RENOVATIONS TO
LAGRANGE POLICE DEPARTMENT

FOR

CITY OF LAGRANGE

100 W HARALSON STREET
LAGRANGE, GEORGIA

(ELECTRICAL)

PROJECT NUMBER 1911

FOR BID AND PERMIT

12 AUGUST 2019

ADDITIVE ALTERNATIVES

BASE BID - ALL WORK IN PHASE ONE

ADDITIVE ALTERNATIVE NO.1
IN SPACES 128 AND 129 INSTALL NEW PORCELAIN TILE FLOORS AND NEW PORCELAIN TILE (FULL HEIGHTS) ON ALL WALLS, PROVIDE NEW PLUMBING FIXTURES, NEW CEILING, NEW LIGHTS AND NEW VANITY PER DETAIL 4/A7-1.

ADDITIVE ALTERNATIVE NO.2- ALL WORK IN PHASE II (2)

ADDITIVE ALTERNATIVE NO.3- ALL WORK IN PHASE III (3)

ADDITIVE ALTERNATIVE NO.4- ALL WORK IN PHASE IV (4)

ADDITIVE ALTERNATIVE NO.5
TO REMOVE ALL EXISTING DATA CABLING ON THE 100 LEVEL, IN ITS ENTIRETY FROM THE SITE. INSTALL NEW CAT 7 CABLING FROM ALL NEW AND EXISTING DATA DROPS, HOMERUN EACH DROP TO SPACE 108. MAKE TERMINATIONS AT WALL LOCATIONS, LEAVE SIX (6) FEET OF SLACK IN SPACE 108 FOR OWNER TO TERMINATE. COORDINATE TO TEST AND LABEL ALL DROPS.

ADDITIVE ALTERNATIVE NO.6
TO REMOVE ALL EXISTING DATA CABLING ON THE 200 LEVEL, IN ITS ENTIRETY FROM THE SITE. INSTALL NEW CAT 7 CABLING FROM ALL NEW AND EXISTING DATA DROPS, HOMERUN EACH DROP TO SPACE 225. MAKE TERMINATIONS AT WALL LOCATIONS, LEAVE SIX (6) FEET OF SLACK IN SPACE 225 FOR OWNER TO TERMINATE. COORDINATE TO TEST AND LABEL ALL DROPS.

ADDITIVE ALTERNATIVE NO.7
TO REMOVE ALL EXISTING DATA CABLING ON THE 300 LEVEL, IN ITS ENTIRETY FROM THE SITE. INSTALL NEW CAT 7 CABLING FROM ALL NEW AND EXISTING DATA DROPS, HOMERUN EACH DROP TO SPACE 338. MAKE TERMINATIONS AT WALL LOCATIONS, LEAVE SIX (6) FEET OF SLACK IN SPACE 338 FOR OWNER TO TERMINATE. COORDINATE TO TEST AND LABEL ALL DROPS.

Phasing and Liquidated Damages

Phase 1
To be Substantial Complete within 190 Consecutive Calendar Days, after commencement of work , on Phase 1. Liquidated Damages in the sum of $100 a day (Consecutive Calendar Days) will be due the Owner, If Substantial Completion deadline is not met by the General Contractor. No time extensions will be granted for Rain and Mud days since this project is Mainly Interior Renovations, and the Contractor's Staging Areas are already a paved surface.

Phase 2
To begin 14 Days after Substantial Completion of Phase 1, and To be Substantial Complete within 140 Consecutive Calendar Days, after commencement of work, on Phase 2. Liquidated Damages in the sum of $200 a day (Consecutive Calendar Days) will be due the Owner, If Substantial Completion deadline is not met by the General Contractor. No time extensions will be granted for Rain and Mud days since this project is Mainly Interior Renovations, and the Contractor's Staging Areas are already a paved surface.

Phase 3
To begin 14 Days after Substantial Completion of Phase 2, and To be Substantial Complete within 120 Consecutive Calendar Days, after commencement of work, on Phase 3. Liquidated Damages in the sum of $200 a day (Consecutive Calendar Days) will be due the Owner, If Substantial Completion deadline is not met by the General Contractor. No time extensions will be granted for Rain and Mud days since this project is Mainly Interior Renovations, and the Contractor's Staging Areas are already a paved surface.

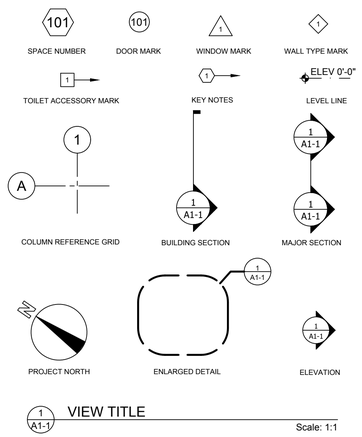
Phase 4
To begin 14 Days after Substantial Completion of Phase 3, and To be Substantial Complete within 120 Consecutive Calendar Days, after commencement of work, on Phase 4. Liquidated Damages in the sum of $200 a day (Consecutive Calendar Days) will be due the Owner, If Substantial Completion deadline is not met by the General Contractor. No time extensions will be granted for Rain and Mud days since this project is Mainly Interior Renovations, and the Contractor's Staging Areas are already a paved surface.

SMITH DESIGN GROUP, INC. | 206 W HARALSON STREET, LAGRANGE, GA 30240 | 706.882.5511 | WWW.SDGARCH.NET

ABBREVIATIONS:

@	At
A.B.	Anchor Bolt
A.C.	Air Conditioner
ACOUST.	Acoustical
ALUM.	Aluminum
ARCH.	Architectural
A.T.	Acoustical Tile
B.C.	Bottom of Curb
BLK.	Block
BOTT.	Bottom
CER.	Ceramic
CHM.	Custom Hollow Metal
C.I.	Curb Inlet
	Centerline
CLO.	Closet
CMU.	Concrete Masonry Unit
C.O.	Clean Out
COL.	Column
CONC.	Concrete
CONST.	Construction
CONT.	Continuous
C.T.	Ceramic Tile
CHR.	Coat & Hat Rack
C.J.	Control Joint
D: DIAM.	Diameter
DF	Drink Fountain
DI	Drain Inlet
DN	Down
DRIV.	Driver
DS	Downspout
DWGS.	Drawings
DWLS.	Dowels
DR	Drawer
E.J.; EXP. JT.	Expansion Joint
EL.; ELEV	Elevation
EQ	Equal
EQUIP.	Equipment
E.F.I.S.	Exterior Finish Insulation System
F.E.	Fire Extinguisher
F.H.	Fire Hose
FES	Fire Extinguisher Sign
FIN.	Finish
FLEX.	Flexible
FLR.	Floor
FT.	Foot
FTG.	Footing
GA	Gauge
G.C.	General Contractor
GYP. BRD.	Gypsum Wallboard
H	Height
HC	Handicapped
HCM	Hollow Concrete Masonry
HORIZ.	Horizontal
HW	Hand Wash
I.D.	Inside Diameter
IND.	Industrial
INV.	Invert
JAN.	Janitor
J.B.	Joist Bearing
JST.	Joist
J.T.	Joist
LAV.	Lavatory
LLV.	Long Leg Vertical
MAS.; MSRY	Masonry
MCS	Modular Cabinet System
MECH.	Mechanical
MIN.	Minimum
N	North
NA	Not Applicable
N.I.C.	Not In Contract
NTS	Not to Scale
O.C.	On Center
OPP.	Opposite
PL	Plate
PT	Pressure Treated
PEJ	Premolded Expansion
PLAST	Plaster
PSF	Pounds Per Square Foot
PSI	Pounds Per Square Inch
R	Radius
REF	Refrigerator
REQ'D	Required
RL	Roof Level
RM	Room
RT	Resilient Tile
RW	Regular Weight
	Round
SQ.	Square
SIM	Similar
SLV	Short Leg Vertical
S.M.	Sheet Metal
STL	Steel
STO.; STOR	Storage
STRUCT.	Structural
SH	Shelves
TC	Teacher Cabinet
T.C.	Top of Curb
TD	Turn Down
TFF	Top of Finished Floor
TFS	Top of Finished Slab
T & G	Tongue and Groove
T.M.	Transitional Material
TP	Top of Pavement
T/S	Top of Steel
TYP.	Typical
U.N.O.	Unless Noted Otherwise
V.C.J.	Veneer Control Joint
VERT.	Vertical
VRS	Varies
VWC	Vinyl Wall Covering
W	Width
W/	With
W.C.	Water Cooler
WD	Wood
WWF	Welded Wire Fabric

INDEX OF SYMBOLS:



CONSTRUCTION MATERIALS:

PLAN / SECTION

- face brick
- hollow concrete masonry
- gypsum wallboard
- ceramic/quarry tile
- acoustical tile
- resilient flooring
- carpet
- steel/iron
- aluminum
- small scale metal
- rough lumber
- large scale finish lumber
- small scale finish lumber
- large scale plywood
- small scale plywood
- batt/blanket insulation
- laminated plastic

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ARCHITECT'S STAMP

STATE OF GEORGIA · GORDON M. SMITH, JR. · 7575 · LaGrange, Georgia · REGISTERED ARCHITECT

SIGNATURE REQUIRED

SMITH DESIGN GROUP, INC.

206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240

706-882-5511 www.SDGarch.net

REVISIONS

	DATE	DESCRIPTION

PROJECT:

RENOVATIONS TO LAGRANGE POLICE DEPT

100 W HARALSON ST
LAGRANGE, GEORGIA

TITLE:

INDEX OF SHEETS

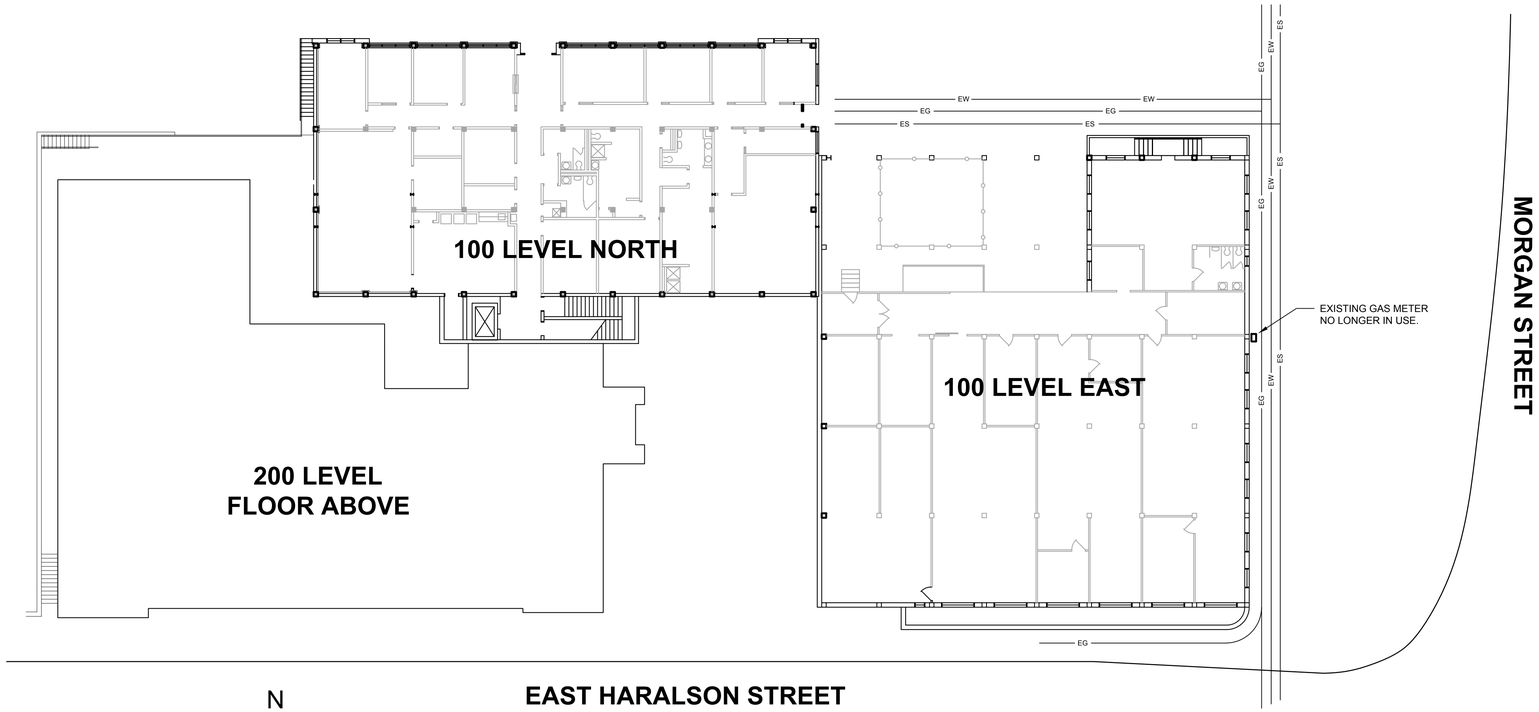
ABBREVIATIONS
LEGENDS

MODIFIED DATE:

JOB NO: 1911

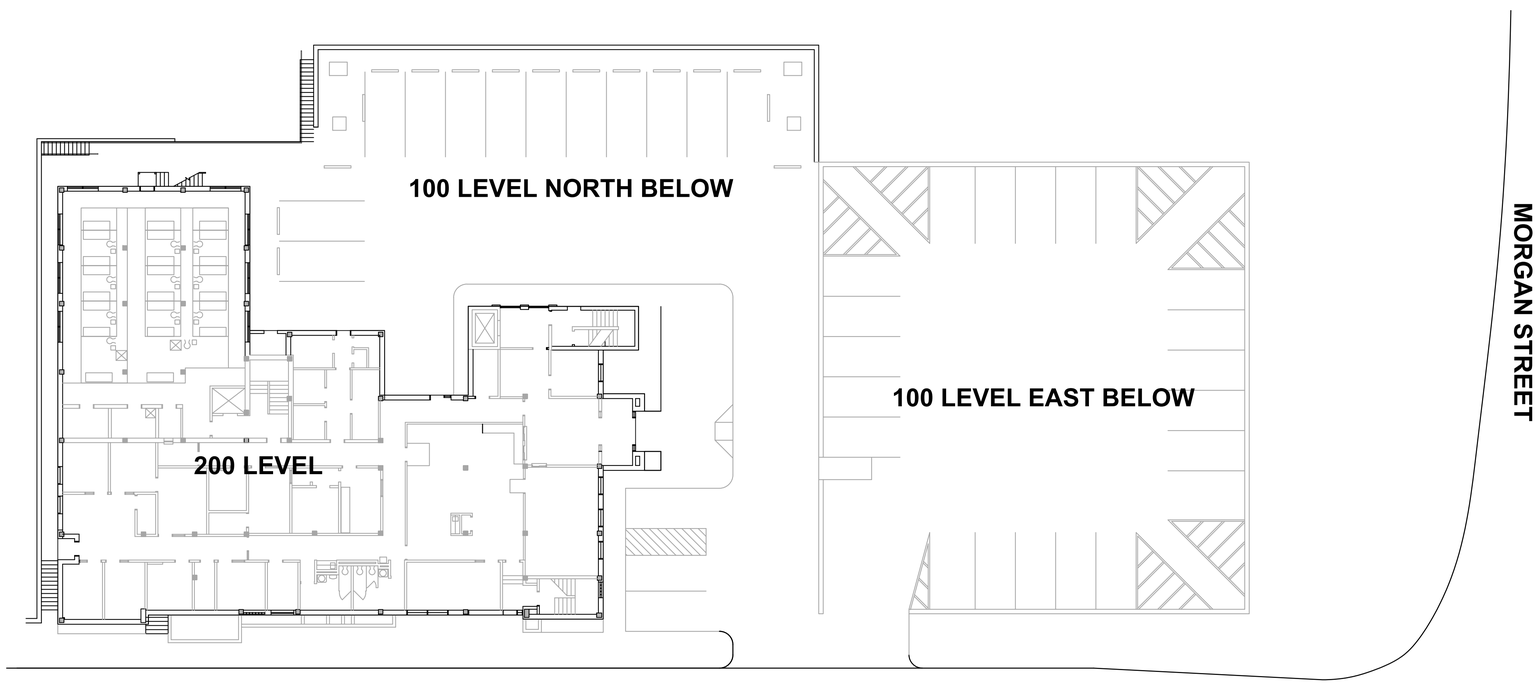
ISSUED DATE:
FOR BID AND PERMIT
12 AUG 2019

SHEET: GE-2



1 GE-3 100 LEVEL - EXISTING

Scale: 1/16" = 1'-0"



2 GE-3 200 LEVEL - EXISTING

Scale: 1/16" = 1'-0"

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STATE OF GEORGIA
GORDON M. SMITH, JR.
7575
LaGrange, Georgia
REGISTERED ARCHITECT

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LEGEND

EW	EXISTING WATER
EG	EXISTING GAS
ES	EXISTING SANITARY SEWER

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OVERALL PLANS

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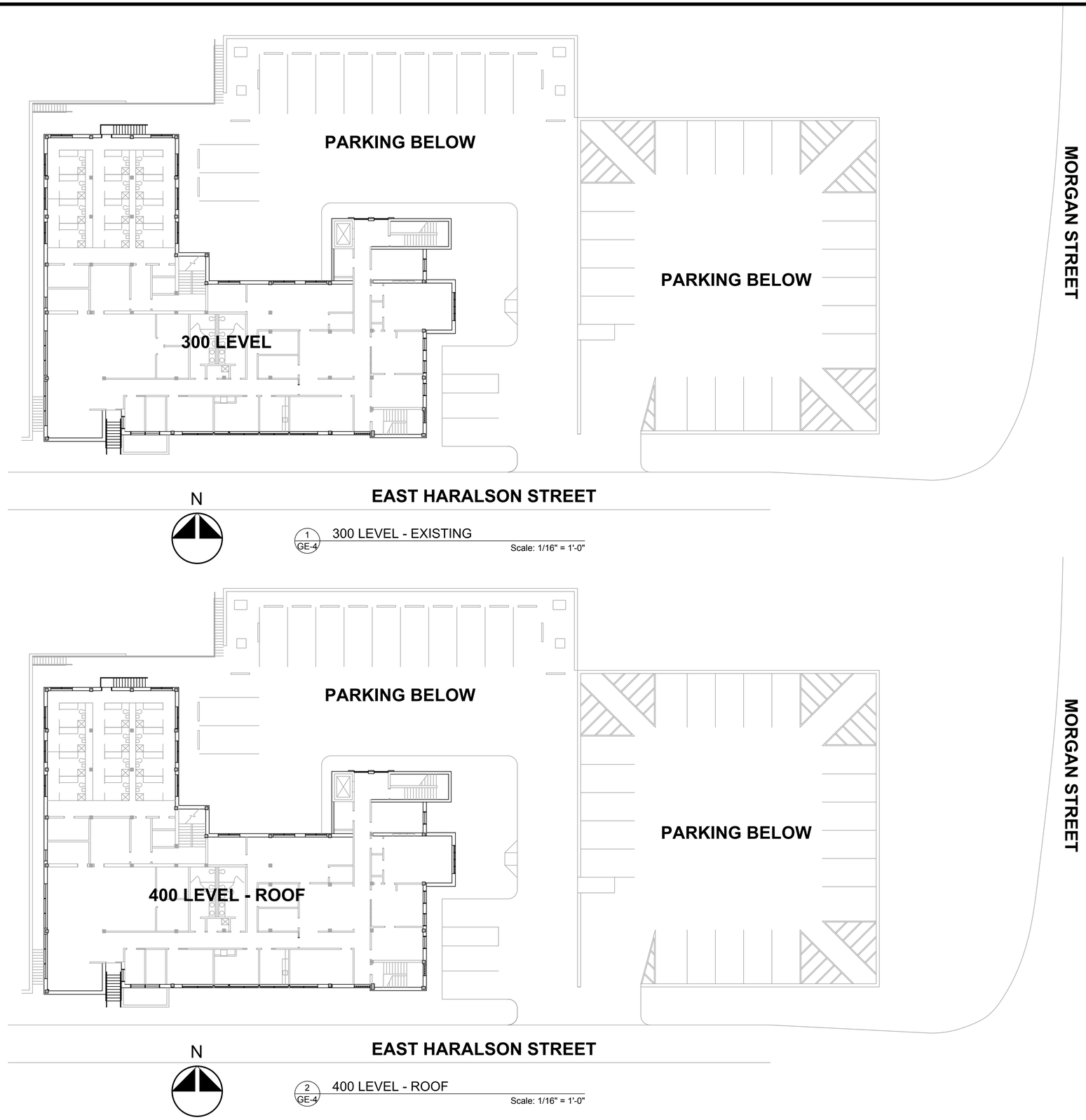
SHEET:
GE-3



1 GE-4 300 LEVEL - EXISTING

Scale: 1/16" = 1'-0"

2 GE-4 400 LEVEL - ROOF

Scale: 1/16" = 1'-0"

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GORDON M. SMITH, JR.
7575
LaGrange, Georgia
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SHEET:
GE-4

LEVEL 100 FIRE AREA SUMMARY

BUSINESS =	7,719 S.F. OF FIRE AREA 77 PERSONS
STORAGE =	1,387 S.F. OF FIRE AREA 4 PERSONS
WELLNESS =	1,162 S.F. OF FIRE AREA 77 PERSONS
STORAGE =	6,580 S.F. OF FIRE AREA 21 PERSONS

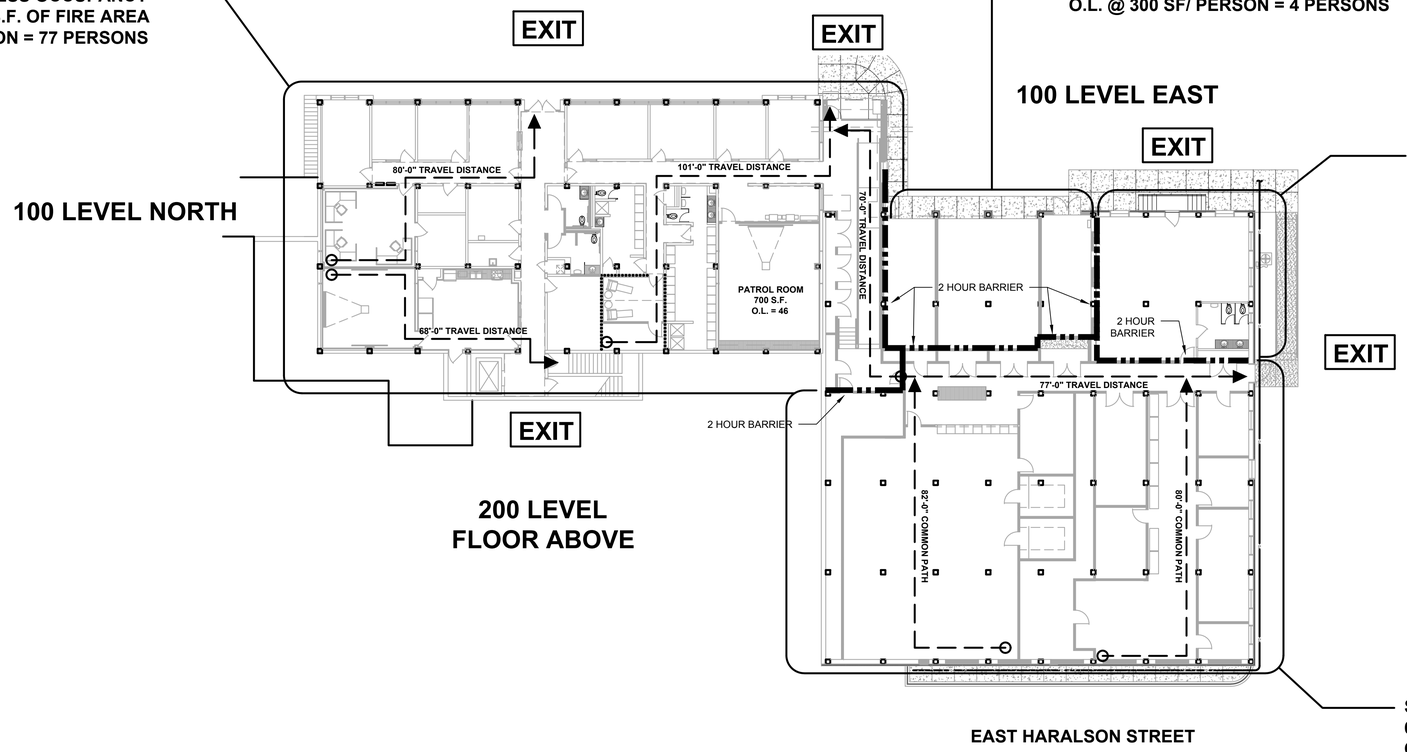
MAXIMUM OCCUPANCY = 179 PERSONS

BUSINESS OCCUPANCY
7,719 S.F. OF FIRE AREA
O.L. @ 100 SF/ PERSON = 77 PERSONS

S-1 STORAGE OCCUPANCY
1,387 S.F. OF FIRE AREA
O.L. @ 300 SF/ PERSON = 4 PERSONS

GYM / WELLNESS CENTER
1,162 S.F. OF FIRE AREA
O.L. @ 15 SF/ PERSON = 77 PERSONS

S-1 STORAGE OCCUPANCY
6,580 S.F. OF FIRE AREA
O.L. @ 300 SF/ PERSON = 21 PERSONS



N

1 GE-5 100 LEVEL - LIFE SAFETY PLAN
Scale: 1/16" = 1'-0"

GRAPHIC SCALE
0' 4' 8' 16' 32'

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LEGEND OF WALLS

2 HOUR FIRE RATED BARRIER
SEAL TIGHT TO DECK AND SEAL ALL PENETRATIONS. PROVIDE FIRE DAMPER IN ALL DUCTWORK PENETRATING 2 HOUR WALL.

REVISIONS

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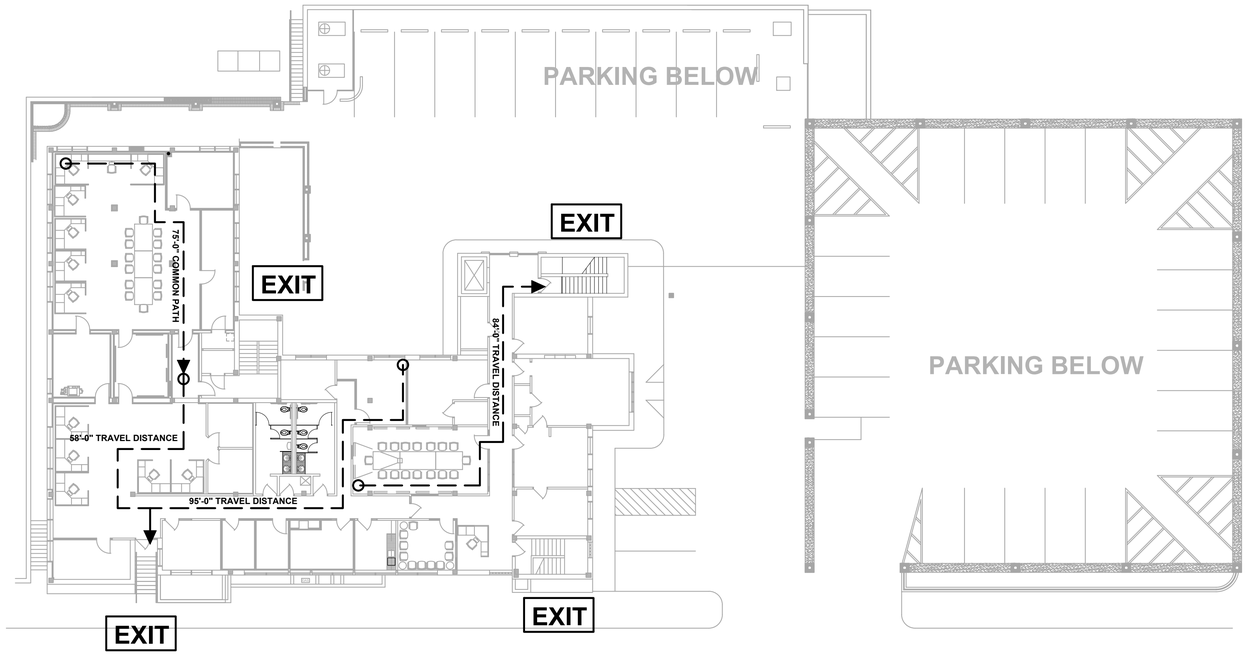
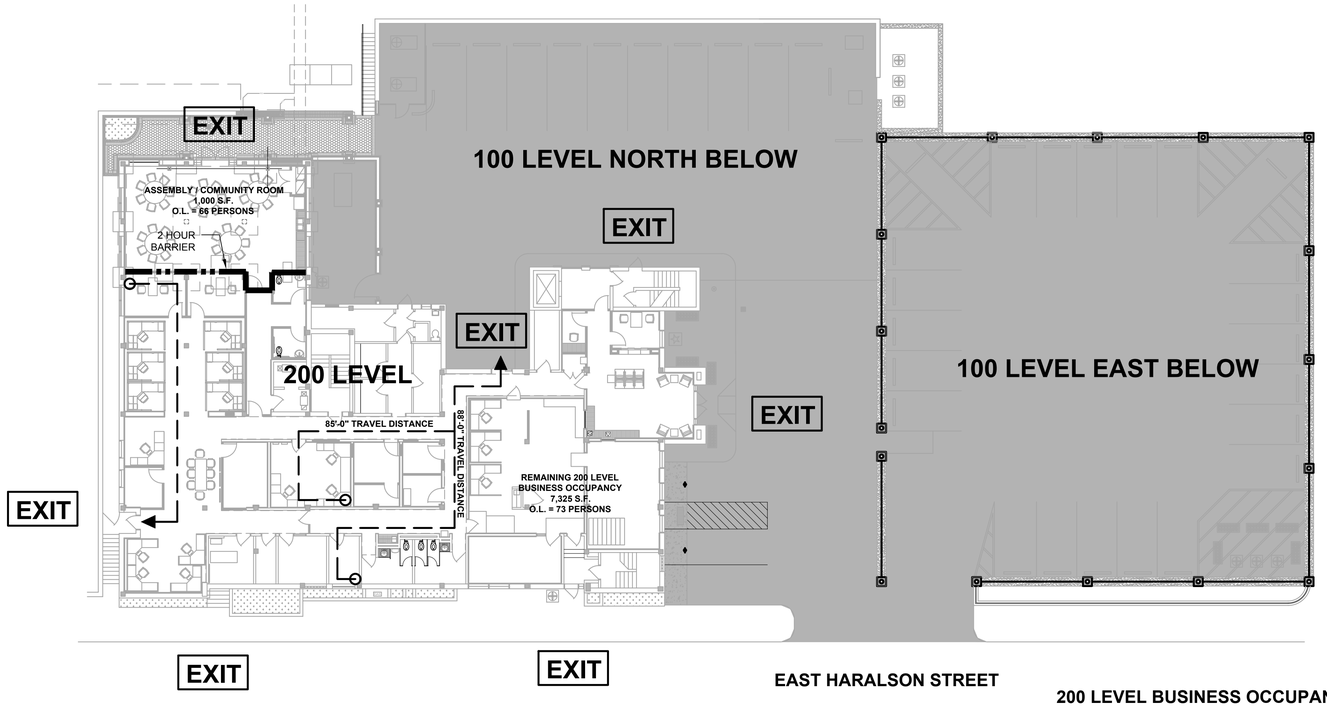


EAST HARALSON STREET

300 LEVEL BUSINESS OCCUPANCY
9,030 S.F. OF FIRE AREA
O.L. @ 100 SF/ PERSON = 90 PERSONS

1 GE-6 300 LEVEL - LIFE SAFETY PLAN

Scale: 1/16" = 1'-0"



MORGAN STREET

EAST HARALSON STREET

200 LEVEL BUSINESS OCCUPANCY
9,400 S.F. OF FIRE AREA
O.L. @ 100 SF/ PERSON = 94 PERSONS

2 GE-6 200 LEVEL - LIFE SAFETY PLAN

Scale: 1/16" = 1'-0"

LEVEL 200 - 300 FIRE AREA SUMMARY

LEVEL 300 = 9030 S.F. OF FIRE AREA
90 PERSONS

LEVEL 200 = 9,400 S.F. OF FIRE AREA
94 PERSONS

MAXIMUM OCCUPANCY = 184 PERSONS

TOTAL OCCUPANT LOAD FOR ENTIRE FACILITY = 363 PERSONS

GRAPHIC SCALE
0' 4' 8' 16' 32'

N

ARCHITECT'S STAMP
STATE OF GEORGIA
GORDON M. SMITH, JR.
7575
LAGRANGE, GEORGIA
REGISTERED ARCHITECT
SIGNATURE REQUIRED

SMITH DESIGN GROUP, INC.
206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
706-882-5511 www.SDGarch.net

LEGEND OF WALLS

2 HOUR FIRE RATED BARRIER
SEAL TIGHT TO DECK AND SEAL ALL PENETRATIONS. PROVIDE FIRE DAMPER IN ALL DUCTWORK PENETRATING 2 HOUR WALL.

REVISIONS

	DATE	DESCRIPTION

PROJECT:
RENOVATIONS TO LAGRANGE POLICE DEPT
100 W HARALSON ST
LAGRANGE, GEORGIA

TITLE:
LIFE SAFETY PLANS

MODIFIED DATE:

ISSUED DATE:
FOR BID AND PERMIT
12 AUG 2019

JOB NO: 1911

SHEET: GE-6

GENERAL NOTES

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL DRAWINGS AND FOR NOTING ANY DISCREPANCIES BETWEEN DRAWINGS, PLANS, DETAILS, TRADES, ETC. PRIOR TO THE CONSTRUCTION COMMENCEMENT.

2. THE 2007 VERSION OF THE "GENERAL CONDITIONS" OF THE AMERICAN INSTITUTE OF ARCHITECTS IS A PART OF THESE CONTRACT DOCUMENTS.

3. ALL EXTERIOR DIMENSIONS ARE TAKEN FROM BACK OF CURB UNLESS OTHERWISE NOTED.

4. PATCH AND REPAIR ALL EXISTING FINISHES AFFECTED BY DEMOLITION. NEW WORK PATCH AND REPAIR WORK SHALL MATCH EXISTING FINISHES FOR TEXTURE, COLOR AND MATERIAL.

5. REVISE AND / OR PROVIDE EXIT SIGNAGE AND LIGHTING AS REQUIRED BY ALL CODES.

6. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND REQUIRED DIMENSIONS AS THEY RELATE TO THE INTENT OF THE NEW CONSTRUCTION. THIS VERIFICATION WORK MUST BE COMPLETED PRIOR TO THE START OF CONSTRUCTION, AND ANY DISCREPANCIES FOUND BETWEEN THE EXISTING WORK AND THE DRAWINGS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO WORK COMMENCING.

7. CONTRACTOR SHALL COORDINATE ALL TRADE REQUIREMENTS AND REPORT CONFLICTS IMMEDIATELY IF FOUND. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONAL DATA AND LOCATIONS OF ALL OPENINGS, EQUIPMENT, AND OWNER FURNISHED EQUIPMENT.

8. DISCONNECT ANY ELECTRICAL, GAS, WATER OR OTHER LINES SERVICING THE EQUIPMENT PER RULES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION PRIOR TO BEGINNING WORK.

9. CONTRACTOR SHALL VERIFY WITH OWNER ALL EXISTING EQUIPMENT AND FURNISHINGS TO BE REMOVED, REPLACED, OR RELOCATED. CONTRACTOR SHALL PROVIDE AS REQUIRED, ALL PLUMBING, HVAC, AND ELECTRICAL NECESSARY FOR PROPER INSTALLATION OF NEW OR RELOCATED EQUIPMENT.

10. REPAIR ALL FLOOR FINISHES LEFT VOID OR DAMAGED BY DEMOLITION WORK AND MATCH EXISTING ADJACENT FINISH.

11. REPAIR EXISTING CONSTRUCTION (AS REQUIRED) TO MATCH ADJACENT CONSTRUCTION IN QUANTITY, SIZE, TEXTURE, AND FINISH, WHERE DAMAGED BY DEMOLITION WORK.

12. PROTECT EXISTING BUILDING DURING CONSTRUCTION. CONTRACTOR SHALL TAKE PROPER AND NECESSARY PRECAUTIONS TO PROTECT EXISTING BUILDING FROM TEMPERATURE AND HUMIDITY EXTREMES, DUST AND WATER PENETRATIONS. CONSTRUCT TEMPORARY WEATHER TIGHT ENCLOSURES. REPAIR ALL WATER DAMAGED ITEMS AT NO ADDITIONAL EXPENSE TO OWNER.

13. COORDINATE CONSTRUCTION OPERATIONS WITH OWNER WHERE THEY AFFECT EXISTING WORK AREAS AND NORMAL OPERATING PROCEDURES.

14. PHASE NEW DEMOLITION WORK WITH NEW CONSTRUCTION TO PROVIDE OWNER WITH ADEQUATE FACILITIES FOR TEMPORARY OPERATIONS AT ALL TIMES. COORDINATE WITH OWNER AND ALL TRADES.

15. DEMOLITION OF ANY EXISTING CONSTRUCTION REQUIRED BY ANY TRADE TO PROPERLY COMPLETE THEIR WORK SHALL BE ACCOMPLISHED AS PART OF THEIR WORK AND SHALL BE COVERED BY THE PRIME CONTRACT.

16. WHERE REMOVAL OF ANY ITEM IS CALLED FOR, IT SHALL BECOME THE PROPERTY OF THE BUILDING. THE CONTRACTOR IS TO CONTACT THE OWNER AND DETERMINE IF THE ITEM IS TO BE SALVAGED OR DELIVERED TO A LOCATION IN THE BUILDING AS DIRECTED BY OWNER, OR TO BE DISPOSED OF OFF SITE.

17. WHERE AN ITEM IS CALLED OUT TO BE RELOCATED, THE CONTRACTOR SHALL REMOVE IT UNDAMAGED AND REINSTALL IT IN ITS NEW LOCATION, INCLUDING ANY REQUIRED SUPPORTS, UTILITIES AND REFINISHINGS.

18. WHERE ANY ITEM IS CALLED OUT TO BE SALVAGED, IT SHALL BE DELIVERED TO THE OWNER AT A DESIGNATED PLACE UNLESS IT IS ALSO CALLED OUT TO BE RELOCATED IN WHICH CASE, THE ITEM SHALL BE REMOVED, REFURBISHED AND REINSTALLED IN THE WORK.

19. WHERE EXISTING WALLS ARE TO BE REMOVED, THE ENTIRE ASSEMBLY SHALL BE REMOVED FROM CORNER TO CORNER COMPLETE, INCLUDING DOORS, WINDOWS, AND ALL ELECTRICAL AND MECHANICAL ITEMS INCLUDED IN THE ASSEMBLY.

20. WHERE CEILING ASSEMBLIES ARE CALLED OUT TO BE REMOVED, THE ENTIRE ASSEMBLY SHALL BE REMOVED, INCLUDING ALL HANGERS, FASTENERS, LIGHTS, AND MECHANICAL ITEMS.

21. WHERE WATER AND WASTE LINES ARE TO BE ABANDONED, THEY SHALL BE REMOVED AND CAPPED TO A POINT WHERE THEY WILL NOT BE VISIBLE WHEN NEW CONSTRUCTION IS FINISHED.

22. WHERE ELECTRICAL CIRCUITS ARE TO BE ABANDONED, THE CONDUIT SHALL BE REMOVED TO A POINT BEHIND THE SURFACE OF REMAINING OR NEW CONSTRUCTION AND CAPPED. THE WIRE SHALL BE REMOVED BACK TO THE PANEL AND THE BREAKER REPLACED WITH A SPARE BLANK.

23. ALL SURFACES RECEIVING WORK SHALL BE COMPLETED AND PROPERLY PREPARED TO RECEIVE THE FINISH MATERIAL SCHEDULED OR OTHERWISE CALLED FOR ON THE PLANS.

24. PATCH AND REPAIR CONCRETE FLOOR SURFACES WHERE EXISTING HOLES, SPALLING, AND CRACKS OCCUR IN AREAS OF THE BUILDING WHERE REMODEL WORK IS CALLED FOR AND WHERE DAMAGE FROM DEMOLITION OR NEW CONSTRUCTION OCCURS. ALL TO PROVIDE A FLUSH, SMOOTH AND CLEAN SURFACE.

25. PATCH AND REPAIR ALL SURFACES WHERE EXISTING HOLES, SPALLING, AND CRACKS OCCUR, WHERE DAMAGED OR DETRIORATED WALLS ARE REMOVED AND WHERE DAMAGE FROM DEMOLITION OR NEW CONSTRUCTION OCCURS, IN AREAS OF EXISTING BUILDING WHERE REMODELED WORK IS CALLED FOR. THE PATCHED AND REPAIRED SURFACE SHALL MATCH THE ADJACENT SURFACE IN MATERIAL, LINE AND TEXTURE.

26. PATCH AND REPAIR ALL SURFACES WHERE HOLES OR SLOTS FROM ANCHORING DEVICES OCCURED AFTER FINISH MATERIAL OR OTHER CONSTRUCTION HAS BEEN REMOVED. THE PATCH AND REPAIRED SURFACE SHALL MATCH THE ADJACENT SURFACE IN MATERIAL, LINE AND TEXTURE.

27. FILL OPENING AND PATCH AND REPAIR MATERIAL TO MATCH ADJACENT SURFACES WHERE MATERIALS ARE REMOVED BY ANY TRADE TO PREFORM THEIR WORK.

28. FILL ALL HOLES IN FLOORS, WALLS (INTERIOR AND EXTERIOR) AND CEILING TO MATCH ADJACENT SURFACES IN MATERIALS, LINE AND TEXTURE WHERE MECHANICAL, PLUMBING, OR ELECTRICAL ITEMS ARE REMOVED.

29. PATCH AND REAIR EXISTING WALLS TO MATCH ADJACENT SURFACES WHERE PORTIONS OF WALL WERE REMOVED FOR INSTALLATION OF NEW DOORS.

30. WHERE EXISTING PLUMBING OR ELECTRICAL LINES ARE TO REMAIN IN SERVICE BUT ARE LOCATED IN CONSTRUCTION TO BE REMOVED, SUCH LINES SHALL BE RELOCATED OR REDIRECTED AS NECESSARY TO REMAIN IN SERVICE.

Current Mandatory Codes as Adopted by DCA:

International Building Code
2012 Edition, with Georgia Amendments (2014) (2015) (2017)(2018)

International Residential Code
2012 Edition, with Georgia Amendments (2014) (2015)(2018)

International Fire Code
2012 Edition, with Georgia Amendments (2014)

International Plumbing Code
2012 Edition, with Georgia Amendments (2014) (2015)

International Mechanical Code
2012 Edition, with Georgia Amendments (2014) (2015)

International Fuel Gas Code
2012 Edition, with Georgia Amendments (2014) (2015)

National Electrical Code
2017 Edition (No Georgia Amendments)

International Energy Conservation Code
2009 Edition, with Georgia Supplements and Amendments (2011) (2012)

International Swimming Pool and Spa Code
2012 Edition, with Georgia Amendments (2014)

For information and questions regarding the Life Safety Code (NFPA 101) or the Georgia Accessibility Code please contact the State Fire Marshal's Office.

LEGEND OF CONSTRUCTION MATERIALS

PLAN / SECTION

- face brick
- hollow concrete masonry
- gypsum wallboard
- ceramic/quarry tile
- acoustical tile
- resilient flooring
- carpet
- steel/iron
- aluminum
- small scale metal
- rough lumber
- large scale finish lumber
- small scale finish lumber
- large scale plywood
- small scale plywood
- batt/blanket insulation
- laminated plastic

CODE SUMMARY AND PROJECT DATA

PROJECT NAME	ENHANCEMENTS TO LAGRANGE POLICE DEPARTMENT
PROJECT DESCRIPTION	RENOVATIONS AND ADDITIONS
OWNER	CITY OF LAGRANGE
CONTACT	
PROPOSED USE	BUSINESS
ARCHITECT OF RECORD	SMITH DESIGN GROUP, INC.
OCCUPANCY	BUSINESS
OCCUPANT LOAD	N/A
HAZARD	ORDINARY
MIXED OCCUPANCY	NO
CONSTRUCTION TYPE	TYPE TWO (II)B
SPRINKLERED	NO
STANDPIPE	NO
FIRE DISTRICT	NO
NUMBER OF STORYS	THREE (3)
HEIGHT ALLOWED	N/A
BUILDING HEIGHT	29'-0"
MEZZANINE	NO
HIGH RISE	NO
GROSS BUILDING AREA ALLOWED	
TOAL GROSS AREA HEATED	N/A
AREA SEPARATION PROVIDED	N/A
VERTICAL SHAFTS	N/A
EMERGENCY LIGHTING AND EXIT SIGNS	YES
FIRE ALARM AND SMOKE DETECTOR SYSTEM	NO
PANIC HARDWARE	NO
COMMON PATH OF TRAVEL ALLOWED	20' MAX
DEAD END LIMIT	20' MAX.
TRAVEL DISTANCE TO EXIT ALLOWED	200' WHEN SPRINKLED
NUMBER OF EXITS REQUIRED	NOT LESS THAN THREE (3)
PARKING SPACES REQUIRED	EXISTING

ARCHITECT'S STAMP

STATE OF GEORGIA · GORDON M. SMITH, JR. · 7575 · LAGRANGE, GEORGIA · REGISTERED ARCHITECT

SIGNATURE REQUIRED

SMITH DESIGN GROUP, INC.

206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240

706-882-5511 www.SDGarch.net

REVISIONS

	DATE	DESCRIPTION

PROJECT:

RENOVATIONS TO LAGRANGE POLICE DEPT

100 W HARALSON ST
LAGRANGE, GEORGIA

TITLE:

GENERAL NOTES

MODIFIED DATE:

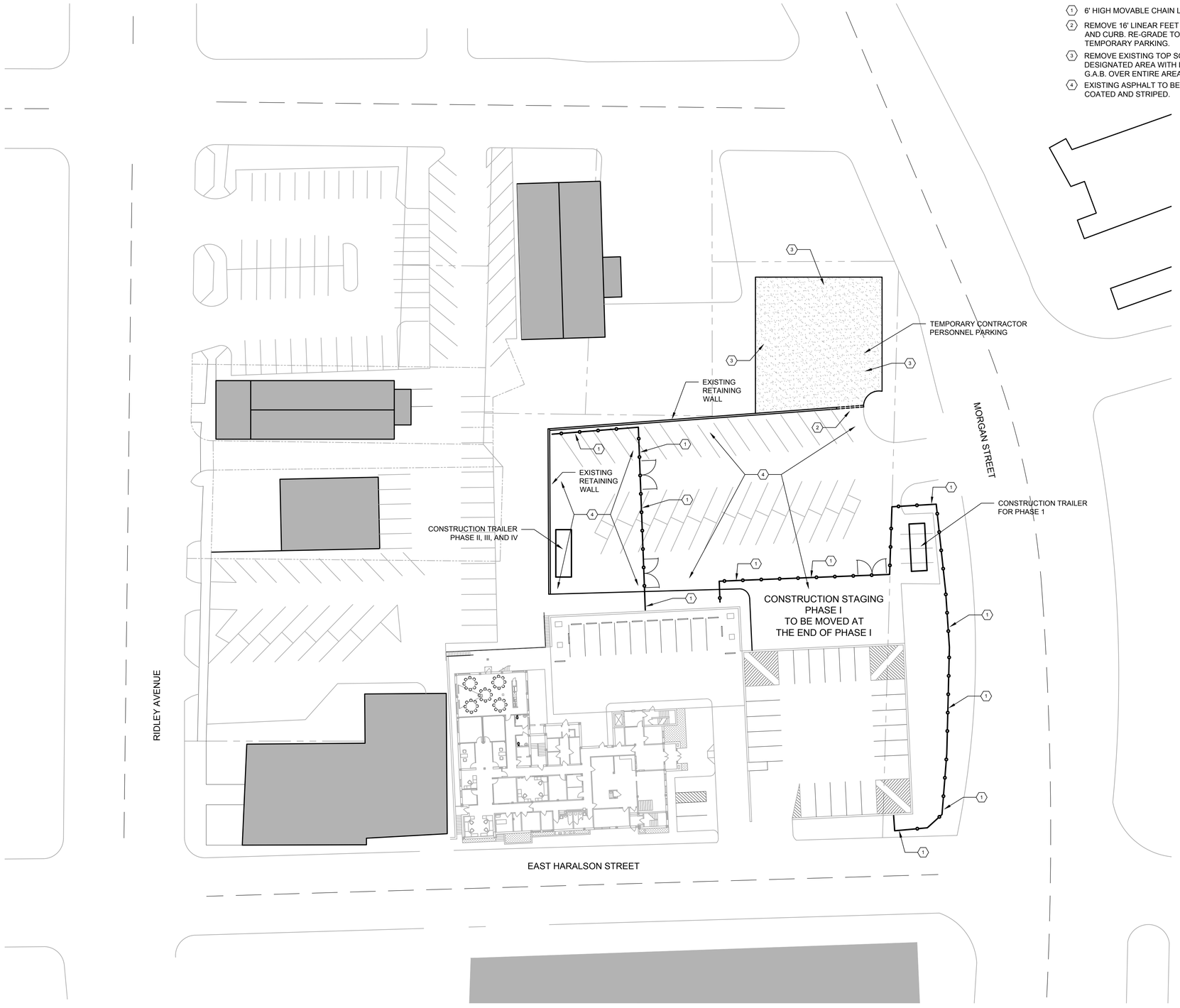
ISSUED DATE:
FOR BID AND PERMIT
12 AUG 2019

JOB NO:
1911

SHEET:
GE-7

KEYNOTES

1. 6' HIGH MOVABLE CHAIN LINK FENCE WITH WIND SCREEN
2. REMOVE 16' LINEAR FEET OF EXISTING 3'-0" HIGH RETAINING WALL AND CURB. RE-GRADE TO CREATE TEMPORARY DRIVEWAY TO TEMPORARY PARKING.
3. REMOVE EXISTING TOP SOIL AND STOCKPILE. PROOF ROLL DESIGNATED AREA WITH LOADED DUMPTRUCK. INSTALL 6" DEEP G.A.B. OVER ENTIRE AREA OF TEMPORARY PARKING.
4. EXISTING ASPHALT TO BE CLEANED AT END OF PROJECT AND SEAL COATED AND STRIPED.



1 GE-8

SITE PLAN - CONSTRUCTION STAGING

SCALE: 1" = 30'-0"

NOTE:
THESE DRAWINGS ARE FOR REPRESENTATION ONLY.
ACTUAL DESIGN WILL VARY.

ARCHITECT'S STAMP

STATE OF GEORGIA · GORDON M. SMITH, JR. · 7575 · LAGRANGE, GEORGIA · REGISTERED ARCHITECT

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REVISIONS

	DATE	DESCRIPTION

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RENOVATIONS TO
LAGRANGE POLICE DEPT

100 W HARALSON ST
LAGRANGE, GEORGIA

TITLE:

SITE PLAN
CONSTRUCTION STAGING

MODIFIED DATE:

ISSUED DATE:
FOR BID AND PERMIT
12 AUG 2019

JOB NO:
1911

SHEET:
GE-8

ADDITIVE ALTERNATIVES

BASE BID - ALL WORK IN PHASE ONE

ADDITIVE ALTERNATIVE NO.1
IN SPACES 128 AND 129 INSTALL NEW PORCELAIN TILE FLOORS AND NEW PORCELAIN TILE (FULL HEIGHTS) ON ALL WALLS, PROVIDE NEW PLUMBING FIXTURES, NEW CEILING, NEW LIGHTS AND NEW VANITY PER DETAIL 4/A7-1.

ADDITIVE ALTERNATIVE NO.2- ALL WORK IN PHASE II (2)

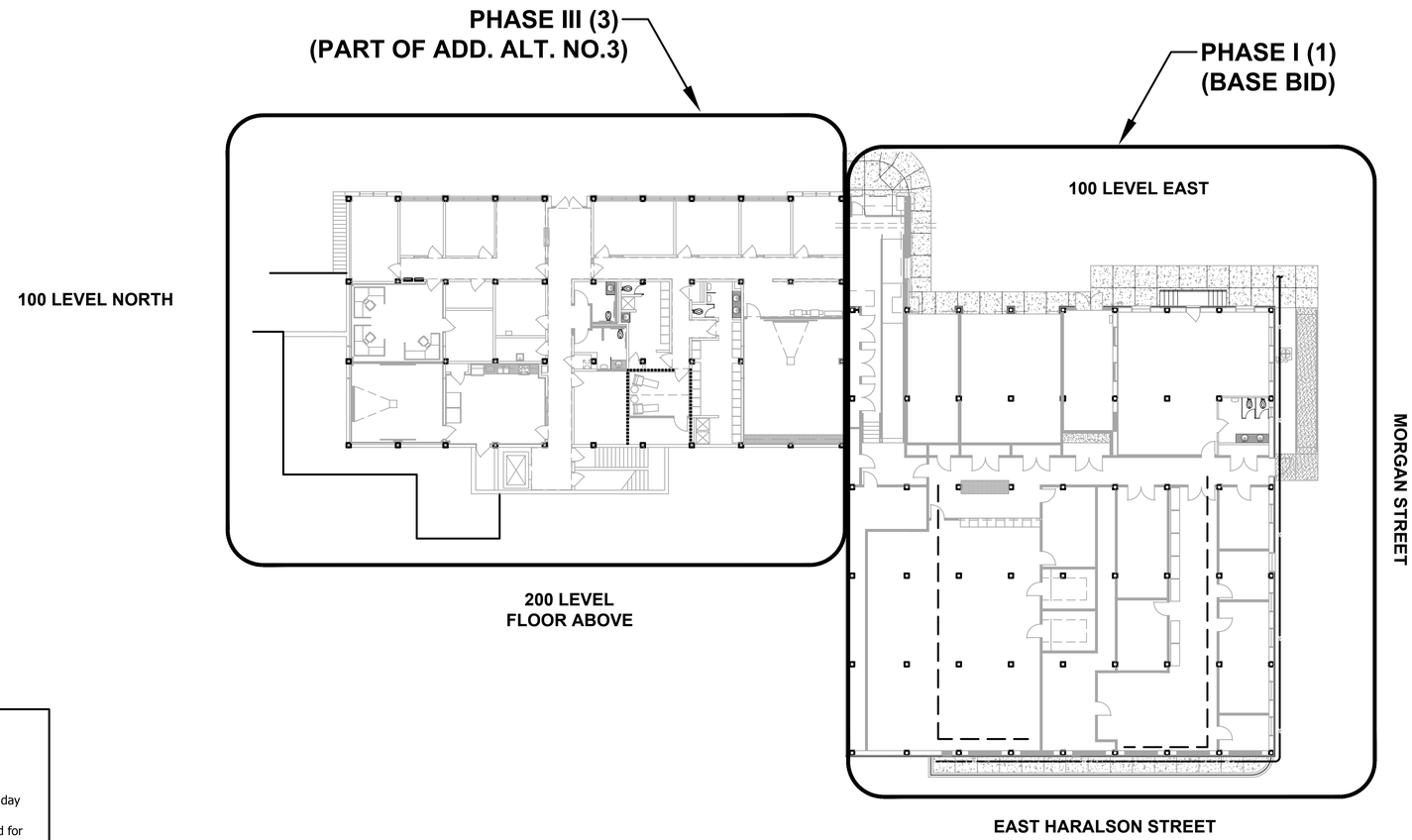
ADDITIVE ALTERNATIVE NO.3- ALL WORK IN PHASE III (3)

ADDITIVE ALTERNATIVE NO.4- ALL WORK IN PHASE IV (4)

ADDITIVE ALTERNATIVE NO.5
TO REMOVE ALL EXISTING DATA CABLING ON THE 100 LEVEL, IN ITS ENTIRETY FROM THE SITE. INSTALL NEW CAT 7 CABLING FROM ALL NEW AND EXISTING DATA DROPS, HOMERUN EACH DROP TO SPACE 108. MAKE TERMINATIONS AT WALL LOCATIONS, LEAVE SIX (6) FEET OF SLACK IN SPACE 108 FOR OWNER TO TERMINATE. COORDINATE TO TEST AND LABEL ALL DROPS.

ADDITIVE ALTERNATIVE NO.6
TO REMOVE ALL EXISTING DATA CABLING ON THE 200 LEVEL, IN ITS ENTIRETY FROM THE SITE. INSTALL NEW CAT 7 CABLING FROM ALL NEW AND EXISTING DATA DROPS, HOMERUN EACH DROP TO SPACE 225. MAKE TERMINATIONS AT WALL LOCATIONS, LEAVE SIX (6) FEET OF SLACK IN SPACE 225 FOR OWNER TO TERMINATE. COORDINATE TO TEST AND LABEL ALL DROPS.

ADDITIVE ALTERNATIVE NO.7
TO REMOVE ALL EXISTING DATA CABLING ON THE 300 LEVEL, IN ITS ENTIRETY FROM THE SITE. INSTALL NEW CAT 7 CABLING FROM ALL NEW AND EXISTING DATA DROPS, HOMERUN EACH DROP TO SPACE 338. MAKE TERMINATIONS AT WALL LOCATIONS, LEAVE SIX (6) FEET OF SLACK IN SPACE 338 FOR OWNER TO TERMINATE. COORDINATE TO TEST AND LABEL ALL DROPS.



N

1 GE-9 100 LEVEL - PHASING
Scale: 1/16" = 1'-0"

GRAPHIC SCALE
0' 4' 8' 16' 32'

Phasing and Liquidated Damages

Phase 1
To be Substantial Complete within 190 Consecutive Calendar Days, after commencement of work , on Phase 1. Liquidated Damages in the sum of $100 a day (Consecutive Calendar Days) will be due the Owner, If Substantial Completion deadline is not met by the General Contractor. No time extensions will be granted for Rain and Mud days since this project is Mainly Interior Renovations, and the Contractor's Staging Areas are already a paved surface.

Phase 2
To begin 14 Days after Substantial Completion of Phase 1, and To be Substantial Complete within 140 Consecutive Calendar Days, after commencement of work, on Phase 2. Liquidated Damages in the sum of $200 a day (Consecutive Calendar Days) will be due the Owner, If Substantial Completion deadline is not met by the General Contractor. No time extensions will be granted for Rain and Mud days since this project is Mainly Interior Renovations, and the Contractor's Staging Areas are already a paved surface.

Phase 3
To begin 14 Days after Substantial Completion of Phase 2, and To be Substantial Complete within 120 Consecutive Calendar Days, after commencement of work, on Phase 3. Liquidated Damages in the sum of $200 a day (Consecutive Calendar Days) will be due the Owner, If Substantial Completion deadline is not met by the General Contractor. No time extensions will be granted for Rain and Mud days since this project is Mainly Interior Renovations, and the Contractor's Staging Areas are already a paved surface.

Phase 4
To begin 14 Days after Substantial Completion of Phase 3, and To be Substantial Complete within 120 Consecutive Calendar Days, after commencement of work, on Phase 4. Liquidated Damages in the sum of $200 a day (Consecutive Calendar Days) will be due the Owner, If Substantial Completion deadline is not met by the General Contractor. No time extensions will be granted for Rain and Mud days since this project is Mainly Interior Renovations, and the Contractor's Staging Areas are already a paved surface.

ARCHITECT'S STAMP
STATE OF GEORGIA
GORDON M. SMITH, JR.
7575
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SMITH DESIGN GROUP, INC.
206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
706-882-5511 www.SDGarch.net

REVISIONS

1	DATE	DESCRIPTION

PROJECT:
RENOVATIONS TO
LAGRANGE POLICE DEPT
100 W HARALSON ST
LAGRANGE, GEORGIA

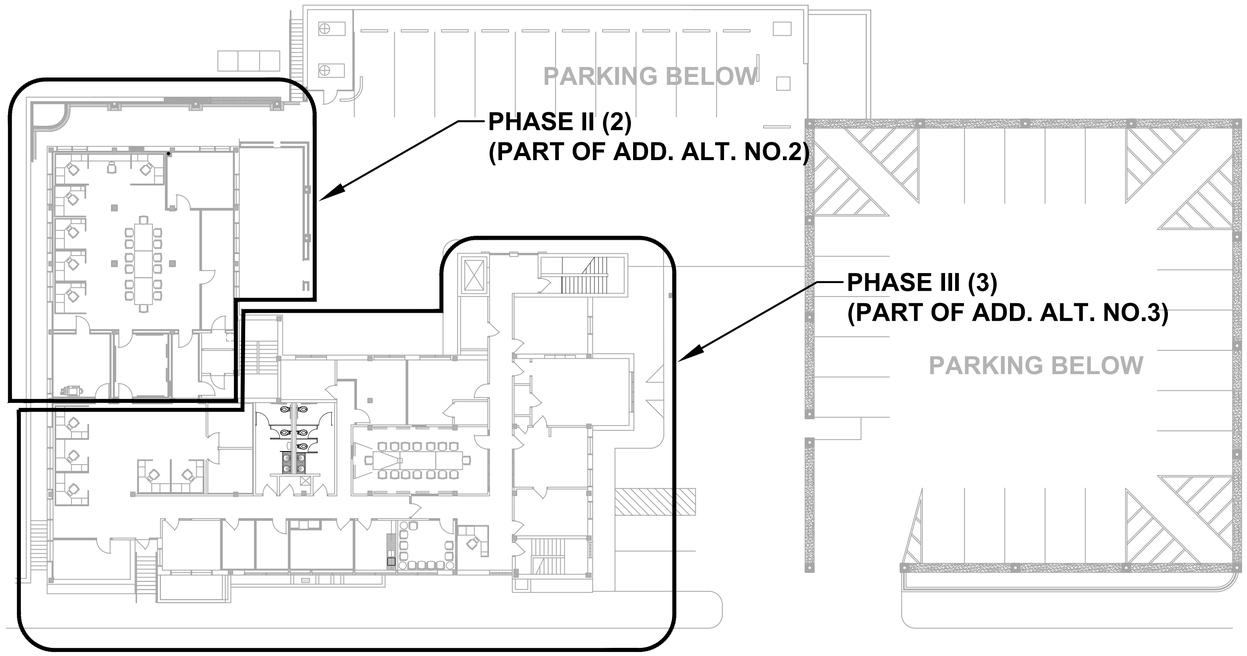
TITLE:
PHASING

MODIFIED DATE:

JOB NO: 1911

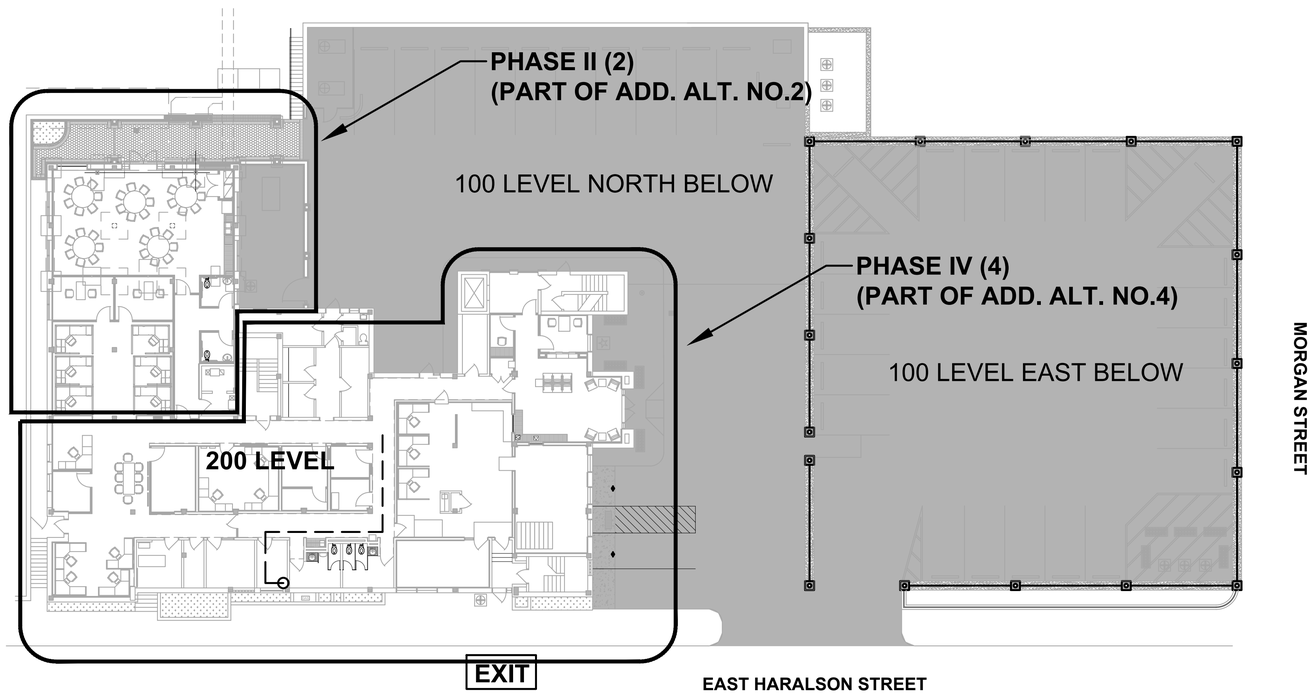
ISSUED DATE:
FOR BID AND PERMIT
12 AUG 2019

SHEET: GE-9



1 GE-10 300 LEVEL - PHASING

Scale: 1/16" = 1'-0"



2 GE-10 200 LEVEL - PHASING

Scale: 1/16" = 1'-0"

ADDITIVE ALTERNATIVES

BASE BID - ALL WORK IN PHASE ONE

ADDITIVE ALTERNATIVE NO.1
IN SPACES 128 AND 129 INSTALL NEW PORCELAIN TILE FLOORS AND NEW PORCELAIN TILE (FULL HEIGHTS) ON ALL WALLS, PROVIDE NEW PLUMBING FIXTURES, NEW CEILING, NEW LIGHTS AND NEW VANITY PER DETAIL 4/A7-1.

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ADDITIVE ALTERNATIVE NO.4- ALL WORK IN PHASE IV (4)

ADDITIVE ALTERNATIVE NO.5
TO REMOVE ALL EXISTING DATA CABLING ON THE 100 LEVEL, IN ITS ENTIRETY FROM THE SITE. INSTALL NEW CAT 7 CABLING FROM ALL NEW AND EXISTING DATA DROPS, HOMERUN EACH DROP TO SPACE 108. MAKE TERMINATIONS AT WALL LOCATIONS, LEAVE SIX (6) FEET OF SLACK IN SPACE 108 FOR OWNER TO TERMINATE. COORDINATE TO TEST AND LABEL ALL DROPS.

ADDITIVE ALTERNATIVE NO.6
TO REMOVE ALL EXISTING DATA CABLING ON THE 200 LEVEL, IN ITS ENTIRETY FROM THE SITE. INSTALL NEW CAT 7 CABLING FROM ALL NEW AND EXISTING DATA DROPS, HOMERUN EACH DROP TO SPACE 225. MAKE TERMINATIONS AT WALL LOCATIONS, LEAVE SIX (6) FEET OF SLACK IN SPACE 225 FOR OWNER TO TERMINATE. COORDINATE TO TEST AND LABEL ALL DROPS.

ADDITIVE ALTERNATIVE NO.7
TO REMOVE ALL EXISTING DATA CABLING ON THE 300 LEVEL, IN ITS ENTIRETY FROM THE SITE. INSTALL NEW CAT 7 CABLING FROM ALL NEW AND EXISTING DATA DROPS, HOMERUN EACH DROP TO SPACE 338. MAKE TERMINATIONS AT WALL LOCATIONS, LEAVE SIX (6) FEET OF SLACK IN SPACE 338 FOR OWNER TO TERMINATE. COORDINATE TO TEST AND LABEL ALL DROPS.

Phasing and Liquidated Damages

Phase 1
To be Substantial Complete within 190 Consecutive Calendar Days, after commencement of work , on Phase 1. Liquidated Damages in the sum of $100 a day (Consecutive Calendar Days) will be due the Owner, If Substantial Completion deadline is not met by the General Contractor. No time extensions will be granted for Rain and Mud days since this project is Mainly Interior Renovations, and the Contractor's Staging Areas are already a paved surface.

Phase 2
To begin 14 Days after Substantial Completion of Phase 1, and To be Substantial Complete within 140 Consecutive Calendar Days, after commencement of work, on Phase 2. Liquidated Damages in the sum of $200 a day (Consecutive Calendar Days) will be due the Owner, If Substantial Completion deadline is not met by the General Contractor. No time extensions will be granted for Rain and Mud days since this project is Mainly Interior Renovations, and the Contractor's Staging Areas are already a paved surface.

Phase 3
To begin 14 Days after Substantial Completion of Phase 2, and To be Substantial Complete within 120 Consecutive Calendar Days, after commencement of work, on Phase 3. Liquidated Damages in the sum of $200 a day (Consecutive Calendar Days) will be due the Owner, If Substantial Completion deadline is not met by the General Contractor. No time extensions will be granted for Rain and Mud days since this project is Mainly Interior Renovations, and the Contractor's Staging Areas are already a paved surface.

Phase 4
To begin 14 Days after Substantial Completion of Phase 3, and To be Substantial Complete within 120 Consecutive Calendar Days, after commencement of work, on Phase 4. Liquidated Damages in the sum of $200 a day (Consecutive Calendar Days) will be due the Owner, If Substantial Completion deadline is not met by the General Contractor. No time extensions will be granted for Rain and Mud days since this project is Mainly Interior Renovations, and the Contractor's Staging Areas are already a paved surface.

GRAPHIC SCALE
0' 4' 8' 16' 32'

N

ARCHITECT'S STAMP
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PROJECT:
RENOVATIONS TO LAGRANGE POLICE DEPT
100 W HARALSON ST
LAGRANGE, GEORGIA

TITLE:
PHASING

MODIFIED DATE:

JOB NO: 1911

ISSUED DATE:
FOR BID AND PERMIT
12 AUG 2019

SHEET: GE-10

#	Rv #	ELECTRICAL CRITERIA - GENERAL CONDITIONS	Check Off
EC-01	-	PERMITS & FEES: Secure & pay for all fees, licenses, permits, inspections. Submit Copy Of Each Permit	
EC-02	-	LICENSE(S)-BUSINESS: This Contactor Shall Be Properly Licensed Business Wise, In This Project State, In Accordance With All Applicable State Laws. Submit Copies Of Business License(s).	
EC-03	-	BONDING & INSURANCE(s): This Contactor Shall Be Properly Bonded And Insured In Accordance With The General & Supplements Requirement Of The Project Document. Submit Copies Of All Such Documents.	
EC-04	-	COORDINATION OF OTHER TRADES- This contractor is responsible for coordinating with all other trades for the proper installation of this work, maintaining required clearances, and confirming the electrical characteristics and requirement of electrical power equipment of other trades (prior to ordering equipment). Submit Copies Of All Such Documents.	
EC-05	-	MANUFACTURERS, ALTERNATES & SUBSTITUTIONS- Components & products are to be provided matching the prescribed characteristics, features, performance, types, etc. based on the Manufacturer & Series as given. NO After-"Bid" Alternates, Changes Or Substitutions Accepted Or Allowed. Prior-To-Bid Request For Acceptance Must Be Submitted To Architect & Engineer NO-LESS Than Two-Business-Weeks Prior To Bid Date. Request-For-Acceptance Must Include Complete & Marked Product Data Indicating Full Matching Compliance. Any Variations Must Be Marked & Noted. Acceptance Will Be At The Description Of The A/E Judgment.	
EC-06	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.	
EC-07	-	WARRANTY- This contractor shall warrant all materials, labor & installation for one full year from date of Substantial Completion. Any extended product warranties shall be passed onto the owner.	
- -		- - - - - -	
		End Of Electrical Criteria - General Conditions	

#	Rv #	ELECTRICAL CRITERIA - BASICS CRITERIA	Check Off
EB-01	-	GENERAL- Provide a complete electrical system, left in proper working order. Provide herein means installed completely, including labor & materials.	
EB-02	-	LICENSE(S)-ELECTRICAL: This Contactor Shall Be Fully Licensed To Perform Electrical Work, In This Project State, For The Type Of Work To Be Performed In Accordance With All Applicable State Laws. Submit Copies Of Electrical License(s).	
EB-03	-	CODES - Meet & comply with all prevailing Federal, State, County & City Codes Including NEC (NFPA-70); ICC-IBC & any Ga Amendments; ICC-IEC & any Ga Amendments.	
EB-04	-	PERMITS & FEES: Secure & pay for all fees, licenses, permits, inspections. Submit Copy Of Each Permit	
EB-05	-	COORDINATION OF POWER UTILITY- Coordinate & verify, in writing, with the utility power company, confirming the electrical power arrangements, characteristics (Voltage, Phase, Transformer Type & KVA, Fault-Current, Etc.), metering arrangement and equipment locations. Copy Own/ Archt/ Engr.	
EB-06	-	COORDINATION OF LV COMMUNICATIONS UTILITY- Coordinate & verify, in writing, with the LV Communications Utility Company, confirming the LV Com Service routing, conduit quantity & sizes, termination locations, and other related requirements.	
EB-07	-	PROVISIONS TO BE INCLUDED- Labor, supplies and materials, tools, equipment, etc.; installation of all electrical equipment & connections; coordination with other trades; material shipping, delivery, receiving, storage, & protection; excavation, backfilling, cutting, patching and cleaning; guarantee for one year, plus any extended manufacturer's warranties; as-built reproducible Mylar record documents.	
EB-08	-	MATERIALS- All materials shall be new, currently manufactured, U.L. labeled, and meet all industry standards. Label all equipment. Provide 3000 PSI class concrete for bases and backfill. Provide 3/4" thick A/D fire retardant grade backboards. Provide all support hardware and systems for electrical work. Fire/smoke seal each penetration of any rated barrier (floor, wall, etc.).	
EB-09	-	MOTORS & CONTROLS- Motors are furnished and installed under other specification sections. Control and interlock wiring is furnished and installed under other specification sections. Individually mounted starters are furnished under other sections, mounted and power wiring connections provided under this section.	
EB-10	-	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings.	
EB-11	-	INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds.,), related codes and the manufacturer's published requirements.	
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		End Of Electrical Criteria - Basic Materials & Methods	

#	Rv #	ELECTRICAL CRITERIA - BONDING & GROUNDING	Check Off
EG-01	-	BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements	
EG-02	-	GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems.	
EG-03	-	BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping, gas piping, HVAC system piping.	
EG-04	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.	
EG-05	-	GROUNDING IN-GRADE CONDUCTORS: Bare, Tin-Plated Copper Of Size & Rating As Scheduled or Required.	
EG-06	-	BONDING & GROUNDING CONDUCTORS:- #10 and smaller - solid copper THHN/THWN Green Jacket Color; #6 & 8 - stranded copper THHN/THWN black jacket; #4 & larger - stranded copper THHN/THWN identified with Green Tape.	
EG-07	-	CONNECTIORS, IN-GRADE TYPE: UL Labeled for the application, location & use. Heavy-Duty Pure Wrought Copper fitting & devices. Compression type connections. BURNDY HYGROUND Series or Equivalent.	
EG-08	-	CONNECTIONS, COPPER- Twist on type for #8 and smaller copper conductors. Set screw/bolted type for #4 and larger copper conductors. Completely insulate each connection, splice, termination.	
EG-09	-	GROUND RODS (ERITECH 683400 Rod): Provide 10 Foot Long, 0. 75 In Diameter, Tin-On-Copper 10 Mil. Plated Steel Pointed Ground Rod, driven into earth with top 18 Inches below finished grade with inspection/ test well cover, top flush with grade. ANSI/UL-467 & ANSI/ NEMA-GR1. Mechancial Direct-Burial Ground Connector or Exothermic-Weld all ground cables to rods.	
EG-10	-	GROUND ROD INSPECTION WELLS/ ERITECH Wells - Where indicated or required, provide Ground Rod Inspection/ Test Well & Cover, top flush with grade.	
EG-11	-	MASTER GROUND BAR (MGB) (BURNDY BBB or ERICO TGB/TMGB)- Provide bare solid Alloy 110 Cu bus bar, electro-tin-plated, with pre-punched holes for two-bolt ground lugs, mounted on stainless steel brackets with insulated flame-resistant stand-offs. 0.25 Inch Thick, 4 Inch High, 20 Inch Long. UL 467 & C22.2 Listed. Anchor to structural wall at height as indicated or noted. Connection to this bar shall be by two-hole bolt lugs, exothermic welded or irreversible crimp connected to the respective cable. Locate at or near the electrical service main disconnect. Label MASTER GROUND BAR	
EG-12	-	ISBT (Inter-System-Bonding-Termination) GROUND BAR (ISBT) (ILSCO PET or Equal): Provide dual-rated, 8-hole lug with 2-predrilled mounting holes. Attach to each TELCO backboard for bonding of LV systems by others. Label ISBT GRND.	
EG-13	-	INSTALLATION STANDARDS: All bonding & grounding shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds.), related codes and the manufacturer's published requirements.	
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		End Of Electrical Criteria - Bonding & Grounding	

#	Rv #	ELECTRICAL CRITERIA - CONDUITS, BOXES & FITTINGS	Chk Off
ER-01	-	GENERAL- All wiring for power and systems shall done in accordance with the applicable codes. All materials shall be U.L. labeled, matched for proper applications and installed in accordance with U.L. & manufacturer's requirements.	
ER-02	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.	
ER-03	-	GENERAL UNDERGROUND- All underground, in-slab, exterior and exposed or surface mounted wiring shall be in conduits, unless otherwise directed.	
ER-04	-	GENERAL CONCEALED- All wiring shall be concealed where possible (i. e. -above ceilings, in walls, in slabs, or underground).	
ER-05	-	GENERAL EXPOSED- Exposed conduits shall be routed as high as possible and parallel or perpendicular to structural elements.	
ER-06	-	GENERAL BOXES- Provide boxes for all connections, devices, system, etc. Coordinate box sizes with structure to which it will be secured. Coordinate the exact final box location with the architectural/interior drawings prior to rough-in of box.	
ER-07	-	CONDUITS, IMC- conduit & fittings shall be utilized for exterior exposed locations and interior exposed locations subject to damage.	
ER-08	-	CONDUITS, EMT- EMT conduit & fittings shall be utilized for in slabs not on grade, concealed dry interior locations, interior exposed locations above 10'0" A. F. F.with set screw fittings indoor concealed dry locations and compression raintight fittings in slabs, and damp locations.	
ER-09	-	CONDUITS, PVC- conduit & fittings shall be utilized in slabs on grade, conduits in earth. PVC fittings, boxes, etc. shall be of same manufacture with solvent bond. Depth per code.	
ER-10	-	CONDUITS, FLEXIBLE- Flexible metallic conduit & fittings shall be utilized where motion or vibrations are encountered. Liquid-tight type flex shall be used in damp or wet locations, (i. e. - outdoors, kitchens, areas subject to wash down, shops & industrial areas, etc.). Provide ground wire in all flex.	
ER-11	-	CONDUIT MISC. FITTINGS- Conduit expansion/deflection fittings shall be utilized where crossing expansion joints, floating slabs or isolated slabs. Conduit thru wall seals shall be utilized where crossing between interior/exterior or damp locations. Conduit fire seals shall be utilized where passing thru fire rated construction, U. L. fire and smoke seal to maintain the fire rating of the barrier.	
ER-12	-	CONDUIT BOXES- Utilize interior stamped steel for indoors dry flush mounted devices. Masonry/tile for indoors dry flush mounted devices. Concrete boxes for flush mounting in poured concrete. Cast metal boxes for surface mounted devices, or damp/wet locations. Junction & pull boxes as required or needed. Galvanized steel wire-ways with hinged front cover, only permitted where noted.	
ER-13	-	FLOOR BOXES - Utilize flush-in-floor type, adjustable post-pour, PVC base with brass flip-lid covers. Gang qty to match application & conduit entries., Covers to match device types. Hubbell, Steel Cty or Wiremold	
ER-14	-	SIESMIC BRACING & SUPPORT- All work shall be anchored, braced & supported in accordance with he Local Seismic Zone rating requirements.	
ER-15	-	INSTALLATION STANDARDS: Each item shall be installed in accordance with the NEIS (Nat. Electrical Installation Stds.), NEC & related codes and the manufacturer's published requirements.	
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		End Of Electrical Criteria - Conduits, Boxes & Fittings	

#	Rv #	ELECTRICAL CRITERIA - LOW VOLTAGE CONDUCTORS	Chk Off
EC-01	-	CONDUCTORS GENERAL: Provide conductors for all circuiting, wiring and systems.	
EC-02	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.	
EC-03	-	CONDUCTORS COLOR CODED: Each conductor shall be properly color coded to represent it's respective phase, neutral, ground, etc. Wire sizes #12 thru #8 shall have continuous color-coded jacket. Larger wire sizes shall have colored tape at each termination, pull-box, etc.	
EC-04	-	CONDUCTOR LABELING: Each circuit labeled on the conductor and at each box.	
EC-05	-	CONDUCTORS, COPPER- #12 & #10 - solid copper THHN/THWN color coded; #6 & 8 - stranded copper THHN/THWN black jacket; #4 & larger - stranded copper THHN/THWN. No conductors less than #12 Cu allowed, unless specifically noted or control wiring.	
EC-06	-	CONDUCTORS, ALUMINUM- Aluminum (AL) not permitted unless noted. Where noted, conductors shall be compact strand type, THHN/ THWN.	
EC-07	-	CONNECTIONS, COPPER- U.L. Listed, 600V, 90C rated; Twist on type for #8 and smaller copper conductors. Set-Screw, Bolted or Compression type for #4 and larger copper conductors. Completely insulate each connection, splice, termination.	
EC-08	-	CONNECTIONS, ALUMINUM- U.L. Listed, 600V, 90C rated, compression, split-bolt, or set-screw type(s),for Aluminum or Dual-Rated. Completely insulate each connection, splice, termination.	
EC-09	-	CONNECTIONS, DAMP & WET LOCATION- UL Listed 486D type connector for damp & wet locations, sealant filled type. IDEAL Model 66 or Equal	
EC-10	-	CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, WATER-TIGHT- UL Listed 486D, 600V, 90C rated for In-Grade, Direct-Burial, Submersible.	
EC-11	-	GROUNDING CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE- UL 467 Listed, 90C rated, Compress Or Bolt Type With Inhibiting compound; For Use In Earth or Concrete.	
EC-12	-	METAL-CLAD (MC) CABLE (CONCEALED WIRING)- Contractor may utilize Metal-Clad (Type MC) for interior concealed branch circuit wiring in accordance with the code. All materials, fittings, hardware, etc. shall be U.L. labeled for use with MC cable and properly installed and supported. Type MC cable shall have an integral full length ground conductor, bonded to a ground lug or terminal at each end.	
EC-13	-	INSTALLATION STANDARDS: All wiring & connects shall be installed in accordance with the NEIS (Nat. Electrical Installation Stds.), NEC & related codes and the manufacturer's published requirements.	
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		End Of Electrical Criteria - Low Voltage Conductors	

#	Rv #	ELECTRICAL CRITERIA - LOW VOLT. ELECT. DISTRIB. GEAR	Chk Off
		GENERAL ITEMS	
ED-01	-	GENERAL- Provide Low-Voltage Electrical Distribution Gear as required to provide for a complete system to distribute electrical power.	
ED-02	-	ELECTRICAL RATINGS- Prior to ordering or submitting any electrical distribution equipment, verify all equipment ratings (Voltages, Phase, Short-Circuit With-Stand & Interrupting Ratings).	
ED-03	-	EQUIPM. DIMENSIONS, CLEARANCES & ACCESS: Prior to ordering or submitting any electrical distribution equipment, verify dimensions, space requirements, clearances, access and interference with work of other trades.	
ED-04	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.	
		LABELING & INSTALLATION	
ED-10	-	EQUIPMENT LABELS: Provide Engraved Melamine Equipment Labels, Adhesive Attached To The Items Face Or Interior Cover. Label To Include Equipment Name, Voltage(s) And OCP Device Ratings If Applicable.	
ED-11	-	SAFETY & WARNING LABELS: Provide Clear & Legible Safety & Warning Labels On Each Item Of Electrical Distribution Gear As Required By The NEC, OSHA & Other Regulations.	
ED-12	-	ARC-FLASH LABELS: Provide Clear & Legible Arc-Flash Labels On Each Item Of Electrical Distribution Gear, Giving The Minimum Ratings, Arc-Flash Energy Level & Required PPE For Each Specific Location.	
ED-13	-	SIESMIC BRACING & SUPPORT- Equipment shall be anchored, braced & supported in accordance with he Local Seismic Zone rating requirements.	
ED-14	-	INSTALLATION STANDARDS: Each item shall be installed in accordance with the NEIS (Nat. Electrical Installation Stds.), NEC & related codes and the manufacturer's published requirements.	
		LOW VOLTAGE OVER-CURRENT PROTECTIVE DEVICES	
ED-21	-	OCP GENERAL- Provide over-current-protective (O.C.P.) devices as required by code and/or otherwise prescribed. All lugs and terminals 60/75 deg. C rated.	
ED-22	-	MOLDED CASE (MC) CIRCUIT BREAKERS- Thermal-magnetic, bolt-in, quick-make/quick-break type. Trip free operation with ON, OFF & TRIPPED position. Monolithic tie-handle common trip and common reset multi-pole breakers. Trip rating molded on handle or face. Lugs to match cable type terminations. Single pole 15 and 20 ampere breakers to be "SWITCHNG" rated.	
ED-23	-	DISCONNECT REQUIRMENTS - NEMA 1 enclosure indoors, NEMA 3R for damp/wet locations. Voltage, poles, amperage, fusible as required. Equipped with both isolated neutral and ground lugs. Class H, J, R or T fuse with rejection features. Provide switch label.	
ED-24	-	DISCONNECTS 30AMP. – 200AMP (240V Max) - Labeled per UL #98. NEMA KS1 general duty type, load make/break rated. Interrupting rating of 100,000 RMS amps (with R/ T fuse).	
ED-25	-	DISCONNECTS 400 & 600 AMPERES - Labeled per Ul #98. NEMA KS-1 heavy duty type, load make/break rated. Interrupting rating of 200,000 RMS amps (with fuse).	
ED-26	-	DISCONNECT OVER 600 AMPERES- Labeled per Ulf #977, bolted pressure or high pressure contact type. NEMA heavy duty type, load make/break rated. Accept Class L fuses (as required). Interrupting rating of 200,000 RMS (with fusing). Manual close - manual/electric trip open. Load side phase under voltage detection/trip. Zero sequence GFCI on switches 1000A @ 277 and greater.	
ED-27	-	FUSES- Fuses shall be of same make, manufacturer, type & rating where providing two or three wire O.C.P. at a device. Provide Busman LOW-PEAK KRP-C. fuses (U.L. 198 C Class L) for protection over 600 amperes. Provide Busman LOW-PEAK LPN-RK (250V) or LPS-RK (600V) (U.L. 198E Class RK1) for protection up to 600 amperes.	
		PANELBOARDS	
ED-30	-	PANELBOARDS GENERAL- Provide dead front design with hinged & locking front cover door, NEMA 1 cabinet unless otherwise noted and with devices as scheduled. Voltage, phase, ampacity and devices as scheduled. Service entrance rated as applicable. Series rated and labeled, unless indicated otherwise. Flush or surface mounted NEMA 1 enclosure. All lugs & terminals 60/75 deg. C rated.	
ED-31	-	PANELBOARD STANDARDS- Labeled UL 67 and 50 (Cabinets, Boxes & Trim); NEMA 250 and PB1; NFPA 70-384 and 373; Federal Specs. W-P-115c; Circuit Breakers- Type I Class 1 & Fusible Switches- Type II, Class 1.	
ED-32	-	SHORT CIRCUIT RATING & ARC-FLASH LABELS: Match or exceed the Available Short Circuit Current available at the actual panel location; Properly label with Arc-Flash Energy Level & protective requirements (PPE).	
ED-33	-	PANELBOARD INTERIOR- Factory assembled, double row construction. Staggered numbering, sequence phased. Tin-plated copper or aluminum busing. Full ampacity phase & neutral bus, 50% ground bus.	
ED-34	-	OCP DEVICES, COMPONENTS, ETC: Provide all over-current-devices and other components and related as scheduled and / or required. Refer to panel schedule for details. Refer to Over-Current Protective (OCP) devices criteria.	
ED-35	-	PANEL DIRECTORIES - All Panel Directories Shall Be Current, Fully Detailed & Legible Per NEC-110.22 & 408.4(A)	
		SWITCHBOARDS	
ED-40	-	SWITCHBOARDS GENERAL- Provide equipment with dead front design and with devices as scheduled. Voltage, phase, ampacity and devices as scheduled. Service entrance rated as applicable. Free-Standing, NEMA 1 enclosure unless otherwise required. All lugs & terminals 60/75 deg. C rated.	
ED-41	-	SWITCHBOARD STANDARDS- The equipment and all installed components shall be UL Listed & Labeled. Labeled UL 891; NEMA 250 and PB2; NFPA 70-384 and 373; Federal Specs. W-P-115c; Circuit Breakers- Type I Class 1 & Fusible Switches- Type II, Class 1.	
ED-42	-	SHORT CIRCUIT RATING & ARC-FLASH LABELS: Match or exceed the Available Short Circuit Current available at the actual panel location; Properly label with Arc-Flash Energy Level & protective requirements (PPE).	
ED-43	-	SWITCHBOARD INTERIOR- Factory preassembled, sequence phased. Tin-plated copper or aluminum busing unless otherwise noted. Full ampacity phase & neutral bus, 50% ground bus.	
ED-44	-	OCP DEVICES, COMPONENTS, ETC: Provide all over-current-devices and other components and related as scheduled and / or required. Refer to panel schedule for details. Refer to Over-Current Protective (OCP) devices criteria.	
ED-45	-	CIRCUIT DIRECTORIES - All Circuit Directories Shall Be Current, Fully Detailed & Legible Per NEC-110.22 & 408.4(A)	
		TRANSFORMERS	
ED-50	-	TRANSFORMERS GENERAL- Provide dead-front dry-type transformer. Labeled per UL #506, conform with NEMA #250, #ST20 and TR27. General purpose air-cooled dry-type construction. Size, capacity, primary and secondary voltage, as indicated. NEMA 1 enclosure for indoor dry locations, NEMA 3R enclosure for damp/wet locations. Dead-front construction with removable covers. Maximum temperature rise by resistance of 115 degrees C. in a 40 degrees C. ambient. 75 degrees C. maximum terminal compartment with 60/75 degree C. lugs to match the conductor types. Two 2-1/2% above normal and four 2-1/2% below normal full capacity winding taps.	
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		End Of Electrical Criteria - Low Voltage Electrical Distribution Gear	

#	Rv #	ELECTRICAL CRITERIA - PROJECT CLOSE-0UT	Chk Off
EZ-01	-	REVIEW REQUEST NOTICE(s)- This Contractor Shall Notify, In Writing, At Least 10 Days In Advance, To Own/ Archt/ Engr, Of The Desired Date To Request Having An On-Site Review Performed.	
EZ-02	-	AHJ INSPECTION REPORTS- This Contractor Shall Submitt Copy(s) Of Each Inspection Report As Given By The Authority Having Jurisdiction (A-HJ) To The Own/ Archt/ Engr.	
EZ-03	-	ROUGH IN REVIEWS - Request Rough-In Reivew(s) Before Any Mateiral Or Work Is Covered And Unobservable.	
EZ-04	-	CERTIFICATIONS & TEST REPORTS- Provide Copies Of All Required Certifications And Test Results Prior To Requesting Final Review.	
EZ-05	-	CONTRACTOR REVIEW- This Contractor Shall Throughly Review & Document That The Complete Work Is Properly Functioning & Opeating Prior To Requesting A Final Review.	
EZ-06	-	REVIEW ELECTRICAL BONDING & GROUNDS- Verify Each Service Ground & Bond Is Properly Installed, Connected & Labled.\	
EZ-07	-	REVIEW ELECTRICAL SERVICE & VOLTAGE- Test & Record The Actual Voltages (L-L, L-N,L-G, N-G) And Amperages Of Each Line, Netural & Ground At The Service Entrance	
EZ-08	-	REVIEW ELECTRICAL DISTRIBUTION- Review & Document Each Part Of The Electrical Distribution System. Verify Proper Size & Ratings Of Each Item, Proper Connections & Torque Values. Verify Proper Bonding & Grounding.	
EZ-09	-	REVIEW ELECTRICAL PANEL DIRECTORIES - Review & Verify Detial Panel Directories Are Complete, Correct & Installed. Provide Complete "As-Built" Panel Schesule, In PDF Format To Owner For Their Records.	
EZ-10	-	REVIEW ELECTRICAL EQUIPMENT WIRING- Review Each Equipment Connection, Verify Circuit Protection Complies With The Equipment UL Listings & Ratings. Verify Disconnects Are Properly Labeled. Check For Proper Voltage & Phase Rotation For Equipment.	
EZ-11	-	REVIEW ELECTRICAL WIRING & DEVICES- Review & Document That All Branch Circuit Wiring Is Properly Installed, Bonded & Operational. Test Each Outlet With For Proper Continuity, Polarity & Grounding. Test Using An IDEAL INDUSTRIES SURE-TEST Model 61-165 Or Equal.	
EZ-12	-	REVIEW ELECTRICAL LIGHTING & CONTROLS- Review & Document That All LIGHTING Fixtures Are Properly Operating And Clean. Verify Proper Operation Of All Lighting Controls. Program & Set An Control Operations And/ Or Schedules Per Owner.	
EZ-13	-	REVIEW ELECTRICAL EMERGENCY EGRESS LIGHTING & EXIT SIGNS:- Review & Document That Each Emergency Lighting Fixture And / Or System And Each Exit Sign Is Properly Functioning. Turn Off Building / Suite Power For 90 Minutes And Verify Emergency Lighting & Exit Are Operational Per Code.	
EZ-14	-	REVIEW ELECTRICAL SUB-SYSTEMS- Refer To The Specific Requirments Of Each "Sub-Systems" (i.e.-Fire Alarm, Data-Voice, Etc.).	
EZ-16	-	KEYS & SPARE PARTS- Label & Turn Over All Keys To Owner's Personell. Review & Show All Spare Components & Parts To Owner's Personell & Document With Transmittal.	
EZ-17	-	"AS_BUILTS" - Provide Copies, In Hard-Copy & PDF Format, Of The Field Recored Documents With All "As-Built" Field Documentation Reflecting The Final Installed Conditions. Copy To Own/ Archt/ Engr.	
EZ-18	-	WARRANTY- This contractor shall warrant all materials, labor & installation for one full year from date of Certificate of Occupancy. Any extended product warranties shall be passed onto the owner.	
EZ-20	-	INSTRUCTIONS & TRAINING:- Schedule & Provide A Instructional & Traning Session With The Owner's Designated Personell. Review The Project Manual, Perform A "Walk-Thru" Review Of The All Electrical System(s) And Their Proper Operation, Including Resetting Of Breaker & Replacment Of Fuses.	
EZ-21	-	PROJECT MANUAL(S)- Provide Both A Bound "Hard-Copy" & PDF Version To The Owner & PDF Copy To The Archt/ Engr. The Project Manual Shall Include The Contractors Contact Information, Permits, Copies Of All "As-Builts", Product Submittal Data, Copies Of All Inspection Reports, Certifications & Test Results. Include All Maintenance Data, Instructions, & Warranty Information.	
EZ-22	-	FINAL REVIEWS - Request A Final Reivew Once All Work & Systems Are Completed, Checked And In Proper Operation	
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		End Of Electrical Criteia - Project Close-Out	

#	Rv #	ELECTRICAL CRITERIA - TELCO V/D/B RACEWAYS	Chk Off
ET-01	-	TELCO RACEWAY SCOPE-OF-WORK: Providing raceways, backboards and wall boxes with conduit stub-ups & pull-strings only for devices, cabling & equipment installation by others (Telco, Voice, Data, Broadband, Etc.)	
ET-02	-	TELCO DEVICES, CABLING & EQUIPMENT: All cabling, jacks, devices, hardware, equipment & software & related installation is the responsibility of the owner or tenant.	
ET-03	-	TELCO UTILITY COORDINATION: Prior to any rough in, coordinate, in writing, with the Telco Service Provider all related requirements- route, conduit qty & sizes, grounding, etc.	
ET-04	-	TELCO SYSTEM PROVIDER COORDINATION: Prior to any rough in, coordinate, in writing, with the Telco Service Provider all related requirements- route, conduit qty & sizes, grounding, etc.	
ET-05	-	TELCO SERVICE CONDUITS: Quanity & size as required or shown, use long radius bends (10X) on all raceway bends & turns. Install Pull-Strings, tagged & tied-off at each end.	
ET-06	-	TELCO- V/D BACKBOARDS: 3/ 4" Thick A/D Grade fire-retardant plywood, painted with two coats of fire-retardant grey paint, bottom 18 In AFF, secured to wall structure. Provide 4-Hole ground lug with #6 ground extended to main service ground & bonded.	
ET-07	-	V/D WALL BACKBOXES & STUB-UPS: Provide double gang wall boxes with plaster ring with 1" C. stub-up & turn-out into an accessible plenum. Jacks, devices & covers by owner or tenant's vendor-installer. Install Pull-Strings, tagged & tied-off at each end.	
ET-08	-	V/D WALL FLOOR BOXES & STUB-UPS: Provide flush-in-floor box(s) with 1" C. under floor, to a wall & stub-up & turn-out into an accessible plenum. Jacks, devices & covers by owner or tenant's vendor-installer. Install Pull-Strings, tagged & tied-off at each end.	
		- - - - - -	
		End Of Electrical Criteria - TELCO V/D/B Raceways	

19.08.12		LaGrange Police Dept 2019 Mods	
DN-	Rv	ELECTRICAL DISCLAIMERS & PROJECT NOTES	CO
01	-	**CONSTRUCTION MODS**- This Project Is Consist Of Improvements, Modifications, & Renovations Within An Existing Building. Construction Will Be Phased, See Architectural Criteria.	
02	-	**EXISTING CONDITIONS>** This Project Involves Existing Conditions & This Contractor Is Responsible For Making An On-Site Review & Familiarizing Of All Existing Conditions & Providing For Accommodating The Existing Conditions In The Pricing For This Work, Prior To Work Start.	
03	-	**EXISTING ELECT. DISTB.**> This Project's Electrical Power Service, Metering & Distribution Is Existing. This Contractor Is Responsible For Making An On-Site Review & Familiarizing Of All Existing Conditions & Providing For Accommodating The Existing Conditions In The Pricing For This Work.	
04	-	**SEQUENCING OF WORK>** Prior To Start, All Work Shall Fully Coordinated With The Owner-Occupant, And Documented In Writing The Distributed To The Owner-Operator-Occupant(s). Update As Required.	
05	-	**POWER OUTAGE>** Any Power Outages Shall Be Fully Pre-Arranged With The Owner-Operator Well In Advance Of The Actual Outage. If Required & As Contracted With Owner-Operator Provide For Any Necessary Temporary-Backup Power Needs.	
06		**LIGHTING COORDINATION:** Refer To & Coordinate With The Architectural-Interiors (A/I) (i.e.-Ceiling Types & Layouts, Fire-Ratings, Mounting Heights, Etc.).	
06	-	**EMERGENCY EGRESS & EXIT LIGHTING** Is Provided Via Battery Backup Units. Refer To The Lighting Fixture Schedule.	
07		**GENERATOR POWER SYSTEM (OPTIONAL STAND-BY)**> This Facility Has A Generator Power Source & Automatic Transfer Switch In Addition To Normal Utility Power.	
08	-	**SLAB PENETRATIONS:** Verify Each With Building Owner's Representative. Provide Scanning / X-Ray If Required Prior To Penetration To Confirm Location Acceptability.	
09	-	**FIRE ALARM** - Not In This Work-Scope.	
10	-	**TELCO-VOICE-DATA SYSTEM(s)**- Not In This Work-Scope.	
11	-	**TV-BROADBAND SYSTEM(s)**- Not In This Work-Scope.	
12	-	**ACCESS CONTROL & SECURITY**- Not In This Work-Scope.	
13	-	**OWNER-TENANT-USER PRODUCTS**: It Is Our Understanding That No Hazardous Environments Or Product Requiring Special Handling, Treatment, Etc. Are Involved. Any Hazardous Products, Use, Etc. Are Sealed & Stored & Properly Used So As To Not Require Special Environmental Conditions.	
14	-	**OWNER-TENANT FFE**- Some Items Are Owner or Tenant Provided & Installed. Prior To Start Of Work Verify Each Items Final Location and That Supply & Drain Connection Requirements Match Provisions As Shown On The Documents. Advise of Any Discrepancy.	
15	-	**OWNER-TENANT-USER RESPONSIBILITIES**- To Review & Train In Proper Operations & Maintenance Of The Electrical Components & System.	
16	-	**OWNER-TENANT-USER -CONTRACTOR REVIEW & TRAIN:** Contractor Is To Provide Complete Copies Of Legible Field Record Drawings (i.e.-As Built) & Review Them With The Owner & Owners Representatives. Train In Proper Operations & Maintenance Of The Electrical Components & System	
17	-	**OWNER-TENANT-USER RESPONSIBILITIES**- Regularly Test (Every 3 Months) GFCI & AFCI Devices To Ensure Proper Operation.	
18	-	**OWNER-TENANT-USER EMERGENCY SYSTEM TESTING RESPONSIBILITIES**- To Regularly (Verify Monthly) Check, Test & Document The Proper Operation Of The Emergency Lighting System. Refer To NFPA-101 & OSHA Regulations. Documentation & Forms. Note, Automatic Self-Testing Units May Qualify, Check Regs.	
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19-121		End Of Disclaimer & Project Notes	

Architect's Stamp

Signature Required

SMITH DESIGN GROUP, INC.
206 WEST HARALSON ST
LAGRANGE, GEORGIA 30240
706-882-5511 www.SDGarch.net

9309 Seminole Road
Jonesboro, Georgia 30236
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maddoxgroup@comcast.net

TMG Job #: 19-121
Copywright -TMG- 2019

THE MADDOX GROUP, INC.
DESIGN & ENGINEERING CONSULTANTS

Revisions

#	Date	Description

Project Title:

RENOVATIONS TO LAGRANGE POLICE DEPT

100 West Haralson St.
LaGrange, GA. 30240

Sheet Title:

ELECTRICAL CRITERIA

Modified Date: 2019.08.12

SDG Job No: 1911

Issued Date: Bid & Permit 2019.08.12

Sheet: E-0.1

Proj	LaGrange Police Dept 2019 Mods	MDP	19.08.12 Date
Place	LaGrange, GA. 30240	MAIN SERVICE DISTRIBUTION BOARD	Const Status

Fed From:	Utility	Bus Amps	1200	Bus (CU/AL)	CUorAL	Volts-LL	240
Ends Type:	NEMA 1, Free-Standing	Main Type	MCB	Neut Bus %	100%	Volt-LN	120
Cover:	None	Main Amps	1200	Grnd Bus %	100%	Phase	3
Full / Series:	Fully Rated	SC- kAIR	100 kA	Branch OCP	MCCB	Wires	4

G01 EXISTING DISTB BOARD, Sq-D I-Line G04 NEW ITEMS TO MATCH EXIST TYPES G06 Delta Hi-Leg (B-Phs-Orange)
G03 TO REMAIN & BE REUSED G05 WARNING > 240D-120V Delta Hi-Leg G06 Utility Peak kW Demand > ~125 kW

Ckt #	Exist. New	Load Description Verify Exist, Update Directory	Nt. #	Frame Amps	Trip Amp	# Poles	Wiring (Verify Existing)	LT	Connected VA Per Phase PH A	PH B	PH C	TOTAL kVA	Revs #
01	Ex	Verify	01	60	20	1	Verify		0	0	0	0.0	
02	Ex	Verify	01	60	20	1	Verify		0	0	0	0.0	
03	Ex	Verify	01	60	20	1	Verify		0	0	0	0.0	
04	Ex	Verify	01	60	20	1	Verify		0	0	0	0.0	
05	Ex	Verify	01	60	20	1	Verify		0	0	0	0.0	
06	Ex	Verify	01	60	20	1	Verify		0	0	0	0.0	
07	Ex	Verify	01	60	20	1	Verify		0	0	0	0.0	
08	Ex	Verify	01	60	20	1	Verify		0	0	0	0.0	
09	Ex	MA Pnl, 1-Phs (Existing)	01	100	100	2	(1Cu) 3# 1+ 8G- 1.50"C	P	2,600	0	2,720	5.3	
10	Ex	MB Pnl, 1-Phs	01	100	100	2	(1Cu) 3# 1+ 8G- 1.50"C	P	3,546	0	3,750	7.3	
11	Ex	LAA Pnl, 1-Phs	01	400	225	2	(1Cu) 3# 4/0+ 4G- 2.50"C	P	7,125	0	6,305	13.4	
12	Ex	LCA Pnl, 1-Phs	01	400	225	2	(1Cu) 3# 4/0+ 4G- 2.50"C	P	14,575	0	15,325	29.9	
13	Ex	LBA & LBB Pnl, 1-Phs	01	400	225	2	(1Cu) 3# 4/0+ 4G- 2.50"C	P	7,200	0	4,600	11.8	
14	Ex	P-03 Pump (Verify> 5.0 HP)	01	60	20	3	(1Cu) 3# 12+ 12G- 0.50"C	M	2,000	2,000	2,000	6.0	
15	Ex	P-01 Pump (Verify> 5.0 HP)	01	60	20	3	(1Cu) 3# 12+ 12G- 0.50"C	M	2,000	2,000	2,000	6.0	
16	Ex	P-03 Pump (Verify> 5.0 HP)	01	60	20	3	(1Cu) 3# 12+ 12G- 0.50"C	M	2,000	2,000	2,000	6.0	
17	Ex	Verify	01	60	20	3	(1Cu) 3# 12+ 12G- 0.50"C		0	0	0	0.0	
18	Ex	Elevator Drive (Verify> 20 HP)	01	100	90	3	(1Cu) 3# 4+ 8G- 1.00"C	M	7,170	7,170	7,170	21.5	
19	Ex	P-04 Pump (Verify> 5.0 HP)	01	60	20	3	(1Cu) 3# 12+ 12G- 0.50"C	M	2,000	2,000	2,000	6.0	
20	Ex	Verify	01			3	Verify		0	0	0	0.0	
21	Ex	Verify	01			3	Verify		0	0	0	0.0	
22	Ex	L1A & L1B Pnl, 3-Phs, 4-Wire	01	400	225	3	(1Cu) 4# 4/0+ 4G- 2.50"C	P	21,470	14,200	25,440	61.1	
23	**NEW**	**L1M Pnl, 3PH, 3W**		**400**	**400**	**3**	**(1Cu) 4# 500+ 3G- 4.00"C**	P	47,076	39,168	42,348	128.6	
24	Ex	Chiller (Verify> 292-MCA)	01	400	350	3	(1Cu) 4# 500+ 3G- 4.00"C	C	36,252	36,252	36,252	108.8	
25	**NEW**	**M2D Pnl, 3PH, 3W**		**400**	**225**	**3**	**(1Cu) 4# 4/0+ 4G- 2.50"C**	P	26,196	25,068	19,392	70.7	
26	Ex	ATS-GEB, GEA, GEC, 3P/4W	1,2	100	100	3	(1Cu) 4# 1+ 8G- 1.50"C	P	17,870	0	18,200	36.1	
27	**New**	**LSA Pnl, 1Ph, 3W**		**400**	**225**	**2**	**(1Cu) 3# 4/0+ 4G- 2.50"C**	P	7,715	0	5,855	13.6	
28	**New**	**L1N Pnl, 1Ph, 3W**		**100**	**100**	**2**	**(1Cu) 3# 1+ 8G- 1.50"C**	P	9,000	0	7,600	16.6	
29	Ex	Verify	01			3	Verify		0	0	0	0.0	
30	Ex	Verify	01			3	Verify		0	0	0	0.0	

Item Notes (Nt #):

01-	Check, Verify & Document Existing OCP, Feeder, Etc.
02-	Fully Check, Verify & Document The Generator, ATS & Distribution
03-	- -
04-	- -
05-	- -

Load Totals & Calculations:

Connected Watts / VA Phs:	**215,795**	**129,858**	**202,957**	**549 kVA**
Conn. 1-Phs Amps / Phs:	**1,557**	**937**	**1,465**	**1,320 Amps**
Factored Load kVA:	- -	**278**	**kVA**	**669 Amps**
Additional Spare Capacity:	15%	**42**	**kVA**	**100 Amps**
TOTAL FINAL LOAD:	- -	**320**	**kVA**	**769 Amps**

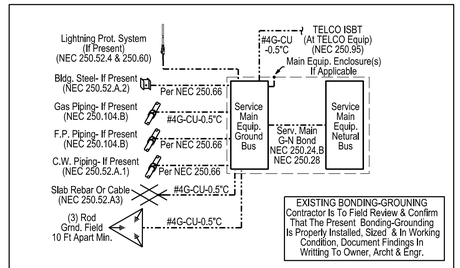
By: MADDOX GROUP INC. End Of Switchboard Schedule 19-121

(XXXX) POWER DISTRIBUTION SCHEDULE (XXXX)

LaGrange Police Dept 2019 Mods — ELECTRICAL SYSTEM — 19.08.12
LaGrange, GA. 30240 — SERVICE & DISTRIBUTION SCHEDULE — Const

Rv#	Tag ID#	Description / Label	Volts/ Phase/ Wires	Wiring (#Sets,Cu/Al), Ratings, Size, Etc.	Fault SCkA	Arc-Flash	Item Nt #
		Service Bonding & Grounding (Each Service)					
-	G00	Master Grnd Bus (MGB)	Ground-Bus, Mtd. High On Wall With Label	Term. Cables With 2-Hole Cable Lugs & Label Each Cable; Burndy BBB or Erico TGB/ TMGB	- -	- -	-
-	G01	Bond/Grnd- To CW Main	(1) #3/0G- 1"PVC	Clamp With-In 5 Ft Of Pipe Entrance	- -	- -	-
-	G02	Grnd- To Slab Rebar	(1) #4G- 1"PVC	20 Ft 1/2" OD Rebar Or #4 Bare Cu	- -	- -	-
-	G03	Grnd- To Grnd Rod Field	(1) #4G- 1"PVC	(3) 10 Ft SS Grnd Rods Space 10 Ft Apart	- -	- -	-
-	G04	Bond/Grnd- To Bldg Steel	(1) #3/0G- 1"PVC	U.L Bond To Major Steel Member	- -	- -	-
-	G05	Bond/Grnd- To FP Main	(1) #3/0G- 1"PVC	Clamp With-In 5 Ft Of Pipe Entrance (IF PRESENT)	- -	- -	-
-	G06	Bond- To Gas Main Pipe	(1) #4G- 1"PVC	Clamp With-In 5 Ft Of Pipe Entrance (IF PRESENT)	- -	- -	-
-	G07	Bond/Grnd- To Lightning Prot	(1) #3/0G- 1"PVC	Bond To Ltgn Prot (IF PRESENT)	- -	- -	-
-	G10	Grnd Electrode To Each Serv	(1) #3/0G- 1"PVC	Bond To Main Grnd @ Service	- -	- -	-
-	G11	Main Bonding Jumper (G-N)	(1) #3/0G- 1"PVC	Unspliced Inside Each Serv Disc	- -	- -	-
-	G20	Bond- To Telco ISBT	(1) #2G- 1"PVC	Grnd To Each LV Comm Service(s)	- -	- -	-
-	G21	ISBT(Inter-System Bonding Terminal) Ground Bar	ILSOC PET Or Equal	Dual-Rated, 8-Hole Lug With 2-Mtg Holes	- -	- -	-
-	-	- - -	- - -	- - -	-	-	-

MADDOX GROUP INC. End Of Distribution Schedule - Utility Power 19-121



EXISTING BONDING-GROUNING Contractor Is To Field Review & Confirm That The Present Bonding-Grounding Is Properly Installed, Sized & In Working Condition, Document Findings In Writting To Owner, Archt & Engr.

SERVICE MAIN - BONDING & GROUNDING

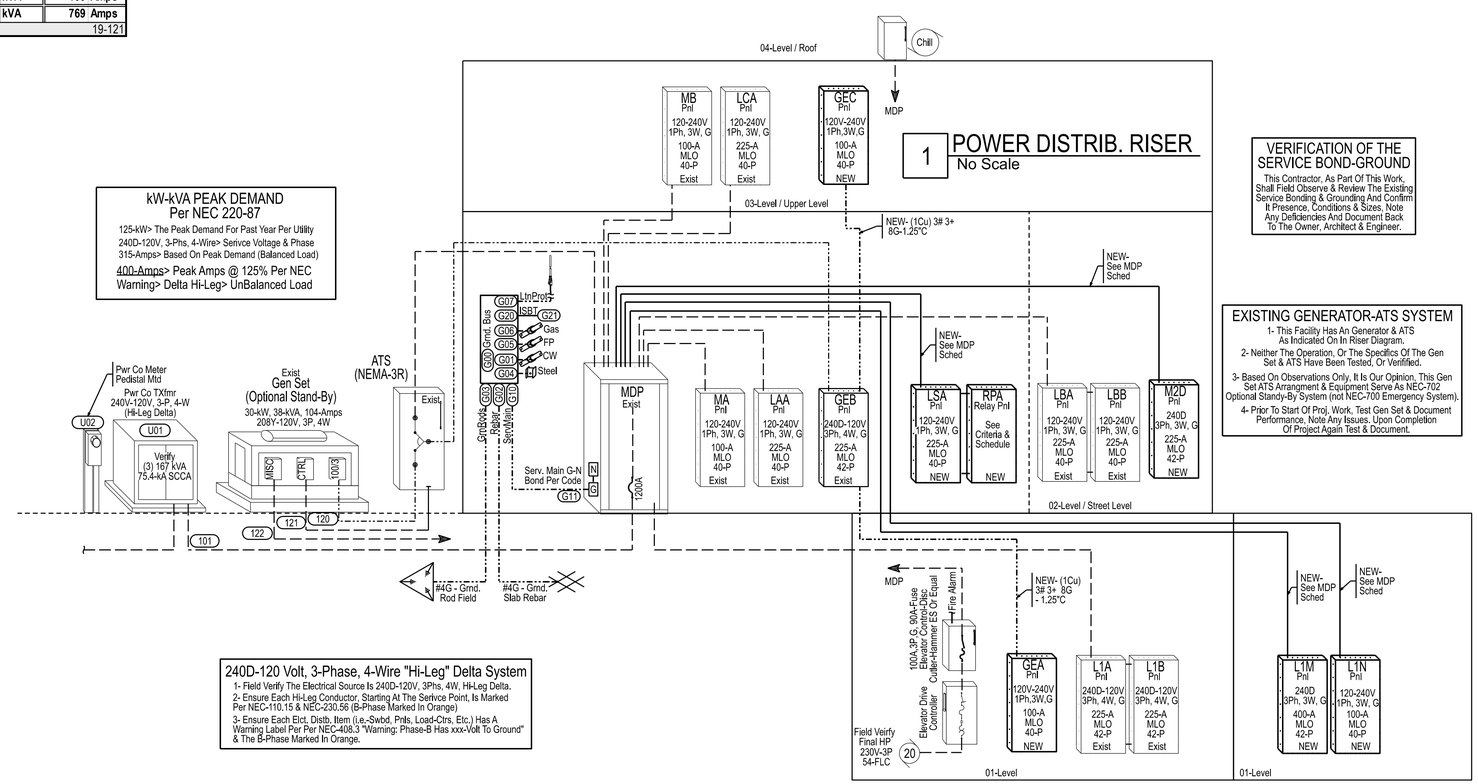
DETAIL # - MG NOT TO SCALE

RISER LEGEND

- New Work (Equip, Wiring, Etc)- Solid Heavy Line Work
- Existing Equipment, Etc. To Remain- Solid Thin Line Work
- Exist. Cabling, Conduit, Etc.To Remain - Dashed Thin Line Work
- Demo Work (See Demo Notes)- Dash-Dot Thin Line Work

RISER GENERAL NOTES

1- This Riser Represent Existing Work To Remain Unless Noted As Modifications Or New Work
2- This Existing Riser Drawing Is Based On Available Inform & Thus May Not Match Field Conditions.
3- This Contractor Is To Thoroughly Field Review & Document The Actual Distribution Arrangement.
4- Document Each Service & Feeder Routing, # Sets, Conductors & Raceway Size.
5- Document Each Distribution Board, Panel, Etc. Make A Complete Schedule For Each.
6- Thoroughly Verify Each Bond & Ground For Proper Size, Good Condition, Label & Document.
7- Ensure Each Electrical Distribution Item Is Properly Labeled With Equipment Name, Etc.
8- Ensure Each Electrical Distribution Item Has Proper Safety & Arc-Flash Labeling.
9- Immediately Notify, In Writing, The Owner, Architect & Engineer Of An Deficiencies Found.



VERIFICATION OF THE SERVICE BOND-GROUND

This Contractor, As Part Of This Work, Shall Field Observe & Review The Existing Service Bonding & Grounding And Confirm If Presence, Conditions & Sizes, Note Any Deficiencies And Document Back To The Owner, Architect & Engineer.

EXISTING GENERATOR-ATS SYSTEM

1- This Facility Has An Generator & ATS As Indicated On In Riser Diagram.
2- Neither The Operation, Or The Specifics Of The Gen Set & ATS Have Been Tested, Or Verifified.
3- Based On Observations Only, It Is Our Opinion, This Gen Set ATS Arrangment & Equipment Serve As NEC-702 Optional Standy-By System (not NEC-700 Emergency System).
4- Prior To Start Of Proj. Work, Test Gen Set & Document Performance, Note Any Issues, Upon Completion Of Project Again Test & Document.

240D-120 Volt, 3-Phase, 4-Wire "Hi-Leg" Delta System

1- Field Verify The Electrical Source Is 240D-120V, 3Phs, 4W, Hi-Leg Delta.
2- Ensure Each Hi-Leg Conductor, Starting At The Serivce Point, Is Marked Per NEC-110.15 & NEC-230.56 (B-Phase Marked In Orange)
3- Ensure Each Elct. Distb. Item (i.e.,-Swbd, Pnls, Load-Ctrs, Etc.) Has A Warning Label Per Per NEC-408.3 "Warning: Phase-B Has xxx-Volt To Ground" & The B-Phase Marked In Orange.

Architect's Stamp

Signature Required

SMITH DESIGN GROUP, INC.
206 WEST HARALSON ST
LAGRANGE, GEORGIA 30240
706-882-5511
www.SDGarch.net

9309 Seminole Road
Jonesboro, Georgai 30236
770 - 471 - 9076
maddoxgroup@comcast.net

GEORGIA No 1329 PROFESSIONAL ENGINEER ROBERT M. MADDOX 8/16/19

TMG Job #: 19-121
Copywright -TMG- 2019

THE MADDOX GROUP, INC.
DESIGN & ENGINEERING CONSULTANTS

Revisions

#	Date	Description

Project Title:

RENOVATIONS TO LAGRANGE POLICE DEPT

100 West Haralson St.
LaGrange, GA. 30240

Sheet Title:

ELECTRICAL RISER & SCHEDULES

Modified Date:	SDG Job No:
2019.08.12	1911
Issued Date: Bid & Permit 2019.08.12	Sheet: E-02

Ex #	Rv #	ELECTRICAL CRITERIA - EXISTING CONDITONS & DEMOLITION	Chk Off
01	-	The contractor shall visit this project facility, prior to quote, and become familiar with the existing layouts, structure and types of construction, the present electrical system and other trades.	
02	-	Alterations to existing work are of such nature that every facet of the work is impractical to detail and specify, it is therefore the responsibility of the contractor to carefully examine the present facility and the scope of the proposed new work. No additional compensations will be made due to problems with existing conditions.	
03	-	The documents indicate the completed design after demolition, modifications, and additions. The contractor shall provide all work necessary to achieve this design. Any items noted as existing to remain, be modified, or deleted shall be field verified, and any variances to accommodate field conditions shall be provided by the contractor in his quote.B5	
04	-	The contractor shall provide any and all required demolition to accommodate the work. Note that the demolition work is not necessarily indicated or detailed. The contractor is responsible for the planning, investigation, and demolition work. This shall include all work needed to modify or accommodate any electrical or related system(s) that must be maintained during and/or after construction.	
05	-	This contractor shall provide for any cutting, patching and refinishing of floors, walls ceilings, etc. necessary for the installation of this work. Patching and refinishing shall match the condition and material of the work being cut. Prior to cutting or digging verify and provide for any existing system or utility lines. No cutting, coring or other modifications or alterations shall be made that impact the building structural integrity. No coring, boring or cutting allowed on post-tension structures with out written approval of the structural engineer.	
06	-	This contractor shall provide for and maintain any owner's waterproofed barrier/roof warranty to roofs, etc. by utilizing the services of the warranty provider for cutting, patching, or other work to waterproofed barriers.	
07	-	Any dimensions given shall be field verified and coordinated with the existing conditions. Field verify the final exact locations for stub-up, floor boxes, etc. with architect/tenant prior to rough-in.	
08	-	Contractor shall schedule all work with owner/tenant. Any shut-downs or power outages shall be planned a minimum of 72 hours in advance. Shut-downs and outages shall occur after normal business hours. The contractor shall provide for temporary power for any system(s) or equipment that cannot remain off-line for the duration of the shut-down.	
09	-	Where access to the adjacent spaces, floor(s) below or above is required, the contractor shall coordinate with both the landlord and occupant(s) of these spaces for access. The contractor shall protect the existing occupant(s) space & equipment during construction. These spaces shall be left in pre-construction condition Contractor shall work in these spaces during off-hours to avoid disrupting the normal occupancy use.	
10	-	The contractor shall, prior to ordering, field verify and document the manufacturer, model, make, type, finish, characteristics, etc. of any existing equipment, items, materials, fixtures, etc. that will be added to, modified, replaced, etc. Any new, additions to, modifications to or replacements involving existing work shall be verified with the manufacturer(s) for compatibility, proper operation and shall not void any warranty.	
11	-	Where any new work involves demolition, additions to, or modifications to any existing systems, such as fire alarm system, controls systems, etc., the contractor shall involve the services of the system manufacturer's authorized representative to insure the proper operation of the system and the integrity of any system service or maintenance agreement(s).	
12	-	Prior to the start of any work, the contactor shall field document the present loads and capacities of every panel, feeder, distribution equipment and service which will be affected by load addition(s), modification(s) or change(s), by taking actual Amperage reading with a "TrueRMS Ampmeter. Use schedules to record the data, including date, time, personnel name(s) & weather & temperature. Distribute to Owner, Architect & Engineer as record data.	
13	-	Prior to the modifications or demolition of any existing cricuts, the contractor shall trace the circuits from the point-of-origin (i.e.-panel, etc.) and determine which devices, items, etc. are powered by that circuit & shall label them with a circuit ID (i.e.-Panel Name & Ckt #). Circuits that are to remain "As-Is" shall be clearly indicated in the panel box & circuit directory & on the plans. Any circuits to "Critical Items" (i.e.- security, Fire Alarm, etc.) shall be espically noted & protected & noted on the plans.	
14	-	This contractor, once the existing wiring is exposed but prior to any removal, shall create an "Pre-Demo Field Drawing(s)" showing the existing layouts, wireing, sizes, etc.. Provide copies to the Owner, Archt & Engineer.	
15	-	This contractor shall, once the existing wiring is exposed but prior to any removal, label-mark the existing wiring & related. Where wiring of will be removed, mark same close to each cut location on the remaining work.	
16	-	Where work is to be removed, the electrical conductors and devices shall be completely removed from device-to-device. The conduits & boxes may remain abandoned where they do not interfere with other existing or new work. Modify panel directories and drawings to reflect any modified conditions.	
17	-	Any removed materials shall become the property of the contractor and shall be removed from the site. Proper disposal is the responsibility of the contractor.	
18	-	Where circuits are broken, or modified, the continuity of down-stream wiring shall be maintained. Provide any new work necessary to maintain continuity.	
19	-	Existing conduits and raceways may be reused if they are in good condition and adequate size. Clean and swab-out raceway prior to installing new wiring.	
20	-	Any existing circuits, devices, and fixtures being reused shall be checked by the contractor for good condition and proper working order.	
21	-	Any over-current-protective devices (fuses/breakers) that are replaced or added to existing equipment shall meet or exceed the ratings and interrupting ratings for the existing equipment and be listed as compatible for that equipment by the equipment manufacturer.	
22	-	Generally, the circuiting shown shall go to the panel and circuit as indicated. However, where existing circuits are being reused and conflicts with new circuits numbers occur, the new circuits may be shifted to other circuit numbers in that panel. Circuit balancing, shared neutrals, and phasing shall be adjusted as necessary to maintain circuit integrity.	
23	-	Label all work with circuit numbers at junction boxes, pull boxes, etc. Update each panel directory, label panels, disconnects and all equipment, both new & existing. Maintain an accurate set of As-Built drawings and equipment schedules.	
24	-	Any existing lighting fixtures being reused shall be thoroughly cleaned and relamped with new lamps to provide uniform lamp types between new and existing fixtures. Lamps shall be of the energy saving type.	
25	-	After the completion of the circuit work, the contactor shall field document the final loads of every panel, feeder, distribution equipment and service which will be affected by load addition(s), modification(s) or change(s), by taking actual Amperage reading with a "TrueRMS Ammeter. Use schedules to record the data, including date, time, personnel name(s) & weather & temperature. Distribute to Owner, Architect & Engineer as record data	
26	-	Alternate Power Sources (APS) (i.e.- Generators, UPS, etc.): Where APS are present, their output readings (Voltages, Phase, Amperage, kW, kVA, etc) shall be recorded (with owners assistance), documented & distributed to Owner, Architect & Engineer as record data. This shall be done under operational load, prior to the start of the project work and once work is fully completed.	
-		- - - - -	
		End Of Electrical Criteria - Existing Condiltions & Demolition	

Project: **LaGrange Police Dept 2019 Mods**	**GEB** Schd	**LaGrange, GA. 30240** City,St.	
Gen Nt 1: **Existing, Remaining & Reused - Verify Exist Loads Remaining**	*Volt- LL* **240**	*Enclosure-Mtg:* NEMA 1	Wall Surf Mtd.
Gen Nt 2: **Provide New Matching Type Devices As May Be Required.**	*Volt- LN* **120**	*Cover & Door:* Exist	
Gen Nt 3: **Warning: 240D-120V, 3P-4W, Delta Hi-Leg (B-Phs-Orange)**	*Phs.* **3** *W.* **4**	*OCP Types:* Main - MCCB-60C/75C	Branch- MCCB, 60C/75C Lugs
Gen Nt 4: **Warning: Gen Set Source> 208Y120V, 3Phs, 4Wire**	*Buss Amps* **225, 100A-Fd**	*All Busing:* CU or AL	100% N & G Busing
Gen Nt 5: Verify Existing Ckts, Update Directory, Clean & Relabel Panel	*Main OCP* **MLO**	*Arc-Flash:* Labeled Per NEC & OSHA	
19-121 MADDOX GROUP INC. *Spare % =* 0%	*KA-AIC SCA* **Exist**	**19.08.12** *Date:*	**Const** *Status*

Rv	Nt	Description	Wiring	ID	W/VA	OCP	P	#	P	#	OCP	P	W/VA	ID	Wiring	Description	Nt	Rv
		Ltg- 300 Lvl	#10+ 10G	L	425	20	1	1	A	2	20	1	500	E	#12+ 12G	ERcpt- 200 Lv FACP		
		- - Hi-Leg - -	- - No 120-V Use - -		0	Sp	1	3	B	4	Sp	1	0		- - No 120-V Use - -	- - Hi-Leg - -		
		Ltg- 200 Lvl	#12+ 12G	L	450	20	1	5	C	6	100	-	4,200	P	See Riser	**Pnl GEA**		
		Ltg- 200 Lvl	#12+ 12G	L	420	20	1	7	A	8	-	2	4,200	P	- - -	SubFeed		
		- - Hi-Leg - -	- - No 120-V Use - -		0	Sp	1	9	B	10	Sp	1	0		- - No 120-V Use - -	- - Hi-Leg - -		
		Ltg- 200 Lvl	#12+ 12G	L	330	20	1	11	C	12	100	-	6,700	P	See Riser	**Pnl GEC**		
		Ltg- 100 Lvl	#10+ 10G	L	345	20	1	13	A	14	-	2	6,300	P	- - -	SubFeed		
		- - Hi-Leg - -	- - No 120-V Use - -		0	Sp	1	15	B	16	Sp	1	0		- - No 120-V Use - -	- - Hi-Leg - -		
		Ltg- 100 Lvl	#10+ 10G	L	420	20	1	17	C	18	20	1	500	E	#12+ 12G	ERcpt- 200 Lv Access Pnl		
		Ltg- 100 Lvl	#10+ 10G	L	480	20	1	19	A	20	20	1	500	E	#12+ 12G	ERcpt- 200 Lv Security		
		- - Hi-Leg - -	- - No 120-V Use - -		0	Sp	1	21	B	22	Sp	1	0		- - No 120-V Use - -	- - Hi-Leg - -		
		Rcpt- 200 Lv Cubes	#10+ 10G	E	600	20	1	23	C	24	20	1	200	R	#12+ 12G	Rcpt- 200 Lv Off		
		Rcpt- 200 Lv Cubes	#10+ 10G	E	600	20	1	25	A	26	20	1	0		- - -	> Spare <		
		- - Hi-Leg - -	- - No 120-V Use - -		0	Sp	1	27	B	28	Sp	1	0		- - No 120-V Use - -	- - Hi-Leg - -		
		Rcpt- 200 Lv Cubes	#10+ 10G	E	600	20	1	29	C	30	20	1	1,300	E	#10+ 10G	Rcpt- 200 Lv Cubes		
		Rcpt- 200 Lv Cubes	#10+ 10G	E	600	20	1	31	A	32	20	1	1,300	E	#10+ 10G	Rcpt- 200 Lv Cubes		
		- - Hi-Leg - -	- - No 120-V Use - -		0	Sp	1	33	B	34	Sp	1	0		- - No 120-V Use - -	- - Hi-Leg - -		
		Rcpt- 200 Lv Cubes	#10+ 10G	E	1,300	20	1	35	C	36	20	1	1,200	E	#10+ 10G	Rcpt- 300 Lv		
		Rcpt- 200 Lv Cubes	#10+ 10G	E	1,300	20	1	37	A	38	20	1	900	E	#10+ 10G	Rcpt- 300 Lv		
		- - Hi-Leg - -	- - No 120-V Use - -		0	Sp	1	39	B	40	Sp	1	0		- - No 120-V Use - -	- - Hi-Leg - -		
		Rcpt- 300 Lv	#10+ 10G	E	200	20	1	41	C	42	20	1	200	E	#10+ 10G	Rcpt- 300 Lv		

Nt# 01- HACR Listed & Labeled MCCB	Phs- A 49.5 %	129 A	17,870 VA	18.3 KVA Facotred End Use	44 A
Nt# 02- Not Used	Phs- B 0.0 %	0 A	0 VA	19.1 KVA Pass Thru Load	46 A
Nt# 03- Not Used	Phs- C 50.5 %	131 A	18,200 VA	0.0 KVA Spare	0 A
Nt# 04- Not Used	**Summary =**	**87 A**	**36,070 VA**	**37.4 KVA Total**	**90 A**

Project: **LaGrange Police Dept 2019 Mods**	**M2D** Schd	**LaGrange, GA. 30240** City,St.	
Gen Nt 1: - - - -	*Volt- LL* **240**	*Enclosure-Mtg:* NEMA 1	Wall Surf Mtd.
Gen Nt 2: - - - -	*Volt- LN* **120**	*Cover & Door:* Exist	
Gen Nt 3: **Warning: 240D-120V, 3P-4W, Delta Hi-Leg (B-Phs-Orange)**	*Phs.* **3** *W.* **3**	*OCP Types:* Main - MCCB-60C/75C	Branch- MCCB, 60C/75C Lugs
Gen Nt 4: - - - -	*Buss Amps* **225**	*All Busing:* CU or AL	100% N & G Busing
Gen Nt 5: **New Panel, 3-Phs, 3-Wire**	*Main OCP* **MLO**	*Arc-Flash:* Labeled Per NEC & OSHA	
19-121 MADDOX GROUP INC. *Spare % =* 0%	*KA-AIC SCA* **65**	**19.08.12** *Date:*	**Const** *Status*

Rv	Nt	Description	Wiring	ID	W/VA	OCP	P	#	P	#	OCP	P	W/VA	ID	Wiring	Description	Nt	Rv
		HP-08, 3.0T	2# 10+ 10G	C	2,148	35	-	1	A	2	50	-	5,820	G	2# 8+ 10G	**FCU-08, 8.0 KwHt**		
		240V, 1Phs, 22.1 MCA	DS-30A,2P,G,N3R	C	2,148	-	2	3	B	4	-	2	5,820	G	DS-60A,2P,G,N1	240V, 1Phs, 48.5 MCA		
		HP-09, 3.5T	2# 10+ 10G	C	2,688	40	-	5	C	6	50	-	5,820	G	2# 8+ 10G	**FCU-09, 8.0 KwHt**		
		240V, 1Phs, 27.6 MCA	DS-60A,2P,G,N3R	C	2,688	-	2	7	A	8	-	2	5,820	G	DS-60A,2P,G,N1	240V, 1Phs, 48.5 MCA		
		HP-10, 5.0T	2# 8+ 10G	C	3,312	50	-	9	B	10	60	-	5,820	G	2# 6+ 10G	**FCU-10, 10 kW Ht**		
		240V, 1Phs, 34.2 MCA	DS-60A,2P,G,N3R	C	3,312	-	2	11	C	12	-	2	5,820	G	DS: 60A,2P,N1	240V, 1Phs, 58.5 MCA		
		HP-11, 3.0T	2# 10+ 10G	C	2,148	35	-	13	A	14	50	-	5,820	G	2# 8+ 10G	**FCU-11, 8.0 KwHt**		
		240V, 1Phs, 22.1 MCA	DS-30A,2P,G,N3R	C	2,148	-	2	15	B	16	-	2	5,820	G	DS-60A,2P,G,N1	240V, 1Phs, 48.5 MCA		
		HP-12, 1.0T DL	2# 10+ 10G	C	1,752	15	-	17	C	18	Sp	1	0		- - -	< Space Only >		
		240V, 1Phs, 12.0 MCA	DS-30A,2P,G,N3R	C	1,752	-	2	19	A	20	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	21	B	22	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	23	C	24	Sp	1	0		- - -	< Space Only >		
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		< Space Only >	- - -		0	Sp	1	37	A	38	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	39	B	40	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	41	C	42	Sp	1	0		- - -	< Space Only >		

Nt# 01- HACR Listed & Labeled MCCB	Phs- A 37.1 %	189 A	26,196 VA	73.2 KVA Facotred End Use	176 A
Nt# 02- Not Used	Phs- B 35.5 %	181 A	25,068 VA	0.0 KVA Pass Thru Load	0 A
Nt# 03- Not Used	Phs- C 27.4 %	140 A	19,392 VA	0.0 KVA Spare	0 A
Nt# 04- Not Used	**Summary =**	**170 A**	**70,656 VA**	**73.2 KVA Total**	**176 A**

Project: **LaGrange Police Dept 2019 Mods**	**GEA** Schd	**LaGrange, GA. 30240** City,St.	
Gen Nt 1: - - - -	*Volt- LL* **240**	*Enclosure-Mtg:* NEMA-1	Wall Surf Mtd.
Gen Nt 2: - - - -	*Volt- LN* **120**	*Cover & Door:* Door-In-Door, With Locks	
Gen Nt 3: **Warning: 240D-120V, 3P-4W, Delta Hi-Leg (B-Phs-Orange)**	*Phs.* **1** *W.* **3**	*OCP Types:* Main - MCCB-60C/75C	Branch- MCCB, 60C/75C Lugs
Gen Nt 4: - - - -	*Buss Amps* **100**	*All Busing:* CU or AL	100% N & G Busing
Gen Nt 5: **New Panel, Generator Power System, 100 Lvl**	*Main OCP* **MLO**	*Arc-Flash:* Labeled Per NEC & OSHA	
19-121 MADDOX GROUP INC. *Spare % =* 15%	*KA-AIC SCA* **45**	**19.08.12** *Date:*	**Const** *Const*

Rv	Nt	Description	Wiring	ID	W/VA	OCP	P	#	P	#	OCP	P	W/VA	ID	Wiring	Description	Nt	Rv
		Rcpt- 100 Lv Cubes	#10+ 10G	R	800	20	1	1	A	2	20	1	200	R	#12+ 12G	Rcpt- 100 Lv Offs		
		Rcpt- 100 Lv Cubes	#10+ 10G	E	800	20	1	3	C	4	20	1	200	R	#12+ 12G	Rcpt- 100 Lv Offs		
		Rcpt- 100 Lv Cubes	#10+ 10G	R	800	20	1	5	A	6	20	1	1,200	R	#12+ 12G	Rcpt- 100 Lv Offs		
		Rcpt- 100 Lv Cubes	#10+ 10G	E	800	20	1	7	C	8	20	1	1,200	R	#12+ 12G	Rcpt- 100 Lv Offs		
		> Spare <	- - -		0	20	1	9	A	10	20	1	1,200	R	#12+ 12G	Rcpt- 100 Lv Offs		
		> Spare <	- - -		0	20	1	11	C	12	20	1	1,200	R	#12+ 12G	Rcpt- 100 Lv Offs		
		> Spare <	- - -		0	20	1	13	A	14	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	15	C	16	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	17	A	18	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	19	C	20	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	21	A	22	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	23	C	24	20	1	0		- - -	> Spare <		
		< Space Only >	- - -		0	Sp	1	25	A	26	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	27	C	28	Sp	1	0		- - -	< Space Only >		
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		< Space Only >	- - -		0	Sp	1	37	A	38	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	39	C	40	Sp	1	0		- - -	< Space Only >		

Nt# 01- HACR Listed & Labeled MCCB	*Phs* A 50.0 %	**35** A	4,200 VA	8.8 KVA Facotred End Use	37 A
Nt# 02- Not Used	*Phs* C 50.0 %	**35** A	4,200 VA	0.0 KVA Pass Thru Load	0 A
Nt# 03- Not Used	**Summary =**	**35 A**	**8,400 VA**	1.3 KVA Spare	6 A
Nt# 04- Not Used				**10.1 KVA Total**	**42 A**

Project: **LaGrange Police Dept 2019 Mods**	**L1M** Schd	**LaGrange, GA. 30240** City,St.	
Gen Nt 1: - - - -	*Volt- LL* **240**	*Enclosure-Mtg:* NEMA 1	Wall Surf Mtd.
Gen Nt 2: - - - -	*Volt- LN* **120**	*Cover & Door:* Exist	
Gen Nt 3: **Warning: 240D-120V, 3P-4W, Delta Hi-Leg (B-Phs-Orange)**	*Phs.* **3** *W.* **3**	*OCP Types:* Main - MCCB-60C/75C	Branch- MCCB, 60C/75C Lugs
Gen Nt 4: - - - -	*Buss Amps* **400**	*All Busing:* CU or AL	100% N & G Busing
Gen Nt 5: **New Panel, 3-Phs, 3-Wire**	*Main OCP* **MLO**	*Arc-Flash:* Labeled Per NEC & OSHA	
19-121 MADDOX GROUP INC. *Spare % =* 0%	*KA-AIC SCA*	**19.08.12** *Date:*	**Const** *Status*

Rv	Nt	Description	Wiring	ID	W/VA	OCP	P	#	P	#	OCP	P	W/VA	ID	Wiring	Description	Nt	Rv
		HP-01, 2.5T	2# 12+ 12G	C	1,752	30	-	1	A	2	50	-	5,820	G	2# 8+ 10G	**FCU-01, 8.0 KwHt**		
		240V, 1Phs, 18.1 MCA	DS-30A,2P,G,N3R	C	1,752	-	2	3	B	4	-	2	5,820	G	DS-60A,2P,G,N1	240V, 1Phs, 48.5 MCA		
		HP-02, 3.0T	2# 10+ 10G	C	2,148	35	-	5	C	6	50	-	5,820	G	2# 8+ 10G	**FCU-02, 8.0 KwHt**		
		240V, 1Phs, 22.1 MCA	DS-30A,2P,G,N3R	C	2,148	-	2	7	A	8	-	2	5,820	G	DS-60A,2P,G,N1	240V, 1Phs, 48.5 MCA		
		HP-03, 1.5T	2# 12+ 12G	C	1,140	20	-	9	B	10	30	-	5,820	G	2# 10+ 10G	**FCU-03, 5.0 KwHt**		
		240V, 1Phs, 11.8 MCA	DS-30A,2P,G,N3R	C	1,140	-	2	11	C	12	-	2	5,820	G	DS-30A,2P,G,N1	240V, 1Phs, 28.4 MCA		
		HP-04, 2.0T	2# 12+ 12G	C	1,596	25	-	13	A	14	30	-	5,820	G	2# 10+ 10G	**FCU-04, 5.0 KwHt**		
		240V, 1Phs, 16.5 MCA	DS-30A,2P,G,N3R	C	1,596	-	2	15	B	16	-	2	5,820	G	DS-30A,2P,G,N1	240V, 1Phs, 28.4 MCA		
		HP-05, 4.0T	2# 10+ 10G	C	2,760	40	-	17	C	18	50	-	5,820	G	2# 8+ 10G	**FCU-05, 8.0 KwHt**		
		240V, 1Phs, 28.5 MCA	DS-60A,2P,G,N3R	C	2,760	-	2	19	A	20	-	2	5,820	G	DS-60A,2P,G,N1	240V, 1Phs, 48.5 MCA		
		HP-06, 3.5T	2# 10+ 10G	C	2,688	40	-	21	B	22	50	-	5,820	G	2# 8+ 10G	**FCU-06, 8.0 KwHt**		
		240V, 1Phs, 27.6 MCA	DS-60A,2P,G,N3R	C	2,688	-	2	23	C	24	-	2	5,820	G	DS-60A,2P,G,N1	240V, 1Phs, 48.5 MCA		
		HP-07, 1.5T	2# 12+ 12G	C	1,140	20	-	25	A	26	30	-	5,820	G	2# 10+ 10G	**FCU-07, 5.0 KwHt**		
		240V, 1Phs, 11.8 MCA	DS-30A,2P,G,N3R	C	1,140	-	2	27	B	28	-	2	5,820	G	DS-30A,2P,G,N1	240V, 1Phs, 28.4 MCA		
		HP-E01, 4.0T	2# 10+ 10G	C	2,760	40	-	29	C	30	50	-	5,820	G	2# 8+ 10G	**FCU-E01, 8.0 KwHt**		
		240V, 1Phs, 28.5 MCA	DS-60A,2P,G,N3R	C	2,760	-	2	31	A	32	-	2	5,820	G	DS-60A,2P,G,N1	240V, 1Phs, 48.5 MCA		
		HP-13, 1.0T DL	2# 10+ 10G	C	1,752	15	-	33	B	34	Sp	1	0		- - -	< Space Only >		
		240V, 1Phs, 12.0 MCA	DS-30A,2P,G,N3R	C	1,752	-	2	35	C	36	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	37	A	38	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	39	B	40	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	41	C	42	Sp	1	0		- - -	< Space Only >		

Nt# 01- HACR Listed & Labeled MCCB	Phs- A 36.6 %	340 A	47,076 VA	131.1 KVA Facotred End Use	315 A
Nt# 02- Not Used	Phs- B 30.5 %	283 A	39,168 VA	0.0 KVA Pass Thru Load	0 A
Nt# 03- Not Used	Phs- C 32.9 %	306 A	42,348 VA	0.0 KVA Spare	0 A
Nt# 04- Not Used	**Summary =**	**309 A**	**128,592 VA**	**131.1 KVA Total**	**315 A**

Project: **LaGrange Police Dept 2019 Mods**	**GEC** Schd	**LaGrange, GA. 30240** City,St.	
Gen Nt 1: - - - -	*Volt- LL* **240**	*Enclosure-Mtg:* NEMA-1	Wall Surf Mtd.
Gen Nt 2: - - - -	*Volt- LN* **120**	*Cover & Door:* Door-In-Door, With Locks	
Gen Nt 3: **Warning: 240D-120V, 3P-4W, Delta Hi-Leg (B-Phs-Orange)**	*Phs.* **1** *W.* **3**	*OCP Types:* Main - MCCB-60C/75C	Branch- MCCB, 60C/75C Lugs
Gen Nt 4: - - - -	*Buss Amps* **100**	*All Busing:* CU or AL	100% N & G Busing
Gen Nt 5: **New Panel, Generator Power System, 300 Lvl**	*Main OCP* **MLO**	*Arc-Flash:* Labeled Per NEC & OSHA	
19-121 MADDOX GROUP INC. *Spare % =* 15%	*KA-AIC SCA* **45**	**19.08.12** *Date:*	**Const** *Const*

Rv	Nt	Description	Wiring	ID	W/VA	OCP	P	#	P	#	OCP	P	W/VA	ID	Wiring	Description	Nt	Rv
		Rcpt- 300 Lv Cubes	#10+ 10G	R	800	20	1	1	A	2	20	1	800	E	#10+ 10G	Rcpt- 300 Lv Cubes		
		Rcpt- 300 Lv Cubes	#10+ 10G	E	800	20	1	3	C	4	20	1	800	R	#10+ 10G	Rcpt- 300 Lv Cubes		
		Rcpt- 300 Lv Cubes	#10+ 10G	R	800	20	1	5	A	6	20	1	800	E	#10+ 10G	Rcpt- 300 Lv Cubes		
		Rcpt- 300 Lv Cubes	#10+ 10G	E	800	20	1	7	C	8	20	1	800	R	#10+ 10G	Rcpt- 300 Lv Cubes		
		Rcpt- 300 Lv Ph Rm	#12+ 12G	R	500	20	1	9	A	10	20	1	600	E	#10+ 10G	Rcpt- 300 Lv War Rm		
		Rcpt- 300 Lv Ph RM	#12+ 12G	R	500	20	1	11	C	12	20	1	800	R	#12+ 12G	Rcpt- 300 Lv Admin		
		Rcpt- 300 Lv Video Rm	#12+ 12G	E	1,800	20	1	13	A	14	20	1	600	R	#12+ 12G	Rcpt- 300 Lv Admin		
		Rcpt- 300 Lv Video Rm	#12+ 12G	E	1,800	20	1	15	C	16	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	17	A	18	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	19	C	20	20	1	0		- - -	> Spare <		
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		< Space Only >	- - -		0	Sp	1	39	C	40	Sp	1	0		- - -	< Space Only >		

Nt# 01- HACR Listed & Labeled MCCB	*Phs* A 51.5 %	**56** A	6,700 VA	14.9 KVA Facotred End Use	62 A
Nt# 02- Not Used	*Phs* C 48.5 %	**53** A	6,300 VA	0.0 KVA Pass Thru Load	0 A
Nt# 03- Not Used	**Summary =**	**54 A**	**13,000 VA**	2.2 KVA Spare	9 A
Nt# 04- Not Used				**17.1 KVA Total**	**71 A**

Project: **LaGrange Police Dept 2019 Mods**	**L1N** Schd	**LaGrange, GA. 30240** City,St.	
Gen Nt 1: - - - -	*Volt- LL* **240**	*Enclosure-Mtg:* NEMA-1	Wall Surf Mtd.
Gen Nt 2: - - - -	*Volt- LN* **120**	*Cover & Door:* Door-In-Door, With Locks	
Gen Nt 3: **Warning: 240D-120V, 3P-4W, Delta Hi-Leg (B-Phs-Orange)**	*Phs.* **1** *W.* **3**	*OCP Types:* Main - MCCB-60C/75C	Branch- MCCB, 60C/75C Lugs
Gen Nt 4: - - - -	*Buss Amps* **100**	*All Busing:* CU or AL	100% N & G Busing
Gen Nt 5: **New Panel, 100 Lvl**	*Main OCP* **MLO**	*Arc-Flash:* Labeled Per NEC & OSHA	
19-121 MADDOX GROUP INC. *Spare % =* 15%	*KA-AIC SCA* **45**	**19.08.12** *Date:*	**Const** *Const*

Rv	Nt	Description	Wiring	ID	W/VA	OCP	P	#	P	#	OCP	P	W/VA	ID	Wiring	Description	Nt	Rv
		Mtr- Bay Door	#10+10G	R	1,000	20	1	1	A	2	20	1	1,600	R	#12+ 12G	Rcpt- Evidence Bays		
		Mtr- Bay Door	#10+10G	R	1,000	20	1	3	C	4	20	1	0		- - -	> Spare <		
		Mtr- Bay Door	#10+10G	R	1,000	20	1	5	A	6	20	1	900	R	#10+10G	Rcpt- Work Out Eq		
		Rcpt- Work Out	#10+10G	R	1,400	20	1	7	C	8	20	1	900	R	#10+10G	Rcpt- Work Out Eq		
		Rcpt- Work Out RR	#10+10G	R	200	20	1	9	A	10	20	1	900	R	#10+10G	Rcpt- Work Out Eq		
		Rcpt- Off & Shop	#10+10G	R	1,400	20	1	11	C	12	20	1	900	R	#10+10G	Rcpt- Work Out Eq		
		Rcpt- Off & Shop	#10+10G	R	1,400	20	1	13	A	14	20	1	200	R	#10+10G	Rcpt- Ded Shop Tool		
		Rcpt- Off & Evidence	#10+10G	R	1,400	20	1	15	C	16	20	1	200	R	#10+10G	Rcpt- Ded Shop Tool		
		Rcpt- Off & Evidence	#10+10G	R	1,400	20	1	17	A	18	20	1	200	R	#10+10G	Rcpt- Ded Shop Tool		
		> Spare <	- - -		0	20	1	19	C	20	20	1	200	R	#10+10G	Rcpt- Ded Shop Tool		
		> Spare <	- - -		0	20	1	21	A	22	20	1	200	R	#10+10G	Rcpt- Ded Shop Tool		
		> Spare <	- - -		0	20	1	23	C	24	20	1	200	R	#10+10G	Rcpt- Ded Shop Tool		
		< Space Only >	- - -		0	Sp	1	25	A	26	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	27	C	28	Sp	1	0		- - -	< Space Only >		
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		< Space Only >	- - -		0	Sp	1	35	C	36	Sp	1	0		- - -	< Space Only >		
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Nt# 01- HACR Listed & Labeled MCCB	*Phs* A 54.2 %	**75** A	9,000 VA	13.3 KVA Facotred End Use	55 A
Nt# 02- Not Used	*Phs* C 45.8 %	**63** A	7,600 VA	0.0 KVA Pass Thru Load	0 A
Nt# 03- Not Used	**Summary =**	**69 A**	**16,600 VA**	2.0 KVA Spare	8 A
Nt# 04- Not Used				**15.3 KVA Total**	**64 A**

Architect's Stamp

Signature Required

SMITH DESIGN GROUP, INC.
206 WEST HARALSON ST
LAGRANGE, GEORGIA 30240
706-882-5511
www.SDGarch.net

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maddoxgroup@comcast.net

TMG Job #: 19-121

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GEORGIA REGISTERED No 13254 PROFESSIONAL ENGINEER ROBERT M MADDOX 2019 08.12

THE MADDOX GROUP, INC.
DESIGN & ENGINEERING CONSULTANTS

Revisions

#	Date	Description

Project Title:

RENOVATIONS TO
LAGRANGE POLICE DEPT

100 West Haralson St.
LaGrange, GA. 30240

Sheet Title:

ELECTRICAL
SCHEDULES

Modified Date: 2019.08.12

SDG Job No: 1911

Issued Date: Bid & Permit 2019.08.12

Sheet: E-03

LOW-VOLTAGE RELAY PANEL SCHED.

19.08.12		LaGrange Police Dept 2019 Mods	Const
ID #	Rv #	LOW-VOLTAGE RELAY SWITCHING (LVRS) CX-HARDWIRED SYSTEM	Check Off
7.01	-	GENERAL - Providing complete Low-Voltage Switching System, consisting of LV Switching Panels with LV switching relays, completely pre-assembled & pre-wired with relays, power supply, controls and all components for a complete and properly operating system. Provide matching Hard-Wired LV switching devices, and controls.	
7.02	-	MANUFACTURER - The design is based on the products of Hubbell CX Lighting & Building Automation and shall be the manufacturer for the LV Relay Switching System.	
7.03	-	ALTERNATE MANUFACTURERS - Products of other manufacturers, providing the equivalent level of product quality, operation, functionality and features, shall be submitted as add / deduct to this manufacture for owner's considerations, complete with full product documentation and literature indicating complete compliance and performance.	
7.04	-	CODES & CERTIFICATIONS - All products shall be UL Listed, CSA approved, and comply with EEMAC / NEMA standards & NEC.	
7.05		WARRANTY - The system manufacturer shall warrant the complete system with a Full-Service-Warranty on all parts and labor for a minimum of 10 Years.	
7.06		SUBMITTALS - Prepare & submit project specific product documentation, including but not limited to, manufacturer's qualifications & personnel contact information, component product data, complete relay & component schedules and matching wiring diagrams for field use in the proper installation of the system.	
7.07		RELAY PANELS - Provide pre-assembled 16 or 24 Pole relay panels, pre-finished steel with hinged & locking cover / door for surface of flush mounting. The interior shall divider for LV siring per code, control power transformer sized for 125% of the load, LV devices and controls as required.	
7.08		RELAYS - Provide relays as scheduled and required for proper operation. Relays shall be Heavy-Duty, Full Load Rated, UL-508 Labeled, HID, breaker snap-in style, mechanically latching type with a manual ON/OFF switch that display the switches' ON/OFF state. 1-Pole, 20 Amp relays rated at 120 & 277 VAC. 1-Pole, 30 Amp relays rated at 120, 277 & 347 VAC. 2-Pole 20-Amp relays shall be rate for up to 480 VAC. UL 508 short-circuit rating of 14,000 Amps. Rated for switching of incandescent, fluorescent, electronic ballast & HID loads. 3,000 Amps inrush capability. Relays shall have a 5 year warranty.	
7.09		CONTROLLER- Solid-state, programmable relay controller to receive all control inputs and control all ouptus to relays. Controller shall include Astronomical Schedule 365-Day Time Clock-Scheduler, Automatic Daylight Saving Time & Leap-Year Compension. Controller to have built-in keypad for programming & non-volatile memory.	
7.10		LCD USER INTERFACE- Provide front-mounted LCD display with touch-button interface device with instructions.	
7.11		CONTROL WIRING- Hard-Wired LV Two-Wire Per Switch Or Input Control Device	
7.12		SWITCHING STATIONS- Provide switching devices where shown and / or required. Devices shall be matching two-wire type. Each Switch Station shall provide for up to 6 Pilot-Light buttons. Devices located in wet locations shall be Wet-Location listed & labeled. Devices shall be of same manufacturer as the LV system manufacturer U.N.O.	
7.13		WALL SWITCH / LOCAL USE VANDAL RESISTIANT - Provide where shown or required heavy-duty, vandal resistant wet-location labeled switch & cover plate with tamper resistant screws. Engrave cover plate with switch function (i.e. lights). Douglas WR-8321 Series	
7.14		WALL SWITCH / KEY OPERATED - Provide where shown or required heavy-duty, key-operated switch & cover plate. Engrave cover plate with switch function (i.e. lights).	
7.15		WALL MASTER / GROUP SWITCHES - Provide where shown or required heavy-duty, multi-gang group mounted rocker type switches, complete with all switches, mounting hardware & cover plates. Label switches with their function (i.e. lights).	
7.16		INSTALLATION PER MANUFACTURER, NEC, NEIS - The LVRS shall be installed in accordance with the manufacturer's written documentation, NEC & NEIS. The manufacturer's factory authorized & trained agent shall provide installation guidance and assistance and system start-up.	
7.17		INSTALLATION CABLING - All wiring shall be CU in conduit or Type MC cable unless otherwise noted. The wire size shall be per the manufacturer. Wire size shall be increased to the next larger standard size for runs over 100 Feet.	-
7.18		INSTALLED MANUFACTURERS CHEK-OUT & CERTIFICATION: Prior to energizing the system, the Manufacturers Authorized Agent, shall perform and On-Site Check-Out of the completed system and provide written certification that the components and installation are acceptable, that the system is fully programmed / scheduled and fully functional & properly operating.	
7.19		INSTALLED DOCUMENTATION - Provide three sets of As-Installed Field Record document of the completed system, showing all equipment, components & wiring. Include complete manufacturer & product documentation and warranty forms.	
7.20		INSTALLATION DEMONSTARTION & TRANING - The complete system(s) shall be fully demonstrated to the Owners Representative(s) to show full compliance and proper operation. Train the Owner's Personnel in the proper operation, programming and maintenance of the system.	
-			-

End Of Low Voltage Relay Switching Systems

LOW-VOLTAGE RELAY PANEL (LVRP) SCHEDULE

Proj	LaGrange Police Dept 2019 Mods		RPA - Pnl
Place	LaGrange, GA. 30240		19.08.12 - Issued
For	Smith Design Group, Inc		Const - Status
Basis	Hubbell Relay Systems - LX Seires		NEMA-1R - Encls

Rv#	Circuit Load Description	Rly #	Rly Type	Rly Amps	Rly Pole	PNL	CKT #	Master Ctrl- LMx	Group Ctrl- LGx	Local Ctrl- LLx	Specific Item Nt #
	Ltg- 300 Lvl Halls	01	-	20	1	LSA	01	-	-	LL	-
	Ltg- 300 Lvl Halls	02	-	20	1	LSA	03	-	-	LL	-
	Ltg- 200 Lvl Open Off	03	-	20	1	LSA	05	-	-	LL	-
	Ltg- 200 Lvl Halls	04	-	20	1	LSA	07	-	-	LL	-
	Ltg- 200 Lvl Lobby	05	-	20	1	LSA	09	-	-	LL	-
	Ltg- 100 Lvl Halls	06	-	20	1	LSA	11	-	-	LL	-
	Ltg- 100 Lvl Halls	07	-	20	1	LSA	13	-	-	LL	-
	Ltg- 100 Lvl Halls	08	-	20	1	LSA	15	-	-	LL	-
	Ltg- 100 Lvl	09	-	20	1	LSA	17	-	-	LL	-
	> Spare <	10	-	20	1	LSA	19	-	-	-	-
	> Spare <	11	-	20	1	LSA	21	-	-	-	-
	< Space >	12	-	20	1	LSA	23	-	-	-	-
	< Space >	25	-	20	1	LSA	25	-	-	-	-
	< Space >	27	-	20	1	LSA	27	-	-	-	-
	< Space >	29	-	20	1	LSA	29	-	-	-	-

Rv#	Circuit Load Description	Rly #	Rly Type	Rly Amps	Rly Pole	PNL	CKT #	Master Ctrl- LMx	Group Ctrl- LGx	Local Ctrl- LLx	Specific Item Nt #
	Ltg- 300 Extr	13	-	20	1	LSA	02	-	LA	-	-
	Ltg- 200 Extr	14	-	20	1	LSA	04	-	LA	-	-
	Ltg- 100 Extr	15	-	20	1	LSA	06	-	LA	-	-
	Ltg- 100 Extr	16	-	20	1	LSA	08	-	LA	-	-
	Ltg- Pk Deck	17	-	20	1	LSA	10	-	LA	-	-
	Ltg- Pk Deck	18	-	20	1	LSA	12	-	LA	-	-
	> Spare <	19	-	20	1	LSA	14	-	-	-	-
	> Spare <	20	-	20	1	LSA	16	-	-	-	-
	Ltg- 100 Lvl	21	-	20	1	LSA	18	-	-	LL	-
	Ltg- 100Lvl	22	-	20	1	LSA	20	-	-	LL	-
	> Spare <	23	-	20	1	LSA	22	-	-	-	-
	< Space >	24	-	Sp	1	LSA	24	-	-	-	-
	< Space >	26	-	Sp	1	LSA	26	-	-	-	-
	< Space >	28	-	Sp	1	LSA	28	-	-	-	-
	< Space >	30	-	Sp	1	LSA	30	-	-	-	-

Control Function & Device Type

Rv#	Control Function Description	ID	Mtg	Device Type	Control Device Notes
	Master All On-Off	LMx	Wall	LV Push-Button	
	Group On-Off	LGx	Wall	LV Push-Button	
	Astro- Time Based Switching	LAx	Pnl	Astro-Schd	
	0-60 Min. Manual Over-Ride	LTx	Wall	LV Push-Button	

Rv#	Control Function Description	ID	Mtg	Device Type	Control Device Notes
	Local On/ Off	LLx	Wall	LV Push-Button	
	Occupancy On-Off	LOx	Wall	Occ. Sensor	
	Sun Day-Light Control	LSx	Clg	Day Lt Sensor	
	Dimming Control	LDx	Wall	Dimmer- Manual	

Device Type And Abbrevations

AST	Astronomic Schedule Timer	D	Dimmer Relay
DayLt	Day Light Sensor	E	Electrically Held Relay
LVB	Low-Voltage Button Station	L	Latching Relay
LVD	Low-Voltage Dimmer Station	-	- - -

General Notes Applicabel To All

G01	Provide A Complete & Properly Functioning System.
G02	The Complete System(s) With All Comonets, Design, Etc. Shall Be Of Single Manufacturer Responsibi
G03	Provide Complete Product & Wiring Submittals For Review
G04	Provide All Enviromental Return Air Cabling & Wiring Per Manufacturer.
G05	Program System & Insturct User On Proper Operation.
G06	
- -	- - -

By: MADDOX GROUP INC. End Of Schedule - See Control Device Schedule Also 19-121

Project:	LaGrange Police Dept 2019 Mods	LSA Schd		LaGrange, GA. 30240 City,St.	
Gen Nt 1:	- - - -	Volt- LL 240	Enclosure-Mtg:	NEMA-1	Wall Surf Mtd.
Gen Nt 2:	- - - -	Volt- LN 120	Cover & Door:	Door-In-Door, With Locks	
Gen Nt 3:	Warning: 240D-120V, 3P-4W, Delta Hi-Leg (B-Phs-Orange)	Phs. 1 W. 3	OCP Types:	Main - MCCB-60C/75C	Branch- MCCB, 60C/75C Lugs
Gen Nt 4:	- - - -	Buss Amps 225	All Busing:	CU or AL	100% N & G Busing
Gen Nt 5:	New Panel Adjacent Relay Panel	Main OCP MLO	Arc-Flash:	Labeled Per NEC & OSHA	
19-121	MADDOX GROUP INC.	Spare % = 15% KA-AIC SCA 65	19.08.12 Date:	Const Const	

Rv	Nt	Description	Wiring	ID	W/VA	OCP	P	#	P	#	OCP	P	W/VA	ID	Wiring	Description	Nt	Rv
	2	Ltg- 300 Lvl Halls	#12+ 12G	L	250	20	1	01	A	02	20	1	500	L	#10+ 10G	Ltg- 300 Extr	2	
	2	Ltg- 300 Lvl Halls	#12+ 12G	L	250	20	1	03	C	04	20	1	900	L	#10+ 10G	Ltg- 200 Extr	2	
	2	Ltg- 200 Lvl Open Off	#12+ 12G	L	700	20	1	05	A	06	20	1	900	L	#10+ 10G	Ltg- 100 Extr	2	
	2	Ltg- 200 Lvl Halls	#12+ 12G	L	550	20	1	07	C	08	20	1	900	L	#10+ 10G	Ltg- 100 Extr	2	
	2	Ltg- 200 Lvl Lobby	#12+ 12G	L	1,100	20	1	09	A	10	20	1	1,200	L	#10+ 10G	Ltg- Pk Deck	2	
	2	Ltg- 100 Lvl Halls	#10+ 10G	L	405	20	1	11	C	12	20	1	1,200	L	#10+ 10G	Ltg- Pk Deck	2	
	2	Ltg- 100 Lvl Halls	#10+ 10G	L	315	20	1	13	A	14	20	1	0		- - -	> Spare <	2	
	2	Ltg- 100 Lvl Halls	#10+ 10G	L	650	20	1	15	C	16	20	1	0		- - -	> Spare <	2	
	2	Ltg- 100 Lvl	#10+ 10G	L	1,660	20	1	17	A	18	20	1	1,090	L	#10+ 10G	Ltg- 100 Lvl	2	
		> Spare <	- - -		0	20	1	19	C	20	20	1	1,000	L	#10+ 10G	Ltg- 100Lvl	2	
		> Spare <	- - -		0	20	1	21	A	22	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	23	C	24	20	1	0		- - -	> Spare <		
		< Space Only >	- - -		0	Sp	1	25	A	26	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	27	C	28	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	29	A	30	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	31	C	32	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	33	A	34	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	35	C	36	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	37	A	38	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	39	C	40	Sp	1	0		- - -	< Space Only >		

N## 01-	HACR Listed & Labeled MCCB	Phs-A = 56.9 %	64	A	7,715 VA	17.0 KVA Facotred End Use	71 A
N## 02-	Thru Relay Pnl	Phs-C = 43.1 %	49	A	5,855 VA	0.0 KVA Pass Thru Load	0 A
N## 03-	Not Used	Summary =	57	A	13,570 VA	2.5 KVA Spare	11 A
N## 04-	Not Used					19.5 KVA Total	81 A

Project:	LaGrange Police Dept 2019 Mods	MB Schd		LaGrange, GA. 30240 City,St.	
Gen Nt 1:	Existing, Remaining & Reused - Verify Exist Loads Remaining	Volt- LL 240	Enclosure-Mtg:	NEMA-1	Wall Surf Mtd.
Gen Nt 2:	Provide New Matching Type Devices As May Be Required.	Volt- LN 120	Cover & Door:	Door-In-Door, With Locks	
Gen Nt 3:	Warning: 240D-120V, 3P-4W, Delta Hi-Leg (B-Phs-Orange)	Phs. 1 W. 3	OCP Types:	Main - MCCB-60C/75C	Branch- MCCB, 60C/75C Lugs
Gen Nt 4:	Verify Existing Ckts, Update Directory, Clean & Relabel Panel	Buss Amps 100	All Busing:	CU or AL	100% N & G Busing
Gen Nt 5:	- - -	Main OCP MLO	Arc-Flash:	Labeled Per NEC & OSHA	
19-121	MADDOX GROUP INC.	Spare % = 0% KA-AIC SCA Exist	19.08.12 Date:	Const Const	

Rv	Nt	Description	Wiring	ID	W/VA	OCP	P	#	P	#	OCP	P	W/VA	ID	Wiring	Description	Nt	Rv
		> Spare <	- - -		0	20	1	01	A	02	20	1	516	H	Verify Exist	FCU-15, 4.3A		
		> Spare <	- - -		0	20	1	03	C	04	20	1	528	H	Verify Exist	FCU-16, 4.4A		
		> Spare <	- - -		0	20	1	05	A	06	20	1	516	H	Verify Exist	FCU-17, 4.3A		
		> Spare <	- - -		0	20	1	07	C	08	20	1	624	H	Verify Exist	FCU-18, 5.25A		
		> Spare <	- - -		0	20	1	09	A	10	20	1	528	H	Verify Exist	FCU-19, 4.4A		
		> Spare <	- - -		0	20	1	11	C	12	20	1	516	H	Verify Exist	FCU-20, 4.3A		
		> Spare <	- - -		0	20	1	13	A	14	20	1	528	H	Verify Exist	FCU-21, 4.4A		
		> Spare <	- - -		0	20	1	15	C	16	20	1	528	H	Verify Exist	FCU-22, 4.4A		
		> Spare <	- - -		0	20	1	17	A	18	20	1	528	H	Verify Exist	FCU-23, 4.4A		
		> Spare <	- - -		0	20	1	19	C	20	20	1	624	H	Verify Exist	FCU-24, 5.25A		
		> Spare <	- - -		0	20	1	21	A	22	20	1	930	H	Verify Exist	FCU-25, 7.75A		
		> Spare <	- - -		0	20	1	23	C	24	20	1	930	H	Verify Exist	FCU-26, 7.75A		
		> Spare <	- - -		0	20	1	25	A	26	20	1	0		- - -	Ckt Demo > Spare		
		> Spare <	- - -		0	20	1	27	C	28	20	1	0		- - -	Ckt Demo > Spare		
		> Spare <	- - -		0	20	1	29	A	30	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	31	C	32	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	33	A	34	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	35	C	36	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	37	A	38	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	39	C	40	20	1	0		- - -	> Spare <		

N## 01-	HACR Listed & Labeled MCCB	Phs-A = 48.6 %	30	A	3,546 VA	9.1 KVA Facotred End Use	38 A
N## 02-	Not Used	Phs-C = 51.4 %	31	A	3,750 VA	0.0 KVA Pass Thru Load	0 A
N## 03-	Not Used	Summary =	30	A	7,296 VA	0.0 KVA Spare	0 A
N## 04-	Not Used					9.1 KVA Total	38 A

Project:	LaGrange Police Dept 2019 Mods	LCA Schd		LaGrange, GA. 30240 City,St.	
Gen Nt 1:	Existing, Remaining & Reused - Verify Exist Loads Remaining	Volt- LL 240	Enclosure-Mtg:	NEMA-1	Wall Surf Mtd.
Gen Nt 2:	Provide New Matching Type Devices As May Be Required.	Volt- LN 120	Cover & Door:	Door-In-Door, With Locks	
Gen Nt 3:	Warning: 240D-120V, 3P-4W, Delta Hi-Leg (B-Phs-Orange)	Phs. 1 W. 3	OCP Types:	Main - MCCB-60C/75C	Branch- MCCB, 60C/75C Lugs
Gen Nt 4:	Verify Existing Ckts, Update Directory, Clean & Relabel Panel	Buss Amps 225	All Busing:	CU or AL	100% N & G Busing
Gen Nt 5:	- - -	Main OCP MLO	Arc-Flash:	Labeled Per NEC & OSHA	
19-121	MADDOX GROUP INC.	Spare % = 15% KA-AIC SCA Exist	19.08.12 Date:	Const Const	

Rv	Nt	Description	Wiring	ID	W/VA	OCP	P	#	P	#	OCP	P	W/VA	ID	Wiring	Description	Nt	Rv
		Lt- 300 Offices	# 12 +12G	L	900	20	1	01	A	02	20	1	0		- - -	> Spare <		
		Lt- 300 Offices	# 12 +12G	L	935	20	1	03	C	04	20	1	0		- - -	> Spare <		
		Lt- 300 Offices	# 12 +12G	L	675	20	1	05	A	06	20	1	600	R	# 12 +12G	Rcpt- Offices		
		Lt- 300 Offices	# 12 +12G	L	590	20	1	07	C	08	20	1	1,000	R	# 12 +12G	Rcpt- Offices		
		> Spare <	- - -		0	20	1	09	A	10	20	1	1,000	R	# 12 +12G	Rcpt- Offices		
		> Spare <	- - -		0	20	1	11	C	12	20	1	1,000	R	# 12 +12G	Rcpt- Offices		
		> Spare <	- - -		0	20	1	13	A	14	20	1	1,200	R	# 12 +12G	Rcpt- Conf		
		> Spare <	- - -		0	20	1	15	C	16	20	1	1,200	R	# 12 +12G	Rcpt- Offices		
		Rcpt- Offices	#10+ 10G	R	400	20	1	17	A	18	20	1	1,000	R	# 12 +12G	Rcpt- Offices		
		Rcpt- Ded Copier	#10+ 10G	R	900	20	1	19	C	20	20	1	1,500	E	# 12 +12G	Rcpt- Offices		
		Rcpt- Offices	# 12 +12G	R	600	20	1	21	A	22	20	1	1,400	R	# 12 +12G	Rcpt- Offices		
		Rcpt- Offices	#10+ 10G	R	1,000	20	1	23	C	24	20	1	600	R	# 12 +12G	Rcpt- Offices		
		Rcpt- Offices	#10+ 10G	R	1,400	20	1	25	A	26	20	1	200	R	# 12 +12G	Rcpt- Jant GFCI		
		Rcpt- Offices	# 12 +12G	R	800	20	1	27	C	28	20	1	800	R	# 12 +12G	Rcpt- Offices		
		Rcpt- Offices	# 12 +12G	R	1,200	20	1	29	A	30	20	1	200	R	# 12 +12G	Rcpt- RR GFCI		
		Rcpt- Offices	# 12 +12G	R	1,000	20	1	31	C	32	20	1	200	R	# 12 +12G	Rcpt- RR GFCI		
		Rcpt- Offices	# 12 +12G	R	800	20	1	33	A	34	20	1	1,500	R	# 12 +12G	Rcpt- GFCI BrkRm		
		Rcpt- Offices	# 12 +12G	R	800	20	1	35	C	36	20	1	1,500	R	# 12 +12G	Rcpt- GFCI BrkRm		
		> Spare <	- - -		0	20	1	37	A	38	20	1	1,500	R	# 12 +12G	Rcpt- GFCI BrkRm		
		> Spare <	- - -		0	20	1	39	C	40	20	1	1,500	R	# 12 +12G	Rcpt- GFCI BrkRm		

N## 01-	HACR Listed & Labeled MCCB	Phs-A = 48.7 %	121	A	14,575 VA	23.4 KVA Facotred End Use	98 A
N## 02-	Not Used	Phs-C = 51.3 %	128	A	15,325 VA	0.0 KVA Pass Thru Load	0 A
N## 03-	Not Used	Summary =	125	A	29,900 VA	3.5 KVA Spare	15 A
N## 04-	Not Used					26.9 KVA Total	112 A

Architect's Stamp

Signature Required

SMITH DESIGN GROUP, INC.
206 WEST HARALSON ST
LAGRANGE, GEORGIA 30240
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www.SDGarch.net

9309 Seminole Road
Jonesboro, Georgai 30236
770 - 471 - 9076
maddoxgroup@comcast.net

GEORGIA REGISTERED No 13254 PROFESSIONAL ENGINEER ROBERT M MADDOX 8/15/19

TMG Job #: 19-121

Copywright -TMG- 2019

THE MADDOX GROUP, INC.
DESIGN & ENGINEERING CONSULTANTS

Revisions

#	Date	Description

Project Title:

RENOVATIONS TO LAGRANGE POLICE DEPT

100 West Haralson St.
LaGrange, GA. 30240

Sheet Title:

ELECTRICAL SCHEDULES

Modified Date: 2019.08.12

SDG Job No: 1911

Issued Date: Bid & Permit 2019.08.12

Sheet: E-04

MA — LaGrange Police Dept 2019 Mods — LaGrange, GA. 30240

Project: LaGrange Police Dept 2019 Mods | MA Schd | LaGrange, GA. 30240 City,St

Gen Nt 1: Existing, Remaining & Reused - Verify Exist Loads Remaining
Gen Nt 2: Provide New Matching Type Devices As May Be Required.
Gen Nt 3: Warning: 240D-120V, 3P-4W, Delta Hi-Leg (B-Phs-Orange)
Gen Nt 4: Verify Existing Ckts, Update Directory, Clean & Relabel Panel
Gen Nt 5: - - -

Volt- LL 240 | Volt- LN 120 | Phs. 1 W. 3 | Buss Amps 100 | Main OCP MLO
Enclosure-Mtg: NEMA-1 Wall Surf Mtd. | Cover & Door: Door-In-Door, With Locks | OCP Types: Main - MCCB-60C/75C Branch- MCCB, 60C/75C Lugs | All Busing: CU or AL 100% N & G Busing | Arc-Flash: Labeled Per NEC & OSHA

19-121 MADDOX GROUP INC. | Spare % = 15% | KA-AIC SCA Exist | 19.08.12 Date: | Const Const

Rv	Nt	Description	Wiring	ID	W/VA	OCP	P	#	P	#	OCP	P	W/VA	ID	Wiring	Description	Nt	Rv
		> Spare <	- - -		0	20	1	01	A	02	20	1	0		- - -	Ckt Demo		
		> Spare <	- - -		0	20	1	03	C	04	20	1	528	H	Verify Exist	FCU-02, 4.4A		
		Mech Ctrl Pnl	Verify Exist	H	500	20	1	05	A	06	20	1	516	H	Verify Exist	FCU-03, 4.3A		
		> Spare <	- - -		0	20	1	07	C	08	20	1	324	H	Verify Exist	FCU-04, 2.75A		
		Ckt Demo	- - -		0	20	1	09	A	10	20	1	528	H	Verify Exist	FCU-05, 4.45A		
		Boiler "B-01"	Verify Exist	H	500	20	1	11	C	12	20	1	528	H	Verify Exist	FCU-06, 4.45A		
		Ckt Demo	- - -		0	20	1	13	A	14	20	1	528	H	Verify Exist	FCU-07, 4.45A		
		> Spare <	- - -		0	20	1	15	C	16	20	1	324	H	Verify Exist	FCU-08, 2.75A		
		> Spare <	- - -		0	20	1	17	A	18	20	1	528	H	Verify Exist	FCU-09, 4.45A		
		> Spare <	- - -		0	20	1	19	C	20	20	1	324	H	Verify Exist	FCU-10, 2.75A		
		> Spare <	- - -		0	20	1	21	A	22	20	1	0		- - -	Ckt Demo		
		> Spare <	- - -		0	20	1	23	C	24	20	1	192	H	Verify Exist	FCU-12, 1.6A		
		Ckt Demo	- - -		0	20	1	25	A	26	20	1	0		- - -	Ckt Demo		
		Ckt Demo	- - -		0	20	1	27	C	28	20	1	0		- - -	Ckt Demo		
		> Spare <	- - -		0	20	1	29	A	30	20	1	0		- - -	Ckt Demo		
		> Spare <	- - -		0	20	1	31	C	32	20	1	0		- - -	Ckt Demo		
		> Spare <	- - -		0	20	1	33	A	34	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	35	C	36	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	37	A	38	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	39	C	40	20	1	0		- - -	> Spare <		

N# 01-	HACR Listed & Labeled MCCB	Phs-A =	48.9 %	22	A	2,600 VA	6.7 KVA Facotred End Use	28 A
N# 02-	Not Used	Phs-C =	51.1 %	23	A	2,720 VA	0.0 KVA Pass Thru Load	0 A
N# 03-	Not Used	Summary =		22	A	5,320 VA	1.0 KVA Spare	4 A
N# 04-	Not Used						7.6 KVA Total	32 A

LAA — LaGrange Police Dept 2019 Mods — LaGrange, GA. 30240

Project: LaGrange Police Dept 2019 Mods | LAA Schd | LaGrange, GA. 30240 City,St

Gen Nt 1: Existing, Remaining & Reused - Verify Exist Loads Remaining
Gen Nt 2: Provide New Matching Type Devices As May Be Required.
Gen Nt 3: Warning: 240D-120V, 3P-4W, Delta Hi-Leg (B-Phs-Orange)
Gen Nt 4: Verify Existing Ckts, Update Directory, Clean & Relabel Panel
Gen Nt 5: - - -

Volt- LL 240 | Volt- LN 120 | Phs. 1 W. 3 | Buss Amps 225 | Main OCP MLO
Enclosure-Mtg: NEMA-1 Wall Surf Mtd. | Cover & Door: Door-In-Door, With Locks | OCP Types: Main - MCCB-60C/75C Branch- MCCB, 60C/75C Lugs | All Busing: CU or AL 100% N & G Busing | Arc-Flash: Labeled Per NEC & OSHA

19-121 MADDOX GROUP INC. | Spare % = 15% | KA-AIC SCA Exist | 19.08.12 Date: | Const Const

Rv	Nt	Description	Wiring	ID	W/VA	OCP	P	#	P	#	OCP	P	W/VA	ID	Wiring	Description	Nt	Rv
		Ltg- 200 Comm Rm	As Shown	L	900	20	1	1	A	2	20	1	1,000	R	#12+ 12G	Rcpt- 200Lv Lobby		
		Ltg- 200 Comm Rm	As Shown	L	500	20	1	3	C	4	20	1	1,000	R	#12+ 12G	Rcpt- 200Lv Lobby		
		Ltg- 200 TeleComm	As Shown	L	700	20	1	5	A	6	20	1	600	R	#12+ 12G	Rcpt- 200Lv Files		
		Ltg- 200 Offices	As Shown	L	505	20	1	7	C	8	20	1	1,400	R	#12+ 12G	Rcpt- 200Lv Offices		
		Ltg- 200 Offices	As Shown	L	425	20	1	9	A	10	20	1	900	R	#12+ 12G	Rcpt- 200Lv RR+ WC		
		> Spare <	- - -		0	20	1	11	C	12	20	1	900	R	#12+ 12G	Rcpt- 200Lv RR+ WC		
		> Spare <	- - -		0	20	1	13	A	14	20	1	800	R	#12+ 12G	Rcpt- 200Lv Offices		
		> Spare <	- - -		0	20	1	15	C	16	20	1	600	R	#12+ 12G	Rcpt- 200Lv Offices		
		> Spare <	- - -		0	20	1	17	A	18	20	1	800	R	#12+ 12G	Rcpt- 200Lv Booking		
		> Spare <	- - -		0	20	1	19	C	20	20	1	400	R	#12+ 12G	Rcpt- 200Lv TeleComm		
		> Spare <	- - -		0	20	1	21	A	22	20	1	1,000	R	#12+ 12G	Rcpt- 200Lv TeleComm		
		> Spare <	- - -		0	20	1	23	C	24	20	1	1,000	R	#12+ 12G	Rcpt- 200Lv TV Lobby		
		> Spare <	- - -		0	20	1	25	A	26	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	27	C	28	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	29	A	30	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	31	C	32	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	33	A	34	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	35	C	36	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	37	A	38	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	39	C	40	20	1	0		- - -	> Spare <		

N# 01-	HACR Listed & Labeled MCCB	Phs A	53.1 %	59	A	7,125 VA	14.0 KVA Facotred End Use	58 A
N# 02-	Not Used	Phs C	46.9 %	53	A	6,305 VA	0.0 KVA Pass Thru Load	0 A
N# 03-	Not Used	Summary =		56	A	13,430 VA	2.1 KVA Spare	9 A
N# 04-	Not Used						16.1 KVA Total	67 A

LBA — LaGrange Police Dept 2019 Mods — LaGrange, GA. 30240

Project: LaGrange Police Dept 2019 Mods | LBA Schd | LaGrange, GA. 30240 City,St

Gen Nt 1: Existing, Remaining & Reused - Verify Exist Loads Remaining
Gen Nt 2: Provide New Matching Type Devices As May Be Required.
Gen Nt 3: Warning: 240D-120V, 3P-4W, Delta Hi-Leg (B-Phs-Orange)
Gen Nt 4: Verify Existing Ckts, Update Directory, Clean & Relabel Panel
Gen Nt 5: - - -

Volt- LL 240 | Volt- LN 120 | Phs. 1 W. 3 | Buss Amps 225 | Main OCP MLO
Enclosure-Mtg: NEMA-1 Wall Surf Mtd. | Cover & Door: Door-In-Door, With Locks | OCP Types: Main - MCCB-60C/75C Branch- MCCB, 60C/75C Lugs | All Busing: CU or AL 100% N & G Busing | Arc-Flash: Labeled Per NEC & OSHA

19-121 MADDOX GROUP INC. | Spare % = 15% | KA-AIC SCA Exist | 19.08.12 Date: | Const Const

Rv	Nt	Description	Wiring	ID	W/VA	OCP	P	#	P	#	OCP	P	W/VA	ID	Wiring	Description	Nt	Rv
		Rcpt- 200Lv Offs Cubes	#12+ 12G	R	400	20	1	1	A	2	20	1	1,000	R	#12+ 12G	Rcpt- 200Lv Offs		
		Rcpt- 200Lv Offs Cubes	#12+ 12G	R	400	20	1	3	C	4	20	1	600	R	#12+ 12G	Rcpt- 200Lv Offs		
		Rcpt- 200Lv Offs Cubes	#12+ 12G	R	400	20	1	5	A	6	20	1	1,000	R	#12+ 12G	Rcpt- 200Lv Offs		
		Rcpt- 200Lv Offs Cubes	#12+ 12G	R	400	20	1	7	C	8	20	1	600	R	#12+ 12G	Rcpt- 200Lv Offs		
		Rcpt- 200Lv Comm Ded	#12+ 12G	R	900	20	1	9	A	10	20	1	600	R	#12+ 12G	Rcpt- 200Lv Offs		
		Rcpt- 200Lv Comm Ded	#12+ 12G	R	900	20	1	11	C	12	20	1	600	R	#12+ 12G	Rcpt- 200Lv Offs		
		Rcpt- 200Lv Comm Ded	#12+ 12G	R	900	20	1	13	A	14	20	1	800	R	#12+ 12G	Rcpt- 200Lv Offs		
		Rcpt- 200Lv Comm Ded	#12+ 12G	R	300	20	1	15	C	16	20	1	800	R	#12+ 12G	Rcpt- 200Lv Gen		
		Rcpt- 200Lv Comm	#12+ 12G	R	1,200	20	1	17	A	18	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	19	C	20	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	21	A	22	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	23	C	24	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	25	A	26	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	27	C	28	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	29	A	30	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	31	C	32	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	33	A	34	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	35	C	36	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	37	A	38	20	1	0		- - -	> Spare <		
		- - -	- - -		0	na	-	Sub	A	Sub	na	-	0		- - -	LBB		
		- - -	- - -		0	-	2	Load	B	Load	-	2	0		- - -	Sub Feed		

N# 01-	HACR Listed & Labeled MCCB	Phs A	61.0 %	60	A	7,200 VA	10.9 KVA Facotred End Use	45 A
N# 02-	Not Used	Phs C	39.0 %	38	A	4,600 VA	0.0 KVA Pass Thru Load	0 A
N# 03-	Not Used	Summary =		49	A	11,800 VA	1.6 KVA Spare	7 A
N# 04-	Not Used						12.5 KVA Total	52 A

LBB — LaGrange Police Dept 2019 Mods — LaGrange, GA. 30240

Project: LaGrange Police Dept 2019 Mods | LBB Schd | LaGrange, GA. 30240 City,St

Gen Nt 1: Existing, Remaining & Reused - Verify Exist Loads Remaining
Gen Nt 2: Provide New Matching Type Devices As May Be Required.
Gen Nt 3: Warning: 240D-120V, 3P-4W, Delta Hi-Leg (B-Phs-Orange)
Gen Nt 4: Verify Existing Ckts, Update Directory, Clean & Relabel Panel
Gen Nt 5: - - -

Volt- LL 240 | Volt- LN 120 | Phs. 1 W. 3 | Buss Amps 225 | Main OCP MLO
Enclosure-Mtg: NEMA-1 Wall Surf Mtd. | Cover & Door: Door-In-Door, With Locks | OCP Types: Main - MCCB-60C/75C Branch- MCCB, 60C/75C Lugs | All Busing: CU or AL 100% N & G Busing | Arc-Flash: Labeled Per NEC & OSHA

19-121 MADDOX GROUP INC. | Spare % = 15% | KA-AIC SCA Exist | 19.08.12 Date: | Const Const

Rv	Nt	Description	Wiring	ID	W/VA	OCP	P	#	P	#	OCP	P	W/VA	ID	Wiring	Description	Nt	Rv
		> Spare <	- - -		0	20	1	1	A	2	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	3	C	4	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	5	A	6	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	7	C	8	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	9	A	10	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	11	C	12	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	13	A	14	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	15	C	16	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	17	A	18	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	19	C	20	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	21	A	22	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	23	C	24	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	25	A	26	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	27	C	28	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	29	A	30	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	31	C	32	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	33	A	34	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	35	C	36	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	37	A	38	20	1	0		- - -	> Spare <		
		> Spare <	- - -		0	20	1	39	C	40	20	1	0		- - -	> Spare <		

N# 01-	HACR Listed & Labeled MCCB	Phs A	#### %	0	A	0 VA	0.0 KVA Facotred End Use	0 A
N# 02-	Not Used	Phs C	#### %	0	A	0 VA	0.0 KVA Pass Thru Load	0 A
N# 03-	Not Used	Summary =		0	A	0 VA	0.0 KVA Spare	0 A
N# 04-	Not Used						0.0 KVA Total	0 A

L1A — LaGrange Police Dept 2019 Mods — LaGrange, GA. 30240

Project: LaGrange Police Dept 2019 Mods | L1A Schd | LaGrange, GA. 30240 City,St

Gen Nt 1: Existing, Remaining & Reused - Verify Exist Loads Remaining
Gen Nt 2: Provide New Matching Type Devices As May Be Required.
Gen Nt 3: Warning: 240D-120V, 3P-4W, Delta Hi-Leg (B-Phs-Orange)
Gen Nt 4: Verify Existing Ckts, Update Directory, Clean & Relabel Panel
Gen Nt 5: - - -

Volt- LL 240 | Volt- LN 120 | Phs. 3 W. 4 | Buss Amps 225 | Main OCP 225
Enclosure-Mtg: NEMA 1 Wall Surf Mtd. | Cover & Door: Exist | OCP Types: Main - MCCB-60C/75C Branch- MCCB, 60C/75C Lugs | All Busing: CU or AL 100% N & G Busing | Arc-Flash: Labeled Per NEC & OSHA

19-121 MADDOX GROUP INC. | Spare % = 15% | KA-AIC SCA Exist | 19.08.12 Date: | Const Status

Rv	Nt	Description	Wiring	ID	W/VA	OCP	P	#	P	#	OCP	P	W/VA	ID	Wiring	Description	Nt	Rv
		Ltg- 100 Lvl Offs	As Shown	L	585	20	1	1	A	2	20	1	0		As Shown	??		
		- - Hi-Leg - -	- - No 120-V Use - -		0	Sp	1	3	B	4	Sp	1	0		- - No 120-V Use - -	- - Hi-Leg - -		
		Ltg- 100 Lvl Offs	As Shown	L	940	20	1	5	C	6	20	1	0		?	??		
		Ltg- 100 Lvl Offs	As Shown	L	585	20	1	7	A	8	20	1	0		?	??		
		- - Hi-Leg - -	- - No 120-V Use - -		0	Sp	1	9	B	10	Sp	1	0		- - No 120-V Use - -	- - Hi-Leg - -		
		??	??		0	20	1	11	C	12	20	1	900	R	#12+ 12G	Rcpt- 100Lv Ded BrkRm		
		??	??		0	20	1	13	A	14	20	1	900	R	#12+ 12G	Rcpt- 100Lv Ded BrkRm		
		- - Hi-Leg - -	- - No 120-V Use - -		0	Sp	1	15	B	16	Sp	1	0		- - No 120-V Use - -	- - Hi-Leg - -		
		??	??		0	20	1	17	C	18	20	1	1,200	R	#12+ 12G	Rcpt- 100Lv Offs		
		??	??		0	20	1	19	A	20	20	1	1,200	R	#12+ 12G	Rcpt- 100Lv Offs		
		- - Hi-Leg - -	- - No 120-V Use - -		0	Sp	1	21	B	22	Sp	1	0		- - No 120-V Use - -	- - Hi-Leg - -		
		??	??		0	20	1	23	C	24	20	1	900	R	#12+ 12G	Rcpt- 100Lv Ded BrkRm		
		Rcpt- 100Lv Ded BrkRm	#12+ 12G	R	900	20	1	25	A	26	20	1	900	R	#12+ 12G	Rcpt- 100Lv Ded BrkRm		
		- - Hi-Leg - -	- - No 120-V Use - -		0	Sp	1	27	B	28	Sp	1	0		- - No 120-V Use - -	- - Hi-Leg - -		
		> Spare <	- - -		0	20	1	29	C	30	20	1	900	R	#12+ 12G	Rcpt- 100Lv Ded BrkRm		
		Rcpt- 100Lv Offs	#12+ 12G	R	800	20	1	31	A	32	20	1	1,200	R	#12+ 12G	Rcpt- 100Lv Offs		
		- - Hi-Leg - -	- - No 120-V Use - -		0	Sp	1	33	B	34	Sp	1	0		- - No 120-V Use - -	- - Hi-Leg - -		
		Rcpt- 100Lv Offs	#12+ 12G	R	1,000	20	1	35	C	36	20	1	800	R	#12+ 12G	Rcpt- 100Lv Offs		
		< Space Only >	- - -		0	20	1	37	A	38	20	1	1,200	R	#12+ 12G	Rcpt- 100Lv Offs		
		- - Hi-Leg - -	- - No 120-V Use - -		0	Sp	1	39	B	40	Sp	1	0		- - No 120-V Use - -	- - Hi-Leg - -		
		Rcpt- 100Lv Offs	#12+ 12G	R	1,400	20	1	41	C	42	20	1	0		- - -	< Space Only >		
		- - -	- - -		0	na	-	Sub	A	Sub	na	-	13,200	P	- - -	L1B		
		Not Used	- - -		0	-	-	Feed	B	Feed	-	-	14,200	P	- - -	Sub-Feed		
		- - -	- - -		0	-	3	Load	C	Load	-	3	17,400	P	- - -	Lugs		

N# 01-	HACR Listed & Labeled MCCB	Phs- A	35.1 %	155	A	21,470 VA	14.7 KVA Facotred End Use	35 A
N# 02-	Not Used	Phs- B	23.2 %	102	A	14,200 VA	47.3 KVA Pass Thru Load	114 A
N# 03-	Not Used	Phs- C	41.6 %	184	A	25,440 VA	2.2 KVA Spare	5 A
N# 04-	Not Used	Summary =		147	A	61,110 VA	64.2 KVA Total	155 A

L1B — LaGrange Police Dept 2019 Mods — LaGrange, GA. 30240

LaGrange Police Dept 2019 Mods | L1B Schd | LaGrange, GA. 30240 City,St

Existing, Remaining & Reused - Verify Exist Loads Remaining
Provide New Matching Type Devices As May Be Required.
Warning: 240D-120V, 3P-4W, Delta Hi-Leg (B-Phs-Orange)
Verify Existing Ckts, Update Directory, Clean & Relabel Panel
- - -

Volt- LL 240 | Volt- LN 120 | Phs. 3 W. 4 | Buss Amps 225 | Main OCP MLO
Enclosure-Mtg: NEMA 1 Wall Surf Mtd. | Cover & Door: Exist | OCP Types: Main - MCCB-60C/75C Branch- MCCB, 60C/75C Lugs | All Busing: CU or AL 100% N & G Busing | Arc-Flash: Labeled Per NEC & OSHA

MADDOX GROUP INC. | Spare % = 15% | KA-AIC SCA Exist | 19.08.12 Date: | Const Status

Description	Wiring	ID	W/VA	OCP	P	#	P	#	OCP	P	W/VA	ID	Wiring	Description	Nt	Rv
??	As Shown		0	20	1	1	A	2	20	1	0		As Shown	??		
RTU-01, Gas Ht	Verify existing	C	3,700	60	-	3	B	4	60	-	3,700	C	Verify existing	RTU-04, Gas Ht		
240V, 3Phs	- -	C	3,700	-	-	5	C	6	-	-	3,700	C	- -	240V, 3Phs		
6.0 Ton	- -	C	3,700	-	3	7	A	8	-	3	3,700	C	- -	7.5 Ton		
RTU-02, Gas Ht	Verify existing	C	1,900	30	-	9	B	10	30	-	1,900	C	Verify existing	RTU-03, Gas Ht		
240V, 1Phs, 2.5 Ton	- -	C	1,900	-	2	11	C	12	-	2	1,900	C	- -	240V, 1Phs, 2.5 Ton		
??	??		0	20	1	13	A	14	20	1	0		?	??		
- - Hi-Leg - -	- - No 120-V Use - -		0	Sp	1	15	B	16	Sp	1	0		- - No 120-V Use - -	- - Hi-Leg - -		
??	??		0	20	1	17	C	18	20	1	400	R	#12+ 12G	Rcpt- 100Lv		
Wtr Htr	Verify existing	R	3,000	30	-	19	A	20	20	1	1,000	R	#12+ 12G	Rcpt- 100Lv Offs		
240V, 3Phs	- -	R	3,000	-	-	21	B	22	Sp	1	0		- - No 120-V Use - -	- - Hi-Leg - -		
- - -	- -	R	3,000	-	3	23	C	24	20	1	400	R	#12+ 12G	Rcpt- 100Lv Ded Eq		
> Spare <	- - -		0	20	1	25	A	26	20	1	400	R	#12+ 12G	Rcpt- 100Lv Ded Eq		
- - Hi-Leg - -	- - No 120-V Use - -		0	Sp	1	27	B	28	Sp	1	0		- - No 120-V Use - -	- - Hi-Leg - -		
Rcpt- 100Lv Offs	#12+ 12G	R	1,000	20	1	29	C	30	20	1	400	R	#12+ 12G	Rcpt- 100Lv Ded Eq		
> Spare <	- - -		0	20	1	31	A	32	20	1	400	R	#12+ 12G	Rcpt- 100Lv Ded Eq		
- - Hi-Leg - -	- - No 120-V Use - -		0	Sp	1	33	B	34	Sp	1	0		- - No 120-V Use - -	- - Hi-Leg - -		
> Spare <	- - -		0	20	1	35	C	36	20	1	1,000	R	#12+ 12G	Rcpt- 100Lv Assemb		
< Space Only >	- - -		0	20	1	37	A	38	20	1	1,000	R	#12+ 12G	Rcpt- 100Lv Assemb		
- - Hi-Leg - -	- - No 120-V Use - -		0	Sp	1	39	B	40	Sp	1	0		- - No 120-V Use - -	- - Hi-Leg - -		
< Space Only >	- - -		0	20	1	41	C	42	20	1	0		- - -	< Space Only >		

HACR Listed & Labeled MCCB		Phs- A	29.5 %	95	A	13,200 VA	44.8 KVA Facotred End Use	108 A
Not Used		Phs- B	31.7 %	102	A	14,200 VA	0.0 KVA Pass Thru Load	0 A
Not Used		Phs- C	38.8 %	126	A	17,400 VA	6.7 KVA Spare	16 A
Not Used		Summary =		108	A	44,800 VA	51.5 KVA Total	124 A

Architect's Stamp

Signature Required

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GEORGIA REGISTERED No 13254 PROFESSIONAL ENGINEER ROBERT M. MADDOX 8/8/19

TMG Job #: 19-121
Copywright -TMG- 2019

THE MADDOX GROUP, INC.
DESIGN & ENGINEERING CONSULTANTS

Revisions

#	Date	Description

Project Title:

RENOVATIONS TO LAGRANGE POLICE DEPT

100 West Haralson St.
LaGrange, GA. 30240

Sheet Title:

ELECTRICAL SCHEDULES

Modified Date: 2019.08.12

SDG Job No: 1911

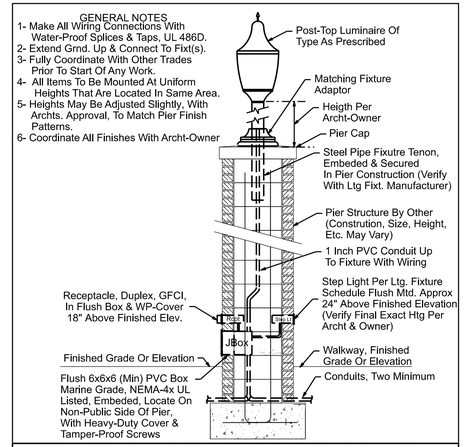
Issued Date: Bid & Permit 2019.08.12

Sheet: E-05

LEGEND NOTES

19.06.??	LaGrange Police Dept 2019 Mods	
#	Rv	LEGEND NOTES: E-05	CO
01	-	FLUSH WP J-BOX: Flush WP J-Box In Brick Wall With Tamper-Proof Hardware. Extend Ckt Up To Light Fixture. All Wiring Concealed. Coordinate Exact Placement & Wiring Routing With Architect & Owner Prior To Any Rough-Ins. See Archt Details.	
02	-		
03	-		
-	-	- - - - -	
19-121		End Of Legend Notes	

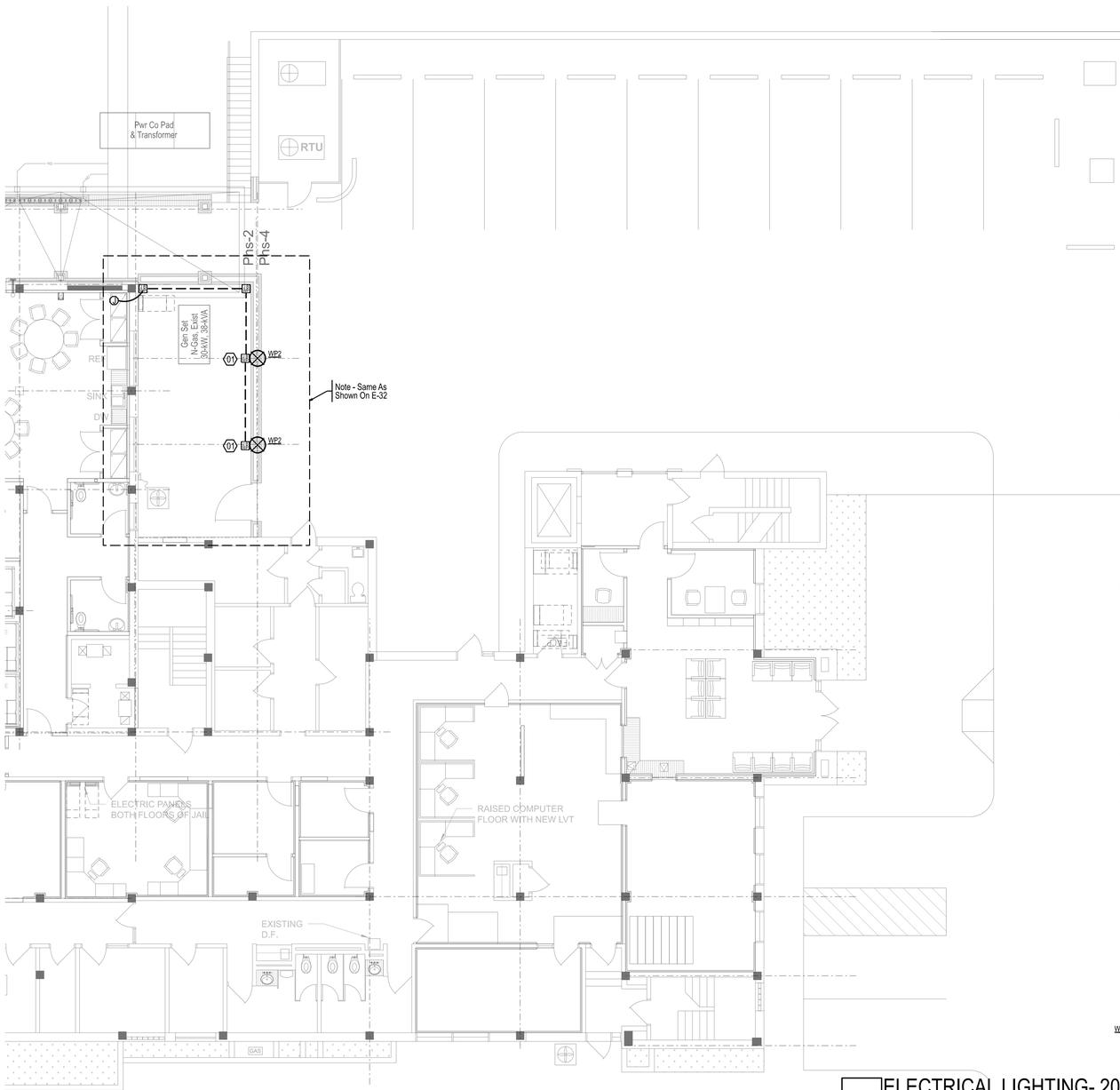
GENERAL NOTES
1- Make All Wiring Connections With Water-Proof Splices & Taps, UL 486D.
2- Extend Grnd. Up & Connect To Fixt(s).
3- Fully Coordinate With Other Trades Prior To Start Of Any Work.
4- All Items To Be Mounted At Uniform Heights That Are Located In Same Area.
5- Heights May Be Adjusted Slightly, With Archts. Approval, To Match Pier Finish Patterns.
6- Coordinate All Finishes With Archt-Owner

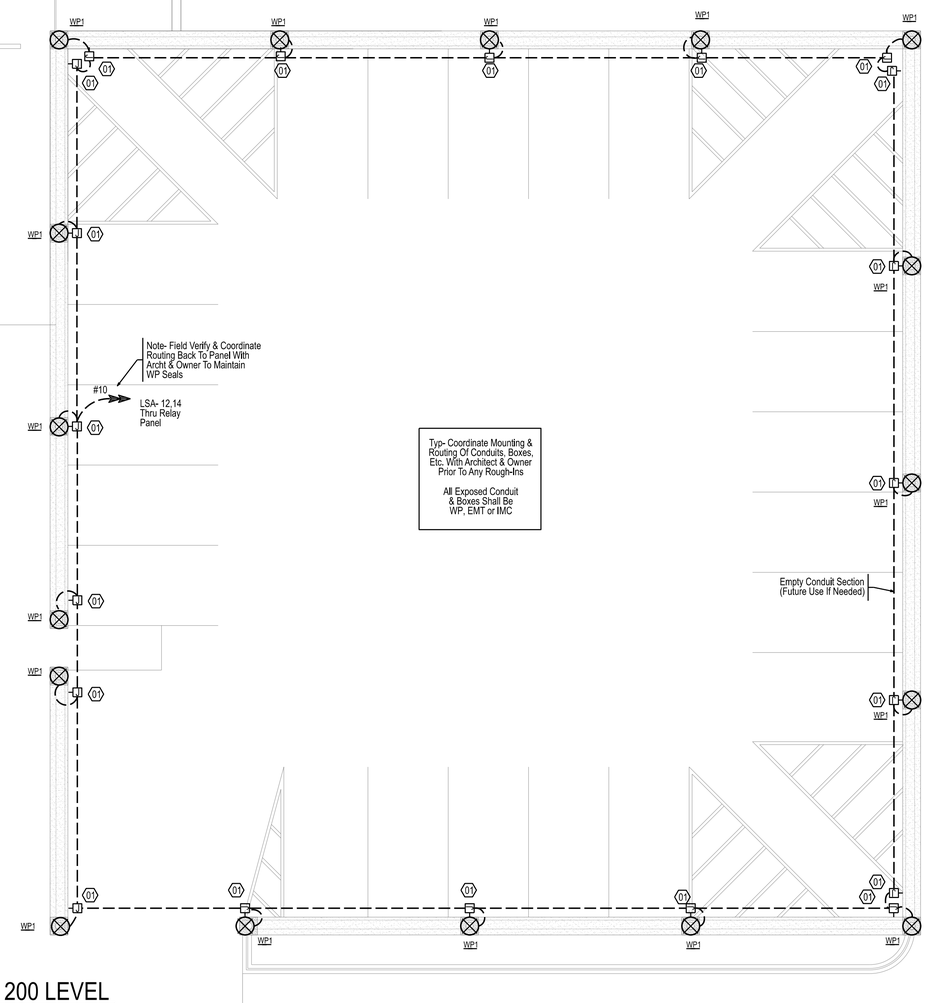


PIER MTD POST-TOP LTG. FIXTURE DETAIL

MG Detail: Not To Scale

WP1: Provide Matching 72 Inch High Post





1 ELECTRICAL LIGHTING- 200 LEVEL
1 IN = 8 FT
20
40

Architect's Stamp

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GEORGIA REGISTERED No 13234 PROFESSIONAL ENGINEER ROBERT M. MADDOX 2019.08.12

TMG Job #: 19-121
Copywright -TMG- 2019

THE MADDOX GROUP, INC.
DESIGN & ENGINEERING CONSULTANTS

Revisions

#	Date	Description

Project Title:

RENOVATIONS TO LAGRANGE POLICE DEPT

100 West Haralson St.
LaGrange, GA. 30240

Sheet Title:

ELECTRICAL & LIGHTING 200 LEVEL PARKING DECK

Modified Date: 2019.08.12

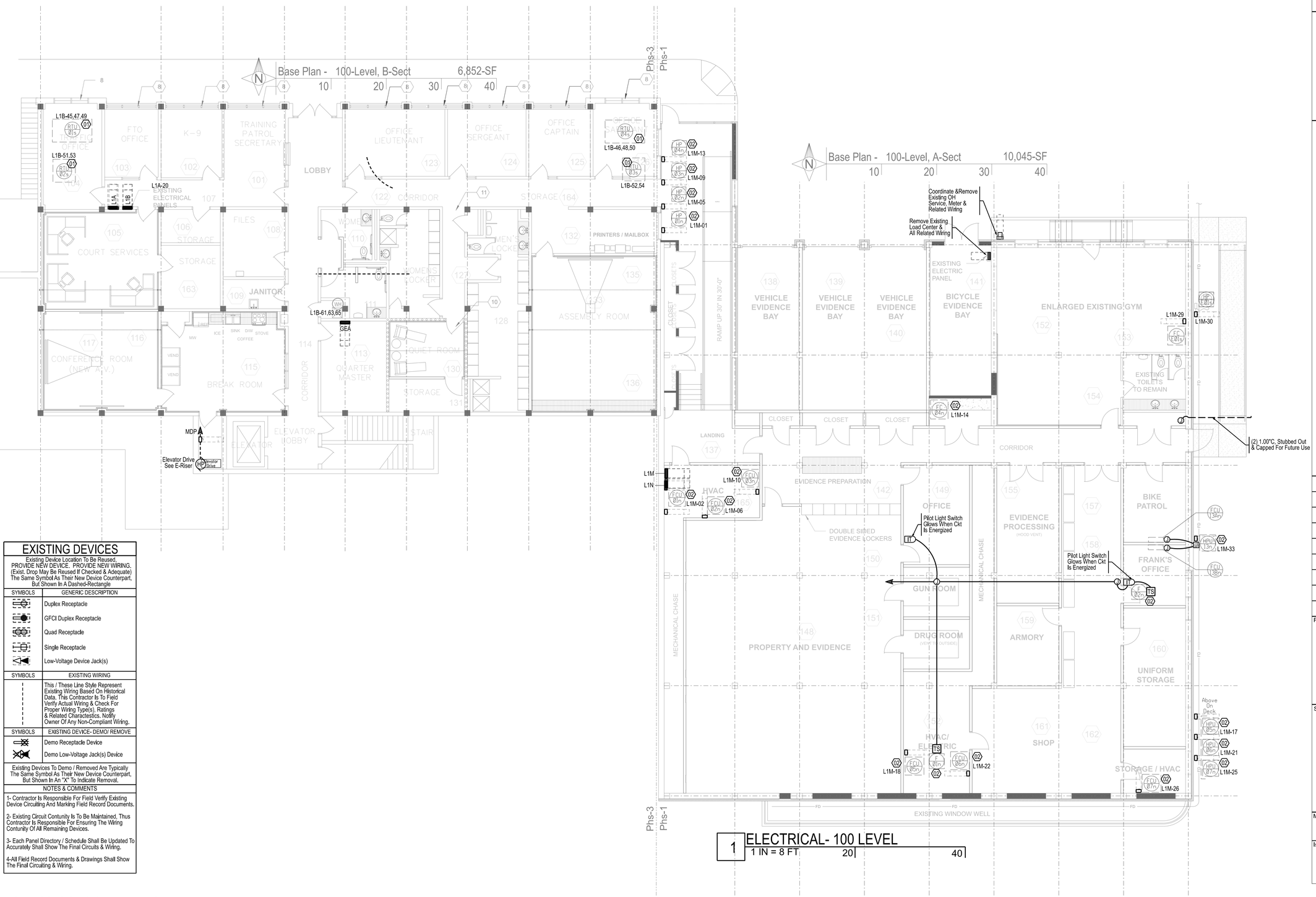
SDG Job No: 1911

Issued Date: Bid & Permit 2019.08.12

Sheet: E-0.6

LEGEND NOTES

19.08.12	LaGrange Police Dept 2019 Mods	
#	Rv	LEGEND NOTES: E-1_	CO
01	-	EXISTING EQUIP: Field Check & Verify, Update Pnl Schedules & Director. Clean Devices, Disconnect, Etc., Check Condition Of Wiring & OCP, Label Disconnect, Etc. Prepare & Document & Submit A Listing Of The Equipment Wiring Condition	
02	-	HVAC EQUIP(New): Coordinate & Provide For New Equipment As Shown & Scheduled.	
-	-		
19-121		End Of Legend Notes	



1 ELECTRICAL- 100 LEVEL
1 IN = 8 FT

EXISTING DEVICES

Existing Device Location To Be Reused. PROVIDE NEW DEVICE. PROVIDE NEW WIRING. (Exist. Drop May Be Reused If Checked & Adequate) The Same Symbol As Their New Device Counterpart, But Shown In A Dashed-Rectangle

SYMBOLS	GENERIC DESCRIPTION
	Duplex Receptacle
	GFCI Duplex Receptacle
	Quad Receptacle
	Single Receptacle
	Low-Voltage Device Jack(s)
SYMBOLS	**EXISTING WIRING**
	This / These Line Style Represent Existing Wiring Based On Historical Data. This Contractor Is To Field Verify Actual Wiring & Check For Proper Wiring Type(s), Ratings & Related Characteristics. Notify Owner Of Any Non-Compliant Wiring.
SYMBOLS	**EXISTING DEVICE- DEMO/ REMOVE**
	Demo Receptacle Device
	Demo Low-Voltage Jack(s) Device

Existing Devices To Demo / Removed Are Typically The Same Symbol As Their New Device Counterpart, But Shown In An "X" To Indicate Removal.

NOTES & COMMENTS

1- Contractor Is Responsible For Field Verify Existing Device Circuiting And Marking Field Record Documents.

2- Existing Circuit Contunity Is To Be Maintained, Thus Contractor Is Responsible For Ensuring The Wiring Contunity Of All Remaining Devices.

3- Each Panel Directory / Schedule Shall Be Updated To Accurately Shall Show The Final Circuits & Wiring.

4-All Field Record Documents & Drawings Shall Show The Final Circuiting & Wiring.

Architect's Stamp

Signature Required

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TMG Job #: 19-121
Copywright -TMG- 2019

THE MADDOX GROUP, INC.
DESIGN & ENGINEERING CONSULTANTS

Revisions

#	Date	Description

Project Title:

RENOVATIONS TO LAGRANGE POLICE DEPT

100 West Haralson St.
LaGrange, GA. 30240

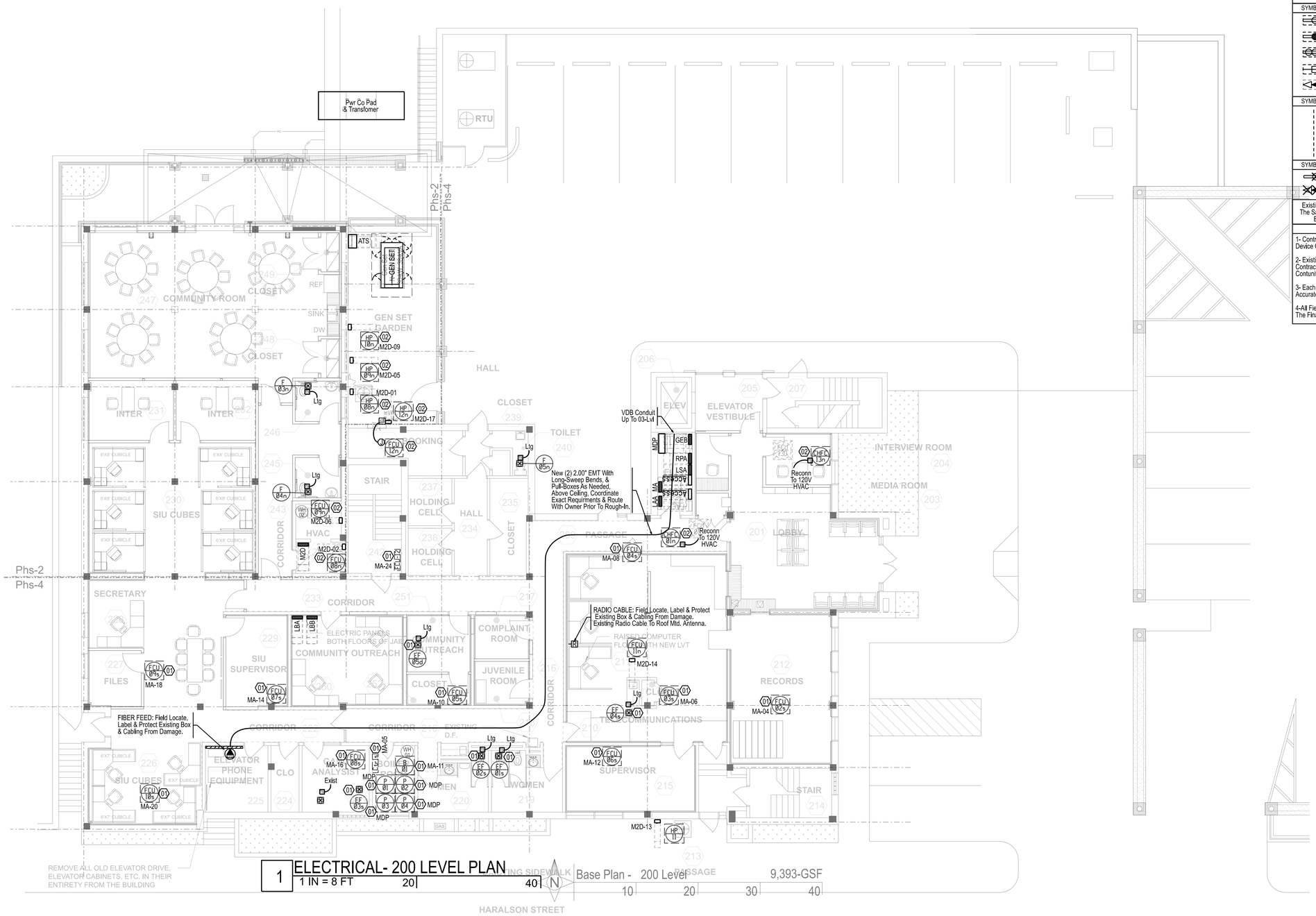
Sheet Title:

ELECTRICAL MECHANICAL 100 LEVEL PLAN

Modified Date:	SDG Job No:
2019.08.12	1911
Issued Date:	Sheet:
Bid & Permit 2019.08.12	E-1.1

LEGEND NOTES

19.08.12	LaGrange Police Dept 2019 Mods	
#	Rv	LEGEND NOTES: E-1_	CO
01	-	EXISTING EQUIP: Field Check & Verify, Update Pnl Schedules & Director. Clean Devices, Disconnect, Etc., Check Condition Of Wiring & OCP, Label Disconnect, Etc. Prepare & Document & Submit A Listing Of The Equipment Wiring Condition	
02	-	HVAC EQUIP(New): Coordinate & Provide For New Equipment As Shown & Scheduled.	
-	-		
19-121		End Of Legend Notes	



1 ELECTRICAL- 200 LEVEL PLAN
1 IN = 8 FT

EXISTING DEVICES

Existing Device Location To Be Reused. PROVIDE NEW DEVICE. PROVIDE NEW WIRING. (Exist. Drop May Be Reused If Checked & Adequate) The Same Symbol As Their New Device Counterpart, But Shown In A Dashed-Rectangle

SYMBOLS	GENERIC DESCRIPTION
	Duplex Receptacle
	GFCI Duplex Receptacle
	Quad Receptacle
	Single Receptacle
	Low-Voltage Device Jack(s)
SYMBOLS	**EXISTING WIRING**
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SYMBOLS	**EXISTING DEVICE- DEMO/ REMOVE**
	Demo Receptacle Device
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NOTES & COMMENTS

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3- Each Panel Directory / Schedule Shall Be Updated To Accurately Shall Show The Final Circuits & Wiring.

4-All Field Record Documents & Drawings Shall Show The Final Circuiting & Wiring.

Architect's Stamp

Signature Required

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TMG Job #: 19-121
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THE MADDOX GROUP, INC.
DESIGN & ENGINEERING CONSULTANTS

Revisions

#	Date	Description

Project Title:

RENOVATIONS TO LAGRANGE POLICE DEPT

100 West Haralson St.
LaGrange, GA. 30240

Sheet Title:

ELECTRICAL MECHANICAL 200 LEVEL PLAN

Modified Date:	SDG Job No:
2019.08.12	1911
Issued Date: Bid & Permit 2019.08.12	Sheet: E-1.2

EXISTING DEVICES

Existing Device Location To Be Reused, PROVIDE NEW DEVICE. PROVIDE NEW WIRING. (Exist. Drop May Be Reused If Checked & Adequate) The Same Symbol As Their New Device Counterpart, But Shown In A Dashed-Rectangle

SYMBOLS	GENERIC DESCRIPTION
	Duplex Receptacle
	GFCI Duplex Receptacle
	Quad Receptacle
	Single Receptacle
	Low-Voltage Device Jack(s)

SYMBOLS	EXISTING WIRING
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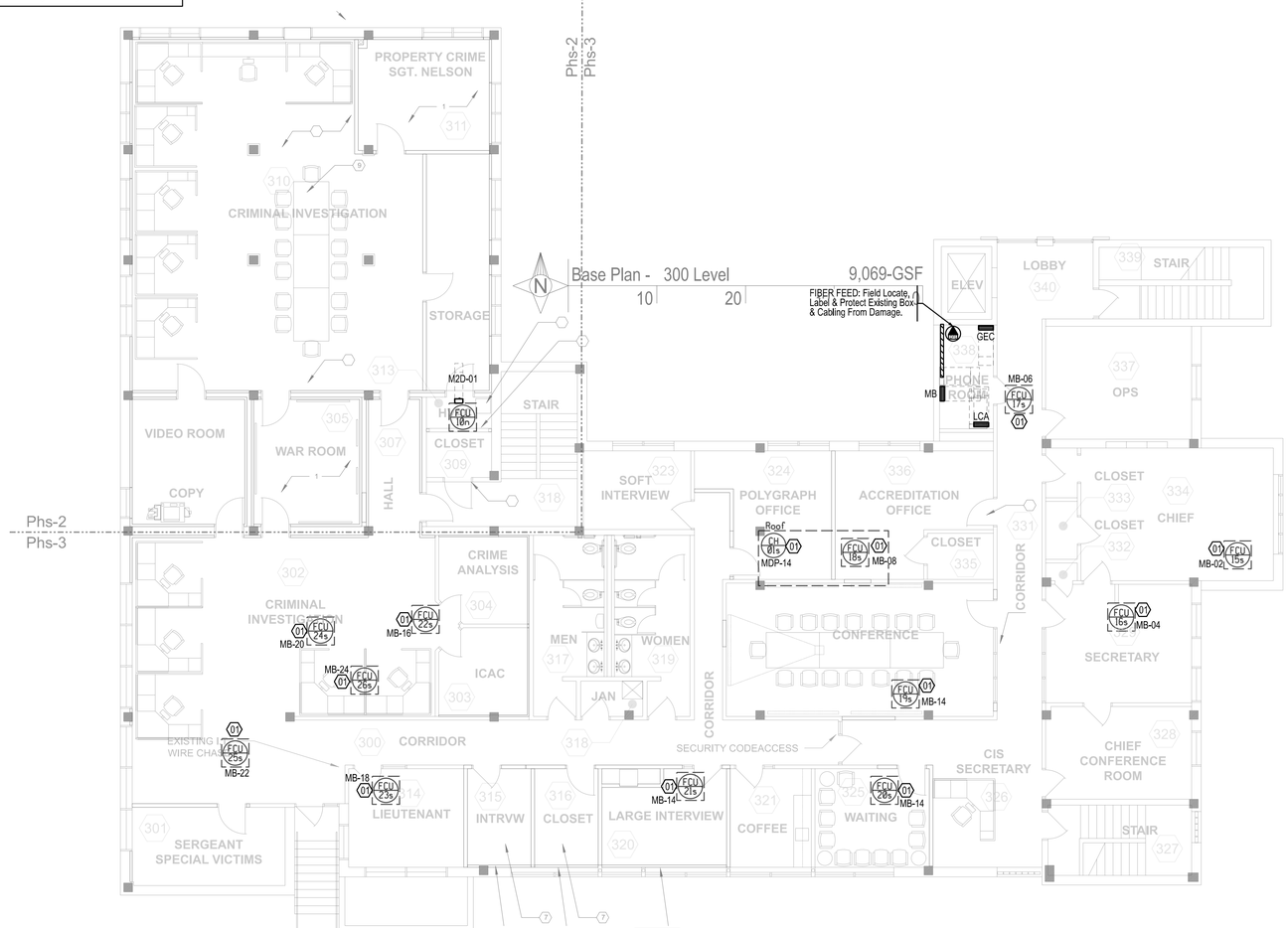

1 ELECTRICAL- 300 LEVEL PLAN
1 IN = 8 FT 20 40

LEGEND NOTES

19.08.12		LaGrange Police Dept 2019 Mods	
#	Rv	LEGEND NOTES: E-1_	CO
01	-	EXISTING EQUIP: Field Check & Verify, Update Pnl Schedules & Director. Clean Devices, Disconnect, Etc., Check Condition Of Wiring & OCP, Label Disconnect, Etc. Prepare & Document & Submit A Listing Of The Equipment Wiring Condition	
02	-	HVAC EQUIP(New): Coordinate & Provide For New Equipment As Shown & Scheduled.	
19-121		End Of Legend Notes	

Architect's Stamp

Signature Required

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TMG Job #: 19-121
Copywright -TMG- 2019

GEORGIA No 13254 PROFESSIONAL ENGINEER ROBERT M. MADDOX 2019 08 12

THE MADDOX GROUP, INC.
DESIGN & ENGINEERING CONSULTANTS

Revisions

#	Date	Description

Project Title:

RENOVATIONS TO LAGRANGE POLICE DEPT

100 West Haralson St.
LaGrange, GA. 30240

Sheet Title:

ELECTRICAL MECHANICAL 300 LEVEL PLAN

Modified Date:	SDG Job No:
2019.08.12	1911
Issued Date: Bid & Permit 2019.08.12	Sheet: E-1.3

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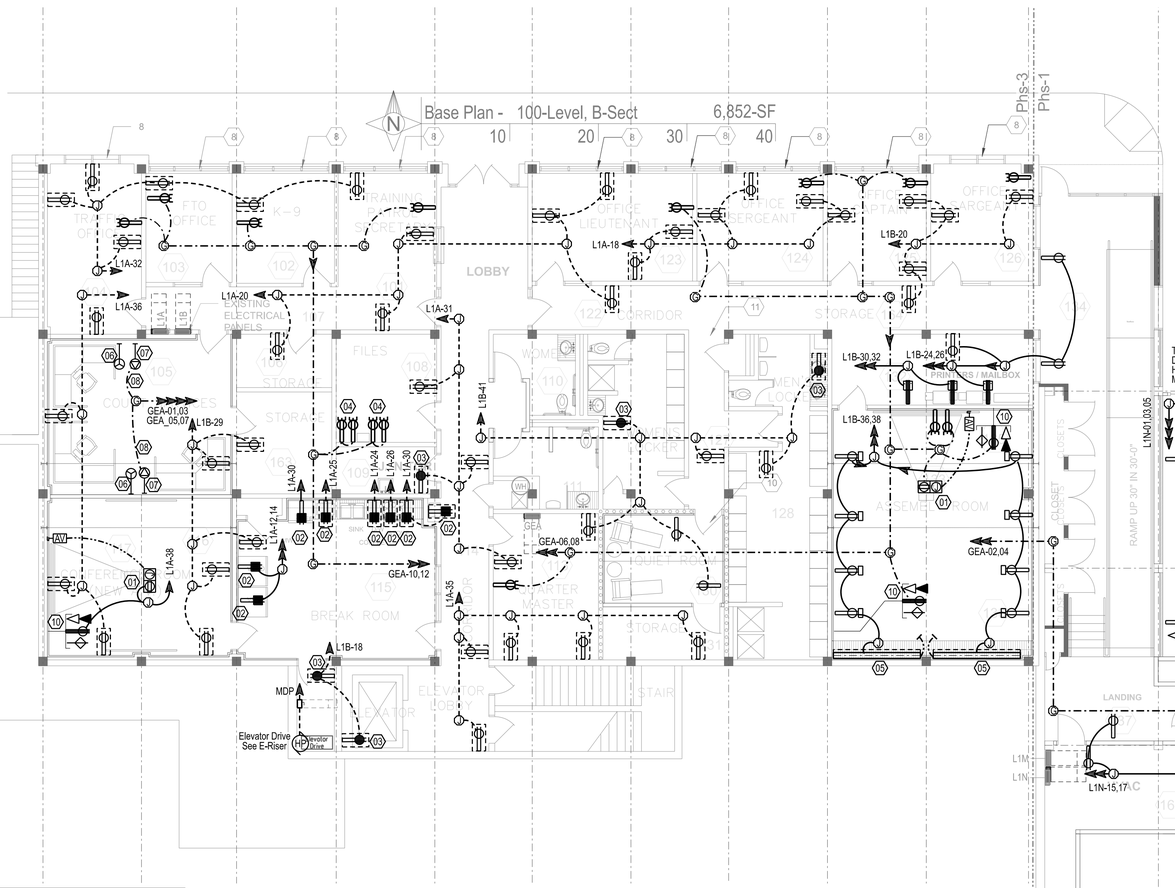

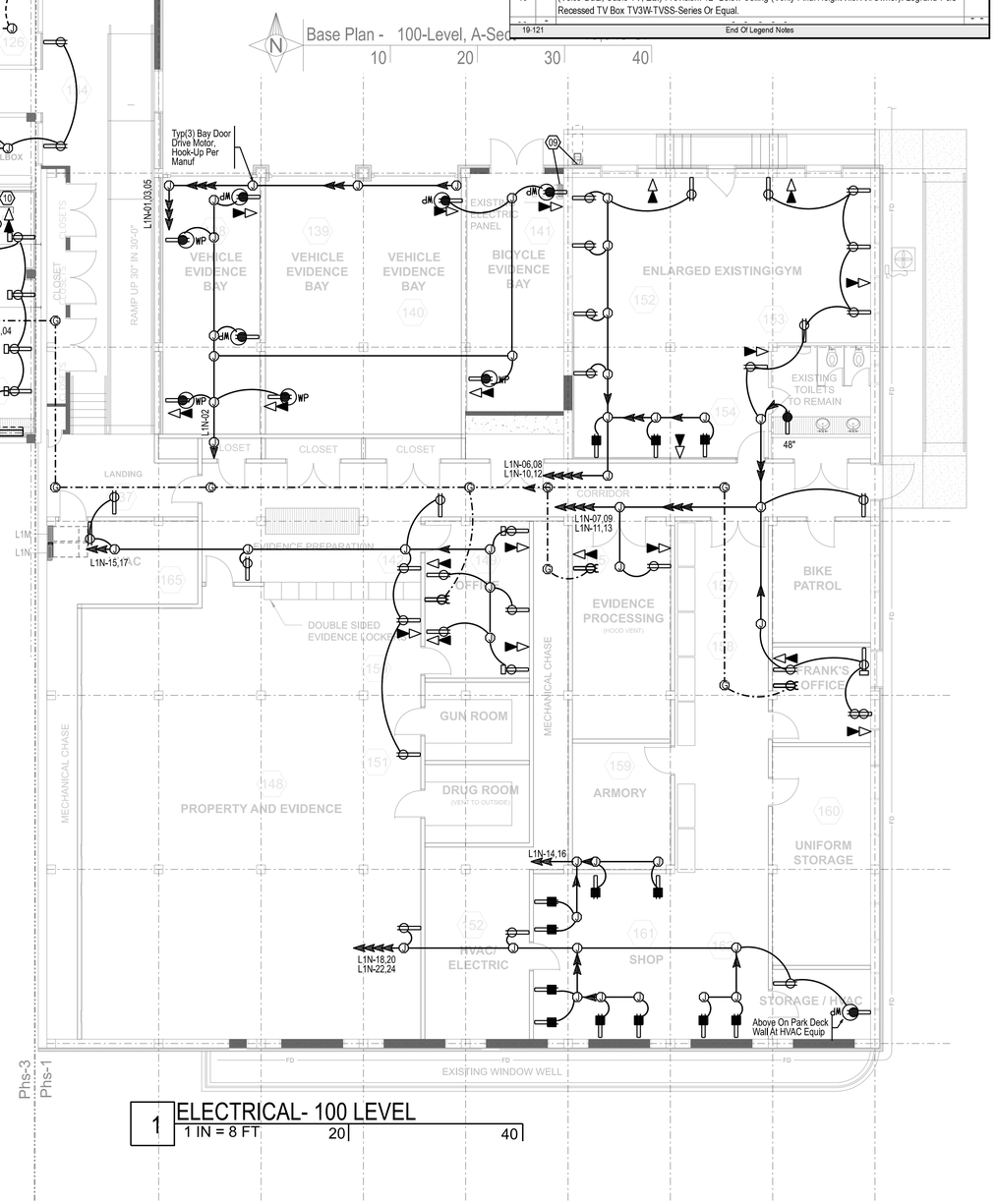

1 ELECTRICAL- 100 LEVEL
1 IN = 8 FT

LEGEND NOTES

19.08.12		LaGrange Police Dept 2019 Mods	
#	Rv	LEGEND NOTES: E-21	CO
01	-	CLG MTD 2-GANG AV-TVSS PWR: Flush Ceiling Box, 2-Gang With (1) TVSS-Duplex Receptacle, (1) Voice-Data Jack Provision, (1) Cable TV Jack Provision. Verify Exact Location With A/I. Support From Structure, Not Ceiling. Extend 1.25" EC To Wall Box For Future LV Screen Control & Wiring By Others. Legrand-P&S Recessed TV Box TV3W-TVSS-Series Or Equal.	
02	-	VERIFY APPLIANCE GFCI DEDICATED RCPT: 20A-120V-2W-G Duplex Receptacle On Dedicated 120V-20A-1P Breaker. Test & Verify Proper Operation. Update "As-Builts" & Panel Directories. Label Outlet With Pnl & Ckt#.	
03	-	VERIFY WET-LOCATION GFCI RCPT(s): 15A-120V-2W-G Duplex Receptacle, Test & Verify Proper Operation. Update "As-Builts" & Panel Directories. Label Outlet With Pnl & Ckt#.	
04	-	VERIFY VDB-TELCO TVSS DEDICATED RCPT: TVSS Duplex Receptacle, 20A-120V-2W-G, On Dedicated 120V-20A MCCB. Test & Verify Proper Operation. Update "As-Builts" & Panel Directories. Label Outlet With Pnl & Ckt#.	
05	-	PLUGMOLD EXISTING: Verify Existing Plugmold & Circuiting. To Remain & Be Reused. Notify Archt & Owner Of Any Deficiency.	
06	-	FURNITURE SYSTEM V-D WALL FEED: Field Verify Exact Location & Rough-In, Set 4x4 JBox 18" AFF &	
07	-	FURNITURE SYSTEM POWER WALL FEED: Field Verify Electrical Requirements & Exact Location Prior To Rough-In, Set J-Box 18" AFF For Flex & Connection Work Station Power Connector.	
08	-	FURNITURE SYSTEM **4C-8W-G** WIRING (4#10+ 2#10N+10IG+10G)(Field Verify): Extend Ckts. To 208Y-120V Panel(S), 20A Multi-Pole Breaker(S) (I.E.- 3 Ckt/ 4 Wire- 20A-3P Bkr) (Phase A-B-C) Or Provide Separate Neutrals. Updated Record Field Drawings & Panel Schedules & Directories With Load Information. Field Verify Exist. Panel Space & Capacity Prior To Pricing. Note: Circuits On Arc-Flash Protected OCPs Must Have Dedicated Neutrals (Grounded Conductor). Arc-Flash Circuits Cannot Share A Neutral.	
09	-	Demo Existing Electrical Item(s)	
10	-	WALL MTD 3-GANG AV-PWR BOX: Flush Wall Box With (2) TVSS-Duplex Receptacle, (1) 4-Jack Plate (Voice-Data, Cable TV, Etc.) Provision. 12" Below Ceiling (Verify Final Height With A/I/Owner). Legrand-P&S Recessed TV Box TV3W-TVSS-Series Or Equal.	
19-121		End Of Legend Notes	

EXISTING DEVICES

Existing Device Location To Be Reused. PROVIDE NEW DEVICE. PROVIDE NEW WIRING. (Exist. Drop May Be Reused If Checked & Adequate) The Same Symbol As Their New Device Counterpart, But Shown In A Dashed-Rectangle

SYMBOLS	GENERIC DESCRIPTION
	Duplex Receptacle
	GFCI Duplex Receptacle
	Quad Receptacle
	Single Receptacle
	Low-Voltage Device Jack(s)
SYMBOLS	**EXISTING WIRING**
	This / These Line Style Represent Existing Wiring Based On Historical Data. This Contractor Is To Field Verify Actual Wiring & Check For Proper Wiring Type(s), Ratings & Related Charactestics. Notify Owner Of Any Non-Compliant Wiring.
SYMBOLS	**EXISTING DEVICE- DEMO/ REMOVE**
	Demo Receptacle Device
	Demo Low-Voltage Jack(s) Device

Existing Devices To Demo / Removed Are Typically The Same Symbol As Their New Device Counterpart, But Shown In An "X" To Indicate Removal.

NOTES & COMMENTS

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3- Each Panel Directory / Schedule Shall Be Updated To Accurately Shall Show The Final Circuits & Wiring.

4-All Field Record Documents & Drawings Shall Show The Final Circuiting & Wiring.

RECEPTACLE DEVICES

15A	20A	Mtg-UNO	Descriptions	LEGRAND-P&S Series
		18" AFF	Single Rcpt. HD Tamper Resistiant	TR 26/36 x
		18" AFF	Duplex Rcpt.	PT26 2/3 52x
		18" AFF	Quad Rcpt. (2-Duplex)	415/420
		18" AFF	Duplex WR-ST-TR GFCI Rcpt	PT 15/20 97x
		18" AFF	Duplex-WR-ST-TR-GFCI Rcpt.+ WP In-Use Cover	PT 15/20 97x & WIUC10x
		18" AFF	Duplex Surge Protected (See Wiring Notes)	PTTR-5262-xx-SP
		18" AFF	Two Duplex Surge Prot. (See Wiring Notes)	(2)PTTR-5262-xx-SP
		18" AFF	Dplx Rcpt-Top Switched	PT26 2/3 52x
		18" AFF	TR Duplex Rcpt & 2-USB Type-A Ports. Class-2.0	TR5 2/3 62YSBx
		18" AFF	Tamper Resistiant Duplex Rcpt.	PTTR 26 2/3 62x
		18" AFF	Tamper Resistiant Duplex Rcpt. ST-GFCI	PT 15/20 97NAWx

COMMENTS & NOTES

01- Devices To Be UL20, UL498 Listed & Labeled Where Applicable.
02- Devices To Be FSUL-WS896, FSUL-WC596 Compliant Where Applicable.
03- Devices To Be NFTA (Buy American) Where Avialable.
04- Devices To Be Legrand / P&S, PlugTail, Specification Grade Devices, UNO.
05- Devices To Be Decor Style Unless Not Available In Decor Style.
06- Provide Smooth Finish Matching P&S Trade-Master Grade Cover Plates.
07- Products Of Other Manufactures, Equivalent In Apperance, Features, Performance, Rating & Size, Are Acceptable.
08- Color As Selected By Owner / Tenant Or Architect.
09- Field Verify Final Exact Location Prior To Rough-In With Archt., Owner / User.
10- Multiple Adjacent Devices Shall Be Mtd In Multi-Gang Box With Multi-Gang Cover.
11- Surge Protective Recpts.> UL1449, 3-Mode, 340 Joules, LED & Audible Alarm.

EMERGENCY POWER SYSTEM (EPSS) WIRING DEVICES

15A	20A	Mtg-UNO	Descriptions	LEGRAND-P&S Series
		18" AFF	Duplex Rcpt.	PT26 2/3 52x

EPSS WIRING REQUIRMENTS

R1 >All EPSS Wiring Systems Shall Comply With NEC-700.10, Be Independent Of All Other Wiring Systems, Marked & ID

R2 >All Devices & CoverPlates On EPSS Wiring System(s) Shall Be RED.

COMMENTS & NOTES

01- Devices To Be UL20, UL498 Listed & Labeled Where Applicable.
02- Devices To Be FSUL-WS896, FSUL-WC596 Compliant Where Applicable.
03- Devices To Be NFTA (Buy American) Where Avialable.
04- Devices To Be Legrand / P&S, PlugTail, Specification Grade Devices, UNO.
05- Devices To Be Decor Style Unless Not Available In Decor Style.
06- Provide Smooth Finish Matching P&S Trade-Master Grade Cover Plates.
07- Products Of Other Manufactures, Equivalent In Apperance, Features, Performance, Rating & Size, Are Acceptable.
08- Color As Selected By Owner / Tenant Or Architect.
09- Field Verify Final Exact Location Prior To Rough-In With Archt., Owner / User.
10- Multiple Adjacent Devices Shall Be Mtd In Multi-Gang Box With Multi-Gang Cover.
11- Surge Protective Recpts.> UL1449, 3-Mode, 340 Joules, LED & Audible Alarm.

Architect's Stamp

Signature Required

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TMG Job #: 19-121
Copywright -TMG- 2019

THE MADDOX GROUP, INC.
DESIGN & ENGINEERING CONSULTANTS

Revisions

#	Date	Description

Project Title:

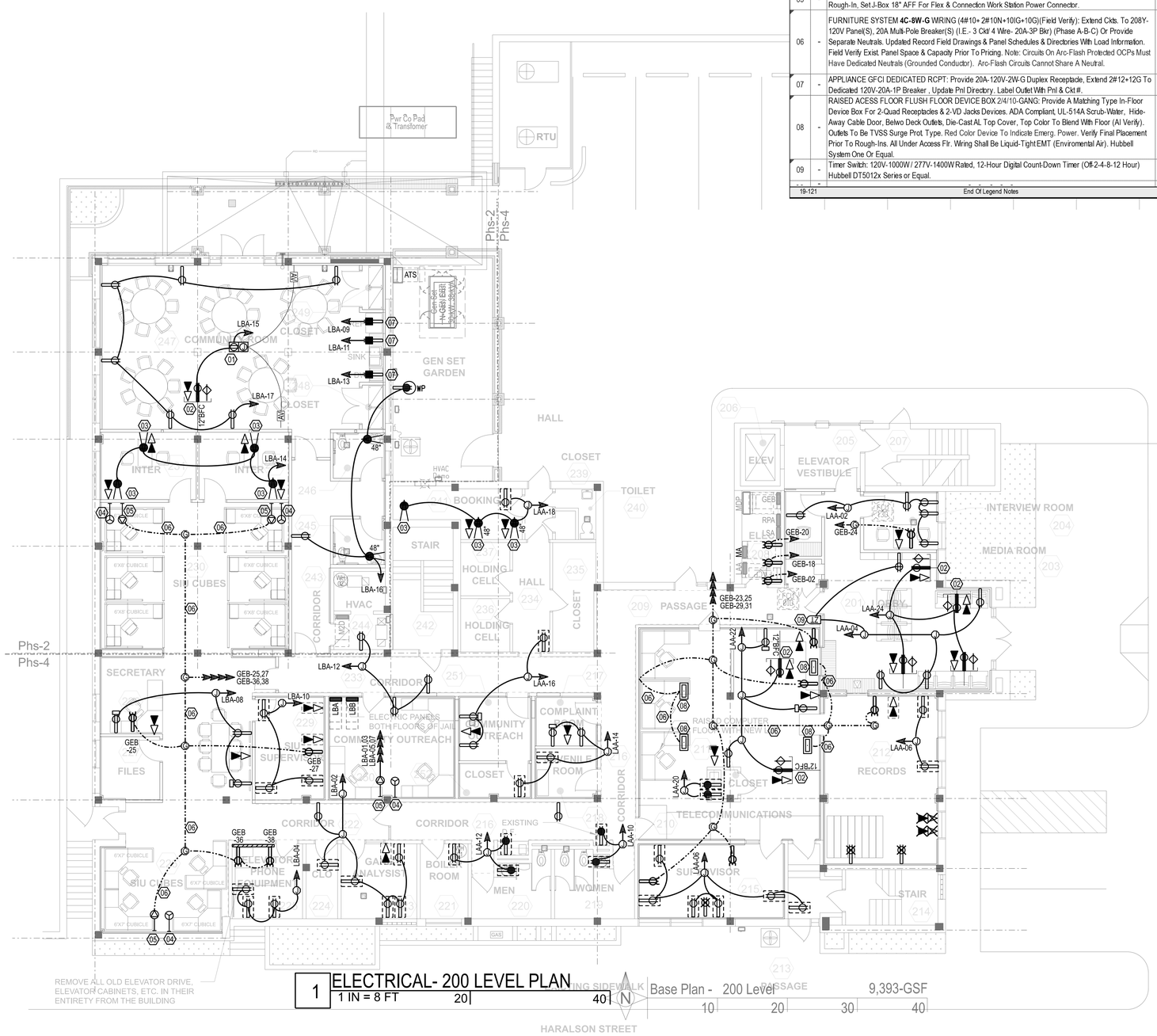
RENOVATIONS TO LAGRANGE POLICE DEPT

100 West Haralson St.
LaGrange, GA. 30240

Sheet Title:

ELECTRICAL OUTLET 100 LEVEL PLAN

Modified Date: 2019.08.12	SDG Job No: 1911
Issued Date: Bid & Permit 2019.08.12	Sheet: E-2.1



1 ELECTRICAL- 200 LEVEL PLAN
1 IN = 8 FT

LEGEND NOTES

19.08.12	LaGrange Police Dept 2019 Mods	
# Rv	LEGEND NOTES: E-22	CO
01 -	CLG MTD 2-GANG AV-TVSS PWR: Flush Ceiling Box, 2-Gang With (1) TVSS-Duplex Receptacle, (1) Voice-Data Jack Provision, (1) Cable TV Jack Provision. Verify Exact Location With A/I. Support From Structure, Not Ceiling. Extend 1.25" EC To Wall Box For Future LV Screen Control & Wiring By Others. Legrand-P&S Recessed TV Box TV3W-TVSS-Series Or Equal.	
02 -	WALL MTD 3-GANG AV-PWR BOX: Flush Wall Box With (2) TVSS-Duplex Receptacle, (1) 4-Jack Plate (Voice-Data, Cable TV, Etc.) Provision. 12" Below Ceiling (Verify Final Height With A/I/Owner). Legrand-P&S Recessed TV Box TV3W-TVSS-Series Or Equal.	
03 -	TR-GFCI RCPT: Self-Testing & Audible Alarm GFCI Duplex Tamper-Resistant Receptacle & Cover-Plate, Decora Style. RoHS Compliant. Wall Mtd. 48" AFF (ADA), Color Per Archt-Owner. P&S Legrand Spec-Grade Or Equiv.	
04 -	FURNITURE SYSTEM V-D WALL FEED: Field Verify Exact Location & Rough-In, Set 4x4 JBox 18" AFF & Extend 1 1/ 4"C To Accessible Plenum With Pull String For Use By Data/Telco Installer.	
05 -	FURNITURE SYSTEM POWER WALL FEED: Field Verify Electrical Requirements & Exact Location Prior To Rough-In, Set J-Box 18" AFF For Flex & Connection Work Station Power Connector.	
06 -	FURNITURE SYSTEM **4C-8W-G** WIRING (4#10+ 2#10N+10IG+10G)(Field Verify): Extend Ckts. To 208Y-120V Panel(S), 20A Multi-Pole Breaker(S) (I.E.- 3 Ckt/ 4 Wire- 20A-3P Bkr) (Phase A-B-C) Or Provide Separate Neutrals. Updated Record Field Drawings & Panel Schedules & Directories With Load Information. Field Verify Exist. Panel Space & Capacity Prior To Pricing. Note: Circuits On Arc-Flash Protected OCPs Must Have Dedicated Neutrals (Grounded Conductor). Arc-Flash Circuits Cannot Share A Neutral.	
07 -	APPLIANCE GFCI DEDICATED RCPT: Provide 20A-120V-2W-G Duplex Receptacle, Extend 2#12+12G To Dedicated 120V-20A-1P Breaker , Update Pnl Directory. Label Outlet With Pnl & Ckt #.	
08 -	RAISED ACESS FLOOR FLUSH FLOOR DEVICE BOX 2/4/10-GANG: Provide A Matching Type In-Floor Device Box For 2-Quad Receptacles & 2-VD Jacks Devices. ADA Compliant, UL-514A Scrub-Water, Hide-Away Cable Door, Belwo Deck Outlets, Die-Cast AL Top Cover, Top Color To Blend With Floor (AI Verify). Outlets To Be TVSS Surge Prot. Type. Red Color Device To Indicate Emerg. Power. Verify Final Placement Prior To Rough-Ins. All Under Access Flr. Wiring Shall Be Liquid-Tight EMT (Enviromental Air). Hubbell System One Or Equal.	
09 -	Timer Switch: 120V-1000W / 277V-1400W Rated, 12-Hour Digital Count-Down Timer (Off-2-4-8-12 Hour) Hubbell DT5012x Series or Equal.	
- -	- - - - - -	- -
19-121	End Of Legend Notes	

EMERGENCY POWER SYSTEM (EPSS) WIRING DEVICES

15A	20A	Mtg-UNO	Descriptions	LEGRAND-P&S Series
		18" AFF	Duplex Rcpt.	PT26 2/3 52x

EPSS WIRING REQUIRMENTS

R1 >All EPSS Wiring Systems Shall Comply With NEC-700.10, Be Independent Of All Other Wiring Systems, Marked & ID

R2 >All Devices & CoverPlates On EPSS Wiring System(s) Shall Be RED.

COMMENTS & NOTES

01- Devices To Be UL20, UL498 Listed & Labeled Where Applicable.
02- Devices To Be FSUL-WS896, FSUL-WC596 Compliant Where Applicable.
03- Devices To Be NFTA (Buy American) Where Available.
04- Devices To Be Legrand / P&S, PlugTail, Specification Grade Devices, UNO.
05- Devices To Be Decor Style Unless Not Available In Decor Style.
06- Provide Smooth Finish Matching P&S Trade-Master Grade Cover Plates.
07- Products Of Other Manufactures, Equivalent In Apperance, Features, Performance, Rating & Size, Are Acceptable.
08- Color As Selected By Owner / Tenant Or Architect.
09- Field Verify Final Exact Location Prior To Rough-In With Archt., Owner / User.
10- Multiple Adjacent Devices Shall Be Mtd In Multi-Gang Box With Multi-Gang Cover.
11- Surge Protective Recpts.> UL1449, 3-Mode, 340 Joules, LED & Audible Alarm.

EXISTING DEVICES

Existing Device Location To Be Reused. PROVIDE NEW DEVICE. PROVIDE NEW WIRING. (Exist. Drop May Be Reused If Checked & Adequate) The Same Symbol As Their New Device Counterpart, But Shown In A Dashed-Rectangle

SYMBOLS	GENERIC DESCRIPTION
	Duplex Receptacle
	GFCI Duplex Receptacle
	Quad Receptacle
	Single Receptacle
	Low-Voltage Device Jack(s)

SYMBOLS	EXISTING WIRING
	This / These Line Style Represent Existing Wiring Based On Historical Data. This Contractor Is To Field Verify Actual Wiring & Check For Proper Wiring Type(s), Ratings & Related Charactestics. Notify Owner Of Any Non-Compliant Wiring.

SYMBOLS	EXISTING DEVICE- DEMO/ REMOVE
	Demo Receptacle Device
	Demo Low-Voltage Jack(s) Device

Existing Devices To Demo / Removed Are Typically The Same Symbol As Their New Device Counterpart, But Shown In An "X" To Indicate Removal.

NOTES & COMMENTS

1- Contractor Is Responsible For Field Verify Existing Device Circuiting And Marking Field Record Documents.

2- Existing Circuit Contunity Is To Be Maintained, Thus Contractor Is Responsible For Ensuring The Wiring Contunity Of All Remaining Devices.

3- Each Panel Directory / Schedule Shall Be Updated To Accurately Shall Show The Final Circuits & Wiring.

4-All Field Record Documents & Drawings Shall Show The Final Circuiting & Wiring.

RECEPTACLE DEVICES

15A	20A	Mtg-UNO	Descriptions	LEGRAND-P&S Series
		18" AFF	Single Rcpt, HD Tamper Resistiant	TR 26/36 x
		18" AFF	Duplex Rcpt.	PT26 2/3 52x
		18" AFF	Quad Rcpt. (2-Duplex)	415/420
		18" AFF	Duplex WR-ST-TR GFCI Rcpt	PT 15/20 97x
		18" AFF	Duplex-WR-ST-TR-GFCI Rcpt.+ WP In-Use Cover	PT 15/20 97x & WIUC10x
		18" AFF	Duplex Surge Protected (See Wiring Notes)	PTTR-5262-xx-SP
		18" AFF	Two Duplex Surge Prot. (See Wiring Notes)	(2)PTTR-5262-xx-SP
		18" AFF	Dplx Rcpt-Top Switched	PT26 2/3 52x
		18" AFF	TR Duplex Rcpt & 2-USB Type-A Ports, Class-2.0	TR5 2/3 62YSBx
		18" AFF	Tamper Resistiant Duplex Rcpt.	PTTR 26 2/3 62x
		18" AFF	Tamper Resistiant Duplex Rcpt. ST-GFCI	PT 15/20 97NAWx

COMMENTS & NOTES

01- Devices To Be UL20, UL498 Listed & Labeled Where Applicable.
02- Devices To Be FSUL-WS896, FSUL-WC596 Compliant Where Applicable.
03- Devices To Be NFTA (Buy American) Where Available.
04- Devices To Be Legrand / P&S, PlugTail, Specification Grade Devices, UNO.
05- Devices To Be Decor Style Unless Not Available In Decor Style.
06- Provide Smooth Finish Matching P&S Trade-Master Grade Cover Plates.
07- Products Of Other Manufactures, Equivalent In Apperance, Features, Performance, Rating & Size, Are Acceptable.
08- Color As Selected By Owner / Tenant Or Architect.
09- Field Verify Final Exact Location Prior To Rough-In With Archt., Owner / User.
10- Multiple Adjacent Devices Shall Be Mtd In Multi-Gang Box With Multi-Gang Cover.
11- Surge Protective Recpts.> UL1449, 3-Mode, 340 Joules, LED & Audible Alarm.

Architect's Stamp

Signature Required

SMITH DESIGN GROUP, INC.
206 WEST HARALSON ST
LAGRANGE, GEORGIA 30240
706-882-5511
www.SDGarch.net

9309 Seminole Road
Jonesboro, Georgai 30236
770 - 471 - 9076
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TMG Job #: 19-121
Copywright -TMG- 2019

THE MADDOX GROUP, INC.
DESIGN & ENGINEERING CONSULTANTS

Revisions

#	Date	Description

Project Title:

RENOVATIONS TO LAGRANGE POLICE DEPT

100 West Haralson St.
LaGrange, GA. 30240

Sheet Title:

ELECTRICAL OUTLET 200 LEVEL PLAN

Modified Date:	SDG Job No:
2019.08.12	1911
Issued Date: Bid & Permit 2019.08.12	Sheet: E-2.2

EXISTING DEVICES

Existing Device Location To Be Reused, PROVIDE NEW DEVICE. PROVIDE NEW WIRING. (Exist. Drop May Be Reused If Checked & Adequate) The Same Symbol As Their New Device Counterpart, But Shown In A Dashed-Rectangle

SYMBOLS	GENERIC DESCRIPTION
	Duplex Receptacle
	GFCI Duplex Receptacle
	Quad Receptacle
	Single Receptacle
	Low-Voltage Device Jack(s)
SYMBOLS	**EXISTING WIRING**
	This / These Line Style Represent Existing Wiring Based On Historical Data. This Contractor Is To Field Verify Actual Wiring & Check For Proper Wiring Type(s), Ratings & Related Charactestics. Notify Owner Of Any Non-Compliant Wiring.
SYMBOLS	**EXISTING DEVICE- DEMO/ REMOVE**
	Demo Receptacle Device
	Demo Low-Voltage Jack(s) Device

Existing Devices To Demo / Removed Are Typically The Same Symbol As Their New Device Counterpart, But Shown In An "X" To Indicate Removal.

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1- Contractor Is Responsible For Field Verify Existing Device Circuiting And Marking Field Record Documents.

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3- Each Panel Directory / Schedule Shall Be Updated To Accurately Shall Show The Final Circuits & Wiring.

4-All Field Record Documents & Drawings Shall Show The Final Circuiting & Wiring.

RECEPTACLE DEVICES

15A	20A	Mtg-UNO	Descriptions	LEGRAND-P&S Series
		18" AFF	Single Rcpt, HD Tamper Resistiant	TR 26/36 x
		18" AFF	Duplex Rcpt.	PT26 2/3 52x
		18" AFF	Quad Rcpt. (2-Duplex)	415/420
		18" AFF	Duplex WR-ST-TR GFCI Rcpt	PT 15/20 97x
		18" AFF	Duplex-WR-ST-TR-GFCI Rcpt.+ WP In-Use Cover	PT 15/20 97x & WIUC10x
		18" AFF	Duplex Surge Protected (See Wiring Notes)	PTTR-5262-xx-SP
		18" AFF	Two Duplex Surge Prot. (See Wiring Notes)	(2)PTTR-5262-xx-SP
		18" AFF	Dplx Rcpt-Top Switched	PT26 2/3 52x
		18" AFF	TR Duplex Rcpt & 2-USB Type-A Ports, Class-2.0	TR5 2/3 62YSBx
		18" AFF	Tamper Resistiant Duplex Rcpt.	PTTR 26 2/3 62x
		18" AFF	Tamper Resistiant Duplex Rcpt. ST-GFCI	PT 15/20 97NAWx

COMMENTS & NOTES

01- Devices To Be UL20, UL498 Listed & Labeled Where Applicable.
02- Devices To Be FSUL-WS896, FSUL-WC596 Compliant Where Applicable.
03- Devices To Be NFTA (Buy American) Where Avialable.
04- Devices To Be Legrand / P&S, PlugTail, Specification Grade Devices, UNO.
05- Devices To Be Decor Style Unless Not Available In Decor Style.
06- Provide Smooth Finish Matching P&S Trade-Master Grade Cover Plates.
07- Products Of Other Manufactures, Equivalent In Apperance, Features, Performance, Rating & Size, Are Acceptable.
08- Color As Selected By Owner / Tenant Or Architect.
09- Field Verify Final Exact Location Prior To Rough-In With Archt., Owner / User.
10- Multiple Adjacent Devices Shall Be Mtd In Multi-Gang Box With Multi-Gang Cover.
11- Surge Protective Recpts.> UL1449, 3-Mode, 340 Joules, LED & Audible Alarm.

EMERGENCY POWER SYSTEM (EPSS) WIRING DEVICES

15A	20A	Mtg-UNO	Descriptions	LEGRAND-P&S Series
		18" AFF	Duplex Rcpt.	PT26 2/3 52x

EPSS WIRING REQUIRMENTS

R1 >All EPSS Wiring Systems Shall Comply With NEC-700.10, Be Independent Of All Other Wiring Systems, Marked & ID

R2 >All Devices & CoverPlates On EPSS Wiring System(s) Shall Be RED.

COMMENTS & NOTES

01- Devices To Be UL20, UL498 Listed & Labeled Where Applicable.
02- Devices To Be FSUL-WS896, FSUL-WC596 Compliant Where Applicable.
03- Devices To Be NFTA (Buy American) Where Avialable.
04- Devices To Be Legrand / P&S, PlugTail, Specification Grade Devices, UNO.
05- Devices To Be Decor Style Unless Not Available In Decor Style.
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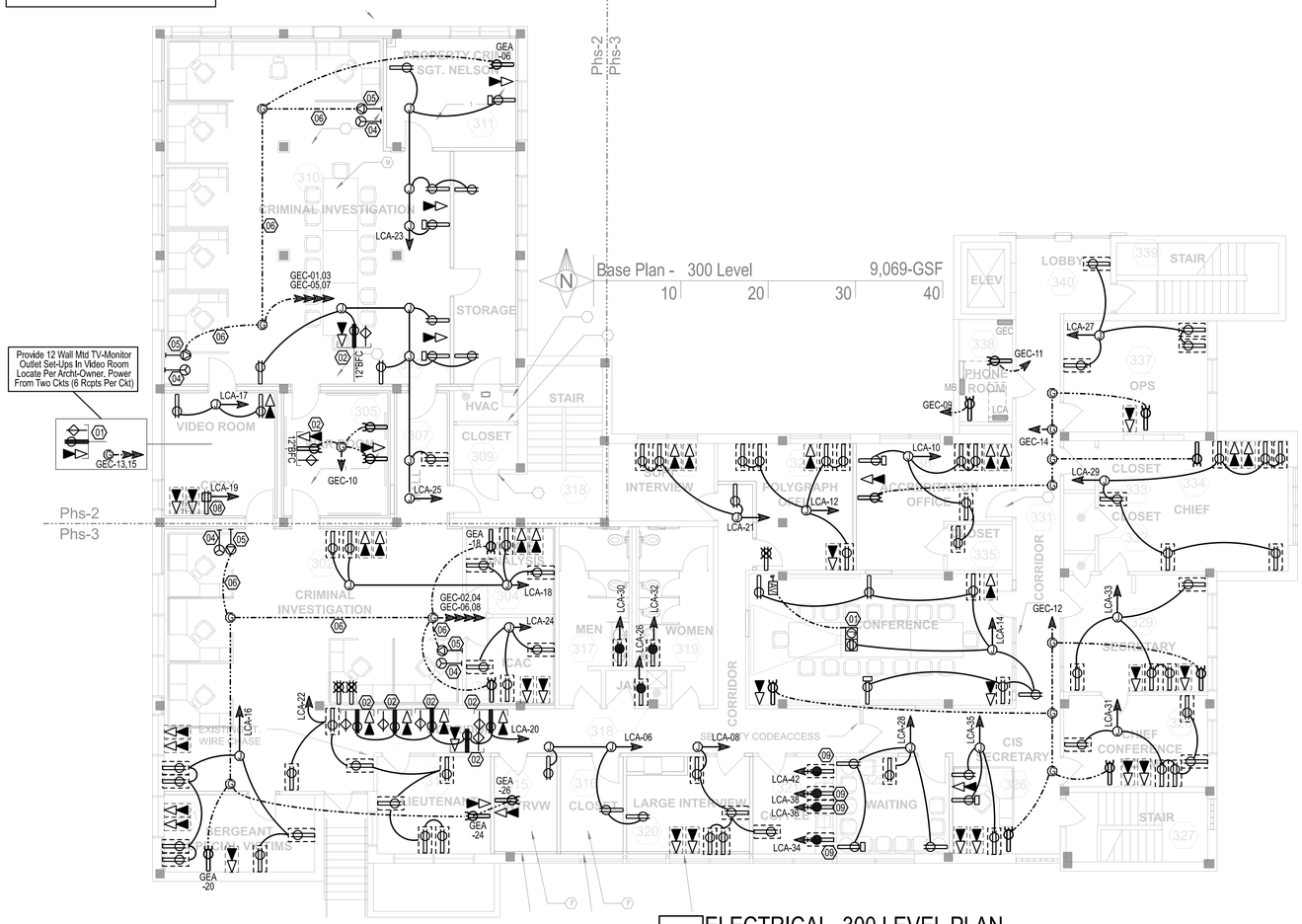
11- Surge Protective Recpts.> UL1449, 3-Mode, 340 Joules, LED & Audible Alarm.



1 ELECTRICAL- 300 LEVEL PLAN
1 IN = 8 FT 20 40

LEGEND NOTES

19.08.12		LaGrange Police Dept 2019 Mods	
#	Rv	LEGEND NOTES: E-23	CO
01	-	CLG MTD 2-GANG AV-TVSS PWR: Flush Ceiling Box, 2-Gang With (1) TVSS-Duplex Receptacle, (1) Voice-Data Jack Provision, (1) Cable TV Jack Provision. Verify Exact Location With A/I. Support From Structure, Not Ceiling. Extend 1.25" EC To Wall Box For Future LV Screen Control & Wiring By Others. Legrand-P&S Recessed TV Box TV3W-TVSS-Series Or Equal.	
02	-	WALL MTD 3-GANG AV-PWR BOX: Flush Wall Box With (2) TVSS-Duplex Receptacle, (1) 4-Jack Plate (Voice-Data, Cable TV, Etc.) Provision. 12" Below Ceiling (Verify Final Height With A/I/Owner). Legrand-P&S Recessed TV Box TV3W-TVSS-Series Or Equal.	
03	-	TR-GFCI RCPT: Self-Testing & Audible Alarm GFCI Duplex Tamper-Resistant Receptacle & Cover-Plate, Decora Style. RoHS Compliant, Wall Mtd. 48" AFF (ADA), Color Per Archt-Owner. P&S Legrand Spec-Grade Or Equiv.	
04	-	FURNITURE SYSTEM V-D WALL FEED: Field Verify Exact Location & Rough-In, Set 4x4 JBox 18" AFF & Extend 1 1/ 4"C To Accessible Plenum With Pull String For Use By Data/Telco Installer.	
05	-	FURNITURE SYSTEM POWER WALL FEED: Field Verify Electrical Requirements & Exact Location Prior To Rough-In, Set J-Box 18" AFF For Flex & Connection Work Station Power Connector.	
06	-	FURNITURE SYSTEM **4C-8W-G** WIRING (4#10+ 2#10N+10IG+10G)(Field Verify): Extend Ckts. To 208Y-120V Panel(S), 20A Multi-Pole Breaker(S) (I.E.- 3 Ckt/ 4 Wire- 20A-3P Bkr) (Phase A-B-C) Or Provide Separate Neutrals. Updated Record Field Drawings & Panel Schedules & Directories With Load Information. Field Verify Exist. Panel Space & Capacity Prior To Pricing. Note: Circuits On Arc-Flash Protected OCPs Must Have Dedicated Neutrals (Grounded Conductor). Arc-Flash Circuits Cannot Share A Neutral.	
07	-	APPLIANCE GFCI DEDICATED RCPT: Provide 20A-120V-2W-G Duplex Receptacle, Extend 2#12+12G To Dedicated 120V-20A-1P Breaker , Update Pnl Directory. Label Outlet With Pnl & Ckt #.r.	
08	-	OFFICE EQUIP. 120V-20A DED. RCPT: Provide 20A-120V-2W-G Duplex Receptacle, Extend 2#12+12G To Dedicated 120V-20A-1P Breaker , Update Pnl Directory. Label Outlet With Pnl & Ckt #..	
09	-	VERIFY APPLIANCE GFCI DEDICATED RCPT: 20A-120V-2W-G Duplex Receptacle On Dedicated 120V-20A-1P Breaker. Test & Verify Proper Operation. Update "As-Builts" & Panel Directories. Label Outlet With Pnl & Ckt#.	
- -	-	- - -

LIGHTING GENERAL NOTES

NOTES & COMMNETS

FIXTURE TYPES ARE INDICATED BY UPPER CASE CHARACTERS
SWITCHING GROUPS SHOWN BY LOWER CASE LTRS. WHERE APPLICABLE.
CIRCUIT GROUPING SHOWN BY NUMBERS, WHERE APPLICABLE.
REFER TO REFLECTED CEILING PLANS FOR EXACT FIXTURE LOCATIONS.
WP INDICATES WEATHER PROOF SWITCH COVER.

LIGHTING FIXTURE SYMBOLS

SYMBOLS	MTG/UNO	DESCRIPTIONS
	SEE SCHD.	LIGHTING FIXTURES, GENERALLY CEILING MOUNTED SHAPE GENERALLY INDICATES SHAPE OF FIXTURE
	SEE SCHD.	FLUORESCENT STRIP TYPE FIXTURE
	SEE SCHD.	WALL OR BRACKET MOUNTED TYPE FIXTURE
	SEE SCHD.	LIGHTING TRACK & FIXTURES
	SEE SCHD.	EXIT SIGNAGE FIXTURE
	SEE SCHD.	EXIT SIGNAGE WITH DIRECTIONAL ARROWS
	SEE SCHD.	EXIT SIGNAGE WITH EMERGENCY FLOOD LIGHTS
	SEE SCHD.	BATTERY TYPE EGRESS FIXTURES
XXX	SEE SCHD.	LIGHTING FIXTURE TYPE ID / TAG- SEE LTG FIXTURE SCHEDULE

LIGHTING CONTROLS - MANUAL, LINE-VOLTAGE, HARD-WIRED

SYMBOLS	MTG UNO	GENERIC DESCRIPTIONS	RATINGS	MANUF. & SERIES LEGRAND/P&S- UNO
MANUAL DEVICES - LINE VOLTAGE TYPE				
Tx	48" AFF	(T)oggle Switch, 1= SPST; 2= 2PST; 3= 3-Way; 4= 4-Way	20A; Grnd 120V & 277V	PT-262-XX
Kx	48" AFF	(K)ey Operated Switch, 1= SPST; 2= 2PST; 3= 3-Way; 4= 4-Way	20A; Grnd 120V & 277V	PT-20AC-XX
Ix	48" AFF	(I)lluminated When On Switch (UNO), 1= SPST; 2= 2PST; 3= 3-Way; 4= 4-Way	20A; Grnd 120V & 277V	PT-262-XX
Ma	48" AFF	(M)omentary Contact Switch, 1-Pole 3-Position (a) Subscript Indicates Switching Group, Etc.	20A; Grnd 120V & 277V	TM811-DTMO-XX
DL	48" AFF	(D)immer Line Volt, (1/3) Way,Full-Off, Incand., CFL & LED; NEMA-SSL7, Forward Phs Dim.	120V, G 150W-CFL, 600W-I	Lutron Maestro C-L Dimmers
D0	48" AFF	(D)immer, 0-10V Analog Control; 1%-100%; On-Off Switch, Level Slider, Pwr-Fail Memory	0-10V Analog Control Wires	Lutron Diva Series
WS	48" AFF	(W)eather-(P) Toggle Switch, 1-Pole & WP Cover	20A,120V,277V,G	PT-262-XX & CA1GL
SM	48" AFF	Switch Motor Rated, NEMA 3R Enclosure	3 Pole, 30A, 600V	7803 Switch & 7833 Encls

COMMENTS & NOTES

1- Devices To Be UL20, Listed & Labeled Where Applicable.
2- Devices To Be NEMA WD-1 & WD-6 Compliant Where Applicable.
3- Devices To Be NFTA (Buy American) Where Avialable.
4- Devices To Be Legrand / P&S, PlugTail, Spec. Grade Devices, UNO.
5- Device Face To Decor Style Unless Not Available In Decor Style.
6- Provide Smooth Finish Matching P&S Trade-Master Grade Cover Plates.
7- Color As Selected By Owner / Tenant Or Architect.
8- Products Of Other Manufactures, Equivalent In Apperance, Features, Performance, Rating & Size, Are Acceptable.
09- Field Verify Exact Final Location Prior To Rough-Ins Per Archt., Owner/ User.
10- Control / Grouping Indicated By Lower Case Letters (i.e.-a,b,c)
11- Multiple Adjacent Devices Shall Be Mounted In Multi-Gang Box With Multi-Gang Cover

LIGHTING CONTROLS - SENSOR, LINE-VOLTAGE, HARD-WIRED

SYMBOLS	MTG UNO	GENERIC DESCRIPTIONS	RATINGS	MANUF. & SERIES HUBBELL - UNO
V1 V2	Wall Mt. 48" AFF	(V)acancy Sensor, (1/2) Ckt, PIR, Wall Mtd. Auto or Man On, Adjustable Time OFF	800W-F/I @ 120V 1200W-F @ 277V	(V1-1P) LHIRS1-xx-M (V2-2P) LHIRS2G-xx-M
VD	Wall Mt. 48" AFF	(V)acancy Sensor - (D)immer, 1-Ckt, 0-10V Dimm, PIR, Auto or Man On, Self-Adjusting Time OFF	800W-CFL- @ 120V 1200W-CFL- @ 277V	LightHawk2- LHD-IRS-3-N
U1 U2	Wall Mt. 48" AFF	(U)ltra-Sonic/PIR Dual Sensor, (1/2) Ckt, Self-Adaptive, Off Warning, Man/ Auto Select 20x15 Minor & 35x30 Major Motion Range	800W-I @ 120V 800W-F @ 120V 1200W-F @ 277V	(U1-1P) LHMTS1G-xx (U2-2P) LHMTDS2G-xx
P1 P2	Clg Mtd Per Manuf	(P)IR Occupancy Sensor, (1/2/x) Range, Power Pack, RFI & EMI Resistant, Adjust. Delay & Sensitivity P1- 500 Sq Ft, P2- 1200 Sq FT Coverage Range	24 VDC Sensor 20A, 120/ 277V Power Pack	(P1>500Sf) OMNI-IR (P2>1200Sf) OMNI-IRL
U2 U1 U3	Clg Mtd Per Manuf	(U)ltra-Sonic Sensor, (1/2/x) Range, Power Pack, RFI & EMI Resistant, Adjust. Delay & Sensitivity U1- 500 SF, U2-1100 SF, U3- 2200 SF Range	24 VDC Sensor 20A, 120/ 277V Power Pack	(U1>500Sf) OMNI-US500 (U2>1100Sf) OMNI-US1000 (U3>2200Sf) OMNI-US2000
DL	Clg Mtd Per Manuf	(D)ay(L)ight Switching (Non-Dim) Sensor, Closed-Loop Light Sensing,Matching Power Pack, RFI & EMI Resistant, Adjust. Delay & Sensitivity	24 VDC Sensor 20A, 120/ 277V Power Pack	NX-DS Sensor & NX-RC1RUNV Power-Pack
C#	Clg Mtd Per Manuf	(C)ombo (D)ual-Tech, US/PIR Sensor, Power Pack, RFI & EMI Resistant, Adjust. Delay & Sensitivity 360D-Sensing, 1000 & 2000 SF Range	24 VDC Sensor 20A, 120/ 277V Power Pack	(C1>1000Sf) OMNI-DT1000 (C2>2000Sf) OMNI-DT2000

COMMENTS & NOTES

01- Devices To Be UL20, Listed & Labeled Where Applicable.
02- Devices To Be NEMA WD-1 & WD-6 Compliant Where Applicable.
03- Devices To Be NFTA (Buy American) Where Avialable.
04- Devices To Be Hubbell, Spec. Grade Devices, UNO.
05- Color, If Option, Selected By Owner / Tenant Or Architect.
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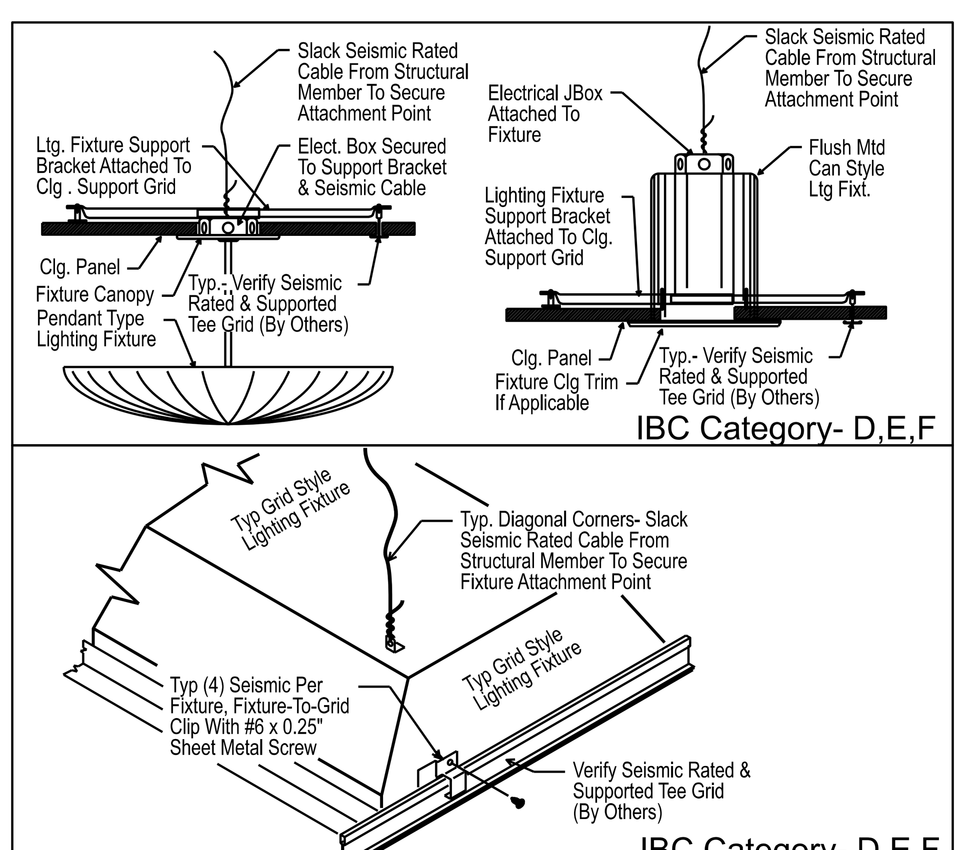

TYPICAL LTG. FIXT. SEISMIC SUPPORT

DETAIL # - MG — NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

Proj: **LaGrange Police Dept 2019 Mods** — Loc: **LaGrange, GA. 30240** — Smith Design Group, Inc — 19.08.12 Date — **Const** Status

Fixture Tag/ ID Designations- 1st Letter/ Prefix Denotes Fixture Type; X-Suffix Denotes Emergency Feature / Use/

* ID-Tag Designations> **1st** Letter (Prefix) Denotes Status (D-E-M-N-R), **2nd+** Letter Is The Item ID-Tag-Type; Suffix **"X"** Denotes An Emergency Use. **"c"**> Change-Out In-Place **"d"**> Demo; **"e"**> Existing Remains As Is; **"m"**> Modify Exist.; **"n"**> New; **"r"**> Relocated, Reuse Existing; **"v"**> Verify; (Field Verify Condition(s) Of Existing Fixtures).

Fixt ID	General Lighting Fixture Descriptions	Ttl Mean Lumens	Lamp Qty & Type	Ballast-Driver Type	Power V	Power VA	Mount. Notes	Item Notes	Manufacturer Series / Model	Revs #
*A	1x4 Basic LED Flat-Panel Ltg Fixture, High-Impact Translucent Polycarbonate Lens, White Aluminum Lens Frame, DLC, 5-Yr Warranty, L70> 60k-Hr	~ 4,000	LED, 80-CRI, 35k-CCT; L70>60kHrs	0-10V 1%-Dimm; 10%-THD; 0.95PF	UNV 120-277	40	FIC	-	Cloumbia Series: CFP-1x4-4035	-
*B	2x2 Basic LED Flat-Panel Ltg Fixture, High-Impact Translucent Polycarbonate Lens, White Aluminum Lens Frame, DLC, 5-Yr Warranty, L70> 60k-Hr	~ 3,380	LED, 80-CRI, 35k-CCT; L70>60kHrs	0-10V 1%-Dimm; 10%-THD; 0.95PF	UNV 120-277	32	FIC	-	Cloumbia Series: CFP-2x2-3335	-
*BG	Same As Type "B, Except Connected To Back-Up Generator Power System	~ 3,300	Ditto	Ditto	Ditto	32	FIC	-	Ditto	-
*C	2x4 Basic LED Flat-Panel Ltg Fixture, High-Impact Translucent Polycarbonate Lens, White Aluminum Lens Frame, DLC, 5-Yr Warranty, L70> 60k-Hr	~ 5,445	LED, 80-CRI, 35k-CCT; L70>60kHrs	0-10V 1%-Dimm; 10%-THD; 0.95PF	UNV 120-277	50	FIC	-	Cloumbia Series: CFP-2x4-5535	-
*D	Center Lens Fixt., 2x2- LED Lamp, Curved White Acrylic Lenses, 5-Yr.Warranty	~3,700	LED, 80-CRI, 35k-CCT; L80>60kHrs	0-10V 1%-Dimm; 10%-THD; 0.95PF	UNV 120-277	32	FIC	-	Columbia: LCAT-22-80CRI-35k-HL- G-Curve-NoAir-ED1-Unv	-
*DG	Same As Type "D, Except Connected To Back-Up Generator Power System	~3,700	Ditto	Ditto	Ditto	32	FIC	-	Ditto	-
*DX	Same As Type "D, Except With Self-Monitoiring Automatic Battery-Inverter Emergency Source	~3,700	Ditto	Ditto	Ditto	32	FIC	-	Ditto	-
*E	Center Lens Fixt., 2x4- LED Lamp, Curved White Acrylic Lenses, 5-Yr.Warranty	~5,600	LED, 80-CRI, 35k-CCT; L80>60kHrs	0-10V 1%-Dimm; 10%-THD; 0.95PF	UNV 120-277	44	FIC	-	Columbia: LCAT-24-80CRI-35k-HL- G-Curve-NoAir-ED1-Unv	-
*EG	Same As Type "E, Except Connected To Back-Up Generator Power System	~5,600	Ditto	Ditto	Ditto	44	FIC	-	Ditto	-
*F2	24L, LED Multi-Purpose Strip-Light, Curved Frosted Polycarb.Diffuser, Damp Location, 5-Yr Warranty. Occ-Sensor Fixt Mtd	~ 3.450	LED, 80-CRI, 35k-CCT; L80>60kHrs	Fixed; 10%-THD; 0.95PF	UNV 120-277	29	WM-SM-PH	-	Columbia Series **MPS** -02Ft 80CRI 35kCT ML CP W E	-
*F4	48L, LED Multi-Purpose Strip-Light, Curved Frosted Polycarb.Diffuser, Damp Location, 5-Yr Warranty. Occ-Sensor Fixt Mtd	~ 4,600	LED, 80-CRI, 35k-CCT; L80>60kHrs	Fixed; 10%-THD; 0.95PF	UNV 120-277	41	WM-SM-PH	-	Columbia Series **MPS** -04Ft 80CRI 35kCT ML CP W E	-
*G	05 Inch Dia Wet-Location LED Shower-Light; IC-Housing, White Trim Ring, Albalite Lens, Alzack Reflector & White Plastic Trim Ring; 5-Yr Warranty	900	LED, 85-CRI, 35k-CCT	Fixed 10%-THD; 0.95PF	120	15	FIC	-	Elite MaxiLume H5IC-LED-900L-Unv-MD-35CCT-85CRI-L501L-CL-WH	-
*H2	24L LED Dn+Up Lt. Wall Mtd, Steel Housing & End-Caps, 5-Yr. Warranty.. Curved Lens + Bamboo-Insert	~1,397-Lu	LED, 80-CRI, 35k-CCT; L80>60kHrs	0-10V 1%-Dimm; 10%-THD; 0.95PF	UNV 120-277	19	SM / SR Wall Mt Per Archt	-	Columbia Series: CWM 2 80 35k MW SM/SR DICB ED1 Unv	-
*H4	Same As Type "H2, Except 48-Inch Version	~2,835-Lu	LED, 80-CRI, 35k-CCT; L80>60kHrs	0-10V 1%-Dimm; 10%-THD; 0.95PF	UNV 120-277	38	SM / SR Wall Mt Per Archt	-	Columbia Series: CWM 4 80 35k MW SM/SR DICB ED1 Unv	-
*I	04 In.LED Dnlt, 45D Cut-Off, Diff-Lens, Satin-Haze Alzak Reflector & Trim Ring, Damp/Wet Location, 5-Yr Warranty, (Non-)Dimmable To 1%	1,500-Lu; M-Distb	LED, 90-CRI, 35k-CCT	Fixed / 0-10V 1%-Dimm; 10%-THD; 0.95PF	MV 120V 277V	20	FIC	-	Elite-MaxiLume: HH4-LED 1500-Lu Dim1% MVolt-M-Distb 35K 90-CRI 6501 CL-WH	-
*JX	4 Ft, VR, Auto-Bi-Level (50%/100%), LED, Linear VR Unit, Ribbed White Poly. Lens, DL-Label, UL-1598, UL-2108, DLC, LM79, LM80, TM21, 5-Yr Warranty. +Sensor, +Auto. Emerg. (1,400 Lumen Bat-Invert Unit)	~5,600 (Std)	LED, 80-CRI, 35k-CCT; L70>50kHrs	0-10V 1%-Dimm; 10%-THD; 0.95PF	Unv-120-277V	50 (Std)	WM Over Door Or Landing	-	New Star Series: **VIC**tory **4-Ft N 35** Std-Lu 35k 1C RW UV WH SD2 OC	-
*KX	12-24-48 Surface-Corner Mt. LED Security Grade, 18-Ga Steel, Polycarb. Lens (White-Interior + 0.250"-Exterior), Integral Drive(s), Tamper-Resistant Hardware, DL-Rated, Night-Light. Dimming Driver (0-10V, 1%-100%); Emerg Batt-Inverter (1350-Lu)	5,750	LED, 80-CRI, 35k-CCT; L80>60kHrs	2-Drivers; 0-10V 1%-Dimm; 10%-THD; 0.95PF	UNV 120-277	50	SM- Bolt To Clg Structural Per Manuf		NewStar Series: **55**4 18GaCRS LED-2Row 35k-CCT, 2-Driver, 25OCPL+ 125PA Unv E2 TH LN	
*L	LED Tape-Light, 18 LEDs A Foot, 120D-Light Distrib, 24V-DC, Field Cuttable. UL Wet Location (IP68 Wet & Dust) With Dimmable UL Class-2, Mtg. Hdwr & Related. Field Verify Lengths, Routing, Mounting, Etc. Before Ordering. Outdoor Corner Channel & Rouned Lens	425 Lumn Per Ft	LED, 85-CRI, 35k-CCT; 50-kHr Life	0-10V Dimming UL Power Supply, 100Watt, Wet-Location, -40C-60C	Dual 120, 277V	4.0-Watts A Ft;	See Archt Detail	-	Celestial Lighting Series: SERPENS-FS SER-FX-W35 & Related components	-
*M	Linear Flush 2 / 4Inch Slot Fixture, LED, Continuous Run (1-Inch Units), Frosted Acrylic Lens, Complete With All Related Hardware. Field Verify Final Exact Layouts & Lenghts. 5-Yr Warranty	500 Lu/Ft	LED, 80-CRI, 35k-CCT; L70>50kHrs	Matching 0-10V Dimming UL Power Supply	UNV 120-277	4.5 W/FT	FIC	-	Elite-Oracle Series: OLS-R-LED-4In	-
- -	- - - - -	- -	- - -	- - -	- -	- -	- -	- -	- - -	-

LIGHTING FIXTURE SCHEDULE

Proj: **LaGrange Police Dept 2019 Mods** — Loc: **LaGrange, GA. 30240** — Smith Design Group, Inc — 19.08.12 Date — **Const** Status

Fixt ID	Wet-Location Outdoor (W_") Lighting Fixture Descriptions	Ttl Mean Lumens	Lamp Qty & Type	Ballast-Driver Type	Power V	Power VA	Mount. Notes	Item Notes	Manufacturer Series / Model	Revs #
WA	06 In.LED Dnlt, 45D Cut-Off, Diff-Lens, Satin-Haze Alzak Reflector & Trim Ring, Damp/Wet Location, 5-Yr Warranty, (Non-)Dimmable To 1%	1,500-Lu; M-Distb	LED, 90-CRI, 35k-CCT	Fixed / 0-10V 1%-Dimm; 10%-THD; 0.95PF	MV 120V 277V	20	FIC	-	Elite-MaxiLume: HH6-LED 1500-Lu Dim1% MVolt-M-Distb 35K 90-CRI 6501 CL-WH	-
WB	"Decorative LED Wall Mtd. 20_Inch Dia. White Globe With "POLICE" In Balck Letters, 36 Inch OAH, Decorative Wall Bracket; Wet-Location Listed; Verify With Archt-Owner Prior TO Ordering	Existing	Existing	Existing	120	Verify	Existing	-	Existing To Remain & Be Reused, Clean & Relamp, Connect To New Ckts/	-
WC	Flag & Pole Small Flood Lt, LED, Wet Location Labeled, Tempered Glass Lens, Glare-Sheild, Yoke-Mount, Dark-Bronze Finish, Surge-Prot., 5-Yr.Warr, Beam-Spread NEMA 3x3	~4,900L	LED, 70-CRI, 50k-CCT	LED Driver & Power Supply Per Manuf	UNV 120V 277V	52	Concrete Base, Aim		Hubbell Series FML-LED: 52, 4k, 3x3, Unv, K, DB-SP	-
WD	UL-Wet-Location, LED Medium Wall Pack, Full-Cut-Off, Die-Cast AL Housing; Verify Per Archt-Own: Finish> Bronze; Comfort-Sheild	3,806 (18)	LED, 70-CRI, 40-kCCT, 2,3,4,FT-Distb, 60k Hrs Life	Fixed; 10%-THD; 0.95PF, TVSS	UV 120-277	42(18)	High As Possible	-	Hubbell Series: LNC2, 4k-CCT, xx-DC-LED, xx-Distb, Unv, Std Mtg, ##-Finish+ CS+PCU, SCP@ xx-Ft, EH	-
WE	Surface LED On Exist canopy Box)								Inspect, Clean & Relamp	
WF	LED Wet-Location (IP65), Linear Facade-Sign Floodlight, Asymmetric Reflector,Single Run As Shown, Bracket Mtg. Complete With All Matching Hardware, Decorative End-Caps & Lens-Sheild; Surge Protected - 30C Rated Driver(s). Std.Finish As Selected By Archt-Owner (Weathered-Bronze UNO). Make Final Light Aiming Adjustments At Night With Archt-Owner.	~ 2,650 Lu/ Ft	LED, 80-CRI, 40k-CCT	Fixed; 10%-THD; 0.95PF	UNV-120-277	30 W/LF	Arm-Mount, High Wall; Per Archt Detail	- -	Hubbell Archt. Area Lighting Series: Pivot PV-LED 2800 - LK-5300L-xxInch-40K-Arms-Finish-EFW-SLD	-
WP1	Acorn Style Period Lumnaire On Decorative Cast Alumn. Post. 15 Dia-32High, Stipple Acrylic Refractor With Decorative Perf. RIng & Top Finials & Mtg Post Adaptor. Finish (Black) Per Archt-Owner	7,676-Lu; LM80> 60k-Hrs	LED, 35k-CCT, 85+-CRI; Distb> Type 3~5; Night-Sky; LM80> 50kHrs	Fixed; 10%-THD; 0.95PF, TVSS	UNV-120-277	100	On Top Brick Pier See Archt Dtls.	- -	Sternberg Ltg: Globe A750-ASR-R1-LED-CDR; Fitter: 5P-PT; Pole: 62-12-TFP6; 6ARC45T_-MDL03-Black Finish Per Archt/Owner	-
WP2	Same As Type "WP1" Except No Post, Mtd. On Top Of Brick Pier	Ditto	Ditto	Ditto	Ditto	Ditto	Ditto	- -	Ditto	
WP3	Same As Type "WP1" Except No Post, Wall Bracket Mtd	Ditto	Ditto	Ditto	Ditto	Ditto	Ditto	- -	Ditto	
- -	- - - - -	- -	- - -	- - -	- -	- -	- -	- -	- - -	-

Fixt ID	Exit Signs & Emergency Ltg. Units ("X__") Fixture Descriptions	Ft 1 FC Avg	Unit Heads Qty & Type	Unit Battery	Power V	Power VA	Mount. Notes	Item Notes	Manufacturer Series / Model	Revs #
X0	Dual-Mode LED Extr AC+ Batt.Egress Unit, Cast Alumn, VR, IP-66 / 3R Rated, _4F>104F, 5-Yr.Full Warr; Self-Test-Monitor-Alarm, Std. Color Per Archt-Owner; Wide / Forward Throw; Time-Delay, Photo-Cell	**Avg.1.0-FC @ 15-MH; 6x40Ft;**	**640**-Lumen, 6.0 W-LED Heads; 50-kHrs	Nick-Metal Hydride	UNV-120V-277V	3 / 15(Hr)	WM Abv Door	1	LightAlarms Camray LED: CAM-ACSD-Color-FT-PC-T3	-
X1	BLACK Thermoplastic Emerg. Ltg. Unit; 2-LED MR16 Heads, UL924+NFPA101 Self-Diagnostic-Testing. 3-Yr Full & 5-Yr Pro-Rata Warranty	na	(2) 3.6V-3.6W LED-MR16, 50k Hr Life	3.6-V Nickle-Metal-Hydride	UNV-120, 277	7.5	Clg / WM High	1	LightAlarms: LCA-2LED	-
X2	Compact BLACK Thermoplastic Emerg. Ltg. Unit; LED NiCad Battery, 5-Yr.Full-Warr; UL924+NFPA101 Self-Diagnostic-Testing, Vandal-Resistiant.	1.0-FC; 15-Hi, 80-OC	**(2) 540**-Lumen, 6.0 W-LED MR16 Heads	12 VDC Sealed Lead-Calcium	UNV-120, 277	7.5	Clg or WM @ 15'-0" High	1	LightAlarms Compact-Grande Series: 2Hd-MGR12N4-(2) LD10-W/B-ID-T3-DL +CM/PM	-
XU	Combo LED Exit Sign, 1/2 Face, 2-Adjust LED Heads, Univ Mtg. Batt-Back-Up, Red Ltr, Arrows As Needed, Self-Test-Alarm, 3-Yr. Warranty; BLACK; (17W 13H 04D)	~ 89 OC, 07 MH	(2) 6.0 W-LED MR16 Heads; 80Cx15Hx06W	12 VDC- Lead-Calcium With Self-Diagnostics	UNV	5	UM	1	LightAlarms GRANDE Series: GR-1224M-R-U-X-2HD-LD10-ID	-
- -	- - - - -	- -	- - -	- - -	- -	- -	- -	- -	- - -	-

SPECIFIC ITEM NOTES

1-	Connect Emerg Life-Safety Battery To Local Unswitched Ltg. Ckt. Power Source	2-	Refer To Interior Lighting Plans & Schedules For Details.
3-		4-	

GENERAL NOTES - APPLICABLE TO ALL

A-	Document Training Personell In NFPA-101 Testing Stds. For Egress & Exit Lights.	B-	Instruct Owner-Tenant In Any Dimming Controls Operations.
C-		D-	

Misc. Abbreviations		Lamp / Ballast / Driver Terms		Mounting Terms	
FBO-	Furnished By Owner Complete U.N.O.	CRI	Color Rending Index (Of Lamp)	BFC-	Below Finished Ceiling
FMC-	Fixt. Material Cost With Lamps & Hardware Complete	xx K	Kelvin (Lamp Color)	CB-	Concrete Base- See Details
IBC -	Installed Complete By Contractor, U.N.O.	Lum	Lumens (Lamp Light Output)	FIC-	Flush In Ceiling
		mA	Milli-Amp (LED Driver Rating)	FIG-	Flush In Grade
		PS	Programmed Start		
PBC-	Provided By Contractor	STA	Self-Test & Alarm	PH-	Pend.Hung,Htg As Ntd; Per Archt.
SBO-	Selected By Owner	RS	Rapid Start	SM-	Surface Mtd On Ceiling Or Structure
		THD	Total Harmonic Distortion Max.	WM-	Wall Mtd- Htg As Noted; Per Archt.

ALTERNATES / PRIOR APPROVAL REQUEST

AA Project Base Quote Shall Be Based On The Lighting As Scheduled & Specified.
AB Lighting Products Of Other Manufactures May Be Submitted As Add Or Deduct Alternates, Complete With Labeled Fixtures & Lampe Data, Cut-Sheets & Any Variations

SUBMITTALS REQUIRED

SA A Complete Submittal Is Required, Including Cover-Page, Bill-Of-Materials, & Individual Product Data. **The Submittal Shall Bear The "Compliance Statement" &**
SB Each Items Cut-Sheet Shall be Labeled With Specific Choices Marked, Including Lamp Data, Indicating Full Compliance With The Criteria-Specification Requirements.

MADDOX GROUP INC. — End Of Lighting Fixture Schedule - See Lighting Criteria — 19-121

Architect's Stamp

Signature Required

SMITH DESIGN GROUP, INC.
206 WEST HARALSON ST
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706-882-5511 www.SDGarch.net

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maddoxgroup@comcast.net

TMG Job #: 19-121

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THE MADDOX GROUP, INC.
DESIGN & ENGINEERING CONSULTANTS

GEORGIA REGISTERED No 13254 PROFESSIONAL ENGINEER ROBERT M MADDOX 2019 08.12

Revisions #	Date	Description

Project Title:

RENOVATIONS TO LAGRANGE POLICE DEPT

100 West Haralson St.
LaGrange, GA. 30240

Sheet Title:

LIGHTING SCHEDULES SYMBOLS & RELATED

Modified Date: 2019.08.12

SDG Job No: 1911

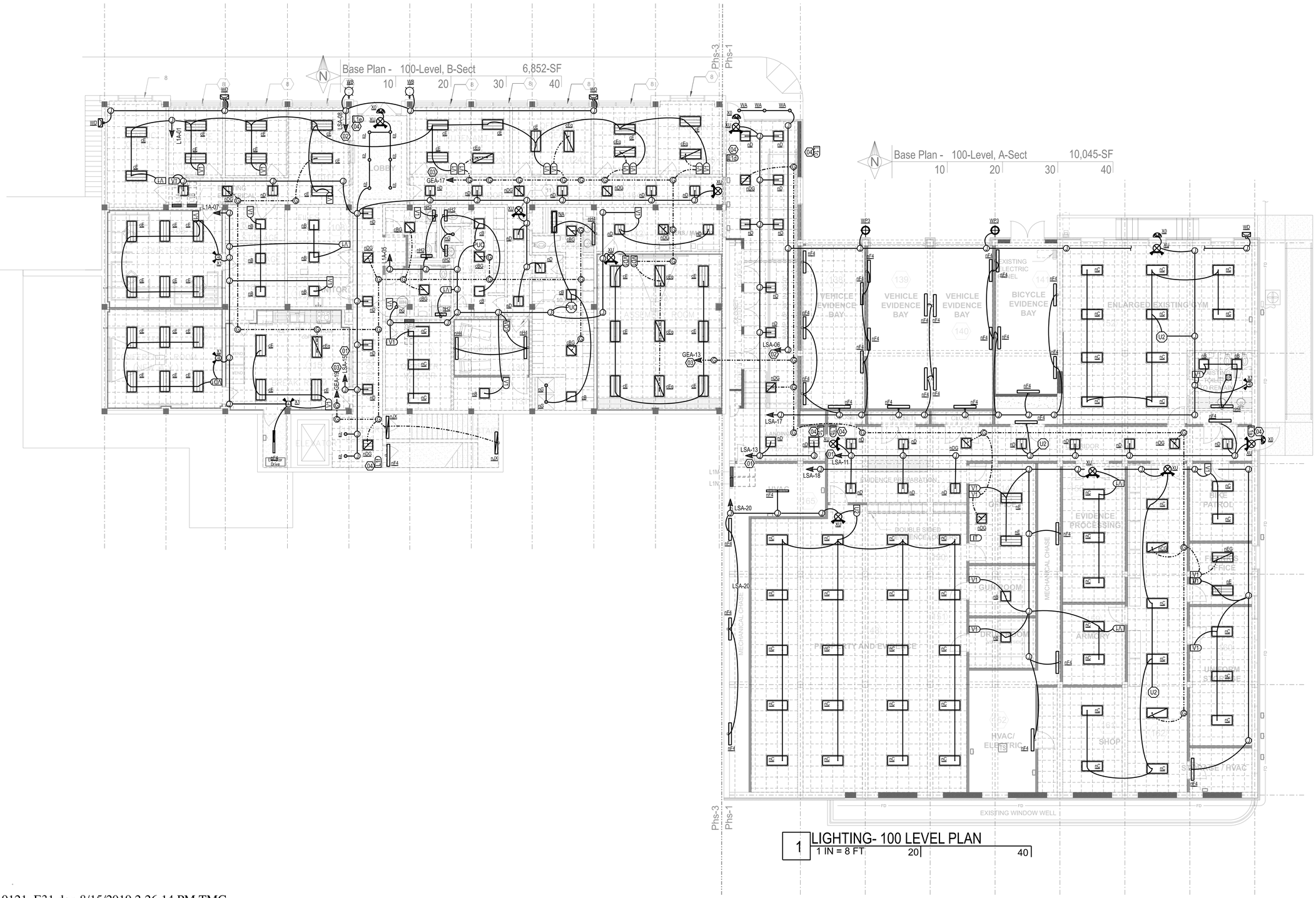
Issued Date: Bid & Permit 2019.08.12

Sheet: E-30

19121_E30.dgn 8/15/2019 2:29:46 PM TMG

24x36

LEGEnD NOTES		
19.08.12	LaGrange Police Dept 2019 Mods	
#	Rv	LEGEND NOTES: E-3	CO
01	-	HALL LTG CKT: Extend Ckt Thru Ltg Relay Panel, Hall Ltg Relay & Control	
02	-	EXTERIOR LTG CKT: Extend Ckt Thru Ltg Relay Panel, Exterior Ltg Relay & Control	
03	-	GENERATOR (OPTIONAL STAND-BY): This Circuit Is Powered By Normal & Generator Via EGx Pnl	
04	-	LV CONTROL STATION: LV Wall Control Station, Flush-Mtd, 48" AFF (UNO), Extend LV Wiring T LV Relay Panel Connect & Program Controls To Respective Relays.	
- -	-	- - - - - -	- -
19-121		End Of Legend Notes	



1 LIGHTING- 100 LEVEL PLAN
1 IN = 8 FT

Architect's Stamp

Signature Required

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THE MADDOX GROUP, INC.
DESIGN & ENGINEERING CONSULTANTS

Revisions

#	Date	Description

Project Title:

RENOVATIONS TO
LAGRANGE POLICE DEPT

100 West Haralson St.
LaGrange, GA. 30240

Sheet Title:

LIGHTING
100 LEVEL PLAN

Modified Date:	SDG Job No:
2019.08.12	1911
Issued Date:	Sheet:
Bid & Permit 2019.08.12	E-3.1

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24x36

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LEGEND NOTES

19.08.12		LaGrange Police Dept 2019 Mods	
#	Rv	LEGEND NOTES: E-3	CO
01	-	HALL LTG CKT: Extend Ckt Thru Ltg Relay Panel, Hall Ltg Relay & Control	
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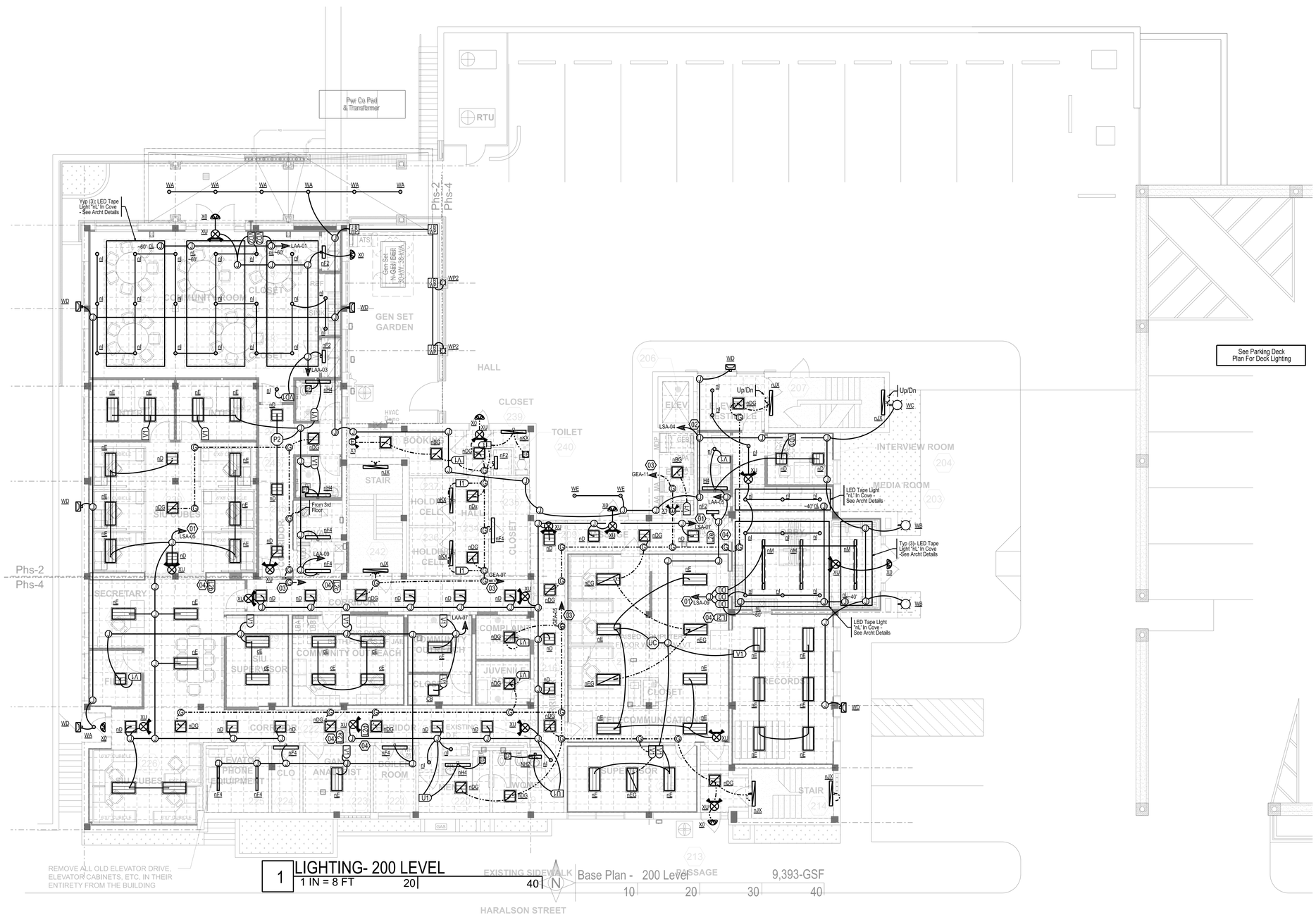
19-121		End Of Legend Notes	



1 LIGHTING- 200 LEVEL
1 IN = 8 FT 20 40

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Revisions

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Project Title:

RENOVATIONS TO
LAGRANGE POLICE DEPT

100 West Haralson St.
LaGrange, GA. 30240

Sheet Title:

LIGHTING
200 LEVEL PLAN

Modified Date:	SDG Job No:
2019.08.12	1911
Issued Date: Bid & Permit 2019.08.12	Sheet: E-3.2

LEGEnD NOTES

19.08.12		LaGrange Police Dept 2019 Mods	
#	Rv	LEGEND NOTES: E-3	CO
01	-	HALL LTG CKT: Extend Ckt Thru Ltg Relay Panel, Hall Ltg Relay & Control	
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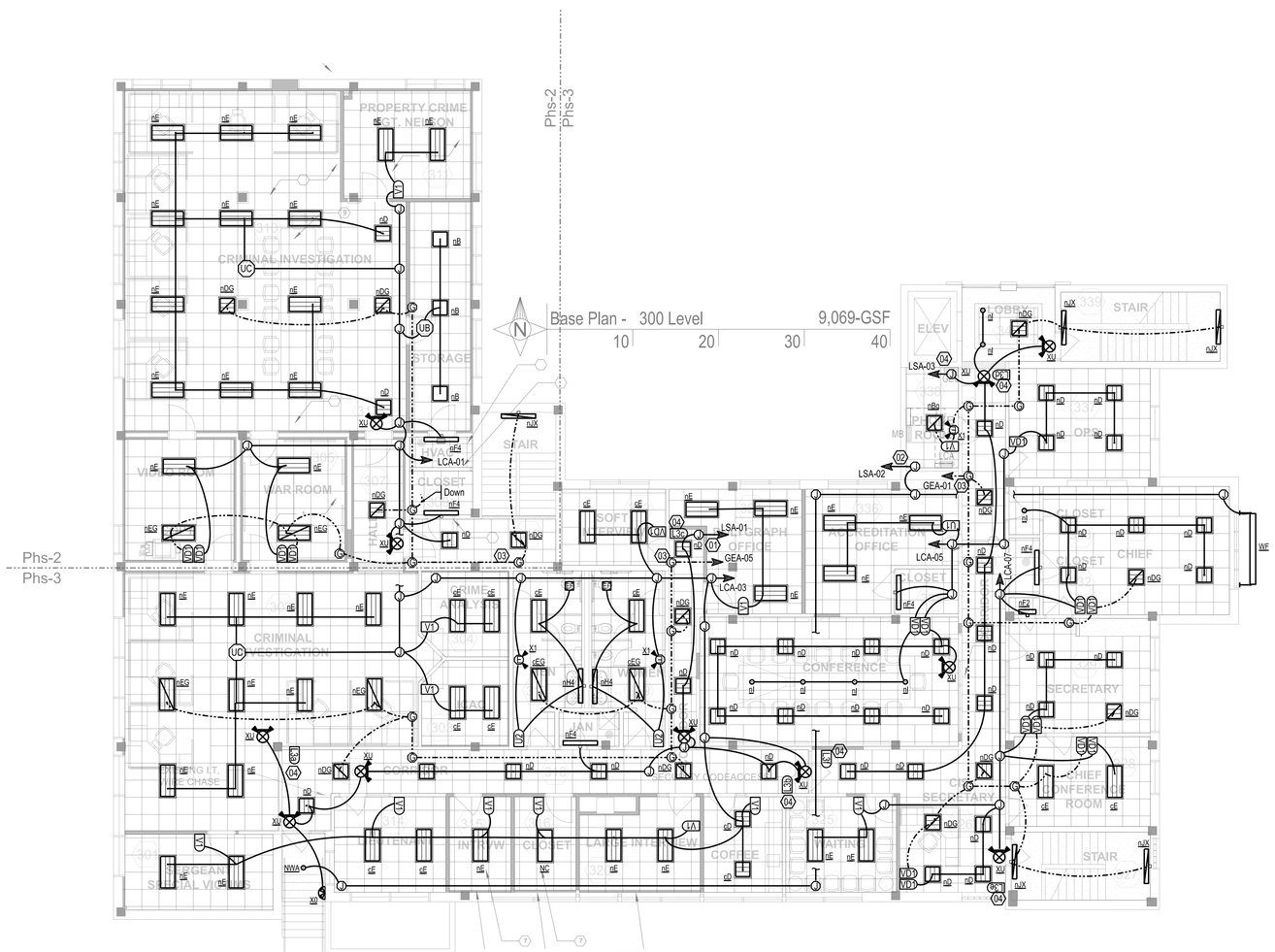
- -	-	- - - - - -	- -
19-121		End Of Legend Notes	



1 LIGHTING- 300 LEVEL
1 IN = 8 FT

Architect's Stamp

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TMG Job #: 19-121
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THE MADDOX GROUP, INC.
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Revisions

#	Date	Description

Project Title:

RENOVATIONS TO
LAGRANGE POLICE DEPT

100 West Haralson St.
LaGrange, GA. 30240

Sheet Title:

LIGHTING
300 LEVEL PLAN

Modified Date:	SDG Job No:
2019.08.12	1911
Issued Date: Bid & Permit 2019.08.12	Sheet: E-3.3