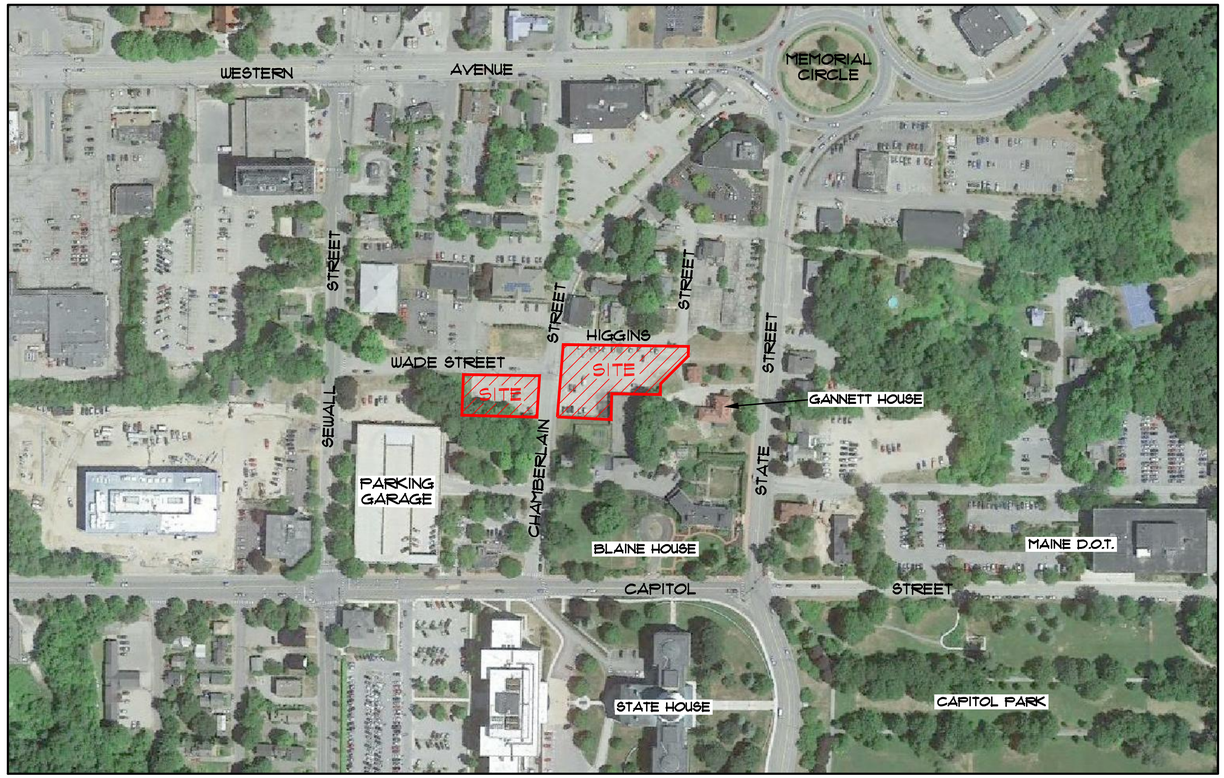


CHAMBERLAIN STREET PARKING LOT IMPROVEMENTS

BID PLAN SET - APRIL 5, 2021

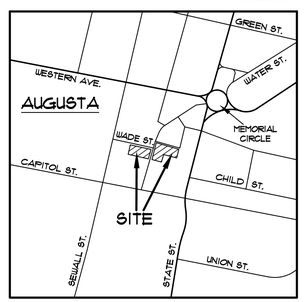
Allied Engineering
Structural Mechanical Electrical

160 Veranda Street
Portland, Maine 04103
T: 207.221.2260
F: 207.221.2266
Web: www.allied-eng.com

SJR ENGINEERING, INC.
16 THURSTON DRIVE
MONMOUTH, MAINE 04259
(207) 242-6248 tel
steve@sjreng.com

SHEET INDEX

SHEET 1 - EXISTING CONDITIONS PLAN
SHEET 2 - SITE & DEMOLITION PLAN
SHEET 3 - TOPOGRAPHIC & UTILITY PLAN
SHEET 4 - CONSTRUCTION DETAILS & NOTES
SHEET 5 - WATERSHED PLAN
ELECTRICAL PLAN - SHEET 1
ELECTRICAL PLAN - SHEET 2



LOCATION MAP

LANDSCAPE NOTE

BUFFER YARD "A" (15' WIDE) LANDSCAPING REQUIREMENTS - PLANTINGS PER 100 LINEAR FEET

A) 2 - CANOPY TREES (2" TO 2½" CALIPER)
B) 4 - UNDERSTORY TREES (1¾" TO 2" CALIPER)
C) 6 - DECIDUOUS SHRUBS (18" MATURE HEIGHT)

SEE SECTION 300-B02 OF THE CITY OF AUGUSTA LAND USE CODE FOR MORE INFORMATION.

LANDSCAPE LEGEND

25 - DECIDUOUS SHRUB

8 - CANOPY AND/OR EVERGREEN TREE

17 - UNDERSTORY TREE

NOTES

1) THIS IS NOT A BOUNDARY SURVEY. NO WARRANTY IS MADE TO THE INFORMATION SHOWN ON THIS PLAN. THIS SCHEMATIC WAS PREPARED TO SHOW PROPOSED IMPROVEMENTS TO THE PARKING AREAS.

2) EXISTING CONDITIONS IS BASED ON AERIAL ORTHOPHOTOS AND 2' LIDAR CONTOURS DOWNLOADED FROM THE MAINE G.I.S. WEBSITE. BOUNDARY LINES ARE APPROXIMATE AND ARE BASED ON EXISTING RECORDED PLANS, TAX MAPS AND DEED INFORMATION.

3) THE LOCATION, DEPTH, SIZE AND EXISTENCE OF ALL UNDERGROUND UTILITY LINES, TANKS AND/OR STRUCTURES WAS NOT DETERMINED. CONTRACTOR SHALL CONTACT DIGSAFE/ON-TARGET PRIOR TO EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF ALL PUBLIC AND PRIVATE UNDERGROUND UTILITIES PRIOR TO EXCAVATION.

4) THE PARCELS ARE LOCATED IN THE BUSINESS / PROFESSIONAL ZONING DISTRICT ("BP").

LEGEND

	APPROXIMATE BOUNDARY LINE
N/F	NOW OR FORMERLY
12,187/237	BOOK AND PAGE NUMBER
	EXISTING CATCH BASIN
	EXISTING SEWER MANHOLE
	NEW LIGHT POLE
	PROPOSED CATCH BASIN
	NEW TREE LINE
	EXISTING TREE LINE
	UTILITY POLE WITH OVERHEAD WIRES
	EXISTING BUILDING
	EXISTING PAVEMENT
	PROPOSED PAVEMENT
	REMOVE EXISTING PAVEMENT

SCALE : 1" = 20'

0 10 20 40 60 80

REV:	BY:	DATE:	CHANGES:
3	SJR	MAR. 6, 2021	REMOVE ABUTTER CONSTRUCTION
2	SJR	MAR. 2, 2021	CHANGES PER CITY REVIEW
1	SJR	FEB. 1, 2010	TEXT REVISIONS

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SJR ENGINEERING, INC.

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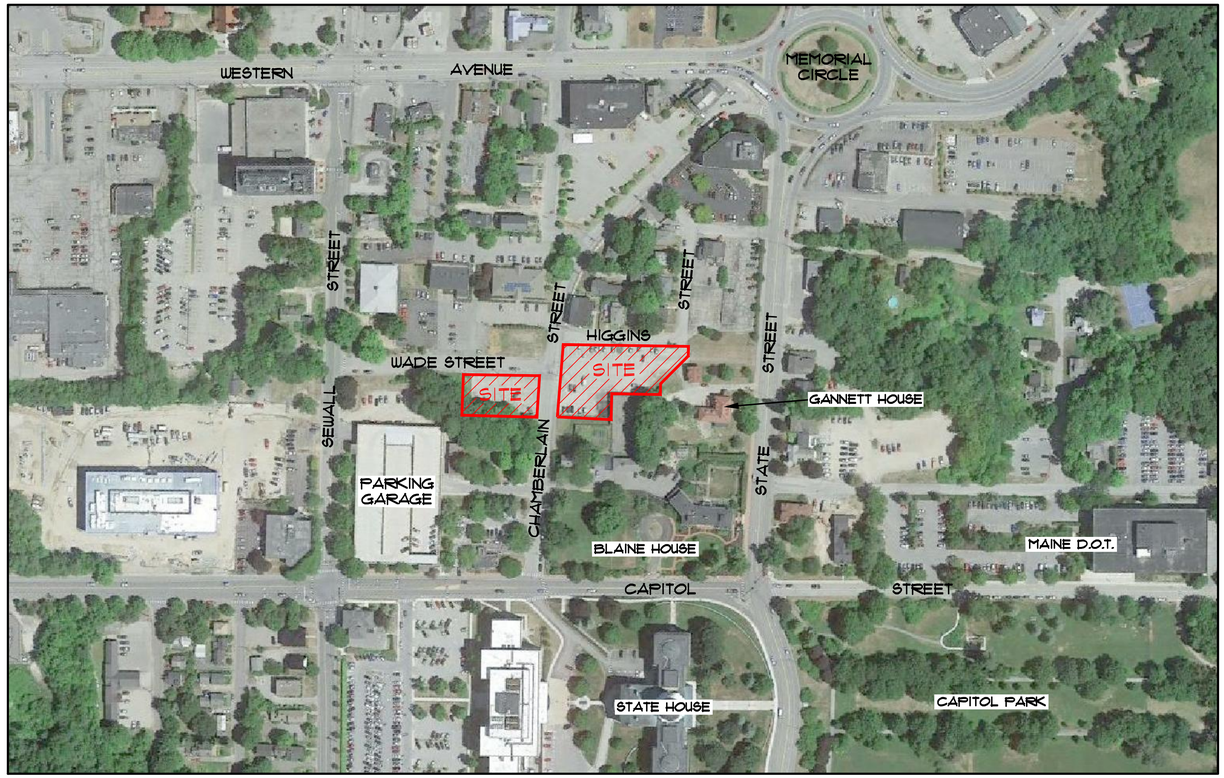
AERIAL OVERLAY
CHAMBERLAIN STREET PARKING LOT IMPROVEMENTS

PREPARED FOR
STATE OF MAINE
BUREAU OF REAL ESTATE MANAGEMENT

DATE	PROJECT
JAN. 2010	2019-39
DRAWN BY	SCALE
SJR	1" = 20'

SHEET 1



CHAMBERLAIN STREET PARKING LOT IMPROVEMENTS

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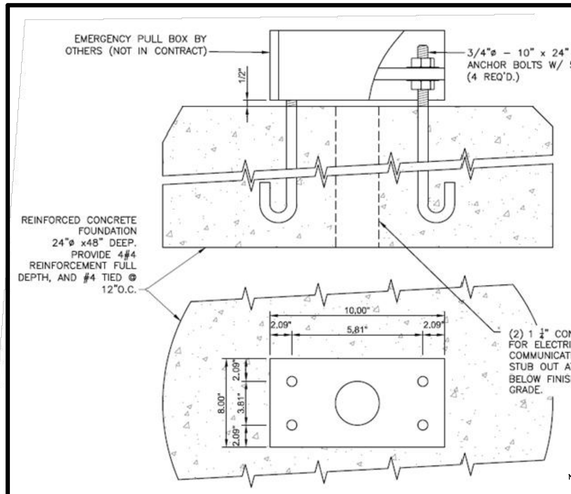
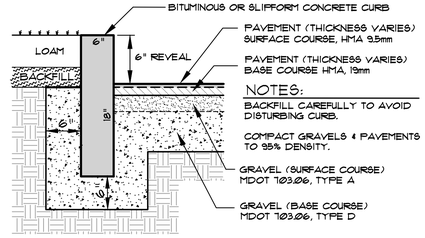


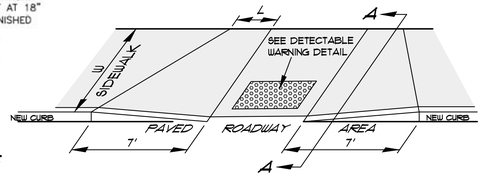
EMERGENCY PULL STATION FOUNDATION DETAIL

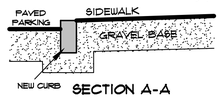
NOT TO SCALE



CURBING INSTALLATION

NOT TO SCALE





SECTION A-A

W	L
4'-0"	3'-6"±
5'-0"	2'-9"±
6'-0"	6'-0"
7'-0"	7'-0"
8'-0"	8'-0"

NOTES:

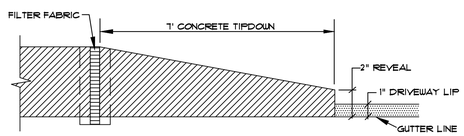
1) THE DIMENSIONS SHOWN AT ROADWAY EDGE ARE FIXED DISTANCES.

2) RAMP CROSS SECTION TO BE SAME AS ADJACENT SIDEWALK (DEPTH OF SURFACE AND FOUNDATION)

3) IN NO CASE ARE THE RAMPS TO BE PLACED BEHIND THE STOP LINE.

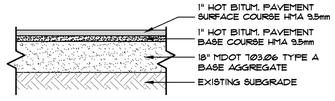
NEW CURB PLACEMENT AT SIDEWALK TIPDOWN

NOT TO SCALE



TYPICAL TIPDOWN CURB INSTALLATION

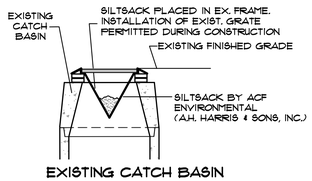
NOT TO SCALE



COMPACT GRAVELS & PAVEMENTS TO 95% DENSITY

SIDEWALK CROSS SECTION

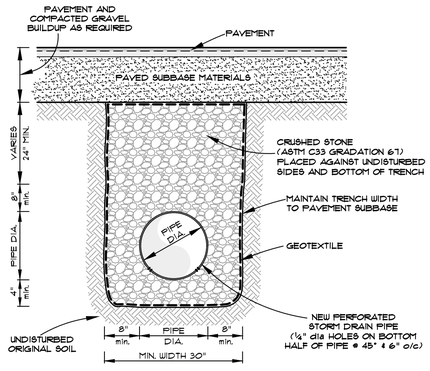
NOT TO SCALE



EXISTING CATCH BASIN

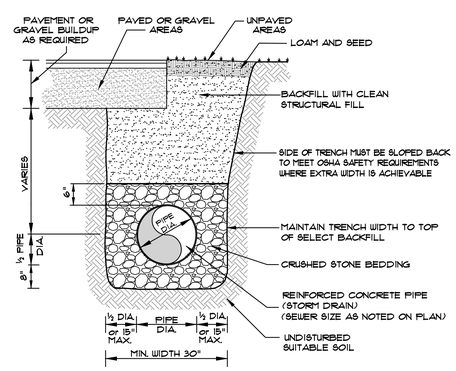
SILTSACK DETAIL

NOT TO SCALE



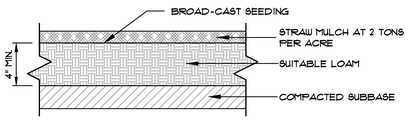
UNDERDRAIN TRENCH DETAIL

NOT TO SCALE



STORM DRAIN TRENCH DETAIL

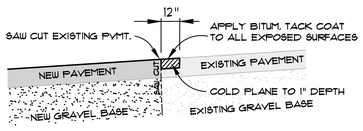
NOT TO SCALE



PERMANENT SEED MIX	APPLICATION RATE
	lbs/1000 sf
KENTUCKY BLUEGRASS	.46
CREEPING RED FESCUE	.46
PERENNIAL RYEGRASS	.11
TOTAL SEED RATE	1.03

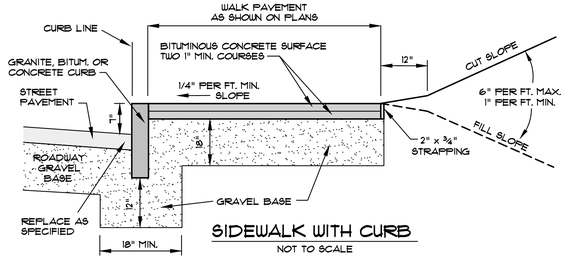
LOAM & SEED DETAIL

NOT TO SCALE



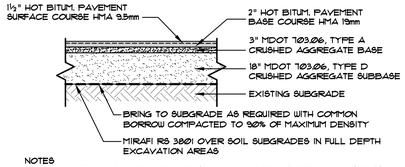
PAVEMENT SAW CUT

NOT TO SCALE



SIDEWALK WITH CURB

NOT TO SCALE



NOTES

1) COMPACT GRAVEL SUBBASE, BASE COURSE TO 95% OF THEIR MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.

2) HOT MIX ASPHALT PAVEMENT MUST BE COMPACTED TO 92%-97% OF ITS THEORETICAL MAXIMUM DENSITY AS DETERMINED BY ASTM D-2041.

3) A TACK COAT MUST BE USED BETWEEN SUCCESSIVE LIFTS OF BITUMINOUS PAVEMENT.

4) PROVIDE NON-FROST SUSCEPTIBLE COMPACTED FILL GRANULAR BORROW OR FRACTURED ROCK FILL BELOW PAVEMENT IN FILL AREAS.

5) CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

REGULAR DUTY PAVEMENT (FULL DEPTH AREA)

NOT TO SCALE

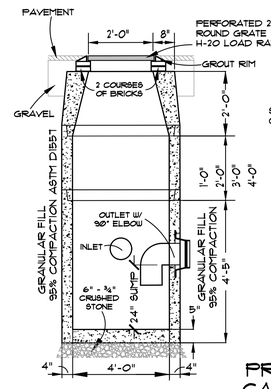
EROSION CONTROL NOTES

1) ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED (HAY MULCH) WITHIN 14 DAYS (7 CALENDAR DAYS IN A LAKE WATERSHED OR DURING WINTER CONSTRUCTION) OR PRIOR TO A SIGNIFICANT RAINFALL EVENT IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES (BMPs).

2) SITE INSPECTION & MAINTENANCE DURING CONSTRUCTION: WEEKLY INSPECTIONS, AS WELL AS ROUTINE INSPECTIONS FOLLOWING RAINFALLS, SHALL BE CONDUCTED BY THE GENERAL SITE CONTRACTOR OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES UNTIL FINAL ACCEPTANCE OF THE PROJECT (85% GRASS CATCH.) NECESSARY REPAIRS SHALL BE MADE TO CORRECT UNDERMINING OR DETERIORATION. FINAL ACCEPTANCE SHALL INCLUDE A SITE INSPECTION TO VERIFY THE STABILITY OF ALL DISTURBED AREAS AND SLOPES, UNTIL FINAL INSPECTION, ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL IMMEDIATELY BE CLEANED AND REPAIRED BY THE GENERAL CONTRACTOR AS REQUIRED. DISPOSAL OF ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

3) MAINTENANCE AGREEMENT: SHORT-TERM SEDIMENTATION MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR (TO CLEAN OUT ALL SWALES AND STRUCTURES) PRIOR TO TURNING PROJECT OVER TO THE OWNER. AFTER PROJECT TURNOVER, THE OWNER SHALL BE THE RESPONSIBLE PARTY FOR INSPECTION AND THE PROPER FUNCTIONING OF ALL STORMWATER CONVEYANCE PRACTICES AND MEASURES. THE OWNER MAY ASSIGN AN ENVIRONMENTAL MANAGER TO CARRY OUT SPECIFIC TASKS IDENTIFIED BELOW.

4) CATCH BASIN/FIELD INLETS: ALL CATCH BASINS, AND ANY OTHER FIELD INLETS THROUGHOUT THE COLLECTION SYSTEM, NEED TO BE INSPECTED ON A MONTHLY BASIS TO ENSURE THAT THE INLET ENTRY POINT IS CLEAR OF DEBRIS AND WILL ALLOW THE INTENDED WATER ENTRY. AT THAT TIME, THESE WILL BE CLEARED IF NECESSARY. ON A YEARLY BASIS, OR WHEN SEDIMENT REACHES TWO THIRDS OF THE TOTAL VOLUME, CATCH BASINS NEED TO BE VACUUMED AND CLEANED OF ALL ACCUMULATED SEDIMENT. WORK MUST BE DONE BY A VACUUM TRUCK. THE REMOVED MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH STATE OF MAINE SOLID WASTE DISPOSAL RULES.



STRUCTURES AND COVERS TO MEET CITY OF AUGUSTA STANDARDS

NOTES:

1. CONCRETE: 4000 PSI AFTER 28 DAYS.

2. REINFORCING: H-20 LOADING, 4X4/4X4 WWM.

3. 3" SHIPLAP JOINTS SEALED WITH ONE STRIP OF BUTYL RUBBER SEALANT.

4. EACH CASTING TO HAVE LIFTING HOLES CAST IN.

5. PIPE OPENINGS CAST IN AS REQUIRED.

6. 8" THICK H-20 SLAB TOP AVAILABLE.

PRECAST CONCRETE CATCH BASIN DETAIL

NOT TO SCALE

GENERAL NOTES

1) THE CONTRACT WORK TO BE PERFORMED ON THIS PROJECT CONSISTS OF FURNISHING ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, IMPLEMENTS, PARTS AND SUPPLIES NECESSARY FOR, OR APPURTENANT TO, THE INSTALLATION OF CONSTRUCTION IMPROVEMENTS IN ACCORDANCE WITH THESE DRAWINGS AND AS FURTHER ELABORATED IN ANY ACCOMPANYING SPECIFICATIONS.

2) THE WORK SHALL BE PERFORMED IN A THOROUGH WORKMANLIKE MANNER. ALL CONTRACTORS ARE TO CONFORM TO ALL APPLICABLE OSHA STANDARDS. ANY REFERENCE TO A SPECIFICATION OR DESIGNATION OF THE AMERICAN SOCIETY FOR TESTING MATERIALS, FEDERAL SPECIFICATIONS, OR OTHER STANDARDS, CODES OR ORDERS, REFERS TO THE MOST RECENT OR LATEST SPECIFICATION OR DESIGNATION.

3) ALL CONSTRUCTION WITHIN THE CITY OF AUGUSTA RIGHT OF WAY SHALL COMPLY WITH CITY PUBLIC WORKS. ALL CONSTRUCTION WITHIN A STATE RIGHT OF WAY SHALL COMPLY WITH MAINE DOT STANDARDS. ALL UTILITY CONSTRUCTION SHALL CONFORM TO RESPECTIVE UTILITY STANDARDS.

4) THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY OF AUGUSTA REQUIRED TO PERFORM ALL THE WORK (STREET OPENINGS, BUILDING PERMIT, ETC.). THE CONTRACTOR SHALL POST ALL BONDS AS REQUIRED, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.

5) PRIOR TO CONSTRUCTION, THE SITE CONTRACTOR IS TO INFORM ALL AREA UTILITY COMPANIES AND GOVERNMENTAL AGENCIES OF PLANNED CONSTRUCTION. THE SITE CONTRACTOR IS REQUIRED TO CONTACT DIG-SAFE 1-800-225-4971 AT LEAST 3 BUSINESS DAYS PRIOR TO ANY EXCAVATION TO VERIFY ALL UNDERGROUND AND OVERHEAD UTILITY LOCATIONS.
ADDITIONAL CONTACTS INCLUDE (BUT ARE NOT LIMITED TO):
CITY OF AUGUSTA - ENGINEERING DEPT. & AUGUSTA CONSTRUCTION INSPECTOR, TEL. 626-2365 ATTN: JERRY DOSTIE
WATER & SEWER: AUGUSTA WATER & SEWERAGE DIST., 12 WILLIAMS ST. TEL. 622-6184 ATTN. ANDY BEGIN
TELEPHONE: VERIZON CABLE T.V.: TIME WARNER CABLE ELECTRIC: CENTRAL MAINE POWER CO.

6) THE PROJECT DRAWINGS ARE GENERALLY SCHEMATIC AND INDICATE THE POSSIBLE LOCATION OF EXISTING UNDERGROUND UTILITIES. INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY MAPS, MUNICIPAL RECORD MAPS, AND FIELD SURVEY. IT IS NOT GUARANTEED TO BE CORRECT OR COMPLETE. UTILITIES ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES, INCLUDING SERVICES, WHEN THE SERVICES ARE TO BE LEFT IN PLACE. THE CONTRACTOR IS TO PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING THE EXCAVATING AND BACKFILLING OPERATIONS. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED UTILITIES BE FOUND, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH THE WORK IN THIS AREA.

7) DO NOT INTERRUPT EXISTING UTILITIES SERVICING THE PREMISES USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND CITY. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.

8) OSHA REGULATIONS MAKE IT UNLAWFUL TO OPERATE CRANES, BOOMS, HOISTS, ETC., WITHIN TEN FEET (10') OF ANY ELECTRIC LINE UNDER 50KV. IF THE CONTRACTOR MUST OPERATE CLOSER THAN 10', THE CONTRACTOR MUST CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS BEFORE ENCROACHING ON THIS REQUIREMENT.

9) IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLANS, APPROVALS, AND DETAILS FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL VERIFY ALL THE SITE CONDITIONS IN THE FIELD AND CONTACT THE DESIGN ENGINEER IF THERE ARE ANY DISCREPANCIES REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT AN APPROPRIATE REVISION CAN BE MADE PRIOR TO BIDDING.

10) THE CONTRACTOR SHALL REFERENCE SITE PLANS OF RECORD FOR MORE INFORMATION ON EXISTING CONDITIONS.

11) ALTERNATE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED IN WRITING BY THE OWNER, DESIGN ENGINEER, AND APPROPRIATE GOVERNMENTAL AGENCY PRIOR TO INSTALLATION.

12) THE CONTRACTOR SHALL RESTORE ALL UTILITY STRUCTURES, PIPE, UTILITIES, PAVEMENT, CURBS, SIDEWALKS, AND LANDSCAPED AREAS DISTURBED BY CONSTRUCTION TO AS GOOD AS BEFORE BEING DISTURBED AS DETERMINED BY BMV OFFICIALS. ANY DAMAGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

13) TRAFFIC CONTROL MEASURES SHALL BE UTILIZED IN ACCORDANCE WITH THE LATEST REVISION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE CONTRACTOR SHALL PROVIDE, MAINTAIN AND PROTECT TRAFFIC CONTROL DEVICES TO THE EXTENT REQUIRED BY LAW FOR THE PROTECTION OF THE PUBLIC CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS, FENCES, AND UNIFORMED TRAFFIC CONTROL PERSONNEL AS REQUIRED OR ORDERED BY THE DESIGN ENGINEER OR CODE ENFORCEMENT PERSONNEL. THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC LANES AND PEDESTRIAN WALKWAYS AT ALL TIMES UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE CITY OF AUGUSTA. PAVEMENT MARKINGS SHALL BE FAST DRYING TYPE IN ACCORDANCE WITH MDOT SPECIFICATIONS. TWELVE INCH (12") WIDE STOP BAR AND FOUR INCH (4") WIDE STRIPES SHALL BE LOCATED AS SHOWN ON THE PLANS.

14) THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ALL PRODUCT, MATERIALS AND PLANT SPECIFICATIONS TO THE OWNER AND DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW.

15) THE CONTRACTOR SHALL RETAIN AN INDEPENDENT TESTING LABORATORY FOR SOIL AND PAVEMENT TESTS AT CONTRACTOR COSTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS ASSOCIATED WITH ANY RECONSTRUCTION AND RE-TESTING OF UNSATISFACTORY SOILS OR PAVEMENT.

16) ALL EXCAVATION SHALL BE BACKFILLED TO EXISTING GRADE BEFORE THE END OF THE DAY OR ADEQUATELY PROTECTED FROM DANGER TO HUMANS AND ANIMALS.

17) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE OWNER WILL PROVIDE A BASE LINE OR COORDINATES AND BENCHMARK AT THE CONSTRUCTION SITE FROM WHICH TO BEGIN LAYOUT.

18) THE CONTRACTOR SHALL FURNISH ELECTRICAL POWER, WATER, AND SANITARY FACILITIES FOR HIS EXCLUSIVE USE AT THE CONSTRUCTION SITE SHOULD THE CONTRACTOR DEEM THIS ESSENTIAL FOR THE PROPER PERFORMANCE OF THE CONTRACT.

19) WORK MAY PROGRESS MONDAY THROUGH SATURDAY 7:00 AM TO 7:00 PM. WORK AT OTHER TIMES MAY PROCEED UPON WRITTEN APPROVAL BY THE OWNER AND CITY.

20) THE CONTRACTOR SHALL GUARANTEE THE FAITHFUL REMEDY OF ANY DEFECTS DUE TO FAULTY MATERIALS OR WORKMANSHIP AND GUARANTEES PAYMENT FOR ANY RESULTING DAMAGE WHICH SHALL APPEAR WITHIN A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT.

21) THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER AT THE END OF CONSTRUCTION.

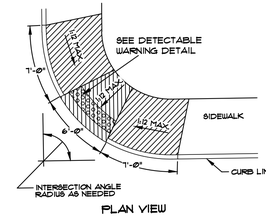
22) A PRE-CONSTRUCTION CONFERENCE WITH THE OWNER, DESIGNERS, AND CONTRACTOR SHALL BE REQUIRED BEFORE ANY CONSTRUCTION OCCURS ON THE PROJECT. DURING CONSTRUCTION, THERE SHALL BE WEEKLY PROGRESS MEETINGS WITH THE OWNER (ON-SITE OR TELECONFERENCE) UNTIL PROJECT COMPLETION.

23) PROPER IMPLEMENTATION AND MAINTENANCE OF EROSION CONTROL MEASURES ARE OF PARAMOUNT IMPORTANCE FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTIONS OF THE OWNER, THEIR REPRESENTATIVES, OR STATE/LOCAL/FEDERAL INSPECTORS AT NO ADDITIONAL COST TO THE OWNER.

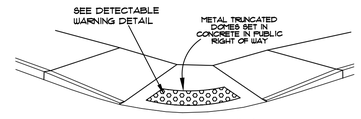
24) THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL RULES, REGULATIONS AND LAWS.

25) THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION OF ALL SITE IMPROVEMENTS WITHIN THE WORK AREA INCLUDING TRANSPORTATION AND TIPPING FEES AT A CITY-APPROVED LANDFILL OR DISPOSAL SITE.

1- WHEELCHAIR RAMP
A) WHEELCHAIR RAMPS SHALL BE REQUIRED IN ALL NEW RADIUS CORNERS.
B) NO VEHICULAR ACCESS SHALL BE PERMITTED THROUGH THE RADIUS CURB.
2- ALL CURB JOINTS
A) ALL CURB JOINTS TO BE MORTARED FULL DEPTH OF CURB AND FROM GUTTER LINE TO BOTTOM OF CURB ON FRONT OF CURB.
3- LAWN AREA
A) IF ANY LAWN AREAS ARE CUT OR FILLED, THEY ARE TO BE LOAMED AND SEEDED.
4- LOCATING AND MAINTAINING PROPERTY.
A) LOCATING AND MAINTAINING PROPERTY MARKERS THROUGHOUT CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.



PLAN VIEW



PERSPECTIVE VIEW

ADA RAMP DETAIL

NOT TO SCALE

STATE OF MAINE
STEPHEN J. ROBERGE
#4837
LICENSED PROFESSIONAL ENGINEER
BID SET 04/29/2021

REV:	BY:	DATE:	CHANGES:
2	SJR	APRIL 11, 2021	REMOVE LIGHT POLE & UTILITY TRENCH DETAIL
1	SJR	JAN. 11, 2019	ADD EMERGENCY PULL STATION DETAIL

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SJR ENGINEERING, INC.

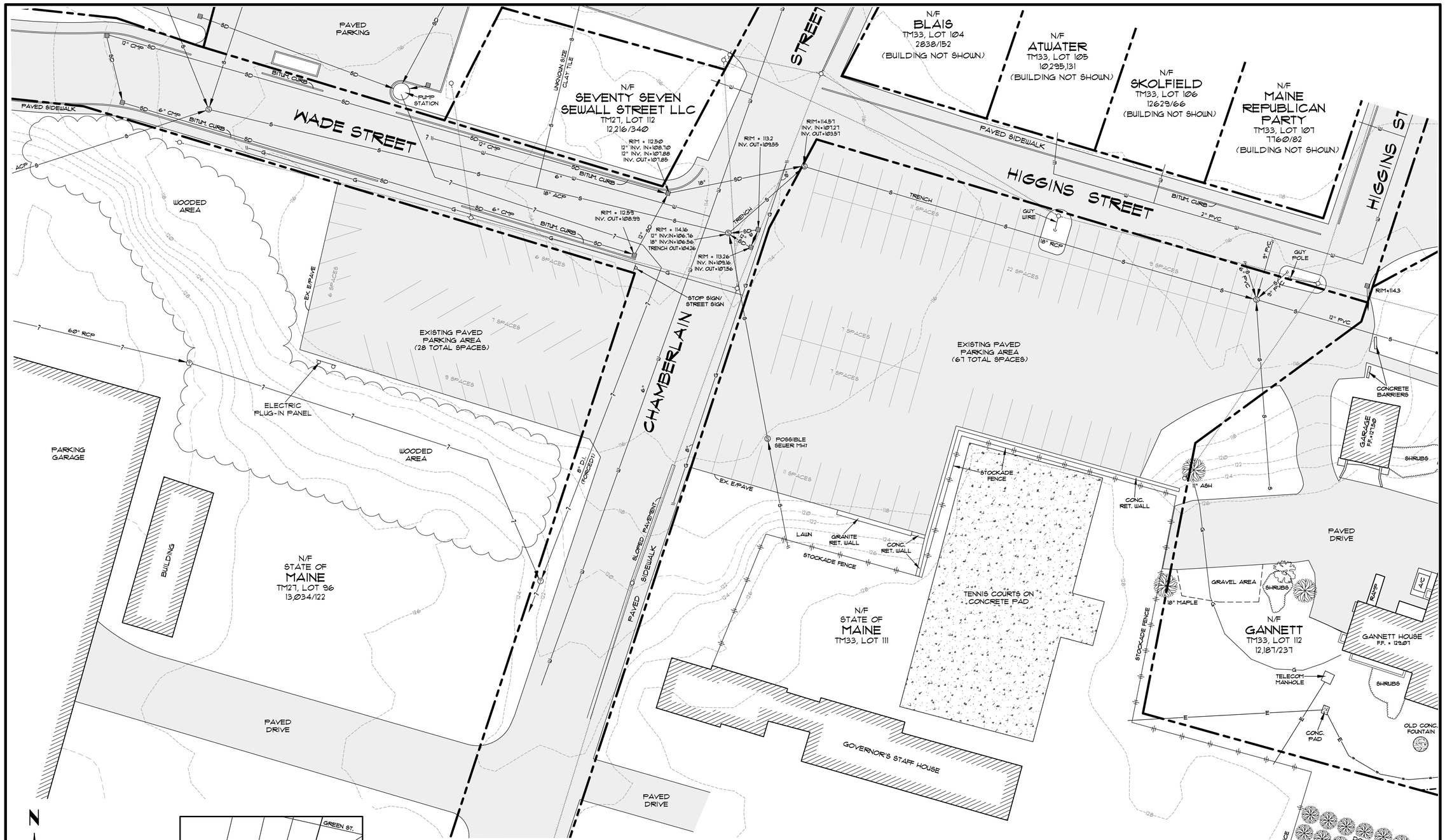
SJR ENGINEERING, INC.
16 THURSTON DRIVE
MONMOUTH, MAINE 04259
(207) 242-6248 (c)
steve@sjreng.com
SJR ENGINEERING

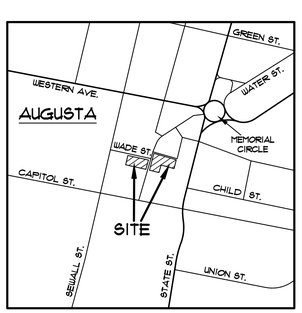
CONSTRUCTION DETAILS & NOTES

CHAMBERLAIN STREET
PARKING LOT IMPROVEMENTS
PREPARED FOR
STATE OF MAINE
BUREAU OF REAL ESTATE MANAGEMENT

DATE	PROJECT
DEC. 2019	2019-39
DRAWN BY	SCALE
SJR	AS NOTED

SHEET 4





LOCATION MAP

LEGEND

N/F	NOW OR FORMERLY
12,187/237	BOOK AND PAGE NUMBER
	APPROXIMATE BOUNDARY LINE
223	EXISTING CONTOUR
	CATCH BASIN
SD	STORM DRAIN LINE (APPROX.)
S	SEWER LINE (APPROX.)
G	GAS LINE (APPROX.)
W	WATER LINE (APPROX.)
S	SEWER MANHOLE
	UTILITY POLE WITH OVERHEAD WIRES
	EXISTING BUILDING
	EXISTING PAVEMENT

NOTES

1) THIS IS NOT A BOUNDARY SURVEY. NO WARRANTY IS MADE TO THE INFORMATION SHOWN ON THIS PLAN. THIS SCHEMATIC WAS PREPARED TO SHOW PROPOSED IMPROVEMENTS TO THE PARKING AREAS.

2) EXISTING CONDITIONS IS BASED ON AERIAL ORTHOPHOTOS AND 2' LIDAR CONTOURS DOWNLOADED FROM THE MAINE G.I.S. WEBSITE. BOUNDARY LINES ARE APPROXIMATE AND ARE BASED ON EXISTING RECORDED PLANS, TAX MAPS AND DEED INFORMATION.

3) THE LOCATION, DEPTH, SIZE AND EXISTENCE OF ALL UNDERGROUND UTILITY LINES, TANKS AND/OR STRUCTURES WAS NOT DETERMINED. CONTRACTOR SHALL CONTACT DIGSAFE/ON-TARGET PRIOR TO EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF ALL PUBLIC AND PRIVATE UNDERGROUND UTILITIES PRIOR TO EXCAVATION.

SCALE : 1" = 20'

0 10 20 40 60 80

STATE OF MAINE
STEPHEN J. ROBERGE
#4837
LICENSED PROFESSIONAL ENGINEER

BID SET 04/05/2021

REV:	BY:	DATE:	CHANGES:
1	SJR	FEB. 1, 2020	UTILITY INFORMATION UPDATED
1	SJR	JAN. 19, 2020	UPDATED PER GANNETT HOUSE PLAN SET

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SJR ENGINEERING, INC.
16 THURSTON DRIVE
MONMOUTH, MAINE 04259
(207) 242-6248 tel
steve@sjreng.com

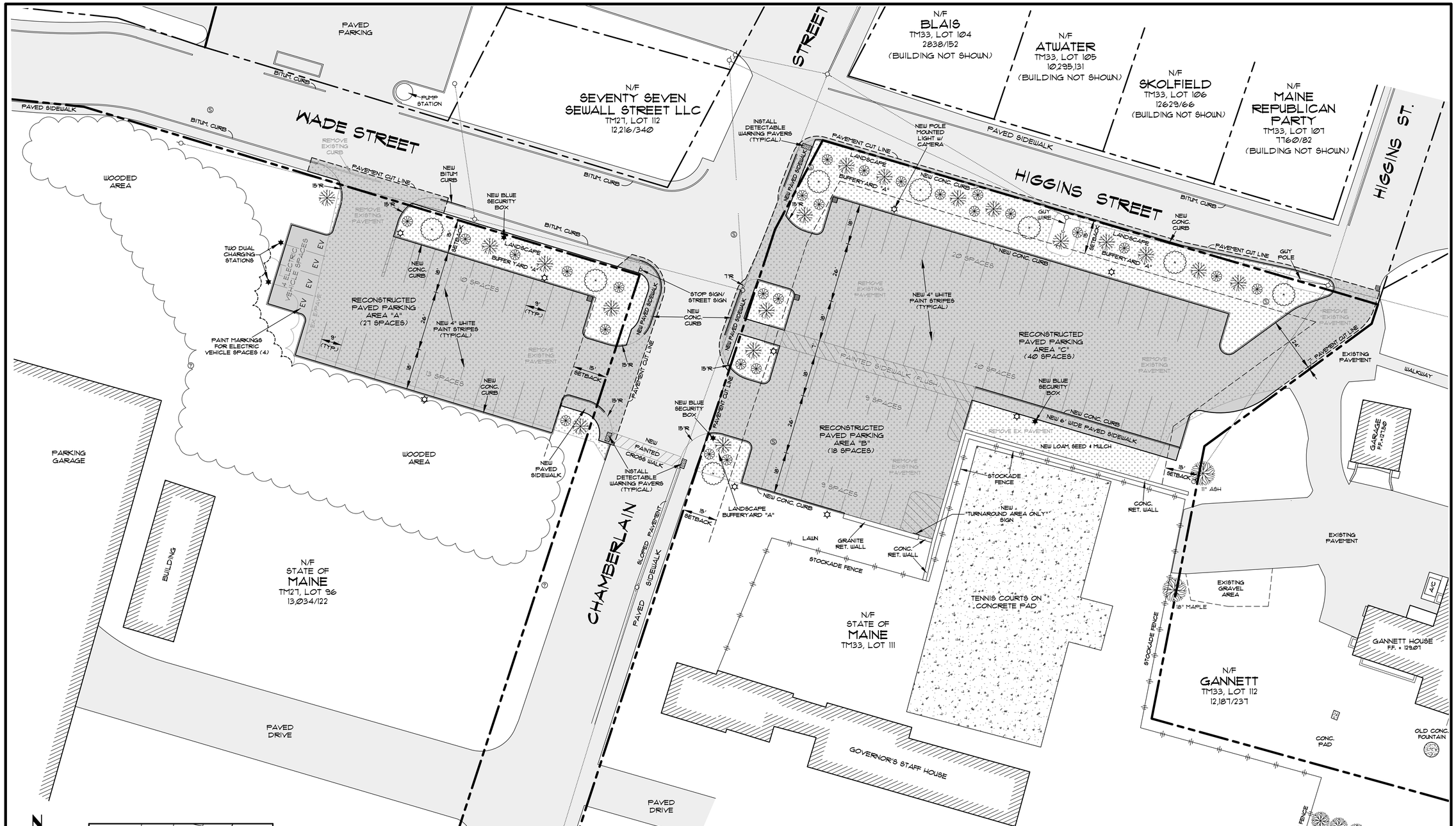
EXISTING CONDITIONS PLAN
CHAMBERLAIN STREET PARKING LOT IMPROVEMENTS

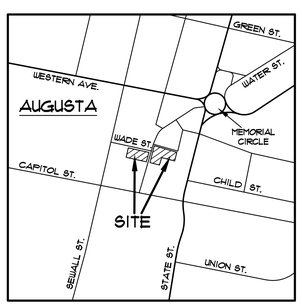
PREPARED FOR
STATE OF MAINE
BUREAU OF REAL ESTATE MANAGEMENT

DATE	PROJECT
DEC. 2019	2019-39
DRAWN BY	SCALE
SJR	1" = 20'

SHEET 1

19-33 EX





LOCATION MAP

NORTH

LANDSCAPE NOTE

BUFFER YARD "A" (15' WIDE) LANDSCAPING REQUIREMENTS - PLANTINGS PER 100 LINEAR FEET
A) 2 - CANOPY TREES (2" TO 2½" CALIPER)
B) 4 - UNDERSTORY TREES (1¾" TO 2" CALIPER)
C) 6 - DECIDUOUS SHRUBS (18" MATURE HEIGHT)
SEE SECTION 300-502 OF THE CITY OF AUGUSTA LAND USE CODE FOR MORE INFORMATION.

LANDSCAPE LEGEND

25 - DECIDUOUS SHRUB

8 - CANOPY AND/OR EVERGREEN TREE

17 - UNDERSTORY TREE

NOTES

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4) THE PARCELS ARE LOCATED IN THE BUSINESS / PROFESSIONAL ZONING DISTRICT ("BP").

LEGEND

APPROXIMATE BOUNDARY LINE
N/F — NOW OR FORMERLY
12,187/237 — BOOK AND PAGE NUMBER
EXISTING CATCH BASIN
EXISTING SEWER MANHOLE
NEW LIGHT POLE
PROPOSED CATCH BASIN
NEW TREE LINE
EXISTING TREE LINE
UTILITY POLE WITH OVERHEAD WIRES
EXISTING BUILDING
EXISTING PAVEMENT
PROPOSED PAVEMENT
REMOVE EXISTING PAVEMENT

SCALE : 1" = 20'
0 10 20 40 60 80

STATE OF MAINE
STEPHEN J. ROBERGE
#4837
LICENSED PROFESSIONAL ENGINEER
BID SET 04/29/2021

REV:	BY:	DATE:	CHANGES:
6	SJR	MAR. 6, 2021	REMOVE ABUTTER CONSTRUCTION
5	SJR	MAR. 2, 2021	CHANGES PER CITY REVIEW
4	SJR	FEB. 1, 2020	TEXT REVISIONS
3	SJR	JAN. 18, 2020	RELOCATE LIGHT POLES
2	SJR	JAN. 11, 2020	REMOVE ISLAND, RECONFIGURE
1	SJR	DEC. 28, 2019	ADD GANNETT HOUSE PROPOSED CONDITIONS

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16 THURSTON DRIVE
MONMOUTH, MAINE 04259
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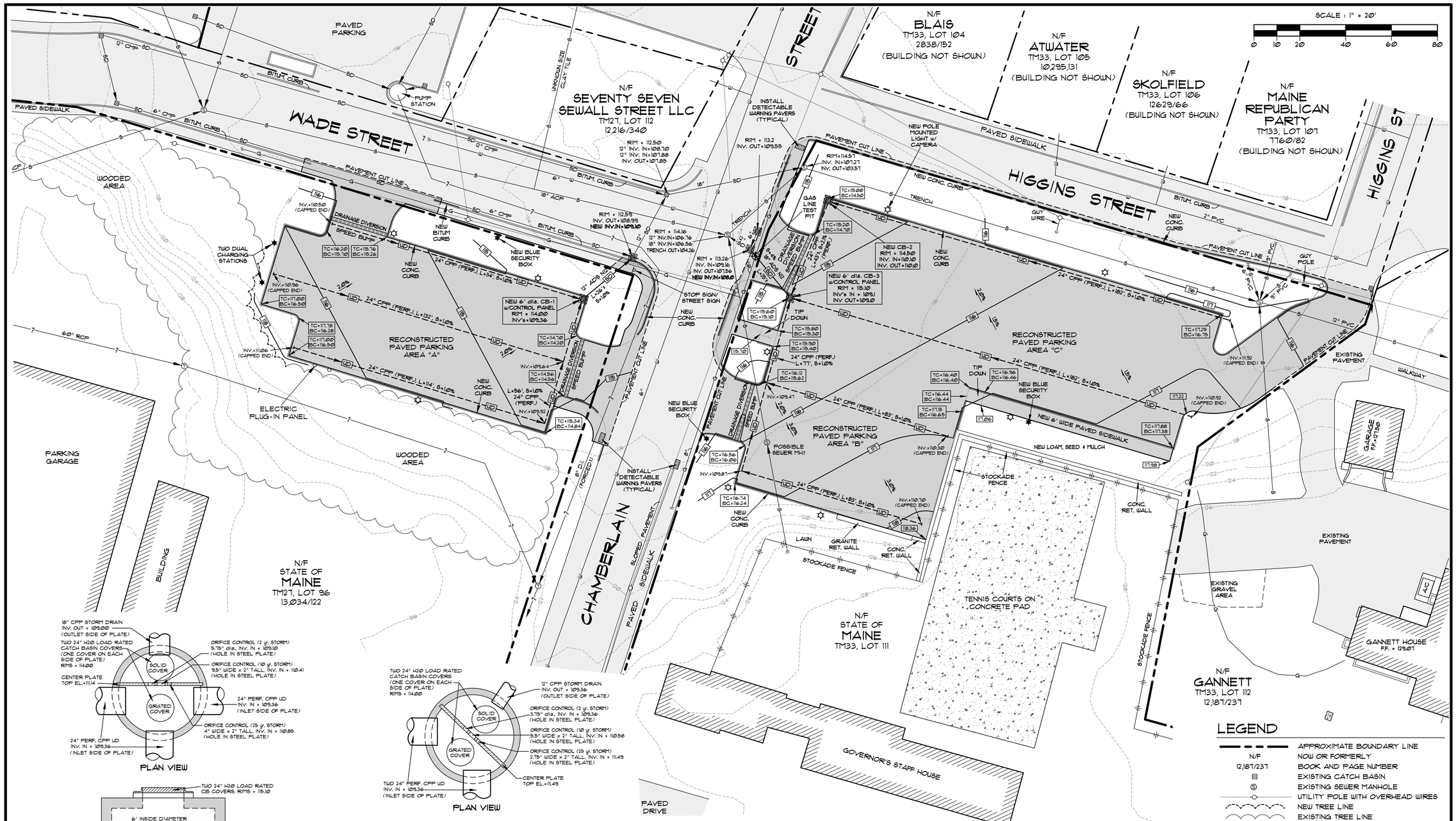
steve@sjreng.com

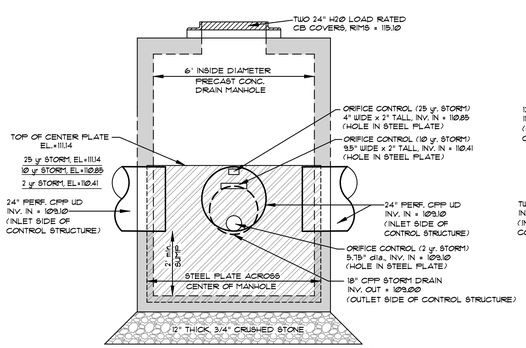
SITE & DEMOLITION PLAN
CHAMBERLAIN STREET PARKING LOT IMPROVEMENTS
PREPARED FOR
STATE OF MAINE
BUREAU OF REAL ESTATE MANAGEMENT

DATE	PROJECT
DEC. 2019	2019-39
DRAWN BY	SCALE
SJR	1" = 20'

SHEET 2

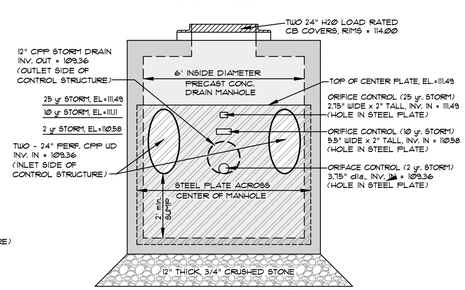


PLAN VIEW

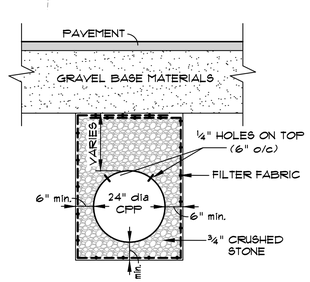


ELEVATION VIEW FROM INLET SIDE OF STRUCTURE
CATCH BASIN #3
(NOT TO SCALE)

PLAN VIEW



ELEVATION VIEW FROM INLET SIDE OF STRUCTURE
CATCH BASIN #1
(NOT TO SCALE)



UNDERDRAIN TRENCH DETAIL
NOT TO SCALE

NOTES

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LEGEND

	APPROXIMATE BOUNDARY LINE
N/F	NOW OR FORMERLY
12,187/237	BOOK AND PAGE NUMBER
	EXISTING CATCH BASIN
	EXISTING SEWER MANHOLE
	UTILITY POLE WITH OVERHEAD WIRES
	NEW TREE LINE
	EXISTING TREE LINE
	NEW LIGHT POLE
S	EXISTING SEWER LINE
W	EXISTING WATER LINE
SD	EXISTING STORM DRAIN LINE
G	EXISTING GAS LINE
?	UTILITY LINE (UNKNOWN TYPE)
	UTILITY POLE WITH OVERHEAD WIRES
116	EXISTING CONTOUR
116	PROPOSED CONTOUR
116	FUTURE CONTOUR (BY OTHERS)
	PROPOSED CATCH BASIN
SD	PROPOSED STORM DRAIN LINE
UD	PROPOSED UNDER DRAIN LINE
TC=111.55	TOP OF CURB SPOT GRADE
BC=111.05	BOTTOM OF CURB SPOT GRADE
	EXISTING BUILDING
	EXISTING PAVEMENT
	PROPOSED PAVEMENT
	INSTALL SILT SACK IN CATCH BASIN

STATE OF MAINE
STEPHEN J. ROBERTS
#4837
LICENSED PROFESSIONAL ENGINEER
BID SET 04/29/2021

REV:	BY:	DATE:	CHANGES:
7	SJR	MAR 19, 2021	ADD OUTLET CONTROL STRUCTURES
6	SJR	MAR 6, 2021	REMOVE ABUTTER CONSTRUCTION
5	SJR	MAR 2, 2021	CHANGES PER CITY REVIEW
4	SJR	FEB. 1, 2020	ADD RIM & INVERT ELEVATIONS
3	SJR	JAN. 18, 2020	RELOCATE LIGHT POLES
2	SJR	JAN. 11, 2020	REMOVE ISLAND, RECONFIGURE
1	SJR	DEC. 28, 2019	ADD GANNETT HOUSE PROPOSED CONDITIONS

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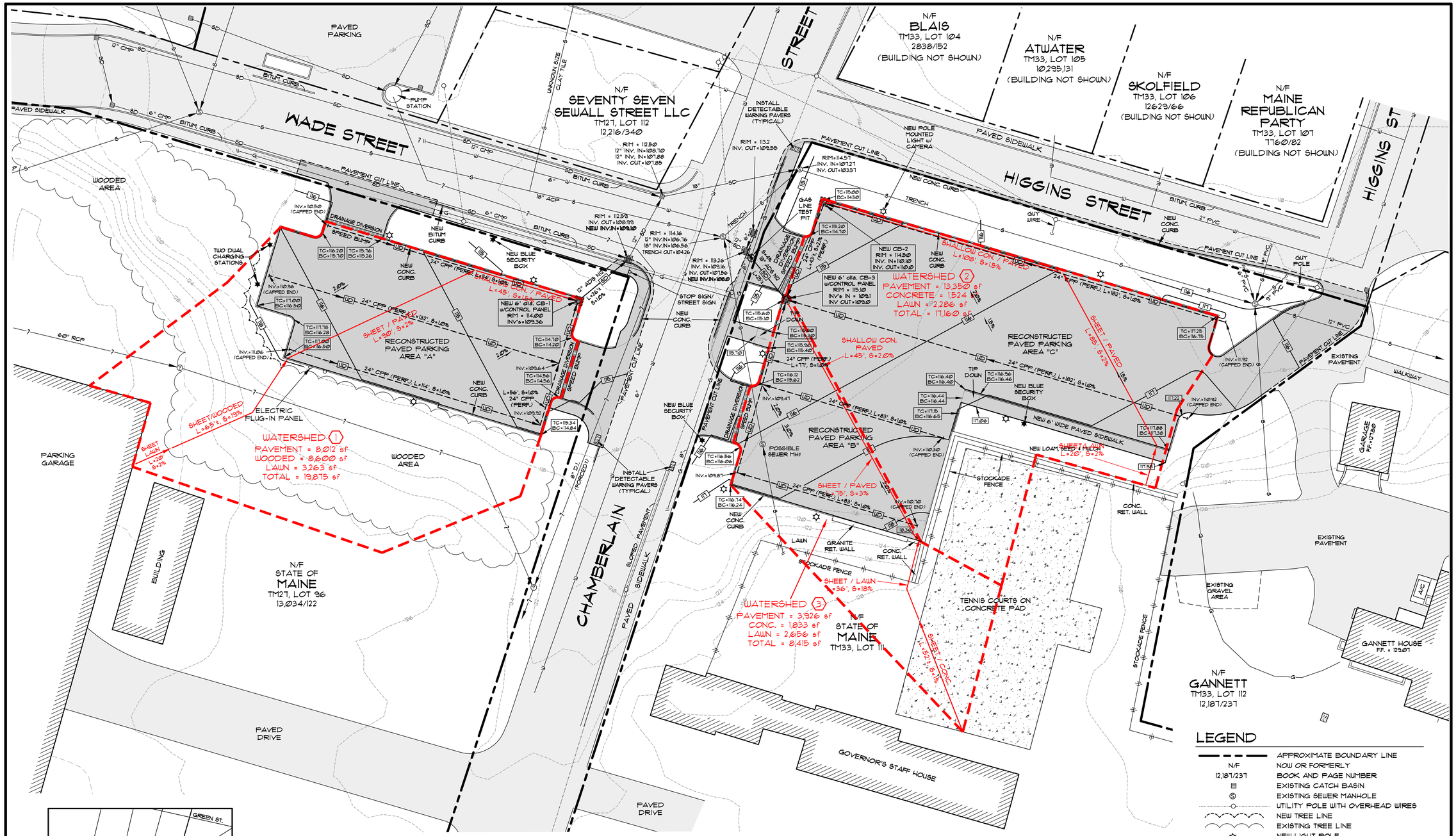
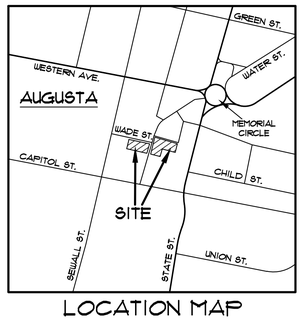
SJR ENGINEERING, INC.
16 THURSTON DRIVE
MONMOUTH, MAINE 04259
(207) 242-6248 tel
steve@sjreng.com

TOPOGRAPHIC & UTILITY PLAN
CHAMBERLAIN STREET PARKING LOT IMPROVEMENTS
PREPARED FOR
STATE OF MAINE
BUREAU OF REAL ESTATE MANAGEMENT

DATE	PROJECT
DEC. 2019	2019-39
DRAWN BY	SCALE
SJR	1" = 20'

SHEET 3





LOCATION MAP

NOTES

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5) SOILS AT THE SITE ARE LAMOINE SILT LOAM (3%-8% SLOPES) ACCORDING TO MEDIUM INTENSITY SOIL MAPPING OBTAINED AT THE USDA WEB SOIL SURVEY WEBSITE.

LEGEND

— — —	APPROXIMATE BOUNDARY LINE
N/F	NOW OR FORMERLY
12,187/237	BOOK AND PAGE NUMBER
	EXISTING CATCH BASIN
	EXISTING SEWER MANHOLE
	UTILITY POLE WITH OVERHEAD WIRES
	NEW TREE LINE
	EXISTING TREE LINE
	NEW LIGHT POLE
S	EXISTING SEWER LINE
W	EXISTING WATER LINE
SD	EXISTING STORM DRAIN LINE
G	EXISTING GAS LINE
?	UTILITY LINE (UNKNOWN TYPE)
	UTILITY POLE WITH OVERHEAD WIRES
116	EXISTING CONTOUR
116	PROPOSED CONTOUR
	PROPOSED CATCH BASIN
SD	PROPOSED STORM DRAIN LINE
TC=117.55	TOP OF CURB SPOT GRADE
BC=117.05	BOTTOM OF CURB SPOT GRADE
	EXISTING BUILDING
	EXISTING PAVEMENT
	PROPOSED PAVEMENT
	INSTALL SILT SACK IN CATCH BASIN

STATE OF MAINE
STEPHEN J. ROBERGE
#4837
LICENSED PROFESSIONAL ENGINEER
BID SET 04/29/2021

REV:	BY:	DATE:	CHANGES:
2	SJR	JAN. 11, 2020	REMOVE ISLAND, RECONFIGURE
1	SJR	DEC. 28, 2019	ADD GANNETT HOUSE PROPOSED CONDITIONS

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SJR ENGINEERING, INC.

SJR ENGINEERING, INC.
16 THURSTON DRIVE
MONMOUTH, MAINE 04259
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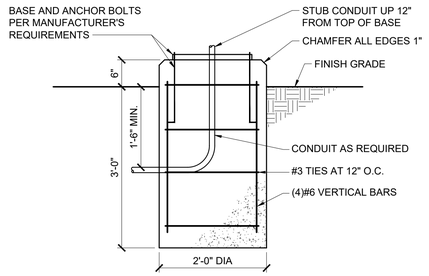
steve@sjreng.com

WATERSHED PLAN
CHAMBERLAIN STREET PARKING LOT IMPROVEMENTS

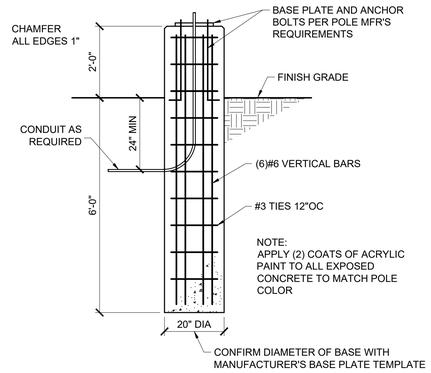
PREPARED FOR
STATE OF MAINE
BUREAU OF REAL ESTATE MANAGEMENT

DATE	PROJECT
DEC. 2019	2019-39
DRAWN BY:	SCALE
SJR	1" = 20'

SHEET 5



F1	EMERGENCY 'BLUE LIGHT' STATION BASE DETAIL
NOT TO SCALE	



F3	POLE BASE DETAIL
NOT TO SCALE	

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MFR	CATALOG SERIES NUMBER - SEE KEY NOTE 1	MOUNTING	VOLTS	LAMP/LIGHT ENGINE			KEY NOTES
						WATTS	DELIVERED LUMENS	TYPE	
A3HS	LED SITE LIGHT TYPE 3 WITH HOUSE SIDE SHIELD AND 18' STRAIGHT SQUARE STEEL POLE	LITHONIA	FIXTURE: DSX0-LED-P3-50K-T3M-MVOLT-HS-SPUMBA-DDBXD POLE: SSS-18-4C-DM19AS-DDBXD	18' TALL POLE; 20' AFG	MVOLT	71	6,733	LED ARRAY 5000K	
A4HS	LED SITE LIGHT TYPE 4 WITH HOUSE SIDE SHIELD AND 18' STRAIGHT SQUARE STEEL POLE	LITHONIA	FIXTURE: DSX0-LED-P3-50K-T4FT-MVOLT-HS-SPUMBA-DDBXD POLE: SSS-18-4C-DM19AS-DDBXD	18' TALL POLE; 20' AFG	MVOLT	71	6,678	LED ARRAY 5000K	

	NOTES
1	**NOTE THAT THESE NUMBERS ARE NOT COMPLETE CATALOG NUMBERS. PROVIDE ALL REQUIREMENTS ON SCHEDULE, NOTES, SPECS, AND DRAWINGS COMBINED.**
2	VERIFY CEILING STRUCTURE AND MOUNTING HEIGHT PRIOR TO ORDERING ANY LIGHT FIXTURES.
3	PROVIDE INTEGRAL PHOTOCELL FOR CONTROL.

PANEL SCHEDULE ~ P1

VOLTAGE: 208/120V | MCB: 225A | AIC: 10kAIC

3-PHASE, 4-WIRE

CIRCUIT BREAKER				CIRCUIT LOAD (KVA) CONNECTED			BRANCH CIRCUIT DESCRIPTION
CKT NO	BRKR SIZE	NO OF POLES	PH	A	B	C	
1	20	1	A	3.60			EV CHARGING STATION
3	20	1	B		3.60		
5	20	1	C			3.60	EV CHARGING STATION
7	20	1	A	3.60			
9	20	1	B		0.18		LARGE LOT SITE LIGHTS VIA CONTACTOR
11	20	1	C			0.18	POLE #1
13	20	1	A	0.20			LARGE LOT EM. BLUE LIGHT BOXES
15	20	1	B		0.10		LIGHTING CONTACTOR COIL
17	20	1	C			0.18	PANEL RECEPTACLE
19	15	1	A	0.00			SPARE
21	15	1	B		0.00		SPARE
23	15	1	C			0.00	SPARE
			SUBTOTAL	7.40	3.88	3.96	
2	40	2	A	3.60			EV CHARGING STATION
4			B		3.60		
6	40	2	C			3.60	EV CHARGING STATION
8			A	3.60			
10	40	2	B		0.11		SMALL LOT SITE LIGHTS VIA CONTACTOR
12			C			0.11	POLE #2
14	40	2	A	0.10			SMALL LOT EM. BLUE LIGHT BOXES
16			B		0.50		LV EQUIPMENT RECEPTACLE
18	40	2	C			0.50	LV EQUIPMENT RECEPTACLE
20			A	0.00			SPARE
22	20	1	B		0.00		SPARE
24	20	1	C			0.00	SPARE
			SUBTOTAL	7.30	4.21	4.21	

OH	OVERHEAD ELECTRIC & TELECOMMUNICATIONS WIRING, TYPE AS INDICATED
	UNDERGROUND OR UNDERSLAB WIRING, TYPE AS INDICATED
	UTILITY POLE
	FUSED DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH
	MOTOR
J	JUNCTION BOX, WALL MOUNTED
J	JUNCTION BOX, IN-GROUND
M	ELECTRICAL MANHOLE, COORDINATE LOCATION WITH OTHER UNDERGROUND UTILITIES
T	PADMOUNT TRANSFORMER - SIZE AS REQUIRED BY LOCAL UTILITY
PB	4'X6' PULL BOX WITH 32" COVER PLATE IN ACCORDANCE WITH UTILITY STANDARDS
P	PEDESTAL LOCATION, PEDESTAL BY SERVICE PROVIDER, STUB UP (2) 2" CONDUITS WITH CONNECTORS AND BUSHINGS FROM HANDHOLE
CT	CT CABINET
H	HANDHOLE, MINIMUM 18"x36"x24", SIZE PER NEC FOR NUMBER OF CONDUITS INSTALLED
M	UTILITY METER, PROVIDE UNISTRUT RACK TO SUPPORT METER
C	SECURITY CAMERA
BL	EMERGENCY BLUE LIGHT CALL BOX STATION
EVSE	ELECTRIC VEHICLE DUAL CHARGING STATION POST
SPD	TVSS (SURGE PROTECTION DEVICE)
	SINGLE POLE MOUNTED LIGHT
	DOUBLE POLE MOUNTED LIGHT
	WALL MOUNTED LIGHT FIXTURE
	BOLLARD LIGHT FIXTURE
A1 / ES-000	DETAIL CALL-OUT
A1 / ES-000	SECTION/ELEVATION CALL-OUT

AFF	ABOVE FINISHED FLOOR	(E)	EXISTING ITEM TO REMAIN
AFG	ABOVE FINISHED GRADE	(R)	REMOVE ITEM AND DISPOSE OF PROPERLY
BAS	BUILDING AUTOMATION SYSTEM	(ER)	RELOCATED ITEM AT NEW LOCATION
CATV	CABLE TV	(RL)	REMOVE AND RELOCATE
CB	CIRCUIT BREAKER		
P/O	PART OF		
MT	MOUNT		
NEC	NATIONAL ELECTRICAL CODE		
TEL	TELEPHONE		
UNO	UNLESS NOTED OTHERWISE		
WP	WEATHERPROOF		
WG	WIREGUARD		

1. Seal top of conduit with polyurethane sealer. Top of conduit must extend 4' above the neutral. If all steel, top of conduit must have an insulated grounding bushing.

2. If top section of riser is less than 5 feet in length, it must be supported with at least one steel U clip with 5/16th inch holes. If top section of riser is PVC and greater than 5 feet in length, it must be supported with no less than two steel U clips with 5/16th inch holes.

3. Coupling of same material as upper conduit is not required if using conduit with belled end installed down over lower conduit.

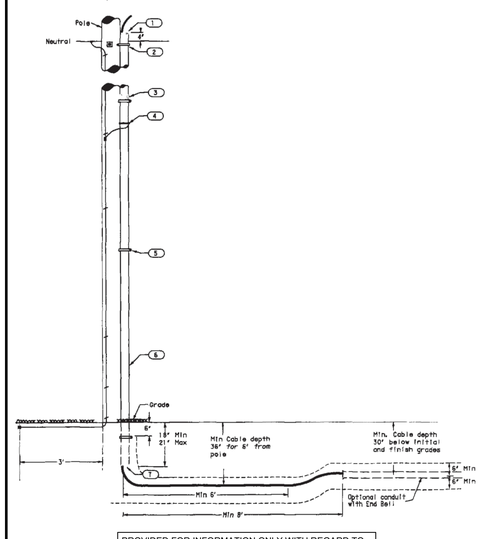
4. If steel conduit, a conduit ground connector made of either copper alloy or galvanized steel material of suitable design shall be used. Install pole ground if one doesn't exist.

5. Two hole steel U clips with 5/16' holes are required at top and middle of each section of PVC conduit that is over 60 inches in length. If the riser is all steel, two hole U clips with 5/16th inch holes are required at the bottom and top of first section and at the top of each section, there after. The steel U clips shall be secured to the pole with 5/16th X 3 inch lag screws.
Bottom Section: (2) clips if steel conduit,
(3) clips if schedule 80 pvc conduit
Middle Section: (1) clip if steel conduit,
(2) clips if pvc conduit
Top Section: (1) clip if steel conduit,
(1) clip if pvc conduit less than 5ft.,
(2) clips if pvc conduit greater than 5ft.

6. Rigid steel, steel IMC, Schedule 80 PVC, or Schedule 40 PVC rated for outdoor use may be used on riser. However first section of riser shall be rigid steel or schedule 80 PVC. All three phase primary risers shall be rigid steel for the first section.

7. Use threaded/non-threaded coupling or insulated bushing at the bottom of riser.

8. Standoff brackets will be required where future customers are likely to be served from the same pole.



PROVIDED FOR INFORMATION ONLY WITH REGARD TO COMMUNICATION RISER INSTALLATION REQUIREMENTS

A1	UTILITY POLE RISER DETAIL
NOT TO SCALE	CMP ILLUSTRATION NO. 29

A3	UTILITY POLE RISER DETAIL
NOT TO SCALE	CMP ILLUSTRATION NO. 29

NOTES

1. Standoff brackets are required when more than one conduit per utility is to be installed on a pole.

2. All three phase primary risers, whether stand off brackets are used or not, shall be rigid steel for the first section.

3. On single phase primary, secondary and service URD risers using stand off brackets, rigid steel or schedule 80 may be used.

4. Where rigid steel or schedule 80 PVC is used for the riser, one bracket shall be used to support each section of conduit up to 10 feet in length. Each bracket is to be placed just below the riser conduit coupling.

5. Conduit sections for single phase or three phase risers using stand off brackets shall be rigid steel or schedule 80 PVC conduit only (See note #2), with the exception that schedule 40 PVC sunlight resistant conduit may be used for the top section of the riser (not longer than 10'). If top section is longer than 24' it must be supported with a minimum of one stand off bracket. If top section is schedule 40 PVC and longer than 72' it must be supported by no fewer than two stand off brackets.

6. Where PVC is used for the riser, each stand off bracket supporting the PVC shall be grounded. Where steel is used for the riser one stand off bracket supporting the steel is required to be grounded.

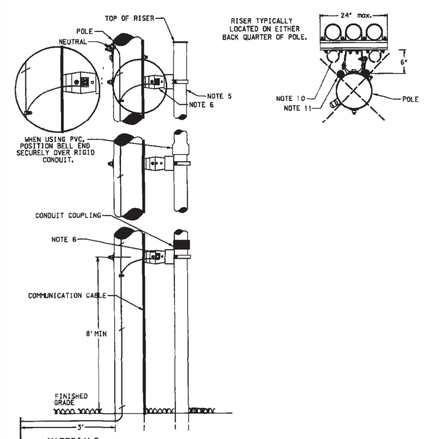
7. Sweeps, when used, are required to be steel.

8. If riser is all steel conduit, install insulated grounding bushing at top of riser.

9. Lowest bracket shall be a minimum of 8 feet above finished grade.

10. Alternate location for communication cable if run in metal conduit or schedule 80.

11. Communication cable may be attached directly to pole adjacent to brackets.

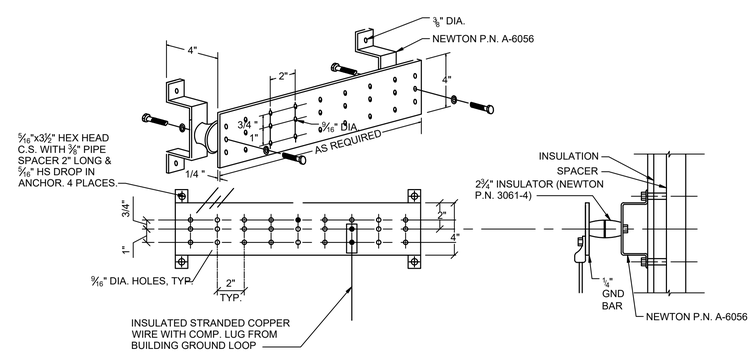


MATERIALS:

Stand Off Brackets	Aluma-Form 6CS0-12 6CS0-24	Hubble C6-CS0-12 C6-CS0-24	Ceran (Porcelain Products) 8610
Channel	Channel Included	Channel Included	Super strut A-1200-HS B-Line B-22
Conduit Strap Kit	Aluma-Form	Hubble	Super Strut
	2 STK-2	CSTK-2	702-2-STR
	2.5 STK-2.5	CSTK-2.5	702-2 1/2
	3 STK-3	CSTK-3	702-3
	3.5 STK-3.5	CSTK-3.5	702-3 1/2
	4 STK-4	CSTK-4	702-4
	5 STK-5	CSTK-5	702-5
	6 STK-6	CSTK-6	702-6

PROVIDED FOR INFORMATION ONLY WITH REGARD TO COMMUNICATION RISER INSTALLATION REQUIREMENTS

A5	UTILITY POLE STANDOFF DETAIL
NOT TO SCALE	CMP ILLUSTRATION NO. 28

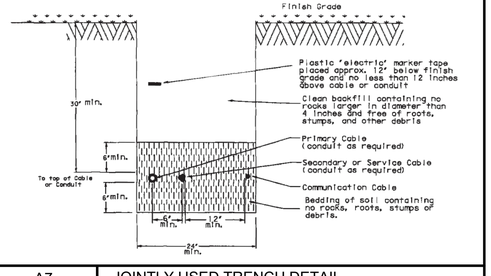


C7	GROUND BAR DETAIL
DO NOT SCALE	

JOINTLY USED TRENCH - HORIZONTAL SEPARATION

IN SITUATIONS WHERE THE TRENCH IS TO BE SHARED AGREEMENT MUST BE OBTAINED BETWEEN JOINT USERS

Trench shall be a minimum of 24' wide



A7	JOINTLY USED TRENCH DETAIL
DO NOT SCALE	CMP ILLUSTRATION NO. 19

REVISIONS

NUMBER	DATE	BY	DESCRIPTION

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Allied Engineering
Structural Mechanical Electrical Commissioning

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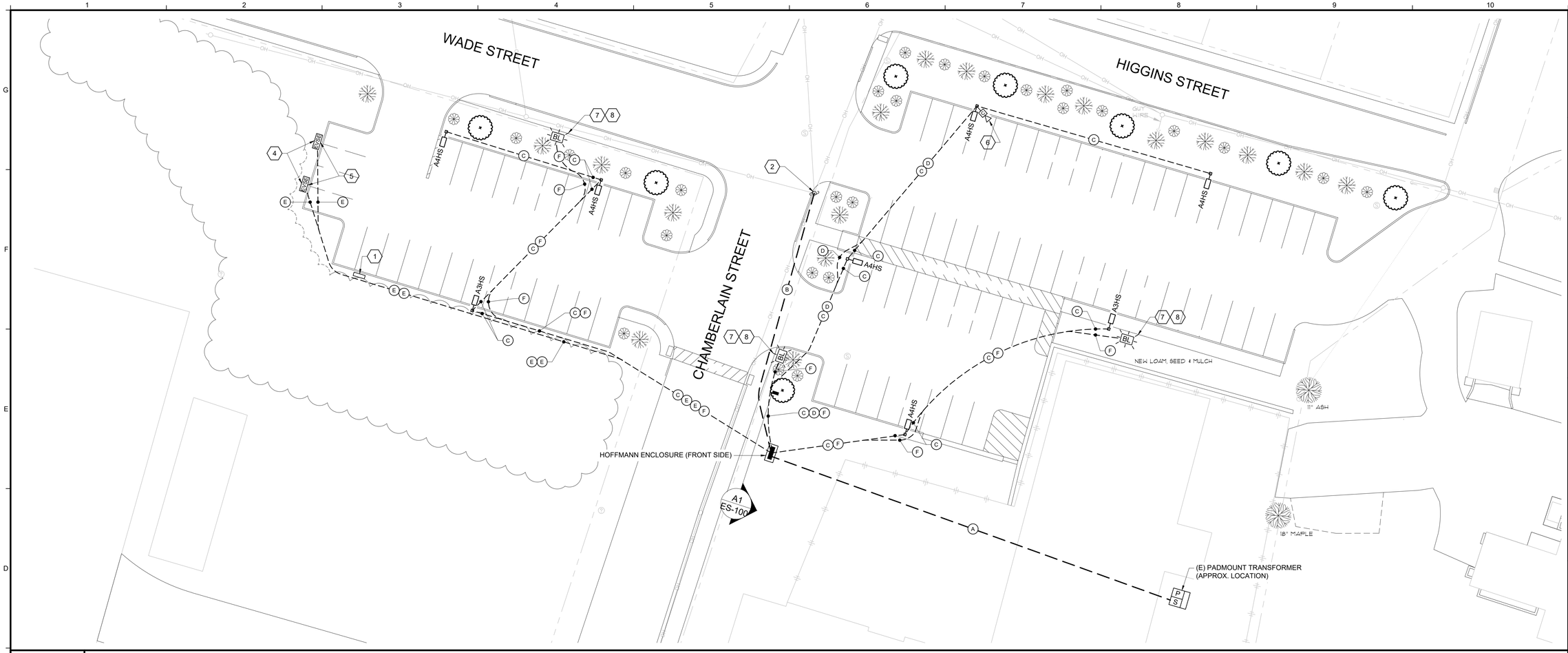
CHAMBERLAIN STREET
PARKING LOT IMPROVEMENTS
PREPARED FOR
STATE OF MAINE
BUREAU OF REAL ESTATE MANAGEMENT

DATE	PROJECT
2021-04-09	2019-39
DRAWN BY	SCALE
GMC	AS NOTED

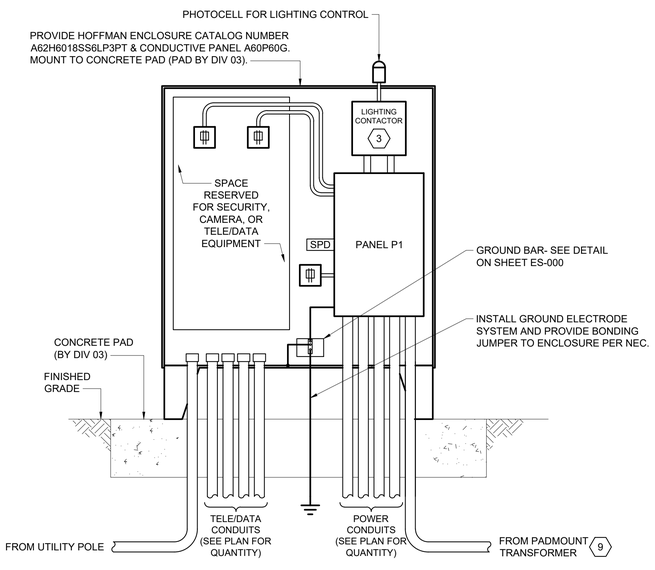
ISSUED FOR CONSTRUCTION - 04-09-2021

N:\Projects\2021\21031 - Chamberlain St Parking Lot\4a DRAWINGS\21031-ES.dwg Apr 09, 2021 - 10:40am



D1 ELECTRICAL SITE PLAN

SCALE: 1"=20'



A1 SERVICE BOX DIAGRAM/ELEVATION

NOT TO SCALE

PROJECT NORTH

0 20' 40'
Scale: 1" = 20'-0"

A7 CONDUIT KEY

- (A) SERVICE ENTRANCE (PAD TO PANEL)
  - (1) 3"C WITH (4)#4/0 + (1)#4G
- (B) TELECOMMUNICATIONS
  - (2) 2"C
- (C) SITE LIGHTING
  - (1) 1"C WITH (2) #10, (1) #10G U.N.O.
- (D) SECURITY CAMERA
  - (2) 1"C EMPTY WITH PULLSTRING
- (E) CHARGING STATIONS POWER & DATA
  - (1) 1"C WITH (4)#6 + (1)#10G FOR POWER
  - (2) 1"C EMPTY EACH WITH PULLSTRING FOR DATA (IN CASE CELLULAR CONNECTION METHOD IS NOT UTILIZED AND HARD-WIRED CONNECTION IS REQUIRED)
- (F) EMERGENCY "BLUE LIGHT" STATIONS
  - (1) 1¼"C WITH (2)#12 + (1)#12G FOR POWER
  - (1) 1¼"C EMPTY WITH PULLSTRING FOR DATA

A9 KEYNOTES

1. EXISTING WEATHERPROOF (WP) SINGLE PHASE 208V, 40A PANEL WITH WEATHERPROOF RECEPTACLES FOR BLOCK HEATERS LOCATED IN APPROXIMATELY THIS AREA, TO BE DISCONNECTED AND REMOVED BY THE OWNER PRIOR TO PARKING LOT RECONSTRUCTION.
2. EXISTING UNUSED CUSTOMER-OWNED 75KVA PADMOUNTED TRANSFORMER SHALL BE UTILIZED FOR NEW PARKING LOT POWER PANEL SERVICE. COORDINATE EXACT LOCATION IN FIELD.
3. PROVIDE (8) CHANNEL LIGHTING CONTACTOR PANEL WITH HAND/OFF/AUTO SELECTOR SWITCH ON ENCLOSURE COVER (FOR BYPASS OF PHOTOCELL).
4. LEVEL 2 NETWORKED ELECTRIC VEHICLE CHARGING STATIONS; CHARGEPOINT MODEL NO. CT4000 (2 CHARGING PORTS PER POST). COORDINATE WITH OWNER FOR DIVISION OF SCOPE WITH REGARD TO THE OWNER'S MASTER AGREEMENT CONTRACT WITH CHARGEPOINT. CONTRACTOR SHALL MAKE THE REQUIRED CONDUIT AND POWER PROVISIONS TO FACILITATE THE EQUIPMENT PROVISION AND INSTALLATION BY THE OWNER'S VENDOR.
5. CONDUIT STUB-UP AT UNIT SHALL BE 24" MAX AFG.
6. POLE MOUNTED CAMERA EQUIPMENT, INSTALLATION, AND WIRING SHALL BE PROVIDED BY OWNER'S SECURITY SYSTEM VENDOR. COORDINATE WITH OWNER FOR DIVISION OF SCOPE. CONTRACTOR SHALL MAKE THE REQUIRED CONDUIT AND POWER PROVISIONS TO FACILITATE THE EQUIPMENT PROVISION AND INSTALLATION BY THE OWNER'S VENDOR.
7. ECS (BLUE LIGHT) EQUIPMENT, INSTALLATION, AND WIRING SHALL BE PROVIDED BY OWNER'S SECURITY SYSTEM VENDOR. COORDINATE WITH OWNER FOR DIVISION OF SCOPE. CONTRACTOR SHALL MAKE THE REQUIRED CONDUIT AND POWER PROVISIONS TO FACILITATE THE EQUIPMENT PROVISION AND INSTALLATION BY THE OWNER'S VENDOR.
8. CONDUIT STUB-UP AT UNIT SHALL BE 12" MAX ABOVE CONCRETE BASE.
9. NEW SECONDARY FROM EXISTING UNUSED CUSTOMER-OWNED PADMOUNTED TRANSFORMER LOCATED APPROXIMATELY 150 FEET FROM FENCE AT THE SOUTHWEST CORNER. TRANSFORMER IS A WESTINGHOUSE, 75 KVA, 3 PHASE, 12.57 KV PRIMARY TO 120/208 VOLT SECONDARY. COORDINATE PRIMARY SHUT DOWN TO TRANSFORMER WITH STATE FACILITY ELECTRICIAN. EXCAVATE UNDER EXISTING TRANSFORMER TO ROUTE NEW SECONDARY CONDUIT FROM SECONDARY WINDOW IN CONCRETE BASE TO PROPOSED CONTROL/POWER CABINET.

STATE OF MAINE
BRIAN T. GARDNER
No. 13506
LICENSED
PROFESSIONAL ENGINEER
ELECTRICAL

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NUMBER	DATE	BY	DESCRIPTION

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CHAMBERLAIN STREET
PARKING LOT IMPROVEMENTS
PREPARED FOR
STATE OF MAINE
BUREAU OF REAL ESTATE MANAGEMENT

DATE	PROJECT
2021-04-09	2019-38
DRAWN BY	SCALE
GMC	AS NOTED

ISSUED FOR CONSTRUCTION - 04-09-2021

N:\Projects\2021\21031 - Chamberlain St Parking Lot\4a DRAWINGS\21031-ES.dwg Apr 09, 2021 - 10:36am

Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	A3HS	2	Lithonia Lighting	DSX0 LED P3 50K T3M MVOLT HS SPUMBA DDBXD with SSS 18 4C DM19AS DDBXD	DSX0 LED Area Fixture with houseside shield; mounted at 20ft (18ft pole on 2ft base)	LED	1	DSX0_LED_P3_50K_T3M_MVOLT_HS.ies	6733	0.9	71
	A4HS	6	Lithonia Lighting	DSX0 LED P3 50K TFTM MVOLT HS SPUMBA DDBXD with SSS 18 4C DM19AS DDBXD	DSX0 LED Area Fixture with houseside shield; mounted at 20ft (18ft pole on 2ft base)	LED	1	DSX0_LED_P3_50K_TFTM_MVOLT_HS.ies	6678	0.9	71

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Outside of Parking Lots	+	0.2 fc	2.7 fc	0.0 fc	N/A	N/A
Parking Lot (27 spaces)	+	1.6 fc	2.9 fc	0.2 fc	14.5:1	8.0:1
Parking Lot (58 spaces)	+	1.3 fc	2.5 fc	0.2 fc	12.5:1	6.5:1

CHAMBERLAIN ST PARKING LOTS
Augusta
Site Lighting Layout

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SVR ENGINEERING, INC.

Designer	Heidi G. Connors Visible Light, Inc. 24 Stickney Terrace Suite 6 Hampton, NH 03842
Date	1/16/2020
Scale	1"=20'
Drawing No.	
Summary	

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 ft² (.09 m²)

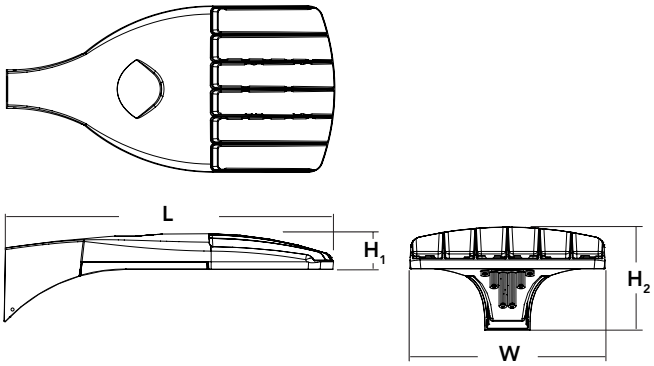
Length: 26" (66.0 cm)

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

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.

A+ Capable options indicated by this color background.

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

Control options		Other options	Finish *(required)*
Shipped installed NLTAIR2 nLight AIR generation 2 enabled[8,9] PIRHN Network, high/low motion/ambient sensor[10] PER NEMA twist-lock receptacle only (control ordered separate) [11] PER5 Five-pin receptacle only (control ordered separate) [11,12] PER7 Seven-pin receptacle only (leads exit fixture) (control ordered separate) [11,12] DMG 0-10V dimming extend out back of housing for external control (control ordered separate) [13] PIR High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc [14,15] PIRH High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc [14,15] PIR1FC3V High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc [14,15] PIRH1FC3V High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc [14,15] FAO Field adjustable output [16]		**Shipped installed** HS House-side shield [17] SF Single fuse (120, 277, 347V) [4] DF Double fuse (208, 240, 480V) [4] L90 Left rotated optics [1] R90 Right rotated optics [1] DDL Diffused drop lens [17] **Shipped separately** BS Bird spikes [18] 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

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Ordering Information

Accessories

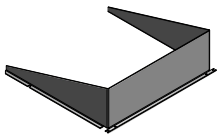
Ordered and shipped separately.

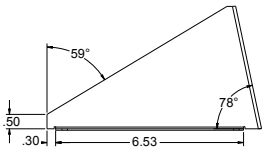
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [19]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [19]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [19]
DSHORT SBK U	Shorting cap [19]
DSX0HS 20C U	House-side shield for P1,P2,P3 and P4 [17]
DSX0HS 30C U	House-side shield for P10,P11,P12 and P13 [17]
DSX0HS 40C U	House-side shield for P5,P6 and P7 [17]
DSX0DDL U	Diffused drop lens (polycarbonate) [17]
PUMBA DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish) [20]
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) [6]
DSX0EGS (FINISH) U	External glare shield

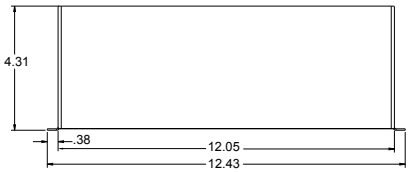
For more control options, visit DTL and ROAM online. Link to nLight Air 2

NOTES
1 P10, P11, P12 and P13 and rotated options (L90 or R90) only available together.
2 Not available with HS or DDL.
3 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
4 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
5 Not available with BL30, BL50 or PNMT options.
6 Universal mounting brackets intended for retrofit on existing pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31.
7 Must order fixture with SPA mounting. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
8 Must be ordered with PIRHN.
9 Sensor cover available only in dark bronze, black, white and natural aluminum colors.
10 Must be ordered with NLTAIR2. For more information on nLight Air 2 visit this link
11 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
12 If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
13 DMG not available with PIRHN, PER5, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V.
14 Reference Motion Sensor table on page 3.
15 Reference PER Table on page 3 to see functionality.
16 Not available with other dimming controls options.
17 Not available with BLC, LCCO and RCCO distribution.
18 Must be ordered with fixture for factory pre-drilling.
19 Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
20 For retrofit use only.

EGS – External Glare Shield

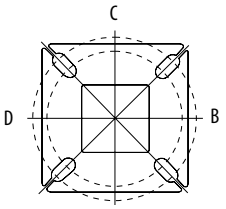


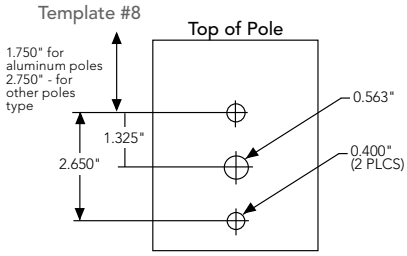




Drilling

HANDHOLE ORIENTATION
(from top of pole)





Tenon Mounting Slipfitter

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	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"

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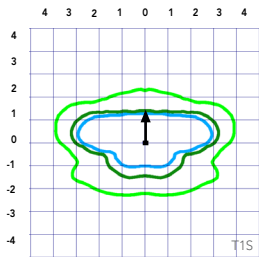
Photometric Diagrams

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

- 0.1 fc
- 0.5 fc
- 1.0 fc



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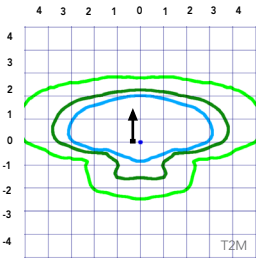

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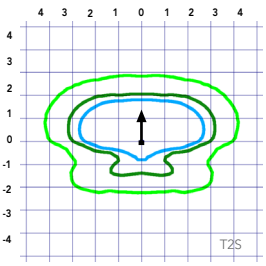
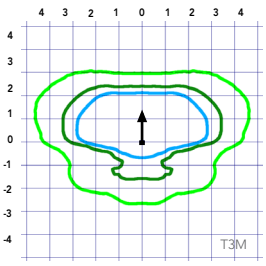
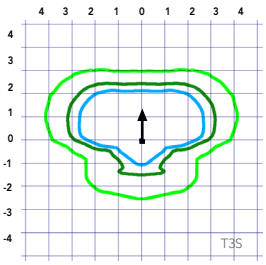


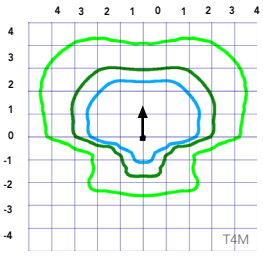
Test No. LTL23457P25 tested in accordance with IESNA LM-79-08.



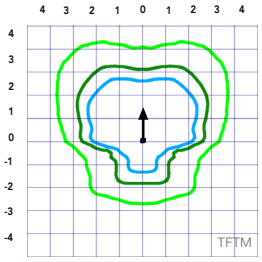
Test No. LTL23457P25 tested in accordance with IESNA LM-79-08.



Test No. LTL23457P25 tested in accordance with IESNA LM-79-08.



Test No.



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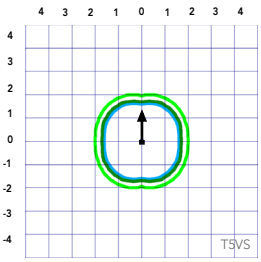

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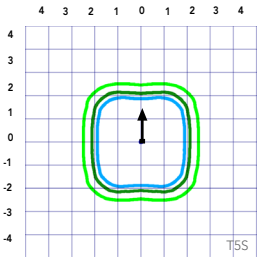

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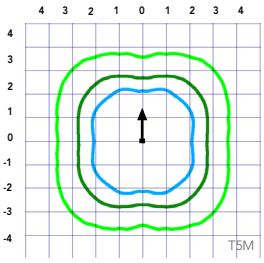

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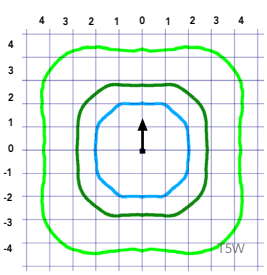
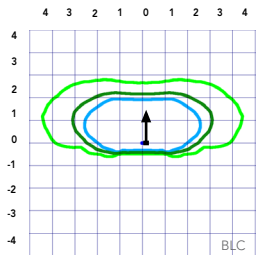


Test No. LTL23451P25 tested in accordance with IESNA LM-79-08.



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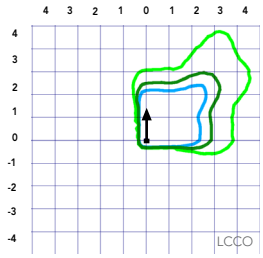

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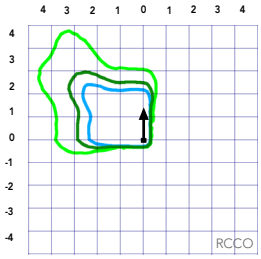

Test No.

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

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Phototcell 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 with separate Dusk to Dawn or timer.						

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

Controls Options

Nomenclature	Descripton	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the lumiaire; wired to the driver dimming leads.	Allows the lumiaire 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 independantly for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two seperately 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
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBGR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclypse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.

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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
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
				T5VS	4,548	2	0	0	120	4,900	2	0	0	129	4,962	2	0	0	131
				T5S	4,552	2	0	0	120	4,904	2	0	0	129	4,966	2	0	0	131
				T5M	4,541	3	0	1	120	4,891	3	0	1	129	4,953	3	0	1	130
				T5W	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
				T5VS	5,799	2	0	0	118	6,247	2	0	0	127	6,327	2	0	0	129
				T5S	5,804	2	0	0	118	6,252	2	0	0	128	6,332	2	0	1	129
				T5M	5,789	3	0	1	118	6,237	3	0	1	127	6,316	3	0	1	129
				T5W	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
				T5VS	8,155	3	0	0	115	8,785	3	0	0	124	8,896	3	0	0	125
				T5S	8,162	3	0	1	115	8,792	3	0	1	124	8,904	3	0	1	125
				T5M	8,141	3	0	2	115	8,770	3	0	2	124	8,881	3	0	2	125
				T5W	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
				T5VS	10,193	3	0	1	111	10,981	3	0	1	119	11,120	3	0	1	121
				T5S	10,201	3	0	1	111	10,990	3	0	1	119	11,129	3	0	1	121
				T5M	10,176	4	0	2	111	10,962	4	0	2	119	11,101	4	0	2	121
				T5W	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
					5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71

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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
				T5VS	11,276	3	0	1	127	12,148	3	0	1	136	12,302	3	0	1	138
				T5S	11,286	3	0	1	127	12,158	3	0	1	137	12,312	3	0	1	138
				T5M	11,257	4	0	2	126	12,127	4	0	2	136	12,280	4	0	2	138
				T5W	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
				T5VS	15,413	4	0	1	115	16,604	4	0	1	124	16,815	4	0	1	125
				T5S	15,426	3	0	1	115	16,618	4	0	1	124	16,828	4	0	1	126
				T5M	15,387	4	0	2	115	16,576	4	0	2	124	16,786	4	0	2	125
				T5W	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
				T5VS	17,723	4	0	1	107	19,092	4	0	1	115	19,334	4	0	1	116
				T5S	17,737	4	0	2	107	19,108	4	0	2	115	19,349	4	0	2	117
				T5M	17,692	4	0	2	107	19,059	4	0	2	115	19,301	4	0	2	116
				T5W	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
					10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68

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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
				T5VS	6,898	3	0	0	130	7,431	3	0	0	140	7,525	3	0	0	142
				T5S	6,840	2	0	1	129	7,368	2	0	1	139	7,461	2	0	1	141
				T5M	6,838	3	0	1	129	7,366	3	0	2	139	7,460	3	0	2	141
				T5W	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
				T5VS	8,812	3	0	0	122	9,493	3	0	0	132	9,613	3	0	0	134
				T5S	8,738	3	0	1	121	9,413	3	0	1	131	9,532	3	0	1	132
				T5M	8,736	3	0	2	121	9,411	3	0	2	131	9,530	3	0	2	132
				T5W	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
				T5VS	12,456	3	0	1	120	13,419	3	0	1	129	13,589	4	0	1	131
				T5S	12,351	3	0	1	119	13,306	3	0	1	128	13,474	3	0	1	130
				T5M	12,349	4	0	2	119	13,303	4	0	2	128	13,471	4	0	2	130
				T5W	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
				T5VS	14,804	4	0	1	116	15,948	4	0	1	125	16,150	4	0	1	126
				T5S	14,679	3	0	1	115	15,814	3	0	1	124	16,014	3	0	1	125
				T5M	14,676	4	0	2	115	15,810	4	0	2	124	16,010	4	0	2	125
				T5W	14,544	4	0	3	114	15,668	4	0	3	122	15,866	4	0	3	124
				BLC	7919	3	0	3	62	8531	3	0	3	67	8639	3	0	3	67
				LCCO	5145	1	0	2	40	5543	1	0	2	43	5613	1	0	2	44
					5139	3	0	3	40	5536	3	0	3	43	5606	3	0	3	44

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A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability[1]
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background[1]

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

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire.
   Sold Separately: Link to Roam; Link to DTL DLL

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 ft^2) for optimized pole wind loading.

FINISH

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

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 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. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programing and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS

The 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 luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 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 for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

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

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

WARRANTY

5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/resources/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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