



AGENDA
HAYDEN PLANNING COMMISSION
THURSDAY, MARCH 10, 2022
7:00 P.M.
HAYDEN TOWN HALL – 178 WEST JEFFERSON AVENUE, HAYDEN

REGULAR MEETING

1. CALL TO ORDER, MOMENT OF SILENCE & PLEDGE OF ALLEGIANCE
2. ROLL CALL
3. CONSIDERATION OF MINUTES
Review and Consider Approval of January 27, 2022 Planning Commission Minutes
4. PEACE (SONESTA) PARK SUBDIVISION – STEPHEN EVANS (CONTINUED FROM NOVEMBER 16, 2021/TO BE TABLED TO MARCH 24, 2022)
 - a. Public Hearing: Preliminary Subdivision Plan for Peace Park Subdivision, a 16-lot single-family and duplex residential subdivision in the Residential High Density (RHD) zone district at approximately 200 Harvest Drive, Lots 1-64, Tracts A, B & C, Sonesta Park PUD
 - b. Consideration of recommendations for approval of Peace Park Subdivision Preliminary Subdivision Plan, a 16-lot single-family and duplex residential subdivision in the RHD zone district at approximately 200 Harvest Drive, Lots 1-64, Tracts A, B & C, Sonesta Park PUD
5. ROUTT COUNTY/YAMPA VALLEY REGIONAL AIRPORT – QUICK TURNAROUND SUPPORT FACILITY
Review and consideration for approval of a Major Site Plan to construct a 4,500 sq. ft. building to house the car wash facility within the Yampa Valley Regional Airport property that will support car rental services at 11005 County Road 51A, Hayden. The property is zoned Airport Overlay (AO).
6. STAFF REPORTS
7. ADJOURNMENT

NOTICE: Agenda is subject to change up to 24 hours before scheduled meeting. If you require special assistance in order to attend any of the Town's public meetings or events, please notify the Town of Hayden at (970) 276-3741 at least 48 hours in advance of the scheduled event so the necessary arrangements can be made.



Regular Meeting

Hayden Planning Commission

January 27, 2022

The regular meeting of the Hayden Planning Commission was called to order by Chair Amy Williams at 7:00 p.m. Other members present were Tim Frentress, Emily Waldron, Michelle Lewis and Melinda Dudley. Mayor Zach Wuestewald and Town Planner Mary Alice Page-Allen were also in attendance.

Pledge of Allegiance

Chair Williams led the Pledge of Allegiance.

Consideration of Minutes

Commissioner Waldron moved to approve the Planning Commission minutes for the meeting held on January 13, 2022 as written. Commissioner Dudley seconded the motion. Motion approved unanimously.

Work Session

Hayden Development Code Updates

A work session was held to discuss and review updates to the Hayden Development Code.

Adjournment

Commissioner Frentress moved to adjourn the meeting at 8:02 p.m. Commissioner Lewis seconded the motion. Motion passed unanimously.

Recorded by:

Mary Alice Page-Allen

APPROVED THIS 10TH DAY OF MARCH, 2022

Amy Williams, Chair



Town of Hayden

Planning Commission Agenda Item

MEETING DATE: March 10, 2022

AGENDA ITEM TITLE: Public Hearing: Peace (Sonesta) Park Subdivision Preliminary Plan

AGENDA SECTION: New Business

PRESENTED BY: Mary Alice Page-Allen
Planning & Economic Development Director

APPLICANT: Stephan L. Evans

CAN THIS ITEM BE RESCHEDULED: Yes. This item needs to be tabled to March 24, 2022 Planning Commission Meeting

BACKGROUND REVIEW:

The public hearing and consideration the Preliminary Plan for the Peace Park Subdivision needs to be postponed to the March 24, 2022 Planning Commission meeting. Due to the need for additional information that was not realized until the staff report was being developed and subsequent to notices being provided, staff and the applicant's consultant are requesting that this matter be tabled to this date certain to allow for that information to be gathered. Notice of this change of hearing date has been provided to the adjacent property owners.

RECOMMENDATION: Move to table the public hearing and review and consideration of the Peace Park Subdivision Preliminary Plan to the March 24, 2022 Planning Commission meeting.

MANAGER'S RECOMMENDATION/COMMENTS: *I concur with this recommendation.*



Town of Hayden

Planning Commission Agenda Item

MEETING DATE: March 10, 2022

AGENDA ITEM TITLE: Routt County/Yampa Valley Regional Airport
Quick Turnaround Facility

AGENDA SECTION: New Business

PRESENTED BY: Mary Alice Page-Allen, Town Planner

APPLICANT(S): Routt County/Yampa Valley Regional Airport

CAN THIS ITEM BE RESCHEDULED: Not recommended.

ATTACHMENTS: Application Submittal
Mike Mordi, Director, Routt County Public Works, Email, 2/28/22

BACKGROUND REVIEW:

Routt County (County) owns and operates the Yampa Valley Regional Airport (YVRA) on approximately 740 acres located at 11005 RCR 51A in the southeast portions of the Town of Hayden municipal limits. The County, through their architect, has submitted a Site Plan application to construct and operate a Quick Turnaround (QTA) as part of the YVRA support system for rental car distribution. The facility will provide an indoor space for cleaning and detailing prior to the vehicles going out to new customers.

The building site is located directly north of the existing fuel farm facility. Other surrounding uses include the Hayden Airport Garages to the west, the site for the Hayden Auto Hangers currently under construction to the north, and YVRA employee parking across Piper Lane to the east.

The proposed building will be 4,500 sq. ft. (60' x 75') with a 10-foot-wide concrete apron. The metal building will have three (3) vehicle service bays and an interior support bay. The bays will be accessed through roll-up doors. The color scheme and exterior will be similar to other airport support facilities. Piper Lane, a gravel-surfaced road which extends south from County Road 51A into the airport, will be reshaped and paved with asphalt to the QTA site access. Other improvements include asphalt paving around the building with queue lanes for the three (3) wash bays and for the rental car storage parking areas, concrete curb and gutter around that asphalt parking and drive areas that will serve to direct stormwater to proposed curb inlets, and extension of gas, water, sewer and electric service utilities. Stormwater will be directed to existing swales and culverts running along Piper Lane and into the existing

detention pond on the north side of County Road 51A. Plans also show adequate erosion control and revegetation measures being taken during and subsequent to construction, as well as road construction standards meeting the Routt County Road & Bridge Road Construction Standards.

COMPLIANCE WITH THE TOWN OF HAYDEN DEVELOPMENT CODE

While the Hayden Development Code (Code) contains numerous regulations regarding land use, staff has selected the following checklist to highlight the regulations directly applicable to this application. Interested parties are encouraged to review the Code to determine if there are other regulations that may be applicable to the review of this application.

Chapter 7.16 – Development Review Procedures

Section 7.16.020 – General Procedures and Requirements.

Complies Yes No		Section	Standards
		c.	Step 3: Application Processing
		(2)	Referral to Other Agencies. Development applications may be referred to other agencies for review and comment ... Referral agencies may include, but are not limited to:
<u> √ </u>	<u> </u>	(i)	Any utility, local improvement or service district or ditch company, when applicable. <i>Staff comment: A referral was made to Hayden Public Works Department, Yampa Valley Electric Association, Hayden Police Department and Routt County Public Works Department. Public Works responded that water and sewer facilities exist to serve the proposed use. Routt County Road & Bridge has affirmed the need for a drainage study to be performed to ensure that existing drainage structures are adequate to handle the newly developed runoff from the building, parking/drive areas, and newly paved Piper Lane to roadway infrastructure, as well as to ensure that there are no offsite water runoff impacts to surrounding properties. A condition in this regard is recommended below.</i>
		f.	Step 6: Review and Decision
<u> √ </u>	<u> </u>	(3)	Findings. The reviewing authority shall adopt written findings which document that a recommendation or decision is based upon a determination of whether the development application complies with the applicable review criteria. The written findings shall state the conditions or mitigation. <i>Staff comment: Recommended findings of fact and conditions are included below for the Planning Commission's consideration.</i>

Section 7.16.100 – Site Plan.

This Section sets forth procedures and criteria for the review and approval of Site Plans.

Complies Yes No		Section	Standards
		(d)	Review Criteria. The following review criteria applies to review of Site Plans:
<u> √ </u>	<u> </u>	(1)	All required information is shown on the Site Plan. <i>Staff Comment: The Site Plan and accompanying information show improvements on the property, utilities, access and other features needed to demonstrate compliance with the applicable design standards.</i>
<u> √ </u>	<u> </u>	(2)	The lot size and lot dimensions are consistent with the approved Final Plat. <i>Staff Comment: The property is held by Routt County in metes and bounds.</i>
<u> √ </u>	<u> </u>	(3)	No building, structures, or other improvements encroach or infringe upon any easements, including but not limited to: access, utility and drainage easements. <i>Staff Comment: The proposed expansion conforms to the master development plan for the YVRA.</i>
<u> √ </u>	<u> </u>	(5)	The density and dimensions of the proposed improvements conform to the zone district standards.
<u> √ </u>	<u> </u>	(e)	Duration of Approval. An approved Site Plan shall be effective for a period of three (3) years from the date of approval, unless otherwise stated on the approved Site Plan. Building permits shall not be issued based on Site Plans that have an approved date more than three (3) years old. <i>Staff Comment: A condition is recommended below in this regard.</i>

Chapter 7.20 – Zone Districts and Official Zoning Map

Section 7.20.070 – AO Airport Overlay Zone District.

Complies Yes No		Section	Standards
		(a)	Intent. The intent of this overlay district is to define permitted and conditional uses on property related to the Yampa Valley Regional Airport. This District must have a base zoning category of O – Open. Further, the intent is to allow land uses in the immediate vicinity of Yampa Valley Regional Airport such as light industrial, commercial or business uses related to airport operations that are located, designed, constructed and maintained in a manner that does not impair the safe operation of the Yampa Valley Regional Airport.
<u> √ </u>	<u> </u>	(b)(7)	Airport parking lots and support operations.

- (d) **Building height limit.** The height regulations are as follows:
- √ (1) No structure, except for airport buildings and associated structures, shall exceed two and one-half stories or twenty-five feet in height. *Staff comment: Plans show a building height of twenty-five (25) feet.*
- √ (3) Airport buildings and structures shall not exceed fifty feet in height, provided that a particular building, or buildings, may be permitted to exceed such height limit only upon the approval of a conditional use permit. *Staff comment: The structure height of the building is twenty-five (25) feet.*
- √ (e) **Area regulations.** All buildings and structures located in the Airport Overlay shall meet the minimum setback requirements of the underlying zoning district and any other applicable setback requirements et forth elsewhere in this Article. *Staff comment: The underlying Open (O) zone district standards are met on this site.*

RECOMMENDATION:

Move to approve the Site Plan for QTA facility at the Yampa Valley Regional Airport with the findings of fact that:

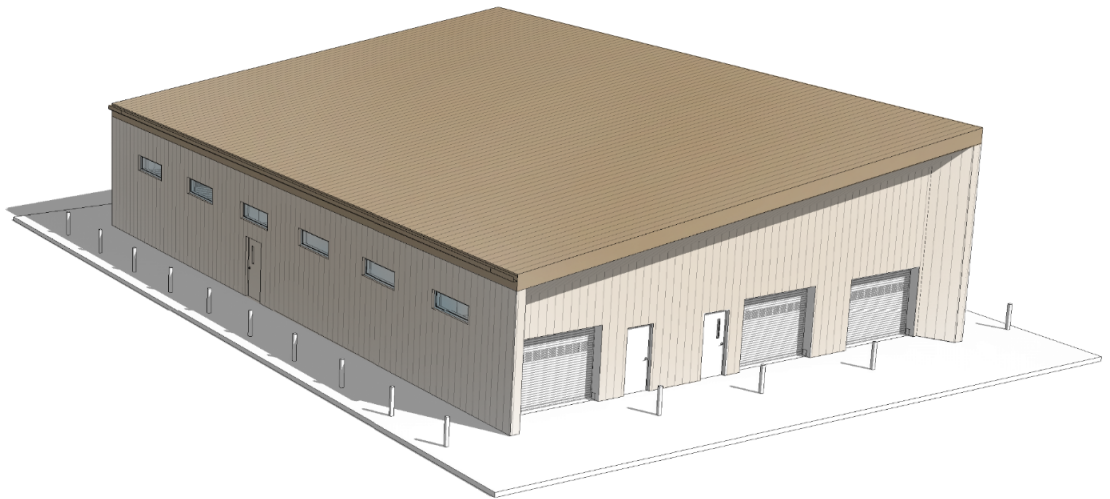
1. The proposal meets the standards of the Town of Hayden's Development Code, is in general conformance with the intent and purpose of the Hayden Forward Master Plan and preserves the health, safety and welfare of the citizens of the Town of Hayden.

Subject to the following conditions of approval:

1. The effective date of this approval is the date upon which the Planning Commission approves the application. The approval shall expire three (3) years from its effective date, unless application for a building permit is made within the term of the approval or unless application for renewal of the Site Plan approval is approved pursuant to Section 7.16.020, Hayden Development Code (HDC).
2. A drainage study shall be performed that provides for proper measures to be taken to ensure that existing drainage structures are adequate to handle the newly developed runoff from the building, parking/drive areas, and newly paved Piper Lane, as well as to ensure that there are no offsite water run-off impacts to surrounding properties.

MANAGER'S RECOMMENDATION/COMMENTS:

I concur with this recommendation.



YAMPA VALLEY REGIONAL AIRPORT (HDN)
RENTAL CAR QUICK TURNAROUND (QTA) FACILITY

PROJECT NUMBER 3095800-220220.01

February 17, 2022

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PROJECT NARRATIVE

The proposed project is a Quick Turnaround (QTA) facility to be part of the Yampa Valley Regional Airport support system for rental car distribution. When vehicles are returned by visitors this building will provide an indoor space for cleaning and detailing prior to the vehicle going out with a new rental customer.

The building will have a footprint of approximately 60ft x 75ft with a 10ft concrete apron around the perimeter. A pre-engineered metal building is anticipated, with 3 vehicle service bays and a support bay on the interior. Refer to drawings in the attached site plan. Vehicle bays will be accessed through roll-up doors with vision lites. The roof will be clad with metal panels and exterior walls will be similarly clad in metal panels typical of the airport's support facilities.

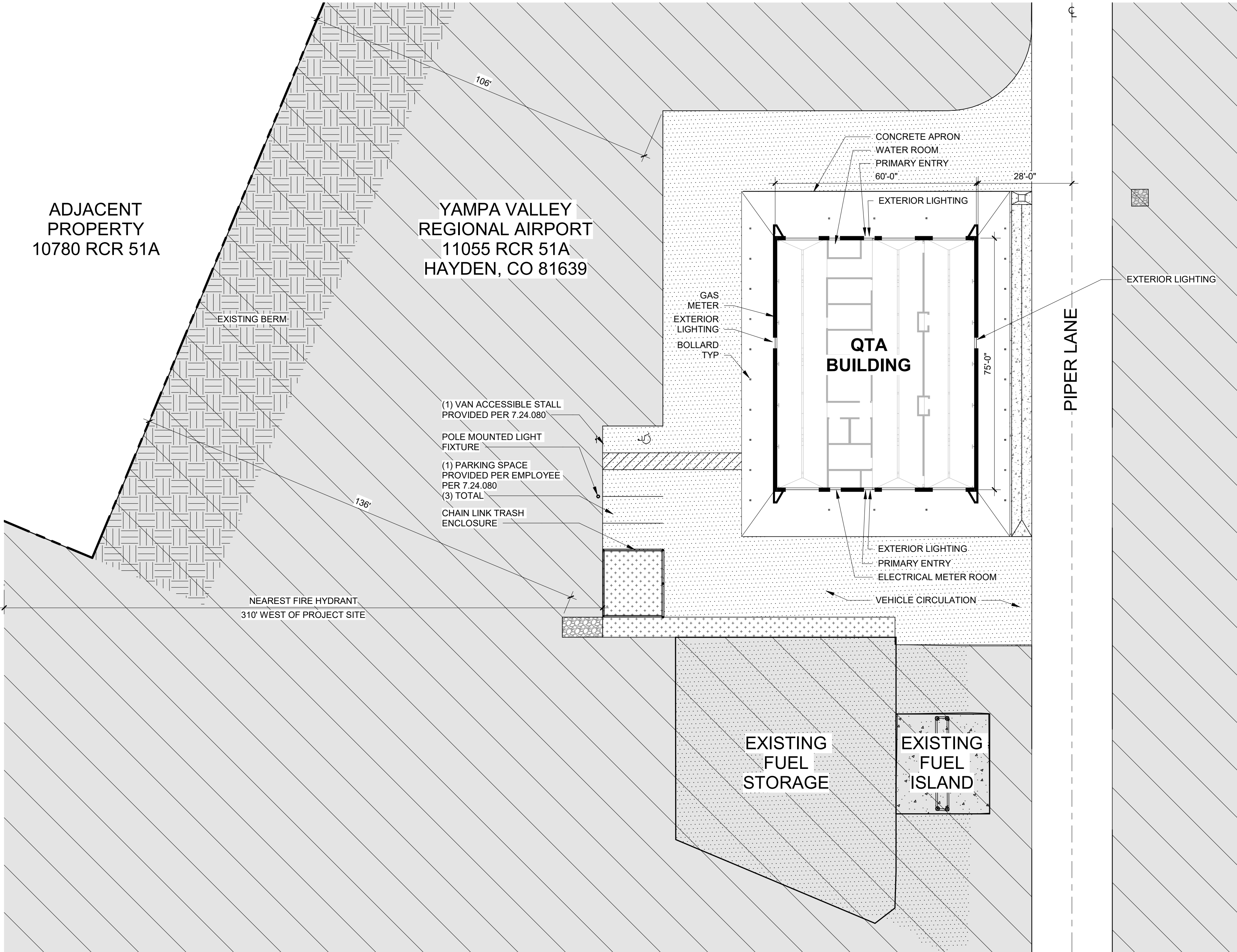
The existing gravel-surfaced Piper Lane will be reshaped per Routt County Road and Bridge standards and paved with asphalt from CR 51A to the new car wash facility. The intersection at CR 51A will not be widened but will also be paved and marked per standards. Aggregate base and asphalt will conform to Routt County Road and Bridge standards.

A 10ft concrete apron will surround the QTA facility to separate traffic from pedestrian walk areas and vehicle access to the building. Bollards will be spaced around the building along the concrete edge to protect pedestrians from traffic. Other site features will include an asphalt drive around the building with queue lanes for the three wash bays and parking areas for rental car storage. Concrete curb and gutter will be utilized around the asphalt parking and drive areas to direct stormwater to the proposed curb inlets.

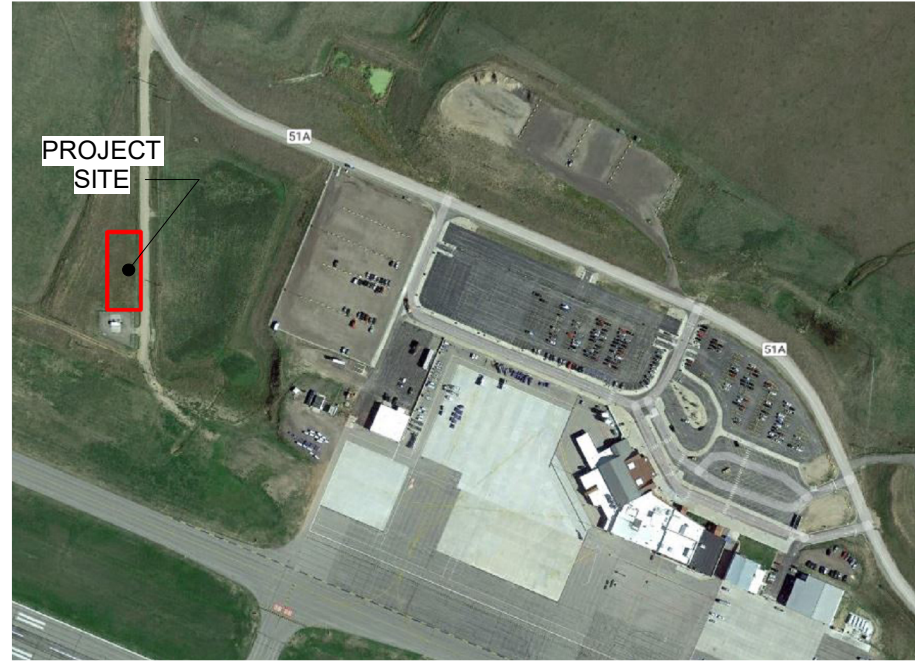
All necessary utilities for the new facility are in close proximity to the proposed building site. Gas, water, and sanitary sewer run along the airport property line on the west edge of the site. Coordination with Hayden County will be required to connect the water and sanitary systems to the mains. The sanitary sewer will also require a pump station to tie into the main line. Overhead power and fiber cross the site along Piper Lane. Stormwater will be directed along the swale on the west side of Piper Lane, across to the east side through a culvert, then through an existing culvert that runs under CR 51A, and into an existing detention pond on the north side of CR 51A.

SITE PLAN MAP

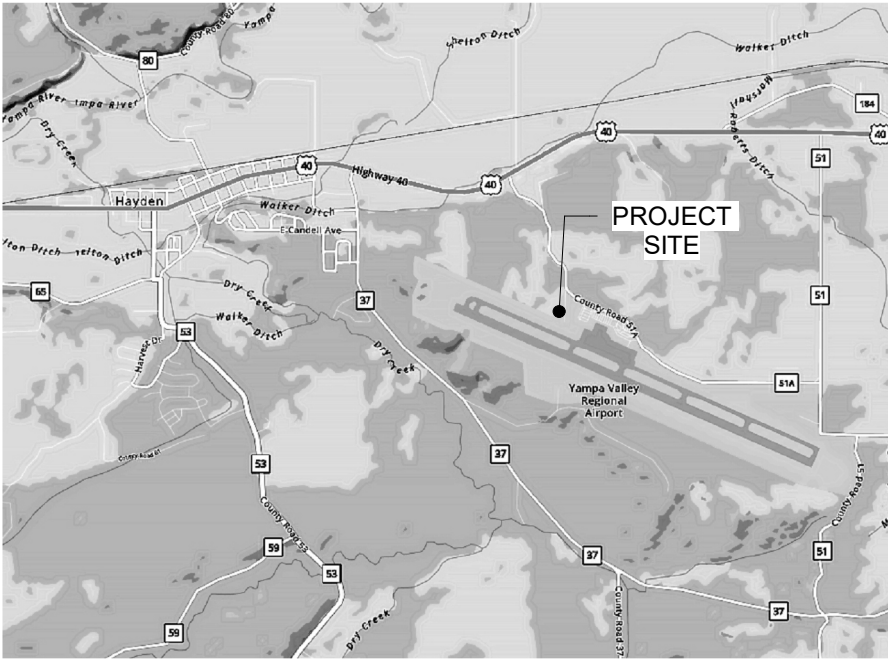
SEE CIVIL DRAWINGS FOR MORE INFORMATION



LOCAL MAP



VICINITY MAP



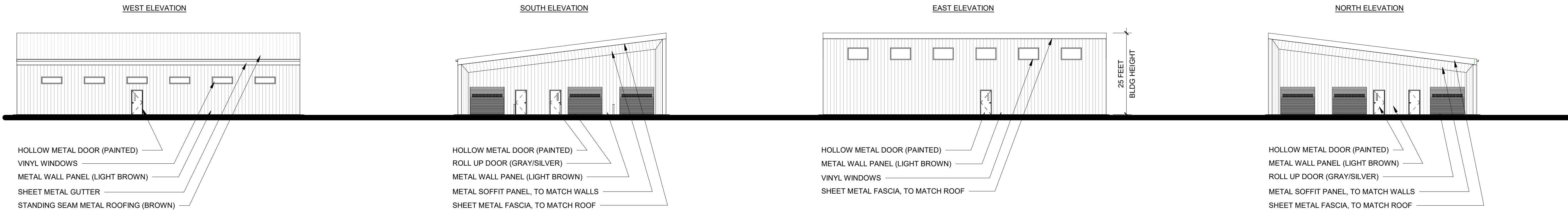
BUILDING PERSPECTIVE VIEW



PROJECT INFORMATION

PROJECT TITLE HDN QTA	BUILDING AREA 4,500 SQFT
PROJECT ADDRESS 11055 RCR 51A HAYDEN, CO 81639	BUILDING HEIGHT: 25 FT
PROPERTY OWNER YAMPA VALLEY REGIONAL AIRPORT 11055 RCR 51A HAYDEN, CO 81639	BUILDING USE: CAR WASH
PROJECT APPLICANT: KEVIN BOOTH, AIRPORT DIRECTOR PHONE: (970) 276-5004	NUMBER OF EMPLOYEES: 3
SITE PLAN PREPARED BY: ANDREW PULLIAM, ARCHITECT MEAD & HUNT 1743 WAZEE ST SUITE 400 DENVER, CO 80202 PHONE: (971)-256-9308	LIGHTING 7.24.220: LIGHTING DESIGN CONFORMS TO HAYDEN, CO MUNICIPAL CODE TITLE 7 REQUIREMENTS FOR THE AO - AIRPORT OVERLAY DISTRICT, AS WELL AS THE APPLICABLE DESIGN REQUIREMENTS OF THE YAMPA VALLEY REGIONAL AIRPORT. SEE ATTACHED LIGHTING FIXTURE INFORMATION.
SEE ATTACHED EXHIBITS: C-001: EROSION CONTROL PLAN C-101: SITE PLAN C-201: GRADING AND DRAINAGE PLAN C-301: UTILITY PLAN EXTERIOR LIGHT FIXTURE INFO PROJECT SITE SURVEY PROPERTY OWNERSHIP MAP	BUILDING SIGNAGE 7.28: NO BUILDING SIGNAGE IS PROPOSED.
	LANDSCAPE & OPEN SPACE - 7.24.120, 7.24.120 SITE DESIGN OUTSIDE OF THE BUILDING FOOTPRINT TO CONFORM TO HDN AIRPORT STANDARDS.

BUILDING ELEVATIONS



Mead
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YAMPA VALLEY REGIONAL AIRPORT

QTA

11005 RCR 51A
HAYDEN, CO 81639

ISSUED

NOT FOR CONSTRUCTION

M&H NO.: 3095800-220220.01
DATE: February 14, 2022
DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker

DO NOT SCALE DRAWINGS

SHEET CONTENTS
SITE PLAN MAP

SHEET NO.:

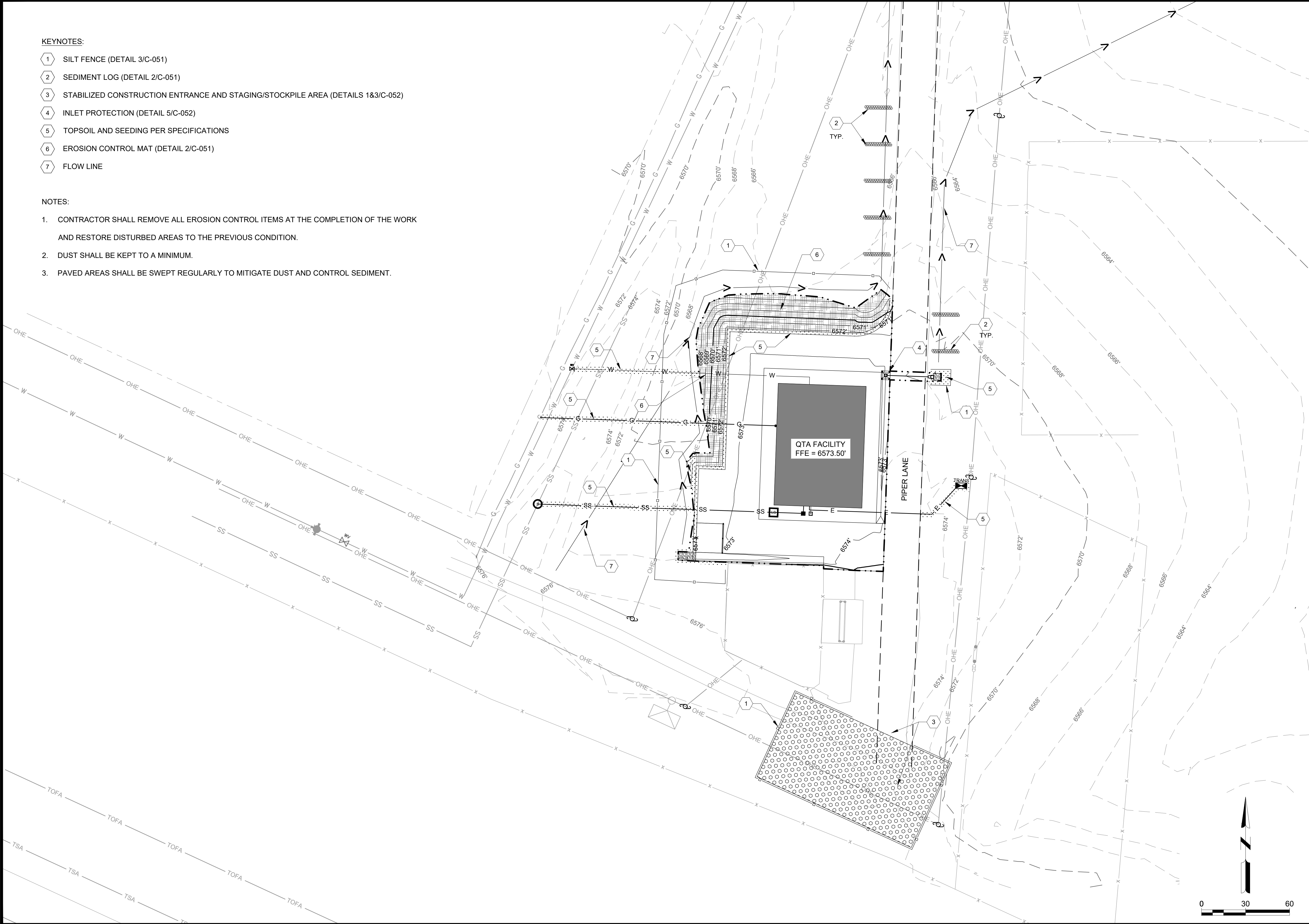
SPM-01

KEYNOTES:

- 1 SILT FENCE (DETAIL 3/C-051)
- 2 SEDIMENT LOG (DETAIL 2/C-051)
- 3 STABILIZED CONSTRUCTION ENTRANCE AND STAGING/STOCKPILE AREA (DETAILS 1&3/C-052)
- 4 INLET PROTECTION (DETAIL 5/C-052)
- 5 TOPSOIL AND SEEDING PER SPECIFICATIONS
- 6 EROSION CONTROL MAT (DETAIL 2/C-051)
- 7 FLOW LINE

NOTES:

- CONTRACTOR SHALL REMOVE ALL EROSION CONTROL ITEMS AT THE COMPLETION OF THE WORK AND RESTORE DISTURBED AREAS TO THE PREVIOUS CONDITION.
- DUST SHALL BE KEPT TO A MINIMUM.
- PAVED AREAS SHALL BE SWEEPED REGULARLY TO MITIGATE DUST AND CONTROL SEDIMENT.



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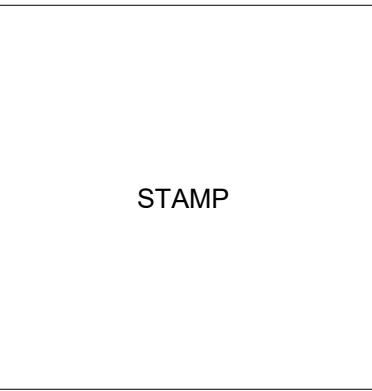
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YAMPA VALLEY REGIONAL AIRPORT

QTA

11005 RCR 51A
HAYDEN, CO 81639

ISSUED



M&H NO.: 3095800-220220.01
DATE: February 7, 2022
DESIGNED BY: JCE
DRAWN BY: JCE
CHECKED BY: JKL
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SHEET CONTENTS
EROSION CONTROL
PLAN

SHEET NO.

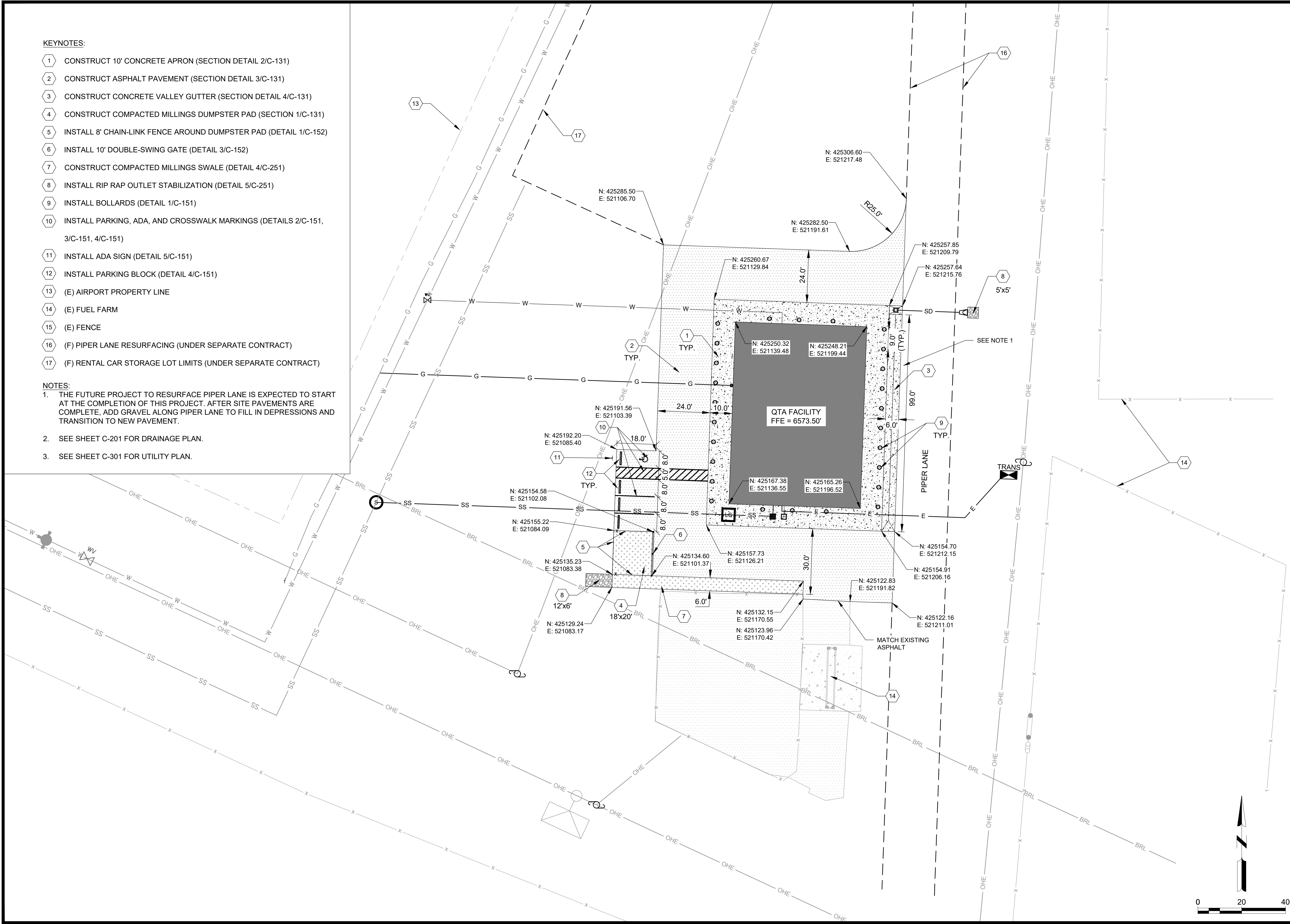
C-001

KEYNOTES:

- 1 CONSTRUCT 10' CONCRETE APRON (SECTION DETAIL 2/C-131)
- 2 CONSTRUCT ASPHALT PAVEMENT (SECTION DETAIL 3/C-131)
- 3 CONSTRUCT CONCRETE VALLEY GUTTER (SECTION DETAIL 4/C-131)
- 4 CONSTRUCT COMPACTED MILLINGS DUMPSTER PAD (SECTION 1/C-131)
- 5 INSTALL 8' CHAIN-LINK FENCE AROUND DUMPSTER PAD (DETAIL 1/C-152)
- 6 INSTALL 10' DOUBLE-SWING GATE (DETAIL 3/C-152)
- 7 CONSTRUCT COMPACTED MILLINGS SWALE (DETAIL 4/C-251)
- 8 INSTALL RIP RAP OUTLET STABILIZATION (DETAIL 5/C-251)
- 9 INSTALL BOLLARDS (DETAIL 1/C-151)
- 10 INSTALL PARKING, ADA, AND CROSSWALK MARKINGS (DETAILS 2/C-151, 3/C-151, 4/C-151)
- 11 INSTALL ADA SIGN (DETAIL 5/C-151)
- 12 INSTALL PARKING BLOCK (DETAIL 4/C-151)
- 13 (E) AIRPORT PROPERTY LINE
- 14 (E) FUEL FARM
- 15 (E) FENCE
- 16 (F) PIPER LANE RESURFACING (UNDER SEPARATE CONTRACT)
- 17 (F) RENTAL CAR STORAGE LOT LIMITS (UNDER SEPARATE CONTRACT)

NOTES:

1. THE FUTURE PROJECT TO RESURFACE PIPER LANE IS EXPECTED TO START AT THE COMPLETION OF THIS PROJECT. AFTER SITE PAVEMENTS ARE COMPLETE, ADD GRAVEL ALONG PIPER LANE TO FILL IN DEPRESSIONS AND TRANSITION TO NEW PAVEMENT.
2. SEE SHEET C-201 FOR DRAINAGE PLAN.
3. SEE SHEET C-301 FOR UTILITY PLAN.



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YAMPA VALLEY REGIONAL AIRPORT

QTA

11005 RCR 51A
HAYDEN, CO 81639

ISSUED

STAMP

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CHECKED BY: JKL
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SHEET CONTENTS
SITE PLAN

SHEET NO.

C-101

KEYNOTES:

- 1 TYPE C CATCH BASIN (DETAIL 3/C-251)
- 2 FLARED END SECTION (DETAIL 1/C-251)
- 3 REINFORCED CONCRETE PIPE (DETAIL 2/C-251)

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YAMPA VALLEY REGIONAL AIRPORT

QTA

11005 RCR 51A
HAYDEN, CO 81639

ISSUED

STAMP

M&H NO.: 3095800-220220.01
DATE: February 7, 2022
DESIGNED BY: JCE
DRAWN BY: JCE
CHECKED BY: JKL
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SHEET CONTENTS
GRADING & DRAINAGE
PLAN

SHEET NO.

C-201

YAMPA VALLEY REGIONAL AIRPORT

QTA

11005 RCR 51A
HAYDEN, CO 81639

ISSUED

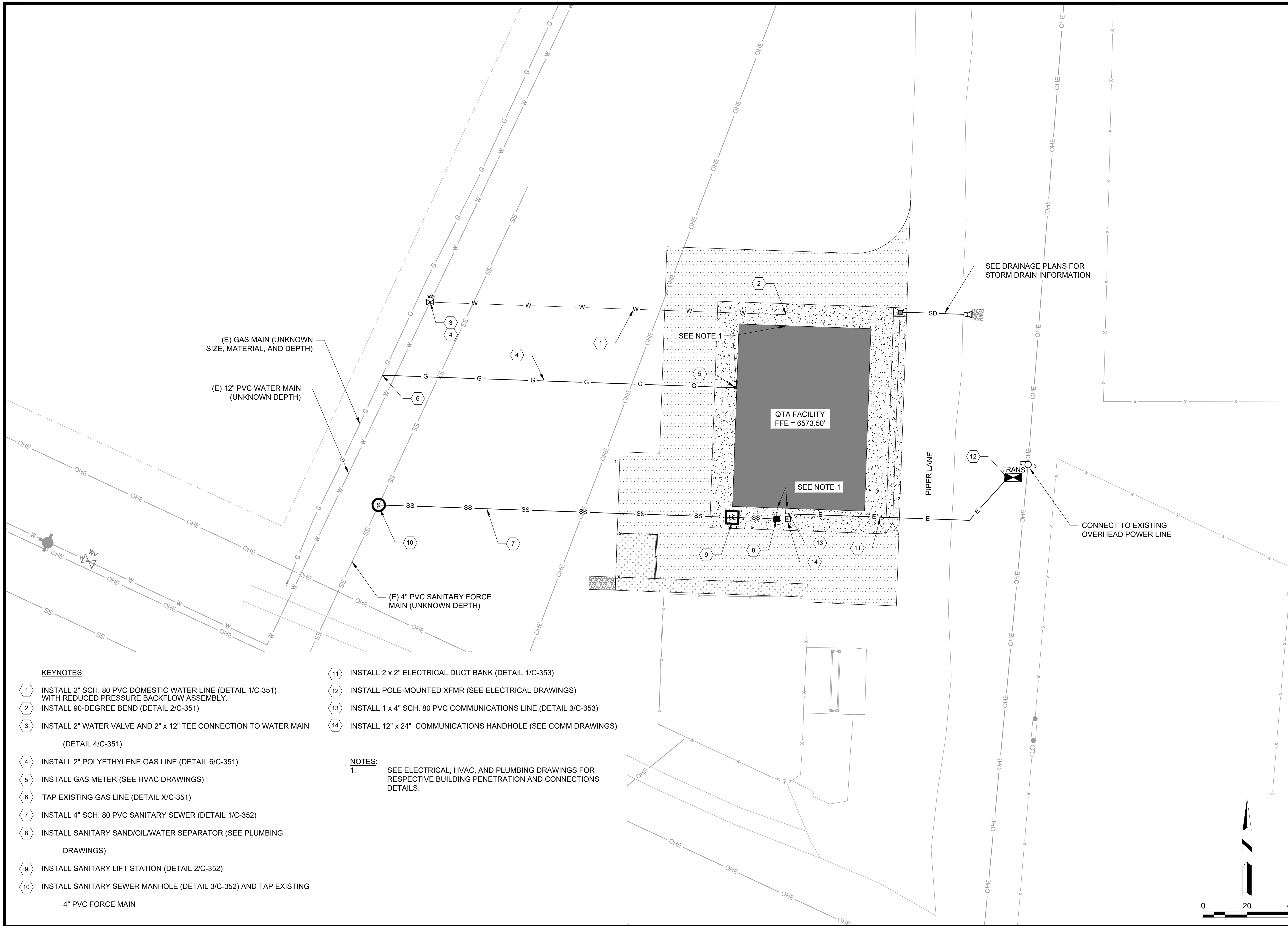
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SHEET CONTENTS
UTILITY PLAN

SHEET NO.

C-301



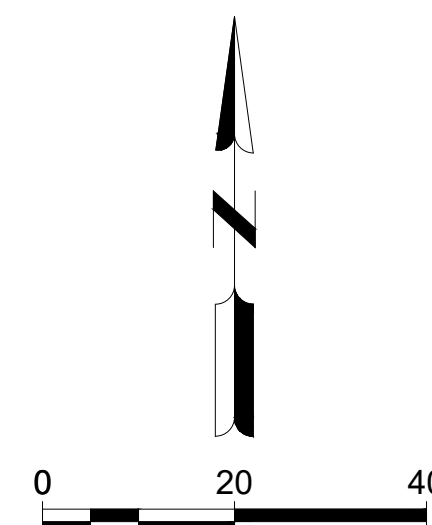
KEYNOTES:

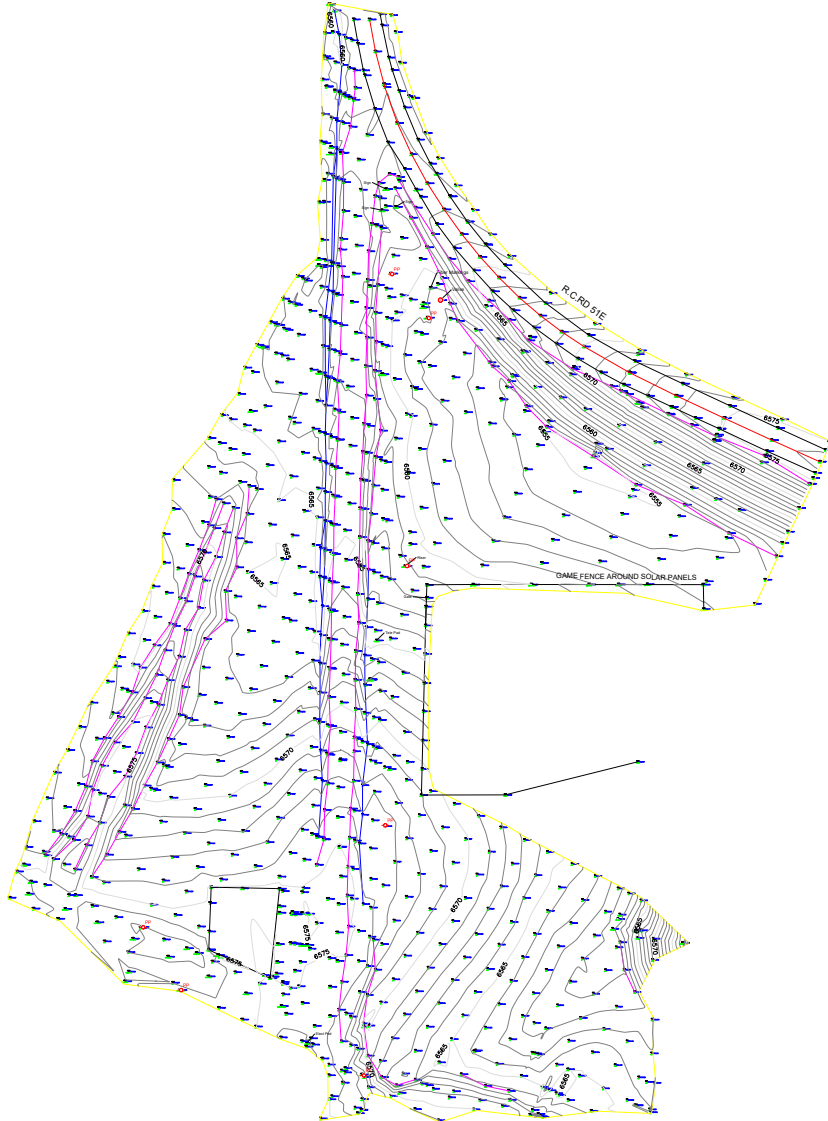
1. INSTALL 2" SCH. 80 PVC DOMESTIC WATER LINE (DETAIL 1/C-351) WITH REDUCED PRESSURE BACKFLOW ASSEMBLY.
2. INSTALL 90-DEGREE BEND (DETAIL 2/C-351)
3. INSTALL 2" WATER VALVE AND 2" x 12" TEE CONNECTION TO WATER MAIN (DETAIL 4/C-351)
4. INSTALL 2" POLYETHYLENE GAS LINE (DETAIL 6/C-351)
5. INSTALL GAS METER (SEE HVAC DRAWINGS)
6. TAP EXISTING GAS LINE (DETAIL X/C-351)
7. INSTALL 4" SCH. 80 PVC SANITARY SEWER (DETAIL 1/C-352)
8. INSTALL SANITARY SAND/OIL/WATER SEPARATOR (SEE PLUMBING DRAWINGS)
9. INSTALL SANITARY LIFT STATION (DETAIL 2/C-352)
10. INSTALL SANITARY SEWER MANHOLE (DETAIL 3/C-352) AND TAP EXISTING 4" PVC FORCE MAIN

11. INSTALL 2 x 2" ELECTRICAL DUCT BANK (DETAIL 1/C-353)
12. INSTALL POLE-MOUNTED XFMR (SEE ELECTRICAL DRAWINGS)
13. INSTALL 1 x 4" SCH. 80 PVC COMMUNICATIONS LINE (DETAIL 3/C-353)
14. INSTALL 12" x 24" COMMUNICATIONS HANDHOLE (SEE COMM DRAWINGS)

NOTES:

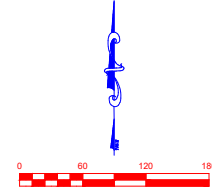
1. SEE ELECTRICAL, HVAC, AND PLUMBING DRAWINGS FOR RESPECTIVE BUILDING PENETRATION AND CONNECTIONS DETAILS.





NOTICE:

ACCORDING TO COLORADO LAW, YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE (3) YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT, MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN (10) YEARS FROM THE DATE OF CERTIFICATION SHOWN HEREON.



NOTES: 1) ALL MEASUREMENTS IN U.S. SURVEY FEET.
2) NO EASEMENTS OR TITLE RESEARCH HAS BEEN PERFORMED BY PERSONAL RESEARCH OF BRIAN T. KELLY, LS OR BTK SURVEYS, INC.
3) UNDERGROUND UTILITIES WERE LOCATED BY ED'S EXCAVATING AND OTHERS AND ARE SHOWN, MOSTLY IN THE NW AREA OF THE SURVEY.
5) NO BUILDING SETBACKS ARE SHOWN HEREON. ALWAYS CHECK WITH ROUTT COUNTY REGIONAL PLANNING FOR ANY RELEVANT BUILDING SETBACKS BEFORE COMMENCING ANY TYPE OF BUILDING DESIGN.

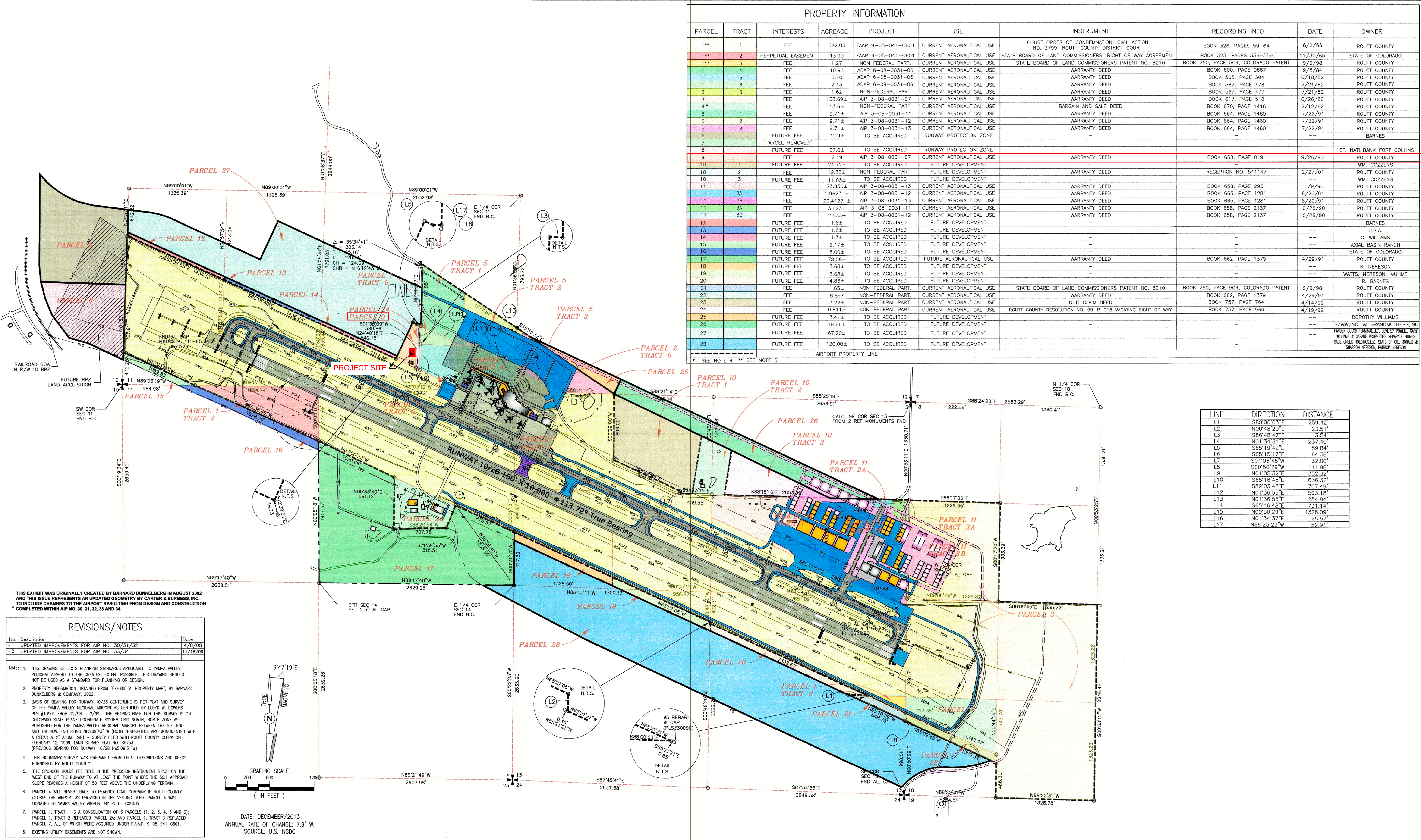
SURVEYOR'S CERTIFICATE

I, BRIAN T. KELLY, BEING A DULY REGISTERED LAND SURVEYOR IN THE STATE OF COLORADO, DO HEREBY CERTIFY TO BRETT SHAW, PAUL KRSTIJK AND THE LAND TITLE GUARANTEE COMPANY THAT THE IMPROVEMENT SURVEY SHOWN HEREON WAS DONE BY ME OR UNDER MY DIRECT SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BRIAN T. KELLY,
REGISTERED LAND SURVEYOR
NO. 24318

PIPER LANE/COUNTY ROAD 51E

 BTK SURVEYS, INC. Post Office Box 770967 Steamboat Springs, Colorado 80477-0967 970.879.0045	
TOPOGRAPHIC SURVEY	
TRACT OF LAND AROUND PIPER LANE&ROUTT COUNTY ROAD 51E, COUNTY, COLO.	
SCALE: 1"=60'	DATE: 12/15/2021
JOB NO. 21113YVRREV2	REV. DATE: 1/3-1/10/21





D-Series Size 1 LED Wall Luminaire



Buy American

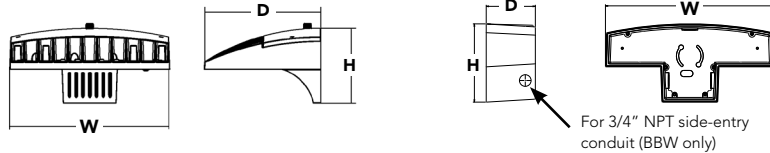
d-series

Specifications Luminaire

Width:	13-3/4" (34.9 cm)	Weight:	12 lbs (5.4 kg)
Depth:	10" (25.4 cm)		
Height:	6-3/8" (16.2 cm)		

Back Box (BBW, E20WC)

Width:	13-3/4" (34.9 cm)	BBW Weight:	5 lbs (2.3 kg)
Depth:	4" (10.2 cm)	E20WC Weight:	10 lbs (4.5 kg)
Height:	6-3/8" (16.2 cm)		



Catalog
Number

Notes

Type

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

Introduction MOUNT AT 9'-0"

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD

DSXW1 LED							
Series	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting	Control Options
DSXW1 LED	10C 10 LEDs (one engine) 20C 20 LEDs (two engines) ¹	350 350 mA 530 530 mA 700 700 mA 1000 1000 mA (1 A) ¹	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted	T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium	MVOLT ² 120 ³ 208 ³ 240 ³ 277 ³ 347 ^{3,4} 480 ^{3,4}	Shipped included (blank) Surface mounting bracket BBW Surface-mounted back box (for conduit entry) ⁵	Shipped installed PE Photoelectric cell, button type ⁶ DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) PIR 180° motion/ambient light sensor, <15' mtg ht ^{1,7} PIRH 180° motion/ambient light sensor, 15-30' mtg ht ^{1,7} PIR1FC3V Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ^{1,7} PIRH1FC3V Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ^{1,7} E20WC Emergency battery backup (includes external component enclosure), CA Title 20 compliant ^{8,9}

Other Options

Finish (required)

Shipped installed

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

Shipped separately¹¹

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

DDBXD	Dark bronze
DBLXD	Black
DNAXD	Natural aluminum
DWHXD	White
DSSXD	Sandstone
DBBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum

DWHGXD	Textured white
DSSTXD	Textured sandstone

Accessories

Ordered and shipped separately.

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

NOTES

- 20C 1000 is not available with PIR, PIRH, PIR1FC3V or PIRH1FC3V.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH.
- Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.
- Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
- Reference Motion Sensor table on page 3.
- Same as old ELCW. Cold weather (-20C) rated. Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with fusing. Not available with 347 or 480 voltage options. Emergency components located in back box housing. Emergency mode IES files located on product page at www.lithonia.com
- Not available with SPD.
- Not available with E20WC.
- Also available as a separate accessory; see Accessories information.
- Not available with E20WC.



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DSXW1-LED
Rev. 6/02/21

Performance Data

Lumen Output

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

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

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

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

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

Projected LED Lumen Maintenance

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

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

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

Electrical Load

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

Motion Sensor Default Settings

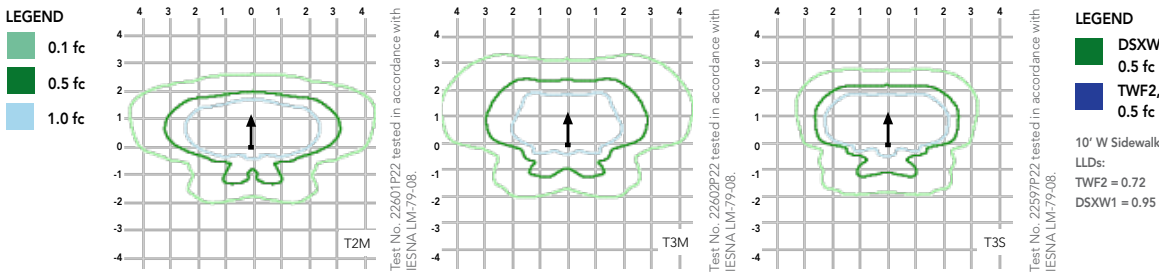
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

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

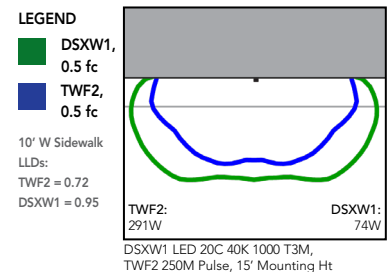
Photometric Diagrams

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

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



Distribution overlay comparison to 250W metal halide.



Options and Accessories



T3M (left)



HS - House-side shields



BSW - Bird-deterrent spikes



VG - Vandal guard



DDL - Diffused drop lens

FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings, long life and easy-to-install design of the D-Series Wall Size 1 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

CONSTRUCTION

Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65).

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building mounted applications. Light engines are available in 3000 K (70 min. CRI), 4000 K (70 min. CRI) or 5000 K (70 min. CRI) configurations.

ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L88/100,000 hrs at 25°C). Class 1 electronic drivers have a power factor >90%, THD <20%, and a minimum 2.5KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION

Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

LISTINGS

CSA certified to U.S. and Canadian standards. Rated for -40°C minimum ambient.

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

BUY AMERICAN

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

WARRANTY

Five-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



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DSXW1-LED
Rev. 6/02/21

Catalog Number
Notes
Type

FEATURES & SPECIFICATIONS

INTENDED USE — Square Tapered Steel is a general purpose light pole for up to 50-foot mounting heights. This pole provides a robust yet cost effective option for mounting area luminaires and floodlights. This square design provides higher EPA and weight loading values than Square Straight Steel (SSS) for applications where customer prefers a square shaped shaft.

CONSTRUCTION — **Pole Shaft:** The pole shaft is of 11-gauge (0.1196") or 7-gauge (0.1793") with a uniform wall thickness and is made of a weldable-grade (ASTM A-595 Grade A or A572 Grade 55), hot-rolled, commercial-quality carbon steel tubing with a minimum yield of 55,000 psi. Shaft is one-piece construction with a full-length longitudinal high-frequency electric resistance weld and is square in cross-section having a uniform linear taper of .11" per foot.

Pole Top: Options include tenon top, drilled for side mount fixture, tenon with drilling (includes extra handhole) and open top. Side drilled and open top poles include a removable steel top cap and set screws.

Handhole: A reinforced handhole with grounding provision is provided at 18" from the base end of the pole assembly. Every handhole includes a cover and cover attachment hardware. 3" x 5" rectangular handhole is provided on pole with 6" or less shaft side dimension. Pole shaft with dimensions greater than 6" are provided with a 4" x 6.5" oval shaped handhole.

Base Cover: A two-piece ABS plastic full base cover is provided with each pole assembly that is 35' or less. STS pole with heights greater than 35' includes sheet steel full base cover. Additional base cover options are available upon factory request. Options include fabricated two-piece sheet steel or heavy duty two-piece cast aluminum full base cover. All base covers are finished to match pole.

Anchor Base/ Bolts: Anchor base is fabricated from hot-rolled carbon steel plate that conforms with ASTM A36. Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an "L" blend on one end. All anchor bolts are hot-dipped galvanized a minimum of 12" nominal on the threaded end. Anchor bolts are made of steel rod having a minimum yield strength of 55,000 psi and a yield strength of 75,000 psi to 95,000 psi.

Hardware — All structural fasteners are high-strength galvanized carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel, or stainless steel.

Finish — Standard finishes include Dark Bronze, White, Black, Medium Bronze, Natural Aluminum, or Hot-dipped Galvanized finish. Classic colors include Sandstone, Charcoal Gray, Tennis Green, Bright Red and Steel Blue. Architectural Colors and Special Finishes are available by quote and include but are not limited to Hot-dipped Galvanized, Paint over Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes.

WARRANTY — 1-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

NOTE: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.



Anchor Base Poles

STS

SQUARE TAPERED STEEL

STS Square Tapered Steel Poles

ORDERING INFORMATION

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

Example: STS 20 5-2B DM19 DDB

STS					
Series	Nominal fixture mounting height	Nominal shaft base size/wall thickness ¹	Mounting ²	Options	Finish ⁷
STS	(See technical information table for complete ordering information.) 20'-50' (for 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.)	(See technical information table for complete ordering information.) 5-2B 5" (.125") 5-5F 5" (.188") 6-0B 6" (.125") 6-4F 6" (.188") 6-4B 6" (.125") 6-8B 6" (.125") 7-1F 7" (.188") 7-1B 7" (.125") 7-8F 7" (.188") 8-7F 8" (.188") 8-8F 8" (.188")	<u>Tenon mounting</u> PT Open top T20 2-3/8" O.D. (2" NPS) T25 2-7/8" O.D. (2-1/2" NPS) T30 3-1/2" O.D. (3" NPS) T35 4" O.D. (3-1/2" NPS) <u>KAC/KAD/KSE/KSF/KVR/KVE</u> <u>Drill mounting</u> ³ DM19 1 at 90° DM28 2 at 180° DM28PL 2 at 180° with one side plugged DM29 2 at 90° DM39 3 at 90° DM49 4 at 90° <u>CSX/DSX/AERIS™/OMERO™/HLA/KAX Drill mounting</u> ³ DM19AS 1 at 90° DM28AS 2 at 180° DM29AS 2 at 90° DM39AS 3 at 90° DM49AS 4 at 90° <u>AERIS™ Suspend drill mounting</u> ^{3,4} DM19AST 1 at 90° DM28AST 2 at 180° DM29AST 2 at 90° DM39AST 3 at 90° DM49AST 4 at 90° <u>OMERO™ Suspend drill mounting</u> ^{3,4} DM19MRT 1 at 90° DM28MRT 2 at 180° DM29MRT 2 at 90° DM39MRT 3 at 90° DM49MRT 4 at 90°	<u>Shipped installed</u> L/AB Less anchor bolts (Include when anchor bolts are not needed) VD Vibration damper TP Tamper resistant handhole cover fasteners HAXy Horizontal arm bracket (1 fixture) ^{5,6} FDLxy Festoon outlet less electrical ⁵ CPL12/xy 1/2" coupling ⁵ CPL34/xy 3/4" coupling ⁵ CPL1/xy 1" coupling ⁵ NPL12/xy 1/2" threaded nipple ⁵ NPL34/xy 3/4" threaded nipple ⁵ NPL1/xy 1" threaded nipple ⁵ EHHxy Extra handhole ^{5,7} MAEX Match existing ⁸ USPOM United States point of manufacture ⁹ IC Interior coating ¹⁰ UL UL listed with label (Includes NEC compliant cover) NEC NEC 410.30 compliant gasketed handhole (Not UL Labeled) <u>Shipped separately (replacement kit available)</u> (blank) FBC Full base cover (plastic) (blank) TC Top cap (blank) HHC Handhole cover	<u>Standard colors</u> DDB Dark bronze DWH White DBL Black DMB Medium bronze GALV Galvanized finish <u>Classic colors</u> DSS Sandstone DGC Charcoal gray DTG Tennis green DBR Bright red DSB Steel blue <u>Class 1 architectural Duranodic Anodize</u> ABL Black ADB Dark bronze ANA Natural <u>Architectural colors and Special Finishes</u> ¹¹ Galvanized, Paint over Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes available.

Notes:

- Wall thickness will be signified with a "C" (11 Gauge) or a "G" (7-gauge) in nomenclature. "C" - 0.1196" | "G" - 0.1793".
- PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, follow this example: DM28/T20. The combination includes a required extra handhole.
- Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.
- Insert "1" or "2" to designate fixture size; e.g. DM19AST2.
- Specify location and orientation when ordering option. For "x": Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a "-". Example: 5ft = 5 and 20ft 3in = 20-3 For "y": Specify orientation from handhole (A,B,C,D) Refer to the Handhole Orientation diagram below. Example: 1/2" coupling at 5' 8", orientation C = CPL12/5-8C.
- Horizontal arm is 18" x 2-3/8" O.D. tenon standard with radius curve providing 12' rise.
- Combination of tenon-top and drill mount includes extra handhole.
- Must add original order number of existing pole(s).
- Use when mill certifications are required.
- Provides enhanced corrosion resistance.
- Additional colors available; see www.lithonia.com/archcolors or Architectural Colors brochure (Form No. 794.3). Available by formal quote only, consult factory for details.

STS Square Tapered Steel Poles

TECHNICAL INFORMATION — EPA (ft²) WITH 3-SECOND GUST PER AASHTO 2013

Series	Mounting Height (ft)*	Shaft Base Size	90 MPH	Max. weight	100 MPH	Max. weight	110 MPH	Max. weight	120 MPH	Max. weight	130 MPH	Max. weight	140 MPH	Max. weight	150 MPH	Max. weight	Approximate ship weight (lbs.)
STS	20	5-2B	12	300	8.5	213	6.5	163	4.5	113	3	75	1.5	38	1	25	155
STS	20	5-5F	26	650	20.5	513	16	400	13	325	10	250	8	200	6	150	235
STS	25	6-0B	9	225	6	150	3.5	88	2	50	0.5	13	-	-	-	-	205
STS	25	6-4F	24.5	613	19	475	14.5	363	11	275	8	200	5.5	138	4	100	310
STS	30	6-4B	5.5	138	3	75	0.5	13	-	-	-	-	-	-	-	-	260
STS	30	6-4F	17.5	438	13	325	9	225	6.5	163	4	100	2	50	0.5	13	375
STS	35	6-8B	2.5	63	-	-	-	-	-	-	-	-	-	-	-	-	305
STS	35	7-1F	13	325	8.5	213	5	125	2.5	63	-	-	-	-	-	-	475
STS	39	7-1F	9.5	238	5.5	138	2.5	63	-	-	-	-	-	-	-	-	500
STS	45	7-8F	4.5	113	1	25	-	-	-	-	-	-	-	-	-	-	620
STS	45	8-7F	8.5	213	3.5	88	-	-	-	-	-	-	-	-	-	-	730
STS	50	8-8F	5	125	-	-	-	-	-	-	-	-	-	-	-	-	780

AASHTO 2013 criteria is the most conservative existing EPA calculation. For poles not showing EPA values under AASHTO 2013, EPA values may exist under commercial criteria (see table below).

*For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

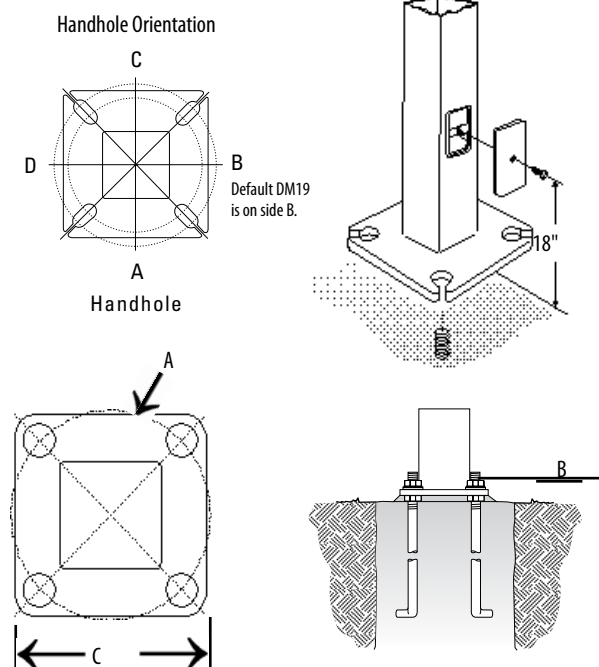
TECHNICAL INFORMATION — EPA (ft²) with 1.3 gust

Catalog Number	Nominal Shaft Length (ft.)*	Pole Shaft Size (Base in. x Top in. x ft.)	Wall thick (in)	Gauge	80 MPH	Max. weight	90 MPH	Max. weight	100 MPH	Max. weight	Bolt size (in. x in. x in.)	Approximate ship weight (lbs.)
STS 20 5-2B	20	5.25 x 3.05 x 20	0.125	11	18	452	13.8	345	10.7	268	1 x 36 x 4	155
STS 20 5-5F	20	5.50 x 3.30 x 20	0.188	7	30.5	764	24	602	19	477	1 x 36 x 4	235
STS 25 6-0B	25	6.00 x 3.25 x 25	0.125	11	16.8	422	12.6	315	9.5	238	1 x 36 x 4	205
STS 25 6-4F	25	6.41 x 3.66 x 25	0.188	7	28.5	713	22.5	563	18.2	455	1 x 36 x 4	310
STS 30 6-4B	30	6.41 x 3.11 x 30	0.125	11	13.6	340	9.8	245	7	175	1 x 36 x 4	260
STS 30 6-4F	30	6.41 x 3.11 x 30	0.188	7	23.6	590	17.9	448	13.7	343	1 x 36 x 4	375
STS 35 6-8B	35	6.81 x 2.96 x 35	0.125	11	10.7	269	7.3	184	4.8	120	1 x 36 x 4	305
STS 35 7-1F	35	7.13 x 3.28 x 35	0.188	7	23.4	585	17.4	435	13	325	1 x 36 x 4	475
STS 39 7-1B	39	7.18 x 2.92 x 39	0.125	11	8.6	215	5.4	135	3	75	1 x 36 x 4	345
STS 39 7-1F	39	7.13 x 2.87 x 39	0.188	7	19.3	483	14.2	355	10.4	260	1 x 36 x 4	500
STS 45 7-8F	45	7.88 x 2.93 x 45	0.188	7	16	400	11.1	278	7.4	187	1 x 36 x 4	620
STS 45 8-7F	45	8.75 x 3.80 x 45	0.188	7	23.5	588	16.6	415	11.4	287	1-1/4 x 42 x 6	730
STS 50 8-8F	50	8.81 x 3.31 x 50	0.188	7	19.4	485	13.2	332	8.7	218	1-1/4 x 42 x 6	780

*For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

STS Square Tapered Steel Poles

BASE DETAIL



POLE DATA					
Shaft base size	Bolt circle A	Bolt projection B	Base diameter C	Template description	Anchor bolt description
5.25" B	10.75"	3.75" - 4.25"	10.75"	ABTEMPLATE PJ50095	AB36-0
5.50" F	11.00"	4.00" - 4.50"	11.00"	ABTEMPLATE PJ50096	AB36-0
6.00" B	12.00"	3.88" - 4.38"	11.50"	ABTEMPLATE PJ50097	AB36-0
6.41" F	12.50"	3.88" - 4.38"	11.88"	ABTEMPLATE PJ50098	AB36-0
6.41" B	12.50"	4.25" - 4.75"	11.88"	ABTEMPLATE PJ50099	AB36-0
6.81" B	13.00"	3.88" - 4.38"	12.25"	ABTEMPLATE PJ50101	AB36-0
7.13" F	13.50"	4.25" - 4.75"	12.63"	ABTEMPLATE PJ50102	AB36-0
7.18" B	13.50"	3.88" - 4.38"	12.63"	ABTEMPLATE PJ50103	AB36-0
7.88" F	14.50"	4.25" - 4.75"	13.38"	ABTEMPLATE PJ50105	AB36-0
8.75" F	15.75"	5.00" - 5.50"	14.25"	ABTEMPLATE PJ50106	AB42-0
8.81" F	16.00"	4.75" - 5.25"	15.50"	ABTEMPLATE PJ50107	AB42-0

IMPORTANT INSTALLATION NOTES:

- Do not erect poles without having fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Lithonia will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage



D-Series Size 0 LED Area Luminaire

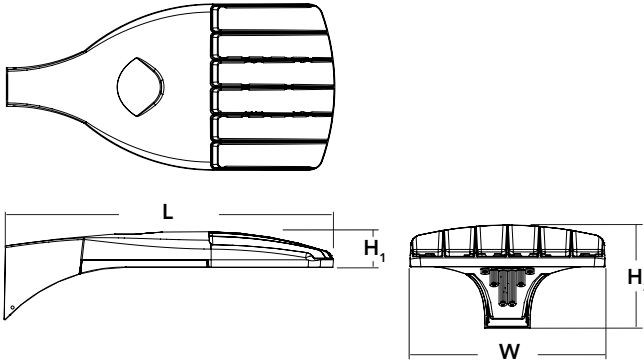


Catalog Number
Notes
Type

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

Specifications

EPA:	0.95 ft ² (.09 m ²)
Length:	26" (66.0 cm)
Width:	13" (33.0 cm)
Height ₁ :	3" (7.62 cm)
Height ₂ :	7" (17.8 cm)
Weight (max):	16 lbs (7.25 kg)



Introduction 20'-0" pole with 2' pole base

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

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED						
Series	LEDs	Color temperature	Distribution		Voltage	Mounting
DSX0 LED	Forward optics	30K 3000 K	T1S Type I short (Automotive)	T5S Type V short ³	MVOLT (120V-277V) ^{5,6}	Shipped included
	P1 P5	40K 4000 K	T2S Type II short	T5M Type V medium ³	XVOLT (277V-480V) ^{7,8,9}	SPA Square pole mounting
	P2 P6	50K 5000 K	T2M Type II medium	T5W Type V wide ³	120 ⁶	RPA Round pole mounting ¹⁰
	P3 P7 ¹		T3S Type III short	BLC Backlight control ⁴	208 ⁶	WBA Wall bracket ³
	P4 ¹		T3M Type III medium	LCCO Left corner cutoff ⁴	240 ⁶	SPUMBA Square pole universal mounting adaptor ¹¹
	Rotated optics		T4M Type IV medium	RCCO Right corner cutoff ⁴	277 ⁶	RPUMBA Round pole universal mounting adaptor ¹¹
	P10 ² P12 ²		TFTM Forward throw medium		347 ⁶	Shipped separately
	P11 ² P13 ^{1,2}		T5VS Type V very short ³		480 ⁶	KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ¹²

Control options	Other options	Finish (required)
Shipped installed NLTAIR2 nLight AIR generation 2 enabled ^{13,14} PIRHN Network, high/low motion/ambient sensor ¹⁵ PER NEMA twist-lock receptacle only (control ordered separate) ¹⁶ PER5 Five-pin receptacle only (control ordered separate) ^{16,17} PER7 Seven-pin receptacle only (leads exit fixture) (control ordered separate) ^{16,17} DMG 0-10V dimming extend out back of housing for external control (control ordered separate) ¹⁸	Shipped installed HS House-side shield ²² SF Single fuse (120, 277, 347V) ⁶ DF Double fuse (208, 240, 480V) ⁶ L90 Left rotated optics ² R90 Right rotated optics ² DDL Diffused drop lens ²² HA 50°C ambient operations ¹ BAA Buy America(n) Act Compliant Shipped separately BS Bird spikes ²³ EGS External glare shield	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white



Ordering Information

Accessories

Ordered and shipped separately.

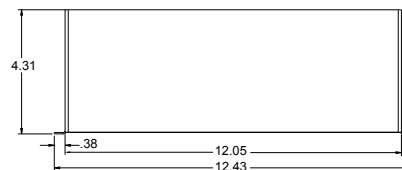
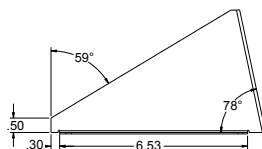
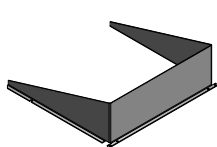
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁴
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁴
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁴
DSHORT SBK U	Shorting cap ²⁴
DSX0HS 20C U	House-side shield for P1,P2,P3 and P4 ²²
DSX0HS 30C U	House-side shield for P10,P11,P12 and P13 ²²
DSX0HS 40C U	House-side shield for P5,P6 and P7 ²²
DSX0DDL U	Diffused drop lens (polycarbonate) ²²
PUMBA DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish) ²⁵
KMA8 DDBXD U	Max arm mounting bracket adaptor (specify finish) ¹²
DSX0EGS (FINISH) U	External glare shield

For more control options, visit [DTL](#) and [ROAM](#) online.
Link to [nLight Air 2](#)

NOTES

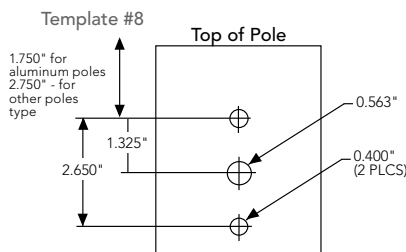
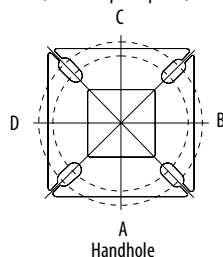
- HA not available with P4, P7, and P13.
- P10, P11, P12 and P13 and rotated options (L90 or R90) only available together.
- Any Type 5 distribution with photocell, is not available with WBA.
- Not available with HS or DDL.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).
- XVOLT only suitable for use with P4, P7 and P13.
- XVOLT operates with any voltage between 277V and 480V.
- XVOLT not available with fusing (SF or DF) and not available with PIR, PIRH, PIR1FC3V, PIRH1FC3V.
- Suitable for mounting to round poles between 3.5" and 12" diameter.
- Universal mounting brackets intended for retrofit on existing pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31. Only usable when pole's drill pattern is NOT Lithonia template #8.
- Must order fixture with SPA mounting. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" diameter mast arm (not included).
- Must be ordered with PIRHN.
- Sensor cover available only in dark bronze, black, white and natural aluminum colors.
- Must be ordered with NLTAIR2. For more information on nLight Air 2 visit [this link](#).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- DMG not available with PIRHN, PER5, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V, FAO.
- Reference Controls Options table on page 4.
- Reference Motion Sensor Default Table on page 4 to see functionality.
- Not available with other dimming controls options.
- Not available with BLC, LCCO and RCCO distribution.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
- For retrofit use only. Only usable when pole's drill pattern is NOT Lithonia template #8

EGS – External Glare Shield



Drilling

HANDHOLE ORIENTATION (from top of pole)



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	2-7/8"	2-7/8"	3.5"	3.5"		3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"		4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

DSX0 Area Luminaire - EPA

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

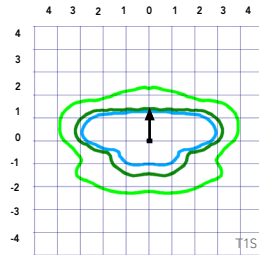
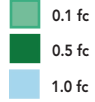
Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX0 LED	0.950	1.900	1.830	2.850	2.850	3.544

Photometric Diagrams

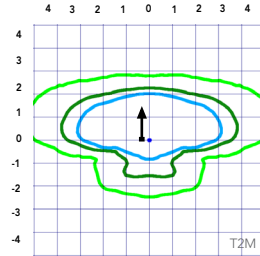
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 0 homepage](#).

Isofootcandle plots for the DSX0 LED 40C 1000 40K. Distances are in units of mounting height (20').

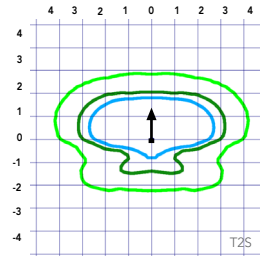
LEGEND



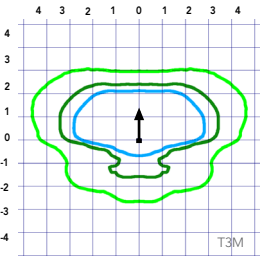
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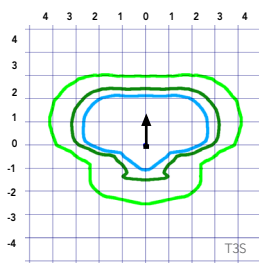
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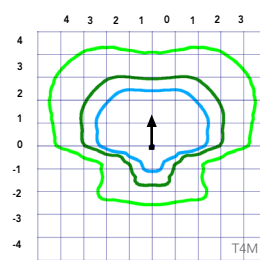
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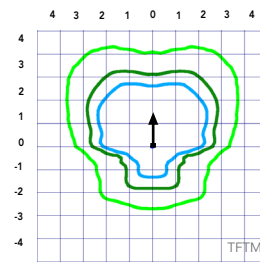
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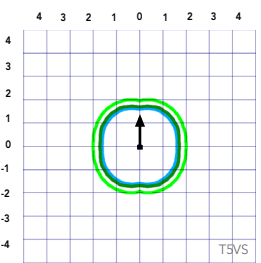
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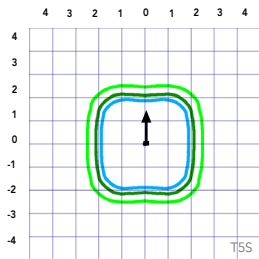
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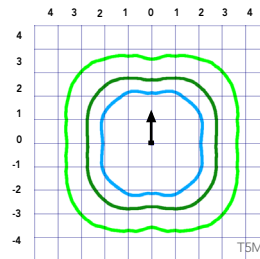
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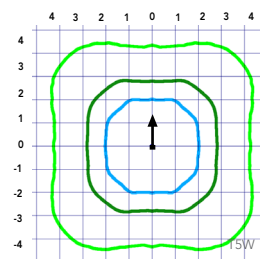
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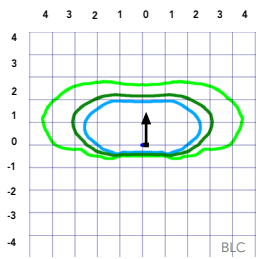
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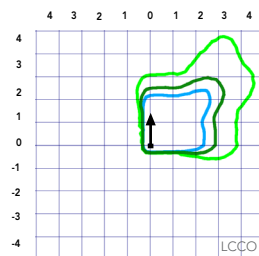
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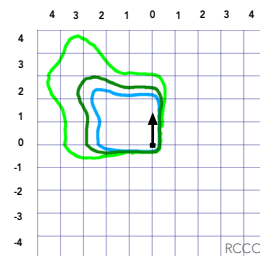
Test No. LTL2345/P25 tested in accordance with IESNA LM-79-08.



Test No.



Test No.



Test No.

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	59°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
25,000	0.96
50,000	0.92
100,000	0.85

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

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

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS 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
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBGR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.

Electrical Load

					Current (A)					
	Performance Package	LED Count	Drive Current	Wattage	120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	20	530	38	0.32	0.18	0.15	0.15	0.10	0.08
	P2	20	700	49	0.41	0.23	0.20	0.19	0.14	0.11
	P3	20	1050	71	0.60	0.37	0.32	0.27	0.21	0.15
	P4	20	1400	92	0.77	0.45	0.39	0.35	0.28	0.20
	P5	40	700	89	0.74	0.43	0.38	0.34	0.26	0.20
	P6	40	1050	134	1.13	0.65	0.55	0.48	0.39	0.29
	P7	40	1300	166	1.38	0.80	0.69	0.60	0.50	0.37
Rotated Optics (Requires L90 or R90)	P10	30	530	53	0.45	0.26	0.23	0.21	0.16	0.12
	P11	30	700	72	0.60	0.35	0.30	0.27	0.20	0.16
	P12	30	1050	104	0.88	0.50	0.44	0.39	0.31	0.23
	P13	30	1300	128	1.08	0.62	0.54	0.48	0.37	0.27

Performance Data

Lumen Output

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

Forward Optics

Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	20	530	38W	T1S	4,369	1	0	1	115	4,706	1	0	1	124	4,766	1	0	1	125
				T2S	4,364	1	0	1	115	4,701	1	0	1	124	4,761	1	0	1	125
				T2M	4,387	1	0	1	115	4,726	1	0	1	124	4,785	1	0	1	126
				T3S	4,248	1	0	1	112	4,577	1	0	1	120	4,634	1	0	1	122
				T3M	4,376	1	0	1	115	4,714	1	0	1	124	4,774	1	0	1	126
				T4M	4,281	1	0	1	113	4,612	1	0	2	121	4,670	1	0	2	123
				TFTM	4,373	1	0	1	115	4,711	1	0	2	124	4,771	1	0	2	126
				TSVS	4,548	2	0	0	120	4,900	2	0	0	129	4,962	2	0	0	131
				TSS	4,552	2	0	0	120	4,904	2	0	0	129	4,966	2	0	0	131
				TSM	4,541	3	0	1	120	4,891	3	0	1	129	4,953	3	0	1	130
				TSW	4,576	3	0	2	120	4,929	3	0	2	130	4,992	3	0	2	131
				BLC	3,586	1	0	1	94	3,863	1	0	1	102	3,912	1	0	1	103
				LCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
				RCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
P2	20	700	49W	T1S	5,570	1	0	1	114	6,001	1	0	1	122	6,077	2	0	2	124
				T2S	5,564	1	0	2	114	5,994	1	0	2	122	6,070	2	0	2	124
				T2M	5,593	1	0	1	114	6,025	1	0	1	123	6,102	1	0	1	125
				T3S	5,417	1	0	2	111	5,835	1	0	2	119	5,909	2	0	2	121
				T3M	5,580	1	0	2	114	6,011	1	0	2	123	6,087	1	0	2	124
				T4M	5,458	1	0	2	111	5,880	1	0	2	120	5,955	1	0	2	122
				TFTM	5,576	1	0	2	114	6,007	1	0	2	123	6,083	1	0	2	124
				TSVS	5,799	2	0	0	118	6,247	2	0	0	127	6,327	2	0	0	129
				TSS	5,804	2	0	0	118	6,252	2	0	0	128	6,332	2	0	1	129
				TSM	5,789	3	0	1	118	6,237	3	0	1	127	6,316	3	0	1	129
				TSW	5,834	3	0	2	119	6,285	3	0	2	128	6,364	3	0	2	130
				BLC	4,572	1	0	1	93	4,925	1	0	1	101	4,987	1	0	1	102
				LCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
				RCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
P3	20	1050	71W	T1S	7,833	2	0	2	110	8,438	2	0	2	119	8,545	2	0	2	120
				T2S	7,825	2	0	2	110	8,429	2	0	2	119	8,536	2	0	2	120
				T2M	7,865	2	0	2	111	8,473	2	0	2	119	8,580	2	0	2	121
				T3S	7,617	2	0	2	107	8,205	2	0	2	116	8,309	2	0	2	117
				T3M	7,846	2	0	2	111	8,452	2	0	2	119	8,559	2	0	2	121
				T4M	7,675	2	0	2	108	8,269	2	0	2	116	8,373	2	0	2	118
				TFTM	7,841	2	0	2	110	8,447	2	0	2	119	8,554	2	0	2	120
				TSVS	8,155	3	0	0	115	8,785	3	0	0	124	8,896	3	0	0	125
				TSS	8,162	3	0	1	115	8,792	3	0	1	124	8,904	3	0	1	125
				TSM	8,141	3	0	2	115	8,770	3	0	2	124	8,881	3	0	2	125
				TSW	8,204	3	0	2	116	8,838	4	0	2	124	8,950	4	0	2	126
				BLC	6,429	1	0	2	91	6,926	1	0	2	98	7,013	1	0	2	99
				LCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
				RCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
P4	20	1400	92W	T1S	9,791	2	0	2	106	10,547	2	0	2	115	10,681	2	0	2	116
				T2S	9,780	2	0	2	106	10,536	2	0	2	115	10,669	2	0	2	116
				T2M	9,831	2	0	2	107	10,590	2	0	2	115	10,724	2	0	2	117
				T3S	9,521	2	0	2	103	10,256	2	0	2	111	10,386	2	0	2	113
				T3M	9,807	2	0	2	107	10,565	2	0	2	115	10,698	2	0	2	116
				T4M	9,594	2	0	2	104	10,335	2	0	3	112	10,466	2	0	3	114
				TFTM	9,801	2	0	2	107	10,558	2	0	2	115	10,692	2	0	2	116
				TSVS	10,193	3	0	1	111	10,981	3	0	1	119	11,120	3	0	1	121
				TSS	10,201	3	0	1	111	10,990	3	0	1	119	11,129	3	0	1	121
				TSM	10,176	4	0	2	111	10,962	4	0	2	119	11,101	4	0	2	121
				TSW	10,254	4	0	3	111	11,047	4	0	3	120	11,186	4	0	3	122
				BLC	8,036	1	0	2	87	8,656	1	0	2	94	8,766	1	0	2	95
				LCCO	5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71
				RCCO	5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71

Performance Data

Lumen Output

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Forward Optics

Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P5	40	700	89W	T1S	10,831	2	0	2	122	11,668	2	0	2	131	11,816	2	0	2	133
				T2S	10,820	2	0	2	122	11,656	2	0	2	131	11,803	2	0	2	133
				T2M	10,876	2	0	2	122	11,716	2	0	2	132	11,864	2	0	2	133
				T3S	10,532	2	0	2	118	11,346	2	0	2	127	11,490	2	0	2	129
				T3M	10,849	2	0	2	122	11,687	2	0	2	131	11,835	2	0	2	133
				T4M	10,613	2	0	3	119	11,434	2	0	3	128	11,578	2	0	3	130
				TFTM	10,842	2	0	2	122	11,680	2	0	2	131	11,828	2	0	2	133
				TSVS	11,276	3	0	1	127	12,148	3	0	1	136	12,302	3	0	1	138
				TSS	11,286	3	0	1	127	12,158	3	0	1	137	12,312	3	0	1	138
				TSM	11,257	4	0	2	126	12,127	4	0	2	136	12,280	4	0	2	138
				TSW	11,344	4	0	3	127	12,221	4	0	3	137	12,375	4	0	3	139
				BLC	8,890	1	0	2	100	9,576	1	0	2	108	9,698	1	0	2	109
				LCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
				RCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
P6	40	1050	134W	T1S	14,805	3	0	3	110	15,949	3	0	3	119	16,151	3	0	3	121
				T2S	14,789	3	0	3	110	15,932	3	0	3	119	16,134	3	0	3	120
				T2M	14,865	3	0	3	111	16,014	3	0	3	120	16,217	3	0	3	121
				T3S	14,396	3	0	3	107	15,509	3	0	3	116	15,705	3	0	3	117
				T3M	14,829	2	0	3	111	15,975	3	0	3	119	16,177	3	0	3	121
				T4M	14,507	2	0	3	108	15,628	3	0	3	117	15,826	3	0	3	118
				TFTM	14,820	2	0	3	111	15,965	3	0	3	119	16,167	3	0	3	121
				TSVS	15,413	4	0	1	115	16,604	4	0	1	124	16,815	4	0	1	125
				TSS	15,426	3	0	1	115	16,618	4	0	1	124	16,828	4	0	1	126
				TSM	15,387	4	0	2	115	16,576	4	0	2	124	16,786	4	0	2	125
				TSW	15,506	4	0	3	116	16,704	4	0	3	125	16,915	4	0	3	126
				BLC	12,151	1	0	2	91	13,090	1	0	2	98	13,255	1	0	2	99
				LCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
				RCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
P7	40	1300	166W	T1S	17,023	3	0	3	103	18,338	3	0	3	110	18,570	3	0	3	112
				T2S	17,005	3	0	3	102	18,319	3	0	3	110	18,551	3	0	3	112
				T2M	17,092	3	0	3	103	18,413	3	0	3	111	18,646	3	0	3	112
				T3S	16,553	3	0	3	100	17,832	3	0	3	107	18,058	3	0	3	109
				T3M	17,051	3	0	3	103	18,369	3	0	3	111	18,601	3	0	3	112
				T4M	16,681	3	0	3	100	17,969	3	0	3	108	18,197	3	0	3	110
				TFTM	17,040	3	0	3	103	18,357	3	0	4	111	18,590	3	0	4	112
				TSVS	17,723	4	0	1	107	19,092	4	0	1	115	19,334	4	0	1	116
				TSS	17,737	4	0	2	107	19,108	4	0	2	115	19,349	4	0	2	117
				TSM	17,692	4	0	2	107	19,059	4	0	2	115	19,301	4	0	2	116
				TSW	17,829	5	0	3	107	19,207	5	0	3	116	19,450	5	0	3	117
				BLC	13,971	2	0	2	84	15,051	2	0	2	91	15,241	2	0	2	92
				LCCO	10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68
				RCCO	10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68

Performance Data

Lumen Output

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Rotated Optics

Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	30	530	53W	T1S	6,727	2	0	2	127	7,247	3	0	3	137	7,339	3	0	3	138
				T2S	6,689	3	0	3	126	7,205	3	0	3	136	7,297	3	0	3	138
				T2M	6,809	3	0	3	128	7,336	3	0	3	138	7,428	3	0	3	140
				T3S	6,585	3	0	3	124	7,094	3	0	3	134	7,183	3	0	3	136
				T3M	6,805	3	0	3	128	7,331	3	0	3	138	7,424	3	0	3	140
				T4M	6,677	3	0	3	126	7,193	3	0	3	136	7,284	3	0	3	137
				TFTM	6,850	3	0	3	129	7,379	3	0	3	139	7,472	3	0	3	141
				TSVS	6,898	3	0	0	130	7,431	3	0	0	140	7,525	3	0	0	142
				TSS	6,840	2	0	1	129	7,368	2	0	1	139	7,461	2	0	1	141
				TSM	6,838	3	0	1	129	7,366	3	0	2	139	7,460	3	0	2	141
				TSW	6,777	3	0	2	128	7,300	3	0	2	138	7,393	3	0	2	139
				BLC	5,626	2	0	2	106	6,060	2	0	2	114	6,137	2	0	2	116
				LCCO	4,018	1	0	2	76	4,328	1	0	2	82	4,383	1	0	2	83
				RCCO	4,013	3	0	3	76	4,323	3	0	3	82	4,377	3	0	3	83
P11	30	700	72W	T1S	8,594	3	0	3	119	9,258	3	0	3	129	9,376	3	0	3	130
				T2S	8,545	3	0	3	119	9,205	3	0	3	128	9,322	3	0	3	129
				T2M	8,699	3	0	3	121	9,371	3	0	3	130	9,490	3	0	3	132
				T3S	8,412	3	0	3	117	9,062	3	0	3	126	9,177	3	0	3	127
				T3M	8,694	3	0	3	121	9,366	3	0	3	130	9,484	3	0	3	132
				T4M	8,530	3	0	3	118	9,189	3	0	3	128	9,305	3	0	3	129
				TFTM	8,750	3	0	3	122	9,427	3	0	3	131	9,546	3	0	3	133
				TSVS	8,812	3	0	0	122	9,493	3	0	0	132	9,613	3	0	0	134
				TSS	8,738	3	0	1	121	9,413	3	0	1	131	9,532	3	0	1	132
				TSM	8,736	3	0	2	121	9,411	3	0	2	131	9,530	3	0	2	132
				TSW	8,657	4	0	2	120	9,326	4	0	2	130	9,444	4	0	2	131
				BLC	7,187	3	0	3	100	7,742	3	0	3	108	7,840	3	0	3	109
				LCCO	5,133	1	0	2	71	5,529	1	0	2	77	5,599	1	0	2	78
				RCCO	5,126	3	0	3	71	5,522	3	0	3	77	5,592	3	0	3	78
P12	30	1050	104W	T1S	12,149	3	0	3	117	13,088	3	0	3	126	13,253	3	0	3	127
				T2S	12,079	4	0	4	116	13,012	4	0	4	125	13,177	4	0	4	127
				T2M	12,297	3	0	3	118	13,247	3	0	3	127	13,415	3	0	3	129
				T3S	11,891	4	0	4	114	12,810	4	0	4	123	12,972	4	0	4	125
				T3M	12,290	3	0	3	118	13,239	4	0	4	127	13,407	4	0	4	129
				T4M	12,058	4	0	4	116	12,990	4	0	4	125	13,154	4	0	4	126
				TFTM	12,369	4	0	4	119	13,325	4	0	4	128	13,494	4	0	4	130
				TSVS	12,456	3	0	1	120	13,419	3	0	1	129	13,589	4	0	1	131
				TSS	12,351	3	0	1	119	13,306	3	0	1	128	13,474	3	0	1	130
				TSM	12,349	4	0	2	119	13,303	4	0	2	128	13,471	4	0	2	130
				TSW	12,238	4	0	3	118	13,183	4	0	3	127	13,350	4	0	3	128
				BLC	10,159	3	0	3	98	10,944	3	0	3	105	11,083	3	0	3	107
				LCCO	7,256	1	0	3	70	7,816	1	0	3	75	7,915	1	0	3	76
				RCCO	7,246	3	0	3	70	7,806	4	0	4	75	7,905	4	0	4	76
P13	30	1300	128W	T1S	14,438	3	0	3	113	15,554	3	0	3	122	15,751	3	0	3	123
				T2S	14,355	4	0	4	112	15,465	4	0	4	121	15,660	4	0	4	122
				T2M	14,614	3	0	3	114	15,744	4	0	4	123	15,943	4	0	4	125
				T3S	14,132	4	0	4	110	15,224	4	0	4	119	15,417	4	0	4	120
				T3M	14,606	4	0	4	114	15,735	4	0	4	123	15,934	4	0	4	124
				T4M	14,330	4	0	4	112	15,438	4	0	4	121	15,633	4	0	4	122
				TFTM	14,701	4	0	4	115	15,836	4	0	4	124	16,037	4	0	4	125
				TSVS	14,804	4	0	1	116	15,948	4	0	1	125	16,150	4	0	1	126
				TSS	14,679	3	0	1	115	15,814	3	0	1	124	16,014	3	0	1	125
				TSM	14,676	4	0	2	115	15,810	4	0	2	124	16,010	4	0	2	125
				TSW	14,544	4	0	3	114	15,668	4	0	3	122	15,866	4	0	3	124
				BLC	7,919	3	0	3	62	8,531	3	0	3	67	8,639	3	0	3	67
				LCCO	5,145	1	0	2	40	5,543	1	0	2	43	5,613	1	0	2	44
				RCCO	5,139	3	0	3	40	5,536	3	0	3	43	5,606	3	0	3	44

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

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 driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (0.95 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.

OPTICS

Precision-molded proprietary acrylic 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. The D-Series Size 0 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) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX0 LED area luminaire has a number of control options. DSX Size 0, comes standard with 0-10V dimming driver. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS

The DSX0 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 luminaires 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 Eclipse. Additional information about nLight Air can be found [here](#).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 0 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 0 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block and NEMA photocontrol receptacle are also available.

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C to 50°C ambient with HA option. U.S. Patent No. D672,492 S. International patent pending.

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

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

BUY AMERICAN

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

WARRANTY

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

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.





YVRA QTA Land Use Review Pre-Application Meeting

Project Name: YVRA QTA Facility
Mead & Hunt Project No.: 3095800-220220.01

Project No.:
Date: 01/25/2022

The attached report represents this writer's interpretation of items discussed during the meeting. Any corrections or additional information should be brought to our attention for clarification.

Meeting attendees

NAME	ROLE	COMPANY	
Mary Alice Page-Allen	Planning & Zoning Official	Town of Hayden	✓
Bryan Richards	Public Works Official	Town of Hayden	✓
Kevin Booth	Airport Director	YVRA	✓
Jeremy Lee	Civil Engineer	M&H	✓
Lauren Rasmussen	Civil Engineer	M&H	✓
Jared Easterlin	Civil Engineer	M&H	✓
Bret Kudlicki	Architect, PM	M&H	✓
Andrew Pulliam	Architect	M&H	✓

1. SCHEDULE

- Submittal timeframe
 - HDN Quick Turnaround (QTA) land use application should be submitted by 02/14/2022 to stay on track for desired 03/10/2022 approval.
 - 02/22/2022 is the hard deadline for the application to be deemed complete to stay on track for the desired approval date noted above.

2. DESIGN ITEMS

- Wastewater & tie-in to force main
 - Mary Alice (MP) and Bryan (BR) noted that the Town of Hayden is thinking about the QTA project in the context of future development in the area. Future developments will utilize capacity within the wastewater force main system, likely resulting in the need for enhancing/expanding the system. MP and BR highlighted the importance of understanding the QTA's impact on the system, and the desire for the airport and design team be available for conversation to inform the larger topic of the wastewater infrastructure in the area.
 - MP noted the requirement for a wastewater characterization study to be included in the QTA land use application package. The study should address wastewater materials, as well as overall peak flow.
 - BR noted that the QTA wastewater study should include provisions for a pretreatment system in the wastewater design. The water supply connection to the building should include a testable backflow assembly. M&H noted that an oil/sand separator typical of other HDN airport facilities will be included for pretreatment of wastewater.
 - Kevin Booth (KB) asked about the framework for reviewing the project in terms of the current force main capacity. The group discussed that the assumption of the project would be that it

is configured to be compatible with the current force main system. If other future development in the vicinity requires modification of the force main system, a retrofit connection of the QTA to a newer system would be viable and addressed at that time.

- Piper Lane Improvements
 - MP inquired whether any of the airport property on Piper Lane would be vacated as part of the development. KB confirmed that it would not be vacated.
 - MP noted that road improvements were to be in accordance with Routt Co. Road & Bridge standards.
 - MP asked about the intended schedule for non-building improvements, noting that the building TCO/CO may be tied to an improvement agreement or security for work to be completed. The M&H team noted that the road improvements should commence by late summer to early fall, and are intended to be complete at the time of occupancy of the QTA building in November.

3. APPLICATION CONTENTS

- The following contents of the land use application were discussed:
 - A drainage study including integration with landscape design elements should be included.
 - The narrative submitted in the pre-application package is acceptable for the land use application.
 - Landscape and open space plan information can be consolidated on main site plan rather than being separate items.
 - Trash facilities should be identified, and any screening requirements addressed.
 - Fences and gates included in project scope should be identified and should conform to development standards.
 - Lighting information should be provided to indicate conformance to the AO zone lighting standards and the HDN airport standards. Documentation of photometrics will not be required.
 - Architectural content as provided in the pre-application package is acceptable for the land use applications (plans, sections, elevations). Exterior materials and signage attached to the building should be included. The design team is expected to identify the final design direction for the roof in the building documentation.
 - KB will be the applicant for the land use application.
 - The following items noted in application checklist will not be required:
 - L. Gathering areas for people
 - LL. Land use chart,
 - MM. Certificate blocks are not required.

HDN QTA WASTEWATER SYSTEM CHARACTERIZATION

A. SANITARY SYSTEM

(1) FIXTURES

The facility will contain:

- (2) water closets
- (2) lavatories
- (1) sink
- (1) mop basin
- (1) floor drain in the mechanical room
- (3) trench drains in vehicle cleaning bays

The total drainage fixture units of the building is 38 DFU.

(2) OIL/SAND SEPARATOR

The trench drains are collected by a 4" sanitary line routed through an oil/sand separator with a 250 gal liquid capacity, 144 gal oil capacity, and a 95 gal sand capacity. Maintenance of the separator will be performed regularly by the airport staff in accordance with the manufacturer's recommendations. Product data for the basis-of design separator equipment is attached on the following page.

(3) LIFT STATION

A separate 4" sanitary line serving the building plumbing fixtures will combine with the 4" sanitary line downstream of the oil/sand separator and terminate into a duplex lifting station with a 2" pumped discharge. The controls and alarm for the duplex lifting station will be housed on the face of the building to facilitate access for maintenance & system management. The multi-component system will be specified in the project construction documents and will include recommendations for regular operation and maintenance.

SPECIFICATIONS

- 1. 4" Plain End inlet/outlet, 3" Plain End vents.
- 2. Max flow rate: 100 GPM
- 3. Capacities: Liquid: 250 gal. (33.4 cu. ft.); Oil: 144 gal.; Sand: 95 gal.
- 4. Unit weight with composite cover: 230 lbs.; with cast iron: 346 lbs.
- 5. Maximum operating temperature 140 °F continuous.
- 6. Highway rated covers: 16,000 lb. capacity.

NOTES

- 1. Snap-in Flow control (ships with unit).
- 2. Seamless medium density polyethylene tank.
- 3. Unit supplied with built-in adapter for up to 6" of adjustability. Additional riser(s) available for deeper burial depth.
- 4. Cover placement allows full access to tank for proper maintenance.
- 5. Narrow footprint allows clearance through doorways and down stairs.
- 6. Engineered inlet and outlet diffusers are removable to inspect/clean piping.
- 7. For on the-floor or buried applications.

DIFFUSION FLOW TECHNOLOGY

The inlet diffuser splits influent into three paths, creating laminar flow and utilizing the entire liquid volume of the tank for efficient oil separation. The calibrated openings greatly reduce influent turbulence. The influent enters the main chamber without disturbing the existing oil or sand layers. The bottom of the outlet diffuser allows only effluent that is free of oil to exit the tank.

ENGINEER SPECIFICATION GUIDE

Striem Oil Reserve™ oil/sand separator model OS-100 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene. Separator shall be furnished for above or below grade installation, with field adjustable riser system, snap-in flow control and (2) vent connections. Separator flow rate shall be 100 GPM. Separator oil capacity shall be 144 gallons. Sand capacity shall be 95 gallons. Covers shall provide water/gas-tight seal and have a maximum 16,000 lbs load capacity.

THIRD PARTY STRUCTURAL ANALYSIS

The OS-100 has been structurally analyzed in accordance with the requirements of IBC 2012 and ASCE/SEI 7 for direct burial. The maximum burial depth and backfill material are specified in our installation instructions. The structural design has been reviewed and sealed by a professional engineer registered in the state of California. A sealed structural analysis report is available upon request.

OPTIONS

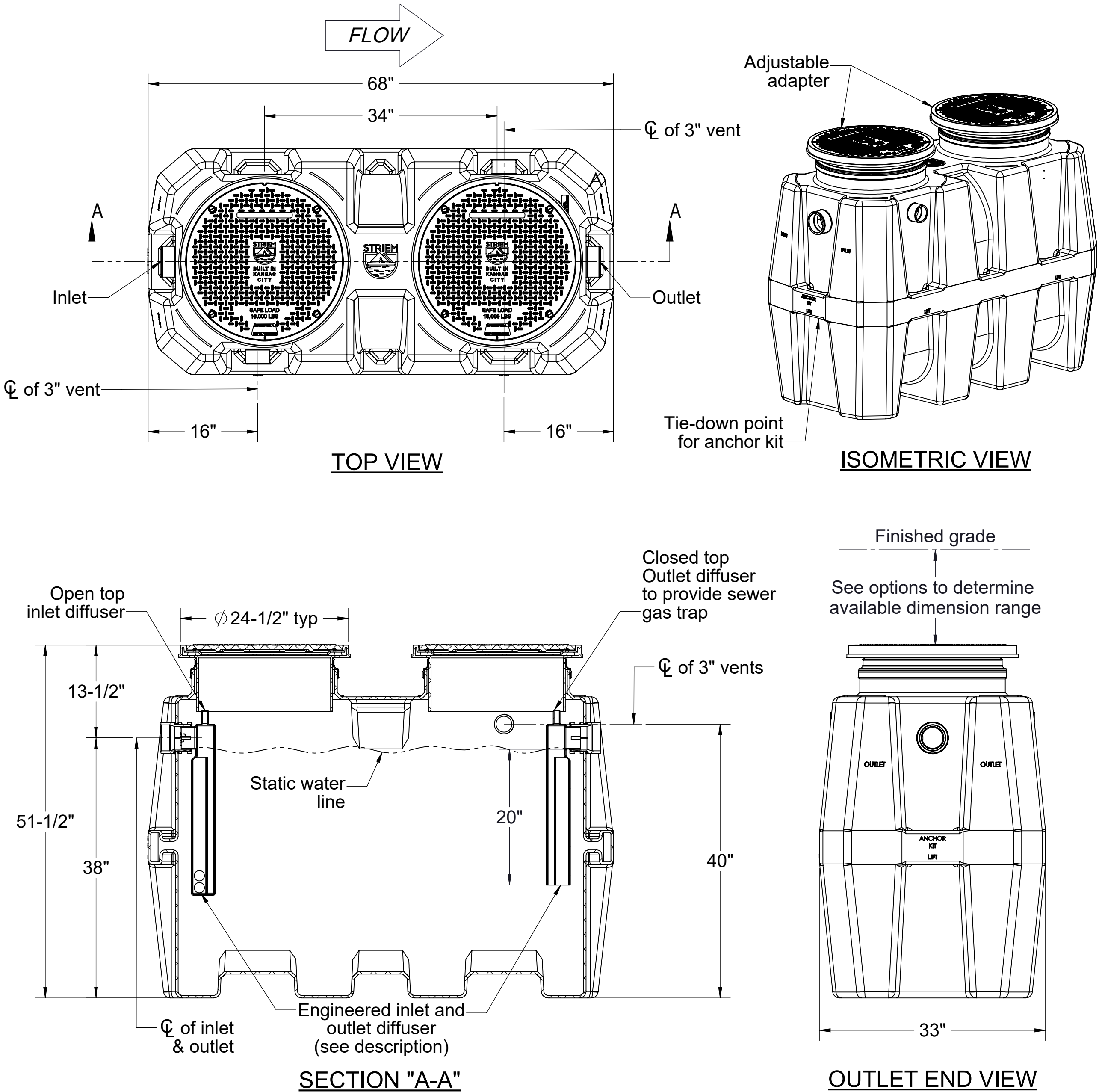
- ☐ 4M - 4" Male Thread Inlet / Outlet
- ☐ 6P - 6" Plain End SCH.40 Inlet / Outlet
- ☐ 6M - 6" Male Thread Inlet / Outlet
- ☐ C24-HP (2) - H20 Rated Pickable Cast Iron Cover
- ☐ CC24 (2) - Integral Membrane Clamping Collar Kit
- ☐ CS3 - Clean Sweep Coalescing Media (single)
- ☐ CS6 - Clean Sweep Coalescing Media (double)
- ☐ AK1 - High Water Anchor Kit

TeleGlide RISER OPTIONS

- ☐ SR24 (2) - >6"-24"
- ☐ LR24 (2) - >24"-39"
- ☐ SR24 (4) - >39"-43"
- ☐ SR24 (2) + LR24 (2) - >43"-58"
- ☐ LR24 (4) - >58"-72"

PROPRIETARY AND CONFIDENTIAL

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MODEL NUMBER:		OS-100	
DESCRIPTION:		100 GPM POLYETHYLENE OIL/SAND SEPARATOR	
DWG BY:	MJ	DATE:	04/29/2020
REV:	0	ECO:	

SPECIFICATION SHEET

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