

STRUCTURAL CONSULTANT
**REYN
ENGINEERING**

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414.254.8526*

CIVIL ENGINEER
**PINNACLE
ENGINEERING
GROUP**

*20725 Watertown Road
Waukesha, WI 53186
262.754.8888*

Le Bon Vivant

41 Unit Apartment Building

Wauwatosa, Wisconsin

OWNER

Cardinal Capitol Management, Inc.

*901 South 70th Street
West Allis, WI 53214*



RENDERING IS REPRESENTATIVE ONLY.... SEE DOCUMENTS FOR SPECIFIC DETAILS

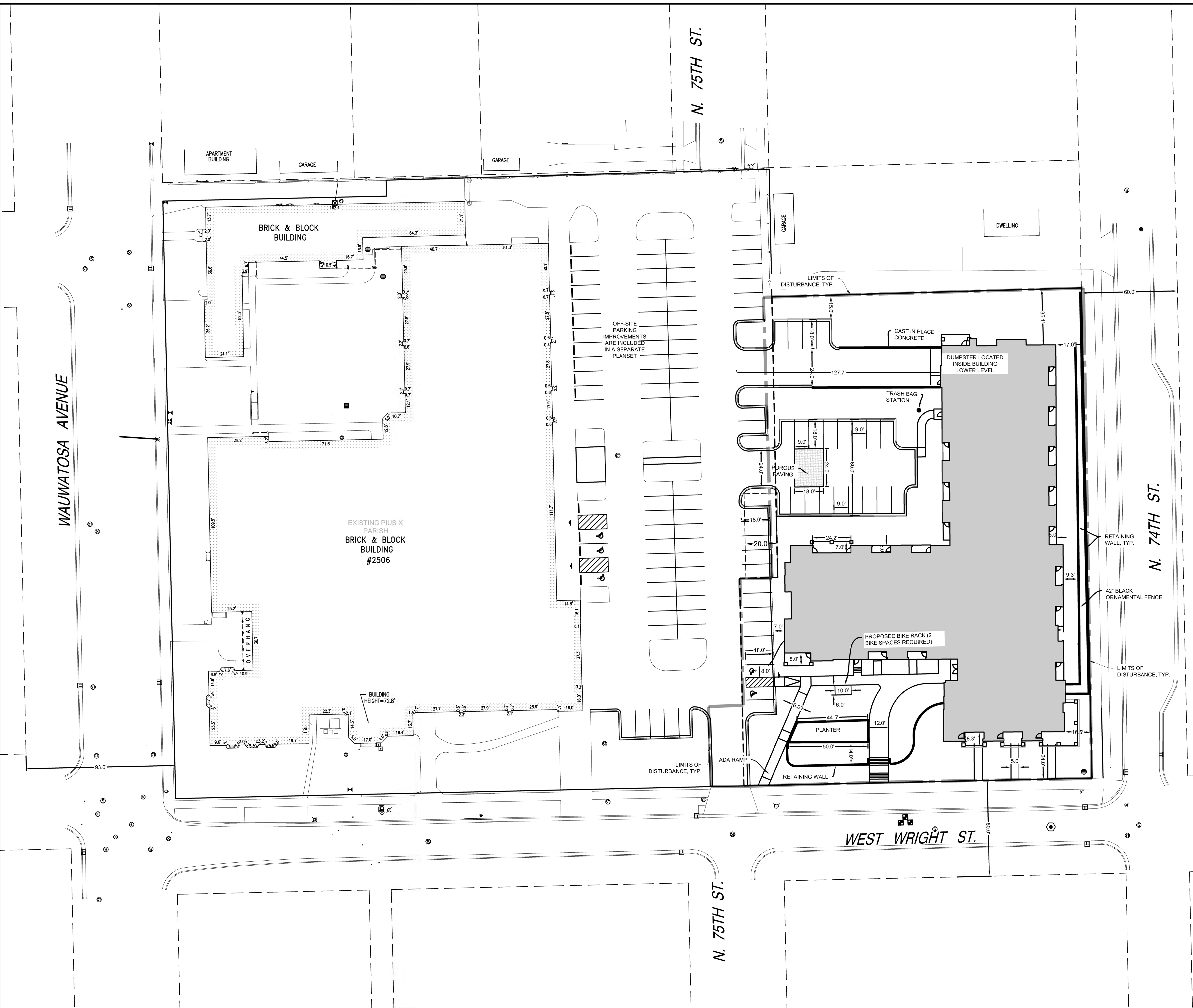
DESIGN REVIEW SUBMISSION

AG PROJECT NUMBER: 201101
DATE: 27 JULY 2021



1414 UNDERWOOD AVE. WAUWATOSA, WI 53213 414-431-3131 TEL 414-431-0531 FAX WWW.AGARCH.COM

DESIGNED: JMW
DRAWN: JMW
CHECKED: JMW
REVIEWED: JMW
DATE: 7/8/2021
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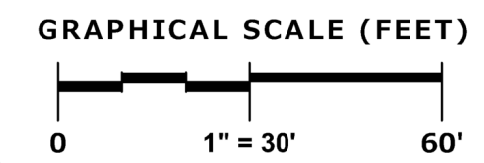


SITE DATA TABLE	
APARTMENTS PARCEL (1.43AC)	EXISTING IMPERVIOUS SURFACE: 1.43 AC
	PROPOSED IMPERVIOUS SURFACE: 0.87 AC
	NET PAVING REDUCTION: 0.56 AC
	SURFACE PARKING STALLS: 30 STALLS
	ADA ACCESSIBLE PARKING STALLS: 4 STALLS (2 VAN ACCESSIBLE STALLS)
BUILDING COVERAGE: 35%	
PIUS X PARCEL	EXISTING PARKING STALLS: 75 STALLS
	PROPOSED PARKING STALLS: 88 STALLS

LEGEND	
	CURB AND GUTTER
	DEPRESSED CURB
	REVERSE PITCH CURB & GUTTER

NOTE: PAVEMENT MARKINGS SHALL BE COLORED YELLOW AND BE 3" WIDE

NOTE: ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY REQUIRES A STREET OCCUPANCY PERMIT FROM THE CITY



LE BON VIVANT
WAUWATOSA, WI

SITE PLAN

REVISIONS	

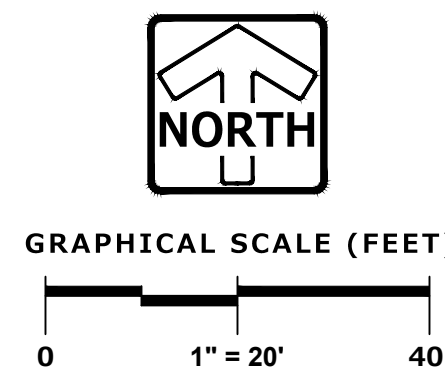
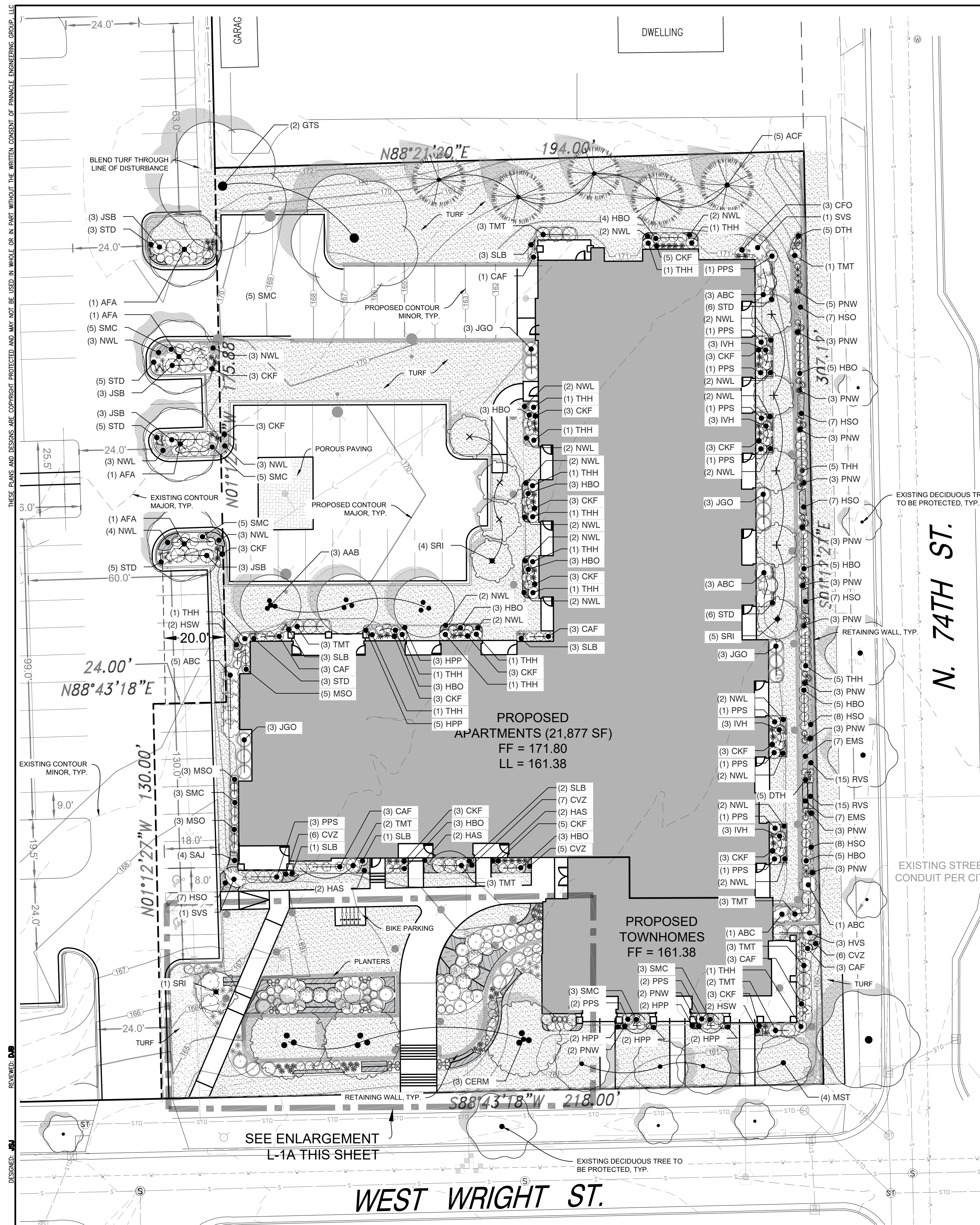
REG JOB No. 840.00-WV	AEK	SHEET
REG PM	AEK	C-2
START DATE 7/8/2021		C-8
SCALE 1" = 30'		C-7

PLAN | DESIGN | DELIVER
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PINNACLE ENGINEERING GROUP
ENGINEERING | NATURAL RESOURCES | SURVEYING

WISCONSIN OFFICE:
20725 WATERTOWN ROAD, SUITE 100
BROOKFIELD, WI 53186
(262) 754-8888

CHICAGO | MILWAUKEE | NATIONWIDE



PLANT SCHEDULE

TREES	BOTANICAL NAME	COMMON NAME	SIZE	QTY	MATURE SIZE
AFA	Acer freemanii 'Autumn Fantasy'	Autumn Fantasy Maple	2' Cal.	4	45' T x 35' W
AAB	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	8' Ht.	3	30' T x 20' W
CERM	Cercis canadensis	Eastern Redbud Multi-stem	8' Ht.	4	25' T x 25' W
GTS	Gleditsia triacanthos inermis 'Shademaster'	Shademaster Locust	2' Cal.	2	60' T x 50' W
MST	Malus x 'Sugar Tyme'	Sugar Tyme Crabapple	1.5' Cal.	4	22' T x 20' W
SRI	Syringa reticulata 'Ivory Silk'	Ivory Silk Tree Lilac	1.5' Cal.	10	25' T x 15' W

EVERGREEN TREES	BOTANICAL NAME	COMMON NAME	SIZE	QTY	MATURE SIZE
ACF	Abies concolor	White Fir	5' Ht.	5	25' T x 25' W

SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	QTY	MATURE SIZE
ABC	Aronia melanocarpa 'Elate'	Glossy Black Chokeberry	3 gal.	15	5' T x 5' W
CAF	Cornus stolonifera 'Arctic Fire'	Arctic Fire Dogwood	2 gal.	16	3' T x 3' W
HVS	Hydrangea p 'Vanilla Strawberry'	Vanilla Strawberry Hydrangea	3 gal.	9	7' T x 5' W
HBO	Hydrangea paniculata 'Bobo'	Bobo Hydrangea	2 gal.	60	3' T x 4' W
IVH	Itea virginica 'Little Henry'	Little Henry Sweetspire	2 gal.	12	3' T x 3' W
PMW	Picea glauca 'JN SELECT'	Midway White Spruce	5' Ht.	4	12' T x 6' W
SMC	Spiraea japonica 'Magic Carpet'	Magic Carpet Spirea	2 gal.	34	2' T x 3' W
SIC	Stephanandra incisa 'Crispa'	Cutleaf Stephanandra	2 gal.	24	2' T x 4' W
SVS	Syringa vulgaris 'Sensation'	Sensation Lilac	3 gal.	2	10' T x 9' W

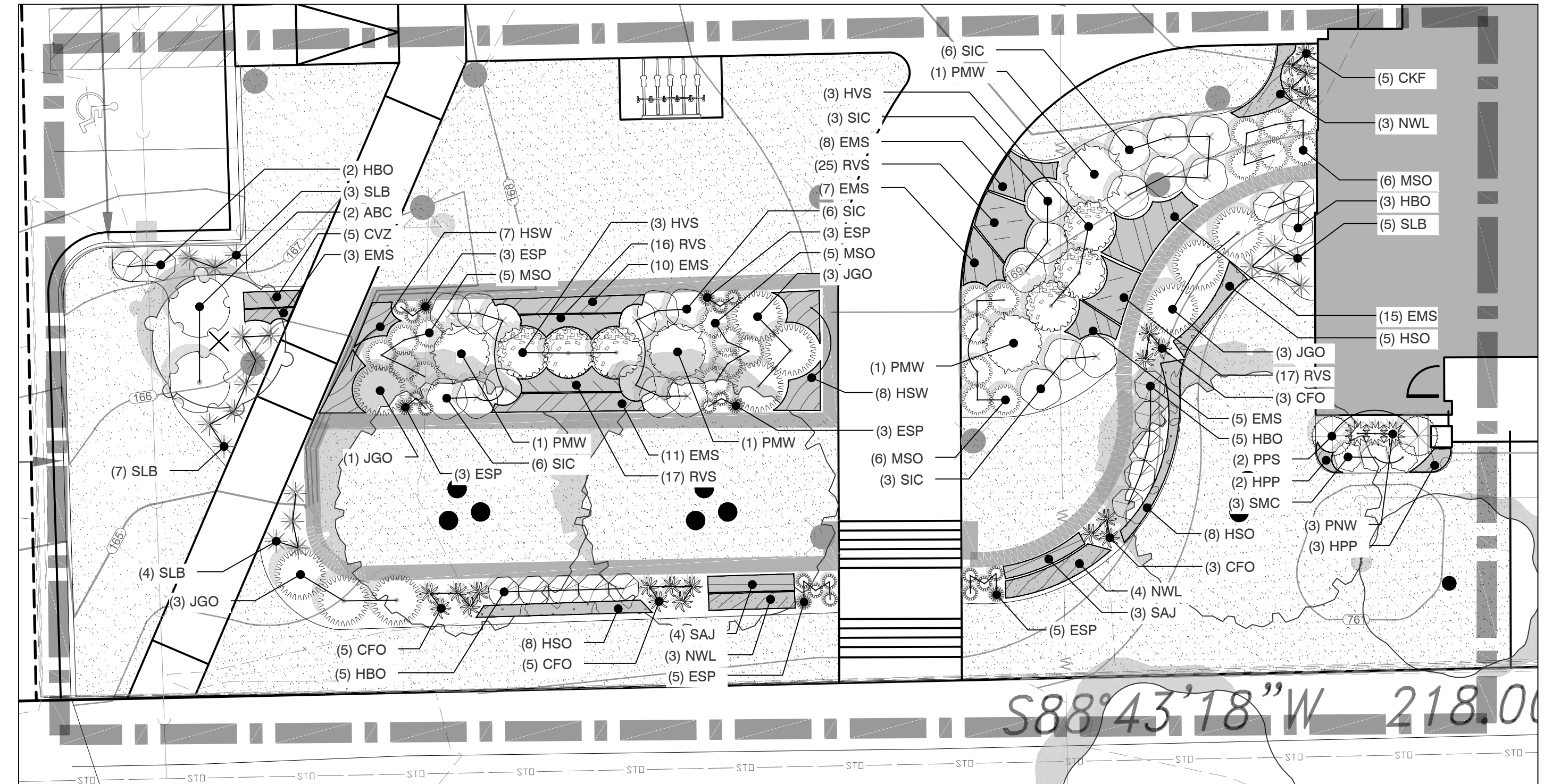
EVERGREEN SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	QTY	MATURE SIZE
JSB	Juniperus sabina 'Buffalo'	Buffalo Juniper	3 gal.	12	1' T x 7' W
JGO	Juniperus virginiana 'Grey Owl'	Eastern Redcedar Juniper	2 gal.	22	3' T x 5' W
PPS	Picea abies 'Pumila'	Pumila Spruce	3 gal.	18	3' T x 4' W
TMT	Taxus x media 'Tauntonii'	Tauton Yew	3 gal.	20	4' T x 5' W
THH	Thuja occidentalis 'Holmstrup'	Holmstrup Cedar	4' Ht.	24	14' T x 4' W

ORNAMENTAL GRASSES	BOTANICAL NAME	COMMON NAME	SIZE	QTY	MATURE SIZE
CKF	Calamagrostis x a 'Karl Foerster'	Karl Foerster Reed Grass	1 gal.	60	36" T x 24" W
CFO	Calamagrostis x a 'Overdam'	Overdam Reed Grass	1 gal.	19	24" T x 24" W
DTH	Deschampsia cespitosa	Tufted Hair Grass	1 gal.	10	24" T x 30" W
ESP	Eragrostis spectabilis	Purple Love Grass	1 gal.	22	24" T x 18" W
MSO	Miscanthus sinensis 'Oktoberfest'	Oktoberfest Miscanthus	1 gal.	33	48" T x 36" W
PNW	Panicum virgatum 'Northwind'	Northwind Switch Grass	1 gal.	45	42" T x 28" W
SLB	Schizachyrium scoparium 'Blue Heaven'	Blue Heaven Little Bluestem Grass	1 gal.	32	30" T x 28" W
STD	Sporobolus heterolepis 'Tara'	Prairie Dropseed	1 gal.	33	15" T x 20" W

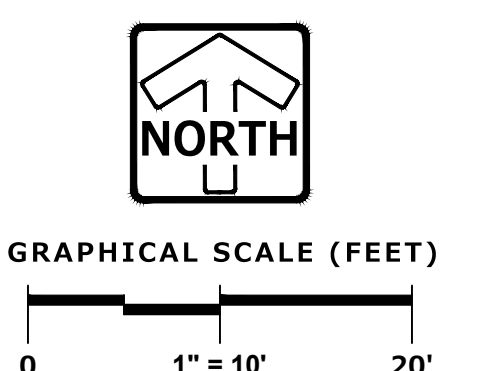
PERENNIALS	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QTY	MATURE SIZE
CVZ	Coreopsis verticillata 'Zagreb'	Zagreb Coreopsis	4.5" cont.	16" o.c.	29	20" T x 16" W
EM5	Echinacea purpurea 'Magnus Superior'	Magnus Superior Coneflower	4.5" cont.	18" o.c.	73	28" T x 18" W
HAS	Helianthus autumnale	Sneezeweed	4.5" cont.	30" o.c.	6	28" T x 30" W
HSO	Hemerocallis 'Stella De Oro'	Stella De Oro Daylily	4.5" cont.	20" o.c.	72	12" T x 20" W
HSW	Hemerocallis 'Summer Wine'	Summer Wine Daylily	4.5" cont.	24" o.c.	19	18" T x 24" W
HPP	Heuchera m 'Palace Purple'	Palace Purple Coral Bells	4.5" cont.	18" o.c.	21	18" T x 18" W
NWL	Nepeta x 'Walker's Low'	Walker's Low Catmint	4.5" cont.	28" o.c.	69	20" T x 28" W
RVS	Rudbeckia f 'Viete's Little Suzy'	Viete's Little Suzy Showy Coneflower	4.5" cont.	12" o.c.	105	10" T x 12" W
SAJ	Sedum 'Autumn Joy'	Autumn Joy Sedum	4.5" cont.	24" o.c.	11	12" T x 24" W

GROUND COVERS	BOTANICAL NAME	COMMON NAME	QTY
	Turf Hydrosed	Drought Tolerant Fescue Blend	19,459 sf

LANDSCAPE IMPROVEMENT TABLE	REQUIRED	PROVIDED
PARKING SCREENING/FRONTAGE 23 FT		
• TREES 2/50 FT	1	1
• SHRUBS 8/50 FT	4	4
INTERIOR VEHICULAR AREA 6,966 SQ FT		
• GREEN SPACE 10%	697 SQ FT	800 SQ FT
• TREE 1/180 SQ FT	4	4



ENLARGEMENT L-1A
SCALE: 1"=10'



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WAUWATOSA, WI

LANDSCAPE PLAN

REVISIONS

SHEET
L-1
 OF
L-3

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 REVISIONS:
 DESIGNED BY:
 DATED:

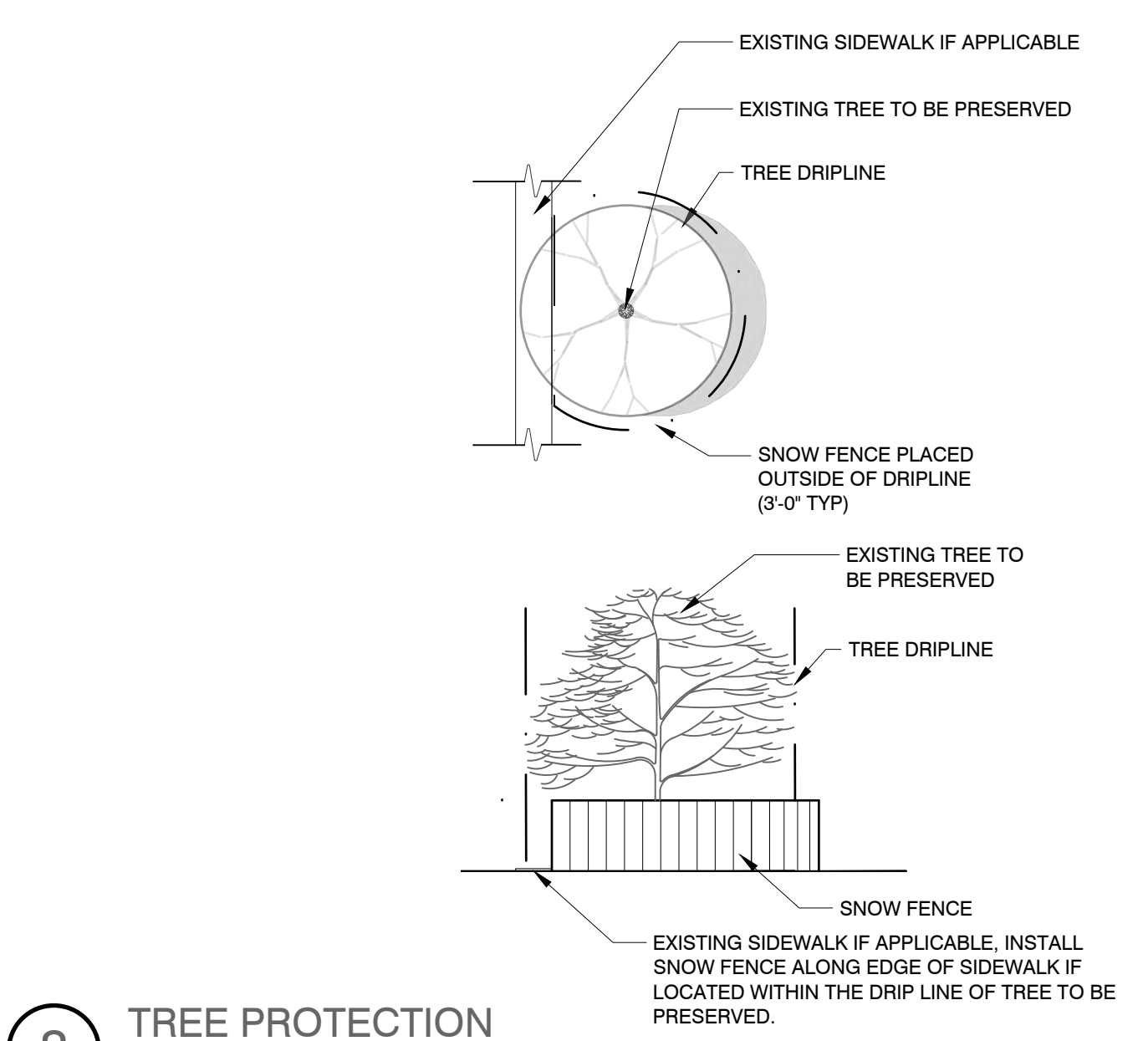
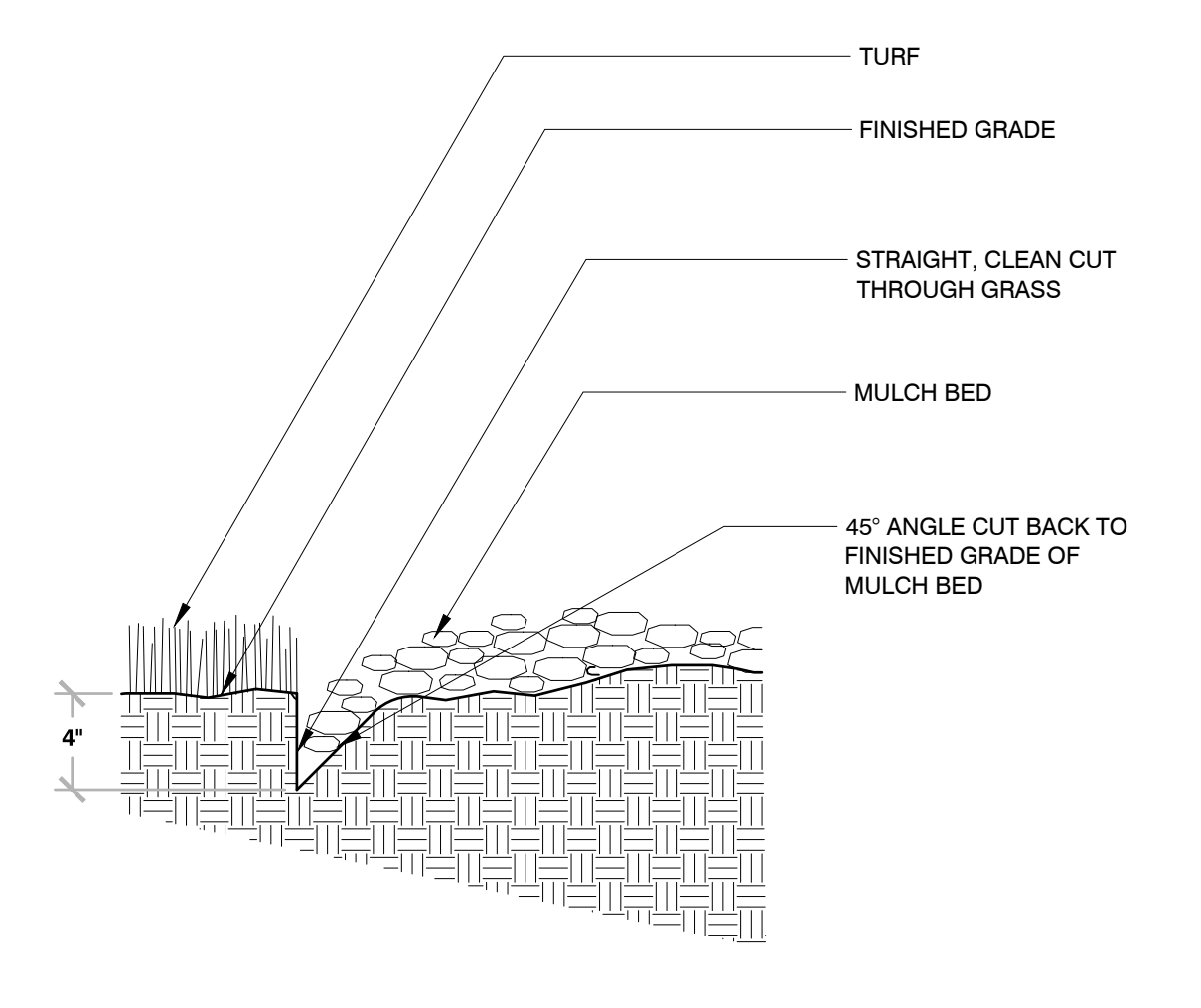
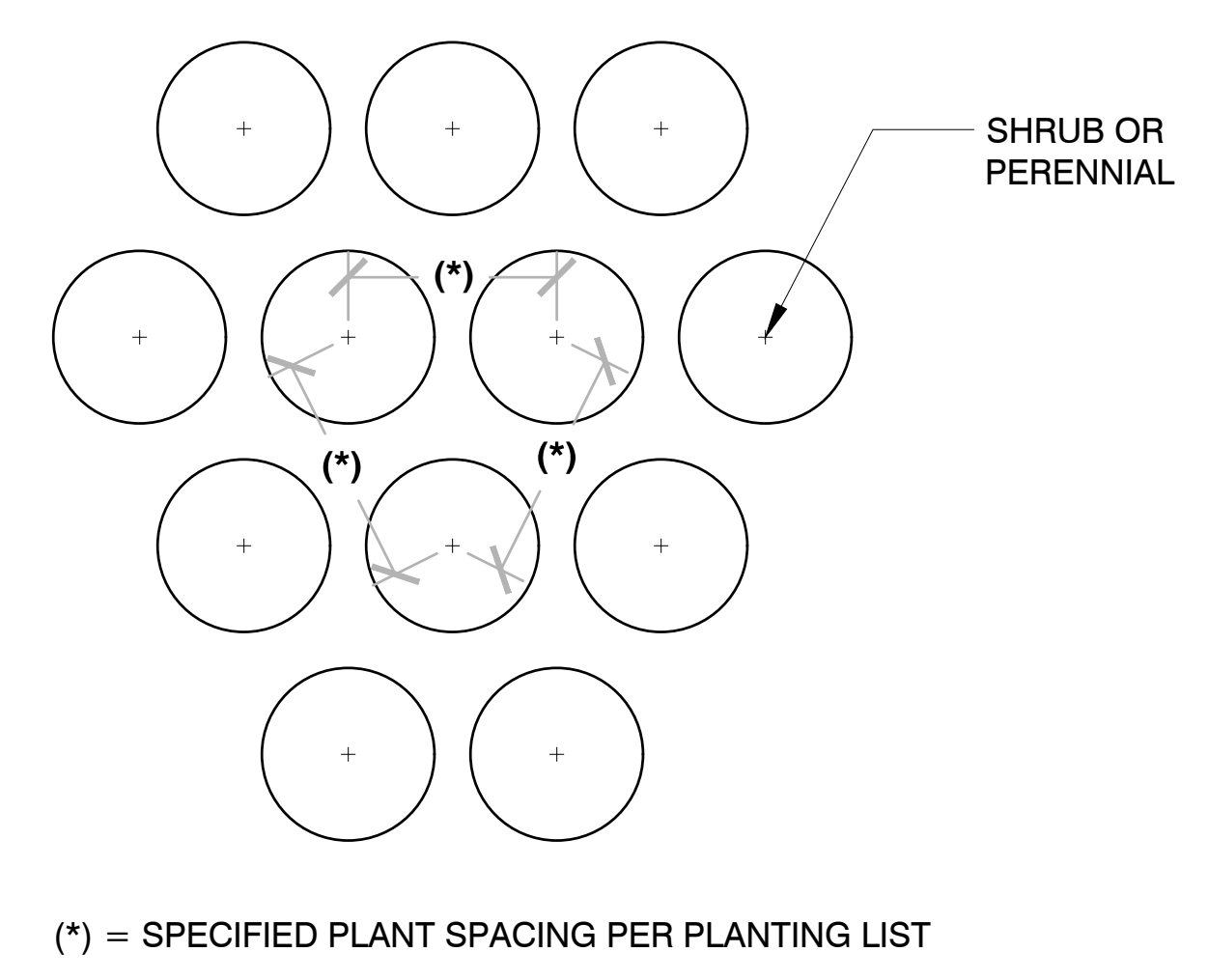
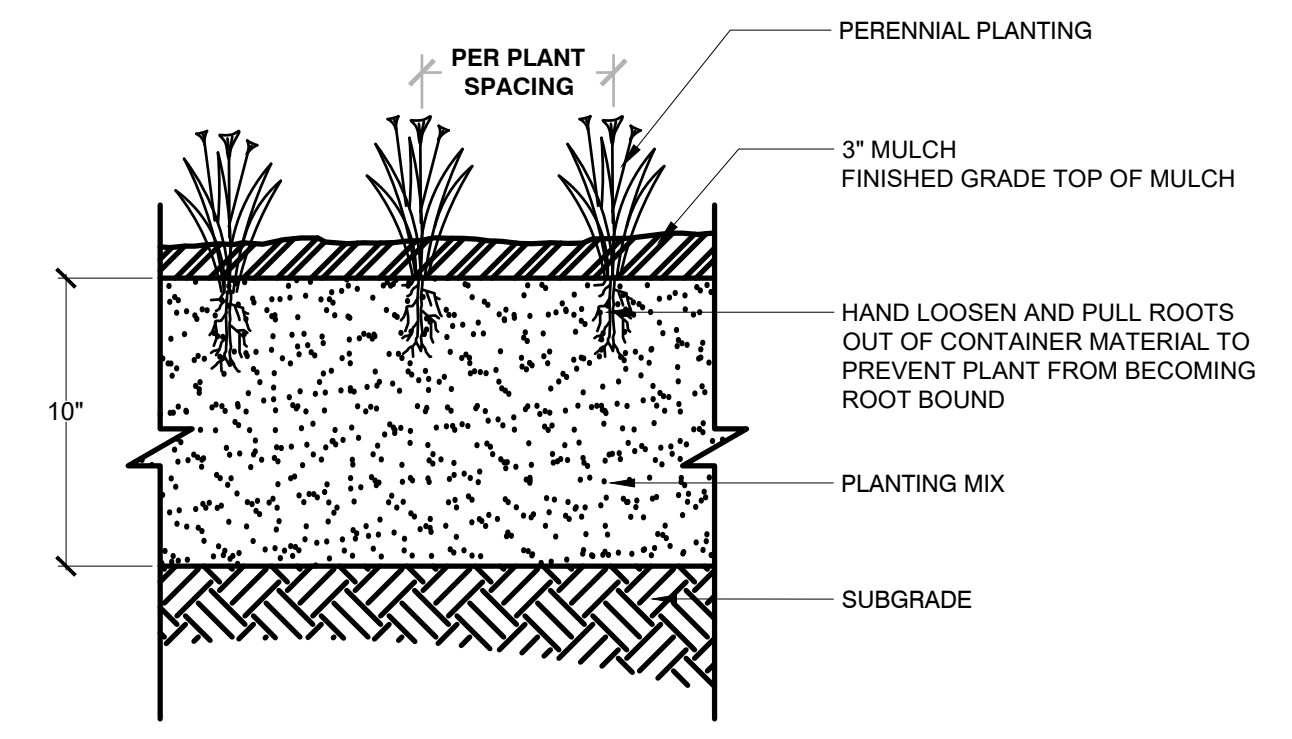
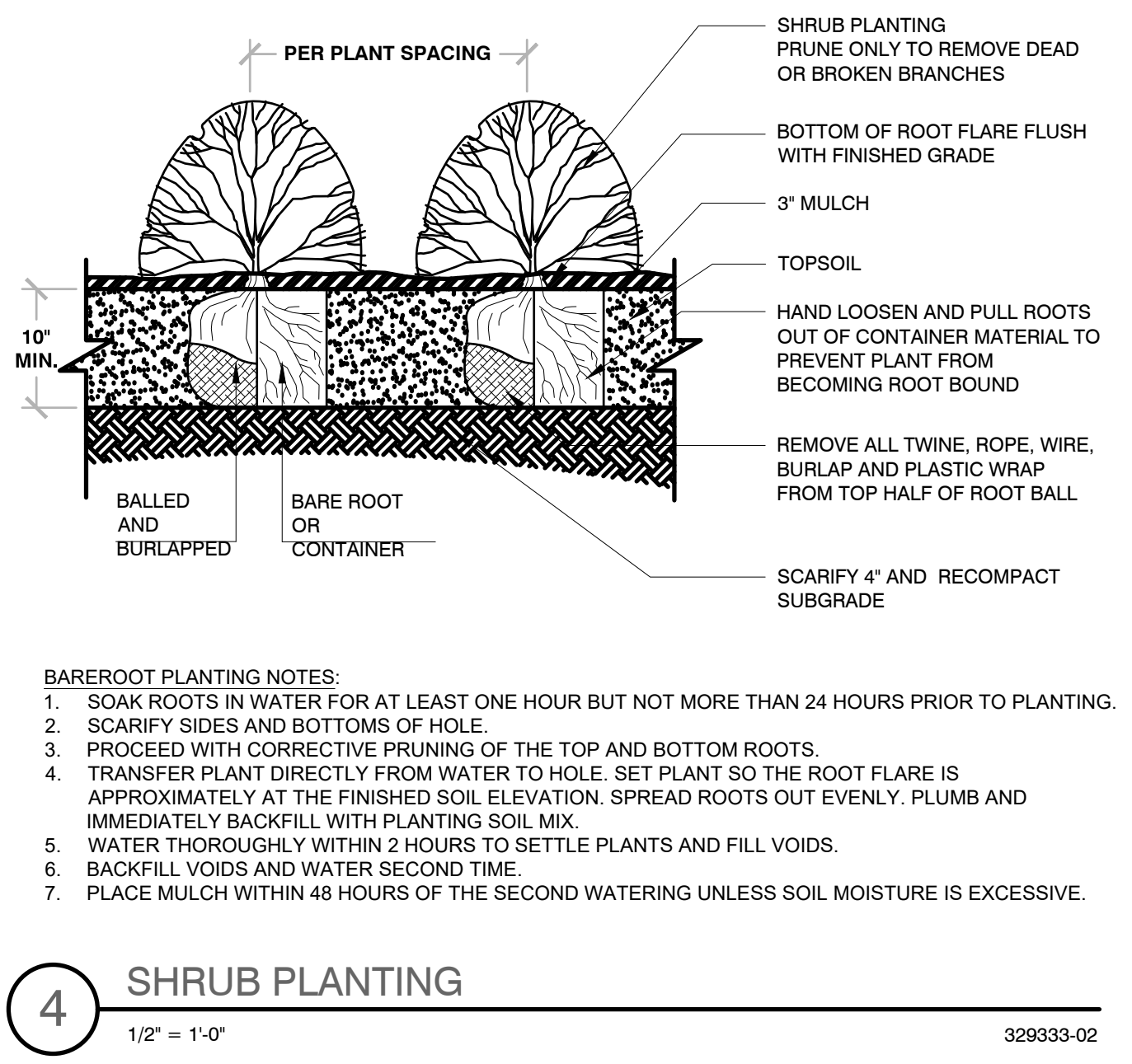
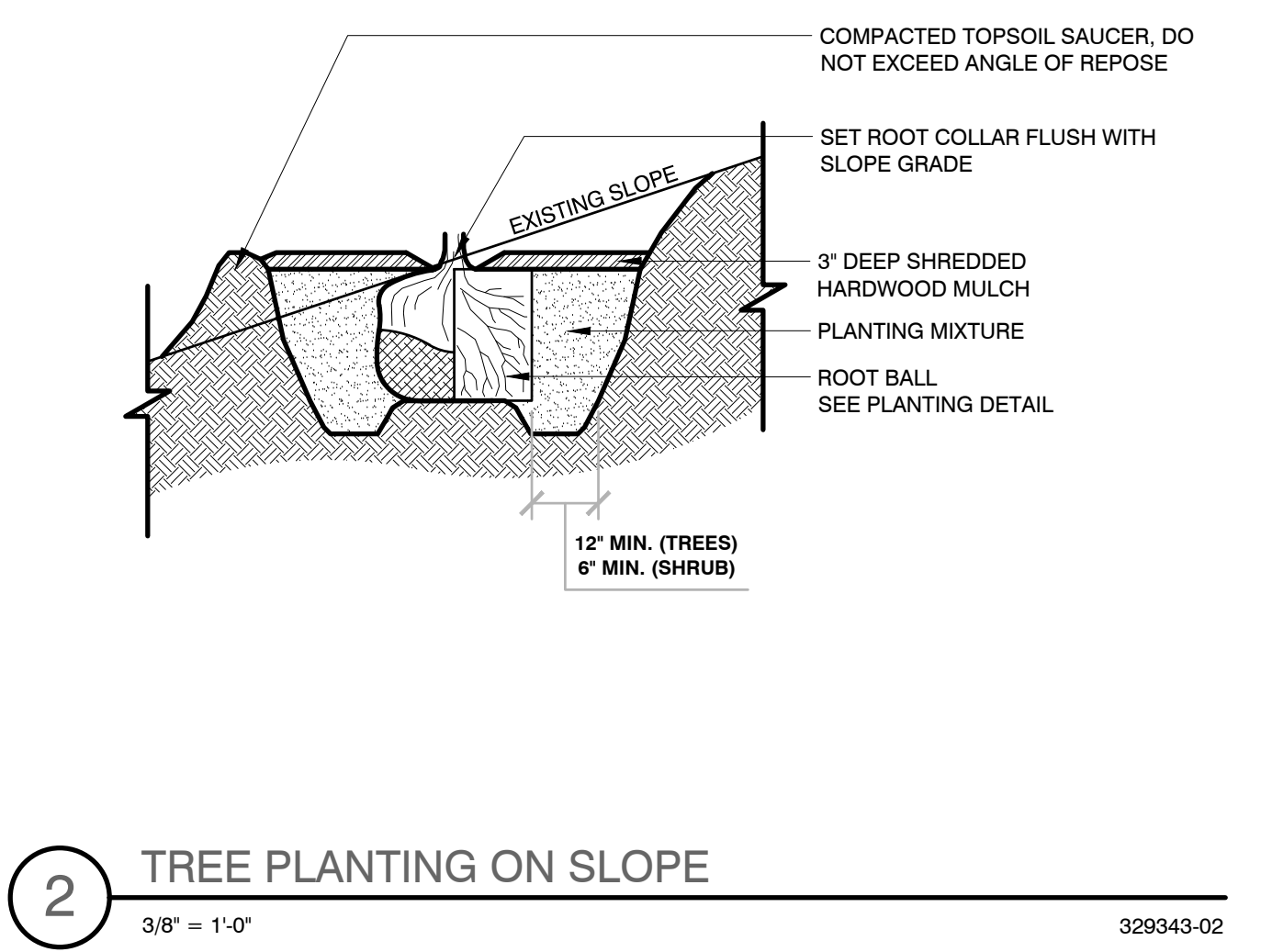
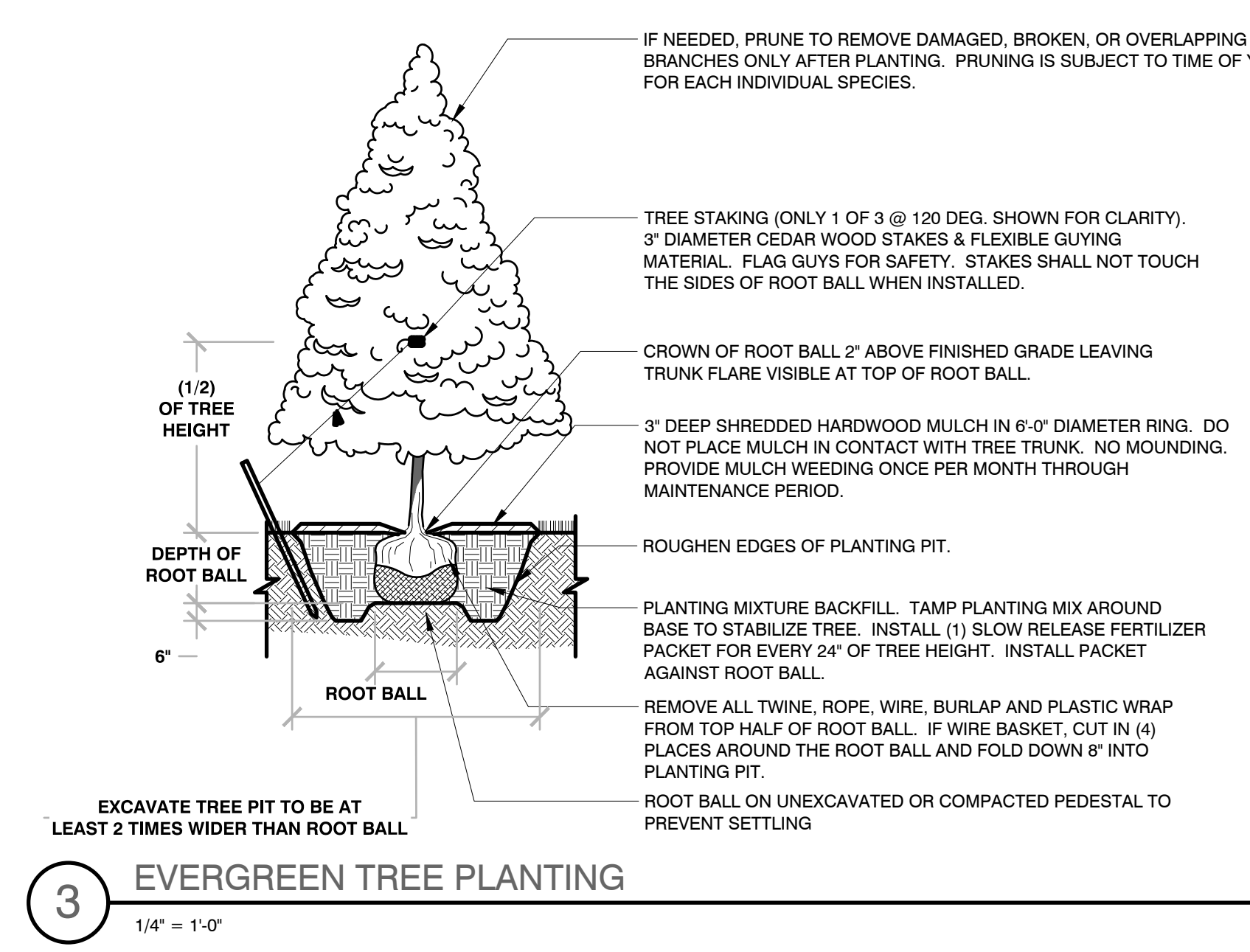
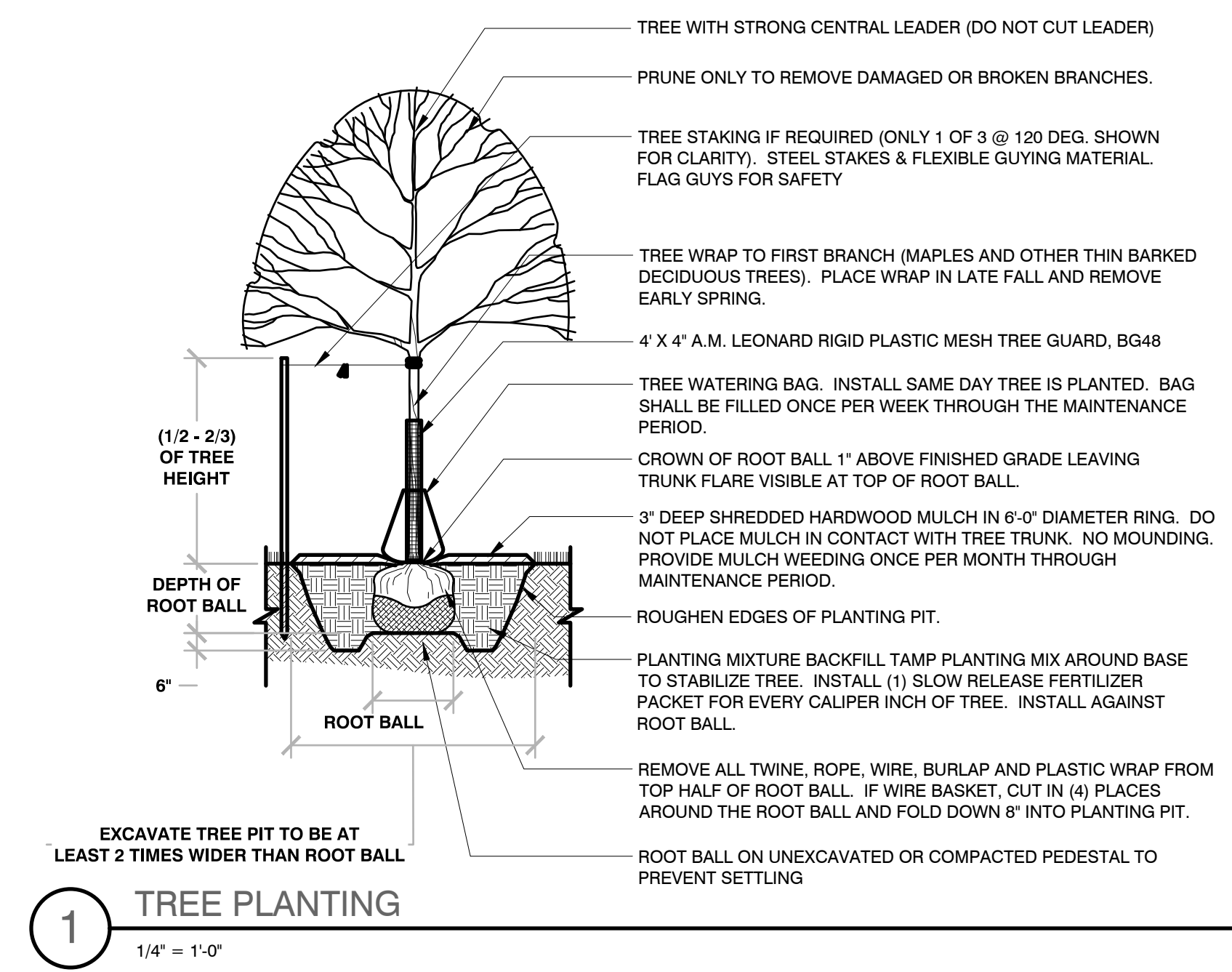
GENERAL PLANTING NOTES

- THE LAYOUT OF ALL PLANTING BEDS AND INDIVIDUAL TREES AND SHRUBS SHALL BE STAKED BY THE CONTRACTOR IN ADVANCE OF INSTALLATION. FLAGGING, STAKES, OR PAINT MAY BE USED TO DELINEATE LOCATIONS AS SCALED FROM THE PLANS. AN APPROVED REPRESENTATIVE WILL REVIEW THESE LOCATIONS WITH THE CONTRACTOR AND MAKE MINOR ADJUSTMENTS AS NECESSARY. BED LAYOUT SHALL ALSO INCLUDE PERENNIAL GROUPINGS BY SPECIES.
- THE CONTRACTOR IS RESPONSIBLE FOR INDEPENDENTLY DETERMINING THE PLANT MATERIAL QUANTITIES REQUIRED BY THE LANDSCAPE PLANS. REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
- NO PLANT MATERIAL OR PLANT SIZE SUBSTITUTIONS WILL BE ACCEPTED UNLESS APPROVAL BY THE LANDSCAPE ARCHITECT. ANY CHANGES SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT IN WRITING PRIOR TO INSTALLATION.
- ALL BNB STOCK SHALL BE NURSERY GROWN IN A CLAY LOAM SOIL FOR A MINIMUM OF THREE GROWING SEASONS WITHIN 200 MILES OF PROJECT LOCATION, IN A ZONE COMPATIBLE WITH USDA HARDINESS ZONE 5A. SEED SHALL BE PROVIDED FROM A NURSERY (WITHIN 200 MILES) WITH A SIMILAR PLANT HARDINESS ZONE AS PROJECT LOCATION. EXISTING SOIL SHALL BE AMENDED PER SOIL ANALYSIS REPORT TO ENSURE A PROPER GROWING MEDIUM IS ACHIEVED.
- ALL PLANT MATERIAL SHALL COMPLY WITH STANDARDS DESCRIBED IN AMERICAN STANDARD OF NURSERY STOCK - Z60.1 ANSI. LANDSCAPE ARCHITECT OR OWNERS AUTHORIZED REPRESENTATIVE RESERVES THE RIGHT TO INSPECT AND POTENTIALLY REJECT ANY PLANT MATERIAL DEEMED TO NOT MEET THE REQUIRED STANDARDS.
- ALL STOCK SHALL BE FREE OF DISEASES AND HARMFUL INSECTS, DAMAGE, DISORDERS AND DEFORMITIES.
- TREES SHALL HAVE SINGLE, STRAIGHT TRUNKS AND WELL BALANCED BRANCH SYSTEMS. HEIGHT-TO-CALIPER RATIOS SHALL BE CONSISTENT WITH THE LATEST EDITION OF ANSI Z60.1.
- ROOT SYSTEMS SHALL BE LARGE ENOUGH TO ALLOW FOR FULL RECOVERY OF THE TREE, AND SHALL CONFORM TO STANDARDS AS THEY APPEAR IN THE MOST CURRENT REVISION OF THE AMERICAN ASSOCIATION OF NURSERYMEN'S AMERICAN STANDARD OF NURSERY STOCK ANSI Z60.1.
- BNB TREES SHALL BE DUG WITH A BALL OF SOIL, NOT SOFT BALLED OR POTTED AND SHALL BE FIRM IN THEIR ROOTBALL. ROOT BALL SHALL BE WRAPPED (WITH BIODEGRADABLE MATERIAL). THE TREE ROOT FLARE, OR COLLAR, SHALL BE AT OR WITHIN THE TOP THREE INCHES OF GRADE.
- ALL SPRING TREES MUST BE FRESHLY DUG IN THE MOST RECENT SPRING.
- ALL AUTUMN TREES MUST BE FRESHLY DUG IN THE MOST RECENT AUTUMN.
- TREES SHALL BE ALIVE, HEALTHY AND APPROPRIATELY MOIST, AT TIME OF DELIVERY.
- ALL PLANT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH PLANTING DETAILS.
- ALL PLANTING BEDS SHALL HAVE A MINIMUM 10" DEPTH OF PREPARED SOIL. WITH APPROVAL, EXISTING SOIL MAY BE UTILIZED PROVIDED THE PROPER SOIL AMENDMENTS ARE TILLED THOROUGHLY INTO THE TOP 10" OF SOIL. REFER TO SOIL PLACEMENT NOTES.
- WHILE PLANTING TREES AND SHRUBS, BACKFILL 2/3 OF PLANTING HOLE AND WATER TREE THOROUGHLY BEFORE INSTALLING THE REMAINDER OF SOIL MIXTURE. AFTER ALL SOIL HAS BEEN PLACED INTO THE PLANTING HOLE WATER THOROUGHLY AGAIN.
- THE CONTRACTOR MUST LABEL ALL TREES WITH THE COMMON AND BOTANICAL NAMES PRIOR TO FINAL INSPECTION.
- TREES SHALL BE INSTALLED NO CLOSER THAN:
 - 10 FEET FROM ANY FIRE HYDRANT
 - 7 FEET FROM DRIVEWAYS, STORM SEWER, SANITARY SEWER LATERALS, AND WATER SERVICE
- ALL PLANTING BEDS SHALL BE MULCHED WITH 3" DEEP SHREDDED HARDWOOD MULCH, AND ALL TREES PLANTED IN TURF AREAS SHALL RECEIVE A 3" DEEP SHREDDED HARDWOOD MULCHED RING AS SHOWN IN PLANTING DETAILS.
- ALL PLANTING BEDS AND TREE RINGS SHALL HAVE A 4" DEEP TRENCHED BED EDGE CREATED BY EITHER A FLAT LANDSCAPE SPADE OR MECHANICAL EDGER. BED EDGES ARE TO BE CUT CLEAN AND SMOOTH AS SHOWN ON LANDSCAPE PLANS WITH A CLEAN DEFINITION BETWEEN TURF AND PLANTING AREAS.
- ALL TURF SEED AREAS SHALL RECEIVE A MINIMUM OF 6" DEPTH OF TOPSOIL. WITH APPROVAL, EXISTING SOIL MAY BE UTILIZED PROVIDED THE PROPER SOIL AMENDMENTS ARE TILLED THOROUGHLY INTO THE TOP 6" OF SOIL AS INDICATED IN THE SOIL PLACEMENT NOTES. REQUIRED AMENDMENTS SHALL BE DETERMINED BASED ON A SOIL ANALYSIS TO BE PERFORMED. ALL TOPSOIL AMENDMENT SHALL BE AGED WEED FREE MANURE OR CLASS 1 ORGANIC MATTER.
- FOR LAWN SEEDING, APPLY A STARTER FERTILIZER AND SEED UNIFORMLY AT THE RATE RECOMMENDED BY MANUFACTURER, AND PROVIDE A MULCH COVERING THAT IS SUITABLE TO PROMOTE SEED GERMINATION AND TURF ESTABLISHMENT. CONTRACTOR TO PROVIDE FERTILIZER, SEED, AND MULCH SPECIFICATIONS TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. EROSION CONTROL MEASURES ARE TO BE INSTALLED IN THOSE AREAS REQUIRING STABILIZATION (SWALES, SLOPES EXCEEDING 1:3, AND THOSE LOCATIONS INDICATED IN CIVIL DRAWINGS).
- THE CONTRACTOR TO ENSURE A SMOOTH, UNIFORM QUALITY TURF IS ACHIEVED WITH NO BARE SPOTS LARGER THAN 6" X 6". ANY BARE SPOTS LARGER THAN 6" X 6" AT THE END OF ESTABLISHMENT PERIOD SHALL BE RESEED AT THE CONTRACTORS EXPENSE TO OBTAIN A DENSE, UNIFORM LAWN.
- ALL FINISH GRADING AND LAWN AREAS TO BE INSTALLED BY LANDSCAPE CONTRACTOR.
- EXISTING TREES SHOWN TO BE PRESERVED SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PROCESS. SNOW FENCE SHALL BE INSTALLED ACCORDING TO DETAIL 8/L-2. ANY TREE SHOWN TO BE PROTECTED THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY OWNER OR RESPONSIBLE PARTY FOLLOWING CONSTRUCTION.
- ALL DISTURBED AREAS WITHIN THE PROJECT SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
- ALL DISTURBED AREAS OUTSIDE THE LIMITS OF WORK SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, INCLUDING ANY IRRIGATION LINES, PRIOR TO DIGGING. CONSULT DIGGERS HOTLINE.
- THE CONTRACTOR SHALL ENSURE THAT SOIL CONDITIONS AND COMPACTION ARE ADEQUATE TO ALLOW FOR PROPER DRAINAGE AROUND THE CONSTRUCTION SITE. UNDESIRABLE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE PROPER SURFACE AND SUBSURFACE DRAINAGE IN ALL AREAS
- THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, FEES, AND LICENSES NECESSARY FOR THE INSTALLATION OF THIS PLAN.
- THE CONTRACTOR IS TO REVIEW ALL SITE ENGINEERING DOCUMENTS PRIOR TO INSTALLATION. ANY CONFLICTS MUST BE REPORTED TO THE LANDSCAPE ARCHITECT. THESE LANDSCAPE DRAWINGS ARE FOR THE INSTALLATION OF PLANT MATERIALS ONLY UNLESS OTHERWISE STATED.
- THE CONTRACTOR SHALL PROVIDE WATERING AND MAINTENANCE SERVICES FOR A PERIOD OF 60 DAYS TO ENSURE VEGETATIVE ESTABLISHMENT. UPON COMPLETION OF THE PROJECT, CONTRACTOR SHALL SUPPLY THE OWNER IN WRITING WITH ONGOING WATERING AND MAINTENANCE INSTRUCTIONS.
- PLANT MATERIALS SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM TIME OF OWNER ACCEPTANCE. ONLY ONE REPLACEMENT PER PLANT WILL BE REQUIRED DURING THE WARRANTY PERIOD EXCEPT IN THE EVENT OF FAILURE TO COMPLY WITH THE SPECIFIED REQUIREMENTS.

- THE CONTRACTOR IS RESPONSIBLE TO CONDUCT A FINAL WALK THROUGH WITH THE LANDSCAPE ARCHITECT AND OR OWNERS REPRESENTATIVE TO ANSWER QUESTIONS, PROVIDE INSTRUCTIONS, AND ENSURE THAT PROJECT REQUIREMENTS HAVE BEEN MET.
- THE OWNER REQUIRED TO HAVE A LANDSCAPE PERFORMANCE GUARANTEE PER CITY CODE (24.12.070 C-D) INCLUDING: LANDSCAPE MAINTENANCE PROGRAM INCLUDING A STATEMENT THAT ALL DISEASED, DAMAGED, OR DEAD MATERIAL WILL BE REPLACED BY THE END OF THE FOLLOWING SEASON, IN PERPETUITY. APPLICANT SHALL WORK WITH CITY STAFF TO EXECUTE THE REQUIREMENTS AT THE APPROPRIATE TIME.
- NO IRRIGATION SYSTEM IS BEING PROPOSED.

SOIL PLACEMENT NOTES

- LOOSEN SUBGRADE TO A MINIMUM DEPTH INDICATED IN PLANTING NOTES USING A CULTI-MULCHER OR SIMILAR EQUIPMENT, AND REMOVE STONES MEASURING OVER 1-1/2 INCHES IN ANY DIMENSION, STICKS, RUBBISH AND OTHER EXTRANEOUS MATTER. AREAS ADJACENT TO WALKS AND PAVEMENT SHALL BE FREE OF EXCESS STONE AND PAVING MATERIALS SO AS TO PROVIDE AN UNINTERRUPTED CROSS SECTION OF SOIL. INTERNAL PARKING ISLANDS SHALL BE LOOSENED TO A DEPTH OF 30".
- THOROUGHLY BLEND PLANTING SOIL MIX FOR PLANTING BED AREAS. (1 PART EXISTING SOIL, 1 PART TOPSOIL, 1 PART ORGANIC SOIL AMENDMENT, 2.9 POUNDS PER CUBIC YARD OF 4-4-4 ANALYSIS SLOW-RELEASE FERTILIZER)
- TREE AND SHRUB HOLES SHALL BE FILLED WITH A PREPARED PLANTING MIXTURE OF 1 PART TOPSOIL, 2 PARTS PLANTING SOIL MIX.
- SPREAD SOIL AND SOIL AMENDMENTS TO DEPTH INDICATED ON DRAWINGS, BUT NOT LESS THAN REQUIRED TO MEET FINISH GRADES AFTER NATURAL SETTLEMENT. (FINISH GRADE OF PLANTING BEDS SHALL BE 3" BELOW ALL ADJACENT SURFACES. FINISH GRADE OF TURF SEEDING AREAS SHALL BE 1" BELOW ALL ADJACENT HARD SURFACES, WALKS, AND CURBS.)
- PLACE APPROXIMATELY 1/2 OF TOTAL AMOUNT OF SOIL REQUIRED. WORK INTO TOP OF LOOSENED SUBGRADE TO CREATE A TRANSITION LAYER, THEN PLACE REMAINDER OF THE SOIL. SOIL TRANSITION LAYER SHALL BE TILLED TO A MINIMUM DEPTH OF 6" BELOW THE DEPTH OF NEWLY PLACED SOIL. PARKING LOT ISLANDS SHALL BE CROWNED TO A HEIGHT OF 6" TO PROVIDE PROPER DRAINAGE UNLESS OTHERWISE NOTED.
- DO NOT SPREAD IF PLANTING SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET.
- FINISH GRADING: GRADE SOIL TO A SMOOTH, UNIFORM SURFACE PLANE WITH A LOOSE, UNIFORMLY FINE TEXTURE.
- ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES.
- RESTORE PLANTING BEDS IF ERODED OR OTHERWISE DISTURBED AFTER FINISH GRADING AND BEFORE PLANTING.



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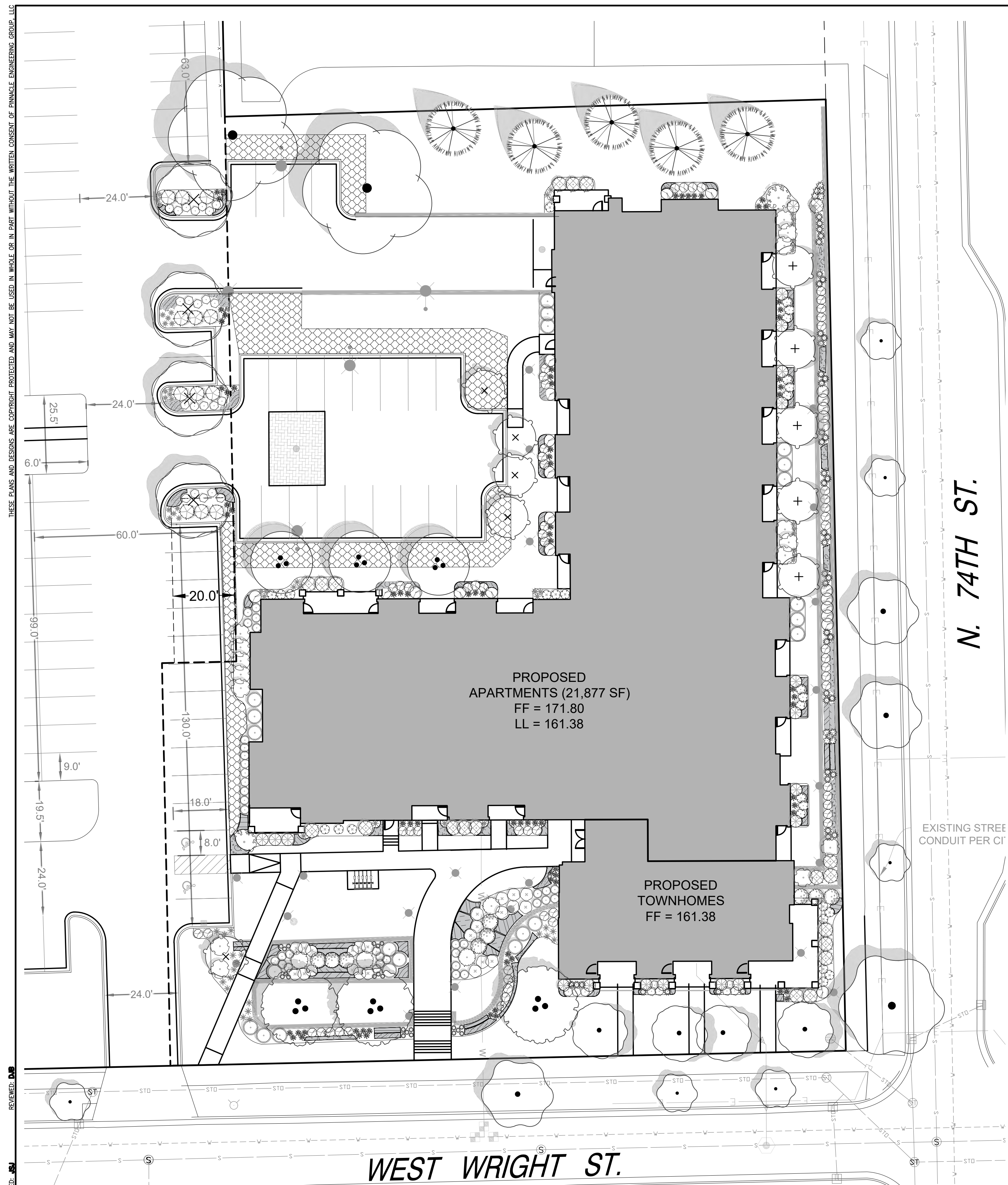
LANDSCAPE GENERAL NOTES & DETAILS

REVISIONS

NO.	DATE	DESCRIPTION

 REG. JOB No. 840.00-WI-AEK
 REG. PM # 7/8/2021
 START DATE VARIATES
 SCALE VARIATES
SHEET L-2 OF L-3
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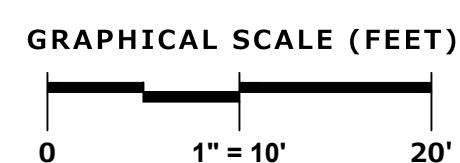
DESIGNED: [initials] CHECKED: [initials] CRAFTED: [initials] REVISIONS: [initials]



SNOW STORAGE EXHIBIT
SCALE: 1"=20'

- SNOW STORAGE LOCATIONS - 2,916 sf
- PARKING LOT PAVED AREAS - (6,966 SF)
- PARKING LOT GREEN SPACE - (800 SF) 11.5%

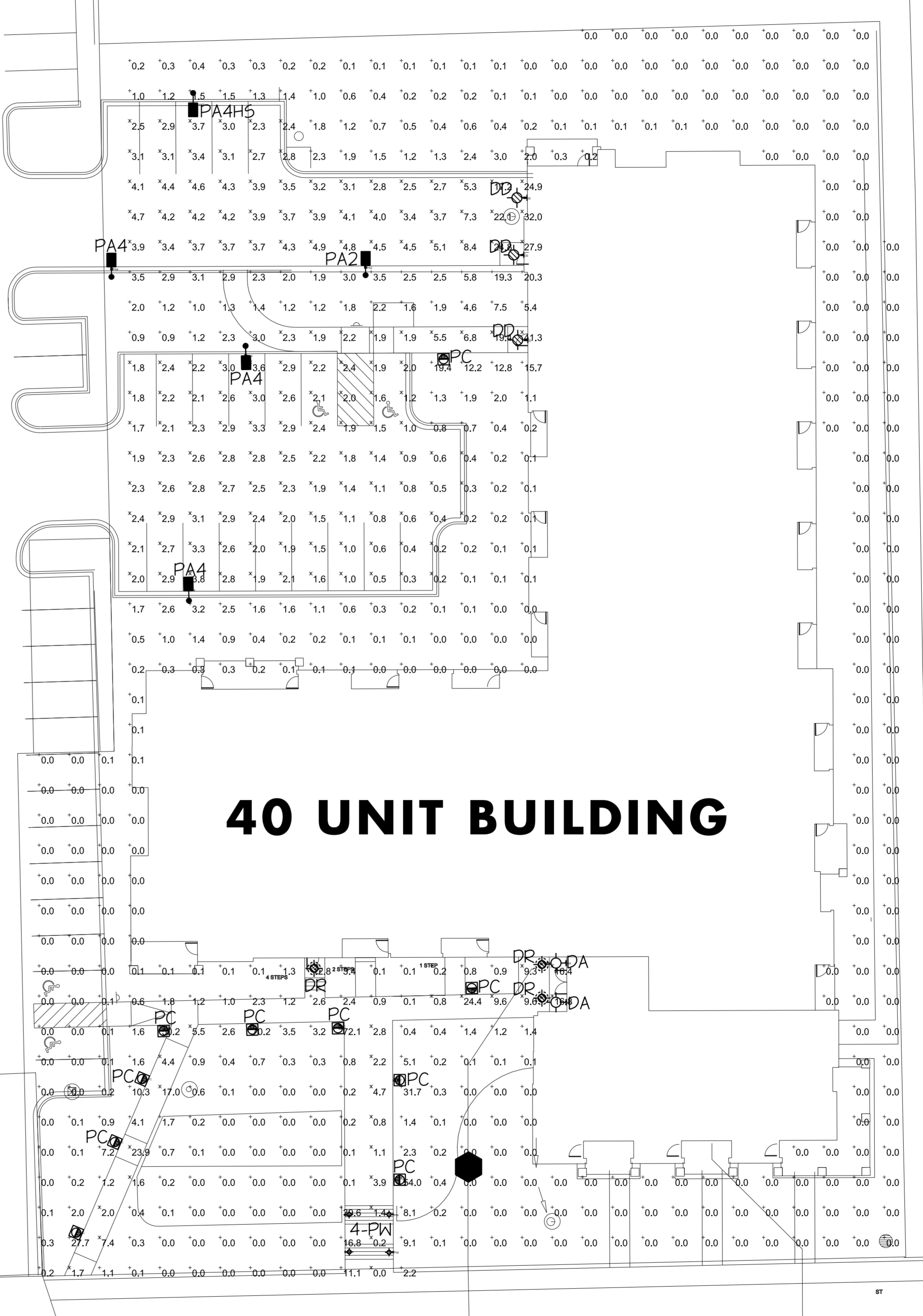
NOTE:
* SNOW SHALL NOT BE PUSHED ONTO INTERIOR LANDSCAPE ISLANDS UNLESS DESIGNED AND IDENTIFIED ON THIS SNOW STORAGE EXHIBIT.



PARKING LOT INTERIOR GREENSPACE EXHIBIT
SCALE: 1"=20'

**EXISTING PIUS X
CHURCH AND
GRADE SCHOOL**

LIGHT FIXTURE SCHEDULE				
Label	Catalog Number	Description	Lamp Lumens	Watts
DA	SFW041409L30ENBP	LED Outdoor LED Wall Lantern	506.2	10
DD	XTOR6B	CROSSTOUR 58W WALL MOUNT LED	6127.51	58
DR	HC615D0010-HM612840-61MDCWF	HALO COMMERCIAL 6" ROUND	1456.87	
PC	SL1-18L4K	SITE LIGHTFORM LED	2510.692	25.9
PW	SLW-15-4K-EM	LED WALL PACK	657	6
PA2	GLEON-SA1D-730-U-T2	GALLEON AREA AND ROADWAY LUMINAIRE (1) 70 CRI	453.7232	67
PA4	GLEON-SA1D-730-U-T4W	GALLEON AREA AND ROADWAY LUMINAIRE (1) 70 CRI	459.4109	67
PA4HS	GLEON-SA1D-730-U-T4W-HSS	GALLEON AREA AND ROADWAY LUMINAIRE (1) 70 CRI, WITH HOUSE SIDE SHIELD	459.4109	67



40 UNIT BUILDING

- PA SITE AREA LIGHTING - FIXTURE TYPE 'PA' SINGLE HEAD ON A SINGLE 16' HIGH STRAIGHT ALUMINUM POLE W/ CONCRETE BASE
PA2 - TYPE II OPTICS, PA3 - TYPE III OPTICS
PA4 - TYPE IV OPTICS, PA5 - TYPE V OPTICS
- PC SITE BOLLARD EGRESS LIGHTING - 42" HIGH NO VISIBLE LED LAMPING, PATHWAY SPREAD OPTIC W/ EMERGENCY BATTERY BACKUP W/ CONCRETE BASE
- PW WALL SURFACE MOUNTED EGRESS LIGHTING 42" HIGH ALUMINUM BOLLARD, NO VISIBLE LED LAMPING PHOTO-CELL ON / OFF CONTROL
- DA WALL SURFACE MOUNTED DECO ENTRY, ADA COMPLIANT PHOTO-CELL ON / OFF CONTROL C.L. LOCATE AT 66" A.F.F.
- DD WALL SURFACE MOUNTED AREA FLOOD/EGRESS LIGHTING COMPLETE CUTOFF FORWARD OPTICS EMERGENCY BATTERY PACK, PHOTO-CELL ON / OFF CONTROL MOUNT AT 8'-6" ABOVE FINISH GRADE
- DR 6" DIA. RECESSED SHALLOW DOWNLIGHT W/ EMERGENCY BATTERY PACK WIDE OPTICS, BLACK BAFFLE REFLECTOR, NET LABEL, 1500 LUMENS PHOTO-CELL ON/OFF CONTROL INCLUDED TO CO-ORDONATE WITH EMER. BAT.
- SIGHT MONUMENT SIGN
INTERNAL LIGHTING
DESIGN AND POWER REQUIREMENTS BY SIGN CONTRACTOR
E.C. TO PROVIDE 3/4" UNDERGROUND CONDUIT AND WP/ J-BOW A.F.G.
PHOTO-CELL ON/OFF CONTROL

Overall	Average	2.2 fc		
	Maximum	72.1 fc		
	Minimum	0.0 fc		
	Max/Min	N/A		
	Average/Min	N/A		
Parking North	Average	6.2 fc	Walkway - Center	Average
	Maximum	32.0 fc		9.2 fc
	Minimum	2.3 fc		41.3 fc
	Max/Min	13.9:1		1.9 fc
	Average/Min	2.7:1		Max/Min
				21.7:1
				Average/Min
				4.8:1
Parking South	Average	1.9 fc	Walkway - South	Average
	Maximum	3.8 fc		7.0 fc
	Minimum	0.2 fc		24.4 fc
	Max/Min	19.0:1		Minimum
	Average/Min	9.5:1		0.0 fc
				Max/Min
				N/A
				Average/Min
				N/A

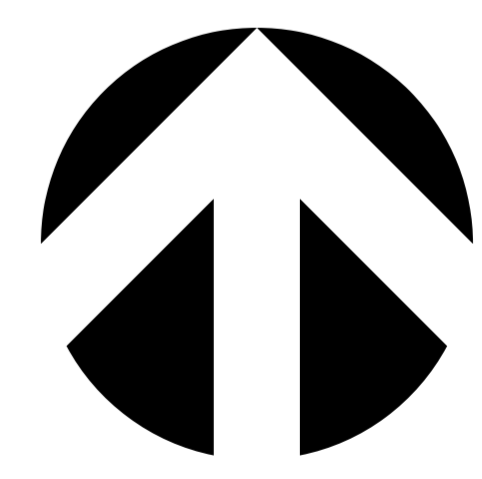
N. 74TH STREET

W. WRIGHT STREET

WEST WRIGHT ST.

1" = 20.00' SITE LIGHTING PHOTOMETRICS PLAN

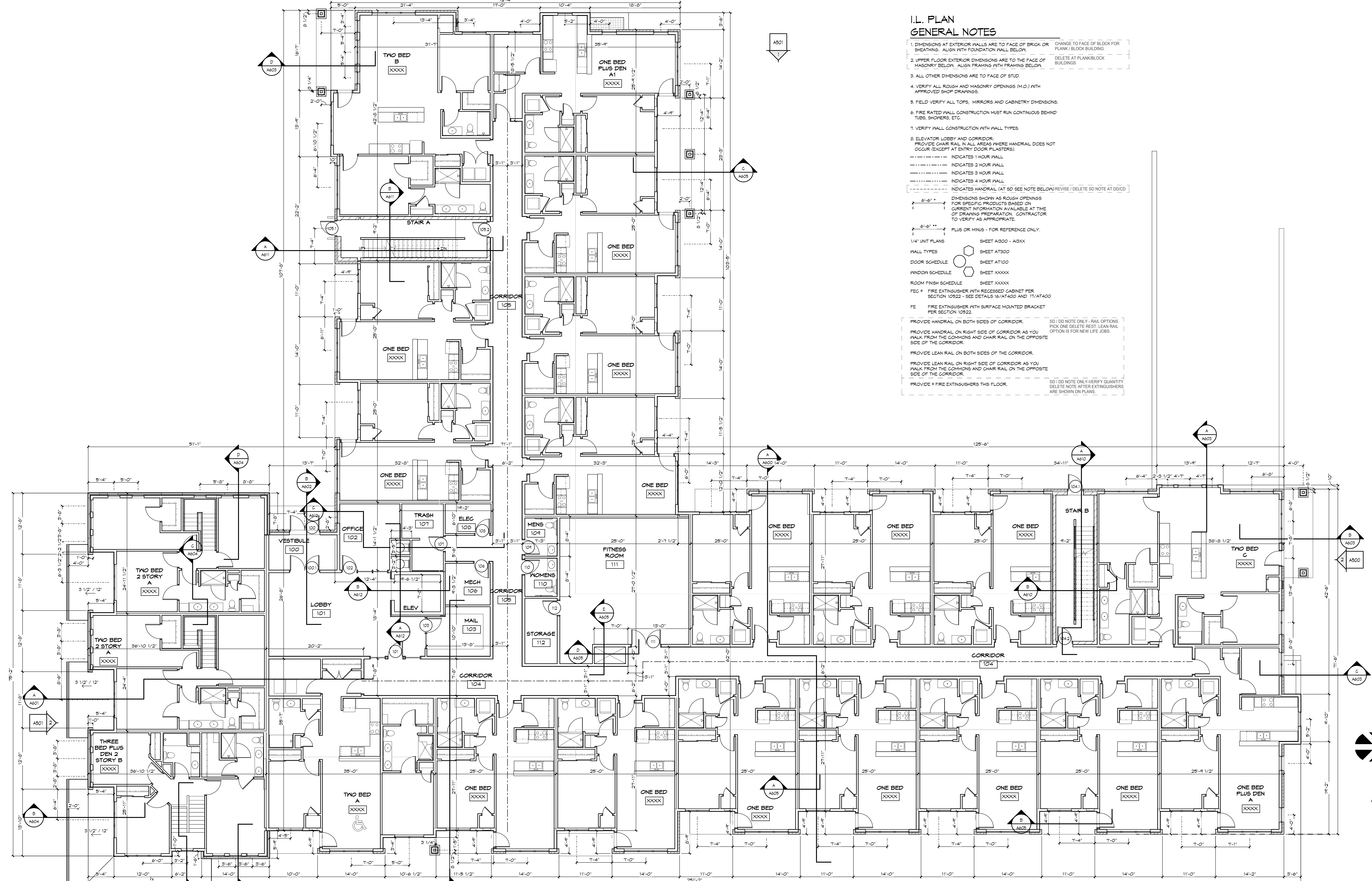
Le Bon Vivant
Wauwatosa, Wisconsin



04 Nov 2020

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I.L. PLAN
GENERAL NOTES

- DIMENSIONS AT EXTERIOR WALLS ARE TO FACE OF BRICK OR SHEATHING. ALIGN WITH FOUNDATION WALL BELOW.
- UPPER FLOOR EXTERIOR DIMENSIONS ARE TO THE FACE OF MASONRY BELOW. ALIGN FRAMING WITH FRAMING BELOW.
- ALL OTHER DIMENSIONS ARE TO FACE OF STUD.
- VERIFY ALL ROUGH AND MASONRY OPENINGS (M.O.) WITH APPROVED SHOP DRAWINGS.
- FIELD VERIFY ALL TOPS, MIRRORS AND CABINETS DIMENSIONS.
- FIRE RATED WALL CONSTRUCTION MUST RUN CONTINUOUS BEHIND TUBS, SHOWERS, ETC.
- VERIFY WALL CONSTRUCTION WITH WALL TYPES.
- ELEVATOR LOBBY AND CORRIDOR: PROVIDE CHAIR RAIL IN ALL AREAS WHERE HANDRAIL DOES NOT OCCUR (EXCEPT AT ENTRY DOOR FILASTERS).

- - - - - INDICATES 1 HOUR WALL
 - - - - - INDICATES 2 HOUR WALL
 - - - - - INDICATES 3 HOUR WALL
 - - - - - INDICATES 4 HOUR WALL
 - - - - - INDICATES HANDRAIL (AT SD SEE NOTE BELOW) REVISE / DELETE SD NOTE AT DD/CD

6'-6" * DIMENSIONS SHOWN AS ROUGH OPENINGS FOR SPECIFIC PRODUCTS BASED ON CURRENT INFORMATION AVAILABLE AT TIME OF DRAWING PREPARATION. CONTRACTOR TO VERIFY AS APPROPRIATE.
 6'-6" ** PLUS OR MINUS - FOR REFERENCE ONLY.

1/4" UNIT PLANS SHEET A800 - A18XX
 WALL TYPES SHEET AT300
 DOOR SCHEDULE SHEET AT100
 WINDOW SCHEDULE SHEET XXXXX
 ROOM FINISH SCHEDULE SHEET XXXXX
 FEG # FIRE EXTINGUISHER WITH RECESSED CABINET PER SECTION 10522 - SEE DETAILS 16/AT400 AND 17/AT400
 FE FIRE EXTINGUISHER WITH SURFACE MOUNTED BRACKET PER SECTION 10522.

PROVIDE HANDRAIL ON BOTH SIDES OF CORRIDOR.
 PROVIDE LEAN RAIL ON BOTH SIDES OF CORRIDOR.
 PROVIDE # FIRE EXTINGUISHERS THIS FLOOR.

SD / DD NOTE ONLY - RAIL OPTIONS. PICK ONE DELETE REST. LEAN RAIL OPTION IS FOR NEW LIFE JOBS.
 SD / DD NOTE ONLY - VERIFY QUANTITY. DELETE NOTE AFTER EXTINGUISHERS ARE SHOWN ON PLANS.

Le Bon Vivant
 41 Unit Apartment Building
 Wauwatosa
 Wisconsin

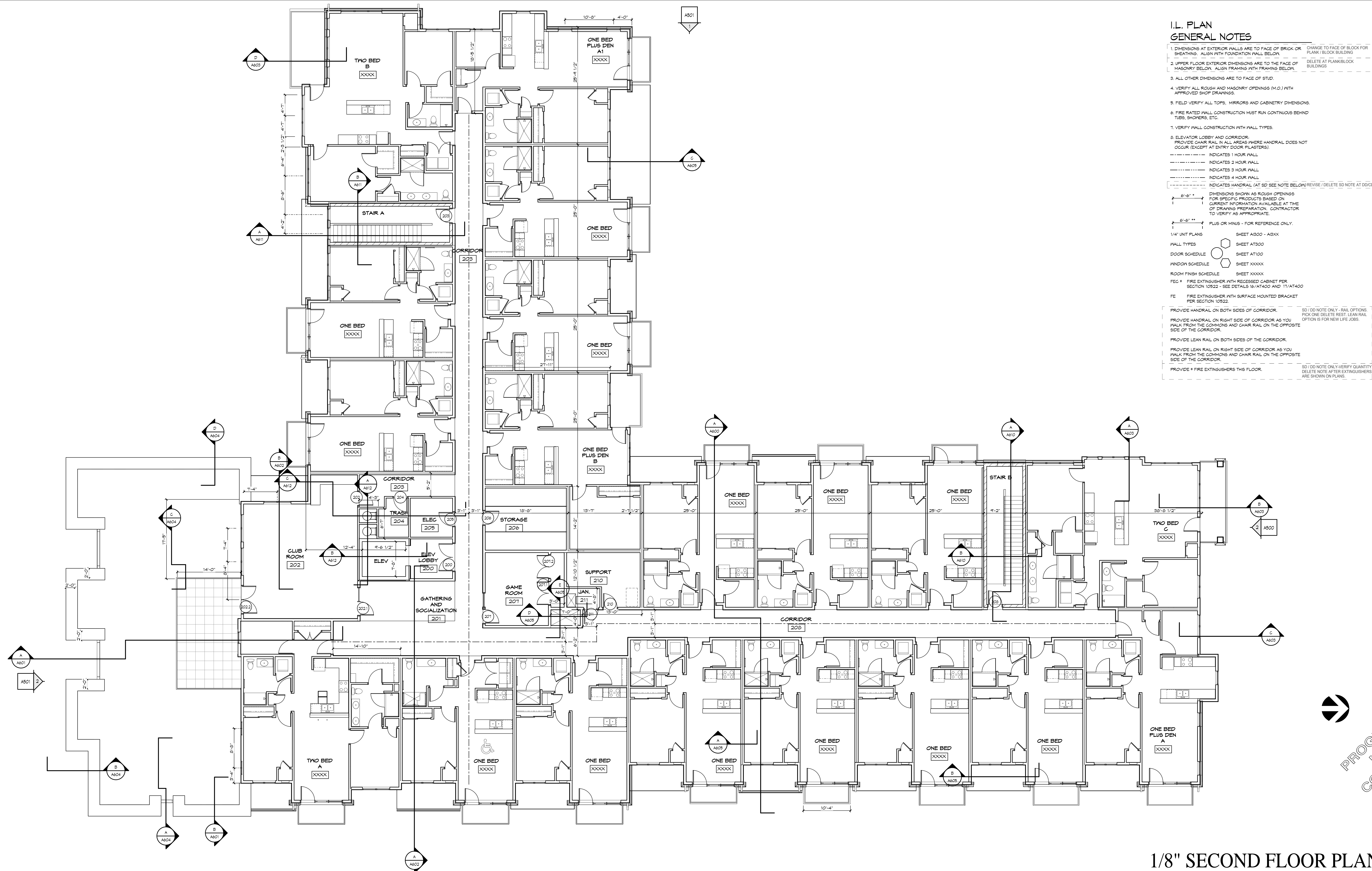


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1/8" FIRST FLOOR PLAN **A211**
 INDEPENDENT



**I.L. PLAN
GENERAL NOTES**

- DIMENSIONS AT EXTERIOR WALLS ARE TO FACE OF BRICK OR SHEATHING. ALIGN WITH FOUNDATION WALL BELOW. CHANGE TO FACE OF BLOCK FOR PLANK / BLOCK BUILDING.
- UPPER FLOOR EXTERIOR DIMENSIONS ARE TO THE FACE OF MASONRY BELOW. ALIGN FRAMING WITH FRAMING BELOW. DELETE AT PLANK/BLOCK BUILDINGS.
- ALL OTHER DIMENSIONS ARE TO FACE OF STUD.
- VERIFY ALL ROUGH AND MASONRY OPENINGS (M.O.) WITH APPROVED SHOP DRAWINGS.
- FIELD VERIFY ALL TOPS, MIRRORS AND CABINETS DIMENSIONS.
- FIRE RATED WALL CONSTRUCTION MUST RUN CONTINUOUS BEHIND TUBS, SHOWERS, ETC.
- VERIFY WALL CONSTRUCTION WITH WALL TYPES.
- ELEVATOR LOBBY AND CORRIDOR: PROVIDE CHAIR RAIL IN ALL AREAS (WHERE HANDRAIL DOES NOT OCCUR (EXCEPT AT ENTRY DOOR PLASTERS)).
- INDICATES 1 HOUR WALL
- INDICATES 2 HOUR WALL
- INDICATES 3 HOUR WALL
- INDICATES 4 HOUR WALL
- INDICATES HANDRAIL (AT SD SEE NOTE BELOW) REVISE / DELETE SD NOTE AT 00/00
- DIMENSIONS SHOWN AS ROUGH OPENINGS FOR SPECIFIC PRODUCTS BASED ON CURRENT INFORMATION AVAILABLE AT TIME OF DRAWING PREPARATION. CONTRACTOR TO VERIFY AS APPROPRIATE.
- PLUS OR MINUS - FOR REFERENCE ONLY.
- 1/4" UNIT PLANS SHEET A300 - A3XX
- WALL TYPES SHEET A300
- DOOR SCHEDULE SHEET A100
- WINDOW SCHEDULE SHEET XXXX
- ROOM FINISH SCHEDULE SHEET XXXX
- FE # FIRE EXTINGUISHER WITH RECESSED CABINET PER SECTION 10922 - SEE DETAILS 16/AT400 AND 11/AT400
- FE FIRE EXTINGUISHER WITH SURFACE MOUNTED BRACKET PER SECTION 10922.
- PROVIDE HANDRAIL ON BOTH SIDES OF CORRIDOR. SD / DO NOTE ONLY - RAIL OPTIONS. PICK ONE DELETE REST. LEAN RAIL OPTION IS FOR NEW LIFE JOBS.
- PROVIDE HANDRAIL ON RIGHT SIDE OF CORRIDOR AS YOU WALK FROM THE COMMONS AND CHAIR RAIL ON THE OPPOSITE SIDE OF THE CORRIDOR.
- PROVIDE LEAN RAIL ON BOTH SIDES OF THE CORRIDOR.
- PROVIDE LEAN RAIL ON RIGHT SIDE OF CORRIDOR AS YOU WALK FROM THE COMMONS AND CHAIR RAIL ON THE OPPOSITE SIDE OF THE CORRIDOR.
- PROVIDE # FIRE EXTINGUISHERS THIS FLOOR. SD / DO NOTE ONLY - VERIFY QUANTITY. DELETE NOTE AFTER EXTINGUISHERS ARE SHOWN ON PLANS.

Le Bon Vivant
41 Unit Apartment Building
Wauwatosa Wisconsin



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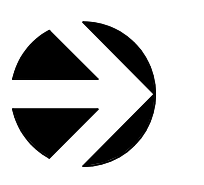
1/8" SECOND FLOOR PLAN A212
INDEPENDENT

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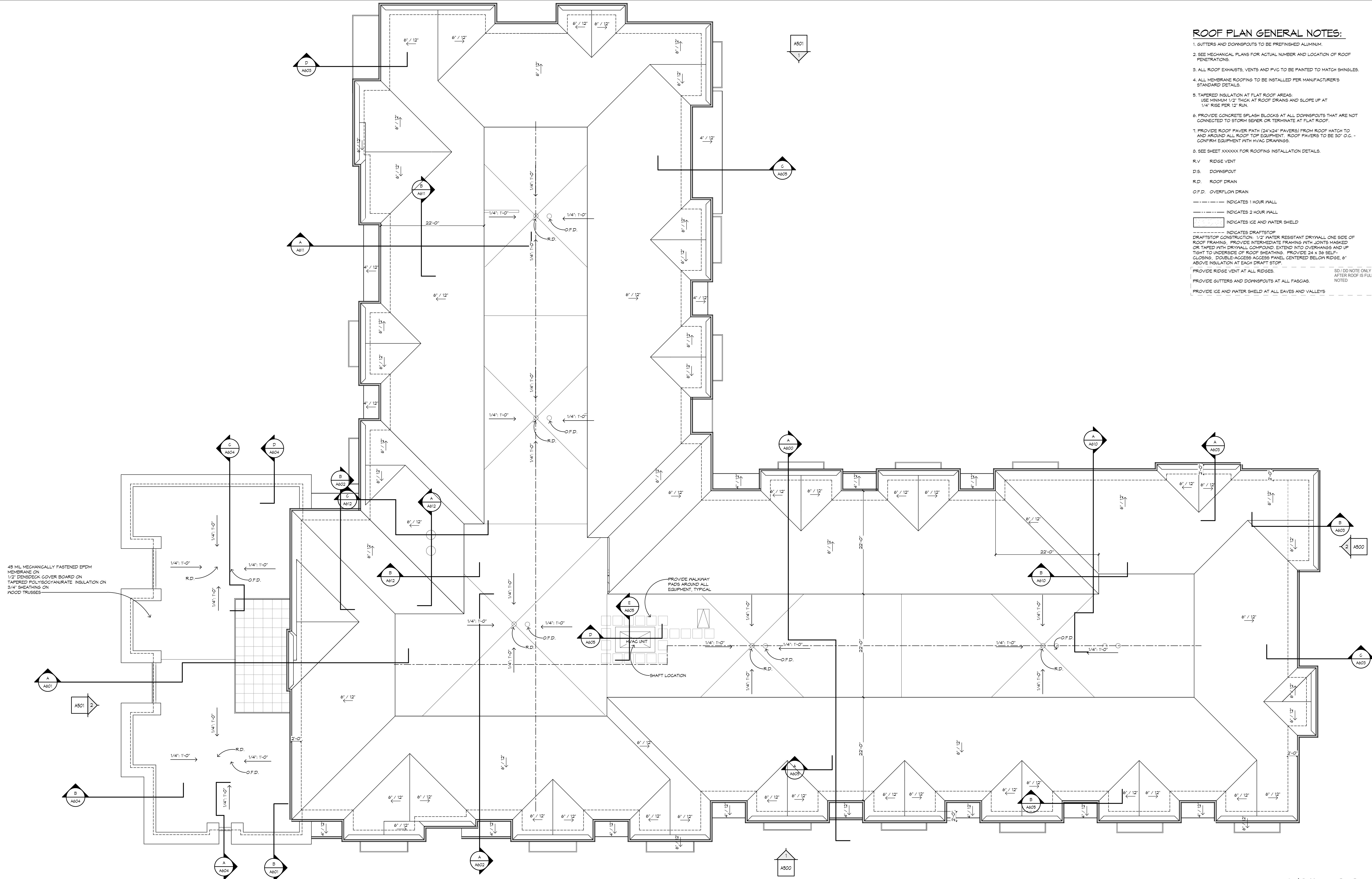
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DATE 26 JULY 2021
 PROJECT 201101
 SHEET NO.

ROOF PLAN GENERAL NOTES:

1. GUTTERS AND DOWNSPOUTS TO BE PREFINISHED ALUMINUM.
 2. SEE MECHANICAL PLANS FOR ACTUAL NUMBER AND LOCATION OF ROOF PENETRATIONS.
 3. ALL ROOF EXHAUSTS, VENTS AND PVG TO BE PAINTED TO MATCH SHINGLES.
 4. ALL MEMBRANE ROOFING TO BE INSTALLED PER MANUFACTURER'S STANDARD DETAILS.
 5. TAPERED INSULATION AT FLAT ROOF AREAS:
 USE MINIMUM 1/2" THICK AT ROOF DRAINS AND SLOPE UP AT 1/4" RISE PER 12" RUN.
 6. PROVIDE CONCRETE SPLASH BLOCKS AT ALL DOWNSPOUTS THAT ARE NOT CONNECTED TO STORM SEWER OR TERMINATE AT FLAT ROOF.
 7. PROVIDE ROOF PAVER PATH (24"x24" PAVERS) FROM ROOF HATCH TO AND AROUND ALL ROOF TOP EQUIPMENT. ROOF PAVERS TO BE 30" O.C. - CONFIRM EQUIPMENT WITH HVAC DRAWINGS.
 8. SEE SHEET XXXXXX FOR ROOFING INSTALLATION DETAILS.
- R.V. RIDGE VENT
 D.S. DOWNSPOUT
 R.D. ROOF DRAIN
 O.F.D. OVERFLOW DRAIN
- INDICATES 1 HOUR WALL
 - - - INDICATES 2 HOUR WALL
 [Hatched Box] INDICATES ICE AND WATER SHIELD
 [Dashed Box] INDICATES DRAFTSTOP
 DRAFTSTOP CONSTRUCTION: 1/2" WATER RESISTANT DRYWALL ONE SIDE OF ROOF FRAMING, PROVIDE INTERMEDIATE FRAMING WITH JOINTS MASKED OR TAPED WITH DRYWALL COMPOUND. EXTEND INTO OVERHANGS AND UP TIGHT TO UNDERSIDE OF ROOF SHEATHING. PROVIDE 24 X 36 SELF-CLOSING, DOUBLE-ACCESS ACCESS PANEL CENTERED BELOW RIDGE, 6" ABOVE INSULATION AT EACH DRAFT STOP.
- PROVIDE RIDGE VENT AT ALL RIDGES.
 PROVIDE GUTTERS AND DOWNSPOUTS AT ALL FASCIAS.
 PROVIDE ICE AND WATER SHIELD AT ALL EAVES AND VALLEYS.
- SD/ DO NOTE ONLY - DELETE NOTES AFTER ROOF IS FULLY DRAWN AND NOTED





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INDEPENDENT LIVING UNIT INTERIOR ELEVATION GENERAL NOTES:

- FIELD VERIFY ALL TOPS, MIRRORS AND CABINETRY DIMENSIONS.
- FRAMED MIRROR SIZE SHOWN DOES NOT INCLUDE FRAME.
- COUNTERTOP AND UPPER CABINET HEIGHTS AS SHOWN IN INTERIOR ELEVATIONS ARE BASED ON FINISHED FLOOR. INSTALL CASEWORK WITH BLOCKING PER SPEC SECTION 12356 TO MAINTAIN INDICATED HEIGHTS IN AREAS WITH CERAMIC TILE, WOOD OR SIMILAR FLOORING.
- CONTINUE FLOOR MATERIALS INTO ALL APPLIANCE SPACES.
- PROVIDE FINISHED END PANELS AT ALL EXPOSED CABINET ENDS INCLUDING NEXT TO APPLIANCES.
- PROVIDE SILICONE SEALANT AT FULL PERIMETER OF TOILET, SHOWER/TUB AT FLOOR ONLY - TYPICAL.
- PROVIDE CAULK BETWEEN SPLASHES AND WALLS.
- PROVIDE BASE SHOE AT ALL BASE (MATCH COLOR) AND CABINETRY (BY CABINET MANUFACTURER) WITH VINYL, WOOD OR CERAMIC FLOORING.
- ALL COUNTERTOPS, SPLASHES AND CABINETS TO BE SCRIBED TO FLOOR, CEILING AND WALL.
- PROVIDE BASE BEHIND REFRIGERATOR AND RANGE.
- SEE SHEET AT400 FOR TRIM PROFILES.
- RETURN VALANCES AND CROWN MOULDING TO WALL (TYPICAL OF ALL).
- EMERGENCY CALL PULL CORDS TO BE TRIMMED SO BOTTOM OF CORD IS 4" ABOVE THE FLOOR.
- ALL DISTRIBUTION PANELS TO BE POWDER PAINTED PER 0912.

UNIT PLANS GENERAL NOTES

- DIMENSIONS AT EXTERIOR WALLS ARE TO FACE OF BRICK OR SHEATHING. ALIGN WITH FOUNDATION WALL BELOW. CHANGE TO FACE OF BLOCK FLANK / BLOCK BUILDING
- UNIT DIMENS WALL DIMENSIONS ARE TO CENTER OF MALL.
- ALL OTHER DIMENSIONS ARE TO FACE OF STUD.
- VERIFY ALL ROUGH AND MASONRY OPENINGS (M.O.) WITH APPROVED SHOP DRAWINGS.
- FIELD VERIFY ALL TOPS, MIRRORS AND CABINETRY DIMENSIONS.
- COORDINATE STUD LOCATION WITH ELECTRICAL AND MECHANICAL CONTRACTORS TO ALLOW FOR WASHING MACHINE OUTLET BOXES, BATH EXHAUST, DRYER VENTS, ELECTRICAL PANELS, RECESSED MEDICINE CABINETS, ETC.
- AT ALL CONCEALED SPACES THE FIRE RATED MALL, CEILING, FLOOR AND ROOF ASSEMBLY IS TO BE CONTINUOUS THROUGHOUT THE CONCEALED SPACE. SEE DETAIL 15/AT401.
- THE FIRE RATED FLOOR/CEILING AND WALL ASSEMBLIES ARE TO BE CONTINUOUS ABOVE DROPPED CEILING AND SOFFITS.
- THE UNDERLAYMENT AND SOUND MAT OF THE FIRE RATED FLOOR ASSEMBLY IS TO BE INSTALLED PRIOR TO THE TUB/SHOWER UNIT ENCLOSURE BEING INSTALLED.
- FIRE RATED MALL CONSTRUCTION MUST RUN CONTINUOUS BEHIND TUBS, SHOWERS, ETC. REFER TO DETAIL 5/AT401.
- PROVIDE SILICONE SEALANT AT FULL PERIMETER OF TOILET, SHOWER/TUB AT FLOOR ONLY - TYPICAL.
- PROVIDE CAULK BETWEEN SPLASHES AND WALLS.
- PROVIDE BASE SHOE AT ALL BASE (MATCH COLOR) AND CABINETRY (BY CABINET MANUFACTURER) WITH VINYL, WOOD OR CERAMIC FLOORING.
- VERIFY MALL CONSTRUCTION WITH MALL TYPE.
- ALL DISTRIBUTION PANELS TO BE POWDER PAINTED PER 0912.
- SOFFITS THAT ARE NOT SHOWN TO ALIGN WITH ENDS OF WALLS TO BE ONLY AS NOTED AS REQUIRED TO CONCEAL DUCT.

6'-6" * DIMENSIONS SHOWN AS ROUGH OPENINGS FOR SPECIFIC PRODUCTS BASED ON CURRENT INFORMATION AVAILABLE AT THE TIME OF DRAWING PREPARATION. CONTRACTOR TO VERIFY AS APPROPRIATE.

6'-6" ** PLUS OR MINUS - FOR REFERENCE ONLY.

WALL TYPES: SHEET A1300
DOOR SCHEDULE: SHEET A100 (I,L) AND A102 (A,L)
WINDOW SCHEDULE: SHEET X
ROOM FINISH SCHEDULE: SHEET X

INDICATES DROPPED CEILING/SOFFIT TO X-X'

DOORS - UNITS: SD / DD NOTE ONLY - REVISE DOOR STYLES AS REQUIRED. DELETE WHEN DOOR SCHEDULE IS COMPLETE.

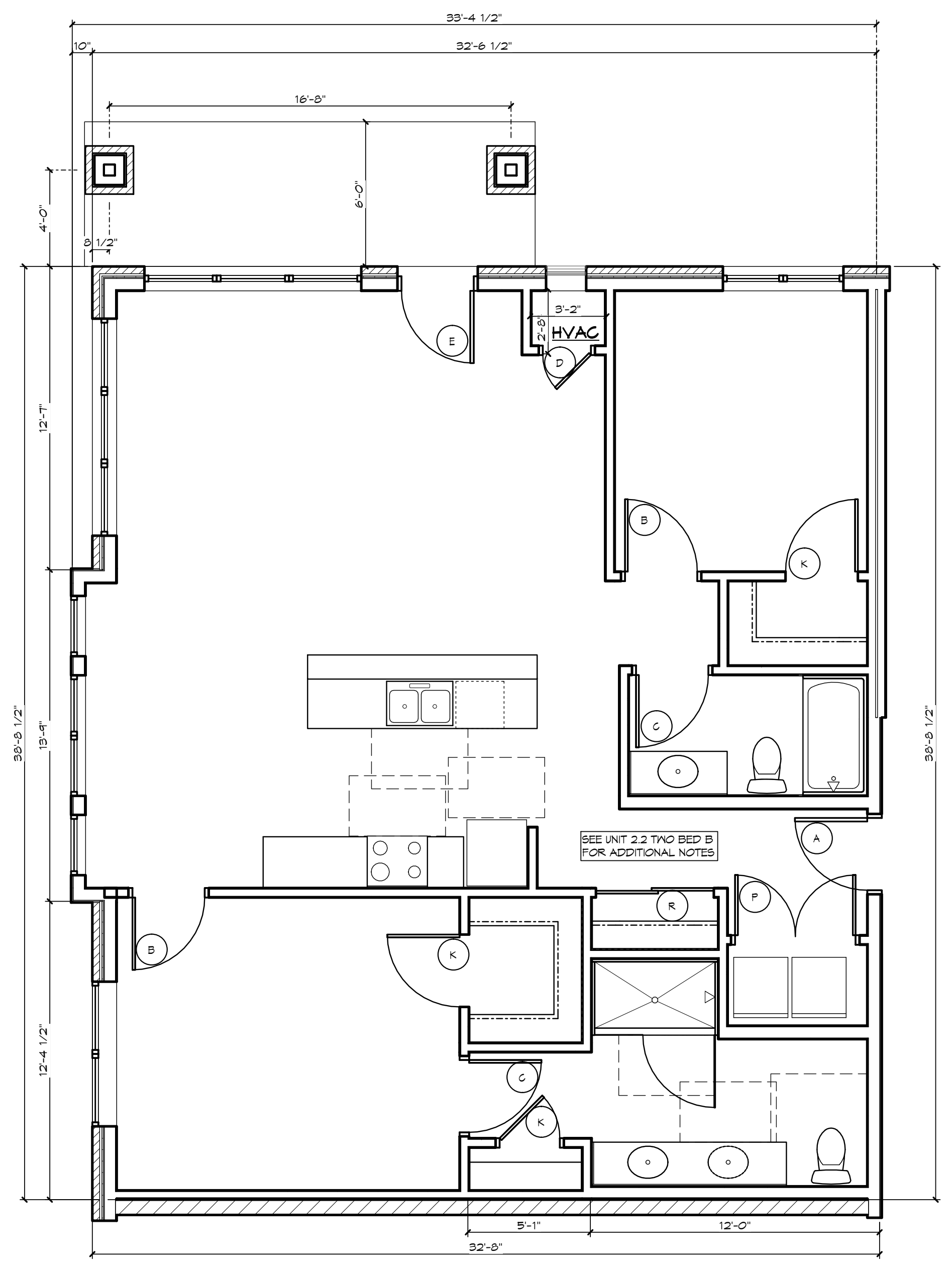
SWING DOOR - ENTRY: 3'-0" x 6'-8" x 1-3/4" THREE PANEL "WINSLOW" 20 MINUTE DOOR (BOTTOM RAIL 10" HIGH) IN FIRE-RATED WOOD FRAME (FIRE-RATED WOOD FRAME PER SECTION 06402)

SWING DOOR - TYPICAL: 3'-0" x 6'-8" x 1-3/8" THREE PANEL "WINSLOW" HOLLOW CORE PREHUNG DOOR IN WOOD FRAME

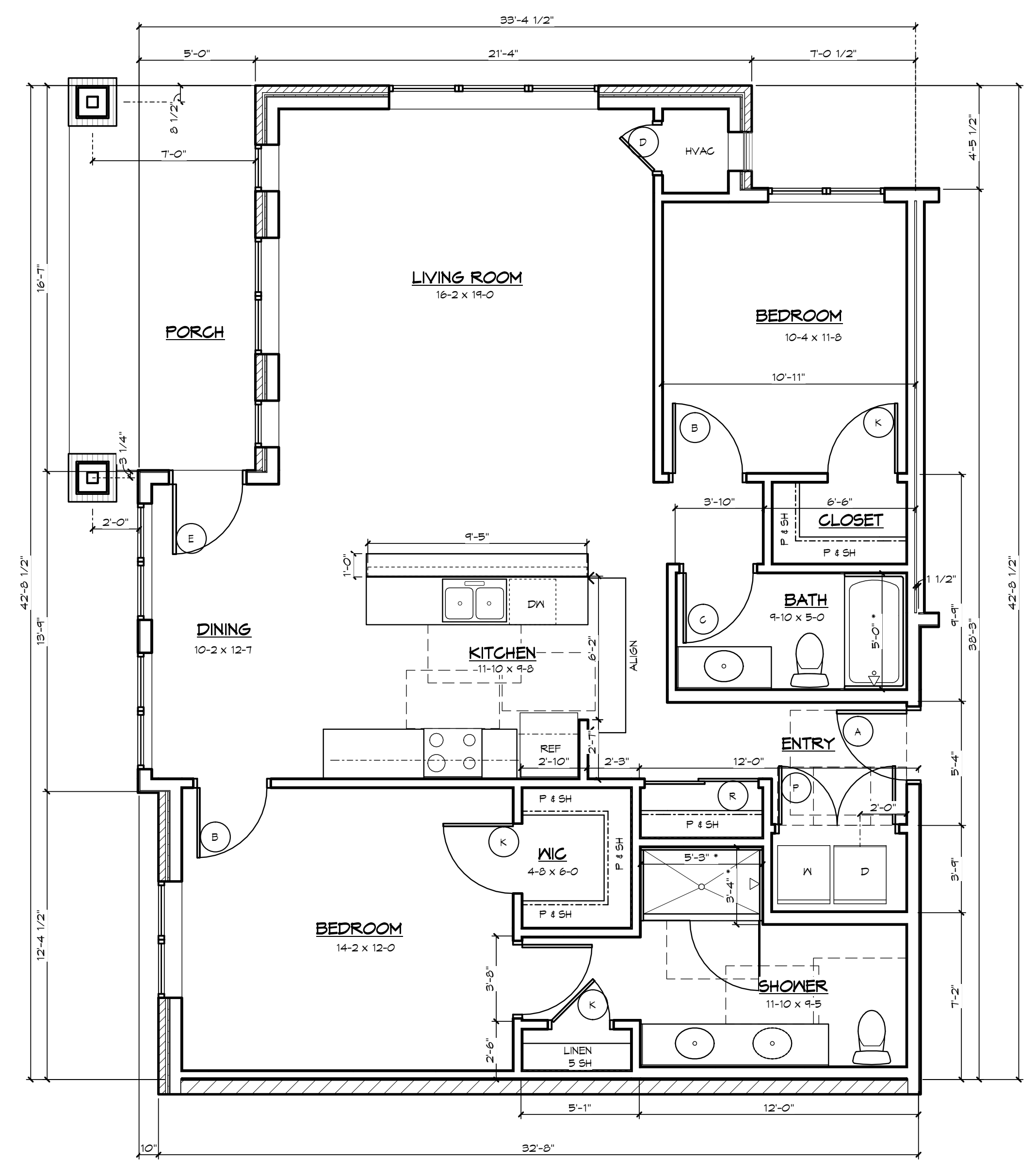
POCKET DOOR: 3'-0" x 6'-8" x 1-3/8" THREE PANEL "WINSLOW" HOLLOW CORE IN POCKET DOOR FRAME

SLIDE BY AND BI-FOLD DOOR: WIDTH AS SHOWN x 6'-8" x 1-3/8" THREE PANEL "WINSLOW" HOLLOW CORE IN DRYWALL OPENING

PATIO/BALCONY AND FRENCH DOOR: WIDTH AS SHOWN x 6'-8" x 1-3/4" FULL LITE PREHUNG (WITH INTEGRAL BLINDS) IN METAL-CLAD WOOD FRAME



2.2 TWO BED C
AREA = 1268 SF
UNIT SHOWN, SEE OVERALL PLANS FOR SIMILAR/OPOSITE UNITS



2.2 TWO BED B
AREA = 1275 SF
UNIT SHOWN, SEE OVERALL PLANS FOR SIMILAR/OPOSITE UNITS

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DATE: 26 JULY 2021
PROJECT: 201101
SHEET NO.

INDEPENDENT LIVING UNIT INTERIOR ELEVATION GENERAL NOTES:

1. FIELD VERIFY ALL TOPS, MIRRORS AND CABINERY DIMENSIONS.
2. FRAMED MIRROR SIZE SHOWN DOES NOT INCLUDE FRAME.
3. COUNTERTOP AND UPPER CABINET HEIGHTS AS SHOWN IN INTERIOR ELEVATIONS ARE BASED ON FINISHED FLOOR. INSTALL CASEWORK WITH BLOCKING PER SPEC SECTION 12356 TO MAINTAIN INDICATED HEIGHTS IN AREAS WITH CERAMIC TILE, WOOD OR SIMILAR FLOORINGS.
4. CONTINUE FLOOR MATERIALS INTO ALL APPLIANCE SPACES.
5. PROVIDE FINISHED END PANELS AT ALL EXPOSED CABINET ENDS INCLUDING NEXT TO APPLIANCES.
6. PROVIDE SILICONE SEALANT AT FULL PERIMETER OF TOILET, SHOWER/TUB AT FLOOR ONLY - TYPICAL.
7. PROVIDE CAULK BETWEEN SPLASHES AND WALLS.
8. PROVIDE BASE SHOE AT ALL BASE (MATCH COLOR) AND CABINERY (BY CABINET MANUFACTURER) WITH VINYL, WOOD OR CERAMIC FLOORING.
9. ALL COUNTERTOPS, SPLASHES AND CABINETS TO BE SCRUBED TO FLOOR, CEILING AND WALL.
10. PROVIDE BASE BEHIND REFRIGERATOR AND RANGE.
11. SEE SHEET AT400 FOR TRIM PROFILES.
12. RETURN VALANCES AND CROWN MOULDING TO WALL (TYPICAL OF ALL).
13. EMERGENCY CALL FULL CORDS TO BE TRIMMED SO BOTTOM OF CORD IS 4" ABOVE THE FLOOR.
14. ALL DISTRIBUTION PANELS TO BE POWDER PAINTED PER 09112.

UNIT PLANS GENERAL NOTES

1. DIMENSIONS AT EXTERIOR WALLS ARE TO FACE OF BRICK OR SHEATHING. ALIGN WITH FOUNDATION WALL BELOW. CHANGE TO FACE OF BLC PLANK / BLOCK BUILDING
2. UNIT DIMENSING WALL DIMENSIONS ARE TO CENTER OF WALL.
3. ALL OTHER DIMENSIONS ARE TO FACE OF STUD.
4. VERIFY ALL ROUGH AND MASONRY OPENINGS (M.O.) WITH APPROVED SHOP DRAWINGS.
5. FIELD VERIFY ALL TOPS, MIRRORS AND CABINERY DIMENSIONS.
6. COORDINATE STUD LOCATION WITH ELECTRICAL AND MECHANICAL CONTRACTORS TO ALLOW FOR WASHING MACHINE OUTLET BOXES, BATH EXHAUST, DRYER VENTS, ELECTRICAL PANELS, RECESSED MEDICINE CABINETS, ETC.
7. AT ALL CONCEALED SPACES THE FIRE RATED WALL, CEILING, FLOOR AND ROOF ASSEMBLY IS TO BE CONTINUOUS THROUGHOUT THE CONCEALED SPACE. SEE DETAIL 15/AT401.
8. THE FIRE RATED FLOOR/CEILING AND WALL ASSEMBLIES ARE TO BE CONTINUOUS ABOVE DROPPED CEILING AND SOFFITS.
9. THE UNDERLAYMENT AND SOUND MAT OF THE FIRE RATED FLOOR ASSEMBLY IS TO BE INSTALLED PRIOR TO THE TUB/SHOWER UNIT ENCLOSURE BEING INSTALLED.
10. FIRE RATED WALL CONSTRUCTION MUST RUN CONTINUOUS BEHIND TUBS, SHOWERS, ETC. REFER TO DETAIL 5/AT401.
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14. VERIFY WALL CONSTRUCTION WITH WALL TYPE.
15. ALL DISTRIBUTION PANELS TO BE POWDER PAINTED PER 09112.
16. SOFFITS THAT ARE NOT SHOWN TO ALIGN WITH ENDS OF WALLS TO BE ONLY AS WIDE AS REQUIRED TO CONCEAL DUCT.

DIMENSIONS SHOWN AS ROUGH OPENINGS FOR SPECIFIC PRODUCTS BASED ON CURRENT INFORMATION AVAILABLE AT TIME OF DRAWING PREPARATION. CONTRACTOR TO VERIFY AS APPROPRIATE.

6'-6" ** PLUS OR MINUS - FOR REFERENCE ONLY.

WALL TYPES: SHEET AT300
DOOR SCHEDULE: SHEET AT100 (I.L.) AND AT102 (A.L.)
WINDOW SCHEDULE: SHEET X
ROOM FINISH SCHEDULE: SHEET X

INDICATES DROPPED CEILING/SOFFIT TO X-X

DOORS - UNITS: SD / (DO NOTE ONLY - REVISE DOOR STYLES AS REQUIRED. DELETE WHEN DOOR SCHEDULE IS COMPLETE)

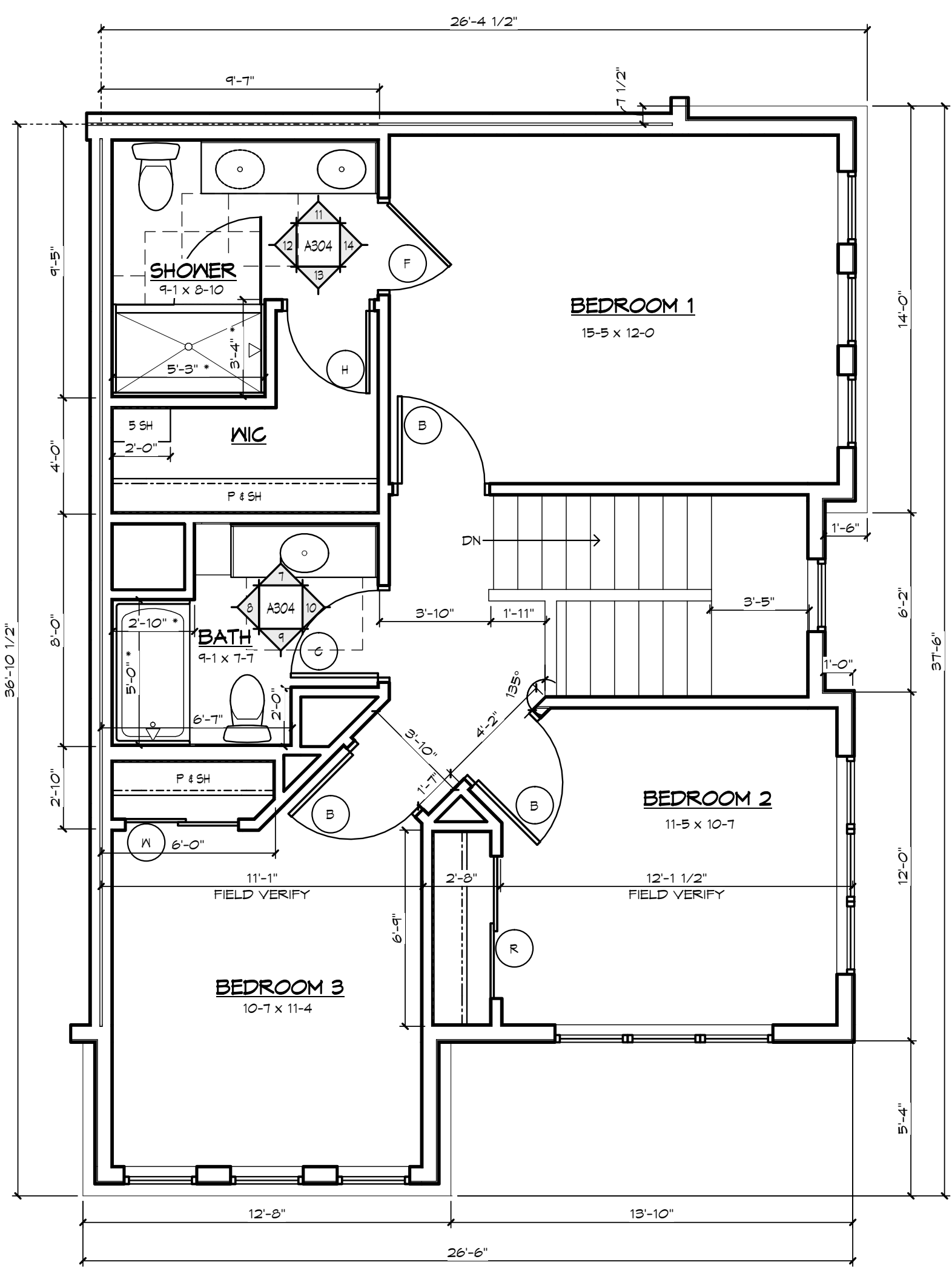
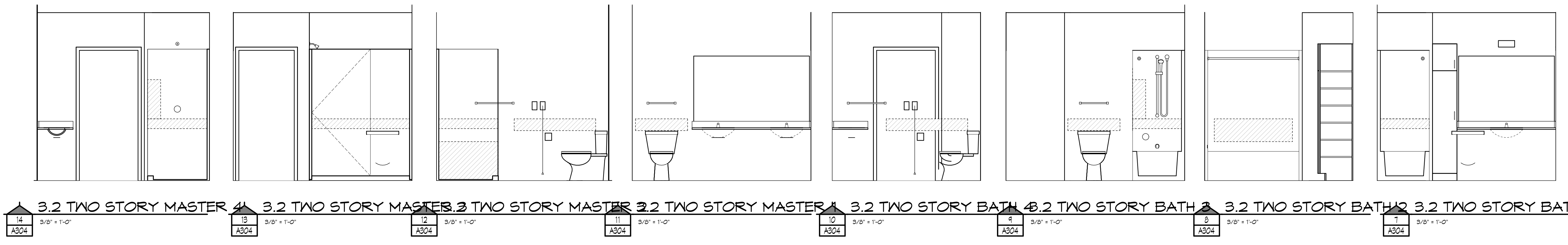
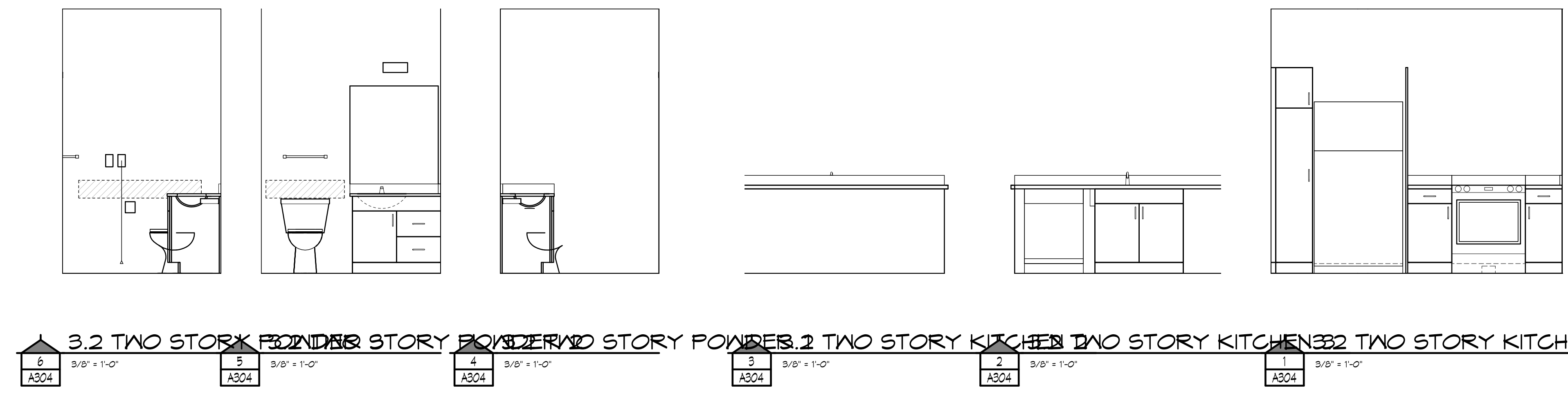
SWING DOOR - ENTRY: 3'-0" x 6'-8" x 1-3/4" THREE PANEL 'WINSLOW' 20 MINUTE DOOR (BOTTOM RAIL 10" HIGH) IN FIRE-RATED WOOD FRAME (FIRE-RATED WOOD FRAME PER SECTION 06402)

SWING DOOR - TYPICAL: 3'-0" x 6'-8" x 1-3/8" THREE PANEL 'WINSLOW' HOLLOW CORE PREHANG DOOR IN WOOD FRAME

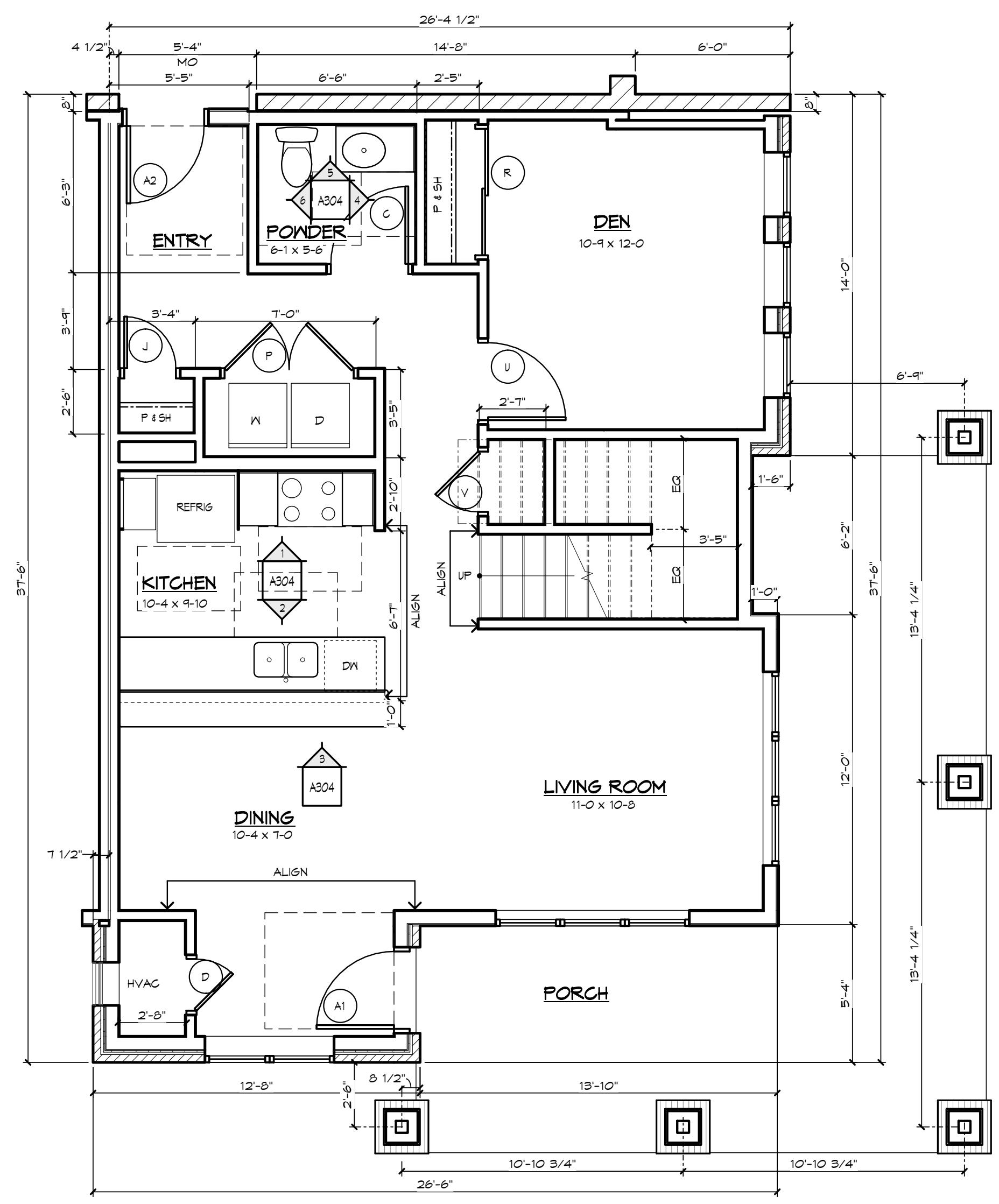
POCKET DOOR: 3'-0" x 6'-8" x 1-3/8" THREE PANEL 'WINSLOW' HOLLOW CORE IN POCKET DOOR FRAME

SLIDE BY AND BIFOLD DOOR: WIDTH AS SHOWN X 6'-8" X 1-3/8" THREE PANEL 'WINSLOW' HOLLOW CORE IN DRYWALL OPENING

PATIO/BALCONY AND FRENCH DOOR: WIDTH AS SHOWN X 6'-8" X 1-3/4" FULL LITE PREHANG (WITH INTEGRAL BLINDS) IN METAL-GLAZED WOOD FRAME



UPPER LEVEL
AREA = 861 SF



LOWER LEVEL
AREA = 861 SF
THREE BED PLUS DEN TWO STORY
B
AREA = 1764 SF
UNIT SHOWN, SEE OVERALL PLANS FOR SIMILAR/OPOSITE UNITS



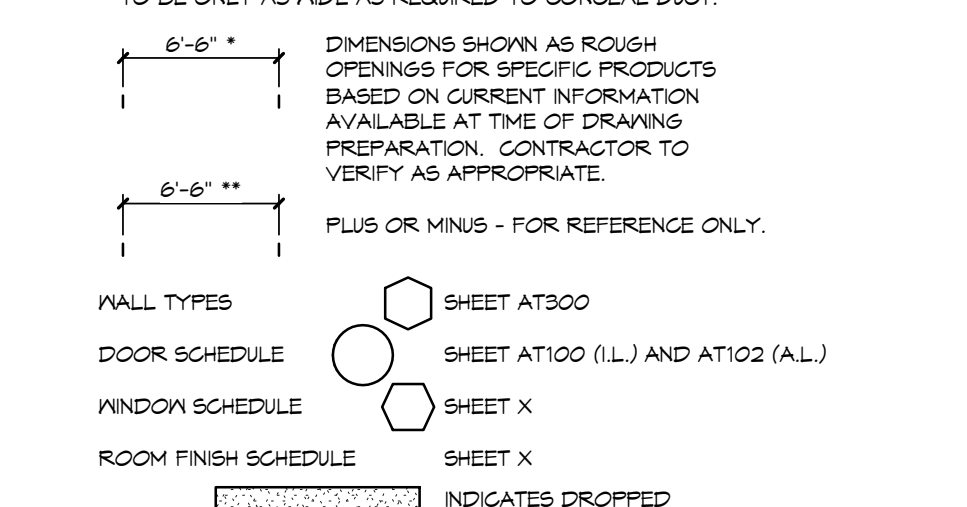
1814 UNDERWOOD AVE.
 WAUWATOSA, WI 53213
 414.431.3131 TEL
 414.431.0331 FAX
 WWW.A305ARCH.COM
 ARCHITECTURE
 ENGINEERING
 PLANNING
 REVISIONS
 NO. DATE DESCRIPTION

**INDEPENDENT LIVING UNIT INTERIOR
ELEVATION GENERAL NOTES:**

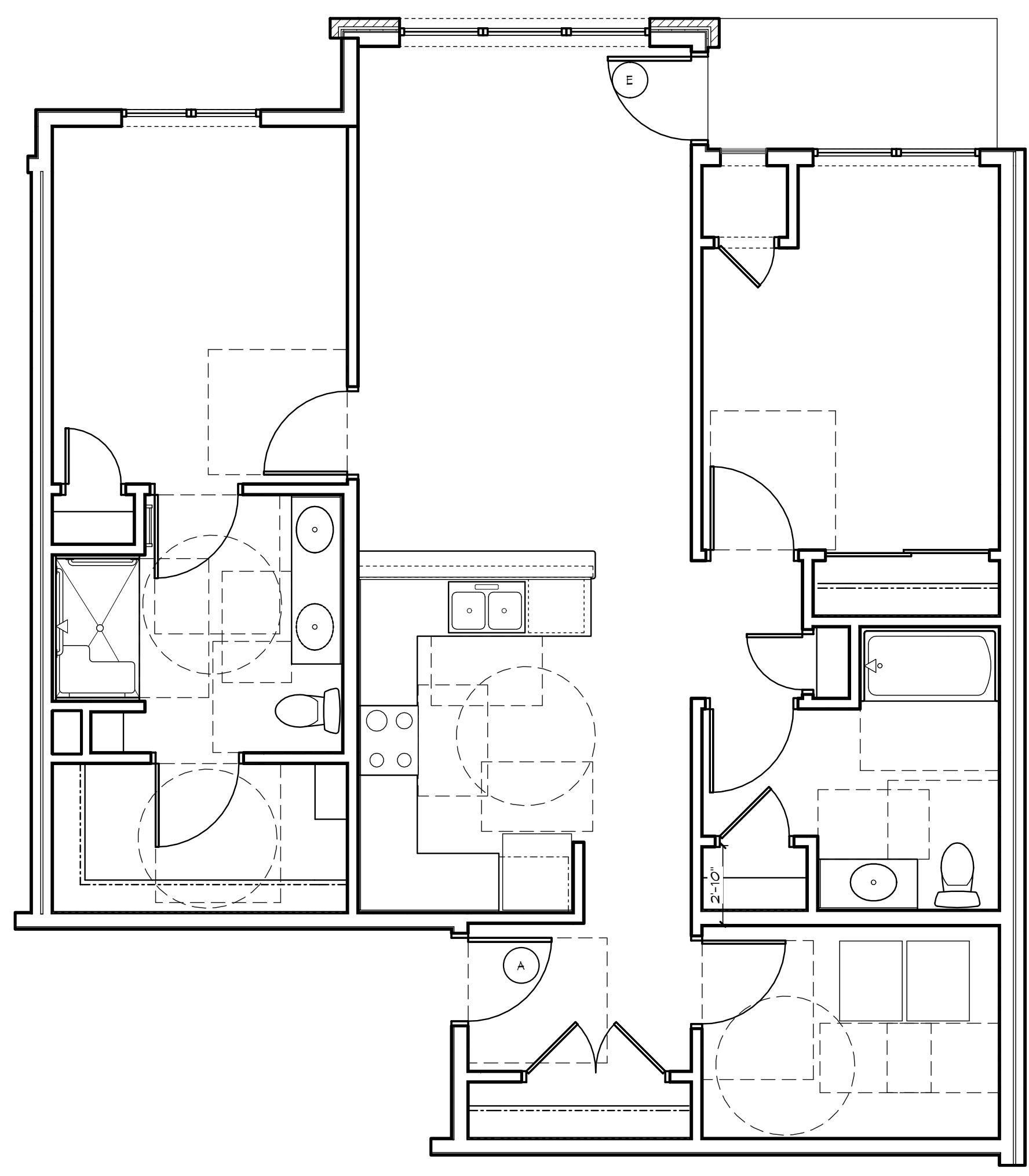
1. FIELD VERIFY ALL TOPS, MIRRORS AND CABINETRY DIMENSIONS.
2. FRAMED MIRROR SIZE SHOWN DOES NOT INCLUDE FRAME.
3. COUNTERTOP AND UPPER CABINET HEIGHTS AS SHOWN IN INTERIOR ELEVATIONS ARE BASED ON FINISHED FLOOR; INSTALL CABINETRY WITH BLOCKING PER SPEC SECTION 12256 TO MAINTAIN INDICATED HEIGHTS IN AREAS WITH CERAMIC TILE, WOOD OR SIMILAR FLOORING.
4. CONTINUE FLOOR MATERIALS INTO ALL APPLIANCE SPACES.
5. PROVIDE FINISHED END PANELS AT ALL EXPOSED CABINET ENDS INCLUDING NEXT TO APPLIANCES.
6. PROVIDE SILICONE SEALANT AT FULL PERIMETER OF TOILET, SHOWER/TUB AT FLOOR ONLY - TYPICAL.
7. PROVIDE CAULK BETWEEN SPLASHES AND WALLS.
8. PROVIDE BASE SHOE AT ALL BASE (MATCH COLOR) AND CABINETRY (BY CABINET MANUFACTURER) WITH VINYL, WOOD OR CERAMIC FLOORING.
9. ALL COUNTERTOPS, SPLASHES AND CABINETS TO BE SCRIBED TO FLOOR, CEILING AND WALL.
10. PROVIDE BASE BEHIND REFRIGERATOR AND RANGE.
11. SEE SHEET AT400 FOR TRIM PROFILES.
12. RETURN VALANCES AND CORON MOULDING TO WALL (TYPICAL OF ALL).
13. EMERGENCY CALL PULL CORDS TO BE TRIMMED SO BOTTOM OF CORD IS 4" ABOVE THE FLOOR.
14. ALL DISTRIBUTION PANELS TO BE POWDER PAINTED PER 09912.

**UNIT PLANS
GENERAL NOTES**

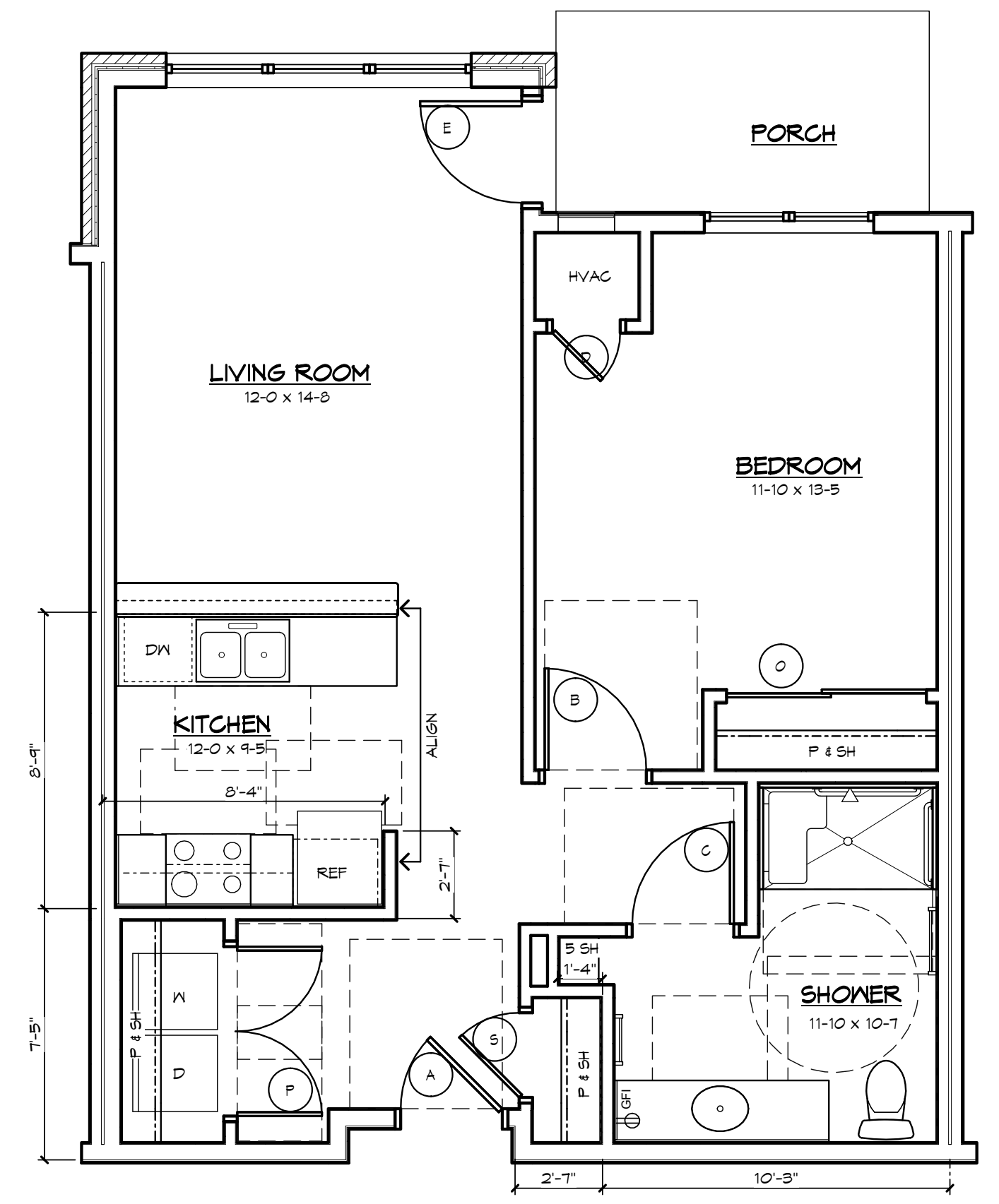
1. DIMENSIONS AT EXTERIOR WALLS ARE TO FACE OF BRICK OR SHEATHING. ALIGN WITH FOUNDATION WALL BELOW. CHANGE TO FACE OF BLOCK FOR PLANK / BLOCK BUILDING.
2. UNIT DIMENSIONS WALL DIMENSIONS ARE TO CENTER OF WALL.
3. ALL OTHER DIMENSIONS ARE TO FACE OF STUD.
4. VERIFY ALL ROUGH AND MASONRY OPENINGS (M.O.) WITH APPROVED SHOP DRAWINGS.
5. FIELD VERIFY ALL TOPS, MIRRORS AND CABINETRY DIMENSIONS.
6. COORDINATE STUD LOCATION WITH ELECTRICAL AND MECHANICAL CONTRACTORS TO ALLOW FOR WASHING MACHINE OUTLET BOXES, BATH EXHAUST, DRYER VENTS, ELECTRICAL PANELS, RECESSED MEDICINE CABINETS, ETC.
7. AT ALL CONCEALED SPACES THE FIRE RATED WALL, CEILING, FLOOR AND ROOF ASSEMBLY IS TO BE CONTINUOUS THROUGHOUT THE CONCEALED SPACE. SEE DETAIL 15/AT401.
8. THE FIRE RATED FLOOR/CEILING AND WALL ASSEMBLIES ARE TO BE CONTINUOUS ABOVE DROPPED CEILING AND SOFFITS.
9. THE UNDERLAYMENT AND SOUND MAT OF THE FIRE RATED FLOOR ASSEMBLY IS TO BE INSTALLED PRIOR TO THE TUB SHOWER UNIT ENCLOSURE BEING INSTALLED.
10. FIRE RATED WALL CONSTRUCTION MUST RUN CONTINUOUS BEHIND TUBS, SHOWERS, ETC. REFER TO DETAIL 5/AT401.
11. PROVIDE SILICONE SEALANT AT FULL PERIMETER OF TOILET, SHOWER/TUB AT FLOOR ONLY - TYPICAL.
12. PROVIDE CAULK BETWEEN SPLASHES AND WALLS.
13. PROVIDE BASE SHOE AT ALL BASE (MATCH COLOR) AND CABINETRY (BY CABINET MANUFACTURER) WITH VINYL, WOOD OR CERAMIC FLOORING.
14. VERIFY WALL CONSTRUCTION WITH WALL TYPE.
15. ALL DISTRIBUTION PANELS TO BE POWDER PAINTED PER 09912.
16. SOFFITS THAT ARE NOT SHOWN TO ALIGN WITH ENDS OF WALLS TO BE ONLY AS WIDE AS REQUIRED TO CONCEAL DUCT.



- DOORS - UNITS:**
- SWING DOOR - ENTRY: 3'-0" x 6'-8" x 1-3/4" THREE PANEL "WINSLOW" 20 MINUTE DOOR (BOTTOM RAIL 10" HIGH) IN FIRE-RATED WOOD FRAME (FIRE-RATED WOOD FRAME PER SECTION 06402)
 - SWING DOOR - TYPICAL: 3'-0" x 6'-8" x 1-3/8" THREE PANEL "WINSLOW" HOLLOW CORE FRESHING DOOR IN WOOD FRAME
 - POCKET DOOR: 3'-0" x 6'-8" x 1-3/8" THREE PANEL "WINSLOW" HOLLOW CORE IN POCKET DOOR FRAME
 - SLIDE BY AND BI-FOLD DOOR: WIDTH AS SHOWN x 6'-8" x 1-3/8" THREE PANEL "WINSLOW" HOLLOW CORE IN DRYWALL OPENING
 - PATIO/BALCONY AND FRENCH DOOR: WIDTH AS SHOWN x 6'-8" x 1-3/4" FULL LITE FRESHING (WITH INTEGRAL BLINDS) IN METAL-GLAZ WOOD FRAME
- SD/ DD NOTE ONLY - REVISE DOOR STYLES AS REQUIRED. DELETE WHEN DOOR SCHEDULE IS COMPLETE.



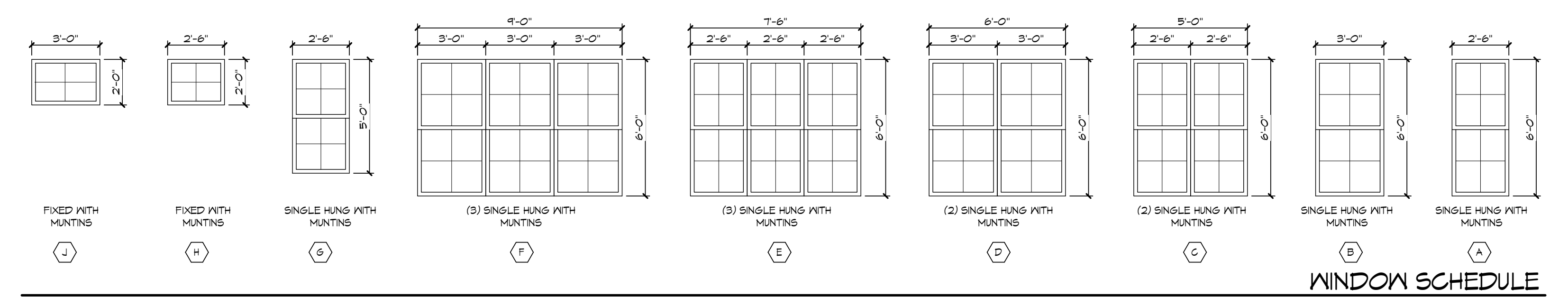
2.2 TWO BED A TYPE A
 AREA = 1211 SF
 UNIT SHOWN, SEE OVERALL PLANS FOR SIMILAR/OPOSITE UNITS



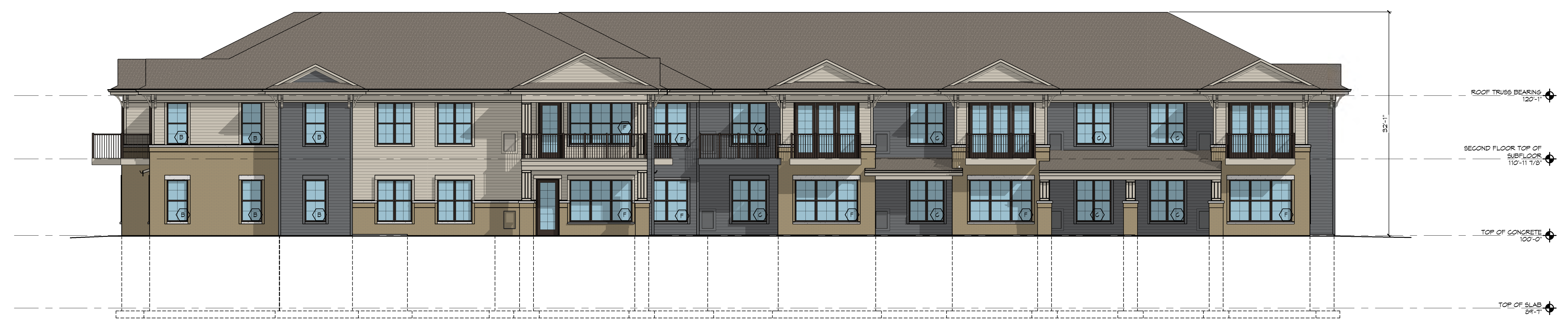
1.1 ONE BED TYPE A
 AREA = 748 SF
 UNIT SHOWN, SEE OVERALL PLANS FOR SIMILAR/OPOSITE UNITS

PROGRESS SET
 NOT FOR
 CONSTRUCTION

DATE
 26 JULY 2021
 PROJECT
 201101
 SHEET NO.



EAST ELEVATION
 1
 A500
 1/8" = 1'-0"



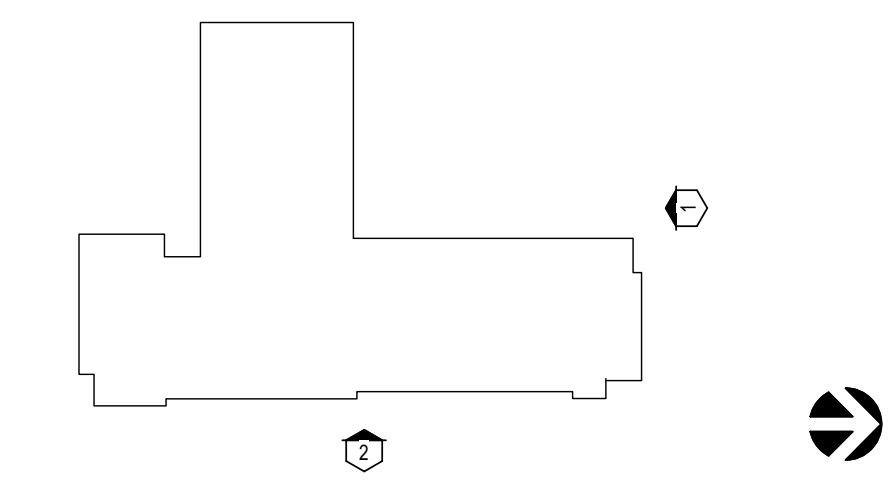
NORTH ELEVATION
 2
 A500
 1/8" = 1'-0"

EXTERIOR ELEVATION GENERAL NOTES

1. PROVIDE CONCRETE SPLASH BLOCKS AT ALL DOWNSPOUTS WHICH SPILL ONTO GRADE OR ROOFS.
 2. ALL CONDUIT, METERS, VENTS, ETC. TO BE PAINTED TO MATCH ADJACENT SURFACE.
 3. GUTTERS AND DOWNSPOUTS ARE PREFINISHED ALUMINUM.
 4. SEE SHEET A7401 FOR WINDOW AND STOREFRONT SCHEDULES.
- EXTERIOR ELEVATION KEY NOTES:**
- A THREE DIMENSIONAL ASPHALT SHINGLES
 - B BRICK
 - FS FIBER CEMENT SIDING WITH 5" LAP

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 Architecture
 Engineering
 Planning

REVISIONS	NO.	DATE	DESCRIPTION



PROGRESS SET
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DATE
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 PROJECT
 201101
 SHEET NO.

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 BY: jacob@agarch.com



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Planning

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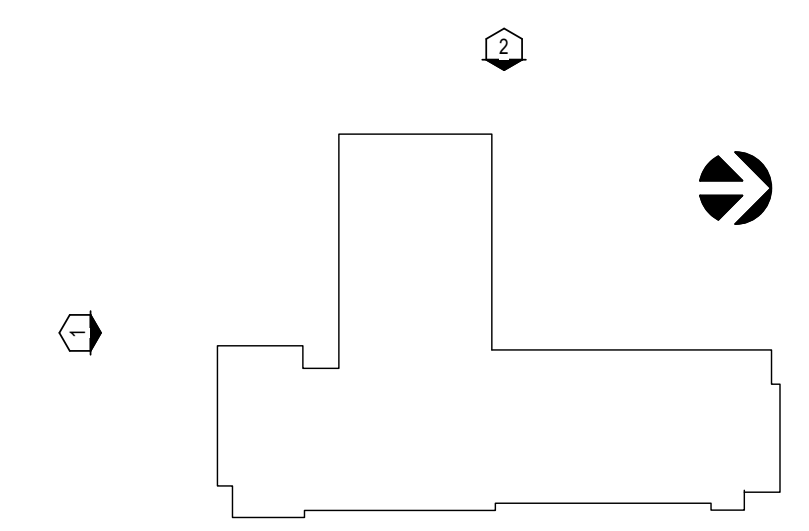
WEST ELEVATION
1
A501
1/8" = 1'-0"



SOUTH ELEVATION
2
A501
1/8" = 1'-0"

EXTERIOR ELEVATION GENERAL NOTES

1. PROVIDE CONCRETE SPLASH BLOCKS AT ALL DOWNSPOUTS WHICH SPILL ONTO GRADE OR ROOFS.
 2. ALL CONDUIT, METERS, VENTS, ETC. TO BE PAINTED TO MATCH ADJACENT SURFACE.
 3. GUTTERS AND DOWNSPOUTS ARE PREFINISHED ALUMINUM.
 4. SEE SHEET AT401 FOR WINDOW AND STOREFRONT SCHEDULES.
- EXTERIOR ELEVATION KEY NOTES:
- A THREE DIMENSIONAL ASPHALT SHINGLES
 - B BRICK
 - F5 FIBER CEMENT SIDING WITH 5" LAP



PROGRESS SET
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DATE
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PROJECT
201101
SHEET NO.



SECTION KEY NOTES	
KEY NOTES APPLY TO ALL SECTIONS, ALL KEY NOTES DO NOT NECESSARILY APPEAR ON ALL SHEETS	
CEILING NOTE	C02
FLOOR NOTE	F01
FLOOR NOTE	F02
FLOOR NOTE	F03
FLOOR NOTE	F04
FLOOR/CEILING ASSEMBLY NOTE	FC01
FLOOR/CEILING ASSEMBLY NOTE	FC02
FLOOR/FLOOR/CEILING ASSEMBLY GENERAL NOTE	FG01
FLOOR/FLOOR/CEILING ASSEMBLY GENERAL NOTE	FG02
FLOOR/FLOOR/CEILING ASSEMBLY GENERAL NOTE	FG03
FLOOR/FLOOR/CEILING ASSEMBLY GENERAL NOTE	FG04
FOUNDATION WALL NOTE	FA01
ROOF NOTE	RO1
ROOF NOTE	RO2
ROOF NOTE	RO3
ROOF GENERAL NOTE	RS01
ROOF GENERAL NOTE	RS02
ROOF GENERAL NOTE	RS03
ROOF GENERAL NOTE	RS04

Le Bon Vivant
41 Unit Apartment Building
Wauwatosa Wisconsin

J&J
Architecture

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A BUILDING SECTION
A600 3/8" = 1'-0"

3/8" BUILDING SECTION A600
INDEPENDENT

SHEET PRINTED ON: 7/26/2021 10:58 AM BY: jsmith@lebonvivants.com



VIEW FROM CORNER OF WRIGHT STREET AND 74TH STREET



VIEW FROM 74TH STREET





VIEW FROM WRIGHT STREET





VIEW FROM WRIGHT STREET

LE BON VIVANT

MATERIAL BOARD



A - ASPHALT SHINGLE - WEATHERED WOOD

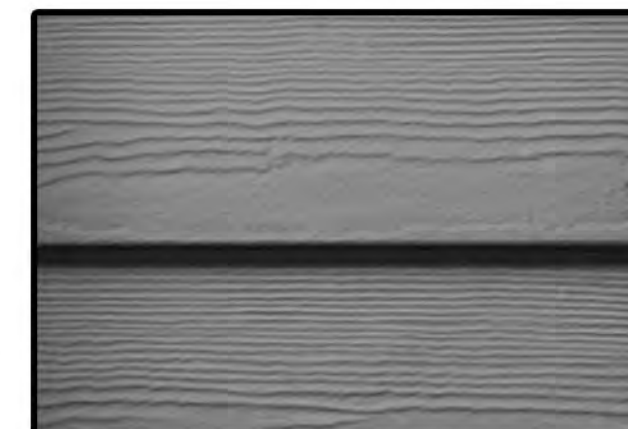


B - BRICK - SIOUX CITY BRICK - DUNES GREY VELOUR



FC5 - C1 - FIBER CEMENT LAP SIDING - COBBLESTONE

FIBER CEMENT TRIM - COBBLESTONE



FC5 - C2 - FIBER CEMENT LAP SIDING - NIGHT GREY

FIBER CEMENT TRIM - NIGHT GREY



LANDSCAPE WALL - COUNTY BLOCK - SWISS MOCHA



CAST STONE - LIMESTONE



RAILING - DARK BRONZE



**DOORS, STOREFRONT, AND
WINDOWS - DARK BRONZE**



Newport Outdoor LED Sconce NWPW Series

Features

All purpose LED sconce is an energy saving long-lasting alternative to Incandescent. Uses only 10 watts of power to operate. Excellent use in cold climates. LEDs turn on instantly at full brightness. Ideal use for security and general lighting. Provides lighting in residential, commercial, retail and hospitality applications. Fixture must be mounted to a standard junction box (not included) on a wall.

Construction

Housing is made from die-cast aluminum with a durable powder coating finish. Power supply connections must be made inside a junction box (not included).

Finish

Bronze patina coated finish.

Diffuser

Frosted glass top.

Electrical

Input 120 VAC/60 Hz .08A
Operating temperature -20° C (-4°F) to 40° C (104° F)

LED

Integrated LED modules capable of producing:
10W, 880 source lumens, 3000K.
Rated for 50,000 Hrs., 80 CRI.

Certification

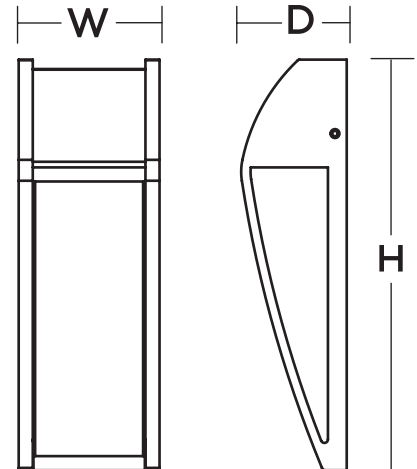
cETLus certified for outdoor wet locations.

Warranty

Limited warranty: This fixture is free from defects in materials and workmanship for a period of 5 years from date-of-purchase.

**Specifications and dimensions
subject to change without notice.**

LOCATION		DATE
PREPARED BY		QUANTITY
COMMENTS		FIXTURE TYPE
CATALOG NUMBER		



Ordering Information:

Bronze Patina	LED	Source Lumens	CCT	H	W	D
NWPW041409L30ENBP	10W	880	3000K	13-3/4"	4-3/4"	3-1/2"

DESCRIPTION

The patented Lumark Crosstour™ MAXX LED wall pack series of luminaires provides low-profile architectural style with super bright, energy-efficient LEDs. The rugged die-cast aluminum construction, back box with secure lock hinges, stainless steel hardware along with a sealed and gasketed optical compartment make Crosstour impervious to contaminants. The Crosstour MAXX wall luminaire is ideal for wall/surface, inverted mount for facade/canopy illumination, perimeter and site lighting. Typical applications include pedestrian walkways, building entrances, multi-use facilities, industrial facilities, perimeter parking areas, storage facilities, institutions, schools and loading docks.

SPECIFICATION FEATURES

Construction

Low-profile LED design with rugged one-piece, die-cast aluminum back box and hinged removable door. Matching housing styles incorporate both a full cutoff and refractive lens design. Full cutoff and refractive lens models are available in 58W, 81W and 102W. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes four 1/2" NPT threaded conduit entry points. The back box is secured by four lag bolts (supplied by others). External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Not recommended for car wash applications.

Optical

Silicone sealed optical LED chamber incorporates a custom engineered reflector providing high-efficiency illumination. Full cutoff models integrate an impact-resistant molded refractive prism optical lens assembly meeting requirements for Dark Sky compliance. Refractive lens models incorporate a molded lens

assembly designed for maximum forward throw. Solid state LED Crosstour MAXX luminaires are thermally optimized with eight lumen packages in cool 5000K, neutral 4000K, or warm 3000K LED color temperature (CCT).

Electrical

LED driver is mounted to the die-cast aluminum housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 58W, 81W and 102W models operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C [122°F] models available in 58W and 81W models only. Crosstour MAXX luminaires maintain greater than 89% of initial light output after 72,000 hours of operation. Four half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz, 480V 60Hz, or 347V 60Hz electrical operation. 480V is compatible for use with 480V Wye systems only.

Emergency Egress

Optional integral cold weather battery emergency egress includes emergency operation test switch (available in 58W and 81W models only), an AC-ON indicator light and a premium extended rated sealed maintenance-free nickel-metal hydride battery pack. The separate emergency lighting LEDs are wired to provide redundant emergency lighting. Listed to UL Standard 924, Emergency Lighting.

Finish

Crosstour MAXX is protected with a super TGIC carbon bronze or summit white polyester powder coat paint. Super TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

Warranty

Five-year warranty.



XTOR CROSSTOUR MAXX LED

APPLICATIONS:
WALL / SURFACE
INVERTED
SITE LIGHTING



CERTIFICATION DATA

UL/cUL Wet Location Listed
Dark Sky Approved (Fixed mount, Full cutoff, and 3000K CCT only)
DesignLights Consortium® Qualified*
LM79 / LM80 Compliant
ROHS Compliant
NOM Compliant Models
3G Vibration Tested
UL924 Listed (CBP Models)
IP66 Rated

TECHNICAL DATA

40°C Ambient Temperature
External Supply Wiring 90°C Minimum

EPA

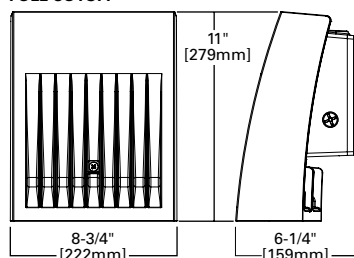
Effective Projected Area (Sq. Ft.):
XTOR6B, XTOR8B, XTOR12B=0.54

SHIPPING DATA:

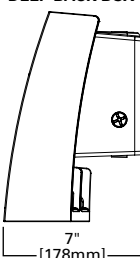
Approximate Net Weight:
12-15 lbs. [5.4-6.8 kgs.]

DIMENSIONS

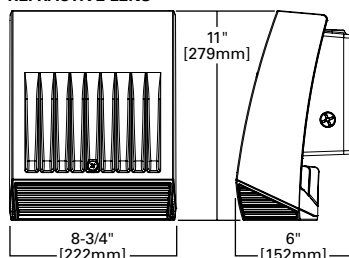
FULL CUTOFF



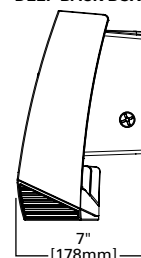
DEEP BACK BOX



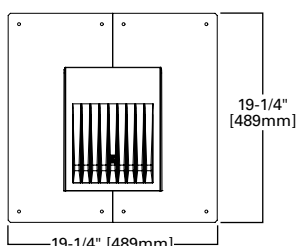
REFRACTIVE LENS



DEEP BACK BOX



ESCUTCHEON PLATES

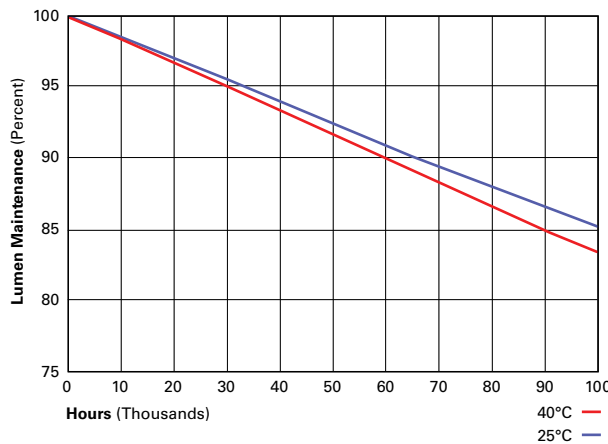


POWER AND LUMENS BY FIXTURE MODEL

58W Series						
LED Information	XTOR6B	XTOR6BRL	XTOR6B-W	XTOR6BRL-W	XTOR6B-Y	XTOR6BRL-Y
Delivered Lumens	6,129	6,225	6,038	6,133	5,611	5,826
B.U.G. Rating	B1-U0-G1	B2-U4-G3	B1-U0-G1	B2-U4-G3	B1-U0-G1	B2-U4-G3
CCT (Kelvin)	5000K	5000K	4000K	4000K	3000K	3000K
CRI (Color Rendering Index)	70	70	70	70	70	70
Power Consumption (Watts)	58W	58W	58W	58W	58W	58W
81W Series						
LED Information	XTOR8B	XTOR8BRL	XTOR8B-W	XTOR8BRL-W	XTOR8B-Y	XTOR8BRL-Y
Delivered Lumens	8,502	8,635	8,373	8,504	7,748	8,079
B.U.G. Rating	B2-U0-G1	B2-U4-G3	B2-U0-G1	B2-U4-G3	B2-U0-G1	B2-U4-G3
CCT (Kelvin)	5000K	5000K	4000K	4000K	3000K	3000K
CRI (Color Rendering Index)	70	70	70	70	70	70
Power Consumption (Watts)	81W	81W	81W	81W	81W	81W
102W Series						
LED Information	XTOR12B	XTOR12BRL	XTOR12B-W	XTOR12BRL-W	XTOR12B-Y	XTOR12BRL-Y
Delivered Lumens	12,728	13,458	12,539	13,258	11,861	12,595
B.U.G. Rating	B2-U0-G1	B2-U4-G3	B2-U0-G1	B2-U4-G3	B2-U0-G1	B2-U4-G3
CCT (Kelvin)	5000K	5000K	4000K	4000K	3000K	3000K
CRI (Color Rendering Index)	70	70	70	70	70	70
Power Consumption (Watts)	102W	102W	102W	102W	102W	102W
EGRESS Information	XTOR6B and XTOR8B Full Cutoff CBP Egress LED			XTOR6B and XTOR8B Refractive Lens CBP Egress LED		
Delivered Lumens	509			468		
B.U.G. Rating	N.A.			N.A.		
CCT (Kelvin)	4000K			4000K		
CRI (Color Rendering Index)	65			65		
Power Consumption (Watts)	1.8W			1.8W		

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)
XTOR6B Model		
25°C	> 90%	246,000
40°C	> 88%	217,000
50°C	> 88%	201,000
XTOR8B Model		
25°C	> 89%	219,000
40°C	> 87%	195,000
50°C	> 86%	181,000
XTOR12B Model		
25°C	> 89%	222,000
40°C	> 87%	198,000



CURRENT DRAW

Voltage	Model Series				
	XTOR6B	XTOR8B	XTOR12B	XTOR6B-CBP (Fixture/Battery)	XTOR8B-CBP (Fixture/Battery)
120V	0.51	0.71	0.94	0.60/0.25	0.92/0.25
208V	0.25	0.39	0.52	--	--
240V	0.25	0.35	0.45	--	--
277V	0.22	0.31	0.39	0.36/0.21	0.50/0.21
347V	0.19	0.25	0.33		--
480V	0.14	0.19	0.24		--



Cooper Lighting Solutions
 1121 Highway 74 South
 Peachtree City, GA 30269
 P: 770-486-4800
 www.cooperlighting.com

Specifications and dimensions subject to change without notice.

ORDERING INFORMATION

Sample Number: XTOR6B-W-WT-PC1

Series ¹	LED Kelvin Color	Housing Color	Options (Add as Suffix)
Full Cutoff XTOR6B=58W XTOR8B=81W XTOR12B=102W Refractive Lens XTOR6BRL=58W XTOR8BRL=81W XTOR12BRL=102W	[Blank] =Bright White (Standard) 5000K W =Neutral, 4000K Y =Warm, 3000K	[Blank] =Carbon Bronze (Standard) WT =Summit White BK =Black BZ =Bronze AP =Grey GM =Graphite Metallic DP =Dark Platinum	347V =347V ^{2,3,4,5} 480V =480V ^{2,3,4,5,6} PC1 =Photocontrol 120V ⁷ PC2 =Photocontrol 208-277V ^{7,8} MS-L20 =Motion Sensor for ON/OFF Operation ^{2,3,9,10} MS/DIM-L20 =Motion Sensor for Dimming Operation ^{2,3,9,10,11,12,13} CBP =Cold Weather Battery Pack ^{2,3,14,15,16} HA =50°C High Ambient ¹⁶
Accessories (Order Separately)			
WG-XTORMX =Crosstour MAXX Wire Guard PB120V =Field Installed 120V Photocontrol PB277V BUTTON PC =Field Installed 208-277V Photocontrol ⁸		EWP/XTORMX =Escutcheon Wall Plate, Carbon Bronze EWP/XTORMX-WT =Escutcheon Wall Plate, Summit White FSIR-100 =Wireless Configuration Tool for Occupancy Sensor ¹³	

- NOTES:**
- DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.
 - Not available with HA option.
 - Deep back box is standard for 347V, 480V, CBP, MS-L20 and MS/DIM-L20.
 - Not available with CBP option.
 - Thru-branch wiring not available with HA option or with 347V.
 - Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
 - Not available with MS-L20 and MS/DIM-L20 options.
 - Use PC2 with 347V or 480V option for photocontrol. Factory wired to 208-277V lead.
 - For use in downlight orientation only. Optimal coverage at mounting heights of 9'-20'.
 - 120V thru 277V only.
 - Factory set to 50% power reduction after 15-minutes of inactivity. Dimming driver included.
 - Includes integral photo sensor.
 - The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff, and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
 - 120V or 277V operation only.
 - Operating temperatures -20°C to 25°C.
 - Not available in XTOR12B or XTOR12BRL models.

STOCK ORDERING INFORMATION

58W Series	81W Series	102W Series
Full Cutoff		
XTOR6B=58W, 5000K, Carbon Bronze	XTOR8B=81W, 5000K, Carbon Bronze	XTOR12B=102W, 5000K, Carbon Bronze
XTOR6B-PC1=58W, 5000K, 120V PC, Carbon Bronze	XTOR8B-PC1=81W, 5000K, 120V PC, Carbon Bronze	
XTOR6B-WT= 58W, 5000K, Summit White	XTOR8B-WT=81W, 5000K, Summit White	
XTOR6B-W=58W, 4000K, Carbon Bronze	XTOR8B-PC2=81W, 5000K, 208-277V PC, Carbon Bronze	
XTOR6B-PC2= 58W, 5000K, 208-277V PC, Carbon Bronze	XTOR8B-347V=81W, 5000K, Carbon Bronze, 347V	
Refractive Lens		
XTOR6BRL=58W, 5000K, Refractive Lens, Carbon Bronze	XTOR8BRL=81W, 5000K, Refractive Lens, Carbon Bronze	XTOR12BRL=102W, 5000K, Refractive Lens, Carbon Bronze
XTOR6BRL-PC1=58W, 5000K, Refractive Lens, 120V PC, Carbon Bronze	XTOR8BRL-PC1=81W, 5000K, Refractive Lens, 120V PC, Carbon Bronze	XTOR12BRL-W=102W, 4000K, Refractive Lens, Carbon Bronze
XTOR6BRL-WT=58W, 5000K, Refractive Lens, Summit White	XTOR8BRL-WT=81W, 5000K, Refractive Lens, Summit White	XTOR12BRL-347V=102W, 5000K, Refractive Lens, Carbon Bronze, 347V
XTOR6BRL-W=58W, 4000K, Refractive Lens, Carbon Bronze	XTOR8BRL-PC2=81W, 5000K, Refractive Lens, 208-277V PC, Carbon Bronze	
XTOR6BRL-PC2=58W, 5000K, Refractive Lens, 208-277V PC, Carbon Bronze	XTOR8BRL-W=81W, 4000K, Refractive Lens, Carbon Bronze	
XTOR6BRL-347V=58W, 5000K, Refractive Lens, Carbon Bronze, 347V	XTOR8BRL-347V = 81W, 5000K, Refractive Lens, Carbon Bronze, 347V	



Cooper Lighting Solutions
 1121 Highway 74 South
 Peachtree City, GA 30269
 P: 770-486-4800
 www.cooperlighting.com

Specifications and dimensions subject to change without notice.

DESCRIPTION

Recessed 6-inch LED downlight provides narrow, medium or wide distribution patterns ideal for general area lighting. Lumen options range from 1000 to 4000 lumens in color temperatures of 2700K, 3000K, 3500K, and 4000K; in 80 or 90CRI. Luminaire is airtight and can be installed in new construction or below the finished ceiling in remodeling applications. Intended for healthcare, hospitality, office spaces, and institutional applications.

SPECIFICATION FEATURES

Housing Frame

- Boat shaped galvanized steel plaster frame with adjustable plaster lip accommodates 1/2" to 1-1/2" thick ceilings
- May be installed in new construction; may be installed from below the finished (non-accessible) ceiling in remodeling (with mounting bars removed).
- Provided with (2) old work remodel clips to secure the frame to the ceiling

Universal Mounting Bracket

- Mounting bracket adjusts 2" vertically from above the ceiling or thru the aperture
- Use with the included mounting bars or with 1/2" EMT
- Removable to facilitate installation from below the finished ceiling

Mounting Bars

- Captive pre-installed No Fuss™ mounting bars lock to tee grid with screwdriver or pliers
- Centering mechanism allows for consistent positioning of fixtures

LED Module

- Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation
- Available in 80 or 90 CRI minimum, accuracy within 3 SDCM provides color uniformity
- 90 CRI option: R9>50 (refer to photometry section)
- Correlated color temperature options
 - 2700K
 - 3000K
 - 3500K
 - 4000K
- Passive thermal management achieves L70 at 60,000 hours in IC and non IC applications
- Integral diffuse lens provides visual shielding
- Integral connector allows quick connection to housing flex

Lumen Options

- Nominal lumen values
 - 1000 lm
 - 1500 lm
 - 2000 lm
 - 3000 lm
 - 4000 lm

Reflector

- Self-flanged aluminum reflectors are available in narrow, medium or wide distribution patterns
- Medium distribution polymer non-conductive matte white reflector may be used to meet local codes for 'dead front' applications (Non-IC, 3000 lumen max.)
- Wall wash reflector features a rotatable insert assembly with integral linear spread lens for precise alignment of vertical illumination.
- Reflector attaches to LED module with (3) speed clamps
- Multiple painted or plated finishes are available

Reflector / Module Retention

- Reflector / module assembly is securely retained in the housing with (2) torsion springs

Driver

- Field replaceable constant current driver provides low noise operation
- UNV 120-277VAC 50/60Hz input standard
- 347VAC 50/60Hz input option (Canada only)
- Continuous, 1%-100% dimming with 0 -10V analog control
- Optional low voltage DC driver for use with DLVP distributed low voltage power system

Emergency Option

- Provides 90 minutes of standby lighting meeting most life safety codes for egress lighting
- Available with integral or remote charge indicator and test switch
- Available Self-Test (self-diagnostic), with remote charge indicator and test switch

Connected Lighting Options

- WaveLinX - two options:
 - Factory installed WaveLinX tile mount sensor kit
 - Field installed WaveLinX accessory tile mount sensor kit.
- The WTA WaveLinX tile mount sensor kit offers daylight dimming, PIR motion sensing control, and optional RLTS - Real Time Location Services. (Refer to WaveLinX system specifications.) The WTA WaveLinX kit includes control module that mounts on the luminaire electrical junction box via 1/2" knock-out, and tilemount sensor with direct-mount spring clips or for octagon ceiling box with included mounting bracket. (Field mount kit ordered and installed separately).
- Enlighted wireless tile mount sensor and control kit

Catalog #		Type
Project		DR
Comments		Date
Prepared by		



HC6
Frame

HM6
LED Module

61
61PS

Series Reflectors

6-inch Lens Downlight
and Lens Wall Wash

1000/1500/2000/
3000/4000 Lumen



Junction Box

- Galvanized steel junction box
- 20 in³ internal volume excluding voltage barrier
- 25 in³ internal total volume
- Voltage divider for 0-10V dimming wires [occupies (1) 1/2" pry-out space]
- Listed for (8) #12 AWG (four in, four out) 90° C conductors and feed-thru branch wiring
- (3) 1/2" and (2) 3/4" trade size pry-outs available
- (3) 4-port push wire nuts for mains voltage, with 1-port for fixture connection

Compliance

- cULus Listed/Classified, wet location labeled for covered ceilings
- IP20 - Above finished ceiling; IP65 - Below finished ceiling
- Non-IC rated 3000, 4000 lumen models. Insulation must be kept 3" from top and sides.
- IC rated 1000, 1500, 2000 lumen models are suitable for direct contact with air permeable insulation (also suitable for Non-IC)
- Not for use in direct contact with spray foam insulation, consult NEMA LSD57-2013
- Airtight per ASTM-E283-04
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions FCC CFR Title 47 Part 15 Class A at 120/277V
- Contains no mercury or lead and RoHS compliant
- Photometric testing in accordance with IES LM-79-08
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- 1000, 1500 and 2000 lumen 90CRI ICAT models may be used to comply with State of California Title 24 residential code, per JAB certification standards
- May be used to comply with State of California Title 24 non-residential code, as a dimmable LED luminaire
- ENERGY STAR® certified, reference certified light fixtures database

Warranty

- Limited 5-year warranty, see website for details. www.cooperlighting.com/legal

ENERGY DATA

Series	1000 lumen	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.085	0.042
Input Power (W)	10.1	10.9
In-rush Current (A)	0.644	1.95
In-rush Duration (ms)	0.125	0.24
THDi (%)	8.6	15.6
PF:	≥ 0.90	
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -30°C (-22°F)*		
Sound Rating: Class A standards		

Series	1500 lumen	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.119	0.055
Input Power (W)	14.2	14.9
In-rush Current (A)	0.212	0.85
In-rush Duration (ms)	0.28	0.32
THDi (%)	7.8	16.3
PF:	≥ 0.90	
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -30°C (-22°F)*		
Sound Rating: Class A standards		

Series	2000 lumen	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.176	0.082
Input Power (W)	21.1	21.4
In-rush Current (A)	0.588	0.624
In-rush Duration (ms)	0.3	0.38
THDi (%)	8.8	11.2
PF:	≥ 0.90	
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -30°C (-22°F)*		
Sound Rating: Class A standards		

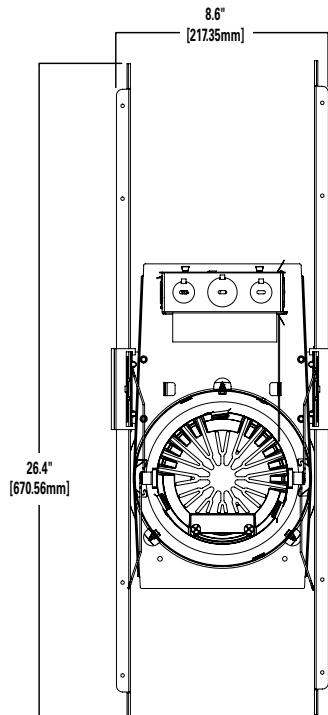
Series	3000 lumen	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.228	0.102
Input Power (W)	27.2	27
In-rush Current (A)	0.898	1.7
In-rush Duration (ms)	0.36	0.38
THDi (%)	9.7	9.3
PF:	≥ 0.90	
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -30°C (-22°F)*		
Sound Rating: Class A standards		

Series	4000 lumen	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.345	0.15
Input Power (W)	41.3	40.7
In-rush Current (A)	1.05	2.23
In-rush Duration (ms)	0.32	0.34
THDi (%)	10.06	14.01
PF:	≥ 0.90	
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -30°C (-22°F)*		
Sound Rating: Class A standards		

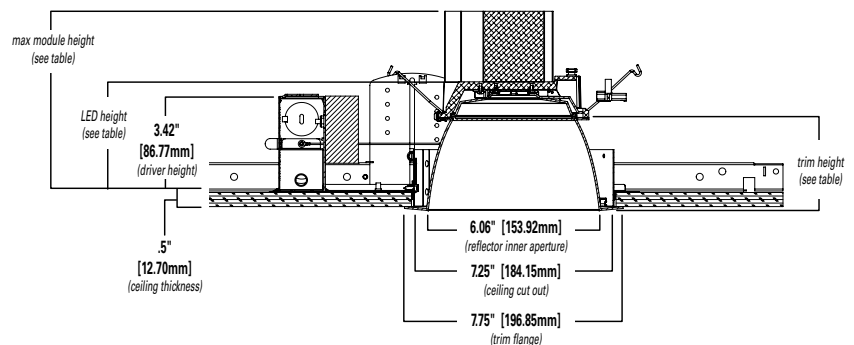
Notes:

* Emergency Battery packs are rated for a minimum starting temperature of 0°C.

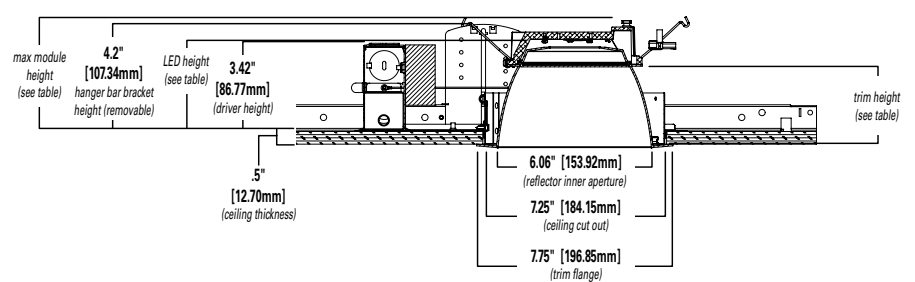
DIMENSIONS



**NEW CONSTRUCTION - HIGH LUMEN
3000 AND 4000 LUMEN**



**NEW CONSTRUCTION - LOW LUMEN
1000, 1500, AND 2000 LUMENS**



High Lumen (3000 & 4000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	6.6"	3.4"	3.8"
Medium	6.7"	3.5"	3.9"
Wide	6.5"	3.3"	3.7"
Baffle	6.5"	3.3"	3.7"

Low Lumen (1000, 1500 & 2000 Lumens)*

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	4.5"	3.4"	3.8"
Medium	4.6"	3.5"	3.9"
Wide	4.4"	3.3"	3.7"
Baffle	4.4"	3.3"	3.7"

*Max. height w/hanger bar bracket 4.2"

Ordering Information

Sample Number: HC620D010REM7 – HM612835 - 61MDC

A complete luminaire consists of a housing frame, LED module, and reflector (ordered separately)

Mounting Frame	Lumens	Input / Control	Factory Installed Options	Accessories
<p>HC6 = 6" new construction and remodeler housing</p> <p>HC6CP = 6" new construction and remodeler housing, CCEA Chicago Plenum rated</p>	<p>10 = 1000 lumens (nominal)</p> <p>15 = 1500 lumens (nominal)</p> <p>20 = 2000 lumens (nominal)</p> <p>30 = 3000 lumens (nominal)</p> <p>40 = 4000 lumens (nominal)</p>	<p>D010 = 120-277VAC 50/60Hz 0-10V analog 1%-100% dimming</p> <p>D010347 = 347VAC 50/60Hz 0-10V analog 1%-100% dimming (Canada only) ¹</p> <p>DLV = Distributed Low Voltage driver, 1%-100% dimming DLV for use with DLVP system only. Refer to DLVP low-voltage power module and DLVP specifications for details. ¹</p>	<p>REM7 = 7 watt emergency module with remote test / indicator light, use with D010 only ¹</p> <p>REM14 = 14 watt emergency module with remote test / indicator light, use with D010 only ¹</p> <p>IEM7 = integral 7 watt emergency module with integral test / indicator light, use with D010 only ¹</p> <p>IEM14 = integral 14 watt emergency module with integral test / indicator light, use with D010 only ¹</p> <p>BOD7ST = 7.5 watt Bodine self-test diagnostic emergency module with remote test / indicator light, use with D010 only ¹</p> <p>LWTPD1 = factory installed Enlighted wireless tile mount sensor kit, use with D010 only ¹</p> <p>WTA=Factory installed WaveLinX tile mount sensor Kit ^{1, 5}</p> <p>REM7V = 7 watt emergency module with remote test / indicator light, use with DLV only ^{1, 2}</p> <p>REM14V = 14 watt emergency module with remote test / indicator light, use with DLV only ^{1, 2}</p> <p>IEM7V = integral 7 watt emergency module with integral test / indicator light, use with DLV only ^{1, 2}</p> <p>IEM14V = integral 14 watt emergency module with integral test / indicator light, use with DLV only ^{1, 2}</p>	<p>HB128APK = L channel hanger bar, 26", pair (replacement)</p> <p>RMB22 = Adjustable wood joist mounting bars, pair, extend to 22" long</p> <p>HSA6=Slope Adapter for 6" Aperture Housings, Specify Slope (refer to instructions for installation of housing and trim)</p> <p>H347 = 347 to 120V step down transformer, 75VA</p> <p>H347200 = 347 to 120V step down transformer, 200VA</p> <p>PORLWTPD1 = Field installed Enlighted wireless sensor kit, use with D010 only ¹</p> <p>WTA=Factory installed WaveLinX tile mount sensor Kit ^{1, 5}</p>

LED Module	Lumens	CRI/CCT
<p>HM6 = 6" LED module</p>	<p>12=1000, 1500 and 2000 lumens (nominal), use with HC610*, HC615*, HC620* housings</p> <p>34=3000 and 4000 lumens (nominal), use with HC630*, HC640* housings</p>	<p>827 = 80 CRI (minimum), 2700K CCT</p> <p>830 = 80 CRI (minimum), 3000K CCT</p> <p>835 = 80 CRI (minimum), 3500K CCT</p> <p>840 = 80 CRI (minimum), 4000K CCT</p> <p>927 = 90 CRI (minimum), 2700K CCT</p> <p>930 = 90 CRI (minimum), 3000K CCT</p> <p>935 = 90 CRI (minimum), 3500K CCT</p> <p>940 = 90 CRI (minimum), 4000K CCT</p>

Reflector	Distribution ³	Finish	Flange	Accessories
<p>61 = 6" conical reflector</p>	<p>ND = narrow 55° beam angle 0.97 SC</p> <p>MD = medium 60° beam angle 1.10 SC</p> <p>WD = wide 65° beam angle 1.28 SC</p> <p>RWW = rotatable wall wash with linear spread lens</p>	<p>C = Specular clear</p> <p>H = Semi-specular clear</p> <p>W = White</p>	<p>Blank = Polished flange standard with C & H reflectors</p> <p>Blank = White flange standard with W reflector</p> <p>WF = White flange option available with C & H reflectors</p>	<p>61RWWPK = rotatable wall wash insert for 6" reflector –replacement part kit</p>

Baffle	Distribution ³	Finish	Flange	Accessories
<p>61 = 6" baffle reflector</p>	<p>WD = wide 65° beam angle 1.28 SC (nominal)</p> <p>RWW = rotatable wall wash with linear spread lens</p>	<p>BB = Black baffle</p> <p>WB = White baffle</p>	<p>Blank = White flange standard with BB, & WB</p> <p>BF = Black flange option available with BB</p>	<p>61RWWPK = rotatable wall wash insert for 6" reflector –replacement part kit</p>

IEM Reflector	Distribution ³	Finish	Flange	Integral Emergency
<p>61 = 6" IEM reflector for integral emergency only</p>	<p>ND = narrow 55° beam angle 0.97 SC</p> <p>MD = medium 60° beam angle 1.10 SC</p> <p>WD = wide 65° beam angle 1.28 SC</p>	<p>C = Specular clear</p> <p>H = Semi-specular clear</p> <p>W = White</p>	<p>Blank = Polished flange standard with C & H reflectors</p> <p>Blank = White flange standard with W reflector</p> <p>WF = White flange option available with C & H reflectors</p>	<p>IEM = Reflector for integral emergency only</p>

IEM Baffle	Distribution ³	Finish	Flange	Integral Emergency
<p>61 = 6" IEM baffle reflector for integral emergency only</p>	<p>WD = wide 65° beam angle 1.28 SC (nominal)</p>	<p>BB = Black baffle</p> <p>WB = White baffle</p>	<p>Blank = White flange standard with BB, & WB</p> <p>BF = Black flange option with BB</p>	<p>IEM = Reflector for integral emergency only</p>

Reflector	Distribution ³	Finish	Flange
<p>61PS = 6" non-conductive polymer 'dead front' conical reflector⁴</p>	<p>MD = medium 60° beam angle 1.10 SC (nominal)</p>	<p>W = White</p>	<p>Blank = White flange standard with W reflector</p>

- Notes:**
- Not available with CP version
 - ULus for U.S. only
 - Values are nominal, with specular clear reflector, other finishes and field results may vary.
 - 61PS reflector is for Non-IC environment only, and up to 3000 lumens only.
 - WTA = WaveLinX tile mount sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - RealTime Location Services, use with D010 only (Refer to WaveLinX system specifications)

PHOTOMETRY

NARROW DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

NARROW (55° BEAM*)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT				CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P285970							Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	HC620D010							0	1962	0-30	1385	72.1	45	8706
Module	HM612835							5	1962	0-40	1796	93.5		
Reflector	61NDC							15	1975	0-60	1915	99.7		
Lumens	1920 Lm							25	1434	0-90	1920	100		
Efficacy	96 Lm/W	35	671	90-180	0	0								
SC	0.97	45	112	0-180	1920	100	75	551						
UGR	11.7	55	13	85	0		85	0						
		65	3	90	0									
		75	3											
		85	0											
		90	0											

MEDIUM DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

MEDIUM (60° BEAM*)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT				CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P286170							Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	HC620D010							0	1642	0-30	1387	70.8	45	9296
Module	HM612835							5	1660	0-40	1821	93		
Reflector	61MDC							15	1854	0-60	1951	99.6		
Lumens	1959 Lm							25	1576	0-90	1959	100		
Efficacy	97.9 Lm/W	35	699	90-180	0	0								
SC	1.10	45	120	0-180	1959	100	75	551						
UGR	11.8	55	15	85	0		85	0						
		65	5	90	0									
		75	3											
		85	0											
		90	0											

WIDE DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WIDE (65° BEAM*)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT				CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P286370							Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	HC620D010							0	1341	0-30	1282	62.7	45	15614
Module	HM612835							5	1349	0-40	1835	89.7		
Reflector	61WDC							15	1466	0-60	2037	99.6		
Lumens	2045 Lm							25	1642	0-90	2045	100		
Efficacy	102.3 Lm/W	35	877	90-180	0	0								
SC	1.28	45	201	0-180	2045	100	75	530						
UGR	11.6	55	28	85	0		85	0						
		65	5	90	0									
		75	2											
		85	0											
		90	0											

*Value are nominal with specular clear reflectors, other finishes and field results may vary.
SC = Spacing Criteria
UGR = Unified Glare Rating

Photometric Multipliers (nominal lumen values)

1000 Lumen	1500 Lumen	2000 Lumen	3000 Lumen	4000 Lumen
0.52	0.72	1.00	1.44	2.02

Multipliers for relative lumen values with other series models.

CCT Multipliers – 80CRI

2700K	3000K	3500K	4000K
0.93	0.95	1.00	1.05

Multipliers for relative lumen values with other series color temperatures.

Color Finish Multipliers

Finish code	C	H	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.91	0.92	0.84

Multipliers for relative lumen values with other color finishes.

CCT Multipliers – 90CRI

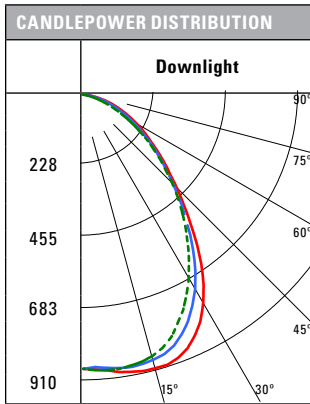
2700K	3000K	3500K	4000K
0.75	0.82	0.90	0.89

Multipliers for relative lumen values with other series color temperatures.

PHOTOMETRY

WALL WASH DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WALL WASH	
Test Number	P286650
Housing	HC620D010
Module	HM612835
Reflector	61RWWC
Lumens	1798 Lm
Efficacy	89.9 Lm/W
SC	1.23



CANDELA TABLE	
Degrees Vertical	Candela
0	882
5	890
15	910
25	854
35	665
45	431
55	270
65	161
75	74
85	10
90	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	% Fixture
0-30	696	38.7
0-40	1079	60
0-60	1629	90.6
0-90	1798	100
90-180	0	0
0-180	1798	100

LUMINANCE	
Average Candela Degrees	Average 0° Luminance
45	33399
55	25825
65	20832
75	15653
85	6416

SC = Spacing Criteria, nominal for specular clear reflector, other finishes and field results may vary.

SINGLE UNIT FOOTCANDLES							
2.5' from wall (distance from fixture along wall)							
1	16.8	12	5.4	2	0.7	0.2	0.1
2	24.7	19.2	10.5	4.9	2.2	1	0.5
3	22.8	18.6	11.4	6.2	3.2	1.7	0.9
4	17.5	15	10.3	6.2	3.6	2	1.2
5	11.9	10.7	8.2	5.5	3.4	2.1	1.3
6	8	7.4	6.1	4.5	3.1	2	1.3
7	5.5	5.2	4.5	3.6	2.6	1.9	1.3
8	3.9	3.7	3.3	2.8	2.2	1.6	1.2
9	2.8	2.7	2.5	2.2	1.8	1.4	1.1
10	2.1	2	1.9	1.7	1.5	1.2	0.9

MULTIPLE UNIT FOOTCANDLES								
2.5' from wall (distance from fixture along wall)			2.5' from wall (distance from fixture along wall)					
3			4					
1	18.8	16.6	18.8	17.5	10.7	17.5		
2	29.5	29.2	29.5	26.8	20.9	26.8		
3	29	29.8	29	26	22.9	26		
4	23.7	25.3	23.7	21	20.5	21		
5	17.4	19.2	17.4	15.4	16.3	15.4		
6	12.5	13.7	12.5	11.1	12.2	11.1		
7	9.1	9.8	9.1	8.1	9	8.1		
8	6.7	7.1	6.7	6.1	6.7	6.1		
9	5	5.3	5	4.6	5	4.6		
10	3.8	4	3.8	3.5	3.8	3.5		

Photometric Multipliers (nominal lumen values)

1000 Lumen	1500 Lumen	2000 Lumen	3000 Lumen	4000 Lumen
0.52	0.72	1.00	1.44	2.02

Multipliers for relative lumen values with other series models.

Color Finish Multipliers

Finish code	C	H	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.91	0.92	0.84

Multipliers for relative lumen values with other color finishes.

CCT Multipliers – 80CRI

2700K	3000K	3500K	4000K
0.93	0.95	1.00	1.05

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers – 90CRI

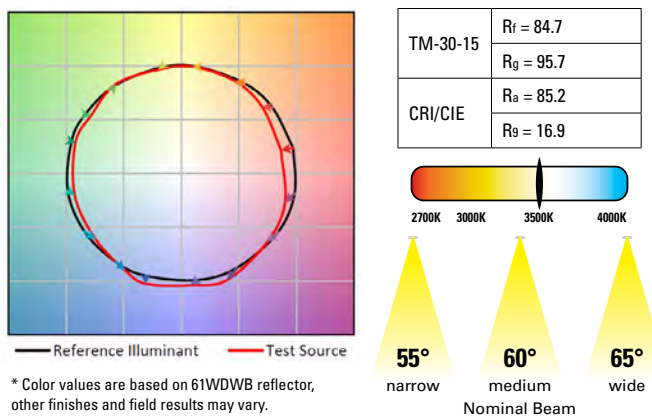
2700K	3000K	3500K	4000K
0.75	0.82	0.90	0.89

Multipliers for relative lumen values with other series color temperatures.

COLOR METRICS

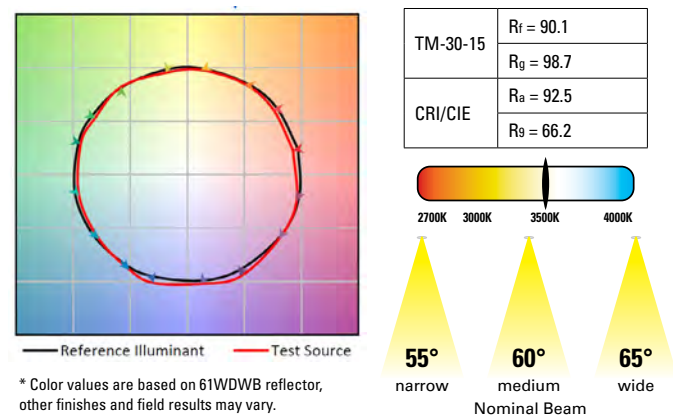
TM-30-15 & CRI/CIE (3500K)

80 CRI Color Metric Summary - 3500K*



* Color values are based on 61WDWB reflector, other finishes and field results may vary.

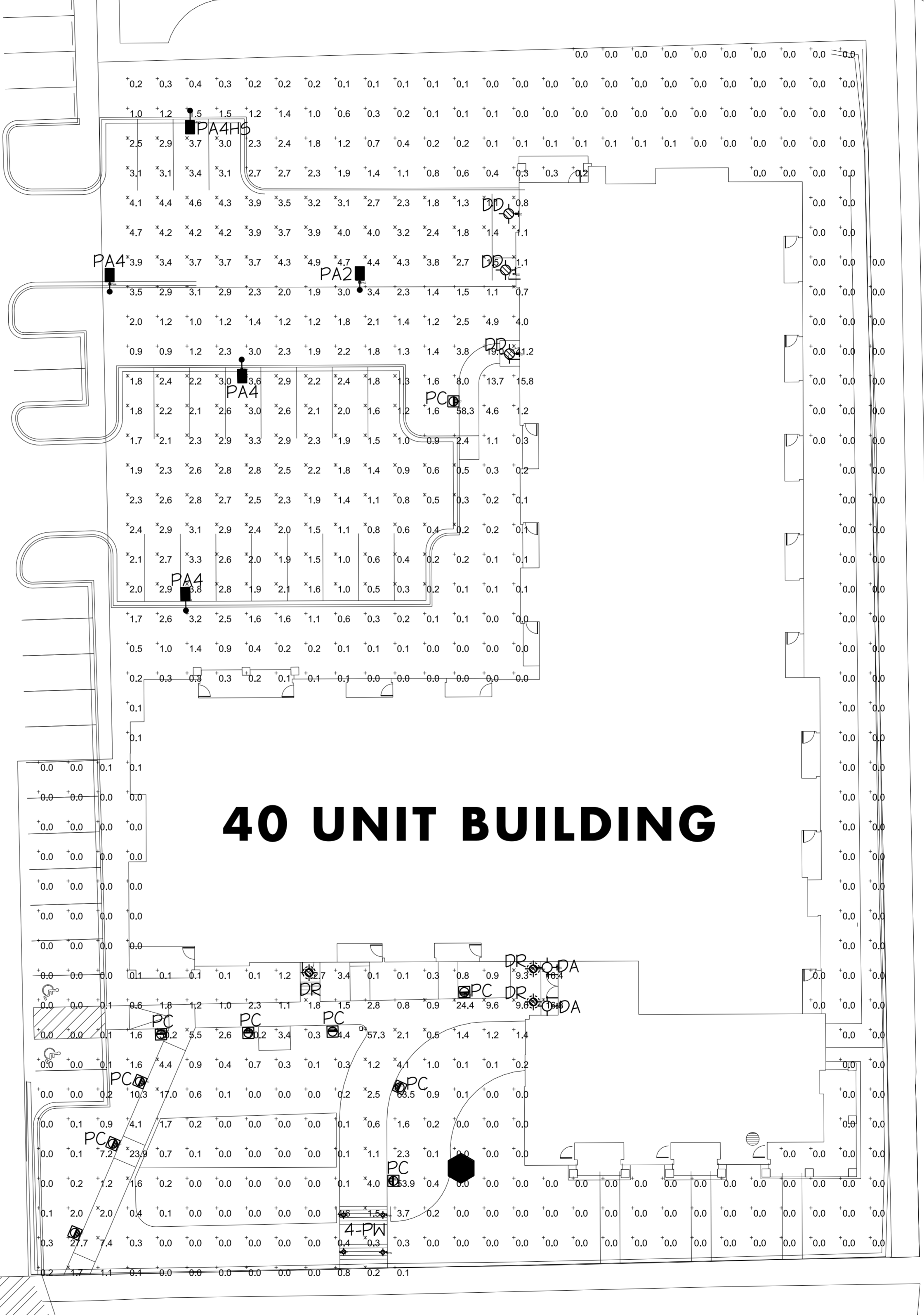
90 CRI Color Metric Summary - 3500K*



* Color values are based on 61WDWB reflector, other finishes and field results may vary.

**EXISTING PIUS X
CHURCH AND
GRADE SCHOOL**

LIGHT FIXTURE SCHEDULE				
Label	Catalog Number	Description	Lamp Lumens	Watts
DA	SFW041409L30ENBP	LED Outdoor LED Wall Lantern	506.2	10
DD	XTOR6B	CROSS TOUR 58W WALL MOUNT LED	6127.51	58
DR	HC615D010-HM612840-61MDCWF	HALO COMMERCIAL 6" ROUND	1456.87	
PC	SL1-18L4K	SITE LIGHTFORM LED	2510.692	25.9
PW	SLW-15-4K-EM	LED WALL PACK	657	6
PA2	GLEON-SA1D-730-U-T2	GALLEON AREA AND ROADWAY LUMINAIRE (1) 70 CRI	453.7232	67
PA4	GLEON-SA1D-730-U-T4W	GALLEON AREA AND ROADWAY LUMINAIRE (1) 70 CRI	459.4109	67
PA4HS	GLEON-SA1D-730-U-T4W-HSS	GALLEON AREA AND ROADWAY LUMINAIRE (1) 70 CRI, WITH HOUSE SIDE SHIELD	459.4109	67



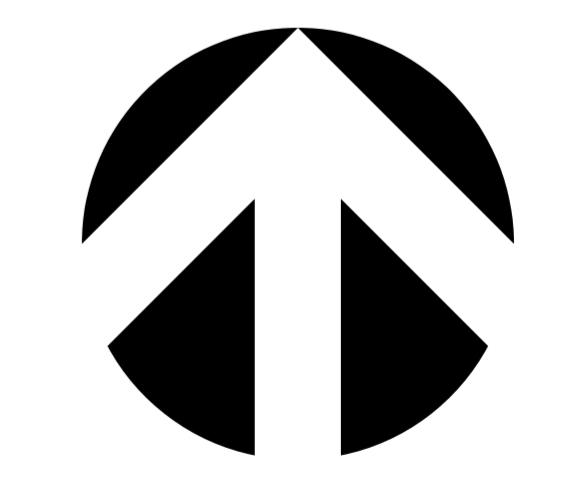
- PA SITE AREA LIGHTING - FIXTURE TYPE 'PA' SINGLE HEAD ON A SINGLE 16' HIGH STRAIGHT ALUMINUM POLE W/ CONCRETE BASE
PA2 - TYPE II OPTICS, PA3 - TYPE III OPTICS, PA4 - TYPE IV OPTICS, PA5 - TYPE V OPTICS
- PC SITE BOLLARD EGRESS LIGHTING - 42" HIGH NO VISIBLE LED LAMPING, PATHWAY SPREAD OPTIC W/ EMERGENCY BATTERY BACKUP W/ CONCRETE BASE
- PW WALL SURFACE MOUNTED EGRESS LIGHTING 42" HIGH ALUMINUM BOLLARD, NO VISIBLE LED LAMPING PHOTO-CELL ON / OFF CONTROL
- DA WALL SURFACE MOUNTED DECO ENTRY, ADA COMPLIANT PHOTO-CELL ON / OFF CONTROL C.L. LOCATE AT 66" A.F.F.
- DD WALL SURFACE MOUNTED AREA FLOOD/EGRESS LIGHTING COMPLETE CUTOFF FORWARD OPTICS EMERGENCY BATTERY PACK, PHOTO-CELL ON / OFF CONTROL MOUNT AT 8'-6" ABOVE FINISH GRADE
- DR 6" DIA. RECESSED SHALLOW DOWNLIGHT W/ EMERGENCY BATTERY PACK WIDE OPTICS, BLACK BAFFLE REFLECTOR, NET LABEL, 1500 LUMENS PHOTO-CELL ON/OFF CONTROL INCLUDED TO CO-ORDONATE WITH EMER. BAT.
- SIGHT MONUMENT SIGN
INTERNAL LIGHTING
DESIGN AND POWER REQUIREMENTS BY SIGN CONTRACTOR
E.C. TO PROVIDE 3/4" UNDERGROUND CONDUIT AND W/ J-BOW A.F.G.
PHOTO-CELL ON/OFF CONTROL

N. 74TH STREET	Overall Average	1.8 fc	
	Maximum	70.2 fc	
	Minimum	0.0 fc	
	Max/Min	N/A	
	Average/Min	N/A	
	Parking - North Average	3.2 fc	Walkway - north Average 41.2 fc
	Maximum	4.9 fc	Maximum 41.2 fc
	Minimum	0.7 fc	Minimum 41.2 fc
	Max/Min	7.0:1	Max/Min 1.0:1
	Average/Min	4.6:1	Average/Min 1.0:1
	Parking - South Average	1.9 fc	Walkway - South Average 6.5 fc
	Maximum	3.8 fc	Maximum 24.4 fc
	Minimum	0.2 fc	Minimum 0.2 fc
	Max/Min	19.0:1	Max/Min 122.0:1
	Average/Min	9.5:1	Average/Min 32.5:1

40 UNIT BUILDING

W. WRIGHT STREET

1" = 20.00' **SITE LIGHTING PHOTOMETRICS PLAN**
Le Bon Vivant
Wauwatosa, Wisconsin



04 Nov 2020

lbov
Architecture
1414 UNDERWOOD AVE.
WAUWATOSA, WI 53213
414.431.3131 TEL
414.431.0531 FAX
WWW.AGARCH.COM

Project		Catalog #		Type	PA2/PA4/PA4HS
Prepared by		Notes		Date	



McGraw-Edison

GLEON Galleon

Area / Site Luminaire

Typical Applications

Outdoor • Parking Lots • Walkways • Roadways • Building Areas

Interactive Menu

- Ordering Information [page 2](#)
- Mounting Details [page 3](#)
- Optical Distributions [page 4](#)
- Product Specifications [page 4](#)
- Energy and Performance Data [page 4](#)
- Control Options [page 9](#)

Product Certifications



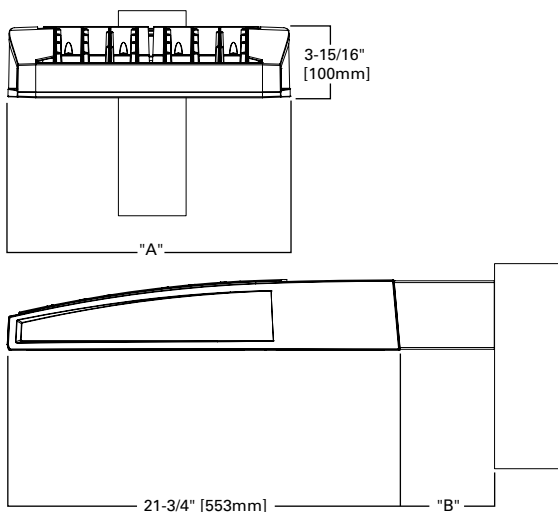
Product Features



Quick Facts

- Lumen packages range from 4,200 - 80,800 (34W - 640W)
- Efficacy up to 156 lumens per watt

Dimensional Details



Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Extended Arm Length ¹	"B" Quick Mount Arm Length	"B" Quick Mount Extended Arm Length
1-4	15-1/2"	7"	10"	10-5/8"	16-9/16"
5-6	21-5/8"	7"	10"	10-5/8"	16-9/16"
7-8	27-5/8"	7"	13"	10-5/8"	--
9-10	33-3/4"	7"	16"	--	--


NOTES:
For arm selection requirements and additional line art, see Mounting Details section.

Ordering Information

SAMPLE NUMBER: GLEON-SA4C-740-U-T4FT-GM

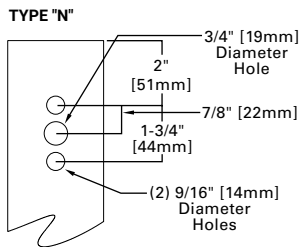
Product Family ^{1,2}	Light Engine		Color Temperature	Voltage	Distribution	Mounting	Finish
	Configuration	Drive Current					
GLEON=Galleon	SA1=1 Square SA2=2 Squares SA3=3 Squares SA4=4 Squares SA5=5 Squares ⁴ SA6=6 Squares SA7=7 Squares ³ SA8=8 Squares ³ SA9=9 Squares ⁶ SA0=10 Squares ⁶	A=600mA B=800mA C=1000mA D=1200mA ¹⁶	722=70CRI, 2200K 727=70CRI, 2700K 730=70CRI, 3000K 735=70CRI, 3500K 740=70CRI, 4000K 750=70CRI, 5000K 760=70CRI, 6000K 827=80CRI, 2700K 830=80CRI, 3000K AMB=Amber, 590nm ^{14,16}	U=120-277V 1=120V 2=208V 3=240V 4=277V 8=480V ^{7,8} 9=347V ⁷	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	[Blank]=Arm for Round or Square Pole EA=Extended Arm ⁹ MA=Mast Arm Adapter ¹⁰ WM=Wall Mount QM=Quick Mount Arm (Standard Length) ¹¹ QMEA=Quick Mount Arm (Extended Length) ¹²	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
Options (Add as Suffix)			Controls and Systems Options (Add as Suffix)		Accessories (Order Separately)		
<p>DIM=External 0-10V Dimming Leads^{19,20} F=Single Fuse (120, 277 or 347V Specify Voltage) FF=Double Fuse (208, 240 or 480V Specify Voltage) 20K=20KV UL 1449 fused surge protective device 2L=Two Circuits^{17,18} HA=50°C High Ambient HSS=Installed House Side Shield²⁸ GRSBK=Glare Reducing Shield, Black²³ GRSWH=Glare Reducing Shield, White²³ LCP=Light Square Trim Painted to Match Housing²⁷ MT=Installed Mesh Top TH=Tool-less Door Hardware CC=Coastal Construction finish³ L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right CE=CE Marking²⁹ AHD145=After Hours Dim, 5 Hours²² AHD245=After Hours Dim, 6 Hours²² AHD255=After Hours Dim, 7 Hours²² AHD355=After Hours Dim, 8 Hours²² DALI=DALI Drivers</p>			<p>BPC=Button Type Photocontrol PR=NEMA 3-PIN Photocontrol Receptacle PR7=NEMA 7-PIN Photocontrol Receptacle²¹ MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height²⁴ MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height²⁴ MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height²⁴ MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height^{24,25} MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height^{24,25} MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height^{24,25} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height²⁴ MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height²⁴ ZW=WaveLinX Module and 4-PIN Receptacle ZD=WaveLinX Module with DALI driver and 4-PIN Receptacle SWPD4XX=WaveLinX Sensor Only, 7'-15'^{13,32,33} SWPD5XX=WaveLinX Sensor Only, 15'-40'^{13,32,33} WOBXX=WaveLinX Sensor with Bluetooth, 7'-15'^{13,32} WOFXX=WaveLinX Sensor with Bluetooth, 15'-40'^{13,32} LWR-LW=Enlightened Sensor, 8'-16' Mounting Height²⁶ LWR-LN=Enlightened Sensor, 16'-40' Mounting Height²⁶ DIM10-MS/DIM-L08=Synapse Occupancy Sensor (<8' Mounting)¹⁹ DIM10-MS/DIM-L20=Synapse Occupancy Sensor (9'-20' Mounting)¹⁹ DIM10-MS/DIM-L40=Synapse Occupancy Sensor (21'-40' Mounting)¹⁹</p>		<p>OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=120V Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor²⁴ GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares GLEON-QM=Quick Mount Arm Kit¹¹ GLEON-QMEA=Quick Mount Extended Arm Kit¹² LS/HSS=Field Installed House Side Shield^{28,30} LS/GRSBK=Glare Reducing Shield, Black^{23,30} LS/GRSWH=Glare Reducing Shield, White^{23,30} LS/PFS=Perimeter Shield, Black¹⁵ WOLC-7P-10A=WaveLinX Outdoor Control Module^{19,31} SWPD4-XX=WaveLinX Wireless Sensor, 7'-15' Mounting Height^{13,19,32,33} SWPD5-XX=WaveLinX Wireless Sensor, 15'-40' Mounting Height^{13,19,32,33}</p>		
<p>NOTES:</p> <ol style="list-style-type: none"> Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WPS13001EN for additional support information. DesignLights Consortium[®] Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. Not available with TH option. Not compatible with MS/4-LXX or MS/1-LXX sensors. Not compatible with extended quick mount arm (QMEA) or extended quick mount arm (QMEA). Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA). Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A. 480V must utilize Wye system only. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems.) May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table. Factory installed. Maximum 8 light squares. Maximum 6 light squares. Requires ZW or ZD receptacle. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option. Set of 4 pcs. One set required per Light Square. Not available with HA option. 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in SA2 through SA4 requires a larger housing, normally used for SA5 or SA6. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. Not available with Enlightened wireless sensors. Cannot be used with other control options. Low voltage control lead brought out 18" outside fixture. Not available if any "MS" sensor is selected. Motion sensor has an integral photocell. Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information. Not for use with T4FT, T4W or SL4 optics. See IES files for details. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information. Replace X with number of Light Squares operating in low output mode. Enlightened wireless sensors are factory installed only requiring network components LWP-EM-1, LWP-GW-1 and LWP-PoE8 in appropriate quantities. Not available with house side shield (HSS). Not for use with 5NQ, 5MQ, 5WQ or RW optics. A black trim plate is used when HSS is selected. CE is not available with the LWR, MS, MS/X, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only. One required for each Light Square. Requires PR7. Replace XX with sensor color (WH, BZ or BK.) WAC Gateway required to enable field-configurable: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. 							

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

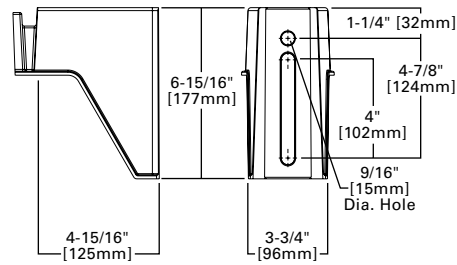
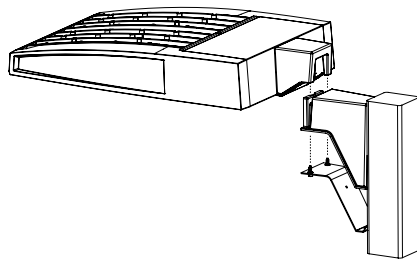
Product Family	Camera Type	Data Backhaul
<p>L=LumenSafe Technology</p> 	<p>D=Standard Dome Camera H=Hi-Res Dome Camera Z=Remote PTZ Camera</p>	<p>C=Cellular, No SIM A=Cellular, AT&T V=Cellular, Verizon S=Cellular, Sprint</p> <p>R=Cellular, Rogers W=Wi-Fi Networking w/ Omni-Directional Antenna E=Ethernet Networking</p>

Mounting Details

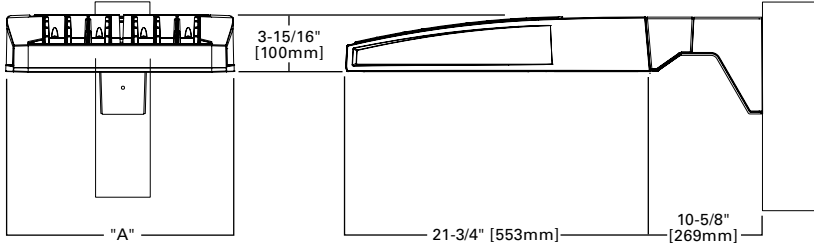
Standard Arm (Drilling Pattern)



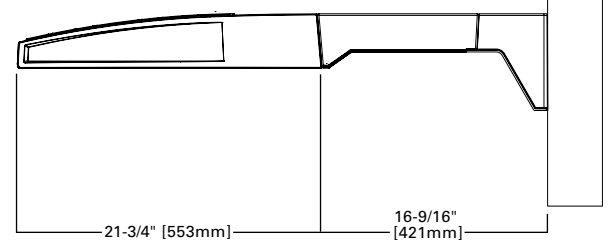
Quick Mount Arm (Includes fixture adapter)



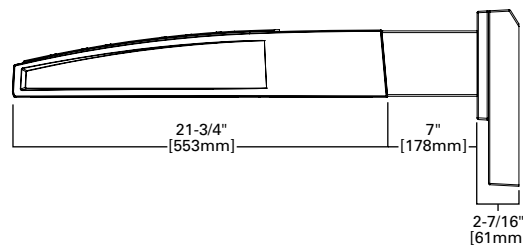
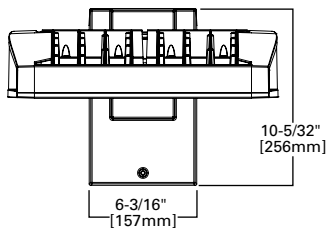
QM Quick Mount Arm (Standard)



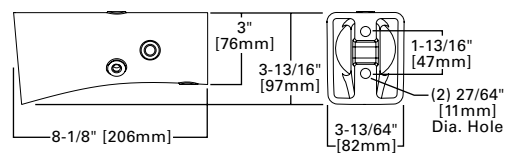
QMEA Quick Mount Arm (Extended)



Standard Wall Mount

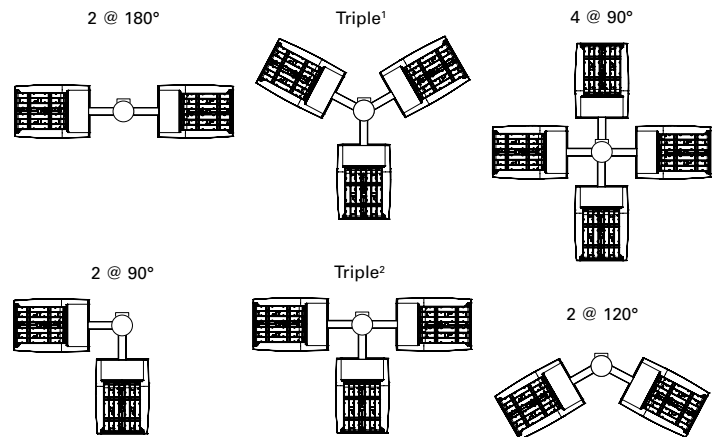


Mast Arm Mount



Arm Mounting Requirements

Number of Light Squares	Standard Arm @ 90° Apart	Standard Arm @ 120° Apart	Quick Mount Arm @ 90° Apart	Quick Mount Arm @ 120° Apart
1	Standard	Standard	QM Extended	Quick Mount
2	Standard	Standard	QM Extended	Quick Mount
3	Standard	Standard	QM Extended	Quick Mount
4	Standard	Standard	QM Extended	Quick Mount
5	Extended	Standard	QM Extended	Quick Mount
6	Extended	Standard	QM Extended	Quick Mount
7	Extended	Extended	--	Quick Mount
8	Extended	Extended	--	Quick Mount
9	Extended	Extended	--	--
10	Extended	Extended	--	--

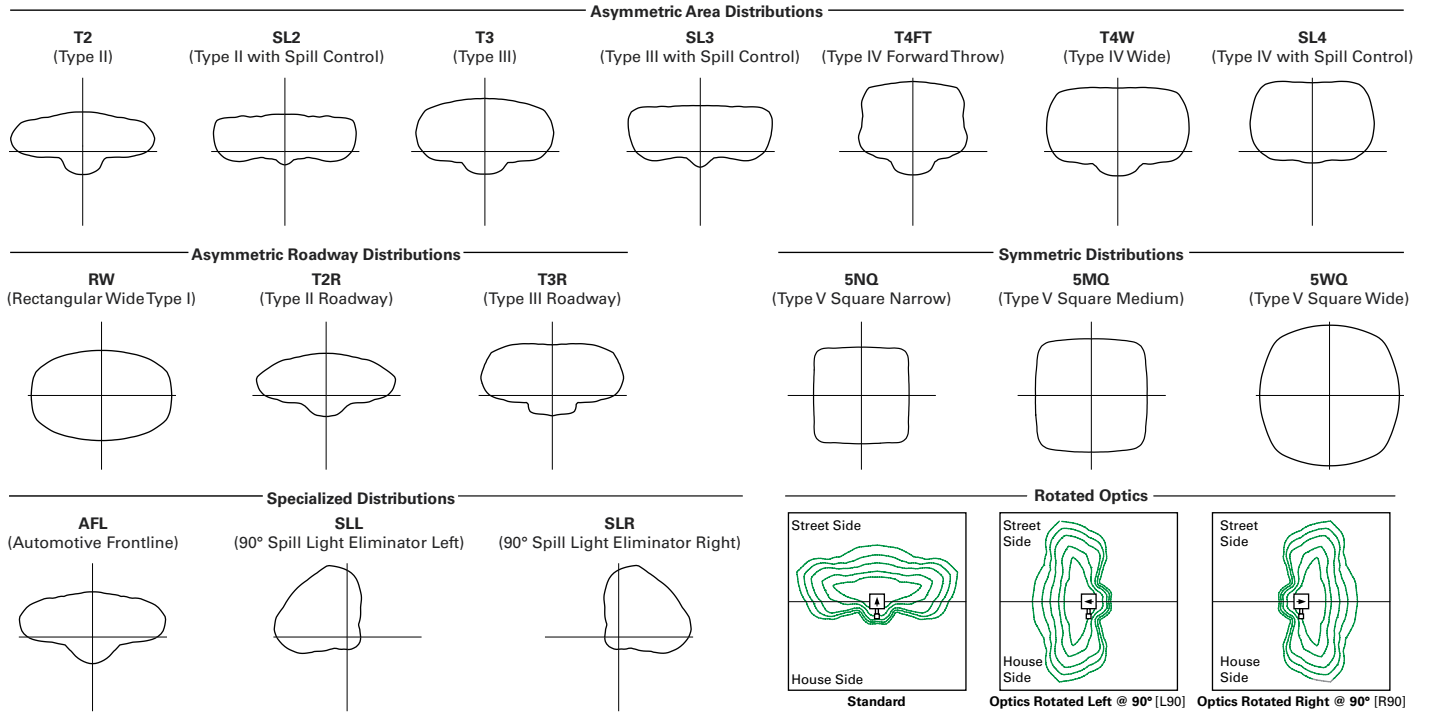


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

Fixture Weights and EPAs

Number of Light Squares	Weight with Standard and Extended Arm (lbs.)	EPA with Standard and Extended Arm (Sq. Ft.)	Weight with Quick Mount Arm (lbs.)	EPA with Quick Mount Arm (Sq. Ft.)	Weight with Quick Mount Extended Arm (lbs.)	EPA with Quick Mount Extended Arm (Sq. Ft.)
1-4	33	0.96	35	1.11	38	1.11
5-6	44	1.00	46	1.11	49	1.11
7-8	54	1.07	56	1.11	--	--
9-10	63	1.12	--	--	--	--

Optical Distributions



Product Specifications

Construction

- Extruded aluminum driver enclosure
- Heavy-wall, die-cast aluminum end caps
- Die-cast aluminum heat sinks
- Patent pending interlocking housing and heat sink

Optics

- Patented, high-efficiency injection-molded AccuLED Optics technology
- 16 optical distributions
- 3 shielding options including HSS, GRS and PFS
- IDA Certified (3000K CCT and warmer only)

Electrical

- LED drivers are mounted to removable tray

assembly for ease of maintenance

- Standard with 0-10V dimming
- Standard with Cooper Lighting Solutions proprietary circuit module designed to withstand 10kV of transient line surge
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration.

Mounting

- Standard extruded arm includes internal bolt guides and round pole adapter
- Extended arms (EA and QMEA) may be required in 90° or 120° pole mount configurations, see arm mounting requirements table

- Mast arm (MA) factory installed

- Wall mount (WM) option available
- Quick mount arm (QM and QMEA) includes pole adapter and factory installed fixture mount for fast installation to square or round poles

Finish

- Super housing durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Heat sink is powder coated black
- RAL and custom color matches available
- Coastal Construction (CC) option available

Warranty

- Five year warranty

Energy and Performance Data

Lumen Maintenance (TM-21)

Drive Current	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
Up to 1A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
1.2A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

* Supported by IES TM-21 standards

** Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.

View GLEON IES files

Nominal Power Lumens (1.2A)

 Supplemental Performance Guide**

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		67	129	191	258	320	382	448	511	575	640
Input Current @ 120V (A)		0.58	1.16	1.78	2.31	2.94	3.56	4.09	4.71	5.34	5.87
Input Current @ 208V (A)		0.33	0.63	0.93	1.27	1.57	1.87	2.22	2.52	2.8	3.14
Input Current @ 240V (A)		0.29	0.55	0.80	1.10	1.35	1.61	1.93	2.18	2.41	2.71
Input Current @ 277V (A)		0.25	0.48	0.70	0.96	1.18	1.39	1.69	1.90	2.09	2.36
Input Current @ 347V (A)		0.20	0.39	0.57	0.78	0.96	1.15	1.36	1.54	1.72	1.92
Input Current @ 480V (A)		0.15	0.30	0.43	0.60	0.73	0.85	1.03	1.16	1.28	1.45
Optics											
T2	4000K Lumens	7,972	15,580	23,245	30,714	38,056	45,541	53,857	61,024	68,072	75,366
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	119	121	122	119	119	119	120	119	118	118
T2R	4000K Lumens	8,462	16,539	24,680	32,609	40,401	48,348	57,176	64,783	72,266	80,010
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	128	129	126	126	127	128	127	126	125
T3	4000K Lumens	8,125	15,879	23,693	31,307	38,787	46,417	54,893	62,197	69,381	76,818
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	121	123	124	121	121	122	123	122	121	120
T3R	4000K Lumens	8,306	16,232	24,220	32,001	39,651	47,447	56,114	63,580	70,924	78,523
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	124	126	127	124	124	124	125	124	123	123
T4FT	4000K Lumens	8,173	15,970	23,831	31,488	39,014	46,686	55,212	62,558	69,783	77,261
	BUG Rating	B1-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	122	124	125	122	122	122	123	122	121	121
T4W	4000K Lumens	8,067	15,764	23,522	31,080	38,510	46,082	54,499	61,751	68,881	76,263
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	120	122	123	120	120	121	122	121	120	119
SL2	4000K Lumens	7,958	15,552	23,206	30,662	37,989	45,462	53,763	60,920	67,952	75,235
	BUG Rating	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	119	121	121	119	119	119	120	119	118	118
SL3	4000K Lumens	8,124	15,877	23,690	31,302	38,784	46,410	54,885	62,189	69,372	76,805
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	121	123	124	121	121	121	123	122	121	120
SL4	4000K Lumens	7,719	15,085	22,510	29,741	36,850	44,097	52,148	59,089	65,913	72,977
	BUG Rating	B1-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	115	117	118	115	115	115	116	116	115	114
5NQ	4000K Lumens	8,380	16,375	24,436	32,287	40,003	47,870	56,610	64,144	71,552	79,221
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	125	127	128	125	125	125	126	126	124	124
5MQ	4000K Lumens	8,534	16,676	24,885	32,881	40,739	48,752	57,653	65,326	72,868	80,679
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	127	129	130	127	127	128	129	128	127	126
5WQ	4000K Lumens	8,556	16,723	24,951	32,968	40,847	48,881	57,808	65,499	73,063	80,894
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	128	130	131	128	128	128	129	128	127	126
SLL/SLR	4000K Lumens	7,140	13,951	20,817	27,506	34,081	40,783	48,231	54,649	60,959	67,492
	BUG Rating	B1-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	107	108	109	107	107	107	108	107	106	105
RW	4000K Lumens	8,304	16,228	24,215	31,994	39,641	47,437	56,100	63,566	70,907	78,504
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	124	126	127	124	124	124	125	124	123	123
AFL	4000K Lumens	8,335	16,287	24,302	32,110	39,784	47,610	56,303	63,796	71,163	78,790
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5
	Lumens per Watt	124	126	127	124	124	124	125	126	125	123

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

Nominal Power Lumens (1A)

 Supplemental Performance Guide**

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		59	113	166	225	279	333	391	445	501	558
Input Current @ 120V (A)		0.51	1.02	1.53	2.03	2.55	3.06	3.56	4.08	4.60	5.07
Input Current @ 208V (A)		0.29	0.56	0.82	1.11	1.37	1.64	1.93	2.19	2.46	2.75
Input Current @ 240V (A)		0.26	0.48	0.71	0.96	1.19	0.41	1.67	1.89	2.12	2.39
Input Current @ 277V (A)		0.23	0.42	0.61	0.83	1.03	1.23	1.45	1.65	1.84	2.09
Input Current @ 347V (A)		0.17	0.32	0.50	0.64	0.82	1.00	1.14	1.32	1.50	1.68
Input Current @ 480V (A)		0.14	0.24	0.37	0.48	0.61	0.75	0.91	0.99	1.12	1.28
Optics											
T2	4000K Lumens	7,267	14,201	21,190	28,000	34,692	41,515	49,096	55,627	62,053	68,703
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	123	126	128	124	124	125	126	125	124	123
T2R	4000K Lumens	7,715	15,077	22,497	29,725	36,829	44,073	52,122	59,056	65,876	72,937
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	133	136	132	132	132	133	133	131	131
T3	4000K Lumens	7,408	14,475	21,598	28,539	35,358	42,313	50,039	56,698	63,246	70,024
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	128	130	127	127	127	128	127	126	125
T3R	4000K Lumens	7,571	14,798	22,078	29,172	36,145	43,253	51,153	57,959	64,653	71,581
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	128	131	133	130	130	130	131	130	129	128
T4FT	4000K Lumens	7,451	14,559	21,725	28,703	35,564	42,558	50,330	57,027	63,613	70,430
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	129	131	128	127	128	129	128	127	126
T4W	4000K Lumens	7,354	14,371	21,442	28,333	35,105	42,007	49,681	56,291	62,792	69,521
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	127	129	126	126	126	127	126	125	125
SL2	4000K Lumens	7,254	14,178	21,155	27,951	34,631	41,443	49,011	55,533	61,944	68,584
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	123	125	127	124	124	124	125	125	124	123
SL3	4000K Lumens	7,406	14,474	21,596	28,534	35,355	42,307	50,033	56,690	63,237	70,014
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	128	130	127	127	127	128	127	126	125
SL4	4000K Lumens	7,037	13,751	20,519	27,112	33,592	40,198	47,538	53,864	60,087	66,524
	BUG Rating	B1-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	119	122	124	120	120	121	122	121	120	119
5NQ	4000K Lumens	7,640	14,928	22,275	29,431	36,465	43,637	51,606	58,472	65,226	72,218
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	129	132	134	131	131	131	132	131	130	129
5MQ	4000K Lumens	7,779	15,203	22,684	29,973	37,137	44,441	52,555	59,549	66,427	73,545
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	132	135	137	133	133	133	134	134	133	132
5WQ	4000K Lumens	7,800	15,243	22,744	30,052	37,236	44,560	52,697	59,708	66,603	73,742
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	132	135	137	134	133	134	135	134	133	132
SLL/SLR	4000K Lumens	6,510	12,719	18,977	25,075	31,067	37,176	43,967	49,817	55,569	61,525
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	110	113	114	111	111	112	112	112	111	110
RW	4000K Lumens	7,570	14,793	22,073	29,165	36,137	43,243	51,140	57,945	64,637	71,564
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	128	131	133	130	130	130	131	130	129	128
AFL	4000K Lumens	7,598	14,847	22,154	29,272	36,267	43,400	51,326	58,156	64,872	71,824
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4
	Lumens per Watt	129	131	133	130	130	130	131	131	129	129

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

Nominal Power Lumens (800mA)

 Supplemental Performance Guide**

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		44	85	124	171	210	249	295	334	374	419
Input Current @ 120V (A)		0.39	0.77	1.13	1.54	1.90	2.26	2.67	3.03	3.39	3.80
Input Current @ 208V (A)		0.22	0.44	0.62	0.88	1.06	1.24	1.50	1.68	1.87	2.12
Input Current @ 240V (A)		0.19	0.38	0.54	0.76	0.92	1.08	1.30	1.46	1.62	1.84
Input Current @ 277V (A)		0.17	0.36	0.47	0.72	0.83	0.95	1.19	1.31	1.42	1.67
Input Current @ 347V (A)		0.15	0.24	0.38	0.49	0.63	0.77	0.87	1.01	1.15	1.52
Input Current @ 480V (A)		0.11	0.18	0.29	0.37	0.48	0.59	0.66	0.77	0.88	0.96
Optics											
T2	4000K Lumens	5,871	11,474	17,121	22,622	28,029	33,542	39,667	44,944	50,134	55,508
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	133	135	138	132	133	135	134	135	134	132
T2R	4000K Lumens	6,233	12,181	18,176	24,016	29,756	35,608	42,111	47,714	53,224	58,929
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5
	Lumens per Watt	142	143	147	140	142	143	143	143	142	141
T3	4000K Lumens	5,986	11,695	17,450	23,057	28,568	34,186	40,430	45,809	51,099	56,576
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	136	138	141	135	136	137	137	137	137	135
T3R	4000K Lumens	6,117	11,955	17,838	23,569	29,203	34,946	41,328	46,827	52,235	57,832
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	139	141	144	138	139	140	140	140	140	138
T4FT	4000K Lumens	6,019	11,763	17,551	23,190	28,734	34,384	40,663	46,074	51,396	56,904
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	137	138	142	136	137	138	138	138	137	136
T4W	4000K Lumens	5,942	11,610	17,324	22,891	28,363	33,940	40,138	45,480	50,732	56,169
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	135	137	140	134	135	136	136	136	136	134
SL2	4000K Lumens	5,862	11,454	17,091	22,583	27,980	33,484	39,598	44,867	50,048	55,411
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	133	135	138	132	133	134	134	134	134	132
SL3	4000K Lumens	5,985	11,694	17,447	23,053	28,565	34,182	40,424	45,804	51,092	56,568
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	136	138	141	135	136	137	137	137	137	135
SL4	4000K Lumens	5,685	11,111	16,577	21,905	27,140	32,478	38,409	43,520	48,546	53,748
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	129	131	134	128	129	130	130	130	130	128
5NQ	4000K Lumens	6,172	12,061	17,997	23,778	29,462	35,256	41,694	47,242	52,699	58,347
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	140	142	145	139	140	142	141	141	141	139
5MQ	4000K Lumens	6,285	12,283	18,328	24,217	30,004	35,907	42,462	48,112	53,669	59,421
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	143	145	148	142	143	144	144	144	144	142
5WQ	4000K Lumens	6,303	12,317	18,377	24,281	30,085	36,001	42,575	48,241	53,812	59,579
	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	143	145	148	142	143	145	144	144	144	142
SLL/SLR	4000K Lumens	5,260	10,276	15,332	20,259	25,101	30,037	35,522	40,249	44,898	49,708
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	120	121	124	118	120	121	120	121	120	119
RW	4000K Lumens	6,116	11,952	17,834	23,563	29,196	34,938	41,317	46,817	52,224	57,819
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	139	141	144	138	139	140	140	140	140	138
AFL	4000K Lumens	6,139	11,996	17,899	23,650	29,302	35,064	41,468	46,987	52,412	58,030
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4
	Lumens per Watt	140	141	144	138	140	141	141	141	140	138

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

Nominal Power Lumens (600mA)

 Supplemental Performance Guide**

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Nominal Power (Watts)	34	66	96	129	162	193	226	257	290	323	
Input Current @ 120V (A)	0.30	0.58	0.86	1.16	1.44	1.73	2.03	2.33	2.59	2.89	
Input Current @ 208V (A)	0.17	0.34	0.49	0.65	0.84	0.99	1.14	1.30	1.48	1.63	
Input Current @ 240V (A)	0.15	0.30	0.43	0.56	0.74	0.87	1.00	1.13	1.30	1.43	
Input Current @ 277V (A)	0.14	0.28	0.41	0.52	0.69	0.81	0.93	1.04	1.22	1.33	
Input Current @ 347V (A)	0.11	0.19	0.30	0.39	0.49	0.60	0.69	0.77	0.90	0.99	
Input Current @ 480V (A)	0.08	0.15	0.24	0.30	0.38	0.48	0.53	0.59	0.71	0.77	
Optics											
T2	4000K Lumens	4,787	9,357	13,961	18,448	22,856	27,353	32,347	36,651	40,884	45,265
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	141	142	145	143	141	142	143	143	141	140
T2R	4000K Lumens	5,083	9,934	14,822	19,585	24,266	29,038	34,341	38,911	43,404	48,055
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
	Lumens per Watt	150	151	154	152	150	150	152	151	150	149
T3	4000K Lumens	4,880	9,537	14,231	18,803	23,296	27,878	32,970	37,358	41,671	46,137
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	144	145	148	146	144	144	146	145	144	143
T3R	4000K Lumens	4,988	9,749	14,547	19,220	23,814	28,497	33,703	38,188	42,598	47,162
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	147	148	152	149	147	148	149	149	147	146
T4FT	4000K Lumens	4,909	9,591	14,312	18,911	23,432	28,040	33,161	37,574	41,913	46,404
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	144	145	149	147	145	145	147	146	145	144
T4W	4000K Lumens	4,845	9,468	14,128	18,668	23,130	27,678	32,732	37,088	41,371	45,805
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	143	143	147	145	143	143	145	144	143	142
SL2	4000K Lumens	4,779	9,341	13,937	18,416	22,818	27,305	32,292	36,589	40,813	45,188
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	141	142	145	143	141	141	143	142	141	140
SL3	4000K Lumens	4,879	9,536	14,229	18,800	23,294	27,874	32,965	37,351	41,666	46,130
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	144	144	148	146	144	144	146	145	144	143
SL4	4000K Lumens	4,637	9,059	13,519	17,863	22,132	26,486	31,322	35,490	39,589	43,831
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	136	137	141	138	137	137	139	138	137	136
5NQ	4000K Lumens	5,033	9,835	14,676	19,392	24,026	28,751	34,002	38,526	42,975	47,581
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	148	149	153	150	148	149	150	150	148	147
5MQ	4000K Lumens	5,126	10,015	14,946	19,747	24,468	29,281	34,628	39,236	43,766	48,457
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	151	152	156	153	151	152	153	153	151	150
5WQ	4000K Lumens	5,139	10,043	14,985	19,801	24,533	29,359	34,721	39,339	43,883	48,586
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	151	152	156	153	151	152	154	153	151	150
SLL/SLR	4000K Lumens	4,289	8,380	12,502	16,520	20,469	24,494	28,967	32,823	36,613	40,537
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	126	127	130	128	126	127	128	128	126	126
RW	4000K Lumens	4,987	9,746	14,543	19,215	23,808	28,491	33,695	38,178	42,587	47,151
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	147	148	151	149	147	148	149	149	147	146
AFL	4000K Lumens	5,007	9,782	14,597	19,285	23,896	28,594	33,817	38,317	42,742	47,322
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
	Lumens per Watt	147	148	152	149	148	148	150	149	147	147

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

Control Options

0-10V (DIM)

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (BPC, PR and PR7)

Optional button-type photocontrol (BPC) and photocontrol receptacles (PR and PR7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PR7 receptacle.

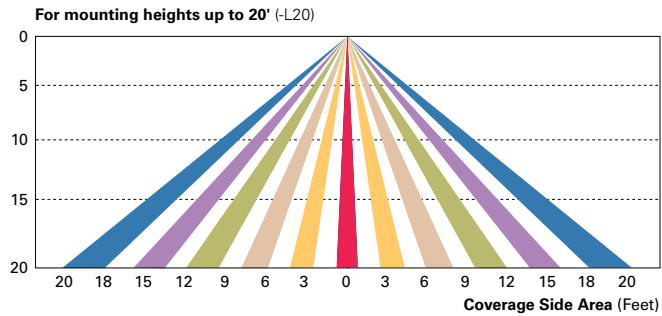
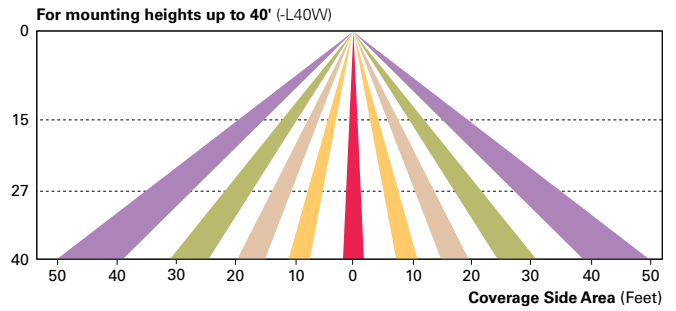
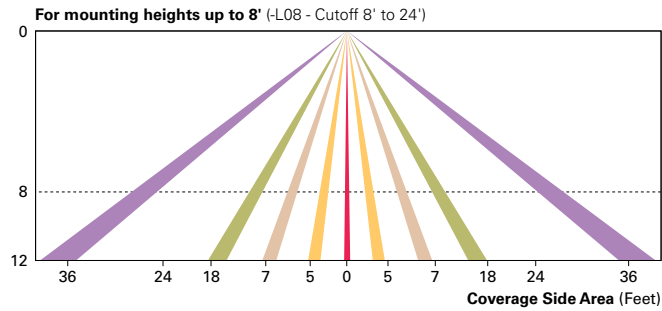
After Hours Dim (AHD)

This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

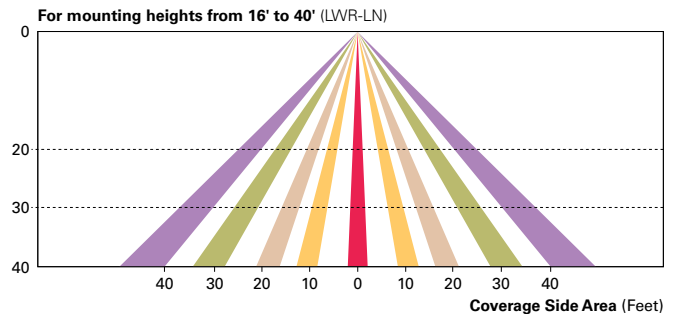
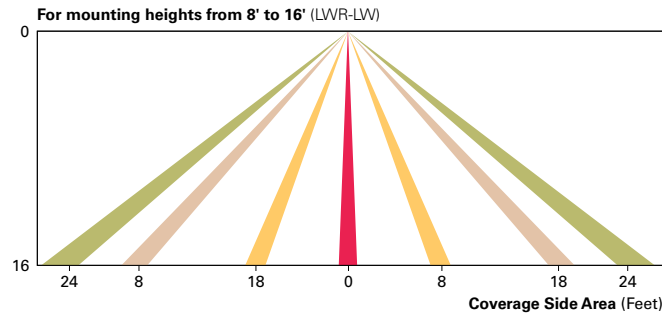
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage. pattern for mounting heights from 8'-40'.



Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)

Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.



WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

LumenSafe Integrated Network Security Camera (LD)

Cooper Lighting Solutions brings ease of camera deployment to a whole new level. No additional wiring is needed beyond providing line power to the luminaire. A variety of networking options allows security integrators to design the optimal solution for active surveillance. As the ideal solution to meet the needs for active surveillance, the LumenSafe integrated network camera is a streamlined, outdoor-ready fixed dome that provides HDTV 1080p video. This IP camera is optimally designed for deployment in the video management system or security software platform of choice.

Synapse (DIM10)

SimplySNAP integrated wireless controls system by Synapse. Includes factory installed DIM10 Synapse control module and MS/DC motion sensor; requires additional Synapse system components for operation. Contact Synapse at www.synapsewireless.com for product support, warranty and terms and conditions.

Type:
Job:
Catalog number:



Approvals:

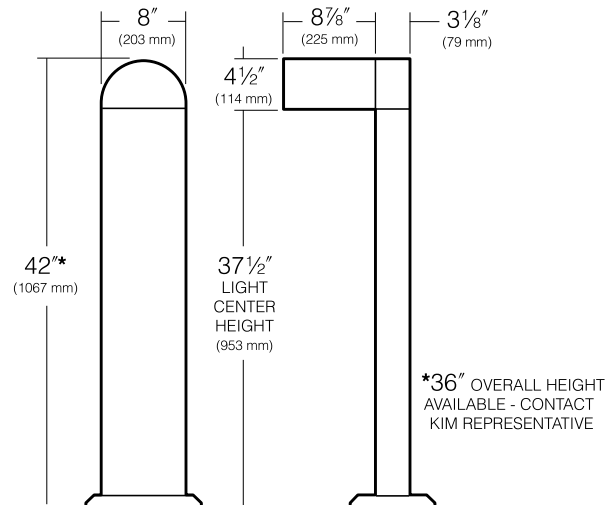
SL1	/	/	/
Fixture	Electrical Module	Finish	Options
See page 2		See page 3	

Date:
Page: 1 of 4

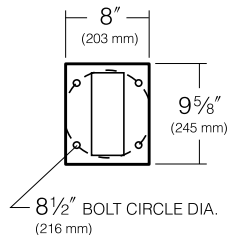
Specifications

SL1 LED

Maximum weight: 37 lb



BASE PLAN SL1



Head: One-piece cast, low-copper (<0.6% Cu) aluminum, 3/16" wall thickness with external reveal unifying head and shaft. Attachment to shaft is by four bolts concealed within the head.

Shaft: One-piece extruded aluminum with internal tracks for attaching head and base.

Base: One-piece cast, low-copper (<0.6% Cu) aluminum secured to shaft by four concealed stainless steel bolts.

Lens: Clear flat 1/8" thick tempered glass retained by two stainless steel brackets, and four stainless steel, hex socket cap screws, fully gasketed.

LED Optical System: A total of 27 mid power LED emitters configured in a rectangular array comprised together as a module. Two (2) modules for 18 version and four (4) modules for 36 version. Available in 580nm Amber, 3000K, 4200K and 5100K color temperatures.

LED Driver: Universal voltage from 120 to 277V with a ±10% tolerance. -40°F starting temperature. All drivers are Underwriters Laboratories recognized.

Anchor Bolts: Four 3/8" x 10" + 2" zinc plated L-hooks complete with leveling nuts, washers, couplings, rigid pressed board template and black stainless steel bolts.

Finish: Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat. Standard colors are Black, Dark Bronze, Light Gray, Titanium, Platinum Silver, or White. Custom colors are available and subject to additional charges, minimum quantities and longer lead times. Consult representative.

Listed to: UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2#250.0 Luminaires. RoHS compliant. Meets Buy American provisions within ARRA.

Warranty: For full warranty see <http://www.hubbellighting.com/resources/warranty>.

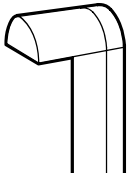
CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.



KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

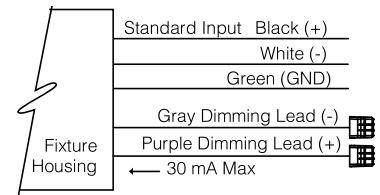
Type:

Job:



Standard Features

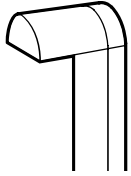
Fixture	Cat. No. SL1 Site Lightforms				
Electrical Module LED = Light Emitting Diode	Cat. Nos. for LED Electrical Modules available: <table style="width: 100%; border: none;"> <tr> <td style="text-align: center; border: none;"> xL Source: <input type="checkbox"/> 18L= 18 version <input type="checkbox"/> 36L= 36 version </td> <td style="text-align: center; border: none;"> xK Color Temperature: <input type="checkbox"/> 2K = 580nm - Amber <input type="checkbox"/> 3K = 3000K <input type="checkbox"/> 4K = 4000K <input type="checkbox"/> 5K = 5000K </td> <td style="text-align: center; border: none;"> UV Voltage: <input type="checkbox"/> UV Universal Voltage shall range from 120V-277V </td> </tr> </table>		xL Source: <input type="checkbox"/> 18L = 18 version <input type="checkbox"/> 36L = 36 version	xK Color Temperature: <input type="checkbox"/> 2K = 580nm - Amber <input type="checkbox"/> 3K = 3000K <input type="checkbox"/> 4K = 4000K <input type="checkbox"/> 5K = 5000K	UV Voltage: <input type="checkbox"/> UV Universal Voltage shall range from 120V-277V
xL Source: <input type="checkbox"/> 18L = 18 version <input type="checkbox"/> 36L = 36 version	xK Color Temperature: <input type="checkbox"/> 2K = 580nm - Amber <input type="checkbox"/> 3K = 3000K <input type="checkbox"/> 4K = 4000K <input type="checkbox"/> 5K = 5000K	UV Voltage: <input type="checkbox"/> UV Universal Voltage shall range from 120V-277V			
Finish TGIC powder coat paint	Color: Black Dark Bronze Light Gray Titanium Platinum Silver White Custom Color ¹ Cat. No.: <input type="checkbox"/> BL <input type="checkbox"/> DB <input type="checkbox"/> LG <input type="checkbox"/> TT <input type="checkbox"/> PS <input type="checkbox"/> WH <input type="checkbox"/> CC ¹ Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____				
0-10V Dimming Interface	Driver has a 0-10V dimming interface with a dimming range of 10-100%. Is compatible with most control systems including Hubbell Building Automation wiHUBB™. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV. Note: Not compatible with current sourcing dimmers. Controls compatible via Gray and Purple dimming lead.				



Type:

Job:

Page: 3 of 4



Optional Features

Battery Back-up

Cat. No. **EM**
 No Option

Internal battery pack provides 90 minutes of supplemental light at 25% of initial lamp lumens.



battery back-up

Optional Duplex Receptacle

Cat. No. **DR**
 DR-GFI
 No Option

Mounted 18" from bottom of shaft with a gasketed While-In-Use cover with locking tab. Painted to match bollard.

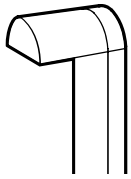
DR weather proof duplex receptacle rated 20A, 125V.

DR-GFI weather proof duplex receptacle with ground fault circuit interrupter rated 20A, 125V.

Type:

Job:

Page: 4 of 4



Lumen Data

Electrical Drive Current					
450mA					
18 Version			36 Version		
Volts - AC	Amps - AC	System Watts	Volts - AC	Amps - AC	System Watts
120	0.22	26	120	0.48	56
208	0.13	26	208	0.27	56
240	0.11	26	240	0.24	56
277	0.09	26	277	0.21	56

B.U.G. Rating for 450mA (TM15) in Lumens where B = Backlight, U = Uplight, G = Glare		
Temperature	18 VERSION	36 VERSION
3000K	B1 U0 G1	B2 U0 G1
4000K	B1 U0 G1	B2 U0 G1
5000K	B1 U0 G1	B2 U0 G1

Absolute Lumens for 450mA		
Temperature	18 VERSION	36 VERSION
3000K	2448	5058
4000K	2511	5188
5000K	2540	5247

LED performance and lumen output continues to improve at a rapid pace. Log onto www.kimlighting.com to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.

DESCRIPTION

The slim architectural SLW Series LED wallpack features integral motion detection (PIR sensor) or photocontrol only (NS model) in both "normally on" and UL 924 Listed emergency egress models. The fully gasketed die-cast enclosure is IP65 rated and UL Listed for Wet Locations. The SLW's 15 Watt LED light engine delivers 1500 lumens in AC mode and 600 lumens in emergency mode. Zero uplight optics reduce light pollution.

SPECIFICATIONS

Construction:

- Architectural die-cast aluminum housing
- Snap-fit housing to mounting plate for easy access and installation
- Universal pattern knockouts on back for mounting to 3" and 4" J-box
- ½" Threaded conduit entry for top feed
- Available in Bronze, Black, Silver or White finish

Optics/ LEDs:

- 15 Watt high-power LED light engine delivers 1500 lumens (600 lumens in emergency mode for 60' on center spacing)
- Standard 4000K CCT, CRI ≥ 70, L70 > 72,000 hours
- LED array is protected by a high-impact, UV-resistant polycarbonate lens

Electrical:

- 120-277VAC, 60Hz driver
- EM option uses long-life, maintenance-free, rechargeable high temperature NiCad battery which includes internal heater suitable for cold locations and draws an additional 17 Watts

Integral controls include:

- Standard unit: Passive infrared (PIR) motion sensor with up to 10' detection, operational from dusk to dawn. Unit will shut off after two minutes of inactivity. The light will activate in AC mode only when motion is detected. Motion sensor (PIR) and dusk to dawn operation cannot be altered
- No PIR sensor option (NS): switchable AC operation for use as dusk to dawn with included photocontrol or use of a normally open switch by disabling photocontrol

Installation:

- Ideal for mounting to any vertical surface by attaching to a 3" or 4" J-box
- Can be surface mounted using the ½" conduit entry point at top of housing

Options:

- Emergency (EM) battery back-up is UL 924 Listed to provide a minimum 90 minutes operation during a loss of power, with a 24 hour maximum recharge time for battery. Standard with self-test/ self-diagnostics as well as a heater for cold location operation to -25°C. AC power indicator and test switch are located on bottom face of the unit
- No PIR sensor option (NS) is offered without passive infrared (PIR) motion sensor, but with a photocontrol for use in dusk to dawn applications. Photocontrol can be disabled to be used as an always on or switchable fixture

Testing & Compliance:

- cULus Listed for Wet Locations, IP65 rated
- Emergency model UL 924 Listed, NFPA 70, NFPA 101
- DesignLights Consortium® (DLC) Qualified (verify QPL for specific models)
- Complies with Title 24 of the California Code of Regulations
- Operating temperatures: -25°C to 50°C (-13°F to 122°F)

Warranty:

Five Year Warranty (Terms and Conditions Apply)

Model: _____ Date: _____
 Accessories: _____
 Job Name: _____ Type: _____



Specs at a Glance*	
Wattage (W)	15 (EM model: 32)
Lumens (lm)	1500
Efficacy (LPW)	100
Equivalency	100W HID
CCT	4000K
CRI	≥ 70
Input Voltage	120-277VAC, 60Hz
Warranty	5 Years
Certifications	UL Listed for Wet Locations, DLC, UL 924, NFPA 101, Title 24
Operating Temp	-25°C to 50°C (-13°F to 122°F)
Weight	3.7 lbs (EM model: 4.5 lbs)

*Nominal Wattage

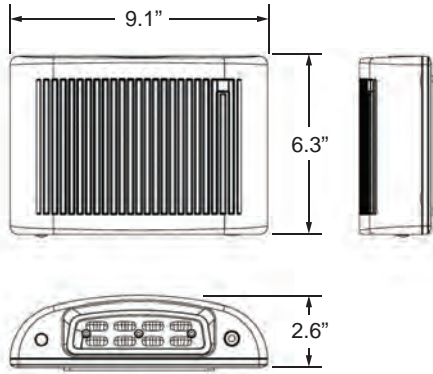
Note:

Environment and application will affect actual performance. Typical values and 25°C used for testing. Specifications subject to change without notice.

Ordering Information

Series	Wattage	CCT	Finish	Options
SLW	15 = 15W	4K = 4000K	(Blank) = Bronze BL = Black SV = Silver WH = White	EM ¹ = UL 924 Emergency battery back-up with self-test/ self-diagnostics, cold location NS = Photocontrol only (no PIR motion sensor)
Notes				
¹ EM model not DLC Qualified product				

Dimensions



Sample Photometrics

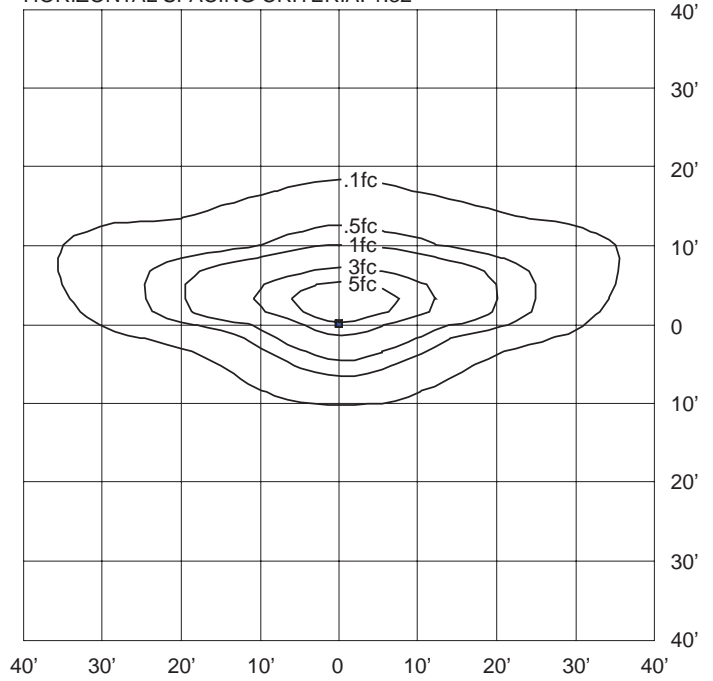
SLW-15-4K

IES: TYPE I SHORT

MOUNTING HEIGHT: 10'

TILT: ZERO

HORIZONTAL SPACING CRITERIA: 1.32



PIR Motion Sensor Detection Radius

Installation height	Rated detection radius
8'	6.5'
10'	8'
11'	10'

ON-CENTER SPACING FOR UNITS WITH "EM" OPTION

Using multiple SLW units mounted at a typical 10' height delivers 60' on center spacing with a 6' wide path of egress.

