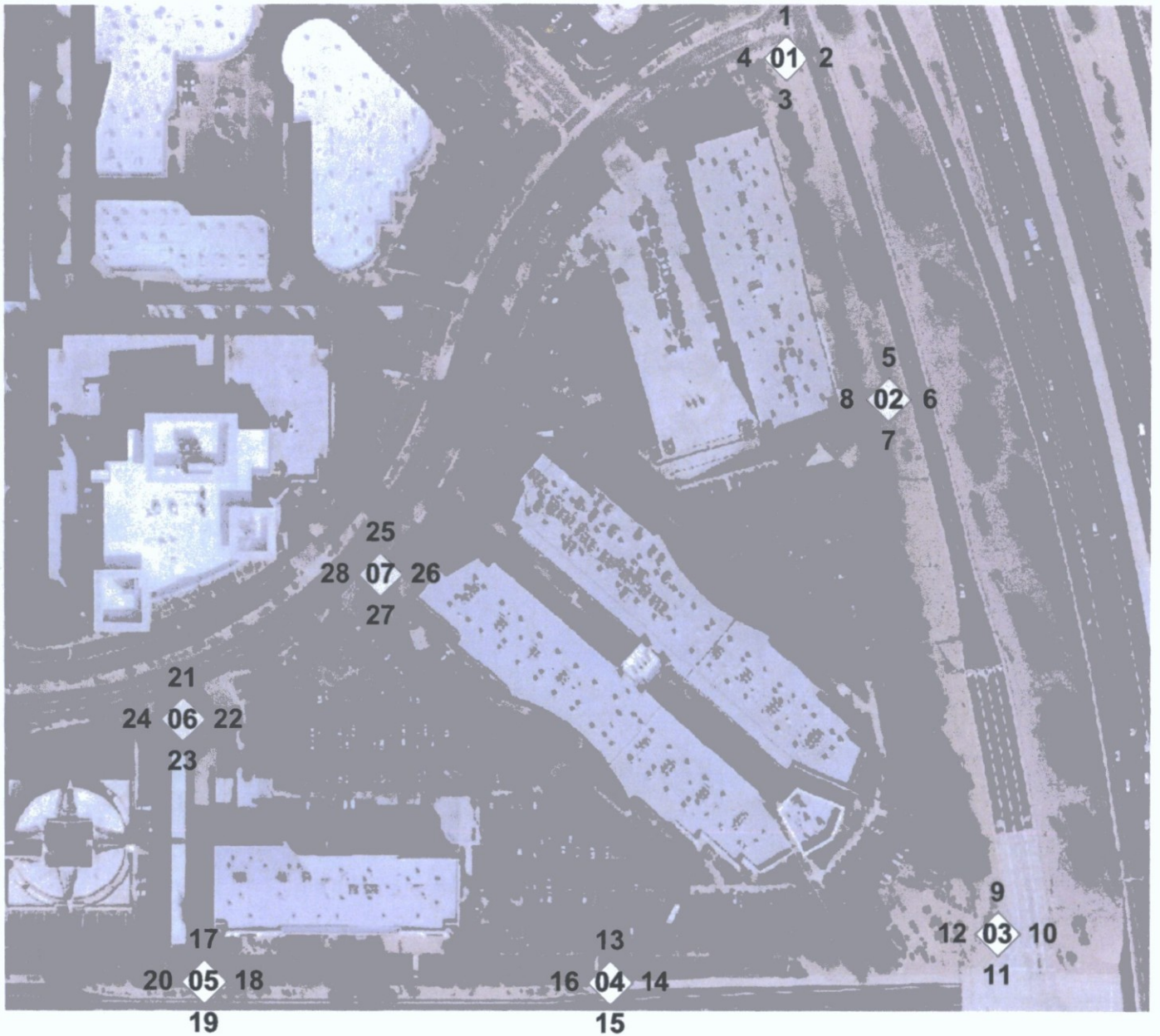


Simulations
Photos
All Graphics (no plans)



1

Context Photo Key Plan

1" = 200'-0"





1 NORTH



2 EAST

LOCATION 01
PLOT DATE: 7/20/2016 2:55:52 PM





3 SOUTH



4 WEST

LOCATION 01
PLOT DATE: 7/20/2016 2:55:53 PM





5 NORTH



6 EAST

LOCATION 02

PLOT DATE: 7/20/2016 2:55:54 PM





7 SOUTH



8 WEST

LOCATION 02

PLOT DATE: 7/20/2016 2:55:55 PM





9 NORTH



10 EAST

LOCATION 03

PLOT DATE: 7/20/2016 2:55:56 PM





11 SOUTH



12 WEST

LOCATION 03

PLOT DATE: 7/20/2016 2:55:58 PM





13 NORTH



14 EAST

LOCATION 04

PLOT DATE: 7/20/2016 2:55:59 PM





15 SOUTH



16 WEST

LOCATION 04
PLOT DATE: 7/20/2016 2:56:00 PM





17 NORTH



18 EAST

LOCATION 05

PLOT DATE: 7/20/2016 2:56:01 PM





19 SOUTH



20 WEST

LOCATION 05

PLOT DATE: 7/20/2016 2:56:02 PM





21 NORTH



22 EAST

LOCATION 06
PLOT DATE: 7/20/2016 2:56:03 PM





23 SOUTH



24 WEST

LOCATION 06
PLOT DATE: 7/20/2016 2:56:04 PM





25 NORTH



26 EAST

LOCATION 07
PLOT DATE: 7/20/2016 2:56:05 PM





27 SOUTH

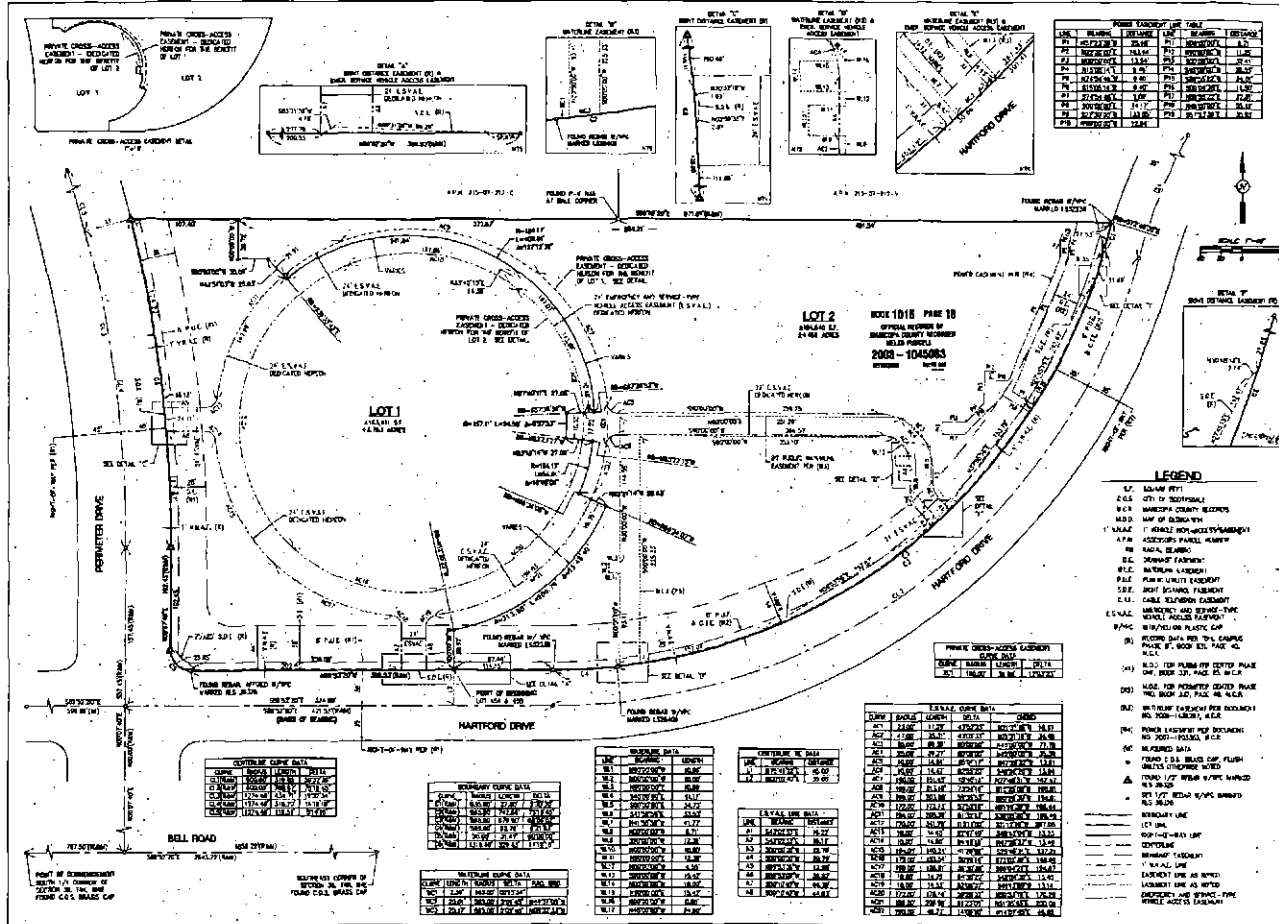


28 WEST

LOCATION 07

PLOT DATE: 7/20/2016 2:56:06 PM





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4	100	10	10/10/03	PL	ISSUED FOR PERMIT
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6	100	10	10/10/03	PL	ISSUED FOR PERMIT
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8	100	10	10/10/03	PL	ISSUED FOR PERMIT
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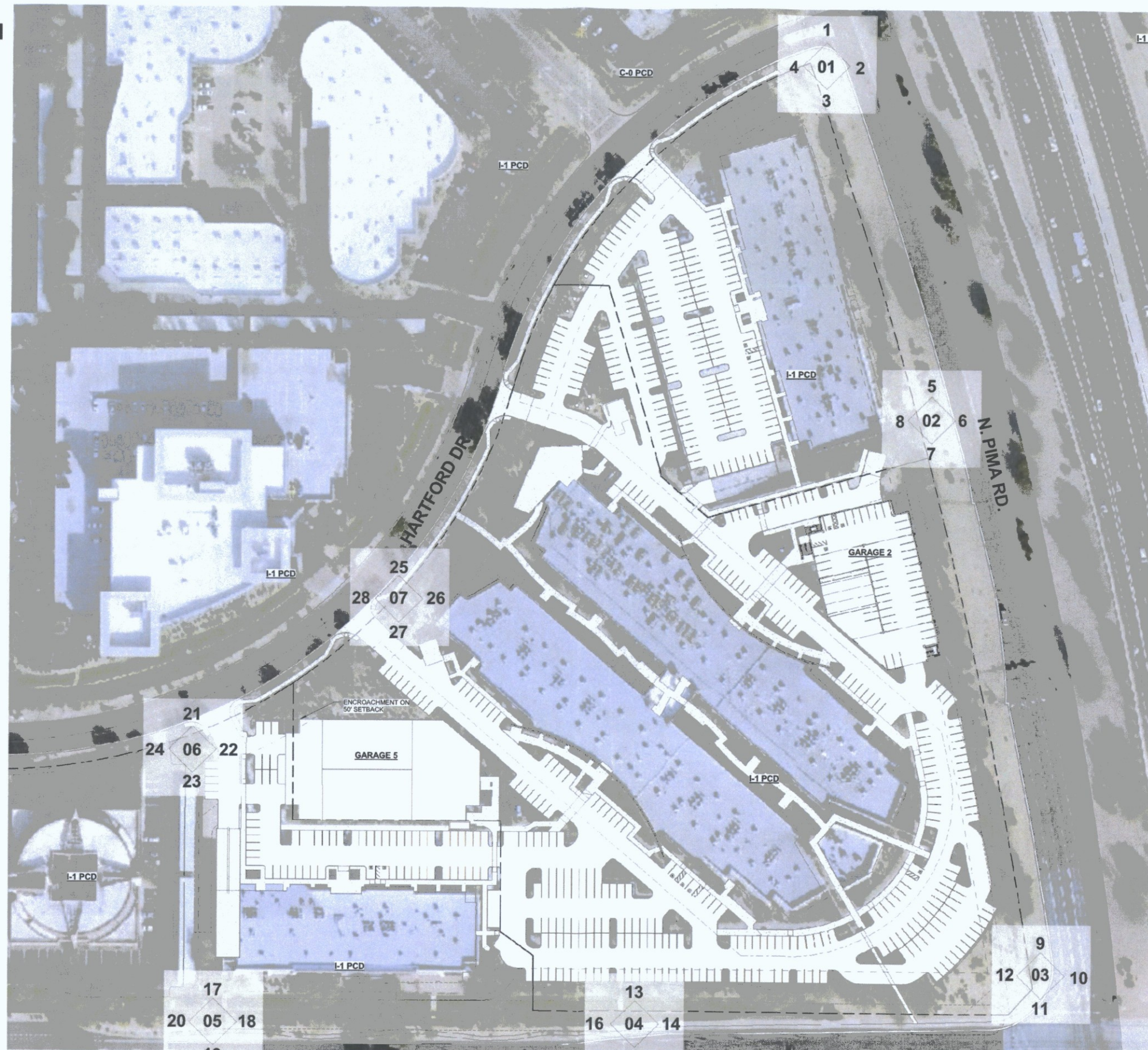
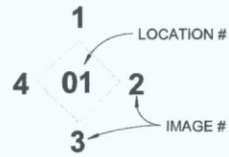
LOT 2
 AREA 12
 24 AC ACRES
 RECD 1018 PASE 10
 OFFICIAL RECORD OF
 MARICOPA COUNTY RECORDS
 2003 - 1045083
 10/10/03

- LEGEND**
- 1.7. 1/4" SCALE CITY
 - 2.6. 1/4" SCALE CITY OF TOWNSHIP
 - 3.0. 1/4" SCALE MARICOPA COUNTY RECORDS
 - 3.1. 1/4" SCALE CITY OF TOWNSHIP
 - 4.0. 1/4" SCALE 1" HORIZONTAL SCALE
 - 4.1. 1/4" SCALE 1" HORIZONTAL SCALE
 - 4.2. 1/4" SCALE 1" HORIZONTAL SCALE
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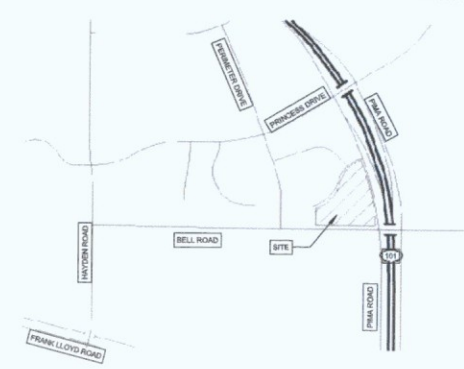
LOT 1 OF DHL CAMPUS PHASE III
 A MINOR SUBDIVISION PLAT OF LOT 1, DHL CAMPUS PHASE III, RECORDED IN BOOK 851, PAGE 44,
 RECORDS OF MARICOPA COUNTY, ARIZONA, LOCATED IN A PORTION OF THE SOUTHWEST QUARTER
 OF SECTION 36, TOWNSHIP 11 N, RANGE 11 E OF THE GILA AND SALT RIVER BASIN AND MERIDIAN
 CITY OF GILBERT, MARICOPA COUNTY, ARIZONA



SYMBOLS LEGEND

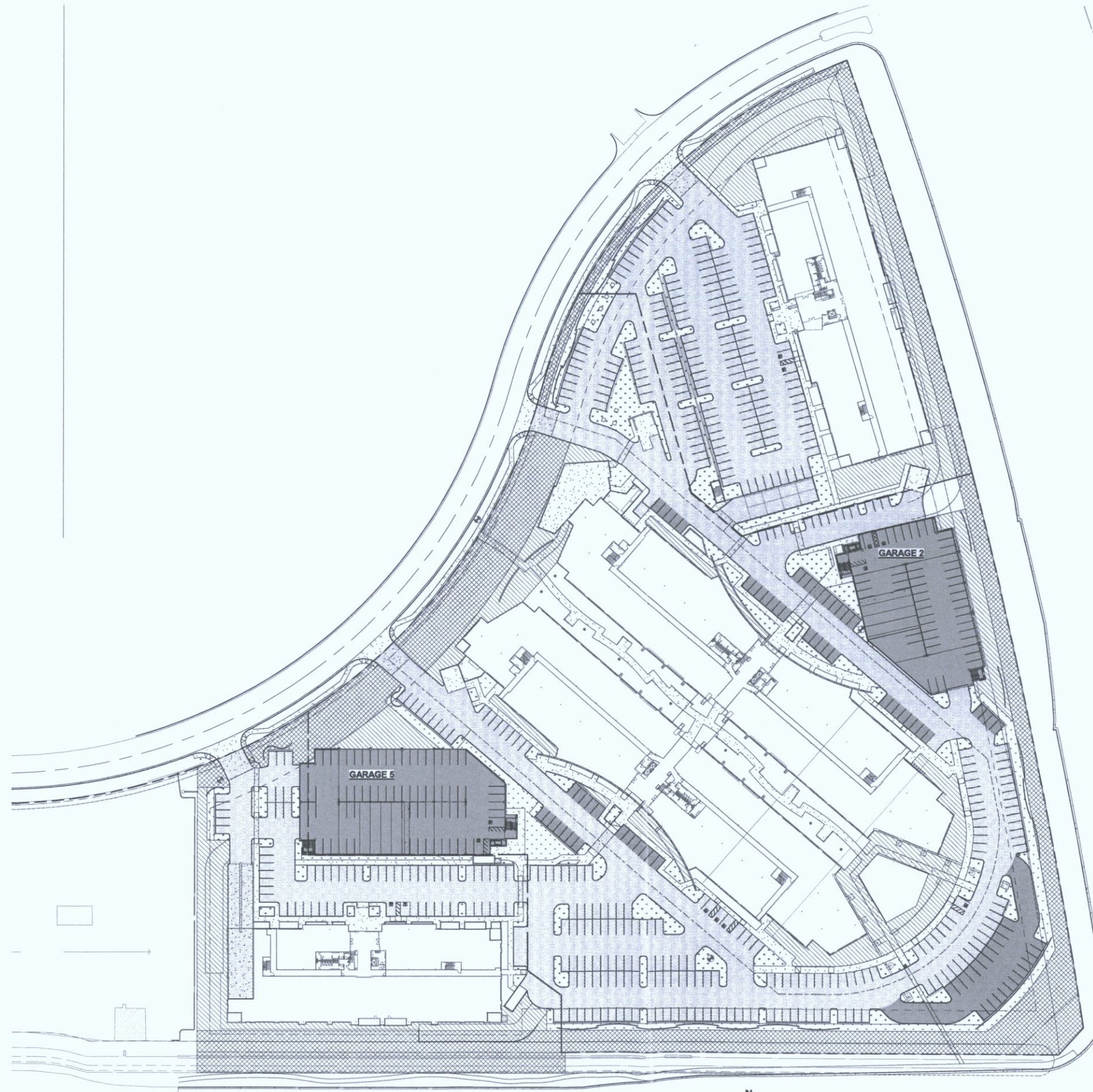


VICINITY MAP







1 Site Plan
1" = 60'-0"

CONTEXT AERIAL PLAN



OPEN SPACE LEGEND

-  OPEN SPACE
-  OPEN SPACE - FRONT
-  PARKING LOT LANDSCAPE
-  PARKING LOT AREA

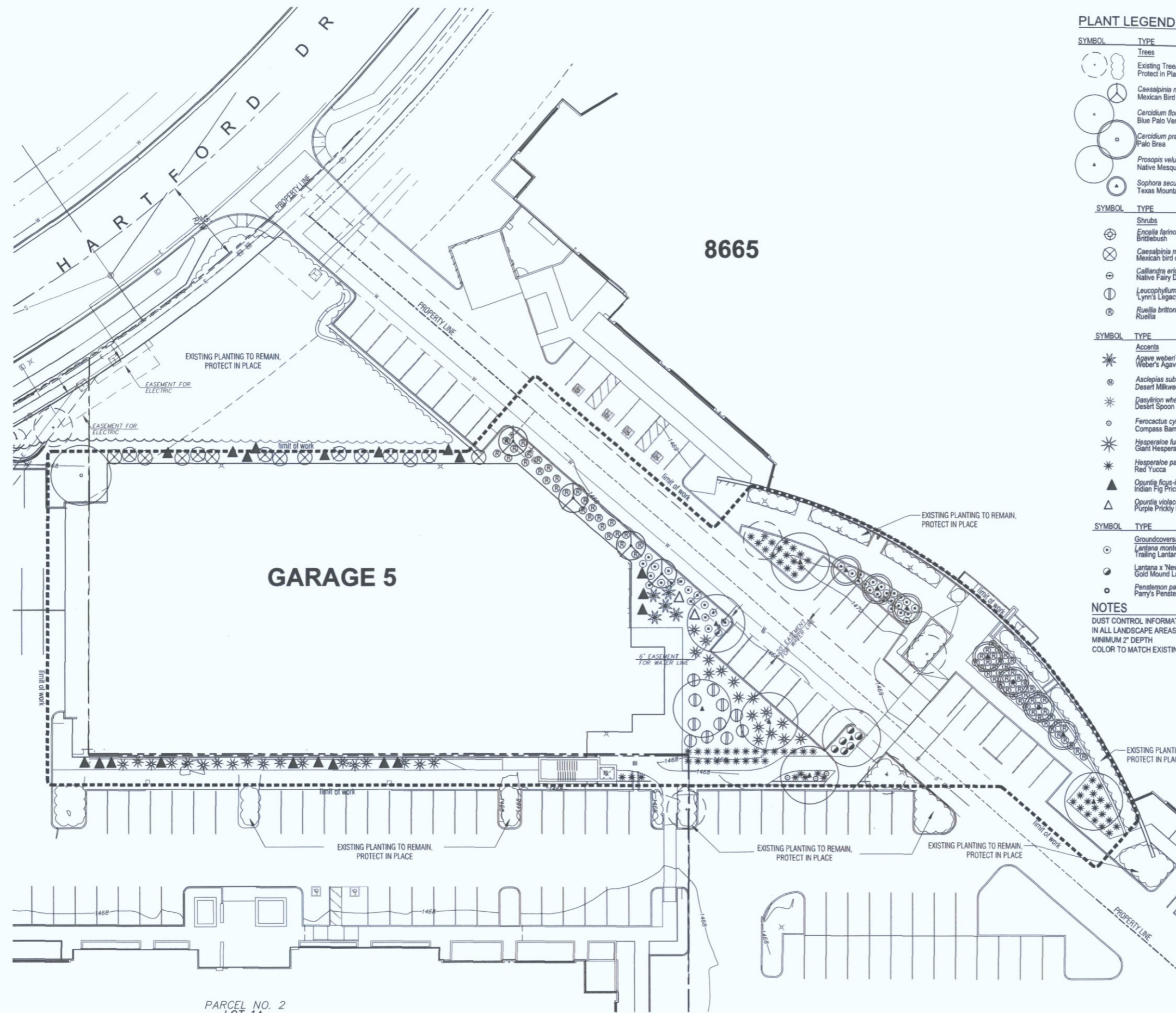
OPEN SPACE CALCULATIONS

Open Space:
 Required:
 Height Used:
 Garage Elevator (Tallest Point): 46'
 Base Ht. For First 10%: -12'
 Ht. for Additional Open Space Required: 34'
 Complete Site: $(726,319 \text{ s.f.} \times .10) + (.003 \times 726,319 \text{ s.f.} \times 34) = 146,717 \text{ s.f.}$
 Provided: 155,634 s.f.
 Including 68,982 s.f. of Front Open Space

Parking Lot Landscape Area:
 Required: $208,620 \text{ s.f. (Parking Lot Area)} \times .15 = 31,293 \text{ s.f.}$
 Including $(31,293 \text{ s.f.} / 3) 10,431 \text{ s.f.}$
 of LS Islands Distributed in the Parking Lot
 Provided: 50,200 s.f.
 Including 17,525 s.f.
 of LS Islands Distributed in the Parking Lot

1 Site Plan
 1" = 60'-0"

68-DR-2000#5
 07/21/16

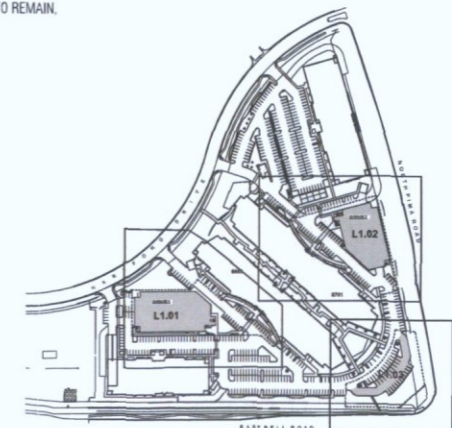


PLANT LEGEND:

SYMBOL	TYPE	SIZE	QTY	REMARKS - HEIGHT X WIDTH - CALIPER SIZE
Trees				
Existing Tree/Planting to Remain Protect in Place				
	<i>Caesalpinia mexicana</i> Mexican Bird of Paradise	24" Box	5	Multi-Trunk 5.0-7.0 3.0-4.0 1.0 Min.
	<i>Cercidium floridum</i> Blue Palo Verde	36" Box	3	Multi-Trunk 7.0-9.0 6.0-8.0 2.0 Min.
	<i>Cercidium praecox</i> Palo Brea	36" Box	8	Multi-Trunk 5.0-8.0 4.0-5.0 1.75 Min.
	<i>Prosopis velutina</i> Native Mesquite	36" Box	19	Multi-Trunk 8.0-10.0 6.0-8.0 1.75 Min.
	<i>Sophora secundiflora</i> Texas Mountain Laurel	24" Box	10	Multi-Trunk 3.0-4.0 2.0-3.0 .75 Min.
PROJECT				
Shrubs				
	<i>Encelia farinosa</i> Brittlebush	5 Gallon	10	
	<i>Caesalpinia mexicana</i> Mexican bird of paradise	5 Gallon	15	
	<i>Calliandra eriophylla</i> Native Fairy Duster	5 Gallon	59	
	<i>Leucophyllum langmaniae</i> Lynn's Legacy	5 Gallon	16	
	<i>Ruellia brittoniana</i> Ruellia	5 Gallon	137	
SYMBOL TYPE SIZE				
Accents				
	<i>Agave weberi</i> Weber's Agave	5 Gallon	5	
	<i>Asclepias subulata</i> Desert Milkweed	5 Gallon	0	
	<i>Dasylirion wheeleri</i> Desert Spoon	5 Gallon	97	
	<i>Ferocactus cylindraceus</i> Compass Barrel Cactus	5 Gallon	3	
	<i>Hesperaloe funifera</i> Giant Hesperaloe	5 Gallon	41	
	<i>Hesperaloe parviflora</i> Red Yucca	5 Gallon	262	
	<i>Opuntia ficus-indica</i> Indian Fig Prickly Pear	5 Gallon	42	
	<i>Opuntia violacea</i> 'Santa-Rita' Purple Prickly Pear	5 Gallon	15	
PROJECT				
SYMBOL TYPE SIZE QTY.				
Groundcovers/Vines				
	<i>Lantana montevidensis</i> Trailing Lantana	1 Gallon	83	
	<i>Lantana x 'New Gold'</i> Gold Mound Lantana	1 Gallon	45	
	<i>Penstemon parryi</i> Parry's Penstemon	1 Gallon	0	

NOTES

DUST CONTROL INFORMATION:
IN ALL LANDSCAPE AREAS PROVIDE 1/2" MINUS DECOMPOSED GRANITE
MINIMUM 2" DEPTH
COLOR TO MATCH EXISTING



KEY MAP
nts



68-DR-2000#5

07/21/16

SCALE: 1" = 20'-0"

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PHOENIX, ARIZONA 85008
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FACSIMILE: 602.954.6954
WWW.DFDG.COM

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DRB SUBMITTAL
7.14.2016

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8665 & 8701 E. Hartford Drive
Scottsdale, AZ

DFDG PROJECT NUMBER

LANDSCAPE PLAN

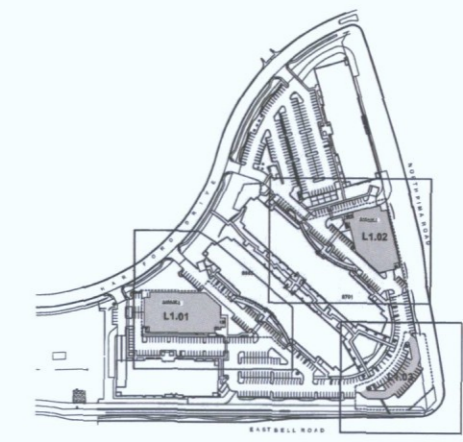
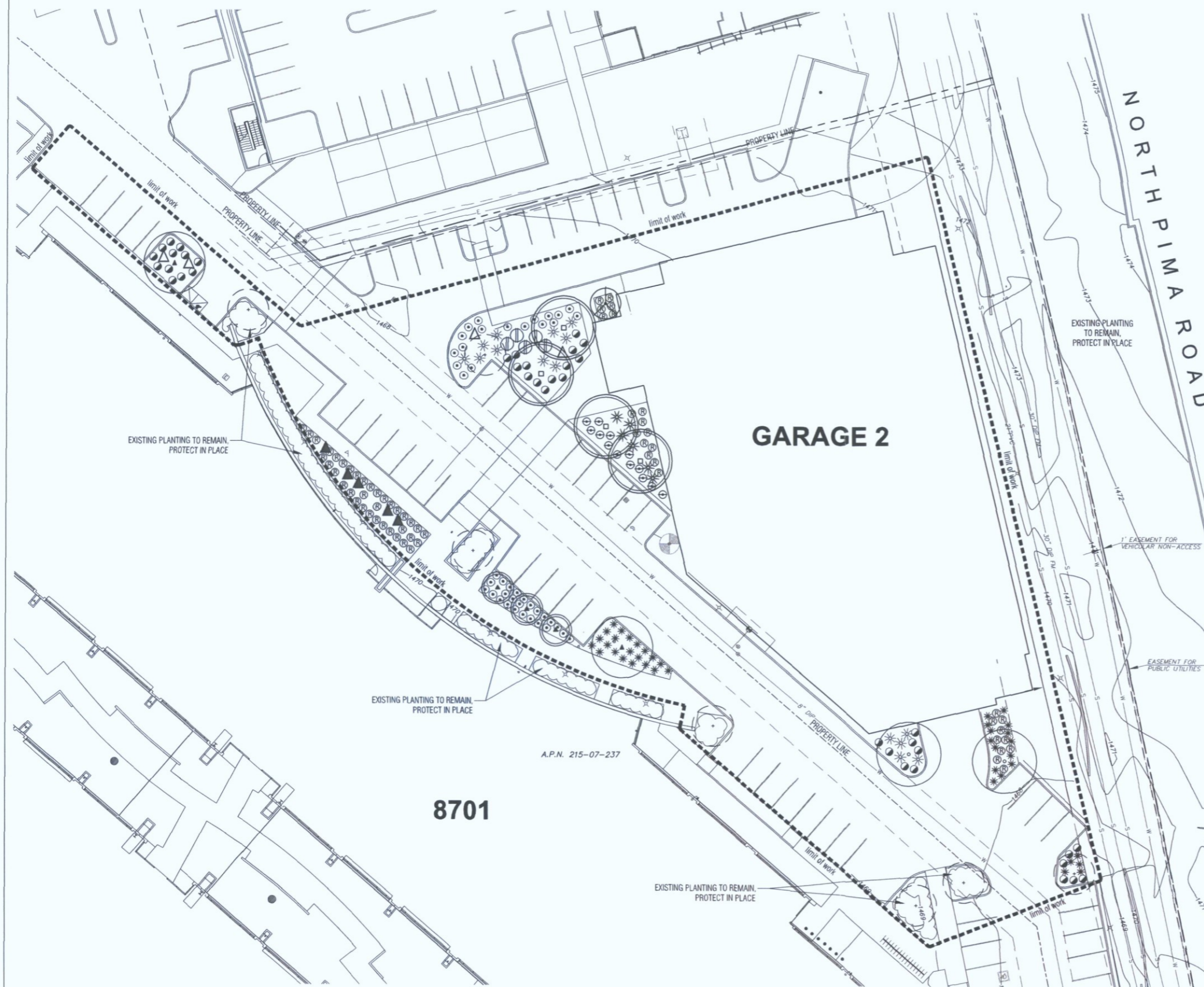
L1.01

PLANT LEGEND:

SYMBOL	TYPE	SIZE	QTY	REMARKS - HEIGHT X WIDTH - CALIPER SIZE
Trees				
(Symbol)	Existing Tree/Planting to Remain Protect in Place			
(Symbol)	<i>Caesalpinia mexicana</i> Mexican Bird of Paradise	24" Box	5	Multi-Trunk 5.0-7.0 3.0-4.0 1.0 Min.
(Symbol)	<i>Cercidium floridum</i> Blue Palo Verde	36" Box	3	Multi-Trunk 7.0-9.0 6.0-8.0 2.0 Min.
(Symbol)	<i>Cercidium praecox</i> Palo Brea	36" Box	8	Multi-Trunk 5.0-8.0 4.0-5.0 1.75 Min.
(Symbol)	<i>Prosopis velutina</i> Native Mesquite	36" Box	19	Multi-Trunk 8.0-10.0 6.0-8.0 1.75 Min.
(Symbol)	<i>Sophora secundiflora</i> Texas Mountain Laurel	24" Box	10	Multi-Trunk 3.0-4.0 2.0-3.0 .75 Min.
Shrubs				
(Symbol)	<i>Encelia farinosa</i> Brittlebush	5 Gallon	10	
(Symbol)	<i>Caesalpinia mexicana</i> Mexican bird of paradise	5 Gallon	15	
(Symbol)	<i>Calliandra eriophylla</i> Native Fairy Duster	5 Gallon	59	
(Symbol)	<i>Leucophyllum langmaniae</i> Lynn's Legacy	5 Gallon	16	
(Symbol)	<i>Ruellia brittoniana</i> Ruellia	5 Gallon	137	
Accents				
(Symbol)	<i>Agave weberi</i> Weber's Agave	5 Gallon	5	
(Symbol)	<i>Asclepias subulata</i> Desert Milkweed	5 Gallon	0	
(Symbol)	<i>Dasyliiron wheeleri</i> Desert Spoon	5 Gallon	97	
(Symbol)	<i>Ferocactus cylindraceus</i> Compass Barrel Cactus	5 Gallon	3	
(Symbol)	<i>Hesperaloe funifera</i> Giant Hesperaloe	5 Gallon	41	
(Symbol)	<i>Hesperaloe parviflora</i> Red Yucca	5 Gallon	262	
(Symbol)	<i>Opuntia ficus-indica</i> Indian Fig Prickly Pear	5 Gallon	42	
(Symbol)	<i>Opuntia violacea</i> 'Santa-Rita' Purple Prickly Pear	5 Gallon	15	
Groundcovers/Vines				
(Symbol)	<i>Lantana montevidensis</i> Trailing Lantana	1 Gallon	83	
(Symbol)	<i>Lantana x 'New Gold'</i> Gold Mound Lantana	1 Gallon	45	
(Symbol)	<i>Penstemon parryi</i> Parry's Penstemon	1 Gallon	0	

NOTES

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MINIMUM 2" DEPTH
COLOR TO MATCH EXISTING



KEY MAP
nts

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07/21/16



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7.14.2016

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Scottsdale, AZ

DFDG PROJECT NUMBER

LANDSCAPE PLAN

L1.02

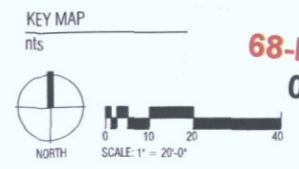
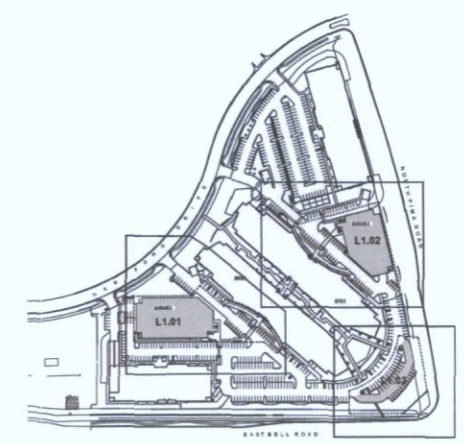


PLANT LEGEND:

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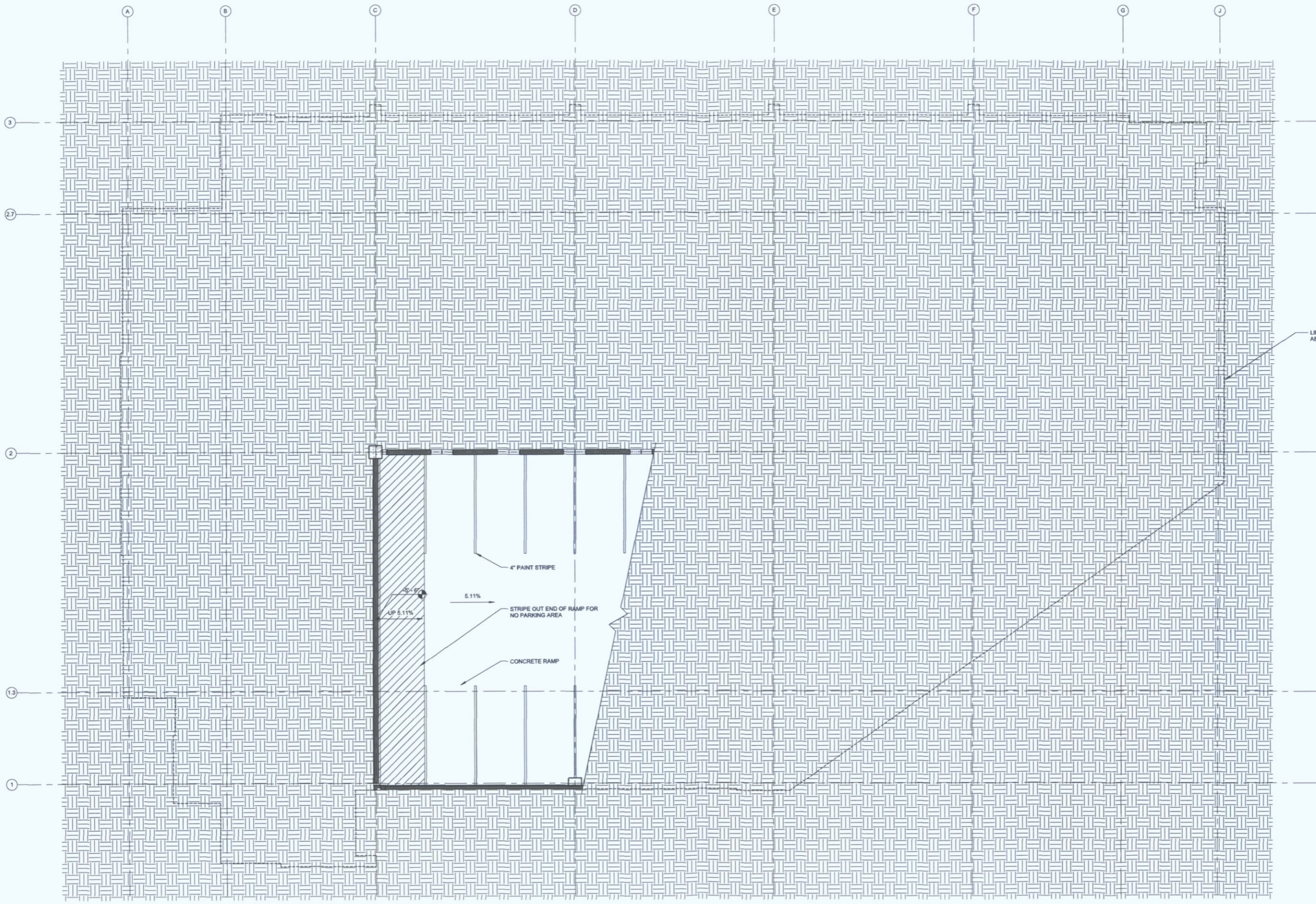
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7.14.2016

Wentworth Perimeter Center
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Scottsdale, AZ

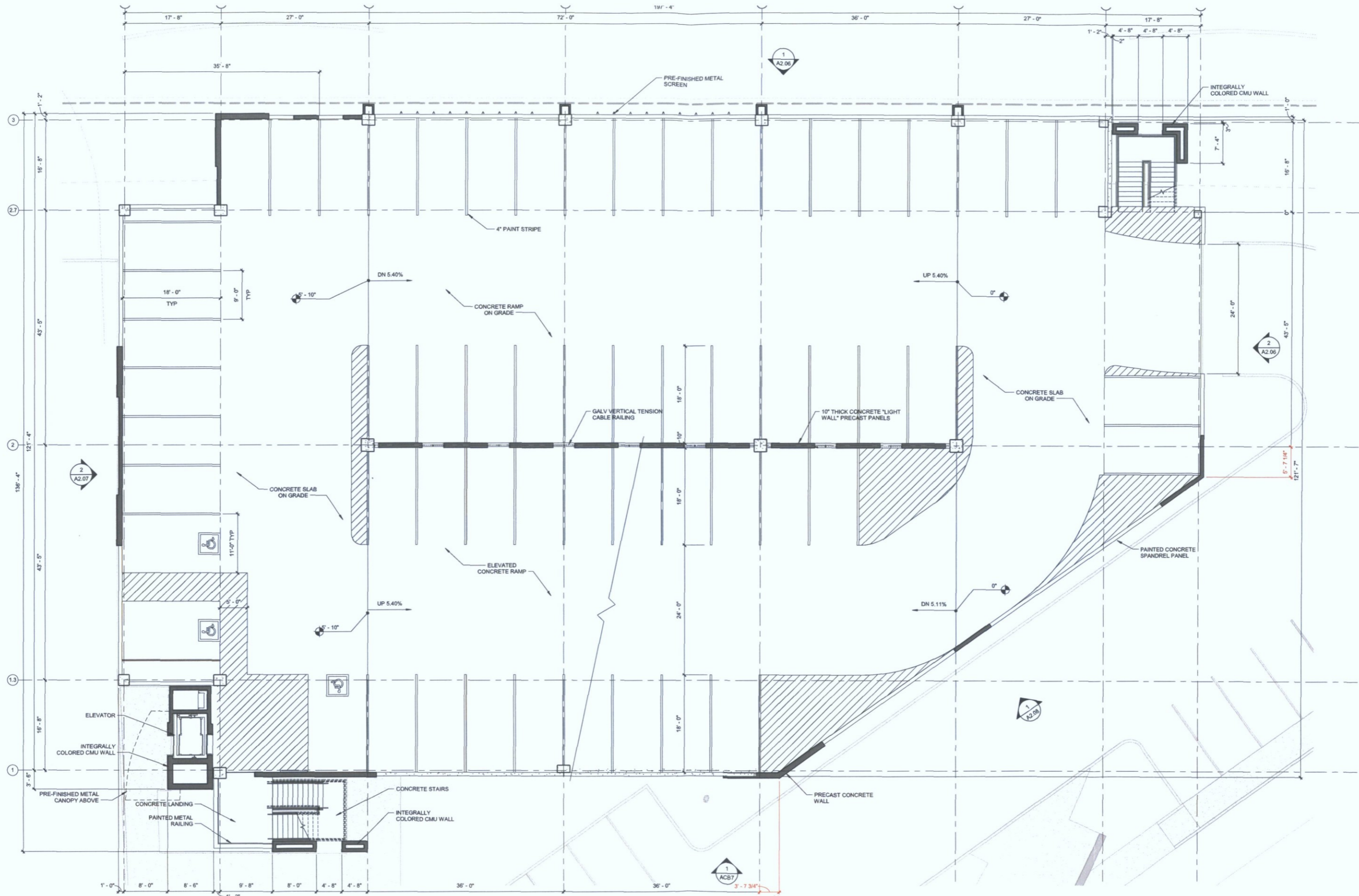
DFDG PROJECT NUMBER

LANDSCAPE PLAN
L1.03



68-DR-2000#5
07/21/16

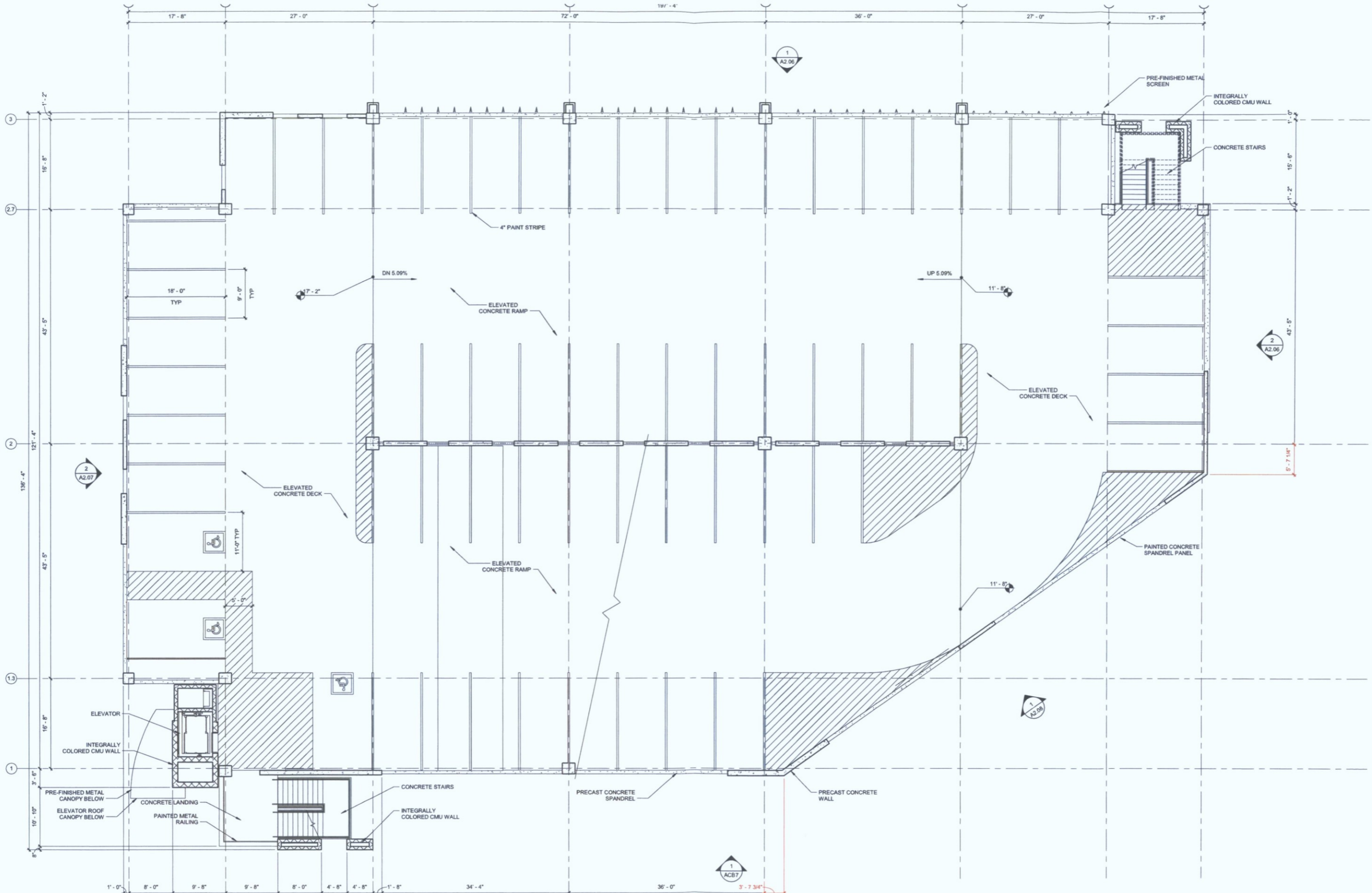
GARAGE 2 - LOWER LEVEL FLOOR PLAN



1 Level 1 Floor Plan
 1/8" = 1'-0"

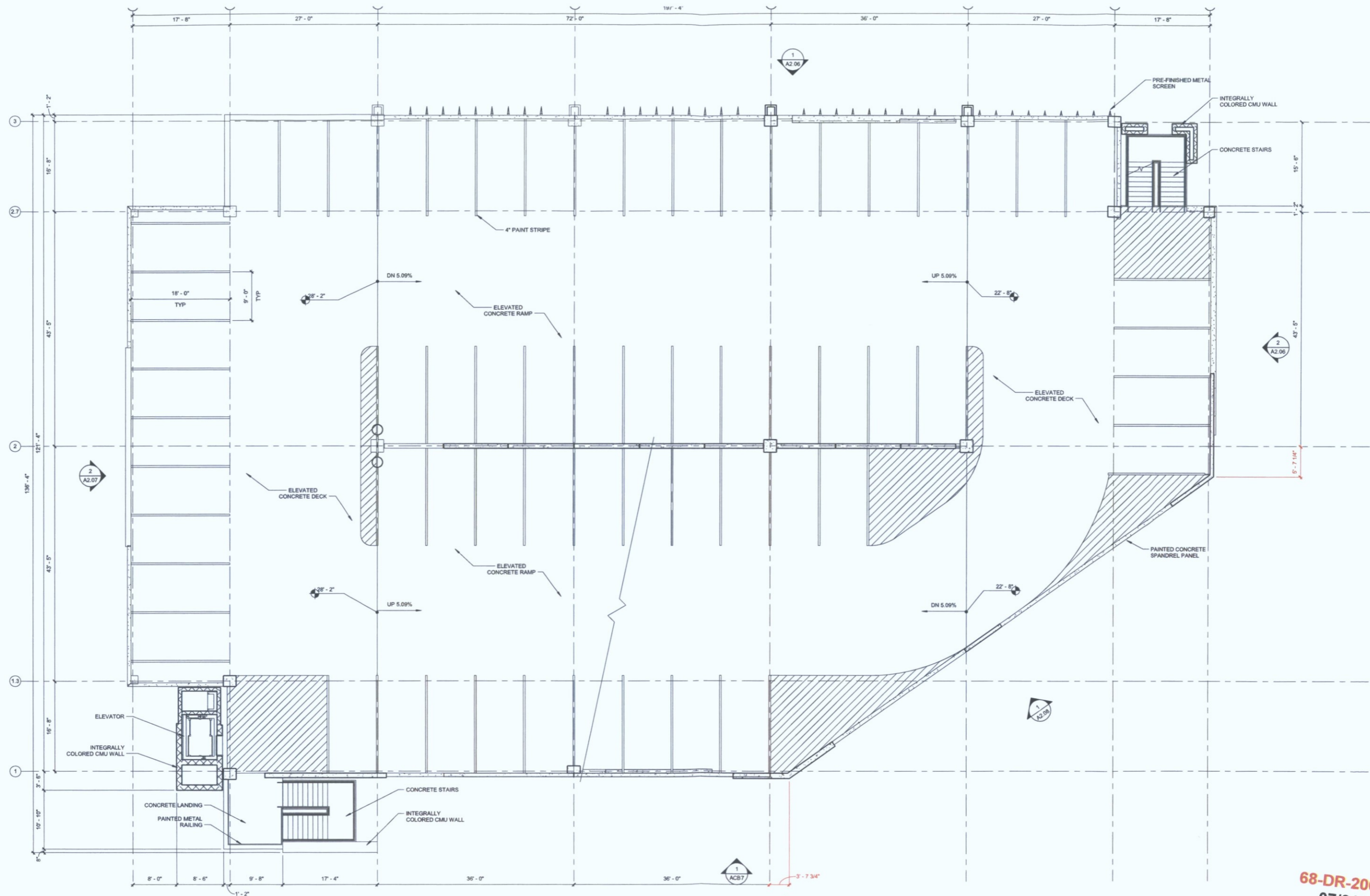
68-DR-2000#5
 07/21/16

GARAGE 2 - LEVEL 1 FLOOR PLAN



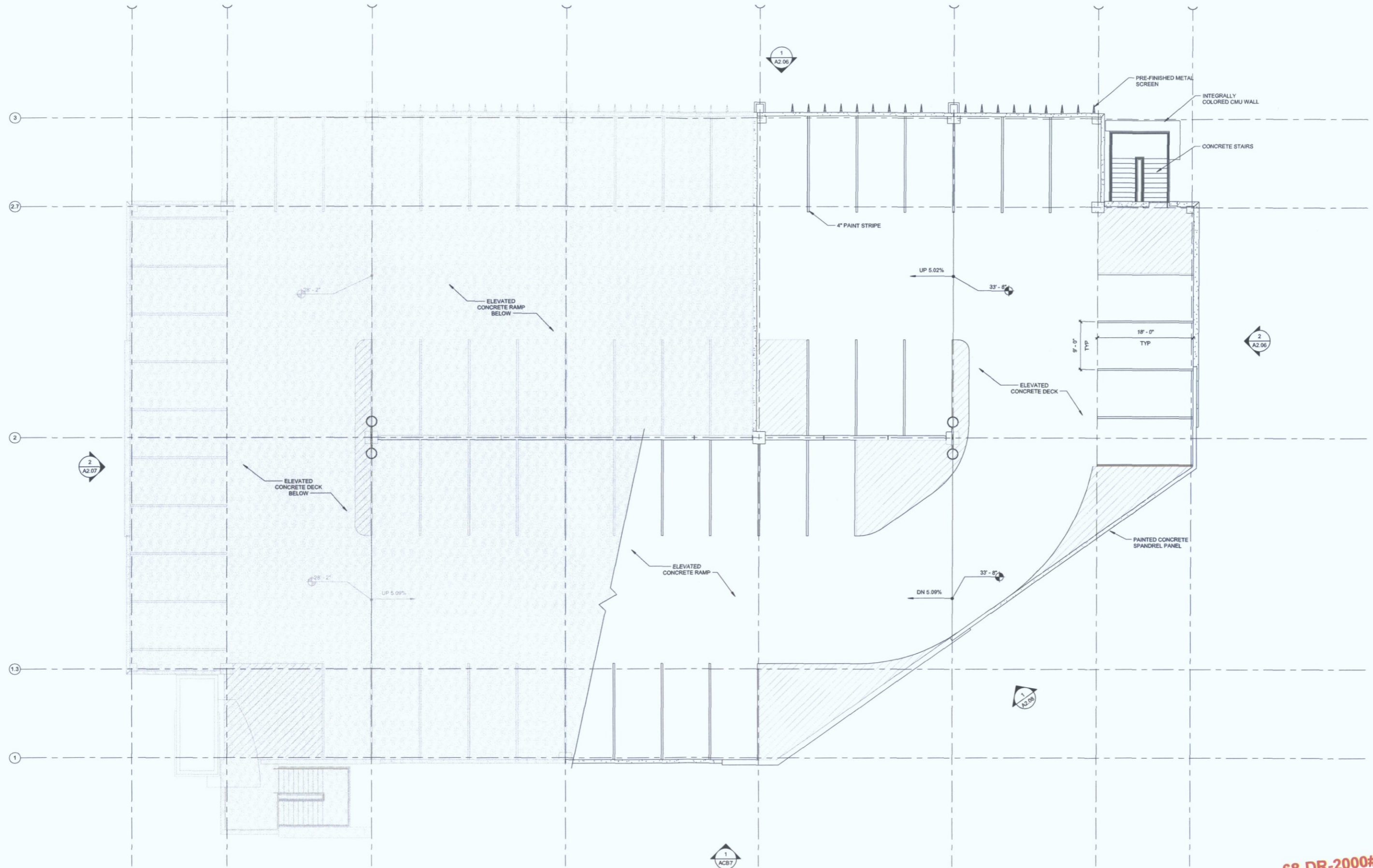
1 Level 2 Floor Plan
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68-DR-2000#5
 07/21/16



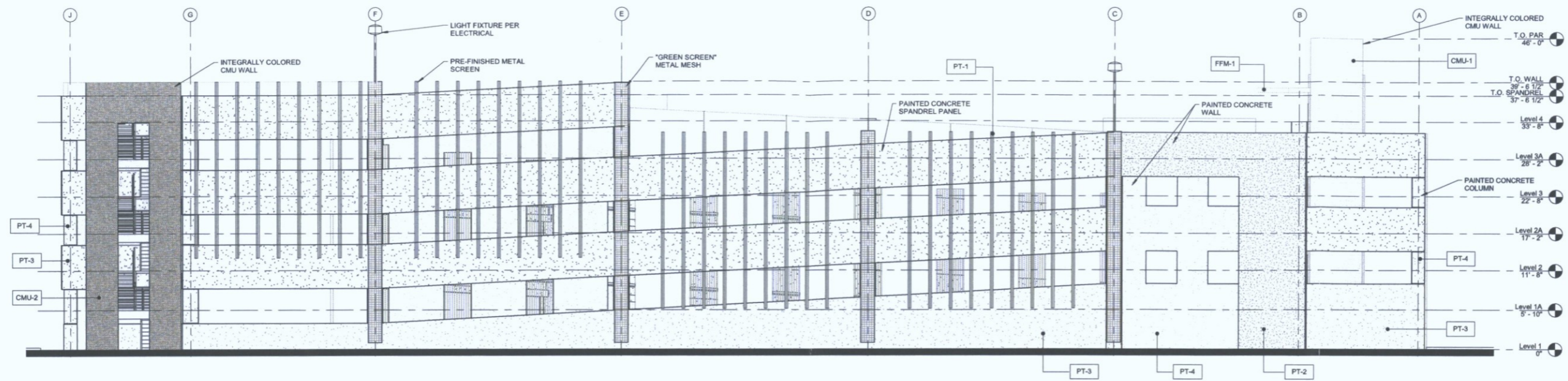
1 Level 3 Floor Plan
 1/8" = 1'-0"

68-DR-2000#5
 07/21/16

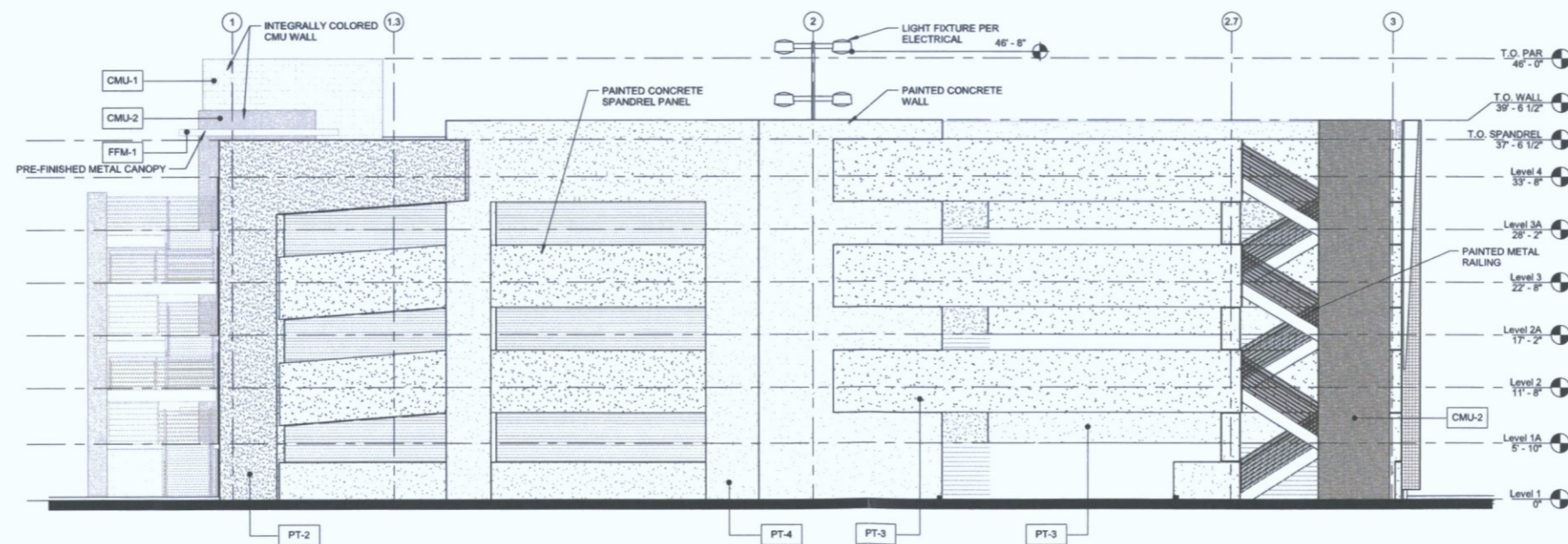


1 Level 4 Floor Plan
 1/8" = 1'-0"

68-DR-2000#5
 07/21/16



1 East Elevation
1/8" = 1'-0"

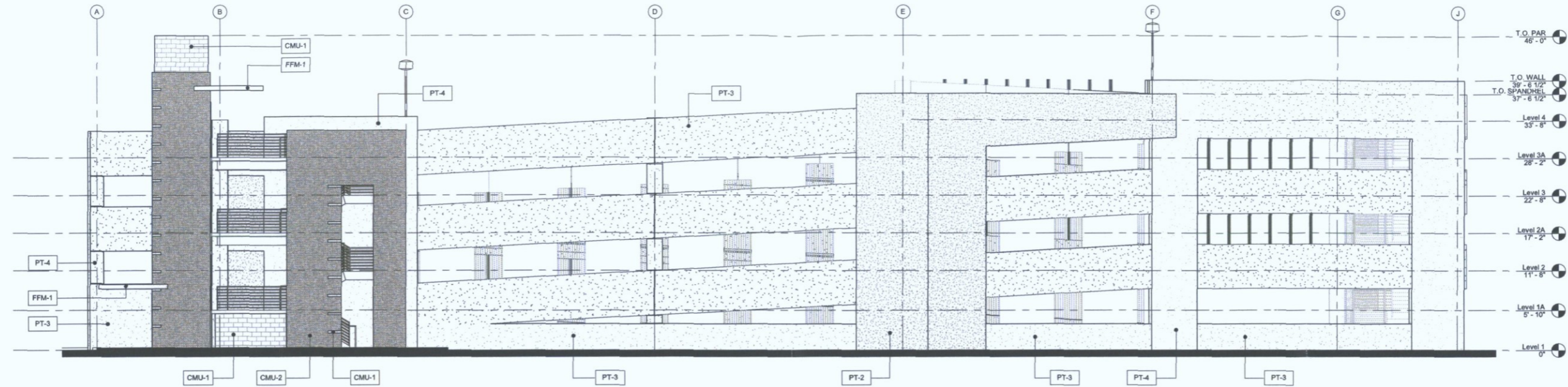


2 South Elevation
1/8" = 1'-0"

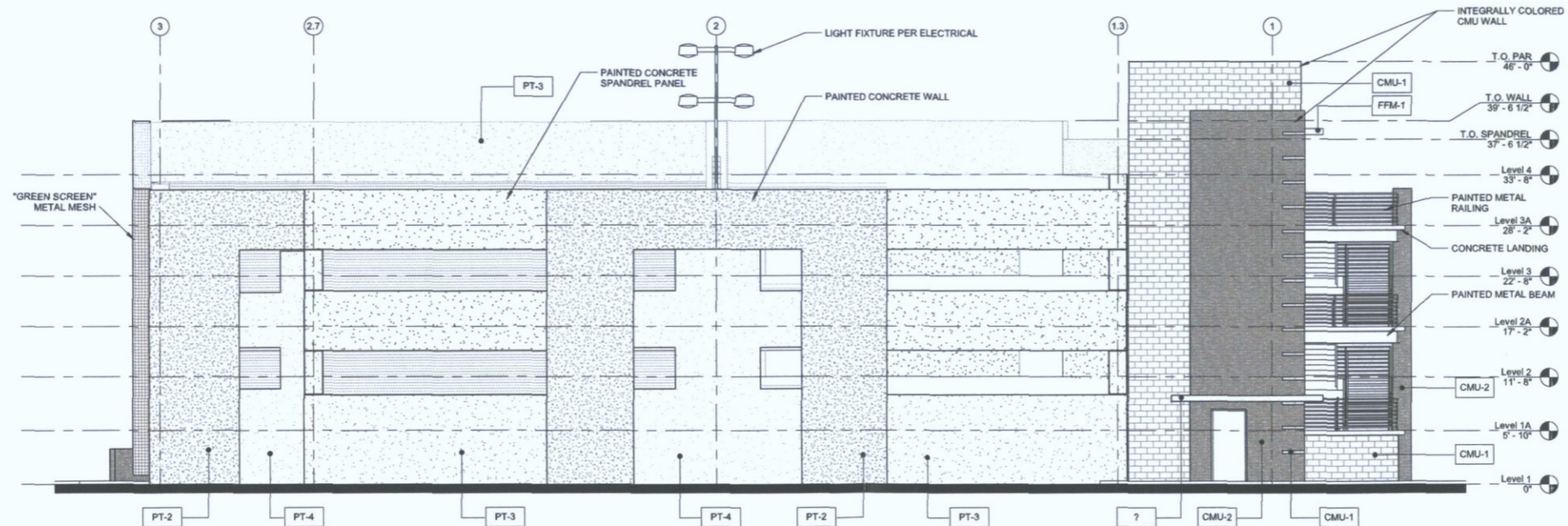
MATERIAL LEGEND

Mark	Manufacturer	Product
CMU-1	Supelrite	Integrally-Colored Smooth CMU, Color: Umber Brown
CMU-2	Supelrite	Integrally-Colored Split-Face CMU, Color: Autumn
FFM-1	Atlas	Pre-Finished Metal - 04 Chocolate Brown
PT-1	Dunn Edwards	Painted Metal: DE6042 "Bear in Mind", LRV 7
PT-2	Dunn Edwards	Painted Concrete: DE6084 "Roxy Brown" LRV 11
PT-3	Dunn Edwards	Painted Concrete: DE6075 "Wood Lake", LRV 24
PT-4	Dunn Edwards	Painted Concrete: DEC119 "Coral Clay" LRV 42

68-DR-2000#5
07/21/16



1 West Elevation
1/8" = 1'-0"

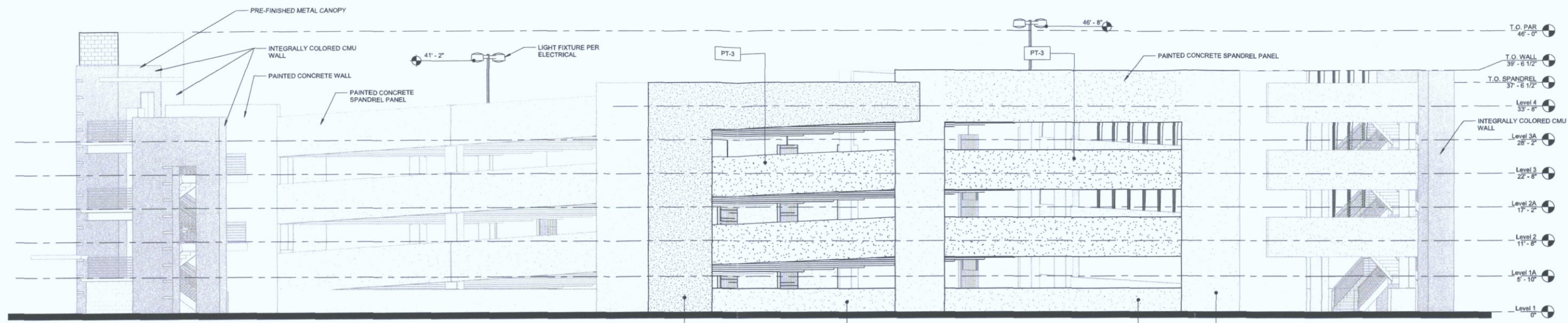


2 North Elevation
1/8" = 1'-0"

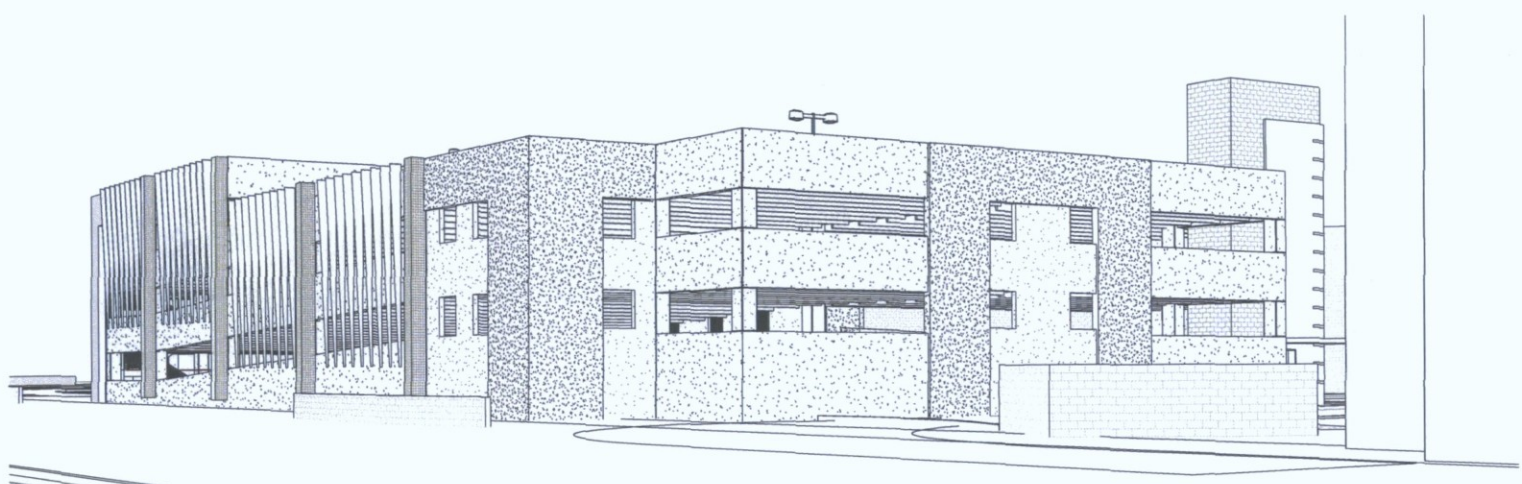
MATERIAL LEGEND

Mark	Manufacturer	Product
CMU-1	Superlite	Integrally-Colored Smooth CMU, Color: Umber Brown
CMU-2	Superlite	Integrally-Colored Split-Face CMU, Color: Autumn
FFM-1	Alas	Pre-Finished Metal - 04 Chocolate Brown
PT-1	Dunn Edwards	Painted Metal: DE5042 "Bear in Mind", LRV 7
PT-2	Dunn Edwards	Painted Concrete: DE6084 "Roxy Brown", LRV 11
PT-3	Dunn Edwards	Painted Concrete: DE6075 "Wood Lake", LRV 24
PT-4	Dunn Edwards	Painted Concrete: DEC719 "Coral Clay", LRV 42

68-DR-2000#5
07/21/16



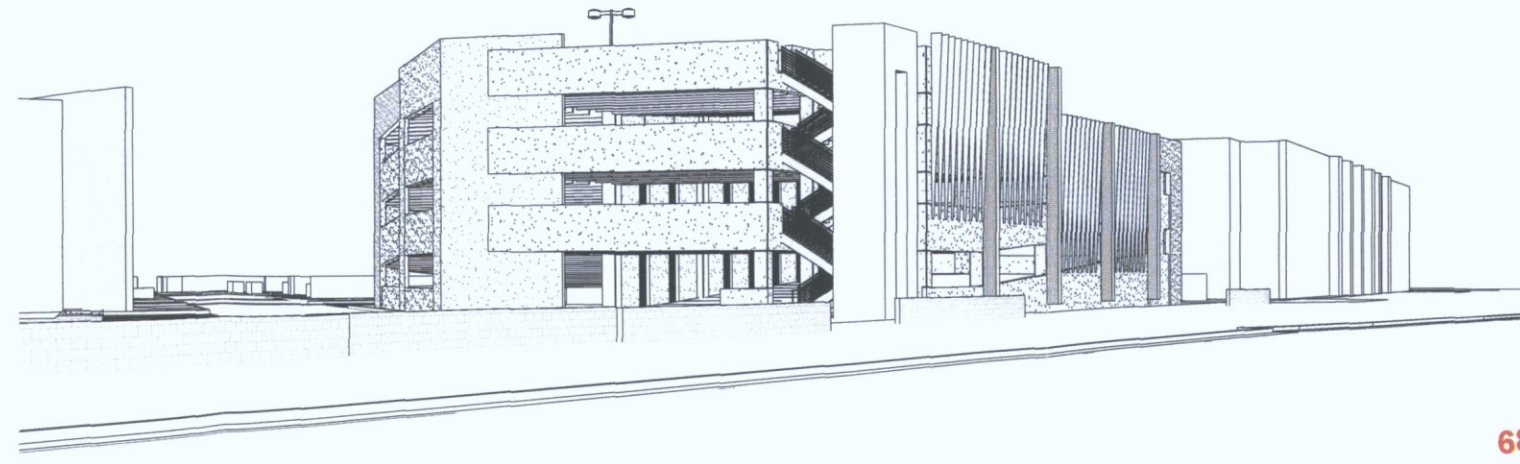
1 Southwest Elevation
 1/8" = 1'-0"
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2 View From Frontage Road

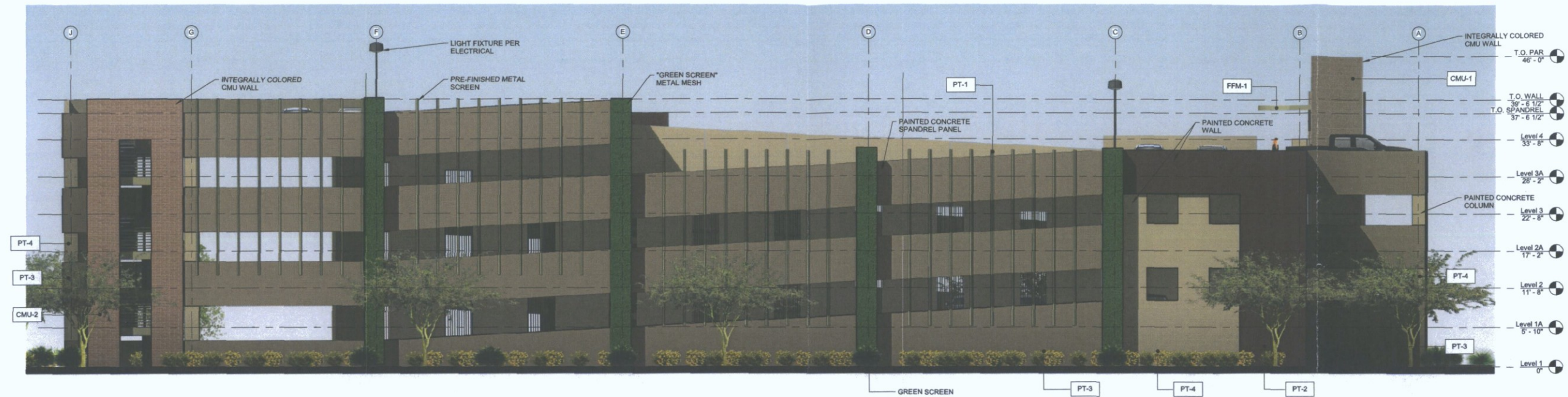
MATERIAL LEGEND

Mark	Manufacturer	Product
CMU-1	Superlite	Integrally-Colored Smooth CMU, Color: Umber Brown
CMU-2	Superlite	Integrally-Colored Split-Face CMU, Color: Autumn
FFM-1	Atlas	Pre-Finished Metal - 04 Chocolate Brown
PT-1	Dunn Edwards	Painted Metal: DE6042 "Bear in Mind", LRV 7
PT-2	Dunn Edwards	Painted Concrete: DE6084 "Roxy Brown", LRV 11
PT-3	Dunn Edwards	Painted Concrete: DE6075 "Wood Lake", LRV 24
PT-4	Dunn Edwards	Painted Concrete: DEC719 "Coral Clay" LRV 42

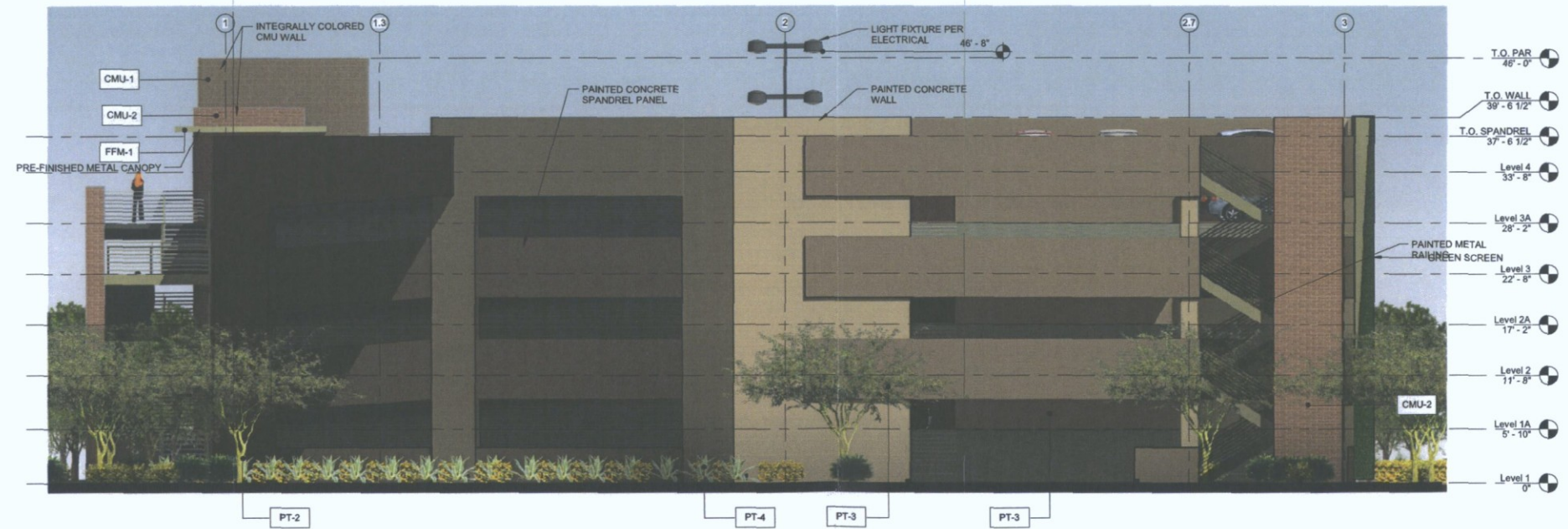


3 View From Intersection

68-DR-2000#5
 07/21/16



1 East Elevation
1/8" = 1'-0"

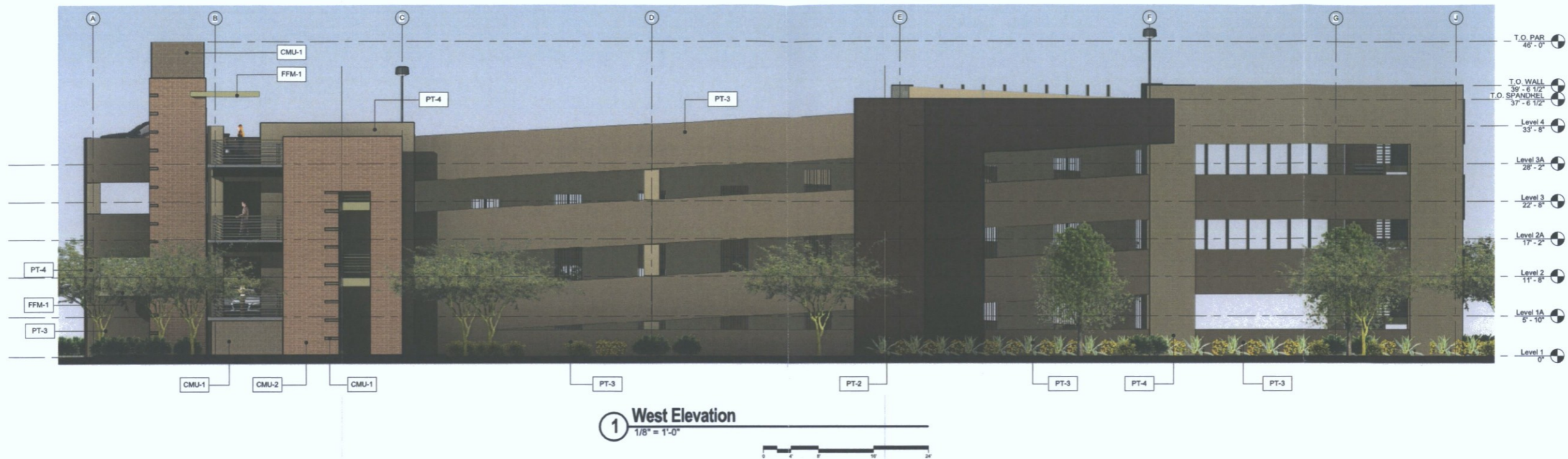


2 South Elevation
1/8" = 1'-0"

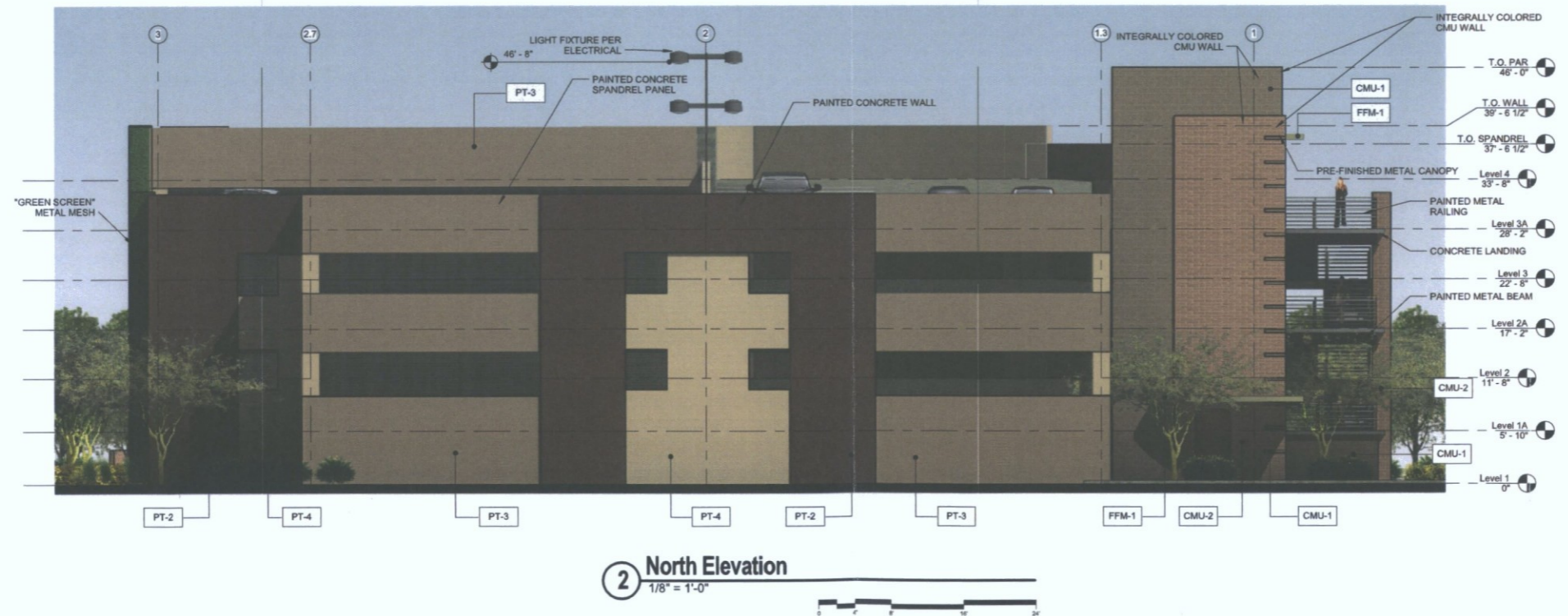
MATERIAL LEGEND

Mark	Manufacturer	Product
CMU-1	Supertite	Integrally-Colored Smooth CMU, Color: Umber Brown
CMU-2	Supertite	Integrally-Colored Split-Face CMU, Color: Autumn
FFM-1	Alas	Pre-Finished Metal - 04 Chocolate Brown
PT-1	Dunn Edwards	Painted Metal: DE6042 "Bear in Mind", LRV 7
PT-2	Dunn Edwards	Painted Concrete: DE6084 "Roxy Brown", LRV 11
PT-3	Dunn Edwards	Painted Concrete: DE6075 "Wood Lake", LRV 24
PT-4	Dunn Edwards	Painted Concrete: DEC719 "Coral Clay" LRV 42

68-DR-2000#5
07/21/16



1 West Elevation
1/8" = 1'-0"

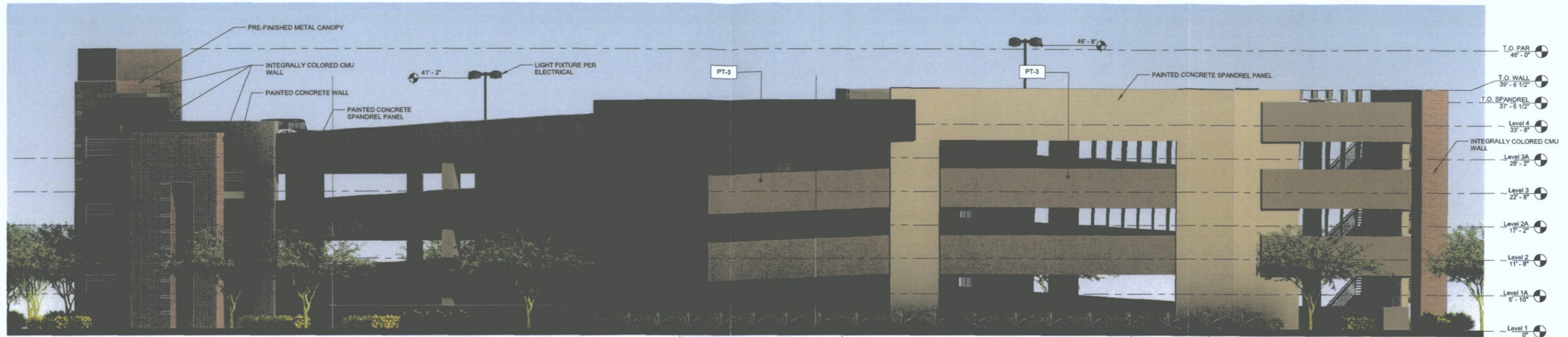


2 North Elevation
1/8" = 1'-0"

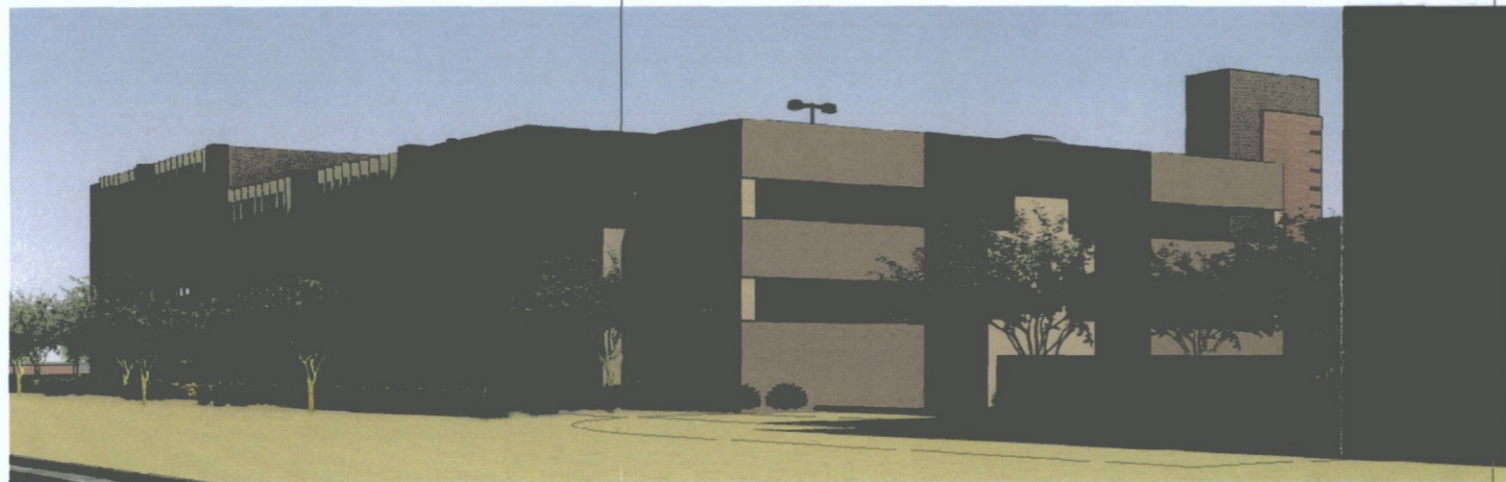
MATERIAL LEGEND

Mark	Manufacturer	Product
CMU-1	Superlite	Integrally-Colored Smooth CMU, Color: Umber Brown
CMU-2	Superlite	Integrally-Colored Split-Face CMU, Color: Autumn
FFM-1	Atlas	Pre-Finished Metal - 04 Chocolate Brown
PT-1	Dunn Edwards	Painted Metal: DE6042 "Bear in Mind", LRV 7
PT-2	Dunn Edwards	Painted Concrete: DE6084 "Roxy Brown" LRV 11
PT-3	Dunn Edwards	Painted Concrete: DE6075 "Wood Lake", LRV 24
PT-4	Dunn Edwards	Painted Concrete: DEC719 "Coral Clay" LRV 42

68-DR-2000#5
07/21/16



1 Southwest Elevation
1/8" = 1'-0"



2 View From Frontage Road

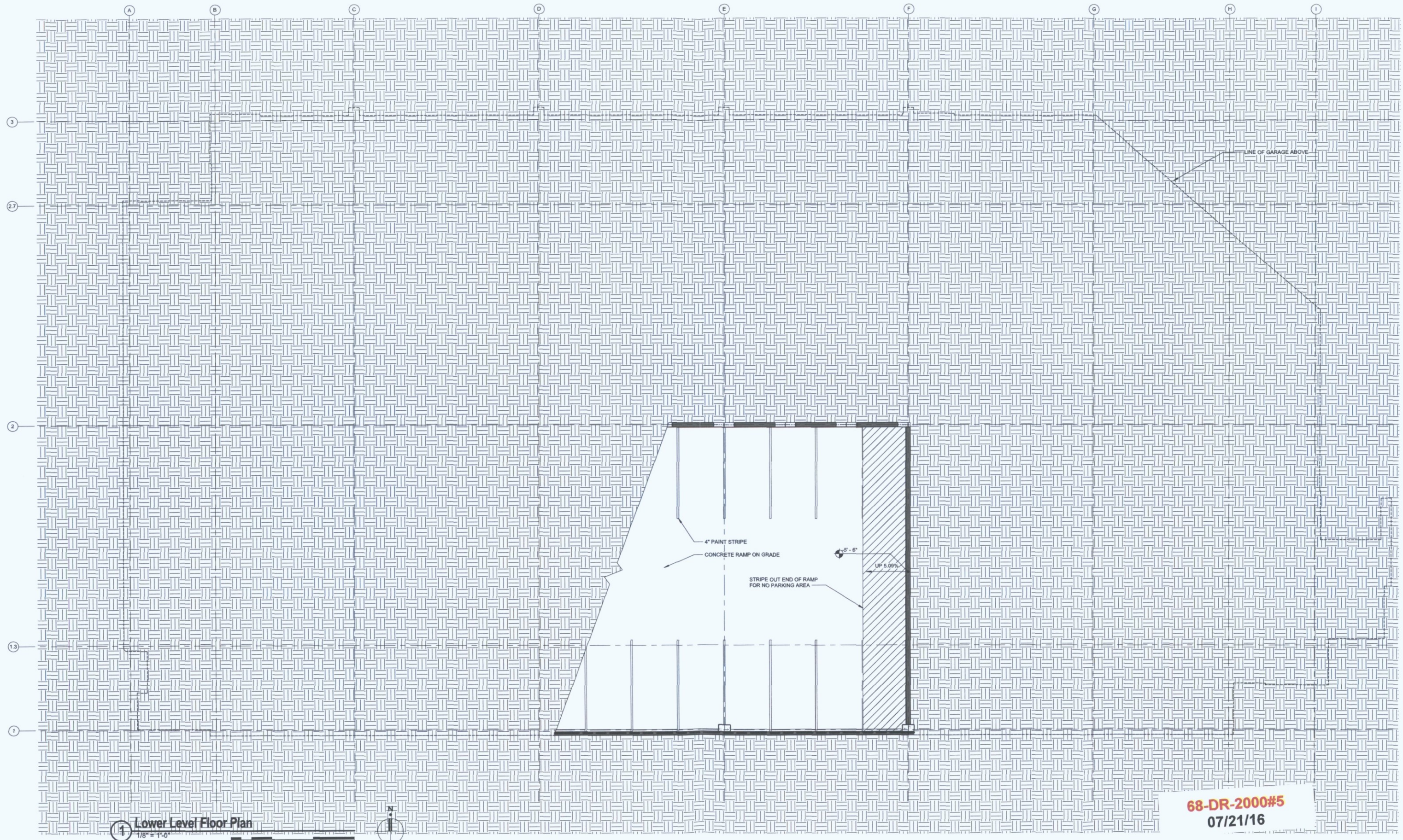


3 View From Intersection

MATERIAL LEGEND

Mark	Manufacturer	Product
CMU-1	Superlite	Integrally-Colored Smooth CMU, Color: Umber Brown
CMU-2	Superlite	Integrally-Colored Split-Face CMU, Color: Autumn
FFM-1	Atas	Pre-Finished Metal - 04 Chocolate Brown
PT-1	Dunn Edwards	Painted Metal: DE6042 "Bear in Mind", LRV 7
PT-2	Dunn Edwards	Painted Concrete: DE6084 "Roxy Brown" LRV 11
PT-3	Dunn Edwards	Painted Concrete: DE6075 "Wood Lake", LRV 24
PT-4	Dunn Edwards	Painted Concrete: DEC719 "Coral Clay" LRV 42

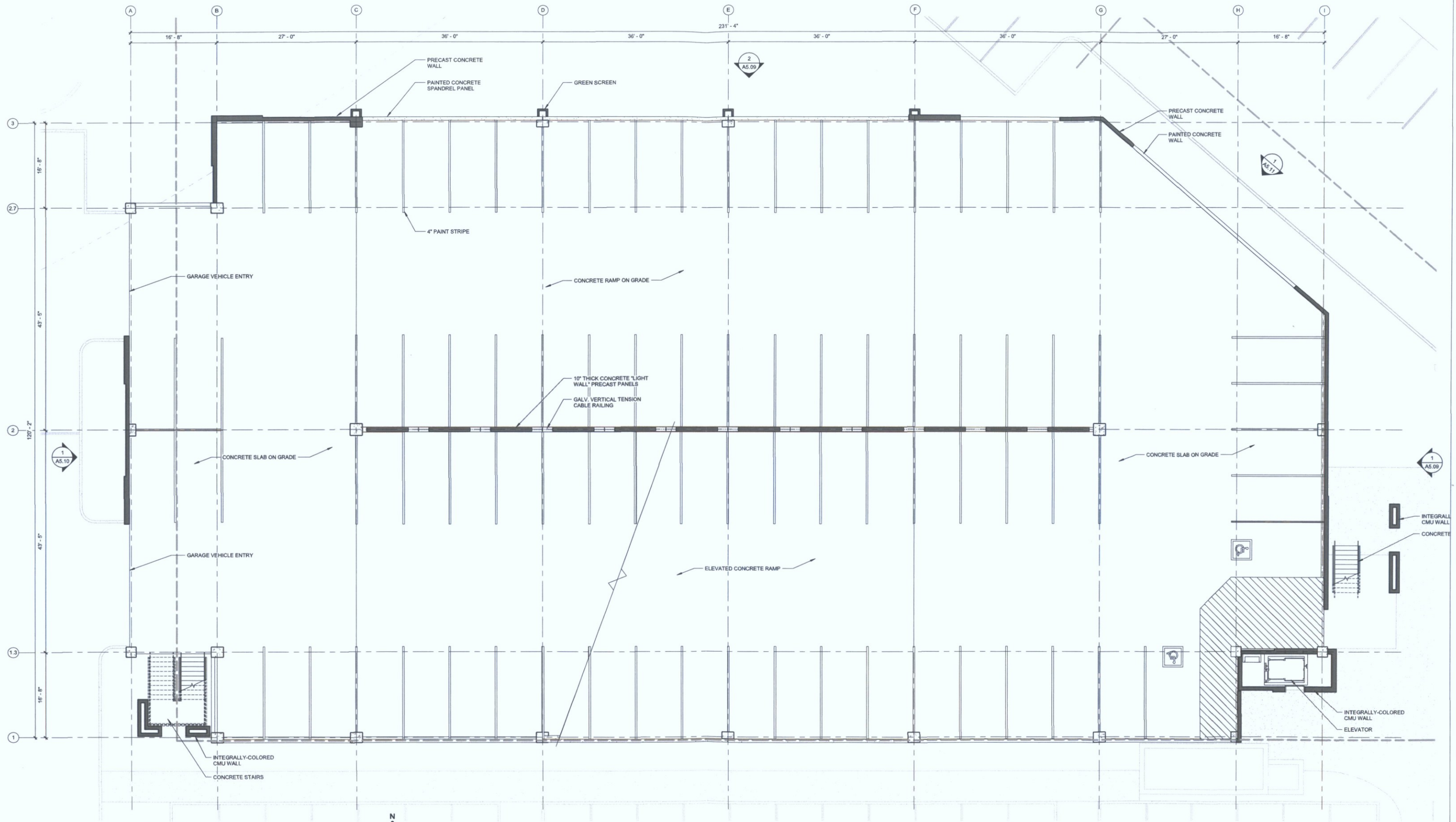
68-DR-2000#5
07/21/16



1 Lower Level Floor Plan
1/8" = 1'-0"



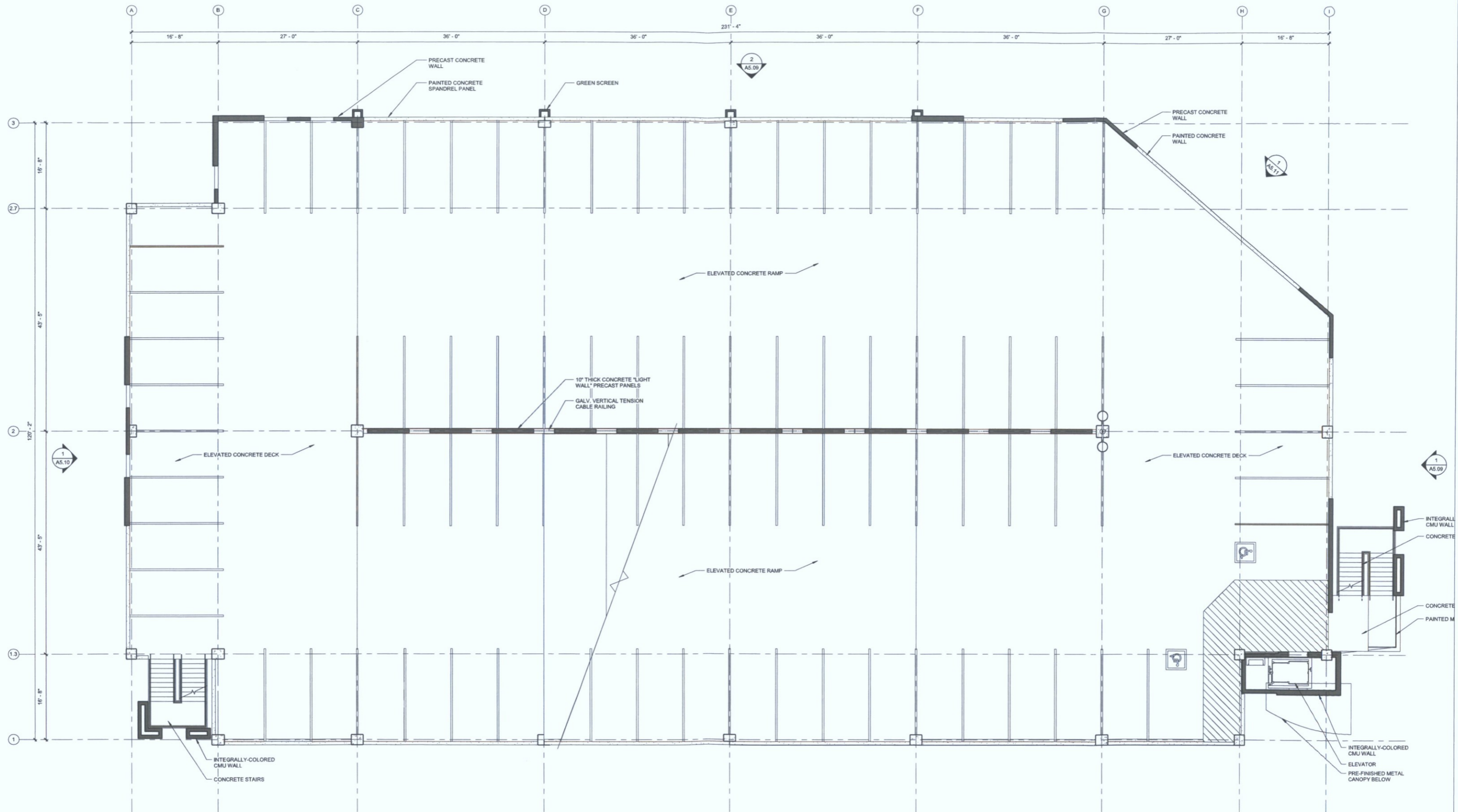
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1 Level 1 Floor Plan
1/8" = 1'-0"

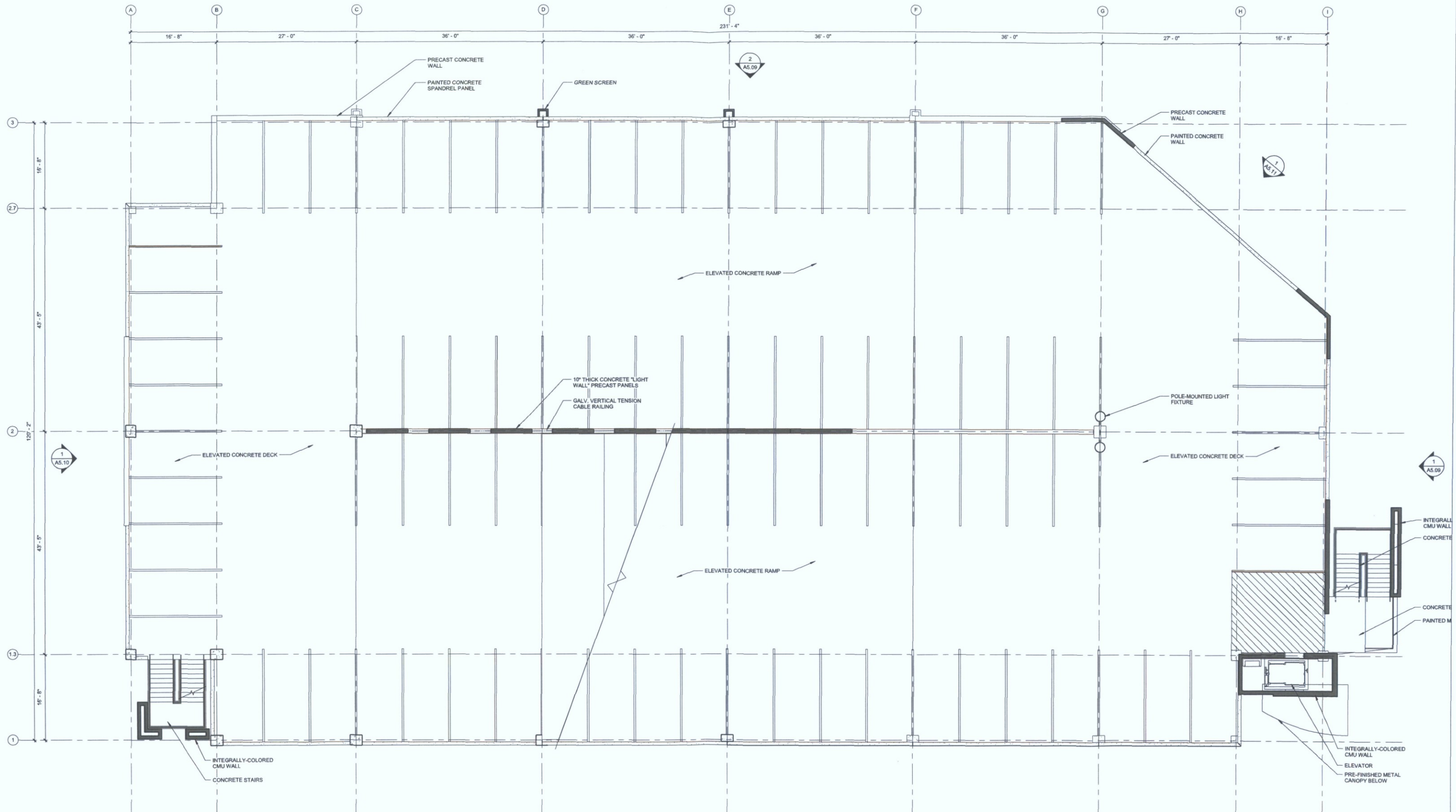


68-DR-2000#5
07/21/16



1 Level 2 Floor Plan
 1/8" = 1'-0"

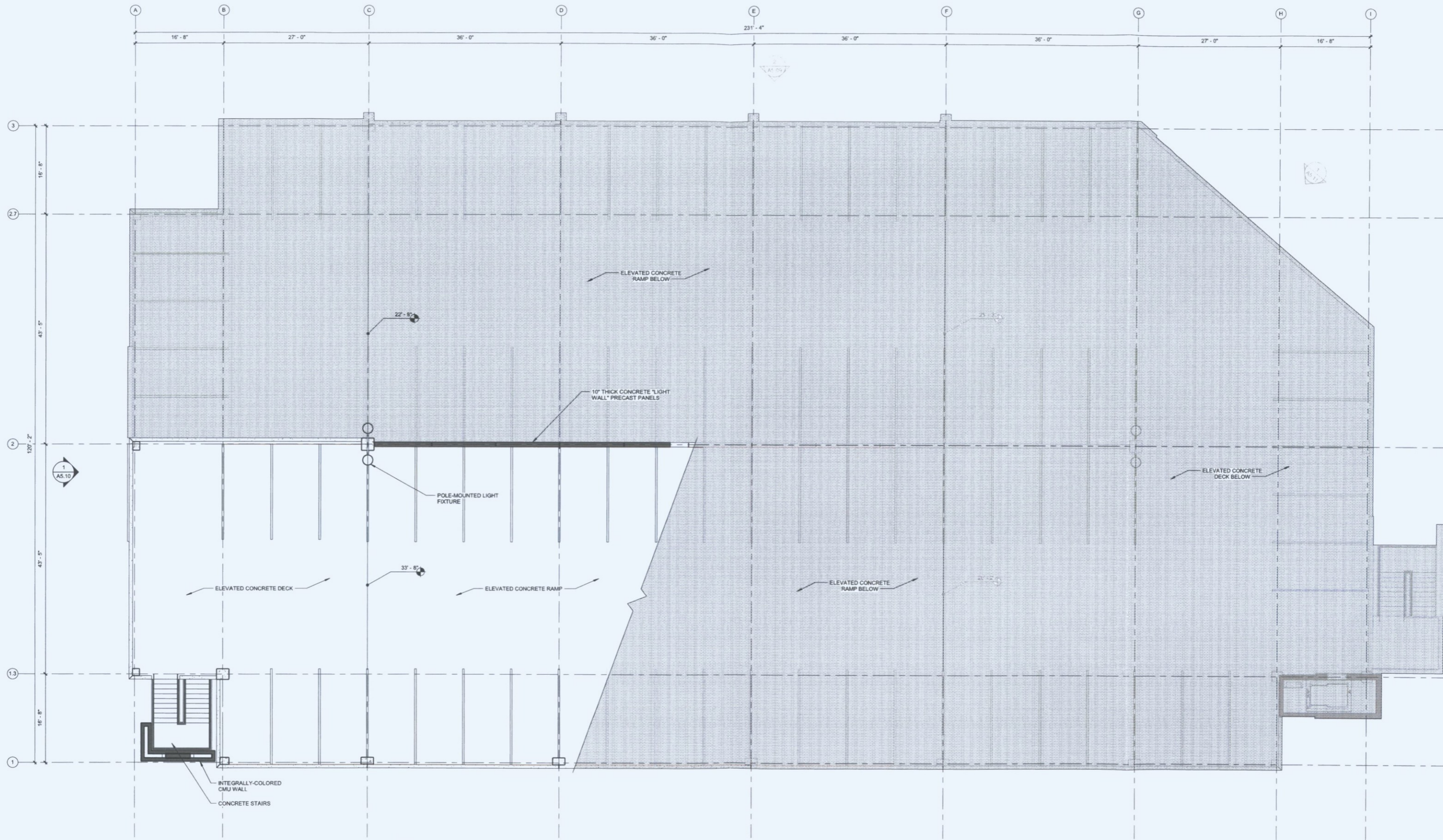
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07/21/16



1 Level 3 Floor Plan
 1/8" = 1'-0"

68-DR-2000#5
 07/21/16

GARAGE 5 - LEVEL 3 FLOOR PLAN



1 Level 4 Floor Plan
 1/8" = 1'-0"

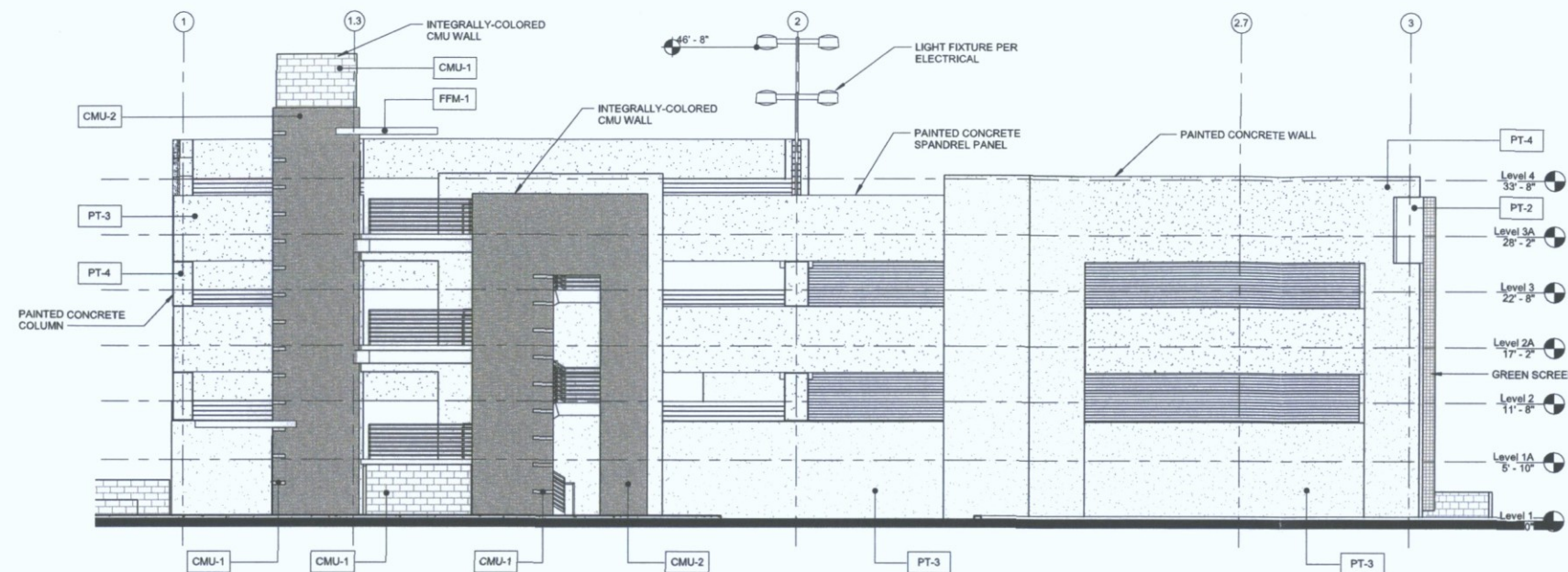


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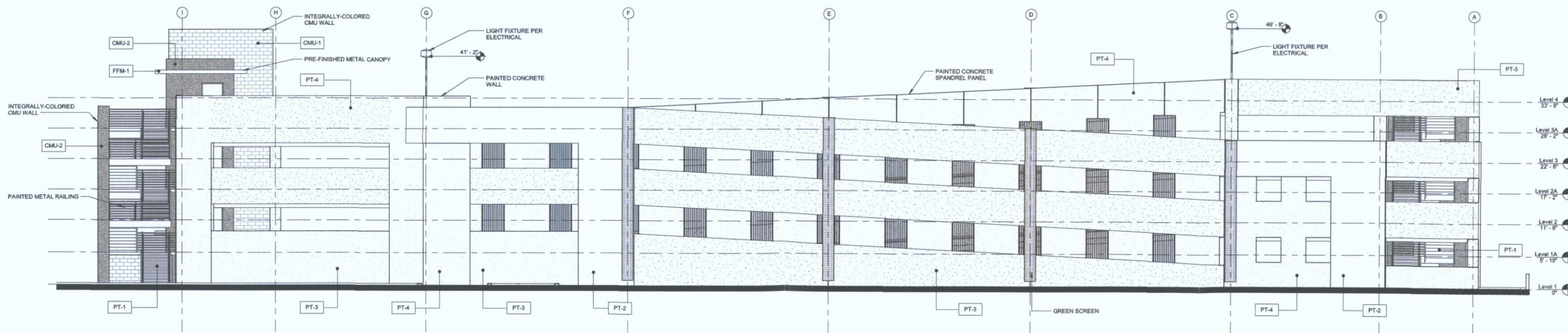
GARAGE 5 - LEVEL 4 FLOOR PLAN

MATERIAL LEGEND

Mark	Manufacturer	Product
CMU-1	Supertile	Integrally-Colored Smooth CMU, Color: Umber Brown
CMU-2	Supertile	Integrally-Colored Split-Face CMU, Color: Autumn
FFM-1	Alas	Pre-Finished Metal - 04 Chocolate Brown
PT-1	Dunn Edwards	Painted Metal: DE5042 "Bear in Mind", LRV 7
PT-2	Dunn Edwards	Painted Concrete: DE6064 "Roxy Brown", LRV 11
PT-3	Dunn Edwards	Painted Concrete: DE6075 "Wood Lake", LRV 24
PT-4	Dunn Edwards	Painted Concrete: DEC719 "Coral Clay", LRV 42



1 East Elevation
1/8" = 1'-0"



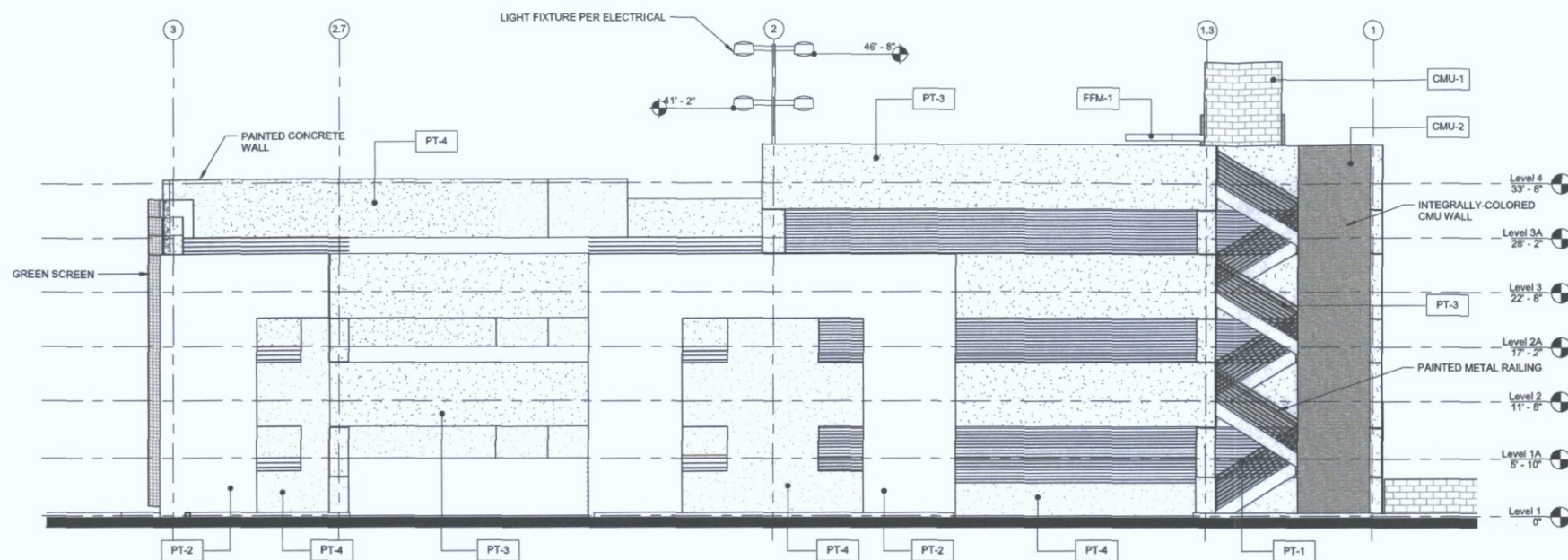
2 North Elevation
1/8" = 1'-0"



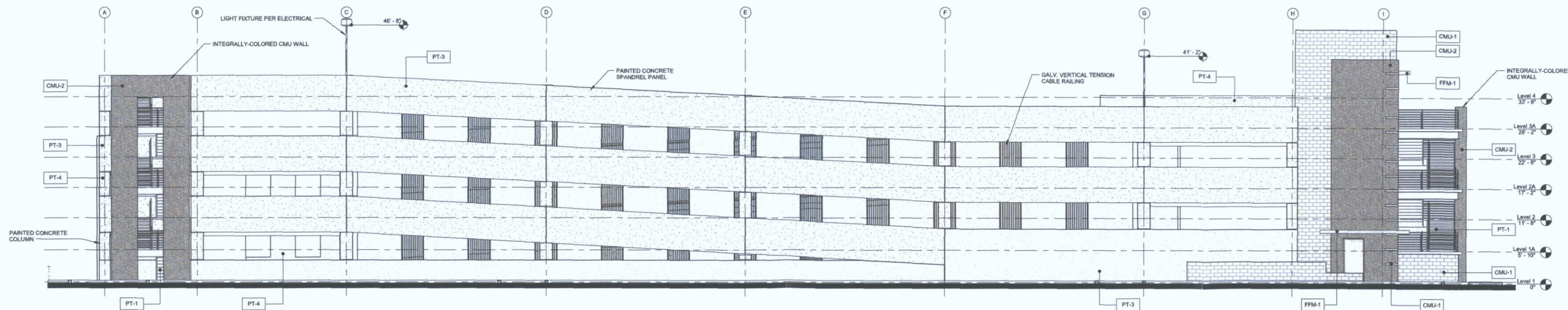
68-DR-2000#5
07/21/16

MATERIAL LEGEND

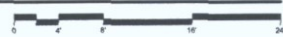
Mark	Manufacturer	Product
CMU-1	Supertile	Integrally-Colored Smooth CMU, Color: Umber Brown
CMU-2	Supertile	Integrally-Colored Split-Face CMU, Color: Autumn
FFM-1	Alas	Pre-Finished Metal - 04 Chocolate Brown
PT-1	Dunn Edwards	Painted Metal: DE6042 "Bear in Mind" LRV 7
PT-2	Dunn Edwards	Painted Concrete: DE6084 "Roxy Brown" LRV 11
PT-3	Dunn Edwards	Painted Concrete: DE6075 "Wood Lake" LRV 24
PT-4	Dunn Edwards	Painted Concrete: DEC719 "Coral Clay" LRV 42



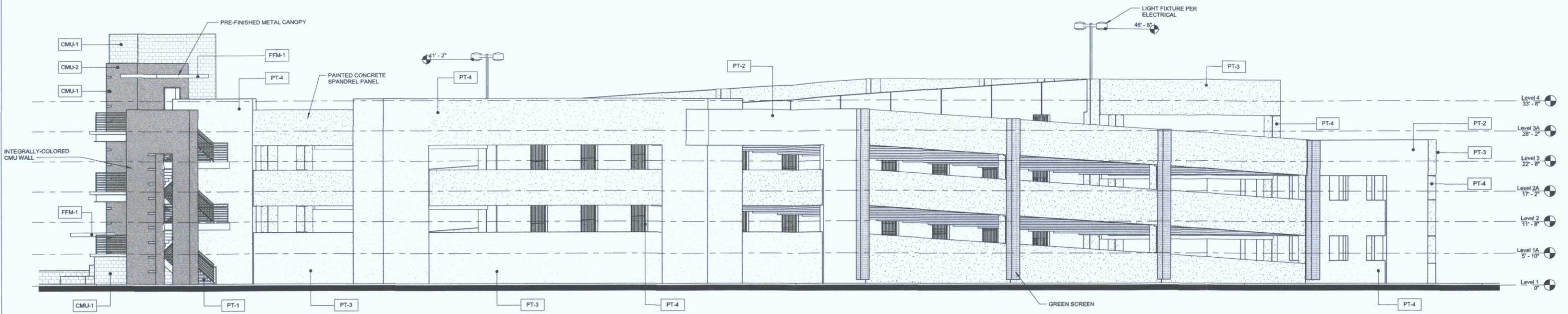
1 West Elevation
1/8" = 1'-0"



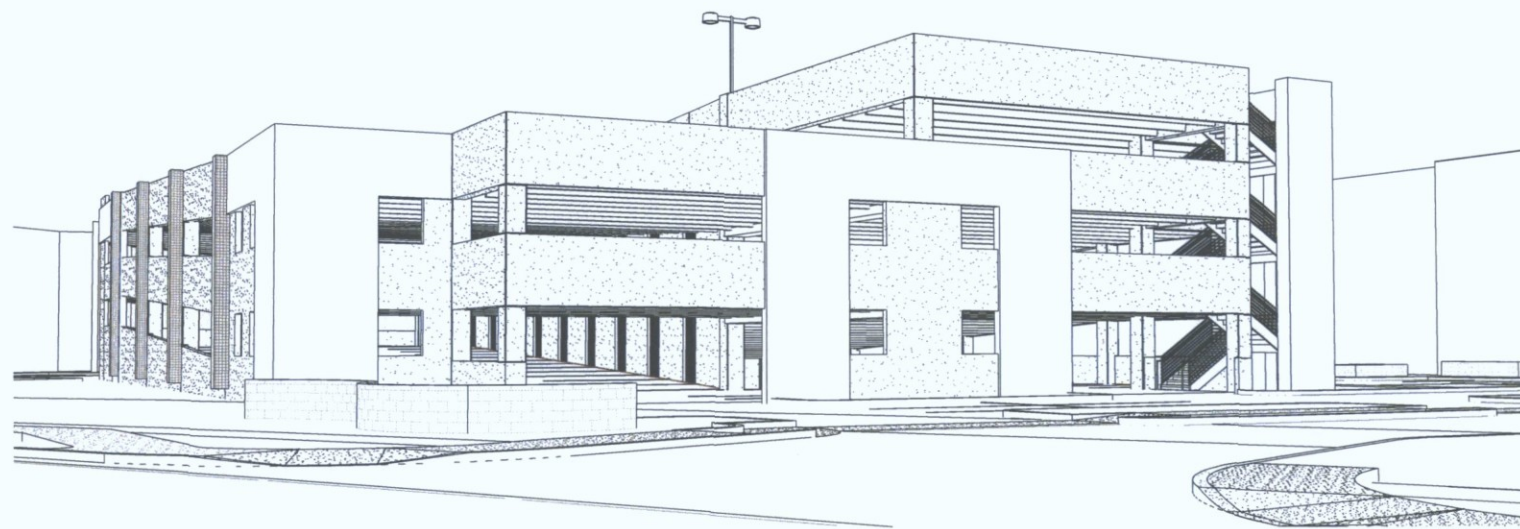
2 South Elevation
1/8" = 1'-0"



68-DR-2000#5
07/21/16



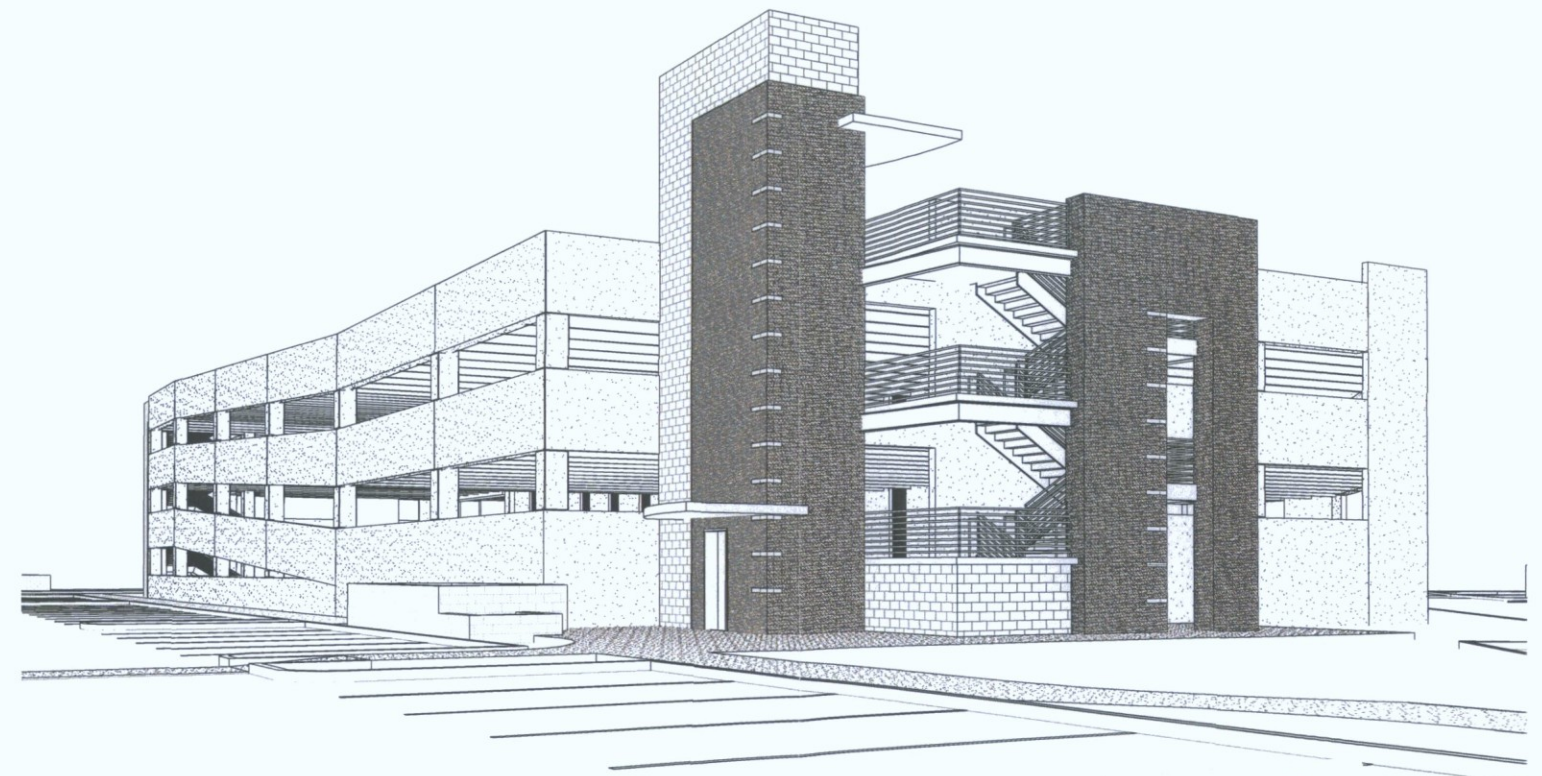
1 Northeast Elevation
1/8" = 1'-0"



2 View From Street

MATERIAL LEGEND

Mark	Manufacturer	Product
CMU-1	Superlite	Integrally-Colored Smooth CMU, Color: Umber Brown
CMU-2	Superlite	Integrally-Colored Split-Face CMU, Color: Autumn
FFM-1	Atlas	Pre-Finished Metal - 04 Chocolate Brown
PT-1	Dunn Edwards	Painted Metal: DE6042 "Bear in Mind", LRV 7
PT-2	Dunn Edwards	Painted Concrete: DE6084 "Roxy Brown" LRV 11
PT-3	Dunn Edwards	Painted Concrete: DE6075 "Wood Lake", LRV 24
PT-4	Dunn Edwards	Painted Concrete: DEC719 "Coral Clay" LRV 42

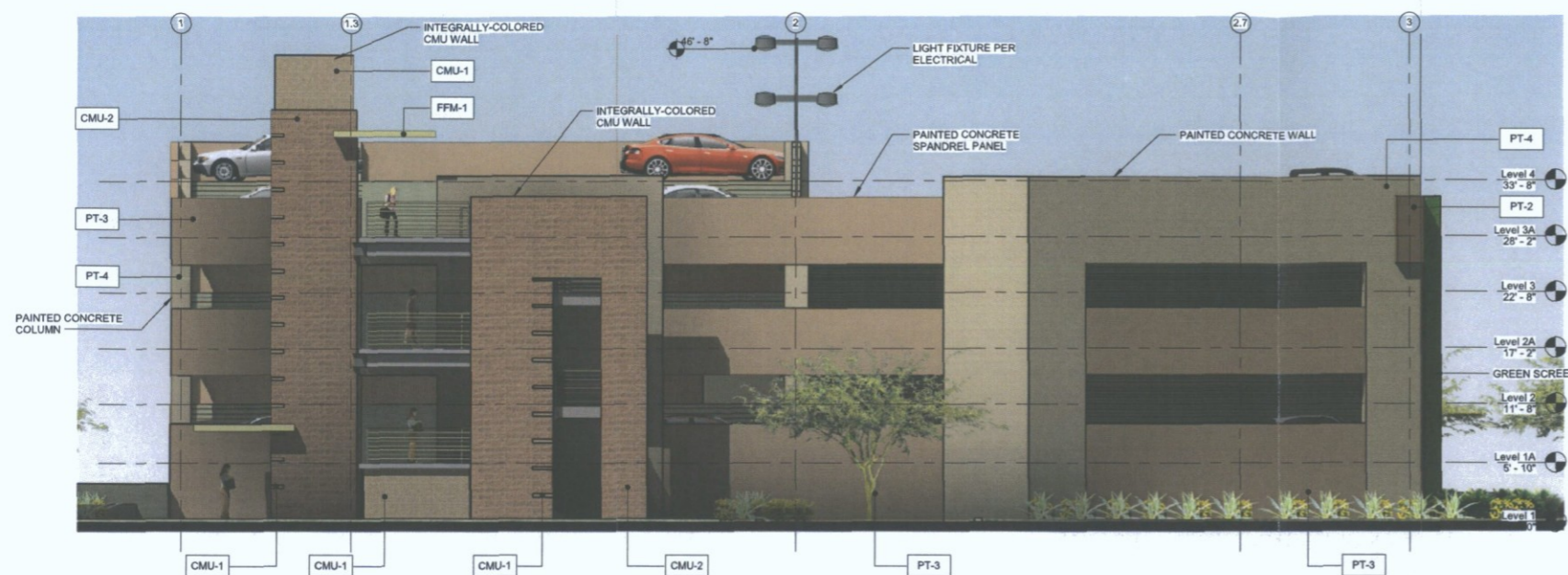


3 View From Parking Lot

68-DR-2000#5
07/21/16

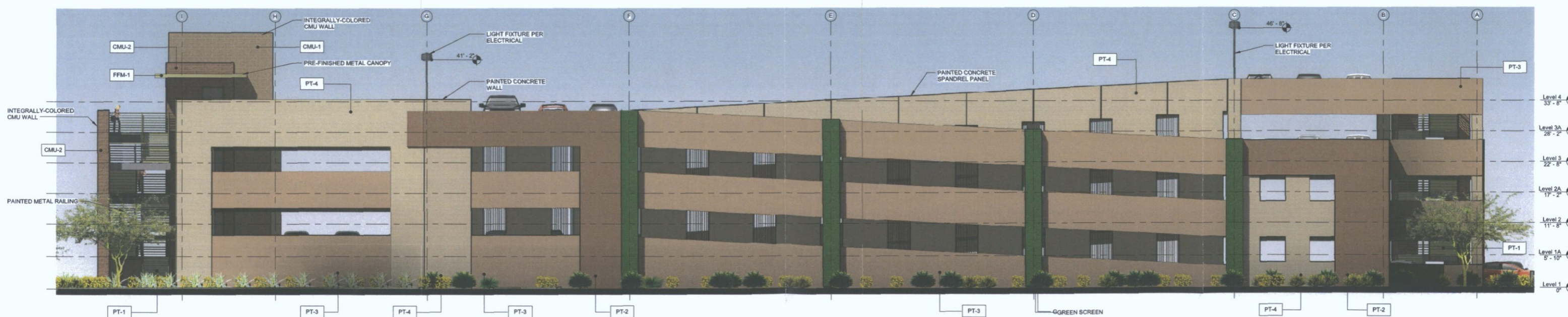
MATERIAL LEGEND

Mark	Manufacturer	Product
CMU-1	Supertite	Integrally-Colored Smooth CMU, Color: Umber Brown
CMU-2	Supertite	Integrally-Colored Split-Face CMU, Color: Autumn
FFM-1	Alas	Pre-Finished Metal - 04 Chocolate Brown
PT-1	Dunn Edwards	Painted Metal: DE6042 "Bear in Mind", LRV 7
PT-2	Dunn Edwards	Painted Concrete: DE6084 "Rosy Brown", LRV 11
PT-3	Dunn Edwards	Painted Concrete: DE6075 "Wood Lake", LRV 24
PT-4	Dunn Edwards	Painted Concrete: DEC719 "Coral Clay", LRV 42



1 East Colored Elevation

1/8" = 1'-0"



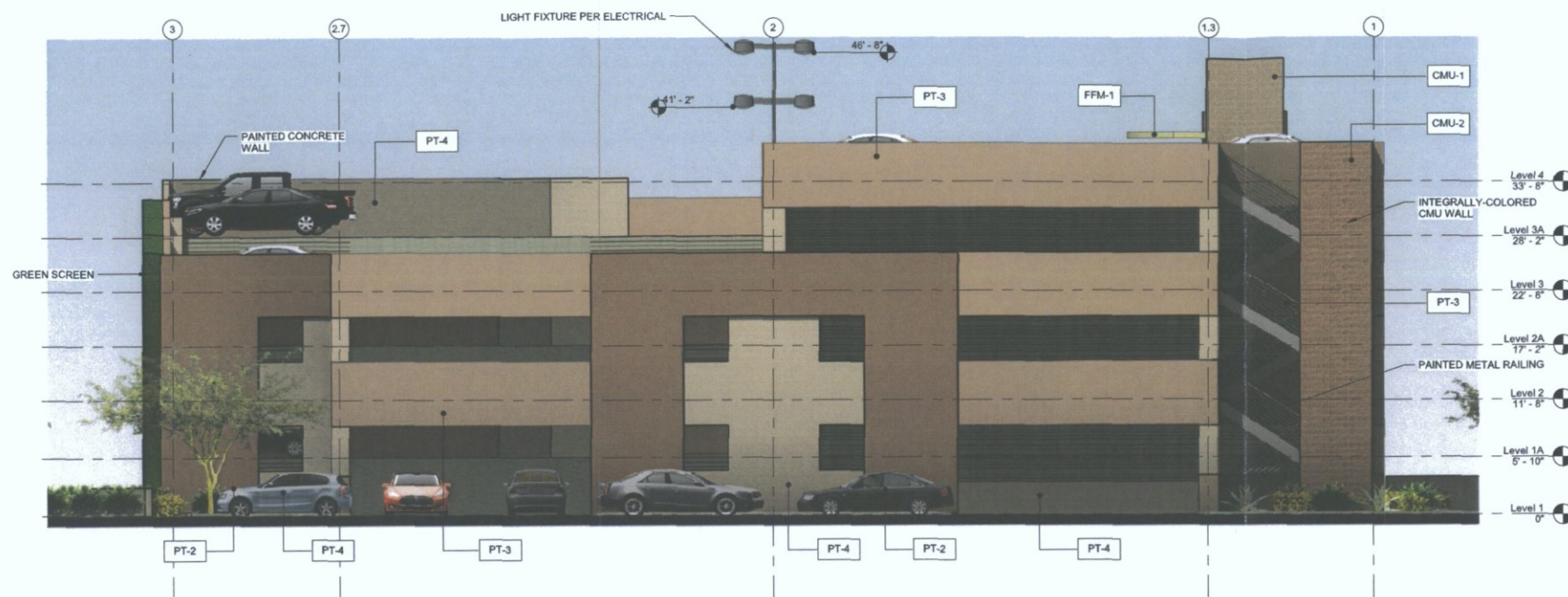
2 North Colored Elevation

1/8" = 1'-0"

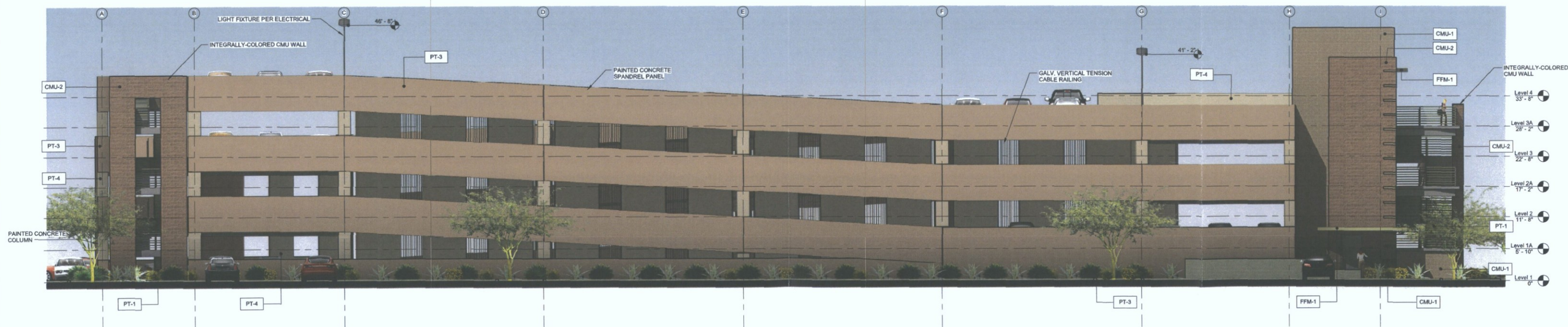
68-DR-2000#5
07/21/16

MATERIAL LEGEND

Mark	Manufacturer	Product
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CMU-2	Supelite	Integrally-Colored Split-Face CMU, Color: Autumn
FFM-1	Alas	Pre-Finished Metal - 04 Chocolate Brown
PT-1	Dunn Edwards	Painted Metal: DE6042 "Bear in Mind" LRV 7
PT-2	Dunn Edwards	Painted Concrete: DE6084 "Roxy Brown" LRV 11
PT-3	Dunn Edwards	Painted Concrete: DE6076 "Wood Lake" LRV 24
PT-4	Dunn Edwards	Painted Concrete: DEC719 "Coral Clay" LRV 42



1 West Colored Elevation
1/8" = 1'-0"



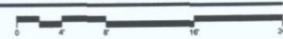
2 South Colored Elevation
1/8" = 1'-0"

68-DR-2000#5
07/21/16



1 Northeast Colored Elevation

1/8" = 1'-0"



2 View From Street

MATERIAL LEGEND

Mark	Manufacturer	Product
CMU-1	Superfile	Integrally-Colored Smooth CMU, Color: Umber Brown
CMU-2	Superfile	Integrally-Colored Split-Face CMU, Color: Autumn
FFM-1	Atlas	Pre-Finished Metal - 04 Chocolate Brown
PT-1	Dunn Edwards	Painted Metal: DE6042 "Bear in Mind", LRV 7
PT-2	Dunn Edwards	Painted Concrete: DE6084 "Rosy Brown", LRV 11
PT-3	Dunn Edwards	Painted Concrete: DE6075 "Wood Lake", LRV 24
PT-4	Dunn Edwards	Painted Concrete: DEC719 "Coral Clay" LRV 42



3 View From Parking Lot

68-DR-2000#5
07/21/16

ELECTRICAL SPECIFICATION

PERMITS AND FEES

MAKE APPLICATION AND PAY FOR PERMITS AND INSPECTIONS REQUIRED BY MUNICIPAL AND STATE AUTHORITIES.

ELECTRICAL DRAWINGS

DRAWINGS ARE DIAGRAMMATIC AND OUTLET LOCATIONS ARE APPROXIMATE. REFER TO MECHANICAL AND STRUCTURAL PLANS REGARDING AVAILABLE SPACE AND CHECK FIELD CONDITIONS BEFORE MAKING ELECTRICAL INSTALLATIONS. CIRCUIT OUTLETS AS INDICATED ON THE DRAWINGS, MAKING REVISIONS ONLY WITH THE EXPRESS CONSENT OF THE ARCHITECT.

SHOP DRAWINGS

SUBMIT SIX COPIES OF A DESCRIPTIVE BROCHURE FOR ALL LIGHTING FIXTURES AND DETAILED SHOP DRAWINGS OF PANEL, SERVICE ENTRANCE, DISTRIBUTION PANEL OR OTHER SPECIALLY FABRICATED EQUIPMENT TO THE ARCHITECT. NO SUCH EQUIPMENT SHALL BE MANUFACTURED UNTIL APPROVED BY THE ENGINEER AND WHERE APPLICABLE, THE SERVING UTILITY.

OBSERVATIONS

THE WORK WILL BE OBSERVED FOR COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS BY THE OWNER'S REPRESENTATIVE.

MATERIAL AND WORKMANSHIP

SHALL COMPLY WITH CURRENT ELECTRICAL AND MECHANICAL ENGINEERING PRACTICES. THE CURRENT ADDITION IN FORCE OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES SHALL GOVERN ALL WORK. PROVIDE NEW STANDARD PRODUCTS LISTED BY UL. SIMILAR ITEMS OF MATERIAL SHALL BE OF THE SAME TYPE AND MANUFACTURE. ALL EXPOSED CONDUIT AND DEVICES SHALL BE TRUE TO LINE, PLUMB, AND ADEQUATELY SECURED IN PLACE. ALL WIRING DEVICES, FIXTURES, AND PANELBOARDS SHALL BE PROTECTED FROM MOISTURE, PLASTER AND DUST DURING STORAGE AND BUILDING CONSTRUCTION.

EXISTING SERVICES AND REMODEL AREAS

THIS CONTRACTOR SHALL MAINTAIN ALL SERVICES, POWER, SOUND, TELEPHONE, ETC., TO EXISTING BUILDINGS OR AREAS. ANY INTERRUPTIONS OF SERVICES REQUIRED FOR "CUT-OVER" OR CONNECTIONS OF NEW CABLES, ETC., SHALL BE DONE AT A TIME THAT IS CONVENIENT TO THE OWNER AND SHALL BE APPROVED IN WRITING PRIOR TO THE INTERRUPTION.

ALL SERVICES TO EXISTING BUILDING THAT ARE INTERRUPTED OR DISCONNECTED BY THE NEW CONSTRUCTION SHALL BE REPLACED. ANY OUTLETS, SWITCHES, RECEPTACLES, ETC. THAT ARE DISCONNECTED OR REMOVED BY THE CONSTRUCTION OR REMODELING SHALL BE RECONNECTED AND/OR REPLACED.

GROUNDING

PROVIDE GROUNDING CONDUCTOR IN ALL RACEWAYS. SIZE SHALL BE AS INDICATED ON DRAWINGS IN ACCORDANCE WITH THE NEC AND ALL LOCAL CODES. BOND THE INTERIOR WATER PIPE SYSTEM TO THE MAIN ELECTRICAL GROUNDING SYSTEM.

CONDUIT

ALL WIRES (EXCEPT LOW VOLTAGE CONTROL CABLE) SHALL BE RUN IN EMT CONDUIT UNLESS NOTED OTHERWISE. MINIMUM CONDUIT SIZE SHALL 3/4" EXCEPT FOR LIGHTING WHIPS WHICH SHALL BE 1/2" MINIMUM.

TYPE MC CABLE MAY BE USED FOR BRANCH CIRCUITS WHERE HIDDEN IN WALLS AND FOR LIGHTING WHIPS.

RIGID GALVANIZED STEEL CONDUIT (RGSC) SHALL BE USED IN CONCRETE, WHERE SUBJECT TO DAMAGE, AND IN UNDERGROUND LOCATIONS. RGSC INSTALLED UNDERGROUND SHALL BE ENCASED IN TWO INCH MINIMUM CONCRETE ENVELOPE OR COMPLETELY COVERED WITH HALF-LAPPED #50 SCOTCH-WRAP OR TWO COATS OF KOPPEERS BITUMASTIC. TOP OF UNDERGROUND CONDUITS SHALL NOT BE LESS THAN 24".

PVC CONDUIT, UL LISTED, MAY BE USED FOR UNDERGROUND SECTIONS OF ELECTRICAL RACEWAYS. UNDERGROUND TO ABOVE GRADE TRANSITION ELBOWS SHALL BE RIGID GALVANIZED STEEL AND WRAPPED AS IN PARAGRAPH ABOVE.

THIN-WALL EMT SHALL BE EQUIPPED WITH COMPRESSION OR SET SCREW COUPLINGS AND T & B INSULINERS CONNECTORS.

ALL CONDUIT SHALL BE RIGIDLY SUPPORTED WITH DURABLE STRAPS AND HANGERS AT INTERVALS NOT TO EXCEED SIX FEET. COUPLINGS, CONNECTORS, AND LOCKNUTS SHALL BE TIGHTLY SECURED TO PROVIDE ELECTRICAL CONTINUITY OF GROUNDING.

OUTLET BOXES

GALVANIZED STEEL BOXES AT LEAST 1-1/2" DEEP AND 4" SQUARE SHALL BE PROVIDED IN FINISHED AREAS FOR EACH WALL SWITCH, RECEPTACLE, TELEPHONE AND LIGHTING FIXTURE LOCATION. BOXES SURFACE MOUNTED IN DRY LOCATIONS MAY BE 4 X 2 SIZE PROVIDING NOT MORE THAN FIVE WIRES ENTER.

WIRING DEVICES

CONVENIENCE RECEPTACLES AND GROUND FAULT INTERRUPTER RECEPTACLE, 20 AMPS, 125 VOLT GROUNDING TYPE, SINGLE-POLE AND THREE-WAY SWITCHES SHALL BE 120V, 20A AND HAVE COVER PLATES THAT MATCH RECEPTACLES. TELEPHONE WALL OUTLETS SHALL BE EQUIPPED WITH ONE-HOLE WALL PLATES; COLOR TO MATCH RECEPTACLES. APPROVED MANUFACTURERS: HUBBELL, COOPER, PASS AND SEYMOUR, LEVITON.

WIRE AND CABLE

CONDUCTORS SHALL BE SOFT DRAWN COPPER, WITH THW OR THHN/THWN 600V INSULATION EXCEPT WHERE OTHERWISE SPECIFIED OR INDICATED. WIRE SHALL BE #12 AWG MINIMUM EXCEPT LOW-VOLTAGE CONTROL WIRE MAY BE #16 PLASTIC INSULATED.

CONDUCTORS SHALL BE THE PRODUCT OF AN APPROVED MANUFACTURER SUCH AS CABELEC, GENERAL CABLE, HATFIELD, OKONITE, ROME, OR SOUTHWIRE; COLOR-CODED WITH MAKE, TYPE AND SIZE LEGIBLY AND DURABLY MARKED ON COVERING AT FREQUENT INTERVALS.

PANELBOARDS

PANELBOARDS SHALL BE BOLT-ON TYPE, WITH THERMAL MAGNETIC, QUICK-BREAK, QUICK-MAKE, FULL SIZE BREAKERS AND SPARES AS INDICATED ON THE DRAWINGS, EQUIVALENT TO SQUARE D, TYPE NQDD OR NF. COVERS SHALL BE DOOR-IN-DOOR TYPE.

FRONTS OF CABINETS SHALL BE FLUSH OR SURFACE MOUNTED AS SHOWN ON DRAWINGS WITH A DIRECTORY CARD NEATLY TYPED OR PRINTED WHICH IDENTIFIES THE LOADS SERVED. EXTERIOR PANELS SHALL HAVE RAIN-TIGHT ENCLOSURES EQUIPPED WITH LOCK.

MANUFACTURERS SHALL BE SQUARE D, GENERAL ELECTRIC, CUTLER-HAMMER, SIEMENS.

SAFETY SWITCHES

SHALL BE NEMA, HEAVY DUTY, QUICK-MAKE, QUICK-BREAK, SWITCHES EXPOSED OUTDOORS SHALL HAVE NEMA 3 RAIN-TIGHT ENCLOSURES.

MANUFACTURERS SHALL BE SQUARE D, GENERAL ELECTRIC, CUTLER-HAMMER OR SIEMENS.

FUSES

SHALL BE BUSSMAN FUSETRON, DUAL-ELEMENT AND LOW-PEAK TYPES OR TYPE INDICATED ON DRAWINGS. PROVIDE THREE SPARE FUSES OF EACH TYPE AND RATING USED TO THE OWNER AS SPARES.

LUMINAIRES

PROVIDE LUMINAIRES COMPLETE WITH LAMPS, BALLASTS, MOUNTING DEVICES, TRIM RINGS, CEILING ADAPTORS, LENSES AND OTHER OPTIONS AS INDICATED ON DRAWINGS. LAMPS SHALL BE GE, OSRAM/SYLVANIA, PHILIPS OR APPROVED EQUIVALENT. BALLASTS SHALL BE OSRAM/SYLVANIA, ADVANCE, MOTOROLA, UNIVERSAL OR APPROVED EQUIVALENT.

MOTOR AND CONTROL WIRING

PROVIDE WIRE TO AND CONNECT MOTORS INDICATED ON THE DRAWINGS WHICH ARE NOT PRE-WIRED BY THE SUPPLIER OF THE EQUIPMENT.

CONTROL WIRING AND CONDUIT FOR HVAC RELATED EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

IDENTIFICATION

PROVIDE ENGRAVED PLASTIC LABELS FOR NEW ELECTRICAL PANELS AND CABINETS. LABELS SHALL BE BLACK LETTERS ON A WHITE BACKGROUND. EMERGENCY SYSTEM LABELS SHALL BE WHITE LETTERS ON A RED BACKGROUND. ATTACH WITH MACHINE SCREWS OR SELF TAPPING SCREWS WITH TIPS FILED FLAT. PROVIDE WARNING TAPE IN TRENCHES FOR SERVICE ENTRANCE AND PANEL FEEDERS. LABEL EACH CABINET, PULL BOX, JUNCTION BOX AND OUTLET BOX WITH SOURCE AND CIRCUIT NUMBER.

AS-BUILT DRAWINGS

MAINTAIN ONE SET OF PRINTS ON THE JOB SHOWING LOCATIONS OF UNDERGROUND CONDUITS AND DUCTS. PROVIDE THE ARCHITECT WITH ONE SET OF SUCH "AS-BUILTS" ACCURATE, NEAT AND LEGIBLE DRAWINGS UPON COMPLETION OF THE WORK.

THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL FURNISHED BY HIM AND ALL WORKMANSHIP UNDER THIS CONTRACT FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF WORK UNDER THIS CONTRACT. ANY DEFECTS DEVELOPING WITHIN THIS PERIOD TRACEABLE TO MATERIAL FURNISHED AS A PART OF THIS CONTRACT OR WORKMANSHIP PERFORMED HEREUNDER, SHALL BE MADE GOOD PROMPTLY AT THIS CONTRACTOR'S EXPENSE.

THIS CONTRACTOR SHALL ACCEPT THIS CONDITION AND FULLY UNDERSTAND ITS PROVISIONS PRIOR TO THIS CONTRACT BEING AWARDED AND NO CLAIM FOR EXTRA COMPENSATION WILL BE ALLOWED FOR CORRECTION OF FAULTY WORK OR REPLACING DEFECTIVE MATERIAL.

END OF SECTION

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
LIGHTING		ONE LINE DIAGRAM	
	SURFACE MOUNTED STRIP FLUORESCENT LUMINAIRE		TRANSFORMER
	COVE LIGHTING		CIRCUIT BREAKER WITH FRAME SIZE/NUMBER OF POLES AND TRIP SETTING
	WALL WASH LUMINAIRE		DISCONNECT SWITCH WITH DISCONNECT SIZE AND NUMBER OF POLES
	RECESS OR SURFACE MOUNTED CAN LUMINAIRE		FUSE WITH FUSE SIZE AND TYPE
	WALL MOUNTED LUMINAIRE		METER
	EMERGENCY LUMINAIRE/NIGHT LIGHT		CURRENT TRANSFORMER
	ILLUMINATED EXIT SIGN. ARROW INDICATES DIRECTION OF EGRESS. SHADING INDICATES NUMBER AND DIRECTION OF FACES ON UNSWITCHED CIRCUIT.		BOLTED CONNECTION
	EMERGENCY LIGHT WITH BATTERY BACK-UP ON UNSWITCHED CIRCUIT.		GROUND CONNECTION
	POLE MOUNTED LUMINAIRE, NUMBER OF LUMINAIRE HEADS AS NOTED ON PLANS.		PANELBOARD WITH MAIN LUGS ONLY
	SWITCH (* INDICATES DEVICE) o = LOWER CASE TEXT INDICATES EQUIPMENT BEING CONTROLLED NO TEXT = SINGLE POLE 3 = 3 WAY 4 = 4 WAY D = DIMMER SWITCH		PANELBOARD WITH MAIN CIRCUIT BREAKER
POWER			EQUIPMENT FEEDER SIZE (SEE FEEDER SCHEDULE)
	SINGLE RECEPTACLE	ABBREVIATIONS	
	DUPLEX RECEPTACLE	ABBREV	DESCRIPTION
	ABOVE COUNTER OR BACKSPLASH MOUNTED RECEPTACLE	A, AMP	AMPERE
	FOURPLEX RECEPTACLE	AC	ALTERNATING CURRENT
	HALF SWITCHED DUPLEX RECEPTACLE	AIC	AMPERAGE INTERRUPTING CAPABILITY
	FLUSH FLOOR MOUNTED OUTLET. DEVICE AS INDICATED.	AFF	ABOVE FINISH FLOOR
	CLOCK OUTLET, 85" ABOVE FINISHED FLOOR TO CENTERLINE OR AS NOTED.	AFG	ABOVE FINISH GRADE
	SPECIAL RECEPTACLE (FOR VOLTAGE AND RATING TYPE SEE DRAWINGS)	AL	ALUMINUM
	SURFACE MOUNTED RACEWAY; MULTI-OUTLET ASSEMBLY.	ATS	AUTOMATIC TRANSFER SWITCH
	JUNCTION BOX	BLDG	BUILDING
	MOTOR OUTLET	C	CONDUIT
	FUSED DISCONNECT SWITCH. NF INDICATES NON-FUSED.	CB	CIRCUIT BREAKER
	120/208V PANELBOARD, SURFACE OR FLUSH MOUNTED PER PANELBOARD SCHEDULE.	CDT	CIRCUIT
	TRANSFORMER	CLG	CEILING
	TELEPHONE MOUNTING BOARD WITH #6 COPPER GROUND	CT	CURRENT TRANSFORMER
	TIME CLOCK	CU	COPPER
	EQUIPMENT CONNECTION	DISC	DISCONNECT
	HOME RUN TO PANEL OR LOCATION NOTED. CROSS MARKS DENOTE QUANTITY OF #12 AWG COPPER CONDUCTORS, UNLESS NOTED OTHERWISE. LONG CROSSMARK DENOTES NEUTRAL CONDUCTOR. ALL CONDUIT RUNS SHALL INCLUDE AN INSULATED GREEN CODE GAUGE GROUNDING CONDUCTOR (NOT SHOWN).	DN	DOWN
	WIRE/CONDUIT TURNED UP	DWG	DRAWING
	WIRE/CONDUIT TURNED DOWN	E	EXISTING EQUIPMENT TO REMAIN
	CIRCUIT CONTINUATION	EA	EACH
	CONDUIT STUB-OUT WITH CAP CIRCUIT	EC	EMPTY CONDUIT
	CONDUIT RUN BELOW GRADE OR FLOOR SLAB	EDF	ELECTRIC DRINKING FOUNTAIN
	CONDUIT RUN CONCEALED IN CEILING OR WALL	ELEC	ELECTRIC OR ELECTRICAL
	CONDUIT RUN EXPOSED	EM	EMERGENCY
COMMUNICATION SYSTEMS		EMT	ELECTRICAL METALLIC TUBING
	DATA OUTLET	EQUIP	EQUIPMENT
	VOICE OUTLET	ER	EXISTING EQUIPMENT TO BE RELOCATED
	COMBINATION VOICE AND DATA OUTLET	EXIST	EXISTING
	FLUSH FLOOR MOUNTED OUTLET. DEVICE AS INDICATED.	FA	FIRE ALARM
	TELEVISION OUTLET	FBO	FURNISHED BY OTHERS
		FLA	FULL LOAD AMPS
		FLR	FLOOR
		GEN	GENERATOR
		GFI	GROUND FAULT CIRCUIT INTERRUPTER
		GFP	GROUND FAULT PROTECTION
		GND, G	GROUND
		GRS	GALVANIZED RIGID STEEL CONDUIT
		HOA	HAND OFF AUTOMATIC
		HP	HORSEPOWER
		HZ	HERTZ
		IG	ISOLATED GROUND
		IMC	INTERMEDIATE METALLIC CONDUIT
		J-BOX, JB	JUNCTION BOX
		KVA	KILOVOLT-AMPERES
		KW	KILOWATT
		LTG	LIGHTING
		LBS	POUNDS
		MAX	MAXIMUM
		MCA	MINIMUM CIRCUIT AMPACITY
		MCB	MAIN CIRCUIT BREAKER
		MECH	MECHANICAL
		MFR	MANUFACTURER
		MH	MANHOLE
		MIN	MINIMUM
		MLO	MAIN LUGS ONLY
		MTD	MOUNTED
		N	NEW EQUIPMENT TO MATCH EXISTING OR AS SPECIFIED
		N/A	NOT APPLICABLE
		NC	NORMALLY CLOSED
		NEUT	NEUTRAL
		NF	NON-FUSED
		NIC	NOT IN CONTRACT
		NO	NORMALLY OPEN
		NO. OR #	NUMBER
		NTS	NOT TO SCALE
		PH OR Ø	PHASE
		PLBG	PLUMBING
		PVC	POLYVINYL CHLORIDE
		R	NEW LOCATION OF RELOCATED EQUIPMENT
		RECEPT	RECEPTACLE
		REF	REFERENCE
		REQD	REQUIRED
		REVISION	REVISION
		RM	ROOM
		SCHED	SCHEDULE
		SES	SERVICE ENTRANCE SECTION
		SPEC	SPECIFICATION
		SW	SWITCH
		SWBD	SWITCHBOARD
		SYS	SYSTEM
		TMB	TELEPHONE MOUNTING BOARD
		TSTAT	THERMOSTAT
		TYP	TYPICAL
		UG	UNDERGROUND
		UNO	UNLESS NOTED OTHERWISE
		UPS	UNINTERRUPTABLE POWER SUPPLY
		V	VOLT
		VFD	VARIABLE FREQUENCY DRIVE
		W	WATT
		WP	WEATHERPROOF
		X	EXISTING EQUIPMENT TO BE REMOVED
		XP	EXPLOSION PROOF
		XFMR	TRANSFORMER

68-DR-2000#5
07/21/16



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Phoenix, Arizona 85008
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ELECTRICAL LEGEND AND SPECIFICATIONS

DFDG Project No. 1613
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7.14.16
Wentworth Properties
E101

MILLENNIUM™ ROUND
MR13 SERIES - LOW PROFILE HOUSING

PRODUCT FEATURES:

- Surface mount - ceiling hole with MR13(x) or wall
- 12" dia. x 4.75"
- Acrylic lens - impact resistant
- Acrylic lens - impact resistant
- Dust and water protected to IP64 standard
- ADA compliant

SPECIFICATIONS:

HOUSING: Marine grade die-cast aluminum. Integral flange brackets and wings around lens base producing maximum moisture deflection and resistance to air intrusion. Removable lens with tamper resistant bolts, one integral bayonet and tamper resistant lens mounting bracket. See installation sheet. Standard matte black, dark bronze or white with optional TSC powder coat color. > 1000 pm maximum. See Ordering Information for optional finish.

REFLECTOR: Full reflective cover - 87% reflectivity.

LENS: UV stabilized, high impact resistant, virgin injection molded polycarbonate. High efficiency bonded fused lens maintains uniformity. Clear tolerance pushback/lock-in place mating of injection molded lens and lens base. Lens and lens base secured with one concealed optical "Tie" with outer pin feature.

LENS MOUNTING: High impact resistant, injection molded epoxy black, dark bronze or white polycarbonate. Optional Light Gray, Silver, Forest Green or Custom Color base. Ordering information located on technical literature, impact resistant finish.

GEOMETRY: Die cast, closed end response with adhesive gasket with heatseal to mounting surface. Closed end, silicone "O" ring gasket positioned and friction secured in gasket channel of lens base, facilitating and optional surface adapter.

FINISH: One stainless steel "Tie" with center pin feature.

ELECTRICAL: Available in 3000K, 4000K, and 5000K color temperatures, 80 CRI, 120-277VAC, 50/60Hz electrical input with high power factor electronic, constant current driver (> 90 PF), Standard 0.1% dimming with 1-10V, single triacless driver source of 200 uA.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-09 standard by an IAC/ISO/IEC accredited laboratory. For additional photometric information, go to www.kimlight.com.

WARRANTY: One (1) year warranty against defects in materials and workmanship. Five (5) year warranty on LED lamps and driver for defects resulting in a failure based on degradation of 80% or more.

LISTINGS: Luminaire is certified to UL Standards by either Underwriters Laboratory or Intertek Testing Laboratory. For More Location Listing includes Emergency Battery Pack "LE" option, UL certified IP64 per IEC 60598, ADA compliant.

ORDERING INFORMATION (See MR13C, PP-ANN-20L40K-DV)

Model: MR13L, MR13C, MR13E, MR13W, MR13R, MR13T, MR13S, MR13G, MR13B, MR13Y, MR13Z, MR13A, MR13P, MR13Q, MR13V, MR13H, MR13J, MR13K, MR13M, MR13N, MR13O, MR13U, MR13X, MR13L1, MR13L2, MR13L3, MR13L4, MR13L5, MR13L6, MR13L7, MR13L8, MR13L9, MR13L10, MR13L11, MR13L12, MR13L13, MR13L14, MR13L15, MR13L16, MR13L17, MR13L18, MR13L19, MR13L20, MR13L21, MR13L22, MR13L23, MR13L24, MR13L25, MR13L26, MR13L27, MR13L28, MR13L29, MR13L30, MR13L31, MR13L32, MR13L33, MR13L34, MR13L35, MR13L36, MR13L37, MR13L38, MR13L39, MR13L40, MR13L41, MR13L42, MR13L43, MR13L44, MR13L45, MR13L46, MR13L47, MR13L48, MR13L49, MR13L50, MR13L51, MR13L52, MR13L53, MR13L54, MR13L55, MR13L56, MR13L57, MR13L58, MR13L59, MR13L60, MR13L61, MR13L62, MR13L63, MR13L64, MR13L65, MR13L66, MR13L67, MR13L68, MR13L69, MR13L70, MR13L71, MR13L72, MR13L73, MR13L74, MR13L75, MR13L76, MR13L77, MR13L78, MR13L79, MR13L80, MR13L81, MR13L82, MR13L83, MR13L84, MR13L85, MR13L86, MR13L87, MR13L88, MR13L89, MR13L90, MR13L91, MR13L92, MR13L93, MR13L94, MR13L95, MR13L96, MR13L97, MR13L98, MR13L99, MR13L100.

1 SCALE: N.T.S. FIXTURE TYPE 'L1'

LUMINAIRE SCHEDULE

MARK	MANUFACTURER	CATALOG NO.	MOUNTING	VOLTS	LAMP	INITIAL LUMENS	LIGHT LOSS FACTOR (LLF)	DESCRIPTION
L1	KENALL	MR13EL PP XX 20L40K 277V	SURFACE	277	LED INCLUDED	871	.85	LOW PROFILE LED VANDAL RESISTANT FIXTURE
L2	KIM	STS3P70/40L4K277/XXX	POLE	277	LED INCLUDED	7754	.85	LED POLE MOUNTED FIXTURE
S1	RELOCATED	RELOCATED - TYPE 4 DISTRIBUTION	POLE	277	(1) 400W PSMH	42,000	0.7	RELOCATED POLE MOUNTED FIXTURE ON NEW CONCRETE BASE.
S2	KIM	2B/STL4/400PMH277/TSN	POLE	277	(1) 400W PSMH	42,000	0.7	DOUBLE HEAD POLE MOUNTED FIXTURE WITH TENSION ROD ON NEW CONCRETE BASE. FIXTURE SPECIFIED TO MATCH EXISTING ON SITE. CONTRACTOR TO VERIFY PRIOR TO PURCHASE.

ALTERNATES NOTE:
FIRST MANUFACTURE AND ASSOCIATED CATALOG NUMBER SHOWN INDICATES BASIS OF DESIGN. ALTERNATE MANUFACTURERS ARE SHOWN BY NAME ONLY. LUMINAIRES SUBMITTED AS ALTERNATES SHALL MATCH SIZE, PERFORMANCE, AND MATERIALS OF THE DESIGN BASE. ALTERNATES WILL BE SUBJECT TO SHOP DRAWING REVIEW FOR FINAL ACCEPTANCE.

KIM LIGHTING STS Structural Small PicoPrism™ LED 9/15/14 + M_styled_spec.pdf

Type: Job: Cat: Catalog number: 9/15/14 + M_styled_spec.pdf

Specifications

STS-LED

- 40 Light Emitting Diodes
- 48 total System Watts for 330mA
- 92 total System Watts for 700mA
- Maximum Weight = 45 lbs.

Housing: One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling fins on top surfaces above the optical chamber and electrical compartment. A solid barrier wall separates the optical and electrical compartments, with gasketed wire penetrations. A double-backed wall with gaskets is provided on the support arm mounting end. All hardware is stainless steel.

Frame: One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with a 1" minimum thickness around the gasket flange for rigidity. Integral hinges with stainless steel pins provide no-tool mounting and removal from the housing. Two stainless steel thumb-latches are recessed into the front corners, concealed from normal view. Frame seals against the housing by a one-piece extruded silicone gasket with vulcanized end closure.

Electronic Module: All electrical components are UL and CSA recognized, mounted on a single plate and factory pre-wired with quick-disconnect plugs. Module includes a driver, thermal control device and surge protector. Electrical module attaches to housing with no-tool hinges and latches, accessible by opening the frame end. Driver is rated for >50°F starting.

Optical Module: Precision, IP65 replaceable PicoPrism™ modules are positioned to achieve directional control toward desired task. The entire light engine is factory installed in the housing as a one-piece module.

Dimming: Driver has a 0-10V dimming interface with a dimming range of 10-100%. Approved dimmers include Lutron Diva AVTV, Lutron Nova NTV and NTFV. Note: Not compatible with current sourcing dimmers.

Support Arms: One-piece extruded aluminum with internal bolt guides. Luminaires-to-pole attachment is by integral draw bolts, and includes a pole reinforcing plate with stain relief. For mounting to round poles, arm is circular cut for precise mating to the pole diameter.

Finish: Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triplexed isocyanate (TIC) polymer powdercoat finish. Standard colors include (BL) Black, (DB) Dark Bronze, (WH) White, (PS) Platinum Silver, (CG) Stealth Gray, (LG) Light Gray, and (CC) Custom Color (Include RAL#).

Listed: See 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 Bay Area provisions within AB94.

Warranty: Kim Lighting warrants Structural LED products ("Product") sold by Kim Lighting to be free from defects in material and workmanship for (i) a period of five (5) years for metal parts, (ii) a period of ten (10) years for exterior housing paint finishes, (iii) a period of six (6) years for LED Light Engines (PicoPrism and lens) and a period of five (5) years for LED power components (LED Driver, LifeShield™ device), from the date of sale of such goods to the buyer as specified in Kim Lighting shipment documents for each product. Occupancy sensors, surge protector, dimmers and relay wiring components are covered by the manufacturer's 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/personal injury.

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE

2 SCALE: N.T.S. FIXTURE TYPE 'L2'

KIM LIGHTING STS Structural Small PicoPrism™ LED 9/15/14 + M_styled_spec.pdf

Type: Job: Cat: Catalog number: 9/15/14 + M_styled_spec.pdf

Standard Features

Mounting: SBV is available for round poles only.

Plan View:

EP: 1.1, 2.2, 1.5, 2.6, 2.6, 2.7, ...

Cat. No.: 18A, 28B, 28L, 38T, 38Y, 48C, 1W

Electrical Module

Cat. Nos. for Electrical Modules Available:

40L, xK, xxx

Source: 40L = 40 LEDs

Color Temperature:

- 2K = 5000m - Amber
- 3K = 3000K
- 4K = 4000K
- 5K = 5100K

*120V through 277V is a variable driver.

Finish

TGC powdercoat

Color: Black, Dark Bronze, Light Gray, Stealth Gray, Platinum Silver, White, Custom Color

Cat. No.: BL, DB, LG, BG, PS, WH, CC

*Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description:

3 SCALE: N.T.S. FIXTURE TYPE 'L2'

KIM LIGHTING STS Structural Small PicoPrism™ LED 9/15/14 + M_styled_spec.pdf

Type: Job: Cat: Catalog number: 9/15/14 + M_styled_spec.pdf

Lumen Data

Spectroradiometric

	3000K Average	4200K Average	5100K Average
Correlated Color Temp. CCT (K)	2800K - 3175K	3900K - 4600K	4600K - 5600K
Color Rendering Index (CRI)	>90	>90	>85
Power Factor	>90	>90	>90

Projected Lumen Maintenance

	50,000 hrs	100,000 hrs
330 mA	96.68%	94.51%
700 mA	93.57%	89.89%

Electrical Drive Current

Volts - AC	330mA		700mA	
	Ampere - AC	System Watts	Ampere - AC	System Watts
120	0.28	46	0.27	43
208	0.22	46	0.48	62
240	0.19	46	0.38	52
277	0.17	46	0.33	52
347	0.13	46	0.27	52
480	0.10	46	0.19	52

U.S.G. Rating for 300mA (TM13) in Lumen when B = Backlight, U = Uplight, G = Glare

Temperature	Type I	Type II	Type III	Type III NFO	Type IV	Type IV NFO	Type V	Type L/B
3000K	B1 L/B G2	B2 L/B G2	B1 L/B G1	B1 L/B G2	B0 L/B G2	B0 L/B G2	B3 L/B G3	B2 L/B G2
4200K	B1 L/B G3	B2 L/B G2	B1 L/B G2	B1 L/B G2	B0 L/B G2	B0 L/B G2	B3 L/B G3	B2 L/B G2
5100K	B1 L/B G3	B2 L/B G2	B2 L/B G2	B1 L/B G2	B0 L/B G2	B0 L/B G2	B3 L/B G3	B2 L/B G2

Absolute Lumens for 300mA

Temperature	Type I	Type II	Type III	Type III NFO	Type IV	Type IV NFO	Type V	Type L/B
3000K	3747	3844	3834	3742	3727	3785	3746	3656
4200K	4678	4811	4998	4913	4614	4791	4630	4538
5100K	4967	4881	4817	4798	4941	4868	4998	4949

U.S.G. Rating for 700mA (TM13) in Lumen when B = Backlight, U = Uplight, G = Glare

Temperature	Type I	Type II	Type III	Type III NFO	Type IV	Type IV NFO	Type V	Type L/B
3000K	B1 L/B G3	B2 L/B G2	N/A	N/A	B0 L/B G2	B0 L/B G2	B3 L/B G3	B2 L/B G2
4200K	B1 L/B G3	B3 L/B G3	B2 L/B G2	B2 L/B G2	B1 L/B G2	B0 L/B G2	B3 L/B G3	B3 L/B G3
5100K	B1 L/B G3	B3 L/B G3	B2 L/B G2	B2 L/B G2	B1 L/B G2	B0 L/B G2	B3 L/B G3	B3 L/B G3

Absolute Lumens for 700mA

Temperature	Type I	Type II	Type III	Type III NFO	Type IV	Type IV NFO	Type V	Type L/B
3000K	6247	6274	6315	5493	6279	5844	6430	6131
4200K	7912	7870	7734	6956	7902	7211	8131	7765
5100K	8270	8176	8046	7227	8209	7492	8447	8067

LED performance and lumen output continue to improve as a result of LED aging. Log onto www.kimlighting.com to download the most current photometric data from Kim Lighting's LED File Library. For complete rights and color temperature configurations, contact factory.

68-DR-2000#5
07/21/16

KIM LIGHTING **STL**
400W Large Structural™
revision 04/08/15 • k_lathid_spec.pdf

Type:
Job:
Catalog number:
Approvals:
Date: **Page: 1 of 9**

150 to 400 watt
Mogul Base Lamps

Specifications

Housing: One-piece die-cast, low copper (0.6% Cu) aluminum alloy with integral cooling fins on top surfaces above the optical chamber and electrical compartment. A solid barrier wall separates the optical and electrical compartments, with gasketed wire penetrations. A double-thick wall with gaskets is provided on the support arm mounting end. All hardware is stainless steel.

Lens Frame: One-piece die-cast, low copper (0.6% Cu) aluminum alloy with a 1" minimum thickness around the gasket flange for rigidity. Integral hinges with stainless steel pins provide relock mounting and removal from the housing. Two stainless steel thumb-latches are recessed into the front corners, concealed from normal view. Lens frame seals against the housing by a one-piece extruded silicone gasket with vulcanized end closures. Clear 3/4" thick tempered flat glass is retained in the frame by eight clips with full silicone gasketing around the perimeter.

Reflector Module: Specular Alzax® optical segments are rigidly mounted in a die-cast, low copper (0.6% Cu) aluminum alloy frame which attaches to the housing as a one-piece module with captive stainless steel screws. Reflector module is field-adjustable in 30° increments. All HPS and pulse start lamps use 4KV mogul base sockets. All sockets are factory provided with a quick-disconnect plug for the ballast module, with wires passing through a silicone gasket in the housing barrier wall. Four light distributions are available and interchangeable within the same housing size.

Electrical Module: All electrical components are UL and CSA recognized, mounted on a single plate and factory provided with quick-disconnect plugs. Electrical module attaches to the housing with relock hinges and latches, accessible by opening the lens frame. All ballasts are high power factor with starting temperatures of -40°F for HPS and -20°F for PMS lamp modes.

Support Arms: One-piece extruded aluminum with internal bolt guides. Luminaire-to-pole attachment is by internal draw bolts, and include a pole reinforcing plate with wire strain relief. For mounting to round poles, arm is circular cut for precise mating to the pole diameter.

Finish/Color: Finish is super TGIC, thermostat polyester powder coat paint, 2.5 mil nominal thickness, applied over a fluorinated zirconium conversion coating, A.S.T.M. 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray™, Platinum Silver, or White. Custom colors are available.

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.

Listings and Ratings

UL, cUL, I598®	IP66 Rated	CE	25C Ambient
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Full Cut Off (for Class I and II) Cutoff (for Class I and II)

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KIM LIGHTING **STL**
400W Large Structural™
revision 04/08/15 • k_lathid_spec.pdf

Type:
Job:
Catalog number:
Approvals:
Date: **Page: 2 of 9**

Standard Features

Mounting
3Y is available for round poles only.

Figure
Cat. No. designates STL fixture and light distribution.

Finish
Super TGIC, powder coat paint over fluorinated zirconium conversion coating.

Plan View:

EPA:	2.2	4.4	2.8	5.0	5.0	5.3	—
Cat. No.:	<input type="checkbox"/> 1A	<input type="checkbox"/> 2B	<input type="checkbox"/> 2L	<input type="checkbox"/> 3T	<input type="checkbox"/> 3Y	<input type="checkbox"/> 4C	<input type="checkbox"/> 1W

Horizontal Lamp Flat Lens

Light Distribution:	Type I	Type II	Type III	Type IV	Type V
	Full Cutoff	Full Cutoff	Full Cutoff	Forward Throw Full Cutoff	Square Full Cutoff
Cat. No.:	<input type="checkbox"/> STL1	<input type="checkbox"/> STL2	<input type="checkbox"/> STL3	<input type="checkbox"/> STL4	<input type="checkbox"/> STL5

Color: Black, Dark Bronze, Light Gray, Stealth Gray™, Platinum Silver, White, Custom Color*
Cat. No.: BL DB LG BG PB WH CC
*Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description:

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KIM LIGHTING **STL**
400W Large Structural™
revision 04/08/15 • k_lathid_spec.pdf

Type:
Job:
Catalog number:
Approvals:
Date: **Page: 7 of 9**

Optional Features

Pole Mounted Structural Options
Cat. No. (See right)
 No Option

TS - Single Tension Rod: Rod has die-cast aluminum clevis which fasten to die-cast aluminum cleat. Fixture cleat is factory mounted and includes a silicone gasket. Pole cleat is field mounted, and is circular cut for precise mating to round poles. Rod diameter is .500". All fasteners are blackened stainless steel. All Kim poles are pre-drilled to accept fixture arm and tension rod cleat.

TBP Structural option rod and clevis detail is finished to match fixture.
TBN Structural option rod is stainless steel with nickel plated clevis.

Mounting: 1A 2B 2L 3T 3Y 4C
EPA: 2.3 4.6 2.9 5.2 5.2 5.5h

TD - Double Tension Rods: Rods have die-cast aluminum end brackets which fasten to die-cast aluminum cleat. Fixture cleat is factory mounted, and include silicone gaskets. Pole cleat is field mounted, and is circular cut for precise mating to round poles. Rod diameter is .500". All fasteners are blackened stainless steel. All Kim poles are pre-drilled to accept fixture arm and tension rod cleat.

TDP Structural option rod and clevis details are finished to match fixture.
TDN Structural option rods are stainless steel with nickel plated clevis.

Mounting: 1A 2B 2L 3T 3Y 4C
EPA: 2.35 4.7 2.85 5.3 5.3 5.6

TR - Truss: Cast aluminum truss is fastened to die-cast aluminum cleat. Fixture cleat is factory mounted, and includes a silicone gasket. Pole cleat are field mounted, and are circular cut for precise mating to round poles. Truss members are 1" square. All fasteners are blackened stainless steel. All Kim poles are pre-drilled to accept fixture arm and truss cleat.

TRO Structural option is finished to match fixture.

Mounting: 1A 2B 2L 3T 3Y 4C
EPA: 2.6 5.2 3.3 5.9 5.9 6.2

Pole Mounted Structural Options continued on page 8.

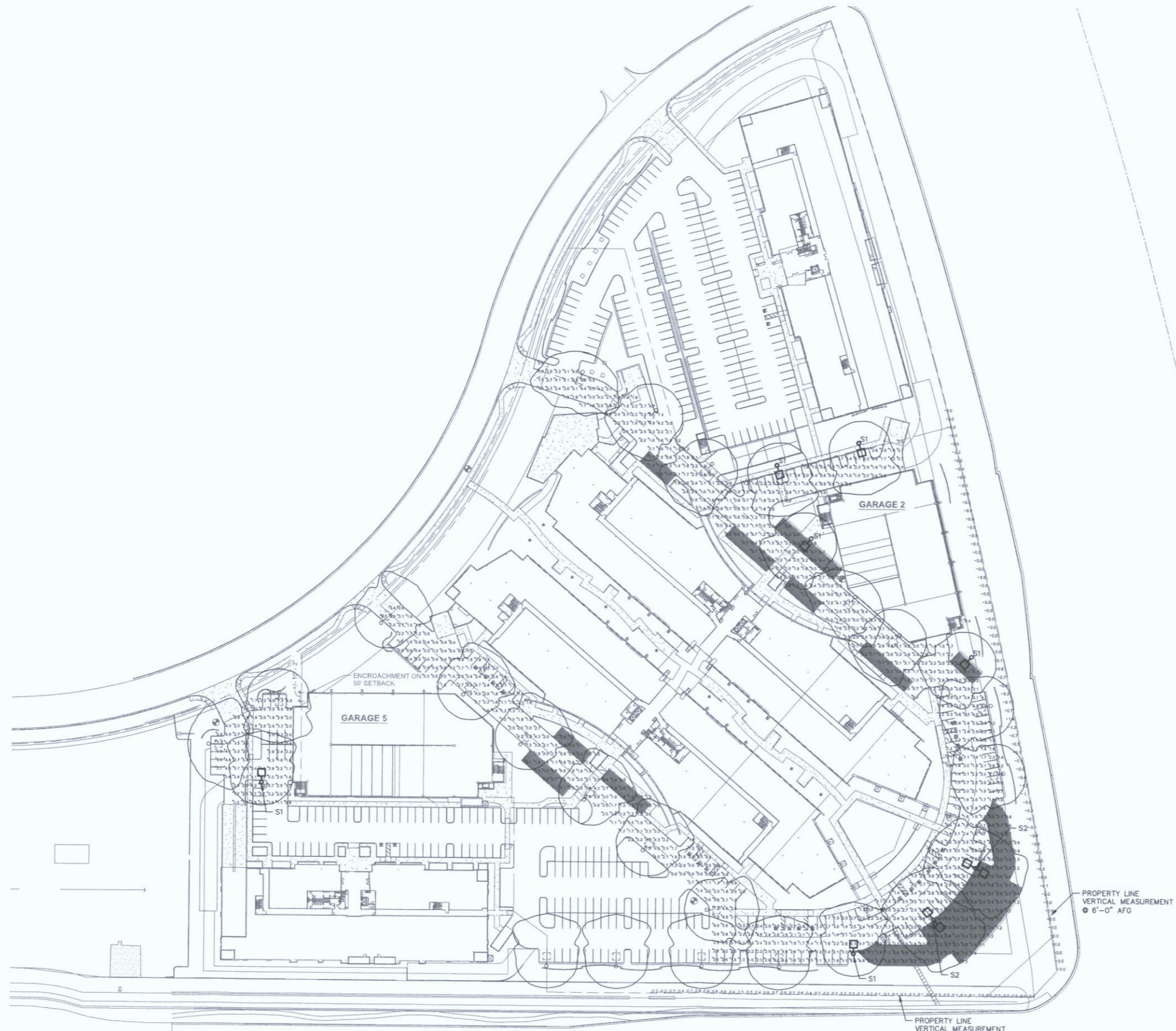
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1 SCALE: N.T.S. **FIXTURE TYPE 'S1', 'S2'**

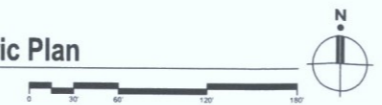
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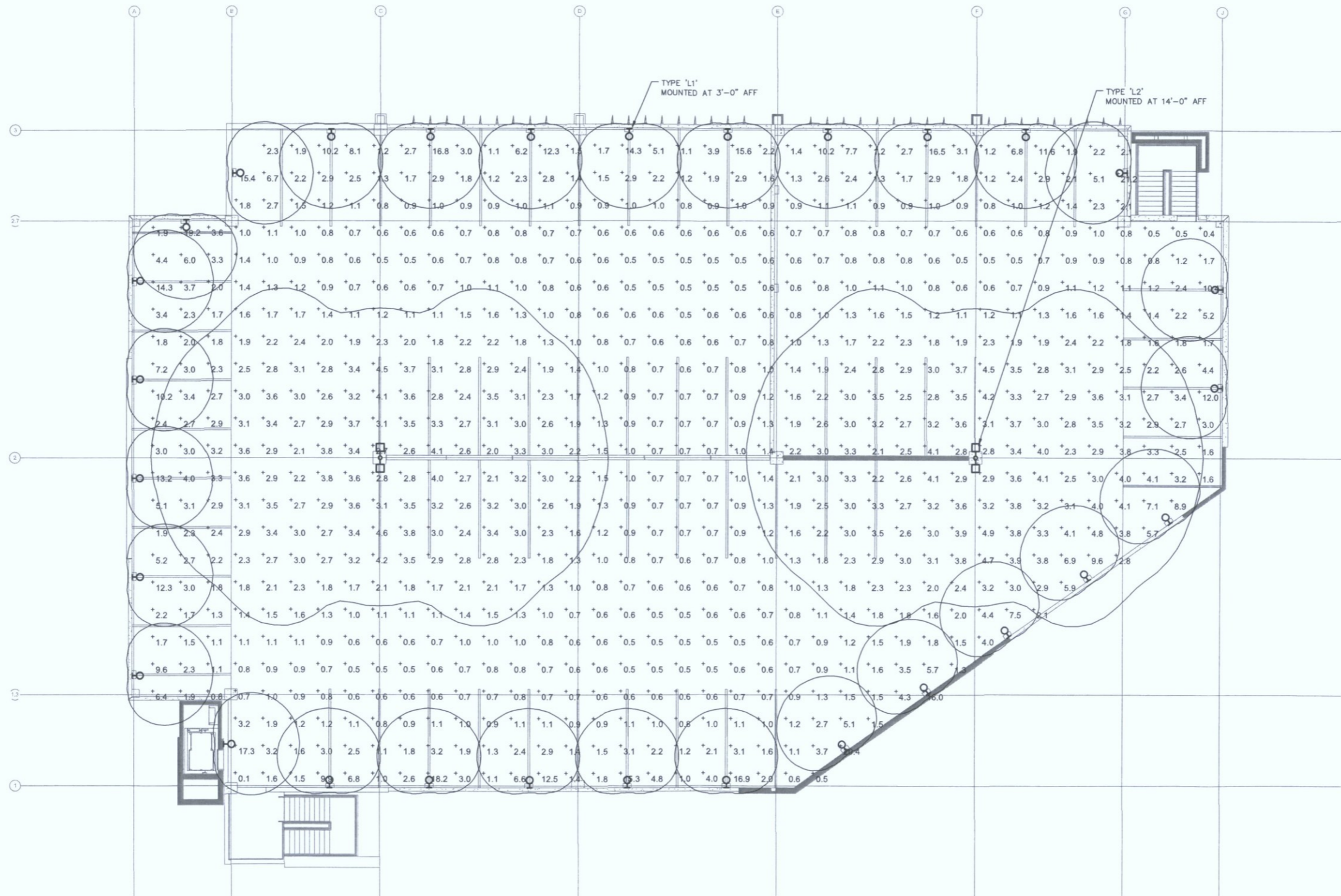
68-DR-2000#5
07/21/16



1 Site Photometric Plan
1" = 60'-0"

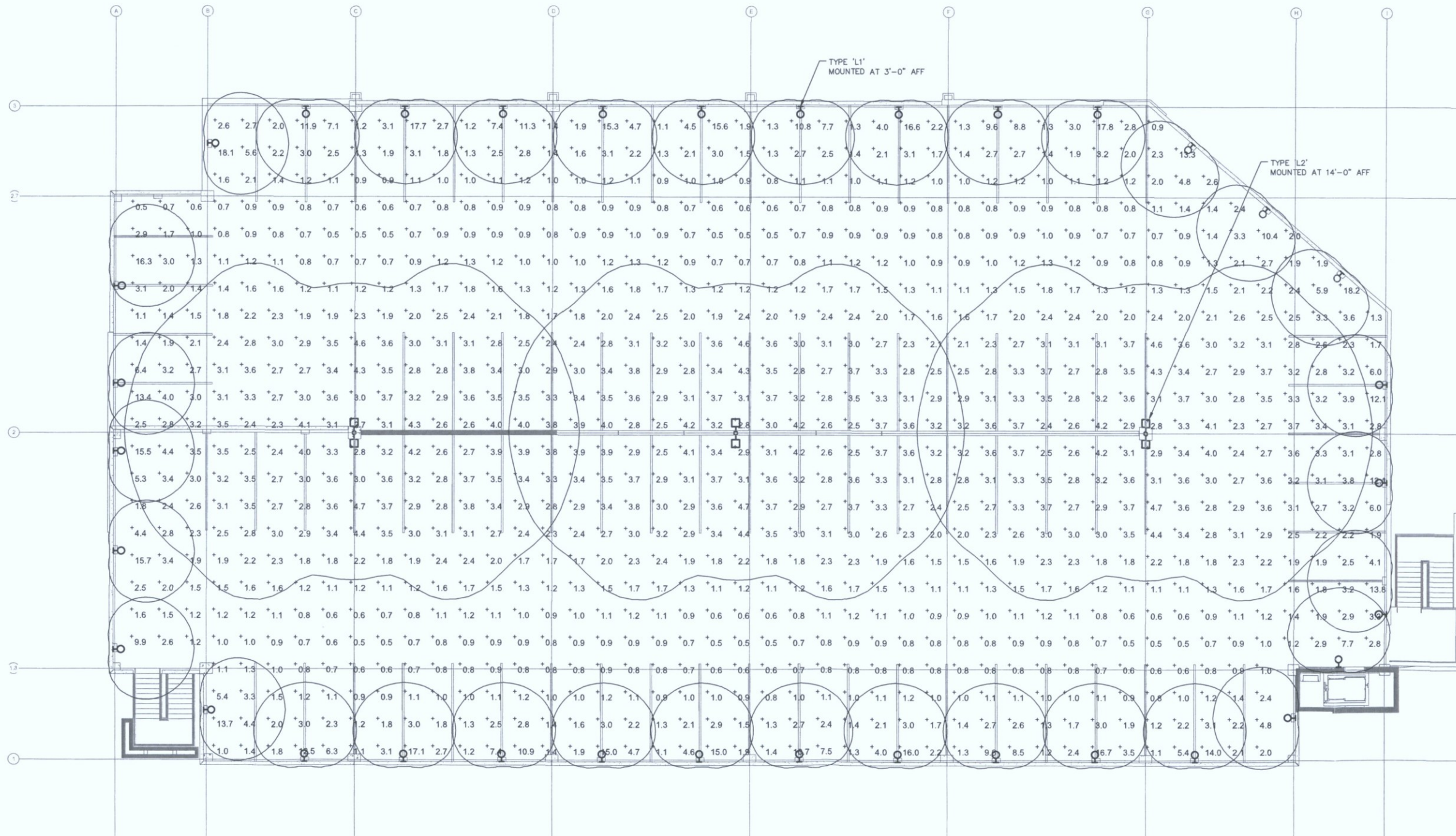


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1 Garage 2 Roof Photometric Plan
 1" = 10'-0"

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1 Garage 5 Roof Photometric Plan
 1" = 10'-0"

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GARAGE 5 ROOF PHOTOMETRIC PLAN

DFDG Project No. 1613
 PRELIMINARY NOT FOR
 CONSTRUCTION
 DOCUMENT CDD/REVISION 2016

7.14.16
 Wentworth Properties
 E203