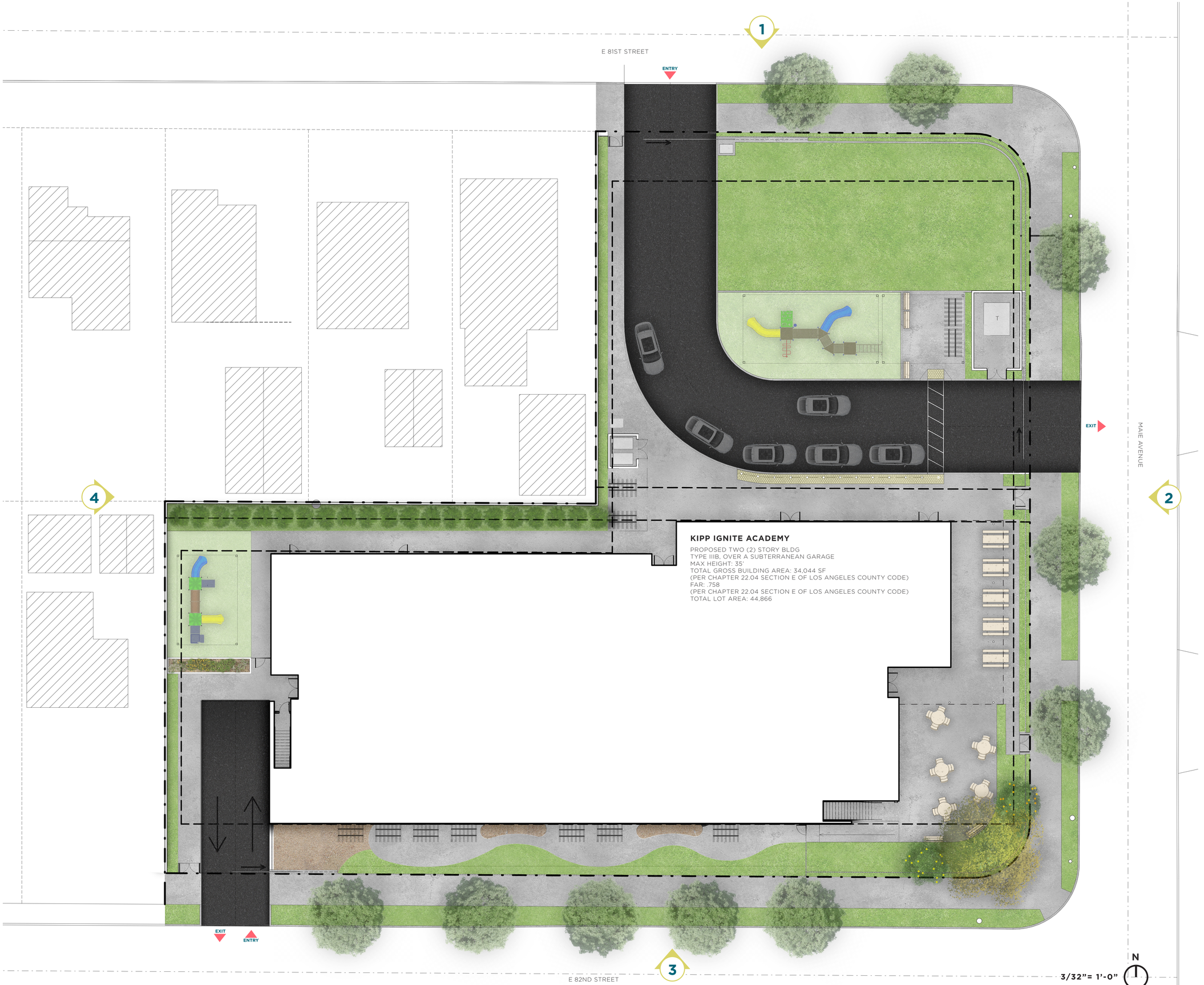


DATE PRINTED: 7/23/2020 4:39:06 PM

PROJECT

KIPP: IGNITE ACADEMY

1628 EAST 81ST STREET
LOS ANGELES, CA 90001

APN:
6027-003-022, -023, -024, -025, -027, -028, -029, -030, -031

CLIENT

KIPP : LA
3601 EAST FIRST STREET
LOS ANGELES, CA 90017

ARCHITECT

BERLINER
ARCHITECTS

5976 WASHINGTON BLVD
CULVER CITY, CA 90232
TEL 310.838.2100
EMAIL richardb@berliner-architects.com

CONSULTANTS

STRUCTURAL ENGINEER
KPFF
700 SOUTH FLOWER ST. SUITE 2100
LOS ANGELES, CA 90017
213-310-8520

MEP ENGINEER
DESIGN WEST ENGINEERING
275 WEST HOSPITALITY LANE, SUITE 100
SAN BERNARDINO, CA 92408
909-890-3700

CIVIL ENGINEER
BRANDOW & JOHNSTON
700 SOUTH FLOWER ST. SUITE 1800
LOS ANGELES, CA 90017
213-596-4500

LANDSCAPE ARCHITECT
OFFICE OF THE DESIGNED LANDSCAPE
1131 SUPERBA AVENUE
VENICE, CA 90291
213-364-7397

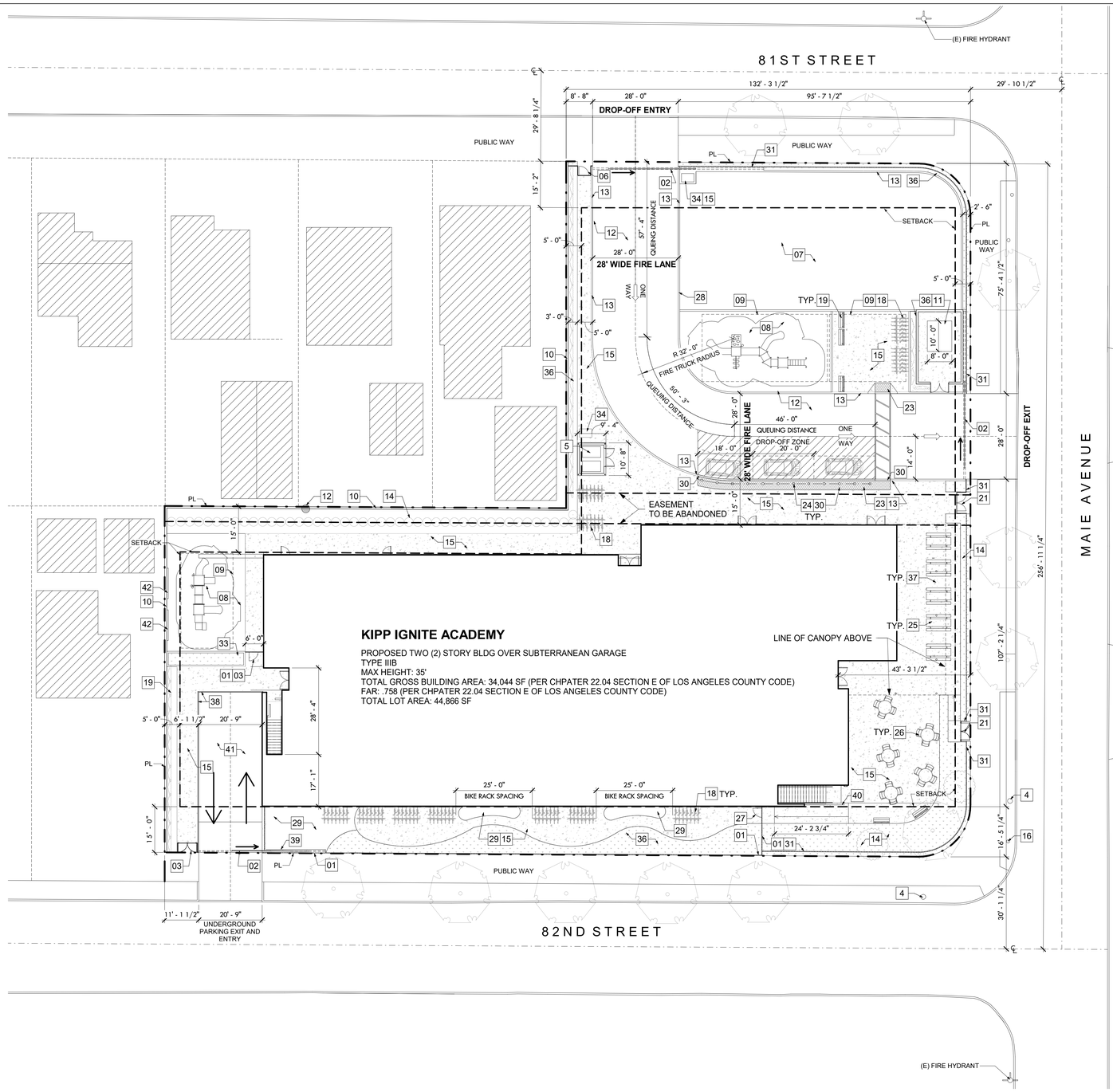
ISSUES

	SUBMITTAL	DATE
	SCHEMATIC DESIGN 100%	07/01/2020
	DESIGN DEVELOPMENT 100%	07/31/2020
	TRAFFIC SUBMITTAL	09/16/2020
	CUP SUBMITTAL	10/23/2020

18-46 **JOB NUMBER**

CUP - Rendered Site Plan

A0.30



KIPP IGNITE ACADEMY

PROPOSED TWO (2) STORY BLDG OVER SUBTERRANEAN GARAGE
TYPE IIIB
MAX HEIGHT: 35'
TOTAL GROSS BUILDING AREA: 34,044 SF (PER CHPATER 22.04 SECTION E OF LOS ANGELES COUNTY CODE)
FAR: .758 (PER CHPATER 22.04 SECTION E OF LOS ANGELES COUNTY CODE)
TOTAL LOT AREA: 44,866 SF

SITE - CUP Submittal
SCALE: 1/16" = 1'-0" | 1

SITE KEYNOTES

01 8'H WROUGHT IRON FENCE
02 8'H MOTORIZED AUTOMATIC VEHICULAR GATE, W/ KNOX BOX. GATE TO BE OPEN DURING DROP-OFF AND PICK UP TIMES. GATE TO BE CLOSED DURING SCHOOL HOURS
03 8' H WROUGHT IRON PEDESTRIAN GATE, WITH PANIC HARDWARE
04 (E) LIGHT POLE
05 8'H CMU TRASH ENCLOSURE, SPLIT FACE ONE SIDED W/CAP
06 8'H WROUGHT IRON PEDESTRIAN GATE WITH PANIC HARDWARE, AI PHONE, INTERCOM
07 SYNTHETIC TURF SEE LANDSCAPE DWGS
08 PLAY EQUIPMENT AREA, SEE LANDSCAPE DWGS
09 SHADE SAIL SEE LANDSCAPE DWGS
10 8'H CMU WALL; SPLIT FACE BOTH SIDES WITH CAP
11 8'X10' TRANSFORMER PAD PER SCE REQUIREMENTS
12 (E) POWER POLE
13 6" CONCRETE CURB
14 LANDSCAPING. SEE LANDSCAPE DWGS
15 CONCRETE PAVEMENT WALKWAY
16 (E) TRAFFIC LIGHT
17 LONG TERM BIKE LOCKERS, DERO BIKE LOCKER 22 OR SIMILAR
18 SHORT TERM BIKE RACKS
19 BENCH, SEE LANDSCAPE
20 8' H WROUGHT IRON PEDESTRIAN GATE WITH PANIC HARDWARE, LOCKSET ONLY
21 8' H WROUGHT IRON PEDESTRIAN GATE, DOOR TO RECEIVE ACCESS CARD READER, PANIC HARDWARE & BUZZER WITH KNOX BOX
22 BENCH SEATING, SEE LANDSCAPE DWG
23 TRUNCATED DOMES, SEE CIVIL DWG
24 BOLLARD
25 PICNIC TABLES, SEE LANDSCAPE DWGS
26 PATIO TABLES WITH SHADE UMBRELLAS, SEE LANDSCAPE DWGS
27 8'H WROUGHT IRON PEDESTRIAN GATE WITH LOCKSET ONLY
28 6" CONCRETE CURB
29 DECOMPOSED GRANITE, SEE LANDSCAPE DWGS
30 ZERO CURB DROP OFF AREA
31 8' H WROUGHT IRON FENCE WITH PERFORATED METAL PANEL
32 TRUNCATED DOMES W/CURB CUT, SEE CIVIL DWG
33 POLLINATOR GARDEN, SEE LANDSCAPE DWGS
34 PORTABLE BASKETBALL RIM
35 EQUIPMENT STORAGE
36 VINES, SEE LANDSCAPE DWGS
37 STEEL COLUMNS
38 42" STEEL GUARDRAIL
39 CONCRETE PAVEMENT WITH GATE TRACK
40 GUARDRAIL
41 VEHICULAR RAMP TO UNDERGROUND PARKING GARAGE
42 OUTDOOR CHALKBOARD PER LANDSCAPE DWG.

VICINITY MAP

SITE INFORMATION

PARKING CALCULATION
53 PROVIDED STALLS
35 STANDARD
11 COMPACT @ 40% MAX.
3 ADA (INCLUDING 1 VAN ADA)
4 EVCS (INCLUDING 1 VAN ADA EVCS)

PARKING REQUIREMENTS
1 PER CLASSROOM
1 x 24 CLASSROOMS = 24 PARKING SPACES

1 PER 5 OCCUPANTS OF LARGEST ASSEMBLY SPACE
155 OCC / 5 = 31 PARKING SPACES

5% PARKING REDUCTION
55 SPACES x 0.05 = -2 PARKING SPACES

TOTAL REQUIRED = 53 PARKING SPACES

SITE PLAN LEGEND

(E) EXISTING BUILDING. NOT A PART
LANDSCAPED AREA
(N) NEW CONCRETE PAVING
PL PROPERTY LINE
1 KEYNOTE
(N) NEW STREET TREE. UNLESS OTHERWISE NOTED. SEE LANDSCAPE PLAN
(N) NEW MEDIUM FRUIT TREE. UNLESS OTHERWISE NOTED. SEE LANDSCAPE PLAN

DATE PRINTED: 10/23/2020 3:32:11 PM

PROJECT

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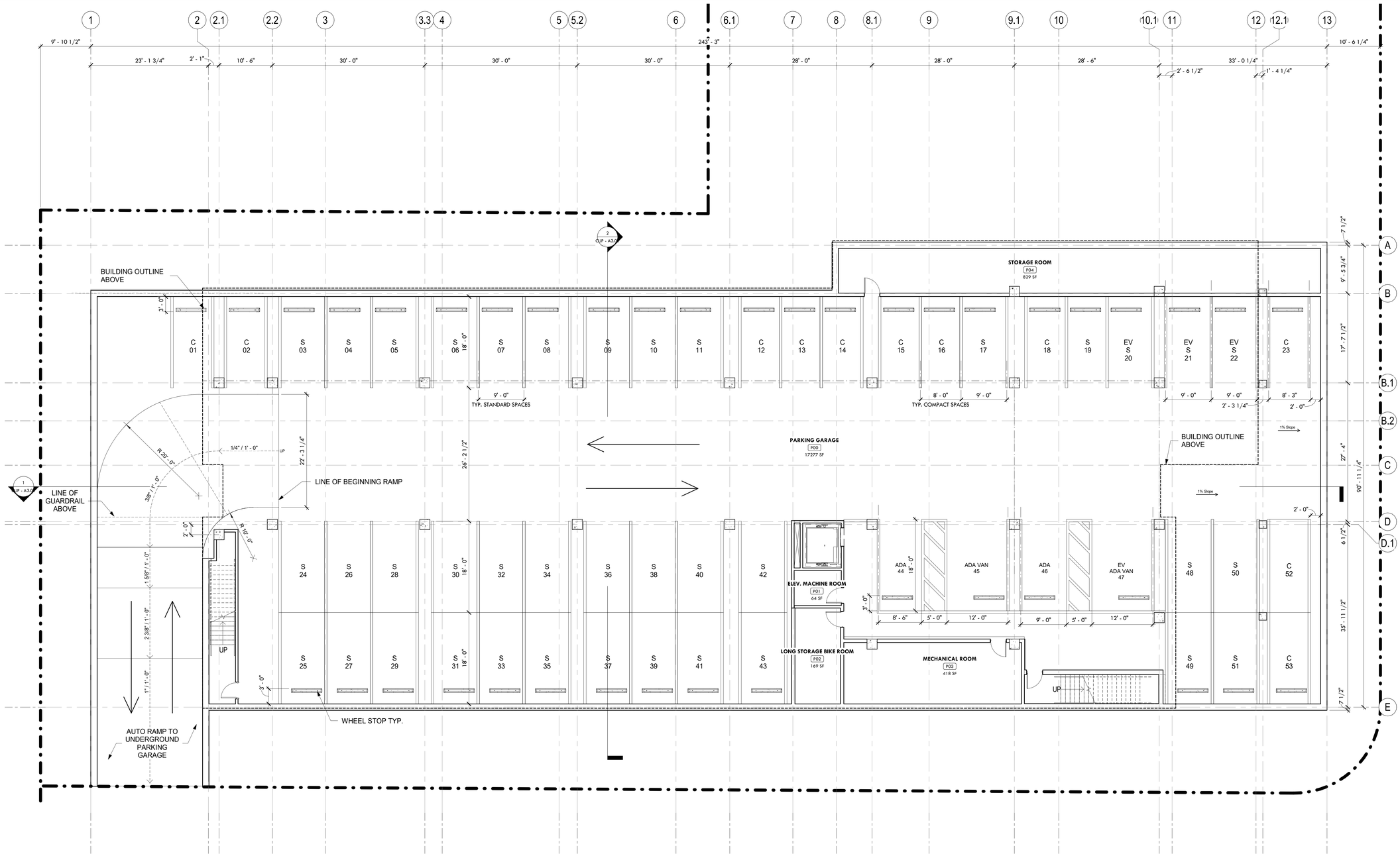
	DESIGN DEVELOPMENT 100%	07/31/2020
	TRAFFIC SUBMITTAL	09/16/2020
	CUP SUBMITTAL	10/23/2020

LICENSED ARCHITECT
RICHARD PATRICK BERLINER JR.
No. C-12629
9-30-19
RENEWAL DATE
STATE OF CALIFORNIA

18-46 **JOB NUMBER**

CUP - Site Plan

A0.31



PARKING INFORMATION

PARKING CALCULATION
53 PROVIDED STALLS
35 STANDARD
11 COMPACT @ 40% MAX.
3 ADA (INCLUDING 1 VAN ADA)
4 EVCS (INCLUDING 1 VAN ADA EVCS)

PARKING REQUIREMENTS
1 PER CLASSROOM
1 x 24 CLASSROOMS = 24 PARKING SPACES

1 PER 5 OCCUPANTS OF LARGEST ASSEMBLY SPACE
155 OCC / 5 = 31 PARKING SPACES

5% PARKING REDUCTION
55 SPACES x 0.05 = -2 PARKING SPACES

TOTAL REQUIRED = 53 PARKING SPACES

FLOOR PLAN LEGEND

- 1 HOUR RATED WALL PER TABLE 601
- CMU EXTERIOR WALL,
- NON RATED STUD PARTITION
- (E) EXISTING BUILDING
- LANDSCAPED AREA
- TACTILE PAVING, TRUNCATED DOMES
- (N) NEW CONCRETE FLAT WORK
- 100.8 — DOOR TAG, REFER TO DOOR SCHEDULE
- PL — PROPERTY LINE
- F.E.C. — FIRE EXTINGUISHER CABINET, SEE 6/A5.04 FOR DETAIL
- 11 — WINDOW TAG, FOR STOREFRONT ELEVATIONS ADJACENT TO DOORS, SEE DOOR TYPE ELEVATIONS
- 1 — FLOOR PLAN KEYNOTE
- Room name 101 — ROOM TAG
- 1 A0.00 — ELEVATION TAG
- AA — COLUMN GRID LINE NOTATION
- A / D / B / C — 1 A00.00 — INTERIOR ELEVATION REFERENCE
- 1 A0.00 — ENLARGED PLAN CALLOUT
- SIM — 1 A101 — WALL SECTION REFERENCE
- (N) NEW TREE. UNLESS OTHERWISE NOTED. SEE LANDSCAPE PLAN
- CLEAR ACCESSIBLE AREA
- PATH OF TRAVEL
- A' — WALL TYPE TAG SEE A5.03

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PROJECT

KIPP: IGNITE ACADEMY

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CULVER CITY, CA 90232
TEL 310.838.2100
EMAIL richardb@berliner-architects.com

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LOS ANGELES, CA 90017
213-310-8520

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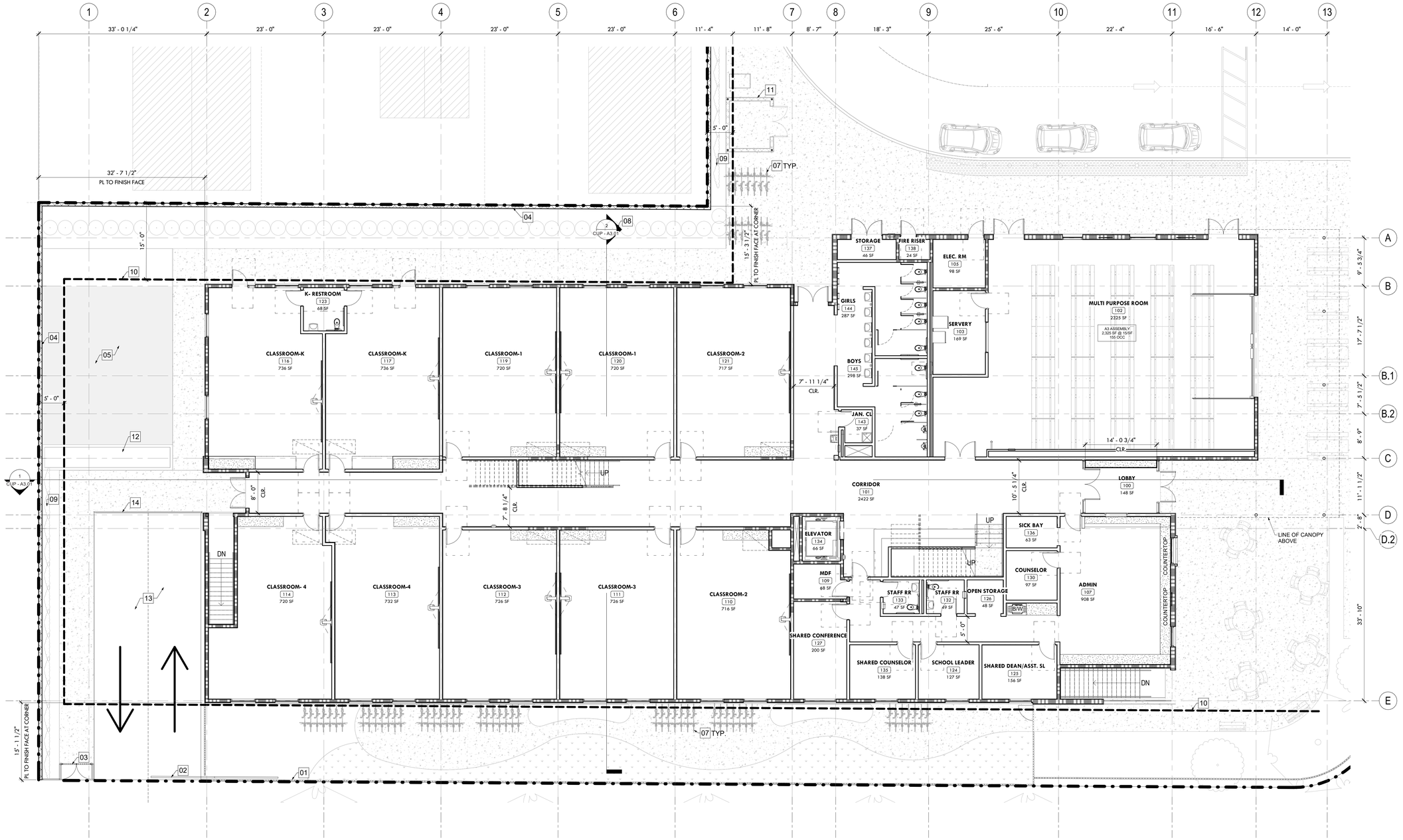
	DESIGN DEVELOPMENT 100%	07/31/2020
	TRAFFIC SUBMITTAL	09/16/2020
	CUP SUBMITTAL	10/23/2020

LICENSED ARCHITECT
RICHARD T. PAUL BERLINER
No. C-12723
9 - 2019
RENEWAL DATE
STATE OF CALIFORNIA

18-46 **JOB NUMBER**

CUP - Parking Plan

A1.20



FIRST FLOOR- CUP submittal
SCALE: 1/8" = 1'-0" | 1

FLOOR PLAN KEYNOTES

01 8' H WROUGHT IRON FENCE
02 8' H MOTORIZED AUTOMATIC VEHICULAR GATE, W/KNOX BOX
03 8'H WROUGHT IRON PEDESTRIAN GATE, SEE SITE PLAN FOR ADDITIONAL INFORMATION
04 8' H CMU WALL; SPLIT FACE BOTH SIDES WITH CAP
05 PLAY EQUIPMENT AREA WITH RUBBERIZED PLAYSURFACE, SEE LANDSCAPE DWGS
06 3500# HYDRAULIC ELEVATOR- SCHINDLER 330A WITH SMOKE GUARD SYSTEM M/200/400 FOR ELEVATOR DOOR.
07 SHORT TERM BIKE RACKS
08 LANDSCAPING, SEE LANDSCAPE
09 VINE MIX, SEE LANDSCAPE
10 SETBACK LINE
11 TRASH ENCLOSURE, SEE SITE PLAN
12 POLLINATOR GARDEN, SEE LANDSCAPE
13 CAR RAMP TO PARKING LEVEL
14 42"H STEEL GUARDRAIL

FLOOR PLAN LEGEND

- 1 HOUR RATED WALL PER TABLE 601
- CMU EXTERIOR WALL,
- NON RATED STUD PARTITION
- (E) EXISTING BUILDING
- LANDSCAPED AREA
- TACTILE PAVING, TRUNCATED DOMES
- (N) NEW CONCRETE FLAT WORK
- 100.8 — DOOR TAG, REFER TO DOOR SCHEDULE
- PL — PROPERTY LINE
- F.E.C. — FIRE EXTINGUISHER CABINET, SEE 6/A5.04 FOR DETAIL
- 11 — WINDOW TAG, FOR STOREFRONT ELEVATIONS ADJACENT TO DOORS, SEE DOOR TYPE ELEVATIONS
- 1 — FLOOR PLAN KEYNOTE
- Room name 101 — ROOM TAG
- 1 A0.00 — ELEVATION TAG
- AA — COLUMN GRID LINE NOTATION
- A / D / B / C A00.00 — INTERIOR ELEVATION REFERENCE
- 1 A0.00 — ENLARGED PLAN CALLOUT
- 1 A101 SIM — WALL SECTION REFERENCE
- (N) NEW TREE. UNLESS OTHERWISE NOTED. SEE LANDSCAPE PLAN
- CLEAR ACCESSIBLE AREA
- PATH OF TRAVEL
- A' — WALL TYPE TAG SEE A5.03

GENERAL FLOOR PLAN NOTES

1. REFER TO A2.24 FOR TYP. CLASSROOM INTERIOR ELEVATIONS
2. ALL EXTERIOR WALLS TO HAVE CONCRETE CURBS PER 5/A5.03
3. FLOOR SUBSTRATE IS SLAB ON GRADE CONCRETE. SUBSTRATE TO BE PREPARED FOR A SMOOTH APPLICATION OF THE FLOOR, FINISHED AND SEALED.
4. WALL CONSTRUCTION IS WOODSTUDS, WALLS TO BE STRAIGHT AND PLUMB, 1/4 / 1'-0" TOLERANCE
5. AUTOMATIC FIRE ALARM SYSTEM TO BE PROVIDED THROUGHOUT, REFER TO COVER SHEET
6. MONITORED FIRE SPRINKLER SYSTEM TO BE PROVIDED THROUGHOUT, REFER TO COVER SHEET
7. FOR TYPICAL WALL CURB DETAILS, REFER TO DETAILS A5.03
8. SEE ENLARGED PLANS FOR NOTES AND PARTITION TYPES WHERE KEYED.
9. FOR REFERENCE, FINISH FIRST FLOOR IS SET TO 0'-0"
10. MDF & IDF ROOM, ALL WALLS TO BE COVERED WITH 1" FIRE TREATED PLYWOOD TO 8' HIGH. PAINTED TO MATCH FINISH SCHEDULE
11. PROVIDE 16 GA. FLAT BACKING FOR PROJECTOR SCREENS, WHITE BOARDS, TACK BOARDS, AND MILLWORK FASTENED TO WALLS.
12. **PER 2016 CBC 1009.3 EXCEPTION #5, AREA OF REFUGE IS NOT REQUIRED IF BUILDING IS FULLY SPRINKLERED.
13. RESTROOMS TO HAVE A DEPRESESED SLAB, MINIMUM OF 2" TO ALLOW FOR A TILE FLOOR SLOPED TO FLOOR DRAINS
14. FOR LIGHT SWITCH AND THERMOSTAT LOCATIONS, REFER TO MEP DRAWINGS
15. SEE SHEET A6.01 AND A6.02 FOR DOOR AND WINDOW SCHEDULE. ALL FIRE RESISTIVE ASSEMBLIES FOR THE PROTECTION OF OPENING SHALL COMPLY WITH CBC 2017 SECTION 716
16. NOT USED
17. ALL RESTROOM WALLS TO HAVE GYP. BD TYPE "X", MOISTURE RESISTANT
18. EXTERIOR GYPSUM BOARD SHEATHING WHERE INDICATED ON WALL SECTIONS TO BE USG SHEET ROCK BOARD GYPSUM SHEATHING, WATER-REPELLANT FACE, 5/8" FIRE CORE, TYPE "X" GYPSUM CORE PER ASTM C1396.
20. ALL GYP. BD. THROUGHOUT TO BE TYPE "X".
21. ALL EXPOSED METAL FLASHING AND TRIM TO BE PAINTED. CONCEALED OR NON-EXPOSED FLASHING TO BE GALVANIZED.
22. ALL EXTERIOR WALLS TO HAVE R-24 BATT INSULATION. JOHNS MANVILLE, FORMALDAHYDE FREE, FOIL FACED.
23. ALL INTERIOR WALLS TO HAVE ACOUSTIC BATT INSULATION, JOHNS MANVILLE, FORMALDAHYDE FREE.
24. ALL FIRST FLOOR WOOD MEMBERS TO BE PRESSURE TREATED WHERE IN CONTACT WITH CONCRETE.

DATE PRINTED: 10/19/2020 3:40:07 PM

PROJECT

KIPP: IGNITE ACADEMY

1628 EAST 81ST STREET
LOS ANGELES, CA 90001

APN:
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ARCHITECT

BERLINER
ARCHITECTS
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CONSULTANTS

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KPFF
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213-364-7397

ISSUES

	SUBMITTAL	DATE
	SCHEMATIC DESIGN 100%	07/01/2020
	DESIGN DEVELOPMENT 100%	07/31/2020
	TRAFFIC SUBMITTAL	09/16/2020
	CUP SUBMITTAL	10/23/2020

18-46 **JOB NUMBER**

CUP - 1st Floor Plan

A1.21

SECOND FLOOR CUP submittal
SCALE: 1/8" = 1'-0" 1

FLOOR PLAN LEGEND

- 1 HOUR RATED WALL PER TABLE 601
- CMU EXTERIOR WALL,
- NON RATED STUD PARTITION
- (E) EXISTING BUILDING
- LANDSCAPED AREA
- TACTILE PAVING, TRUNCATED DOMES
- (N) NEW CONCRETE FLAT WORK
- 100.8 — DOOR TAG, REFER TO DOOR SCHEDULE
- PL — PROPERTY LINE
- F.E.C. — FIRE EXTINGUISHER CABINET, SEE 6/A5.04 FOR DETAIL
- 1t — WINDOW TAG, FOR STOREFRONT ELEVATIONS ADJACENT TO DOORS, SEE DOOR TYPE ELEVATIONS
- 1 — FLOOR PLAN KEYNOTE
- Room name 101 — ROOM TAG
- 1 A0.00 — ELEVATION TAG
- AA — COLUMN GRID LINE NOTATION
- A / D 1 A00.00 B / C — INTERIOR ELEVATION REFERENCE
- 1 A0.00 — ENLARGED PLAN CALLOUT
- 1 A101 SIM — WALL SECTION REFERENCE
- (N) NEW TREE. UNLESS OTHERWISE NOTED. SEE LANDSCAPE PLAN
- CLEAR ACCESSIBLE AREA
- PATH OF TRAVEL
- A' — WALL TYPE TAG SEE A5.03

GENERAL FLOOR PLAN NOTES

1. REFER TO A2.24 FOR TYP. CLASSROOM INTERIOR ELEVATIONS
2. ALL EXTERIOR WALLS TO HAVE CONCRETE CURBS PER 5/A5.03
3. FLOOR SUBSTRATE IS SLAB ON GRADE CONCRETE. SUBSTRATE TO BE PREPARED FOR A SMOOTH APPLICATION OF THE FLOOR, FINISHED AND SEALED.
4. WALL CONSTRUCTION IS WOODSTUDS, WALLS TO BE STRAIGHT AND PLUMB, 1/4 / 1'-0" TOLERANCE
5. AUTOMATIC FIRE ALARM SYSTEM TO BE PROVIDED THROUGHOUT, REFER TO COVER SHEET
6. MONITORED FIRE SPRINKLER SYSTEM TO BE PROVIDED THROUGHOUT, REFER TO COVER SHEET
7. FOR TYPICAL WALL CURB DETAILS, REFER TO DETAILS A5.03
8. SEE ENLARGED PLANS FOR NOTES AND PARTITION TYPES WHERE KEYED.
9. FOR REFERENCE, FINISH FIRST FLOOR IS SET TO 0'-0"
10. MDF & IDF ROOM, ALL WALLS TO BE COVERED WITH 1" FIRE TREATED PLYWOOD TO 8' HIGH. PAINTED TO MATCH FINISH SCHEDULE
11. PROVIDE 16 GA. FLAT BACKING FOR PROJECTOR SCREENS, WHITE BOARDS, TACK BOARDS, AND MILLWORK FASTENED TO WALLS.
12. **PER 2016 CBC 1009.3 EXCEPTION #5, AREA OF REFUGE IS NOT REQUIRED IF BUILDING IS FULLY SPRINKLERED.
13. RESTROOMS TO HAVE A DEPRESSESD SLAB, MINIMUM OF 2" TO ALLOW FOR A TILE FLOOR SLOPED TO FLOOR DRAINS
14. FOR LIGHT SWITCH AND THERMOSTAT LOCATIONS, REFER TO MEP DRAWINGS
15. SEE SHEET A6.01 AND A6.02 FOR DOOR AND WINDOW SCHEDULE. ALL FIRE RESISTIVE ASSEMBLIES FOR THE PROTECTION OF OPENING SHALL COMPLY WITH CBC 2017 SECTION 716
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23. ALL INTERIOR WALLS TO HAVE ACOUSTIC BATT INSULATION, JOHNS MANVILLE, FORMALDAHYDE FREE.
24. ALL FIRST FLOOR WOOD MEMBERS TO BE PRESSURE TREATED WHERE IN CONTACT WITH CONCRETE.

DATE PRINTED: 10/23/2020 3:32:37 PM

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	CUP SUBMITTAL	10/23/2020

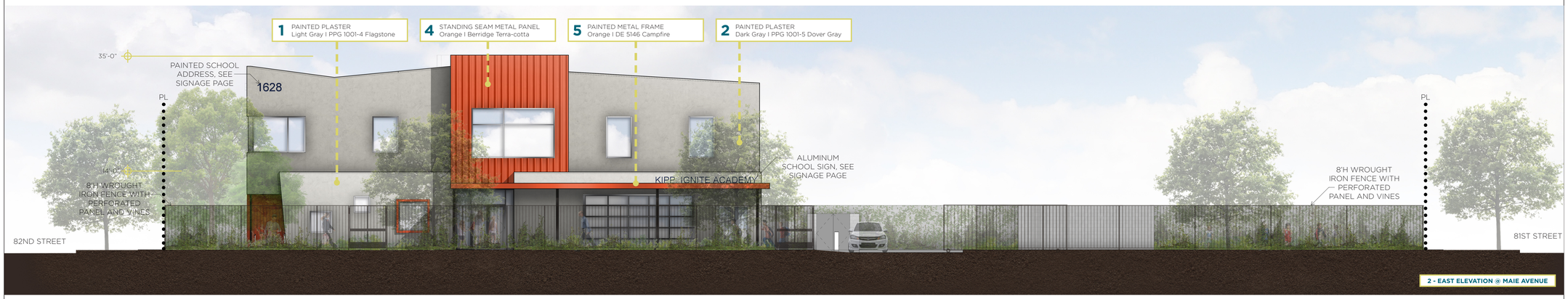
LICENSED ARCHITECT
RICHARD PAUL BERLINER
No. C-12123
9-2019
RENEWAL DATE
STATE OF CALIFORNIA

18-46 **JOB NUMBER**

CUP - 2nd Floor Plan

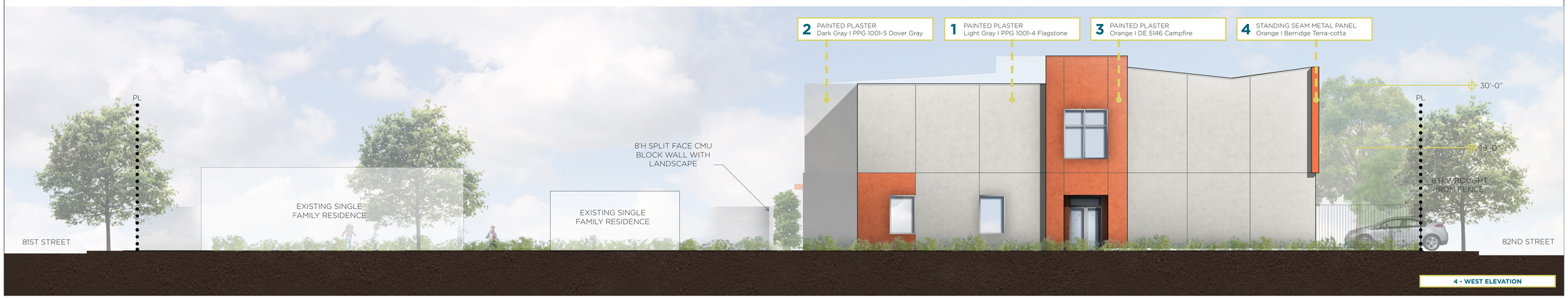
A1.22

1 - NORTH ELEVATION @ 81ST STREET



2 - EAST ELEVATION @ MAIE AVENUE

3 - SOUTH ELEVATION @ 82ND STREET



4 - WEST ELEVATION

DATE PRINTED: 7/23/2020 4:39:06 PM

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700 SOUTH FLOWER ST. SUITE 2100
LOS ANGELES, CA 90017
213-310-8520

MEP ENGINEER
DESIGN WEST ENGINEERING
275 WEST HOSPITALITY LANE, SUITE 100
SAN BERNARDINO, CA 92408
909-890-3700

CIVIL ENGINEER
BRANDOW & JOHNSTON
700 SOUTH FLOWER ST. SUITE 1800
LOS ANGELES, CA 90017
213-596-4500

LANDSCAPE ARCHITECT
OFFICE OF THE DESIGNED LANDSCAPE
1131 SUPERBA AVENUE
VENICE, CA 90291
213-364-7397

ISSUES

	SUBMITTAL	DATE
	SCHEMATIC DESIGN 100%	07/01/2020
	DESIGN DEVELOPMENT 100%	07/31/2020
	TRAFFIC SUBMITTAL	09/16/2020
	CUP SUBMITTAL	10/23/2020

18-46 **JOB NUMBER**

CUP - Elevations

A2.01

1/8" = 1'-0"

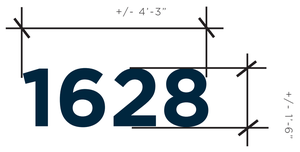
2 - EAST ELEVATION

1/8" = 1'-0"

3 - SOUTH ELEVATION

1

2



PAINTED SIGN ON PLASTER

3

ALUMINUM PIN LETTER SIGNAGE

COLOR	NAVY*	KIPP MEDIUM BLUE	BURNT ORANGE*	ORANGE*
CMYK	100/78/48/54	85/59/0/22	6/66/100/	0/42/100/0
RGB	0/38/61	37/86/148	234/114/0	255/164/0
HEX	#00263E	#255694	#E87200	#FFA400
PMS	2965 C	653 C	152 C	137 C

FULL COLOR LOGO: NAVY, BURNT ORANGE, & ORANGE

SCHOOL COLORS

DATE PRINTED: 7/23/2020 4:39:06 PM

PROJECT

KIPP: IGNITE ACADEMY

1628 EAST 81ST STREET
LOS ANGELES, CA 90001

APN:
6027-003-022, -023, -024, -025, -027, -028, -029, -030, -031

CLIENT

KIPP : LA
3601 EAST FIRST STREET
LOS ANGELES, CA 90017

ARCHITECT

BERLINER
ARCHITECTS

5976 WASHINGTON BLVD
CULVER CITY, CA 90232
TEL 310.838.2100
EMAIL richardb@berliner-architects.com

CONSULTANTS

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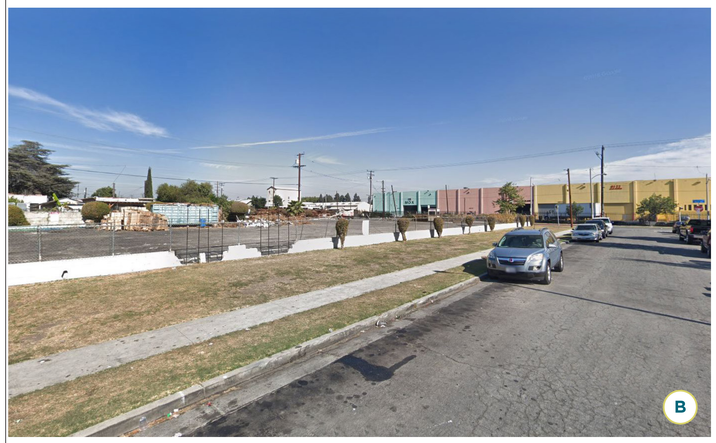
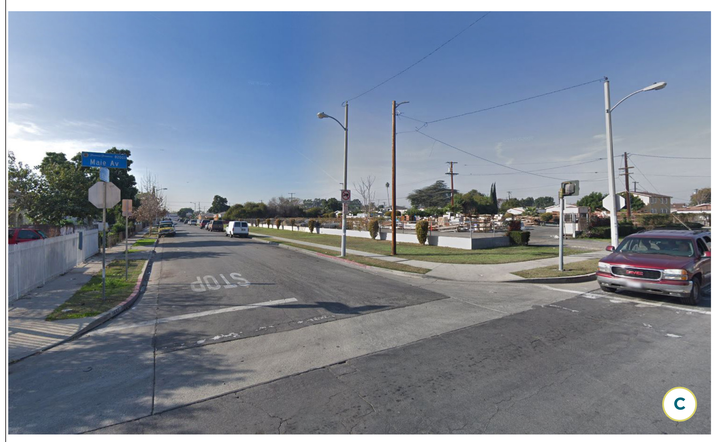
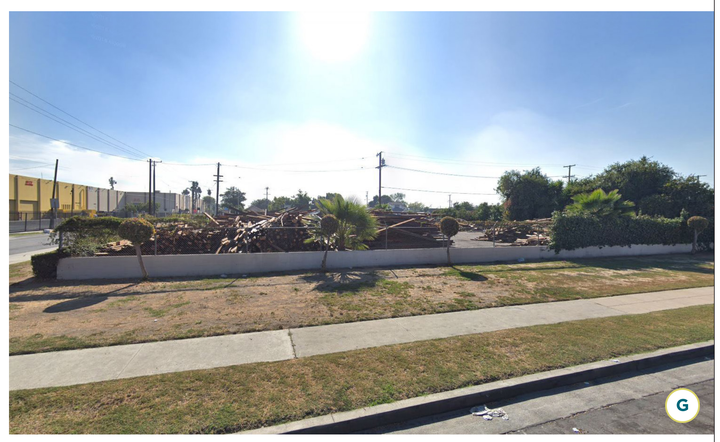
18-46 **JOB NUMBER**

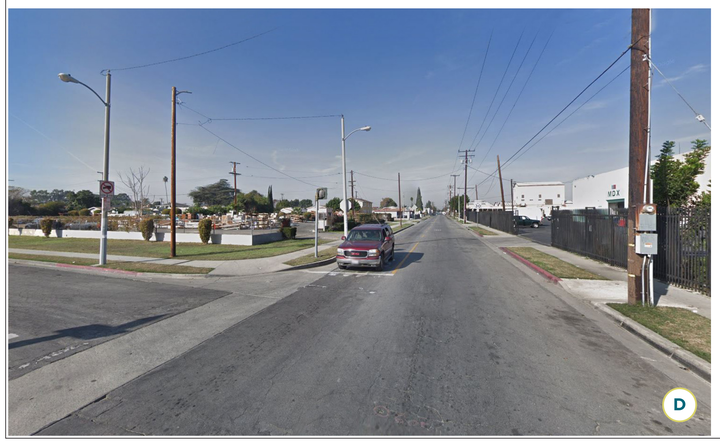
CUP - Signage

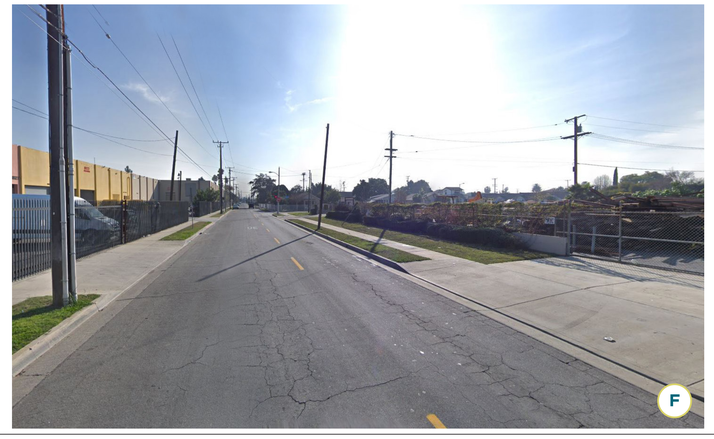
A2.02











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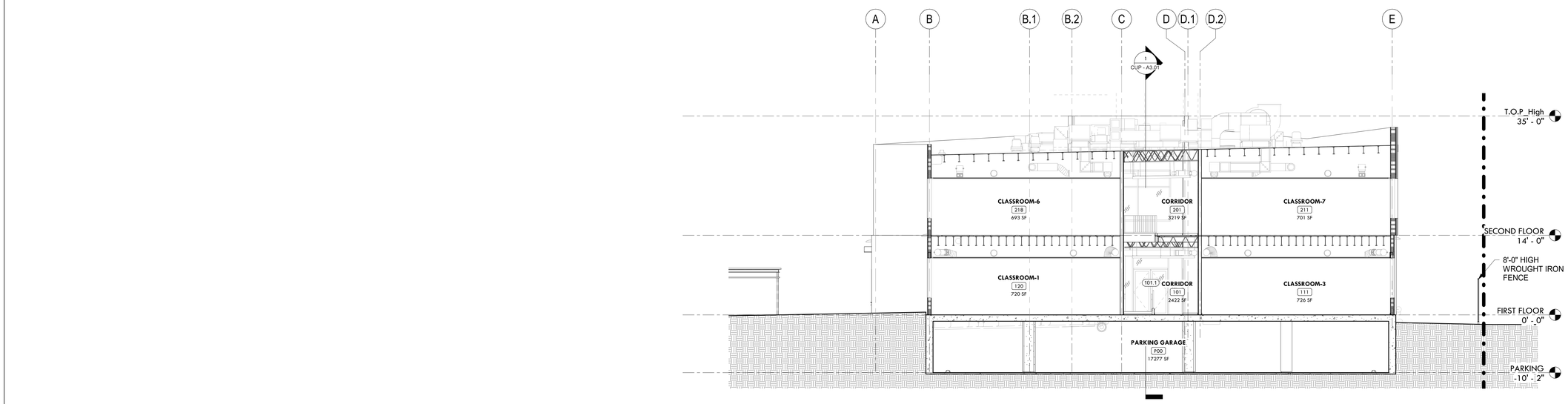
18-46 **JOB NUMBER**

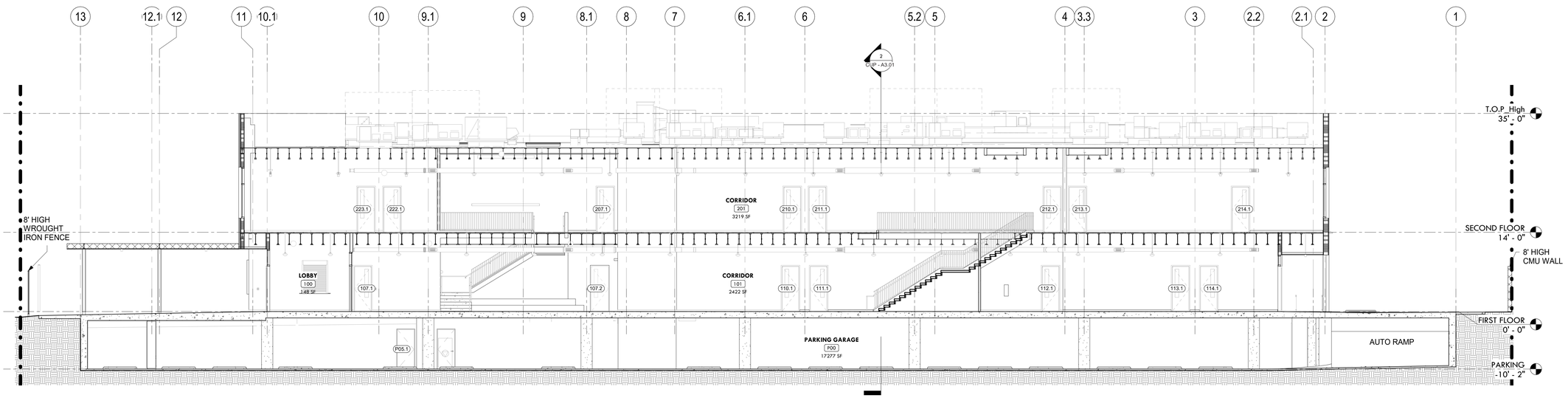
CUP - Site Photographs

A2.03



Section C-C_CUP
Scale: 1/8" = 1'-0"

2



Section A-A_CUP
Scale: 1/8" = 1'-0"

1

DATE PRINTED: 10/19/2020 3:40:12 PM

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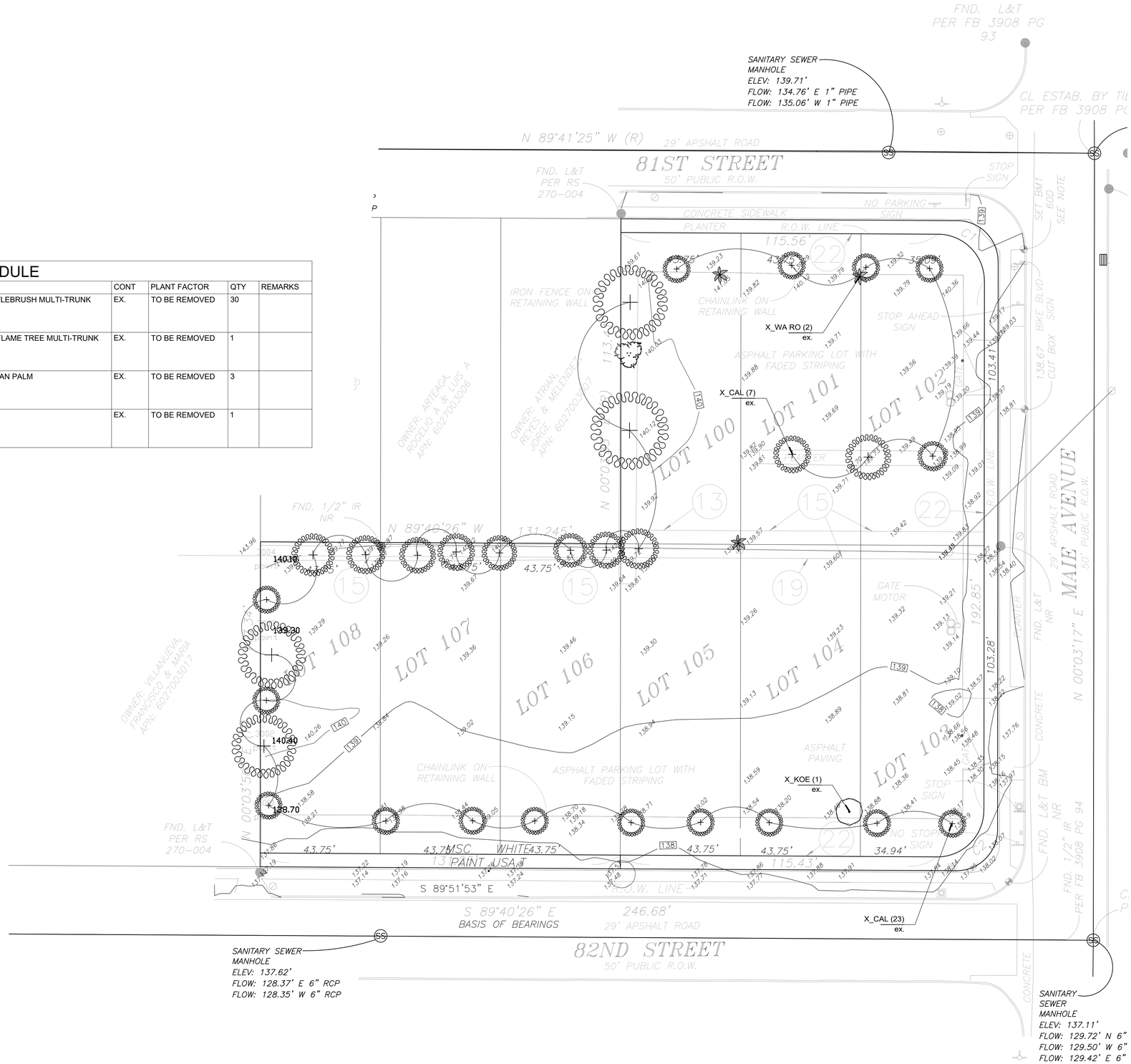
18-46 **JOB NUMBER**

CUP - Building Sections

A3.01

EXISTING TREE DISPOSITION SCHEDULE

TREES	CODE	BOTANICAL / COMMON NAME	CONT	PLANT FACTOR	QTY	REMARKS
	X_CAL	EX CALLISTEMON CITRINUS / LEMON BOTTLEBRUSH MULTI-TRUNK	EX.	TO BE REMOVED	30	
	X_KOE	EX KOELREUTERIA BIPINNATA / CHINESE FLAME TREE MULTI-TRUNK	EX.	TO BE REMOVED	1	
	X_WA RO	EX WASHINGTONIA ROBUSTA / MEXICAN FAN PALM	EX.	TO BE REMOVED	3	
	X_YU GL	EX YUCCA GLORIOSA / SPANISH DAGGER	EX.	TO BE REMOVED	1	



0 8' 16' 32'
1/16" = 1'-0"

PROJECT

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LICENSED LANDSCAPE ARCHITECT
ESTHER MARGULIES
Signature
06/30/2021
Date
10/23/2020
Date
STATE OF CALIFORNIA

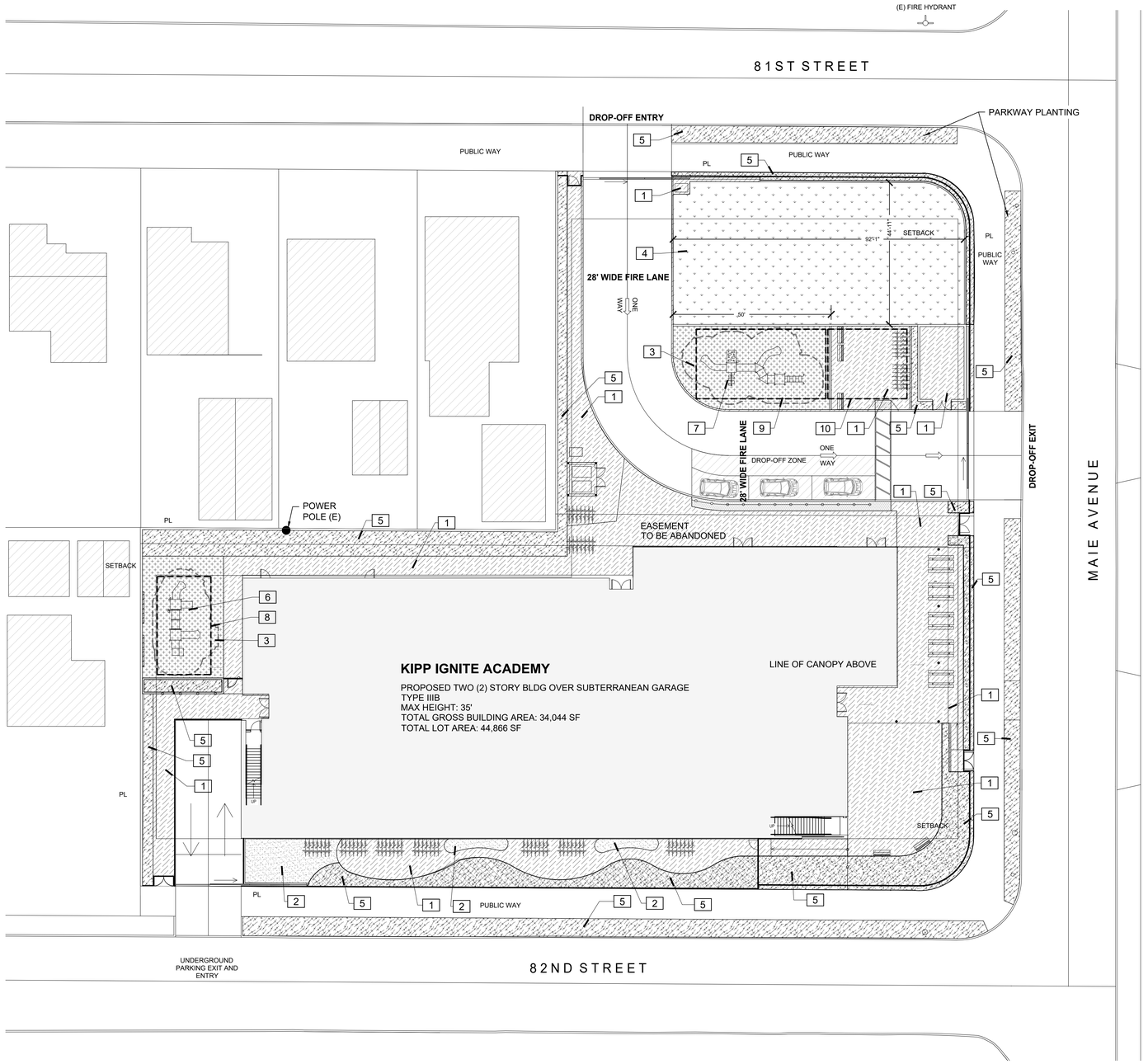
XXX

JOB NUMBER

Tree Disposition Plan

L1.1

DATE PRINTED:



REFERENCE NOTES SCHEDULE SITE

2020-07-31 15:12

SYMBOL		DESCRIPTION	QTY
	1	SITE CONCRETE. NATURAL, UNCOLORED CONCRETE WITH TOPCAST #05 FINISH.	9,324 SF
	2	DECOMPOSED GRANITE. GAIL`S GOLD COLOR.	500 SF
	3	POUR IN PLACE RESILIENT PLAY SURFACING	2,232 SF
	4	ARTIFICIAL TURF	4,083 SF
	5	LANDSCAPE AREA, SEE PLANTING PLAN.	7,041 SF
	6	PLAY EQUIPMENT. PKP 133 SANDY SPRINGS BY PLAYEQUIPMENT.COM	
	7	PLAY EQUIPMENT. PKP 185 GREENSBORO BY PLAYEQUIPMENT. COM.	
	8	SHADE STRUCTURE (17`X31`). HIP MULTIPANEL BY USA SHADE. COLOR TO BE SELECTED BY ARCHITECT.	
	9	SHADE STRUCTURE (22`X41`). HIP MULTIPANEL BY USA SHADE. COLOR TO BE SELECTED BY ARCHITECT.	
	10	SHADE STRUCTURE (22`X25`). HIP MULTIPANEL BY USA SHADE. COLOR TO BE SELECTED BY ARCHITECT.	

0 8' 16' 32'

1/16" = 1'-0"

DATE PRINTED:

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	CUP SUBMITTAL	10/23/2020

LICENSED LANDSCAPE ARCHITECT
ESTHER MARGULIES 3237
Signature
06/30/2021
Renewal Date
10/23/2020
Date
- STATE OF CALIFORNIA -

XXX **JOB NUMBER**

Landscape Materials Plan

L2.0

PLANTING NOTES

GENERAL

1. PLANTING PLAN IS DIAGRAMMATIC. PLANT SYMBOLS TAKE PRECEDENCE OVER PLANT QUANTITIES SPECIFIED. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLANTING PLAN AND NOTIFY THE LANDSCAPE DESIGNER OF DISCREPANCIES BETWEEN QUANTITIES AND THE SYMBOLS SHOWN, PRIOR TO SUBMITTING A BID. IN THE EVENT THIS NOTIFICATION IS NOT GIVEN, THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY NECESSARY REVISIONS.

2. THE CONTRACTOR SHALL INSTALL AND MAINTAIN LANDSCAPE PLANTING IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES, POLICIES AND GUIDELINES.

3. CONTRACTOR SHALL GIVE NOTICE OF PLANTING FIVE (5) BUSINESS DAYS PRIOR TO INSTALLATION. CONTRACTOR SHALL STAGE PLANT MATERIAL PRIOR TO INSTALLATION FOR LANDSCAPE DESIGNER'S REVIEW AND APPROVAL. THE LANDSCAPE DESIGNER RESERVES THE RIGHT TO ADJUST PLANTS AFTER INSTALLATION.

4. NO PLANTING SUBSTITUTIONS SHALL BE APPROVED BY LANDSCAPE DESIGNER ON SITE WITHOUT PRIOR APPROVAL.

5. ALL PROPERTY OR ITEMS DAMAGED BY THE CONTRACTOR'S WORK SHALL BE REPLACED OR REPAIRED TO ITS ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.

6. CONTRACTOR SHALL PROVIDE A SUBMITTAL OF ALL PLANTING RELATED MATERIALS TO THE LANDSCAPE DESIGNER FOR APPROVAL PRIOR TO INSTALLATION. THIS INCLUDES, BUT IS NOT LIMITED TO: LIST OF PROPOSED PLANTS (SHOWING GENUS AND SPECIES), TREE PROTECTION MATERIALS, SOIL REPORT FOR EXISTING SOIL, SOIL REPORT FOR ALL IMPORTED SOIL, SOIL AMENDMENTS, FERTILIZERS, HERBICIDES, PESTICIDES, MULCH, STAKING/GUYING MATERIALS, ROOT BARRIERS AND NURSERY RECEIPTS SHOWING PROOF OF CORRECT PLANT MATERIAL.

SOIL PREPARATION & FINE GRADING

1. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT I.D. NUMBER, TWO (2) WORKING DAYS SHALL BE ALLOWED AFTER THE I.D NUMBER IS OBTAINED AND BEFORE THE EXCAVATION WORK IS STARTED SO THAT UTILITY OWNERS CAN BE NOTIFIED.

2. CONTRACTOR SHALL SUBMIT TWO SAMPLES, 1 FROM THE NORTH SIDE AND ONE FROM THE SOUTH SIDE FOR SOIL ANALYSIS RECOMMENDATIONS FROM WALLACE LABORATORIES (310) 615-0116. SUBMIT REPORT TO LANDSCAPE DESIGNER FOR REVIEW AND COMMENT PRIOR TO BEGINNING WORK.. SOIL RECOMMENDATIONS SHALL AT A MINIMUM INCLUDE SOIL PREPARATION IN ALL PLANTING AREAS. FOR SOILS WITH LESS THAN 6% ORGANIC MATTER IN THE TOP 6 INCHES, ADD COMPOST AT A RATE OF MINIMUM 4 CU. YDS. PER 1,000 SQUARE FEET OF PERMEABLE AREA TO A DEPTH OF 6 INCHES FROM THE FINISH SURFACE.

3. ALL EXISTING PLANT MATERIAL TO BE REMOVED EXCEPT WHERE NOTED ON PLAN (REFER TO PLANT LIST FOR ADDITIONAL REMARKS ON SPECIFIC PLANTS).

4. FINAL GRADING SHALL BE APPROVED BY THE LANDSCAPE DESIGNER AND CIVIL ENGINEER IN THE FIELD AFTER SOIL PREPARATION AND PRIOR TO PLANTING. ALL PLANTING AREAS SHALL BE GRADED TO THE ELEVATIONS INDICATED ON THE CIVIL ENGINEER'S PLANS, OR 2" BELOW PAVING.

5. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 2% DRAINAGE AWAY FROM ALL BUILDINGS, STRUCTURES AND WALLS. FINISHED GRADES SHALL BE SMOOTHED TO ELIMINATE PUDDLING OR STANDING WATER. EXCESS SOIL FROM LANDSCAPE GRADING TO BE REMOVED AND DISPOSED OF OFF-SITE BY CONTRACTOR.

6. REFER TO CIVIL ENGINEER DRAWINGS FOR GRADING AND DRAINAGE INFORMATION AND OTHER RELATED NON-LANDSCAPE WORK. VERIFY ON-SITE AND REPORT DISCREPANCIES TO LANDSCAPE DESIGNER BEFORE START OF WORK.

7. PRIOR TO PLANTING, IRRIGATION SYSTEMS SHALL BE FULLY OPERATIONAL AND APPROVED BY THE LANDSCAPE DESIGNER.

8. CONTRACTOR SHALL APPLY A CONTACT HERBICIDE, WHERE WEEDS ARE PRESENT, PER MANUFACTURERS SPECIFICATIONS A MINIMUM OF TEN (10) DAYS PRIOR TO COMMENCEMENT OF PLANTING OR IRRIGATION WORK. WEEDS SHALL BE ALLOWED TO COMPLETELY DIE BACK, INCLUDING THE ROOTS BEFORE PROCEEDING WITH WORK.

9. EXISTING COMPACTED SOIL IN ALL PLANTING AREAS SHALL BE RIPPED TO A DEPTH OF EIGHTEEN (18) INCHES PRIOR TO SOIL AMENDMENT WORK.

10. SOIL FILL AND BACKFILL MIX: SHALL CONTAIN NO MORE THAN 20% CLAY (EXPANDABLE MATERIAL) AND HAVE A PH RANGE BETWEEN 6.0 - 8.0. MIX SHALL BE FREE OF DEBRIS, ANY NOXIOUS WEEDS AND INGREDIENTS OR OBJECTS THAT ARE DETRIMENTAL TO HEALTHY PLANT GROWTH. IMPORT ADDITIONAL TOPSOIL ONLY AS REQUIRED TO BRING PLANTING AREAS UP TO FINISH GRADE. SEE CIVIL ENGINEER'S DRAWINGS..

11. SOIL AMENDMENTS FOR BIDDING: APPLY SIX (6) CUBIC YARDS OF WELL COMPOSTED ORGANIC MATERIAL AND TWENTY-FIVE (25) POUNDS OF COMMERCIAL FERTILIZER 16-6-8 PER 1,000 SQUARE FEET OF PLANTING. TILL INTO THE SOIL A MINIMUM OF SIX (6) TO EIGHT (8) INCHES IN BOTH DIRECTIONS.

12. FOR SOILS LESS THAN 6% ORGANIC MATTER IN THE TOP 6 INCHES, ADD COMPOST AT A RATE OF MIN. FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREAS. COMPOST SHALL BE INCORPORATED TO A DEPTH OF 6 INCHES INTO THE SOIL.

13. IN AREAS WHERE PAVING IS BEING REMOVED FOR A NEW/PROPOSED TREE WELL, THE CONTRACTOR SHALL REMOVE THE EXCAVATED SOIL AND BACKFILL THE TREE WELL PLANTING PIT WITH CLASS 'A' TOPSOIL SUITABLE FOR PLANT GROWTH. AMEND PER NOTES.

14. PLANT TABLETS FOR PLANT PITS: SHALL BE AGRIFORM 20-10-5 AND 21 GRAMS OR ACCEPTED SUBSTITUTION. AGRIFORM IS BY SIERRA CHEMICAL COMPANY. QUANTITIES SHALL BE:
    - 1 TABLET FOR 1 GALLON CONTAINER PLANTS
    - 3 TABLETS FOR 5 GALLON CONTAINER PLANTS
    - 5 TABLETS FOR 15 GALLON CONTAINER PLANTS
    - 1 TABLET FOR EACH ½" OF TRUNK DIAMETER OF SPECIMEN TREES

PLANTING:

1. ALL PLANT MATERIALS SHALL BE APPROVED AT THE NURSERY OR BY PHOTO BY LANDSCAPE DESIGNER PRIOR TO INSTALLATION. UNLESS OTHERWISE DIRECTED, ALL TREES TO BE TAGGED BY THE LANDSCAPE DESIGNER. CONTRACTOR SHALL GIVE LANDSCAPE DESIGNER FIVE (5) DAYS ADVANCE NOTICE PRIOR TO PLANTING TO ALLOW FOR SUFFICIENT TIME FOR LANDSCAPE DESIGNER TO APPROVE SELECTED MATERIALS.

2. CONTRACTOR SHALL PROVIDE PHOTOS OF ALL PLANT MATERIAL WITH SCALE REFERENCE FOR APPROVAL PRIOR TO DELIVERY AND INSTALLATION ON SITE.

3. PLANT MATERIAL SHALL NOT BE ROOT BOUND. FIVE (5) GALLON PLANTS AND LARGER SHALL HAVE BEEN GROWN IN CONTAINERS FOR A MIN. OF SIX (6) MONTHS AND A MAX. OF TWO (2) YEARS. PLANT MATERIALS SHALL EXHIBIT HEALTHY GROWTH AND BE FREE OF DISEASES AND PESTS.

4. PROVIDE MATCHING FORMS AND SIZES FOR ALL PALMS. ONLY A ONE (1) FOOT VARIANCE FROM SPECIFIED SIZE WILL BE PERMITTED.

5. PROVIDE LINEAR (NOT CIRCULAR) ROOT BARRIERS FOR ALL TREES IN TREE WELLS AND/OR WITHIN FIVE (5) FEET OF PAVING. CONTRACTOR TO INSTALL PER MANUFACTURER'S INSTRUCTIONS.

6. PLANT PITS SHALL BE TWICE THE SIZE OF THE ROOTBALL OR DESIGNATED NURSERY CONTAINER.

7. ALL TREES SHALL BE DOUBLE STAKED AND TIED USING ZIPIT TREE TIES (OR APPROVED EQUAL), UNLESS OTHERWISE DIRECTED.

8. DO NOT PRUNE NEWLY PLANTED TREES UNLESS DIRECTED BY THE LANDSCAPE DESIGNER.

9. CONTRACTOR SHALL APPLY A CONSISTENT 3 INCH THICK LAYER OF MULCH ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS EXCEPT IN AREAS WITH CREEPING OR ROOTING GROUNDCOVERS. MULCH SHALL BE PULLED BACK 3" FROM THE BASE OF SHRUBS AND TREE CROWNS. MULCH SHALL BE 1/2" TO 1" SIZE BARK PIECES, BROWN COLOR, NOT BLACK OR RED.

GUARANTEE & MAINTENANCE PERIOD

1. CONTRACTOR SHALL MAINTAIN ALL PLANTINGS FOR A PERIOD OF NINETY (90) DAYS AFTER COMPLETION AND ACCEPTANCE BY LANDSCAPE ARCHITECT/DESIGNER. ALL AREAS SHALL BE KEPT CLEAN, WATERED AND WEED-FREE. THE MAINTENANCE PERIOD SHALL INCLUDE THE FOLLOWING SCOPE OF WORK:
   - A. WATERING OF ALL PLANT MATERIAL AS REQUIRED TO MAINTAIN & ESTABLISH PLANT HEALTH.
   - B. WEEDING AND REMOVAL OF ALL WEEDS
   - C. REPLACEMENT OF ANY DEAD, DYING, OR DAMAGED TREES, SHRUBS, OR GROUND COVERS.
   - D. FILLING AND REPLANTING OF ANY LOW AREAS WHICH MAY CAUSE STANDING WATER.
   - E. FILLING OF DEPLETED MULCH AREAS.
   - F. ADJUSTING OF SPRINKLER HEADS AND WATERING PATTERN.
   - H. WEEKLY REMOVAL OF ALL TRASH, LITTER, CLIPPINGS, AND ALL FOREIGN DEBRIS.

2. PRIOR TO END OF MAINTENANCE PERIOD, CONTRACTOR SHALL CONTACT OWNER AND ARRANGE FOR A FINAL WALK THROUGH. OWNER MUST ACCEPT ALL MAINTAINED AREAS IN WRITING PRIOR TO END OF MAINTENANCE PERIOD. OWNER SHALL BE RESPONSIBLE FOR ARRANGEMENTS FOR FUTURE MAINTENANCE AFTER MAINTENANCE PERIOD AND FINAL WALK THROUGH.

3. THE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL IN TERMS OF VIGOROUS GROWTH AND HEALTH FOR THE FOLLOWING TIME PERIODS: GROUND COVERS SHALL BE GUARANTEED FOR A PERIOD OF SIXTY (60) DAY, SHRUBS SHALL BE GUARANTEED FOR A PERIOD OF NINETY (90) DAYS, AND TREES SHALL BE GUARANTEED TO LIVE AND GROW IN AN ACCEPTABLE UPRIGHT POSITION FOR A PERIOD OF ONE (1) YEAR AFTER COMPLETION OF THE SPECIFIED MAINTENANCE PERIOD AND FINAL ACCEPTANCE.

4. THE CONTRACTOR HAS FIFTEEN (15) DAYS FROM THE TIME OF WRITTEN NOTIFICATION BY THE LANDSCAPE ARCHITECT/DESIGNER TO REMOVE AND REPLACE ALL GUARANTEED PLANT MATERIALS AT NO ADDITIONAL COST TO THE OWNER. THE LANDSCAPE ARCHITECT/DESIGNER SHALL BE THE SOLE JUDGE OF THE PLANT MATERIAL CONDITION. REPLACEMENT SHALL BE MADE WITH PLANT MATERIALS AS INDICATED OR SPECIFIED ON THE ORIGINAL PLANS, AND ALL SUCH REPLACEMENT MATERIALS SHALL BE GUARANTEED FROM THE TIME OF REPLACEMENT AS SPECIFIED FOR THE ORIGINAL MATERIAL GUARANTEE.

TREE PROTECTION NOTES

TREE PROTECTION

1. ANY FAILURE BY THE CONTRACTOR TO ADHERE TO THE REQUIREMENTS OF THIS SPECIFICATION WILL RESULT IN THE SUSPENSION OF ALL CONSTRUCTION ACTIVITIES, TO BE DONE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF, OR PAYMENT FOR ANY TREES DAMAGED THROUGH NON-COMPLIANCE WITH THESE SPECIFICATIONS. THE MONETARY VALUE OR REPLACEMENT VALUE OF IMPACTED TREES WILL BE DETERMINED BY CERTIFIED ARBORIST.

2. Defining the Tree Protection Zone (TPZ) - The radius (not the diameter) of the TPZ, measured from the outside of the tree trunk, shall be calculated according to the following:
   a) Single trunk trees - multiply the trunk diameter in inches, measured 4.5' above grade, by 1.5 feet.
   b) Multi trunk trees - multiply the sum of the diameters of all trunks in inches, measured 4.5' above grade, by 1.5 feet.
   c) Palm trees - 5' from the base of the trunk.

3. Beyond the TPZ, the contractor shall also be responsible for protecting all trees within the boundaries of the construction zone, including vehicular access areas, lay down areas, and any other areas impacted by construction activities. Any damage to trees in these areas shall also be subject to the same monetary or replacement requirements specified in #1 above. Any necessary root cutting in this area must be confirmed with an approved arborist. See also the General Conditions for any damage done by the contractor to landscaping that fall outside the boundaries of the construction zone.

4. Within the boundaries of the construction zone (including the TPZ), the contractor shall be responsible for mitigating construction-related dust accumulation on all trees by spraying the trunks, limbs, and foliage with water to a maximum height of 30 feet during the months of April through November, at monthly intervals.

5. Within the TPZ, the contractor shall adhere to the following requirements, including, but not limited to
   a) No stockpiling or storage of any material, debris, or soil.
   b) No storage of any construction equipment.
   c) No vehicular access.
   d) No cutting of roots.
   e) No disturbance of soil or grade changes.
   f) No objects of any kind to be attached to tree trunks.

6. The contractor shall install a 5' temporary chain link fence with one pedestrian access gate along the boundary of the TPZ. See detail for temporary chain link fence on detail sheet.

7. The contractor shall provide one sign per each 20 lineal ft. of fence bordering the TPZ indicating that fencing shall not be removed. See sign detail that is included as part of the temporary chain link detail.

8. No work is permitted within the TPZ without the approval of: 1) the project Landscape architect and 2) the project manager. Any work authorized within the TPZ must be done in accordance with the recommendations of certified arborist .
   A. Irrigation to all trees NOT specifically designated for removal shall be kept in operation for the duration of the project. Contractor shall be responsible for hand watering all impacted trees if necessitated by temporary shutdowns to existing irrigation systems. Trees are to be irrigated deeply and infrequently so that soil moisture is detectable at a minimum depth of 18" using a soil probe.
   B. Upon job completion, contractor shall remove all items installed to protect trees during the construction process.
   C. Any of the following Southern California native tree species fall under Ordinance No. 177404 of the Los Angeles Municipal Code:
   (a) Oaks, including Valley Oak (Quercus lobata), California Live Oak (Quercus agrifolia), or any other tree of the oak genus indigenous to California but excluding Scrub Oak (Quercus dumosa);
   (b) Southern California Black Walnut (Juglans californica var. californica);
   (c) Western Sycamore (Platanus racemosa);
   (d) California Bay (Umbellularia californica).

Contractor shall comply with the requirements of the ordinance found at:
http://cityplanning.lacity.org/Code_Studies/Other/ProtectedTreeOrd.pdf

GREEN BUILDING IRRIGATION NOTES

1. CHECK VALVES OR ANTI DRAIN VALVES ARE REQUIRED ON ALL SPRINKLER HEADS WHERE LOW POINT DRAINAGE COULD OCCUR.

2. OVERHEAD IRRIGATION SYSTEMS SHALL NOT BE PERMITTED WITHIN 24 INCHES OF ANY NON PERMEABLE SURFACE.

3. A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.

4. A CERTIFICATE OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE SIGNER OF THE LANDSCAPE PLANS, THE SIGNER OF THE IRRIGATION PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.

5. AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED AT THE TIME OF FINAL INSPECTION.

6. FOR PROJECTS THAT INCLUDE LANDSCAPE WORK, THE *LANDSCAPE CERTIFICATION*, FORM GRN 12, SHALL BE COMPLETED PRIOR TO FINAL INSPECTION APPROVAL.

CERTIFICATION

I agree to comply with the requirements of the water efficient landscape ordinance and and submit a complete Landscape Documentation Package.

TOTAL LANDSCAPE AREA: 7,041 SF

1. OBTAIN A LETTER OF FINAL GRADE CERTIFICATION FROM CITY PRIOR TO BEGINNING PLANTING OPERATIONS CERTIFYING THAT ROUGH GRADES ARE WITHIN 1/10TH OF AN INCH FROM SPECIFIED FINISH GRADES. ENSURE THAT FINISH GRADE ELEVATIONS OF PLANTING AREAS ARE SET AT PROPER ELEVATIONS RELATIVE TO PAVING FINISH SURFACE ELEVATIONS. UTILITY COVERS AND CURBS.

2. EXISTING SOIL: EXISTING SITE SOIL MAY BE USED FOR PLANTING AREAS. HOWEVER IT MUST BE AMENDED PER HORTICULTURAL SOILS REPORT RECOMMENDATIONS. SOIL SAMPLES SHALL BE TAKEN AT (3) LOCATIONS WITHIN THE SITE APPROVED BY OWNER'S AUTHORIZED REPRESENTATIVE. TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE CONDUCTED BY A QUALIFIED SOIL TESTING LABORATORY FOR SOIL FERTILITY, BACKFILL, AND SOIL PREPARATION RECOMMENDATIONS.

3. IMPORT SOIL FOR PLANTING AREAS SHALL BE HIGH QUALITY PLANTING MEDIUM AND MEET THE CRITERIA IN THE SPECIFICIATIONS: IMPORT SOIL SHALL BE PLACED AT THE SPECIFIED FINISH GRADES. SOIL SAMPLES OF THE IMPORTED MATERIAL SHALL BE TAKEN AT (2) LOCATIONS WITHIN EACH IMPORT SOURCE TO INSURE THAT MATERIAL BROUGHT TO THE SITE IS CONSISTENT AND MEETS THE SPECIFICATION REQUIREMENTS. SUBMIT HORTICULTURAL SOIL TEST RESULTS OF IMPORT SOIL AND PHOTOGRAPHS SHOWING SOURCE LOCATIONS TO OWNER'S AUTHORIZED REPRESENTATIVE FOR APPROVAL PRIOR TO DELIVERING SOIL TO SITE.

4. IMPORT SOIL SHALL BE SANDY LOAM, CONTAINING NO TOXIC CHEMICALS OR ELEMENTS THAT MIGHT INHIBIT OR RETARD NORMAL PLANT GROWTH OR HARM ANIMALS OR HUMANS. AMMEND IMPORT SOIL AT THE SOURCE OR ON SITE PER THE SOIL ANALYSIS RECOMMENDATIONS. AMENDED SOIL SHALL NOT BE PLACED BELOW THE BOTTOM OF THE ROOTBALL.

5. PLANT MATERIAL, I.E. TREES. SHRUBS AND GROUND COVERS, MUST BE APPROVED BY OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION. PLANT MATERIAL INSTALLED WITHOUT APPROVAL MAY BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE COST OF THE CONTRACTOR.

6. FINAL LOCATIONS OF PLANT MATERIAL ARE SUBJECT TO APPROVAL OF OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION. PERFORM THE FOLLOWING PROCEDURES BEFORE BEGINNING PLANT PIT EXCAVATION:
   A. SHRUBS & TREES - PLACE ACTUAL PLANT CONTAINERS ON-SITE IN PRELIMINARY LOCATIONS.

8. NOTIFY OWNER'S AUTHORIZED REPRESENTATIVE AT LEAST SEVENTY-TWO (72) HOURS IN ADVANCE TO ARRANGE FOR LANDSCAPE ARCHITECT'S AVAILABILITY TO APPROVE PLANT LOCATIONS OR OTHER REQUIRED SITE VISITS. INSUFFICIENT NOTIFICATION TIME GIVEN TO OWNERS'S AUTHORIZED REPRESENTATIVE MAY REQUIRE SITE VISIT TO BE CANCELED OR CONTRACTOR MAY BE REQUIRED TO COVER ADDITIONAL COSTS TO THE PROJECT FOR DELAYS.

9. CONTRACTOR MUST FURNISH PLANT MATERIAL FREE OF PESTS, IN HEALTHY CONDITION, WITHOUT DISEASE. THE CONTRACTOR SHALL PROVIDE COPIES OF NURSERY RECEIPTS SHOWING CORRECT PLANT NAMES AND BE CERTIFIED PEST AND DISEASE FREE.

10. CONTRACTOR IS RESPONSIBLE FOR FINAL PLANT QUANTITIES BASED ON AREAS SHOWN TO BE PLANTED ON THE DRAWINGS. PLANTS SHALL BE INSTALLED AT THE SIZE AND SPACING SPECIFIED TO PROVIDE COMPLETE COVERAGE OF THE AREAS SHOWN ON THE DRAWINGS. PLANT QUANTITIES FOR MASSED AREAS ARE ESTIMATES ONLY.

11. ENSURE THAT DECOMPOSED GRANITE AND TURF AREAS ARE SEPARATED FROM GROUND COVER AND SHRUB AREAS WITH SPECIFIED EDGING - REFER TO DRAWINGS FOR CURBS AND OTHER EDGING MATERIALS.

12. TRIANGULARLY SPACE GROUND COVERS AND SHRUBS, UNLESS INDICATED OTHERWISE ON DRAWINGS. MAINTAIN HALF ON-CENTER SPACING WHEN ADJACENT TO PAVED AREAS, WALLS, OR OTHER FIXED EDGES.

13. DO NOT PLANT TREES ANY CLOSER THAN 3 FEET TO ANY FIXED EDGE. I.E. SIDEWALKS AND WALLS, UNLESS INDICATED OTHERWISE ON DRAWINGS. INSTALL LINEAR ROOT BARRIERS ("DEEP ROOT" OR APPROVED EQUAL) FOR ALL TREES WITHIN 5'-0" OF CONCRETE CURBS OR PAVING ONLY ON THE SIDE(S) ADJACENT TO PAVED AREAS OR CURBS. ROOT BARRIER TO BE ON INTERIOR EDGE OF PAVING. REFER TO MANUFACTURER'S INSTALLATION SPECIFICATIONS.

14. ENSURE THAT TREES AND SHRUBS ARE NOT PLANTED TOO DEEP RELATIVE TO FINISH GRADE. TREES PLANTED TOO DEEP WILL BE REPLANTED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER - REFER TO SPECIFICATIONS AND DETAILS FOR PROPER GRADE ELEVATIONS.

15. INSTALL PLANT MATERIAL WITH ITS BEST SIDE FACING THE PREDOMINANT VIEW OF THE PUBLIC WHERE POSSIBLE.

16. DO NOT PLANT TREES WITHIN 10 FEET OF GAS, WATER OR SEWER LINES. CONTACT OWNER'S REPRESENTATIVE IF MEETING THIS REQUIREMENT DIFFERS FROM LOCATIONS INDICATED ON DRAWINGS. REFER TO DRAWING DETAILS FOR REQUIRED PLANTING METHODS.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH PLANTING AND IRRIGATION OPERATIONS. REFER TO THE SPECIFICATIONS FOR PLANTING REQUIREMENTS, MATERIALS AND EXECUTION.

18. ALL TREES SHALL BE TAGGED BY THE LANDSCAPE ARCHITECT AT A NURSERY OR NURSERIES SELECTED BY THE CONTRACTOR OR AT THE DISCRETION OF THE LANDSCAPE ARCHITECT. ALL TREES SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT IN ADVANCE WITH FORMAL SUBMITTALS PER THE SPECIFICATIONS. NO TAGGING WILL TAKE PLACE WITHOUT APPROVED SUBMITTALS.

19. IF TAGGING IS REQUIRED AT MORE THAN (3) NURSERIES, CONTRACTOR IS RESPONSIBLE FOR ADDITIONAL COST FOR LANDSCAPE ARCHITECT'S TIME. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AT LEAST SEVENTY-TWO (72) HOURS IN ADVANCE OF THE TREE TAGGING DATE. THE OWNER'S AUTHORIZED REPRESENTATIVE MAY ACCOMPANY THE PROJECT LANDSCAPE ARCHITECT TO NURSERIES FOR THE TREE TAGGING.

20. PRE-SELECTED OR ''LANDSCAPE ARCHITECT - TAGGED" PLANT MATERIAL MUST BE INSPECTED BY THE CONTRACTOR AND CERTIFIED PEST AND DISEASE FREE. IT IS THE CONTRACTOR'S OBLIGATION TO WARRANTY ALL PLANT MATERIAL PER SPECIFICATIONS.

21. PRIOR TO PLANTING, IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL AND ALL PLANTING AREAS SHALL BE THOROUGHLY WATERED AS PER SPECIFICATIONS.

22. PLANT MATERIAL SHALL BE GROWN AND/OR ACCLIMATED UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE OF THE PROJECT SITE.

23. PLANT MATERIAL MAY BE REJECTED AT ANY TIME BY THE OWNER'S AUTHORIZED REPRESENTATIVE DUE TO HEALTH OR FORM DEFECTS, OR DAMAGE BEFORE OR AFTER PLANTING. WARRANTY ALL PLANT MATERIAL TO BE IN HEALTHY AND FLOURISHING CONDITION OF ACTIVE GROWTH FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF PROJECT ACCEPTANCE.

24. FERTILIZERS SHALL BE APPLIED PER THE PROJECT SPECIFICATIONS AND HORTICULTURAL SOILS REPORT.

25. PLANT CENTERS SHALL NOT BE PLACED WITHIN EIGHTEEN (18") INCHES OF SPRINKLER HEADS.

26. FORM BERMED WATERING BASIN AROUND ALL TREES INSTALLED IN GROUND COVER AND SHRUB AREAS. FILL BASIN WITH MULCH AS SHOWN ON DETAILS AND AS SPECIFIED. IN LAWN AREAS, A 24" RADIUS AROUND TREES SHALL BE MULCHED AND KEPT FREE OF SOD.

27. THE LOCATION OF ALL IRRIGATION VALVE BOXES, MAINLINE PIPE, AND OTHER VISIBLE EQUIPMENT SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. ALL VISIBLE EQUIPMENT SHALL BE INSTALLED IN AN ORGANIZED MANNER THAT ALLOWS PLANTING IF SHOWN NEAR THE EQUIPMENT AND PERPENDICULAR TO HARDSCAPE ELEMENTS.

28. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL PLANT MATERIALS IN A HEALTHY WEED AND DEBRIS-FREE CONDITION THROUGHOUT THE ESTABLISHMENT PERIOD. CONTRACTOR SHALL REPLACE ALL PLANTS THAT FAIL TO THRIVE WITHIN 5 BUSINESS DAYS DURING THE WARRANTY AND ESTABLISHMENT PERIOD AT NO ADDITIONAL COST TO THE OWNER.

29. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING THE WATERING SCHEDULE TO PROMOTE HEALTHY PLANT GROWTH.

30. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE DEPTH OF MULCH ON A REGUARL BASIS DURING THE CONSTRUCTION AND MAINTENANCE PERIOD. PLANTINGS SHALL BE MULCHED WITHIN ONE WEEK OF INSTALLATION.

31. RECIRCULATING WATER SYSTEMS SHALL BE USED FOR WATER FEATURES.

32. A MINIMUM 3-INCH LAYER OF MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS EXCEPT TURF AREAS, CREEPING OR ROOTING GROUNDCOVERS, OR DIRECT SEEDING APPLICATIONS WHERE MULCH IS CONTRAINDICATED. MULCH MATERIAL SHALL BE SHREDDED BARK MULCH, PER SPECS.

33. FOR SOILS WITH LESS THAN 6% ORGANIC MATTER IN THE TOP 6 INCHES OF SOIL, COMPOST AT A RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREAS SHALL BE INCORPORATED TO A DEPTH OF SIX INCHES INTO THE SOIL.

DATE PRINTED:

PROJECT

KIPP: IGNITE ACADEMY

1628 EAST 81ST STREET
LOS ANGELES, CA 90001

APN:
6027-003-022, -023, -024, -025, -027, -028, -029, -030, -031

CLIENT

KIPP : LA
3601 EAST FIRST STREET
LOS ANGELES, CA 90017

ARCHITECT

BERLINER
ARCHITECTS

5976 WASHINGTON BLVD
CULVER CITY, CA 90232
TEL 310.838.2100
EMAIL richardb@berliner-architects.com

CONSULTANTS

STRUCTURAL ENGINEER
KPFF
700 SOUTH FLOWER ST. SUITE 2100
LOS ANGELES, CA 90017
213-310-8520

MEP ENGINEER
DESIGN WEST ENGINEERING
275 WEST HOSPITALITY LANE, SUITE 100
SAN BERNARDINO, CA 92408
909-890-3700

CIVIL ENGINEER
BRANDOW & JOHNSTON
700 SOUTH FLOWER ST. SUITE 1800
LOS ANGELES, CA 90017
213-596-4500

LANDSCAPE ARCHITECT
OFFICE OF THE DESIGNED LANDSCAPE
1131 SUPERBA AVENUE
VENICE, CA 90291
213-364-7397

ISSUES

	SUBMITTAL	DATE
	SCHEMATIC DESIGN 100%	07/21/2020
	DESIGN DEVELOPMENT 100%	07/31/2020
	CUP SUBMITTAL	10/23/2020

LICENSED LANDSCAPE ARCHITECT
ESTHER MARGULIES - 2737
Signature
06/30/2021
Renewal Date
10/23/2020
Date
STATE OF CALIFORNIA

XXX **JOB NUMBER**

Planting Notes

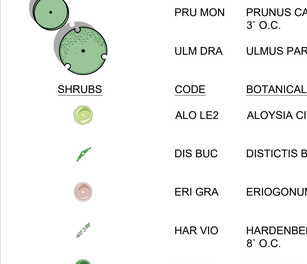
L3.0

PLANT SCHEDULE SITE

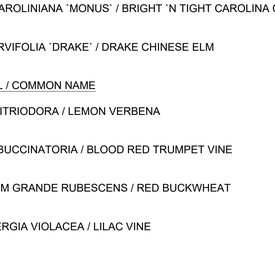
TREES	CODE	BOTANICAL / COMMON NAME	CONT	PLANT FACTOR	QTY
	CIT LIS	CITRUS X LIMON `LISBON` / LISBON LEMON	24"BOX	0.5, MOD	1
	ERI JAP	ERIOBOTRYA JAPONICA / LOQUAT	24"BOX	0.5, MOD	1
	PLA RAC	PLATANUS RACEMOSA / CALIFORNIA SYCAMORE	36"BOX	0.5, MOD	1
	PRU MON	PRUNUS CAROLINIANA `MONUS` / BRIGHT `N TIGHT CAROLINA CHERRY LAUREL 3` O.C.	15 GAL	0.3, LOW	34
	ULM DRA	ULMUS PARVIFOLIA `DRAKE` / DRAKE CHINESE ELM	24"BOX	0.3, LOW	10

SHRUBS	CODE	BOTANICAL / COMMON NAME	SIZE	PLANT FACTOR	QTY
	ALO LE2	ALOYSIA CITRIODORA / LEMON VERBENA	5 GAL	0.3, LOW	4
	DIS BUC	DISTICTIS BUCCINATORIA / BLOOD RED TRUMPET VINE	5 GAL	0.5, MOD	27
	ERI GRA	ERIOGONUM GRANDE RUBESCENS / RED BUCKWHEAT	1 GAL	0.3, LOW	10
	HAR VIO	HARDENBERGIA VIOLACEA / LILAC VINE 8` O.C.	5 GAL	0.3, LOW	20
	LOM IRA	LOMANDRA LONGIFOLIA `BREEZE` TM / BREEZE MAT RUSH 2` O.C.	5 GAL	0.3, LOW	148
	LON HAL	LONICERA JAPONICA `HALLIANA` / HALLS HONEYSUCKLE FLOWERING VINE 2` O.C.	1 GAL	0.3, LOW	139
	LON SEM	LONICERA SEMPERVIRENS `MAGNIFICA` / TRUMPET HONEYSUCKLE	5 GAL	0.5, MOD	21
	MAC UNG	MACFADYENA UNGUIS-CATI / YELLOW TRUMPET VINE 5` O.C.	5 GAL	0.3, LOW	42
	MON VIL	MONARDELLA VILLOSA / COYOTE MINT	1 GAL	0.3, LOW	3
	PAS LAV	PASSIFLORA X `LAVENDER LADY` / PASSION VINE	5 GAL	0.5, MOD	8
	PEN SPE	PENSTEMON SPECTABILIS / SHOWY PENSTEMON	1 GAL	0.3, LOW	4
	ROS BA5	ROSMARINUS OFFICINALIS `BARBEQUE` / ROSEMARY	5 GAL	0.3, LOW	11
	ROS HUN	ROSMARINUS OFFICINALIS `HUNTINGTON CARPET` / HUNTINGTON CARPET ROSEMARY	5 GAL	0.3, LOW	41
	SAL WIN	SALVIA CLEVELANDII `WINIFRED GILLMAN` / CLEVELAND SAGE	5 GAL	0.3, LOW	3
	SAL HOT	SALVIA MICROPHYLLA `HOT LIPS` / HOT LIPS SAGE	1 GAL	0.3, LOW	8
	TRA JAS	TRACHELOSPERMUM JASMINOIDES / CHINESE STAR JASMINE 8` O.C.	5 GAL	0.5, MOD	9

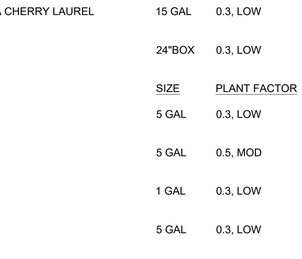
GROUND COVERS	CODE	BOTANICAL / COMMON NAME	CONT	PLANT FACTOR	QTY
	TUR BUF	TURF SOD BUFFALO / BUFFALO SOD	SOD	0.5, MOD	2,846 SF



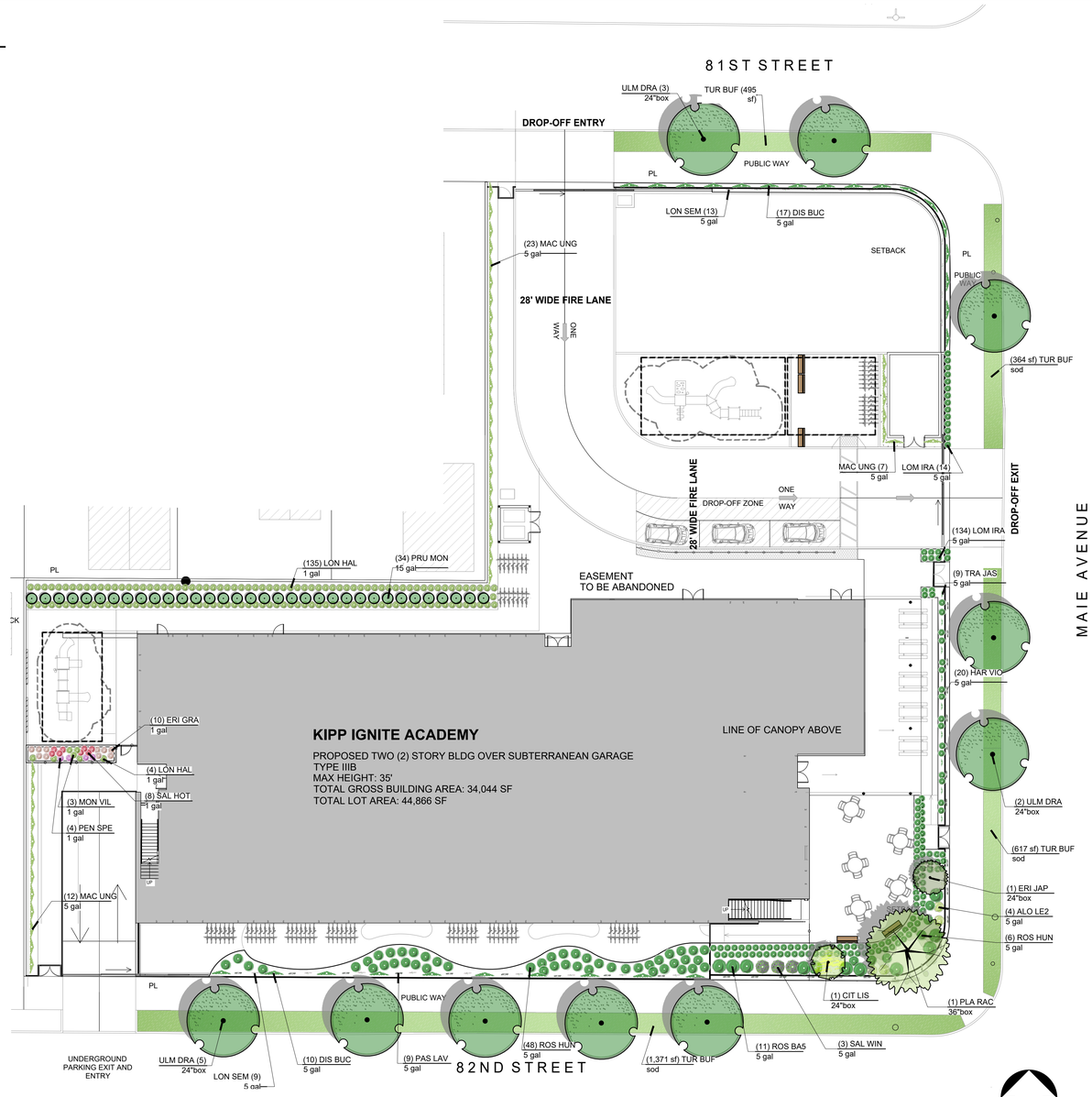
Lemon tree



Loquat tree



Platanus racemosa (Shade tree)

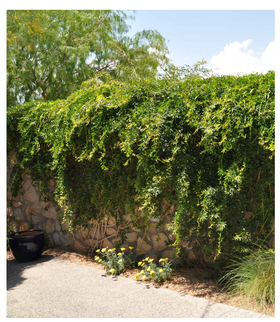


No existing oaks on project site.
Landscaping and irrigation are designed to meet California's MWELO requirements.

Ulmus parvifolia (Street tree)

Prunus caroliniana

Distictis buccinatoria



Macfadyena unguis-cati

Lomandra longifolia

Scented herb border

Pollinator garden (kindergarten)

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3601 EAST FIRST STREET
LOS ANGELES, CA 90017

ARCHITECT

BERLINER ARCHITECTS

5976 WASHINGTON BLVD
CULVER CITY, CA 90232
TEL 310.838.2100
EMAIL richardb@berliner-architects.com

CONSULTANTS

STRUCTURAL ENGINEER
KPFF
700 SOUTH FLOWER ST. SUITE 2100
LOS ANGELES, CA 90017
213-310-8520

MEP ENGINEER
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ISSUES

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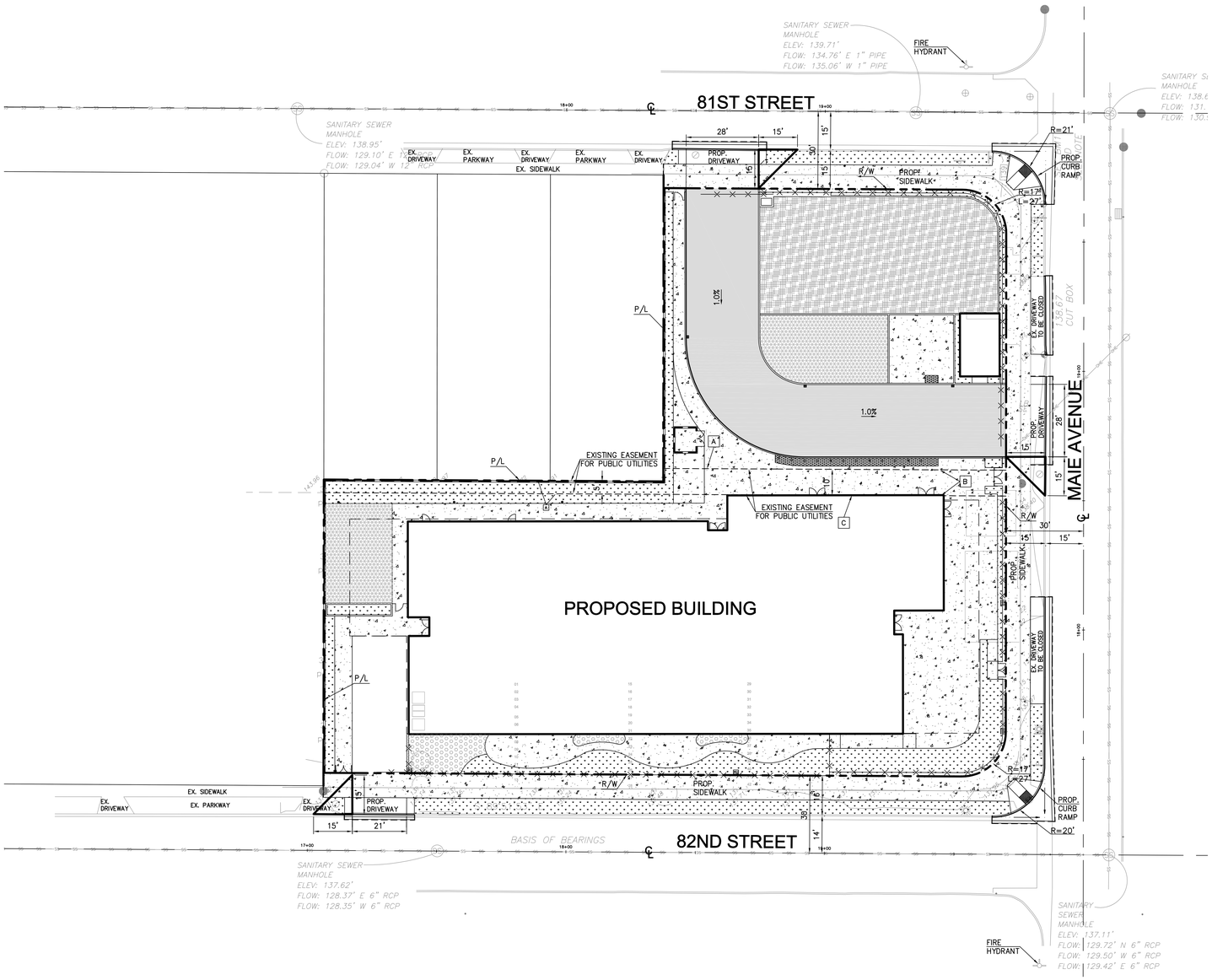
	SCHEMATIC DESIGN 100%	07/21/2020
	DESIGN DEVELOPMENT 100%	07/31/2020
	CUP SUBMITTAL	10/23/2020

LICENSED LANDSCAPE ARCHITECT
ESTHER MARGULIES #2737
Signature
06/30/2021
License Expiration Date
10/23/2020
Date
STATE OF CALIFORNIA

XXX **JOB NUMBER**

Planting Plan

L3.1



SITE PLAN

0' 10' 20' 40'

GRAPHIC SCALE : 1"=20'

LEGEND

- BUILDING OUTLINE
- BUILDING OVERHEAD
- NEW CONCRETE PAVEMENT
- NEW ASPHALT CONCRETE PAVEMENT
- NEW PLANTER AREA PER LANDSCAPE
- NEW PLAY AREA PER LANDSCAPE
- NEW SYNTHETIC TURF PER LANDSCAPE
- 1048.00 FS — PROPOSED SPOT ELEVATION
- (1048.00) FS — EXISTING SPOT ELEVATION
- 146 — PROP. CONTOUR (1' INTERVAL)
- 146 — EXIST. CONTOUR (1' INTERVAL)
- PROPERTY LINE
- R — RIDGE
- GRADE BREAK LINE
- FLOW LINE
- EXIST. FENCE
- PROPOSED FENCE
- PATH OF TRAVEL

A EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT: PURPOSE: PUBLIC UTILITIES: RECORDING DATE: IN BOOK 6058 PAGE 1, OF OFFICIAL RECORDS, AFFECTS: REAR 5 FEET OF LOT 100 AFFECTS, PLOTTED HEREON.

B EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT: PURPOSE: POLE LINES AND CONDUITS, RECORDING DATE: IN BOOK 11930 PAGE 220, OF OFFICIAL RECORDS, AFFECTS: REAR 5 FEET AFFECTS, PLOTTED HEREON.

C EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT: PURPOSE: POLE LINES, RECORDING DATE: IN BOOK 15324 PAGE 124, OF OFFICIAL RECORDS, AFFECTS: REAR FEET OF LOT 104 AFFECTS, PLOTTED HERON.

DATE PRINTED: 12/26/2018 3:08:33 PM

PROJECT

KIPP: IGNITE ACADEMY

1628 EAST 81ST STREET
LOS ANGELES, CA 90001

APN:
6027-003-022, -023, -024, -025, -027, -028, -029, -030, -031

CLIENT

KIPP : LA
3601 EAST FIRST STREET
LOS ANGELES, CA 90017

ARCHITECT

BERLINER ARCHITECTS

5976 WASHINGTON BLVD
CULVER CITY, CA 90232
TEL 310.838.2100
EMAIL richardb@berliner-architects.com

CONSULTANTS

STRUCTURAL ENGINEER
KPFF
700 SOUTH FLOWER ST. SUITE 2100
LOS ANGELES, CA 90017
213-310-8520

MEP ENGINEER
DESIGN WEST ENGINEERING
275 WEST HOSPITALITY LANE, SUITE 100
SAN BERNARDINO, CA 92408
909-890-3700

CIVIL ENGINEER
BRANDOW & JOHNSTON
700 SOUTH FLOWER ST. SUITE 1800
LOS ANGELES, CA 90017
213-596-4500

LANDSCAPE ARCHITECT
OFFICE OF THE DESIGNED LANDSCAPE
1131 SUPERBA AVENUE
VENICE, CA 90291
213-364-7397

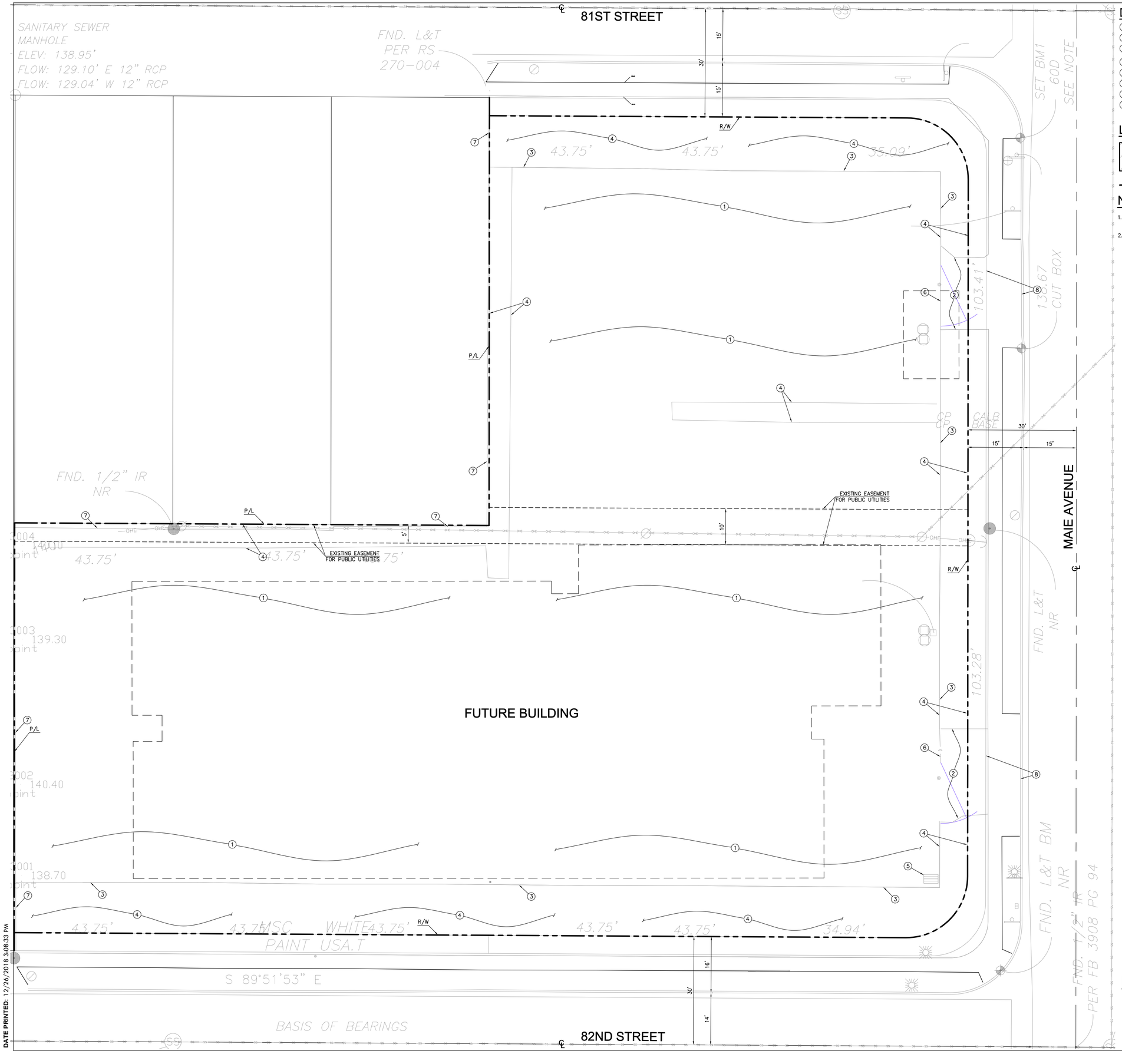
ISSUES

	SUBMITTAL	DATE
	SCHEMATIC DESIGN	07/01/2020
	DESIGN DEVELOPMENT 100%	07/31/2020
	CUP SUBMITTAL	10/23/2020

C18-0057 **JOB NUMBER**

SITE PLAN

C1



DEMOLITION NOTES:

1. REMOVE EXISTING ASPHALT PAVEMENT.
2. REMOVE EXISTING CONCRETE PAVEMENT.
3. REMOVE EXISTING CMU WALL AND FENCE AND WALL FOOTING IN ITS ENTIRETY.
4. REMOVE EXISTING LANDSCAPE AREA.
5. REMOVE EXISTING CATCH BASIN.
6. REMOVE EXISTING SLIDING GATE AND MOTOR.
7. REMOVE EXISTING CMU WALL.
8. EXISTING DRIVEWAY TO BE CLOSED.

LEGEND

EXISTING BUILDING

PROPERTY LINE

NOTE TO CONTRACTOR:

1. REFER TO STREET IMPROVEMENT PLAN FOR PROPOSED WORK WITHIN THE PUBLIC RIGHT OF WAY.
2. COORDINATE REMOVAL OF EXISTING TREES WITH THE OWNER/LANDSCAPE.

NORTH

DEMOLITION PLAN

0' 5' 10' 20'

GRAPHIC SCALE : 1"=10'

DATE PRINTED: 12/26/2018 3:08:33 PM

PROJECT

KIPP: IGNITE ACADEMY

1628 EAST 81ST STREET
LOS ANGELES, CA 90001

APN:
6027-003-022, -023, -024, -025, -027, -028, -029, -030, -031

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C18-0057

JOB NUMBER

DEMOLITION PLAN

C301

SANITARY SEWER MANHOLE
ELEV: 138.95'
FLOW: 129.10' E 12" RCP
FLOW: 129.04' W 12" RCP

81ST STREET

PROPOSED BUILDING
FF=139.38

EXISTING EASEMENT FOR PUBLIC UTILITIES

MAIE AVENUE

82ND STREET

BASIS OF BEARINGS

CONSTRUCTION NOTES:

1. CONSTRUCT CONCRETE PAVEMENT PER DETAIL 1 ON SHEET C201
2. CONSTRUCT AC PAVEMENT PER DETAIL 2 & 3 ON SHEET C201
3. PLANTER/LANDSCAPE PER LANDSCAPE PLANS
4. CONSTRUCT CONCRETE CURB PER DETAIL 4 ON SHEET C201
5. SYNTHETIC TURF PER LANDSCAPE PLANS
6. CONSTRUCT CONCRETE GUTTER PER DETAIL 6 ON SHEET C201
7. INSTALL TRUNCATED DOMES PER DETAIL 10 ON SHEET C201.
8. FENCE PER ARCHITECTURAL PLANS
9. SLIDING GATE PER ARCHITECTURAL PLANS
10. TRANSFORMER PAD PER ELECTRICAL PLANS
11. CONSTRUCT CMU WALL PER DETAIL 12 ON SHEET C201
12. CONCRETE CURB TRANSITION PER DETAIL 7 ON SHEET C201
13. CONSTRUCT FLUSH CURB PER DETAIL 8 ON SHEET C201
14. BOLLARD PER ARCHITECTURAL PLANS
15. CONSTRUCT CURB RAMP PER SPPWC STD. PLAN 111-5 CASE B TYPE I
16. CONCRETE BENCH PER LANDSCAPE PLANS.
17. CONCRETE EDGE PER LANDSCAPE PLANS
18. STRUCTURAL SLAB PER STRUCTURAL PLANS
19. PLAY AREA PER LANDSCAPE PLANS
20. CONSTRUCT CONCRETE DRIVEWAY PER SPPWC STANDARD PLAN 110-2.
21. CONSTRUCT CONCRETE CURB AND GUTTER PER DETAIL 13 ON SHEET C201. DRIVEWAY TO BE CLOSED.
22. CONSTRUCT CURB RAMP PER SPPWC STANDARD PLAN 111-5.
23. CONSTRUCT RAMP TO SUBTERRANEAN PARKING PER ARCHITECTURAL PLANS.
24. DECOMPOSED GRANITE PER LANDSCAPE PLANS.

LEGEND

- BUILDING OUTLINE
- BUILDING OVERHEAD
- NEW CONCRETE PAVEMENT
- NEW ASPHALT CONCRETE PAVEMENT
- NEW PLANTER AREA PER LANDSCAPE
- NEW PLAY AREA PER LANDSCAPE
- NEW SYNTHETIC TURF PER LANDSCAPE
- 1048.00 FS — PROPOSED SPOT ELEVATION
- (1048.00) FS — EXISTING SPOT ELEVATION
- 146 — PROP. CONTOUR (1' INTERVAL)
- 146 — EXIST. CONTOUR (1' INTERVAL)
- PROPERTY LINE
- R — RIDGE
- GRADE BREAK LINE
- FLOW LINE
- EXIST. FENCE
- PROPOSED FENCE
- PATH OF TRAVEL

NOTE TO CONTRACTOR:

REFER TO OFF-SITE IMPROVEMENT PLAN FOR THE PROPOSED WORK WITHIN THE PUBLIC RIGHT OF WAY.

A EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT: PURPOSE: PUBLIC UTILITIES: RECORDING DATE: IN BOOK 6058 PAGE 1, OF OFFICIAL RECORDS, AFFECTS: REAR 5 FEET OF LOT 100 AFFECTS, PLOTTED HEREON.

B EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT: PURPOSE: POLE LINES AND CONDUITS, RECORDING DATE: IN BOOK 11930 PAGE 220, OF OFFICIAL RECORDS, AFFECTS: REAR 5 FEET AFFECTS, PLOTTED HEREON.

C EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT: PURPOSE: POLE LINES, RECORDING DATE: IN BOOK 15324 PAGE 124, OF OFFICIAL RECORDS, AFFECTS: REAR FEET OF LOT 104 AFFECTS, PLOTTED HERON.

NORTH

GRADING PLAN

0' 5' 10' 20'
GRAPHIC SCALE : 1"=10'

DATE PRINTED: 12/26/2018 3:08:33 PM

PROJECT

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VENICE, CA 90291
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ISSUES

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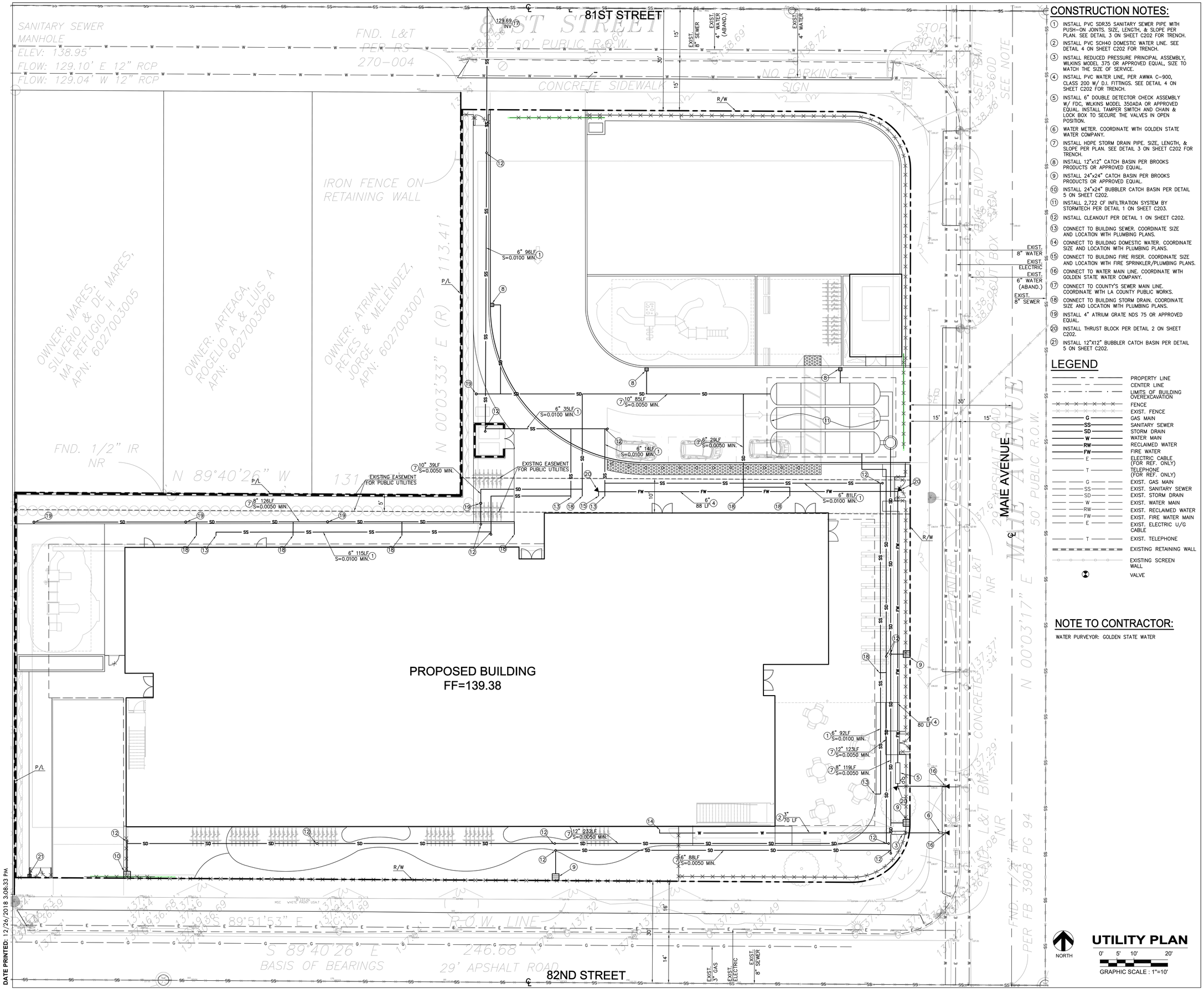
	DESIGN DEVELOPMENT 100%	07/31/2020
	CUP SUBMITTAL	10/23/2020

C18-0057 **JOB NUMBER**

GRADING PLAN

C401



CONSTRUCTION NOTES:

1. INSTALL PVC SDR35 SANITARY SEWER PIPE WITH PUSH-ON JOINTS. SIZE, LENGTH, & SLOPE PER PLAN. SEE DETAIL 3 ON SHEET C202 FOR TRENCH.
2. INSTALL PVC SCH40 DOMESTIC WATER LINE. SEE DETAIL 4 ON SHEET C202 FOR TRENCH.
3. INSTALL REDUCED PRESSURE PRINCIPAL ASSEMBLY, WILKINS MODEL 375 OR APPROVED EQUAL, SIZE TO MATCH THE SIZE OF SERVICE.
4. INSTALL PVC WATER LINE, PER AWWA C-900, CLASS 200 W/ D.I. FITTINGS. SEE DETAIL 4 ON SHEET C202 FOR TRENCH.
5. INSTALL 6" DOUBLE DETECTOR CHECK ASSEMBLY W/ FDC, WILKINS MODEL 350ADA OR APPROVED EQUAL. INSTALL TAMPER SWITCH AND CHAIN & LOCK BOX TO SECURE THE VALVES IN OPEN POSITION.
6. WATER METER. COORDINATE WITH GOLDEN STATE WATER COMPANY.
7. INSTALL HDPE STORM DRAIN PIPE. SIZE, LENGTH, & SLOPE PER PLAN. SEE DETAIL 3 ON SHEET C202 FOR TRENCH.
8. INSTALL 12"x12" CATCH BASIN PER BROOKS PRODUCTS OR APPROVED EQUAL.
9. INSTALL 24"x24" CATCH BASIN PER BROOKS PRODUCTS OR APPROVED EQUAL.
10. INSTALL 24"x24" BUBBLER CATCH BASIN PER DETAIL 5 ON SHEET C202.
11. INSTALL 2,722 OF INFILTRATION SYSTEM BY STORMTECH PER DETAIL 1 ON SHEET C203.
12. INSTALL CLEANOUT PER DETAIL 1 ON SHEET C202.
13. CONNECT TO BUILDING SEWER. COORDINATE SIZE AND LOCATION WITH PLUMBING PLANS.
14. CONNECT TO BUILDING DOMESTIC WATER. COORDINATE SIZE AND LOCATION WITH PLUMBING PLANS.
15. CONNECT TO BUILDING FIRE RISER. COORDINATE SIZE AND LOCATION WITH FIRE SPRINKLER/PLUMBING PLANS.
16. CONNECT TO WATER MAIN LINE. COORDINATE WITH GOLDEN STATE WATER COMPANY.
17. CONNECT TO COUNTY'S SEWER MAIN LINE. COORDINATE WITH LA COUNTY PUBLIC WORKS.
18. CONNECT TO BUILDING STORM DRAIN. COORDINATE SIZE AND LOCATION WITH PLUMBING PLANS.
19. INSTALL 4" ATRIUM GRATE NDS 75 OR APPROVED EQUAL.
20. INSTALL THRUST BLOCK PER DETAIL 2 ON SHEET C202.
21. INSTALL 12"X12" BUBBLER CATCH BASIN PER DETAIL 5 ON SHEET C202.

LEGEND

- PROPERTY LINE
- CENTER LINE
- LIMITS OF BUILDING OVEREXCAVATION
- FENCE
- EXIST. FENCE
- G — GAS MAIN
- SS — SANITARY SEWER
- SD — STORM DRAIN
- W — WATER MAIN
- RW — RECLAIMED WATER
- FW — FIRE WATER
- E — ELECTRIC CABLE (FOR REF. ONLY)
- T — TELEPHONE (FOR REF. ONLY)
- G — EXIST. GAS MAIN
- SS — EXIST. SANITARY SEWER
- SD — EXIST. STORM DRAIN
- W — EXIST. WATER MAIN
- RW — EXIST. RECLAIMED WATER
- FW — EXIST. FIRE WATER MAIN
- E — EXIST. ELECTRIC U/G CABLE
- T — EXIST. TELEPHONE
- EXISTING RETAINING WALL
- EXISTING SCREEN WALL
- VALVE

NOTE TO CONTRACTOR:

WATER PURVEYOR: GOLDEN STATE WATER

NORTH

UTILITY PLAN

0' 5' 10' 20'

GRAPHIC SCALE : 1"=10'

DATE PRINTED: 12/26/2018 3:08:33 PM

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C18-0057 **JOB NUMBER**

UTILITY PLAN

C501

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST CALIFORNIA CODE OF REGULATIONS (CCR), NATIONAL ELECTRICAL CODE EDITION AND ALL APPLICABLE LOCAL CODES AND REGULATIONS.
2. ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS IN COMPLIANCE TO UL REQUIREMENTS TO ACCOMMODATE CONDUCTORS SHOWN.
3. WHERE WIRE SIZES ARE INDICATED ON PLANS, FOR INDIVIDUAL CIRCUITS, THE WIRE SIZE INDICATED SHALL APPLY TO THE COMPLETE CIRCUIT, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF MECHANICAL, PLUMBING AND OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO ANY WORK.
5. CONTRACTOR SHALL EXTEND WIRING FROM ALL JUNCTION BOXES, SWITCHES, ETC. AND MAKE FINAL CONNECTION AS REQUIRED TO ALL BUILDING EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.
6. LOCATION OF LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS. AT OR NEAR DOORS, INSTALL SWITCHES ON SIDE OPPOSITE TO DOOR HINGE. VERIFY FINAL HINGE LOCATION IN FIELD PRIOR TO ANY WORK.
7. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OR OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND MINIMUM CODE REQUIRED WORKING CLEARANCES AT ALL TIMES.
8. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL OUTLET BOXES FOR SWITCHES, BELL/STROBES, FIRE ALARM PULL STATIONS. RECEPTACLES ETC. WITH CABINETS, FURNITURE, EQUIPMENT ETC., TO AVOID CONFLICT.
9. WHERE ELECTRIC MOTORS OR HEATERS ARE INSTALLED IN HUNG CEILINGS, PROVIDE DISCONNECT SWITCH IN HUNG CEILING WITHIN REACH FROM ACCESS POINT.
10. FURNISH APPROVED EXPANSION FITTINGS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS.
11. FURNISH PULL STRING IN EACH RACEWAY RUN OVER 10' IN LENGTH, IN WHICH PERMANENT WIRING IS NOT INSTALLED.
12. NOT MORE THAN THREE LIGHTING OR CONVENIENCE OUTLET CIRCUITS ARE PERMITTED IN ONE CONDUIT, PROVIDE SEPARATE CONDUIT FOR EACH HOMERUN INDICATED ON THE DRAWING, UNLESS INDICATED OTHERWISE.
13. PROVIDE PULL BOXES WHEREVER NECESSARY TO FACILITATE PULLING OF CONDUCTORS. COORDINATE LOCATIONS OF BOXES WITH OTHER TRADES TO AVOID CONFLICT. PULL BOXES SHALL BE ACCESSIBLE. THE SIZE OF PULL BOX SHALL COMPLY WITH N.E.C. REQUIREMENTS.
14. OUTLET BOXES FOR FIXTURES RECESSED IN HUNG CEILING SHALL BE ACCESSIBLE THROUGH OPENING CREATED BY REMOVAL OF FIXTURES.
15. SEE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATION FOR ADDITIONAL CONNECTION REQUIREMENTS TO CONTROL PANELS, CONTROL TRANSFORMERS, POWER FOR CONTROL SYSTEM EP AND PE SWITCHES, TIME CLOCKS, VALVES, STATS, RELAYS, DUCT SMOKE DETECTOR LOCATIONS, ETC. INDICATED ON CONTROL WIRING DIAGRAMS. ELECTRICAL CONTRACTOR SHALL VERIFY FINAL CONTROL WIRING REQUIREMENTS WITH MECHANICAL AND PLUMBING CONTRACTORS PRIOR TO ANY WORK AND PROVIDE ALL NECESSARY DEVICES AND CONNECTIONS AS REQUIRED.
16. ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT INCLUDING THOSE THAT ARE EXPOSED TO OUTSIDE ENVIRONMENT (UP TO 16') SHALL BE WEATHERPROOF TYPE, NEMA 3R.
17. NO CONDUIT RUNS SHALL BE ALLOWED IN CONCRETE SLABS. ALL CONDUITS WILL BE PLACED ABOVE ACCESSIBLE CEILING SPACES UNLESS SPECIFICALLY INDICATED TO BE UNDERGROUND.
18. LIGHTING, POWER, TELEPHONE AND COMMUNICATIONS OUTLETS SHALL NOT BE PLACED BACK-TO-BACK.
19. WHERE MORE THAN ONE LIGHT SWITCH OCCURS AT SAME LOCATION, SWITCHES SHALL BE MOUNTED IN A MULTIPLE GANG BOX UNDER A SINGLE COVER PLATE. PLATES WITH MORE THAN (3) LIGHT SWITCHES SHALL BE LABELED TO INDICATE THE LIGHT FIXTURES CONTROLLED.
20. DISCONNECT SWITCHES SHALL BE MOUNTED ON INDIVIDUAL SUPPORTS, OR OTHERWISE DIRECTLY ON EQUIPMENT, PROVIDED NO MODIFICATION TO EQUIPMENT IS NECESSARY.
21. ALL ELECTRICAL POWER LIGHTING, TELEPHONE OR SIGNAL WIRING IN FIRE RATED WALL IS TO BE INSTALLED IN A METALLIC CONDUIT SYSTEM.
22. ALL ELECTRIC MATERIAL SHALL BE LISTED BY "UL" FOR THE TYPE OF APPLICATION AND "UL" LABEL SHALL APPEAR ON ALL ELECTRICAL EQUIPMENT.
23. CONTACT UTILITY COMPANIES FOR SCOPE OF WORK PRIOR TO SUBMITTING BID; INCLUDE UTILITY CHARGES IF ANY.
24. ALL DISTRIBUTION AND CONTROL EQUIPMENT (SUCH AS CB's, SWITCHES, CONTACTORS, ETC.), TERMINATIONS SHALL BE FULLY RATED PER UL AS FOLLOWS:
    a. 125A OR LESS : 60°C OR MORE.
    b. MORE THAN 125A : 75°C OR MORE.
25. CONDUCTORS SHALL HAVE UNDERWRITER'S LABORATORIES, INC.(UL) LISTED, 600 VOLT INSULATION OF TYPE SPECIFIED BELOW OR ELSEWHERE IN THE SPECIFICATIONS. CONDUCTORS SHALL BE COPPER.
    1. BRANCH CIRCUITS - LIGHTING AND POWER.
    a. #10 AWG AND SMALLER, SOLID WIRE TYPE THW OR THHN/THWN, THHW(THHN FOR DRY LOCATION ONLY).
    b. #8 AWG TO #2 AWG, STRANDED TYPE THW OR THHN/THHW.
    c. #1 AWG AND LARGER, STRANDED TYPE XHHW.
    2. FEEDERS : TYPE THW OR THHN/THWN, OR XHHW.
26. PROVIDE GREEN INSULATED GROUNDING CONDUCTOR IN EACH RACEWAY INCLUDING CONDUITS, PLUG STRIPS, WIREMOLD. SIZE OF GROUNDING SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE ARTICLE 250.
27. WIRING METHOD SHALL BE EMT ABOVE GROUND AND MOUNTED IN CONCEALED SPACES AND SCHEDULE-40 PVC FOR UNDERGROUND INSTALLATION. USE RIGID WHEN ENCASED IN CONCRETE OR SUSCEPTIBLE TO DAMAGE.
28. USE 10AWG CONDUCTORS FOR 20 AMPERE, 120V BRANCH CIRCUITS LONGER THAN 75 FEET.
    USE 10AWG CONDUCTORS FOR 20 AMPERE, 277V BRANCH CIRCUITS LONGER THAN 200 FEET.
29. ALL SWITCH LOCATIONS ARE REQUIRED TO HAVE A NEUTRAL CONDUCTOR PROVIDED AT THE SWITCH LOCATION PER CEC 404.2(C).

ABBREVIATIONS

A	AMPERE
AF	AMPERE FRAME RATING
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
AFG	ABOVE FINISHED GRADE
AT	AMPERE TRIP RATING
AWG	AMERICAN WIRE GAUGE
BKBD	BACKBOARD
BLDG	BUILDING
BKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CFSD	COMBINATION FIRE SMOKE DAMPER
CO	CONDUIT ONLY
CONC	CONCRETE
CT	CURRENT TRANSFORMER
CU	COPPER
℄	CENTERLINE
DISC	DISCONNECT
DSBN	DISTRIBUTION SECTION
DN	DOWN
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EXIST, (E)	EXISTING
EXO	EXTERNAL OPERABLE DISCONNECT
F	FUSE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FF	FINISHED FLOOR
FG	FINISHED GRADE
FLA	FULL LOAD CURRENT
FLUOR	FLUORESCENT
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
HV	HIGH VOLTAGE
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED/INSULATED GROUND
INCAND	INCANDESCENT
ISC	SHORT CIRCUIT CURRENT AVAILABLE IN RMS SYMMETRICAL AMPERES
J-BOX	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KW	KILOWATT
KV	KILO VOLT
KVA	KILO VOLT-AMPERE
LDC	LOCAL DISTRIBUTION CABINET
LDF	LOCAL DISTRIBUTION FRAME
LCL	LONG CONTINUOUS LOAD
LTG	LIGHTING
LV	LOW VOLTAGE
MFR	MANUFACTURER
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MIN	MINIMUM
MH	MANHOLE / METAL HALIDE
MM	METER AND MAIN SECTION
MULTI	MULTI-METER SECTION
(E)	EXISTING DEVICE TO REMAIN
(R)	REMOVE EXISTING DEVICE AND ASSOCIATED CONDUIT AND WIRE

MV	MEDIUM VOLTAGE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NEW (N)	NEW; TO BE FURNISHED AND INSTALLED BY CONTRACTOR
NF	NON-FUSED
NIC	NOT IN CONTRACT
N/L	NIGHT LIGHT
NO	NUMBER, NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	POLE
PB	PULL BOX
PF	POWER FACTOR
PNL	PANEL
POC	POINT OF CONNECTION
PP	POWER POLE
PWR	POWER
PVC	POLYVINYL CHLORIDE
QUAD	QUADRUPLEX
QTY	QUANTITY
REQD	REQUIRED
REQMT	REQUIREMENT
RGS	RIGID GALVANIZED STEEL
RM	ROOM
SHT	SHEET
SN	SOLID NEUTRAL
SPEC	SPECIFICATIONS
SPDT	SINGLE POLE, DOUBLE THROW
SPST	SINGLE POLE, SINGLE THROW
SW	SWITCH
SWBD	SWITCHBOARD
TC	TIME CLOCK
TEL	TELEPHONE
TERM	TERMINAL
TP	TEMPORARY POLE
TYP	TYPICAL
UGPS	UNDERGROUND PULL SECTION
UL	UNDERWRITERS LABORATORY
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
V	VOLT, VOLTAGE
VA	VOLT-AMPERE
VFC	VARIABLE FREQUENCY CONTROLLER
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WH	WATT-HOUR
WP	WEATHERPROOF
WT	WEATHERTIGHT
WW	WIREWAY
XP	EXPLOSION PROOF
Z	IMPEDANCE
4W	FOUR-WIRE
3W	THREE-WIRE
5S	JUNCTION BOX (4 11/16" SQUARED X2 1/8" DEEP)
.	DIAMETER, PHASE
#	NUMBER
°C	DEGREE CELSIUS
(RL)	REMOVE EXISTING DEVICE AND RELOCATE AS SHOWN ON PLAN
(NL)	NEW LOCATION OF RELOCATED DEVICE

APPLICABLE CODES

1. 2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2. 2019 CALIFORNIA BUILDING CODE (CBC),PART 2, TITLE 24 C.C.R. (IBC WITH AMENDMENTS)
3. 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (NEC WITH AMENDMENTS)
4. 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (UMC WITH AMENDMENTS)
5. 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (UPC WITH AMENDMENTS)
6. 2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (IFC WITH AMENDMENTS)
7. 2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
8. 2019 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
9. 2019 CALIFORNIA ENERGY CODE (PART 6, TITLE 24 C.C.R.)
10. 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSG); PART 11, TITLE 24 C.C.R.

SHEET INDEX

SHEET #	SHEET NAME
ES0.01	ELECTRICAL LEGENDS & NOTES
ES0.02	LUMINAIRE SCHEDULE
ES1.02	ELECTRICAL SITE PLAN
ES1.03	SITE PHOTOMETRIC PLAN

POWER LEGEND AND SYMBOLS

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
	DOUBLE DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
WP	WEATHERPROOF DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
J	ABOVE CEILING, CONCEALED, JUNCTION BOX, WITH COVER, PER NATIONAL ELECTRICAL CODE (NEC) TABLE 370-b(a), 4" SQUARE DEEP, WITH PLASTER RING
J	RECESSED WALL MOUNTED, JUNCTION BOX, WITH COVER, PER NATIONAL ELECTRICAL CODE (NEC) TABLE 370-b(a), 4" SQUARE DEEP, WITH PLASTER RING
	BRANCH PANELBOARD, WALL MOUNTED, SEE PLANS AND SCHEDULE. (RECESSED MOUNTED)
OR	BRANCH PANELBOARD, WALL MOUNTED, SEE PLANS AND SCHEDULE. (SURFACE MOUNTED)
	MAIN SWITCHBOARD, POWER OR LIGHT, FLOOR STANDING ENCLOSURE, (SEE SINGLE LINE DIAGRAM AND LOAD SUMMARY)
[F]	DISCONNECT SWITCH H.P. RATED 600 VOLTS. "F" INDICATES FUSE TYPE. FUSES PER APPROVED MANUFACTURERS SHOP DRAWINGS.
M2	MAGNETIC MOTOR STARTER H.P. RATED (NUMBERS INDICATE NEMA SIZE)
+96" OR +7'-6" AFF	MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTERLINE OF OUTLET OR EQUIPMENT . FOR LIGHT FIXTURES, IT IS TO BOTTOM OF FIXTURE.
DETAIL No. / SHEET No.	DETAIL REFERENCE
EQUIPMENT ID No.	EQUIPMENT REFERENCE
SHEET No. / DETAIL No.	ELEVATION REFERENCE
	CONDUIT TURN DOWN
	CONDUIT TURN UP
	CONDUIT STUBBED AND CAPPED
	RACEWAY CONCEALED IN WALLS OR ABOVE CEILING
	CONDUIT CONCEALED IN OR UNDER FLOOR, COORDINATE WITH G.C.: OR, BURIAL CONDUIT UNDERGROUND IN SCHEDULE - 40 PVC UNLESS NOTED OTHERWISE. VERIFY DEPTH AND TRENCHING WITH G.C.
(E)	EXISTING CONDUIT AND WIRING TO REMAIN
(R)	PULL-OUT WIRES AND ABANDON CONDUIT. CUT AND CAPPED FLUSH WITH WALL OR SLAB.
E	EXISTING CONDUIT TO REMAIN
R	EXISTING CONDUIT AND WIRE TO BE REMOVED
PR	ELECTRICAL UTILITY PRIMARY
SC	ELECTRICAL UTILITY SECONDARY
T	TELEPHONE UTILITY
OH	TEMPORARY OVERHEAD CABLING
(E)	EXISTING DEVICE TO REMAIN
(R)	REMOVE EXISTING DEVICE AND ASSOCIATED CONDUIT AND WIRE
(RL)	REMOVE EXISTING DEVICE AND RELOCATE AS SHOWN ON PLAN
(NL)	NEW LOCATION OF RELOCATED DEVICE
A-1,3	HOMERUN TO CIRCUITS #1 AND #3 IN PANEL "A" (CROSSMARKS INDICATE NUMBER OF WIRES AND DOTTED CROSSMARK INDICATES GROUND WIRE.)
	3/4" CONDUIT WITH 2 #12 & 1 #12 GND WIRE U.O.N.
	3/4" CONDUIT WITH 3 #12 & 1 #12 GND WIRE U.O.N.
	3/4" CONDUIT WITH 4 #12 & 1 #12 GND WIRE U.O.N.
	3/4" CONDUIT WITH 5 #12 & 1 #12 GND WIRE U.O.N.
#10	3/4" CONDUIT WITH 2 #10 & 1 #10 GND WIRE (#10 INDICATES WIRE SIZE)
#10	3/4" CONDUIT WITH 3 #10 & 1 #10 GND WIRE (#10 INDICATES WIRE SIZE)
#10	3/4" CONDUIT WITH 4 #10 & 1 #10 GND WIRE (#10 INDICATES WIRE SIZE)
#10	3/4" CONDUIT WITH 5 #10 & 1 #10 GND WIRE (#10 INDICATES WIRE SIZE)
#10	1" CONDUIT WITH 6 #10 & 1 #10 GND WIRES (#10 INDICATING WIRE SIZE) GROUND WELL
	CONCEALED IN WALL OR CEILING
	GROUND WELL
	EXISTING (DASH INDICATES) ELECTRICAL EQUIPMENT
	TELEPHONE BACKBOARD 2'X4'X3/4" PLYWOOD. PROVIDE 2" CONDUIT TO TELEPHONE POC.
	MOLDED CASE CIRCUIT BREAKER
	SWITCH AND FUSE ASSEMBLY
	UTILITY COMPANY PULL SECTION LUGS
	GROUNDING CONNECTION TO MAIN BUILDING GROUND SYSTEM U.O.N.
N G	GROUNDING CONNECTION AT SWITCHGEAR/DISTRIBUTION BOARD WITH NEUTRAL BONDING.
M	IN-LINE UTILITY COMPANY METER
M	UTILITY METER WITH CURRENT TRANSFORMERS (CT'S) METER
SS	SOLID STATE DEVICE CONNECTED TO THE POWER DISTRIBUTION SYSTEM
GFP	GROUND FAULT PROTECTION DEVICE CONNECTED TO THE POWER DISTRIBUTION SYSTEM
T OR	TRANSFORMER WITH SECONDARY GROUND
G	ON-SITE GENERATOR SET
200-D	CONDUIT WIRING DESCRIPTION PER FEEDER SCHEDULE ON OTHER PLAN
PB	CONCRETE ELECTRICAL PULLBOX WITH LID APPROPRIATE FOR INSTALLATION LOCATION. LID SHALL BE LABELED ACCORDING TO USE.

LIGHTING LEGEND AND SYMBOLS

SYMBOL	DESCRIPTION
	SINGLE POLE MOUNTED LED AREA LUMINAIRE WITH MOTION CONTROL, MOUNTED +20'-0".
	WALL MOUNTED LED FIXTURE MOUNTED +10'-0"

NOTE TO CONTRACTOR

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

PROJECT

KIPP: IGNITE ACADEMY

1628 EAST 81ST STREET
LOS ANGELES, CA 90001

APN:
6027-003-022, -023, -024, -025, -027, -028, -029, -030, -031

CLIENT

KIPP : LA
3601 EAST FIRST STREET
LOS ANGELES, CA 90017

ARCHITECT

BERLINER
ARCHITECTS
5976 WASHINGTON BLVD
CULVER CITY, CA 90232
TEL 310.838.2100
EMAIL richardb@berliner-architects.com

CONSULTANTS

412 E. VANDERBILT WAY
San Bernardino, CA 92408
Phone: 909.890.3700
Fax: 909.890.3770
email: info@designwesteng.com

DESIGN WEST ENGINEERING
MECHANICAL · ELECTRICAL · ENERGY CONSULTANTS

REGISTERED PROFESSIONAL ENGINEER
EDWARD P. MAY
No. E19480
Exp. 6-30-2021
ELECTRICAL
STATE OF CALIFORNIA

ISSUES

	SUBMITTAL	DATE
	SCHEMATIC DESIGN	07/01/2020
	DESIGN DEVELOPMENT 100%	07/31/2020
	CUP SUBMITTAL	10/23/2020

18-46 **JOB NUMBER**

ELECTRICAL LEGENDS & NOTES

ES0.01

20-140

DATE PRINTED: 8/4/2020 11:16:54 AM BIM 360://KIPP Ignite/18-394_KIPP LA Ignite_MEP_Central.rvt

SITE LUMINAIRE SCHEDULE

TYPE	VOLTS	WATTAGE	LUMENS	LAMPS	COLOR TEMP	MOUNTING	FIXTURE DESCRIPTION	MFR.	CATALOG #	NOTES	SYMBOL
S1	120 V	59 W	6235 lm	LED	3000 K	POLE	SINGLE POLE MOUNTED LED AREA LUMINAIRE WITH MOTION CONTROL. MOUNTED +20'-0".	EATON	GLEON-AF-01-LED-E1-T3-*-EA-MS/DIM-L20 POLE: SSS5M20S8*1X		
S3	120 V	25 W	2738 lm	LED	3000 K	WALL	WALL MOUNTED LED FIXTURE MOUNTED +10'-0"	EATON	ENC-E01-LED-E1-BL2-7030-PC		

LUMINAIRE SCHEDULE NOTES

1. THE FIXTURE SCHEDULE INDICATES GENERAL DESCRIPTION OF LIGHTING FIXTURES AND MANUFACTURERS CATALOG NUMBERS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE CORRECT CEILING CONFIGURATION AND PROVIDE THE FIXTURES WITH ALL NECESSARY TRIMS AND MOUNTING HARDWARE SO THAT BOTH THE CEILING SYSTEM AND THE FIXTURE CONSTRUCTION MATCHES. PROVIDE SEISMIC HANGERS AS REQUIRED.
2. IT SHALL BE CONTRACTORS RESPONSIBILITY TO VERIFY THE EXACT LOCATION OF ALL LIGHTING FIXTURES AND TYPE OF CEILING WITH ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ANY WORK. SEE ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ANY WORK. SEE ARCHITECTURAL ELEVATION DRAWING FOR MOUNTING HEIGHTS OF WALL MOUNTED FIXTURES.
3. A JUNCTION BOX MUST BE PROVIDED WITH ALL EXIT LIGHTS CONNECTED TO MORE THAN ONE SET OF CONDUCTORS UNLESS THE EXIT LIGHT FIXTURE IS FURNISHED WITH AN APPROVED OUTLET BOX FOR THROUGH WIRING.
4. LIGHTING FIXTURE WIRING FOR ROOMS CONTROLLED BY MORE THAN ONE LIGHT SWITCH SHALL BE ARRANGED SO THAT THE OUTSIDE LAMPS ON EACH FIXTURE ARE CONTROLLED BY ONE SWITCH AND THE INSIDE LAMPS BY THE OTHER TO PROVIDE MULTI-LEVELS OF ILLUMINATION.
5. BATTERY PACK EMERGENCY TEST SWITCHES SHALL BE INTEGRAL TO LIGHT FIXTURE. COORDINATION OF SWITCH LOCATION IS REQUIRED WITH DESIGN TEAM IF INTEGRAL INSTALLATION IS NOT POSSIBLE.
6. FIXTURES DESIGNATED AS EMERGENCY SHALL BE SUPPLIED WITH INTEGRAL BATTERY PACK CAPABLE OF POWERING TWO T8 LAMPS FOR 90 MINUTES WITH A TOTAL LIGHT OUTPUT OF 1100 LUMENS OR ONE F13 BIAX FOR 90 MINUTES WITH A TOTAL LIGHT OUTPUT OF 520 LUMENS.
8. PROVIDE ALL REQUIRED MOUNTING HARDWARE ANCHORAGE AND SUPPORTS TO INSTALL LIGHTING FIXTURES.
9. PROVIDE SWIVEL BASE AND STEMS. LENGTHS AS REQUIRED TO MOUNT THE PENDANT MOUNTED FIXTURES. THE INSTALLATION SHALL COMPLY WITH TITLE 24 SEISMIC AND APPLICABLE UBC REQUIREMENTS.
10. THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERABLE LIGHTING SYSTEM AS PART OF THIS BUILDING CONTRACT.
11. SUSPENSION SYSTEM FOR LIGHT FIXTURES WHICH HAVE PASSED SHAKING TABLE TESTS APPROVED BY THE OFFICE OF THE STATE OF ARCHITECT, OR WHICH, AS INSTALLED, ARE FREE TO SWING A MINIMUM OF 45' FROM THE VERTICAL IN ALL DIRECTIONS WITHOUT CONTACTING OBSTRUCTIONS. SHALL BE ASSUMED TO COMPLY WITH THE LATERAL FORCE REQUIREMENTS FOR SECTION 2305, PART 2, TITLE 24, CCR. UNLESS OF THE CABLE TYPE FREE SWING SUSPENSION SYSTEM SHALL HAVE A SAFETY WIRE OR CABLE ATTACHED TO THE FIXTURE AND STRUCTURE AT EACH SUPPORT CAPABLE OF SUPPORTING FOUR TIMES THE SUPPORTED LOAD.
12. FOR SUSPENDED AND SURFACE MOUNTED LIGHT FIXTURES, THE PRODUCT OF ICP NEED NOT EXCEED 12 FOR ANY VALUE OF 1.
13. LED LIGHT FIXTURES SHALL BE IN ACCORDANCE WITH IES, NFPA, UL, AS SHOWN ON THE DRAWINGS, AND AS SPECIFIED.
14. LED LIGHT FIXTURES SHALL BE REDUCTION OF HAZARDOUS SUBSTANCES (ROHS)-COMPLIANT.
15. LED DRIVERS SHALL INCLUDE THE FOLLOWING FEATURES UNLESS OTHERWISE INDICATED:
·MINIMUM EFFICIENCY: 85% AT FULL LOAD.
·MINIMUM OPERATING AMBIENT TEMPERATURE: -20 DEG C. (-4 DEG F.)
·INPUT VOLTAGE: 120 - 277V (±10%) AT 60 HZ.
·INTEGRAL SHORT CIRCUIT, OPEN CIRCUIT, AND OVERLOAD PROTECTION.
·POWER FACTOR: >=0.95.
·TOTAL HARMONIC DISTORTION: <=20%.
·COMPLY WITH FCC 47 CFR PART 15.
16. LED MODULES SHALL INCLUDE THE FOLLOWING FEATURES UNLESS OTHERWISE INDICATED:
·COMPLY WITH IES LM-79 AND LM-80 REQUIREMENTS.
·MINIMUM CRI 80 AND COLOR TEMPERATURE 4000K UNLESS OTHERWISE SPECIFIED IN LUMINAIRE SCHEDULE.
·MINIMUM RATED LIFE: 50,000 HOURS PER IES L70.
·LIGHT OUTPUT LUMENS AS INDICATED IN THE LUMINAIRE SCHEDULE.
17. LED DOWNLIGHTS:
·HOUSING, LED DRIVER, AND LED MODULE SHALL BE PRODUCTS OF THE SAME MANUFACTURER.
18. LED TROFFERS:
·LED DRIVERS, MODULES, AND REFLECTOR SHALL BE ACCESSIBLE, SERVICEABLE, AND REPLACEABLE FROM BELOW THE CEILING.
·HOUSING, LED DRIVER, AND LED MODULE SHALL BE PRODUCTS OF THE SAME MANUFACTURER.

McGraw-Edison

Catalog #		Type
Project		
Comments		Date
Prepared by		

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

SPECIFICATION FEATURES

Construction
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics
Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 3000K, 5000K and 6000K CCT.

Electrical
LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA, 800mA and 1200mA drive currents (nominal).

Mounting
STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall mount bracket option. QUICK MOUNT ARM: Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish
Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

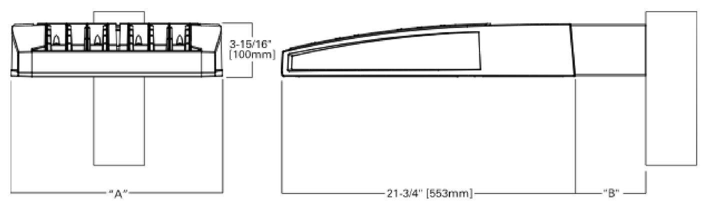
Warranty
Five-year warranty.

GLEON
GALLEON LED

1-10 Light Squares
Solid State LED

AREA/SITE LUMINAIRE

DIMENSIONS



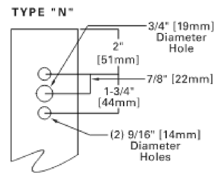
DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length [1]	Weight with Arm (lbs.)	EPA with Arm [2] (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

DRILLING PATTERN

TYPE "N"



CERTIFICATION DATA
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium® Qualified*

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

EATON Powering Business Worldwide

*www.designlights.org

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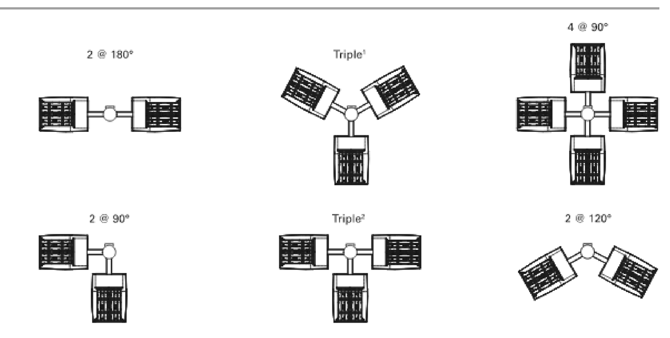
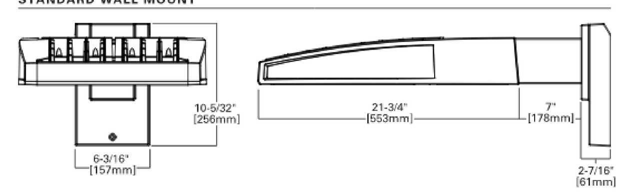
ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AF-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AF-10	16" Extended Arm (Required)	16" Extended Arm (Required)

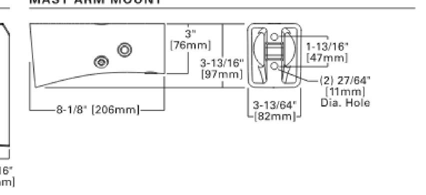


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

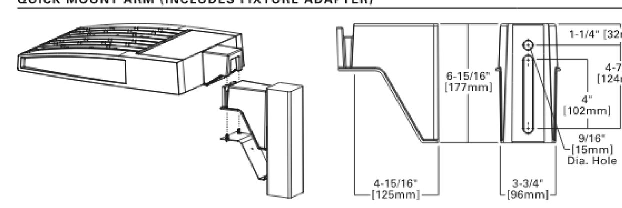
STANDARD WALL MOUNT

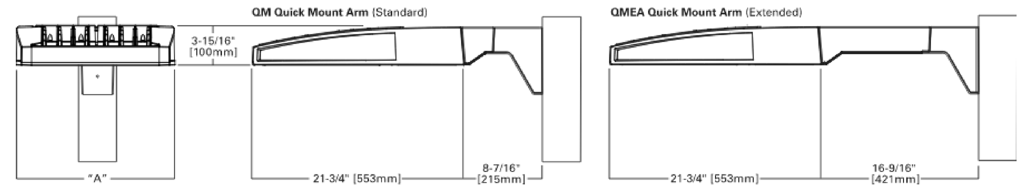


MAST ARM MOUNT



QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)





QUICK MOUNT ARM DATA

Number of Light Squares [1,2]	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	1.11
5-6 [3]	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	59 (26.82 kgs.)	

NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

EATON Powering Business Worldwide
Eaton
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

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ORDERING INFORMATION

Sample Number: GLEON-AF-04-LED-E1-T3-GM-QM

Product Family [1,2]	Light Engine	Number of Light Squares [3]	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	AF=1A Drive Current	01=1 02=2 03=3 04=4 05=5 [4] 06=6 07=7 [5] 08=8 [5] 09=9 [6] 10=10 [6]	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V [7] 480=480V [2,8]	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	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[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]

Options (Add as Suffix)	Accessories (Order Separately)
7030=70 CRI 3000K [13] 8030=80 CRI 3000K [14] 7050=70 CRI 5000K [13] 7060=70 CRI 6000K [13] 600=Drive Current Factory Set to Nominal 600mA [15] 800=Drive Current Factory Set to Nominal 800mA [15] 1200=Drive Current Factory Set to Nominal 1200mA [15,16] F=Single Fuse (120, 277 or 347V. Must Specify Voltage) FF=Double Fuse (208, 240 or 480V. Must Specify Voltage) 2L=Two Circuits [17,18] DIM=External 0-10V Dimming Leads [19,20] P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Volatage) [21] PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle [21] R=NEMA Twistlock Photocontrol Receptacle [21] AHD145=After Hours Dim, 5 Hours [22] AHD245=After Hours Dim, 6 Hours [22] AHD255=After Hours Dim, 7 Hours [22] AHD355=After Hours Dim, 8 Hours [22] HA=50°C High Ambient [23] MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height [24,25] MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height [24,26] MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height [22,25] MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range) [24,28] MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height [24,25,29] MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height [24,26,29] MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height [22,27,29] MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range) [24,28,29] MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height [24,25] MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height [24,26] MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height [24,27] MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range) [24,28] LWR-LW=LumaWatt Pro Wireless Sensor, Wide Lens for 8' - 16' Mounting Height [30] LWR-LN=LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height [30] L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top TH=Tool-less Door Hardware LCF=Light Square Trim Plate Painted to Match Housing [31] HSS=Factory Installed House Side Shield [32] CE=CE Marking [33]	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 Sensor [24] 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 Kit [10] GLEON-QMEA=Quick Mount Extended Arm Kit [11] LS/HSS=Field Installed House Side Shield [32,34]

NOTES:
1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
2. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
3. Standard 4000K CCT and minimum 70 CRI.
4. Not compatible with MS/4-LXX or MS/1-LXX sensors.
5. Not compatible with extended quick mount arm (QMEA).
6. Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA).
7. 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.
8. 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).
9. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
10. Factory installed.
11. Maximum 8 light squares.
12. Maximum 6 light squares.
13. Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
14. Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
15. 1 Amp standard. Use dedicated IES files for 600mA, 800mA and 1200mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
16. Not available with HA option.
17. 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
18. Not available with LumaWatt Pro wireless sensors.
19. Cannot be used with other control options.
20. Low voltage control lead brought out 18" outside fixture.
21. Not available if any "MS" sensor is selected. Motion sensor has an integral photocell.
22. Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
23. 50°C lumen maintenance data applies to 600mA, 800mA and 1A drive currents.
24. 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 Eaton for more information.
25. Approximately 22' detection diameter at 8' mounting height.
26. Approximately 40' detection diameter at 20' mounting height.
27. Approximately 60' detection diameter at 40' mounting height.
28. Approximately 100' detection diameter at 40' mounting height.
29. Replace X with number of Light Squares operating in low output mode.
30. LumaWatt Pro wireless sensors are factory installed only requiring network components LWP-EM-1, LWP-GW-1 and LWP-PoE8 in appropriate quantities. See www.eaton.com/lighting for LumaWatt Pro application information.
31. Not available with house side shield (HSS).
32. Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
33. CE is not available with the LWR, MS, MS/X, MS/DIM, P, R or PER7 options. Available in 120-277V only.
34. One required for each Light Square.

EATON Powering Business Worldwide
Eaton
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

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March 12, 2018 4:50 PM

Invue

Catalog #		Type
Project		
Comments		Date
Prepared by		

DESCRIPTION

The Entri LED luminaire features a classic and stylish design with the added benefits of solid state lighting technology, offering outstanding uniformity and energy savings. Using Cooper Lighting Solutions' proprietary LED LightSquare technology and AccuLED Optics™ system, the Entri LED luminaire offers designers vast versatility in system design, function and performance. Use Entri LED for wall mount architectural lighting applications and egress lighting requirements. UL/cUL listed for use in wet locations.

SPECIFICATION FEATURES

Construction
HOUSING: Heavy wall, one-piece, die-cast aluminum construction for precise tolerance control and repeatability in manufacturing. Integral extruded aluminum heat sink provides superior thermal heat transfer in +40°C ambient environments. FACEPLATE / DOOR: One-piece, die-cast aluminum construction. Captive, side hinged faceplate swings open via release of one flush mount die-cast aluminum latch on housing side panel. GASKET: One-piece molded silicone gasket mates perfectly between the door and housing for repeatable seal. LENS: Uplight lens is impact-resistant, 5/32" thick tempered frosted glass sealed to housing with continuous bead silicone gasket. Downlight lens is an LED LightSquare with integral optics sealed for IP66 rating. HARDWARE: Stainless steel mounting screws and latch hardware allow access to electrical components for installation and servicing.

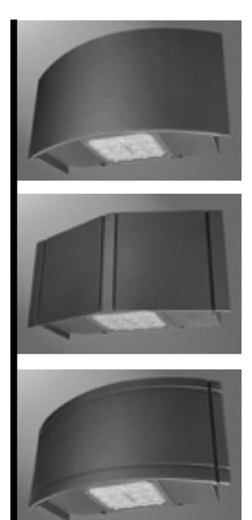
Optics
Choice of 9 patented, high efficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. CRI and CCT offering includes 2200K, 2700K, 3000K, 3500K, 4000K, 5000K, and 5700K with minimum 70CRI and 2700K and 3000K with minimum 80CRI all within 5-step MacAdam ellipse.

Electrical
LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Greater than 0.9 power factor, less than 20% harmonic distortion, and is suitable for operation in -40°C to 40°C ambient environments and optional 50C construction available. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightSquare feature an IP66 enclosure rating and maintain greater than 98% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -20°C ambient environments, WaveLinx™, occupancy sensor, and dimming options available.

Mounting
JUNCTION BOX: Standard with zinc-plated, quick-mount junction box plate that mounts directly to 4" J-Box. LightSquare mounts facing downward. Fixture slides over mounting plate and is secured with two stainless steel fasteners. Mounting plate features a one-piece EPDM gasket on back side of plate to firmly seal fixture to wall surface, forbidding entry of moisture and particulates. Optional mounting arrangements utilize a die-cast mounting adaptor box to allow for LED battery pack, surface conduit and trough branch wiring. The Entri LED luminaire is approved for mounting on combustible surfaces.

Finish
Housing is finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. LightSquare cover plates are standard white and may be specified to match finish of luminaire housing. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult Outdoor Architectural Colors brochure for a complete selection.

Warranty
Five-year warranty.

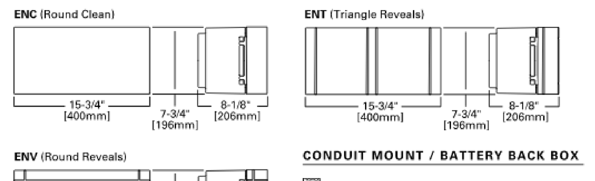


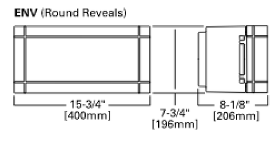
ENC/ENT/ENV
ENTRI LED

LightSquare
Solid State LED

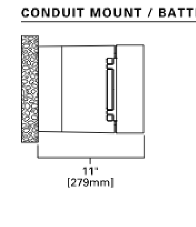
ARCHITECTURAL WALL LUMINAIRE

DIMENSIONS





CONDUIT MOUNT / BATTERY BACK BOX



CERTIFICATION DATA
UL/cUL Listed
ISO 9001
IP66 LightSquares
LM79 / LM80 Compliant

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz
-30°C Minimum Temperature
40°C Ambient Temperature Rating (50°C high ambient optional)

SHIPPING DATA
Approximate Net Weight:
15.2 lbs. (6.9 kgs.) - Without backbox
29.1 lbs. (13.2 kgs.) - With backbox

COOPER Lighting Solutions

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ORDERING INFORMATION

Sample Number: ENC-SA1C-740-U-T4W-GM-ULG-HA-ZW-SWPD4BK

Product Family	Light Engine: Configuration	Light Engine: Drive Current	Color Temperature	Voltage	Distribution	Finish
ENC=Entri Round Clean ENT=Entri Triangle Reveals ENV=Entri Round Reveals	SA1=1 Square	A=350mA B=450mA C=600mA D=800mA E=1000mA F=1200mA	722=70CRI, 2200K [2] 727=70CRI, 2700K [2] 730=70CRI, 3000K [2] 735=70CRI, 3500K 740=70CRI, 4000K 750=70CRI, 5000K [2] 760=70CRI, 5700K [2] 827=80CRI, 2700K [2] 830=80CRI, 3000K [2]	U=UNV (120-277) 1=120 2=208 3=240 4=277 8=480 9=347	T2=Type II T3=Type III T4FT=Type IV Forward Throw T4W=Type IV 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	BZ=Bronze AP=Grey BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White

Options (Add as Suffix)	Accessories (Order Separately)
F=Singled fused (Must specify voltage, fused on single hot leg of 120, 277, or 347) FF=Doubled fused (Must specify voltage, fused on both hot legs of 208, 240, or 480) X=Driver Surge Protection (6kV) Only EBP=Battery Pack with Back Box (Must specify voltage, available in 120 or 277) [1,3,8,9,10,19] CBP=Cold Weather Battery Pack with Back Box (Must specify voltage, available in 120 or 277) [1,3,8,9,10,19] L90=Rotated Left 90° R90=Rotated Right 90° HSS=Factory Installed House Side Shield [17] ULG=Uplight Glow [6] LCF=LightSquare Trim Plate Matches Housing Finish [16] WG=Wire Guard TR=Tamper Resistant Hardware BOX=Empty back box (1/2" NPT, each side with plugs installed HA=50°C High Ambient [7] DIM=0-10V Dimming Driver [4,5] BPC=Button Type Photocontrol (Must specify voltage, available in 120, 208, 240, 277V, 347, and 480) AHD145=After Hours Dim, 5 Hours, 50% [18] AHD245=After Hours Dim, 6 Hours, 50% [18] AHD255=After Hours Dim, 7 Hours, 50% [18] AHD355=After Hours Dim, 8 Hours, 50% [18] MS/DIM-L08=Motion Sensor for Dimming Operation, Up to 8' Mounting Height [11,12,13] MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height [11,12,13] MS-L08=Motion Sensor for ON/OFF Operation, Up to 8' Mounting Height [11,12,13] MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height [11,12,13] LWR-LW=Englighted Wireless Sensor, 8' - 16' Mounting Height [13,14,15] LWR-LN=Enlighted Wireless Sensor, 16' - 40' Mounting Height [13,14,15] ZW=Wavelinx-enabled 4-PIN Twistlock Receptacle [20,21] ZW-SWPD4XX=Wavelinx Wireless Sensor, 7' - 15' Mounting Height [20,21,23] ZW-SWPD5XX=Wavelinx Wireless Sensor, 15' - 40' Mounting Height [20,21,23]	MA1253=10kV Circuit Module Replacement MA1253-480V=10kV Circuit Module Replacement (480V only) FSIR-100=Wireless Configuration Tool for Occupancy Sensor [11] VA6172=Wireguard Accessory VA6173=Tamper-Resistant Driver Bit VA6174=Vandal Shield in Accessory VA2001-XX=Thru-Way Conduit Box SWPD4-XX=Wavelinx Wireless Sensor, 7' – 15' Mounting Height (Available colors: BZ=Bronze; WH=White; BK=Black) [20,21,22,23] SWPD5-XX=Wavelinx Wireless Sensor, 15' – 40' Mounting Height (Available colors: BZ=Bronze; WH=White; BK=Black) [20,21,22,23] FSIR-100=Wireless Configuration Tool for Occupancy Sensor WOLC-7P-10A=WaveLinx Outdoor Control Module (7-pin) LS/HSS=House Side Shield (Works with all distributions listed for Entri)

NOTES:
1. EBP or CBP options limited to 25°C, 120-277V only. Not available in combination with sensor options.
2. Extended lead times apply. Use dedicated IES files when performing layouts.
3. Not available with HA option.
4. Cannot be used with other control options.
5. Low voltage control lead brought out 18" outside fixture.
6. ULG only available in 740
7. Not available with ULG option
8. Cold weather option operates -20°C to +40°C, standard 0°C to +40°C.
9. LED standard integral battery pack is rated for minimum operating temperature 32°F (0°C). Operates downlight for 90-minutes
10. LED cold weather integral battery pack is rated for minimum operating temperature -4°F (-20°C). Operates downlight for 90-minute
11. 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
12. Replace LXX with the available mounting height options: L08, L20, L40 or L40W are the only choices.
13. Includes integral photosensor.
14. LumaWatt wireless sensors are factory installed requiring network components in appropriate quantities.
15. Bronze sensor is shipped with Bronze fixtures. White sensor shipped on all other housing color options.
16. Not available with HSS option.
17. Only for use with SL2, SL3 and SL4 distributions. The light square trim plate is painted black when the HSS option is selected.
18. Requires the use of BPC photocontrol. See After Hours Dim supplemental guide for additional information.
19. Control option limited to BPC=Button Type Photocontrol (must specify voltage).
20. Cannot be used in conjunction with photocontrol or other controls systems (BPC, MS, LWR).
21. WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed.
22. Requires ZW.
23. Replace XX with sensor color (WH, BZ, or BK).

COOPER Lighting Solutions

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May 19, 2020 1:57 PM

LUMINAIRE CUTSHEETS | 1

PROJECT

KIPP: IGNITE ACADEMY

1628 EAST 81ST STREET
LOS ANGELES, CA 90001

APN:
6027-003-022, -023, -024, -025, -027, -028, -029, -030, -031

CLIENT

KIPP : LA
3601 EAST FIRST STREET
LOS ANGELES, CA 90017

ARCHITECT

BERLINER ARCHITECTS

5976 WASHINGTON BLVD
CULVER CITY, CA 90232
TEL 310.838.2100
EMAIL richardb@berliner-architects.com

CONSULTANTS

412 E. VANDERBILT WAY
San Bernardino, CA 92408
Phone: 909.890.3700
Fax: 909.890.3770
email: info@designwesteng.com

DESIGN WEST ENGINEERING
MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS

REGISTERED PROFESSIONAL ENGINEER
LEONARD P. MAYA
No. E19480
Exp. 6-30-2021
ELECTRICAL
STATE OF CALIFORNIA

ISSUES

	SUBMITTAL	DATE
	SCHEMATIC DESIGN	07/01/2020
	DESIGN DEVELOPMENT 100%	07/31/2020
	CUP SUBMITTAL	10/23/2020

18-46 JOB NUMBER

LUMINAIRE SCHEDULE

ES0.02

20-140

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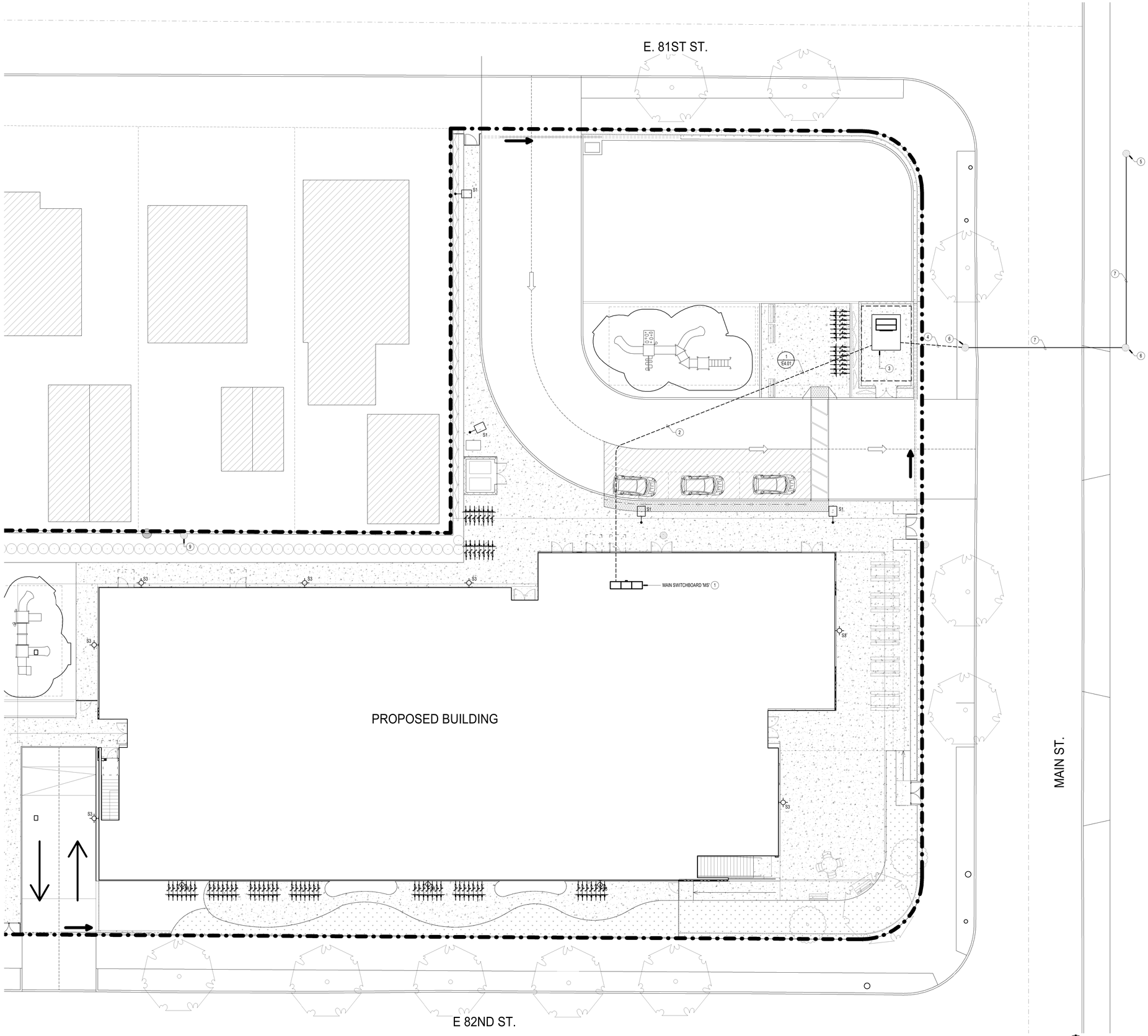


GENERAL NOTES

1. *ALL UTILITY SERVICES SHALL BE INSTALLED PER THE UTILITY COMPANY REQUIREMENTS. VERIFY FINAL CONSTRUCTION REQUIREMENTS WITH UTILITY COMPANY SERVICE PLANNERS.*
2. *THE CONTRACTOR SHALL INSPECT AND VERIFY ALL FIELD CONDITIONS PRIOR TO INSTALLATION OF UTILITY SERVICES.*
3. *COORDINATE TRENCH ROUTING AND EQUIPMENT LOCATIONS WITH EXISTING CONDITIONS AND NEW WORK.*
4. *UTILITY SERVICE INFORMATION SHOWN IS FOR BIDDING PURPOSES ONLY. ACTUAL CONSTRUCTION DOCUMENTS SHALL BE OBTAINED FROM THE APPROPRIATE UTILITY COMPANY REPRESENTATIVE.*
5. *THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY REPRESENTATIVE TO ESTABLISH PRE-CONSTRUCTION COORDINATION, OBTAIN ALL NECESSARY METERS AND/OR APPROVALS, AND SCHEDULE UTILITY WORK TO COORDINATE WITH THE CONSTRUCTION SCHEDULE.*
6. *ALL SITE BRANCH CIRCUIT WIRING SHALL BE #10 AWG. OR LARGER.*
7. *CONTRACTOR SHALL VERIFY EXISTING BUILDING FOOTING PRIOR TO INSTALLATION OF STUB-UP CONDUITS FOR NEW WALL MOUNTED JUNCTION BOX TO AVOID ANY INTERFERENCE.*
8. *CONTRACTOR SHALL UTILIZE 'GPR' GROUND PENETRATING RADAR TO SURVEY AND TRACE ALL EXISTING UNDERGROUND UTILITY LINES IN AREAS WHERE NEW TRENCHING IS PLANNED. CONTRACTOR TO SUBMIT "GPR" REPORT TO PROJECT MANAGER FOR REVIEWING PRIOR TO TRENCHING.*
9. *ALL POWER UTILITY WORK SHALL BE IN COMPLIANCE WITH THESE DRAWINGS AND THE REQUIREMENTS OF THE SERVING UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE SERVING UTILITY TO RECEIVE COMPLETE INFORMATION ON THEIR REQUIREMENTS PRIOR TO THE SUBMISSION OF THE BID. THE ACT OF SUBMITTING THE BID SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO INSTALL SERVICE IN COMPLIANCE WITH THE SERVING UTILITY AND THE CONTRACT DOCUMENTS.*
10. *ALL SITE UNDERGROUND CONDUIT TO BE 1" MIN. UNLESS OTHERWISE NOTED.*
11. *SUPPORT CONDUIT(S) EVERY 10'-0" AND WITHIN 3'-0" OF ANY JUNCTION BOX OR TERMINATION.*
12. *CONTACT INFORMATION FOR UTILITY COMPANIES ARE AS FOLLOWS:*

POWER
MATTHEW GOMEZ
SOUTHERN CALIFORNIA EDISON
310-608-5016

TELEPHONE
(NAME) TBD
(COMPANY) TBD
(CONTACT INFO)TBD

CONSTRUCTION NOTES

1. *UNDERGROUND PULLSECTION PER POWER UTILITY SERVICE REQUIREMENTS. SEE SINGLELINE DIAGRAM(S) FOR FURTHER INFORMATION. PROVIDE MINIMUM CLEARANCES AS REQUIRED BY THE SERVICE UTILITY COMPANY.*
2. *POWER UTILITY SECONDARY CONDUITS. PROVIDE (1)-5"C.O. PER EACH 400A OF SERVICE CAPACITY PLUS SPARE CONDUIT AS SPECIFIED BY UTILITY COMPANY, UNLESS NOTED OTHERWISE. VERIFY SIZE AND QUANTITY OF CONDUITS REQUIRED WITH UTILITY COMPANY PRIOR TO BID. ALL WORK TO BE DONE FROM UTILITY CO. APPROVED PLANS.*
3. *POWER UTILITY PAD (OR SLAB BOX). VERIFY SECONDARY/PRIMARY HANDHOLE REQUIREMENTS. PROVIDE GROUNDING PER UTILITY COMPANY REQUIREMENTS.*
4. *(1)-5"C.O. FOR PRIMARY SERVICE PER POWER UTILITY COMPANY REQUIREMENTS. PROVIDE 3" CONCRETE COVER AS REQUIRED BY UTILITY CO., UNLESS OTHERWISE NOTED. VERIFY SIZE AND QUANTITY OF CONDUITS REQUIRED WITH UTILITY COMPANY PRIOR TO BID. ALL WORK TO BE DONE FROM UTILITY CO. APPROVED PLANS.*
5. *EXISTING UTILITY POLE #1753085E*
6. *NEW UTILITY POWER POLE.*
7. *PROVIDE OVERHEAD CONDUCTORS BETWEEN POWER POLES PER POWER UTILITY COMPANY REQUIREMENTS.*

PROJECT

KIPP: IGNITE ACADEMY

1628 EAST 81ST STREET
LOS ANGELES, CA 90001

APN:
6027-003-022, -023, -024, -025, -027, -028, -029, -030, -031

CLIENT

KIPP : LA
3601 EAST FIRST STREET
LOS ANGELES, CA 90017

ARCHITECT

BERLINER
ARCHITECTS
5976 WASHINGTON BLVD
CULVER CITY, CA 90232
TEL 310.838.2100
EMAIL richardb@berliner-architects.com

CONSULTANTS

412 E. VANDERBILT WAY
San Bernardino, CA 92408
Phone: 909.890.3700
Fax: 909.890.3770
email: info@designwesteng.com
DESIGN WEST ENGINEERING
MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS

REGISTERED PROFESSIONAL ENGINEER
EDWARD P. KAY
No. E19480
Exp. 6-30-2021
ELECTRICAL
STATE OF CALIFORNIA

ISSUES

	SUBMITTAL	DATE
	SCHEMATIC DESIGN	07/01/2020
	DESIGN DEVELOPMENT 100%	07/31/2020
	CUP SUBMITTAL	10/23/2020

18-46 **JOB NUMBER**

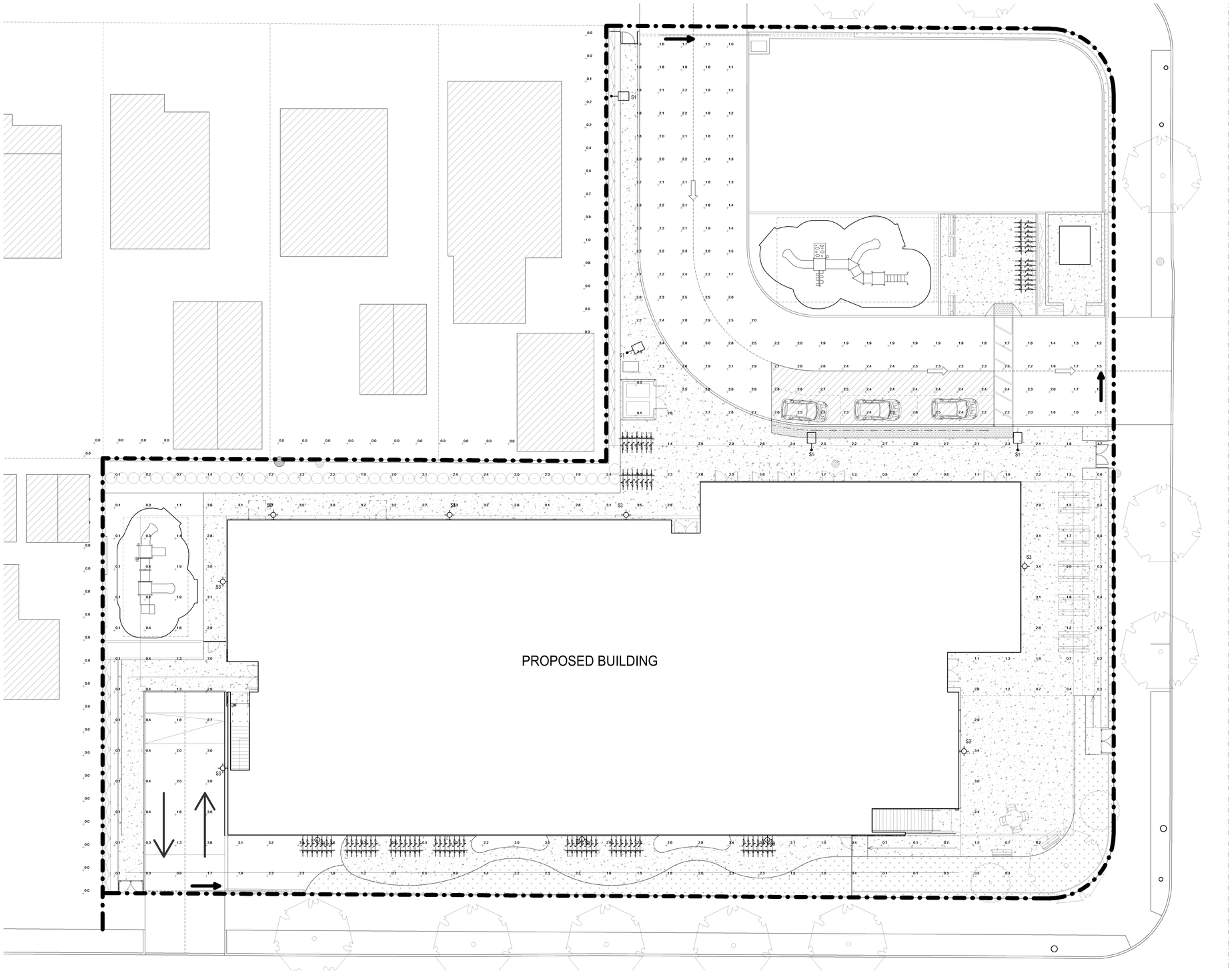
ELECTRICAL SITE PLAN

ES1.02

20-140

ELECTRICAL SITE PLAN | 3/32" = 1'-0" | 1

DATE PRINTED: 8/4/2020 11:17:00 AM
BIM 360://KIPP Ignite/18-394_KIPP LA Ignite_MEP_Central.rvt



Schedule

Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	LLF	Wattage
	S1	4	EATON - McGRAW-EDISON (FORMER COOPER LIGHTING)	GLEON-AF-01-LED-E1-T3	SINGLE POLE MOUNTED LED AREA LUMINAIRE MOUNTED >20'-0"	LED	16	GLEON-AF-01-LED-E1-T3.ies	390	1	59
	S3	10	EATON - INVUE (FORMER COOPER LIGHTING)	ENC-E01-LED-E1-BL2	WALL MOUNTED LED FIXTURE MOUNTED +10'-0"	LED	21	ENC-E01-LED-E1-BL2.ies	130	1	24.7

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
BUILDING PERIMETER	+	1.7 fc	3.6 fc	0.0 fc	N/A	N/A
DRIVEWAY	+	2.1 fc	3.1 fc	1.0 fc	3.1:1	2.1:1
BEYOND P.L.	+	0.1 fc	1.0 fc	0.0 fc	N/A	N/A

SITE PHOTOMETRIC PLAN | 3/32" = 1'-0" | 1

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PROJECT

KIPP: IGNITE ACADEMY

1628 EAST 81ST STREET
LOS ANGELES, CA 90001

APN:
6027-003-022, -023, -024, -025, -027, -028, -029, -030, -031

CLIENT

KIPP : LA
3601 EAST FIRST STREET
LOS ANGELES, CA 90017

ARCHITECT

BERLINER
ARCHITECTS

5976 WASHINGTON BLVD
CULVER CITY, CA 90232
TEL 310.838.2100
EMAIL richardb@berliner-architects.com

CONSULTANTS

412 E. VANDERBILT WAY
San Bernardino, CA 92408
Phone: 909.890.3700
Fax: 909.890.3770
email: info@designwesteng.com

DESIGN WEST ENGINEERING
MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS

REGISTERED PROFESSIONAL ENGINEER
EDWARD P. KAY
No. E19480
Exp. 6-30-2021
ELECTRICAL
STATE OF CALIFORNIA

ISSUES

	SUBMITTAL	DATE
	SCHEMATIC DESIGN	07/01/2020
	DESIGN DEVELOPMENT 100%	07/31/2020
	CUP SUBMITTAL	10/23/2020

18-46 **JOB NUMBER**

SITE PHOTOMETRIC PLAN

ES1.03

20-140