTACLE WITH TWO USB CONNECTIONS AS SPECIFIED

TELECOMMUNICATIONS

- TELEPHONE OUTLET [MHT +18"]
- TELEPHONE OUTLET FLOOR
- COMPUTER DATA OUTLET [MHT +18"]
- COMPUTER DATA OUTLET FLOOR
- VOICE / DATA OUTLET [MHT +18"]
- NETWORK AND VOICE OUTLET FLOOR
- 24WAY COMMUNICATION [MHT 42"]

AUDIO / VIDEO

- TV: TELEVISION OUTLET [MHT +18"]
- SPEAKER
- VOLUME CONTROL [MHT +48"]
- AJ: AUXILIARY JACK [MHT +18"]
- IC: INTERCOM STATION [MHT +48"]
- M: MICROPHONE JACK [MHT +18"]
- BELL [MHT +80-96"]
- CHIME [MHT 80-96"]

ELECTRICAL DEVICES

- PUSHBUTTON [MHT +48"]
- STOP/START STATION [MHT +48"]
- EPO: EMERGENCY POWER OFF MUSHROOM TYPE BUTTON [MHT +48"]
- LINE VOLTAGE THERMOSTAT [MHT +48"]
- NURSE CALL BED/BATH STATION [MHT +48"]
- NURSE CALL LIGHT [MHT +84"]
- NURSE CALL STATION PANEL [MHT +72"]

LIGHTING

- FLAT PANEL
- FLAT PANEL EMERGENCY FIXTURE
- LINEAR FIXTURE (TYPICAL)
- LINEAR EMERGENCY FIXTURE (TYPICAL)
- RECESSED DOWNLIGHT FIXTURE
- PENDANT FIXTURE
- WALL MOUNTED FIXTURE
- WALL MOUNTED EMERGENCY EGRESS FIXTURE
- LINEAR STRIP
- TRACK LIGHTING
- EMERGENCY LIGHTING UNIT [MHT +84"]
- POST TOP AREA LIGHT POLE & FIXTURE
- AREA LIGHT POLE AND FIXTURE (REFER TO QTY AS SHOWN ON PLAN)
- BOLLARD FIXTURE
- FLOOR OR SPOT FIXTURE
- WALL MOUNTED EXIT LIGHT (SINGLE FACE) [MHT +102"]
- WALL MOUNTED EXIT LIGHT (DOUBLE FACE) [MHT +102"]
- CEILING MOUNTED EXIT LIGHT (SINGLE FACE)
- CEILING MOUNTED EXIT LIGHT (DOUBLE FACE)

SECURITY

- SECURITY SYSTEM DOOR CONTACT
- SECURITY SYSTEM OVERHEAD DOOR CONTACT
- KP: SECURITY SYSTEM KEYPAD ARM/DISARM [MHT +48"]
- ES: SECURITY SYSTEM ELECTRIC STRIKE
- ML: SECURITY SYSTEM MAGNETIC DOOR LOCK
- REX: REQUEST TO EXIT MOTION DETECTOR
- SECURITY SYSTEM AREA MOTION SENSOR
- SECURITY SYSTEM GLASS BREAK SENSOR
- CR: SECURITY SYSTEM CARD READER [MHT +48"]
- AK: SECURITY SYSTEM DOOR ACCESS KEYPAD [MHT +48"]
- SECURITY SYSTEM CCTV CAMERA
- DVR: DIGITAL VIDEO RECORDER
- MON: SECURITY SYSTEM CCTV MONITOR
- SYST: SECURITY SYSTEM PANEL [MHT +72"]
- PS: POWER SUPPLY LOW VOLTAGE

FIRE ALARM

- FIRE ALARM MANUAL PULL STATION
- FIRE ALARM HORN/STROBE
- FIRE ALARM HORN/STROBE WITH GUARD
- FIRE ALARM HORN/STROBE WATERPROOF
- FIRE ALARM STROBE
- FIRE ALARM SPEAKER & STROBE
- SMOKE DETECTOR
- SD: SMOKE DETECTOR BATTERY-BACKED
- SCD: SMOKE & CARBON MONOXIDE DETECTOR
- DUCT SMOKE DETECTOR
- HEAT DETECTOR - CO2
- CO2 GAS DETECTOR [MHT +18"]
- DOOR HOLDER
- FS: 10 ALARM FLOW SWITCH
- TS: FIRE ALARM TAMPER SWITCH
- FFT: FIRE ALARM FIREFIGHTER PHONE [MHT +48"]
- CM: CONTROL MODULE
- MM: MONITOR MODULE
- FSD: FIRE/SMOKE DAMPER
- R: FIRE ALARM RELAY
- FAGA: FIRE ALARM GENERATOR ANNUNCIATOR [MHT +48"]
- NAC: FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL [MHT +48"]
- FACP: FIRE ALARM CONTROL PANEL [MHT +48"]
- FAA: FIRE ALARM REMOTE ANNUNCIATOR PANEL [MHT +48"]

LIGHTING CONTROL

- S: SINGLE POLE SWITCH [MHT +48"]
  - Blank = SINGLE POLE
  - 3 = 3-WAY SWITCH
  - 4 = 4-WAY SWITCH
  - P = SWITCH W/ PILOT LIGHT
  - D = DIMMER SWITCH
  - K = KEYED SWITCH
  - TM = DIGITAL TIMER SWITCH
  - T = MANUAL STARTER WITH THERMAL OVERLOAD
  - L = LOW VOLTAGE SWITCH
  - a = CONTROLLING SWITCH (LETTER INDICATES CONTROL DEVICE)
- SINGLE POLE SWITCH/OCCUPANCY SENSOR COMBINATION MANUAL ON/AUTO OFF (WALL MOUNTED, DUAL TECH. [MHT +48"]
- OCCUPANCY SENSOR DUAL TECHNOLOGY
- TS: TIME SWITCH [MHT +60"]
- LC: LIGHTING CONTACTOR [MHT +82"]
- P: PHOTOCELL

ELECTRICAL ONE-LINE & RISER DIAGRAM

- SECTIONALIZER
- TRANSFORMER (TYPE AND RATINGS AS INDICATED)
- SWBD: SWITCHBOARD, SWITCHGEAR AND/OR DISTRIBUTION PANELBOARD (TYPE, RATINGS, POLES, DEVICES, METERING, GROUNDING AND ACCESSORIES AS INDICATED)
- SWITCH (RATING AND POLES AS INDICATED)
- FUSED SWITCH (RATING, POLES, FUSE RATING AND FUSE TYPE AS INDICATED)
- BREAKER (RATING AND POLES AS INDICATED)
- VFD: VARIABLE FREQUENCY DRIVE
- DISCONNECT: COMBINATION CIRCUIT BREAKER / STARTER (RATING AND POLES AS INDICATED)
- STARTER DISCONNECT SWITCH (RATING AND POLES AS INDICATED)
- FUSED DISCONNECT STARTER (RATING, POLES, FUSE RATING, AND FUSE TYPE AS INDICATED)
- PANELBOARD: SINGLE OR MULTI-SECTION (RATING AS INDICATED, REFER TO SCHEDULES)
- ATS: TRANSFER SWITCH (RATING AS INDICATED)
  - ATS = AUTOMATIC TRANSFER SWITCH
  - MTS = MANUAL TRANSFER SWITCH
  - NTS = NON-AUTOMATIC TRANSFER SWITCH
- GENERATOR (RATING AND FUEL TYPE AS INDICATED)
- UPS: UNINTERRUPTIBLE POWER SYSTEM CABINET (RATING AS INDICATED) AND BATTERY CABINET (RATING AS INDICATED)
- M: MOTOR (RATING AS INDICATED)
- H: HEATER (RATING AS INDICATED)
- CT: CURRENT TRANSFORMER (CABINET AND RATING AS INDICATED OR REQUIRED)
- M: UTILITY METER (CABINET AS INDICATED)
- KWH: WATT-HOUR METER
- SPD: SURGE PROTECTIVE DEVICE
- GROUND CONNECTION
- FAULT POINT REFERENCED IN SHORT CIRCUIT CURRENT AND VOLTAGE DROP SPREADSHEET

ELECTRICAL GENERAL NOTES

A. THE ELECTRICAL CONTRACTOR SHALL REVIEW AND COORDINATE WITH ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND OTHER DRAWINGS PRIOR TO BID.

B. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS IN A NEAT AND ORDERLY MANNER WITH TYPE AND MODEL NUMBERS INDICATED. SUBMITTAL IS SHALL INCLUDE BUT NOT LIMITED TO: LIGHTING FIXTURES, LAMPS, WIRING DEVICES, OCCUPANCY SENSORS, CONTACTORS, TIME CLOCKS, PHOTOCELLS, RELAYS, SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS, SAFETY SWITCHES, MOTOR STARTERS, OVERCURRENT PROTECTION DEVICES, TRANSFORMERS, CONDUCTORS OVER 600 VOLTS, AND ALL SPECIAL SYSTEMS SUCH AS FIRE ALARM, LIGHTING CONTROLS, SECURITY SYSTEMS, SOUND SYSTEMS, ETC.

C. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. MANUFACTURERS CATALOG NUMBERS ARE LISTED AS A BASIS OF DESIGN. ELECTRICAL CONTRACTOR SHALL SUBMIT ANY PRODUCT INFORMATION THAT DEVIATES FROM ORIGINAL DESIGN AND SPECIFICATIONS.

D. CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS AND INSPECTION FEES.

E. ALL IMPACT FEES ASSOCIATED WITH CITY, UTILITY, OR SERVICE COMPANIES FOR, BUT NOT LIMITED TO, POWER, TELEPHONE, FIBER OPTIC, AND INTERNET SHALL BE THE RESPONSIBILITY OF THE OWNER.

F. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE GENERAL CONTRACTOR TO PROVIDE AND INSTALL TEMPORARY POWER FOR PROJECT CONSTRUCTION AS REQUIRED. ALL ENERGY COSTS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

G. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO MAKING ANY ROUGH-INS.

H. ELECTRICAL CONTRACTOR SHALL REVIEW ALL ARCHITECT'S ELEVATIONS, SECTIONS, AND FLOOR PLANS PRIOR TO ROUGH-IN OF ELECTRICAL DEVICE JUNCTION BOXES.

I. CONDUIT ARCHITECT'S REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LUMINAIRES, SPEAKERS, SMOKE DETECTORS, ETC.

K. ELECTRICAL CONTRACTOR SHALL MEET WITH THE CEILING AND MECHANICAL CONTRACTORS TO COORDINATE LOCATIONS, CLEARANCES, CEILING TYPES, AND ROUGH-IN REQUIREMENTS OF ALL LUMINAIRES PRIOR TO DUCT, PIPING, AND CEILING INSTALLATIONS.

L. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.

M. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-INS. CONSULT CONTRACT DOCUMENT DRAWINGS AND SHOP DRAWINGS TO VERIFY AND MAINTAIN REQUIRED CLEARANCES.

N. ELECTRICAL ROOM DRAWINGS ARE FOR REFERENCE ONLY OF EQUIPMENT QUANTITIES. ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ELECTRICAL ROOM SHOWING DIMENSIONS AND CLEARANCES OF ALL EQUIPMENT AND ELECTRICAL GEAR PROVIDED. COORDINATE LAYOUT WITH ONE-LINE DRAWINGS.

O. CONTRACTOR SHALL VERIFY ACTUAL ELECTRICAL LOADS FROM NAMEPLATE RATINGS OF EACH PIECE OF EQUIPMENT REQUIRING POWER. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE PROJECT ENGINEER.

P. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER, PER INDUSTRY STANDARD AND TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.

Q. WORK, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE, AND NATIONAL CODES, STANDARDS, AND ORDINANCES.

R. FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND APPROVED WIRING DIAGRAMS AND DETAILS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.

S. ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A 200LB-RATED PULL CORD INSTALLED AND SHALL BE IDENTIFIED AT EACH JUNCTION, PULL, AND TERMINATION POINT USING PERMANENT MARKER IN THE BOX. ID SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION, AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.

T. ALL PENETRATIONS OF FIRE RATED FLOORS, CEILINGS, AND WALLS SHALL BE SEALED WITH UL-LISTED AND RATED FIRE STOP MATERIAL TO MAINTAIN FIRE RATING OF ASSEMBLY.

U. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY OR CONCRETE COLUMNS, BOND BEAMS, OR GROUTED CELLS OF MASONRY WALLS ADJACENT TO OPENINGS WITHOUT COORDINATION WITH THE MASONRY CONTRACTOR.

V. WIRE FOR GENERAL USE SHALL BE COPPER, 75°C RATED. WIRING FOR HID FIXTURES WITHIN 3' OF FLUORESCENT BALLASTS SHALL BE COPPER, MINIMUM 90°C RATED. CONDUCTOR SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30°C AMBIENT TEMPERATURE ENVIRONMENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.

W. CONDUCTORS HAVE BEEN SIZED FOR VOLTAGE DROP AS PER PLANS AND DIRECT ROUTING. ANY DEVIATION IN CONDUIT ROUTING MAY INCREASE THE WIRE AND CONDUIT SIZE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO ENSURE PROPER OPERATING VOLTAGE ON ALL CIRCUITS BOTH INTERIOR AND EXTERIOR. THE VOLTAGE DROP SHALL NOT EXCEED 3% FOR BRANCH CIRCUITS AND 2% FOR FEEDERS FOR A TOTAL OF 5% COMBINED TOGETHER OF BRANCH AND FEEDER CIRCUITS TO THE FARTHEST OUTLET.

X. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL UTILITY METERING EQUIPMENT TO COMPLY WITH THE STANDARDS OF THE LOCAL OR PROJECT SPECIFIC POWER COMPANY.

Y. VERIFY EXACT LOCATIONS OF ALL NEW AND EXISTING UNDERGROUND SITE UTILITIES, PIPING, AND RACEWAY SYSTEMS PRIOR TO TRENCHING. A UTILITY LOCATING COMPANY SUCH AS "BLUE STAKE" OR EQUAL SHALL BE USED TO VERIFY AND MARK UTILITIES BEFORE TRENCHING. PROVIDE ALL TRENCHING, BACKFILL EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULL BOXES, TRANSFORMER PADS, SAW CUTTING AND PATCHING, CONCRETE PAVING, ETC. REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION. PATCHING SHALL MATCH EXISTING SURROUNDING SURFACES. CONTRACTOR SHALL OBTAIN AND VERIFY UTILITY COMPANY DRAWINGS AND REQUIREMENTS FOR ALL SITE UTILITIES. ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE ELECTRICAL RELATED UTILITIES WITH THE CIVIL, MECHANICAL, AND SITE EXCAVATION CONTRACTORS.

Z. PULLBOXES, CABINETS, ETC. MOUNTED ON THE EXTERIOR OF THE BUILDING SHALL BE WEATHERPROOF TYPE WITH HINGED, GASKETED, LOCKABLE COVERS SECURED WITH TAMPERPROOF SCREWS.

ZA. SPLICES IN EXTERIOR PULLBOXES AND MANHOLES SHALL BE MADE WATERPROOF USING "SCOTCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS ENTERIOR BOXES WITH "DUCTSEAL" OR EQUAL.

ZB. ELECTRICAL CONTRACTOR SHALL TEST AND VERIFY ALL SYSTEMS WITH PROJECT ENGINEER DURING FINAL INSPECTION TO ENSURE PROPER OPERATION. IF TESTS RESULT IN DEFECT THE CONTRACTOR SHALL MAKE ANY CORRECTIONS NECESSARY AT NO ADDITIONAL COSTS TO THE OWNER.

ZC. PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

ZD. THE CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP, WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION. DEFECTS SHALL BE PROMPTLY CORRECTED.

ZE. PROVIDE A BID FOR A SURVEY FOR AN EMERGENCY RESPONDER COMMUNICATION SYSTEM AND A BID ESTIMATE FOR A BIDIRECTIONAL ANTENNA (BDA) COMMUNICATION SYSTEM TO MEET INTERNATIONAL FIRE CODE, IFC 510. THE SURVEY IS TO BE ACCOMPLISHED NEAR THE SUBSTANTIAL COMPLETION DATE OF THE PROJECT. THE BID ESTIMATE FOR THE BDA SYSTEM IS TO BE IDENTIFIED AS A SEPARATE LINE ITEM IN THE BID PRICE. IN THE EVENT THAT THE SURVEY DOES NOT REQUIRE A BDA SYSTEM, THE ELECTRICAL CONTRACTOR SHALL CREDIT BACK TO THE OWNER THE PRICE OF THE SYSTEM.

SHEET LIST

SHEET #	SHEET NAME
E001	ELECTRICAL NOTES / SYMBOLS
E101	ELECTRICAL SITE PLAN
E102	PHOTOMETRIC SITE PLAN
E200	OVERALL LEVEL 1 POWER PLAN
E201	LEVEL 1 POWER PLAN
E202	LEVEL 2 POWER PLAN
E203	OVERALL ROOF POWER PLAN
E301	LEVEL 1 LIGHTING PLAN
E302	LEVEL 2 LIGHTING PLAN
E401	ONE LINE DIAGRAM
E501	ELECTRICAL SCHEDULES
E502	ELECTRICAL SCHEDULES
E601	ELECTRICAL DETAILS
E602	ELECTRICAL DETAILS

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DESIGN BUILD – COMMERCIAL - INDUSTRIAL

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WYOMING CLASSICAL ACADEMY
6399 POISON SPIDER LANE
MILLS, WYOMING

DATE: 10/15/24
PROJECT NUMBER:
MANAGER: JS

REVISIONS

#	DATE	DESCRIPTION
1	11/6/24	Addendum A

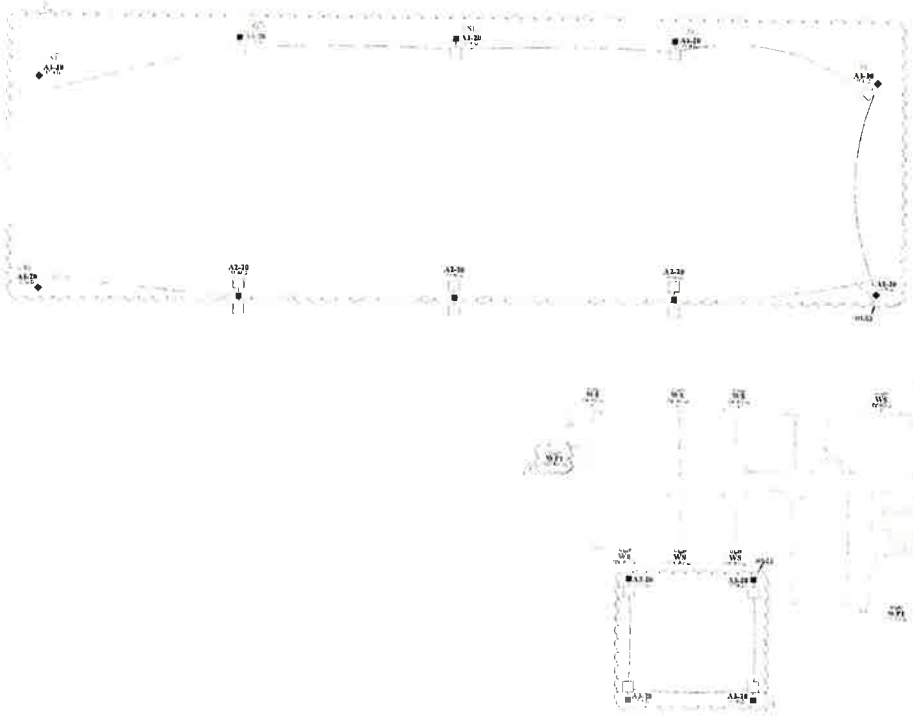
ELECTRICAL NOTES / SYMBOLS

SHEET NUMBER: E001

Item # 4.

KEY NOTES

S1 PROVIDE MANUFACTURER'S HOUSE-SIDE SHIELD FOR THIS FIXTURE



1 ELECTRICAL SITE PLAN
SCALE 1" 30'-0"
0' 15' 30' 60' 120'

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WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LANE
MILLS, WYOMING

DATE
PROJECT
MANAGER

REVISIONS

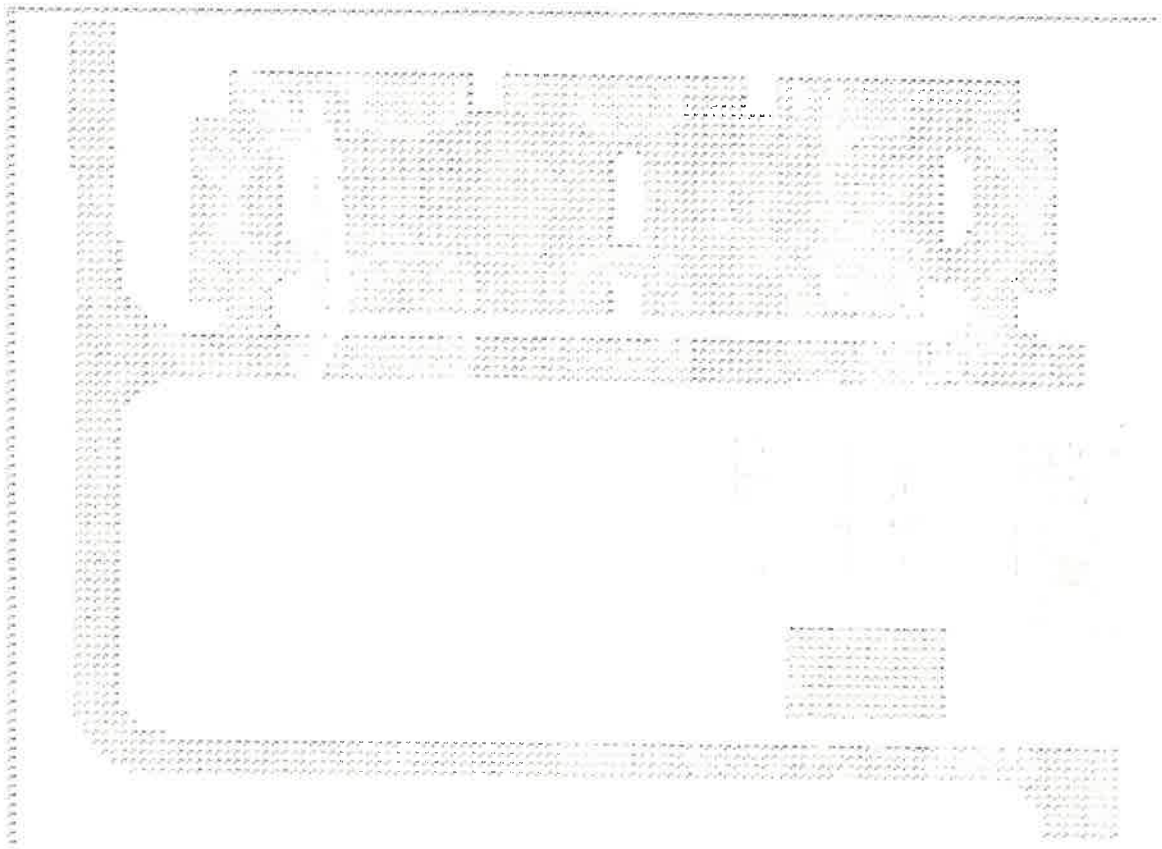
#	DATE	DESCRIPTION
1		Addendum A

ELECTRICAL SITE PLAN

SHEET NUMBER:
E101

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STATISTICS

5' PAST PROPERTY LINE	
AVERAGE	0.01 FC
MAXIMUM	0.04 FC
MINIMUM	0.00 FC
MAX : MIN	N/A
PARKING LOT	
AVERAGE	0.9 FC
MAXIMUM	4.3 FC
MINIMUM	0.1 FC
MAX : MIN	43.0 : 1
DRIVEWAY	
AVERAGE	0.8 FC
MAXIMUM	4.3 FC
MINIMUM	0.1 FC
MAX : MIN	9.6 : 1
BASKETBALL COURT	
AVERAGE	16.5 FC
MAXIMUM	20.2 FC
MINIMUM	16.1 FC
MAX : MIN	1.3 : 1

1 PHOTOMETRIC SITE PLAN

SCALE: 1" = 30'-0"

0' 15' 30' 60' 120'

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WYOMING CLASSICAL ACADEMY

6389 POISON SPIDER LANE
MILLS, WYOMING

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DATE 10/15/20
PROJECT [illegible]
MANAGER JS

REVISIONS

#	DATE	DESCRIPTION
1	10/15/20	[illegible]

PHOTOMETRIC SITE PLAN

SHEET NUMBER:

E102

KEY NOTES

EXISTING 'MDP' LOCATION

ELECTRICAL ROOM 120

1 LEVEL 1 OVERALL POWER PLAN
E200 SCALE: 1/16" 1'-0" 0' 8' 16' 32' 64'

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DESIGN BUILD - COMMERCIAL - INDUSTRIAL
KEY NOTES
LEVEL 1 POWER PLAN
SHEET NUMBER: E201

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6389 POISON SPIDER LANE
MILLS, WYOMING

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DATE 11/15/24
PROJECT 2024-01
MANAGER JS

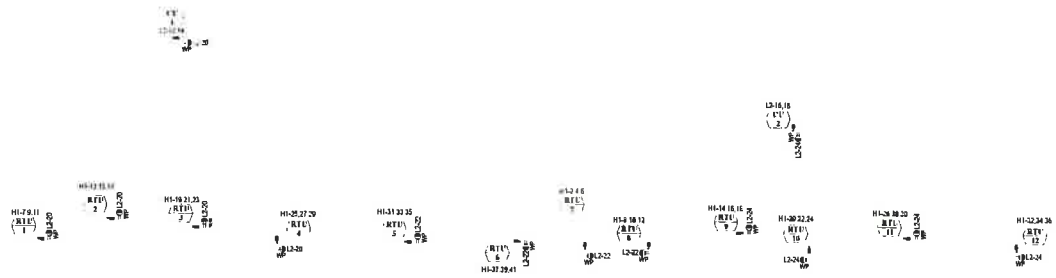
#	DATE	DESCRIPTION
1	12/20/24	ADDENDUM #1

LEVEL 2 POWER PLAN

SHEET NUMBER: E202

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1 E203 OVERALL ROOF PLAN
SCALE: 1/8" = 1'-0"
0' 4' 8' 16' 32'

KEY NOTES

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WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LANE
MILLS, WYOMING

DATE 7/31/2025
PROJECT 25184.01
MANAGER JS

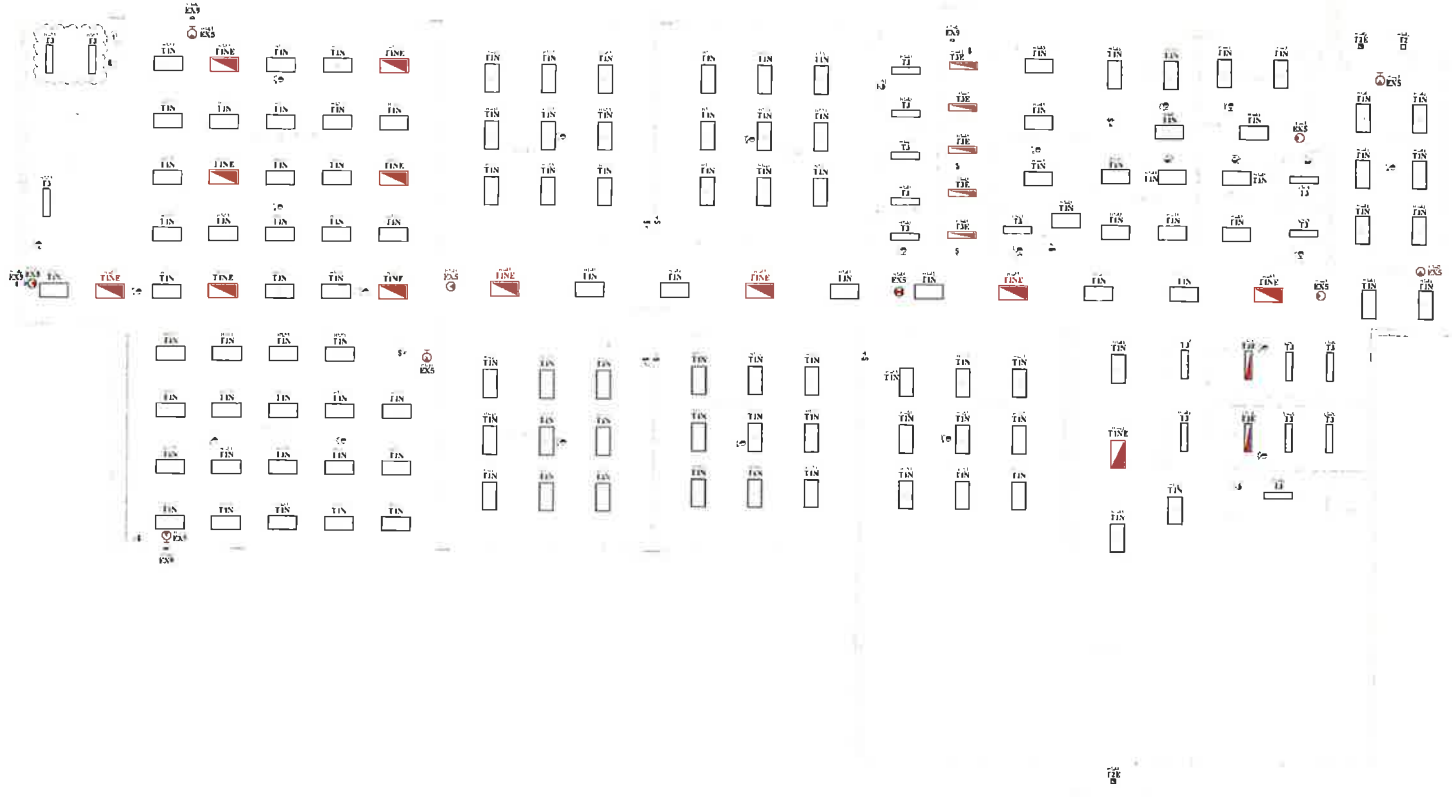
REVISIONS
DATE DESCRIPTION

OVERALL ROOF POWER PLAN

SHEET NUMBER
E203

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1 LEVEL 1 LIGHTING PLAN
SCALE: 1/8" 1'-0"

0' 4' 8' 16' 32'

KEY NOTES

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WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LANE
MILLS, WYOMING

DATE
PROJECT
MANAGER JS

REVISIONS
#	DATE	DESCRIPTION

LEVEL 1 LIGHTING PLAN

SHEET NUMBER:
E301

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KEY NOTES

WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LANE
MILLS, WYOMING

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DATE
PROJECT
MANAGER

LEVEL 2 LIGHTING PLAN

SHEET NUMBER: E302

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Load Summary: MDP

Volts: 480/277 Vac
Phase: 3
Wires: 4

CKT	Circuit Description	A	B	C	Circuit Description	CKT
1	EXISTING LOADS	121.553 kVA	121.553 kVA	121.553 kVA	NEW LOADS	2
3	–				–	4
5	–				–	6

	9A	9B	9C	Connected | Demand
Total Load:	218.233 VA	218.172 VA	217.514 VA	643215 VA | 611843 VA
Total Amps:	754 A	754 A	754 A	754 A | 724 A

Load Classification (LC)	Connected Load	Demand Factor	Demand Load
Equipment	476443 VA	100.00%	476443 VA
Kitchen	29600 VA	65.00%	19030 VA
Lighting	26130 VA	125.00%	43912 VA
Motor	9581 VA	104.81%	10104 VA
Receptacle	93240 VA	55.25%	52626 VA

Panel Totals
Total Conn. Load: 643215 VA
Total Est. Demand: 601843 VA
Total Conn. Current: 776 A
Total Est. Current: 724 A

GROUNDING

LABEL	GROUND
ASG4	#1/0 XHHW-2 AL

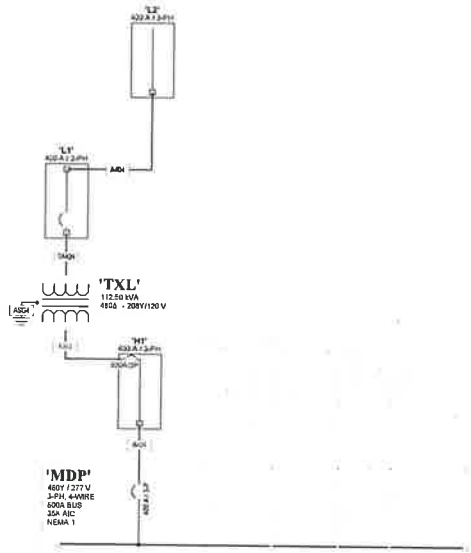
TRANSFORMER SCHEDULE

EQPT NAME	PH	kVA	PRI VOLTS	SEC VOLTS	%Z	PRI FLA	SEC FLA
TXL	3	112.5	480	208	2.5	135.3	312.3

FEEDER/CONDUIT SCHEDULE

LABEL	SETS	CONDUIT	FEEDERS PER SET	GROUND PER SET
A320	1 SET	3"C	(3)500 kcmil XHHW-2 AL	(1)#2 XHHW-2 AL
A454	2 SETS	2-1/2"C	(4)250 kcmil XHHW-2 AL	(1)#1 XHHW-2 AL
TA434	2 SETS	2-1/2"C	(4)150 kcmil XHHW-2 AL	(1)#1/0 XHHW-2 AL

KEY NOTES



(1 / E401) ONE-LINE DIAGRAM
NOT TO SCALE

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WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LANE
MILLS, WYOMING

DATE 7/31/2026
PROJECT 24414.11
MANAGER JS

REVISIONS

#	DATE	DESCRIPTION

ONE LINE DIAGRAM

SHEET NUMBER:
E401

ALDER ELECTRIC
ENGINEERING AND ELECTRICAL SERVICES
DESIGN BUILD – COMMERCIAL - INDUSTRIAL

THIS DRAWING EMBODIES IDEAS, DESIGN, ARRANGEMENTS, PLANS AND SPECIFICATIONS WHICH ARE PROPRIETARY TO ALDER ELECTRIC COMPANY, LLC AND WHICH WERE DESIGNED, CREATED, EVOLVED AND DEVELOPED FOR USE SOLELY BY ALDER ELECTRIC COMPANY, LLC IN CONNECTION WITH THIS SPECIFIED PROJECT. NO TRANSFER OF ANY RIGHTS HERETO IS INTENDED OR EFFECTED BY DELIVERY HEREOF, AND EXCEPT UPON THE WRITTEN PERMISSION OF ALDER ELECTRIC COMPANY, LLC, THIS DRAWING IS NOT TO BE DISCLOSED TO OTHERS, REPRODUCED OR COPIED IN WHOLE OR PART, OR USED IN FABRICATION CONSTRUCTION OF BUILDINGS, STRUCTURES, FOUNDATIONS OR ANY PORTION THEREOF, FOR OTHER THAN THIS SPECIFIED PROJECT BY ALDER ELECTRIC COMPANY, LLC. THIS IS NOT INTENDED TO BE A FULL REPRESENTATION OF THE ELECTRICAL SERVICES ON THE PROJECT AND CAN NOT BE VIEWED AS SUCH DUE TO THE DESIGN NATURE AND THE INTENTION THAT ALDER ELECTRIC COMPANY, LLC WILL BE THE ELECTRICAL CONTRACTOR ON THE PROJECT. THE ELECTRICAL DESIGN LIABILITY FOR THIS PROJECT IS ONLY ASSUMED UNDER THESE CONDITIONS AND IS VOID UNDER ANY OTHER CIRCUMSTANCES WITHOUT PRIOR WRITTEN APPROVAL FROM ALDER ELECTRIC COMPANY LLC

EQUIPMENT SCHEDULE

REF. NOTES LEGEND

1. NONFUSED DISCONNECT SWITCH.
2. FUSED DISCONNECT SWITCH.
3. WARMER IN ENCLOSURE.
4. FUSED DISCONNECT SWITCH WITH SPARE FUSE
5. MANUAL STARTER WITH THERMAL OVERLOAD
6. MANUAL STARTER
7. MAGNETIC STARTER NONFUSED DISCONNECT COMBINATION.
8. MAGNETIC STARTER MOTOR CIRCUIT PROTECTOR COMBINATION.
9. TWO SPEED STARTER. COORDINATE WITH MOTOR TYPE.
10. REDUCED VOLTAGE STARTER.
12. DIRECT CONNECTION.
13. RECEPTACLE/SPECIAL PURPOSE OUTLET ETC.
14. TWO SPEED STARTER. COORDINATE WITH MOTOR TYPE.
A. FURNISHED INSTALLED AND FINAL CONNECTION BY THE ELECTRICAL CONTRACTOR
B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION. FINAL CONNECTION BY THE ELECTRICAL CONTRACTOR.
C. FURNISHED UNDER ANOTHER DIVISION, INSTALLED AND FINAL CONNECTION BY THE ELECTRICAL CONTRACTOR.
D. FURNISHED INSTALLED AND FINAL CONNECTION UNDER ANOTHER DIVISION

UNIT #	EQUIPMENT DESCRIPTION	ELECTRICAL: UNIT LOAD (UNITS)	VOLTS	PHASE	FLA	APPARENT POWER	VOLT / POLES - APPARENT LOAD	PANEL	REF. NOTES	RATING SIZE	NEMA ENCLOSURE	NEMA STARTER	OCPD (AMPS) FUSE	OCPD (AMPS) BREAKER	REMARKS
AC-1	SPLIT AIR CONDITIONING - INDOOR UNIT	1 MCA	208	1	0.80	166 VA	208 V/2-166 VA	L2	12	-	-	-	-	-	POWERED BY OUTDOOR UNIT
AC-2	SPLIT AIR CONDITIONING - INDOOR UNIT	1 MCA	208	1	0.80	166 VA	208 V/2-166 VA	L2	12	-	-	-	-	-	POWERED BY OUTDOOR UNIT
BR-1	BASEBOARD RADIATION UNIT	1250 W	208	1	6.01	1250 VA	208 V/2-1250 VA	L1	1A	20	1	-	-	20	
BR-2	BASEBOARD RADIATION UNIT	750 W	208	1	3.61	750 VA	208 V/2-750 VA	L1	1A	20	1	-	-	20	
CEF-1	CEILING EXHAUST FAN	48 W	120	1	0.40	48 VA	120 V/1-48 VA	L1	5A	-	1	-	-	20	
CEF-2	CEILING EXHAUST FAN	48 W	120	1	0.40	48 VA	120 V/1-48 VA	L1	5A	-	1	-	-	20	
CEF-3	CEILING EXHAUST FAN	48 W	120	1	0.40	48 VA	120 V/1-48 VA	L1	5A	-	1	-	-	20	
CEF-4	CEILING EXHAUST FAN	48 W	120	1	0.40	48 VA	120 V/1-48 VA	L1	5A	-	1	-	-	20	
CEF-5	CEILING EXHAUST FAN	168 W	120	1	1.40	168 VA	120 V/1-168 VA	L1	5A	-	1	-	-	20	
CEF-6	CEILING EXHAUST FAN	168 W	120	1	1.40	168 VA	120 V/1-168 VA	L1	5A	-	1	-	-	20	
CEF-7	CEILING EXHAUST FAN	48 W	120	1	0.40	48 VA	120 V/1-48 VA	L2	5A	-	1	-	-	20	
CEF-8	CEILING EXHAUST FAN	48 W	120	1	0.40	48 VA	120 V/1-48 VA	L2	5A	-	1	-	-	20	
CEF-9	CEILING EXHAUST FAN	48 W	120	1	0.40	48 VA	120 V/1-48 VA	L2	5A	-	1	-	-	20	
CEF-10	CEILING EXHAUST FAN	168 W	120	1	1.40	168 VA	120 V/1-168 VA	L2	5A	-	1	-	-	20	
CEF-11	CEILING EXHAUST FAN	168 W	120	1	1.40	168 VA	120 V/1-168 VA	L2	5A	-	1	-	-	20	
CEF-12	CEILING EXHAUST FAN	313 W	120	1	2.61	313 VA	120 V/1-313 VA	L1	5A	-	1	-	-	20	
CU-1	CONDENSING UNIT (OUTDOOR SECTION)	13 MCA	208	1	10.40	2163 VA	208 V/2-2163 VA	L2	2A	30 A	1	-	15	15	
CU-2	CONDENSING UNIT (OUTDOOR SECTION)	13 MCA	208	1	10.40	2163 VA	208 V/2-2163 VA	L2	2A	30 A	1	-	15	15	
DRP-1	DOMESTIC RECIRCULATION PUMP	150 W	120	1	1.25	150 VA	120 V/1-150 VA	L1	5A	20	1	-	-	20	
DRP-2	DOMESTIC RECIRCULATION PUMP	150 W	120	1	1.25	150 VA	120 V/1-150 VA	L1	5A	20	1	-	-	20	
RTU-1	ROOFTOP CONDENSING UNIT (4.0 TON)	15.8 MCA	480	3	12.72	10575 VA	480 V/3-10575 VA	H1	2A	30 A	1	-	20	20	
RTU-2	ROOFTOP CONDENSING UNIT (5.0 TON)	21.9 MCA	480	3	17.52	14586 VA	480 V/3-14586 VA	H1	2A	30 A	1	-	30	30	
RTU-3	ROOFTOP CONDENSING UNIT (4.0 TON)	15.8 MCA	480	3	12.72	10575 VA	480 V/3-10575 VA	H1	2A	30 A	1	-	20	20	
RTU-4	ROOFTOP CONDENSING UNIT (4.0 TON)	15.8 MCA	480	3	12.72	10575 VA	480 V/3-10575 VA	H1	2A	30 A	1	-	20	20	
RTU-5	ROOFTOP CONDENSING UNIT (5.0 TON)	18.5 MCA	480	3	14.89	12304 VA	480 V/3-12304 VA	H1	2A	30 A	1	-	25	25	
RTU-6	ROOFTOP CONDENSING UNIT (5.0 TON)	18.5 MCA	480	3	14.89	12304 VA	480 V/3-12304 VA	H1	2A	30 A	1	-	25	25	
RTU-7	ROOFTOP CONDENSING UNIT (5.0 TON)	18.5 MCA	480	3	14.89	12304 VA	480 V/3-12304 VA	H1	2A	30 A	1	-	25	25	
RTU-8	ROOFTOP CONDENSING UNIT (5.0 TON)	18.5 MCA	480	3	14.89	12304 VA	480 V/3-12304 VA	H1	2A	30 A	1	-	25	25	
RTU-9	ROOFTOP CONDENSING UNIT (5.0 TON)	18.5 MCA	480	3	14.89	12304 VA	480 V/3-12304 VA	H1	2A	30 A	1	-	25	25	
RTU-10	ROOFTOP CONDENSING UNIT (4.0 TON)	15.8 MCA	480	3	12.72	10575 VA	480 V/3-10575 VA	H1	2A	30 A	1	-	20	20	
RTU-11	ROOFTOP CONDENSING UNIT (5.0 TON)	21.9 MCA	480	3	17.52	14586 VA	480 V/3-14586 VA	H1	2A	30 A	1	-	30	30	
RTU-12	ROOFTOP CONDENSING UNIT (3.0 TON)	14.6 MCA	480	3	11.68	9711 VA	480 V/3-9711 VA	H1	2A	30 A	1	-	15	15	
WH-1	ELECTRIC WATER HEATER (TANK STYLE)	4.5 KW	208	1	21.63	4500 VA	208 V/2-4500 VA	L1	2A	30 A	1	-	30	30	
WH-2	ELECTRIC WATER HEATER (TANK STYLE)	4.5 KW	208	1	21.63	4500 VA	208 V/2-4500 VA	L1	2A	30 A	1	-	30	30	

LUMINAIRE SCHEDULE

REMARKS LEGEND

1. PROVIDE HOUSE SIDE SHIELD WITH 0% OF RESIDENTIAL PROPERTY.
2. EACH FIXTURE SHALL BE PROVIDED WITH A NOMINAL BATTERY PACK. PROVIDE A CONSTANT HOT WIRE TO THE LIGHT FIXTURE FOR THE BATTERY PACK.
3. PROVIDE WITH A FIELD INSTALLED FLANGE KIT FULLY GASKETED
4. PROVIDE WITH DRIVER AND REMOTE DRIVER.
5. ALL FIXTURES OVER ARROONS SHALL BE PROVIDED WITH 0-10V DIMMING.
6. DIMMING RELAY IN THE LIGHTING CONTROL PANEL SHALL BE AN ELV 1NO DIMMING RELAY.
7. PROVIDE CBP-124 BATTERY PACK AND PE1 PHOTOCELL OPTION FOR FIXTURE IN THE GENERATOR ENCLOSURE AND AT A LOCATION.
8. PROVIDE REMOTE POWER SUPPLY'S. PROVIDE (6) FIXTURE POWER SUPPLY AND (6) FIXTURE POWER SUPPLY FOR EMERGENCY FIXTURES.
9. FIXTURE WITH INTEGRAL OCCUPANCY AND DAYLIGHTING DIMMING SENSOR FOR UP TO 1000 SQ FT.

FIXTURE MARK	LUMINAIRE MANUFACTURER	LUMINAIRE CATALOG #	DESCRIPTION	LAMPS: LUMENS	LAMPS: CCT / COLOR	VOLTAGE	LUMINAIRE WATT (W as a WHT)	MOUNTING	REMARKS
A1-20	LITHONIA LIGHTING	DSX1 LED P1 40K 70CRI TFTM	D-Series Size 1 Area Luminaire P1 Performance Package 4000K CCT 70 CRI Forward Throw	7760 LUMEN LED	4000K 70CRI	UNV (120-277)	50.9 W	POLE 15	1
A2-20	LITHONIA LIGHTING	(2)DSX1 LED P1 40K 70CRI TFTM	D-Series Size 1 Area Luminaire P1 Performance Package 4000K CCT 70 CRI Forward Throw	(2)7760 LUMEN LED	4000K 70CRI	UNV (120-277)	101.8 W	POLE 15	1
A3-20	LITHONIA LIGHTING	DSX2 LED P8 40K 70CRI TFTM	D-Series Size 2 Area Luminaire P8 Performance Package 4000K CCT 70 CRI Forward Throw	57552 LUMEN LED	4000K 70CRI	UNV (120-277)	462.5 W	POLE 15	1
EX3	ISOLITE	ELP-G-QUANNTEB	THERMOPLASTIC EXIT SIGN EM LIGHT BAR INTERNAL NiCd BATTERY PACK GREEN LETTERS WHITE FINISH	184 LUMEN LED	4000K	UNV (120-277)	5 W	CEILING/ WALL	
EX9	LITHONIA LIGHTING	AFF PEL DDBTXD UVOLT LTP SDRT FCT CW	EXTERIOR EGRESS WALL PACK WITH PHOTOCELL NORMALLY-ON OPERATION DARK BRONZE TEXTURED FINISH LPP BATTERY COMPARTMENT RATED FIELD-CONFIGURABLE DISTRIBUTION	685 LUMEN LED	4000K 70CRI	UNV (120-277)	20.4 W	WALL	
T1N	LITHONIA LIGHTING	CPX 2X4 5000LM 80 CRI 40K SWL MINT MVOLT PWS IB35 NLIGHT	2'X4' FLAT PANEL SWITCHABLE LMDCT SATIN WHITE FINISH 6 PREWIRE #18GWTCKT NLIGHT ENABLED	4982 LUMEN LED	4000K 80CRI	UNV (120-277)	35.9 W	RECESSED	
T1NE	LITHONIA LIGHTING	CPX 2X4 5000LM 80 CRI 40K SWL MINT MVOLT PWS IB35 NLIGHT	2'X4' FLAT PANEL SWITCHABLE LMDCT SATIN WHITE FINISH 10W BATTERY PACK E PREWIRE #18GWTCKT NLIGHT ENABLED	4982 LUMEN	4000K 80CRI	UNV (120-277)	35.9 W	RECESSED	
T2	GOTHAM LIGHTING	LND6 40/10 LO6AR LSS MVOLT EZ1	6" RECESSED DOWNLIGHT ELDOLED 0-10V DIMMING TO 1% CLEAR SEMI-SPECULAR FINISH	950 LUMEN LED	4000K 80CRI	UNV (120-277)	10.4 W	RECESSED	
T2E	GOTHAM LIGHTING	LND6 40/10 L06AR LSS MVOLT EZ1 EL	6" RECESSED DOWNLIGHT 10W BATTERY PACK ELDOLED 0-10V DIMMING TO 1% CLEAR SEMI-SPECULAR FINISH	950 LUMEN LED	4000K 80CRI	UNV (120-277)	10.4 W	RECESSED	
T3	LITHONIA LIGHTING	SBL4 4000LM 80CRI 40K MINT GZT MVOLT DMGV	4' SURFACE WRAPAROUND 0-10V DIMMING	3933 LUMEN LED	4000K 80CRI	UNV (120-277)	35 W	SURFACE	
T3E	LITHONIA LIGHTING	SBL4 4000LM 80CRI 40K MINT GZT MVOLT DMGV	4' SURFACE WRAPAROUND 10W INTEGRAL BATTERY PACK 0-10V DIMMING	3933 LUMEN LED	4000K 80CRI	UNV (120-277)	36 W	SURFACE	
WP1	LITHONIA LIGHTING	WST LED P2 40K VW MVOLT	EXTERIOR WALL PACK WIDE DISTRIBUTION	3511 LUMEN LED	4000K 70CRI	UNV (120-277)	25 W	WALL	
WS	KEYSTONE TECHNOLOGIES	KT-CYLED/KPS-6A-WCH-CS-C-CSS-VDIM	6" CYLINDER SCONCE 25° UP / 60° DOWN BRONZE FINISH	3100 LUMEN LED	4000K 80+CRI	UNV (120-277)	36 W	WALL	

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WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LANE
MILLS, WYOMING

DATE 10/1/2024
PROJECT 2024EC1
MANAGER JS

REVISIONS

#	DATE	DESCRIPTION
		Addendum A

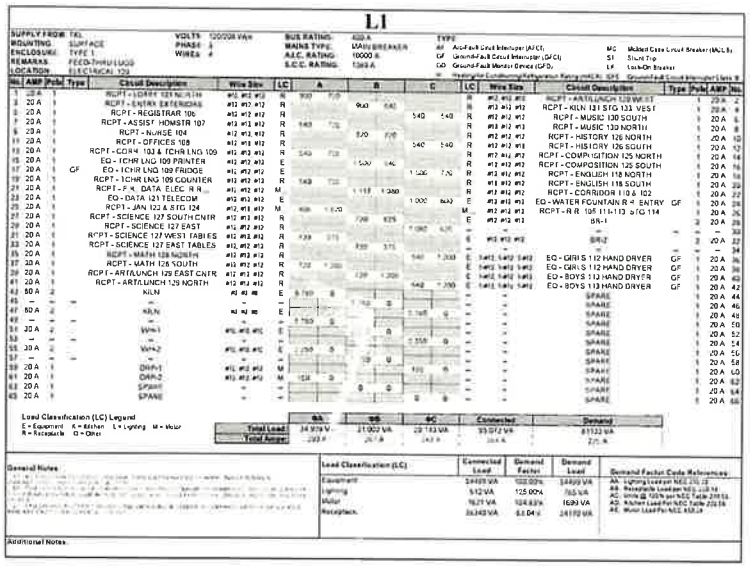
ELECTRICAL SCHEDULES

SHEET NUMBER:
E501

ALDER ELECTRIC
ENGINEERING AND ELECTRICAL SERVICES
DESIGN BUILD – COMMERCIAL - INDUSTRIAL

THIS DRAWING EMBODIES IDEAS, DESIGN ARRANGEMENTS, PLANS AND SPECIFICATIONS WHICH ARE PROPRIETARY TO ALDER ELECTRIC COMPANY, LLC AND WHICH WERE DESIGNED, CREATED, EVOLVED AND DEVELOPED FOR USE SOLELY BY ALDER ELECTRIC COMPANY, LLC IN CONNECTION WITH THIS SPECIFIED PROJECT. NO TRANSFER OF ANY RIGHTS HERETO IS INTENDED OR EFFECTED BY DELIVERY HEREOF, AND EXCEPT UPON THE WRITTEN PERMISSION OF ALDER ELECTRIC COMPANY, LLC THIS DRAWING IS NOT TO BE DISCLOSED TO OTHERS, REPRODUCED OR COPIED IN WHOLE OR PART OR USED IN FABRICATION CONSTRUCTION OF BUILDINGS, STRUCTURES, FOUNDATIONS OR ANY PORTION THEREOF. FOR OTHER THAN THIS SPECIFIED PROJECT BY ALDER ELECTRIC COMPANY, LLC. THIS IS NOT INTENDED TO BE A FULL REPRESENTATION OF THE ELECTRICAL SERVICES ON THE PROJECT AND CAN NOT BE VIEWED AS SUCH DUE TO THE DESIGN NATURE AND THE INTENTION THAT ALDER ELECTRIC COMPANY, LLC WILL BE THE ELECTRICAL CONTRACTOR ON THE PROJECT. THE ELECTRICAL DESIGN LIABILITY FOR THIS PROJECT IS ONLY ASSUMED UNDER THE SE CONDITIONS AND IS VOID UNDER ANY OTHER CIRCUMSTANCES WITHOUT PRIOR WRITTEN APPROVAL FROM ALDER ELECTRIC COMPANY LLC.

PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.



L1

SUPPLY FROM: TEL	VOLTS: 120/208 Wye	BUS RATING: 400 A	TYPE
MOUNTING: SURFACE	PHASE: 3	MAINS TYPE: MAIN BREAKER	AF Arc-Fault Circuit Interrupter (AFCI)
ENCLOSURE: TYPE 1	WIRES: 4	A.I.C. RATING: 10000 A	GF Ground-Fault Circuit Interrupter (GFCI)
REMARKS: FEED-THRU LUGS		S.C.C. RATING: 1369 A	GD Ground-Fault Monitor Device (GFD)
LOCATION: ELECTRICAL 109			W Watertight Conditioning/Refrigeration Rating (WCR)

MC Molded Case Circuit Breaker (MCCB)
ST Shunt Trip
LK Lock-On Breaker
SPS Ground-Fault Circuit Interrupter Class 'B'

No.	AMP	Pole	Type	Circuit Description	Wire Size	LC	A	B	C	LC	Wire Size	Circuit Description	Type	Pole	AMP	No.
1	20 A	1		RCPT - LOBBY 105 NORTH	#12 #12 #12	R	900	720		R	#12 #12 #12	RCPT - ANTE LUNCH 128 WEST		1	20 A	2
3	20 A	1		RCPT - ENTRY 105 EXTERIOR	#12 #12 #12	R		900	540	R	#12 #12 #12	RCPT - KILN 131 STG 133 VEST		1	20 A	4
5	20 A	1		RCPT - REGISTRAR 106	#12 #12 #12	R			540	R	#12 #12 #12	RCPT - MUSIC 130 SOUTH		1	20 A	6
7	20 A	1		RCPT - ASSIST HOMSTR 107	#12 #12 #12	R	180	720		R	#12 #12 #12	RCPT - MUSIC 130 NORTH		1	20 A	8
9	20 A	1		RCPT - NURSE 104	#12 #12 #12	R		720	720	R	#12 #12 #12	RCPT - HISTORY 126 NORTH		1	20 A	10
11	20 A	1		RCPT - OFFICES 108	#12 #12 #12	R			540	R	#12 #12 #12	RCPT - HISTORY 126 SOUTH		1	20 A	12
13	20 A	1		RCPT - CORR 103 & TCHR LNG 109	#12 #12 #12	R	540	720		R	#12 #12 #12	RCPT - COMPETITION 125 NORTH		1	20 A	14
15	20 A	1		EQ - TCHR LNG 109 PRINTER	#12 #12 #12	E			540	R	#12 #12 #12	RCPT - COMPOSITION 125 SOUTH		1	20 A	16
17	20 A	1	GF	EQ - TCHR LNG 109 FRIDGE	#12 #12 #12	E				R	#12 #12 #12	RCPT - ENGLISH 118 NORTH		1	20 A	18
19	20 A	1		RCPT - TCHR LNG 109 COUNTER	#12 #12 #12	R	180	720		R	#12 #12 #12	RCPT - ENGLISH 118 SOUTH		1	20 A	20
21	20 A	1		RCPT - F. K. DATA ELEC. R. R.	#12 #12 #12	M				R	#12 #12 #12	RCPT - CORRIDOR 110 & 102		1	20 A	22
23	20 A	1		EQ - DATA 121 TELECOM	#12 #12 #12	E				E	#12 #12 #12	EQ - WATER FOUNTAIN R. + ENTRY	GF	1	20 A	24
25	20 A	1		RCPT - JAN 122 & STG 124	#12 #12 #12	M				M	#12 #12 #12	RCPT - R.R. 105 111-113 & STG 114		1	20 A	26
27	20 A	1		RCPT - SCIENCE 127 SOUTH CNTR	#12 #12 #12	R				E	#12 #12 #12	BR-1		2	30 A	28
29	20 A	1		RCPT - SCIENCE 127 EAST	#12 #12 #12	R				–	–	–		–	–	30
31	20 A	1		RCPT - SCIENCE 127 WEST TABLES	#12 #12 #12	R				E	#12 #12 #12	BR-2		2	30 A	32
33	20 A	1		RCPT - SCIENCE 127 EAST TABLES	#12 #12 #12	R				–	–	–		–	–	34
35	20 A	1		RCPT - MATH 128 NORTH	#12 #12 #12	R				E	1wh12 1wh12 1wh12	EQ - GIRLS 112 HAND DRYER	GF	1	20 A	36
37	20 A	1		RCPT - MATH 126 SOUTH	#12 #12 #12	R				E	1wh12 1wh12 1wh12	EQ - GIRLS 112 HAND DRYER	GF	1	20 A	38
39	20 A	1		RCPT - ART/LUNCH 129 EAST CNTR	#12 #12 #12	R				E	1wh12 1wh12 1wh12	EQ - BOYS 110 HAND DRYER	GF	1	20 A	40
41	20 A	1		RCPT - ART/LUNCH 129 NORTH	#12 #12 #12	R				E	1wh12 1wh12 1wh12	EQ - BOYS 113 HAND DRYER	GF	1	20 A	42
43	50 A	2		KILN	#6 #6 #8	E				–	–	SPARE		1	20 A	44
45	–	–	–	–	–	–				–	–	SPARE		1	20 A	46
47	50 A	2		KILN	#6 #6 #8	E				–	–	SPARE		1	20 A	48
49	–	–	–	–	–	–				–	–	SPARE		1	20 A	50
51	20 A	2		WH-1	#10 #10 #10	E				–	–	SPARE		1	20 A	52
53	–	–	–	–	–	–				–	–	SPARE		1	20 A	54
55	20 A	2		WH-2	#10 #10 #10	E				–	–	SPARE		1	20 A	56
57	–	–	–	–	–	–				–	–	SPARE		1	20 A	58
59	20 A	1		DRY-1	#12 #12 #12	M				–	–	SPARE		1	20 A	60
61	20 A	1		DRY-2	#12 #12 #12	M				–	–	SPARE		1	20 A	62
63	20 A	1		SPARE	–	–				–	–	SPARE		1	20 A	64
65	20 A	1		SPARE	–	–				–	–	SPARE		1	20 A	66

Load Classification (LC) Legend
E = Equipment K = Kitchen L = Lighting M = Motor
R = Receptacle O = Other

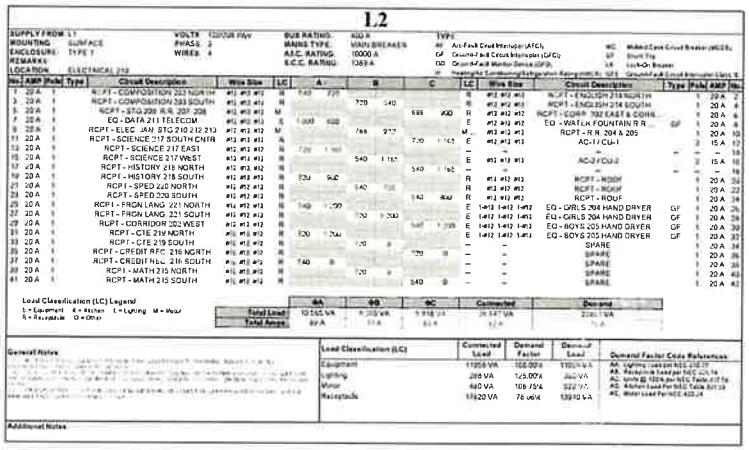
	6A	6B	6C	Connected	Demand
Total Load:	34 979 VA	21 002 VA	29 183 VA	85 012 VA	61122 VA
Total Amps:	292 A	267 A	243 A	304 A	221 A

General Notes

Load Classification (LC)	Connected Load	Demand Factor	Demand Load
Equipment	34405 VA	100.00%	34405 VA
Lighting	5124 VA	125.00%	7655 VA
Motor	1621 VA	104.63%	1699 VA
Receptacle	38343 VA	63.04%	24172 VA

Demand Factor Code References:
AA: Lighting Load per NEC 220.12
AB: Receptacle Load per NEC 220.14
AC: Units @ 100% per NEC Table 220.54
AD: Kitchen Load Per NEC Table 220.56
AE: Motor Load Per NEC 430.24

Additional Notes



L2

SUPPLY FROM: L1	VOLTS: 120/208 Wye	BUS RATING: 400 A	TYPE
MOUNTING: SURFACE	PHASE: 3	MAINS TYPE: MAIN BREAKER	AF Arc-Fault Circuit Interrupter (AFCI)
ENCLOSURE: TYPE 1	WIRES: 4	A.I.C. RATING: 10000 A	GF Ground-Fault Circuit Interrupter (GFCI)
REMARKS:		S.C.C. RATING: 1369 A	GD Ground-Fault Monitor Device (GFD)
LOCATION: ELECTRICAL 212			W Watertight Conditioning/Refrigeration Rating (WCR)

MC Molded Case Circuit Breaker (MCCB)
ST Shunt Trip
LK Lock-On Breaker
SPS Ground-Fault Circuit Interrupter Class 'B'

No.	AMP	Pole	Type	Circuit Description	Wire Size	LC	A	B	C	LC	Wire Size	Circuit Description	Type	Pole	AMP	No.
1	20 A	1		RCPT - COMPOSITION 203 NORTH	#12 #12 #12	R	540	720		R	#12 #12 #12	RCPT - ENGLISH 214 NORTH		1	20 A	2
3	20 A	1		RCPT - COMPOSITION 203 SOUTH	#12 #12 #12	R		720	540	R	#12 #12 #12	RCPT - ENGLISH 214 SOUTH		1	20 A	4
5	20 A	1		RCPT - STG 209 R.R. 207 208	#12 #12 #12	M			900	900	R	#12 #12 #12	RCPT - CORR 202 EAST & CORR.		1	20 A	6
7	20 A	1		EQ - DATA 211 TELECOM	#12 #12 #12	E	1,000	900		E	#12 #12 #12	EQ - WATER FOUNTAIN R R.	GF	1	20 A	8
9	20 A	1		RCPT - ELEC. JAN STG 210 212 213	#12 #12 #12	M		180	900	M	#12 #12 #12	RCPT - R R 204 & 205		1	20 A	10
11	20 A	1		RCPT - SCIENCE 215 SOUTH CNTR	#12 #12 #12	R				720	1,080	AC-1 / CU-1		2	15 A	12
13	20 A	1		RCPT - SCIENCE 217 EAST	#12 #12 #12	R	720	1,080		–	–	–		–	–	14
15	20 A	1		RCPT - SCIENCE 217 WEST	#12 #12 #12	R			540	E	#12 #12 #12	AC-2 / CU-2		2	15 A	16
17	20 A	1		RCPT - HISTORY 218 NORTH	#12 #12 #12	R			540	1,080	–	–		–	–	18
19	20 A	1		RCPT - HISTORY 218 SOUTH	#12 #12 #12	R	720	900		R	#12 #12 #12	RCPT - ROOF		1	20 A	20
21	20 A	1		RCPT - SPED 220 NORTH	#12 #12 #12	R			540	720	R	#12 #12 #12	RCPT - ROOF		1	20 A	22
23	20 A	1		RCPT - SPED 220 SOUTH	#12 #12 #12	R				540	900	R	#12 #12 #12	RCPT - ROOF		1	20 A	24
25	20 A	1		RCPT - FRON LANG 221 NORTH	#12 #12 #12	R	540	1,080		E	1wh12 1wh12 1wh12	EQ - GIRLS 204 HAND DRYER	GF	1	20 A	26
27	20 A	1		RCPT - FRON LANG 221 SOUTH	#12 #12 #12	R			720	1,080	E	1wh12 1wh12 1wh12	EQ - GIRLS 204 HAND DRYER	GF	1	20 A	28
29	20 A	1		RCPT - CORRIDOR 202 WEST	#12 #12 #12	R				540	1,080	E	1wh12 1wh12 1wh12	EQ - BOYS 205 HAND DRYER	GF	1	20 A	30
31	20 A	1		RCPT - CTE 219 NORTH	#12 #12 #12	R	720	1,080		E	1wh12 1wh12 1wh12	EQ - BOYS 205 HAND DRYER	GF	1	20 A	32
33	20 A	1		RCPT - CTE 219 SOUTH	#12 #12 #12	R			720	900	–	–		–	–	34
35	20 A	1		RCPT - CREDIT REC. 216 NORTH	#12 #12 #12	R				720	900	–		–	–	36
37	20 A	1		RCPT - CREDIT REC. 216 SOUTH	#12 #12 #12	R	540	900		–	–	SPARE		1	20 A	38
39	20 A	1		RCPT - MATH 215 NORTH	#12 #12 #12	R			720	900	–	–		–	–	40
41	20 A	1		RCPT - MATH 215 SOUTH	#12 #12 #12	R				540	900	–		–	–	42

Load Classification (LC) Legend
E = Equipment K = Kitchen L = Lighting M = Motor
R = Receptacle O = Other

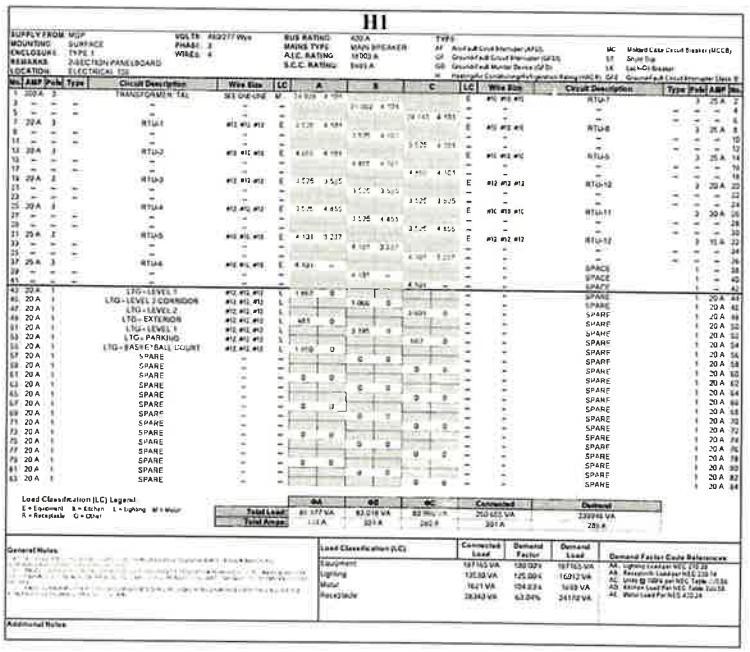
	6A	6B	6C	Connected	Demand
Total Load:	10 145 VA	4 305 VA	5 918 VA	20 547 VA	2281 VA
Total Amps:	84 A	36 A	49 A	171 A	19 A

General Notes

Load Classification (LC)	Connected Load	Demand Factor	Demand Load
Equipment	11958 VA	100.00%	11958 VA
Lighting	288 VA	125.00%	360 VA
Motor	480 VA	108.75%	522 VA
Receptacle	17820 VA	78.06%	13910 VA

Demand Factor Code References:
AA: Lighting Load per NEC 220.12
AB: Receptacle Load per NEC 220.14
AC: Units @ 100% per NEC Table 220.54
AD: Kitchen Load Per NEC Table 220.56
AE: Motor Load Per NEC 430.24

Additional Notes



H1

SUPPLY FROM: MDP	VOLTS: 480/277 Wye	BUS RATING: 400 A	TYPE
MOUNTING: SURFACE	PHASE: 3	MAINS TYPE: MAIN BREAKER	AF Arc-Fault Circuit Interrupter (AFCI)
ENCLOSURE: TYPE 1	WIRES: 4	A.I.C. RATING: 10000 A	GF Ground-Fault Circuit Interrupter (GFCI)
REMARKS: 2 SECTION PANELBOARD		S.C.C. RATING: 5985 A	GD Ground-Fault Monitor Device (GFD)
LOCATION: ELECTRICAL 108			W Watertight Conditioning/Refrigeration Rating (WCR)

MC Molded Case Circuit Breaker (MCCB)
ST Shunt Trip
LK Lock-On Breaker
SPS Ground-Fault Circuit Interrupter Class 'B'

No.	AMP	Pole	Type	Circuit Description	Wire Size	LC	A	B	C	LC	Wire Size	Circuit Description	Type	Pole	AMP	No.
1	200 A	3		TRANSFORMER TAL	SEE ONE-LINE	M	14 909	14 909		E	#10 #10 #10	RTU-7		3	25 A	2
3	–	–	–	–	–	–			21 002	4 724	–	–	–	–	–	4
5	–	–	–	–	–	–					–	–	–	–	–	6
7	20 A	3		RTU-1	#10 #10 #10	E	3 535	4 181			–	–	–	–	–	8
9	–	–	–	–	–	–			3 535	4 181	E	#10 #10 #10	RTU-8	3	25 A	10
11	–	–	–	–	–	–					–	–	–	–	–	12
13	20 A	3		RTU-2	#10 #10 #10	E	4 655	4 181		3 535	4 181	–	–	–	–	14
15	–	–	–	–	–	–			4 655	4 181	E	#10 #10 #10	RTU-9	3	25 A	16
17	–	–	–	–	–	–					–	–	–	–	–	18
19	20 A	3		RTU-3	#10 #10 #10	E	3 535	3 535		4 655	4 181	–	–	–	–	20
21	–	–	–	–	–	–			3 535	3 535	–	–	–	–	–	22
23	–	–	–	–	–	–					–	–	–	–	–	24
25	20 A	3		RTU-4	#10 #10 #10	E	3 535	4 655		3 535	4 655	–	–	–	–	26
27	–	–	–	–	–	–			3 535	4 655	–	–	–	–	–	28
29	–	–	–	–	–	–					E	#10 #10 #10	RTU-11	3	30 A	30
31	20 A	3		RTU-5	#10 #10 #10	E	4 181	3 237		3 535	4 655	–	–	–	–	32
33	–	–	–	–	–	–			4 181	3 237	–	–	–	–	–	34
35	–	–	–	–	–	–					–	–	–	–	–	36
37	20 A	3		RTU-6	#10 #10 #10	E	4 181	–	–	4 181	3 237	–	–	–	–	38
39	–	–	–	–	–	–			4 181	–	–	–	SPACE	1	–	40
41	–	–	–	–	–	–				4 181	–	–	SPACE	1	–	42
43	20 A	1		LTG - LEVEL 1	#12 #12 #12	L	1 867	0		–	–	–	SPARE	1	20 A	44
45	20 A	1		LTG - LEVEL 2 CORRIDOR	#12 #12 #12	L			1 066	0	–	–	SPARE	1	20 A	46
47	20 A	1		LTG - LEVEL 2	#12 #12 #12	L					3 001	0	SPARE	1	20 A	48
49	20 A	1		LTG - EXTERIOR	#12 #12 #12	L	451	0			–	–	SPARE	1	20 A	50
51	20 A	1		LTG - LEVEL 1	#12 #12 #12	L			3 395	0	–	–	SPARE	1	20 A	52
53	20 A	1		LTG - PARKING	#12 #12 #12	L					667	0	SPARE	1	20 A	54
55	20 A	1		LTG - BASKETBALL COURT	#12 #12 #12	L	1 918	0			–	–	SPARE	1	20 A	56
57	20 A	1		SPARE	–	–				G	0	–	SPARE	1	20 A	58
59	20 A	1		SPARE	–	–			G			–	SPARE	1	20 A	60
61	20 A	1		SPARE	–	–		0			0	–	SPARE	1	20 A	62
63	20 A	1		SPARE	–	–			G	0		–	SPARE	1	20 A	64
65	20 A	1		SPARE	–	–		0			0	–	SPARE	1	20 A	66
67	20 A	1		SPARE	–	–			G	0		–	SPARE	1	20 A	68
69	20 A	1		SPARE	–	–		0			0	–	SPARE	1	20 A	70
71	20 A	1		SPARE	–	–			G	0		–	SPARE	1	20 A	72
73	20 A	1		SPARE	–	–		0			0	–	SPARE	1	20 A	74
75	20 A	1		SPARE	–	–			G	0		–	SPARE	1	20 A	76
77	20 A	1		SPARE	–	–		0			0	–	SPARE	1	20 A	78
79	20 A	1		SPARE	–	–			G	0		–	SPARE	1	20 A	80
81	20 A	1		SPARE	–	–		0			0	–	SPARE	1	20 A	82
83	20 A	1		SPARE	–	–			G	0		–	SPARE	1	20 A	84

Load Classification (LC) Legend
E = Equipment K = Kitchen L = Lighting M = Motor
R = Receptacle O = Other

	6A	6B	6C	Connected	Demand
Total Load:	61 377 VA	53 016 VA	53 760 VA	250 653 VA	239998 VA
Total Amps:	118 A	101 A	102 A	301 A	288 A

General Notes

Load Classification (LC)	Connected Load	Demand Factor	Demand Load
Equipment	197165 VA	100.00%	197165 VA
Lighting	13583 VA	125.00%	16312 VA
Motor	1621 VA	104.63%	1699 VA
Receptacle	38343 VA	63.04%	24172 VA

Demand Factor Code References:
AA: Lighting Load per NEC 220.12
AB: Receptacle Load per NEC 220.14
AC: Units @ 100% per NEC Table 220.54
AD: Kitchen Load Per NEC Table 220.56
AE: Motor Load Per NEC 430.24

Additional Notes

ALDER ELECTRIC
ENGINEERING AND ELECTRICAL SERVICES
DESIGN BUILD – COMMERCIAL - INDUSTRIAL

THIS DRAWING EMBODIES IDEAS, DESIGN ARRANGEMENTS, PLANS AND SPECIFICATIONS WHICH ARE PROPRIETARY TO ALDER ELECTRIC COMPANY, LLC AND WHICH WERE DESIGNED, CREATED, EVOLVED AND DEVELOPED FOR USE SOLELY BY ALDER ELECTRIC COMPANY, LLC IN CONNECTION WITH THIS SPECIFIED PROJECT. NO TRANSFER OF ANY RIGHTS HERETO IS INTENDED OR EFFECTED BY DELIVERY HEREOF, AND EXCEPT UPON THE WRITTEN PERMISSION OF ALDER ELECTRIC COMPANY, LLC, THIS DRAWING IS NOT TO BE DISCLOSED TO OTHERS, REPRODUCED OR COPIED IN WHOLE OR PART, OR USED IN FABRICATION/CONSTRUCTION OF BUILDINGS, STRUCTURES, FOUNDATIONS OR ANY PORTION THEREOF, FOR OTHER THAN THIS SPECIFIED PROJECT BY ALDER ELECTRIC COMPANY, LLC. THIS IS NOT INTENDED TO BE A FULL REPRESENTATION OF THE ELECTRICAL SERVICES ON THE PROJECT AND CAN NOT BE VIEWED AS SUCH DUE TO THE DESIGN NATURE AND THE INTENTION THAT ALDER ELECTRIC COMPANY, LLC WILL BE THE ELECTRICAL CONTRACTOR ON THE PROJECT. THE ELECTRICAL DESIGN LIABILITY FOR THIS PROJECT IS ONLY ASSUMED UNDER THESE CONDITIONS AND IS VOID UNDER ANY OTHER CIRCUMSTANCES WITHOUT PRIOR WRITTEN APPROVAL FROM ALDER ELECTRIC COMPANY, LLC.

PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.

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WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LANE
MILLS, WYOMING

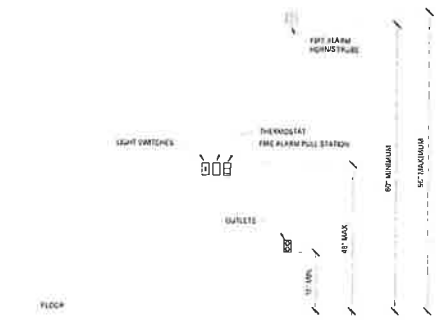
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MANAGER: JR

REVISIONS

#	DATE	DESCRIPTION

ELECTRICAL SCHEDULES

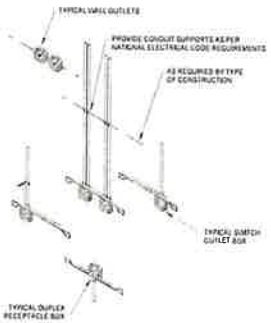
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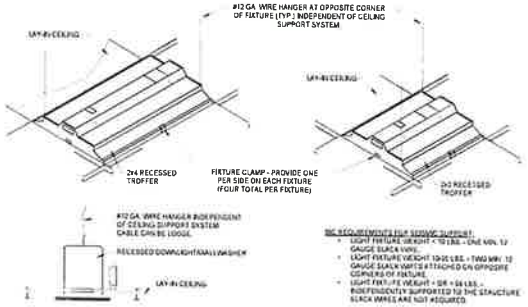
1 ELECTRICAL DEVICE AND ADA MOUNTING HEIGHTS
E601 NOT TO SCALE

NOTES:

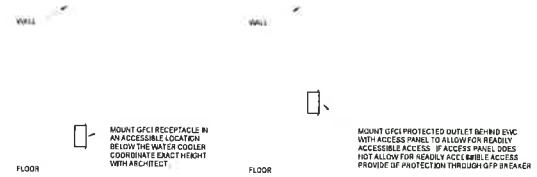
1. TYPICAL FOR WOOD AND METAL STUD ROUGH IN.
2. PLASTER RINGS NOT SHOWN.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE.



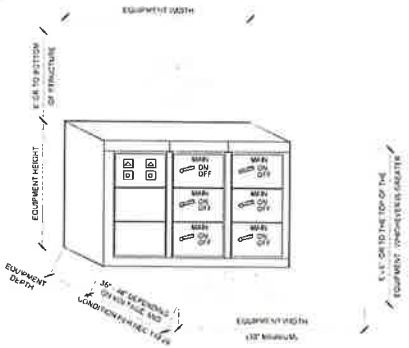
2 ROUGH-IN REQUIREMENTS (COMMERCIAL)
E601 NOT TO SCALE



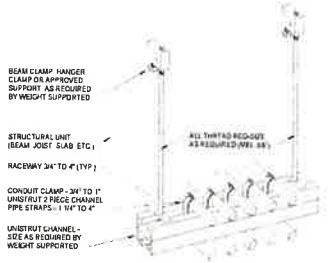
3 LAY-IN GRID FIXTURE SEISMIC MOUNTING
E601 NOT TO SCALE



4 WATER COOLER RECEPTACLE MOUNTING
E601 NOT TO SCALE



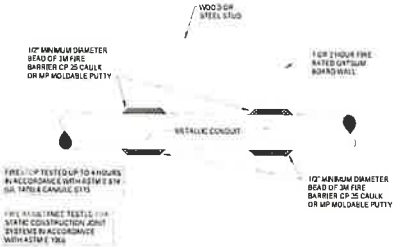
5 ELECTRICAL EQUIPMENT CLEARANCE
E601 NOT TO SCALE



6 TRAPEZE CONDUIT RACK - TYPICAL SINGLE TIER
E601 NOT TO SCALE

NOTE

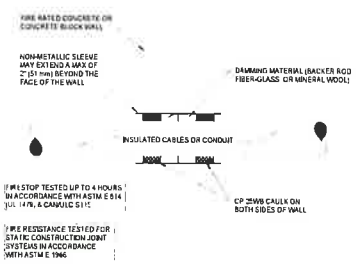
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.



7 FIRESTOP THRU GYPSUM BOARD WALL
E601 NOT TO SCALE

NOTE

TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.



8 FIRESTOP THRU CONCRETE/MASONRY WALL
E601 NOT TO SCALE

PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ANY AND ALL PERMITS REQUIRED FOR PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE GOVERNING AUTHORITIES.

ALDER ELECTRIC
ENGINEERING AND ELECTRICAL SERVICES
DESIGN BUILD – COMMERCIAL - INDUSTRIAL

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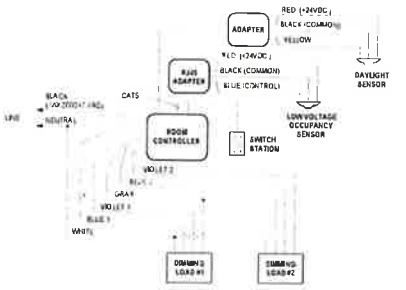
WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LANE
MILLS, WYOMING

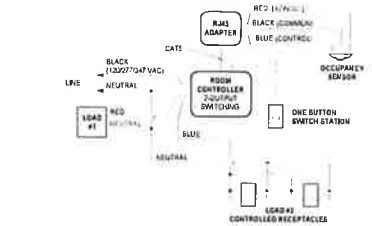
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PROJECT NUMBER
MANAGER

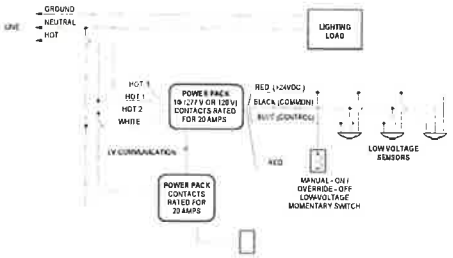
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ELECTRICAL DETAILS

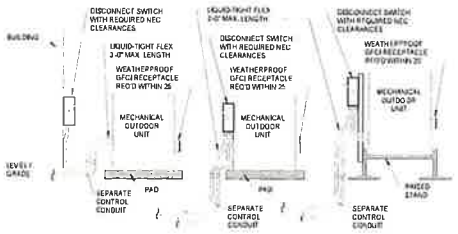
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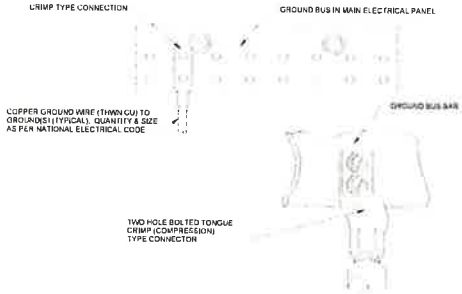




1 OC SENSOR WIRING DIAGRAM
E602 NOT TO SCALE



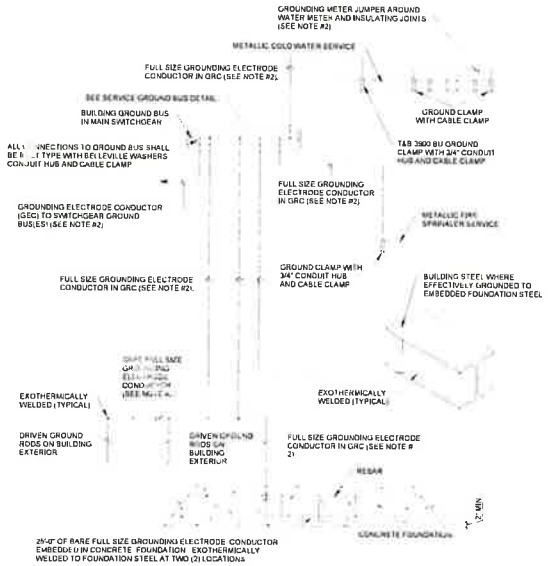
2 EQUIPMENT DISCONNECT MOUNTING
E602 NOT TO SCALE



3 SERVICE GROUND BUS DETAIL
E602 NOT TO SCALE

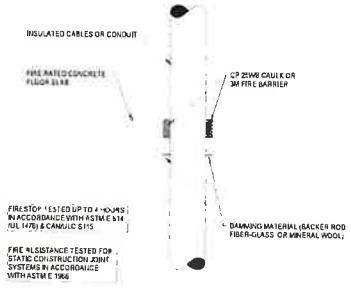
SERVICE GROUNDING NOTES

1. PROVIDE AND INSTALL ALL GROUNDING MEANS INDICATED. ELECTRICAL CONTRACTOR TO COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE AND PROVIDE AND INSTALL ALL GROUNDING METHODS THAT ARE AVAILABLE FOR THIS PROJECT
2. ELECTRICAL CONTRACTOR SHALL REFER TO ELECTRICAL ONE LINE DIAGRAM FOR GROUNDING ELECTRODE CONDUCTOR SIZE. GROUNDING CONDUCTOR SIZE SHOWN ON THE ONE LINE DIAGRAM SHALL BE THE SAME FOR ALL METHODS OF GROUNDING SHOWN IN THIS DETAIL. ELECTRICAL CONTRACTOR SHALL REFER TO ELECTRICAL SPECIFICATIONS FOR SPECIFICS OF GROUNDING SYSTEM INSTALLATION AND MATERIALS

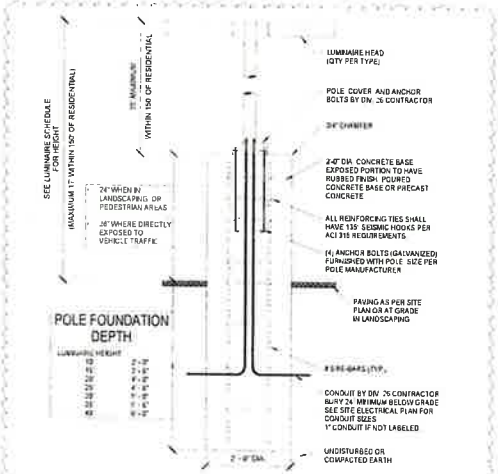


4 SERVICE GROUNDING DETAIL
E602 NOT TO SCALE

NOTE:
TYPICAL DETAILS SHOWING GENERAL FIRE-STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS



5 FIRESTOP THRU CONCRETE FLOOR
E602 NOT TO SCALE



6 POLE BASE
E602 NOT TO SCALE

ALDER ELECTRIC
ENGINEERING AND ELECTRICAL SERVICES
DESIGN BUILD – COMMERCIAL - INDUSTRIAL

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SILVERPEAK ENGINEERING
STRUCTURAL CIVIL SURVEY WWW.SILVERPEAKENG.COM
177 E. ANTELOPE DR. STE B
LAYTON, UT 84041
PHONE (801) 499-5054

WYOMING CLASSICAL ACADEMY
6389 POISON SPIDER LANE
MILLS, WYOMING

DATE 10/17/24
PROJECT 2024-43
MANAGER JS

REVISIONS

#	DESCRIPTION
1	Addendum #1

ELECTRICAL DETAILS

SHEET NUMBER
E602

ENGINEERS

October 23, 2026

Robert Bennett
Civil Engineering Professionals, Inc.,
6080 Enterprise Drive,
Casper, WY 82609

Wyoming Classical Academy – Phase II - Site Drainage

Mr. Bennett,

ECS Engineers has been requested to produce a report summarizing the existing storm water infrastructure in the area surrounding Phase II of Wyoming Classical Academy. It is our understanding that Phase II of Wyoming Classical Academy will include the development of a middle school/high school building located west of the existing building, in addition to street and parking infrastructure and sports fields.

Existing Conditions

Drainage from the existing Wyoming Classical Academy site is directed northward across the site towards the swale flowing westward along the southern side of Poison Spider Lane. This swale flows into a detention pond located near the northwest corner of the property, with a 36" HDPE outlet flowing westward beneath the pickup loop. This pipe has been installed at a 2.88% slope, giving this pipe a capacity of 122.6 cfs. This pipe has been installed westward beneath the driveway of 6521 Poison Spider Lane, where it outfalls into a portion of triangular ditch section with a top width of 24 feet, and a 3.5 foot flow depth, with 3.5:1 side slopes. This portion of ditch is at approximately a 2.00% giving it a capacity of 433.1 cfs. Farther west this ditch is diverted back into another 36" culvert beneath the driveway of 6563 Poison Spider Lane. This culvert is installed at 1.95%, giving it a similar capacity to the previously mentioned culvert to the east. Due to the large capacity of the ditch along this portion of Poison Spider Lane, storm water runoff capacities will be governed by pipe flows.

The stormwater runoff for the Ridge West subdivision, located south of the school property, has been directed through a drainage easement located on the western edge of the school's property and into a detention pond. This detention pond has a capacity of 63,392 cubic feet, of which 57,112 cubic feet are required in order to detain the 100-year storm event for the Ridge West subdivision. This detention pond has a 24" HDPE outlet pipe installed at 1.00% that will take storm water runoff from the detention pond northward along western edge of the school's property where it will tee into the 36" pipe discussed previously.

Drainage and storm plans for both Phase I of Wyoming Classical Academy, and relevant portions of the Ridge West Subdivision have been attached to this report.

Proposed Development

The detention pond located along Poison Spider Lane has a capacity of 12,000 cubic feet, with 11,263 cubic feet being utilized for Phase I of Wyoming Classical Academy, giving an available capacity of 737 cubic feet. The 100-year storm event will produce a peak runoff flow of 97.4 cfs at this location of the Poison Spider Lane swale.

The detention pond located along the western edge of the property has a capacity of 63,392 cubic feet, with 57,112 cubic feet being utilized for the Ridge West subdivision, giving an available capacity of 6,280 cubic feet. In total, there are 7,017 cubic feet of available detention on the site given current development and current stormwater infrastructure configuration. Storm water detention will need to be constructed an provided for any excess storm water runoff calculated to exceed this figure.

ECS Engineers has put together drainage calculations for Phase II of the Wyoming Classical Academy development. These calculations consisted of looking at a single catchment area that encompassed the phase II development, and was approximately 6.57 acres in size. This catchment has a time of concentration of 7.6 minutes, a pre-development curve number of 75.6 and a post-development curve number of 86.8. Curve numbers were calculated based on existing and proposed surfacing across the catchment area. Hydrographs were created for both the 10-year storm event and 100-year storm event, for both pre-development and post-development conditions. Detaining the difference in the 10-year and 100-year storm events results in a required detention for Phase II of development of 6,675 cubic feet.

ENGINEERS

Although 7,017 cubic feet of detention is available between the two detention ponds on the site, routing of stormwater runoff to the detention pond on the western edge of the property may be difficult given the infrastructure proposed as part of this phase of development. Therefore, ECS Engineers recommends utilizing the 737 cubic feet available in the Poison Spider Lane detention pond, and providing an additional 5,938 cubic feet of detention on site for Phase II of Wyoming Classical Academy.

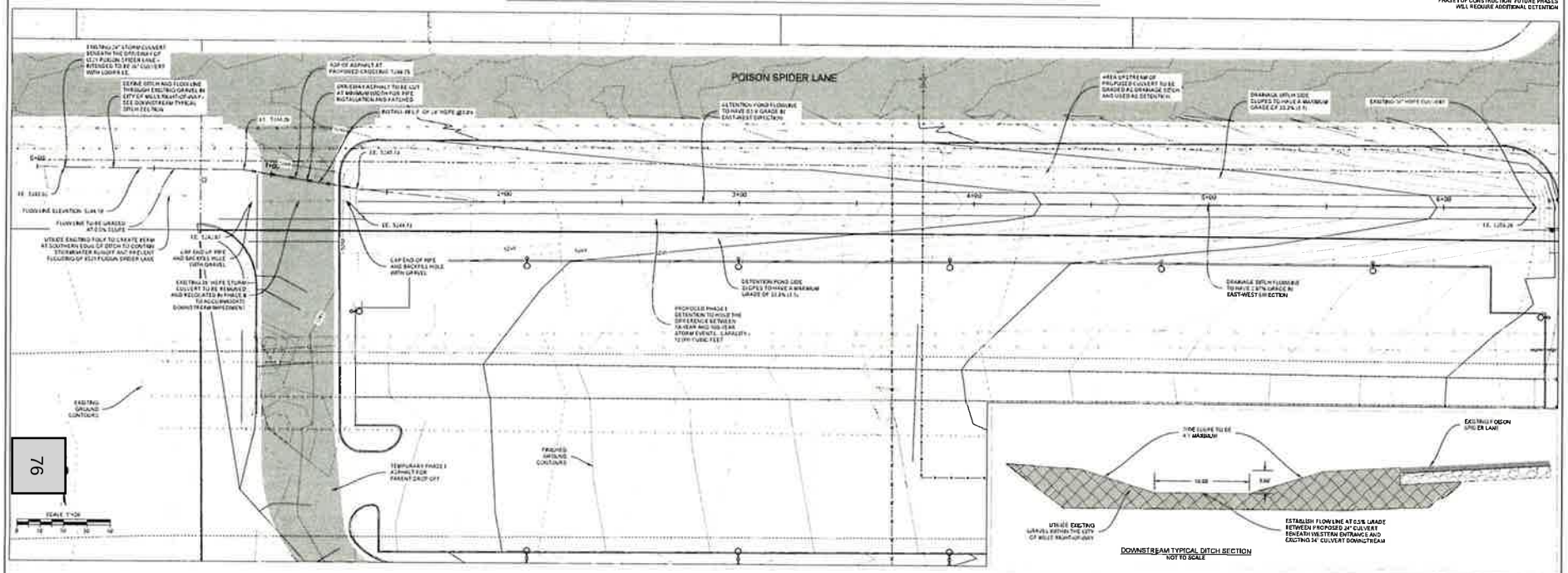
Shawn Gustafson, PE

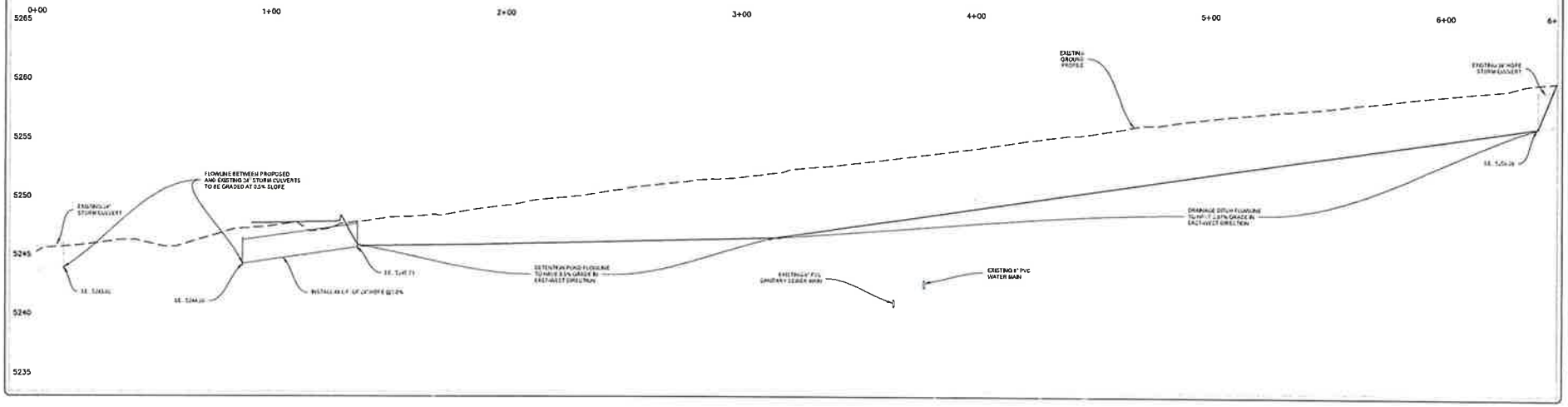


Principal Engineer

TEMPORARY DRAINAGE SOLUTION FOR DOWNSTREAM OBSTRUCTION FOR

WYOMING CLASSICAL ACADEMY





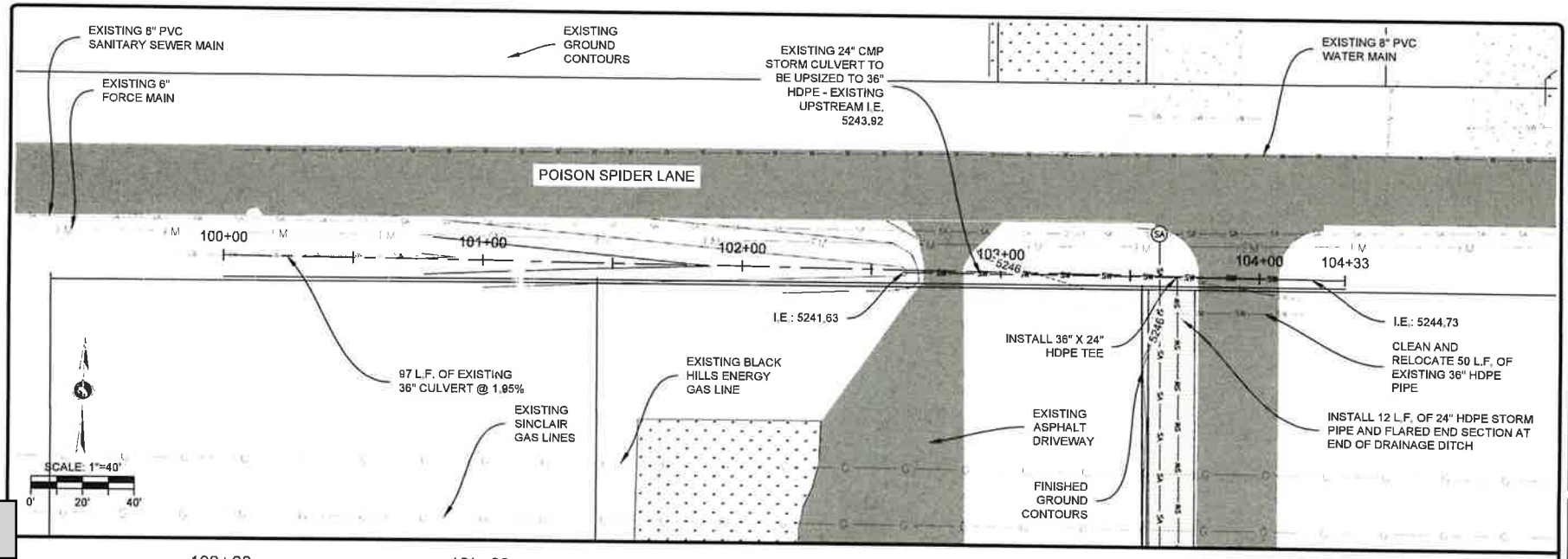
76

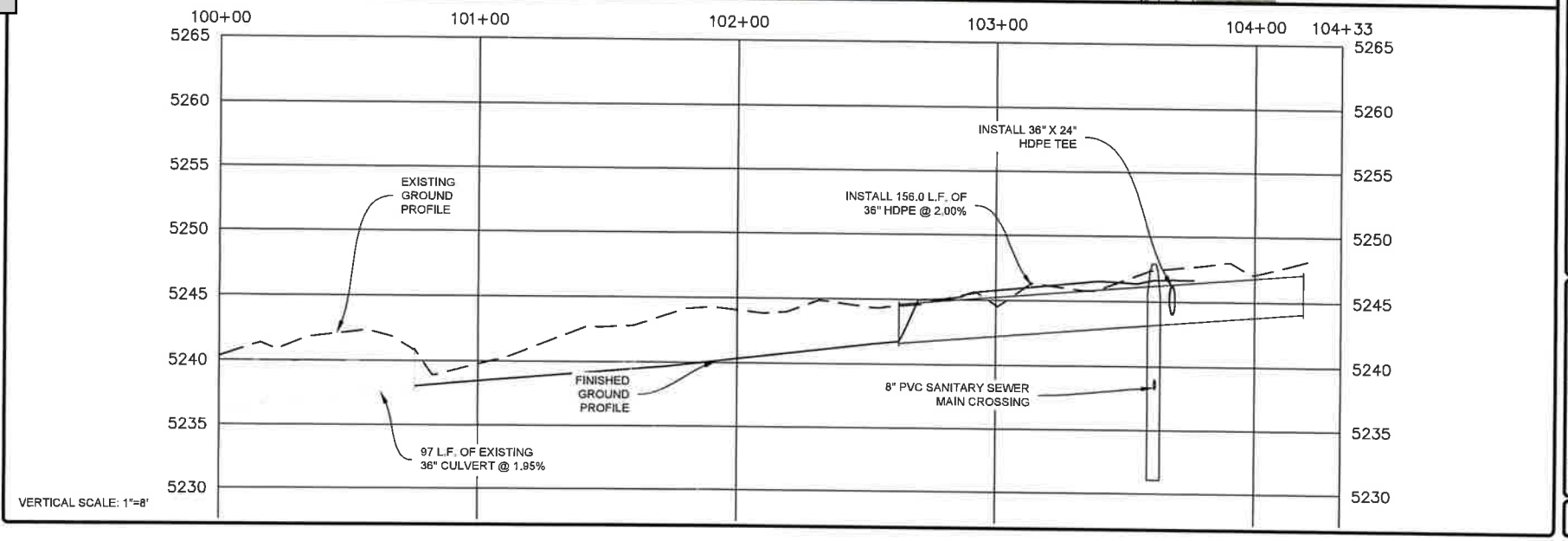
ENGINEERS

WYOMING CLASSICAL ACADEMY
PHASE I WEST DRAINAGE EXHIBIT
TEMPORARY PHASE I SOLUTION

C9.1

Item # 4.





ENGINEERS

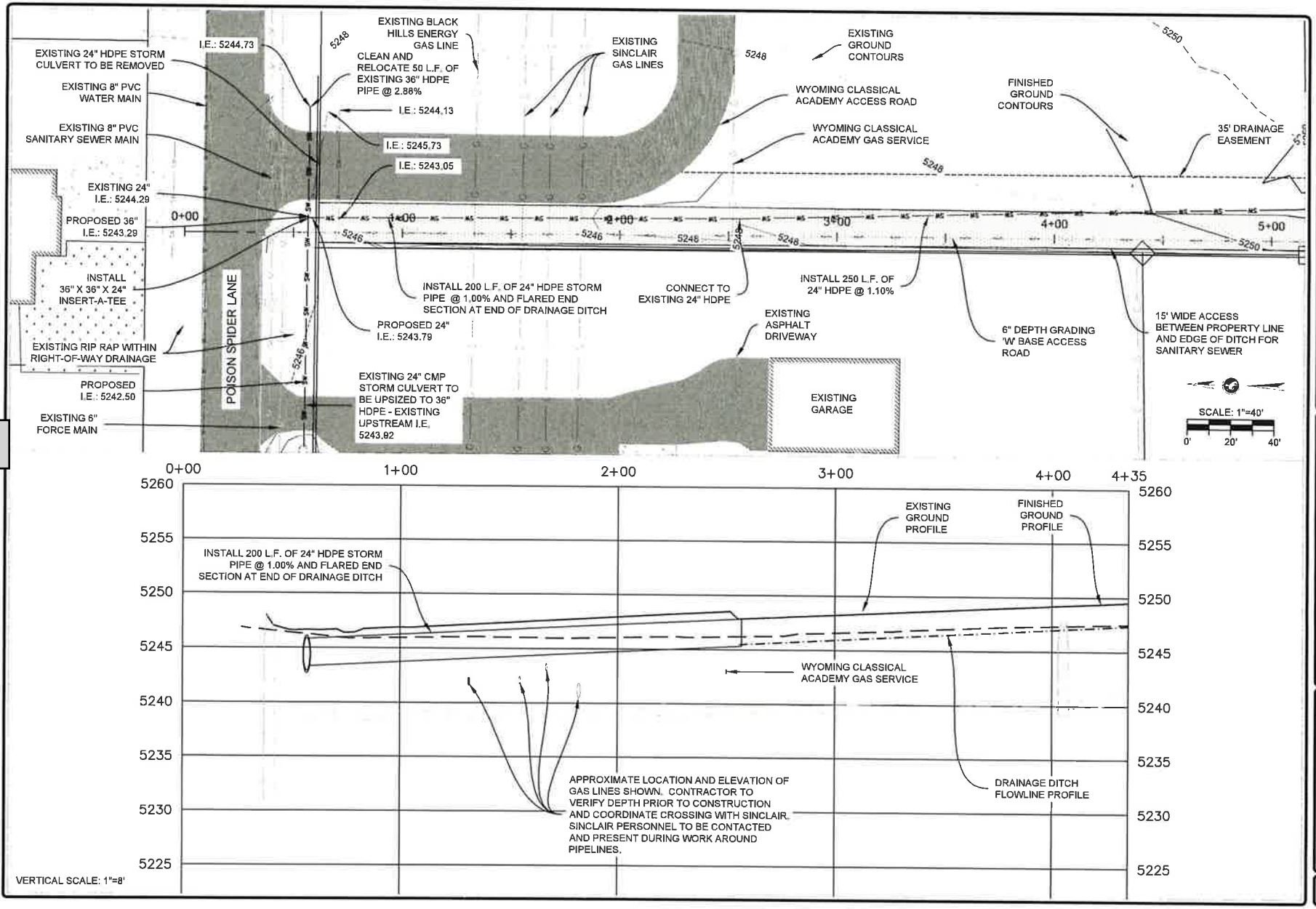
POISON SPIDER DRAINAGE

RIDGE WEST SUBDIVISION
CITY OF MILLS, WY

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Item # 4.



ENGINEERS

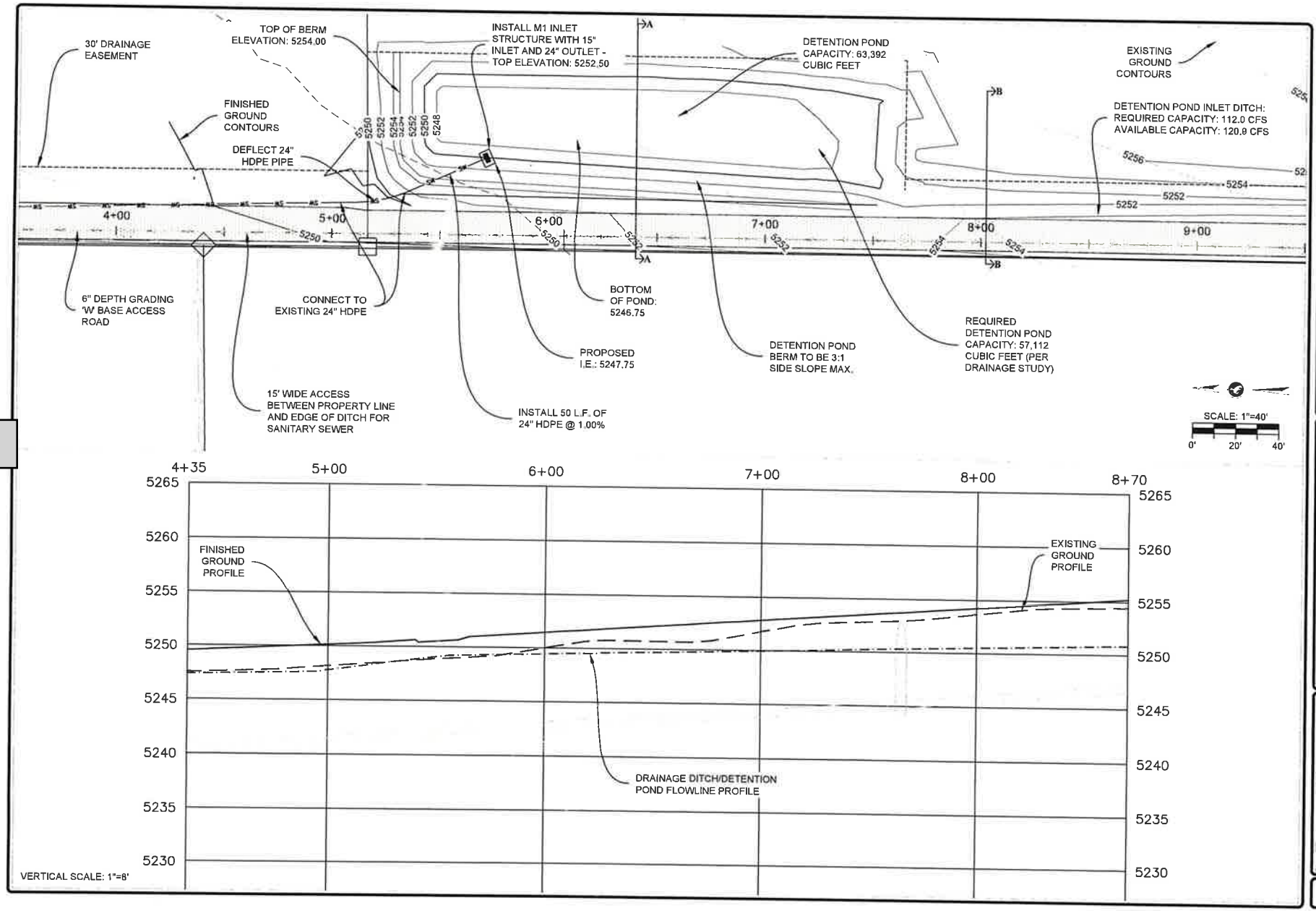
DRAINAGE PLAN & PROFILE
STA. 0+00 TO 4+35

RIDGE WEST SUBDIVISION
CITY OF MILLS, WY

37

78

Item # 4.



ENGINEERS

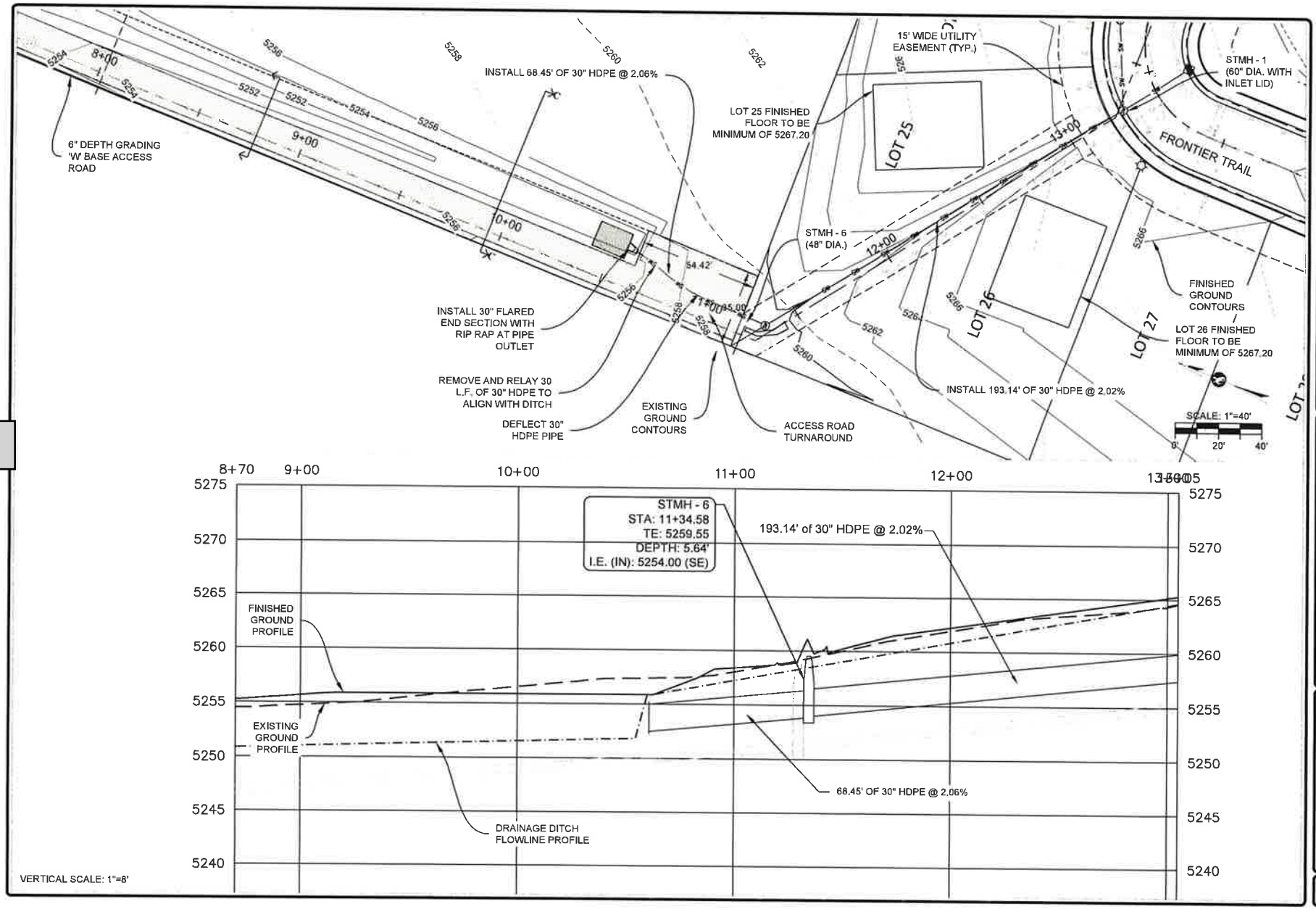
DRAINAGE PLAN & PROFILE
STA. 4+35 TO 8+70

RIDGE WEST SUBDIVISION
CITY OF MILLS, WY

38

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Item # 4.



ENGINEERS

STORM SEWER PLAN & PROFILE
STA. 8+70 TO 13+05

RIDGE WEST SUBDIVISION
CITY OF MILLS, WY

39

80

Item # 4.

ENGINEERS

CATCHMENT EXHIBIT

WCA PHASE II
MILLS, WY

SCS Shallow Concentrated Flow
L=1,054 FT
S=45.95:1

Catchment - 1
AREA: 6.57 Acre
C: 0.50
TOC: 8 MIN.

Hydrology Report

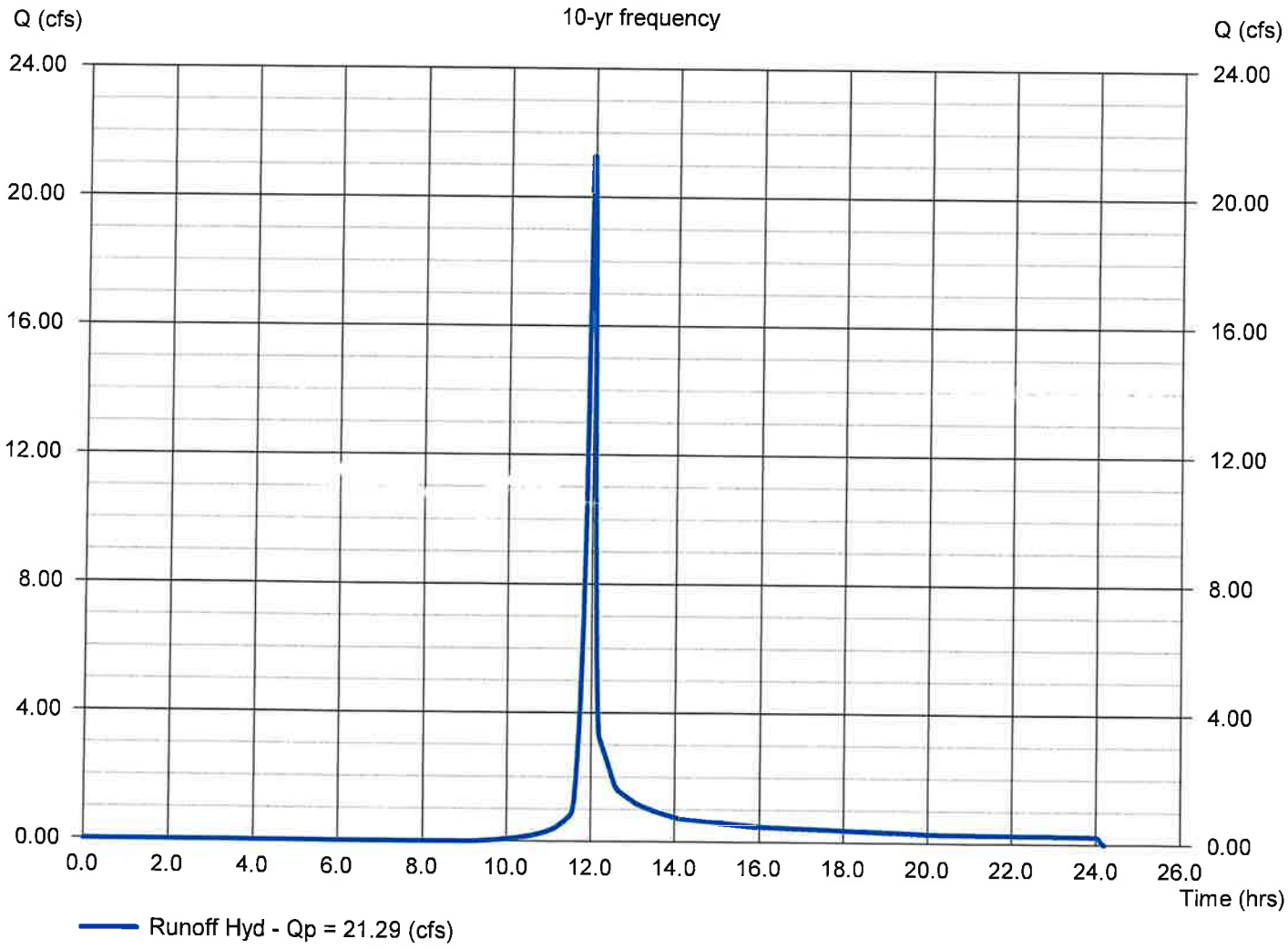
Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Friday, Oct 23 2026

WCA Phase II - 10-Year Pre-Development

Hydrograph type	= SCS	Peak discharge (cfs)	= 21.29
Storm frequency (yrs)	= 10	Time interval (min)	= 1
Drainage area (ac)	= 6.570	Curve number (CN)	= 76
Basin Slope (%)	= n/a	Hydraulic length (ft)	= n/a
Tc method	= User	Time of conc. (min)	= 8
Total precip. (in)	= 4.25	Storm Distribution	= Type II
Storm duration (hrs)	= 24	Shape factor	= 484

Hydrograph Volume = 44,928 (cuft); 1.031 (acft)

Runoff Hydrograph



Hydrology Report

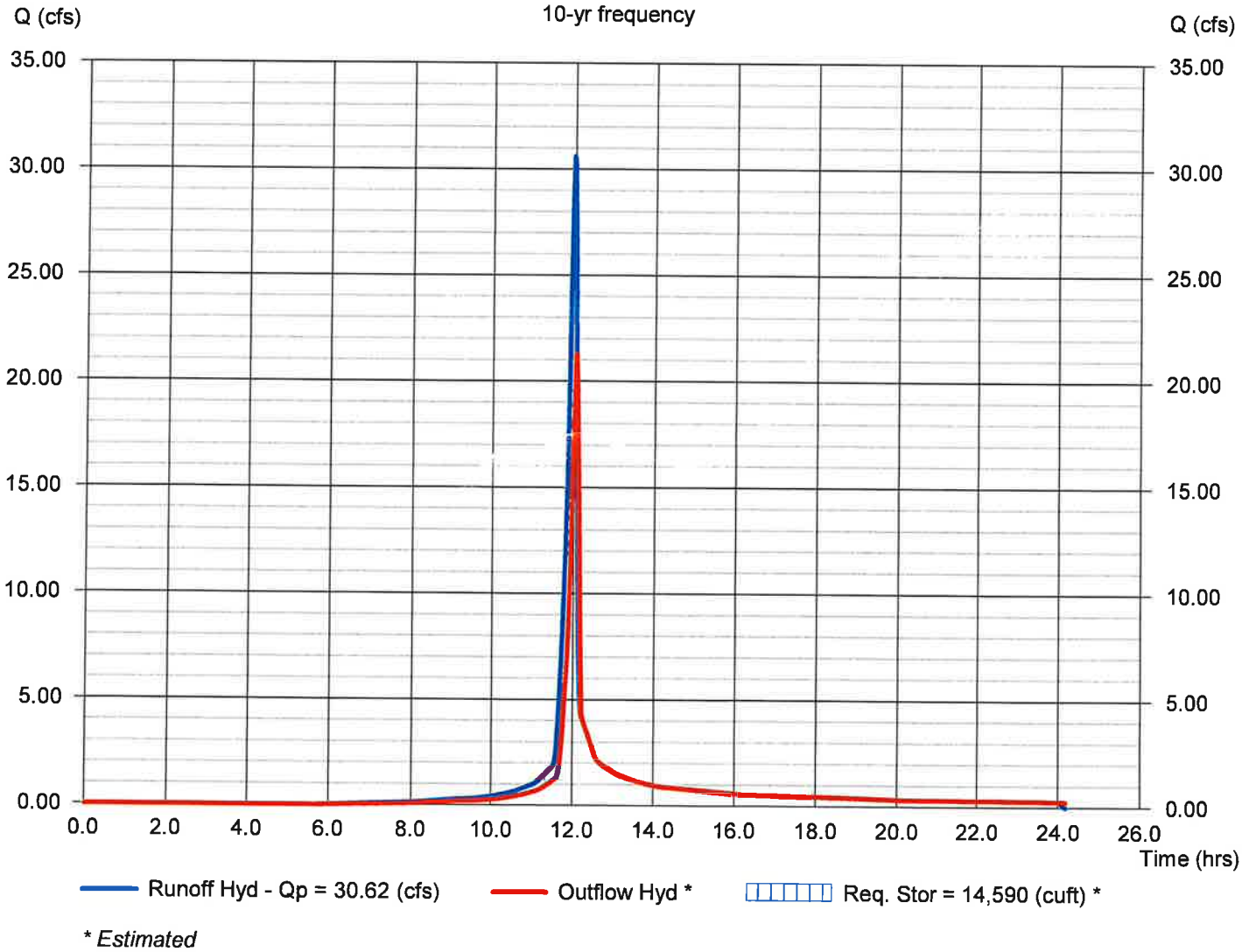
Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Friday, Oct 23 2026

WCA Phase II - 10-Year Post-Development

Hydrograph type	= SCS	Peak discharge (cfs)	= 30.62
Storm frequency (yrs)	= 10	Time interval (min)	= 1
Drainage area (ac)	= 6.570	Curve number (CN)	= 87
Basin Slope (%)	= n/a	Hydraulic length (ft)	= n/a
Tc method	= User	Time of conc. (min)	= 8
Total precip. (in)	= 4.25	Storm Distribution	= Type II
Storm duration (hrs)	= 24	Shape factor	= 484

Hydrograph Volume = 66,664 (cuft); 1.530 (acft)

Runoff Hydrograph



* *Estimated*

Hydrology Report

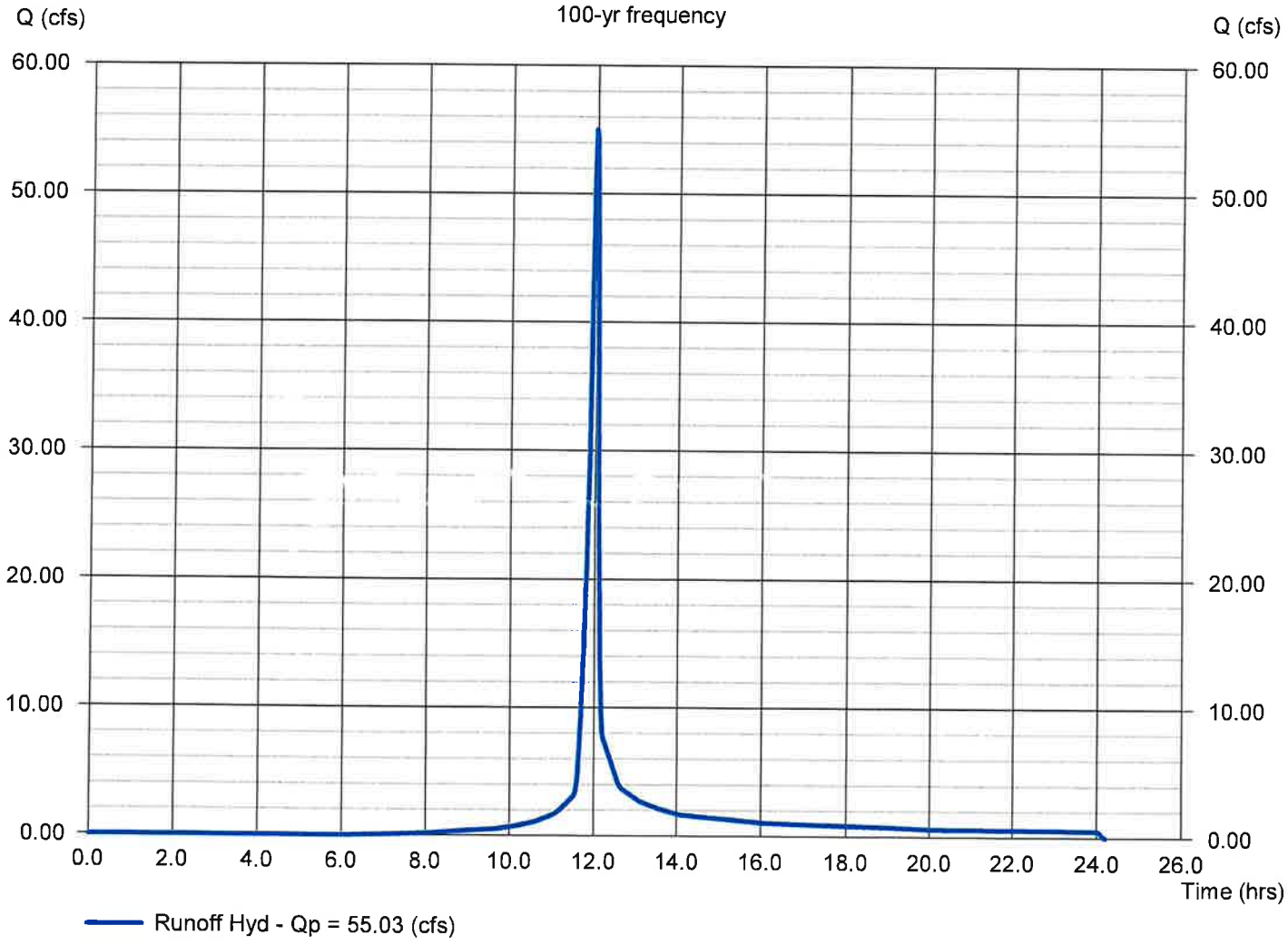
Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Friday, Oct 23 2026

WCA Phase II - 100-Year Pre-Development

Hydrograph type	= SCS	Peak discharge (cfs)	= 55.03
Storm frequency (yrs)	= 100	Time interval (min)	= 1
Drainage area (ac)	= 6.570	Curve number (CN)	= 76
Basin Slope (%)	= n/a	Hydraulic length (ft)	= n/a
Tc method	= User	Time of conc. (min)	= 8
Total precip. (in)	= 7.95	Storm Distribution	= Type II
Storm duration (hrs)	= 24	Shape factor	= 484

Hydrograph Volume = 118,878 (cuft); 2.729 (acft)

Runoff Hydrograph



Hydrology Report

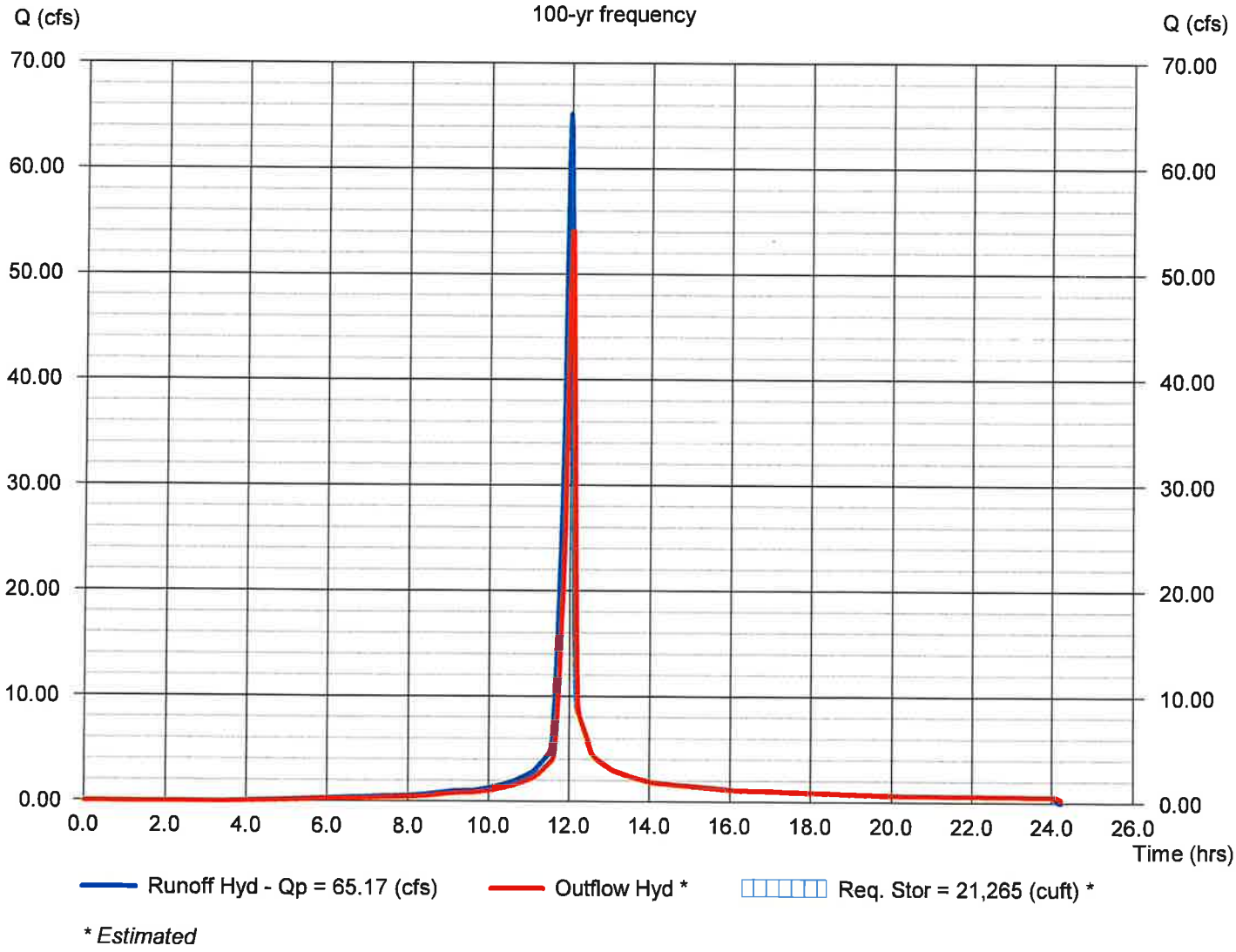
Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Friday, Oct 23 2026

WCA Phase II - 100-Year Post-Development

Hydrograph type	= SCS	Peak discharge (cfs)	= 65.17
Storm frequency (yrs)	= 100	Time interval (min)	= 1
Drainage area (ac)	= 6.570	Curve number (CN)	= 87
Basin Slope (%)	= n/a	Hydraulic length (ft)	= n/a
Tc method	= User	Time of conc. (min)	= 8
Total precip. (in)	= 7.95	Storm Distribution	= Type II
Storm duration (hrs)	= 24	Shape factor	= 484

Hydrograph Volume = 148,843 (cuft); 3.417 (acft)

Runoff Hydrograph



* *Estimated*



D-Series Size 1
LED Area Luminaire

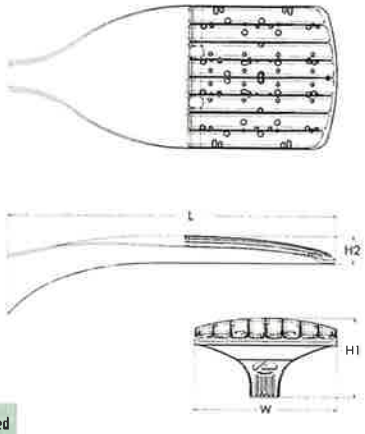
Catalog Number

Notes

Type

Specifications

EPA:	0.69 ft² (0.06 m²)
Length:	32.71" (83.1 cm)
Width:	14.26" (36.2 cm)
Height H1:	7.88" (20.0 cm)
Height H2:	2.73" (6.9 cm)
Weight:	34 lbs (15.4 kg)



Design Select options indicated by this color background.

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED

Series	LEDs	Color temperature[2]	Color Rendering Index[2]	Distribution	Voltage	Mounting
DSX1 LED	**Forward optics** P1 P6 P2 P7 P3 P8 P4 P9 P5 **Rotated optics** P10[1] P12[1] P11[1] P13[1]	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare[3] T4M Type IV medium T4LG Type IV low glare[3] TFTM Forward throw medium T5M Type V medium T5LG Type V low glare T5W Type V wide BLC3 Type III backlight control[3] BLC4 Type IV backlight control[3] LCCO Left corner cutoff[3] RCCO Right corner cutoff[3]	MVOLT (120V-277V)[4] HVOLT (347V-480V)[5,6] XVOLT (277V - 480V)[7,8] 120[16,25] 208[16,26] 240[16,26] 277[16,26] 347[16,26] 480[16,26]	**Shipped included** SPA Square pole mounting (#8 drilling) RPA Round pole mounting (#8 drilling) SPA5 Square pole mounting #5 drilling[9] RPA5 Round pole mounting #5 drilling[9] SPA8N Square narrow pole mounting #8 drilling WBA Wall bracket[10] MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options				Other options		Finish *(required)*	
Shipped installed				**Shipped installed**			
NLTAIR2 PIRHN	nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc.[11,12,20,21]	PER7	Seven-pin receptacle only (controls ordered separate)[14,21]	SPD20KV	20KV surge protection	DDBXD	Dark Bronze
PIR	High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc.[13,20,21]	FAO	Field adjustable output[15,21]	HS	Houseside shield (black finish standard)[22]	DBLXD	Black
PER	NEMA twist-lock receptacle only (controls ordered separate)[14]	BL30	Bi-level switched dimming, 30%[16,21]	L90	Left rotated optics[1]	DNAXD	Natural Aluminum
PER5	Five-pin receptacle only (controls ordered separate)[16,21]	BL50	Bi-level switched dimming, 50%[16,21]	R90	Right rotated optics[1]	DWHXD	White
		DMG	0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)[17]	CCE	Coastal Construction[23]	DDBTXD	Textured dark bronze
		DS	Dual switching[18,19,21]	HA	50°C ambient operation[24]	DBLBXD	Textured black
				BAA	Buy America(n) Act and/or Build America Buy America Qualified	DNATXD	Textured natural aluminum
				SF	Single fuse (120, 277, 347V)[26]	DWHGXD	Textured white
				DF	Double fuse (208, 240, 480V)[26]		
				Shipped separately			
				EGSR	External Glare Shield (reversible, field install required, matches housing finish)		
				BSDB	Bird Spikes (field install required)		

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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	Shorting cap [25]
DSX1HS P#	House-side shield (enter package number 1-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSXRPA5 (FINISH)	Round pole adapter #5 drilling (specify finish)
DSX1EGSR (FINISH)	External glare shield (specify finish)
DSX1BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

NOTES

1 Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
2 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
3 T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5 HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
6 HVOLT not available with package P1 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
7 XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
8 XVOLT not available in packages P1 or P10. XVOLT not available with P1 ,P2, P5, P7, P9, P10, P11 and P13 when combined with option NLTAIR2 PIRHN or PIR. XVOLT not available with fusing (SF or DF).
9 SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
10 WBA cannot be combined with Type 5 distributions plus photocell (PER).
11 NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIR2 visit this link
12 NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P1 and P10 using HVOLT.
13 PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO BL30, BL50, DMG and DS.
14 PER/PER5/PER7 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
15 FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, DMG and DS.
16 BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO, DMG and DS. BL30 or BL50 must specify 120 or 277V.
17 DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.
18 DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.
19 DS requires (2) separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads using (2) drivers. DS only available with packages P8, P9, P10, P11, P12 and P13.
20 Reference Motion Sensor Default Settings table on page 4 to see functionality.
21 Reference Controls Options table on page 4.
22 HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
23 CCE option not available with option BS and EGSR. Contact Technical Support for availability.
24 Option HA not available with performance packages P4, P5, P7, P8, P9 and P13.
25 Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
26 Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories



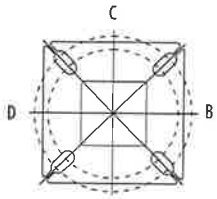
External Glare Shield (EGSR)



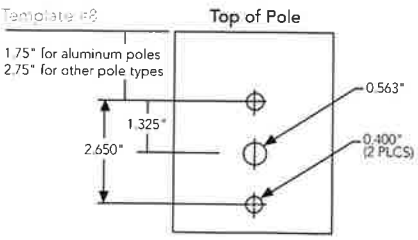
House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION



Handhole



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
		Minimum Acceptable Outside Pole Dimension					
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

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 Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 with SPA	0.69	1.38	1.23	1.54	---	1.58
DSX1 with SPA5, SPA8N	0.70	1.40	1.30	1.66	---	1.68
DSX1 with RPA, RPA5	0.70	1.40	1.30	1.66	1.60	1.68
DSX1 with MA	0.83	1.66	1.50	2.09	2.09	2.09

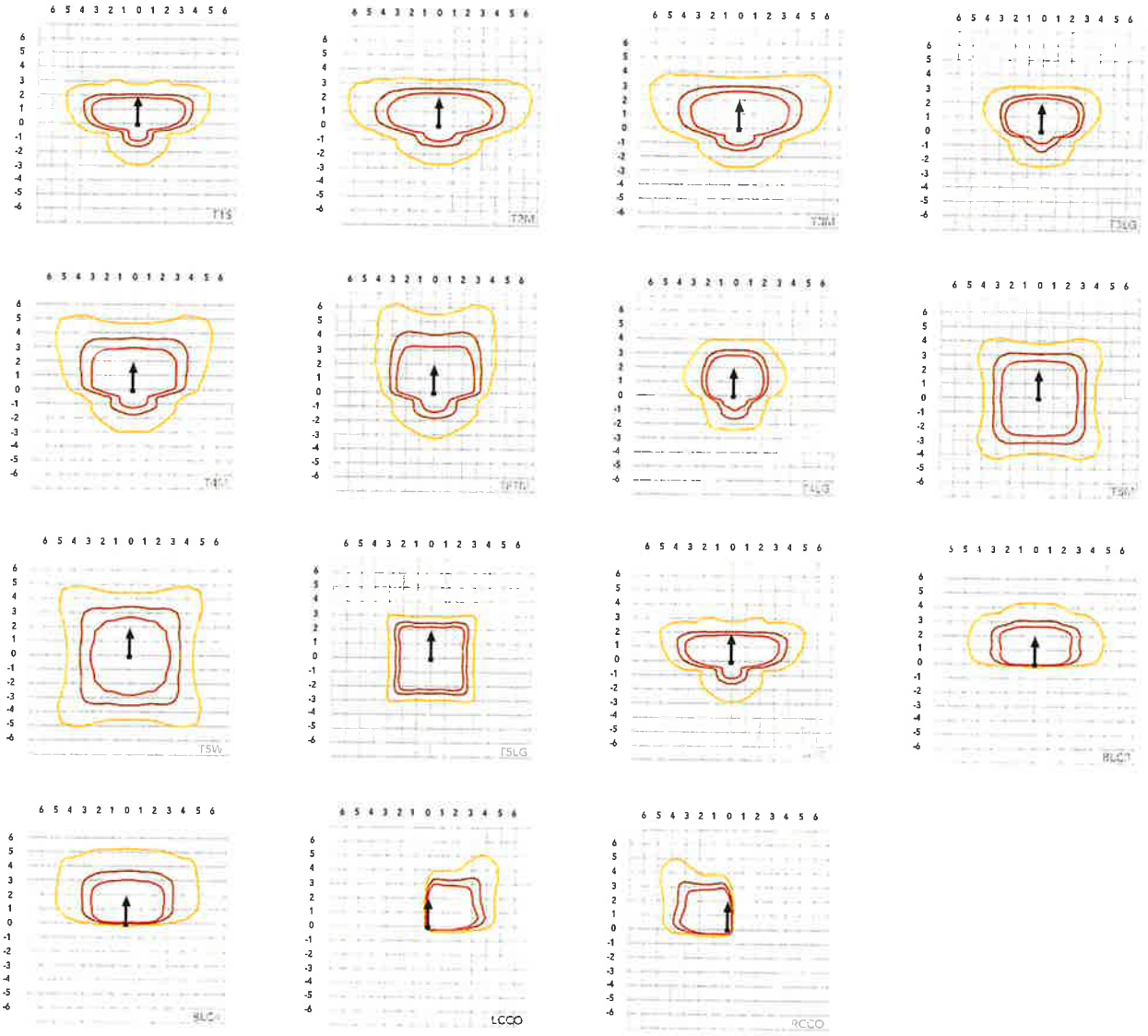
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Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's homepage.

Isofootcandle plots for the DSX1 LED P9 40K 70CRI. Distances are in units of mounting height (25').

LEGEND
- 0.1 fc
- 0.5 fc
- 1.0 fc



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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	1.04
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°C**	**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	0.95
50,000	0.90
100,000	0.81

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use maximum published values by package listed on specification sheet (input watts and lumens by optic type).

Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A) 120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P2	30	700	68	0.56	0.33	0.28	0.24	0.20	0.14
	P3	30	1050	104	0.85	0.49	0.43	0.37	0.29	0.21
	P4	30	1250	125	1.03	0.60	0.52	0.45	0.36	0.26
	P5	30	1400	142	1.15	0.66	0.58	0.50	0.40	0.29
	P6	40	1250	167	1.38	0.79	0.69	0.60	0.48	0.34
	P7	40	1400	188	1.54	0.89	0.77	0.67	0.53	0.38
	P8	60	1100	216	1.80	1.04	0.90	0.78	0.62	0.45
	P9	60	1400	279	2.31	1.33	1.15	1.00	0.80	0.58
Rotated Optics (Requires L90 or R90)	P10	60	530	101	0.84	0.49	0.42	0.37	0.29	0.21
	P11	60	700	135	1.12	0.65	0.56	0.49	0.39	0.28
	P12	60	1050	206	1.72	0.99	0.86	0.74	0.59	0.43
	P13	60	1400	279	2.30	1.33	1.15	1.00	0.79	0.57

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Phototcell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

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 (not available on DSX0)	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 receptacle	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. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
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 rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

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Performance Data

Lumen Output

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Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	51W	30	530	T1S	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
				T2M	7,203	1	0	3	142	7,507	2	0	3	147	7,653	2	0	3	150
				T3M	7,287	1	0	3	143	7,594	1	0	3	149	7,742	1	0	3	152
				T3LG	6,509	1	0	1	128	6,783	1	0	1	133	6,916	1	0	1	136
				T4M	7,395	1	0	3	145	7,707	1	0	3	151	7,857	1	0	3	154
				T4LG	6,726	1	0	1	132	7,010	1	0	1	138	7,146	1	0	1	140
				TFTM	7,446	1	0	3	146	7,760	1	0	3	152	7,912	1	0	3	155
				T5M	7,609	3	0	2	149	7,930	3	0	2	156	8,084	3	0	2	159
				T5W	7,732	3	0	2	152	8,058	4	0	2	158	8,215	4	0	2	161
				T5LG	7,631	3	0	1	150	7,953	3	0	1	156	8,108	3	0	1	159
				BLC3	5,300	0	0	2	104	5,524	0	0	2	109	5,631	0	0	2	111
				BLC4	5,474	0	0	3	108	5,705	0	0	3	112	5,816	0	0	3	114
				RCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				LCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				AFR	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
P2	68W	30	700	T1S	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
				T2M	9,260	2	0	3	137	9,651	2	0	3	142	9,839	2	0	3	145
				T3M	9,368	2	0	3	138	9,763	2	0	3	144	9,953	2	0	3	147
				T3LG	8,368	1	0	2	123	8,721	1	0	2	129	8,891	1	0	2	131
				T4M	9,507	2	0	3	140	9,909	2	0	3	146	10,102	2	0	3	149
				T4LG	8,647	1	0	2	128	9,012	1	0	2	133	9,187	1	0	2	136
				TFTM	9,573	2	0	3	141	9,977	2	0	3	147	10,172	2	0	3	150
				T5M	9,782	4	0	2	144	10,195	4	0	2	150	10,393	4	0	2	153
				T5W	9,940	4	0	2	147	10,360	4	0	2	153	10,562	4	0	2	156
				T5LG	9,810	3	0	1	145	10,224	3	0	1	151	10,423	3	0	1	154
				BLC3	6,814	0	0	2	101	7,101	0	0	2	105	7,240	0	0	2	107
				BLC4	7,038	0	0	3	104	7,334	0	0	3	108	7,477	0	0	3	110
				RCCO	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	108
				LCCO	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	108
				AFR	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
P3	102W	30	1050	T1S	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147
				T2M	13,055	2	0	3	128	13,605	2	0	3	133	13,871	2	0	3	136
				T3M	13,206	2	0	4	129	13,763	2	0	4	135	14,031	2	0	4	137
				T3LG	11,797	2	0	2	115	12,294	2	0	2	120	12,534	2	0	2	123
				T4M	13,403	2	0	4	131	13,968	2	0	4	137	14,241	2	0	4	139
				T4LG	12,190	2	0	2	119	12,704	2	0	2	124	12,952	2	0	2	127
				TFTM	13,496	2	0	4	132	14,065	2	0	4	138	14,339	2	0	4	140
				T5M	13,790	4	0	2	135	14,371	4	0	2	141	14,652	4	0	2	143
				T5W	14,013	4	0	3	137	14,605	4	0	3	143	14,889	4	0	3	146
				T5LG	13,830	3	0	2	135	14,413	3	0	2	141	14,694	3	0	2	144
				BLC3	9,606	0	0	2	94	10,011	0	0	2	98	10,206	0	0	2	100
				BLC4	9,921	0	0	3	97	10,340	0	0	3	101	10,541	0	0	3	103
				RCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				LCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				AFR	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147

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Performance Data

Lumen Output

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Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P4	124W	30	1250	T1S	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141
				T2M	15,207	3	0	4	123	15,849	3	0	4	128	16,158	3	0	4	130
				T3M	15,383	2	0	4	124	16,032	2	0	4	129	16,345	2	0	4	132
				T3LG	13,742	2	0	2	111	14,321	2	0	2	116	14,600	2	0	2	118
				T4M	15,613	2	0	4	126	16,272	2	0	4	131	16,589	2	0	4	134
				T4LG	14,200	2	0	2	115	14,799	2	0	2	119	15,087	2	0	2	122
				TFTM	15,721	2	0	4	127	16,384	2	0	4	132	16,703	2	0	4	135
				T5M	16,063	4	0	2	130	16,741	4	0	2	135	17,067	4	0	2	138
				T5W	16,324	5	0	3	132	17,013	5	0	3	137	17,344	5	0	3	140
				T5LG	16,110	3	0	2	130	16,790	4	0	2	135	17,117	4	0	2	138
				BLC3	11,190	0	0	3	90	11,662	0	0	3	94	11,889	0	0	3	96
				BLC4	11,557	0	0	3	93	12,044	0	0	3	97	12,279	0	0	4	99
				RCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97
				LCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97
				AFR	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141
P5	138W	30	1400	T1S	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139
				T2M	16,723	3	0	4	121	17,428	3	0	4	126	17,768	3	0	4	129
				T3M	16,917	3	0	4	122	17,630	3	0	4	128	17,974	3	0	4	130
				T3LG	15,111	2	0	2	109	15,749	2	0	2	114	16,055	2	0	2	116
				T4M	17,169	3	0	5	124	17,893	3	0	5	130	18,242	3	0	5	132
				T4LG	15,615	2	0	2	113	16,274	2	0	2	118	16,591	2	0	2	120
				TFTM	17,288	2	0	4	125	18,017	2	0	5	130	18,368	3	0	5	133
				T5M	17,664	5	0	3	128	18,410	5	0	3	133	18,768	5	0	3	136
				T5W	17,951	5	0	3	130	18,708	5	0	3	135	19,073	5	0	3	138
				T5LG	17,716	4	0	2	128	18,463	4	0	2	134	18,823	4	0	2	136
				BLC3	12,305	0	0	3	89	12,824	0	0	3	93	13,074	0	0	3	95
				BLC4	12,709	0	0	4	92	13,245	0	0	4	96	13,503	0	0	4	98
				RCCO	12,416	1	0	3	90	12,940	1	0	3	94	13,192	1	0	3	95
				LCCO	12,416	1	0	3	90	12,940	1	0	3	94	13,192	1	0	3	95
				AFR	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139
P6	165W	40	1250	T1S	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135
				T2M	19,482	3	0	4	118	20,303	3	0	4	123	20,699	3	0	4	125
				T3M	19,708	3	0	5	119	20,539	3	0	5	124	20,939	3	0	5	127
				T3LG	17,604	2	0	2	107	18,347	2	0	2	111	18,704	2	0	2	113
				T4M	20,001	3	0	5	121	20,845	3	0	5	126	21,251	3	0	5	129
				T4LG	18,191	2	0	2	110	18,959	2	0	2	115	19,328	2	0	2	117
				TFTM	20,140	3	0	5	122	20,989	3	0	5	127	21,398	3	0	5	129
				T5M	20,579	5	0	3	125	21,447	5	0	3	130	21,865	5	0	3	132
				T5W	20,912	5	0	3	127	21,795	5	0	3	132	22,219	5	0	3	134
				T5LG	20,638	4	0	2	125	21,509	4	0	2	130	21,928	4	0	2	133
				BLC3	14,335	0	0	3	87	14,940	0	0	3	90	15,231	0	0	3	92
				BLC4	14,805	0	0	4	90	15,430	0	0	4	93	15,731	0	0	4	95
				RCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93
				LCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93
				AFR	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135

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Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P7	184W	40	1400	T1S	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
				T2M	21,066	3	0	4	114	21,955	3	0	4	119	22,383	3	0	4	121
				T3M	21,311	3	0	5	116	22,210	3	0	5	120	22,642	3	0	5	123
				T3LG	19,036	2	0	2	103	19,839	2	0	3	108	20,226	2	0	3	110
				T4M	21,628	3	0	5	117	22,541	3	0	5	122	22,980	3	0	5	125
				T4LG	19,671	2	0	2	107	20,501	2	0	3	111	20,900	2	0	3	113
				TFTM	21,778	3	0	5	118	22,697	3	0	5	123	23,139	3	0	5	125
				T5M	22,252	5	0	3	121	23,191	5	0	3	126	23,643	5	0	3	128
				T5W	22,613	5	0	3	123	23,567	5	0	4	128	24,027	5	0	4	130
				T5LG	22,317	4	0	2	121	23,258	4	0	2	126	23,712	4	0	2	129
				BLC3	15,501	0	0	3	84	16,155	0	0	4	88	16,470	0	0	4	89
				BLC4	16,010	0	0	4	87	16,685	0	0	4	90	17,010	0	0	4	92
				RCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				LCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				AFR	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
P8	216W	60	1100	T1S	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
				T2M	26,587	3	0	5	123	27,709	3	0	5	128	28,249	3	0	5	131
				T3M	26,895	3	0	5	125	28,030	3	0	5	130	28,576	3	0	5	132
				T3LG	24,025	3	0	3	111	25,038	3	0	3	116	25,526	3	0	3	118
				T4M	27,296	3	0	5	127	28,448	3	0	5	132	29,002	3	0	5	134
				T4LG	24,826	3	0	3	115	25,873	3	0	3	120	26,378	3	0	3	122
				TFTM	27,485	3	0	5	127	28,645	3	0	5	133	29,203	3	0	5	135
				T5M	28,084	5	0	4	130	29,269	5	0	4	136	29,839	5	0	4	138
				T5W	28,539	5	0	4	132	29,743	5	0	4	138	30,323	5	0	4	141
				T5LG	28,165	4	0	2	131	29,354	4	0	2	136	29,926	4	0	2	139
				BLC3	19,563	0	0	4	91	20,388	0	0	4	94	20,786	0	0	4	96
				BLC4	20,205	0	0	5	94	21,057	0	0	5	98	21,468	0	0	5	99
				RCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				LCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				AFR	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
P9	277W	60	1400	T1S	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134
				T2M	32,255	3	0	5	116	33,616	3	0	5	121	34,271	3	0	5	124
				T3M	32,629	3	0	5	118	34,006	3	0	5	123	34,668	3	0	5	125
				T3LG	29,146	3	0	3	105	30,376	3	0	4	110	30,968	3	0	4	112
				T4M	33,116	3	0	5	120	34,513	3	0	5	125	35,185	3	0	5	127
				T4LG	30,119	3	0	3	109	31,389	3	0	4	113	32,001	3	0	4	116
				TFTM	33,345	3	0	5	120	34,751	3	0	5	125	35,429	3	0	5	128
				T5M	34,071	5	0	4	123	35,509	5	0	4	128	36,201	5	0	4	131
				T5W	34,624	5	0	4	125	36,084	5	0	4	130	36,788	5	0	4	133
				T5LG	34,170	5	0	3	123	35,612	5	0	3	129	36,306	5	0	3	131
				BLC3	23,734	0	0	4	86	24,735	0	0	4	89	25,217	0	0	4	91
				BLC4	24,513	0	0	5	88	25,547	0	0	5	92	26,045	0	0	5	94
				RCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				LCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				AFR	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134

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Performance Data

Lumen Output

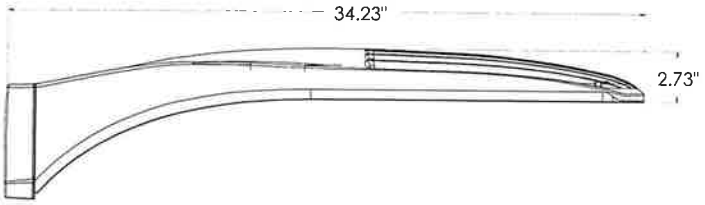
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

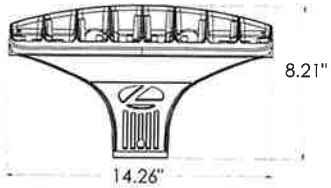
Rotated Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	101W	60	530	T1S	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159
				T2M	14,047	4	0	4	139	14,640	4	0	4	145	14,925	4	0	4	147
				T3M	14,208	4	0	4	140	14,807	4	0	4	146	15,096	4	0	4	149
				T3LG	12,693	3	0	3	125	13,229	3	0	3	131	13,487	3	0	3	133
				T4M	14,420	4	0	4	142	15,028	4	0	4	148	15,321	4	0	4	151
				T4LG	13,115	3	0	3	129	13,668	3	0	3	135	13,934	3	0	3	138
				TFTM	14,522	4	0	4	143	15,134	4	0	4	149	15,429	4	0	4	152
				T5M	14,836	4	0	2	146	15,462	4	0	2	153	15,763	4	0	2	156
				T5W	15,076	4	0	3	149	15,712	5	0	3	155	16,019	5	0	3	158
				T5LG	14,879	3	0	2	147	15,507	3	0	2	153	15,809	3	0	2	156
				BLC3	10,335	3	0	3	102	10,771	4	0	4	106	10,981	4	0	4	108
				BLC4	10,674	4	0	4	105	11,124	4	0	4	110	11,341	4	0	4	112
				RCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109
				LCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109
				AFR	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159
P11	135W	60	700	T1S	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
				T2M	18,005	4	0	4	133	18,765	4	0	4	139	19,131	4	0	4	142
				T3M	18,271	4	0	4	135	18,980	4	0	4	141	19,350	4	0	4	143
				T3LG	16,270	3	0	3	121	16,957	3	0	3	126	17,287	4	0	4	128
				T4M	18,483	4	0	4	137	19,263	5	0	5	143	19,638	5	0	5	146
				T4LG	16,810	3	0	3	125	17,519	3	0	3	130	17,861	3	0	3	132
				TFTM	18,614	4	0	4	138	19,399	4	0	4	144	19,777	5	0	5	147
				T5M	19,017	5	0	3	141	19,819	5	0	3	147	20,205	5	0	3	150
				T5W	19,325	5	0	3	143	20,140	5	0	3	149	20,533	5	0	3	152
				T5LG	19,072	4	0	2	141	19,876	4	0	2	147	20,264	4	0	2	150
				BLC3	13,247	4	0	4	98	13,806	4	0	4	102	14,075	4	0	4	104
				BLC4	13,682	4	0	4	101	14,259	4	0	4	106	14,537	4	0	4	108
				RCCO	13,367	1	0	3	99	13,931	1	0	3	103	14,203	1	0	3	105
				LCCO	13,367	1	0	3	99	13,931	1	0	3	103	14,203	1	0	3	105
				AFR	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
P12	206W	60	1050	T1S	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
				T2M	25,436	5	0	5	124	26,509	5	0	5	129	27,025	5	0	5	131
				T3M	25,727	5	0	5	125	26,812	5	0	5	130	27,335	5	0	5	133
				T3LG	22,984	4	0	4	112	23,954	4	0	4	116	24,421	4	0	4	119
				T4M	26,110	5	0	5	127	27,212	5	0	5	132	27,742	5	0	5	135
				T4LG	23,747	4	0	4	115	24,749	4	0	4	120	25,231	4	0	4	123
				TFTM	26,295	5	0	5	128	27,404	5	0	5	133	27,938	5	0	5	136
				T5M	26,864	5	0	4	130	27,997	5	0	4	136	28,543	5	0	4	139
				T5W	27,299	5	0	4	133	28,451	5	0	4	138	29,006	5	0	4	141
				T5LG	26,942	4	0	2	131	28,078	4	0	2	136	28,626	4	0	2	139
				BLC3	18,714	4	0	4	91	19,504	4	0	4	95	19,884	4	0	4	97
				BLC4	19,327	5	0	5	94	20,143	5	0	5	98	20,535	5	0	5	100
				RCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97
				LCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97
				AFR	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
P13	276W	60	1400	T1S	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133
				T2M	31,900	5	0	5	116	33,246	5	0	5	121	33,894	5	0	5	123
				T3M	32,265	5	0	5	117	33,626	5	0	5	122	34,282	5	0	5	124
				T3LG	28,826	4	0	4	105	30,042	4	0	4	109	30,628	4	0	4	111
				T4M	32,746	5	0	5	[illegible]	34,128	5	0	5	124	34,793	5	0	5	126
				T4LG	29,782	4	0	4	108	31,039	4	0	4	113	31,644	5	0	4	115
				TFTM	32,978	5	0	5	120	34,369	5	0	5	125	35,039	5	0	5	127
				T5M	33,692	5	0	[illegible]	122	35,113	5	0	4	127	35,797	5	0	4	130
				T5W	34,[illegible]	5	0	4	124	35,682	5	0	4	129	36,378	5	0	4	132
				T5LG	33,789	5	[illegible]	3	122	35,215	5	0	3	128	35,901	5	0	3	130
				BLC3	23,471	5	0	5	85	24,461	5	0	5	89	24,937	5	0	5	90
				BLC4	24,240	[illegible]	0	5	88	25,262	5	0	5	92	25,755	5	0	5	93
				RCCO	23,683	1	0	4	86	24,682	1	0	4	89	25,163	1	0	4	91
				LCCO	23,6[illegible]	1	0	4	86	24,682	1	0	4	89	25,163	1	0	4	91
				AFR	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133

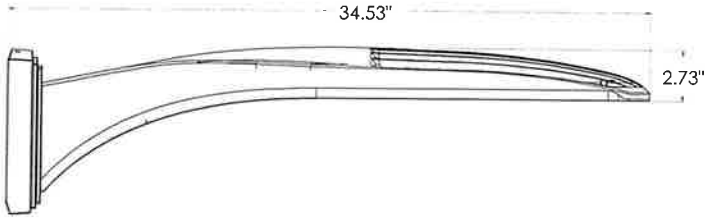
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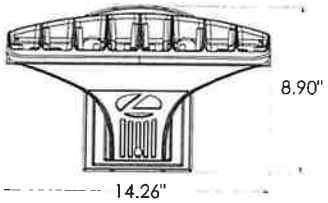
Dimensions



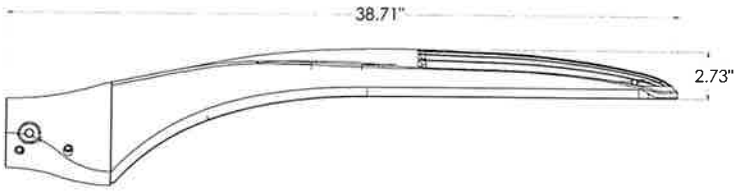


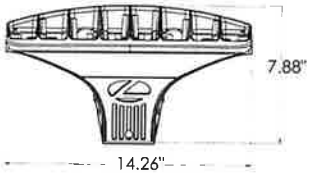
DSX1 with RPA, RPA5, SPA5, SPA8N mount
Weight: 36 lbs





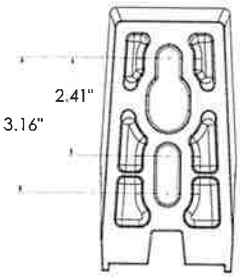
DSX1 with WBA mount
Weight: 38 lbs



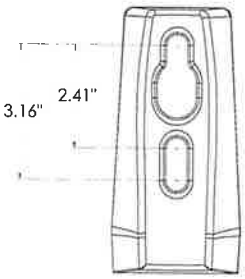


DSX1 with MA mount
Weight: 39 lbs

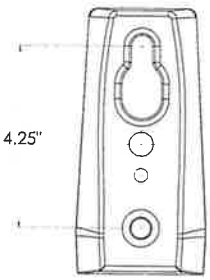
SPA (STANDARD ARM)



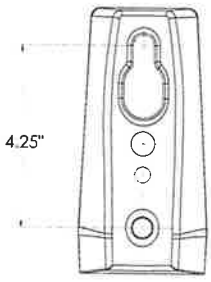
RPA



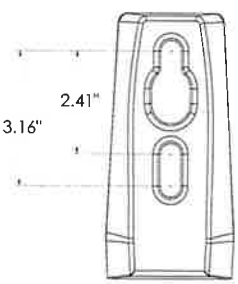
SPA5



RPA5



SPA8N

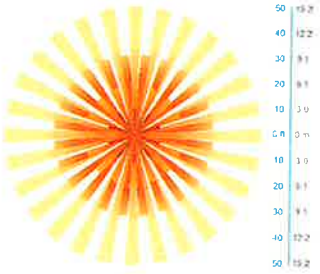


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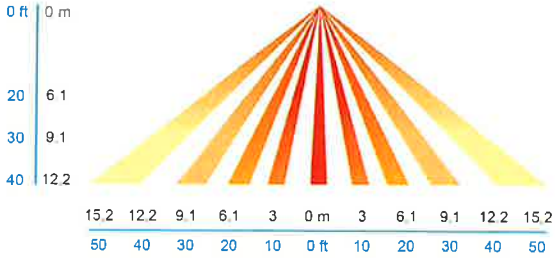
nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern
NLTAIR2 PIRHN





Top



Side

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 driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G for SPA and MA. 1.5G for mountings RPA, RPA5, SPA5 and SPA8N. Low EPA (0.69 ft²) 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.

Coastal Construction (CCE)
Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS
Precision-molded proprietary silicone 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. 80CRI configurations are also available. 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 L81/100,000 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 sensor with on-board photocells feature field-adjustable programing and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

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
Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS
UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

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.

GOVERNMENT PROCUREMENT
BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. 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.

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D-Series Size 1
LED Area Luminaire

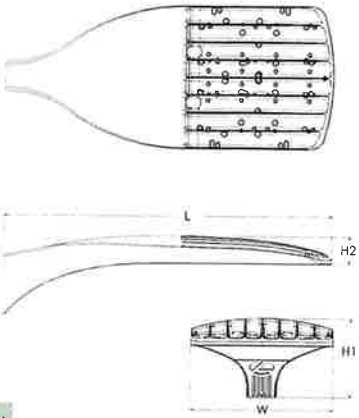
Catalog Number

Notes

Type

Specifications

EPA:	0.69 ft² (0.06 m²)
Length:	32.71" (83.1 cm)
Width:	14.26" (36.2 cm)
Height H1:	7.88" (20.0 cm)
Height H2:	2.73" (6.9 cm)
Weight:	34 lbs (15.4 kg)



Design Select options indicated by this color background.

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED

Series	LEDs	Color temperature[2]	Color Rendering Index[2]	Distribution	Voltage	Mounting
DSX1 LED	**Forward optics** P1 P6 P2 P7 P3 P8 P4 P9 P5 **Rotated optics** P10[1] P12[1] P11[1] P13[1]	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare[3] T4M Type IV medium T4LG Type IV low glare[3] TFTM Forward throw medium T5M Type V medium T5LG Type V low glare T5W Type V wide BLC3 Type III backlight control[3] BLC4 Type IV backlight control[3] LCCO Left corner cutoff[3] RCCO Right corner cutoff[3]	MVOLT (120V-277V)[4] HVOLT (347V-480V)[5,6] XVOLT (277V - 480V)[7,8] 120[16,26] 208[16,26] 240[16,26] 277[16,26] 347[16,26] 480[16,26]	**Shipped included** SPA Square pole mounting (#8 drilling) RPA Round pole mounting (#8 drilling) SPA5 Square pole mounting #5 drilling[9] RPA5 Round pole mounting #5 drilling[9] SPA8N Square narrow pole mounting #8 drilling WBA Wall bracket[10] MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options

Shipped installed

NLTAIR2 PIRHN	nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc[13,12,20,21]
PIR	High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc[13,20,21]
PER	NEMA twist-lock receptacle only (controls ordered separate)[14]
PER5	Five-pin receptacle only (controls ordered separate)[14,21]
PER7	Seven-pin receptacle only (controls ordered separate)[14,21]
FAO	Field adjustable output[15,21]
BL30	Bi-level switched dimming, 30%[16,21]
BL50	Bi-level switched dimming, 50%[16,21]
DMG	0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)[17]
DS	Dual switching[18,19,21]

Other options

Shipped installed

SPD20KV	20KV surge protection
HS	Houseside shield (black finish standard)[22]
L90	Left rotated optics[1]
R90	Right rotated optics[1]
CCE	Coastal Construction[23]
HA	50°C ambient operation[24]
BAA	Buy America(n) Act and/or Build America Buy America Qualified
SF	Single fuse (120, 277, 347V)[26]
DF	Double fuse (208, 240, 480V)[26]

Shipped separately

EGSR	External Glare Shield (reversible, field install required, matches housing finish)
BSDB	Bird Spikes (field install required)

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

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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	Shorting cap [25]
DSX1HS P#	House-side shield (enter package number 1-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSXRPA5 (FINISH)	Round pole adapter #5 drilling (specify finish)
DSX1EGSR (FINISH)	External glare shield (specify finish)
DSX1BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

NOTES

1 Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
2 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
3 T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5 HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
6 HVOLT not available with package P1 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
7 XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
8 XVOLT not available in packages P1 or P10. XVOLT not available with P1 ,P2, P5, P7, P9, P10, P11 and P13 when combined with option NLTAIR2 PIRHN or PIR. XVOLT not available with fusing (SF or DF).
9 SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
10 WBA cannot be combined with Type 5 distributions plus photocell (PER).
11 NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIR2 visit this link
12 NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P1 and P10 using HVOLT.
13 PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO BL30, BL50, DMG and DS.
14 PER/PER5/PER7 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
15 FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, DMG and DS.
16 BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO, DMG and DS. BL30 or BL50 must specify 120 or 277V.
17 DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.
18 DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.
19 DS requires (2) separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads using (2) drivers. DS only available with packages P8, P9, P10, P11, P12 and P13.
20 Reference Motion Sensor Default Settings table on page 4 to see functionality.
21 Reference Controls Options table on page 4.
22 HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
23 CCE option not available with option BS and EGSR. Contact Technical Support for availability.
24 Option HA not available with performance packages P4, P5, P7, P8, P9 and P13.
25 Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
26 Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories



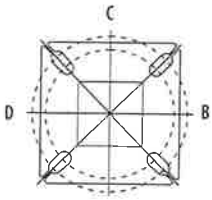
External Glare Shield (EGSR)



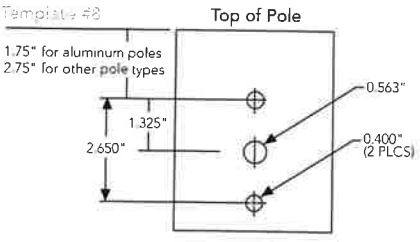
House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION



Handhole



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
		Minimum Acceptable Outside Pole Dimension					
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

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 Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 with SPA	0.69	1.38	1.23	1.54	---	1.58
DSX1 with SPA5, SPA8N	0.70	1.40	1.30	1.66	---	1.68
DSX1 with RPA, RPA5	0.70	1.40	1.30	1.66	1.60	1.68
DSX1 with MA	0.83	1.66	1.50	2.09	2.09	2.09

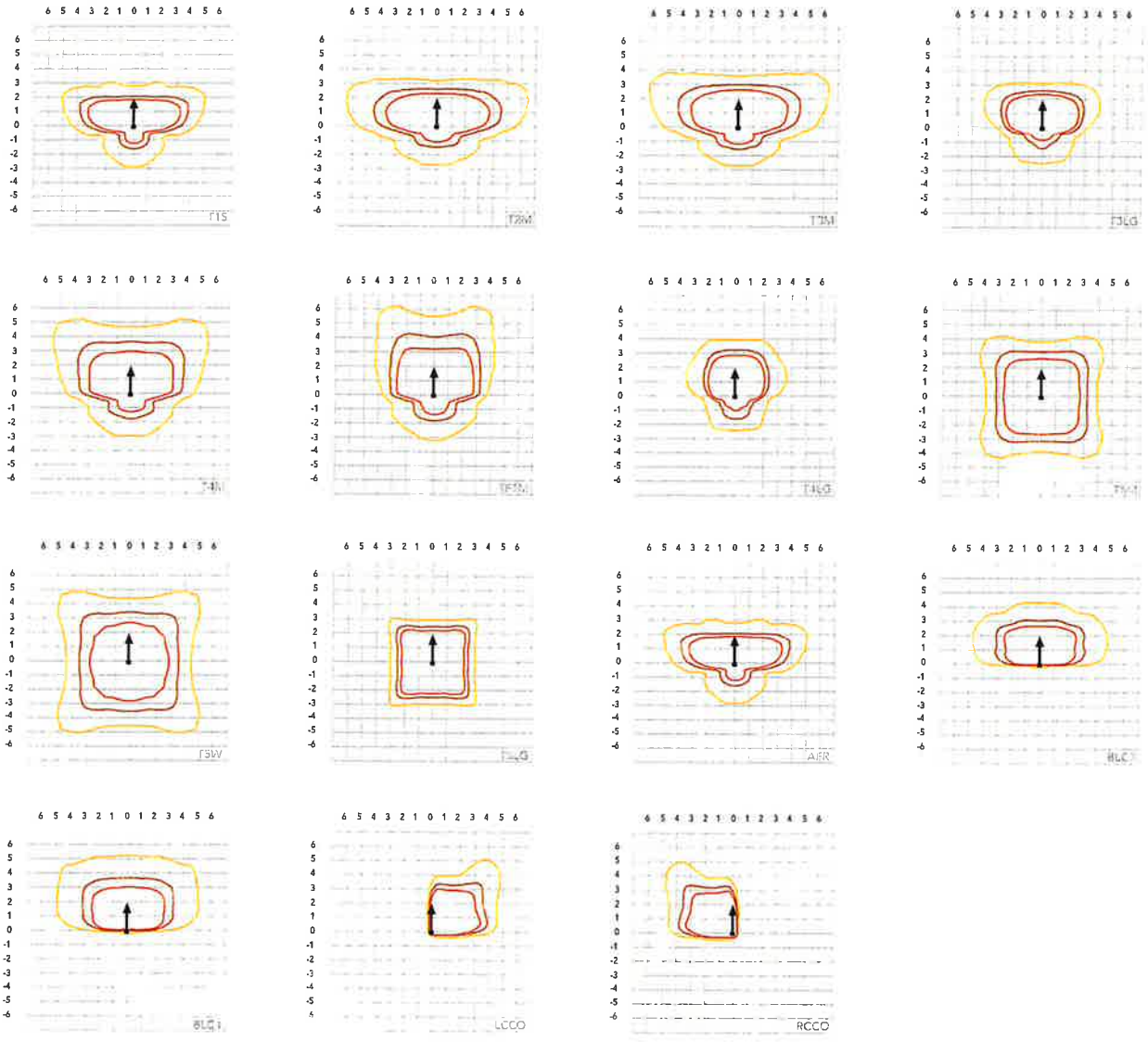
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Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's homepage.

Isofootcandle plots for the DSX1 LED P9 40K 70CRI. Distances are in units of mounting height (25').

LEGEND
0.1 fc
0.5 fc
1.0 fc



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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	1.04
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°C**	**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	0.95
50,000	0.90
100,000	0.81

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use maximum published values by package listed on specification sheet (input watts and lumens by optic type).

Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A) 120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P2	30	700	68	0.56	0.33	0.28	0.24	0.20	0.14
	P3	30	1050	104	0.85	0.49	0.43	0.37	0.29	0.21
	P4	30	1250	125	1.03	0.60	0.52	0.45	0.36	0.26
	P5	30	1400	142	1.15	0.66	0.58	0.50	0.40	0.29
	P6	40	1250	167	1.38	0.79	0.69	0.60	0.48	0.34
	P7	40	1400	188	1.54	0.89	0.77	0.67	0.53	0.38
	P8	60	1100	216	1.80	1.04	0.90	0.78	0.62	0.45
	P9	60	1400	279	2.31	1.33	1.15	1.00	0.80	0.58
Rotated Optics (Requires L90 or R90)	P10	60	530	101	0.84	0.49	0.42	0.37	0.29	0.21
	P11	60	700	135	1.12	0.65	0.56	0.49	0.39	0.28
	P12	60	1050	206	1.72	0.99	0.86	0.74	0.59	0.43
	P13	60	1400	279	2.30	1.33	1.15	1.00	0.79	0.57

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

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 (not available on DSX0)	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 receptacle	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. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
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 rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

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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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	51W	30	530	T1S	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
				T2M	7,203	1	0	3	142	7,507	2	0	3	147	7,653	2	0	3	150
				T3M	7,287	1	0	3	143	7,594	1	0	3	149	7,742	1	0	3	152
				T3LG	6,509	1	0	1	128	6,783	1	0	1	133	6,916	1	0	1	136
				T4M	7,395	1	0	3	145	7,707	1	0	3	151	7,857	1	0	3	154
				T4LG	6,726	1	0	1	132	7,010	1	0	1	138	7,146	1	0	1	140
				TFTM	7,446	1	0	3	146	7,760	1	0	3	152	7,912	1	0	3	155
				T5M	7,609	3	0	2	149	7,930	3	0	2	156	8,084	3	0	2	159
				T5W	7,732	3	0	2	152	8,058	4	0	2	158	8,215	4	0	2	161
				T5LG	7,631	3	0	1	150	7,953	3	0	1	156	8,108	3	0	1	159
				BLC3	5,300	0	0	2	104	5,524	0	0	2	109	5,631	0	0	2	111
				BLC4	5,474	0	0	3	108	5,705	0	0	3	112	5,816	0	0	3	114
				RCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				LCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				AFR	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
P2	68W	30	700	T1S	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
				T2M	9,260	2	0	3	137	9,651	2	0	3	142	9,839	2	0	3	145
				T3M	9,368	2	0	3	138	9,763	2	0	3	144	9,953	2	0	3	147
				T3LG	8,368	1	0	2	123	8,721	1	0	2	129	8,891	1	0	2	131
				T4M	9,507	2	0	3	140	9,909	2	0	3	146	10,102	2	0	3	149
				T4LG	8,647	1	0	2	128	9,012	1	0	2	133	9,187	1	0	2	136
				TFTM	9,573	2	0	3	141	9,977	2	0	3	147	10,172	2	0	3	150
				T5M	9,782	4	0	2	144	10,195	4	0	2	150	10,393	4	0	2	153
				T5W	9,940	4	0	2	147	10,360	4	0	2	153	10,562	4	0	2	156
				T5LG	9,810	3	0	1	145	10,224	3	0	1	151	10,423	3	0	1	154
				BLC3	6,814	0	0	2	101	7,101	0	0	2	105	7,240	0	0	2	107
				BLC4	7,038	0	0	3	104	7,334	0	0	3	108	7,477	0	0	3	110
				RCCO	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	108
				LCCO	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	108
				AFR	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
P3	102W	30	1050	T1S	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147
				T2M	13,055	2	0	3	128	13,605	2	0	3	133	13,871	2	0	3	136
				T3M	13,206	2	0	4	129	13,763	2	0	4	135	14,031	2	0	4	137
				T3LG	11,797	2	0	2	115	12,294	2	0	2	120	12,534	2	0	2	123
				T4M	13,403	2	0	4	131	13,968	2	0	4	137	14,241	2	0	4	139
				T4LG	12,190	2	0	2	119	12,704	2	0	2	124	12,952	2	0	2	127
				TFTM	13,496	2	0	4	132	14,065	2	0	4	138	14,339	2	0	4	140
				T5M	13,790	4	0	2	135	14,371	4	0	2	141	14,652	4	0	2	143
				T5W	14,013	4	0	3	137	14,605	4	0	3	143	14,889	4	0	3	146
				T5LG	13,830	3	0	2	135	14,413	3	0	2	141	14,694	3	0	2	144
				BLC3	9,606	0	0	2	94	10,011	0	0	2	98	10,206	0	0	2	100
				BLC4	9,921	0	0	3	97	10,340	0	0	3	101	10,541	0	0	3	103
				RCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				LCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				AFR	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147

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Performance Data

Lumen Output

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Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P4	124W	30	1250	T1S	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141
				T2M	15,207	3	0	4	123	15,849	3	0	4	128	16,158	3	0	4	130
				T3M	15,383	2	0	4	124	16,032	2	0	4	129	16,345	2	0	4	132
				T3LG	13,742	2	0	2	111	14,321	2	0	2	116	14,600	2	0	2	118
				T4M	15,613	2	0	4	126	16,272	2	0	4	131	16,589	2	0	4	134
				T4LG	14,200	2	0	2	115	14,799	2	0	2	119	15,087	2	0	2	122
				TFTM	15,721	2	0	4	127	16,384	2	0	4	132	16,703	2	0	4	135
				T5M	16,063	4	0	2	130	16,741	4	0	2	135	17,067	4	0	2	138
				T5W	16,324	5	0	3	132	17,013	5	0	3	137	17,344	5	0	3	140
				T5LG	16,110	3	0	2	130	16,790	4	0	2	135	17,117	4	0	2	138
				BLC3	11,190	0	0	3	90	11,662	0	0	3	94	11,889	0	0	3	96
				BLC4	11,557	0	0	3	93	12,044	0	0	3	97	12,279	0	0	4	99
				RCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97
				LCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97
				AFR	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141
P5	138W	30	1400	T1S	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139
				T2M	16,723	3	0	4	121	17,428	3	0	4	126	17,768	3	0	4	129
				T3M	16,917	3	0	4	122	17,630	3	0	4	128	17,974	3	0	4	130
				T3LG	15,111	2	0	2	109	15,749	2	0	2	114	16,055	2	0	2	116
				T4M	17,169	3	0	5	124	17,893	3	0	5	130	18,242	3	0	5	132
				T4LG	15,615	2	0	2	113	16,274	2	0	2	118	16,591	2	0	2	120
				TFTM	17,288	2	0	4	125	18,017	2	0	5	130	18,368	3	0	5	133
				T5M	17,664	5	0	3	128	18,410	5	0	3	133	18,768	5	0	3	136
				T5W	17,951	5	0	3	130	18,708	5	0	3	135	19,073	5	0	3	138
				T5LG	17,716	4	0	2	128	18,463	4	0	2	134	18,823	4	0	2	136
				BLC3	12,305	0	0	3	89	12,824	0	0	3	93	13,074	0	0	3	95
				BLC4	12,709	0	0	4	92	13,245	0	0	4	96	13,503	0	0	4	98
				RCCO	12,416	1	0	3	90	12,940	1	0	3	94	13,192	1	0	3	95
				LCCO	12,416	1	0	3	90	12,940	1	0	3	94	13,192	1	0	3	95
				AFR	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139
P6	165W	40	1250	T1S	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135
				T2M	19,482	3	0	4	118	20,303	3	0	4	123	20,699	3	0	4	125
				T3M	19,708	3	0	5	119	20,539	3	0	5	124	20,939	3	0	5	127
				T3LG	17,604	2	0	2	107	18,347	2	0	2	111	18,704	2	0	2	113
				T4M	20,001	3	0	5	121	20,845	3	0	5	126	21,251	3	0	5	129
				T4LG	18,191	2	0	2	110	18,959	2	0	2	115	19,328	2	0	2	117
				TFTM	20,140	3	0	5	122	20,989	3	0	5	127	21,398	3	0	5	129
				T5M	20,579	5	0	3	125	21,447	5	0	3	130	21,865	5	0	3	132
				T5W	20,912	5	0	3	127	21,795	5	0	3	132	22,219	5	0	3	134
				T5LG	20,638	4	0	2	125	21,509	4	0	2	130	21,928	4	0	2	133
				BLC3	14,335	0	0	3	87	14,940	0	0	3	90	15,231	0	0	3	92
				BLC4	14,805	0	0	4	90	15,430	0	0	4	93	15,731	0	0	4	95
				RCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93
				LCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93
				AFR	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135

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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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P7	184W	40	1400	T1S	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
				T2M	21,066	3	0	4	114	21,955	3	0	4	119	22,383	3	0	4	121
				T3M	21,311	3	0	5	116	22,210	3	0	5	120	22,642	3	0	5	123
				T3LG	19,036	2	0	2	103	19,839	2	0	3	108	20,226	2	0	3	110
				T4M	21,628	3	0	5	117	22,541	3	0	5	122	22,980	3	0	5	125
				T4LG	19,671	2	0	2	107	20,501	2	0	3	111	20,900	2	0	3	113
				TFTM	21,778	3	0	5	118	22,697	3	0	5	123	23,139	3	0	5	125
				T5M	22,252	5	0	3	121	23,191	5	0	3	126	23,643	5	0	3	128
				T5W	22,613	5	0	3	123	23,567	5	0	4	128	24,027	5	0	4	130
				T5LG	22,317	4	0	2	121	23,258	4	0	2	126	23,712	4	0	2	129
				BLC3	15,501	0	0	3	84	16,155	0	0	4	88	16,470	0	0	4	89
				BLC4	16,010	0	0	4	87	16,685	0	0	4	90	17,010	0	0	4	92
				RCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				LCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				AFR	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
P8	216W	60	1100	T1S	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
				T2M	26,587	3	0	5	123	27,709	3	0	5	128	28,249	3	0	5	131
				T3M	26,895	3	0	5	125	28,030	3	0	5	130	28,576	3	0	5	132
				T3LG	24,025	3	0	3	111	25,038	3	0	3	116	25,526	3	0	3	118
				T4M	27,296	3	0	5	127	28,448	3	0	5	132	29,002	3	0	5	134
				T4LG	24,826	3	0	3	115	25,873	3	0	3	120	26,378	3	0	3	122
				TFTM	27,485	3	0	5	127	28,645	3	0	5	133	29,203	3	0	5	135
				T5M	28,084	5	0	4	130	29,269	5	0	4	136	29,839	5	0	4	138
				T5W	28,539	5	0	4	132	29,743	5	0	4	138	30,323	5	0	4	141
				T5LG	28,165	4	0	2	131	29,354	4	0	2	136	29,926	4	0	2	139
				BLC3	19,563	0	0	4	91	20,388	0	0	4	94	20,786	0	0	4	96
				BLC4	20,205	0	0	5	94	21,057	0	0	5	98	21,468	0	0	5	99
				RCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				LCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				AFR	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
P9	277W	60	1400	T1S	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134
				T2M	32,255	3	0	5	116	33,616	3	0	5	121	34,271	3	0	5	124
				T3M	32,629	3	0	5	118	34,006	3	0	5	123	34,668	3	0	5	125
				T3LG	29,146	3	0	3	105	30,376	3	0	4	110	30,968	3	0	4	112
				T4M	33,116	3	0	5	120	34,513	3	0	5	125	35,185	3	0	5	127
				T4LG	30,119	3	0	3	109	31,389	3	0	4	113	32,001	3	0	4	116
				TFTM	33,345	3	0	5	120	34,751	3	0	5	125	35,429	3	0	5	128
				T5M	34,071	5	0	4	123	35,509	5	0	4	128	36,201	5	0	4	131
				T5W	34,624	5	0	4	125	36,084	5	0	4	130	36,788	5	0	4	133
				T5LG	34,170	5	0	3	123	35,612	5	0	3	129	36,306	5	0	3	131
				BLC3	23,734	0	0	4	86	24,735	0	0	4	89	25,217	0	0	4	91
				BLC4	24,513	0	0	5	88	25,547	0	0	5	92	26,045	0	0	5	94
				RCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				LCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				AFR	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134

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Performance Data

Lumen Output

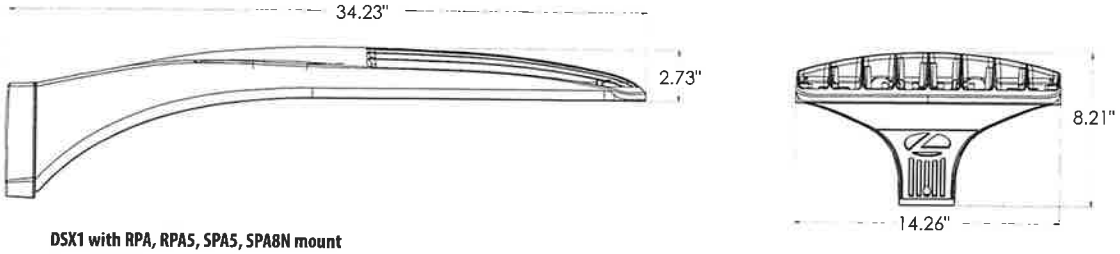
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Rotated Optics

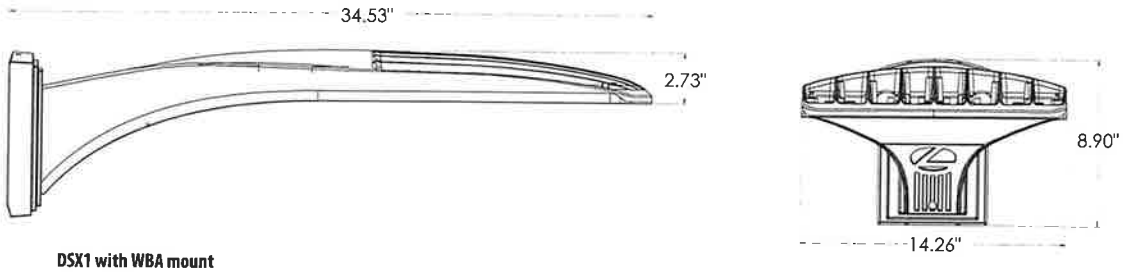
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	101W	60	530	T1S	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159
				T2M	14,047	4	0	4	139	14,640	4	0	4	145	14,925	4	0	4	147
				T3M	14,208	4	0	4	140	14,807	4	0	4	146	15,096	4	0	4	149
				T3LG	12,693	3	0	3	125	13,229	3	0	3	131	13,487	3	0	3	133
				T4M	14,420	4	0	4	142	15,028	4	0	4	148	15,321	4	0	4	151
				T4LG	13,115	3	0	3	129	13,668	3	0	3	135	13,934	3	0	3	138
				TFTM	14,522	4	0	4	143	15,134	4	0	4	149	15,429	4	0	4	152
				T5M	14,836	4	0	2	146	15,462	4	0	2	153	15,763	4	0	2	156
				T5W	15,076	4	0	3	149	15,712	5	0	3	155	16,019	5	0	3	158
				T5LG	14,879	3	0	2	147	15,507	3	0	2	153	15,809	3	0	2	156
				BLC3	10,335	3	0	3	102	10,771	4	0	4	106	10,981	4	0	4	108
				BLC4	10,674	4	0	4	105	11,124	4	0	4	110	11,341	4	0	4	112
				RCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109
				LCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109
				AFR	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159
P11	135W	60	700	T1S	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
				T2M	18,005	4	0	4	133	18,765	4	0	4	139	19,131	4	0	4	142
				T3M	18,211	4	0	4	135	18,980	4	0	4	141	19,350	4	0	4	143
				T3LG	16,270	3	0	3	121	16,957	3	0	3	126	17,287	4	0	4	128
				T4M	18,483	4	0	4	137	19,263	5	0	5	143	19,638	5	0	5	146
				T4LG	16,810	3	0	3	125	17,519	3	0	3	130	17,861	3	0	3	132
				TFTM	18,614	4	0	4	138	19,399	4	0	4	144	19,777	5	0	5	147
				T5M	19,017	5	0	3	141	19,819	5	0	3	147	20,205	5	0	3	150
				T5W	19,325	5	0	3	143	20,140	5	0	3	149	20,533	5	0	3	152
				T5LG	19,072	4	0	2	141	19,876	4	0	2	147	20,264	4	0	2	150
				BLC3	13,247	4	0	4	98	13,806	4	0	4	102	14,075	4	0	4	104
				BLC4	13,682	4	0	4	101	14,259	4	0	4	106	14,537	4	0	4	108
				RCCO	13,367	1	0	3	99	13,931	1	0	3	103	14,203	1	0	3	105
				LCCO	13,367	1	0	3	99	13,931	1	0	3	103	14,203	1	0	3	105
				AFR	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
P12	206W	60	1050	T1S	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
				T2M	25,436	5	0	5	124	26,509	5	0	5	129	27,025	5	0	5	131
				T3M	25,727	5	0	5	125	26,812	5	0	5	130	27,335	5	0	5	133
				T3LG	22,984	4	0	4	112	23,954	4	0	4	116	24,421	4	0	4	119
				T4M	26,110	5	0	5	127	27,212	5	0	5	132	27,742	5	0	5	135
				T4LG	23,747	4	0	4	115	24,749	4	0	4	120	25,231	4	0	4	123
				TFTM	26,295	5	0	5	128	27,404	5	0	5	133	27,938	5	0	5	136
				T5M	26,864	5	0	4	130	27,997	5	0	4	136	28,543	5	0	4	139
				T5W	27,299	5	0	4	133	28,451	5	0	4	138	29,006	5	0	4	141
				T5LG	26,942	4	0	2	131	28,078	4	0	2	136	28,626	4	0	2	139
				BLC3	18,714	4	0	4	91	19,504	4	0	4	95	19,884	4	0	4	97
				BLC4	19,327	5	0	5	94	20,143	5	0	5	98	20,535	5	0	5	100
				RCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97
				LCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97
				AFR	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
P13	276W	60	1400	T1S	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133
				T2M	31,900	5	0	5	116	33,246	5	0	5	121	33,894	5	0	5	123
				T3M	32,265	5	0	5	117	33,626	5	0	5	122	34,282	5	0	5	124
				T3LG	28,826	4	0	4	105	30,042	4	0	4	109	30,628	4	0	4	111
				T4M	32,746	5	0	5	119	34,128	5	0	5	124	34,793	5	0	5	126
				T4LG	29,782	4	0	4	108	31,039	4	0	4	113	31,644	5	0	4	115
				TFTM	32,978	5	0	5	120	34,369	5	0	5	125	35,039	5	0	5	127
				T5M	33,692	5	0	4	122	35,113	5	0	4	127	35,797	5	0	4	130
				T5W	34,238	5	0	4	124	35,682	5	0	4	129	36,378	5	0	4	132
				T5LG	33,789	5	0	3	122	35,215	5	0	3	128	35,901	5	0	3	130
				BLC3	23,471	5	0	5	85	24,461	5	0	5	89	24,937	5	0	5	90
				BLC4	24,240	5	0	5	88	25,262	5	0	5	92	25,755	5	0	5	93
				RCCO	23,683	1	0	4	86	24,682	1	0	4	89	25,163	1	0	4	91
				LCCO	23,683	1	0	4	86	24,682	1	0	4	89	25,163	1	0	4	91
				AFR	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133

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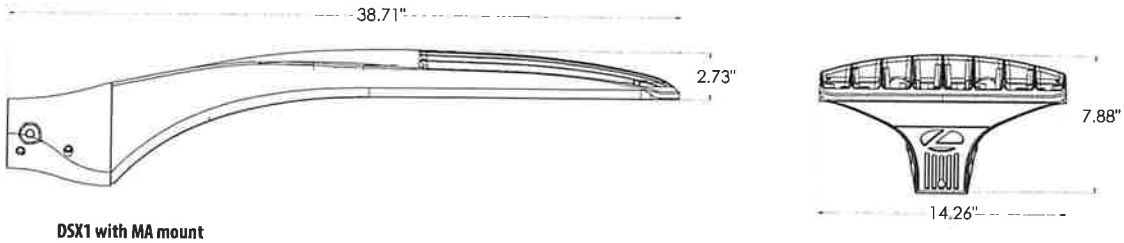
Dimensions



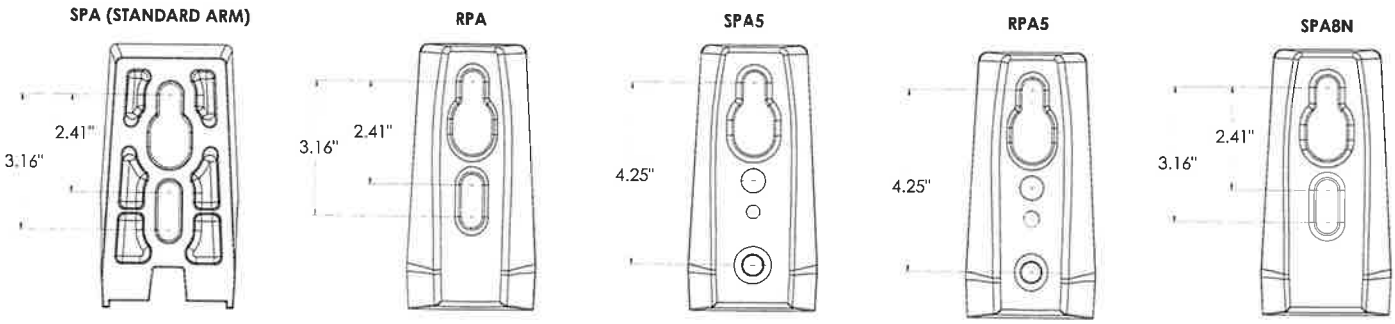
DSX1 with RPA, RPA5, SPA5, SPA8N mount
Weight: 36 lbs



DSX1 with WBA mount
Weight: 38 lbs



DSX1 with MA mount
Weight: 39 lbs

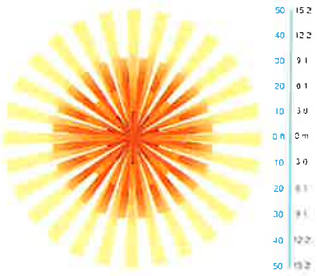


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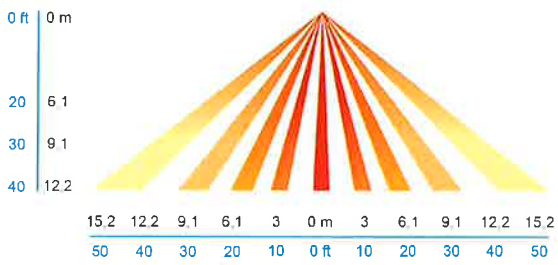
nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern
NLTAIR2 PIRHN





Top



Side

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 driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G for SPA and MA, 1.5G for mountings RPA, RPA5, SPA5 and SPA8N. Low EPA (0.69 ft²) 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.

Coastal Construction (CCE)
Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS
Precision-molded proprietary silicone 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. 80CRI configurations are also available. 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 L81/100,000 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 sensor with on-board photocells feature field-adjustable programing and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

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
Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS
UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

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.

GOVERNMENT PROCUREMENT
BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. 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.

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D-Series Size 2
LED Area Luminaire

d#series

Catalog Number

Notes

Type

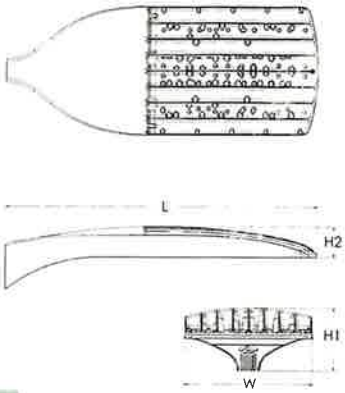
Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers 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. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of up to 80% vs. 1000W HID and expected service life of over 100,000 hours.

Specifications

EPA:	1.06 ft² (0.10 m²)
Length:	40.59" (103.1 cm)
Width:	16.76" (42.6 cm)
Height H1:	8.11" (20.6 cm)
Height H2:	3.96" (10.1 cm)
Weight:	46 lbs (20.9 kg)



Design Select options indicated by this color background.

design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

Ordering Information

EXAMPLE: DSX2 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX2 LED

Series	LEDs	Color temperature[2]	Color Rendering Index[2]	Distribution		Voltage	Mounting
DSX2 LED	**Forward optics** P1 P5 P2 P6 P3 P7 P4 P8 **Rotated optics** P10[1] P13[1] P11[1] P14[1] P12[1]	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare[3] T4M Type IV medium T4LG Type IV low glare[3] TFTM Forward throw medium	T5M Type V medium T5LG Type V low glare T5W Type V wide BLC3 Type III backlight control[3] BLC4 Type IV backlight control[3] LCCO Left corner cutoff[3] RCCO Right corner cutoff[3]	MVOLT (120V-277V)[4] HVOLT (347V-480V)[5,6] XVOLT (277V - 480V)[7,8] 120[16,26] 208[16,26] 240[16,26] 277[16,26] 347[16,26] 480[16,26]	**Shipped included** SPA Square pole mounting (#8 drilling) RPA Round pole mounting (#8 drilling) SPA5 Square pole mounting #5 drilling[9] RPA5 Round pole mounting #5 drilling[9] SPA8N Square narrow pole mounting #8 drilling WBA Wall bracket[10] MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options			Other options		Finish *(required)*	
Shipped installed		PER7 Seven-pin receptacle only (controls ordered separately)[13,21]	**Shipped installed**	**Shipped separately**	DDBXD	Dark Bronze
NLTAIR2 PIRHN	nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8–40' mounting height, ambient sensor enabled at 2fc[11,12,20,21]	FAO Field adjustable output[15,21]	SPD20KV 20KV surge protection	EGSR External Glare Shield (reversible, field install required, matches housing finish)	DBLXD	Black
PIR	High/low, motion/ambient sensor, 8–40' mounting height, ambient sensor enabled at 2fc[13,20,21]	BL30 Bi-level switched dimming, 30%[16,21]	HS Houseside shield (black finish standard)[22]	BSDB Bird Spikes (field install required)	DNAXD	Natural Aluminum
PER	NEMA twist-lock receptacle only (controls ordered separate)[14]	BL50 Bi-level switched dimming, 50%[16,21]	L90 Left rotated optics[1]		DWHXD	White
PER5	Five-pin receptacle only (controls ordered separate)[14,21]	DMG 0–10v dimming wires pulled outside fixture (for use with an external control, ordered separately)[17]	R90 Right rotated optics[1]		DDBTXD	Textured dark bronze
		DS Dual switching[18,19,21]	CCE Coastal Construction[23]		DBLBXD	Textured black
			HA 50°C ambient operation[24]		DNATXD	Textured natural aluminum
			BAA Buy America(n) Act and/or Build America Buy America Qualified		DWHGXD	Textured white
			SF Single fuse (120, 277, 347V)[26]			
			DF Double fuse (208, 240, 480V)[26]			
			3G Vibration rated for 3G[27]			

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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	Shorting cap [25]
DSX2HS P#	House-side shield (enter package number 1-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSXRPA5 (FINISH)	Round pole adapter #5 drilling (specify finish)
DSX2EGSR (FINISH)	External glare shield (specify finish)
DSX2BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

NOTES

1 Rotated optics available with packages P10, P11, P12, P13 and P14. Must be combined with option L90 or R90.
2 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
3 T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5 HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
6 HVOLT not available with package P10 when combined with option NLTAIR2 PIRHN or option PIR.
7 XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
8 XVOLT not available in package P10. XVOLT not available in packages P1, P2, P8, P10, P11, P12 and P14 when combined with option NLTAIR2 PIRHN or option PIR. XVOLT not available with fusing (SF or DF).
9 SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
10 WBA cannot be combined with Type 5 distributions plus photocell (PER).
11 NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIR2 visit this link
12 NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P10 using HVOLT.
13 PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO BL30, BL50, DMG and DS. PIR not available with P10 using HVOLT.
14 PER/PER5/PER7 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
15 FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, DMG and DS.
16 BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO, DMG and DS. BL30 or BL50 must specify 120 or 277V.
17 DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.
18 DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.
19 DS requires (2) separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads on P1, P2, P3, P4, P5 (2 drivers). Note: Provides 60/40 operation using (2) different sets of leads on P6, P7, P8, P9, P10, P11, P12, P13, P14 (3 drivers).
20 Reference Motion Sensor Default Settings table on page 4 to see functionality.
21 Reference Controls Options table on page 4.
22 HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
23 CCE option not available with option BS and EGSR. Contact Technical Support for availability.
24 Option HA not available with performance packages P5, P6, P7, P8, P13 and P14.
25 Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
26 Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).
27 Option 3G for use with (MA) mast arm mount only when 3G vibration is required.

Shield Accessories



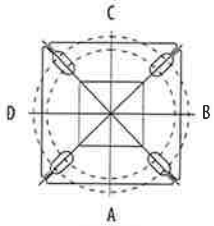
External Glare Shield (EGSR)

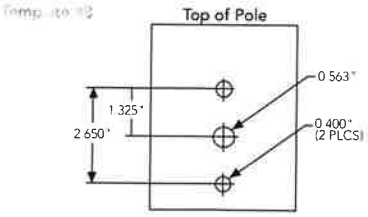


House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION





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
		Minimum Acceptable Outside Pole Dimension					
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX2 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 Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX2 with SPA	1.06	2.12	1.84	2.32	---	2.33
DSX2 with SPA5, SPA8N	1.07	2.14	1.90	2.43	---	2.44
DSX2 with RPA, RPA5	1.07	2.14	1.90	2.43	2.31	2.44
DSX2 with MA	1.20	2.40	2.12	3.00	2.92	3.00

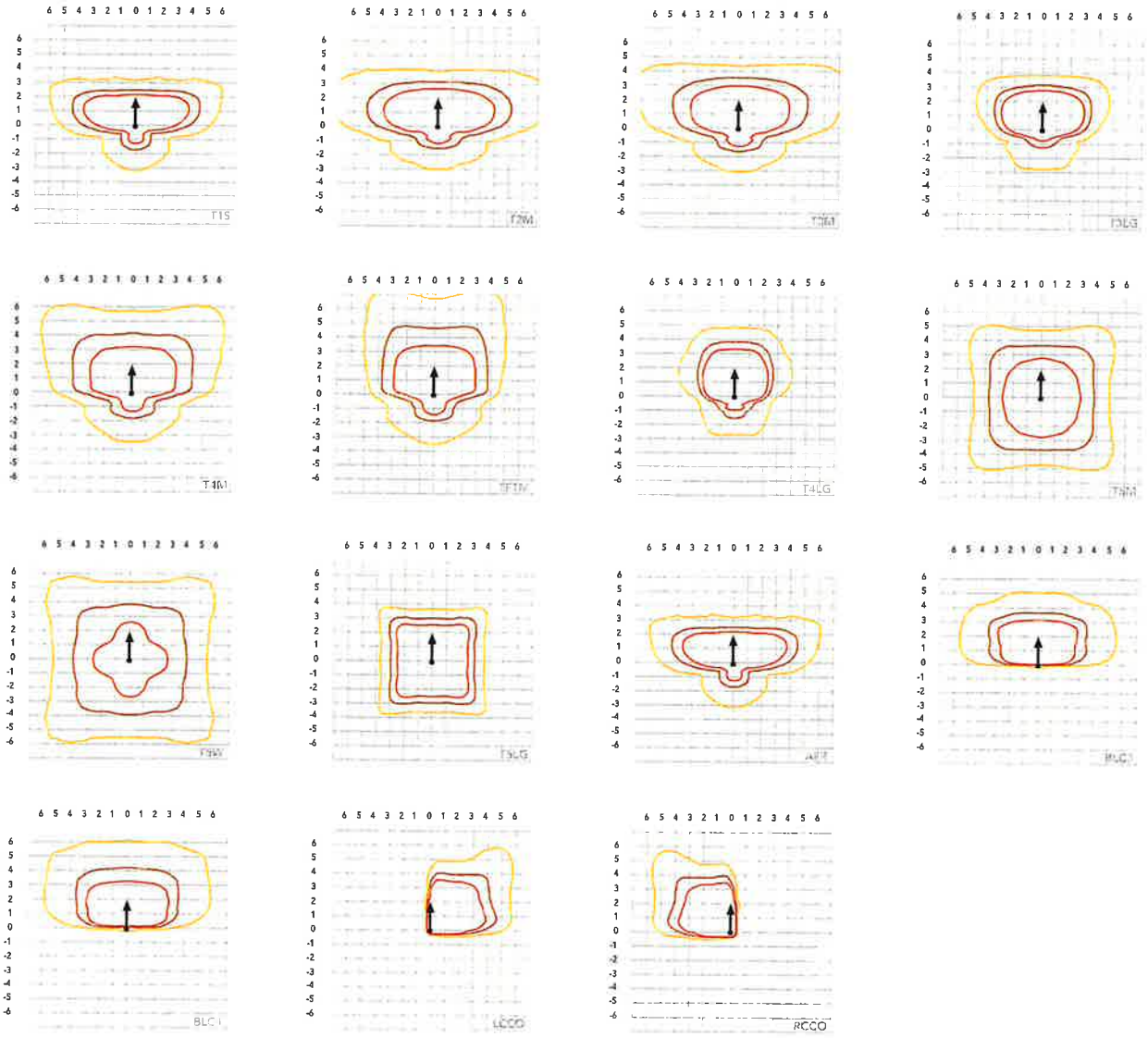
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Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's homepage.

Isofootcandle plots for the DSX2 LED P8 40K 70CRI. Distances are in units of mounting height (40').

LEGEND
- 0.1 fc
- 0.5 fc
- 1.0 fc



1 Acuity Way • Decatur, Georgia 30035 • Phone: 1-800-705-SERV (7378) • www.lithonia.com

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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	1.04
5°C	41°F	1.03
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	0.95
50,000	0.90
100,000	0.82

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use published values for each package based on input watts and lumens by optic type.

Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A) 120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	80	530	135	1.12	0.65	0.56	0.49	0.39	0.28
	P2	80	700	181	1.49	0.86	0.75	0.65	0.52	0.37
	P3	80	850	222	1.83	1.05	0.91	0.79	0.63	0.46
	P4	80	1050	277	2.27	1.31	1.14	0.98	0.79	0.57
	P5	80	1250	333	2.72	1.57	1.36	1.18	0.94	0.68
	P6	100	1050	345	2.85	1.64	1.42	1.23	0.98	0.71
	P7	100	1250	414	3.41	1.97	1.70	1.48	1.18	0.85
	P8	100	1400	466	3.85	2.22	1.93	1.67	1.33	0.96
Rotated Optics (Requires L90 or R90)	P10	90	530	152	1.27	0.73	0.63	0.55	0.44	0.32
	P11	90	700	203	1.69	0.97	0.84	0.73	0.58	0.42
	P12	90	850	249	2.06	1.19	1.03	0.89	0.71	0.52
	P13	90	1200	358	2.95	1.70	1.47	1.28	1.02	0.74
	P14	90	1400	421	3.46	2.00	1.73	1.50	1.20	0.87

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

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 (not available on DSX0)	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 receptacle	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. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
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 rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CLAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

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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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	135W	80	530	T1S	19,946	2	0	3	148	20,787	2	0	3	155	21,192	2	0	3	158
				T2M	18,477	3	0	4	137	19,256	3	0	4	143	19,632	3	0	4	146
				T3M	18,691	3	0	5	139	19,480	3	0	5	145	19,859	3	0	5	148
				T3LG	16,696	2	0	2	124	17,400	2	0	2	129	17,740	2	0	2	132
				T4M	18,970	3	0	5	141	19,770	3	0	5	147	20,155	3	0	5	150
				T4LG	17,253	2	0	2	128	17,981	2	0	2	134	18,331	2	0	2	136
				TFTM	19,101	3	0	5	142	19,907	3	0	5	148	20,295	3	0	5	151
				T5M	19,517	5	0	3	145	20,341	5	0	3	151	20,737	5	0	3	154
				T5W	19,834	5	0	3	147	20,670	5	0	3	154	21,073	5	0	3	157
				T5LG	19,574	4	0	2	146	20,400	4	0	2	152	20,797	4	0	2	155
				BLC3	13,595	0	0	3	101	14,169	0	0	3	105	14,445	0	0	3	107
				BLC4	14,042	0	0	4	104	14,634	0	0	4	109	14,919	0	0	4	111
				RCCO	13,718	1	0	3	102	14,297	1	0	3	106	14,576	1	0	3	108
				LCCO	13,718	1	0	3	102	14,297	1	0	3	106	14,576	1	0	3	108
				AFR	19,946	2	0	3	148	20,787	2	0	3	155	21,192	2	0	3	158
P2	179W	80	700	T1S	25,520	3	0	3	142	26,597	3	0	3	148	27,116	3	0	3	151
				T2M	23,641	3	0	5	132	24,638	3	0	5	137	25,118	3	0	5	140
				T3M	23,915	3	0	5	133	24,924	3	0	5	139	25,410	3	0	5	142
				T3LG	21,363	3	0	3	119	22,264	3	0	3	124	22,698	3	0	3	127
				T4M	24,272	3	0	5	135	25,296	3	0	5	141	25,789	3	0	5	144
				T4LG	22,075	3	0	3	123	23,006	3	0	3	128	23,455	3	0	3	131
				TFTM	24,440	3	0	5	136	25,471	3	0	5	142	25,967	3	0	5	145
				T5M	24,972	5	0	3	139	26,026	5	0	3	145	26,533	5	0	4	148
				T5W	25,377	5	0	4	142	26,448	5	0	4	148	26,963	5	0	4	150
				T5LG	25,045	4	0	2	140	26,101	4	0	2	146	26,610	4	0	2	148
				BLC3	17,395	0	0	4	97	18,129	0	0	4	101	18,482	0	0	4	103
				BLC4	17,966	0	0	4	100	18,724	0	0	5	104	19,089	0	0	5	107
				RCCO	17,552	1	0	4	98	18,293	1	0	4	102	18,649	1	0	4	104
				LCCO	17,552	1	0	4	98	18,293	1	0	4	102	18,649	1	0	4	104
				AFR	25,520	3	0	3	142	26,597	3	0	3	148	27,116	3	0	3	151
P3	219W	80	850	T1S	30,127	3	0	4	137	31,398	3	0	4	143	32,010	3	0	4	146
				T2M	27,908	3	0	5	127	29,085	3	0	5	133	29,652	3	0	5	135
				T3M	28,232	3	0	5	129	29,423	3	0	5	134	29,996	3	0	5	137
				T3LG	25,218	3	0	3	115	26,282	3	0	3	120	26,794	3	0	3	122
				T4M	28,652	3	0	5	131	29,861	3	0	5	136	30,443	3	0	5	139
				T4LG	26,059	3	0	3	119	27,159	3	0	3	124	27,688	3	0	3	126
				TFTM	28,851	3	0	5	132	30,068	3	0	5	137	30,654	3	0	5	140
				T5M	29,479	5	0	4	134	30,723	5	0	4	140	31,322	5	0	4	143
				T5W	29,957	5	0	4	137	31,221	5	0	4	142	31,830	5	0	4	145
				T5LG	29,565	4	0	2	135	30,812	5	0	2	140	31,413	5	0	2	143
				BLC3	20,535	0	0	4	94	21,401	0	0	4	98	21,818	0	0	4	99
				BLC4	21,209	0	0	5	97	22,104	0	0	5	101	22,534	0	0	5	103
				RCCO	20,720	1	0	4	94	21,594	1	0	4	98	22,015	1	0	4	100
				LCCO	20,720	1	0	4	94	21,594	1	0	4	98	22,015	1	0	4	100
				AFR	30,127	3	0	4	137	31,398	3	0	4	143	32,010	3	0	4	146
P4	273W	80	1050	T1S	35,879	3	0	4	132	37,392	3	0	4	137	38,121	3	0	4	140
				T2M	33,236	3	0	5	122	34,638	3	0	5	127	35,313	3	0	5	130
				T3M	33,622	3	0	5	123	35,040	3	0	5	129	35,723	3	0	5	131
				T3LG	30,033	3	0	4	110	31,300	3	0	4	115	31,910	3	0	4	117
				T4M	34,123	3	0	5	125	35,562	3	0	5	130	36,255	3	0	5	133
				T4LG	31,035	3	0	4	114	32,344	3	0	4	119	32,974	3	0	4	121
				TFTM	34,359	3	0	5	126	35,808	3	0	5	131	36,506	3	0	5	134
				T5M	35,108	5	0	4	129	36,589	5	0	4	134	37,302	5	0	4	137
				T5W	35,677	5	0	4	131	37,182	5	0	5	136	37,907	5	0	5	139
				T5LG	35,209	5	0	3	129	36,695	5	0	3	135	37,410	5	0	3	137
				BLC3	24,456	0	0	4	90	25,487	0	0	4	93	25,984	0	0	5	95
				BLC4	25,258	0	0	5	93	26,324	0	0	5	97	26,837	0	0	5	98
				RCCO	24,676	1	0	4	91	25,717	1	0	4	94	26,218	1	0	4	96
				LCCO	24,676	1	0	4	91	25,717	1	0	4	94	26,218	1	0	4	96
				AFR	35,879	3	0	4	132	37,392	3	0	4	137	38,121	3	0	4	140

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Performance Data

Lumen Output

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Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P5	327W	80	1250	T1S	41,149	3	0	4	126	42,885	3	0	4	131	43,721	3	0	4	134
				T2M	38,118	4	0	5	117	39,727	4	0	5	122	40,501	4	0	5	124
				T3M	38,561	3	0	5	118	40,187	3	0	5	123	40,971	3	0	5	125
				T3LG	34,445	3	0	4	105	35,898	3	0	4	110	36,598	3	0	4	112
				T4M	39,135	3	0	5	120	40,786	3	0	5	125	41,581	3	0	5	127
				T4LG	35,594	3	0	4	109	37,095	3	0	4	114	37,818	3	0	4	116
				TFTM	39,406	3	0	5	121	41,069	3	0	5	126	41,869	3	0	5	128
				T5M	40,265	5	0	4	123	41,964	5	0	4	128	42,782	5	0	5	131
				T5W	40,918	5	0	5	125	42,644	5	0	5	131	43,475	5	0	5	133
				T5LG	40,382	5	0	3	124	42,085	5	0	3	129	42,906	5	0	3	131
				BLC3	28,048	0	0	5	86	29,231	0	0	5	90	29,801	0	0	5	91
				BLC4	28,969	0	0	5	89	30,191	0	0	5	92	30,779	0	0	5	94
				RCCO	28,301	2	0	5	87	29,495	2	0	5	90	30,070	2	0	5	92
				LCCO	28,301	2	0	5	87	29,495	2	0	5	90	30,070	2	0	5	92
				AFR	41,149	3	0	4	126	42,885	3	0	4	131	43,721	3	0	4	134
P6	342W	100	1050	T1S	45,968	3	0	4	135	47,907	3	0	5	140	48,841	3	0	5	143
				T2M	42,582	4	0	5	125	44,379	4	0	5	130	45,244	4	0	5	132
				T3M	43,076	4	0	5	126	44,894	4	0	5	131	45,769	4	0	5	134
				T3LG	38,479	3	0	4	113	40,102	3	0	4	117	40,884	3	0	4	120
				T4M	43,719	4	0	5	128	45,563	4	0	5	133	46,451	4	0	5	136
				T4LG	39,762	3	0	4	116	41,439	3	0	4	121	42,247	3	0	4	124
				TFTM	44,021	3	0	5	129	45,878	4	0	5	134	46,772	4	0	5	137
				T5M	44,980	5	0	5	132	46,878	5	0	5	137	47,792	5	0	5	140
				T5W	45,710	5	0	5	134	47,638	5	0	5	139	48,566	5	0	5	142
				T5LG	45,111	5	0	3	132	47,014	5	0	3	138	47,930	5	0	3	140
				BLC3	31,333	0	0	5	92	32,655	0	0	5	96	33,291	0	0	5	97
				BLC4	32,361	0	0	5	95	33,726	0	0	5	99	34,384	0	0	5	101
				RCCO	31,615	2	0	5	93	32,949	2	0	5	96	33,591	2	0	5	98
				LCCO	31,615	2	0	5	93	32,949	2	0	5	96	33,591	2	0	5	98
				AFR	45,968	3	0	4	135	47,907	3	0	5	140	48,841	3	0	5	143
P7	409W	100	1250	T1S	52,692	3	0	5	129	54,915	3	0	5	134	55,986	3	0	5	137
				T2M	48,811	4	0	5	119	50,871	4	0	5	124	51,862	4	0	5	127
				T3M	49,378	4	0	5	121	51,461	4	0	5	126	52,464	4	0	5	128
				T3LG	44,107	3	0	4	108	45,968	3	0	4	112	46,864	3	0	5	115
				T4M	50,114	4	0	5	122	52,228	4	0	5	128	53,246	4	0	5	130
				T4LG	45,579	3	0	4	111	47,501	3	0	4	116	48,427	3	0	4	118
				TFTM	50,460	4	0	5	123	52,589	4	0	5	129	53,614	4	0	5	131
				T5M	51,560	5	0	5	126	53,735	5	0	5	131	54,783	5	0	5	134
				T5W	52,396	5	0	5	128	54,607	5	0	5	133	55,671	5	0	5	136
				T5LG	51,710	5	0	4	126	53,891	5	0	4	132	54,941	5	0	4	134
				BLC3	35,916	1	0	5	88	37,431	1	0	5	91	38,161	1	0	5	93
				BLC4	37,095	0	0	5	91	38,660	0	0	5	94	39,413	0	0	5	96
				RCCO	36,240	2	0	5	89	37,769	2	0	5	92	38,505	2	0	5	94
				LCCO	36,240	2	0	5	89	37,769	2	0	5	92	38,505	2	0	5	94
				AFR	52,692	3	0	5	129	54,915	3	0	5	134	55,986	3	0	5	137
P8	462W	100	1400	T1S	57,662	3	0	5	125	60,094	4	0	5	130	61,266	4	0	5	132
				T2M	53,415	4	0	5	116	55,668	4	0	5	120	56,753	4	0	5	123
				T3M	54,034	4	0	5	117	56,314	4	0	5	122	57,412	4	0	5	124
				T3LG	48,267	3	0	5	104	50,304	3	0	5	109	51,284	4	0	5	111
				T4M	54,840	4	0	5	119	57,154	4	0	5	124	58,268	4	0	5	126
				T4LG	49,877	3	0	5	108	51,981	3	0	5	112	52,994	3	0	5	115
				TFTM	55,219	4	0	5	119	57,549	4	0	5	124	58,671	4	0	5	127
				T5M	56,423	5	0	5	122	58,803	5	0	5	127	59,949	5	0	5	130
				T5W	57,338	5	0	5	124	59,757	5	0	5	129	60,921	5	0	5	132
				T5LG	56,586	5	0	4	122	58,974	5	0	4	128	60,123	5	0	4	130
				BLC3	39,303	1	0	5	85	40,962	1	0	5	89	41,760	1	0	5	90
				BLC4	40,593	0	0	5	88	42,306	0	0	5	91	43,130	0	0	5	93
				RCCO	39,658	2	0	5	86	41,331	2	0	5	89	42,137	2	0	5	91
				LCCO	39,658	2	0	5	86	41,331	2	0	5	89	42,137	2	0	5	91
				AFR	57,662	3	0	5	125	60,094	4	0	5	130	61,266	4	0	5	132

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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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Rotated Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	152W	90	530	T1S	22,798	4	0	4	150	23,760	4	0	4	156	24,223	4	0	4	159
				T2M	21,119	5	0	5	139	22,010	5	0	5	145	22,439	5	0	5	148
				T3M	21,361	5	0	5	141	22,262	5	0	5	147	22,696	5	0	5	149
				T3LG	19,084	4	0	4	126	19,889	4	0	4	131	20,277	4	0	4	133
				T4M	21,679	5	0	5	143	22,594	5	0	5	149	23,034	5	0	5	152
				T4LG	19,717	4	0	4	130	20,549	4	0	4	135	20,950	4	0	4	138
				TFTM	21,833	5	0	5	144	22,754	5	0	5	150	23,197	5	0	5	153
				T5M	22,305	5	0	3	147	23,246	5	0	3	153	23,699	5	0	3	156
				T5W	22,667	5	0	3	149	23,623	5	0	4	155	24,084	5	0	4	158
				T5LG	22,370	4	0	2	147	23,314	4	0	2	153	23,768	4	0	2	156
				BLC3	15,539	4	0	4	102	16,194	4	0	4	107	16,510	4	0	4	109
				BLC4	16,048	4	0	4	106	16,725	4	0	4	110	17,051	4	0	4	112
				RCCO	15,679	1	0	3	103	16,340	1	0	3	108	16,659	1	0	3	110
				LCCO	15,679	1	0	3	103	16,340	1	0	3	108	16,659	1	0	3	110
				AFR	22,798	4	0	4	150	23,760	4	0	4	156	24,223	4	0	4	159
P11	203W	90	700	T1S	29,222	4	0	4	144	30,455	4	0	4	150	31,048	4	0	4	153
				T2M	27,070	5	0	5	134	28,212	5	0	5	139	28,762	5	0	5	142
				T3M	27,380	5	0	5	135	28,535	5	0	5	141	29,091	5	0	5	144
				T3LG	24,462	4	0	4	121	25,493	4	0	4	126	25,990	4	0	4	128
				T4M	27,788	5	0	5	137	28,960	5	0	5	143	29,525	5	0	5	146
				T4LG	25,273	4	0	4	125	26,339	4	0	4	130	26,853	4	0	4	133
				TFTM	27,985	5	0	5	138	29,165	5	0	5	144	29,734	5	0	5	147
				T5M	28,591	5	0	4	141	29,797	5	0	4	147	30,377	5	0	4	150
				T5W	29,054	5	0	4	143	30,280	5	0	4	149	30,870	5	0	4	152
				T5LG	28,673	4	0	2	142	29,883	4	0	2	148	30,465	5	0	2	150
				BLC3	19,917	4	0	4	98	20,757	4	0	4	102	21,162	4	0	4	104
				BLC4	20,570	5	0	5	102	21,437	5	0	5	106	21,855	5	0	5	108
				RCCO	20,097	1	0	4	99	20,945	1	0	4	103	21,353	1	0	4	105
				LCCO	20,097	1	0	4	99	20,945	1	0	4	103	21,353	1	0	4	105
				AFR	29,222	4	0	4	144	30,455	4	0	4	150	31,048	4	0	4	153
P12	248W	90	850	T1S	34,526	5	0	5	139	35,983	5	0	5	145	36,684	5	0	5	148
				T2M	31,984	5	0	5	129	33,333	5	0	5	135	33,983	5	0	5	137
				T3M	32,350	5	0	5	131	33,715	5	0	5	136	34,372	5	0	5	139
				T3LG	28,902	4	0	4	117	30,121	4	0	4	122	30,708	4	0	4	124
				T4M	32,832	5	0	5	133	34,217	5	0	5	138	34,884	5	0	5	141
				T4LG	29,861	4	0	4	121	31,120	4	0	4	126	31,727	5	0	4	128
				TFTM	33,064	5	0	5	134	34,459	5	0	5	139	35,131	5	0	5	142
				T5M	33,780	5	0	4	136	35,205	5	0	4	142	35,891	5	0	4	145
				T5W	34,327	5	0	4	139	35,776	5	0	4	145	36,473	5	0	4	147
				T5LG	33,878	5	0	3	137	35,307	5	0	3	143	35,995	5	0	3	145
				BLC3	23,532	5	0	5	95	24,525	5	0	5	99	25,003	5	0	5	101
				BLC4	24,303	5	0	5	98	25,328	5	0	5	102	25,822	5	0	5	104
				RCCO	23,745	1	0	4	96	24,747	1	0	4	100	25,229	1	0	4	102
				LCCO	23,745	1	0	4	96	24,747	1	0	4	100	25,229	1	0	4	102
				AFR	34,526	5	0	5	139	35,983	5	0	5	145	36,684	5	0	5	148

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Performance Data

Lumen Output

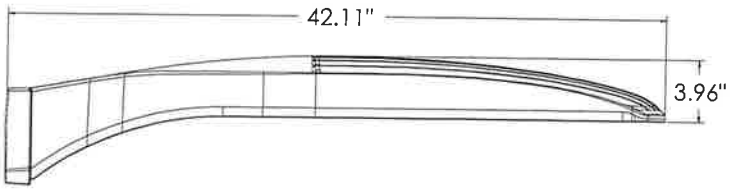
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

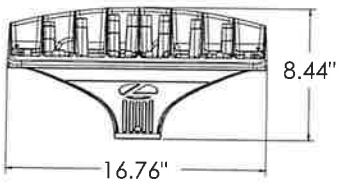
Rotated Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P13	354W	90	1200	T1S	45,748	5	0	5	129	47,678	5	0	5	135	48,608	5	0	5	137
				T2M	42,380	5	0	5	120	44,168	5	0	5	125	45,029	5	0	5	127
				T3M	42,865	5	0	5	121	44,673	5	0	5	126	45,544	5	0	5	129
				T3LG	38,296	5	0	5	108	39,911	5	0	5	113	40,689	5	0	5	115
				T4M	43,503	5	0	5	123	45,339	5	0	5	128	46,222	5	0	5	131
				T4LG	39,566	5	0	5	112	41,235	5	0	5	117	42,039	5	0	5	119
				TFTM	43,811	5	0	5	124	45,659	5	0	5	129	46,549	5	0	5	132
				T5M	44,760	5	0	5	126	46,648	5	0	5	132	47,557	5	0	5	134
				T5W	45,485	5	0	5	129	47,404	5	0	5	134	48,328	5	0	5	137
				T5LG	44,889	5	0	3	127	46,783	5	0	3	132	47,695	5	0	3	135
				BLC3	31,181	5	0	5	88	32,496	5	0	5	92	33,130	5	0	5	94
				BLC4	32,202	5	0	5	91	33,561	5	0	5	95	34,215	5	0	5	97
				RCCO	31,463	2	0	5	89	32,790	2	0	5	93	33,429	2	0	5	94
				LCCO	31,463	2	0	5	89	32,790	2	0	5	93	33,429	2	0	5	94
				AFR	45,748	5	0	5	129	47,678	5	0	5	135	48,608	5	0	5	137
P14	415W	90	1400	T1S	51,272	5	0	5	123	53,435	5	0	5	129	54,476	5	0	5	131
				T2M	47,497	5	0	5	114	49,500	5	0	5	119	50,465	5	0	5	121
				T3M	48,040	5	0	5	116	50,067	5	0	5	121	51,043	5	0	5	123
				T3LG	42,919	5	0	5	103	44,730	5	0	5	108	45,602	5	0	5	110
				T4M	48,756	5	0	5	117	50,813	5	0	5	122	51,803	5	0	5	125
				T4LG	44,343	5	0	5	107	46,214	5	0	5	111	47,115	5	0	5	113
				TFTM	49,101	5	0	5	118	51,172	5	0	5	123	52,169	5	0	5	126
				T5M	50,164	5	0	5	121	52,280	5	0	5	126	53,299	5	0	5	128
				T5W	50,977	5	0	5	123	53,127	5	0	5	128	54,163	5	0	5	130
				T5LG	50,309	5	0	4	121	52,432	5	0	4	126	53,453	5	0	4	129
				BLC3	34,945	5	0	5	84	36,420	5	0	5	88	37,130	5	0	5	89
				BLC4	36,090	5	0	5	87	37,613	5	0	5	91	38,346	5	0	5	92
				RCCO	35,261	2	0	5	85	36,749	2	0	5	88	37,465	2	0	5	90
				LCCO	35,261	2	0	5	85	36,749	2	0	5	88	37,465	2	0	5	90
				AFR	51,272	5	0	5	123	53,435	5	0	5	129	54,476	5	0	5	131

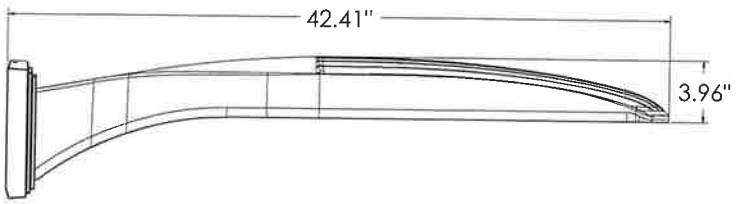
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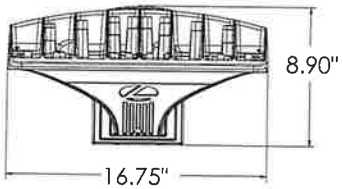
Dimensions



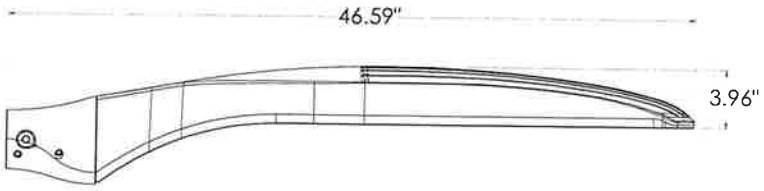


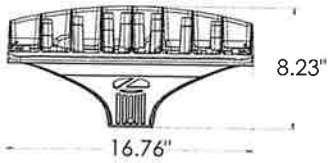
DSX2 with RPA, RPA5, SPA5, SPA8N mount
Weight: 48 lbs





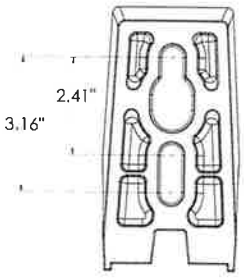
DSX2 with WBA mount
Weight: 50 lbs



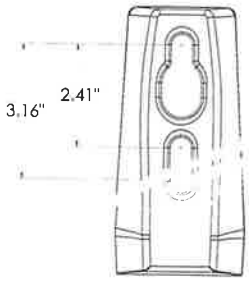


DSX2 with MA mount
Weight: 50 lbs

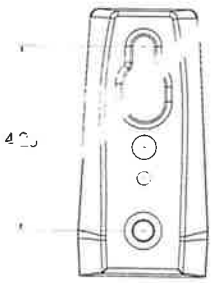
SPA (STANDARD ARM)



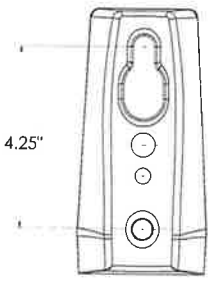
RPA



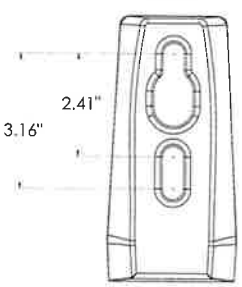
SPA5



RPA5



SPA8N

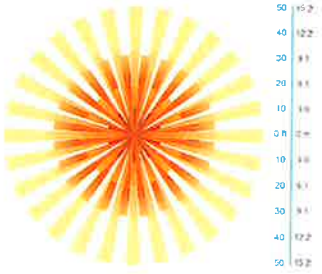


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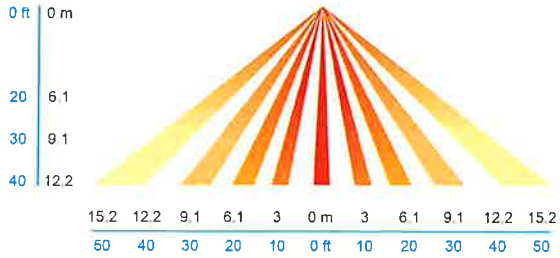
nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern
NLTAIR2 PIRHN





Top



Side

FEATURES & SPECIFICATIONS

INTENDED USE
The sleek design of the D-Series Area Size 2 reflects the embedded high performance LED technology. It is ideal for applications like car dealerships and large parking lots adjacent to malls, transit stations, grocery stores, home centers, and other big-box retailers.

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 driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 1.5G. 3G vibration rated available for (MA) mast arm mount when specifying option 3G. Low EPA (1.06 ft²) 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.

Coastal Construction (CCE)
Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS
Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K, or 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 2 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 L82/100,000 hrs 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).

INSTALLATION
Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

STANDARD CONTROLS
The DSX2 LED area luminaire has a number of control options. DSX Size 2, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensor with on-board photocells feature field-adjustable programing and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS
The DSX2 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.

LISTINGS
UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

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.

GOVERNMENT PROCUREMENT
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BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. 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.

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LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

Signature

Premium Die-Cast Architectural Emergency Light

AFF

FEATURES & SPECIFICATIONS

INTENDED USE — Ideal for applications requiring low-profile, attractive emergency lighting with Optional normally-off or normally-on with photocell control. Provides a minimum of 90 minutes of illumination both indoors and outdoors upon loss of AC power. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.

CONSTRUCTION — Compact, low-profile, architectural design with die-cast aluminum housing. Finishes are texturized powder coat paint for dark bronze, white, black and non-texturized for natural aluminum. Test switch indicator light and remote enabled are located on the bottom of the housing and are easily accessible and visible from the floor.

OPTICS —LEDs with L70 of 55,000 hours. Delivers 635 lumens in Normal-On and Emergency operation. Optional field configurable for wide and forward throw distribution **(U.S. Patent No. - US10236712 B2)**.

Outdoor wide throw distribution: 70' (3' path of egress) at a 7.5' mounting height with 1 FC Average.

4,000K correlated color temperature (CCT).

70 CRI.

ELECTRICAL — UVOLT (120 thru 347V, 50/60hz). Current-limiting charger maximizes battery life and minimizes energy consumption to provide low operating costs. Small battery chargers Certified in the CA Title 20 Appliance Efficiency Database

Short-circuit protection — current-limiting charger circuitry protects printed circuit board from shorts. Regulated charge voltage maintains a stable charge voltage over a wide range of line voltages.

Prevents over/undercharging that shortens battery life and reduces capacity. Filtered charger input minimizes charge voltage ripple and extends battery life.

Photocell option (PEL) for normally on product in order to discontinue illumination during periods when ambient light is present. Photocell option (PEL) for normally on products allow the user to force lamp illumination by user control (external switch). When power is not connected to switched line, illumination will respond to internal daylight sensor. For switched line applications, no other types of products shall be connected on the switched leg.

Remote units (OELR) are normally off. Emergency only functionality with DC power from an external battery.

BATTERY: Sealed, maintenance-free Lithium Iron Phosphate battery.

SELF-DIAGNOSTICS AND REMOTE TEST (SDRT OPTION): Automatic 24-hour recharge after a 90-minute discharge. Advanced electrical design provides constant light output throughout the entire discharge period for non-CW batteries. (For cold weather and cold temperature applications, the light may diminish though the discharge cycle). Brownout protection is automatically switched to emergency mode when supply voltage drops below approximately 80 percent nominal of 120, 220, 277 or 347. Other input voltages may vary. AC/LVD re-set allows battery connection before AC power is applied and prevents battery damage from deep discharge.

Self-Diagnostics: Continuously monitors AC functionality. Standard derangement monitoring will indicate disconnected battery, charger failure and displays green flashing indicator light while in emergency mode. Single multi-chromatic LED indicator to display two-state charging, test activation and three-state self-diagnostics.

Self-diagnostic testing: Five minutes every 30 days and 90 minutes annually. Diagnostic evaluation of lamps, AC to DC transfer, battery charging and condition of microprocessor. Automatic test is easily postponed for eight hours by activating manual test switch or use of remote tester (RTKIT accessory).

Manual testing: Test switch and remote tester (RTKIT accessory) provides manual activation of 60-second diagnostic testing for on-demand visual inspection. 90 minute manual testing can be enabled by pressing the test switch again while in test mode.

INSTALLATION — Wall mount: typically meets 7.5' to 14' mounting height from ground or floor. Power supplied by either mounting directly to a 4" square or 4" octagon j-box (wall mount) and accepts rigid or flex conduit.

LISTINGS — UL wet location listed standard at 32-122°F (0-50°C). Unit with CW battery(cold weather) listed for -22°F to 122°F (-30° to 50°C). Remote listed for -40°F to 122°F (-40° to 50°C). Meets or exceeds all applicable requirements for UL 924, NFPA 101 (current Life Safety code), NFPA 70 (NEC), NOM (Norma Oficial Mexicana), California Energy Commission Title 20 section 1605.3 (W)(4), FCC Title 47, Part 15, Subpart B and OSHA. List and labeled to comply with Canadian Standards C22.2 No. 141-10. Meets City of Chicago Code.

Government Procurement:
BAA - Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA - Build America Buy America: Product with a BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty (Battery is prorated). This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. 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.

† Small Battery Chargers Certified in the CA Title 20 Appliance Efficiency Database.



without photocell (white)



without photocell (natural aluminum)



with photocell (white)

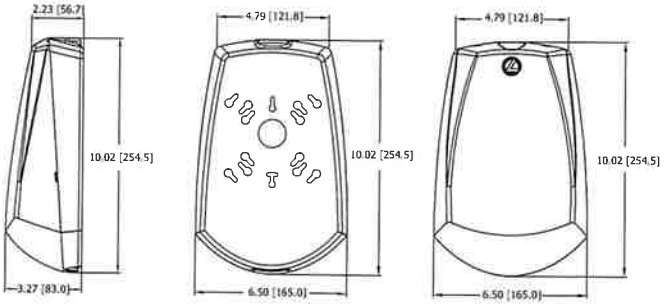


with photocell (dark bronze)

MOUNTING

All dimensions are inches (centimeters).
Shipping weight: 3.5 lbs. (1.59 kgs.)

Length: 6 1/2 (16.51)
Depth: 3 27/100 (8.30)
Height: 10 (25.45)
Weight : 3.5 lbs (1.59kg)



AFF Signature® Premium Die-Cast Architectural Emergency Light

SELF-POWERED MODELS

ORDERING INFORMATION For the shortest lead times, configure product using **bolded options.**

Example: AFF PEL DWHGXD UVOLT LTP SDRT WT

Series	Unit Type[1]	Housing Color	Voltage	Battery Type	Automatic Testing	Optics	Options
AFF Signature® Premium	**PEL** Photocell: Normally-ON with internal battery **OEL** Normally-OFF with internal battery	**DWHGXD** White textured **DBLBXD** Black textured **DNAXD** Natural aluminum **DDBTXD** Dark bronze textured	**UVOLT** 120-347VAC, 50/60Hz	**LTP** Lithium Iron Phosphate	**SDRT** Self-diagnostics remote test	**WT** Wide Throw **FCT** Field configurable throw[2]	**CW** Cold Weather (-30 - 50C) **BAA** Buy America(n) Act and/or Build America Buy America Qualified

Notes
1 AFF with internal battery is not remote capable.
2 FCT optics ships standard in the WT (wide throw) mode. Upon installation, configuration can be changed to the FCT mode.

REMOTE MODELS listed for -40°F to 122°F (-40° to 50°C)

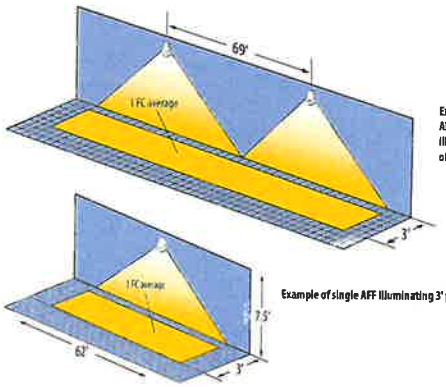
ORDERING INFORMATION For the shortest lead times, configure product using **bolded options.**

Example: AFF OELR DWHGXD WT

Series	Unit Type	Housing Color	Voltage	Optics	Options
AFF Signature® Premium	**OELR** Remote fixture, Normally OFF (requires external battery source)	**DWHGXD** White textured **DBLBXD** Black textured **DNAXD** Natural aluminum **DDBTXD** Dark bronze textured	**(blank)** Universal DC voltage (8-30VDC)	**WT** Wide Throw	BAA Buy America(n) Act and/or Build America Buy America Qualified

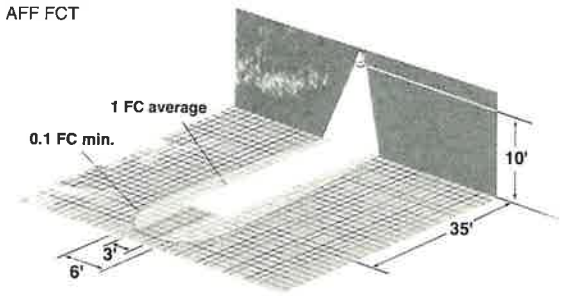
Accessories: *Order as separate catalog number.*	
RTKIT	Remote test kit, up to 40' away (includes goggles, laser and battery)

AFF SPACING GUIDELINES



Example of multiple AFF luminaries illuminating a 3' path of egress.

Example of single AFF illuminating 3' path of egress.



Maximum Spacing Guidelines - AFF (WT)

Mounting Height	Illumination Level	Single Luminaire		Multiple Luminaire		Application Notes *
		3' Path of Egress	6' Path of Egress	3' Path of Egress	6' Path of Egress	
7.5'	1FC Avg	62'	46'	69'	53'	200' Open Space 80/50/20 reflectances
10'		48'	34'	55'	46'	
12'		28'	22'	46'	41'	
14'		6'	N/A	38'	36'	

* Also meets the additional illumination requirements of NFPA 101: 1FC minimum and max/min ratio of 40:1.

Maximum Spacing Guidelines - AFF (FCT)

Mounting Height	Illumination Level	Single Luminaire		Application Notes *
		3' Path of Egress	6' Path of Egress	
7.5'	1FC Avg	24'	23'	200' Open Space 80/50/20 reflectances
10'		35'	35'	
12'		37'	31'	
14'		31'	N/A	

* Also meets the additional illumination requirements of NFPA 101: 1FC minimum and max/min ratio of 40:1.

EMERGENCY: One Lithonia Way, Conyers, GA 30012 Phone: 800-705-SERV (7378) techsupport-lig brands.com www.lithonia.com

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AFF Signature® Premium Die-Cast Architectural Emergency Light

SPECIFICATIONS

Electrical: Primary Circuit

Unit Type	Battery Type	Input Voltage(V)	Input Current(A)	Watts(W)
PEL WT	LTP	120-347	0.053-0.086	11.28
	LTP CW	120-347	0.089-0.167	20.39
PEL FCT	LTP	120-347	0.053-0.086	11.28
	LTP CW	120-347	0.089-0.167	20.39
OEL WT	LTP	120-347	0.025-0.032	2.50
	LTP CW	120-347	0.075-0.097	11.60
OEL FCT	LTP	120-347	0.025-0.032	2.50
	LTP CW	120-347	0.075-0.097	11.60
OELR WT	N/A	8-30	0.248 - 1.225	8.57*

*OELR watts data is in addition to the lamp heads on the product

BATTERY

Lithium Iron Phosphate					
Type	Voltage	Typical Shelf Life[1]	Typical Life[1]	Maintenance[2]	Temperature range[3,4]
STD	12.8V	1 year	6-8 years	none	32 - 122°F (0 - 50°C)
CW	12.8V	1 year	6-8 years	none	-22 - 122°F (-30 - 50°C)

Notes

1 At 77°F (25°C).

2 Battery life is negatively impacted by many variables including temperature, charging rates, number of cycles and deep discharges due to long periods of time without AC power.

3 All life safety equipment, including emergency lighting for path of egress must be maintained, serviced, and tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required maintenance, service, or testing could jeopardize the safety of occupants and will void all warranties.

4 Temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity. See option packages for expanded temperature ranges.

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LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

LDN6 STATIC WHITE

6" Open and Wallwash LED
Non-IC
New Construction Downlight





Open Trim



Wallwash Trim

FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.

CONSTRUCTION — Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches. Reflectors are retained by torsion springs.

Vertically adjustable mounting brackets with commercial bar hangers provide 3-3/4" total adjustment.

Two combination ½"-3/4" and four ½" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out). No. 12 AWG conductors, rated for 90°C.

Accommodates 12"-24" joist spacing.

Passive cooling thermal management for 25°C standard; high ambient (40°C) option available. Light engine and drivers are accessible from above or below ceiling.

Max ceiling thickness 1-1/2".

OPTICS — LEDs are binned to a 3-step MacAdam Ellipse; 80 CRI minimum. 90 CRI optional.

LED light source concealed with diffusing optical lens.

General illumination lighting with 1.0 S/MH and 55° cutoff to source and source image.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

Controls (Optional) —

- Luminaire can be equipped with interface for nLight wired, allowing it to communicate over an nLight network. Couple with nLight-enabled sensors, power packs, or WallPods using CAT-5 cabling to create an nLight Control Zone. Link Control Zone to a Gateway directly or via a Bridge for remote status monitoring and control using SensorView software.
- Luminaire can be equipped with interface for nLight Air, allowing it to communicate over the wireless nLight control platform. Can be paired to other luminaires and wall switches through CLAIRITY+, a mobile app, which allows individual fixture control.

UGR — UGR is zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg, per CIE 117-1996 Discomfort Glare in Interior Lighting.

ELECTRICAL — Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level available.

0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.

LUMEN MAINTENANCE — 70% lumen maintenance at 60,000 hours. L70/60,000 hours

LISTINGS — Certified to US and Canadian safety standards. Wet location standard (covered ceiling). IP55 rated. Drivers are RoHS compliant

GOVERNMENT PROCUREMENT — BAA – Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

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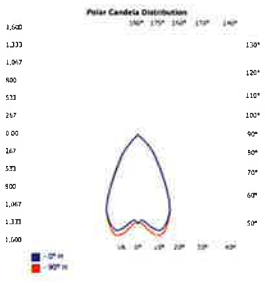
PERFORMANCE DATA

LDN6 3500K AR LSS 80CRI			
Nominal Lumens	**Lumens**	**Wattage**	**Lm/W**
500	527.9	5.8	90.5
750	758.1	8.9	85.1
1000	950.1	10.4	91.0
1500	1514	17.5	86.4
2000	2006	22.5	89.1
2500	2504	28.3	88.6
3000	3021	34.8	86.9
4000	4008	44.3	90.6
5000	4975	57.7	86.3

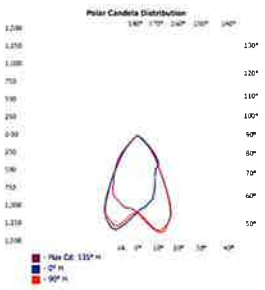
Notes

- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- CRI: 80 typical.

DISTRIBUTIONS



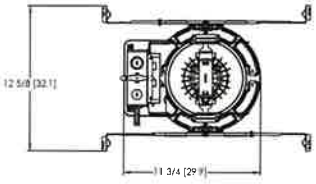
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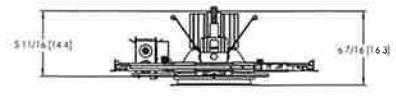


Wallwash

DIMENSIONS

LDN6 500-3000 Lumens





Aperture: Ø 6 1/4" [15.9]
Ceiling Cutout: Ø 7-1/8" [18.1] Self-flanged
Overlap Trim: Ø 7-1/2" [19.1]

See page 4 for other fixture dimensions

LDN6

Design Select options indicated by this color background.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: LDN6 35/15 L06 AR LSS MVOLT EZ10

LDN6							
Series	**Color temperature**	**Lumens ‡**	**Trim Style**	**Trim Color**	**Trim Finish**	**Flange Color ‡**	**Voltage**
LDN6 6" round	27/ 2700K	05 500 lumens	L06 Downlight	AR Clear	LSS Semi-specular	TRW White painted flange	MVOLT Multi-volt
	30/ 3000K	07 750 lumens	LW6 Wallwash	WR ‡ White	LD Matte diffuse	TRBL Black painted flange	120 120V
	35/ 3500K	10 1000 lumens		BR ‡ Black	LS Specular	FCPC Custom painted flange only	277 277V
	40/ 4000K	15 1500 lumens		TCPC ‡ Custom painted trim		FRALTBD RAL painted flange only	347 ‡ 347V
	50/ 5000K	20 2000 lumens		TRALTBD ‡ RAL painted trim			
		25 2500 lumens					
		30 3000 lumens					
		40 4000 lumens					
		50 5000 lumens					

Driver	Emergency ‡	Control Input ‡	Options
GZ10 0-10V driver dims to 10%	(blank) No Emergency Needed	(blank) No Control Input Needed	HAO ‡ High ambient option (40°C)
GZ1 0-10V driver dims to 1%	EL Battery pack (10W constant power), non-T20 compliant, integral test switch	SSAIR Wireless standalone embedded control by SensorSwitch	CP ‡ Chicago Plenum
D10 Minimum dimming 10% driver for use with SSAIR	ELR Battery pack (10W constant power), non-T20 compliant, remote test switch	NPP16D nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).	RRL___ RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to RRL for complete nomenclature. Available only in RRLA, RRLB, RRLAE, and RRLC12S.
D1 Minimum dimming 1% driver for use with SSAIR	ELSD Self-diagnostic battery pack (10W constant power), non-T20 compliant, integral test switch	NPP16DER nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.	BAA Buy America(n) Act and/or Build America Buy America Qualified
EZ1 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1%	ELRSD Self-diagnostic battery pack (10W constant power), non-T20 compliant, remote test switch	NPS80EZ nLight® dimming pack controls 0-10V eldoLED drivers (EZ1).	90CRI High CRI (90+)
EDAB eldoLED DALI SOLDRIVE dim to dark	E10WCP Battery pack (10W constant power), T20 compliant, integral test switch	NPS80EZER nLight® dimming pack controls 0-10V eldoLED drivers (EZ1). ER controls fixtures on emergency circuit.	SF ‡ Single fuse
	E10WCPR Battery pack (10W constant power), T20 compliant, remote test switch	N80 nLight™ Lumen Compensation	
	E10WRSTAR Emergency battery pack, 10W with remote test switch and Iota STAR technology	NLTAIR2 nLight® Air enabled	
		NLTAIRER2 nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit, not available with battery pack options	
		NLTAIREM2 nLight® AIR Dimming Pack Wireless Controls. UL924 Emergency Operation, via power interrupt detection. Available with battery pack options.	

‡ Option Value Ordering Restrictions

Option value	Restriction
Lumens	Overall height varies based on lumen package; refer to dimensional chart.
WR, BR	Not available with finishes.
347	Not available with emergency options.
SF	Must specify voltage 120V or 277V.
TRW, TRBL	Available with clear (AR) reflector only.
EL, ELR, ELSD, ELRSD, E10WCP, E10WCPR	12.5" of plenum depth or top access required for battery pack maintenance.
NPP16D, NPP16DER, NPS80EZ, NPS80EZER	Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed. See UL 924 Sequence of Operation table.
N80	Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZ ER. Only available with EZ1 drivers.
NLTAIR, NLTAIR2, NLTAIRER2, NLTAIREM2	Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options. Not recommended for metal ceiling installations.
HAO	Fixture height is 6.5" for all lumen packages with HAO.
CP	Must specify voltage for 3000lm and above. 5000lm with marked spacing 24 L x 24 W x 14 H. Not available with emergency battery pack option.
JOT	Must specify D10 or D1 driver. Not available with nLight options. Not available with CP. Not recommended for metal ceiling installation. Not for use with emergency backup power systems other than battery packs.
Reloc® Options	Refer to RRL specification sheet on acuitybrands.com for further details.
RRLAE	Commercial fixtures should disconnect the TSPL before unplugging the RRL so it does not go into discharge mode.
RRLC12S	RRLC12S option is to be used with the OnePass OCU, OCS, OD, OFC and OD for 0-24V integrated single-circuit or 0-10V low voltage controls applications. Not available with integral dimming sensors.
TRALTBD, FRALTBD	RALTBD for pricing only. Replace with applicable RAL number and finish when ready to order. See the RAL BROCHURE for available color options. Not available with TCPC or FCPC
TCPC, FCPC	CPC options for pricing only. Custom color chip needs to be sent in to your Customer Resolution specialist before order can be processed. Click HERE for more details. Not available with TRAL or FRAL
E10WRSTAR	Not available with wet location, EC1, EC6, QDS, CP, 347V, NPS80EZ ER, NLTAIRER2, NLTAIREM2, ALO3 & ALO4 w/DALI, OR 2000-4500 lumens w/SSAIR. Top access installation or 17.5" plenum clearance required for roomside installation. Not available with integral test switch

Accessories: *Order as separate catalog number.*

EAC ISSM 375	Compact interruptible emergency AC power system	SCA6	Sloped Ceiling Adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA6 10D
EAC ISSM 125	Compact interruptible emergency AC power system		
GRA68 JZ	Oversized trim ring with 8" outside diameter		

design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

(Maximum order quantity for design select lead times is 112.)

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LDN6

Emergency Battery Pack Options - Field Installable

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter / 2 Hour Runtime
ILB CP10 A	10W	90	1200	
ILBLP CP10 HE SD A+	10W	90	1200	Title 20, Self Diagnostic
ILBLP CP15 HE SD A+	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic
ILBHI CP10 HE SD A+	10W	90	1200	347-480V AC Input, Title 20, Self Diagnostic
ILBHI CP15 HE SD A+	15W	90	1800	347-480V AC Input, Title 20, Self Diagnostic

All the above are UL Listed products that are certified for field install external/remote to the fixture.
*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.
The CP10 delivered emergency illumination outperforms legacy 1400 lumen fluorescent emergency ballast.
Please contact us at techsupport@iotaengineering.com for any Emergency Battery related questions.

COMPATIBLE 0-10V WALL-MOUNT DIMMERS		
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE
Lutron®	Diva® DVTV	
	Diva® DVSCTV	
	Nova T® NTFTV	
	Nova® NFTV	
Leviton®	AWSMT-7DW	CN100
	AWSMG-7DW	PE300
	AMRMG-7DW	
	Leviton Centura Fluorescent Control System	
	IllumaTech® IP7 Series	
Synergy®	ISD BC	RDMFC
	SLD LPCS	
	Digital Equinox (DEQ BC)	
Douglas Lighting Controls	WPC-5721	
Entertainment Technology	Tap Glide TG600FAM120 (120V)	
	Tap Glide Heatsink TGH1500FAM120 (120V)	
	Oasis OA2000FAMU	
Honeywell	EL7315A1019	EL7305A1010 (optional)
	EL7315A1009	
HUNT Dimming	Preset slide: PS-010-IV and PS-010-WH	
	Preset slide: PS-010-3W-IV and PS-010-3W-WH	
	Preset slide, controls FD-010: PS-IFC-010-IV and PS-IFC-010-WH-120/277V	
	Preset slide, controls FD-010: PS-IFC-010-3W-IV and PS-IFC-010-3W-WH-120/277V	
	Remote mounted unit: FD-010	
Lehigh Electronic Products	Solitaire	PBX
PDM Electrical Products	WPC-5721	
Starfield Controls	TR61 with DALI interface port	RT03 DALInet Router
WattStopper®	LS-4 used with LCD-101 and LCD-103	

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provided consistent color appearance and out-of-the-box control capability with simple commissioning when used with Acuity Brands controls products.

All configurations of this luminaire are calibrated and tested meet the Acuity Brands' specification for chromatic consistency - including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates.

To learn more about A+, visit www.acuitybrands.com/aplus.

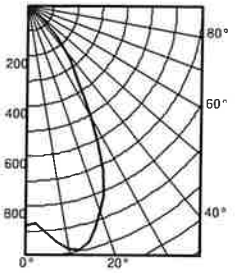
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LDN6

PHOTOMETRY

Distribution Curve | **Distribution Data** | **Output Data** | **Illuminance Data at 30" Above Floor for a Single Luminaire**

LDN6 35/10 L06AR, input watts: 10.44, delivered lumens: 987.10, LM/W = 94.54, spacing criterion at 0= 1.02, test no. ISF 30716P262.



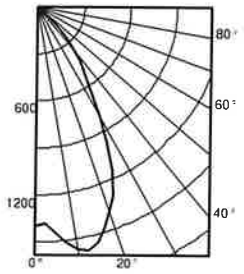
	Ave	Lumens
0	876	
5	905	89
15	971	269
25	720	322
35	330	214
45	110	87
55	1	4
65	1	1
75	0	0
85	0	0
90	0	

Zone	Lumens	% Lamp
0° - 30°	680.7	69.0
0° - 40°	895.0	90.7
0° - 60°	986.0	99.9
0° - 90°	987.0	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	987.0	*100.0

*Efficiency

Mounting Height	Inital FC Center Beam	50% beam - 54.5° Diameter	50% beam - 54.5° FC	10% beam - 82.2° Diameter	10% beam - 82.2° FC
8.0	29.0	5.7	14.5	9.6	2.9
10.0	15.6	7.7	7.8	13.1	1.6
12.0	9.7	9.8	4.9	16.6	1.0
14.0	6.6	11.8	3.3	20.1	0.7
16.0	4.8	13.9	2.4	23.6	0.5

LDN6 35/15 L06AR, input watts: 17.52, delivered lumens: 1572.9, LM/W = 89.77, spacing criterion at 0= 1.02, test no. ISF 30716P265.



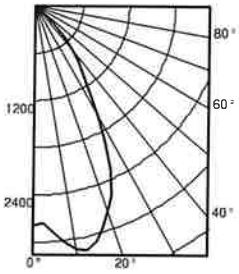
	Ave	Lumens
0	1396	
5	1442	142
15	1547	429
25	1147	514
35	526	342
45	176	139
55	2	6
65	1	1
75	1	1
85	0	0
90	0	

Zone	Lumens	% Lamp
0° - 30°	1084.6	69.0
0° - 40°	1426.2	90.7
0° - 60°	1571.3	99.9
0° - 90°	1572.9	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	1572.9	*100.0

*Efficiency

Mounting Height	Inital FC Center Beam	50% beam - 54.5° Diameter	50% beam - 54.5° FC	10% beam - 82.2° Diameter	10% beam - 82.2° FC
8.0	46.2	5.7	23.1	9.6	4.6
10.0	24.8	7.7	12.4	13.1	2.5
12.0	15.5	9.8	7.7	16.6	1.5
14.0	10.6	11.8	5.3	20.1	1.1
16.0	7.7	13.9	3.8	23.6	0.8

LDN6 35/30 L06AR, input watts: 34.75, delivered lumens: 3138.5, LM/W = 90.31, spacing criterion at 0= 1.02, test no. ISF 30716P274.



	Ave	Lumens
0	2786	
5	2877	284
15	3087	855
25	2289	1025
35	1049	682
45	350	277
55	5	12
65	2	2
75	1	1
85	0	0
90	0	

Zone	Lumens	% Lamp
0° - 30°	2164.3	69.0
0° - 40°	2845.9	90.7
0° - 60°	3135.3	99.9
0° - 90°	3138.5	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	3138.5	*100.0

*Efficiency

Mounting Height	Inital FC Center Beam	50% beam - 54.5° Diameter	50% beam - 54.5° FC	10% beam - 82.2° Diameter	10% beam - 82.2° FC
8.0	92.1	5.7	46.1	9.6	9.2
10.0	49.5	7.7	24.8	13.1	5.0
12.0	30.9	9.8	15.4	16.6	3.1
14.0	21.1	11.8	10.5	20.1	2.1
16.0	15.3	13.9	7.6	23.6	1.5

HOW TO ESTIMATE DELIVERED LUMENS IN EMERGENCY MODE

Use the formula below to estimate the delivered lumens in emergency mode

Delivered Lumens = 1.25 x P x LPW

P = Ouput power of emergency driver. P = 10W

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

The LPW rating is also available at Designlight Consortium.

LUMEN OUTPUT MULTIPLIERS - FINISH			
	Clear (AR)	**White (WR)**	**Black (BR)**
Specular (LS)	1.0	N/A	N/A
Semi-specular (LSS)	0.950	N/A	N/A
Matte diffuse (LD)	0.85	N/A	N/A
Painted	N/A	0.87	0.73

LUMEN OUTPUT MULTIPLIERS - CRI	
80	1.0
90	0.874

LUMEN OUTPUT MULTIPLIERS - CCT					
	2700K	**3000K**	**3500K**	**4000K**	**5000K**
80CRI	0.950	0.966	1.000	1.025	1.101

Notes

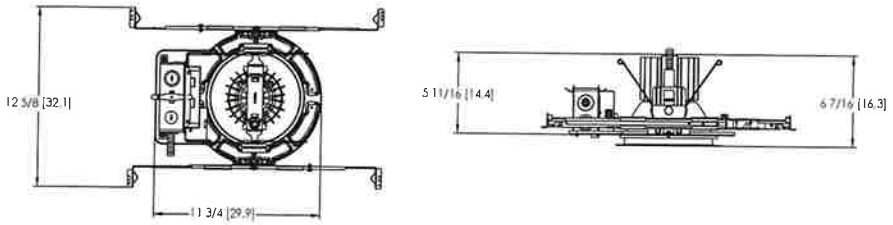
- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- CRI: 80 typical.

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LDN6

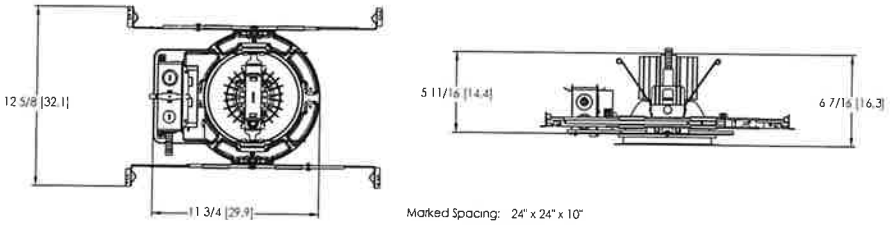
* All dimensions are inches (centimeters) unless otherwise noted.

LDN6 500-3000 Lumens



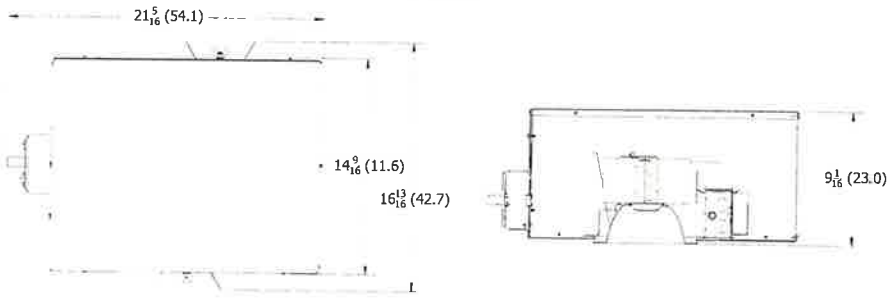
Aperture: Ø 6-1/4" [15.9]
Ceiling Cutout: Ø 7-1/8" [18.1] Self-flanged
Overlap Trim: Ø 7-1/2" [19.1]

LDN6 4000-5000 Lumens



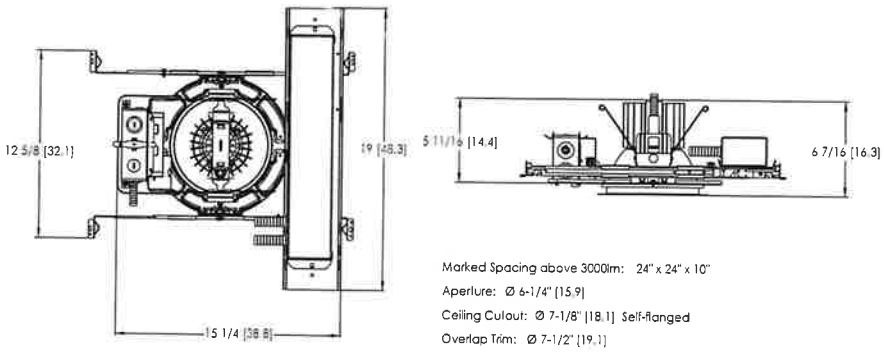
Marked Spacing: 24" x 24" x 10"
Aperture: Ø 6-1/4" [15.9]
Ceiling Cutout: Ø 7-1/8" [18.1] Self-flanged
Overlap Trim: Ø 7-1/2" [19.1]

LDN6 CP



Aperture: 6-1/4 (15.9)
Ceiling Opening: 7-1/8 (18.1)
Overlap Trim: 7-1/2 (19.1)

LDN6 EL



Marked Spacing above 3000lm: 24" x 24" x 10"
Aperture: Ø 6-1/4" [15.9]
Ceiling Cutout: Ø 7-1/8" [18.1] Self-flanged
Overlap Trim: Ø 7-1/2" [19.1]

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sensorswitch

Performance You Can Count On

SensorSwitch™ offers standalone wired and wireless lighting controls solutions designed for room-based applications. Our products offer reliable performance and ease of installation.

Sensorswitch.com

Wireless Embedded Controls



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Single Lighting Controls Platform for Indoor & Outdoor Spaces

nLight® is your networked lighting controls platform, for indoor and outdoor applications, providing wired or wireless options. Scaling from room to campus-wide applications, it is the one platform that grows with your business today and tomorrow; to seamlessly address energy cost optimization, building code compliance, improved occupant comfort, and much more. nLight also interfaces with DALI®, BACnet®, DMX and additional third-party devices.

nLightcontrols.com

Wired Embedded Controls



1. Install the luminaires with embedded controls
2. Install the nLight Wired wall switch
3. Connect the luminaires using standard CAT-5e cables and the controls devices will automatically discover each other and work (plug and play)

Wireless Embedded Controls



1. Install the luminaires with embedded controls
2. Install the nLight AIR battery-powered wall switch
3. Use CLAIRITY+ mobile app to pair the fixtures with the wall switch and if desired, customize the sensor settings

UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

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WST LED
Architectural Wall Sconce

Catalog Number

Notes

Type

Specifications

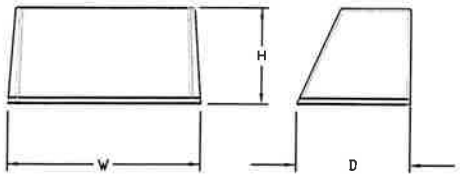
Luminaire

Height: 8-1/2" (21.59 cm)

Width: 17" (43.18 cm)

Depth: 10-3/16" (25.9 cm)

Weight: 20 lbs (9.1 kg)



Introduction

The WST LED is designed with the specifier in mind. The traditional, trapezoidal shape offers a soft, non-pixilated light source for end-user visual comfort. For emergency egress lighting, the WST LED offers six battery options, including remote. For additional code compliance and energy savings, there is also a Bi-level motion sensor option. With so many standard and optional features, three lumen packages, and high LPW, the WST LED is your "go to" luminaire for most any application.

A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: WST LED P1 40K VF MVOLT DDBTXD

WST LED

Series	Performance Package	Color temperature	Distribution	Voltage	Mounting
WST LED	P1 1,500 Lumen package P2 3,000 Lumen package P3 6,000 Lumen package	27K 2700 K 30K 3000 K 40K 4000 K 50K 5000 K	VF Visual comfort forward throw VW Visual comfort wide	MVOLT[1] 277[2] 120[2] 347[2] 208[2] 480[2] 240[2]	**Shipped included** (blank) Surface mounting bracket PBBW Premium surface-mounted back box[3,4] **Shipped separately** BBW Surface-mounted back box[3]

Options

NLTAIR2 PIR	nLIGHT AIR Wireless enabled motion/ambient sensor for 8'-15' mounting heights[5,6,7]
NLTAIR2 PIRH	nLIGHT AIR Wireless enabled motion/ambient sensor for 15'-30' mounting heights[5,6,7]
PE	Photoelectric cell, button type[8]
PER	NEMA twist-lock receptacle only (controls ordered separate)[9]
PER5	Five-wire receptacle only (controls ordered separate)[9]
PER7	Seven-wire receptacle only (controls ordered separate)[9]
PIR	Motion/Ambient Light Sensor, 8-15' mounting height[5,6]
PIR1FC3V	Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc[5,6]
PIRH	180° motion/ambient light sensor, 15-30' mounting height[5,6]
PIRH1FC3V	Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc[5,6]
SF	Single fuse (120, 277, 347V)[2]
DF	Double fuse (208, 240, 480V)[2]
DS	Dual switching[10]
DMG	0-10V dimming extend out back of housing for external control (control ordered separate)[11]
E7WC	Emergency battery backup, CA Title 20 Noncompliant (cold, 7W)[5,12]
E20WH	Emergency battery pack 18W constant power, Certified in CA Title 20 MAEDBS[7]
E20WC	Emergency battery pack -20°C 18W constant power, Certified in CA Title 20 MAEDBS[7,12]
LCE	Left side conduit entry[14]
RCE	Right side conduit entry[14]
BAA	Buy America(n) Act Compliant

Shipped separately

RBPW	Retrofit back plate[3]
VG	Vandal guard[15]
WG	Wire guard[15]

Finish *(required)*

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

See Accessories and Notes on next page.

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Accessories

Ordered and shipped separately.

WSTVCPBBW DDBXD U	Premium Surface - mounted back box
WSBBW DDBTXD U	Surface - mounted back box
RBPW DDBXD U	Retrofit back plate
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V)[15]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V)[15]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V)[15]

NOTES

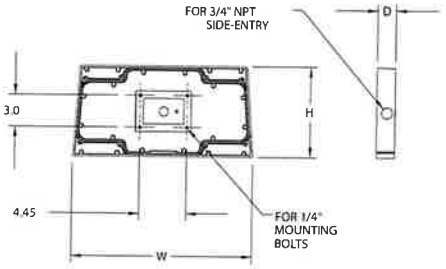
1 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
2 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
3 Also available as a separate accessory; see accessories information.
4 Top conduit entry standard.
5 Not available with VG or WG. See PER Table.
6 Reference Motion Sensor table.
7 Not available 347/480. E7WC or E23WHR, only available 120 or 277.
8 Need to specify 120, 208, 240 or 277 voltage.
9 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
10 Not available with Emergency options, PE or PER options.
11 DMG option not available with standalone or networked sensors/controls.
12 Battery pack rated for -20° to 40°C.
13 Not available with BBW.
14 Must order with fixture; not an accessory.
15 Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table.

Optional Back Box (PBBW)

Height: 8.49" (21.56 cm)

Width: 17.01" (43.21 cm)

Depth: 1.70" (4.32 cm)

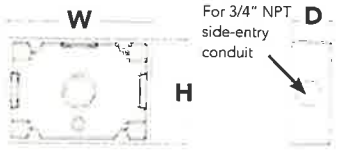


Optional Back Box (BBW)

Height: 4" (10.2 cm)

Width: 5-1/2" (14.0 cm)

Depth: 1-1/2" (3.8 cm)



Emergency Battery Operation

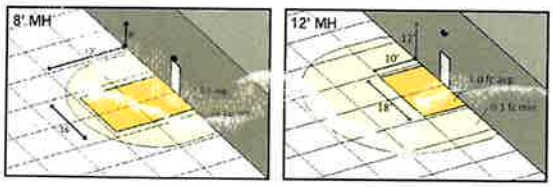
The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

All emergency backup configurations include an independent secondary driver with an integral relay to immediately detect AC power loss, meeting interpretations of NFPA 70/NEC 2008 - 700.16

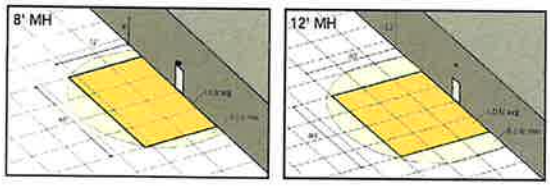
The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per International Building Code Section 1006 and NFPA 101 Life Safety Code Section 7.9, provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions.

The examples below show illuminance of 1 fc average and 0.1 fc minimum of the P1 power package and VF distribution product in emergency mode.

10' x 10' Gridlines
8' and 12' Mounting Height



WST LED P1 27K VF MVOLT E7WH



WST LED P2 40K VF MVOLT E20WH

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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	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	**77°F**	**1.00**
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.95	>0.92	>0.87

Electrical Load

Performance package	System Watts	Current (A)					
		120	208	240	277	347	480
P1	11	0.1	0.06	0.05	0.04	---	---
	14	---	---	---	---	0.04	0.03
P1 DS	14	0.12	0.07	0.06	0.06	---	---
P2	25	0.21	0.13	0.11	0.1	---	---
	30	---	---	---	---	0.09	0.06
P2 DS	25	0.21	0.13	0.11	0.1	---	---
P3	50	0.42	0.24	0.21	0.19	---	---
	56	---	---	---	---	0.16	0.12
P3 DS	52	0.43	0.26	0.23	0.21	---	---

Motion Sensor Default Settings

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

*for use with site wide Dusk to Dawn control

PER Table

Control	PER (3 wire)	PER5 (5 wire)		PER7 (7 wire)		
			Wire 4/Wire5		Wire 4/Wire5	Wire 6/Wire7
Photocontrol Only (On/Off)	✓	⚠	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM	⊘	✓	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM with Motion	⊘	⚠	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
Futureproof*	⊘	⚠	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture
Futureproof* with Motion	⊘	⚠	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture

✓ Recommended

⊘ Will not work

⚠ Alternate

*Futureproof means: Ability to change controls in the future.

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.

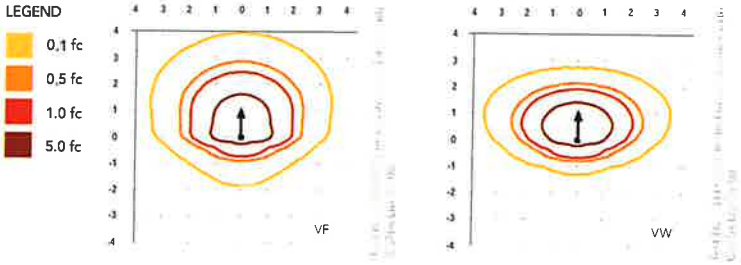
Performance Package	System Watts (MVOLT)	Dist. Type	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	12W	VF	1,494	0	0	0	125	1,529	0	0	0	127	1,639	0	0	0	137	1,639	0	0	0	137
		VW	1,513	0	0	0	126	1,548	0	0	0	129	1,659	0	0	0	138	1,660	0	0	0	138
P2	25W	VF	3,163	1	0	1	127	3,237	1	0	1	129	3,469	1	0	1	139	3,468	1	0	1	139
		VW	3,201	1	0	0	128	3,276	1	0	0	131	3,512	1	0	0	140	3,512	1	0	0	140
P3	50W	VF	6,025	1	0	1	121	6,165	1	0	1	123	6,609	1	0	1	132	6,607	1	0	1	132
		VW	6,098	1	0	1	122	6,240	1	0	1	125	6,689	1	0	1	134	6,691	1	0	1	134

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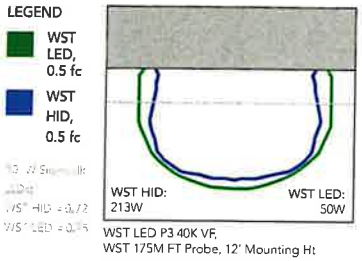
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's WST LED homepage.

Isofootcandle plots for the WST LED P3 40K VF and VW. Distances are in units of mounting height (10').



Distribution overlay comparison to 175W metal halide.



WST LED P3 40K VF,
WST 175M FT Probe, 12' Mounting Ht

FEATURES & SPECIFICATIONS

INTENDED USE
The classic architectural shape of the WST LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

CONSTRUCTION
The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

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. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS
Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WST LED 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(s) consist of 98 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 40°C, L87). Class 2 electronic driver has a power factor >90%, THD <20%. Easily-serviceable surge protection device meets a minimum Category B (per ANSI/IEEE C62.41.2).

INSTALLATION
A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections.

LISTINGS
CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. PIR and back box options are rated for wet location. Rated for -30°C to 40°C ambient.

GOVERNMENT PROCUREMENT
BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. 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.

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SINCE 1945 KEYSTONE LIGHT MADE EASY | SENTINEL WALL MOUNT CYLINDER | FormFIT optic swap | POWER SELECT COLOR SELECT

KT-CYLEDXXPS-XA-WDI-OSG-8CSB-VDIM-X

DIRECT/INDIRECT WALL MOUNT CYLINDER

DESCRIPTION

Wall Mount Cylinder | Power Select | Color Select | Direct and/or Indirect Lighting | Interchangeable Optics | 120-277V Input | Multiple Finish Options

APPLICATION

Functional and decorative up direct/indirect outdoor wall cylinder for entryway, façade, awning, and wall washer applications



UL CERTIFIED | RoHS Compliant | 10 YEAR LIMITED WARRANTY

PRODUCT FEATURES

- Keystone Power Select technology *(see PRODUCT SPECIFICATIONS for details)*
- Keystone Color Select technology (3000/4000/5000K)
- Screw-on cap and three sets of reflectors for easy optic swap (40° installed, 25° and 60° included)
- Easy-to-access dip switch for direct, indirect, or full illumination
- Compatible with slip-on shells in various finishes
- Built-in dusk-to-dawn photocell
- Die-cast aluminum housing in a modern aesthetic
- UL Certified, IP65 rated
- Ambient operating temperature: -40°C/-40°F - 45°C/113°F
- LED chip lifetime: L70 > 100,000 hrs @ 25°C/77°F ambient
- Rated life: 50,000 hours
- Meets FCC Part 15, Part B, Class A standards for conducted and radiated emissions



3" Cylinder Fixture Bronze



3" Cylinder Fixture White



3" Cylinder Fixture Black



4" Cylinder Fixture Bronze



4" Cylinder Fixture White



4" Cylinder Fixture Black



6" Cylinder Fixture Bronze



6" Cylinder Fixture White



6" Cylinder Fixture Black

SINCE 1945 KEYSTONE LIGHT MADE EASY | SENTINEL WALL MOUNT CYLINDER | FormFIT optic swap | POWER SELECT COLOR SELECT

KT-CYLEDXXPS-XA-WDI-OSG-8CSB-VDIM-X

DIRECT/INDIRECT WALL MOUNT CYLINDER

PRODUCT SPECIFICATIONS (SETTING: *FULL*)

FULL: 50% of total Power Select wattage DIRECT / 50% of Power Select wattage INDIRECT

Catalog Number	Selectable Wattage	Selectable CCT	Lumens	Efficacy	Input Voltage	Dimming	CRI	Optics	Light Direction Control
KT-CYLED36PS-6A-WDI-OSG-8CSB-VDIM KT-CYLED36PS-6A-WDI-OSG-8CSB-VDIM-W KT-CYLED36PS-6A-WDI-OSG-8CSB-VDIM-B	36W	3000K	3,050	85 lm/W	120–277V	0–10V	> 80	40° lens installed 25° and 60° included	
		4000K	3,100	86 lm/W					
		5000K	3,200	89 lm/W					
	28W	3000K	2,500	89 lm/W					
		4000K	2,700	96 lm/W					
		5000K	2,750	98 lm/W					
	21W	3000K	2,010	96 lm/W					
		4000K	2,150	102 lm/W					
		5000K	2,210	105 lm/W					
KT-CYLED20PS-4A-WDI-OSG-8CSB-VDIM KT-CYLED20PS-4A-WDI-OSG-8CSB-VDIM-W KT-CYLED20PS-4A-WDI-OSG-8CSB-VDIM-B	20W	3000K	1,840	92 lm/W	120–277V	0–10V	> 80	40° lens installed 25° and 60° included	
		4000K	1,950	98 lm/W					
		5000K	2,050	103 lm/W					
	16W	3000K	1,500	94 lm/W					
		4000K	1,570	98 lm/W					
		5000K	1,650	103 lm/W					
	12W	3000K	1,160	97 lm/W					
		4000K	1,220	102 lm/W					
		5000K	1,290	108 lm/W					
KT-CYLED10PS-3A-WDI-OSG-8CSB-VDIM KT-CYLED10PS-3A-WDI-OSG-8CSB-VDIM-W KT-CYLED10PS-3A-WDI-OSG-8CSB-VDIM-B	10W	3000K	965	97 lm/W	120-277V	0-10V	> 80	40° lens installed 25° and 60° included	
		4000K	1,000	100 lm/W					
		5000K	1,050	105 lm/W					
	8W	3000K	785	98 lm/W					
		4000K	810	101 lm/W					
		5000K	840	105 lm/W					
	6W	3000K	605	101 lm/W					
		4000K	620	103 lm/W					
		5000K	600	100 lm/W					

(*Product Specifications* continued on next page)

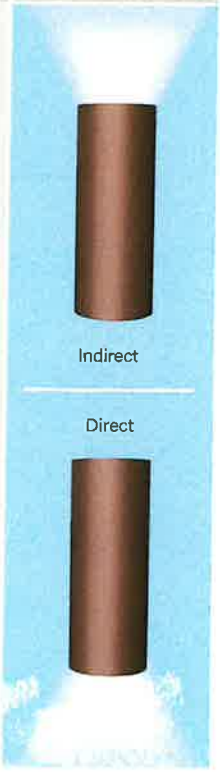
SINCE 1945 KEYSTONE LIGHT MADE EASY | SENTINEL WALL MOUNT CYLINDER | FormFIT optic swap | POWER SELECT COLOR SELECT

KT-CYLEDXXPS-XA-WDI-OSG-8CSB-VDIM-X

DIRECT/INDIRECT WALL MOUNT CYLINDER

PRODUCT SPECIFICATIONS (SETTING: *DIRECT OR INDIRECT*)

DIRECT: 50% of TOTAL Power Select wattage / INDIRECT: 50% of TOTAL Power Select wattage

Catalog Number	Selectable Wattage	Selectable CCT	Lumens	Efficacy	Input Voltage	Dimming	CRI	Optics	Light Direction Control
KT-CYLED36PS-6A-WDI-OSG-8CSB-VDIM KT-CYLED36PS-6A-WDI-OSG-8CSB-VDIM-W KT-CYLED36PS-6A-WDI-OSG-8CSB-VDIM-B	18W	3000K	1,525	85 lm/W	120–277V	0–10V	> 80	40° lens installed 25° and 60° included	
		4000K	1,550	86 lm/W					
		5000K	1,600	89 lm/W					
	14W	3000K	1,250	89 lm/W					
		4000K	1,350	96 lm/W					
		5000K	1,375	98 lm/W					
	10.5W	3000K	1,005	96 lm/W					
		4000K	1,075	102 lm/W					
		5000K	1,105	105 lm/W					
KT-CYLED20PS-4A-WDI-OSG-8CSB-VDIM KT-CYLED20PS-4A-WDI-OSG-8CSB-VDIM-W KT-CYLED20PS-4A-WDI-OSG-8CSB-VDIM-B	10W	3000K	920	92 lm/W	120–277V	0–10V	> 80	40° lens installed 25° and 60° included	Indirect Direct
		4000K	975	98 lm/W					
		5000K	1,025	103 lm/W					
	8W	3000K	750	94 lm/W					
		4000K	785	98 lm/W					
		5000K	825	103 lm/W					
	6W	3000K	580	97 lm/W					
		4000K	610	102 lm/W					
		5000K	645	108 lm/W					
KT-CYLED10PS-3A-WDI-OSG-8CSB-VDIM KT-CYLED10PS-3A-WDI-OSG-8CSB-VDIM-W KT-CYLED10PS-3A-WDI-OSG-8CSB-VDIM-B	5W	3000K	483	97 lm/W	120-277V	0-10V	> 80	40° lens installed 25° and 60° included	
		4000K	500	100 lm/W					
		5000K	525	105 lm/W					
	4W	3000K	393	98 lm/W					
		4000K	405	101 lm/W					
		5000K	420	105 lm/W					
	3W	3000K	303	101 lm/W					
		4000K	310	103 lm/W					
		5000K	300	100 lm/W					

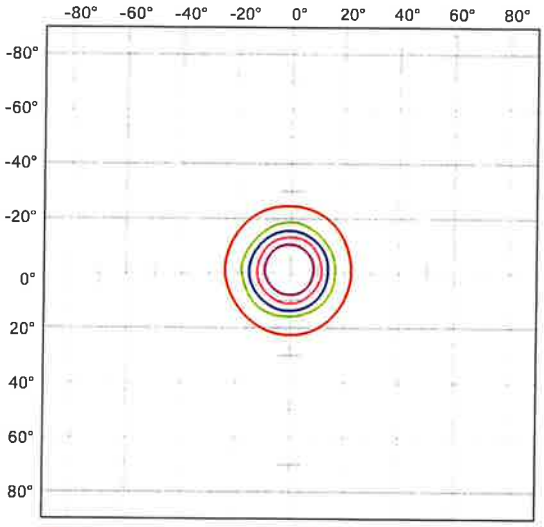
KEYSTONE SINCE 1945 LIGHT MADE EASY | SENTINEL WALL MOUNT CYLINDER | FormFIT opticswap | POWER SELECT COLOR SELECT

KT-CYLEDXXPS-XA-WDI-OSG-8CSB-VDIM-X

DIRECT/INDIRECT WALL MOUNT CYLINDER

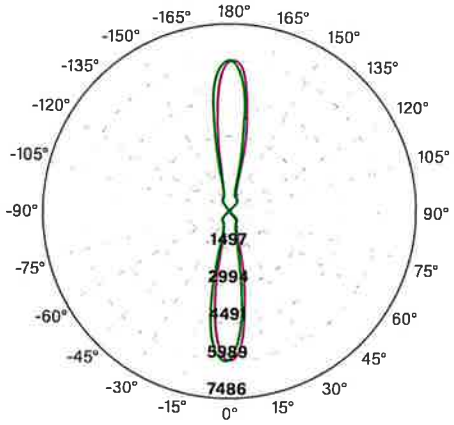
PHOTOMETRIC SPECIFICATIONS KT-CYLED36PS-6A-WDI-OSG-8CSB-VDIM (25° REFLECTOR WITH FULL ILLUMINATION)

ISOCANDELA PLOT



Cd: 599, 10%
Cd: 958, 16%
Cd: 1497, 25%
Cd: 2396, 40%
Cd: 3773, 63%
Point of Max Cd: 5989

LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%) : **22°**
Unit: **cd**

1 Violet C0-C180
2 Green C90-C270

FLUX DISTRIBUTION

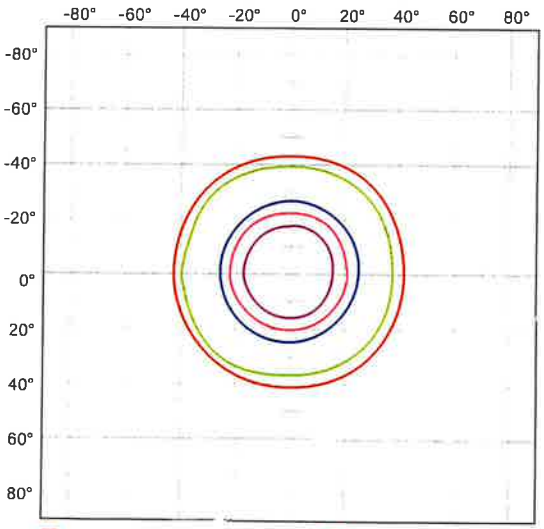
Zone	Lumens	% Luminaire
Forward Light	758 lm	23.4%
0°–30°	529 lm	16.3%
30°–60°	207 lm	6.4%
60°–80°	15 lm	0.5%
80°–90°	7 lm	0.2%
Back Light	862 lm	26.6%
0°–30°	605 lm	18.7%
30°–60°	234 lm	7.2%
60°–80°	15 lm	0.5%
80°–90°	7 lm	0.2%
Up Light	1623 lm	50.0%
90°–100°	13 lm	0.4%
100°–180°	1610 lm	49.6%

BUG* Rating	
Asymmetrical Luminare Types	
Type I, II, III, IV	B2 U5 G0
Quadrilateral Symmetrical Luminare Types	
Type V, Area Light	B2 U5 G0

** Backlight, Uplight, Glare*

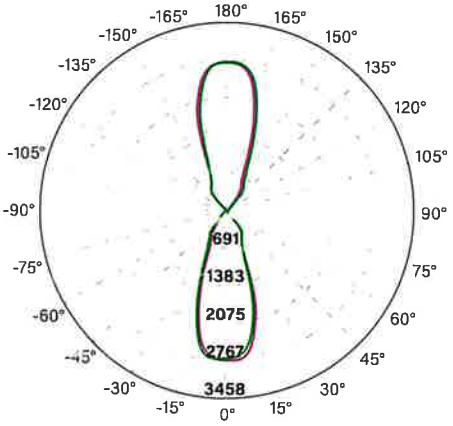
PHOTOMETRIC SPECIFICATIONS KT-CYLED36PS-6A-WDI-OSG-8CSB-VDIM (40° REFLECTOR WITH FULL ILLUMINATION)

ISOCANDELA PLOT



Cd: 277, 10%
Cd: 443, 16%
Cd: 692, 25%
Cd: 1107, 40%
Cd: 1743, 63%
Point of Max Cd: 2767

LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%) : **39°**
Unit: **cd**

1 Violet C0-C180
2 Green C90-C270

FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
Forward Light	779 lm	24.1%
0°–30°	563 lm	17.5%
30°–60°	210 lm	6.5%
60°–80°	4 lm	0.1%
80°–90°	1 lm	0.0%
Back Light	826 lm	25.6%
0°–30°	595 lm	18.4%
30°–60°	225 lm	7.0%
60°–80°	5 lm	0.1%
80°–90°	1 lm	0.0%
Up Light	1623 lm	50.3%
90°–100°	2 lm	0.1%
100°–180°	1621 lm	50.2%

BUG* Rating	
Asymmetrical Luminare Types	
Type I, II, III, IV	B2 U5 G0
Quadrilateral Symmetrical Luminare Types	
Type V, Area Light	B2 U5 G0

** Backlight, Uplight, Glare*

(*Photometric Specifications* continued on next page)

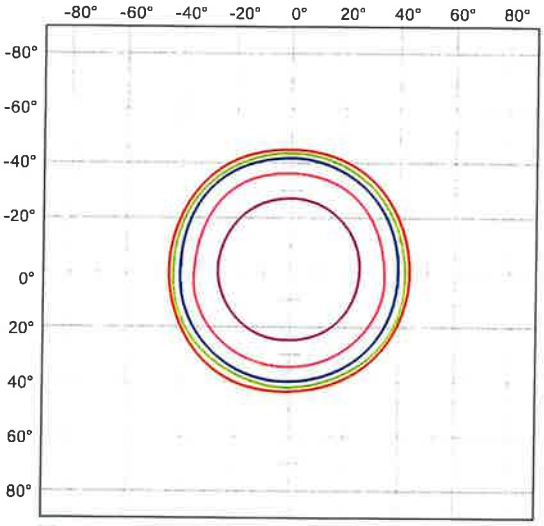
KEYSTONE SINCE 1945 LIGHT MADE EASY | SENTINEL WALL MOUNT CYLINDER | FormFIT optic swap | POWER SELECT COLOR SELECT

KT-CYLEDXXPS-XA-WDI-OSG-8CSB-VDIM-X

DIRECT/INDIRECT WALL MOUNT CYLINDER

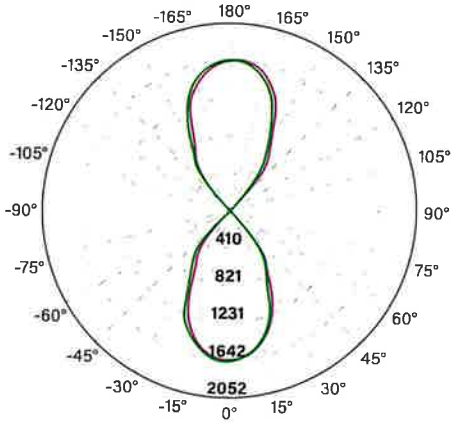
PHOTOMETRIC SPECIFICATIONS KT-CYLED36PS-6A-WDI-OSG-8CSB-VDIM (60° REFLECTOR WITH FULL ILLUMINATION)

ISOCANDELA PLOT



Cd: 164 10%
Cd: 263, 16%
Cd: 410, 25%
Point of Max Cd: 1642
Cd: 657, 40%
Cd: 1034, 63%

LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%) : **62°**
Unit: **cd**

1 Violet C0-C180
2 Green C90-C270

FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
Forward Light	783 lm	24.1%
0°–30°	522 lm	16.1%
30°–60°	255 lm	7.9%
60°–80°	6 lm	0.2%
80°–90°	0 lm	0.0%
Back Light	840 lm	25.9%
0°–30°	541 lm	16.7%
30°–60°	292 lm	9.0%
60°–80°	7 lm	0.2%
80°–90°	0 lm	0.0%
Up Light	1623 lm	50.0%
90°–100°	0 lm	0.0%
100°–180°	1623 lm	50.0%

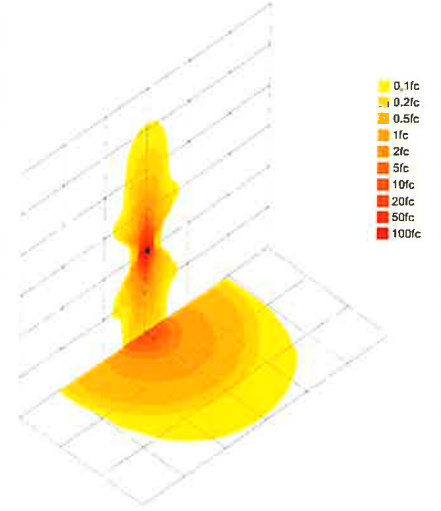
BUG* Rating	
Asymmetrical Luminare Types	
Type I, II, III, IV	B2 U5 G0
Quadrilateral Symmetrical Luminare Types	
Type V, Area Light	B2 U5 G0

** Backlight, Uplight, Glare*

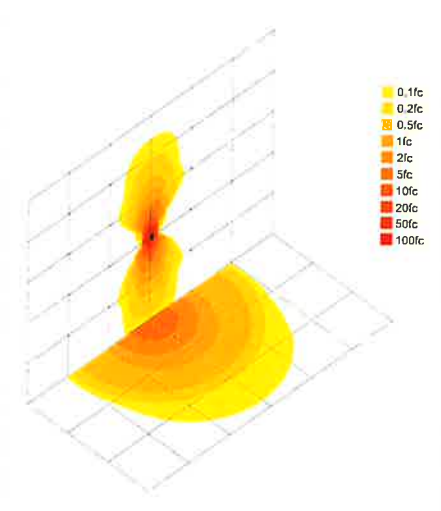
LIGHT DISTRIBUTION PATTERN

Photometric layouts for general reference only. Squares are 10ft x 10ft.
Charts account for 50% light reflectance. Actual light distribution may vary depending on wall material.

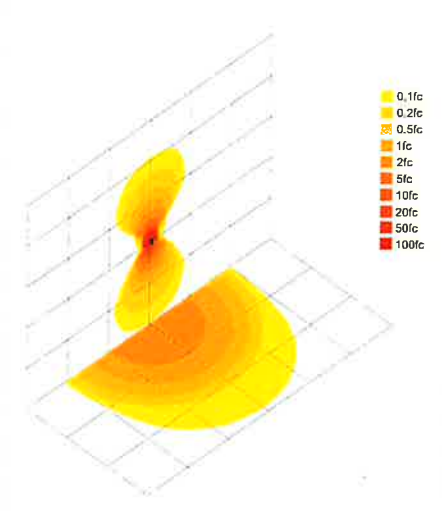
KT-CYLED36PS-6A-WDI-OSG-8CSB-VDIM
(20FT MOUNTING HEIGHT, 25°)



KT-CYLED36PS-6A-WDI-OSG-8CSB-VDIM
(20FT MOUNTING HEIGHT, 40°)



KT-CYLED36PS-6A-WDI-OSG-8CSB-VDIM
(20FT MOUNTING HEIGHT, 60°)



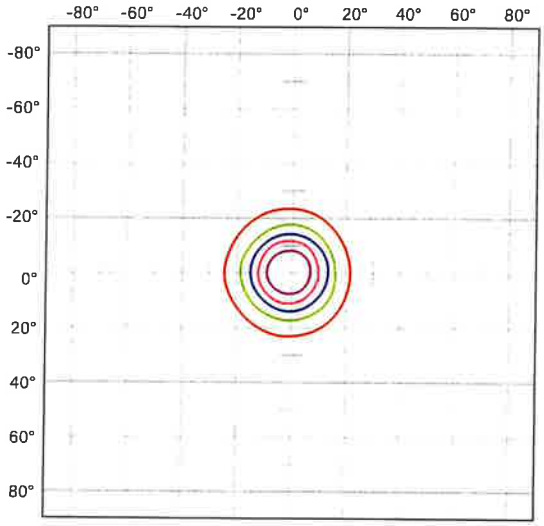
KEYSTONE SINCE 1945 LIGHT MADE EASY | SENTINEL WALL MOUNT CYLINDER | FormFIT opticswap | POWER SELECT COLOR SELECT

KT-CYLEDXXPS-XA-WDI-OSG-8CSB-VDIM-X

DIRECT/INDIRECT WALL MOUNT CYLINDER

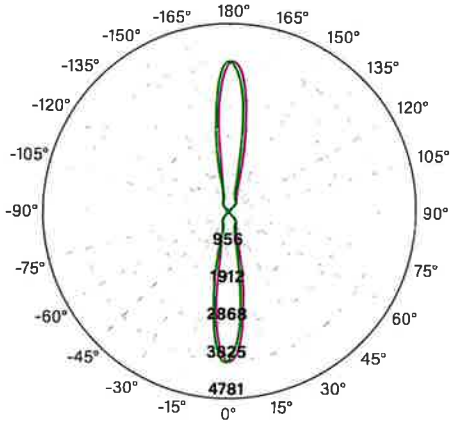
PHOTOMETRIC SPECIFICATIONS KT-CYLED20PS-4A-WDI-OSG-8CSB-VDIM (25° REFLECTOR WITH FULL ILLUMINATION)

ISOCANDELA PLOT



Cd: 382, 10%
Cd: 612, 16%
Cd: 956, 25%
Cd: 1530, 40%
Cd: 2410, 63%
Point of Max Cd: 3825

LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%) : **20°**
Unit: **cd**

1 Violet C0-C180
2 Green C90-C270

FLUX DISTRIBUTION

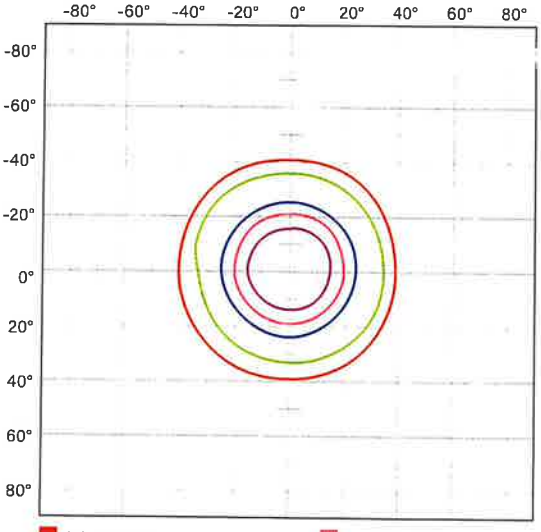
Zone	Lumens	% Luminaire
Forward Light	471 lm	24.8%
0°–30°	331 lm	17.4%
30°–60°	119 lm	6.3%
60°–80°	14 lm	0.7%
80°–90°	7 lm	0.4%
Back Light	488 lm	25.7%
0°–30°	346 lm	18.2%
30°–60°	122 lm	6.4%
60°–80°	14 lm	0.7%
80°–90°	6 lm	0.3%
Up Light	939 lm	49.5%
90°–100°	10 lm	0.5%
100°–180°	929 lm	48.9%

BUG* Rating	
Asymmetrical Luminare Types	
Type I, II, III, IV	B1 U4 G0
Quadrilateral Symmetrical Luminare Types	
Type V, Area Light	B1 U4 G0

** Backlight, Uplight, Glare*

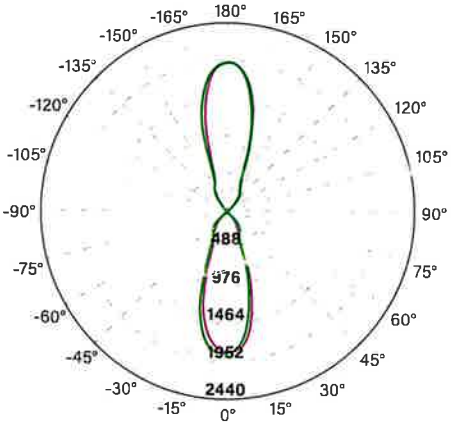
PHOTOMETRIC SPECIFICATIONS KT-CYLED20PS-4A-WDI-OSG-8CSB-VDIM (40° REFLECTOR WITH FULL ILLUMINATION)

ISOCANDELA PLOT



Cd: 195, 10%
Cd: 312, 16%
Cd: 488, 25%
Cd: 781, 40%
Cd: 1230, 63%
Point of Max Cd: 1952

LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%) : **36°**
Unit: **cd**

1 Violet C0-C180
2 Green C90-C270

FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
Forward Light	459 lm	23.6%
0°–30°	343 lm	17.6%
30°–60°	111 lm	5.7%
60°–80°	4 lm	0.2%
80°–90°	1 lm	0.1%
Back Light	521 lm	26.8%
0°–30°	384 lm	19.7%
30°–60°	132 lm	6.8%
60°–80°	4 lm	0.2%
80°–90°	1 lm	0.1%
Up Light	967 lm	49.7%
90°–100°	2 lm	0.1%
100°–180°	965 lm	49.6%

BUG* Rating	
Asymmetrical Luminare Types	
Type I, II, III, IV	B1 U4 G0
Quadrilateral Symmetrical Luminare Types	
Type V, Area Light	B1 U4 G0

** Backlight, Uplight, Glare*

(*Photometric Specifications* continued on next page)

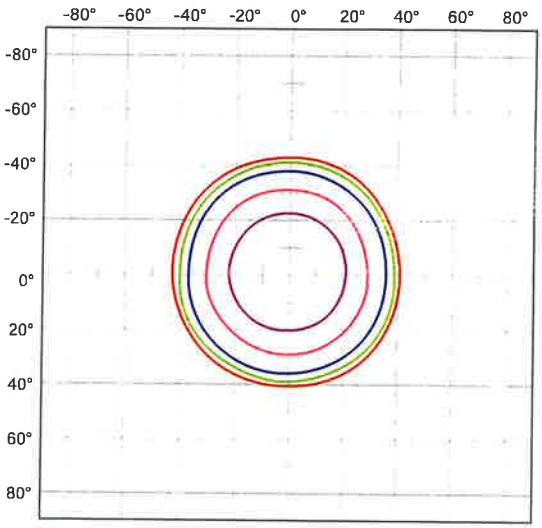
SINCE 1945 KEYSTONE LIGHT MADE EASY | SENTINEL WALL MOUNT CYLINDER | FormFIT optic swap | POWER SELECT COLOR SELECT

KT-CYLEDXXPS-XA-WDI-OSG-8CSB-VDIM-X

DIRECT/INDIRECT WALL MOUNT CYLINDER

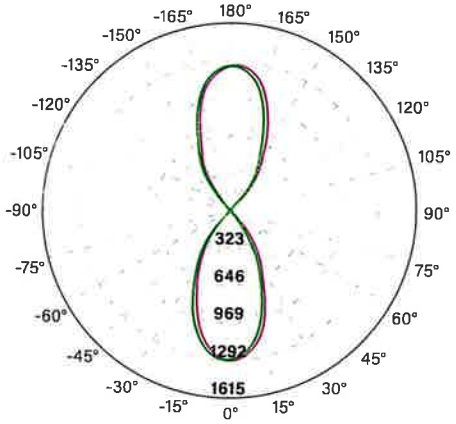
PHOTOMETRIC SPECIFICATIONS KT-CYLED20PS-4A-WDI-OSG-8CSB-VDIM (60° REFLECTOR WITH FULL ILLUMINATION)

ISOCANDELA PLOT



Cd: 129, 10%
Cd: 207, 16%
Cd: 323, 25%
Point of Max Cd: 1292
Cd: 517, 40%
Cd: 814, 63%

LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%) : **52°**
Unit: **cd**

1 Violet C0-C180
2 Green C90-C270

FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
Forward Light	483 lm	24.2%
0°–30°	352 lm	17.6%
30°–60°	129 lm	6.5%
60°–80°	2 lm	0.1%
80°–90°	0 lm	0.0%
Back Light	523 lm	26.2%
0°–30°	369 lm	18.5%
30°–60°	152 lm	7.6%
60°–80°	2 lm	0.1%
80°–90°	0 lm	0.0%
Up Light	991 lm	49.6%
90°–100°	0 lm	0.0%
100°–180°	991 lm	49.6%

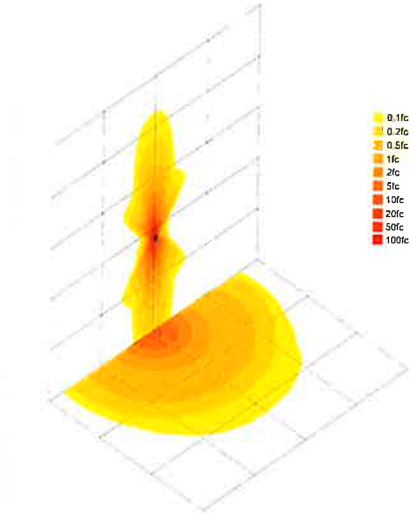
BUG* Rating	
Asymmetrical Luminare Types	
Type I, II, III, IV	B1 U4 G0
Quadrilateral Symmetrical Luminare Types	
Type V, Area Light	B1 U4 G0

** Backlight, Uplight, Glare*

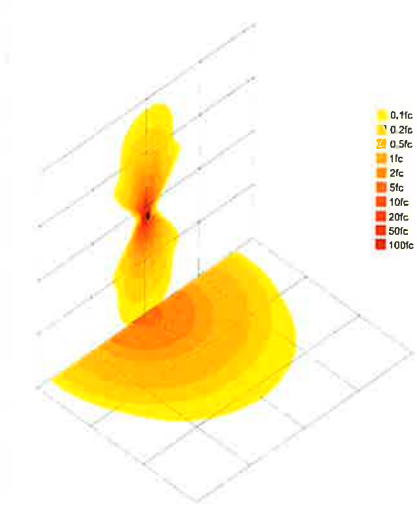
LIGHT DISTRIBUTION PATTERN

Photometric layouts for general reference only. Squares are 10ft x 10ft.
Charts account for 50% light reflectance. Actual light distribution may vary depending on wall material.

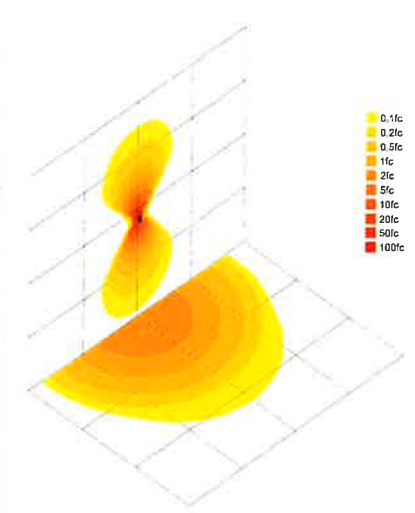
KT-CYLED20PS-4A-WDI-OSG-8CSB-VDIM
(18FT MOUNTING HEIGHT, 25°)



KT-CYLED20PS-4A-WDI-OSG-8CSB-VDIM
(18FT MOUNTING HEIGHT, 40°)



KT-CYLED20PS-4A-WDI-OSG-8CSB-VDIM
(18FT MOUNTING HEIGHT, 60°)



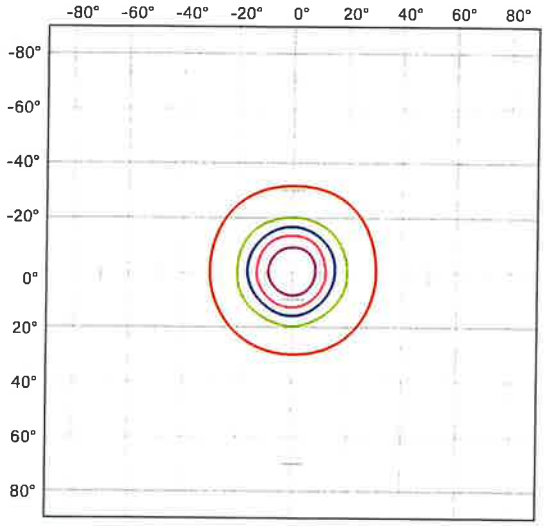
KEYSTONE SINCE 1945 LIGHT MADE EASY | SENTINEL WALL MOUNT CYLINDER | FormFIT opticswap | POWER SELECT COLOR SELECT

KT-CYLEDXXPS-XA-WDI-OSG-8CSB-VDIM-X

DIRECT/INDIRECT WALL MOUNT CYLINDER

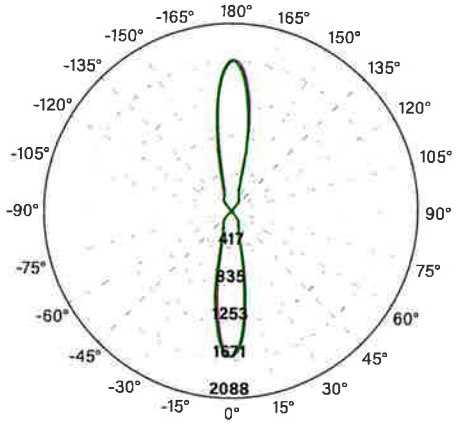
PHOTOMETRIC SPECIFICATIONS KT-CYLED10PS-3A-WDI-OSG-8CSB-VDIM (25° REFLECTOR WITH FULL ILLUMINATION)

ISOCANDELA PLOT



Cd: 167, 10%
Cd: 267, 16%
Cd: 418, 25%
Cd: 668, 40%
Cd: 1053, 63%
Point of Max Cd: 1671

LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%) : **22°**
Unit: **cd**

1 Violet C0-C180
2 Green C90-C270

FLUX DISTRIBUTION

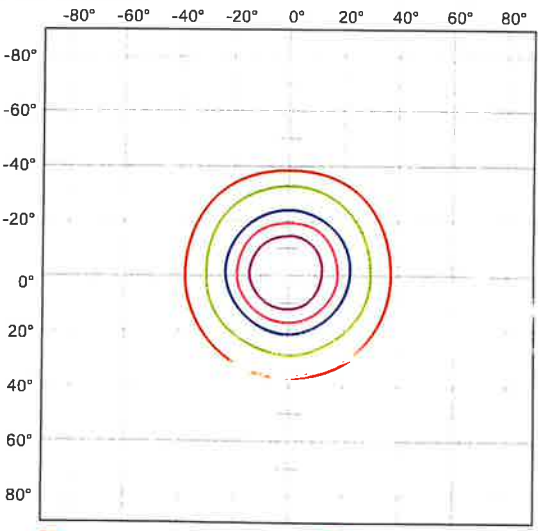
Zone	Lumens	% Luminaire
Forward Light	229 lm	24.5%
0°–30°	174 lm	18.6%
30°–60°	52 lm	5.6%
60°–80°	2 lm	0.2%
80°–90°	1 lm	0.1%
Back Light	230 lm	24.6%
0°–30°	174 lm	18.6%
30°–60°	52 lm	5.6%
60°–80°	2 lm	0.2%
80°–90°	1 lm	0.1%
Up Light	477 lm	50.9%
90°–100°	2 lm	0.2%
100°–180°	475 lm	50.8%

BUG* Rating	
Asymmetrical Luminare Types	
Type I, II, III, IV	B1 U3 G0
Quadrilateral Symmetrical Luminare Types	
Type V, Area Light	B1 U3 G0

** Backlight, Uplight, Glare*

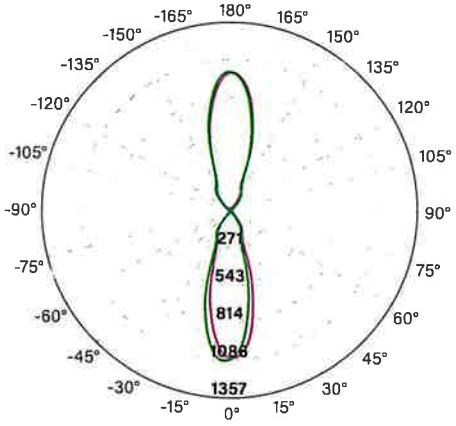
PHOTOMETRIC SPECIFICATIONS KT-CYLED10PS-3A-WDI-OSG-8CSB-VDIM (40° REFLECTOR WITH FULL ILLUMINATION)

ISOCANDELA PLOT



Cd: 109, 10%
Cd: 174, 16%
Cd: 271, 25%
Cd: 434, 40%
Cd: 684, 63%
Point of Max Cd: 1086

LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%) : **33°**
Unit: **cd**

1 Violet C0-C180
2 Green C90-C270

FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
Forward Light	215 lm	22.8%
0°–30°	166 lm	17.6%
30°–60°	46 lm	4.9%
60°–80°	2 lm	0.2%
80°–90°	1 lm	0.1%
Back Light	257 lm	27.1%
0°–30°	195 lm	20.6%
30°–60°	59 lm	6.2%
60°–80°	2 lm	0.2%
80°–90°	1 lm	0.1%
Up Light	474 lm	50.1%
90°–100°	2 lm	0.2%
100°–180°	472 lm	49.9%

BUG* Rating	
Asymmetrical Luminare Types	
Type I, II, III, IV	B1 U3 G0
Quadrilateral Symmetrical Luminare Types	
Type V, Area Light	B1 U3 G0

** Backlight, Uplight, Glare*

(*Photometric Specifications* continued on next page)

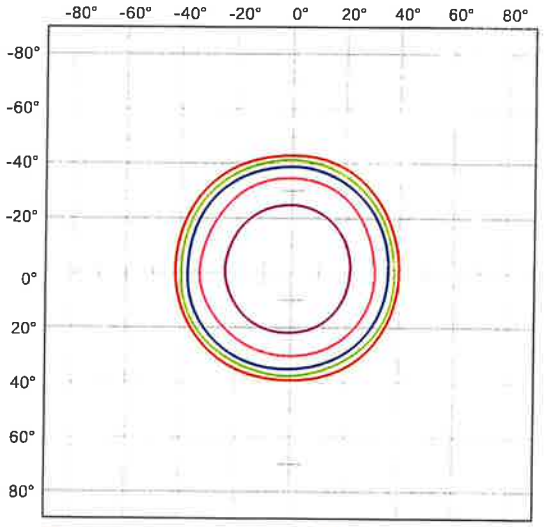
KEYSTONE SINCE 1945 LIGHT MADE EASY | SENTINEL WALL MOUNT CYLINDER | FormFIT optic swap | POWER SELECT COLOR SELECT

KT-CYLEDXXPS-XA-WDI-OSG-8CSB-VDIM-X

DIRECT/INDIRECT WALL MOUNT CYLINDER

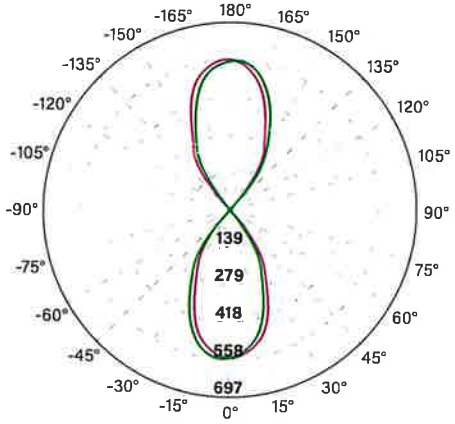
PHOTOMETRIC SPECIFICATIONS KT-CYLED10PS-3A-WDI-OSG-8CSB-VDIM (60° REFLECTOR WITH FULL ILLUMINATION)

ISOCANDELA PLOT



Cd: 56, 10%
Cd: 89, 16%
Cd: 139, 25%
Point of Max Cd: 558
Cd: 223, 40%
Cd: 352, 63%

LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%) : **56°**
Unit: **cd**

1 Violet C0-C180
2 Green C90-C270

FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
Forward Light	213 lm	23.1%
0°–30°	159 lm	17.2%
30°–60°	54 lm	5.9%
60°–80°	1 lm	0.1%
80°–90°	0 lm	0.0%
Back Light	243 lm	26.3%
0°–30°	169 lm	18.4%
30°–60°	72 lm	7.8%
60°–80°	1 lm	0.1%
80°–90°	0 lm	0.0%
Up Light	466 lm	50.6%
90°–100°	0 lm	0.2%
100°–180°	466 lm	50.6%

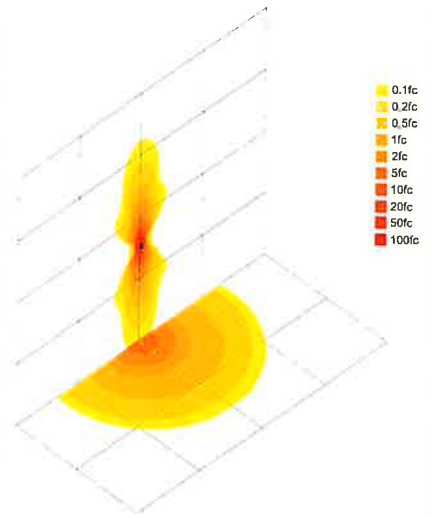
BUG* Rating	
Asymmetrical Luminare Types	
Type I, II, III, IV	B1 U3 G0
Quadrilateral Symmetrical Luminare Types	
Type V, Area Light	B1 U3 G0

** Backlight, Uplight, Glare*

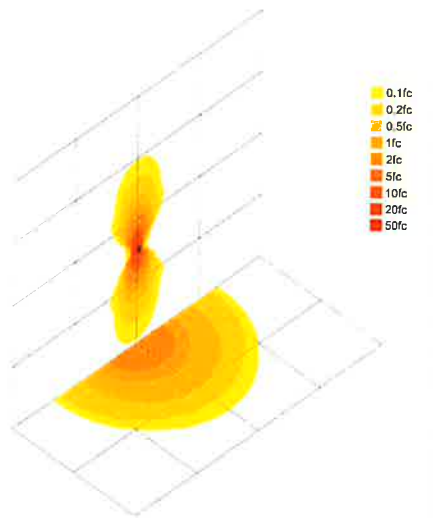
LIGHT DISTRIBUTION PATTERN

Photometric layouts for general reference only. Squares are 10ft x 10ft.
Charts account for 50% light reflectance. Actual light distribution may vary depending on wall material.

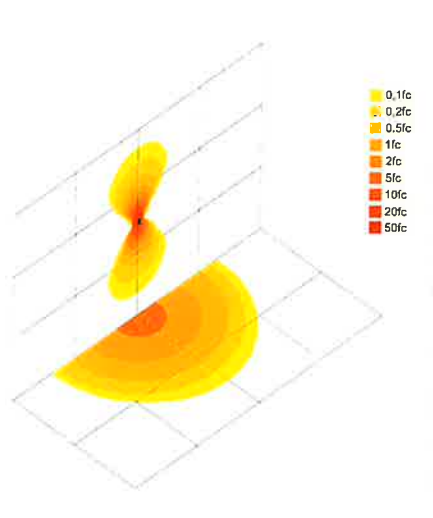
KT-CYLED10PS-3A-WDI-OSG-8CSB-VDIM
(15FT MOUNTING HEIGHT, 25˚)



KT-CYLED10PS-3A-WDI-OSG-8CSB-VDIM
(15FT MOUNTING HEIGHT, 40˚)



KT-CYLED10PS-3A-WDI-OSG-8CSB-VDIM
(15FT MOUNTING HEIGHT, 60˚)



SINCE 1945 KEYSTONE LIGHT MADE EASY | SENTINEL WALL MOUNT CYLINDER | FormFIT optic swap | POWER SELECT COLOR SELECT

KT-CYLEDXXPS-XA-WDI-OSG-8CSB-VDIM-X

DIRECT/INDIRECT WALL MOUNT CYLINDER

ACCESSORIES

Note: *All shell options are available for 3", 4", and 6" fixure sizes. See last page for ordering details.*

BRONZE FIXTURE WITH SHELL



WHITE FIXTURE WITH SHELL



BLACK FIXTURE WITH SHELL



SINCE 1945 KEYSTONE LIGHT MADE EASY | SENTINEL WALL MOUNT CYLINDER | FormFIT opticswap | POWER SELECT COLOR SELECT

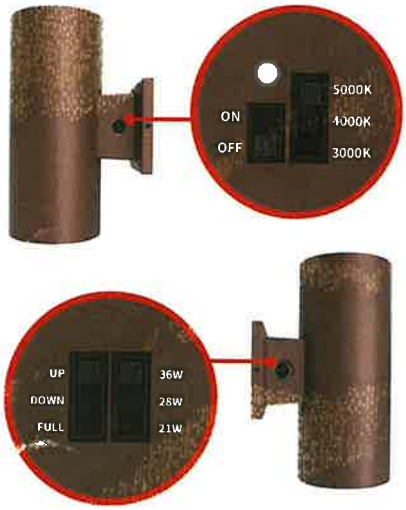
KT-CYLEDXXPS-XA-WDI-OSG-8CSB-VDIM-X

DIRECT/INDIRECT WALL MOUNT CYLINDER

REFLECTOR REPLACEMENT



WATTAGE, CCT, PHOTOCELL, AND DIRECTION SELECTION



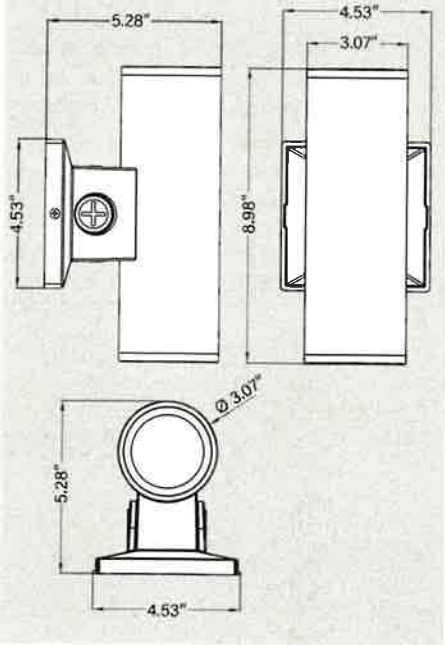
FORM FIT SHELL ACCESSORY



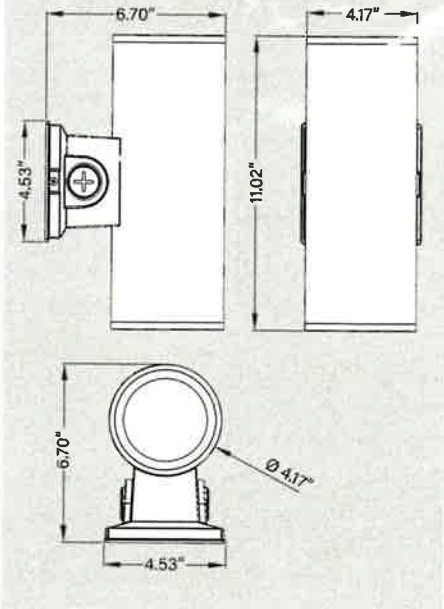
Note: *Fixtures are factory preset to their highest wattage and CCT values. Photocell preset to: ON. Direct/Indirect/Full preset to: Full*

PHYSICAL SPECIFICATIONS

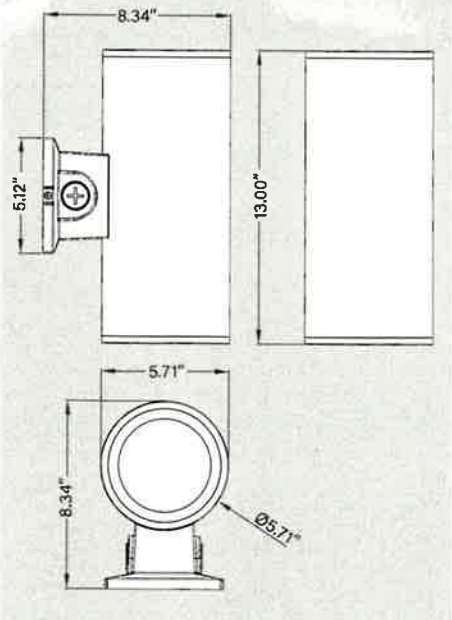
KT-CYLED10PS-3A-WDI-OSG-8CSB-VDIM



KT-CYLED20PS-4A-WDI-OSG-8CSB-VDIM



KT-CYLED36PS-6A-WDI-OSG-8CSB-VDIM



(*Physical Specifications* continued on next page)

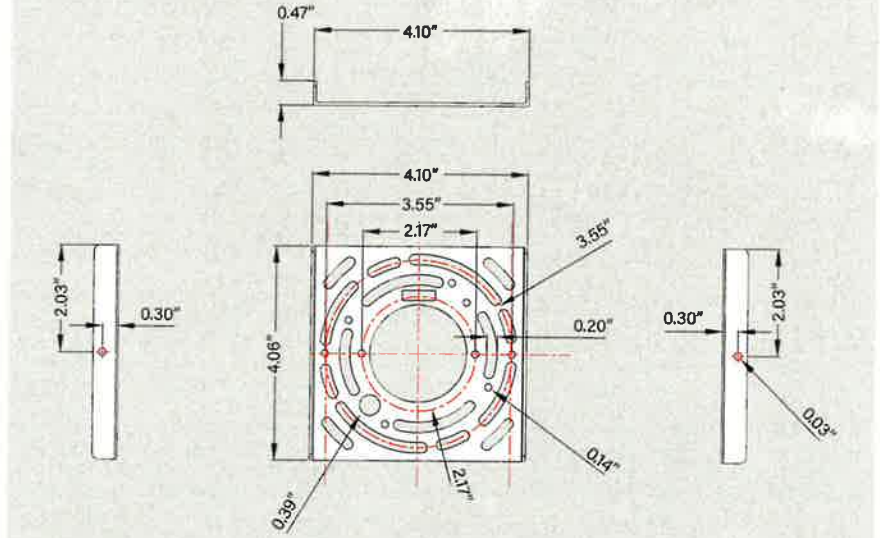
SINCE 1945 KEYSTONE LIGHT MADE EASY | SENTINEL WALL MOUNT CYLINDER | FormFIT opticswap | POWER SELECT COLOR SELECT

KT-CYLEDXXPS-XA-WDI-OSG-8CSB-VDIM-X

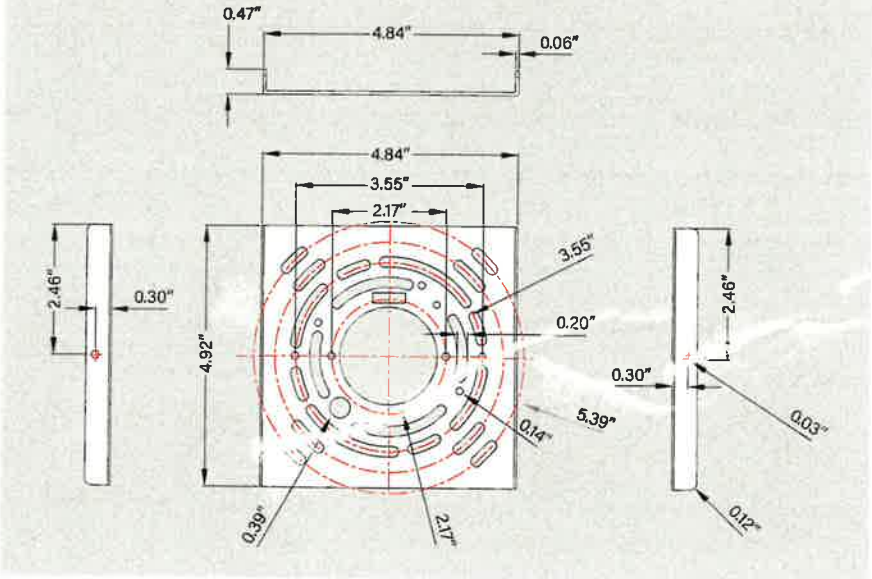
DIRECT/INDIRECT WALL MOUNT CYLINDER

PHYSICAL SPECIFICATIONS (continued)

3" & 4" MOUNTING PLATE



6" MOUNTING PLATE



KEYSTONE SINCE 1945 LIGHT MADE EASY | SENTINEL WALL MOUNT CYLINDER | FormFIT opticswap | POWER SELECT COLOR SELECT

KT-CYLEDXXPS-XA-WDI-OSG-8CSB-VDIM-X

DIRECT/INDIRECT WALL MOUNT CYLINDER

ACCESSORIES

SHELLS

Field-Installable / Field-Use ONLY (purchased separately)

CATALOG NUMBER	DESCRIPTION	HOUSING COLOR	UPC	EASY CODE
KT-CYLED-6A-SQ-1-KIT	Square shell | Used on 6" wall mount cylinders	Bronze	843654162645	UME-71
KT-CYLED-6A-SQ-1-KIT-W	Square shell | Used on 6" wall mount cylinders	White	843654162652	QFQ-38
KT-CYLED-6A-SQ-1-KIT-B	Square shell | Used on 6" wall mount cylinders	Black	843654162669	JHI-09
KT-CYLED-6A-SQ-1-KIT-U*	Square shell | Used on 6" wall mount cylinders	Unpainted	843654162676	LJE-49
KT-CYLED-4A-SQ-1-KIT	Square shell | Used on 4" wall mount cylinders	Bronze	843654162683	DVY-80
KT-CYLED-4A-SQ-1-KIT-W	Square shell | Used on 4" wall mount cylinders	White	843654162690	NGA-14
KT-CYLED-4A-SQ-1-KIT-B	Square shell | Used on 4" wall mount cylinders	Black	843654162706	KBJ-66
KT-CYLED-4A-SQ-1-KIT-U*	Square shell | Used on 4" wall mount cylinders	Unpainted	843654162713	CUL-90
KT-CYLED-3A-SQ-1-KIT	Square shell | Used on 3" wall mount cylinders	Bronze	843654162720	RJL-53
KT-CYLED-3A-SQ-1-KIT-W	Square shell | Used on 3" wall mount cylinders	White	843654162737	OSP-12
KT-CYLED-3A-SQ-1-KIT-B	Square shell | Used on 3" wall mount cylinders	Black	843654162744	ZOK-59
KT-CYLED-3A-SQ-1-KIT-U*	Square shell | Used on 3" wall mount cylinders	Unpainted	843654162751	AOW-72

Shell is unpainted. Custom color available. Must provide specific Pantone or RAL number. Lead times apply.



Square shell for cylinder
KT-CYLED-XA-SQ-1-KIT-X

REFLECTORS

Field-Installable / Field-Use ONLY (purchased separately)

CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
KT-CYLED-REFL-6A-15-KIT	15° reflector | Used on 6" wall mount cylinders	843654167282	MHG-76
KT-CYLED-REFL-4A-15-KIT	15° reflector | Used on 4" wall mount cylinders	843654167275	OUY-06
KT-CYLED-REFL-3A-15-KIT	15° reflector | Used on 3" wall mount cylinders	843654167268	ZAP-57
KT-CYLED-REFL-6A-25-KIT	FOR REPLACEMENT PURPOSES ONLY | 25° reflector | Used on 6" wall mount cylinders	843654167879	AYP-41
KT-CYLED-REFL-4A-25-KIT	FOR REPLACEMENT PURPOSES ONLY | 25° reflector | Used on 4" wall mount cylinders	843654167886	MAW-99
KT-CYLED-REFL-3A-25-KIT	FOR REPLACEMENT PURPOSES ONLY | 25° reflector | Used on 3" wall mount cylinders	843654167893	SGD-15
KT-CYLED-REFL-6A-40-KIT	FOR REPLACEMENT PURPOSES ONLY | 40° reflector | Used on 6" wall mount cylinders	843654167909	ZUA-50
KT-CYLED-REFL-4A-40-KIT	FOR REPLACEMENT PURPOSES ONLY | 40° reflector | Used on 4" wall mount cylinders	843654167916	WMP-02
KT-CYLED-REFL-3A-40-KIT	FOR REPLACEMENT PURPOSES ONLY | 40° reflector | Used on 3" wall mount cylinders	843654167923	LJU-89
KT-CYLED-REFL-6A-60-KIT	FOR REPLACEMENT PURPOSES ONLY | 60° reflector | Used on 6" wall mount cylinders	843654167930	PFE-95
KT-CYLED-REFL-4A-60-KIT	FOR REPLACEMENT PURPOSES ONLY | 60° reflector | Used on 4" wall mount cylinders	843654167947	PJY-93
KT-CYLED-REFL-3A-60-KIT	FOR REPLACEMENT PURPOSES ONLY | 60° reflector | Used on 3" wall mount cylinders	843654167954	QYV-77



15° reflector
KT-CYLED-REFL-6A-15-KIT

(*Accessories* continued on next page)

SINCE 1945 KEYSTONE LIGHT MADE EASY | SENTINEL WALL MOUNT CYLINDER | FormFIT optic swap | POWER SELECT COLOR SELECT

KT-CYLEDXXPS-XA-WDI-OSG-8CSB-VDIM-X

DIRECT/INDIRECT WALL MOUNT CYLINDER

ACCESSORIES (CONTINUED)

BLOCKING CAP

Field-Installable / Field-Use ONLY (purchased separately)

CATALOG NUMBER	DESCRIPTION	HOUSING COLOR	UPC	EASY CODE
KT-CYLED-CAP-3A	Screw-on blocking cap | Used on 3" wall mount cylinders	Bronze	843654170138	QLK-59
KT-CYLED-CAP-4A	Screw-on blocking cap | Used on 4" wall mount cylinders	Bronze	843654170145	TQF-57
KT-CYLED-CAP-6A	Screw-on blocking cap | Used on 6" wall mount cylinders	Bronze	843654170152	USF-44
KT-CYLED-CAP-3A-B	Screw-on blocking cap | Used on 3" wall mount cylinders	Black	843654170169	FOE-37
KT-CYLED-CAP-4A-B	Screw-on blocking cap | Used on 4" wall mount cylinders	Black	843654170176	XJD-92
KT-CYLED-CAP-6A-B	Screw-on blocking cap | Used on 6" wall mount cylinders	Black	843654170183	NLX-10
KT-CYLED-CAP-3A-W	Screw-on blocking cap | Used on 3" wall mount cylinders	White	843654170190	KBC-28
KT-CYLED-CAP-4A-W	Screw-on blocking cap | Used on 4" wall mount cylinders	White	843654170206	XVK-67
KT-CYLED-CAP-6A-W	Screw-on blocking cap | Used on 6" wall mount cylinders	White	843654170213	KQL-60



Screw-on blocking cap
KT-CYLED-CAP-3A

ORDERING INFORMATION

CATALOG NUMBER	UPC	EASY CODE
KT-CYLED36PS-6A-WDI-OSG-8CSB-VDIM	843654162553	JYZ-12
KT-CYLED36PS-6A-WDI-OSG-8CSB-VDIM-W	843654162560	GRG-58
KT-CYLED36PS-6A-WDI-OSG-8CSB-VDIM-B	843654162577	MAD-45
KT-CYLED20PS-4A-WDI-OSG-8CSB-VDIM	843654162584	PUZ-21
KT-CYLED20PS-4A-WDI-OSG-8CSB-VDIM-W	843654162591	XQM-86
KT-CYLED20PS-4A-WDI-OSG-8CSB-VDIM-B	843654162607	XQP-32
KT-CYLED10PS-3A-WDI-OSG-8CSB-VDIM	843654162614	ZZF-20
KT-CYLED10PS-3A-WDI-OSG-8CSB-VDIM-W	843654162621	XAN-82
KT-CYLED10PS-3A-WDI-OSG-8CSB-VDIM-B	843654162638	COV-46

CATALOG NUMBER BREAKDOWN

KT-CYLEDXXPS-XA-WDI-OSG-8CSB-VDIM-X

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

1 **Keystone Technologies**
2 **Cylinder LED**
3 **Max Wattage**
4 **Power Select**
5 **Size**
6 **Style A**
7 **Wall Mount**
8 **Orientation**
9 **Optic Swap**
10 **Optic Swap Designation**
11 **80 CRI**
12 **Color Select**
13 **Color Select Designation**
14 **Dimming**
15 **Housing Color**

5 Size

3	3" Diameter
4	4" Diameter
6	6" Diameter

8 Orientation

DI	Direct/Indirect

10 Optic Swap Designation

G	40° installed, 25° & 60° included

11 Color Select Designation

8	3000/4000/5000K

14 Dimming

VDIM	0–10V

15 Housing Color

	Bronze
W	White
B	Black