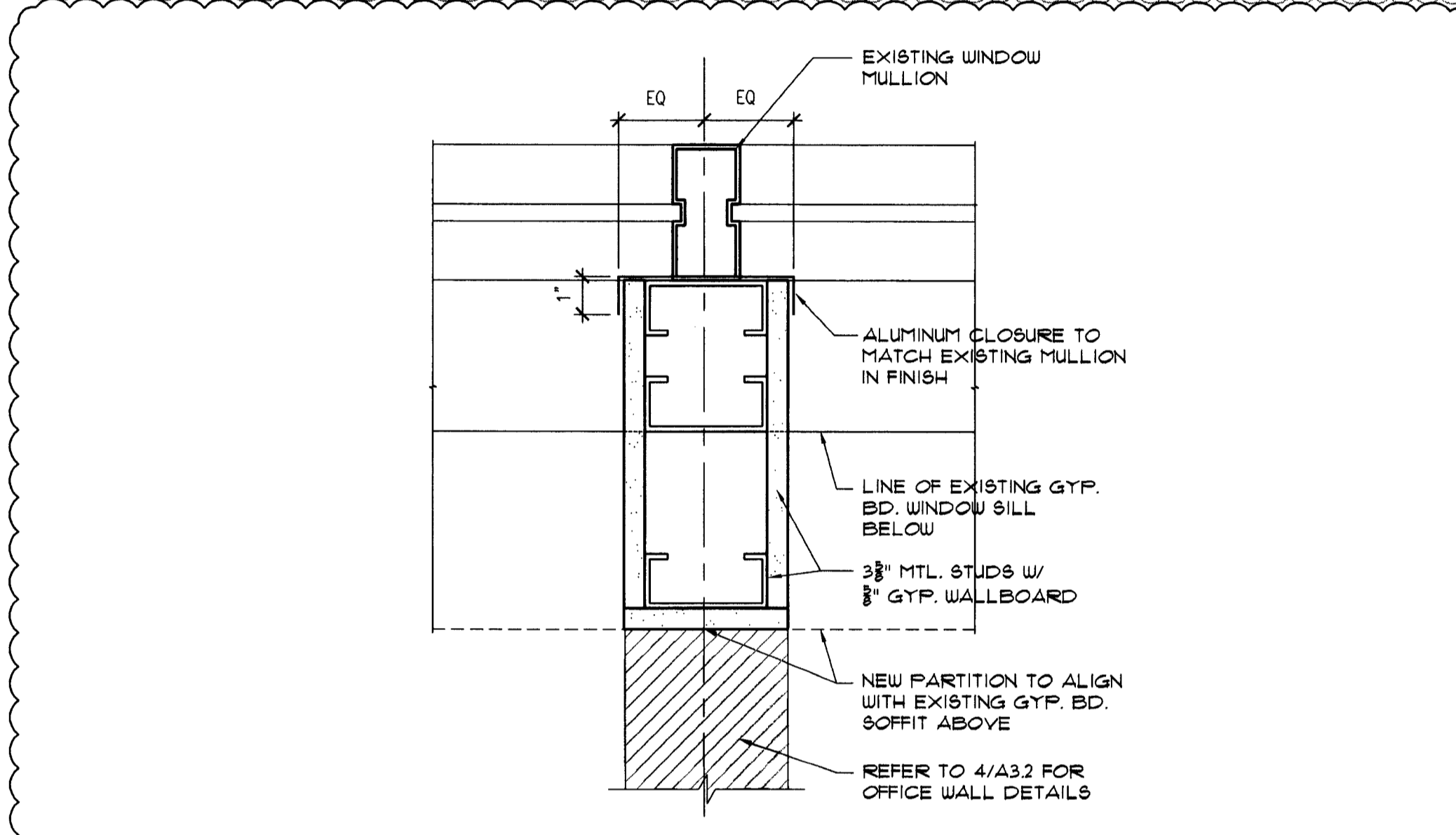


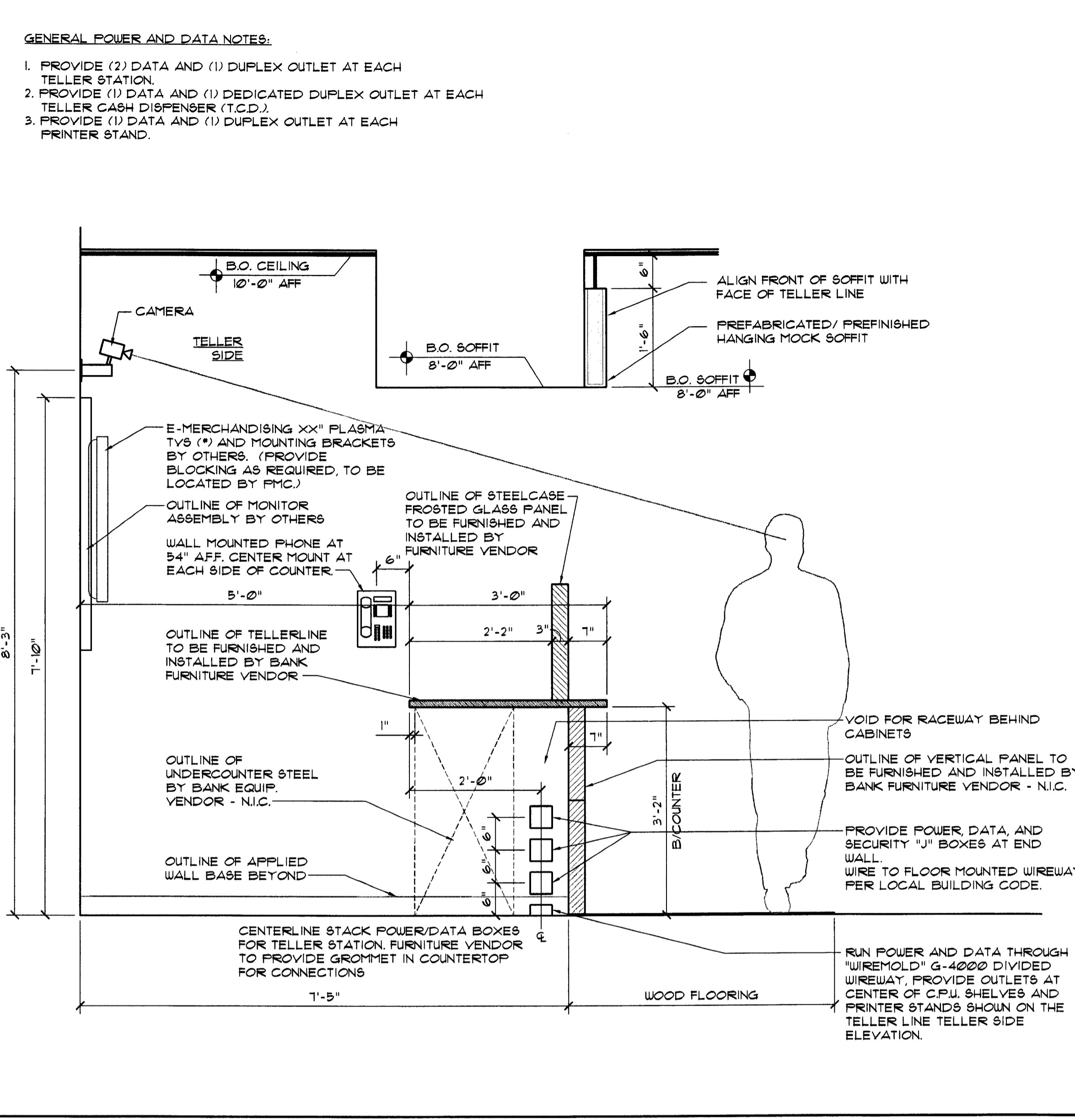
1B TELLER (MOCK) SOFFIT DETAIL

SCALE: 3/4" = 1'-0"



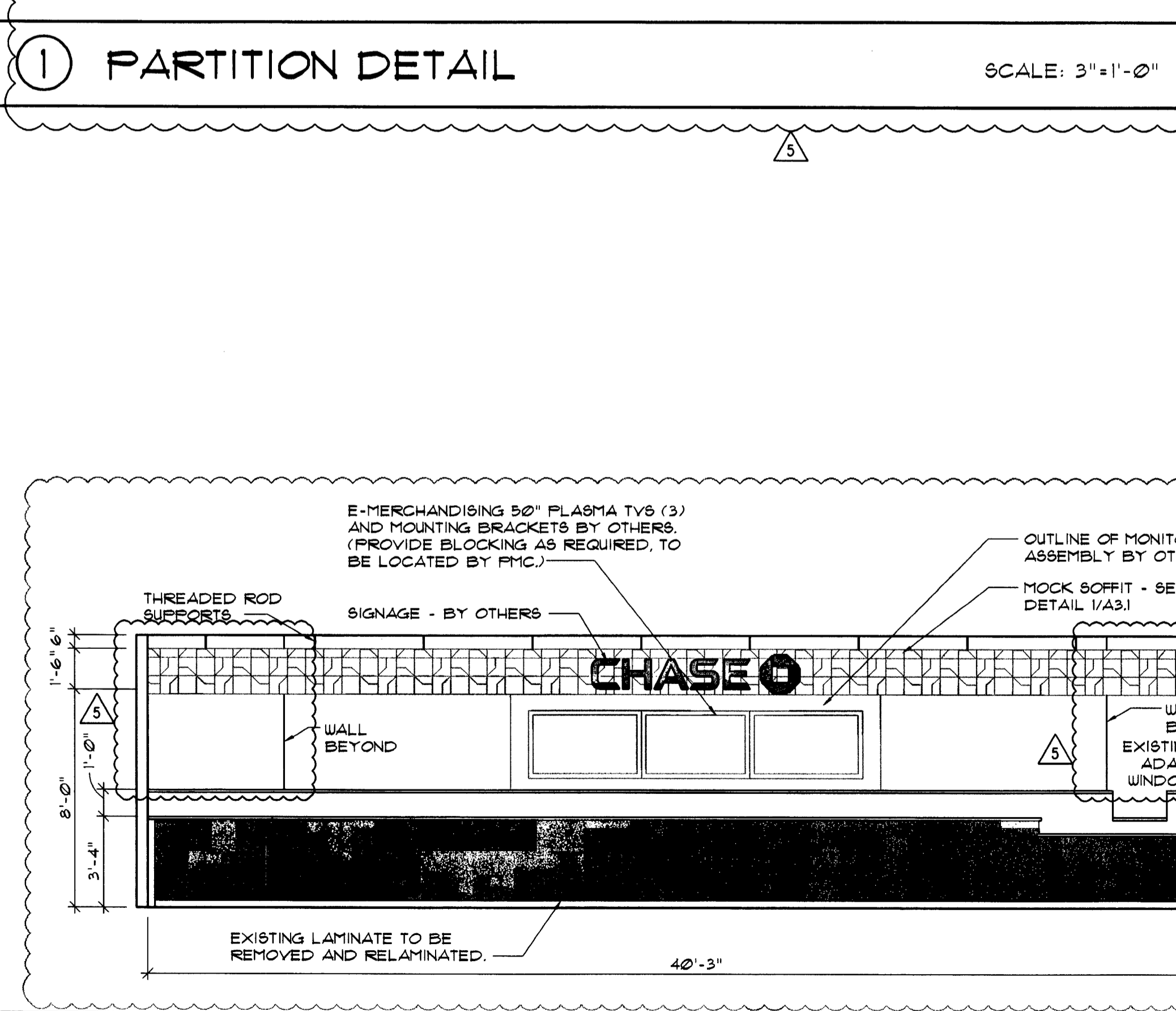
1 PARTITION DETAIL

SCALE: 3" = 1'-0"



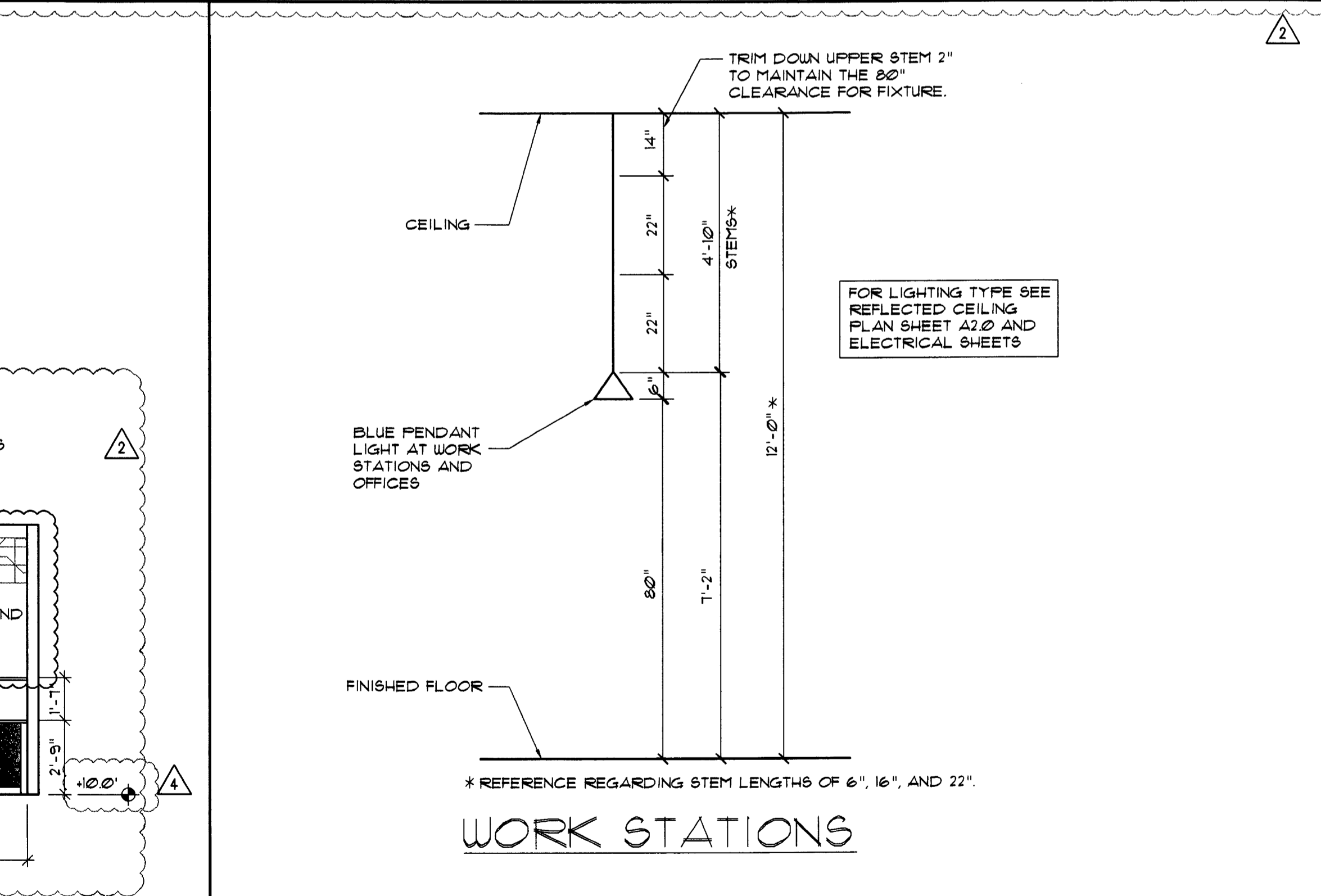
3 TELLERLINE SECTION

SCALE: 3/4" = 1'-0"



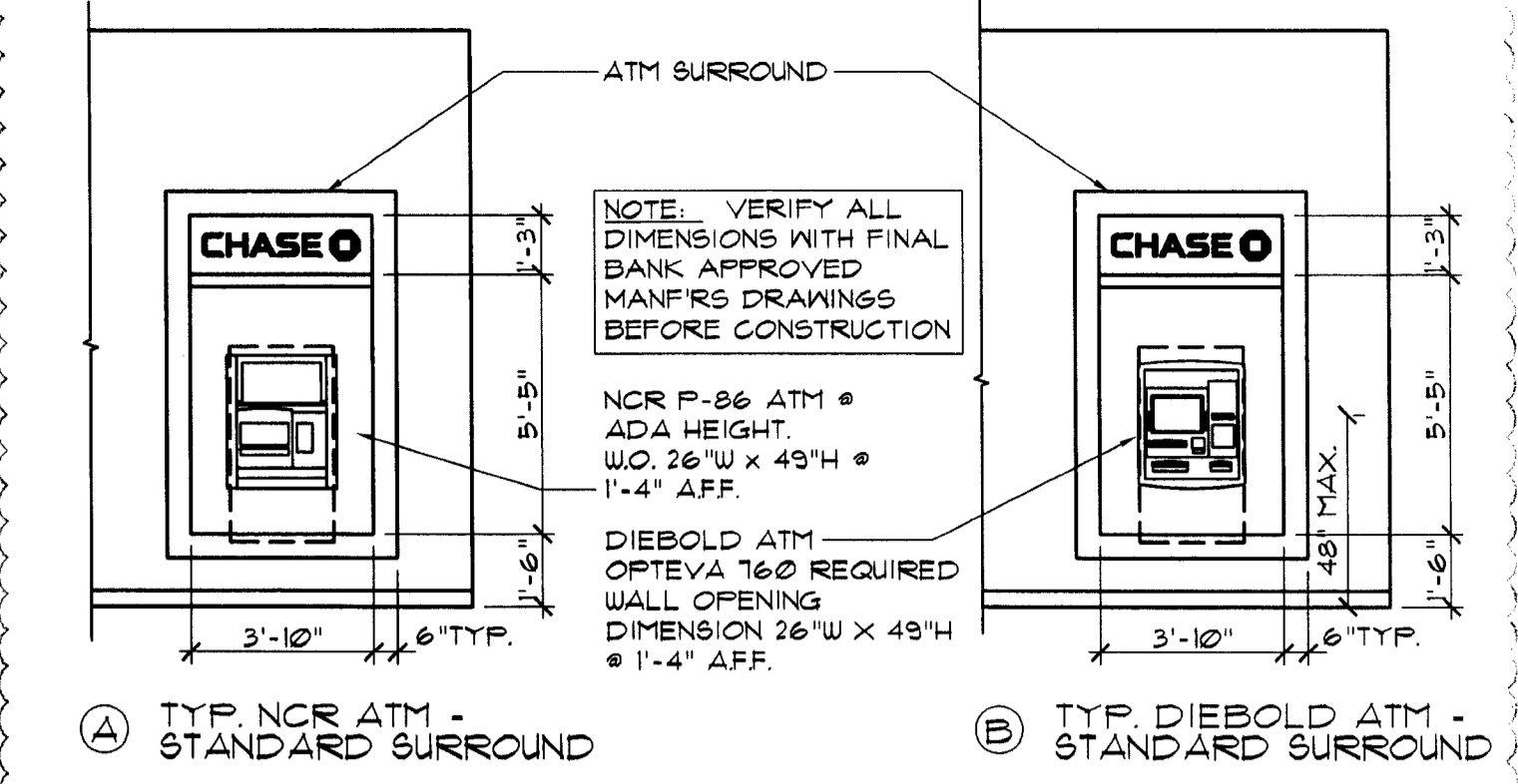
2 TELLERLINE ELEVATIONS WITHOUT BR GLASS

SCALE: 1/4" = 1'-0"

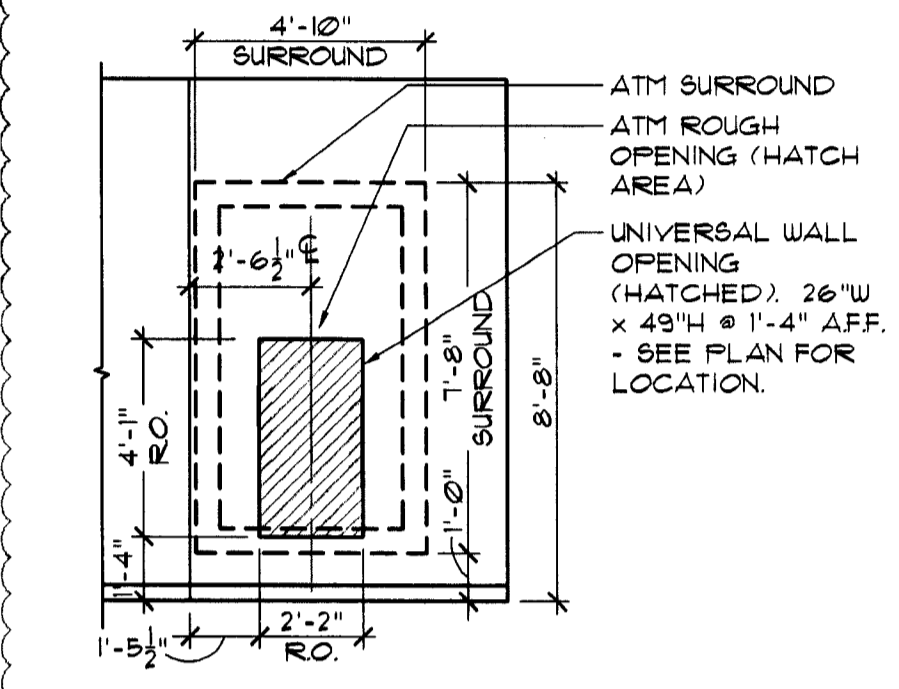


4 PENDANT LIGHT (MOUNTING HEIGHT AND STEM SIZING)

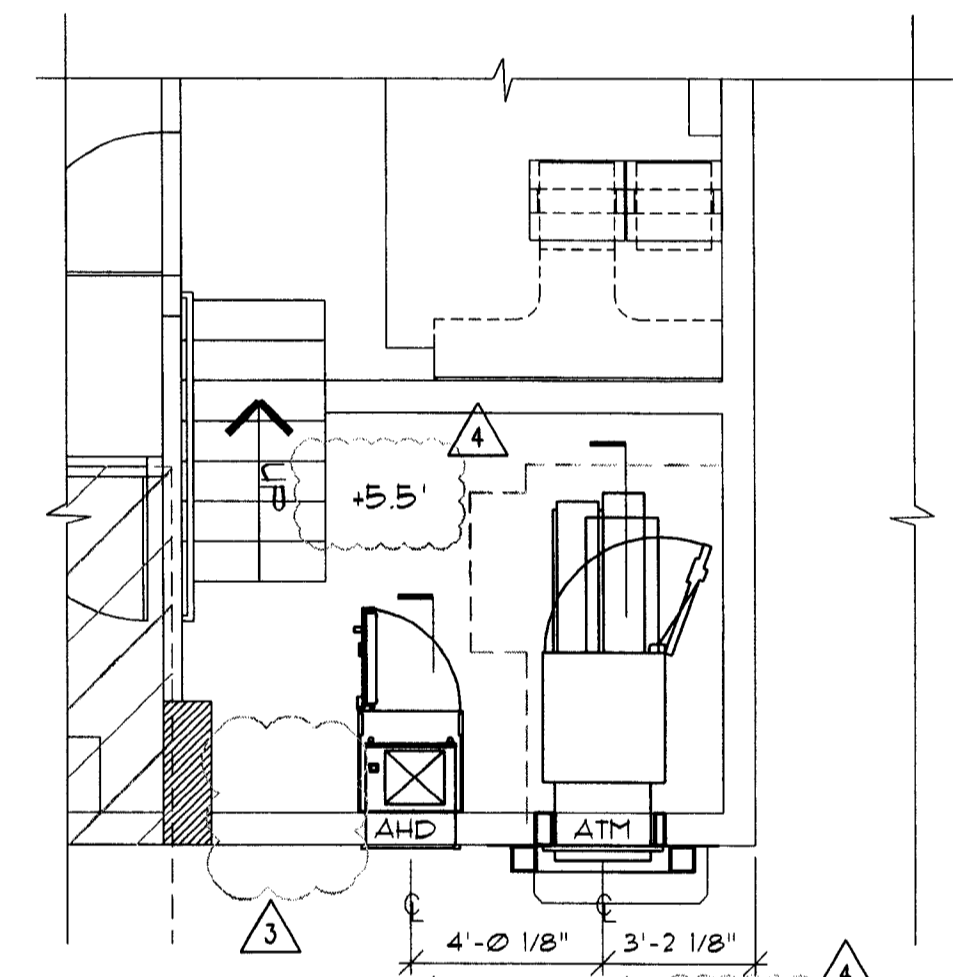
SCALE: 1/2" = 1'-0"



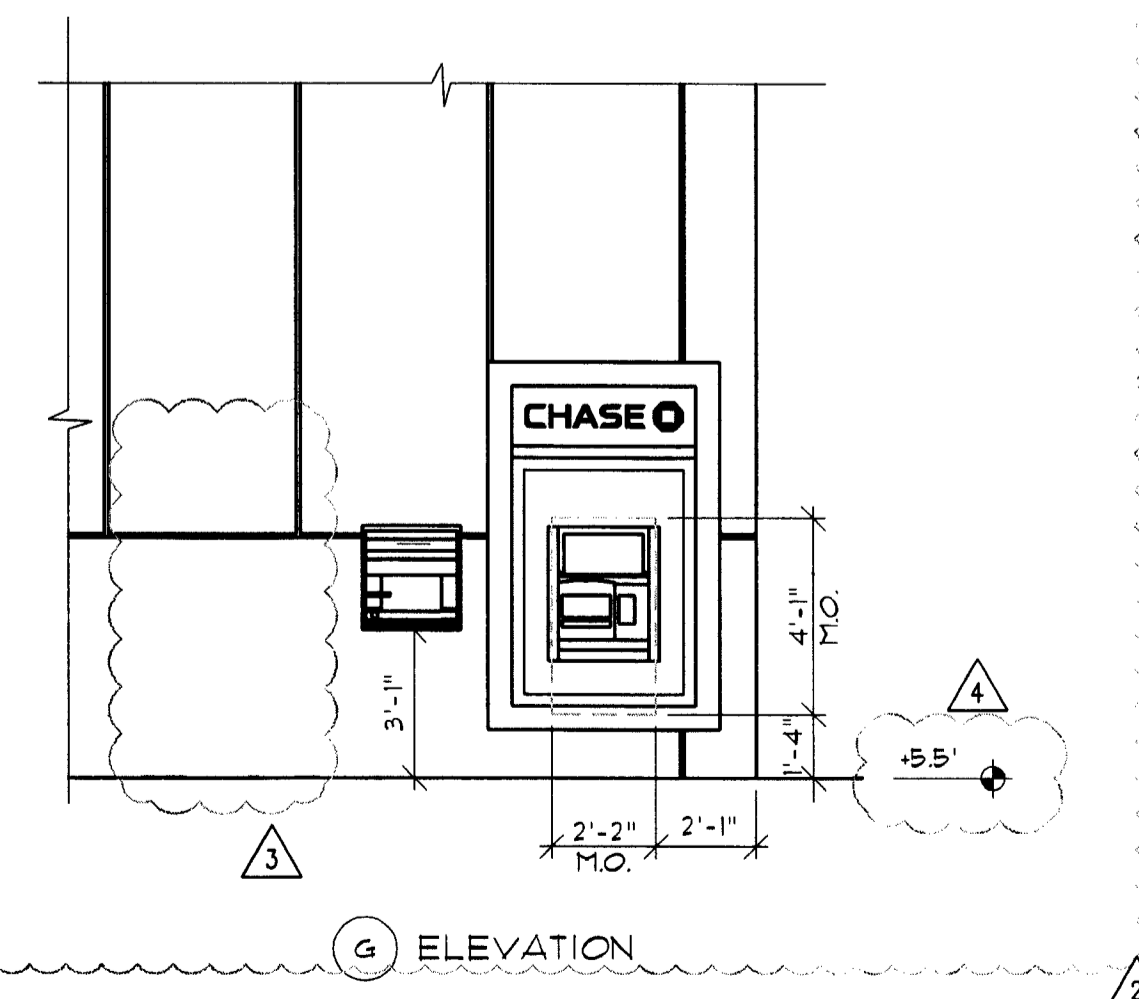
A TYP. NCR ATM - STANDARD SURROUND **B TYP. DIEBOLD ATM - STANDARD SURROUND**



C TYP. ATM ROUGH OPENING - STANDARD SURROUND



F PLAN



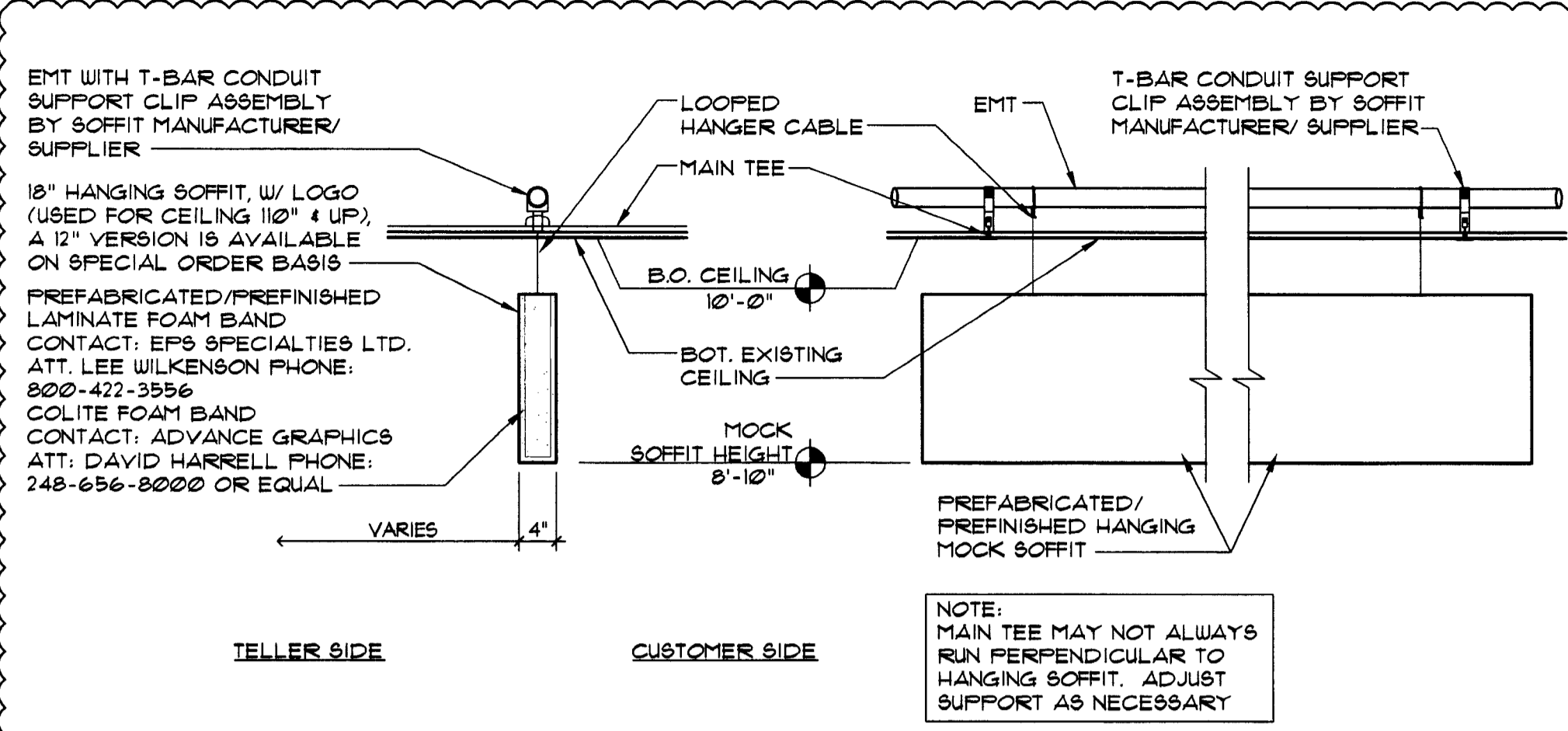
G ELEVATION

5 ATM WALL OPENING DETAILS

SCALE: 1/4" = 1'-0"

REVISIONS:

NO.	DATE	REMARKS
2	06-09-09	OWNER REVISIONS
3	05-30-09	OWNER REVISIONS
4	07-28-09	PERMIT COMMENTS
5	10-05-09	PERMIT COMMENTS

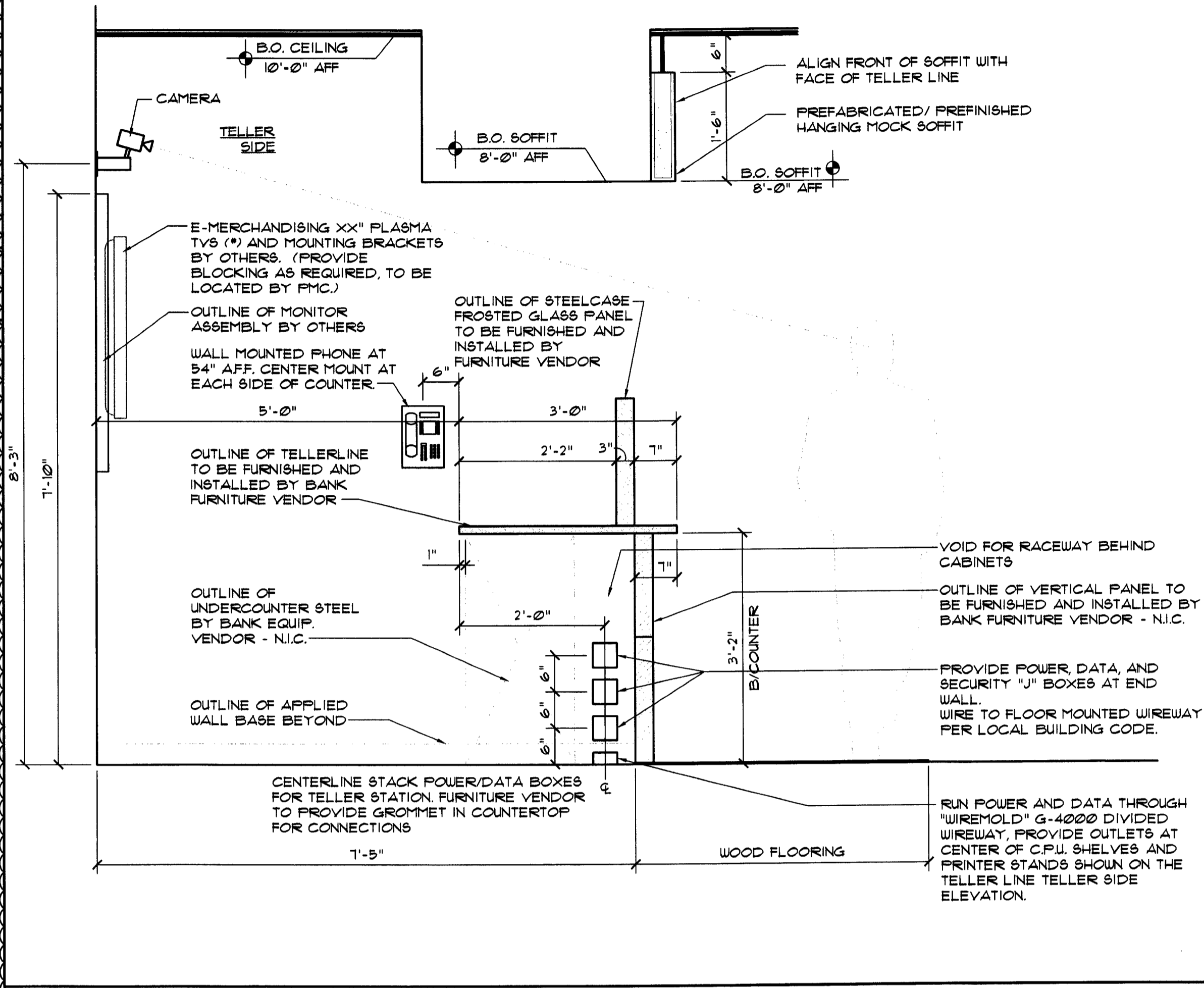


(B) TELLER (MOCK) SOFFIT DETAIL

SCALE: 3/4" = 1'-0"

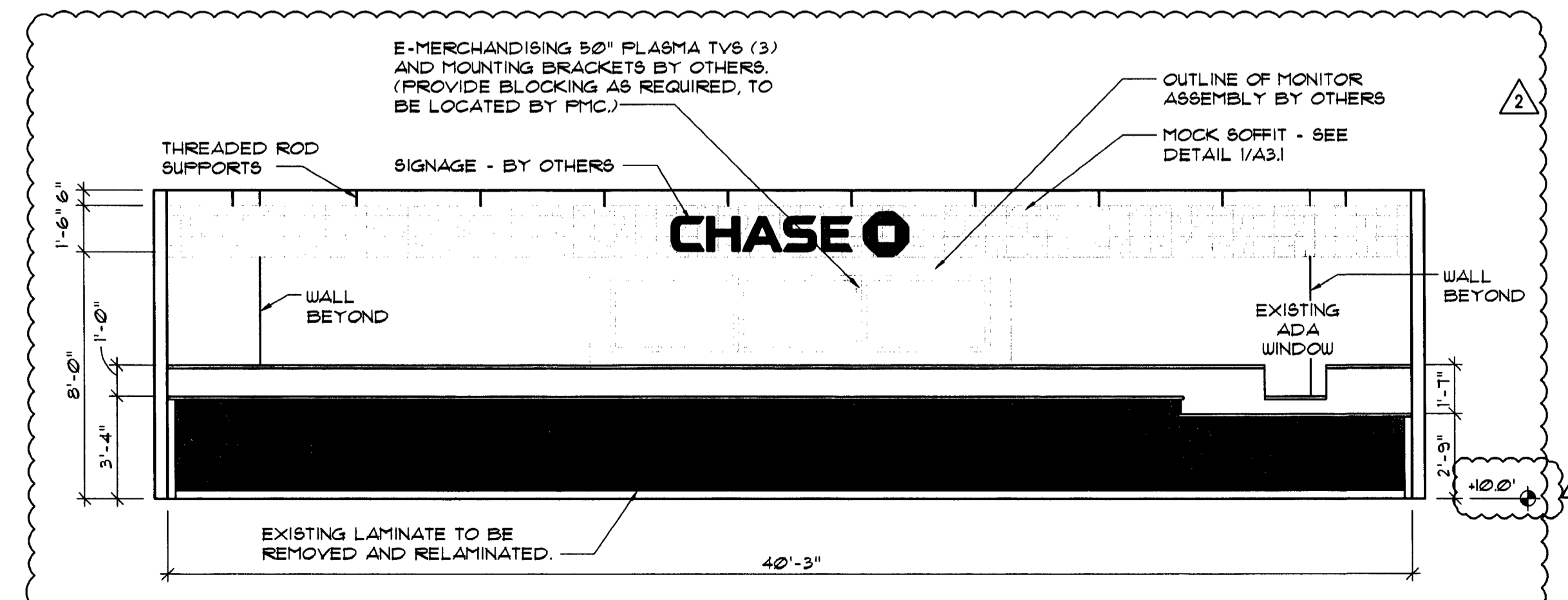
GENERAL POWER AND DATA NOTES:

1. PROVIDE (2) DATA AND (1) DUPLEX OUTLET AT EACH TELLER STATION.
2. PROVIDE (1) DATA AND (1) DEDICATED DUPLEX OUTLET AT EACH TELLER CASH DISPENSER (T.C.D.).
3. PROVIDE (1) DATA AND (1) DUPLEX OUTLET AT EACH PRINTER STAND.



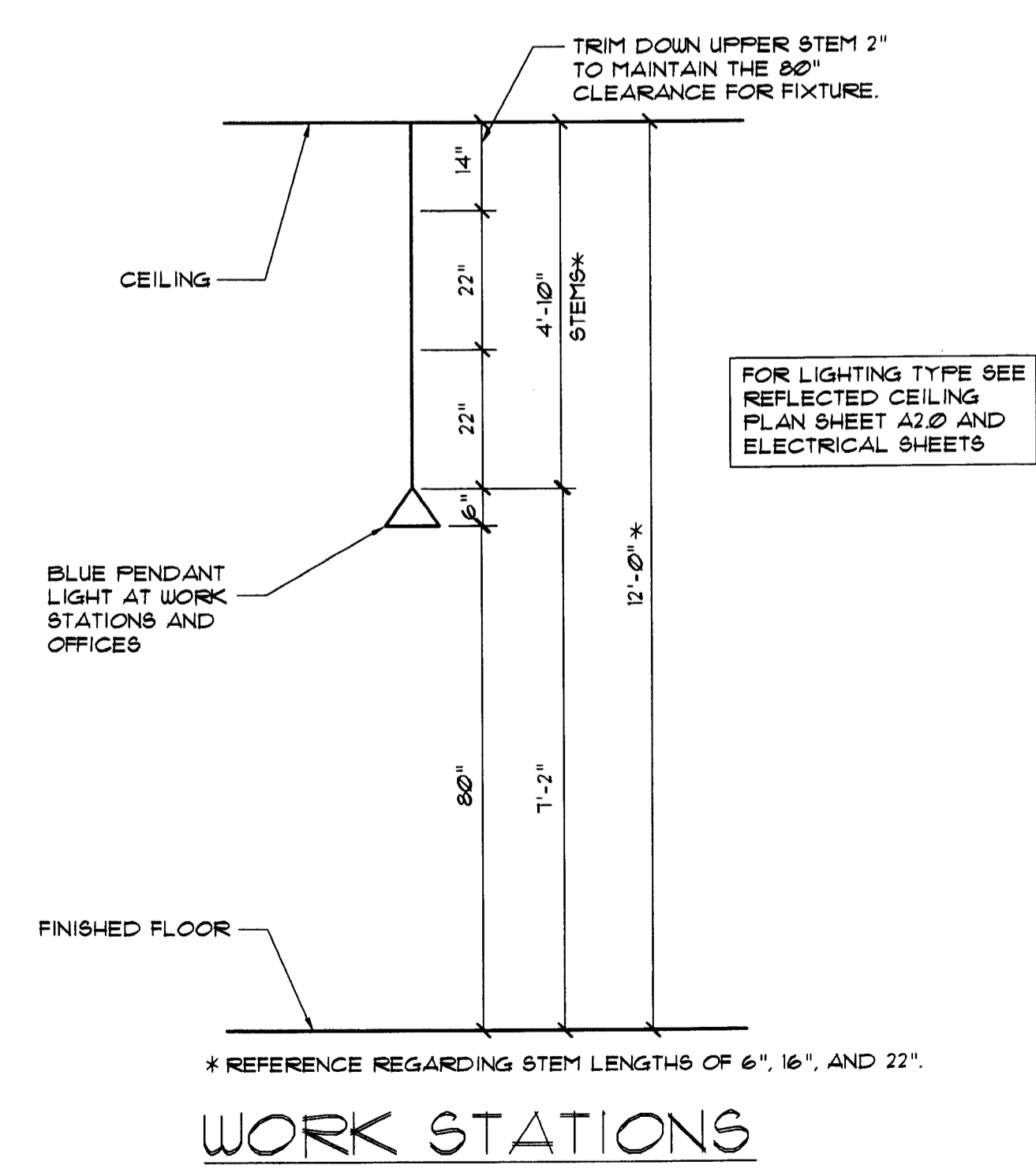
(3) TELLERLINE SECTION

SCALE: 3/4" = 1'-0"



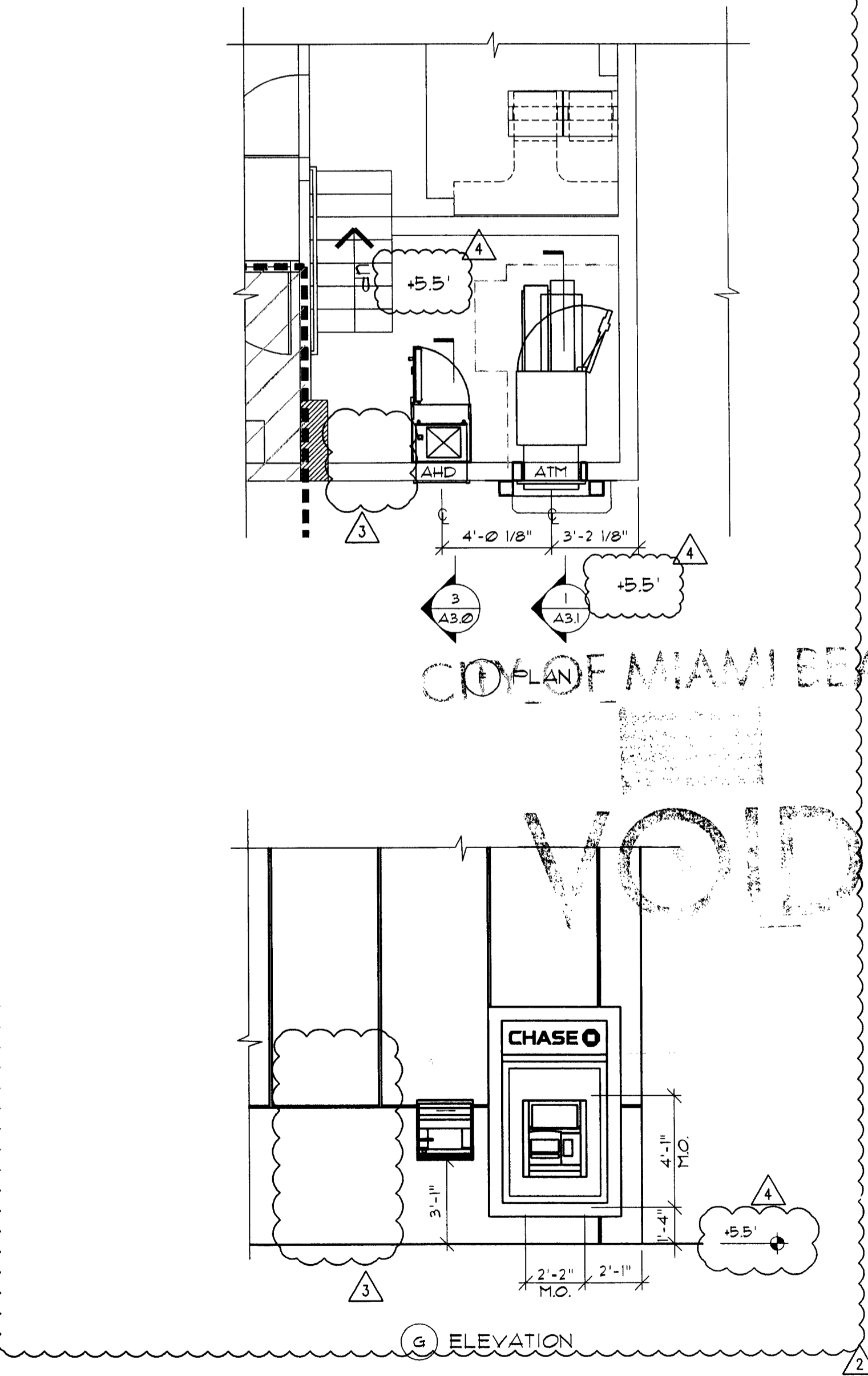
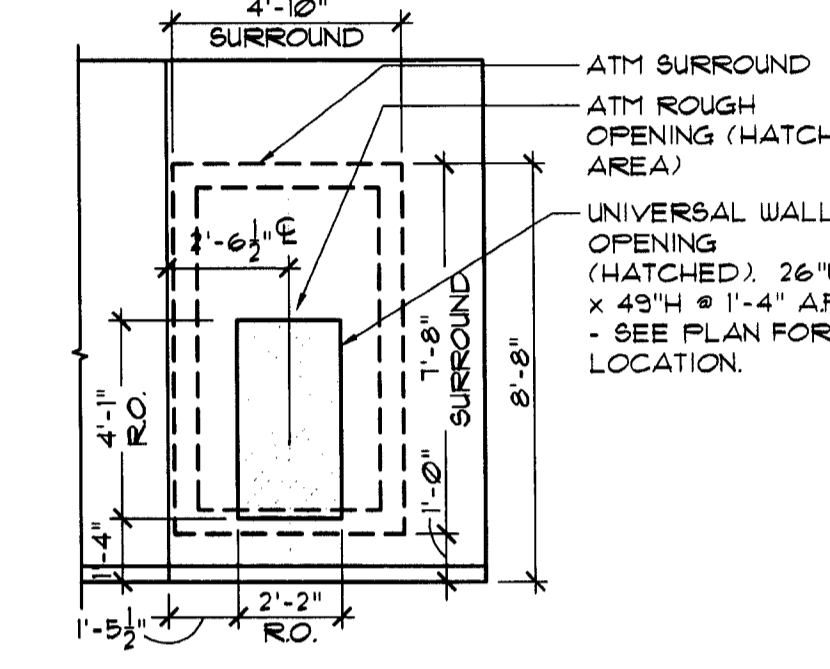
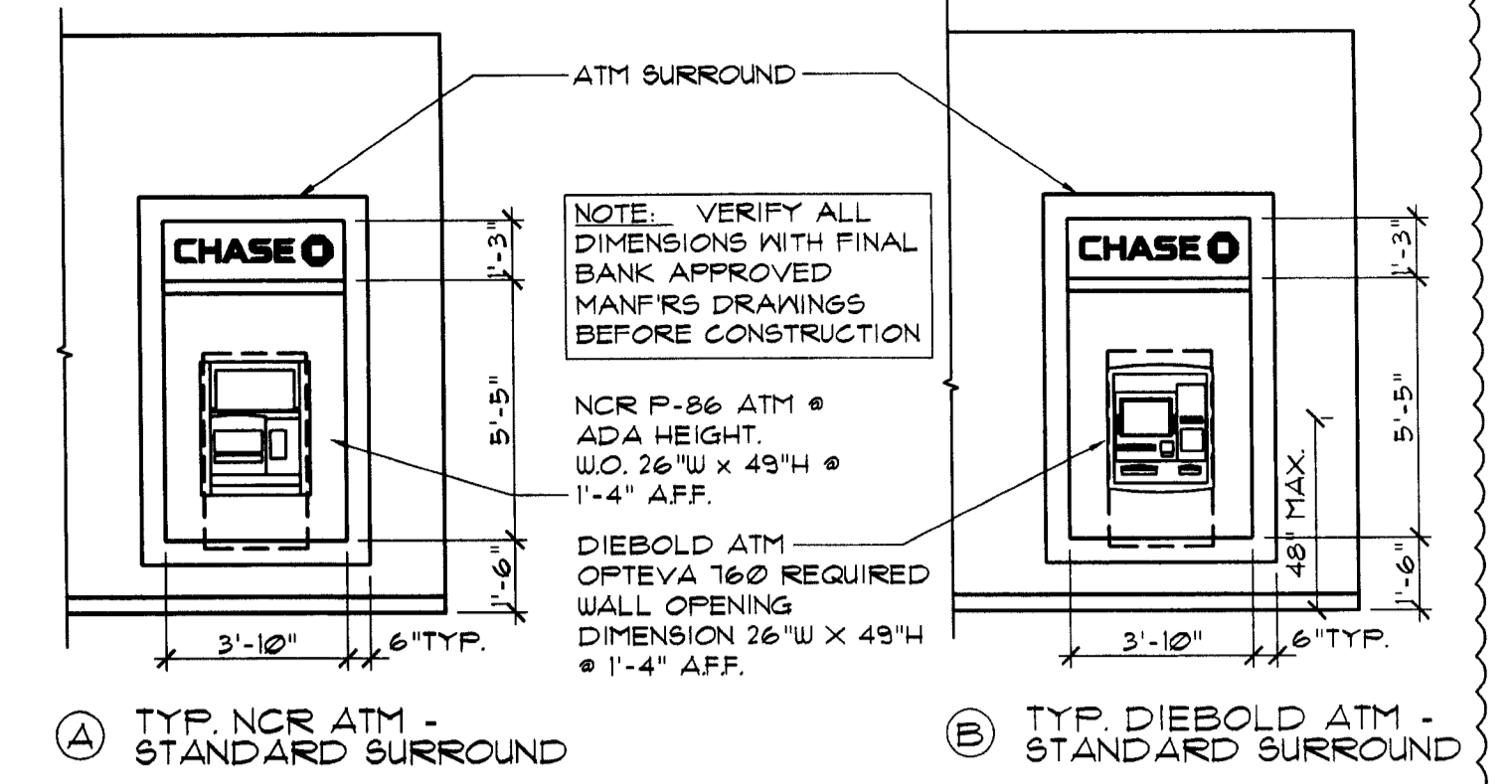
(2) TELLERLINE ELEVATIONS WITHOUT BR GLASS

SCALE: 1/4" = 1'-0"



(4) PENDANT LIGHT (MOUNTING HEIGHT AND STEM SIZING)

SCALE: 1/2" = 1'-0"



(5) ATM WALL OPENING DETAILS

SCALE: 1/4" = 1'-0"

SEAL: *[Signature]*

HARVEY JACOBY
AUG. 17, 2009

CONSULTANT:

REVISIONS:

NO.	DATE	REMARKS
2	08-09-09	OWNER REVISIONS
3	08-30-09	OWNER REVISIONS
4	07-28-09	PERMIT COMMENTS

SEAL:

LM
LOUISE CRIVELLO
MAY 07 2023

CONSULTANT:

REVISIONS:

NO. DATE REMARKS

CHASE
INTERIOR REBRANDING CONVERSION
MIAMI BEACH - ALTON ROAD
MANGI-SILIG, I.T.# 1024 CHASE STORE ID# 1742
1801 ALTON ROAD
MIAMI, FL 33139

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PROJECT NO: 2009.0109
DATE: 04-30-09

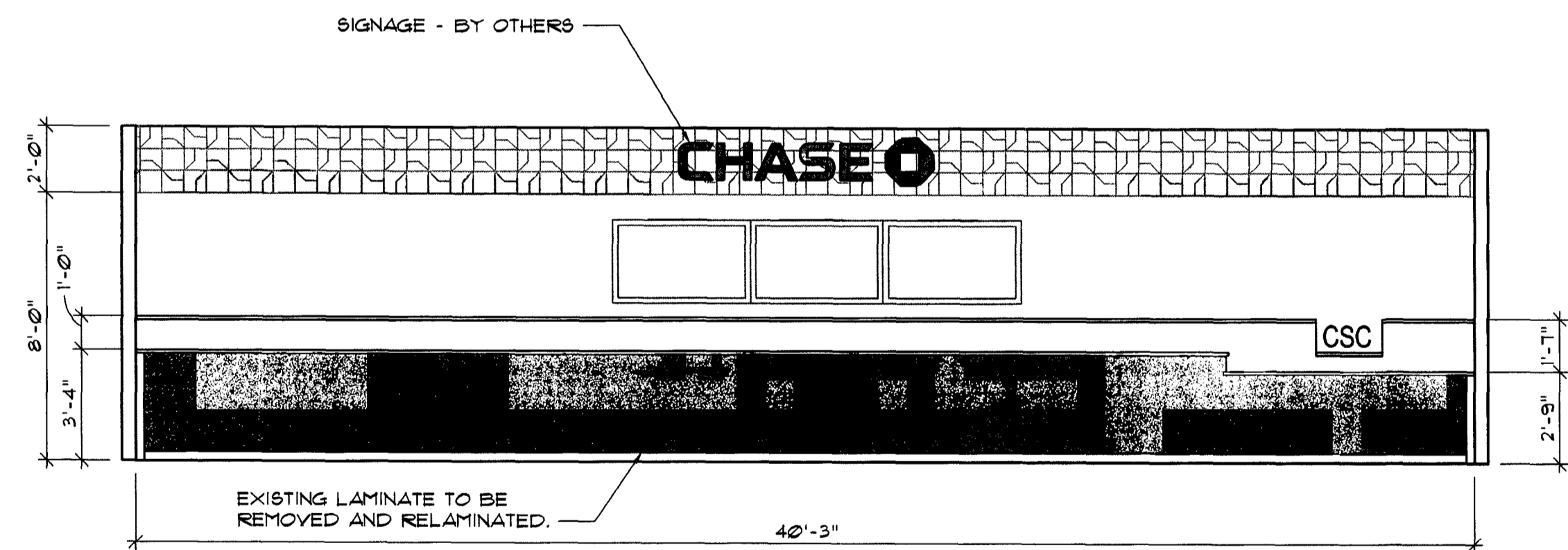
A3.1

INTERIOR ELEVATIONS,
SECTIONS AND DETAILS

DRAWN BY: *qw*
CHECKED BY: *es*

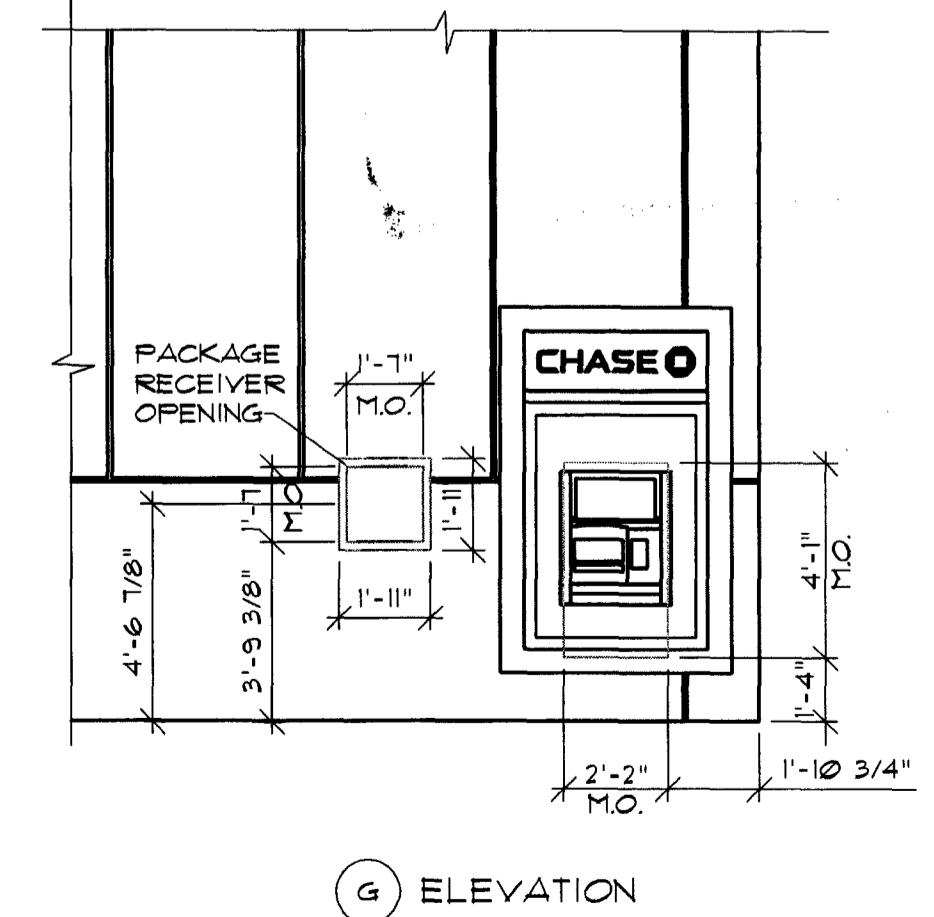
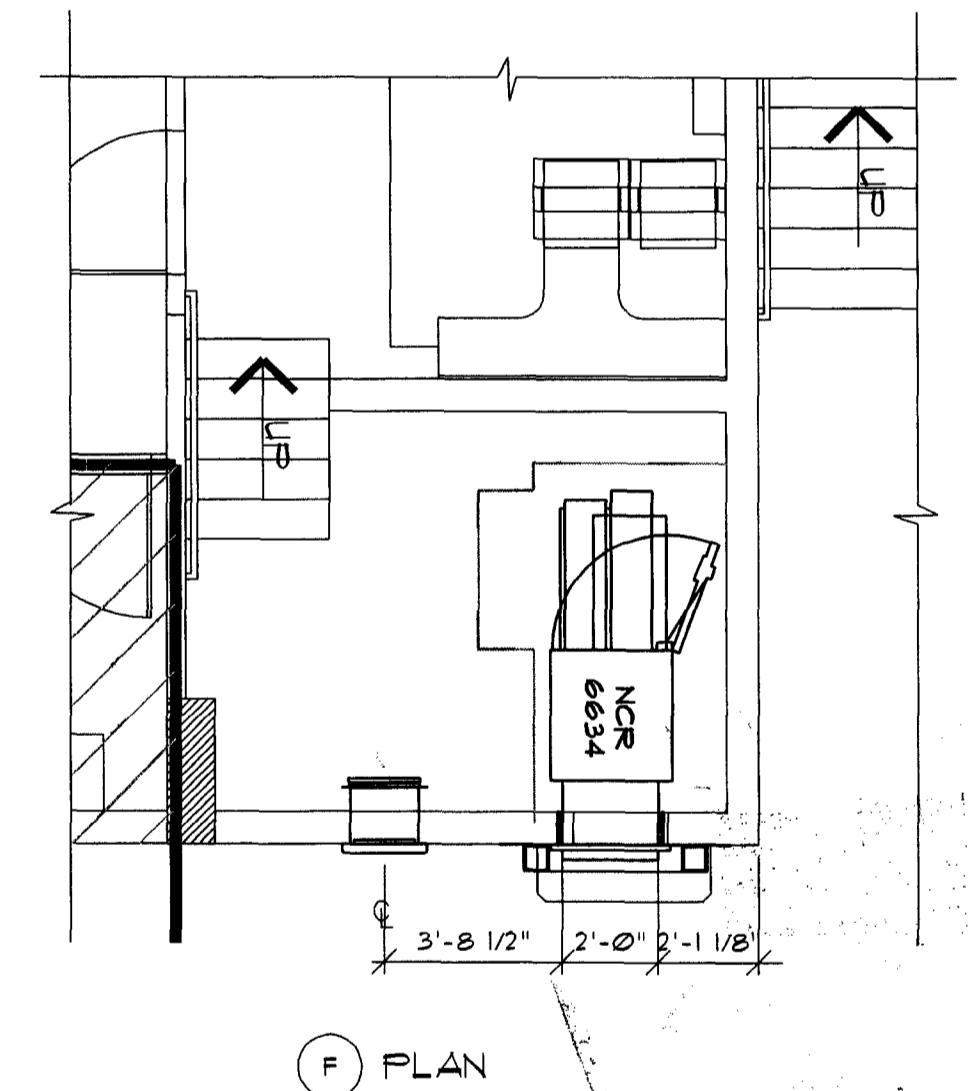
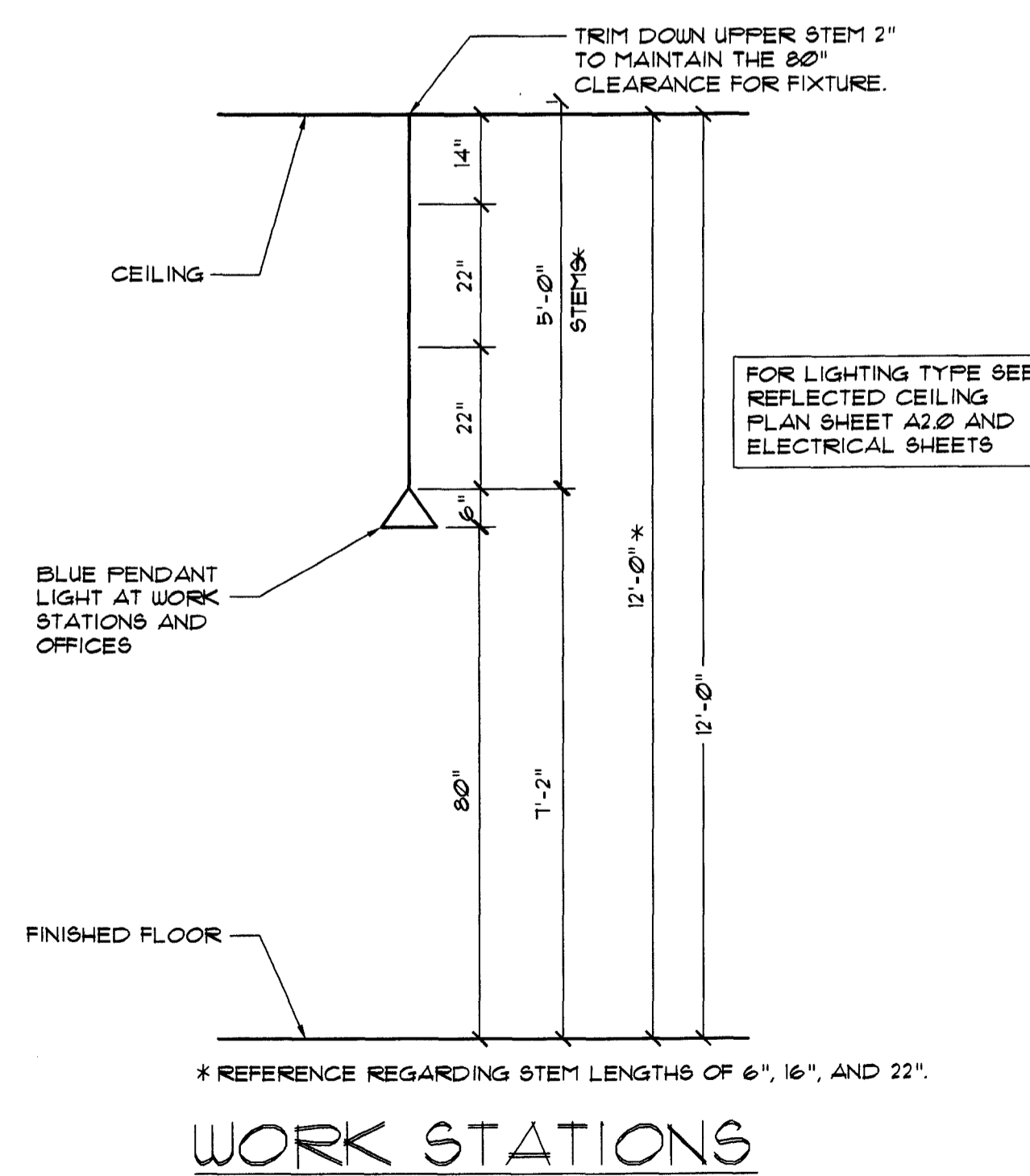
ⓑ NOT USED

SCALE: 3/4" = 1'-0"



ⓐ NOT USED

SCALE: 3/4" = 1'-0"



ⓐ TELLERLINE ELEVATIONS
WITHOUT BR GLASS

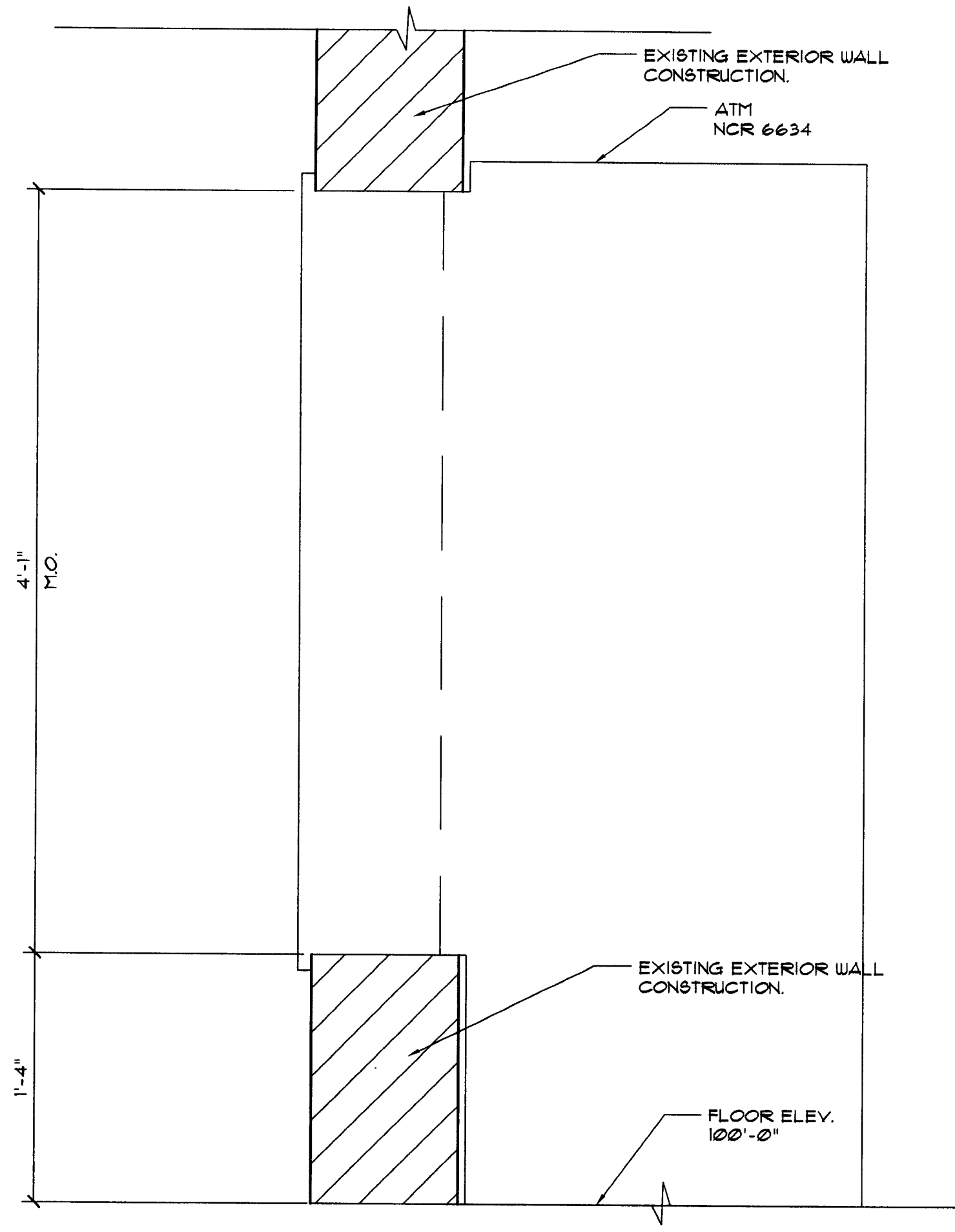
SCALE: 1/4" = 1'-0"

ⓐ PENDANT LIGHT
(MOUNTING HEIGHT AND STEM SIZING)

SCALE: 1/2" = 1'-0"

ⓐ ATM WALL OPENING DETAILS

SCALE: 1/4" = 1'-0"



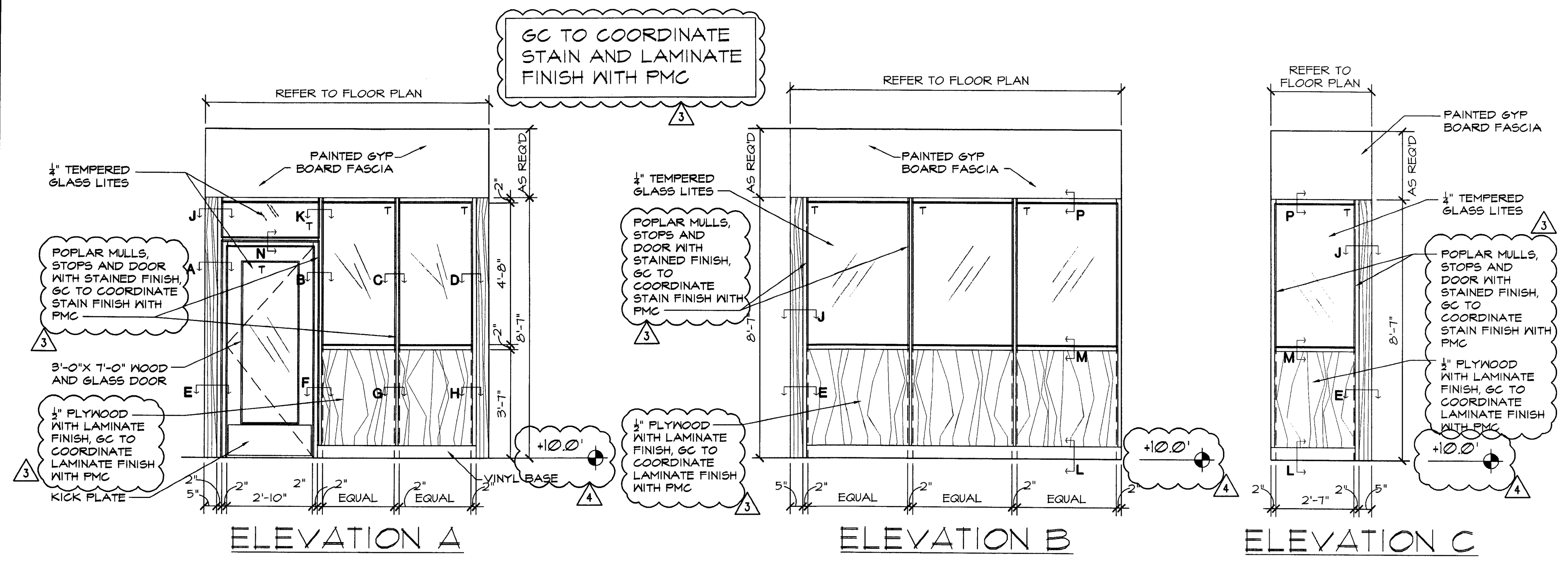
① ATM WALL OPENING DETAIL

SCALE: 1 1/2" = 1'-0"

② NOT USED

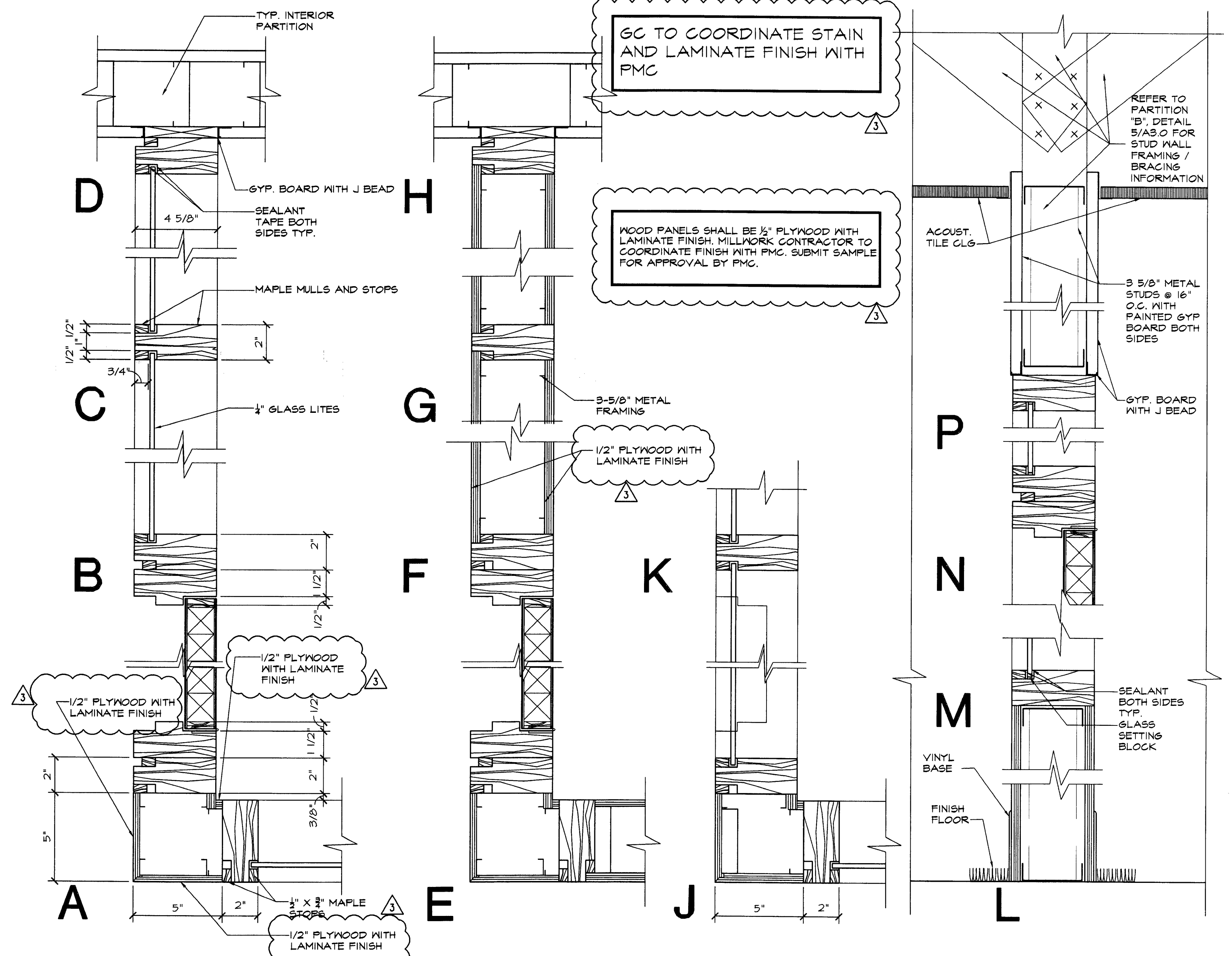


③ NOT USED



④ BM OFFICE ELEVATIONS

SCALE: 3/8" = 1'-0"



④ BM OFFICE WALL DETAILS

SCALE: 3" = 1'-0"

REVISIONS:

NO.	DATE	REMARKS
2	06-09-09	OWNER REVISIONS
3	06-30-09	OWNER REVISIONS
4	07-28-09	PERMIT COMMENTS

SEAL:

[Signature]
L. JAMES GRANT
MAY 11 2009

CONSULTANT:

REVISIONS:

NO. DATE REMARKS

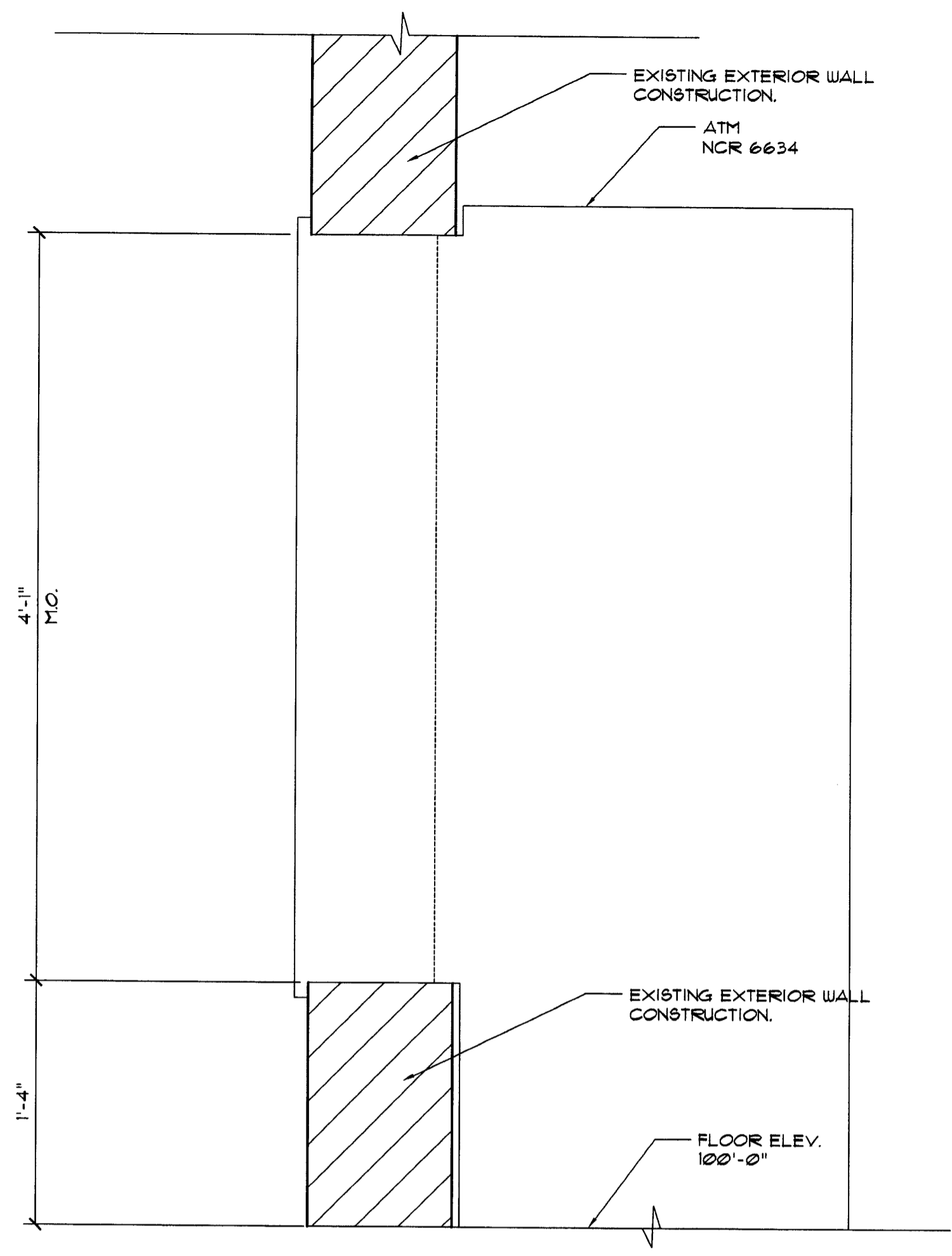
CHASE
INTERIOR REBRANDING CONVERSION
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WAMU BLDG ID# 1924 CHASE STORE ID# 1742
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MIAMI, FL 33139

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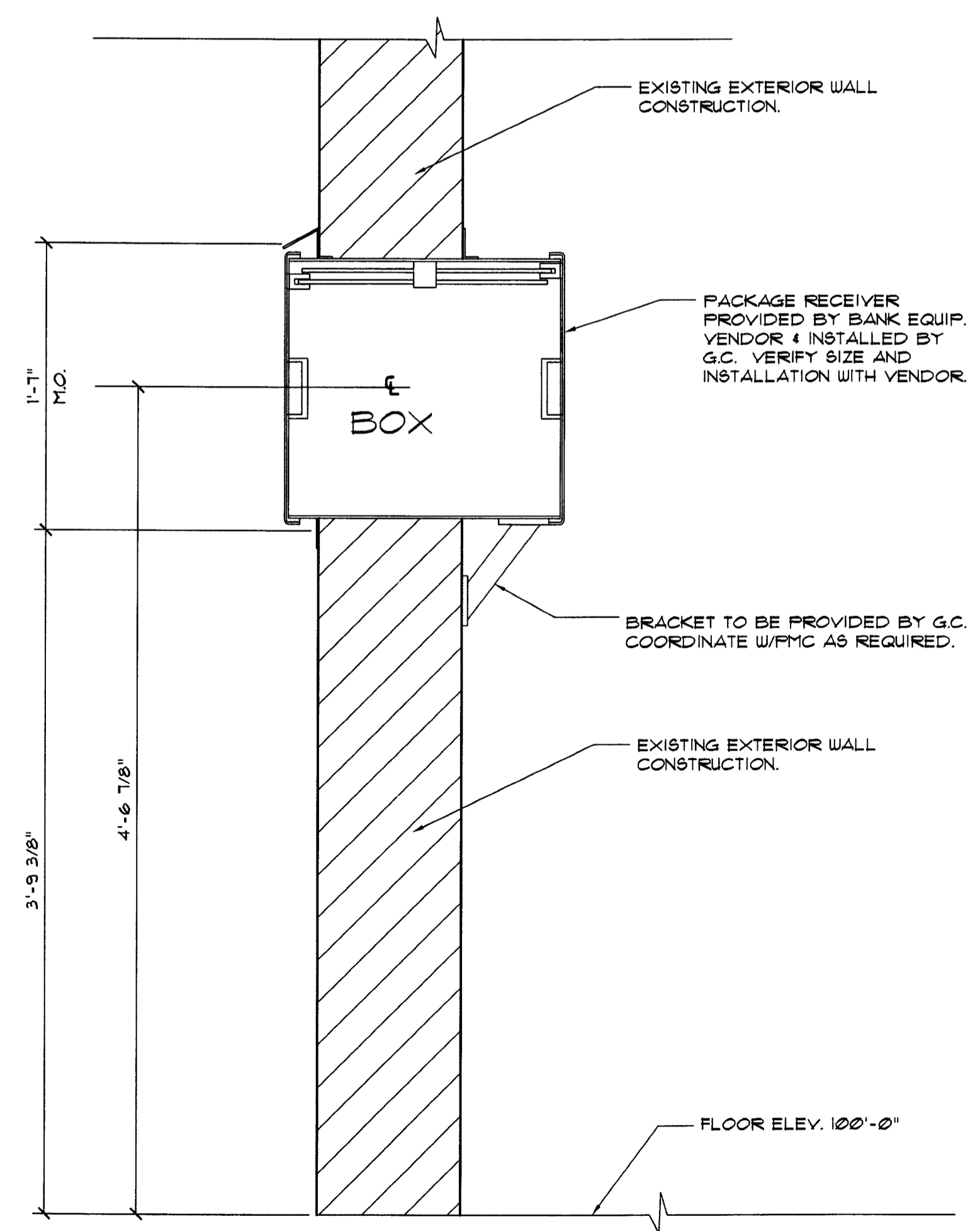
A3.2
INTERIOR ELEVATIONS,
SECTIONS AND DETAILS

DRAWN BY: *aw*
CHECKED BY: *es*



① ATM WALL
OPENING DETAIL

SCALE: 1 1/2" = 1'-0"



③ PACKAGE RECEIVER DETAILS

SCALE: 1 1/2" = 1'-0"

② NOT USED

SCALE: 1/4" = 1'-0"

④ NOT USED

SCALE: N.T.S.

SECTION 15500 - HEATING, VENTILATION AND AIR CONDITIONING

I. DESCRIPTION OF THE WORK:

- A. THE EXTENT OF THE MECHANICAL WORK IS INDICATED ON THE DRAWINGS OR IN THE BID MANUAL.
- B. RELATED WORK NOT INCLUDED IN THIS SECTION TEST AND BALANCE, ELECTRICAL WIRING, CONTROL WIRING, ETC., EXCEPT CONTROL WIRING AS SPECIFICALLY DEFINED ABOVE. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPERVISION OF ALL WIRING OF EQUIPMENT AND SHALL FURNISH ALL NECESSARY DIAGRAMS, INCLUDING CONTROL WIRING DIAGRAMS. MOUNT ALL CONTROL DEVICES.

II. LOW PRESSURE DUCTWORK

- A. SUPPLY AND RETURN AIR DUCT SYSTEM SHALL BE A FIBERGLASS DUCT SUPPLY AND RETURN AIR DUCT SYSTEM, EQUAL TO CERTAINTED 1 1/2" THICK ULTRA DUCT FIBER GLASS DUCT BOARD, MINIMUM R-VALUE SHALL BE 6.8. FIBER GLASS DUCT SYSTEM SHALL MEET AND OR EXCEED SMACNA'S LATEST FIBROUS GLASS DUCT BOARD CONSTRUCTION STANDARDS.
- B. ALL DUCT SIZES INDICATED ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
- C. ALL DUCTWORK TO BE HUNG WITH GALVANIZED STRAP HANGERS 16 GAUGE X 2" WITH A MAXIMUM SPACING OF 8'-0" O.C.
- D. WHERE SHOWN ON THE DRAWINGS, PROVIDE VOLUME DAMPERS WITH LOCKING QUADRANTS OR SPLITTERS WITH HINGE AND ROD THROUGH SIDE OF DUCT WITH SET SCREW. VOLUME DAMPER HANDLES SHALL BE INSTALLED ON THE BOTTOM OF THE SPIN-IN FITTING AND SHALL HAVE RING SET IN FULL OPEN POSITION.
- E. ALL FLEXIBLE DUCTS SHALL BE SUPPORTED EVERY 4'-0" WITH 2" WIDE GALV. STEEL BANDS. MINIMUM ONE PER EACH SECTION OF FLEXIBLE DUCT. MAXIMUM LENGTH OF FLEX DUCT SHALL BE 10'-0".

III. MANUAL DAMPERS

- A. PROVIDE MANUAL LOUVER DAMPERS WHERE SHOWN ON THE PLANS AND WHERE NECESSARY FOR THE PROPER REGULATION OF THE AIR HANDLING SYSTEM, AND SO LOCATE AS TO BE ACCESSIBLE AFTER THE BUILDING IS COMPLETED, I.E. BY REMOVING A MARKED TILE, ACCESS PANEL OR OTHER APPROVED METHOD.

IV. CONTROLS

- RELOCATE REMOTE TEMPERATURE SENSORS/THERMOSTATS AS SHOWN ON THE DRAWINGS.

V. PIPING:

- A. CONDENSATE DRAIN LINES FOR ROOF TOP AC UNITS SHALL BE SCHED. 40 PVC WITH MINIMUM 1/2" THICK INSULATION

VI. SMOKE DETECTORS

- WHERE APPLICABLE, RELOCATE EXISTING DUCT-MOUNTED SMOKE DETECTORS AND ASSOCIATED REMOTE INDICATORS WITH KEY SWITCH AS SHOWN ON THE DRAWINGS.

VII. GRILLES, REGISTERS AND DIFFUSERS:

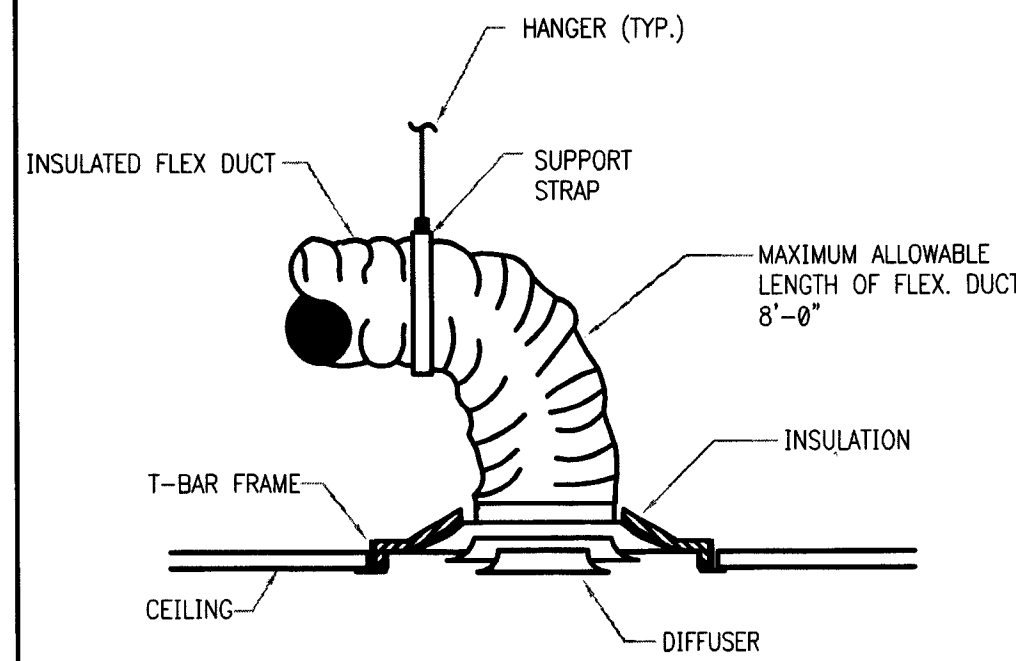
- A. ANY REQUIRED NEW SUPPLY, RETURN OR EXHAUST GRILLES SHALL MATCH EXISTING EQUIPMENT OF THE SAME TYPE.

VIII. FLEXIBLE DUCT:

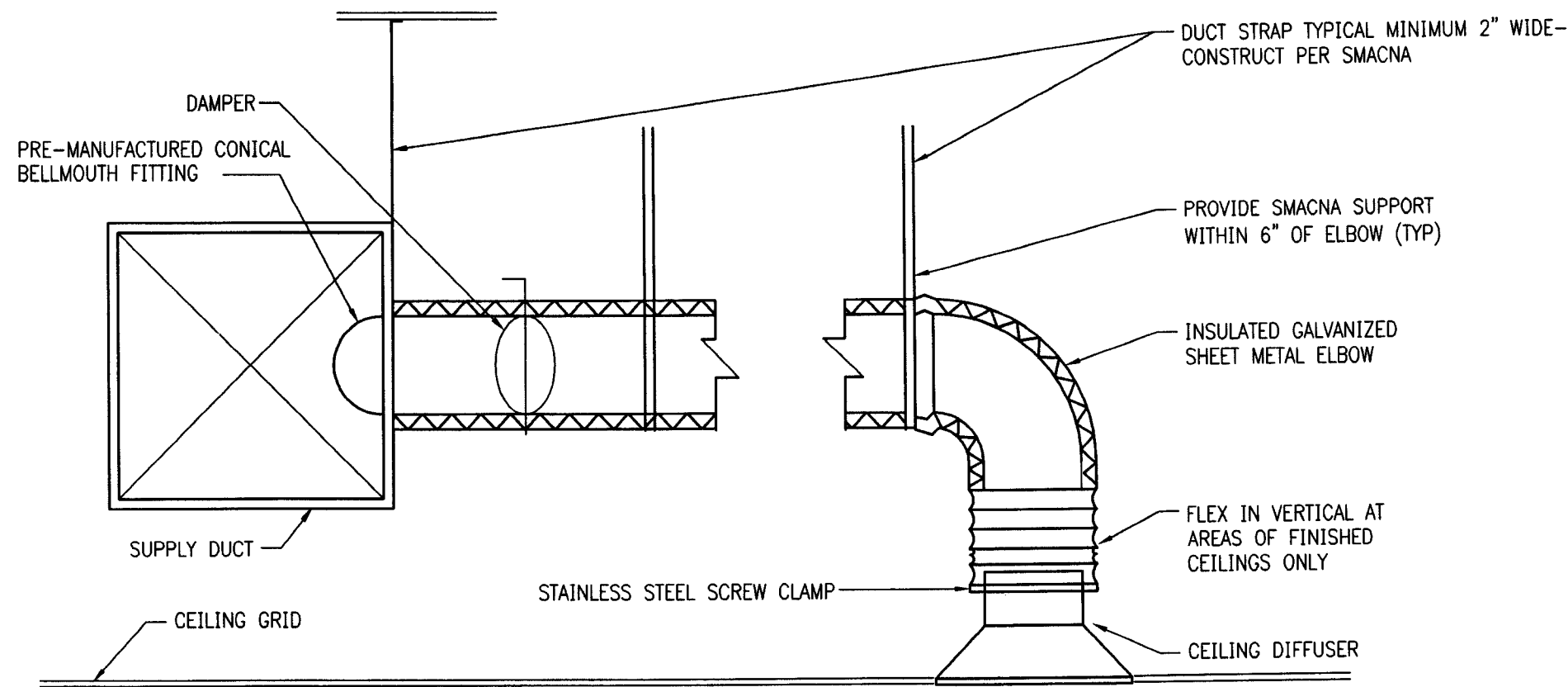
- A. FLEXIBLE DUCT SHALL BE EQUIVALENT TO GENFLEX TYPE SLR-25 FLEX DUCT.
- B. FITTINGS SHALL BE EQUIVALENT TO GENFLEX SPIN COLLAR WITH SCOOP AND DAMPER, MODEL SM-1 DEL. ALL FITTINGS SHALL BE INSULATED.

IX. SUPERVISION OF ELECTRICAL WORK:

- A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR SUPERVISION OF ALL WIRING (INCLUDING CONTROL WIRING) INCLUDED IN THIS SECTION AND SHALL FURNISH ALL NECESSARY DIAGRAMS REQUIRED, INCLUDING CONTROL WIRING DIAGRAMS. MOUNT ALL CONTROL DEVICES.



1 LAY-IN CEILING DIFFUSER DETAIL



2 DUCT CONNECTION DETAIL

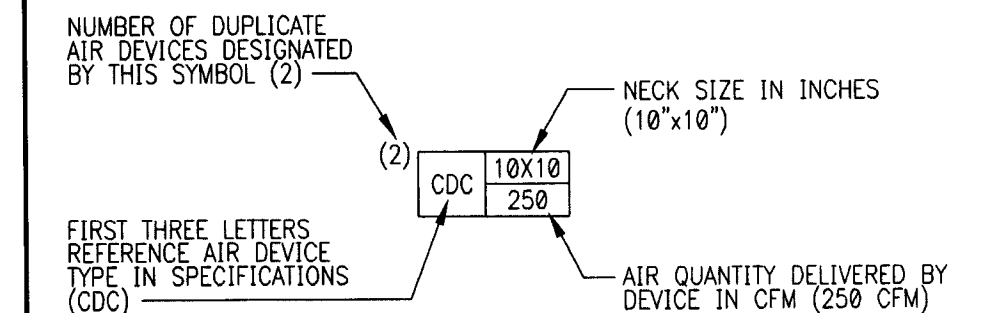
HVAC GENERAL NOTES

- ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. THIS CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH LIGHTING LAYOUTS AS REQUIRED.
- THE CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATION TO THE OTHER CONTRACTORS & TRADES AS REQUIRED FOR COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
- THERMOSTATS SHALL BE LOCATED GENERALLY AS SHOWN BUT THEIR EXACT LOCATION SHALL BE FIELD COORDINATED TO AVOID INTERFERENCE WITH WALL MOUNTED WORK.
- INSTALLATION SHALL COMPLY WITH ALL LOCAL, STATE AND NATIONAL CODES, AND WITH LATEST ASHRAE PUBLICATIONS. WORK SHALL BE NEAT AND WORKMANSHIP SHALL BE ACCEPTABLE TO BUILDING STANDARDS.
- DURING THE BIDDING PERIOD, EACH CONTRACTOR SHALL VISIT THE SITE AND VICINITY TO DETERMINE THE EXISTING CONDITIONS INVOLVED IN AND EXPECTED BY THE WORK INDICATED BY ALL CONTRACT DOCUMENTS. CONTRACTOR'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION.
- DUCT INSULATION CLOSURE SYSTEM SHALL CONSIST OF GLASSFIBRIC AND NON MIGRATING MASTIC, SEAL AIR TIGHT IN ACCORDANCE WITH SMACNA STANDARD.
- ALL HVAC WORK SHALL BE IN ACCORDANCE WITH NFPA 98A, 98B, AND NEC 101, LIFE SAFETY CODE.
- IN THE EVENT OF FAN SHUT DOWN, ALL DUCT MOUNTED DETECTORS SHALL REMAIN IN OPERATION.
- NO FLEXIBLE DUCTS SHALL PASS THROUGH FIRE WALLS, OR BE CONNECTED TO ANY METAL DUCT WITH-IN 5'-0" FROM EITHER SIDE OF THE FIREWALL.
- ALL DUCTWORK SHALL MAINTAIN SYSTEM PRESSURE. THE AIR DISTRIBUTION COMPONENTS SHALL BE SEALED IN ACCORDANCE WITH SMACNA REQUIREMENTS. TWO INCH PRESSURE CLASS.
- INSULATION WRAP SHALL BE SEALED WITH FAB AND MASTIC.
- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE FOLLOWING CODES: FLORIDA MECHANICAL CODE 2004 FBCMU AND 2006 AMENDMENTS FLORIDA BUILDING CODE 2004 FBCB AND 2006 AMENDMENTS

HVAC SYMBOLS LEGEND

- (ALL ITEMS MAY NOT BE INCLUDED)
- SA DUCT, SPIN-IN DAMPER, FLEX DUCT TO AIR DEVICE WITH CFM
 - CONNECT TO EXISTING - POINT OF CONNECTION
 - INDICATES POINT OF REMOVAL
 - HATCH INDICATES OBJECTS TO BE REMOVED
 - AIR FLOW DIRECTION
 - FLEXIBLE DUCT (DOUBLE LINE)
 - FLEXIBLE DUCT (SINGLE LINE)
 - SUPPLY OUTLET (SEE AIR DEVICE SCHEDULE)
 - RETURN INLET (SEE AIR DEVICE SCHEDULE)
 - EXHAUST INLET (SEE AIR DEVICE SCHEDULE)
 - THERMOSTAT
 - REMOTE SENSOR
 - REFERENCE NOTE
- NUMBER BY DIFFUSER INDICATES UNIT SERVED FROM

AIR DEVICE LEGEND



HVAC ABBREVIATIONS

- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- CD CEILING DIFFUSER
- CFM CUBIC FEET PER MINUTE
- CU CONDENSING UNIT
- FD FLOOR DRAIN
- OA OUTSIDE AIR
- PMC PROJECT MANAGEMENT COMPANY
- RA RETURN AIR
- RTU ROOFTOP UNIT
- SA SUPPLY AIR

PLAN DEMOLITION NOTES

- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEMOLITION OF EXISTING MECHANICAL SYSTEMS AS REQUIRED TO PERFORM NEW MECHANICAL WORK. ALL DIFFUSERS, DUCTWORK, PIPING AND MISCELLANEOUS DEBRIS SHALL BE REUSED OR TURNED OVER TO OWNERS REPRESENTATIVE OR REMOVED FROM SITE AND PROPERLY DISPOSED OF AT THE DIRECTION OF THE OWNERS REPRESENTATIVE.
- EXISTING THERMOSTATS SHALL BE REUSED AND/OR RELOCATED. EXISTING TSTATS SHALL ALSO BE CLEANED, TESTED, CALIBRATED AND REPAIRED AS NECESSARY FOR PROPER OPERATION.

CONTINUITY OF SERVICE

CONTINUED OPERATION OF EXISTING HVAC SYSTEMS SHALL BE MAINTAINED DURING RENOVATION CONSTRUCTION TO THE MAXIMUM EXTENT POSSIBLE. ANY INTERRUPTION TO NORMAL BANKING OPERATIONS SHALL BE COORDINATED WITH THE OWNERS REPRESENTATIVE (PMC) AND SHALL OCCUR ONLY WHEN APPROVED AND SCHEDULED WITH THE OWNER.

09/11/09

MECHANICAL DRAWING INDEX

SHEET	DESCRIPTION
M0.0	HVAC SPECIFICATIONS, NOTES AND DETAILS
M1.0	HVAC FLOOR PLAN

INTERPLAN

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN
PROJECT MANAGEMENT

AA 003420
CA8660

933 LEE ROAD, FIRST FLOOR
ORLANDO, FLORIDA 32810
PH 407.645.5008
FX 407.629.9124

SEAL:

MALCOLM RUSSO
AUG 17 2009

CONSULTANT:

REVISIONS:

NO. DATE REMARKS

CHASE
INTERIOR REBRANDING CONVERSION
MIAMI BEACH - ALTON ROAD
WAMU BLDG ID#4 1924 CHASE STORE ID# 1742
1801 ALTON ROAD
MIAMI, FL 33139

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PROJECT NO: 2009.0109
DATE: 06/08/09

**HVAC SPECS.,
NOTES AND
DETAILS**

M0.0

DRAWN BY: GAB
CHECKED BY: MGR

SECTION 15500 - HEATING, VENTILATION AND AIR CONDITIONING

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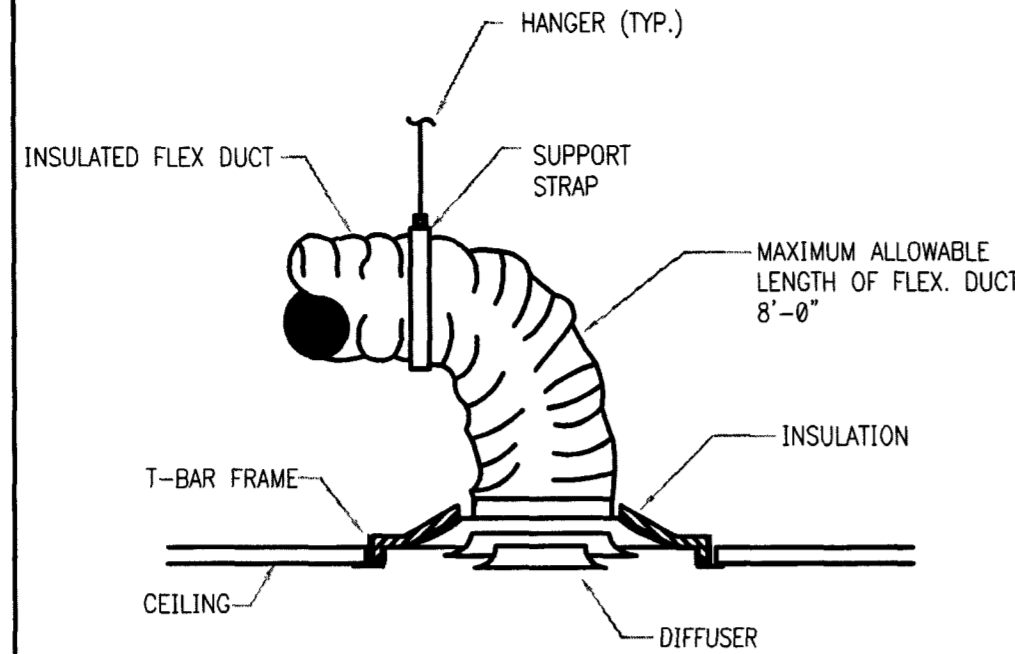
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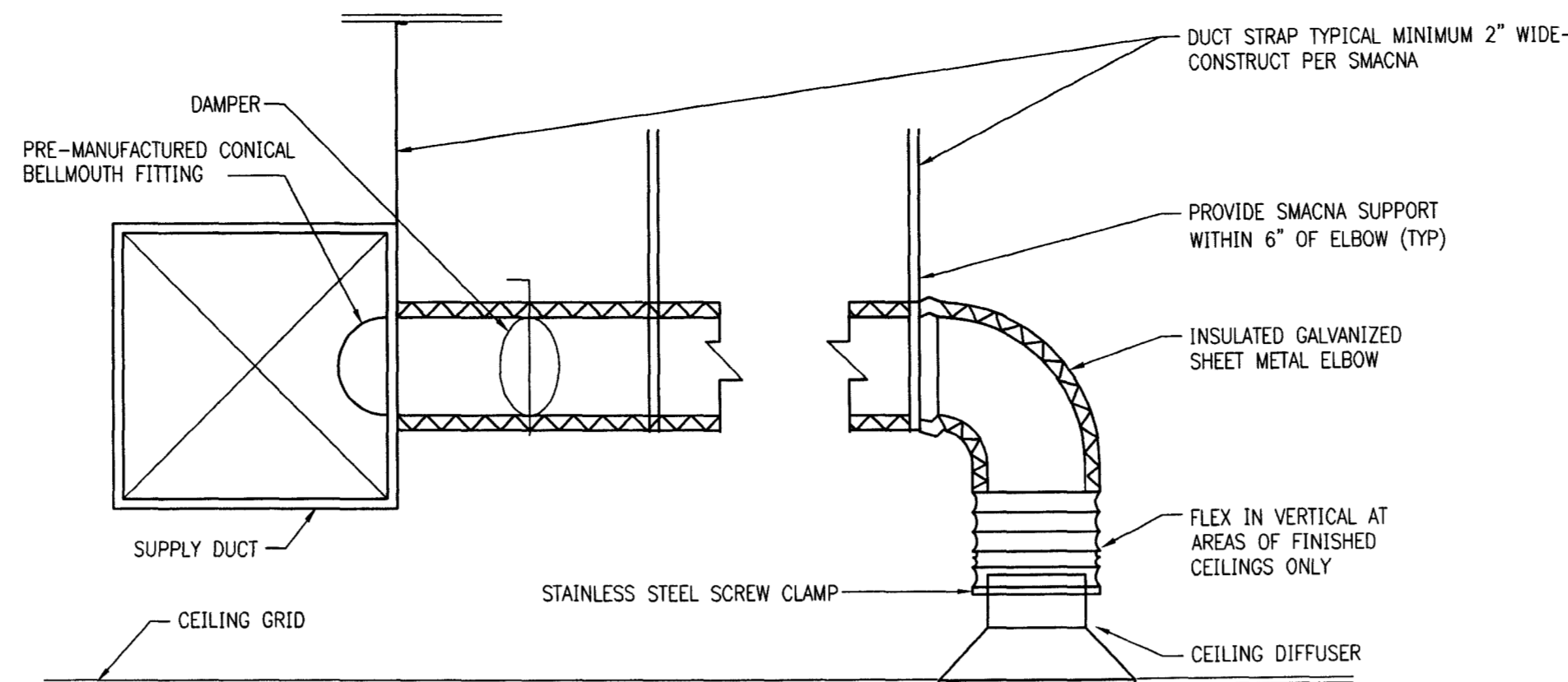
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1 LAY-IN CEILING DIFFUSER DETAIL NTS



2 DUCT CONNECTION DETAIL NTS

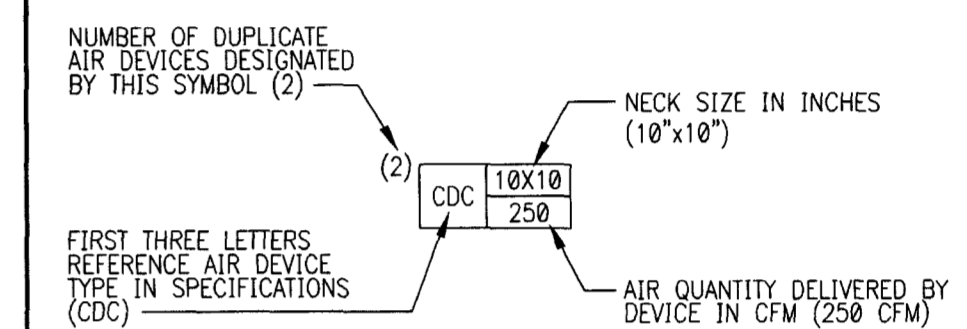
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3. THERMOSTATS SHALL BE LOCATED GENERALLY AS SHOWN BUT THEIR EXACT LOCATION SHALL BE FIELD COORDINATED TO AVOID INTERFERENCE WITH WALL MOUNTED WORK.
4. INSTALLATION SHALL COMPLY WITH ALL LOCAL, STATE AND NATIONAL CODES, AND WITH LATEST ASHRAE PUBLICATIONS. WORK SHALL BE NEAT AND WORKMANSHIP SHALL BE ACCEPTABLE TO BUILDING STANDARDS.
5. DURING THE BIDDING PERIOD, EACH CONTRACTOR SHALL VISIT THE SITE AND VICINITY TO DETERMINE THE EXISTING CONDITIONS INVOLVED IN AND EXPECTED BY THE WORK INDICATED BY ALL CONTRACT DOCUMENTS. CONTRACTOR'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION.
6. DUCT INSULATION CLOSURE SYSTEM SHALL CONSIST OF GLASSFIBER AND NON MIGRATING MASTIC. SEAL AIR TIGHT IN ACCORDANCE WITH SMACNA STANDARD.
7. ALL HVAC WORK SHALL BE IN ACCORDANCE WITH NFPA 98A, 98B, AND NEC 101, LIFE SAFETY CODE.
8. IN THE EVENT OF FAN SHUT DOWN, ALL DUCT MOUNTED DETECTORS SHALL REMAIN IN OPERATION.
9. NO FLEXIBLE DUCTS SHALL PASS THROUGH FIRE WALLS, OR BE CONNECTED TO ANY METAL DUCT WITH-IN 5'-0" FROM EITHER SIDE OF THE FIREWALL.
10. ALL DUCTWORK SHALL MAINTAIN SYSTEM PRESSURE. THE AIR DISTRIBUTION COMPONENTS SHALL BE SEALED IN ACCORDANCE WITH SMACNA REQUIREMENTS. TWO INCH PRESSURE CLASS.
11. INSULATION WRAP SHALL BE SEALED WITH FAB AND MASTIC.
12. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE FOLLOWING CODES: FLORIDA MECHANICAL CODE 2004 FBCMJ AND 2006 AMENDMENTS, FLORIDA BUILDING CODE 2004 FBCB AND 2006 AMENDMENTS

HVAC SYMBOLS LEGEND

- (ALL ITEMS MAY NOT BE INCLUDED)
- SA DUCT, SPIN-IN DAMPER, FLEX DUCT TO AIR DEVICE WITH CFM
 - CONNECT TO EXISTING - POINT OF CONNECTION
 - INDICATES POINT OF REMOVAL
 - HATCH INDICATES OBJECTS TO BE REMOVED
 - AIR FLOW DIRECTION
 - FLEXIBLE DUCT (DOUBLE LINE)
 - FLEXIBLE DUCT (SINGLE LINE)
 - SUPPLY OUTLET (SEE AIR DEVICE SCHEDULE)
 - RETURN INLET (SEE AIR DEVICE SCHEDULE)
 - EXHAUST INLET (SEE AIR DEVICE SCHEDULE)
 - THERMOSTAT
 - REMOTE SENSOR
 - REFERENCE NOTE
- TYPE SIZE CFM

AIR DEVICE LEGEND



HVAC ABBREVIATIONS

- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- CD CEILING DIFFUSER
- CFM CUBIC FEET PER MINUTE
- CU CONDENSING UNIT
- FD FLOOR DRAIN
- OA OUTSIDE AIR
- PMC PROJECT MANAGEMENT COMPANY
- RA RETURN AIR
- RTU ROOFTOP UNIT
- SA SUPPLY AIR

PLAN DEMOLITION NOTES

1. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEMOLITION OF EXISTING MECHANICAL SYSTEMS AS REQUIRED TO PERFORM NEW MECHANICAL WORK. ALL DIFFUSERS, DUCTWORK, PIPING AND MISCELLANEOUS DEBRIS SHALL BE REUSED OR TURNED OVER TO OWNERS REPRESENTATIVE OR REMOVED FROM SITE AND PROPERLY DISPOSED OF AT THE DIRECTION OF THE OWNERS REPRESENTATIVE.
2. EXISTING THERMOSTATS SHALL BE REUSED AND/OR RELOCATED. EXISTING TSTATS SHALL ALSO BE CLEANED, TESTED, CALIBRATED AND REPAIRED AS NECESSARY FOR PROPER OPERATION.

CONTINUITY OF SERVICE

CONTINUED OPERATION OF EXISTING HVAC SYSTEMS SHALL BE MAINTAINED DURING RENOVATION CONSTRUCTION TO THE MAXIMUM EXTENT POSSIBLE. ANY INTERRUPTION TO NORMAL BANKING OPERATIONS SHALL BE COORDINATED WITH THE OWNERS REPRESENTATIVE (PMC) AND SHALL OCCUR ONLY WHEN APPROVED AND SCHEDULED WITH THE OWNER.

MECHANICAL DRAWING INDEX

SHEET	DESCRIPTION
M0.0	HVAC SPECIFICATIONS, NOTES AND DETAILS
M1.0	HVAC FLOOR PLAN

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REVISIONS:
NO. DATE REMARKS

CHASEO
INTERIOR REBRANDING CONVERSION
MIAMI BEACH - ALTON ROAD
WAKHU BLDG ID# 1924 CHASE STORE ID# 1742
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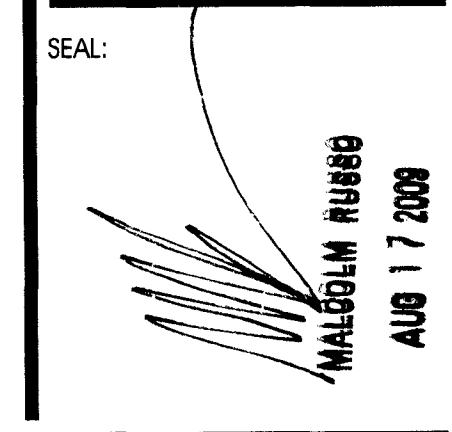
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PROJECT NO: 2009.0109
DATE: 04/30/2009

**HVAC SPECS.,
NOTES AND
DETAILS**

M0.0

DRAWN BY: GAB
CHECKED BY: MGR



CONSULTANT:

REVISIONS:

NO.	DATE	REMARKS
2	6-09-09	OWNER REVISIONS

CHASE
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HVAC FLOOR
PLAN

M1.0

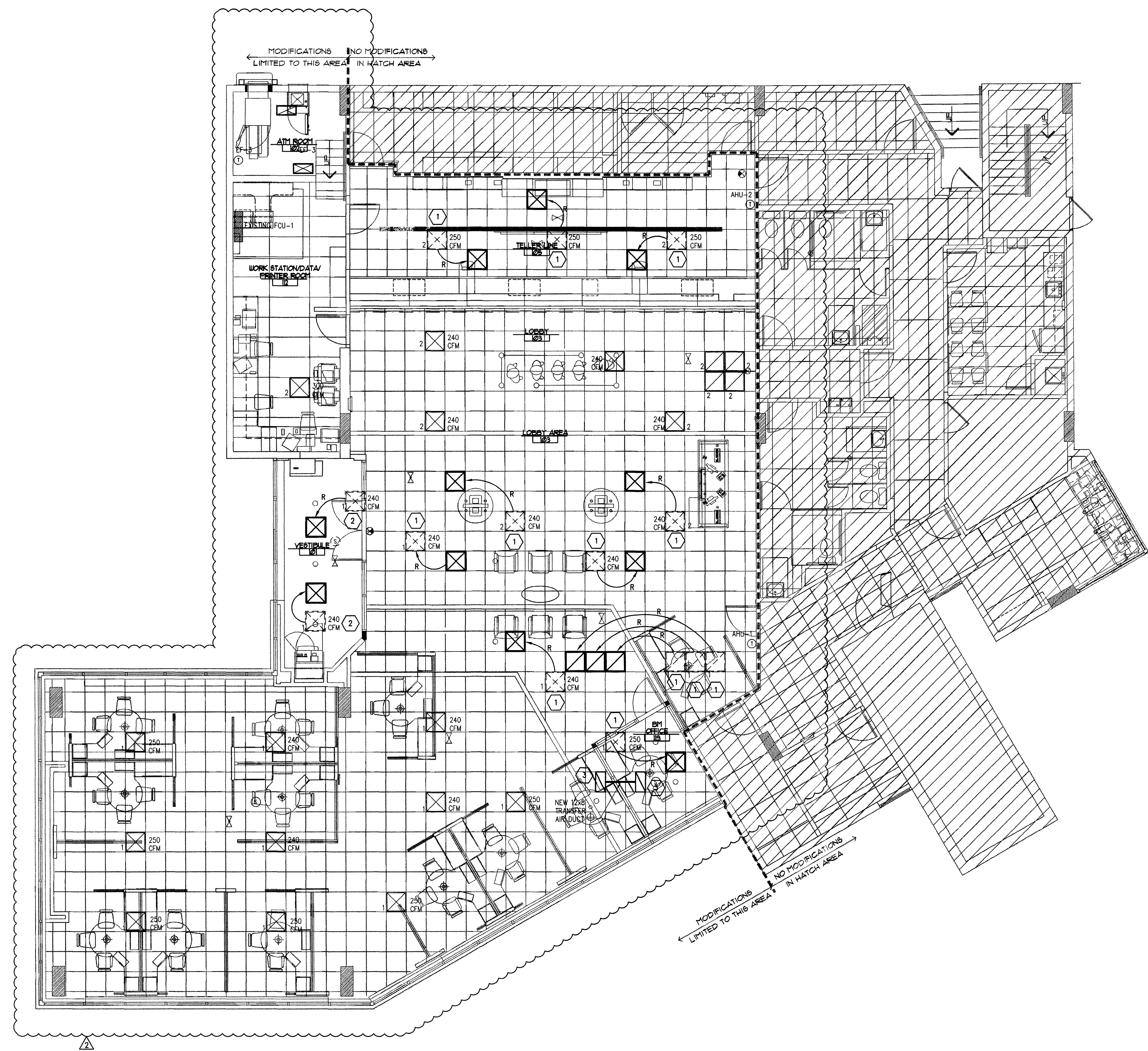
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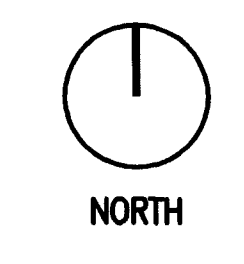
- 1 RELOCATE EXISTING SUPPLY/RETURN/EXHAUST AIR DIFFUSER AS SHOWN. EXTEND FLEX/DUCT AS REQUIRED. CFM'S TO REMAIN AS SHOWN.
- 2 EXTEND FLEX/DUCT AS REQUIRED. REPLACE EXISTING SUPPLY DIFFUSERS WITH NEW CEILING MOUNTED DIFFUSERS TO NEW LOCATION SHOWN. CFM'S TO REMAIN AS SHOWN.
- 3 ADD NEW 24x12 TRANSFER AIR GRILL. MATCH EXISTING.

PLAN GENERAL NOTES

1. EXISTING SYSTEMS SHOWN ON THIS PLAN ARE BASED ON FIELD OBSERVATIONS AND AVAILABLE RECORD DRAWINGS. THESE INFORMATION IS PARTIALLY UNVERIFIED. CONTRACTOR ASSUMES RESPONSIBILITY FOR FIELD VERIFICATION AND INVESTIGATION PRIOR TO SUBMITTING BID. DO NOT SCALE THESE PLANS.
2. EXISTING DIFFUSERS TO BE REUSED SHALL BE CLEANED AND FREE OF DEFECTS. REUSE EXISTING DIFFUSERS TO THE GREATEST EXTENT POSSIBLE.
3. ALL EXISTING DUCTWORK TO REMAIN UNLESS OTHERWISE NOTED.
4. SOME EXISTING BUILDING CONDITIONS FOR ELECTRICAL, PLUMBING, MECHANICAL AND FIRE PROTECTION SYSTEMS USED IN THE DESIGN OF THIS PROJECT ARE ASSUMED. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE INSTALLING CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. ALL NEW WORK AND EXISTING SYSTEMS OR EQUIPMENT INDICATED TO REMAIN OR BE RELOCATED SHALL BE IN COMPLIANCE WITH OWNER REQUIREMENTS AND COORDINATED WITH THE OWNER'S REPRESENTATIVE (PMC). ANY DISCREPANCIES SHALL BE REPORTED TO OWNER'S REPRESENTATIVE.

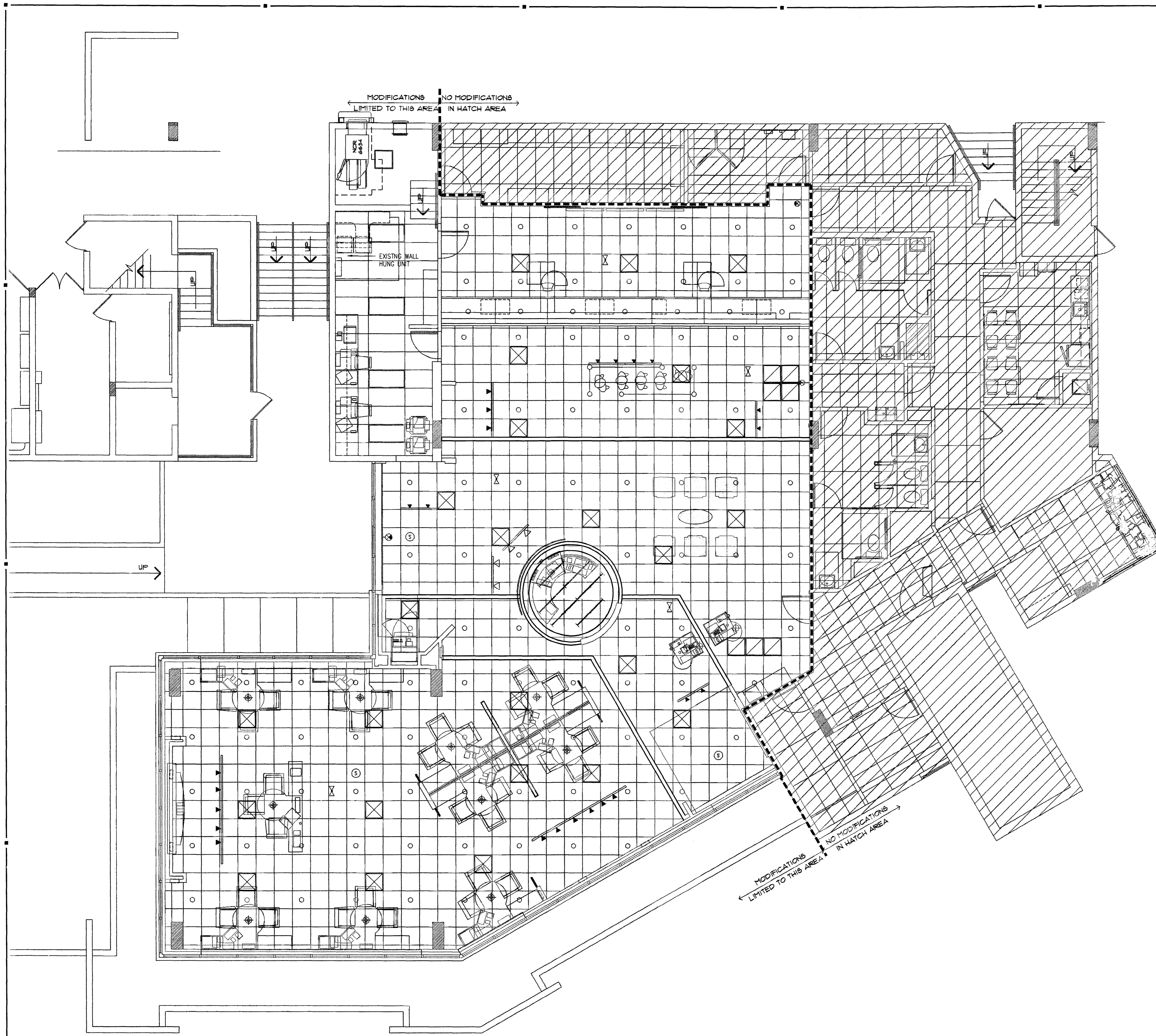


HVAC FLOOR PLAN
3/16" = 1'-0"



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HVAC FLOOR PLAN
3/16" = 1'-0"



PLAN GENERAL NOTES

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HVAC FLOOR
PLAN

M1.0

DRAWN BY: GAB
CHECKED BY: MGR

SECTION 16000 - ELECTRICAL SPECIFICATIONS

DEMOLITION

- I. SITE INVESTIGATION:
 - A. OBTAIN IN THE FIELD ALL INFORMATION RELEVANT TO THE PLACING OF ELECTRICAL WORK AND IN CASE OF INTERFERENCE WITH OTHER WORK, PROCEED AS DIRECTED BY THE OWNER REPRESENTATIVES (PMC) AND PROVIDE ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK IN AN ACCEPTABLE MANNER.
 - C. SPECIAL CONSIDERATIONS: SPECIAL ATTENTION IS CALLED TO THE FACT THAT THERE WILL BE PIPING, FIXTURES OR OTHER ITEMS IN THE EXISTING BUILDING WHICH MUST BE REMOVED OR RELOCATED IN ORDER TO PERFORM THE ALTERATION WORK. BID SHALL INCLUDE ALL REMOVAL AND RELOCATION REQUIRED FOR COMPLETION OF THE ALTERATIONS AND THE NEW CONSTRUCTION.
 - D. OWNER'S SALVAGE: THE OWNER RESERVES THE RIGHT TO INSPECT THE MATERIAL SCHEDULED FOR REMOVAL AND SALVAGE ANY ITEMS HE DEEMS USABLE AS SPARE PARTS.
- II. EXISTING CONDITIONS:
 - III. SUPPORT: ALL EXISTING CONDUIT AND CABLES WITHIN THE AREA OF RENOVATION SHALL BE PROVIDED WITH PROPER SUPPORTS AS SPECIFIED FOR NEW WORK IN OTHER SECTIONS OF THIS SPECIFICATION.
 - III. INSTALLATION: ALL EXISTING ELECTRICAL WHICH IS DESIGNATED FOR REWORKING OR REQUIRES RELOCATION, REPAIR OR ADJUSTMENT SHALL CONFORM TO ALL APPLICABLE CODES AND SHALL BE TREATED AS NEW WORK COMPLYING TO ALL SECTIONS OF THIS SPECIFICATION.
 - III. VIOLATIONS: WHERE EXISTING CONDITIONS ARE DISCOVERED WHICH ARE NOT IN COMPLIANCE WITH THE CODES AND STANDARDS, THE CONTRACTOR SHALL SUBMIT PROPER DOCUMENTATION TO THE OWNER REPRESENTATIVES (PMC) FOR CLARIFICATION AND CORRECTIVE WORK DIRECTION. EXISTING CONDITIONS SHALL NOT REMAIN WHICH WILL CREATE A DISAPPROVAL OF THE RENOVATED AREA.
 - III. PATCHING: ALL EXISTING CONDUIT AND CABLE PENETRATIONS SHALL BE PROPERLY FIRE TREATED PER CODE AND SPECIFICATION REQUIREMENTS. THE CONTRACTOR SHALL THOROUGHLY INSPECT ALL EXISTING LOCATIONS AND INCLUDE THE COST OF PATCHING AND REPAIR IN HIS PROPOSED CONSTRUCTION COST.

GENERAL

- I. GENERAL
 - A. THE CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR & EQUIP. NECESSARY TO COMPLETELY INSTALL ELECTRICAL & RELATED WORK INDICATED ON THE DRAWINGS AND IN THESE SPECIFICATIONS.
- II. DISCREPANCIES
 - A. NOTIFY THE OWNER REPRESENTATIVES (PMC) OF ANY DISCREPANCIES FOUND DURING CONSTRUCTION OF THE PROJECT AND DO NOT PROCEED WITH THAT PORTION OF THE PROJECT, UNTIL A WRITTEN DEFINITIVE STATEMENT IS RECEIVED PROVIDING CLEAR DIRECTION. IF A CONFLICT EXISTS BETWEEN THE CONTRACT DOCUMENTS AND ANY APPLICABLE CODE OR STANDARD, THE MOST STRINGENT REQUIREMENT SHALL BE INCLUDED FOR THIS PROJECT. THE OWNER REPRESENTATIVES (PMC) SHALL MAKE THE DECISION REGARDING QUESTIONABLE AREAS OF CONFLICT.
- III. CODE
 - A. ALL EQUIPMENT, WIRING AND THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.), O.S.H.A. REQUIREMENTS, LIFE SAFETY CODE AND ALL APPLICABLE LOCAL AND STATE LAWS AND ORDINANCES.
 - B. THE CONTRACTOR SHALL PAY ALL INSPECTION FEES AND PURCHASE ALL PERMITS REQUIRED FOR THIS WORK.
- IV. LOCATION OF EQUIPMENT
 - A. THE CONTRACTOR SHALL NOTE THAT THE ELECTRICAL DRAWINGS ARE INTENDED TO INDICATE DIAGRAMMATICALLY ONLY THE EXTENT, GENERAL CHARACTER AND LOCATION OF THE WORK. WORK INTENDED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED, SHALL BE FURNISHED AND INSTALLED COMPLETE BY THIS CONTRACTOR.
 - B. THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS, AND SHALL THOROUGHLY REVIEW ALL DRAWINGS, SPECIFICATIONS AND PUBLISHED ADDENDA PRIOR TO BIDDING ON THIS WORK. NO EXTRAS TO HIS CONTRACT WILL BE ALLOWED FOR FAILURE TO COMPLY WITH THIS REQUIREMENT.
- V. INSTALLATION
 - A. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN A NEAT AND FIRST CLASS MANNER, LEVEL AND PLUMB, AND SECURELY SUPPORTED. THE ENTIRE INSTALLATION, AND MANNER OF INSTALLATION SHALL MEET THE COMPLETE SATISFACTION OF THE OWNER'S REPRESENTATIVE OR IT SHALL BE REMOVED AND REWORKED AS DIRECTED BY THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
 - B. ALL WIRING SHALL BE IN CONDUIT. THE USE OF E.N.T., BX, NM, ETC. OR PRE-MANUFACTURED CABLE ASSEMBLIES OR ALUMINUM WIRE WILL NOT BE PERMITTED. MC CABLE IS ACCEPTABLE WHERE ALLOWED BY NEC.
- VI. WIRING:
 - A. EACH THREE-PHASE CIRCUIT SHALL BE RUN IN A SEPARATE CONDUIT UNLESS OTHERWISE SHOWN ON THE DRAWINGS. UNLESS OTHERWISE ACCEPTED BY THE OWNER REPRESENTATIVES (PMC), CONDUIT SHALL NOT BE INSTALLED CONCEALED UNLESS SPECIFICALLY DIRECTED TO BE EXPOSED. WHERE CIRCUITS ARE SHOWN AS "HOME-RUNS" ALL NECESSARY FITTINGS AND BOXES SHALL BE PROVIDED FOR A COMPLETE RACEWAY INSTALLATION.
- VII. CUTTING AND PATCHING
 - A. ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
 - B. NO ADDITIONAL COMPENSATION WILL BE AUTHORIZED FOR CUTTING AND PATCHING WORK THAT IS NECESSITATED BY ILL-TIMED, DEFECTIVE OR NON-CONFORMING INSTALLATIONS.
- IX. IDENTIFICATION NAMEPLATES
 - A. FURNISH AND INSTALL NAMEPLATES ON ANY NEW ITEMS OF ELECTRICAL EQUIPMENT. NAMEPLATES SHALL MATCH EXISTING. WORDING SHALL SUITABLY DESCRIBE ITEMS AND NAMEPLATES SHALL BE ATTACHED USING PROPER SIZE AND TYPE STAINLESS STEEL BOLTS.
- XI. WARRANTIES
 - A. GUARANTEE ALL ELECTRICAL SYSTEM MATERIALS AND WORKMANSHIP TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE AND PROPERLY CORRECT LATENT DEFECTS ARISING WITHIN THIS PERIOD UPON NOTIFICATION BY THE OWNER'S REPRESENTATIVE WITHOUT ADDITIONAL COMPENSATION
- XII. CLEANING
 - A. REGULARLY REMOVE REFUSE AND DEBRIS ACCUMULATING FROM ELECTRICAL CONSTRUCTION AND PRIOR TO ACCEPTANCE OF THIS WORK, LEAVE THE PREMISES "BROOM CLEAN" INsofar AS AFFECTED BY ELECTRICAL WORK.
 - B. CLEAN ALL LIGHT FIXTURES, LAMPS AND LENSES AND PANELBOARD INTERIORS PRIOR TO FINAL ACCEPTANCE.

RACEWAYS

- I. RACEWAYS
 - A. EXTENT OF RACEWAY WORK IS INDICATED DIAGRAMMATICALLY ON THE DRAWINGS AND IN THE SCHEDULES.
 1. WHEN SIZE IS NOT INDICATED ON PLANS, CONDUIT SHALL BE SIZED FOR CONDUCTORS IN ACCORDANCE WITH TABLES 4(A)(B)(C), CHAPTER 9 OF THE N.E.C.
 2. THE ROUTING AND METHOD OF INSTALLATION OF ALL CONDUITS SHALL BE CO-ORDINATED SO AS NOT TO INTERFERE WITH OTHER EQUIPMENT INSTALLATIONS AND SHALL MEET WITH THE COMPLETE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
 3. THE USE OF INTERMEDIATE METAL CONDUIT (IMC), ELECTRICAL NON-METALLIC TUBING (ENT), ARMORED CABLE (AC), OR MANUFACTURED CABLE ASSEMBLIES SHALL NOT BE INCORPORATED INTO THE WORK. MC CABLE IS ACCEPTABLE WHERE ALLOWED BY NEC. FOR 20A, 120V CIRCUITS.
 4. USE ONLY THE TYPES OF RACEWAYS SPECIFIED HERE IN.
 - B. TYPES OF RACEWAYS SPECIFIED IN THIS SECTION INCLUDE THE FOLLOWING:
 1. ELECTRICAL METALLIC TUBING (EMT); MINIMUM TRADE SIZE 1/2".
 2. FLEXIBLE METAL CONDUIT, MINIMUM TRADE SIZE 1/2".
 3. LIQUID-TIGHT FLEXIBLE METAL CONDUIT (SEALTIGHT) MINIMUM TRADE SIZE 1/2".
 4. RIGID METAL CONDUIT, MINIMUM TRADE SIZE 1/2".
 5. RIGID NONMETALLIC CONDUIT (PVC) SCHEDULE 40, MINIMUM TRADE SIZE 1/2".
 - C. FITTINGS
 1. FITTINGS FOR EMT SHALL BE STEEL SET SCREW OR COMPRESSION TYPE WITH FACTORY INSTALLED INSULATED THROAT CONNECTORS, DIE CAST OR POT METAL FITTINGS ARE NOT ACCEPTABLE.
 2. FITTINGS FOR FLEXIBLE CONDUIT SHALL BE STEEL OR CAST IRON.
 3. FITTINGS FOR RIGID CONDUIT SHALL BE STEEL THREADED TYPE.
 4. FITTINGS FOR PVC SHALL BE SCHEDULE 40 GLUE-ON TYPE.
- II. INSTALLATION OF RACEWAYS
 - A. ALL CONDUITS SHALL BE INSTALLED CONCEALED, EXCEPT IN EQUIPMENT ROOM, CHASES OR AS INDICATED ON THE DRAWINGS. ALL CONDUITS, EXPOSED AND CONCEALED SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND SHALL BE GROUPED TOGETHER AS MUCH AS POSSIBLE, EVEN ABOVE, LAY-IN CEILING.
 - B. A SEPARATE GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL RUNS. GROUNDING CONDUCTOR SIZES LARGER THAN #12 AND WHERE REQUIRED BY THE NEC, SHALL BE SIZED AS INDICATED IN THE NEC. ALL GROUNDING CONDUCTORS SHALL HAVE A GREEN OUTER COVERING, OR GREEN MARKING TAPE OVER THEIR ENTIRE EXPOSED LENGTHS.
 - C. MECHANICALLY FASTEN TOGETHER METAL CONDUITS, ENCLOSURES, AND RACEWAYS FOR CONDUCTORS TO FORM A CONTINUOUS ELECTRICAL CONDUCTOR. CONNECT TO ELECTRICAL BOXES, FITTINGS AND CABINETS TO PROVIDE ELECTRICAL CONTINUITY AND FIRM MECHANICAL ASSEMBLY.
 - D. AVOID USE OF DISSIMILAR METALS THROUGHOUT SYSTEM TO ELIMINATE POSSIBILITY OF ELECTROLYSIS.
 - E. INSTALL EXPANSION FITTINGS IN RACEWAYS EVERY 200' LINEAR RUN OR WHEREVER STRUCTURAL EXPANSION JOINTS ARE CROSSED.
 - F. PROVIDE NYLON PULL CORD IN ALL EMPTY CONDUITS.
 - G. CONDUIT INSTALLATION
 1. USE E.M.T. FOR ALL INTERIOR CONCEALED AND FOR EXPOSED WORK NOT SUBJECT TO MECHANICAL INJURY.
 2. USE P.V.C. FOR ALL UNDER SLAB WORK OR WORK INSTALLED IN CONCRETE. USE RIGID METAL CONDUIT ELBOW AT STUP-UP LOCATIONS.
 3. USE FLEXIBLE METAL CONDUIT FROM OUTLET BOXES TO RECESSED LIGHTING FIXTURE AND FINAL 24" OF CONNECTION TO ITEMS SUBJECT TO MOVEMENT OR VIBRATION.
 4. USE LIQUID-TIGHT FLEXIBLE CONDUIT FOR FINAL 24" CONNECTION TO ITEMS WHERE SUBJECTED TO ONE OR MORE OF THE FOLLOWING CONDITIONS:
 - a. MOIST OR HUMID ATMOSPHERE WHERE CONDENSATE CAN BE EXPECTED TO ACCUMULATE.
 - b. CORROSIVE ATMOSPHERE.
 - c. SUBJECT TO WATER SPRAY OR DRIPPING OIL, WATER OR GREASE.
 - d. FINAL CONNECTION TO ROTATING OR VIBRATING EQUIPMENT.
 5. CUT CONDUITS STRAIGHT, PROPERLY REAM AND CUT THREADS FOR HEAVY WALL CONDUIT DEEP AND CLEAN.
 6. FIELD BEND CONDUIT WITH BENDERS DESIGNED FOR THE PURPOSE SO AS NOT TO DISTORT NOR VARY INTERNAL DIAMETER.

CONDUCTORS

- I. CONDUCTORS
 - A. ALL WIRE SHALL BE COPPER WITH THWN INSULATION.
 - B. THE USE OF ARMORED , BX, NM, OR ANY MANUFACTURED CABLE ASSEMBLY (EXCEPT MC) SHALL NOT BE INCORPORATED INTO THE WORK.
 - C. MC CABLE SHALL BE ACCEPTABLE FOR USE ON ALL 20 AMP 120V BREAKER CIRCUITS, ALL CIRCUITS 30 AMPS AND ABOVE AND ALL 208 VOLTS SHALL BE IN RACEWAY.
 - D. ALL WIRING SHALL BE IN CONDUIT.
 - E. COLOR CODING OF CONDUCTORS SHALL BE AS FOLLOWS:
 1. 120/208V SYSTEMS: PHASE A- BLACK, PHASE B- RED, PHASE C- BLUE, NEUT. - WHITE, GND. - GREEN.
 - F. AWG #10 AND SMALLER SHALL BE SOLID. AWG #8 AND LARGER SHALL BE STRANDED.
- II. WIRE CONNECTIONS
 - A. ALL FEEDER AND SUB-FEEDER WIRING CONNECTIONS SHALL BE MADE WITH COMPRESSION CONNECTORS BY SQUARE D OR ACCEPTABLE EQUIVALENT.
 - B. ALL BRANCH WIRING CONNECTIONS SHALL BE 3M SCOTCH LOCK CONNECTORS OR ACCEPTABLE EQUIVALENT.
 - C. WHERE CABLE CONNECTIONS REQUIRE INSULATION, SCOTCH #33, ELECTRICAL TAPE SHALL BE USED FOR WRAPPING.

BOXES AND FITTINGS

- I. BOXES AND FITTINGS
 - A. EXTENT OF ELECTRICAL BOX AND ASSOCIATED FITTING WORK IS INDICATED BY DRAWINGS AND SCHEDULES.
- II. OUTLET BOXES
 - A. CEILING: 4" SQUARE, 2-1/8" DEEP FOR EXPOSED OR FURRED WORK; 3" DEEP FOR BOXES POURED IN CONCRETE. PROVIDE CONCRETE POUR BOXES OF THE TYPE SPECIALLY DESIGNED FOR THE APPLICATION. PROVIDE PLASTER RINGS WHERE REQUIRED.
 - B. WALL: 4" SQUARE, 2-1/8" DEEP BOXES: PROVIDE EXTENSION RINGS OR COVERS OF SUFFICIENT DEPTH TO BRING COVERS FLUSH WITH THE FINISHED SURFACE.
 - C. MASONRY: FOR FLUSH MOUNTED BOXES IN EXPOSED MASONRY OR TILE, PROVIDE COVERS WITH SQUARE CORNERS ON THE RAISED PORTION AND WITH SUFFICIENT DEPTH TO TRIM OUT FLUSH WITH FINISHED SURFACE.
- III. PULL AND JUNCTION BOXES
 - A. PROVIDE BOXES WHERE REQUIRED TO FACILITATE THE PULLING OF WIRES OR CABLES. BOXES SHALL BE IN ACCORDANCE WITH ARTICLE 314 OF N.E.C..
- IV. ACCESSORIES
 - A. PROVIDE CORROSION-RESISTANT KNOCKOUT CLOSURES, CONDUIT LOCKNUTS AND MALLEABLE IRON CONDUIT BUSHINGS, OFFSET CONNECTORS, OF TYPES AND SIZES, TO SUIT RESPECTIVE INSTALLATION REQUIREMENTS AND APPLICATIONS.
- V. INSTALLATION OF BOXES AND FITTINGS
 - A. POSITION RECESSED OUTLET BOXES ACCURATELY TO ALLOW FOR SURFACE FINISH THICKNESS.
 - B. FASTEN ELECTRICAL BOXES FIRMLY AND RIGIDLY TO SUBSTRATES OR STRUCTURAL SURFACES TO WHICH ATTACHED OR SOLIDLY EMBED ELECTRICAL BOXES IN CONCRETE OR MASONRY.
- VI. LOCATIONS OF OUTLETS
 - A. IN GENERAL THE VARIOUS OUTLETS ARE TO BE LOCATED AT THE FOLLOWING HEIGHTS ABOVE FINISHED FLOOR TO THE CENTER LINE OF BOX, UNLESS NOTED OTHERWISE AT AN INDIVIDUAL OUTLET ON THE DRAWINGS:
 - A. WALL SWITCHES (VERT. MTD.) 48"
 - B. RECEPTACLES (VERT. MTD.) 18"
 - C. PHONE OUTLETS (VERT. MTD.) 18"
 - B. OUTLET MOUNTING HEIGHTS INDICATED ON THE DRAWINGS TAKE PRECEDENCE. REFER TO DRAWINGS FOR DETAILS OF OTHER EQUIPMENT MOUNTING HEIGHTS. MOUNTING HEIGHTS FOR FLUSH OUTLETS IN BLOCK WALLS MAY BE CHANGED FOR INSTALLATION. CONSULT OWNER'S REPRESENTATIVE IN FIELD PRIOR TO ANY SUCH INSTALLATION.

CONNECTIONS FOR EQUIPMENT

- I. CONNECTIONS FOR EQUIPMENT
 - A. GENERAL: FOR EACH ELECTRICAL CONNECTION INDICATED PROVIDE COMPLETE ASSEMBLY OF MATERIALS, INCLUDING BUT NOT NECESSARILY LIMITED TO, PRESSURE CONNECTORS, TERMINALS (LUGS), ELECTRICAL INSULATING TAPE, HEAT-SHRINKABLE INSULATING TUBING, CABLE TIES, SOLDERLESS WIRE-NUTS, AND OTHER ITEMS AND ACCESSORIES AS NEEDED TO COMPLETE SPLICES AND TERMINATIONS OF TYPES INDICATED.

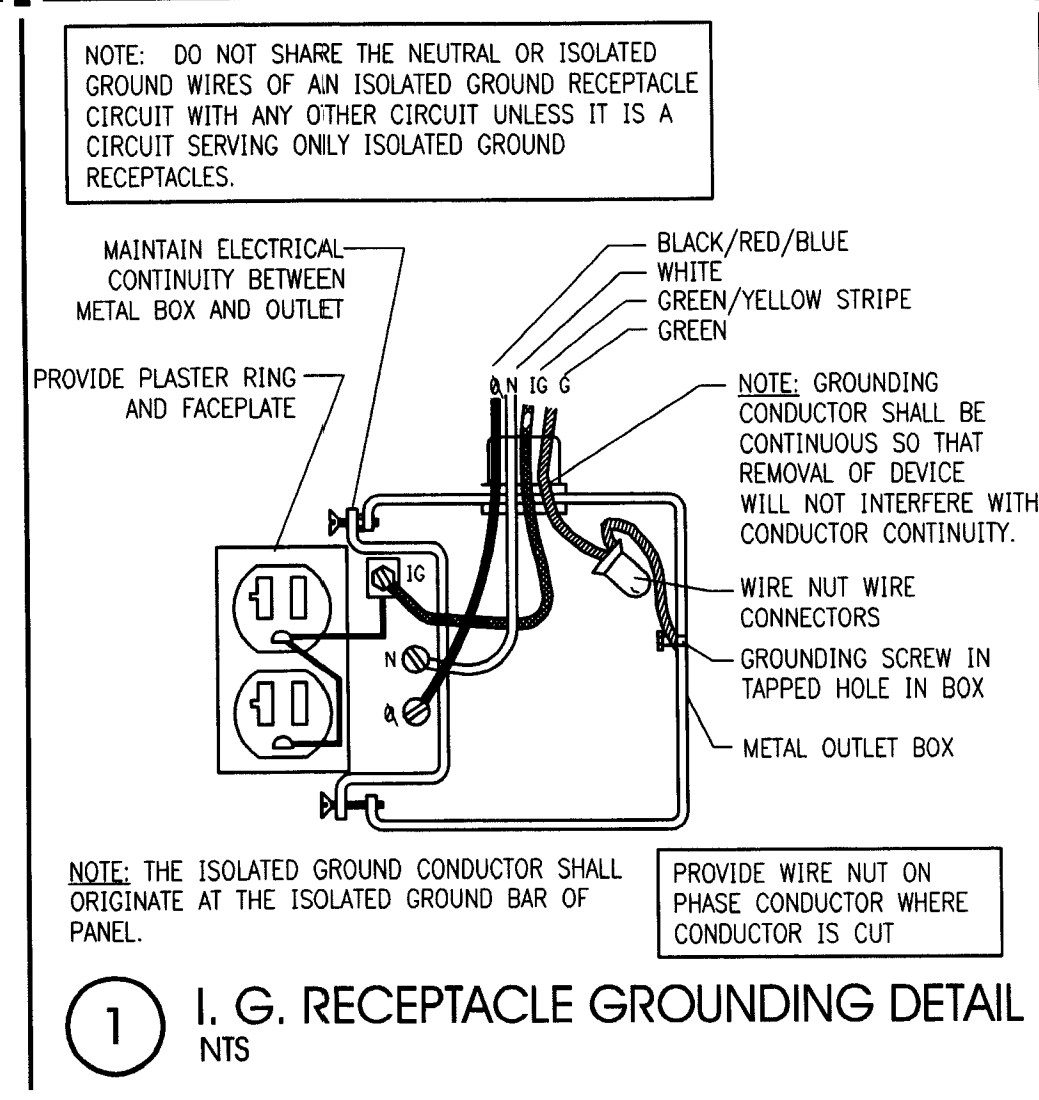
WIRING DEVICES

- I. WIRING DEVICES
 - A. THE EXTENT OF WIRING DEVICE WORK IS INDICATED BY THE DRAWINGS AND SCHEDULES.
 - B. PROVIDE WIRING DEVICES WHICH ARE ILL LISTED AND LABELED.
- II. ACCEPTABLE MANUFACTURERS
 - A. HUBBELL CO.
 - B. GENERAL ELECTRIC CO.
 - C. LEVITON MFG. CO.
- III. FABRICATED WIRING DEVICES
 - A. SWITCHES SHALL BE 20 AMP, 120/277 VOLT RATED, HUBBELL #1221 - IVORY OR BROWN. (MATCH EXISTING)
 - B. RECEPTACLES SHALL BE 20 AMP 125 VOLT RATED, HUBBELL #5362 - IVORY OR BROWN. (MATCH EXISTING) FOR OTHER APPLICATIONS REFER TO THE DRAWINGS.
 - C. PROVIDE SMOOTH FINISH PLATES FOR ALL DEVICES WITH APPROPRIATE MOUNTING ARRANGEMENTS FOR GANGED DEVICES. FOR TELEPHONE AND DATA OUTLETS PROVIDE BUSHED HOLE COVER PLATES. PLATES SHALL BE IVORY, BROWN OR GRAY STAINLESS STEEL. (MATCH EXISTING)
 1. IVORY PLATES FOR ALL AREAS, EXCEPT BROWN PLATES ON WOOD OR DARK SURFACES. (MATCH EXISTING)
 2. IVORY DEVICES WHERE 302 STAINLESS STEEL OR IVORY PLATES ARE USED.
 3. BROWN DEVICES WHERE BROWN PLATES ARE USED.

LIGHTING FIXTURES

- I. LIGHTING FIXTURES
 - A. HANDLE LIGHTING FIXTURES CAREFULLY TO PREVENT DAMAGE, BREAKING AND SCORING. DO NOT INSTALL DAMAGED FIXTURES OR COMPONENTS. REPLACE WITH NEW.
 - B. SHIP FIXTURES FACTORY ASSEMBLED, WITH PARTS REQUIRED FOR A COMPLETE INSTALLATION.
 - C. FLUORESCENT BALLAST SHALL BE CLASS P, LOW-ENERGY RAPID START SOUND RATED A.
 - D. PROVIDE FLUORESCENT LAMPS OF TYPES INDICATED.
 - E. PROVIDE FIXTURES AND/OR FIXTURE OUTLET BOXES WITH HANGERS TO PROPERLY SUPPORT FIXTURE WEIGHT.
 - F. INSTALL FLUSH MOUNTED FIXTURES TO ELIMINATE LIGHT LEAKAGE BETWEEN FRAME AND FINISHED SURFACE.
 - G. AT DATE OF SUBSTANTIAL COMPLETION REPLACE LAMPS IN ALL FIXTURES WHICH ARE OBSERVED TO BE INOPERATIVE OR NOTICEABLY DIMMED AFTER CONTRACTORS USE AS JUDGED BY THE OWNER'S REPRESENTATIVE

LOAD SUMMARY			
PANEL	DECREASE (AMPS)	INCREASE (AMPS)	TOTAL LOAD (AMPS)
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1 I. G. RECEPTACLE GROUNDING DETAIL NTS

NOTICE
THIS PROJECT DOES NOT HAVE AN EXISTING FIRE ALARM SYSTEM OR AN EXISTING FIRE SPRINKLER SYSTEM. THESE ITEMS ARE NOT REQUIRED FOR THIS PROJECT.

LEGEND

- RECESSED FLUORESCENT LIGHTING FIXTURE
- RECESSED LIGHTING FIXTURE
- EXIT LIGHT (HATCHING DENOTES FACE)
- WALL MOUNTED LIGHTING FIXTURE. SEE SCHEDULE FOR MOUNTING HEIGHT.
- SURFACE OR PENDANT MOUNTED FLUORESCENT LIGHTING FIXTURE
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- HOMERUN TO PANELBOARD
- CEILING MOUNTED SMOKE DETECTOR
- CEILING MOUNTED SPEAKER

ABBREVIATIONS

- WP WEATHERPROOF
- AFF ABOVE FINISHED FLOOR
- UNO UNLESS NOTED OTHERWISE
- GF1 GROUND FAULT INTERRUPT
- O.C. ON CENTER
- ETR EXISTING TO REMAIN
- PMC PROJECT MANAGEMENT COMPANY

CONTINUITY OF SERVICE

CONTINUED OPERATION OF EXISTING ELECTRICAL SHALL BE MAINTAINED DURING RENOVATION CONSTRUCTION TO THE MAXIMUM EXTENT POSSIBLE. ANY INTERRUPTION TO NORMAL BANKING OPERATIONS SHALL BE COORDINATED WITH THE OWNERS REPRESENTATIVE (PMC) AND SHALL OCCUR ONLY WHEN APPROVED AND SCHEDULED WITH THE OWNER.

ELECTRICAL DRAWING INDEX	
SHEET	DESCRIPTION
E0.0	SPECIFICATIONS, SYMBOL LEGEND AND DRAWING INDEX
E1.0	ELECTRICAL PLAN - LIGHTING
E2.0	ELECTRICAL PLAN - POWER
E3.0	ELECTRICAL PLAN - SYSTEMS
E4.0	ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES

INTERPLAN LLC
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SEAL:
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CONSULTANT:

REVISIONS:
NO. DATE REMARKS
1 06-10-09 PERMIT COMMENTS

CHASE
INTERIOR REBRANDING CONVERSION
MIAMI BEACH - ALTON ROAD
WAMU BLDG ID# 1924 CHASE STORE ID# 1742
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PROJECT NO: 2009.0109
DATE: 04/30/2009

**SPECS., SYMBOL
LEGEND AND
DRAWING INDEX**

E0.0

DRAWN BY: SN
CHECKED BY: MGR

SECTION 16000 – ELECTRICAL SPECIFICATIONS

DEMOLITION

I. SITE INVESTIGATION:

- A. OBTAIN IN THE FIELD ALL INFORMATION RELEVANT TO THE PLACING OF ELECTRICAL WORK AND IN CASE OF INTERFERENCE WITH OTHER WORK, PROCEED AS DIRECTED BY THE OWNER REPRESENTATIVES (PMC) AND PROVIDE ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK IN AN ACCEPTABLE MANNER.
- C. SPECIAL CONSIDERATIONS: SPECIAL ATTENTION IS CALLED TO THE FACT THAT THERE WILL BE PIPING, FIXTURES OR OTHER ITEMS IN THE EXISTING BUILDING WHICH MUST BE REMOVED OR RELOCATED IN ORDER TO PERFORM THE ALTERATION WORK. BID SHALL INCLUDE ALL REMOVAL AND RELOCATION REQUIRED FOR COMPLETION OF THE ALTERATIONS AND THE NEW CONSTRUCTION.
- D. OWNER'S SALVAGE: THE OWNER RESERVES THE RIGHT TO INSPECT THE MATERIAL SCHEDULED FOR REMOVAL AND SALVAGE ANY ITEMS HE DEEMS USABLE AS SPARE PARTS.

II. EXISTING CONDITIONS:

- III. SUPPORT: ALL EXISTING CONDUIT AND CABLES WITHIN THE AREA OF RENOVATION SHALL BE PROVIDED WITH PROPER SUPPORTS AS SPECIFIED FOR NEW WORK IN OTHER SECTIONS OF THIS SPECIFICATION.
- IV. INSTALLATION: ALL EXISTING ELECTRICAL WHICH IS DESIGNATED FOR REWORKING OR REQUIRES RELOCATION, REPAIR OR ADJUSTMENT SHALL CONFORM TO ALL APPLICABLE CODES AND SHALL BE TREATED AS NEW WORK COMPLYING TO ALL SECTIONS OF THIS SPECIFICATION.
- VI. VIOLATIONS: WHERE EXISTING CONDITIONS ARE DISCOVERED WHICH ARE NOT IN COMPLIANCE WITH THE CODES AND STANDARDS, THE CONTRACTOR SHALL SUBMIT PROPER DOCUMENTATION TO THE OWNER REPRESENTATIVES (PMC) FOR CLARIFICATION AND CORRECTIVE WORK DIRECTION. EXISTING CONDITIONS SHALL NOT REMAIN WHICH WILL CREATE A DISAPPROVAL OF THE RENOVATED AREA.
- VII. PATCHING: ALL EXISTING CONDUIT AND CABLE PENETRATIONS SHALL BE PROPERLY FIRE TREATED PER CODE AND SPECIFICATION REQUIREMENTS. THE CONTRACTOR SHALL THOROUGHLY INSPECT ALL EXISTING LOCATIONS AND INCLUDE THE COST OF PATCHING AND REPAIR IN HIS PROPOSED CONSTRUCTION COST.

GENERAL

I. GENERAL

- A. THE CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR & EQUIP. NECESSARY TO COMPLETELY INSTALL ELECTRICAL & RELATED WORK INDICATED ON THE DRAWINGS AND IN THESE SPECIFICATIONS.

II. DISCREPANCIES

- A. NOTIFY THE OWNER REPRESENTATIVES (PMC) OF ANY DISCREPANCIES FOUND DURING CONSTRUCTION OF THE PROJECT AND DO NOT PROCEED WITH THAT PORTION OF THE PROJECT UNTIL A WRITTEN DEFINITIVE STATEMENT IS RECEIVED PROVIDING CLEAR DIRECTION. IF A CONFLICT EXISTS BETWEEN THE CONTRACT DOCUMENTS AND ANY APPLICABLE CODE OR STANDARD, THE MOST STRINGENT REQUIREMENT SHALL BE INCLUDED FOR THIS PROJECT. THE OWNER REPRESENTATIVES (PMC) SHALL MAKE THE DECISION REGARDING QUESTIONABLE AREAS OF CONFLICT.

III. CODE

- A. ALL EQUIPMENT, WIRING AND THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.), O.S.H.A. REQUIREMENTS, LIFE SAFETY CODE AND ALL APPLICABLE LOCAL AND STATE LAWS AND ORDINANCES.
- B. THE CONTRACTOR SHALL PAY ALL INSPECTION FEES AND PURCHASE ALL PERMITS REQUIRED FOR THIS WORK.

IV. LOCATION OF EQUIPMENT

- A. THE CONTRACTOR SHALL NOTE THAT THE ELECTRICAL DRAWINGS ARE INTENDED TO INDICATE DIAGRAMMATICALLY ONLY THE EXTENT, GENERAL CHARACTER AND LOCATION OF THE WORK. WORK INTENDED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED, SHALL BE FURNISHED AND INSTALLED COMPLETE BY THIS CONTRACTOR.
- B. THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS, AND SHALL THOROUGHLY REVIEW ALL DRAWINGS, SPECIFICATIONS AND PUBLISHED ADDENDA PRIOR TO BIDDING ON THIS WORK. NO EXTRAS TO HIS CONTRACT WILL BE ALLOWED FOR FAILURE TO COMPLY WITH THIS REQUIREMENT.

V. INSTALLATION

- A. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN A NEAT AND FIRST CLASS MANNER, LEVEL AND PLUMB, AND SECURELY SUPPORTED. THE ENTIRE INSTALLATION, AND MANNER OF INSTALLATION SHALL MEET THE COMPLETE SATISFACTION OF THE OWNER'S REPRESENTATIVE OR IT SHALL BE REMOVED AND REWORKED AS DIRECTED BY THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
- B. ALL WIRING SHALL BE IN CONDUIT. THE USE OF E.M.T., BX, NM, ETC. OR PRE-MANUFACTURED CABLE ASSEMBLIES OR ALUMINUM WIRE WILL NOT BE PERMITTED. MC CABLE IS ACCEPTABLE WHERE ALLOWED BY NEC.

VII. WIRING:

- A. EACH THREE-PHASE CIRCUIT SHALL BE RUN IN A SEPARATE CONDUIT UNLESS OTHERWISE SHOWN ON THE DRAWINGS. UNLESS OTHERWISE ACCEPTED BY THE OWNER REPRESENTATIVES (PMC), CONDUIT SHALL NOT BE INSTALLED CONCEALED UNLESS SPECIFICALLY DIRECTED TO BE EXPOSED. WHERE CIRCUITS ARE SHOWN AS "HOME-RUNS" ALL NECESSARY FITTINGS AND BOXES SHALL BE PROVIDED FOR A COMPLETE RACEWAY INSTALLATION.

VIII. CUTTING AND PATCHING

- A. ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- B. NO ADDITIONAL COMPENSATION WILL BE AUTHORIZED FOR CUTTING AND PATCHING WORK THAT IS NECESSITATED BY ILL-TIMED, DEFECTIVE OR NON-CONFORMING INSTALLATIONS.

IX. IDENTIFICATION NAMEPLATES

- A. FURNISH AND INSTALL NAMEPLATES ON ANY NEW ITEMS OF ELECTRICAL EQUIPMENT. NAMEPLATES SHALL MATCH EXISTING. WORDING SHALL SUITABLY DESCRIBE TYPES AND NAMEPLATES SHALL BE ATTACHED USING PROPER SIZE AND TYPE STAINLESS STEEL BOLTS.

XI. WARRANTIES

- A. GUARANTEE ALL ELECTRICAL SYSTEM MATERIALS AND WORKMANSHIP TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE AND PROPERLY CORRECT LATENT DEFECTS ARISING WITHIN THIS PERIOD UPON NOTIFICATION BY THE OWNER'S REPRESENTATIVE WITHOUT ADDITIONAL COMPENSATION.

XII. CLEANING

- A. REGULARLY REMOVE REFUSE AND DEBRIS ACCUMULATING FROM ELECTRICAL CONSTRUCTION AND PRIOR TO ACCEPTANCE OF THIS WORK, LEAVE THE PREMISES "BROOM CLEAN" INSOFAR AS AFFECTED BY ELECTRICAL WORK.
- B. CLEAN ALL LIGHT FIXTURES, LAMPS AND LENSES AND PANELBOARD INTERIORS PRIOR TO FINAL ACCEPTANCE.

RACEWAYS

I. RACEWAYS

- A. EXTENT OF RACEWAY WORK IS INDICATED DIAGRAMMATICALLY ON THE DRAWINGS AND IN THE SCHEDULES.
- 1. WHEN SIZE IS NOT INDICATED ON PLANS, CONDUIT SHALL BE SIZED FOR CONDUCTORS IN ACCORDANCE WITH TABLES 4(A)(B)(C), CHAPTER 9 OF THE N.E.C.
- 2. THE ROUTING AND METHOD OF INSTALLATION OF ALL CONDUITS SHALL BE CO-ORDINATED SO AS NOT TO INTERFERE WITH OTHER EQUIPMENT INSTALLATIONS AND SHALL MEET WITH THE COMPLETE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- 3. THE USE OF INTERMEDIATE METAL CONDUIT (IMC), ELECTRICAL NON-METALLIC TUBING (ENT), ARMORED CABLE (AC), OR MANUFACTURED CABLE ASSEMBLIES SHALL NOT BE INCORPORATED INTO THE WORK. MC CABLE IS ACCEPTABLE WHERE ALLOWED BY NEC. FOR 20A, 120V CIRCUITS.
- 4. USE ONLY THE TYPES OF RACEWAYS SPECIFIED HERE IN.

B. TYPES OF RACEWAYS SPECIFIED IN THIS SECTION INCLUDE THE FOLLOWING:

- 1. ELECTRICAL METALLIC TUBING (EMT), MINIMUM TRADE SIZE 1/2".
- 2. FLEXIBLE METAL CONDUIT, MINIMUM TRADE SIZE 1/2".
- 3. LIQUID-TIGHT FLEXIBLE METAL CONDUIT (SEALTIGHT) MINIMUM TRADE SIZE 1/2".
- 4. RIGID METAL CONDUIT, MINIMUM TRADE SIZE 1/2".
- 5. RIGID NONMETALLIC CONDUIT (PVC), SCHEDULE 40, MINIMUM TRADE SIZE 1/2".

C. FITTINGS

- 1. FITTINGS FOR EMT SHALL BE STEEL SET SCREW OR COMPRESSION TYPE WITH FACTORY INSTALLED INSULATED THROAT CONNECTORS, DIE CAST OR POT METAL FITTINGS ARE NOT ACCEPTABLE.
- 2. FITTINGS FOR FLEXIBLE CONDUIT SHALL BE STEEL OR CAST IRON.
- 3. FITTINGS FOR RIGID CONDUIT SHALL BE STEEL THREADED TYPE.
- 4. FITTINGS FOR PVC SHALL BE SCHEDULE 40 GLUE-ON TYPE.

II. INSTALLATION OF RACEWAYS

- A. ALL CONDUITS SHALL BE INSTALLED CONCEALED, EXCEPT IN EQUIPMENT ROOM, CHASES OR AS INDICATED ON THE DRAWINGS. ALL CONDUITS, EXPOSED AND CONCEALED SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND SHALL BE GROUPED TOGETHER AS MUCH AS POSSIBLE, EVEN ABOVE LAY-IN CEILINGS.
- B. A SEPARATE GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL RUNS. GROUNDING CONDUCTOR SIZES LARGER THAN #12 AWG WHERE REQUIRED BY THE NEC, SHALL BE SIZED AS INDICATED IN THE NEC. ALL GROUNDING CONDUCTORS SHALL HAVE A GREEN OUTER COVERING, OR GREEN MARKING TAPE OVER THEIR ENTIRE EXPOSED LENGTHS.
- C. MECHANICALLY FASTEN TOGETHER METAL CONDUITS, ENCLOSURES, AND RACEWAYS FOR CONDUCTORS TO FORM A CONTINUOUS ELECTRICAL CONDUCTOR. CONNECT TO ELECTRICAL BOXES, FITTINGS AND CABINETS TO PROVIDE ELECTRICAL CONTINUITY AND FIRM MECHANICAL ASSEMBLY.
- D. AVOID USE OF DISSIMILAR METALS THROUGH SYSTEM TO ELIMINATE POSSIBILITY OF ELECTROLYSIS.
- E. INSTALL EXPANSION FITTINGS IN RACEWAYS EVERY 200' LINEAR RUN OR WHEREVER STRUCTURAL EXPANSION JOINTS ARE CROSSED.
- F. PROVIDE NYLON PULL CORD IN ALL EMPTY CONDUITS.
- G. CONDUIT INSTALLATION
 - 1. USE E.M.T. FOR ALL INTERIOR CONCEALED AND FOR EXPOSED WORK NOT SUBJECT TO MECHANICAL INJURY.
 - 2. USE P.V.C. FOR ALL UNDER SLAB WORK OR WORK INSTALLED IN CONCRETE. USE RIGID METAL CONDUIT ELBOW AT STUP-UP LOCATIONS.
 - 3. USE FLEXIBLE METAL CONDUIT FROM OUTLET BOXES TO RECESSED LIGHTING FIXTURE AND FINAL 24" OF CONNECTION TO ITEMS SUBJECT TO MOVEMENT OR VIBRATION.
 - 4. USE LIQUID-TIGHT FLEXIBLE CONDUIT FOR FINAL 24" CONNECTION TO ITEMS WHERE SUBJECTED TO ONE OR MORE OF THE FOLLOWING CONDITIONS:
 - a. MOIST OR HUMID ATMOSPHERE WHERE CONDENSATE CAN BE EXPECTED TO ACCUMULATE.
 - b. CORROSIVE ATMOSPHERE.
 - c. SUBJECTED TO WATER SPRAY OR DRIPPING OIL, WATER OR GREASE.
 - d. FINAL CONNECTION TO ROTATING OR VIBRATING EQUIPMENT.
 - 5. CUT CONDUITS STRAIGHT, PROPERLY REAM AND CUT THREADS FOR HEAVY WALL CONDUIT DEEP AND CLEAN.
 - 6. FIELD BEND CONDUIT WITH BENDERS DESIGNED FOR THE PURPOSE SO AS NOT TO DISTORT NOR VARY INTERNAL DIAMETER.

CONDUCTORS

I. CONDUCTORS

- A. ALL WIRE SHALL BE COPPER WITH THWN INSULATION.
- B. THE USE OF ARMORED BX, NM, OR ANY MANUFACTURED CABLE ASSEMBLY (EXCEPT MC) SHALL NOT BE INCORPORATED INTO THE WORK.
- C. MC CABLE SHALL BE ACCEPTABLE FOR USE ON ALL 20 AMP 120V BREAKER CIRCUITS, ALL CIRCUITS 30 AMPS AND ABOVE AND ALL 208 VOLTS SHALL BE IN RACEWAY.
- D. ALL WIRING SHALL BE IN CONDUIT.
- E. COLOR CODING OF CONDUCTORS SHALL BE AS FOLLOWS:
 - 1. 120/208V SYSTEMS: PHASE A- BLACK, PHASE B- RED, PHASE C- BLUE, NEUT. - WHITE, GND. - GREEN.
 - 2. AWG #10 AND SMALLER SHALL BE SOLID. AWG #8 AND LARGER SHALL BE STRANDED.

II. WIRE CONNECTIONS

- A. ALL FEEDER AND SUB-FEEDER WIRING CONNECTIONS SHALL BE MADE WITH COMPRESSION CONNECTORS BY SQUARE D OR ACCEPTABLE EQUIVALENT.
- B. ALL BRANCH WIRING CONNECTIONS SHALL BE 3M SCOTCH LOCK CONNECTORS OR ACCEPTABLE EQUIVALENT.
- C. WHERE CABLE CONNECTIONS REQUIRE INSULATION, SCOTCH #33, ELECTRICAL TAPE SHALL BE USED FOR WRAPPING.

BOXES AND FITTINGS

I. BOXES AND FITTINGS

- A. EXTENT OF ELECTRICAL BOX AND ASSOCIATED FITTING WORK IS INDICATED BY DRAWINGS AND SCHEDULES.

II. OUTLET BOXES

- A. CEILING: 4" SQUARE, 2-1/8" DEEP FOR EXPOSED OR FURRED WORK; 3" DEEP FOR BOXES POURED IN CONCRETE. PROVIDE CONCRETE POUR BOXES OF THE TYPE SPECIALLY DESIGNED FOR THE APPLICATION. PROVIDE PLASTER RINGS WHERE REQUIRED.
- B. WALL: 4" SQUARE, 2-1/8" DEEP BOXES; PROVIDE EXTENSION RINGS OR COVERS OF SUFFICIENT DEPTH TO BRING COVERS FLUSH WITH THE FINISHED SURFACE.
- C. MASONRY: FOR FLUSH MOUNTED BOXES IN EXPOSED MASONRY OR TILE, PROVIDE COVERS WITH SQUARE CORNERS ON THE RAISED PORTION AND WITH SUFFICIENT DEPTH TO TRIM OUT FLUSH WITH FINISHED SURFACE.

III. PULL AND JUNCTION BOXES

- A. PROVIDE BOXES WHERE REQUIRED TO FACILITATE THE PULLING OF WIRES OR CABLES. BOXES SHALL BE IN ACCORDANCE WITH ARTICLE 314 OF N.E.C.

IV. ACCESSORIES

- A. PROVIDE CORROSION-RESISTANT KNOCKOUT CLOSURES, CONDUIT LOCKNUTS AND MALLEABLE IRON CONDUIT BUSHINGS, OFFSET CONNECTORS, OF TYPES AND SIZES, TO SUIT RESPECTIVE INSTALLATION REQUIREMENTS AND APPLICATIONS.

V. INSTALLATION OF BOXES AND FITTINGS

- A. POSITION RECESSED OUTLET BOXES ACCURATELY TO ALLOW FOR SURFACE FINISH THICKNESS.
- B. FASTEN ELECTRICAL BOXES FIRMLY AND RIGIDLY TO SUBSTRATES OR STRUCTURAL SURFACES TO WHICH ATTACHED OR SOLIDLY EMBED ELECTRICAL BOXES IN CONCRETE OR MASONRY.

VI. LOCATIONS OF OUTLETS

- A. IN GENERAL THE VARIOUS OUTLETS ARE TO BE LOCATED AT THE FOLLOWING HEIGHTS ABOVE FINISHED FLOOR TO THE CENTER LINE OF BOX, UNLESS NOTED OTHERWISE AT AN INDIVIDUAL OUTLET ON THE DRAWINGS:
 - A. WALL SWITCHES (VERT. MTD.) 48"
 - B. RECEPTACLES (VERT. MTD.) 18"
 - C. PHONE OUTLETS (VERT. MTD.) 18"
- B. OUTLET MOUNTING HEIGHTS INDICATED ON THE DRAWINGS TAKE PRECEDENCE. REFER TO DRAWINGS FOR DETAILS OF OTHER EQUIPMENT MOUNTING HEIGHTS. MOUNTING HEIGHTS FOR FLUSH OUTLETS IN BLOCK WALLS MAY BE CHANGED FOR INSTALLATION. CONSULT OWNER'S REPRESENTATIVE IN FIELD PRIOR TO ANY SUCH INSTALLATION.

CONNECTIONS FOR EQUIPMENT

I. CONNECTIONS FOR EQUIPMENT

- A. GENERAL: FOR EACH ELECTRICAL CONNECTION INDICATED PROVIDE COMPLETE ASSEMBLY OF MATERIALS, INCLUDING BUT NOT NECESSARILY LIMITED TO, PRESSURE CONNECTORS, TERMINALS (LUGS), ELECTRICAL INSULATING TAPE, HEAT-SHRINKABLE INSULATING TUBING, CABLE TIES, SOLDERLESS WIRE-NUTS, AND OTHER ITEMS AND ACCESSORIES AS NEEDED TO COMPLETE SPLICES AND TERMINATIONS OF TYPES INDICATED.

WIRING DEVICES

I. WIRING DEVICES

- A. THE EXTENT OF WIRING DEVICE WORK IS INDICATED BY THE DRAWINGS AND SCHEDULES.
- B. PROVIDE WIRING DEVICES WHICH ARE U.L. LISTED AND LABELED.

II. ACCEPTABLE MANUFACTURERS

- A. HUBBELL CO.
- B. GENERAL ELECTRIC CO.
- C. LEVITON MFG. CO.

III. FABRICATED WIRING DEVICES

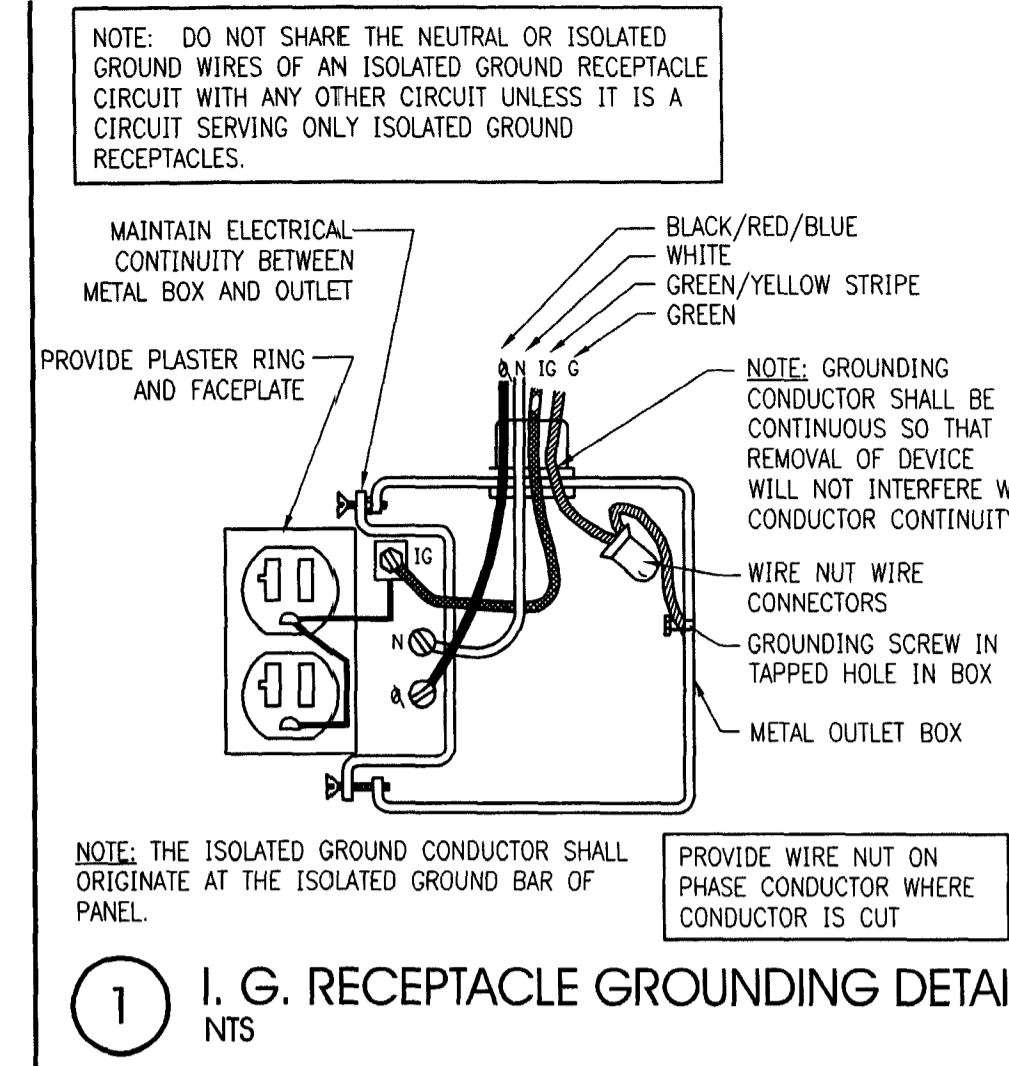
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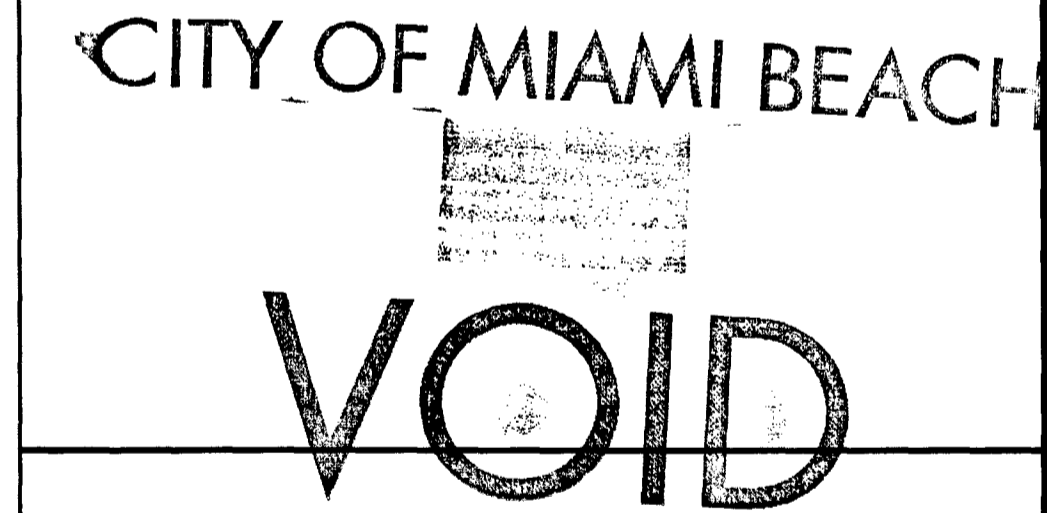
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ELECTRICAL DRAWING INDEX

SHEET	DESCRIPTION
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**SPECS., SYMBOL
LEGEND AND
DRAWING INDEX**
E0.0
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SECTION 16000 – ELECTRICAL SPECIFICATIONS

DEMOLITION

I. SITE INVESTIGATION:

- OBTAIN IN THE FIELD ALL INFORMATION RELEVANT TO THE PLACING OF ELECTRICAL WORK AND IN CASE OF INTERFERENCE WITH OTHER WORK, PROCEED AS DIRECTED BY THE OWNER REPRESENTATIVES (PMC) AND PROVIDE ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK IN AN ACCEPTABLE MANNER.
- SPECIAL CONSIDERATIONS: SPECIAL ATTENTION IS CALLED TO THE FACT THAT THERE WILL BE PIPING, FIXTURES OR OTHER ITEMS IN THE EXISTING BUILDING WHICH MUST BE REMOVED OR RELOCATED IN ORDER TO PERFORM THE ALTERATION WORK. BID SHALL INCLUDE ALL REMOVAL AND RELOCATION REQUIRED FOR COMPLETION OF THE ALTERATIONS AND THE NEW CONSTRUCTION.
- OWNER'S SALVAGE: THE OWNER RESERVES THE RIGHT TO INSPECT THE MATERIAL SCHEDULED FOR REMOVAL AND SALVAGE ANY ITEMS HE DEEMS USABLE AS SPARE PARTS.
- EXISTING CONDITIONS:
- SUPPORT: ALL EXISTING CONDUIT AND CABLES WITHIN THE AREA OF RENOVATION SHALL BE PROVIDED WITH PROPER SUPPORTS AS SPECIFIED FOR NEW WORK IN OTHER SECTIONS OF THIS SPECIFICATION.
- INSTALLATION: ALL EXISTING ELECTRICAL WHICH IS DESIGNATED FOR REMOVING OR REQUIRES RELOCATION, REPAIR OR ADJUSTMENT SHALL CONFORM TO ALL APPLICABLE CODES AND SHALL BE TREATED AS NEW WORK COMPLYING TO ALL SECTIONS OF THIS SPECIFICATION.
- VIOLATIONS: WHERE EXISTING CONDITIONS ARE DISCOVERED WHICH ARE NOT IN COMPLIANCE WITH THE CODES AND STANDARDS, THE CONTRACTOR SHALL SUBMIT PROPER DOCUMENTATION TO THE OWNER REPRESENTATIVES (PMC) FOR CLARIFICATION AND CORRECTIVE WORK DIRECTION. EXISTING CONDITIONS SHALL NOT REMAIN WHICH WILL CREATE A DISAPPROVAL OF THE RENOVATED AREA.
- PATCHING: ALL EXISTING CONDUIT AND CABLE PENETRATIONS SHALL BE PROPERLY FIRE TREATED PER CODE AND SPECIFICATION REQUIREMENTS. THE CONTRACTOR SHALL THOROUGHLY INSPECT ALL EXISTING LOCATIONS AND INCLUDE THE COST OF PATCHING AND REPAIR IN HIS PROPOSED CONSTRUCTION COST.

GENERAL

- GENERAL
 - THE CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR & EQUIP. NECESSARY TO COMPLETELY INSTALL ELECTRICAL & RELATED WORK INDICATED ON THE DRAWINGS AND IN THESE SPECIFICATIONS.
- DISCREPANCIES
 - NOTIFY THE OWNER REPRESENTATIVES (PMC) OF ANY DISCREPANCIES FOUND DURING CONSTRUCTION OF THE PROJECT AND DO NOT PROCEED WITH THAT PORTION OF THE PROJECT, UNTIL A WRITTEN DEFINITIVE STATEMENT IS RECEIVED PROVIDING CLEAR DIRECTION. IF A CONFLICT EXISTS BETWEEN THE CONTRACT DOCUMENTS AND ANY APPLICABLE CODE OR STANDARD, THE MOST STRINGENT REQUIREMENT SHALL BE INCLUDED FOR THIS PROJECT. THE OWNER REPRESENTATIVES (PMC) SHALL MAKE THE DECISION REGARDING QUESTIONABLE AREAS OF CONFLICT.
- CODE
 - ALL EQUIPMENT, WIRING AND THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.), O.S.H.A. REQUIREMENTS, LIFE SAFETY CODE AND ALL APPLICABLE LOCAL AND STATE LAWS AND ORDINANCES.
 - THE CONTRACTOR SHALL PAY ALL INSPECTION FEES AND PURCHASE ALL PERMITS REQUIRED FOR THIS WORK.
- LOCATION OF EQUIPMENT
 - THE CONTRACTOR SHALL NOTE THAT THE ELECTRICAL DRAWINGS ARE INTENDED TO INDICATE DIAGRAMMATICALLY ONLY THE EXTENT, GENERAL CHARACTER AND LOCATION OF THE WORK. WORK INTENDED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED, SHALL BE FURNISHED AND INSTALLED COMPLETE BY THIS CONTRACTOR.
 - THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS, AND SHALL THOROUGHLY REVIEW ALL DRAWINGS, SPECIFICATIONS AND PUBLISHED ADDENDA PRIOR TO BIDDING ON THIS WORK. NO EXTRAS TO HIS CONTRACT WILL BE ALLOWED FOR FAILURE TO COMPLY WITH THIS REQUIREMENT.
- INSTALLATION
 - ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN A NEAT AND FIRST CLASS MANNER, LEVEL AND PLUMB, AND SECURELY SUPPORTED. THE ENTIRE INSTALLATION, AND MANNER OF INSTALLATION SHALL MEET THE COMPLETE SATISFACTION OF THE OWNER'S REPRESENTATIVE OR IT SHALL BE REMOVED AND REWORKED AS DIRECTED BY THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
 - ALL WIRING SHALL BE IN CONDUIT. THE USE OF E.N.T., BX, NM, ETC. OR PRE-MANUFACTURED CABLE ASSEMBLIES OR ALUMINUM WIRE WILL NOT BE PERMITTED. MC CABLE IS ACCEPTABLE WHERE ALLOWED BY NEC.
- WIRING:
 - EACH THREE-PHASE CIRCUIT SHALL BE RUN IN A SEPARATE CONDUIT UNLESS OTHERWISE SHOWN ON THE DRAWINGS. UNLESS OTHERWISE ACCEPTED BY THE OWNER REPRESENTATIVES (PMC), CONDUIT SHALL NOT BE INSTALLED CONCEALED UNLESS SPECIFICALLY DIRECTED TO BE EXPOSED. WHERE CIRCUITS ARE SHOWN AS "HOME-RUNS" ALL NECESSARY FITTINGS AND BOXES SHALL BE PROVIDED FOR A COMPLETE RACEWAY INSTALLATION.
- CUTTING AND PATCHING
 - ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
 - NO ADDITIONAL COMPENSATION WILL BE AUTHORIZED FOR CUTTING AND PATCHING WORK THAT IS NECESSITATED BY ILL- TIMED, DEFECTIVE OR NON-CONFORMING INSTALLATIONS.
- IDENTIFICATION NAMEPLATES
 - FURNISH AND INSTALL NAMEPLATES ON ANY NEW ITEMS OF ELECTRICAL EQUIPMENT. NAMEPLATES SHALL MATCH EXISTING. WORDING SHALL SUITABLY DESCRIBE ITEMS AND NAMEPLATES SHALL BE ATTACHED USING PROPER SIZE AND TYPE STAINLESS STEEL BOLTS.
- WARRANTIES
 - GUARANTEE ALL ELECTRICAL SYSTEM MATERIALS AND WORKMANSHIP TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE AND PROPERLY CORRECT LATENT DEFECTS ARISING WITHIN THIS PERIOD UPON NOTIFICATION BY THE OWNER'S REPRESENTATIVE WITHOUT ADDITIONAL COMPENSATION
- CLEANING
 - REGULARLY REMOVE REFUSE AND DEBRIS ACCUMULATING FROM ELECTRICAL CONSTRUCTION AND PRIOR TO ACCEPTANCE OF THIS WORK, LEAVE THE PREMISES "BROOM CLEAN" INsofar AS AFFECTED BY ELECTRICAL WORK.
 - CLEAN ALL LIGHT FIXTURES, LAMPS AND LENSES AND PANELBOARD INTERIORS PRIOR TO FINAL ACCEPTANCE.

RACEWAYS

- RACEWAYS
 - EXTENT OF RACEWAY WORK IS INDICATED DIAGRAMMATICALLY ON THE DRAWINGS AND IN THE SCHEDULES.
 - WHEN SIZE IS NOT INDICATED ON PLANS, CONDUIT SHALL BE SIZED FOR CONDUCTORS IN ACCORDANCE WITH TABLES 4(A)(B)(C), CHAPTER 9 OF THE N.E.C..
 - THE ROUTING AND METHOD OF INSTALLATION OF ALL CONDUITS SHALL BE CO-ORDINATED SO AS NOT TO INTERFERE WITH OTHER EQUIPMENT INSTALLATIONS AND SHALL MEET WITH THE COMPLETE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
 - THE USE OF INTERMEDIATE METAL CONDUIT (IMC), ELECTRICAL NON-METALLIC TUBING (ENT), ARMORED CABLE (AC), OR MANUFACTURED CABLE ASSEMBLIES SHALL NOT BE INCORPORATED INTO THE WORK. MC CABLE IS ACCEPTABLE WHERE ALLOWED BY NEC. FOR 20A, 120V CIRCUITS.
 - USE ONLY THE TYPES OF RACEWAYS SPECIFIED HERE IN.
 - TYPES OF RACEWAYS SPECIFIED IN THIS SECTION INCLUDE THE FOLLOWING:
 - ELECTRICAL METALLIC TUBING (EMT), MINIMUM TRADE SIZE 1/2".
 - FLEXIBLE METAL CONDUIT, MINIMUM TRADE SIZE 1/2".
 - LIQUID-TIGHT FLEXIBLE METAL CONDUIT (SEALTIGHT) MINIMUM TRADE SIZE 1/2".
 - RIGID METAL CONDUIT, MINIMUM TRADE SIZE 1/2".
 - RIGID NONMETALLIC CONDUIT (PVC), SCHEDULE 40, MINIMUM TRADE SIZE 1/2".
 - FITTINGS
 - FITTINGS FOR EMT SHALL BE STEEL SET SCREW OR COMPRESSION TYPE WITH FACTORY INSTALLED INSULATED THROAT CONNECTORS. DIE CAST OR POT METAL FITTINGS ARE NOT ACCEPTABLE.
 - FITTINGS FOR FLEXIBLE CONDUIT SHALL BE STEEL OR CAST IRON.
 - FITTINGS FOR RIGID CONDUIT SHALL BE STEEL THREADED TYPE.
 - FITTINGS FOR PVC SHALL BE SCHEDULE 40 GLUE-ON TYPE.
- INSTALLATION OF RACEWAYS
 - ALL CONDUITS SHALL BE INSTALLED CONCEALED, EXCEPT IN EQUIPMENT ROOM, CHASES OR AS INDICATED ON THE DRAWINGS. ALL CONDUITS, EXPOSED AND CONCEALED SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND SHALL BE GROUPED TOGETHER AS MUCH AS POSSIBLE, EVEN ABOVE LAY-IN CEILINGS.
 - A SEPARATE GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL RUNS. GROUNDING CONDUCTOR SIZES LARGER THAN #12 AWG WHERE REQUIRED BY THE NEC, SHALL BE SIZED AS INDICATED IN THE NEC. ALL GROUNDING CONDUCTORS SHALL HAVE A GREEN OUTER COVERING, OR GREEN MARKING TAPE OVER THEIR ENTIRE EXPOSED LENGTHS.
 - MECHANICALLY FASTEN TOGETHER METAL CONDUITS, ENCLOSURES, AND RACEWAYS FOR CONDUCTORS TO FORM A CONTINUOUS ELECTRICAL CONDUCTOR. CONNECT TO ELECTRICAL BOXES, FITTINGS AND CABINETS TO PROVIDE ELECTRICAL CONTINUITY AND FIRM MECHANICAL ASSEMBLY.
 - AVOID USE OF DISSIMILAR METALS THROUGH SYSTEM TO ELIMINATE POSSIBILITY OF ELECTROLYSIS.
 - INSTALL EXPANSION FITTINGS IN RACEWAYS EVERY 200' LINEAR RUN OR WHEREVER STRUCTURAL EXPANSION JOINTS ARE CROSSED.
 - PROVIDE NYLON PULL CORD IN ALL EMPTY CONDUITS.
 - CONDUIT INSTALLATION
 - USE E.M.T. FOR ALL INTERIOR CONCEALED AND FOR EXPOSED WORK NOT SUBJECT TO MECHANICAL INJURY.
 - USE P.V.C. FOR ALL UNDER SLAB WORK OR WORK INSTALLED IN CONCRETE. USE RIGID METAL CONDUIT ELBOW AT STUP-UP LOCATIONS.
 - USE FLEXIBLE METAL CONDUIT FROM OUTLET BOXES TO RECESSED LIGHTING FIXTURE AND FINAL 24" OF CONNECTION TO ITEMS SUBJECT TO MOVEMENT OR VIBRATION.
 - USE LIQUID-TIGHT FLEXIBLE CONDUIT FOR FINAL 24" CONNECTION TO ITEMS WHERE SUBJECTED TO ONE OR MORE OF THE FOLLOWING CONDITIONS:
 - MOIST OR HUMID ATMOSPHERE WHERE CONDENSATE CAN BE EXPECTED TO ACCUMULATE.
 - CORROSIVE ATMOSPHERE.
 - SUBJECTED TO WATER SPRAY OR DRIPPING OIL, WATER OR GREASE.
 - FINAL CONNECTION TO ROTATING OR VIBRATING EQUIPMENT.
 - CUT CONDUITS STRAIGHT, PROPERLY REAM AND CUT THREADS FOR HEAVY WALL CONDUIT DEEP AND CLEAN.
 - FIELD BEND CONDUIT WITH BENDERS DESIGNED FOR THE PURPOSE SO AS NOT TO DISTORT NOR VARY INTERNAL DIAMETER.

CONDUCTORS

- CONDUCTORS
 - ALL WIRE SHALL BE COPPER WITH THWN INSULATION.
 - THE USE OF ARMORED , BX, NM, OR ANY MANUFACTURED CABLE ASSEMBLY (EXCEPT MC) SHALL NOT BE INCORPORATED INTO THE WORK.
 - MC CABLE SHALL BE ACCEPTABLE FOR USE ON ALL 20 AMP 120V BREAKER CIRCUITS, ALL CIRCUITS 30 AMPS AND ABOVE AND ALL 208 VOLTS SHALL BE IN RACEWAY.
 - ALL WIRING SHALL BE IN CONDUIT.
 - COLOR CODING OF CONDUCTORS SHALL BE AS FOLLOWS:
 - 120/208V SYSTEMS: PHASE A- BLACK, PHASE B- RED, PHASE C- BLUE, NEUT. - WHITE, GND. - GREEN.
 - AWG #10 AND SMALLER SHALL BE SOLID. AWG #8 AND LARGER SHALL BE STRANDED.
- WIRE CONNECTIONS
 - ALL FEEDER AND SUB-FEEDER WIRING CONNECTIONS SHALL BE MADE WITH COMPRESSION CONNECTORS BY SQUARE D OR ACCEPTABLE EQUIVALENT.
 - ALL BRANCH WIRING CONNECTIONS SHALL BE 3M SCOTCH LOCK CONNECTORS OR ACCEPTABLE EQUIVALENT.
 - WHERE CABLE CONNECTIONS REQUIRE INSULATION, SCOTCH #33, ELECTRICAL TAPE SHALL BE USED FOR WRAPPING.

BOXES AND FITTINGS

- BOXES AND FITTINGS
 - EXTENT OF ELECTRICAL BOX AND ASSOCIATED FITTING WORK IS INDICATED BY DRAWINGS AND SCHEDULES.
- OUTLET BOXES
 - CEILING: 4" SQUARE, 2-1/8" DEEP FOR EXPOSED OR FURRED WORK; 3" DEEP FOR BOXES POURED IN CONCRETE. PROVIDE CONCRETE POUR BOXES OF THE TYPE SPECIALLY DESIGNED FOR THE APPLICATION. PROVIDE PLASTER RINGS WHERE REQUIRED.
 - WALL: 4" SQUARE, 2-1/8" DEEP BOXES. PROVIDE EXTENSION RINGS OR COVERS OF SUFFICIENT DEPTH TO BRING COVERS FLUSH WITH THE FINISHED SURFACE.
 - MASONRY: FOR FLUSH MOUNTED BOXES IN EXPOSED MASONRY OR TILE, PROVIDE COVERS WITH SQUARE CORNERS ON THE RAISED PORTION AND WITH SUFFICIENT DEPTH TO TRIM OUT FLUSH WITH FINISHED SURFACE.
- PULL AND JUNCTION BOXES
 - PROVIDE BOXES WHERE REQUIRED TO FACILITATE THE PULLING OF WIRES OR CABLES. BOXES SHALL BE IN ACCORDANCE WITH ARTICLE 314 OF N.E.C..
- ACCESSORIES
 - PROVIDE CORROSION-RESISTANT KNOCKOUT CLOSURES, CONDUIT LOCKNUTS AND MALLEABLE IRON CONDUIT BUSHINGS, OFFSET CONNECTORS, OF TYPES AND SIZES, TO SUIT RESPECTIVE INSTALLATION REQUIREMENTS AND APPLICATIONS.
- INSTALLATION OF BOXES AND FITTINGS
 - POSITION RECESSED OUTLET BOXES ACCURATELY TO ALLOW FOR SURFACE FINISH THICKNESS.
 - FASTEN ELECTRICAL BOXES FIRMLY AND RIGIDLY TO SUBSTRATES OR STRUCTURAL SURFACES TO WHICH ATTACHED OR SOLIDLY EMBED ELECTRICAL BOXES IN CONCRETE OR MASONRY.
- LOCATIONS OF OUTLETS
 - IN GENERAL THE VARIOUS OUTLETS ARE TO BE LOCATED AT THE FOLLOWING HEIGHTS ABOVE FINISHED FLOOR TO THE CENTER LINE OF BOX, UNLESS NOTED OTHERWISE AT AN INDIVIDUAL OUTLET ON THE DRAWINGS:
 - WALL SWITCHES (VERT. MTD.) 48"
 - RECEPTACLES (VERT. MTD.) 18"
 - PHONE OUTLETS (VERT. MTD.) 18"
 - OUTLET MOUNTING HEIGHTS INDICATED ON THE DRAWINGS TAKE PRECEDENCE. REFER TO DRAWINGS FOR DETAILS OF OTHER EQUIPMENT MOUNTING HEIGHTS. MOUNTING HEIGHTS FOR FLUSH OUTLETS IN BLOCK WALLS MAY BE CHANGED FOR INSTALLATION. CONSULT OWNER'S REPRESENTATIVE IN FIELD PRIOR TO ANY SUCH INSTALLATION.

CONNECTIONS FOR EQUIPMENT

- CONNECTIONS FOR EQUIPMENT
 - GENERAL: FOR EACH ELECTRICAL CONNECTION INDICATED PROVIDE COMPLETE ASSEMBLY OF MATERIALS, INCLUDING BUT NOT NECESSARILY LIMITED TO, PRESSURE CONNECTORS, TERMINALS (LUGS), ELECTRICAL INSULATING TAPE, HEAT-SHRINKABLE INSULATING TUBING, CABLE TIES, SOLDERLESS WIRE-NUTS, AND OTHER ITEMS AND ACCESSORIES AS NEEDED TO COMPLETE SPLICES AND TERMINATIONS OF TYPES INDICATED.

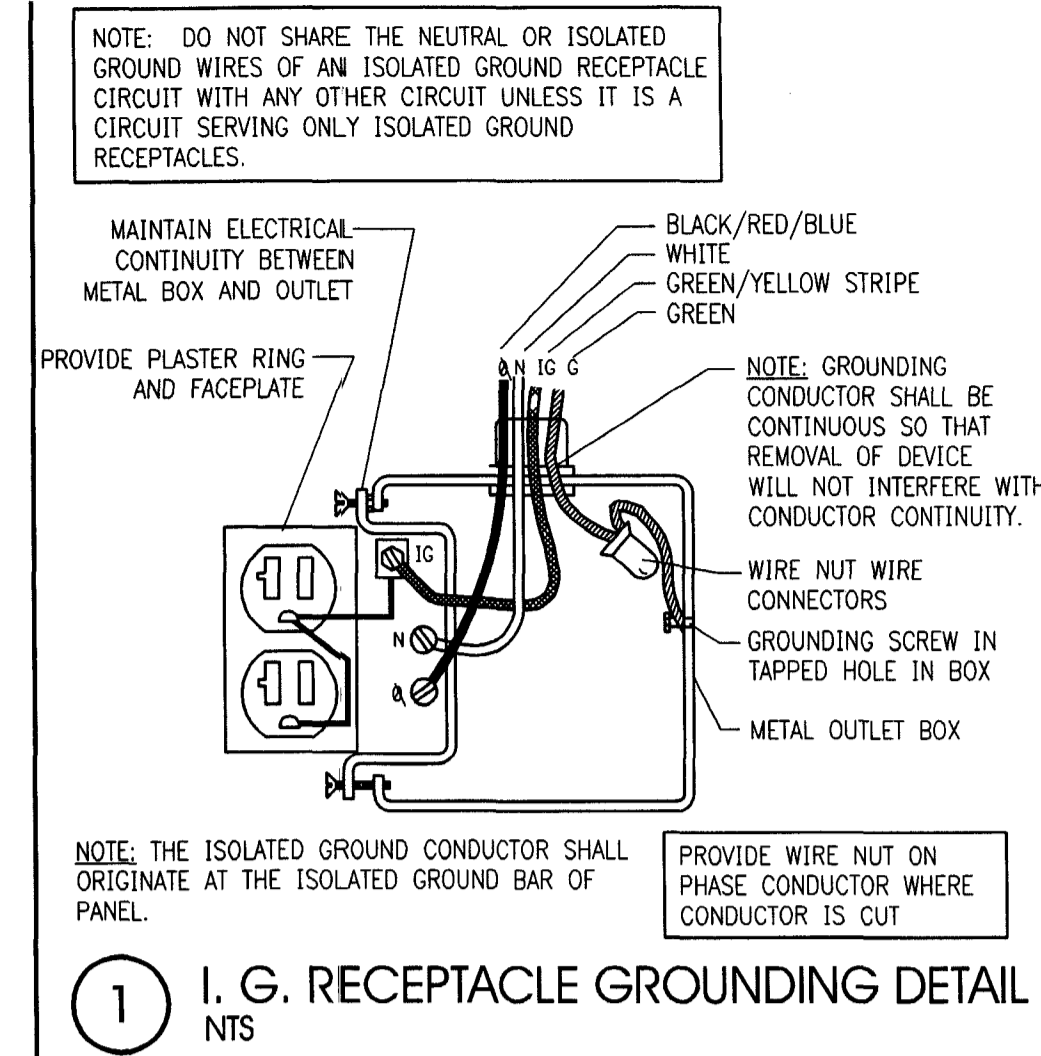
WIRING DEVICES

- WIRING DEVICES
 - THE EXTENT OF WIRING DEVICE WORK IS INDICATED BY THE DRAWINGS AND SCHEDULES.
 - PROVIDE WIRING DEVICES WHICH ARE U.L. LISTED AND LABELED.
- ACCEPTABLE MANUFACTURERS
 - HUBBELL CO.
 - GENERAL ELECTRIC CO.
 - LEVITON MFG. CO.
- FABRICATED WIRING DEVICES
 - SWITCHES SHALL BE 20 AMP, 120/277 VOLT RATED, HUBBELL #1221 - IVORY OR BROWN. (MATCH EXISTING)
 - RECEPTACLES SHALL BE 20 AMP 125 VOLT RATED, HUBBELL #5362 - IVORY OR BROWN. (MATCH EXISTING) FOR OTHER APPLICATIONS REFER TO THE DRAWINGS.
 - PROVIDE SMOOTH FINISH PLATES FOR ALL DEVICES WITH APPROPRIATE MOUNTING ARRANGEMENTS FOR GANGED DEVICES. FOR TELEPHONE AND DATA OUTLETS PROVIDE BUSHED HOLE COVER PLATES. PLATES SHALL BE IVORY, BROWN OR GRAY STAINLESS STEEL. (MATCH EXISTING)
 - IVORY PLATES FOR ALL AREAS, EXCEPT BROWN PLATES ON WOOD OR DARK SURFACES. (MATCH EXISTING)
 - IVORY DEVICES WHERE 302 STAINLESS STEEL OR IVORY PLATES ARE USED.
 - BROWN DEVICES WHERE BROWN PLATES ARE USED.

LIGHTING FIXTURES

- LIGHTING FIXTURES
 - HANDLE LIGHTING FIXTURES CAREFULLY TO PREVENT DAMAGE, BREAKING AND SCORING. DO NOT INSTALL DAMAGED FIXTURES OR COMPONENTS, REPLACE WITH NEW.
 - SHIP FIXTURES FACTORY ASSEMBLED, WITH PARTS REQUIRED FOR A COMPLETE INSTALLATION.
 - FLUORESCENT BALLAST SHALL BE CLASS P, LOW-ENERGY RAPID START SOUND RATED A.
 - PROVIDE FLUORESCENT LAMPS OF TYPES INDICATED.
 - PROVIDE FIXTURES AND/OR FIXTURE OUTLET BOXES WITH HANGERS TO PROPERLY SUPPORT FIXTURE WEIGHT.
 - INSTALL FLUSH MOUNTED FIXTURES TO ELIMINATE LIGHT LEAKAGE BETWEEN FRAME AND FINISHED SURFACE.
 - AT DATE OF SUBSTANTIAL COMPLETION REPLACE LAMPS IN ALL FIXTURES WHICH ARE OBSERVED TO BE INOPERATIVE OR NOTICEABLY DIMMED AFTER CONTRACTORS USE AS JUDGED BY THE OWNER'S REPRESENTATIVE

LOAD SUMMARY				
PANEL		DECREASE (AMPS)	INCREASE (AMPS)	TOTAL LOAD (AMPS)
P - ORIGINAL LOAD	200			85.0
P - REMOVED LOAD		1.3		
P - ADDED LOAD			8.4	
P - NEW LOAD				92.1
L - ORIGINAL LOAD	100			82.0
L - REMOVED LOAD		1.8		
L - ADDED LOAD			1.2	
L - NEW LOAD				81.4



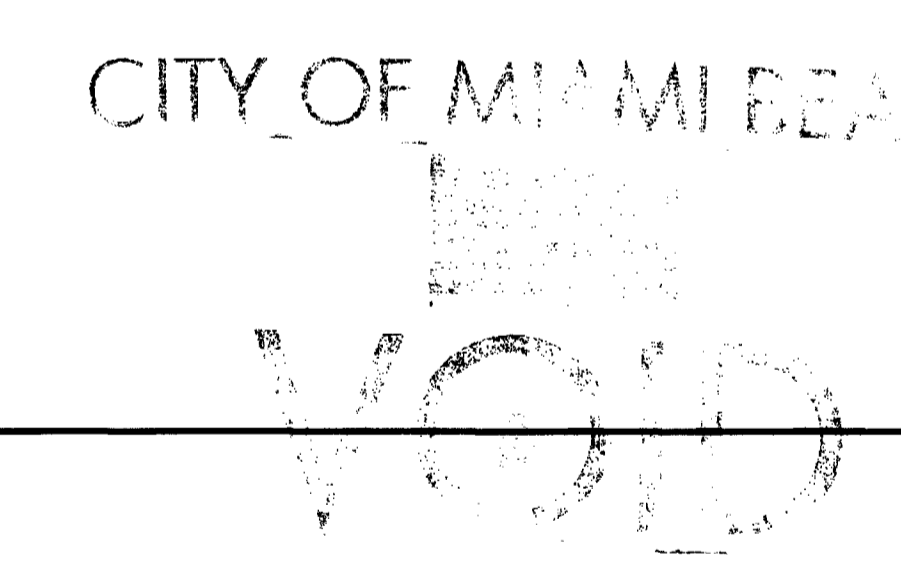
1 I, G. RECEPTACLE GROUNDING DETAIL NTS

LEGEND

- RECESSED FLUORESCENT LIGHTING FIXTURE
- RECESSED LIGHTING FIXTURE
- EXIT LIGHT (HATCHING DENOTES FACE)
- WALL MOUNTED LIGHTING FIXTURE. SEE SCHEDULE FOR MOUNTING HEIGHT.
- SURFACE OR PENDANT MOUNTED FLUORESCENT LIGHTING FIXTURE
- PENDANT FIXTURE
- SURFACE MOUNTED OR RECESSED EMERGENCY LIGHTING FIXTURE
- SINGLE POLE TOGGLE SWITCH
- TWO POLE TOGGLE SWITCH
- THREE-WAY TOGGLE SWITCH
- DUPLEX RECEPTACLE WITH ISOLATED GROUND
- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE: MOUNTED HORIZONTALLY U.N.O
- QUADRUPLEX RECEPTACLE
- QUADRUPLEX RECEPTACLE WITH ISOLATED GROUND
- SPECIAL PURPOSE RECEPTACLE
- SINGLE RECEPTACLE
- VOICE/DATA JUNCTION BOX
- JUNCTION BOX
- MOTOR, FAN, PUMP OR AIR CONDITIONING UNIT
- LIGHTING AND/OR POWER PANELBOARD
- DISCONNECT SWITCH, RATING AS NOTED.
- NON-FUSED DISCONNECT SWITCH, RATING AS NOTED.
- HOMERUN TO PANELBOARD
- CEILING MOUNTED SMOKE DETECTOR
- CEILING MOUNTED SPEAKER

ABBREVIATIONS

- WP WEATHERPROOF
- AFF ABOVE FINISHED FLOOR
- UNO UNLESS NOTED OTHERWISE
- GF1 GROUND FAULT INTERRUPT
- O.C. ON CENTER
- ETR EXISTING TO REMAIN
- PMC PROJECT MANAGEMENT COMPANY



CONTINUITY OF SERVICE

CONTINUED OPERATION OF EXISTING ELECTRICAL SHALL BE MAINTAINED DURING RENOVATION CONSTRUCTION TO THE MAXIMUM EXTENT POSSIBLE. ANY INTERRUPTION TO NORMAL BANKING OPERATIONS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE (PMC) AND SHALL OCCUR ONLY WHEN APPROVED AND SCHEDULED WITH THE OWNER.

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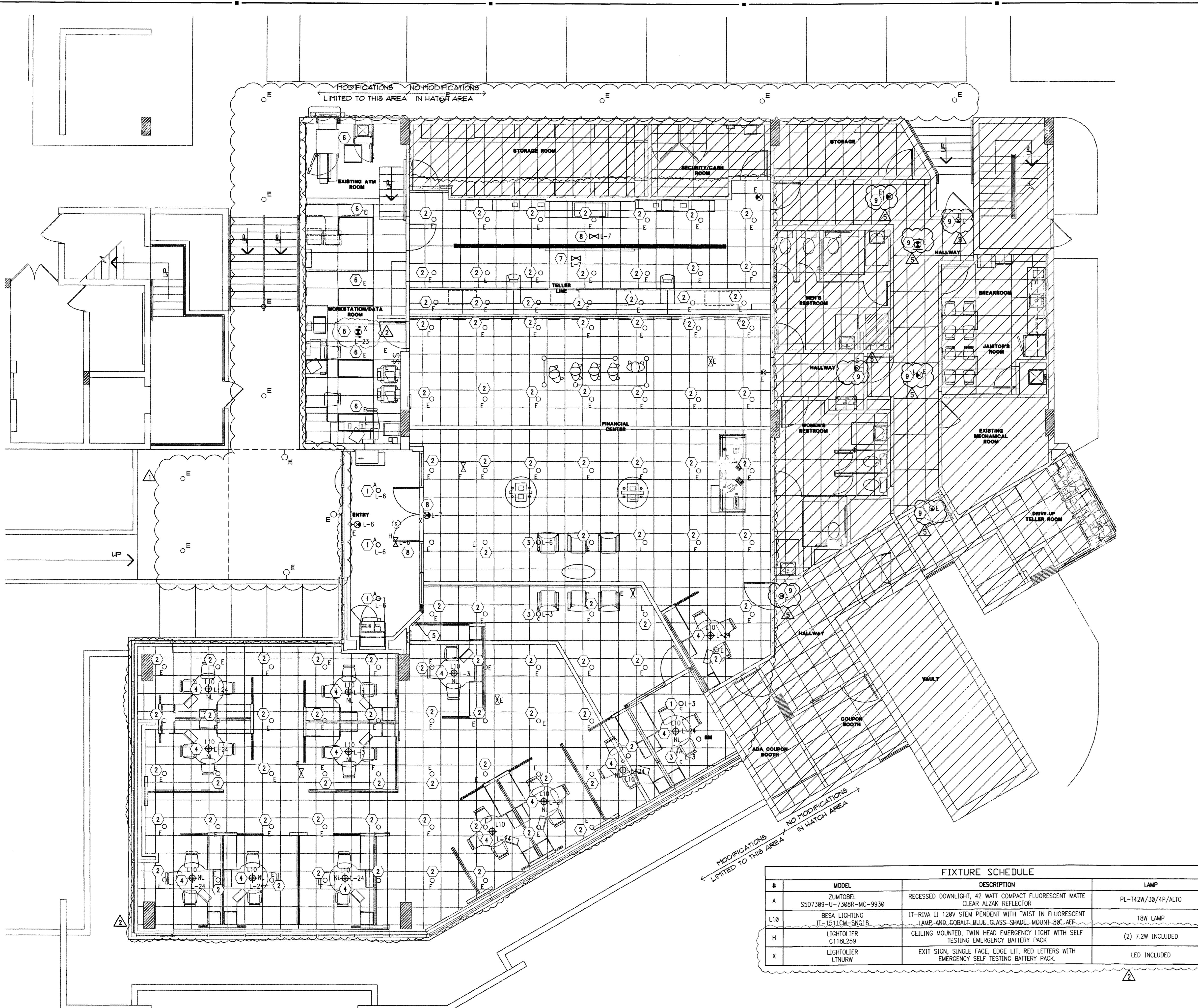
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E0.0

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#	MODEL	DESCRIPTION	LAMP
A	ZUMTOBEL S507309-U-7308R-MC-9930	RECESSED DOWNLIGHT, 42 WATT COMPACT FLUORESCENT MATTE CLEAR ALZAK REFLECTOR	PL-142W/30/4P/ALTO
L10	BESA LIGHTING IT-1511CM-SNG18	IT-RIVA II 120V STEW PENDENT WITH TWIST IN FLUORESCENT LAMP AND GOBALL BLUE GLASS SHADE MOUNT BB-REF	18W LAMP
H	LIGHTOLIER C118L259	CEILING MOUNTED, TWIN HEAD EMERGENCY LIGHT WITH SELF TESTING EMERGENCY BATTERY PACK	(2) 7.2W INCLUDED
X	LIGHTOLIER LTNRW	EXIT SIGN, SINGLE FACE, EDGE LIT, RED LETTERS WITH EMERGENCY SELF TESTING BATTERY PACK.	LED INCLUDED

LIGHTING - DEMO GENERAL NOTES

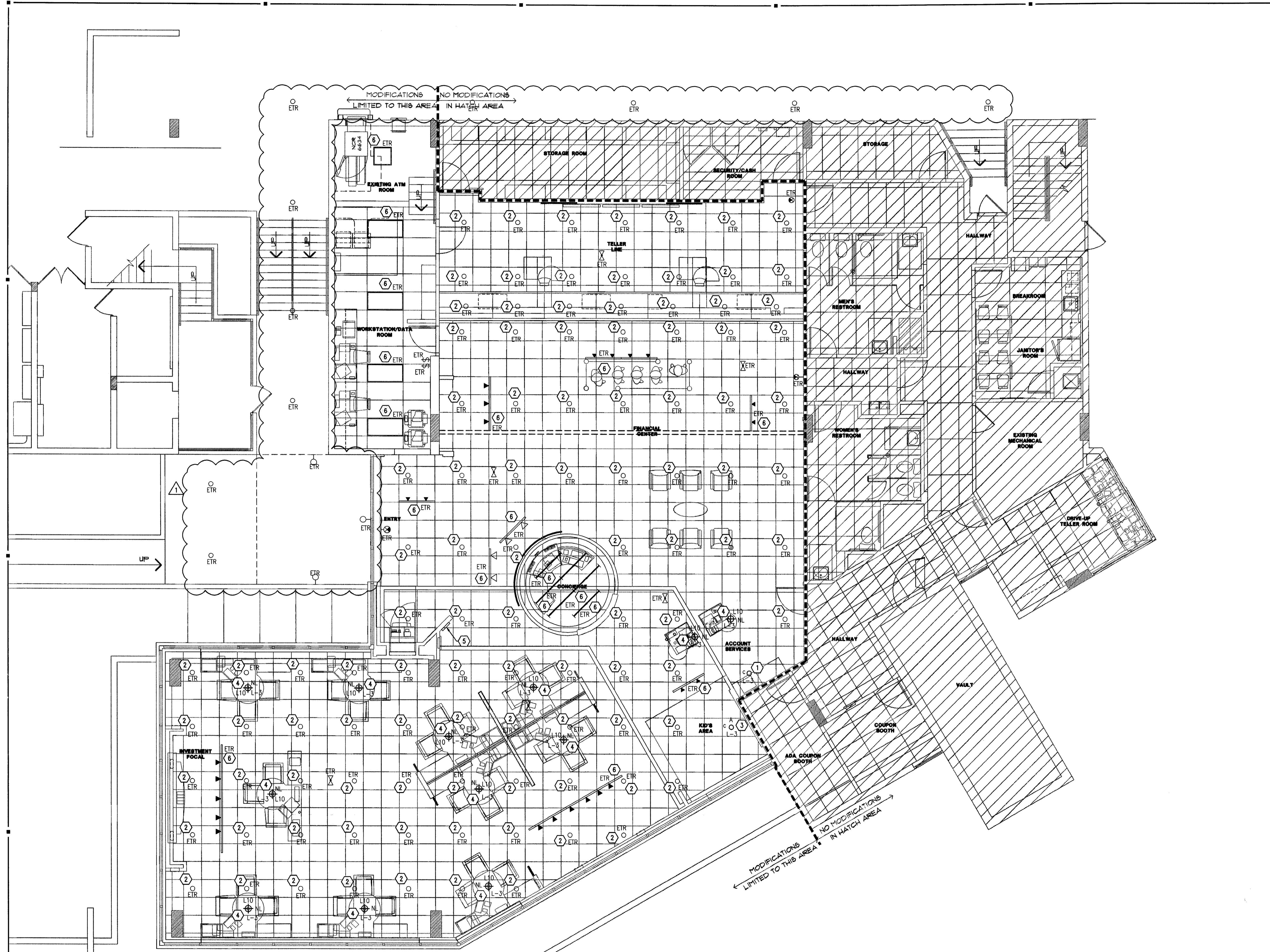
- REFER TO ARCHITECTURAL DEMOLITION PLANS FOR EXISTING LIGHTING TO BE REMOVED OR RELOCATED.
- ALL DEVICES SHOWN ON PLAN ARE EXISTING UNLESS OTHERWISE NOTED. REFER TO SYMBOL LEGEND FOR DEVICE DESCRIPTION.
- EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL GOVERN.
- THE DEMOLITION PLAN IS NOT INCLUSIVE OF ALL ELECTRICAL DEVICES WITHIN THE PROJECT AREA. IT IS INTENDED TO PROVIDE THE CONTRACTOR WITH A GENERAL KNOWLEDGE OF THE EXISTING CONDITIONS WITHIN THE PROJECT AREA. ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON THIS PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED DEMOLITION WHETHER SHOWN ON THE PLANS OR NOT.
- ALL CONDUITS SERVING OTHER SPACES THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION, SO AS NOT TO CAUSE ANY DISRUPTION TO THESE OTHER SPACES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL CONDUITS, NEW OR EXISTING, WITHIN THE PROJECT AREA ARE PROPERLY SUPPORTED AND PROVIDED W/ BONDING BUSHINGS IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
- ALL ITEMS REMOVED UNDER THIS PROJECT SHALL BE DISPOSED OF OR TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.
- THIS CONTRACTOR SHALL PROVIDE ELECTRICAL FOR PHASING WORK AS REQUIRED OR DIRECTED BY THE ARCHITECT, REFER TO ARCHITECTURAL PHASING PLAN. TEMPORARY ELECTRICAL SERVICES (POWER, LIGHTING, FIRE ALARM, ETC.) SHALL BE PROVIDED WHEN NEW WORK AFFECTS SERVICES NEEDING TO REMAIN ACTIVE.
- THE CONTRACTOR SHALL INVESTIGATE THE PROJECT AREA PRIOR TO BID TO DETERMINE ALL REQUIRED DEMOLITION.
- NO WORK BEING DONE ON EXTERIOR BUILDING DEVICES.

LIGHTING - NEW GENERAL NOTES

- ALL FIXTURES SHALL BE CIRCUITED TO EXISTING CIRCUITS UNLESS OTHERWISE NOTED. NUMBERS INDICATE CIRCUITING. CONTRACTOR SHALL VERIFY ACTUAL CIRCUITING IN THE FIELD.
- ALL WIRING SHALL BE IN CONDUIT. CONDUIT SIZE IS 1/2" MINIMUM UNLESS OTHERWISE NOTED. MC CABLE (MIN. 3/8") IS ALLOWED. HOWEVER, ALL HOMERUNS SHALL BE IN CONDUIT. FMT IS NOT PERMITTED. PVC IS ACCEPTABLE WHERE ALLOWED BY CODE. CONTRACTOR MAY USE EMT OR GRS AS ALLOWED BY CODE.
- WIRE SIZE SHALL BE MINIMUM #12 AWG, THWN SOLID COPPER UNLESS OTHERWISE NOTED. PROVIDE GROUND WIRE IN ALL RACEWAYS AND ANYWHERE REQUIRED BY CODE. INCREASE WIRE SIZE TO COMPENSATE FOR VOLTAGE DROP WHERE TOTAL LENGTH OF ANY BRANCH EXCEEDS 100 FEET.
- WIRE SIZE SHALL NOT BE LESS THAN CORRESPONDING CIRCUIT BREAKER RATING AS REQUIRED BY CODE.
- MAXIMUM NUMBER OF UNGROUNDED CONDUCTORS IN ANY CONDUIT SHALL BE THREE. ADDITIONAL WIRES ARE ACCEPTABLE IF WIRE SIZE IS INCREASED TO ALLOW FOR DERATING PER CODE. PROVIDE ADDITIONAL WIRES FOR SWITCHING AS REQUIRED.
- CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
- TWO OR THREE LIGHTING CIRCUITS MAY SHARE A COMMON NEUTRAL.
- VERIFY MOUNTING AND LOCATION OF ALL FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION. REFER TO ARCHITECTURAL DRAWING A2.0 FOR DIMENSIONED LOCATIONS OF PENDANT FIXTURES.
- ALL EMERGENCY LIGHTS AND EXIT SIGN BATTERY UNITS SHALL BE PROVIDED WITH UNSWITCHED HOT AND CONNECTED TO LOCAL LIGHTING CIRCUIT. PROVIDE ALL NIGHT LIGHTS WITH AN UNSWITCHED HOT.
- CONTRACTOR SHALL CLEAN AND RE-LAMP ALL FIXTURES THAT ARE EXISTING TO REMAIN.

LIGHTING - NEW PLAN NOTES

- EXISTING FIXTURE BEING REUSED AND RELOCATED AS SHOWN. CONNECT TO CIRCUITING AND SWITCHING AS INDICATED. CONTRACTOR IS TO FIELD VERIFY EXISTING REFLECTOR IN FIXTURE. IF FOUND TO BE THE 45° CUTOFF REFLECTOR, CONTRACTOR IS TO REPLACE IT WITH THE STANDARD DOWNLIGHT REFLECTOR #7308R FROM ZUMTOBEL. CONTRACTOR IS TO INFORM PMC OF THIS CHANGE AND RECEIVE CONSENT PRIOR TO INSTALLATION. CLEAN AND RE-LAMP FIXTURE WITH TRIPLE TUBE 42W COMPACT FLUORESCENT LAMP.
- EXISTING FIXTURE BEING REUSED. EXISTING CIRCUITING AND SWITCHING TO REMAIN. CONTRACTOR IS TO FIELD VERIFY EXISTING REFLECTOR IN FIXTURE. IF FOUND TO BE THE 45° CUTOFF REFLECTOR, CONTRACTOR IS TO REPLACE IT WITH THE STANDARD DOWNLIGHT REFLECTOR #7308R FROM ZUMTOBEL. CONTRACTOR IS TO INFORM PMC OF THIS CHANGE AND RECEIVE CONSENT PRIOR TO INSTALLATION. CLEAN AND RE-LAMP FIXTURE WITH TRIPLE TUBE 42W COMPACT FLUORESCENT LAMP.
- PROVIDE NEW RECESSED DOWNLIGHT PER FIXTURE SCHEDULE. CONNECT TO CIRCUITING AND SWITCHING AS INDICATED.
- PROVIDE NEW PENDANT FIXTURE AS SHOWN. REFER TO FIXTURE SCHEDULE FOR MOUNTING HEIGHT. COORDINATE WITH ARCHITECTURAL PLANS. CONNECT TO CIRCUITING AS INDICATED. PENDANTS SHALL OPERATE AS NIGHT LIGHTING.
- EXISTING SWITCHBANK TO REMAIN.
- EXISTING FIXTURE BEING RE-USED. EXISTING CIRCUITING AND SWITCHING TO REMAIN. CONTRACTOR IS TO CLEAN AND RE-LAMP ALL FIXTURES.
- EXISTING EMERGENCY FIXTURE BEING REUSED AND/OR RELOCATED AS SHOWN. CONNECT TO CIRCUITING AS INDICATED. PROVIDE UNSWITCHED HOT TO BATTERY PACK. CLEAN AND RE-LAMP FIXTURE IF NECESSARY.
- PROVIDE NEW EMERGENCY FIXTURE AS SHOWN. CONNECT TO CIRCUITING AS INDICATED. PROVIDE UNSWITCHED HOT TO BATTERY PACK.
- EXISTING EXIT LIGHT LOCATION. GO TO FIELD VERIFY IF EXISTING LIGHT EXISTS. IF LIGHT DOES NOT EXIST, INSTALL AS LOCATED OR AS DIRECTED BY FIRE MARSHAL.



FIXTURE SCHEDULE			
#	MODEL	DESCRIPTION	LAMP
1	ZUMTOBEL SSD7309-U-7308R-MC-9930	RECESSED DOWNLIGHT, 42 WATT COMPACT FLUORESCENT MATTE CLEAR ALZAK REFLECTOR	BL-F42W/30/45/AL10
L10	BESA LIGHTING IT-1511CM-SNG18	IT-RIVA II 120V STEM PENDENT WITH TWIST IN FLUORESCENT LAMP AND COBALT BLUE GLASS SHADE. MOUNT 80° AFF	18W LAMP

ELECTRICAL PLAN - LIGHTING
3/16" = 1'-0"
NORTH

LIGHTING - DEMO GENERAL NOTES

- REFER TO ARCHITECTURAL DEMOLITION PLANS FOR EXISTING LIGHTING TO BE REMOVED OR RELOCATED.
- ALL DEVICES SHOWN ON PLAN ARE EXISTING UNLESS OTHERWISE NOTED. REFER TO SYMBOL LEGEND FOR DEVICE DESCRIPTION.
- EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL GOVERN.
- THE DEMOLITION PLAN IS NOT INCLUSIVE OF ALL ELECTRICAL DEVICES WITHIN THE PROJECT AREA. IT IS INTENDED TO PROVIDE THE CONTRACTOR WITH A GENERAL KNOWLEDGE OF THE EXISTING CONDITIONS WITHIN THE PROJECT AREA. ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON THIS PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED DEMOLITION WHETHER SHOWN ON THE PLANS OR NOT.
- ALL CONDUITS SERVING OTHER SPACES THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION, SO AS NOT TO CAUSE ANY DISRUPTION TO THESE OTHER SPACES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL CONDUITS, NEW OR EXISTING, WITHIN THE PROJECT AREA ARE PROPERLY SUPPORTED AND PROVIDED W/ BONDING BUSHINGS IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
- ALL ITEMS REMOVED UNDER THIS PROJECT SHALL BE DISPOSED OF OR TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.
- THIS CONTRACTOR SHALL PROVIDE ELECTRICAL FOR PHASING WORK AS REQUIRED OR DIRECTED BY THE ARCHITECT, REFER TO ARCHITECTURAL PHASING PLAN. TEMPORARY ELECTRICAL SERVICES (POWER, LIGHTING, FIRE ALARM, ETC.) SHALL BE PROVIDED WHEN NEW WORK AFFECTS SERVICES NEEDING TO REMAIN ACTIVE.
- THE CONTRACTOR SHALL INVESTIGATE THE PROJECT AREA PRIOR TO BID TO DETERMINE ALL REQUIRED DEMOLITION.
- NO WORK BEING DONE ON EXTERIOR BUILDING DEVICES.

LIGHTING - NEW GENERAL NOTES

- ALL FIXTURES SHALL BE CIRCUITED TO EXISTING CIRCUITS UNLESS OTHERWISE NOTED. NUMBERS INDICATE CIRCUITING. CONTRACTOR SHALL VERIFY ACTUAL CIRCUITING IN THE FIELD.
- ALL WIRING SHALL BE IN CONDUIT. CONDUIT SIZE IS 1/2" MINIMUM UNLESS OTHERWISE NOTED. MC CABLE (MIN. 3/8") IS ALLOWED, HOWEVER, ALL HOMERUNS SHALL BE IN CONDUIT. EXT IS NOT PERMITTED. PVC IS ACCEPTABLE WHERE ALLOWED BY CODE. CONTRACTOR MAY USE EMT OR GRS AS ALLOWED BY CODE.
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- EXISTING SWITCHBANK TO REMAIN.
- EXISTING FIXTURE BEING RE-USED. EXISTING CIRCUITING AND SWITCHING TO REMAIN. CONTRACTOR IS TO CLEAN AND RE-LAMP ALL FIXTURES.

Electrical Plans Examiner
Lic. # PX 2811

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SEAL:
WALCOLM RUSSO
JUN 12 2009

CONSULTANT:

REVISIONS:
NO. DATE REMARKS
1 06-10-09 PERMIT COMMENTS

CHASEO
INTERIOR REBRANDING CONVERSION
MIAMI BEACH - ALTON ROAD
WAMU BLDG D/F 1924 CHASE STORE D# 1742
1801 ALTON ROAD
MIAMI, FL 33139

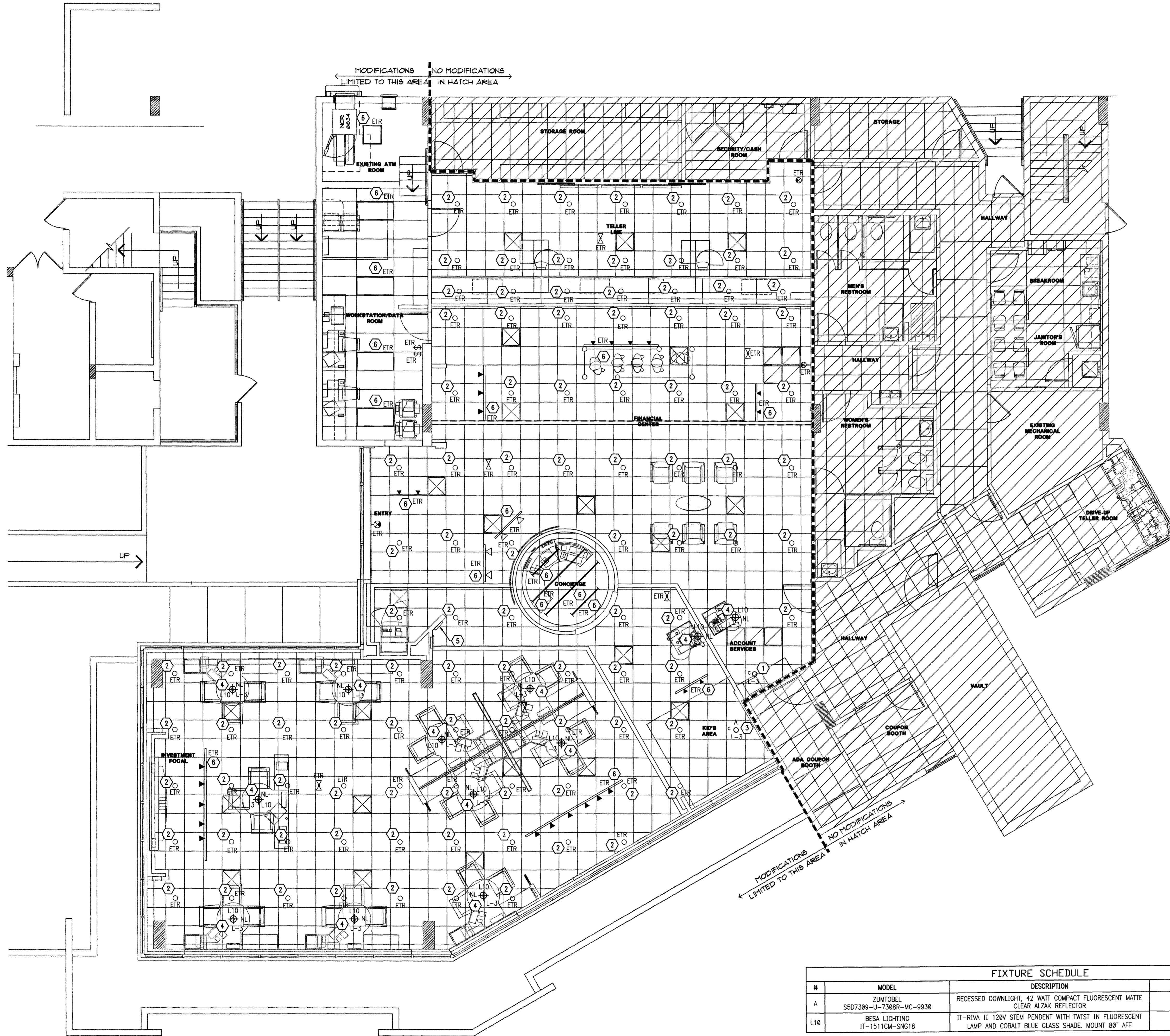
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PROJECT NO: 2009.0109
DATE: 03/11/09

**ELECTRICAL PLAN-
LIGHTING**

E1.0

DRAWN BY: SN
CHECKED BY: MGR



FIXTURE SCHEDULE			
#	MODEL	DESCRIPTION	LAMP
A	ZUMTOBEL SS07309-U-7308R-MC-9930	RECESSED DOWNLIGHT, 42 WATT COMPACT FLUORESCENT MATTE CLEAR ALZAK REFLECTOR	PL-142W/30/4P/ALTO
L10	BESA LIGHTING IT-1511CM-SNG18	IT-RIVA II 120V STEM PENDENT WITH TWIST IN FLUORESCENT LAMP AND COBALT BLUE GLASS SHADE. MOUNT 80° AFF	18W LAMP

ELECTRICAL PLAN - LIGHTING
3/16" = 1'-0"



LIGHTING - DEMO GENERAL NOTES

- REFER TO ARCHITECTURAL DEMOLITION PLANS FOR EXISTING LIGHTING TO BE REMOVED OR RELOCATED.
- ALL DEVICES SHOWN ON PLAN ARE EXISTING UNLESS OTHERWISE NOTED. REFER TO SYMBOL LEGEND FOR DEVICE DESCRIPTION.
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- ALL FIXTURES SHALL BE CIRCUITED TO EXISTING CIRCUITS UNLESS OTHERWISE NOTED. NUMBERS INDICATE CIRCUITING. CONTRACTOR SHALL VERIFY ACTUAL CIRCUITING IN THE FIELD.
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- WIRE SIZE SHALL BE MINIMUM #12 AWG, THWN SOLID COPPER UNLESS OTHERWISE NOTED. PROVIDE GROUND WIRE IN ALL RACEWAYS AND ANYWHERE REQUIRED BY CODE. INCREASE WIRE SIZE TO COMPENSATE FOR VOLTAGE DROP WHERE TOTAL LENGTH OF ANY BRANCH EXCEEDS 100 FEET.
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- CONTRACTOR SHALL CLEAN AND RE-LAMP ALL FIXTURES THAT ARE EXISTING TO REMAIN.

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SEAL:

MAXIMILIAN RUSSO
MAY 04 2009

CONSULTANT:

REVISIONS:
NO. DATE REMARKS

CHASE
INTERIOR REBRANDING CONVERSION
MIAMI BEACH - ALTON ROAD
MIAMI BLDG DE 1024 CHASE STORE ID# 1742
1801 ALTON ROAD
MIAMI, FL 33139

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PROJECT NO: 2009.0109
DATE: 04/30/2009

ELECTRICAL PLAN - LIGHTING

E1.0

DRAWN BY: SV
CHECKED BY: MGR

POWER - DEMO GENERAL NOTES

- REFER TO ARCHITECTURAL DEMOLITION PLANS FOR EXISTING ITEMS TO BE REMOVED OR RELOCATED. REMOVE ASSOCIATED ELECTRICAL.
- REMOVE ALL DEVICES, JUNCTION BOXES (IF POSSIBLE), CONDUIT (IF NECESSARY) AND WIRING BACK TO NEAREST JUNCTION BOX THAT IS TO REMAIN IN ALL AREAS BEING DEMOLISHED OR RENOVATED UNLESS OTHERWISE NOTED. FLOOR BOXES AND CONDUIT IN FLOOR SLAB WILL NOT BE REMOVED. TURN OVER ALL REMOVED MATERIALS TO OWNER AT OWNER'S DISCRETION.
- ALL DEVICES SHOWN ON PLAN ARE EXISTING UNLESS OTHERWISE NOTED. REFER TO SYMBOL LEGEND FOR DEVICE DESCRIPTION.
- EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL GOVERN.
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- THE CONTRACTOR SHALL INVESTIGATE THE PROJECT AREA PRIOR TO BID TO DETERMINE ALL REQUIRED DEMOLITION.
- NO WORK BEING DONE ON EXTERIOR BUILDING DEVICES.

POWER - DEMO PLAN NOTES

- RELOCATE POWER ON THIS WALL AS NECESSARY TO AVOID CONFLICTS DUE TO WALL RENOVATION. REUTILIZE EXISTING OUTLET AND CIRCUIT.
- DEVICE TO BE REMOVED. REMOVE WIRING BACK TO NEAREST JUNCTION BOX THAT IS TO REMAIN. PROVIDE BLANK COVER AND PATCH TO MATCH SURROUNDING WALL. COORDINATE WITH ARCHITECTURAL.

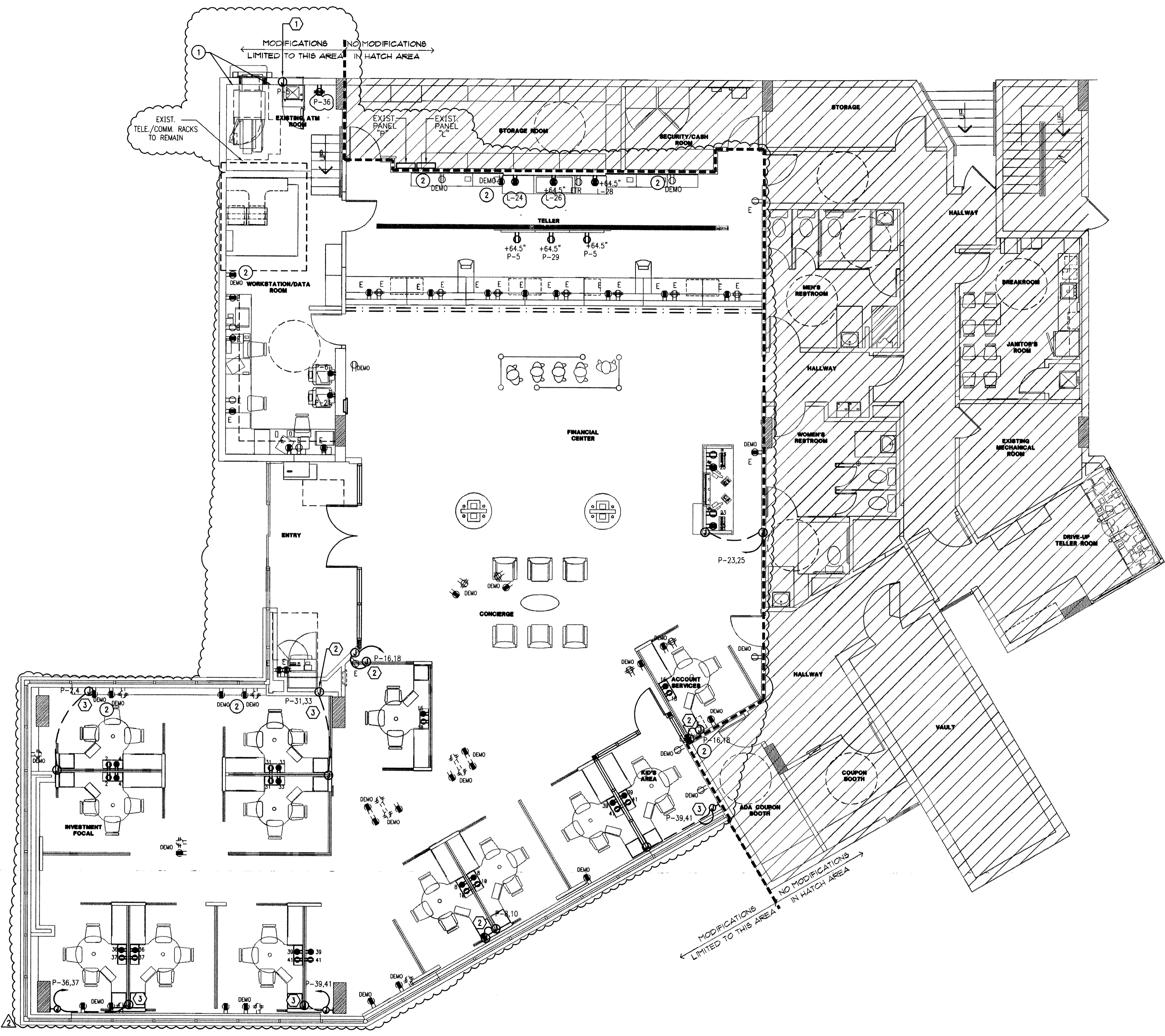
POWER - NEW GENERAL NOTES

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- CONTRACTOR SHALL INTERCEPT AND EXTEND CONDUIT AND WIRING FOR ALL CIRCUITS BEING RE-USED TO NEW DEVICE LOCATIONS AS NECESSARY.
- ALL WIRING SHALL BE IN CONDUIT. CONDUIT SIZE IS 1/2" MINIMUM UNLESS OTHERWISE NOTED. MC CABLE (MIN. 3/8") IS ALLOWED, HOWEVER, ALL HOMERUNS SHALL BE IN CONDUIT. ENT IS NOT PERMITTED. PVC IS ACCEPTABLE WHERE ALLOWED BY CODE. CONTRACTOR MAY USE EMT OR GRS AS ALLOWED BY CODE.
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- CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
- EACH RECEPTACLE CIRCUIT DOES NOT REQUIRE A DEDICATED NEUTRAL. SHARED NEUTRALS ARE ALLOWED EXCEPT FOR ISOLATED GROUND CIRCUITS.
- VERIFY MOUNTING AND LOCATION OF ALL OUTLETS WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO DETAIL 1 SHEET E0.0 FOR ISOLATED GROUND RECEPTACLE DETAILS.

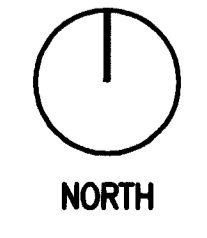
POWER - NEW PLAN NOTES

- JUNCTION BOX FOR BLUE GLOWING WALL SURROUNDING ATM. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT VENDOR. COORDINATE WITH ARCHITECTURAL.
- JUNCTION BOX FOR CONNECTION OF POWER TO PRE-WIRED WORKSTATION. COORDINATE ACTUAL ELECTRICAL CONNECTION WITH FURNITURE INSTALLATION REQUIREMENTS.
- JUNCTION BOX FOR CONNECTION OF POWER TO PRE-WIRED WORKSTATION. COORDINATE ACTUAL ELECTRICAL CONNECTION WITH FURNITURE INSTALLATION REQUIREMENTS. SAW AND CUT AND PATCH AS NECESSARY.

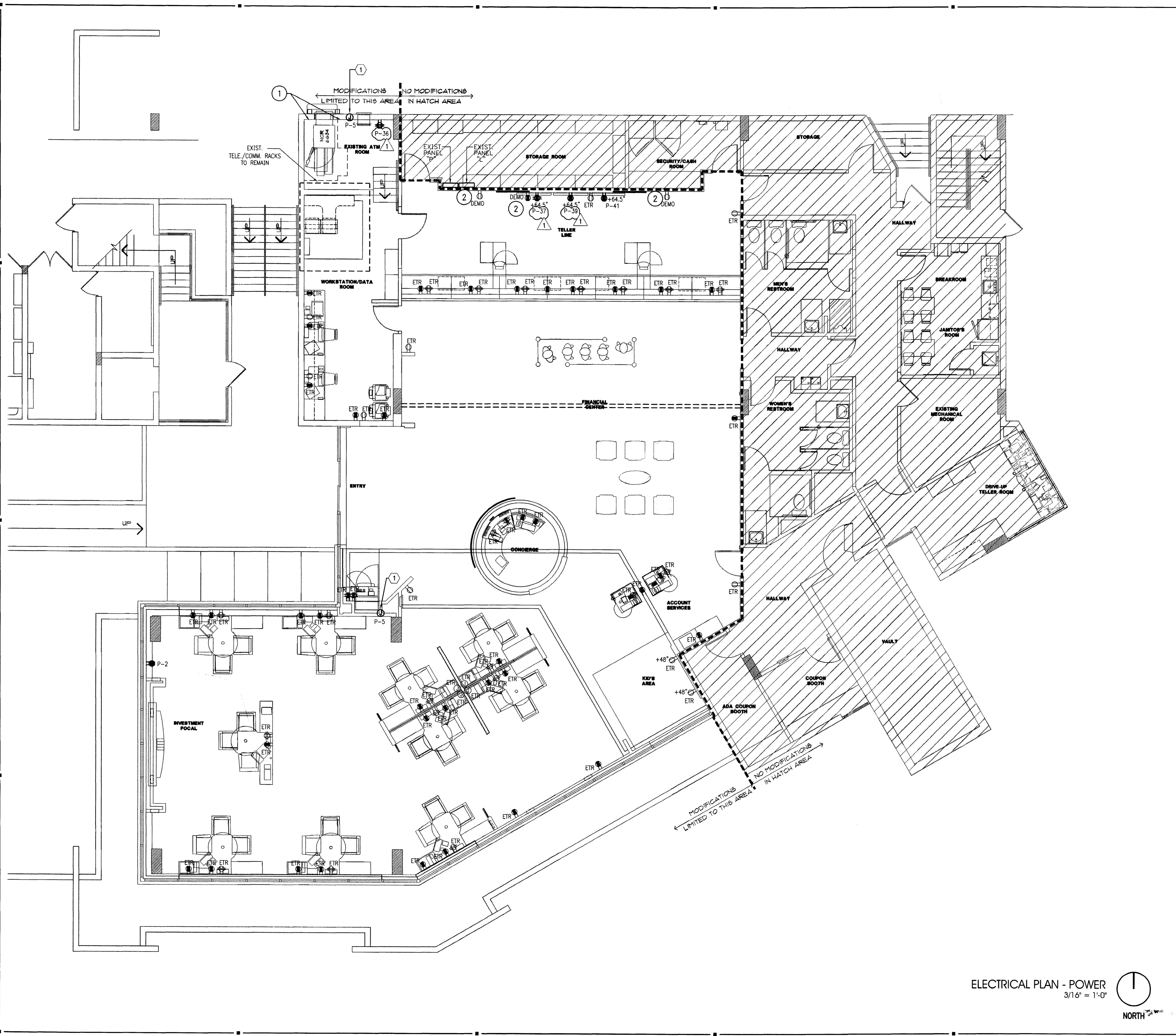
Electrical Plan: Examiner
LIC # PY 2811



ELECTRICAL PLAN - POWER
3/16" = 1'-0"



2:00pm/4/30/2009/2009.0109/0109E2.0.dwg, Issue4, 8/17/2009 7:56:48 AM, B:\P09_05_Corridor_24x36.dwg, AutoCAD 2009 (P) 24x36 (P) 1:1



POWER - DEMO GENERAL NOTES

- REFER TO ARCHITECTURAL DEMOLITION PLANS FOR EXISTING ITEMS TO BE REMOVED OR RELOCATED. REMOVE ASSOCIATED ELECTRICAL.
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- THE CONTRACTOR SHALL INVESTIGATE THE PROJECT AREA PRIOR TO BID TO DETERMINE ALL REQUIRED DEMOLITION.
- NO WORK BEING DONE ON EXTERIOR BUILDING DEVICES.

POWER - DEMO PLAN NOTES

- RELOCATE POWER ON THIS WALL AS NECESSARY TO AVOID CONFLICTS DUE TO WALL RENOVATION. REUTILIZE EXISTING OUTLET AND CIRCUIT.
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POWER - NEW GENERAL NOTES

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- CONTRACTOR SHALL INTERCEPT AND EXTEND CONDUIT AND WIRING FOR ALL CIRCUITS BEING RE-USED TO NEW DEVICE LOCATIONS AS NECESSARY.
- ALL WIRING SHALL BE IN CONDUIT. CONDUIT SIZE IS 1/2" MINIMUM UNLESS OTHERWISE NOTED. MC CABLE (MIN. 3/8") IS ALLOWED, HOWEVER, ALL HOMERUNS SHALL BE IN CONDUIT. ENT IS NOT PERMITTED. PVC IS ACCEPTABLE WHERE ALLOWED BY CODE. CONTRACTOR MAY USE EMT OR ORS AS ALLOWED BY CODE.
- WIRE SIZE SHALL BE MINIMUM #12 AWG, THIN SOLID COPPER UNLESS OTHERWISE NOTED. PROVIDE GROUND WIRE IN ALL RACEWAYS AND ANYWHERE REQUIRED BY CODE. INCREASE WIRE SIZE TO COMPENSATE FOR VOLTAGE DROP WHERE TOTAL LENGTH OF ANY BRANCH EXCEEDS 100 FEET.
- WIRE SIZE SHALL NOT BE LESS THAN CORRESPONDING CIRCUIT BREAKER RATING AS REQUIRED BY CODE.
- MAXIMUM NUMBER OF UNGROUNDED CONDUCTORS IN ANY CONDUIT SHALL BE THREE. ADDITIONAL WIRES ARE ACCEPTABLE IF WIRE SIZE IS INCREASED TO ALLOW FOR DERATING PER CODE. PROVIDE ADDITIONAL WIRES FOR SWITCHING AS REQUIRED.
- CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
- EACH RECEPTACLE CIRCUIT DOES NOT REQUIRE A DEDICATED NEUTRAL. SHARED NEUTRALS ARE ALLOWED EXCEPT FOR ISOLATED GROUND CIRCUITS.
- VERIFY MOUNTING AND LOCATION OF ALL OUTLETS WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO DETAIL 1 SHEET E0.0 FOR ISOLATED GROUND RECEPTACLE DETAILS.

POWER - NEW PLAN NOTES

- JUNCTION BOX FOR BLUE GLOWING WALL SURROUNDING ATM. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT VENDOR. COORDINATE WITH ARCHITECTURAL.

ELECTRICAL PLAN - POWER
3/16" = 1'-0"
NORTH

INTERPLAN LLC
ARCHITECTURE
ENGINEERING
INTERIOR DESIGN
PROJECT MANAGEMENT
AA 003420
CAB660
933 LEE ROAD, FIRST FLOOR
ORLANDO, FLORIDA 32810
PH 407.645.5008
FX 407.629.9124

SEAL:
JALCOLIN RUSSO
JUN 12 2009

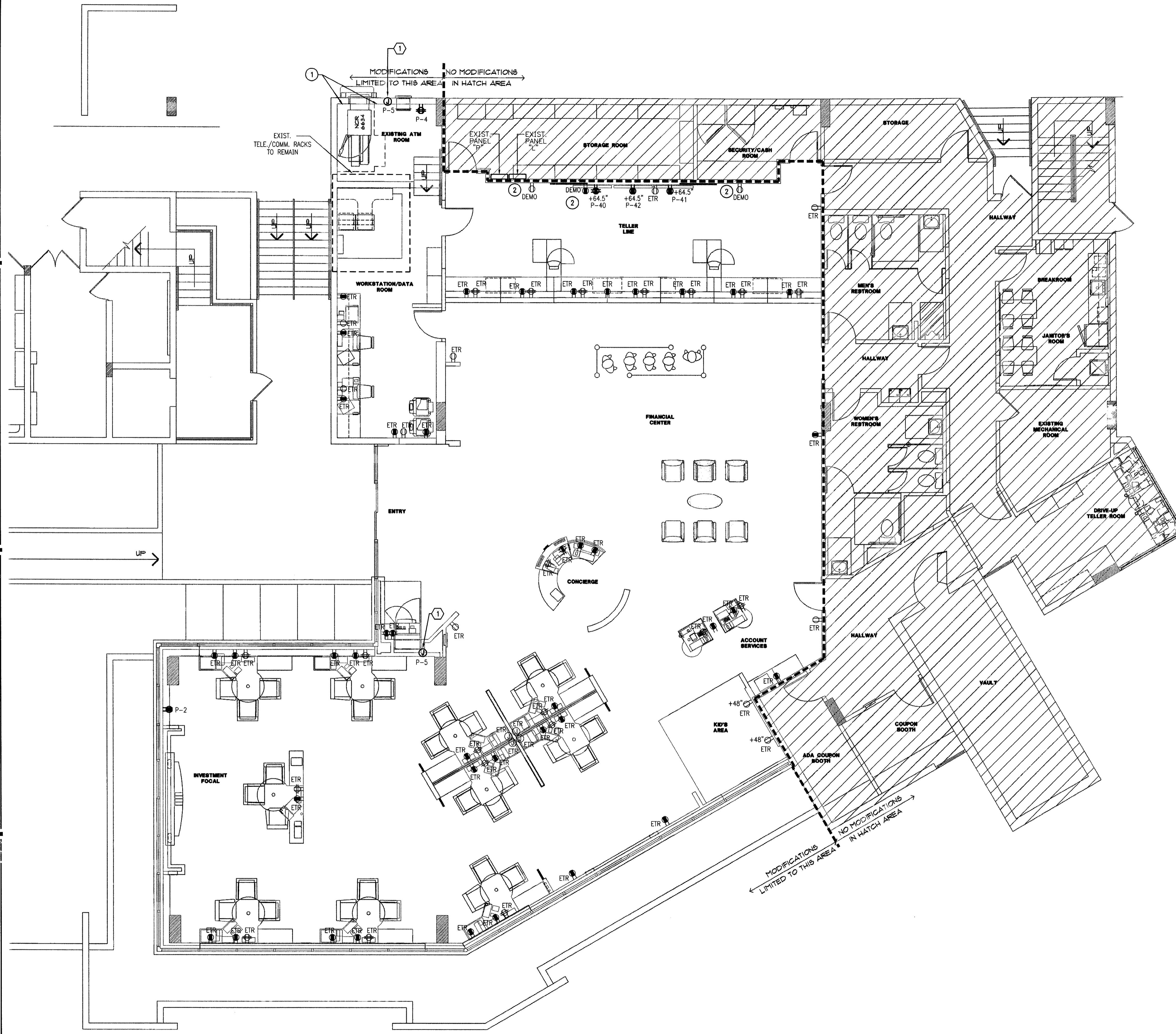
CONSULTANT:
REVISIONS:
NO. DATE REMARKS
1 06-10-09 PERMIT COMMENTS

CHASE
INTERIOR REBRANDING CONVERSION
MIAMI BEACH - ALTON ROAD
WAMU BLDG DB# 1924 CHASE STORE DB# 1742
1801 ALTON ROAD
MIAMI, FL 33139

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PROJECT NO: 2009.0109
DATE: 03/11/09

**ELECTRICAL PLAN-
POWER**
E2.0
DRAWN BY: SN
CHECKED BY: MGR

Electrical Plans Examiner
Lic. # PX 2611



POWER - DEMO GENERAL NOTES

- REFER TO ARCHITECTURAL DEMOLITION PLANS FOR EXISTING ITEMS TO BE REMOVED OR RELOCATED. REMOVE ASSOCIATED ELECTRICAL.
- REMOVE ALL DEVICES, JUNCTION BOXES (IF POSSIBLE), CONDUIT (IF NECESSARY) AND WIRING BACK TO NEAREST JUNCTION BOX THAT IS TO REMAIN IN ALL AREAS BEING DEMOLISHED OR RENOVATED UNLESS OTHERWISE NOTED. FLOOR BOXES AND CONDUIT IN FLOOR SLAB WILL NOT BE REMOVED. TURN OVER ALL REMOVED MATERIALS TO OWNER AT OWNER'S DISCRETION.
- ALL DEVICES SHOWN ON PLAN ARE EXISTING UNLESS OTHERWISE NOTED. REFER TO SYMBOL LEGEND FOR DEVICE DESCRIPTION.
- EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL GOVERN.
- THE DEMOLITION PLAN IS NOT INCLUSIVE OF ALL ELECTRICAL DEVICES WITHIN THE PROJECT AREA. IT IS INTENDED TO PROVIDE THE CONTRACTOR WITH A GENERAL KNOWLEDGE OF THE EXISTING CONDITIONS WITHIN THE PROJECT AREA. ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON THIS PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE PM. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED DEMOLITION WHETHER SHOWN ON THE PLANS OR NOT.
- ALL CONDUITS SERVING OTHER SPACES, THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION, SO AS NOT TO CAUSE ANY DISRUPTION TO THESE OTHER SPACES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL CONDUITS, NEW OR EXISTING, WITHIN THE PROJECT AREA ARE PROPERLY SUPPORTED AND PROVIDED W/ BONDING BUSHINGS IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
- ALL ITEMS REMOVED UNDER THIS PROJECT SHALL BE DISPOSED OF OR TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.
- THIS CONTRACTOR SHALL PROVIDE ELECTRICAL FOR PHASING WORK AS REQUIRED OR AS DIRECTED BY THE ARCHITECT. REFER TO ARCHITECTURAL PHASING PLAN. TEMPORARY ELECTRICAL SERVICES (POWER, LIGHTING, FIRE ALARM, ETC.) SHALL BE PROVIDED WHEN NEW WORK AFFECTS SERVICES NEEDING TO REMAIN ACTIVE.
- THE CONTRACTOR SHALL INVESTIGATE THE PROJECT AREA PRIOR TO BID TO DETERMINE ALL REQUIRED DEMOLITION.
- NO WORK BEING DONE ON EXTERIOR BUILDING DEVICES.

POWER - DEMO PLAN NOTES

- RELOCATE POWER ON THIS WALL AS NECESSARY TO AVOID CONFLICTS DUE TO WALL RENOVATION. REUTILIZE EXISTING OUTLET AND CIRCUIT.
- DEVICE TO BE REMOVED. REMOVE WIRING BACK TO NEAREST JUNCTION BOX THAT IS TO REMAIN. PROVIDE BLANK COVER AND PATCH TO MATCH SURROUNDING WALL. COORDINATE WITH ARCHITECTURAL.

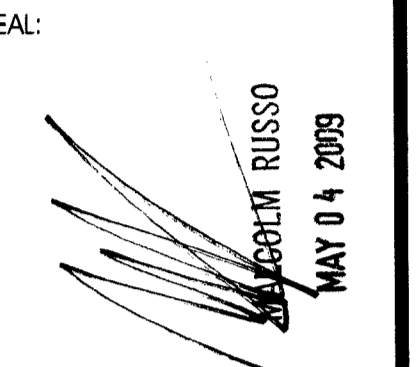
POWER - NEW GENERAL NOTES

- ALL OUTLETS AND EQUIPMENT SHALL BE CIRCUITED TO EXISTING CIRCUITS UNLESS OTHERWISE NOTED. NUMBERS INDICATE CIRCUITING. CONTRACTOR SHALL VERIFY ACTUAL CIRCUITS IN THE FIELD.
- CONTRACTOR SHALL INTERCEPT AND EXTEND CONDUIT AND WIRING FOR ALL CIRCUITS BEING RE-USED TO NEW DEVICE LOCATIONS AS NECESSARY.
- ALL WIRING SHALL BE IN CONDUIT. CONDUIT SIZE IS 1/2" MINIMUM UNLESS OTHERWISE NOTED. MC CABLE (MIN. 3/8") IS ALLOWED. HOWEVER, ALL HOMERUNS SHALL BE IN CONDUIT. ENT IS NOT PERMITTED. PVC IS ACCEPTABLE WHERE ALLOWED BY CODE. CONTRACTOR MAY USE EMT OR GRS AS ALLOWED BY CODE.
- WIRE SIZE SHALL BE MINIMUM #12 AWG, THWN SOLID COPPER UNLESS OTHERWISE NOTED. PROVIDE GROUND WIRE IN ALL RACEWAYS AND ANYWHERE REQUIRED BY CODE. INCREASE WIRE SIZE TO COMPENSATE FOR VOLTAGE DROP WHERE TOTAL LENGTH OF ANY BRANCH EXCEEDS 100 FEET.
- WIRE SIZE SHALL NOT BE LESS THAN CORRESPONDING CIRCUIT BREAKER RATING AS REQUIRED BY CODE.
- MAXIMUM NUMBER OF UNGROUNDED CONDUCTORS IN ANY CONDUIT SHALL BE THREE. ADDITIONAL WIRES ARE ACCEPTABLE IF WIRE SIZE IS INCREASED TO ALLOW FOR DERATING PER CODE. PROVIDE ADDITIONAL WIRES FOR SWITCHING AS REQUIRED.
- CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
- EACH RECEPTACLE CIRCUIT DOES NOT REQUIRE A DEDICATED NEUTRAL. SHARED NEUTRALS ARE ALLOWED EXCEPT FOR ISOLATED GROUND CIRCUITS.
- VERIFY MOUNTING AND LOCATION OF ALL OUTLETS WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO DETAIL 1 SHEET E0.0 FOR ISOLATED GROUND RECEPTACLE DETAILS.

POWER - NEW PLAN NOTES

- JUNCTION BOX FOR BLUE GLOWING WALL SURROUNDING ATM. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT VENDOR. COORDINATE WITH ARCHITECTURAL.

ELECTRICAL PLAN - POWER
3/16" = 1'-0"



CONSULTANT:

REVISIONS:
NO. DATE REMARKS

CHASE
INTERIOR REBRANDING CONVERSION
MIAMI BEACH - ALTON ROAD
WAMI BLDG ID# 1924 CHASE STORE ID# 1742
1801 ALTON ROAD
MIAMI, FL 33139

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PROJECT NO: 2009.0109
DATE: 04/30/2009

ELECTRICAL PLAN-
POWER

E2.0

DRAWN BY: SN
CHECKED BY: MGR

SEAL:

[Signature]
MALCOLM RUBBO
AUG 17 2009

CONSULTANT:

REVISIONS:

NO. DATE REMARKS
6-10-09 PERMIT COMMENTS
2 6-10-09 OWNER REVISIONS

CHASE
INTERIOR REBRANDING CONVERSION
MIAMI BEACH - ALTON ROAD
MIAMI BLDG ID# 1924 CHASE STORE ID# 1742
1801 ALTON ROAD
MIAMI, FL 33139

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PROJECT NO: 2009.0109
DATE: 06/03/09

**ELECTRICAL RISER
DIAGRAM AND
PANEL SCHEDULES**

E4.0

DRAWN BY: SN
CHECKED BY: MGR

Electrical Plans Examiner
Lic. # 9X 2611
[Signature]

[Signature]
ADDED NEW SHEET.

PANEL: P (EXISTING)
BUS AMPS: 225A
MAIN SIZE/TYP: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION(S): 1

SERVES: BANK
MOUNTING: SURFACE
LOCATION: STORAGE

CKT NO.	DESCRIPTION	VOLTAMPS / PHASE			WIRE NO.	BKR	P	WIRE NO.	VOLTAMPS / PHASE			DESCRIPTION	CKT NO.	
		A	B	C					A	B	C			
1	TELLER LINE	1,000			12	20	1	20	12	400		2	SYSTEM FURNITURE-INV FOCAL	
3	TELLER LINE		1,000		12	20	1	20	12	400		4	SYSTEM FURNITURE-INV FOCAL	
5	ATM - BLUE GLOWING WALL			1,000	12	20	1	20	12		1,500	6	COPIER	
7	ATM	1,000			12	20	1	20	12	400		8	SYSTEM FURNITURE-INV FOCAL	
9	DATA RACK		1,000		12	20	1	20	12	400	400	10	SYSTEM FURNITURE-INV FOCAL	
11	DATA RACK			1,000	12	20	1	20	12		1,000	12	TELLER PLATFORMS-PRINTER	
13	PHONE SYSTEM	500			12	20	1	20	12	1,000		14	TELLER PLATFORMS-PRINTER	
15	WORKSTATION		750		12	20	1	20	12	400		16	SYSTEM FURNITURE	
17	WORKSTATION-PRINTER			1,000	12	20	1	20	12		400	18	SYSTEM FURNITURE	
19	WORKSTATION-PRINTER	1,000			12	20	1	20	12	750		20	DRIVE UP TELLER	
21	COPIER		1,500		12	20	1	20	12		1,000	22	SECURITY EQUIPMENT	
23	WORKSTATION-LOBBY			400	12	20	1	20	12		1,000	24	SECURITY EQUIPMENT	
25	WORKSTATION-LOBBY	400			12	20	1	20	12	540		26	WORKSTATION	
27	ATM		1,000		12	20	1	20	12		720	28	TELLER LINE	
29	SPARE			0	12	20	1	20	12		540	30	CONV. RECEPTACLE	
31	SYSTEM FURNITURE	400			12	20	1	20	12	1,800		32	UPS	
33	SYSTEM FURNITURE		400		12	20	1	20	12		1,800	34	UPS	
35	ATM			500	12	20	1	20	12		400	36	SYSTEM FURNITURE-INV FOCAL	
37	SYSTEM FURNITURE-INV FOCAL	400			12	20	1	20	12	7,720		38	SYSTEM FURNITURE-INV FOCAL	
39	SYSTEM FURNITURE-INV FOCAL			800	12	20	1	3	100		11,055	40	EXISTING PANEL "L"	
41	SYSTEM FURNITURE-INV FOCAL			800	12	20	1					42	EXISTING PANEL "L"	
SUBTOTAL		4,700	6,450	4,700									SUBTOTAL	
TOTAL PHASE A		VA 17,310			AMP 183									
TOTAL PHASE B		VA 22,225			AMP 238									
TOTAL PHASE C		VA 19,283			AMP 200									
TOTAL PANEL		VA 57,338			AMP 168		TOTAL DEMAND		VA 37,800		AMP 185			

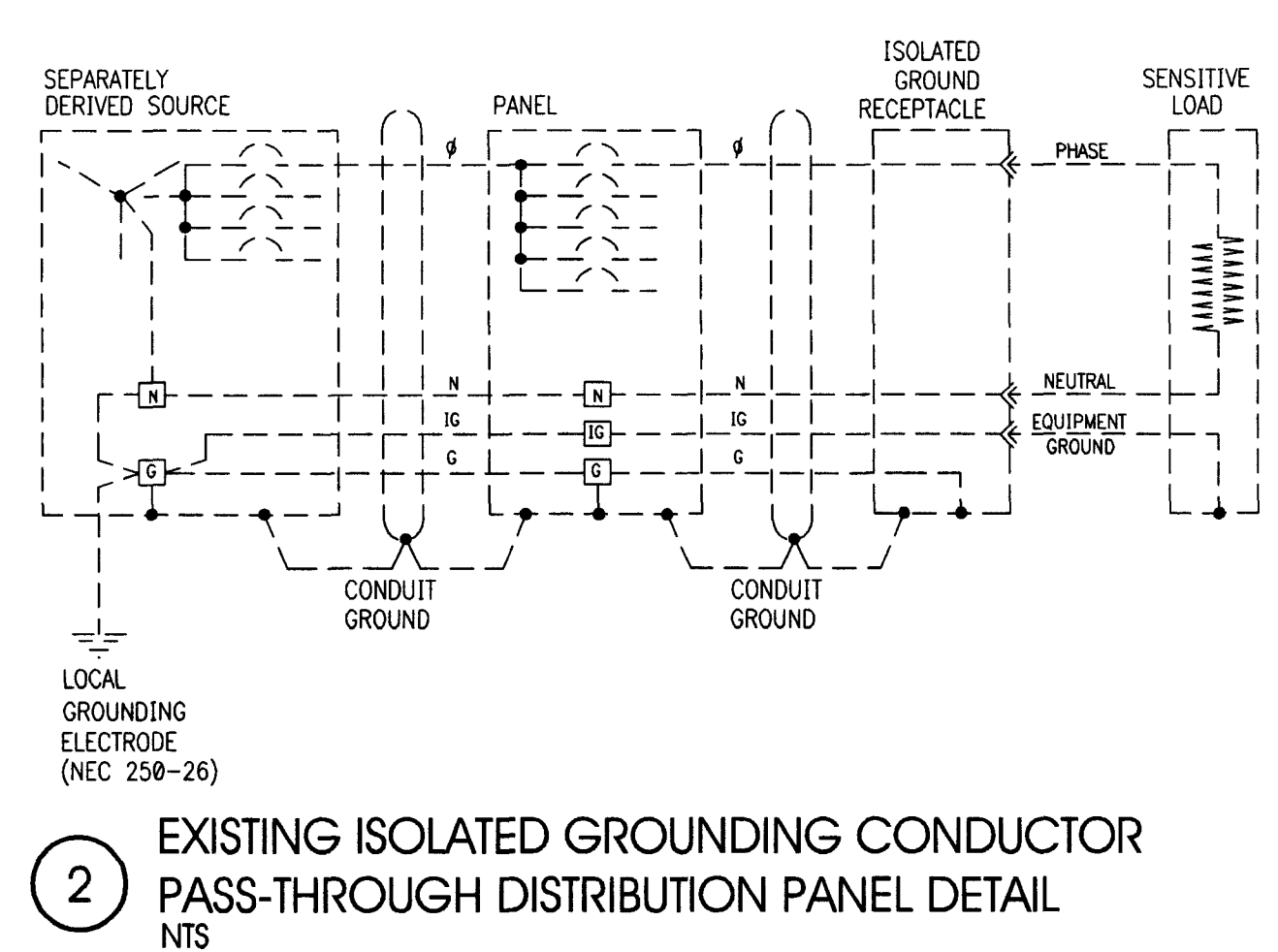
IG - ISOLATED GROUND CIRCUIT

PANEL: L (EXISTING)
BUS AMPS: 100A
MAIN SIZE/TYP: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION(S): 1

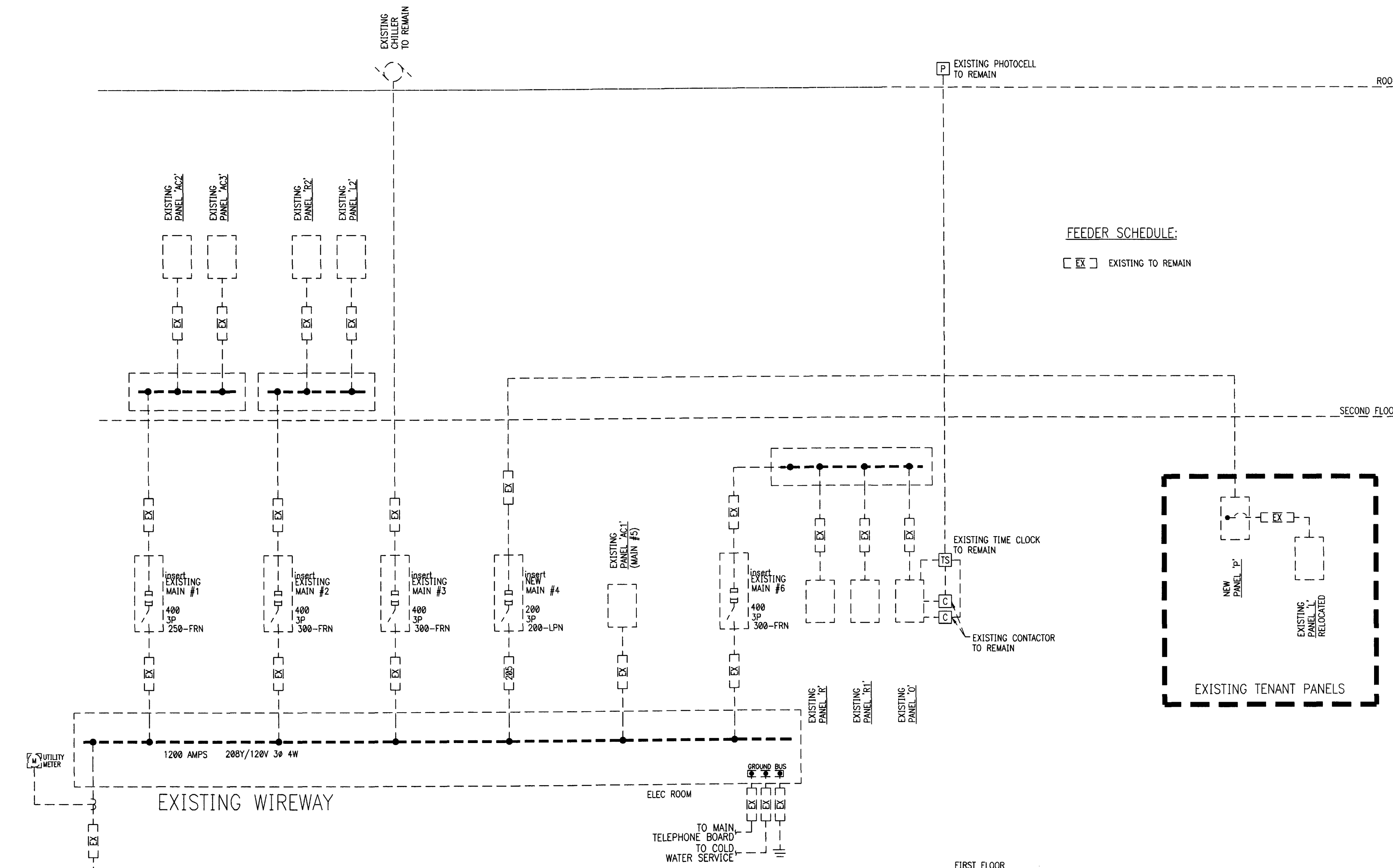
SERVES: BANK LIGHTING
MOUNTING: SURFACE
LOCATION: STORAGE

CKT NO.	DESCRIPTION	VOLTAMPS / PHASE			WIRE NO.	BKR	P	WIRE NO.	VOLTAMPS / PHASE			DESCRIPTION	CKT NO.		
		A	B	C					A	B	C				
1	FINANCIAL CENTER	1,058			12	20	1	20	12	500		2	COFFEE/WATER		
3	FINANCIAL CENTER		1,477		12	20	1	20	12		1,250	4	MICROWAVE		
5	FINANCIAL CENTER			1,184	12	20	1	20	12		1,000	6	REFRIGERATOR		
7	FINANCIAL CENTER	1,058			12	20	1	20	12	1,000		8	DRIVE-UP/CONV. RECEPT.		
9	NIGHT LIGHT		738		12	20	1	20	12		1,000	10	KID'S AREA/CONV. RECEPT.		
11	TRACK INVESTMENT FOCAL			1,500	12	20	1	20	12		900	12	TLS/WATER FOUNTAIN		
13	TRACK FOCAL	1,200			12	20	1	20	12	500		14	TELLER LINE FLAT SCREEN MONITORS		
15	TRACK FOCAL		1,200		12	20	1	20	12		500	16	TELLER LINE FLAT SCREEN MONITORS		
17	NIGHT LIGHT			922	12	20	1	20	12		500	18	TELLER LINE FLAT SCREEN MONITORS		
19	COVE LIGHTING	372			12	20	1	20	12	720		20	TELLER LINE		
21	LTC-SOUTH WORK AREA		1,165		12	20	1	20	12		1,000	22	CONV. RECEPTACLE		
23	LTC-NORTH WORK AREA			1,352	12	20	1	20	12		0	24	SPARE		
25	EF-3/FC-1	292			12	20	1	20	12		0	26	SPARE		
27	CU-1		985		10	30	2	1	20		540	28	WORKSTATION		
29	CU-1		985		10	30	2	1	20		540	30	WORKSTATION		
SUBTOTAL		3,980	5,495	5,785							2,800	3,910	2,940	SUBTOTAL	
TOTAL PHASE A		VA 6,780			AMP 57										
TOTAL PHASE B		VA 9,405			AMP 79										
TOTAL PHASE C		VA 8,723			AMP 73										
TOTAL PANEL		VA 24,908			AMP 70		TOTAL DEMAND		VA 17454		AMP 49				

ALL CIRCUIT BREAKERS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. NEW BREAKER SHALL MATCH MANUFACTURER AND AIC RATING OF EXISTING CIRCUIT BREAKER.



2 EXISTING ISOLATED GROUNDING CONDUCTOR PASS-THROUGH DISTRIBUTION PANEL DETAIL NTS



1 EXISTING ELECTRICAL ONE-LINE RISER DIAGRAM NTS

20090809100010044.dwg 648 ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES 06/17/2009 7:56:57 AM REMOVAL, WEL, CONVENT, CA8660, AND I (D:\300_242000\Draws)\11

PANEL: P (EXISTING)
BUS AMPS: 225A
MAIN SIZE/TYP: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION(S): 1

SERVES: BANK
MOUNTING: SURFACE
LOCATION: STORAGE

EQUIPMENT GROUND BUS
ISOLATED GROUND BUS

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE			WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE			DESCRIPTION	CKT NO.
		A	B	C							A	B	C		
1	TELLER LINE	1,000			12	20	1	1	20	12	1,200			2	TELLER PLATFORMS
3	TELLER LINE	1,000			12	20	1	1	20	12	1,000			4	TELLER PLATFORMS-PRINTER
5	ATM - BLUE GLOWING WALL		1,000		12	20	1	1	20	12		1,000		6	TELLER PLATFORMS-PRINTER
7	ATM	1,000			12	20	1	1	20	12	1,000			8	TELLER PLATFORMS
9	DATA RACK	1,000			12	20	1	1	20	12	1,000			10	TELLER PLATFORMS-PRINTER
11	WORKSTATION		1,000		12	20	1	1	20	12		1,000		12	TELLER PLATFORMS-PRINTER
13	PHONE SYSTEM	500			12	20	1	1	20	12	1,000			14	TELLER PLATFORMS-PRINTER
15	WORKSTATION		750		12	20	1	1	20	12		1,000		16	ACCOUNT SERVICE
17	WORKSTATION-PRINTER			1,000	12	20	1	1	20	12			1,000	18	ACCOUNT SERVICE-PRINTER
19	WORKSTATION-PRINTER	1,000			12	20	1	1	20	12	750			20	DRIVE UP TELLER
21	WORKSTATION-COPIER		1,000		12	20	1	1	20	12		1,000		22	SECURITY EQUIPMENT
23	CONCIERGE/FOCAL			1,000	12	20	1	1	20	12			1,000	24	SECURITY EQUIPMENT
25	CONCIERGE-PRINTER	1,000			12	20	1	1	20	12	720			26	WORKSTATION
27	ATM		1,000		12	20	1	1	20	12		720		28	TELLER LINE
29	CONSULTATION PLATFORMS			1,000	12	20	1	1	20	12			900	30	CONV. RECEPTACLE
31	CONSULTATION PLATFORMS	1,000			12	20	1	1	20	12	1,800			32	UPS
33	CONSULTATION PLATFORMS		1,000		12	20	1	1	20	12		1,800		34	UPS
35	ATM			500	12	20	1	1	20	12			1000	36	NIGHT DEPOSITORY
37	TELLER LINE FLAT SCREEN MONITORS	500			12	20	1				7,720			38	RELOCATED
39	TELLER LINE FLAT SCREEN MONITORS		500		12	20	1					11,055		40	EXISTING PANEL "L"
41	TELLER LINE FLAT SCREEN MONITORS			500	12	20	1	3	100	1				42	
SUBTOTAL		6,000	6,250	6,000							14,190	17,575	15,563	SUBTOTAL	

TOTAL PHASE A	VA	20,190
	AMPS	169
TOTAL PHASE B	VA	23,825
	AMPS	199
TOTAL PHASE C	VA	21,563
	AMPS	180
TOTAL PANEL	VA	65,578
	AMPS	183
TOTAL DEMAND	VA	48,927
	AMPS	136

IG - ISOLATED GROUND CIRCUIT

PANEL: L (EXISTING)
BUS AMPS: 100A
MAIN SIZE/TYP: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION(S): 1

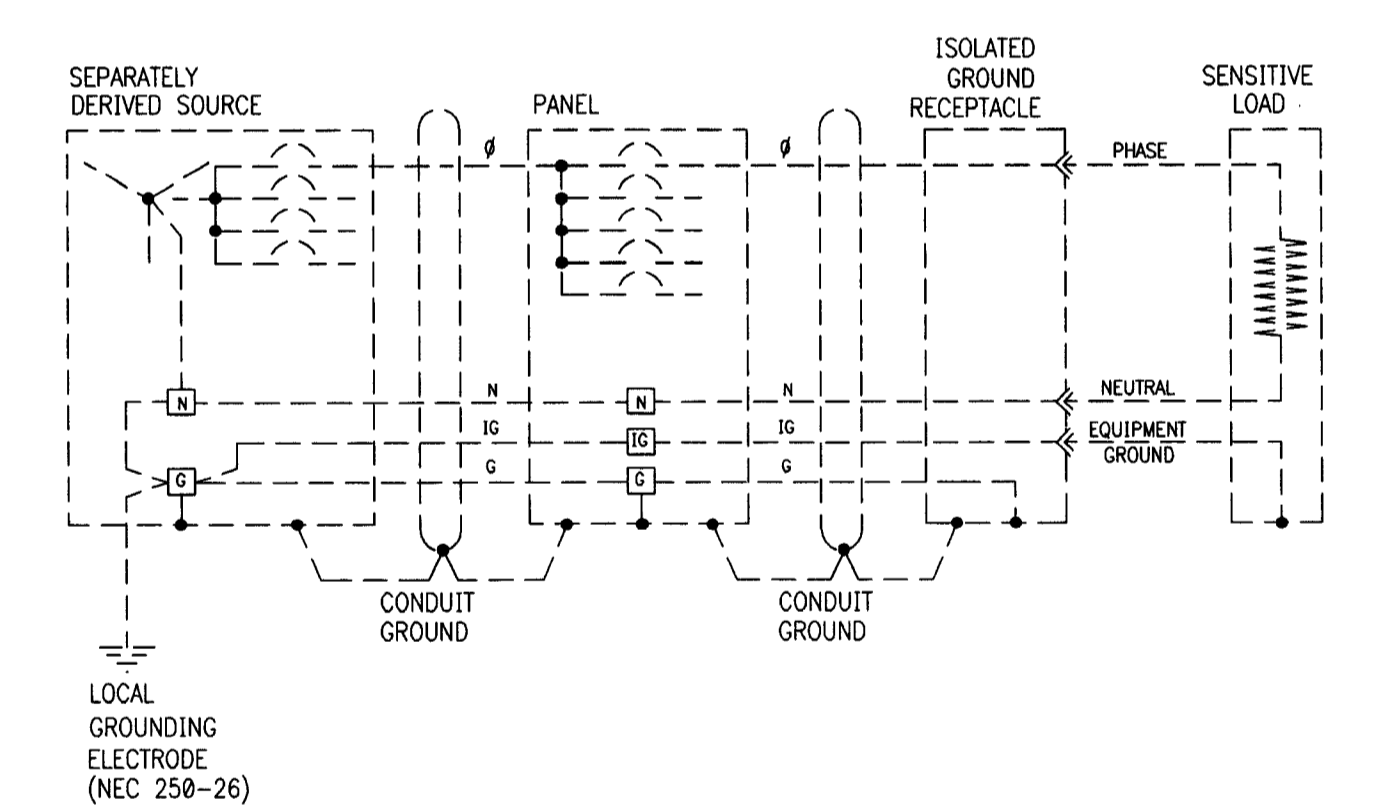
SERVES: BANK LIGHTING
MOUNTING: SURFACE
LOCATION: STORAGE

PROVIDE EQUIPMENT GROUND
BUS IF NOT EXISTING

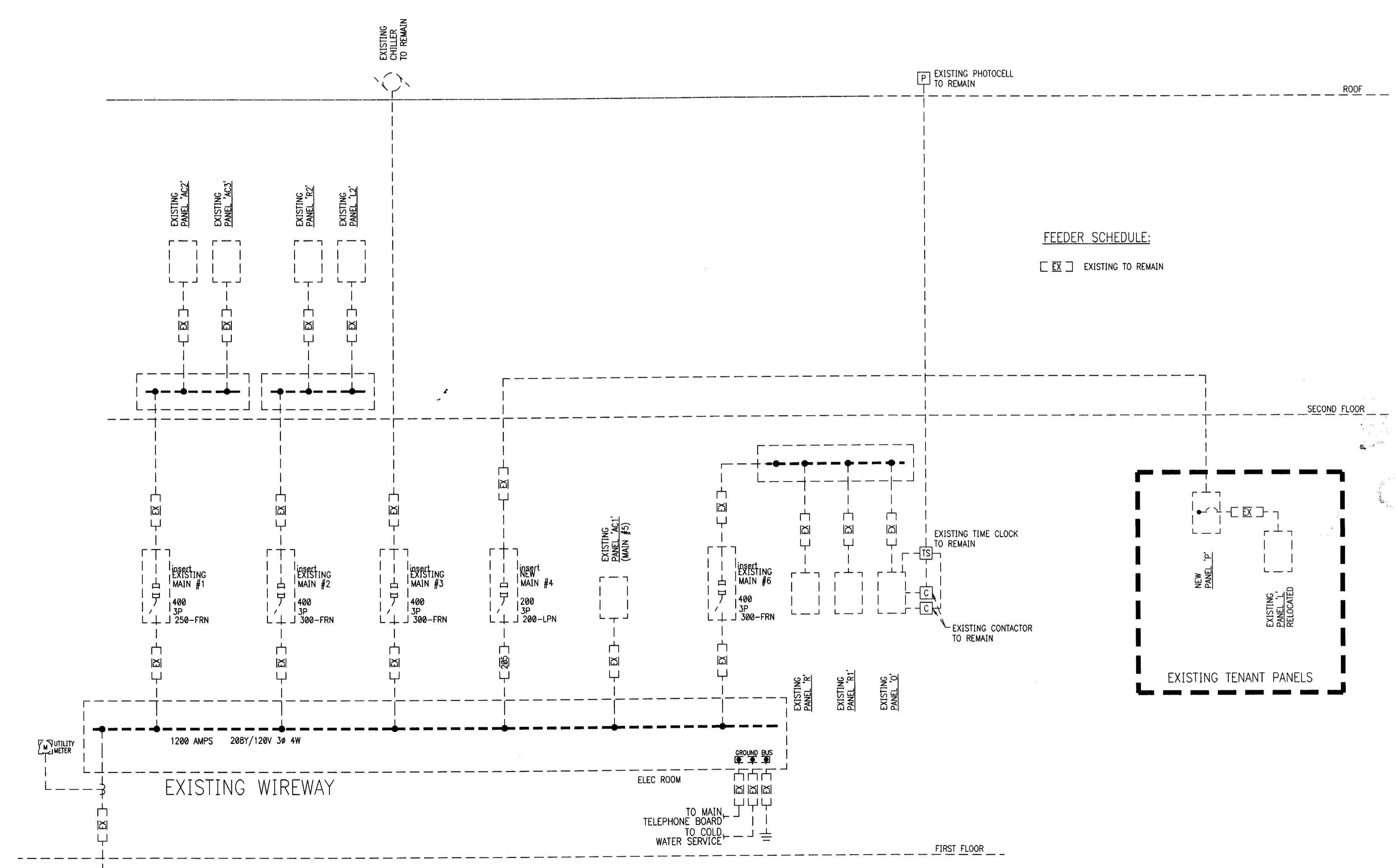
CKT NO.	DESCRIPTION	VOLTAMPS / PHASE			WIRE SZ	BKR AMP	P	P	BKR AMP	WIRE SZ	VOLTAMPS / PHASE			DESCRIPTION	CKT NO.
		A	B	C							A	B	C		
1	FINANCIAL CENTER	1,058			12	20	1	1	20	12	500			2	COFFEE/WATER
3	FINANCIAL CENTER		1,477		12	20	1	1	20	12		1,250		4	MICROWAVE
5	FINANCIAL CENTER			1,184	12	20	1	1	20	12			1,000	6	REFRIGERATOR
7	FINANCIAL CENTER	1,058			12	20	1	1	20	12	1,050			8	DRIVE-UP/CONV. RECEPT.
9	NIGHT LIGHT		738		12	20	1	1	20	12		1,080		10	KID'S AREA/CONV. RECEPT.
11	TRACK INVESTMENT FOCAL			1,500	12	20	1	1	20	12			900	12	TLS/WATER FOUNTAIN
13	TRACK FOCAL	1,200			12	20	1	1	20	12	720			14	ACCOUNT SERVICE
15	TRACK FOCAL		1,200		12	20	1	1	20	12		1,060		16	TELLER PLATFORMS
17	NIGHT LIGHT			922	12	20	1	1	20	12			720	18	TELLER LINE
19	COVE LIGHTING	372			12	20	1	1	20	12	720			20	TELLER LINE
21	LTG-SOUTH WORK AREA		1,165		12	20	1	1	20	12		1,080		22	CONV. RECEPTACLE
23	LTG-NORTH WORK AREA			1,352	12	20	1	1	20	12			720	24	CONSULTATION PLATFORMS
25	EF-3/FC-1	292			12	20	1	1	20	12	720			26	CONSULTATION PLATFORMS
27	CU-1		905		10	30	2	1	20	12		1,080		28	TELLER PLATFORMS
29				905								540		30	WORKSTATION
SUBTOTAL		3,980	5,495	5,783							3,720	5,720	3,880	SUBTOTAL	

TOTAL PHASE A	VA	7,720
	AMPS	64
TOTAL PHASE B	VA	11,055
	AMPS	93
TOTAL PHASE C	VA	9,663
	AMPS	81
TOTAL PANEL	VA	28,438
	AMPS	80
TOTAL DEMAND	VA	29,710
	AMPS	83

ALL CIRCUIT BREAKERS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. NEW BREAKER SHALL MATCH MANUFACTURER AND AIC RATING OF EXISTING CIRCUIT BREAKER.



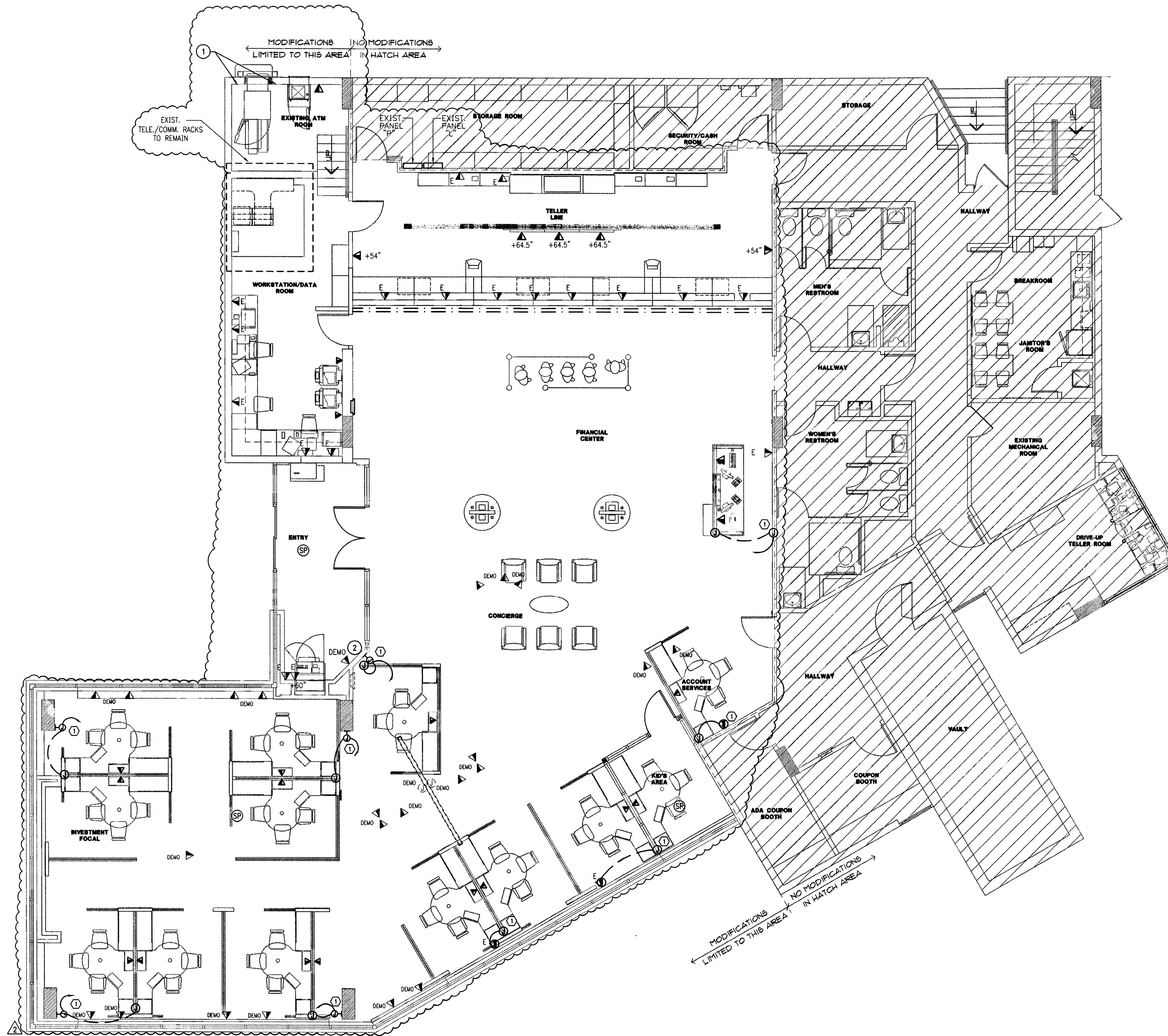
2 EXISTING ISOLATED GROUNDING CONDUCTOR PASS-THROUGH DISTRIBUTION PANEL DETAIL NTS



1 EXISTING ELECTRICAL ONE-LINE RISER DIAGRAM NTS

Electrical Plans Examiner
Lic. # PX 2811

ADDED NEW SHEET.



ELECTRICAL PLAN - SYSTEMS
3/16" = 1'-0"



SYSTEM - DEMO GENERAL NOTES

- REFER TO ARCHITECTURAL DEMOLITION PLANS FOR EXISTING TO BE REMOVED OR RELOCATED. REMOVE ASSOCIATED SYSTEMS DEVICES AND WIRING.
- REMOVE ALL DEVICES, JUNCTION BOXES (IF POSSIBLE), CONDUIT (IF NECESSARY) AND WIRING BACK TO NEAREST JUNCTION BOX THAT IS TO REMAIN IN ALL AREAS BEING DEMOLISHED OR RENOVATED UNLESS OTHERWISE NOTED. FLOOR BOXES AND CONDUIT IN FLOOR SLAB WILL NOT BE REMOVED. TURN OVER ALL REMOVED MATERIALS TO OWNER AT OWNER'S DISCRETION.
- ALL DEVICES SHOWN ON PLAN ARE EXISTING. REFER TO SYMBOL LEGEND FOR DEVICE DESCRIPTION.
- EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL GOVERN.
- THE DEMOLITION PLAN IS NOT INCLUSIVE OF ALL ELECTRICAL DEVICES WITHIN THE PROJECT AREA. IT IS INTENDED TO PROVIDE THE CONTRACTOR WITH A GENERAL KNOWLEDGE OF THE EXISTING CONDITIONS WITHIN THE PROJECT AREA. ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON THIS PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE PMC. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED DEMOLITION WHETHER SHOWN ON THE PLANS OR NOT.
- ALL CONDUITS SERVING OTHER SPACES, THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION, SO AS NOT TO CAUSE ANY DISRUPTION TO THESE OTHER SPACES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL CONDUITS, NEW OR EXISTING, WITHIN THE PROJECT AREA ARE PROPERLY SUPPORTED AND PROVIDED W/ BONDING BUSHINGS IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
- ALL ITEMS REMOVED UNDER THIS PROJECT SHALL BE DISPOSED OF OR TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.
- THIS CONTRACTOR SHALL PROVIDE ELECTRICAL FOR PHASING WORK AS REQUIRED OR DIRECTED BY THE ARCHITECT, REFER TO ARCHITECTURAL PHASING PLAN. TEMPORARY ELECTRICAL SERVICES (POWER, LIGHTING, FIRE ALARM, ETC.) SHALL BE PROVIDED WHEN NEW WORK AFFECTS SERVICES NEEDING TO REMAIN ACTIVE.
- THE CONTRACTOR SHALL INVESTIGATE THE PROJECT AREA PRIOR TO BID TO DETERMINE ALL REQUIRED DEMOLITION.

SYSTEM - DEMO PLAN NOTES

- RELOCATE TELE./COMM. ON THIS WALL AS NECESSARY TO AVOID CONFLICTS DUE TO WALL RENOVATION. REUTILIZE EXISTING OUTLETS.
- DEVICE TO BE REMOVED. REMOVE WIRING BACK TO NEAREST JUNCTION BOX THAT IS TO REMAIN. PROVIDE BLANK COVER AND PATCH TO MATCH SURROUNDING WALL. COORDINATE WITH ARCHITECTURAL.

SYSTEMS - NEW GENERAL NOTES

- ALL SYSTEMS DEVICE LOCATIONS SHOWN ON PLAN SHALL CONSIST OF JUNCTION BOX AND CONDUIT ONLY. DEVICE, FACEPLATE AND WIRING TO BE PROVIDED BY OTHERS.
- ALL SYSTEMS CONDUITS IN WALL SHALL BE MINIMUM 1" C, STUBBED UP AT LEAST 6" ABOVE TOP OF ACCESSIBLE CEILING GRID AND PROVIDED WITH A 90° BEND TOWARD SYSTEMS RACKS AND END BUSHINGS.
- VERIFY MOUNTING AND LOCATION OF ALL OUTLETS WITH ARCHITECT PRIOR TO INSTALLATION.

SYSTEMS - NEW PLAN NOTES

- JUNCTION BOX AND/OR CONDUIT IN FLOOR FOR FEED TO WORKSTATION. ROUTE 1" CONDUIT DOWN COLUMN INTO JUNCTION BOX OR SLAB. SAWCUT AND PATCH SLAB AS NECESSARY. COORDINATE CONNECTION WITH FURNITURE INSTALLATION REQUIREMENTS.

Electrical Plans Examiner
Lic. # PX 2611

INTERPLAN

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN
PROJECT MANAGEMENT

AA 003420
CA8660

933 LEE ROAD, FIRST FLOOR
ORLANDO, FLORIDA 32810
PH 407.645.5008
FX 407.629.9124

SEAL:
WALCOLIN RUSSO
OCT 08 2009

CONSULTANT:

REVISIONS:

NO.	DATE	REMARKS
2	6-18-09	OWNER REVISIONS

CHASE
INTERIOR REBRANDING CONVERSION
MIAMI BEACH - ALTON ROAD
WAMI BLDG ID# 1924 CHASE STORE ID# 1742
MIAMI, FL 33139

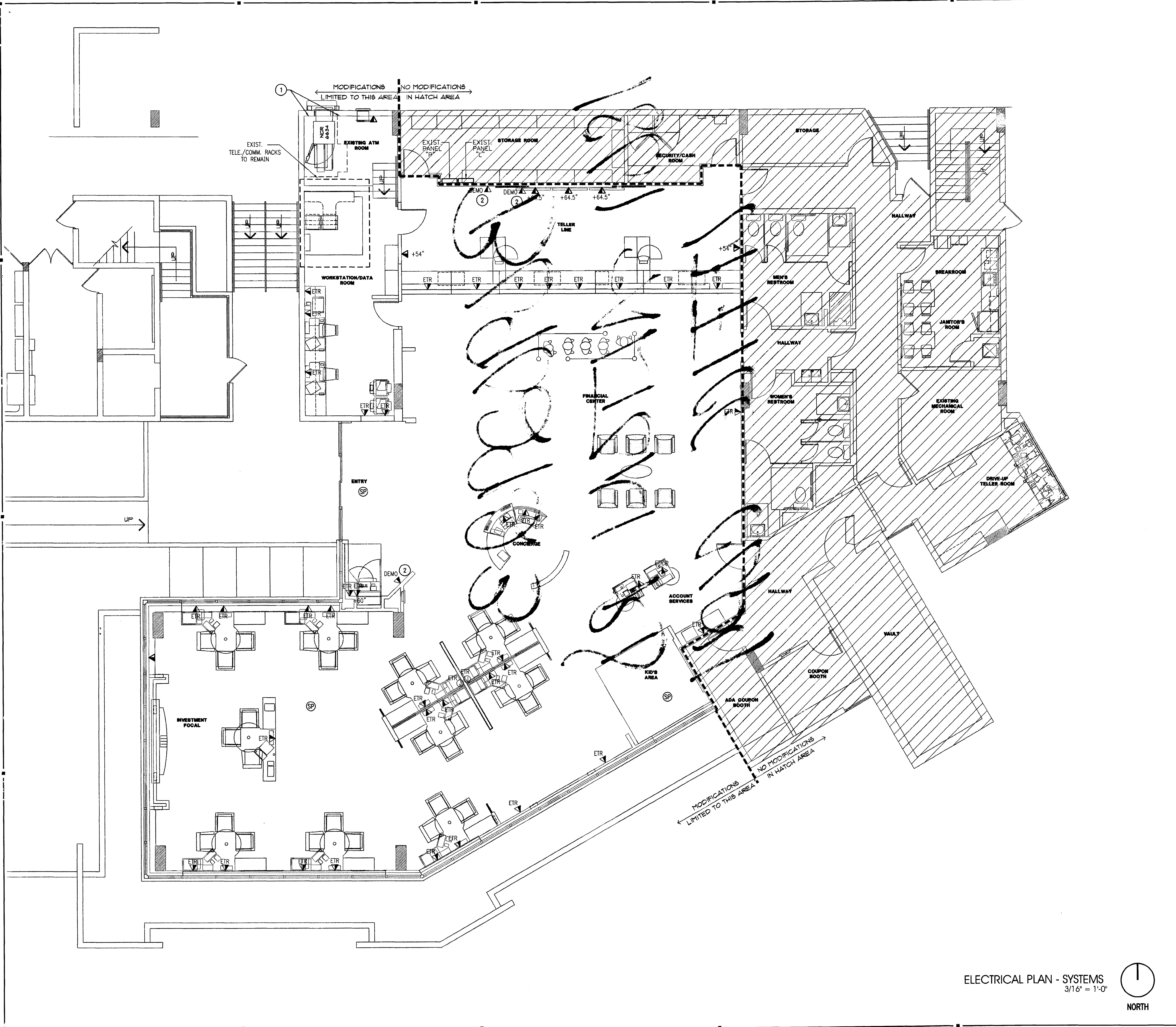
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PROJECT NO: 2009.0109
DATE: 04/30/2009

ELECTRICAL PLAN - SYSTEMS

E3.0

DRAWN BY: SN
CHECKED BY: MGR



ELECTRICAL PLAN - SYSTEMS
 3/16" = 1'-0"
 NORTH

SYSTEM - DEMO GENERAL NOTES

- REFER TO ARCHITECTURAL DEMOLITION PLANS FOR EXISTING TO BE REMOVED OR RELOCATED. REMOVE ASSOCIATED SYSTEMS DEVICES AND WIRING.
- REMOVE ALL DEVICES, JUNCTION BOXES (IF POSSIBLE), CONDUIT (IF NECESSARY) AND WIRING BACK TO NEAREST JUNCTION BOX THAT IS TO REMAIN IN ALL AREAS BEING DEMOLISHED OR RENOVATED UNLESS OTHERWISE NOTED. FLOOR BOXES AND CONDUIT IN FLOOR SLAB WILL NOT BE REMOVED. TURN OVER ALL REMOVED MATERIALS TO OWNER AT OWNER'S DISCRETION.
- ALL DEVICES SHOWN ON PLAN ARE EXISTING. REFER TO SYMBOL LEGEND FOR DEVICE DESCRIPTION.
- EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL GOVERN.
- THE DEMOLITION PLAN IS NOT INCLUSIVE OF ALL ELECTRICAL DEVICES WITHIN THE PROJECT AREA. IT IS INTENDED TO PROVIDE THE CONTRACTOR WITH A GENERAL KNOWLEDGE OF THE EXISTING CONDITIONS WITHIN THE PROJECT AREA. ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON THIS PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE PMC. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED DEMOLITION WHETHER SHOWN ON THE PLANS OR NOT.
- ALL CONDUITS SERVING OTHER SPACES, THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION, SO AS NOT TO CAUSE ANY DISRUPTION TO THESE OTHER SPACES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL CONDUITS, NEW OR EXISTING, WITHIN THE PROJECT AREA ARE PROPERLY SUPPORTED AND PROVIDED W/ BONDING BUSHINGS IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
- ALL ITEMS REMOVED UNDER THIS PROJECT SHALL BE DISPOSED OF OR TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.
- THIS CONTRACTOR SHALL PROVIDE ELECTRICAL FOR PHASING WORK AS REQUIRED OR DIRECTED BY THE ARCHITECT, REFER TO ARCHITECTURAL PHASING PLAN. TEMPORARY ELECTRICAL SERVICES (POWER, LIGHTING, FIRE ALARM, ETC.) SHALL BE PROVIDED WHEN NEW WORK AFFECTS SERVICES NEEDING TO REMAIN ACTIVE.
- THE CONTRACTOR SHALL INVESTIGATE THE PROJECT AREA PRIOR TO BID TO DETERMINE ALL REQUIRED DEMOLITION.

SYSTEM - DEMO PLAN NOTES

- RELOCATE TELE./COMM. ON THIS WALL AS NECESSARY TO AVOID CONFLICTS DUE TO WALL RENOVATION. REUTILIZE EXISTING OUTLETS.
- DEVICE TO BE REMOVED. REMOVE WIRING BACK TO NEAREST JUNCTION BOX SURROUNDING WALL. COORDINATE WITH ARCHITECTURAL.

SYSTEMS - NEW GENERAL NOTES

- ALL SYSTEMS DEVICE LOCATIONS SHOWN ON PLAN SHALL CONSIST OF JUNCTION BOX AND CONDUIT ONLY. DEVICE, FACEPLATE AND WIRING TO BE PROVIDED BY OTHERS.
- ALL SYSTEMS CONDUITS IN WALL SHALL BE MINIMUM 1", STUBBED UP AT LEAST 6" ABOVE TOP OF ACCESSIBLE CEILING GRID AND PROVIDED WITH A 90° BEND TOWARD SYSTEMS RACKS AND END BUSHINGS.
- VERIFY MOUNTING AND LOCATION OF ALL OUTLETS WITH ARCHITECT PRIOR TO INSTALLATION.

INTERPLAN

ARCHITECTURE
 ENGINEERING
 INTERIOR DESIGN
 PROJECT MANAGEMENT
 933 LEE ROAD, FIRST FLOOR
 ORLANDO, FLORIDA 32810
 PH 407.645.5008
 FX 407.645.5024

SEAL:
 [Signature]
 MAY 0 2009

CONSULTANT:
 [Signature]

REVISIONS:

NO.	DATE	REMARKS

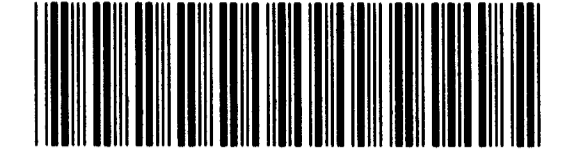
CHASEO
 INTERIOR REBRANDING CONVERSION
 MIAMI BEACH - ALTON ROAD
 WAMU BLDG IDF 1924 CHASE STORE IDF 1242
 1801 ALTON ROAD
 MIAMI, FL 33139

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 PROJECT NO: 2009.0109
 DATE: 04/30/2009

ELECTRICAL PLAN - SYSTEMS

E3.0
 DRAWN BY: SN
 CHECKED BY: MGR

M2009 006 748



0000299746

DERM
PLAN REVIEW
FINAL
APPROVAL

DEPARTMENT OF ENVIRONMENTAL
REGULATIONS MANAGEMENT

CORE REGISTRATION NO.
SIGNATURE DATE 6/16/09

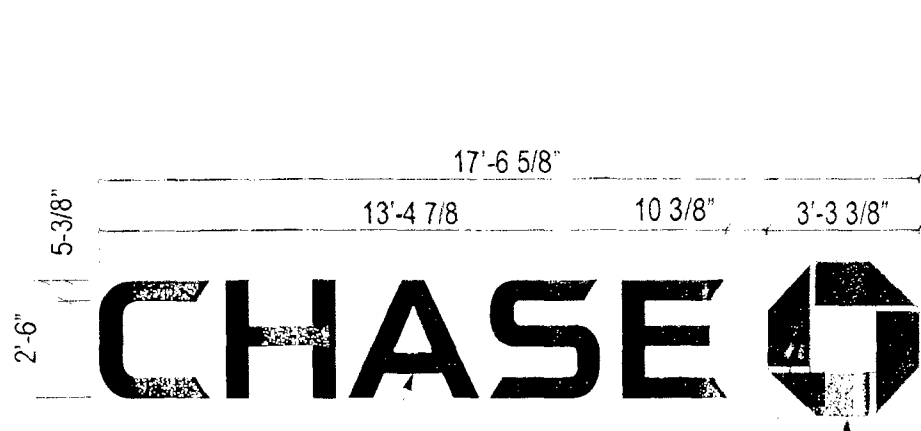
BU902923
1801 ALTU RD
OFFICE COPY

BU902923/1801 Altou Rd

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING:
ZONING:
DRB/HPB:
CONCURRENCY:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
PUBLIC WORKS:
STRUCTURE:

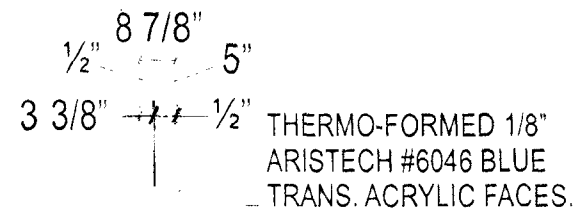
plen



LETTER FACE TO BE .177
ATOGLASS #3063 P95M
W/ MATTE FACE OUT. SECOND
SURFACE DECORATE WITH 3M
FILM 3635-70 WHITE DIFFUSER

THERMO-FORMED 1/8"
ARISTECH #6046 BLUE
TRANS. ACRYLIC FACES.

— WEEP HOLES
(AS REQ'D)



THERMO-FORMED 1/8"
ARISTECH #6046 BLUE
TRANS. ACRYLIC FACES.

.090" ALUM. RETURNS
EXTERIORS FINISHED
MP-19891 NICKEL GLOSS
W/ INTERIORS FINISHED WHITE.

1/2" STAND-OFF
(AS REQ'D)

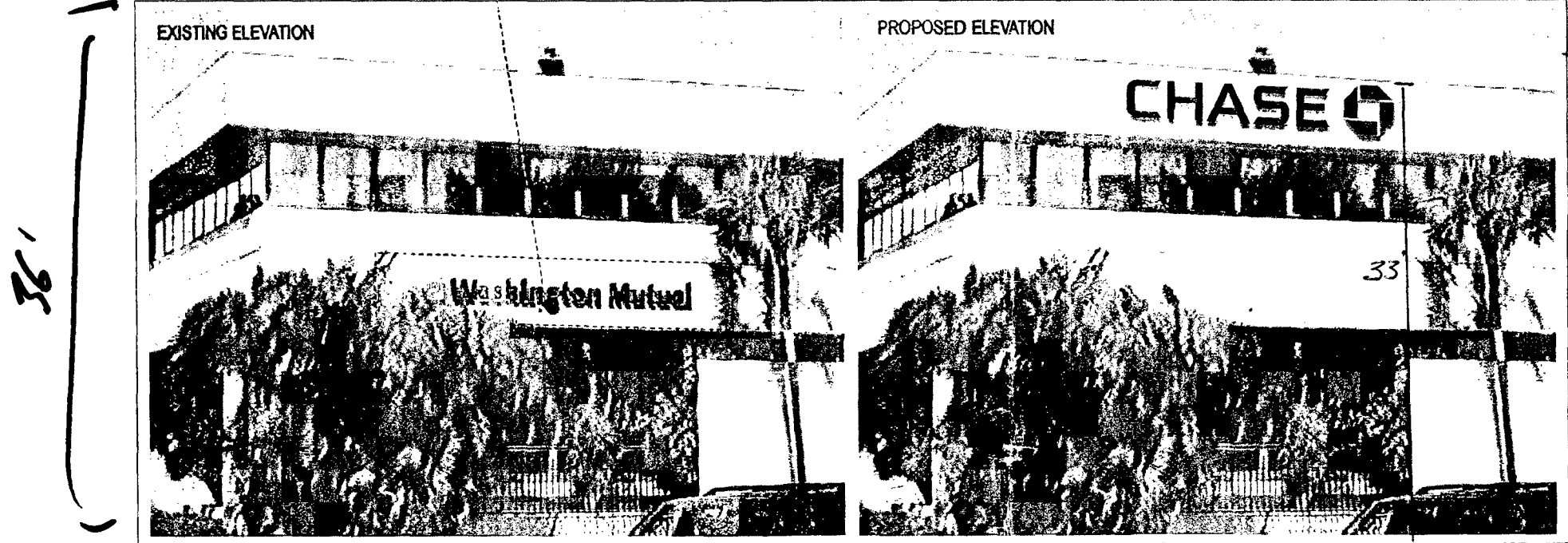
— WEEP HOLES (AS REQ'D)

OCTAGON - SIDE VIEW
SCALE: 1/4" = 1' 0"

5" 1/2" **OFFICE COPY**
1" METALLIC SILVER
CITY OF MIAMI BEACH

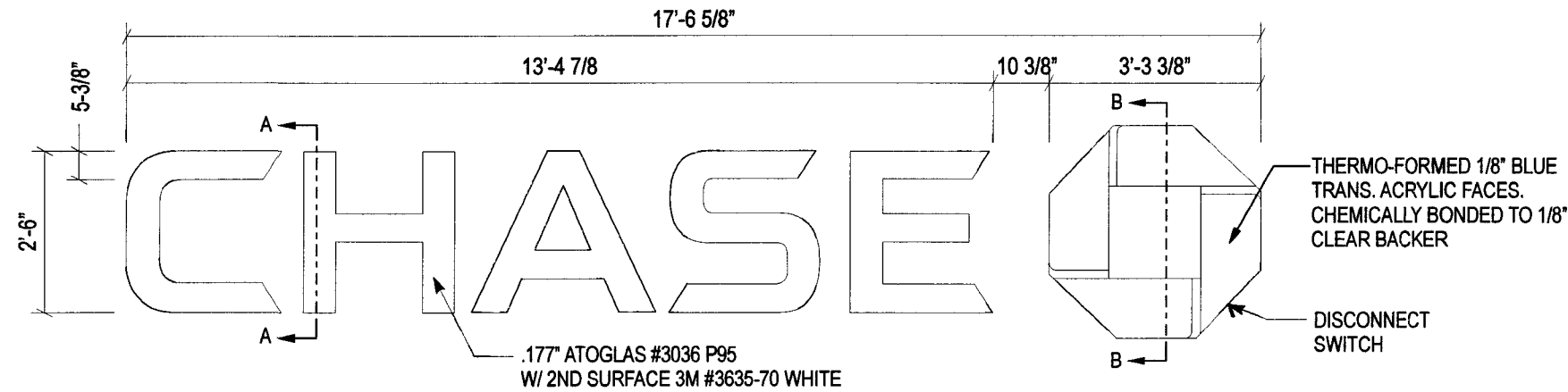
- PERMIT BY
DATE: 9/23/09
- ALLOWED FOR THE FOLLOWING:
- 090° ALUM. LETTER BACK & RETURNS EXTERIORS FINISHED MP-19891 NICKEL GLOSS W/ INTERIORS FINISHED WHITE.
 - DRB/HPB:
 - CONCURRENT: 1/2" STAND-OFF (AS REQ'D)
 - PLUMBING:
 - ELECTRICAL: WEEP HOLES (AS REQ'D)
 - MECHANICAL:
 - FIRE PREVENTION: LETTER - SIDE VIEW
 - ENGINEERING: SCALE: 1/4" = 1' 0"
 - PUBLIC WORKS:
 - STRUCTURAL: 7/7/09
 - ELEVATOR:

① CHANNEL LETTERS - LIF-BLK-30
SCALE: 1/4" = 1' 0"



SOUTH ELEVATION - LIF-BLK-30
Scale: NTS

SGN#1
WALL HEIGHT: 36'
WALL LENGTH: 181'
PROPOSED SIGN: 57 SF
36' WALL AREA: 6516



CHANNEL LETTERS (BLACK LTRS / BLUE OCTAGON) LIF-BLK-30-s (2) REQ'D
SCALE: 3/8" = 1' 0"

GENERAL NOTES:

- U.L. LISTED - FILE NUMBER E157099
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH "NEC" REF. SECTION 600
- ALL ELECTRICAL SIGN SECTIONS TO HAVE U.L. LABEL IN ACCORDANCE WITH "NEC" 600.3 AND MANUFACTURERS LABEL LOCATED NEXT TO DISCONNECT SWITCH
- ALL NON-CURRENT CARRYING METAL PARTS OF SIGN SHALL BE GROUNDED & BONDED IN ACCORDANCE WITH "NEC" 250
- ALL WIRING CONTAINED IN ENCLOSED AREAS WITH LAMPS SHALL BE FIXTURE RATED
- SPlicing OF CONDUCTORS SHALL BE MADE IN JUNCTION BOXES OR SIMILAR METAL ENCLOSURES
- AT THE POINT THAT ELECTRICAL CABLE PASSES THRU THE SIGN BOX, IT SHALL PASS THRU A U.L. LISTED RUBBER GROMMET

146 MPH WIND LOAD
IMPORTANCE FACTOR 1.0
EXPOSURE C
2007 FLORIDA BUILDING CODE
2009 SUPPLEMENT
SECTION 16 WIND LOAD
ASCE 7-05

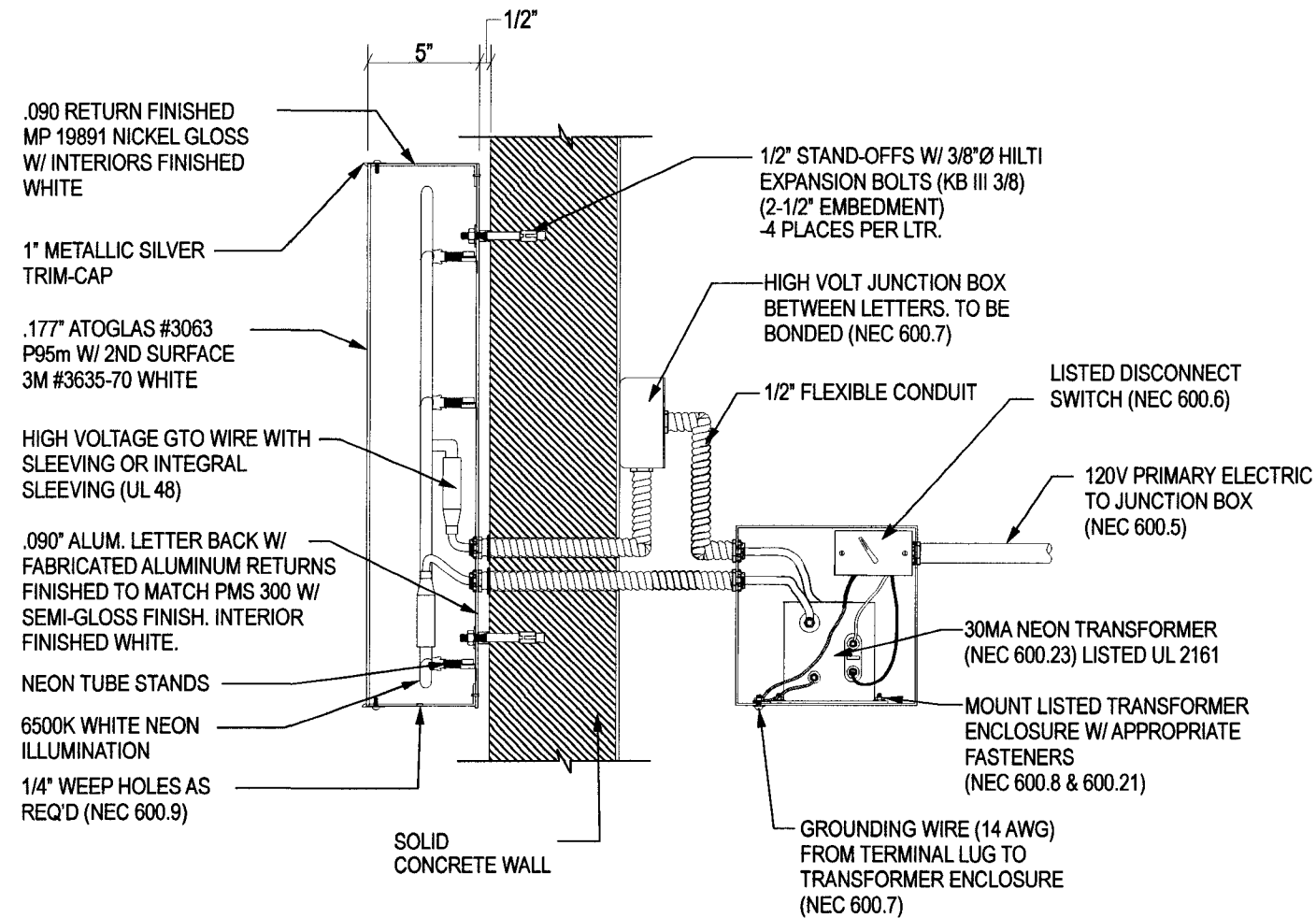
ENCON SERVICES, INC.
AARON BIEDENBACH
2272 JAUDON ROAD
DOVER, FL 33527
813-655-3373
FLPE #52949, FLEB #9394

SIGN MOUNTING HEIGHT TO BE 40FT MAXIMUM

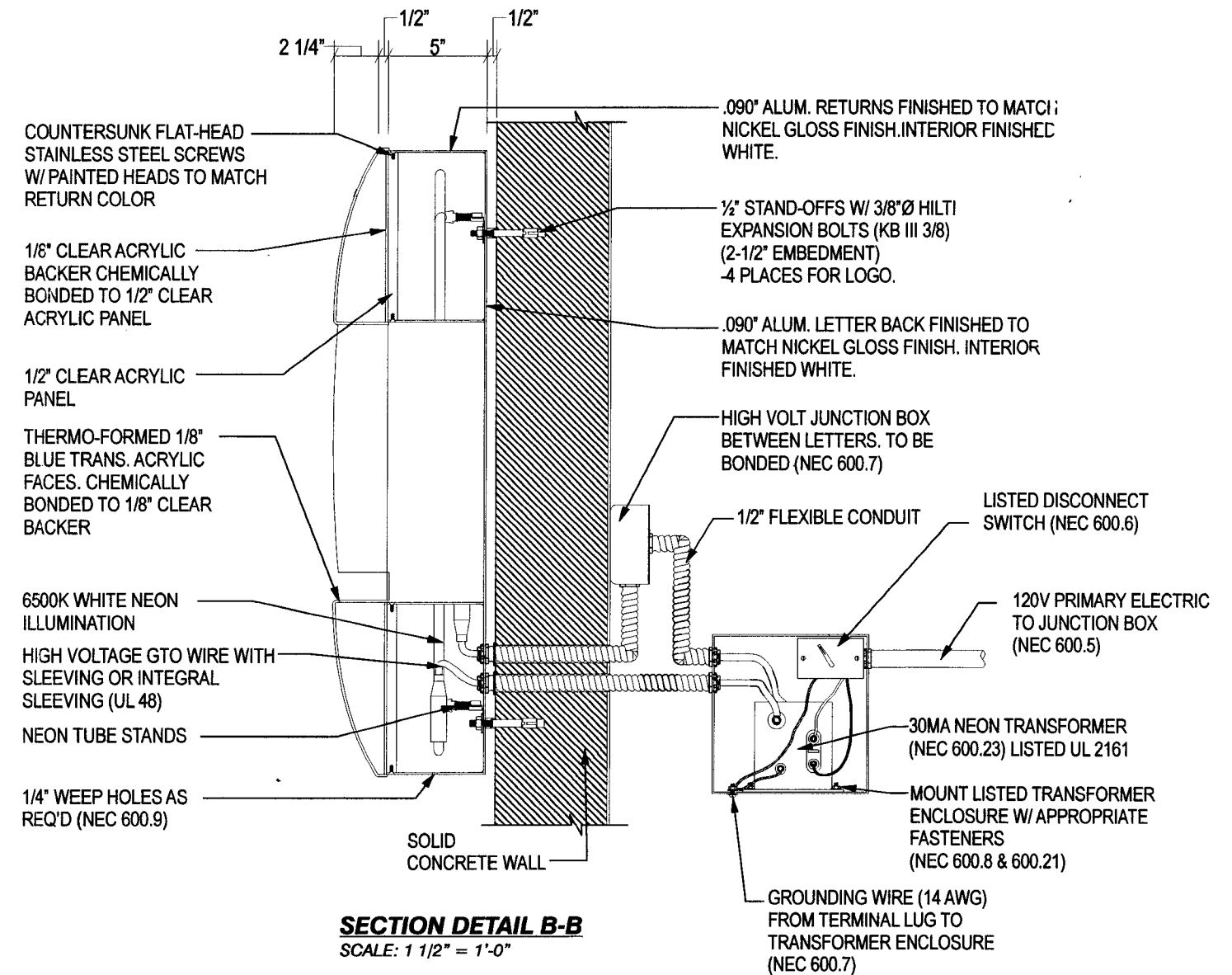
ESTIMATED SIGN WEIGHT

- 28 lbs. PER LETTER
- 52 lbs. PER LOGO

Handwritten signature/initials



SECTION DETAIL A-A
SCALE: 1 1/2" = 1'-0"



SECTION DETAIL B-B
SCALE: 1 1/2" = 1'-0"

EnCon Services, Inc.

Sign Design Calculations

Job Description

Chase Bank 1742

1801 Alton Rd.

Miami Beach, Florida

2'-6" Chase Letterset

Design per 2007 Florida Building Code, 2009 supplement, Section 16 Wind Load

ASCE 7-05

PREPARED BY: EnCon Services, Inc.

2272 Jaudon Road

Dover, FL 33527

813-655-3373

F 813-655-9814

Aaron Biedenbach, P.E.

FL PE #52949, FL EB 9394

OH PE 60756, OC #01893

KY PE #20281, P #2463

IN PE #PE 19600322

FL CBC #060535, QB #22527

Design Specifications

Importance Factor	1
Kzt	1
Exposure Factor	C
Kd	1
Kz	1.04
V	146 (mph)
GCp-GCpi	1.28 Zone 4, H < 60 Feet
Wind Pressure	72.6 (psf)

Sign Information Per Letter

Height	2.50 (ft)
Width	2.50 (ft)
Thickness	1.00 (ft)
Distance grade to top	40 (ft)

Wind Shear Force 181.61 (lb)

Weight of Sign 62.5 (lb)

Total Shear Force = 192.06 (lb)

Total Tension Force = 454.01 (lb)

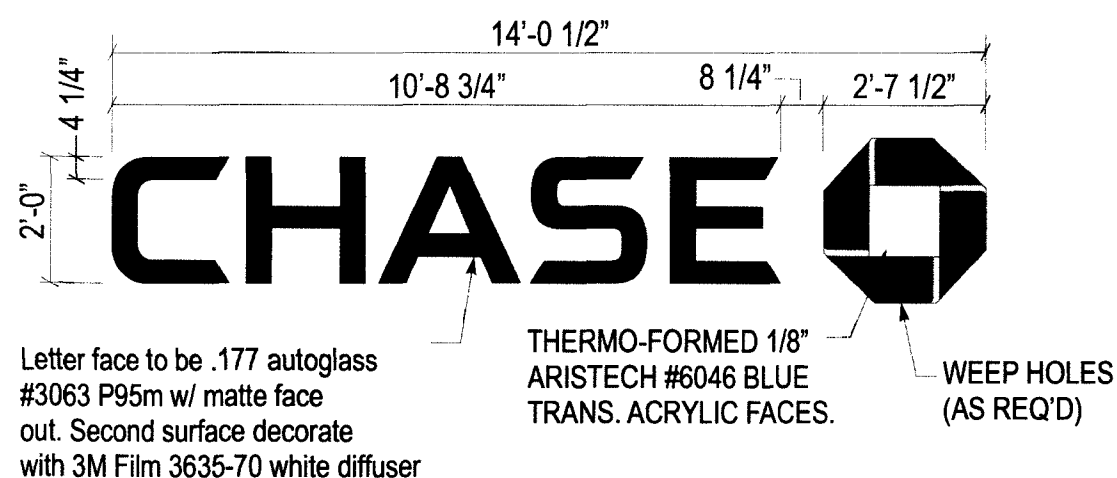
	Required	Provided
Fastener size (Nominal)	3/8	3/8
Minimum number of fasteners Per letter	4	4
Shear Force per fastener (lb)	48.0	280
Tension Force per fastener (lb)	113.5	352

Combination Tension and Shear ratio **0.49 < 1 O.K.**

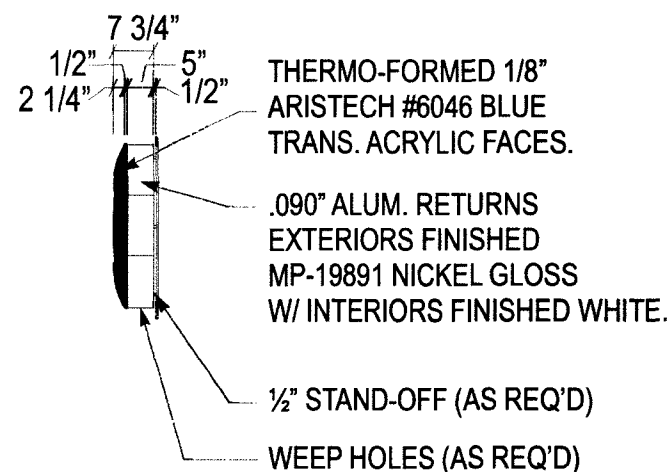
THREADED ROD THROUGH WALL IS PREFERRED IN ALL INSTANCES. IF IT IS NOT POSSIBLE TO USE THREADED ROD, SEE CHART BELOW FOR APPROPRIATE ANCHOR SELECTION. SIZE AND NUMBER REQUIRED ARE NOTED IN THE CHART ABOVE.

WALL STRUCTURE	ANCHOR TYPE
SOLID CONCRETE	HILTI KWIK BOLT 3 EXPANSION ANCHOR (2-1/2" EMBEDMENT)

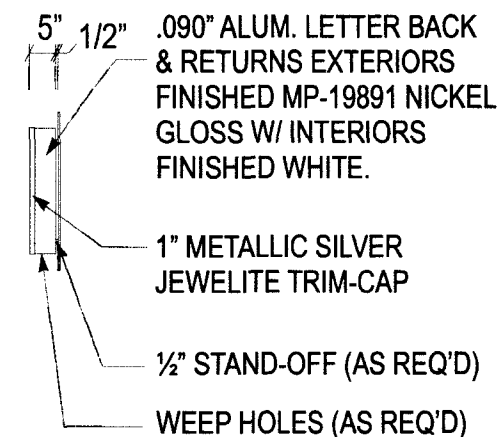
ALL ANCHORS SHALL BE CHOSEN AND PLACED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS



CHANNEL LETTERS LIF-BLK-24-s - ELEVATION
SCALE: 1/4" = 1' 0"

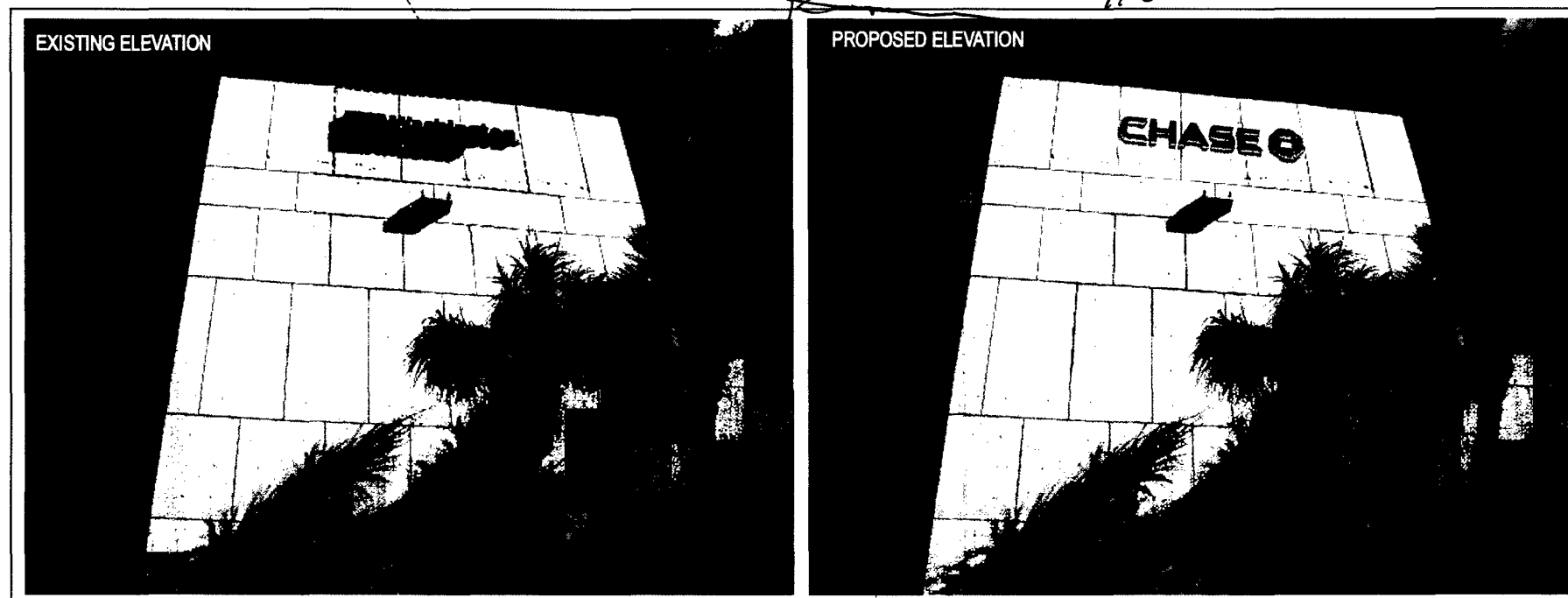


OCTAGON - SIDE VIEW
SCALE: 1/4" = 1' 0"



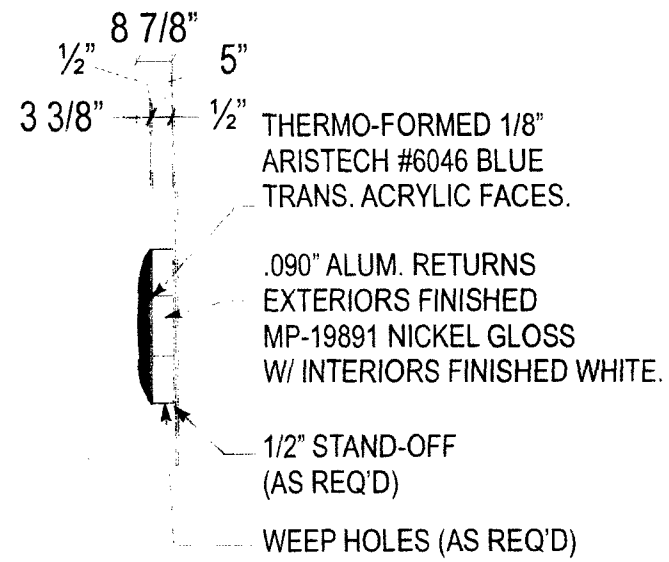
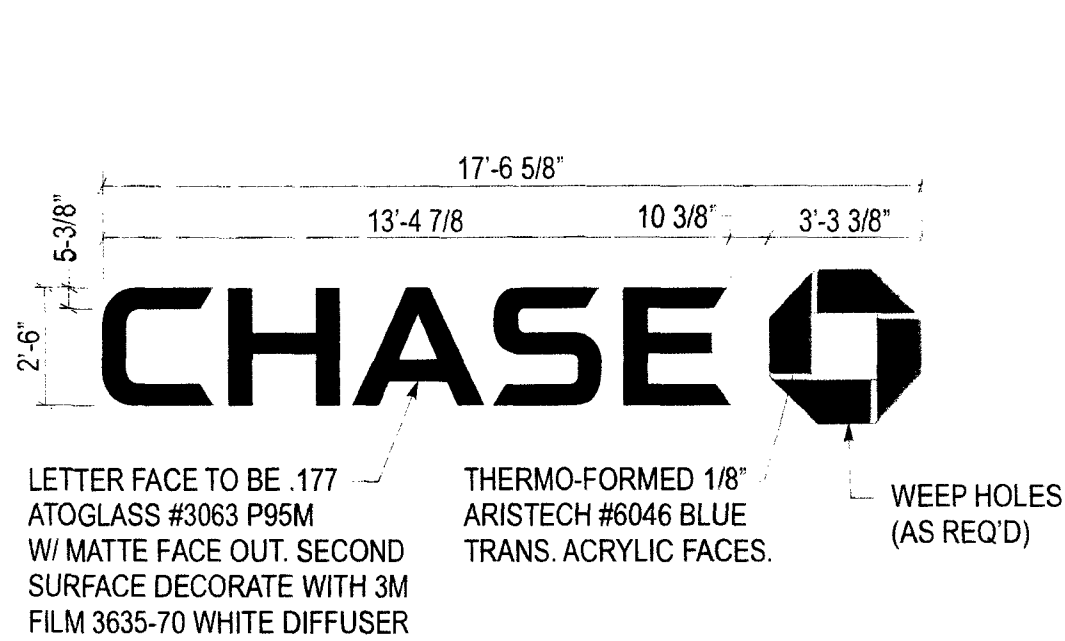
LETTER - SIDE VIEW
SCALE: 1/4" = 1' 0"

REMOVE-RESTORE - REMOVE AND RESTORE
SCALE: NTS

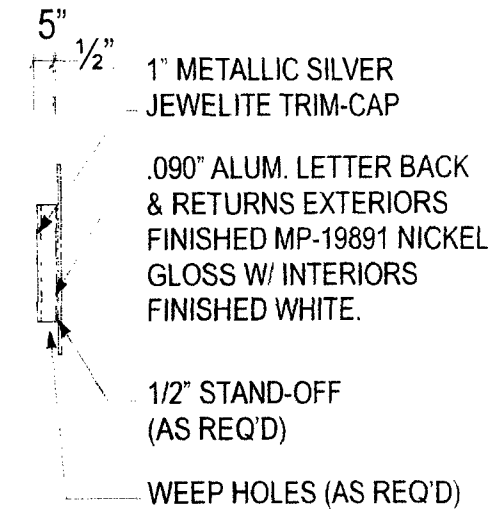


WEST ELEVATION - LIF-BLK-30
Scale: NTS

SIGN #2
WALL HEIGHT: 36'
WALL LENGTH: 110'
WALL AREA: 3960 sf
Proposed Sign Area: 37 sf



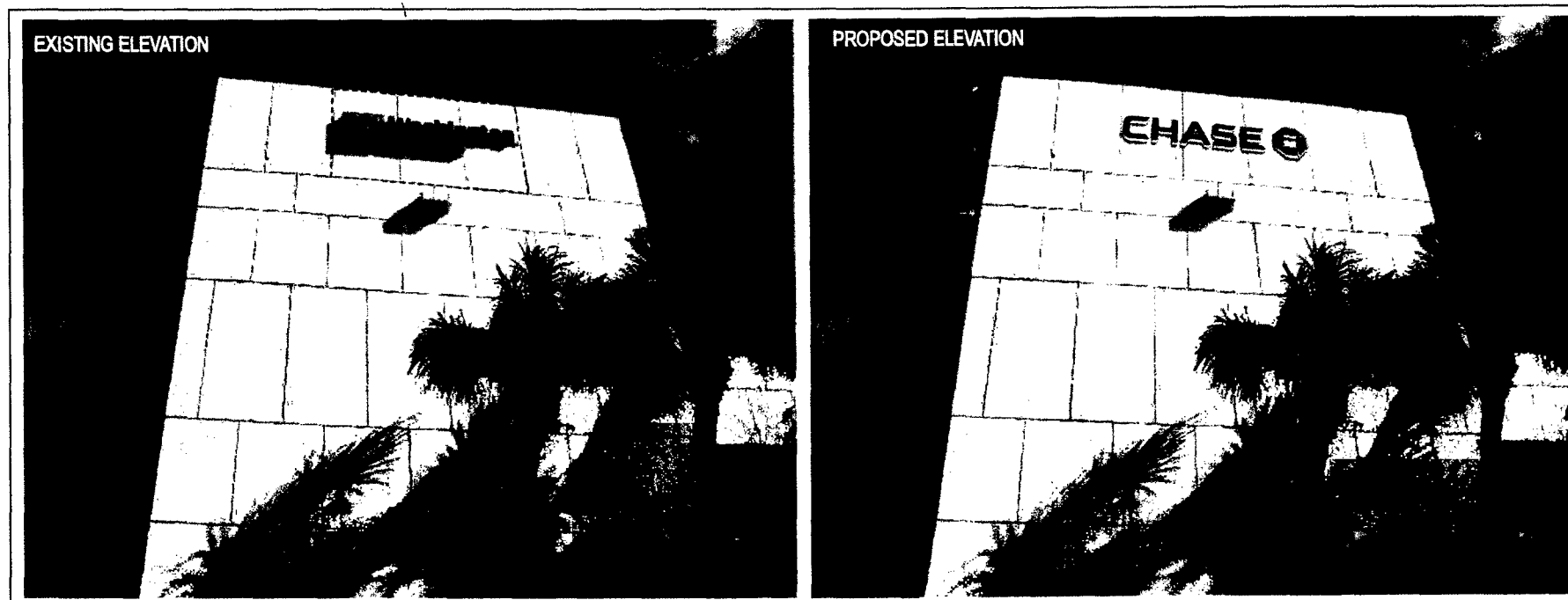
OCTAGON - SIDE VIEW
SCALE: 1/4" = 1' 0"



LETTER - SIDE VIEW
SCALE: 1/4" = 1' 0"

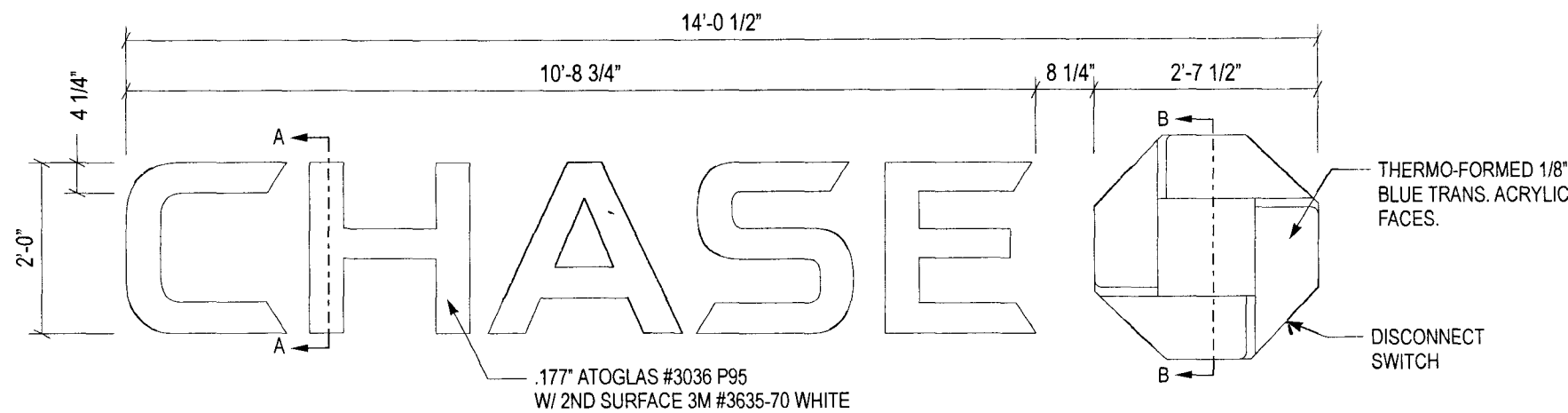
CHANNEL LETTERS- LIF-BLK-30-s - ELEVATION
SCALE: 1/4" = 1' 0"

REMOVE-RESTORE - REMOVE AND RESTORE
SCALE: NTS



WEST ELEVATION - LIF-BLK-30
Scale: NTS

SIGN 2
WALL HEIGHT: 36
WALL LENGTH: 110'
PROPOSED SIGN: 57 SF



GENERAL NOTES:

- U.L. LISTED - FILE NUMBER E157099
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH "NEC" REF. SECTION 600
- ALL ELECTRICAL SIGN SECTIONS TO HAVE U.L. LABEL IN ACCORDANCE WITH "NEC" 600.3 AND MANUFACTURERS LABEL LOCATED NEXT TO DISCONNECT SWITCH
- ALL NON-CURRENT CARRYING METAL PARTS OF SIGN SHALL BE GROUNDED & BONDED IN ACCORDANCE WITH "NEC" 250
- ALL WIRING CONTAINED IN ENCLOSED AREAS WITH LAMPS SHALL BE FIXTURE RATED
- SPlicing OF CONDUCTORS SHALL BE MADE IN JUNCTION BOXES OR SIMILAR METAL ENCLOSURES AT THE POINT THAT ELECTRICAL CABLE PASSES THRU THE SIGN BOX, IT SHALL PASS THRU A U.L. LISTED RUBBER GROMMET

146 MPH WIND LOAD
IMPORTANCE FACTOR 1.0
EXPOSURE C
2007 FLORIDA BUILDING CODE
2009 SUPPLEMENT
SECTION 16 WIND LOAD
ASCE 7-05

ENCON SERVICES, INC.
AARON BIEDENBACH
2272 JAUDON ROAD
DOVER, FL 33527
813-655-3373
FLPE #52949, FLEB #9394

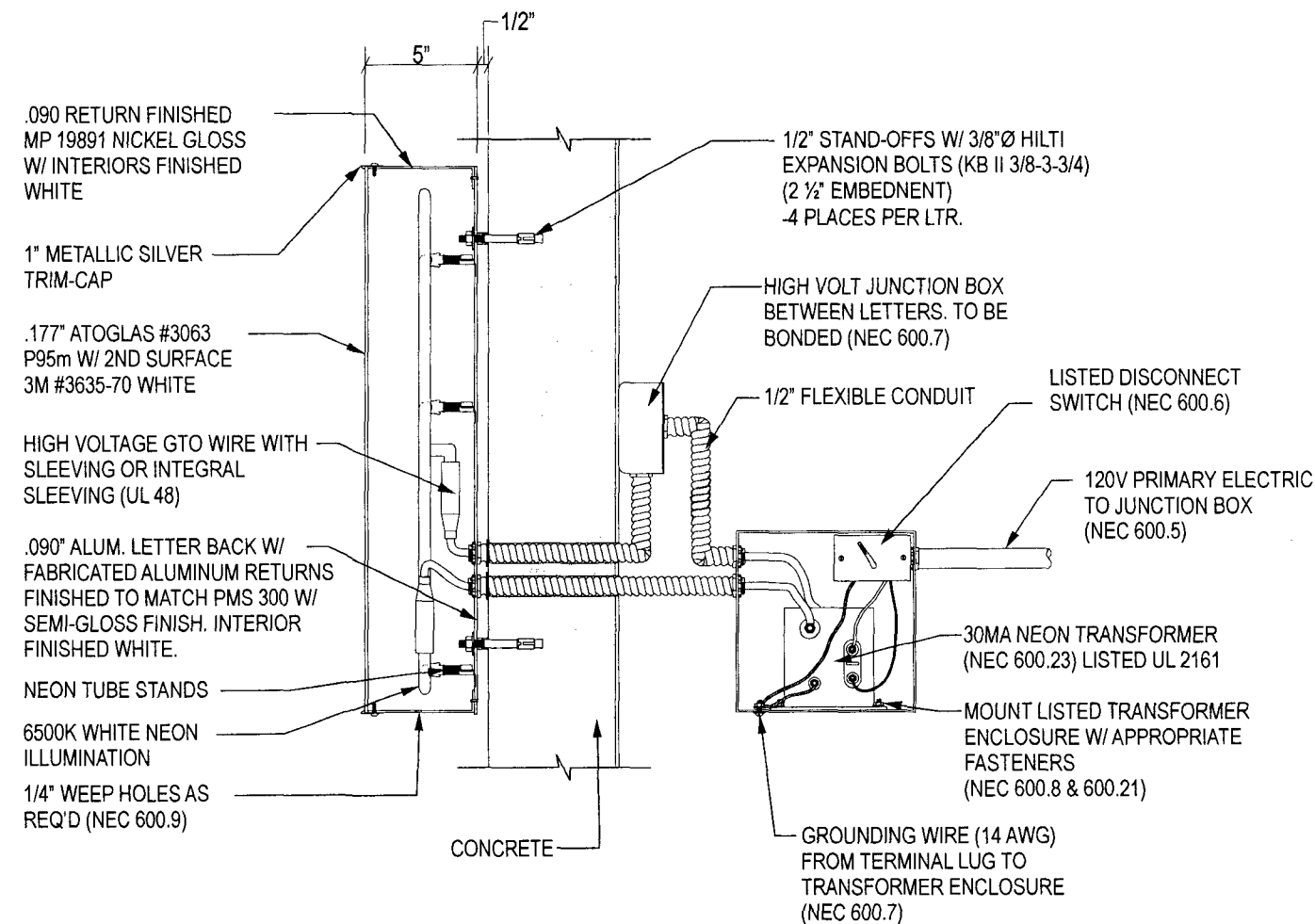
ESTIMATED SIGN WEIGHT

- 16 lbs. PER LETTER
- 32 lbs. PER LOGO

Handwritten signature/initials

CHANNEL LETTERS (BLACK LTRS / BLUE OCTAGON) LIF-BLK-24-s - ELEVATION - (3) REQ'D

SCALE: 1/2" = 1'-0"

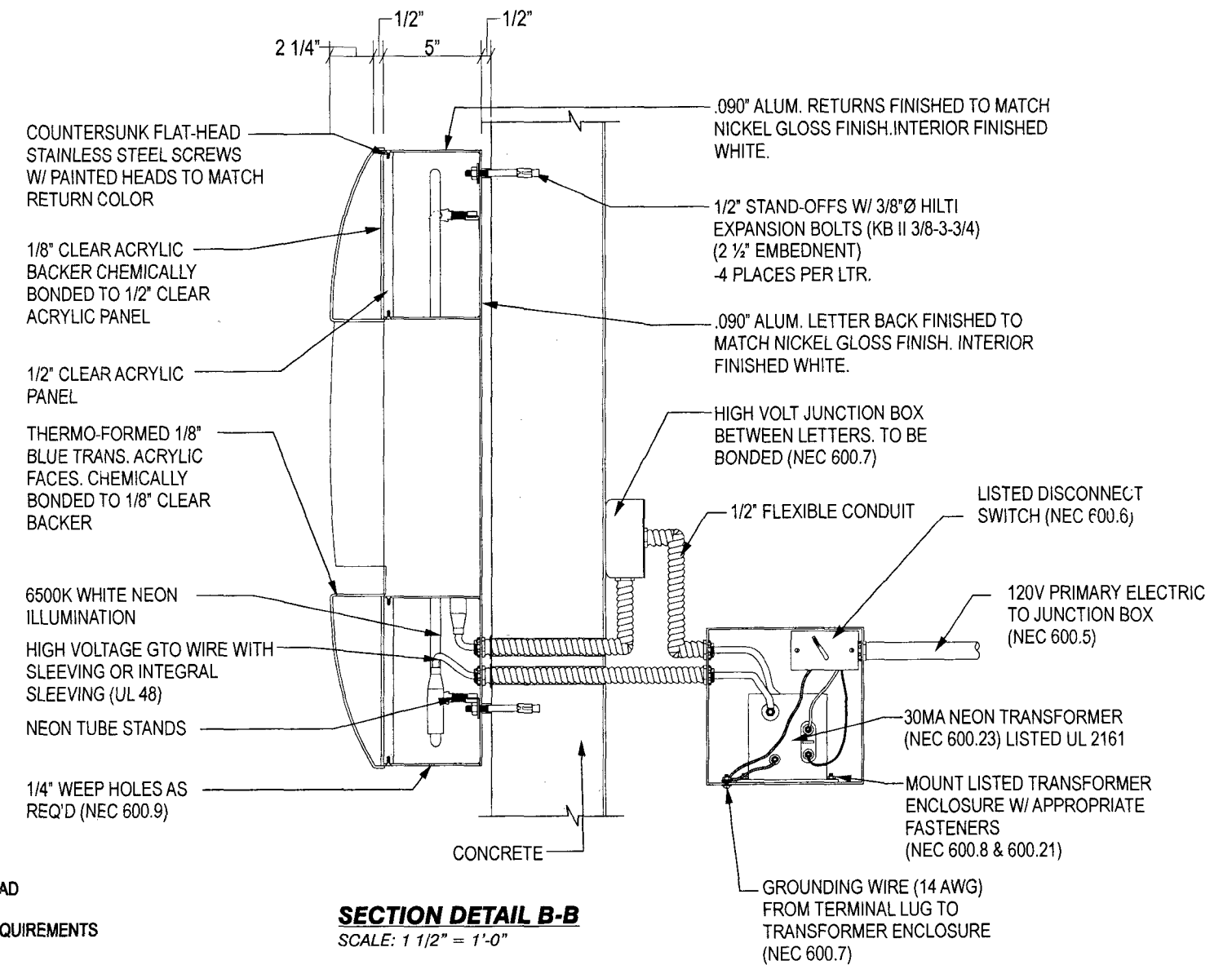


SECTION DETAIL A-A

SCALE: 1 1/2" = 1'-0"

ESTIMATED ELECTRICAL LOAD

6.3A @ 120VAC
ESTIMATED ELECTRICAL REQUIREMENTS
(1)20A circuit @ 120VAC



SECTION DETAIL B-B

SCALE: 1 1/2" = 1'-0"

EnCon Services, Inc.

Sign Design Calculations

Job Description

Chase Bank 1758
940 Ives Dairy Road
Miami, FL
2'-0" letterset

Design per 2007 Florida Building Code, 2009 supplement, Section 16 Wind Load
ASCE 7-05

PREPARED BY: EnCon Services, Inc.

2272 Jaudon Road
Dover, FL 33527
813-655-3373
F 813-655-9814

Aaron Biedenbach, P.E.

FL PE #52949, FL EB 9394
OH PE 60756, OC #01893
KY PE #20281, P #2463
IN PE #PE 19600322
FL CBC #060535, QB #22527

Design Specifications

Importance Factor	1
Kzt	1
Exposure Factor	C
Kd	1
Kz	0.98
V	146 mph
GCp-GCpi	1.28 Zone 4, h < 60
Wind Pressure	68.5 (psf)

Sign Information per Letter

Height	2.00 (ft)
Width	2.00 (ft)
Thickness	1.00 (ft)
Distance grade to top	30 (ft)

Wind Sheer Force 136.90 (lb)
Weight of Sign 32 (lb)

Total Sheer Force = 140.59 (lb)

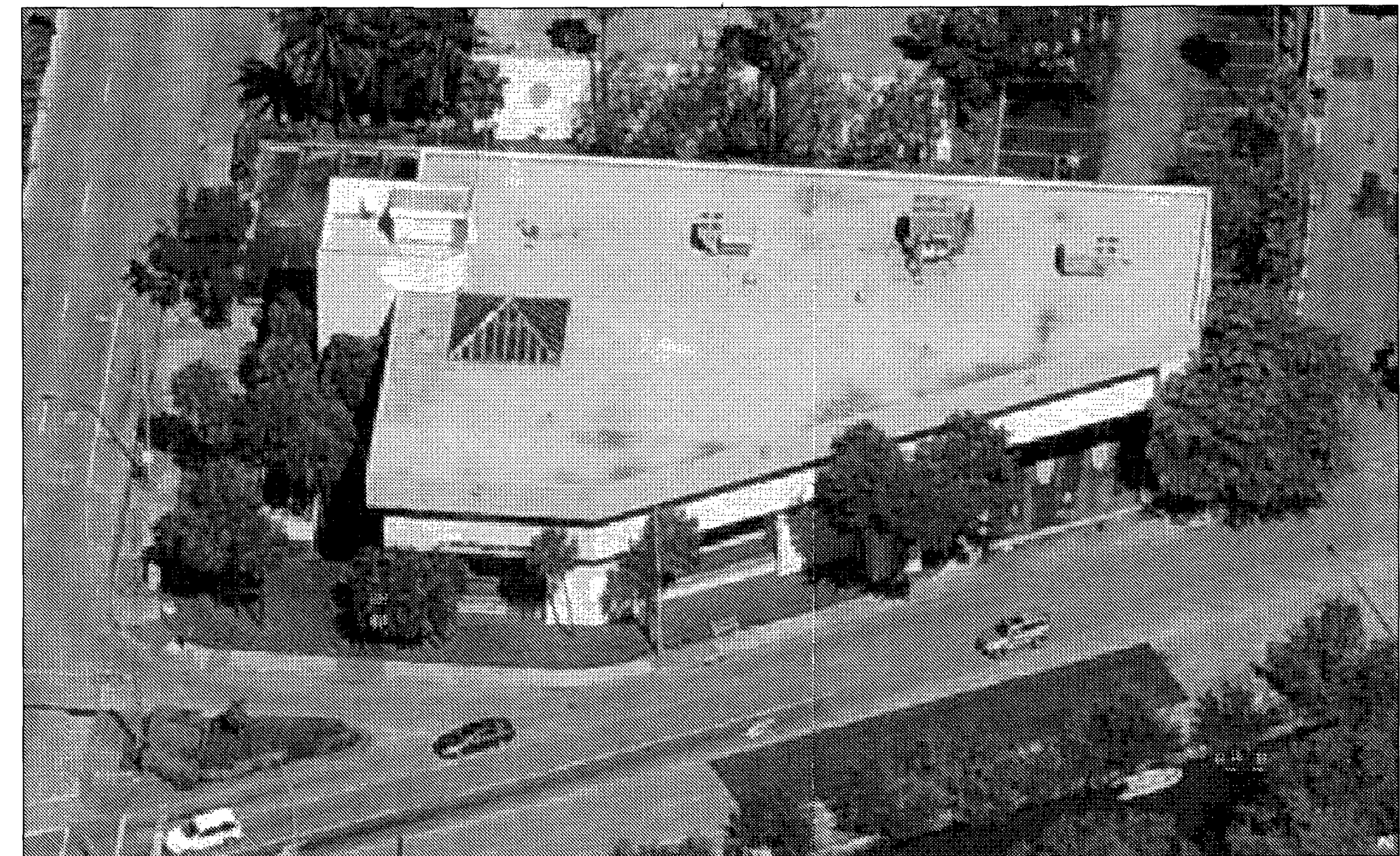
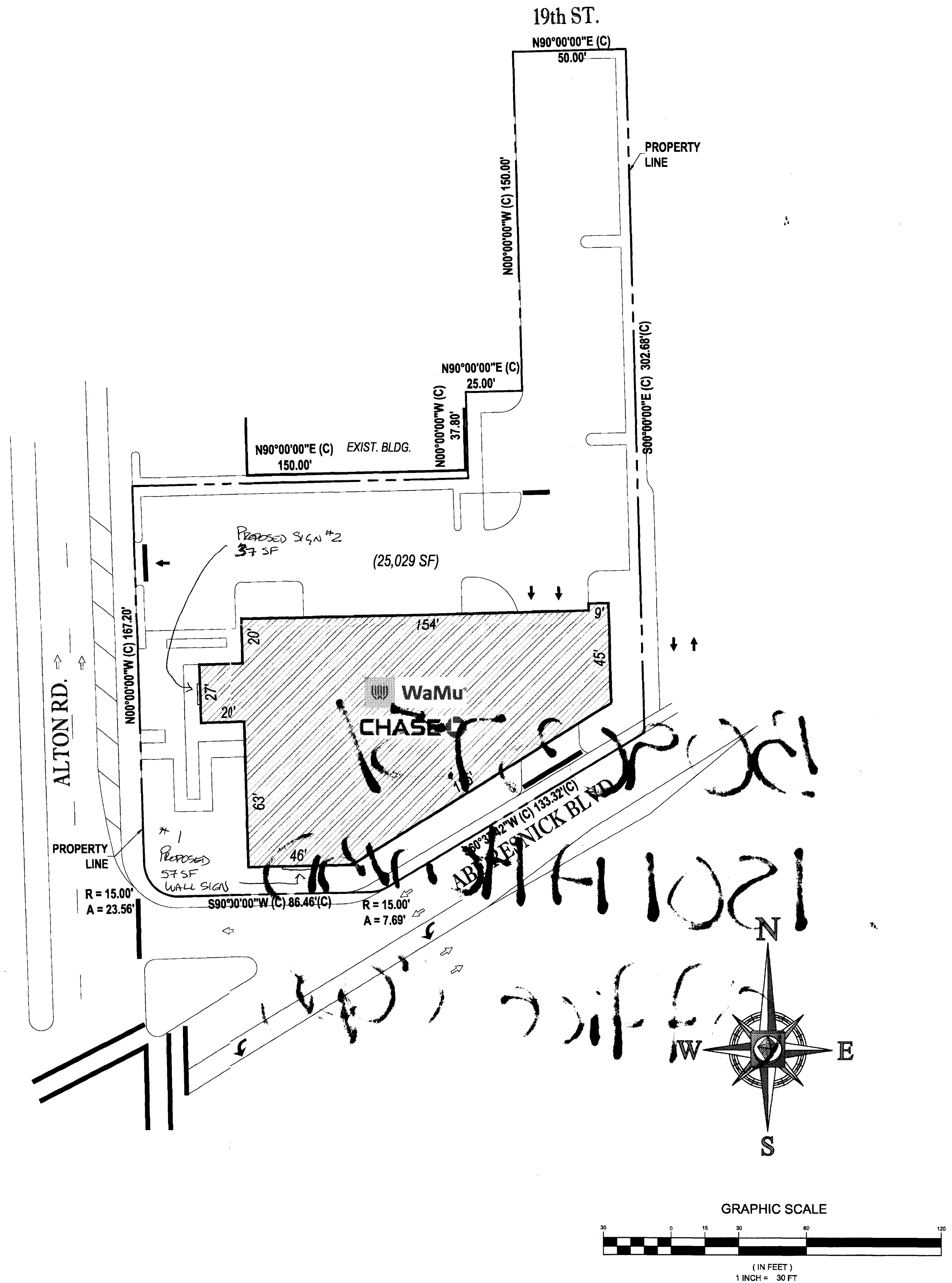
Total Tension Force = 273.81 (lb)

	Required	Provided
Fastener size (Nominal)	3/8	3/8
Minimum number of fasteners per letter	4	4
Sheer Force per fastener (lb)	35.1	280
Tension Force per fastener (lb)	68.5	352

Combination Tension and Sheer ratio **0.32 < 1 O.K.**

WALL STRUCTURE	ANCHOR TYPE
SOLID CONCRETE	HILTI KBII EXPANSION ANCHOR (2-1/2" EMBEDMENT)

ALL ANCHORS SHALL BE CHOSEN AND PLACED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS



SOUTHERN VIEW OF SITE
NOT TO SCALE

WAMU BUILDING ID #1924
1801 ALTON RD.
MIAMI BEACH, FL 33139

LEGAL DESCRIPTION:
A PORTION OF:
THE EAST 50 FEET OF LOT 6, LOT 10, LESS THE NORTH 2.8 FEET THEREOF, AND LOT 11, IN BLOCK 11 OF "ISLAND VIEW SUBDIVISION", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 6, AT PAGE 115 OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

- NOTES:
1. THIS PLAN WAS PREPARED BASED ON A SPECIFIC PURPOSE SURVEY PREPARED BY PINNELL SURVEY, INC.
 2. NO FREESTANDING SIGN LOCATED ON BANK PARCEL.

DATE: 9/23/09
ELEVATOR: [Signature]
[Signature]

BOHLER ENGINEERING

CORPORATE OFFICE:
♦ WARREN, NJ

OFFICES:
♦ SOUTH BRIDGE, MA
♦ BOWEN MD
♦ FORT LAUDERDALE, FL
♦ PURCHASE, NY
♦ CHANTON, PA
♦ CENTER VALLEY, PA

CIVIL & CONSULTING ENGINEERS
SURVEYORS
PROJECT MANAGERS
ENVIRONMENTAL CONSULTANTS
LANDSCAPE ARCHITECTS

REVISIONS:			
REV.	DATE	COMMENT	BY

NOT APPROVED FOR CONSTRUCTION

PROJECT No.:
DRAWN BY: JMG
DATE: 12/30/08
SCALE: AS NOTED
CAD I.D.: SIGN-EXHIBIT-54

PROJECT:
**MIAMI BEACH/
ALTON ROAD
LOCATION**

FOR
**WAMU
BANK
#1924**

1801 ALTON RD.
CITY OF MIAMI BEACH
MIAMI-DADE COUNTY
FLORIDA

BOHLER ENGINEERING

RADICE III
1000 CORPORATE DRIVE, SUITE 250
FORT LAUDERDALE, FL 33334
PH: (954) 202-7000
FX: (954) 202-7070
www.BohlerEngineering.com

JASON M. GUNTHER
PROFESSIONAL ENGINEER
February 8, 2008
FLORIDA LICENSE No. 58629
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:
SIGN EXHIBIT

SHEET NUMBER:
1
OF 1

BOHLER ID #54

Printed on Friday, February 05, 2009, 8:51 AM by Cesar Delgado@bohler.com
C:\NAME=WAMU REMAINS\MAMI-DADE COUNTY\SA-1124 MIAMI BEACH-ALTON ROAD\SIGN-EXHIBIT-54-----4-KAYOUT: #1924

In addition to the requirements of this permit, there may be other applicable regulations, codes, ordinances, rules, and regulations that may apply to the proposed project. The applicant is responsible for obtaining and complying with all applicable regulations, codes, ordinances, rules, and regulations. The engineer is not responsible for any such regulations, codes, ordinances, rules, and regulations.

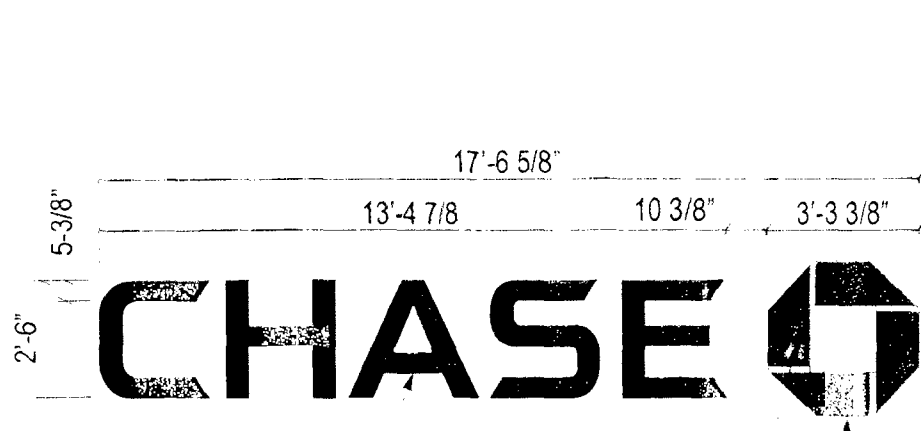
ALL DIMENSIONS AND BEARINGS ARE TO THE PROPERTY LINE UNLESS OTHERWISE NOTED.

BO90375/
1801 A HUNTER
Office Copy

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

MECHANICAL:	_____
ZONING:	_____
LAND USE:	_____
CONCURRENCE:	_____
PLUMBING:	_____
ELECTRICAL:	_____
MUNICIPAL:	_____
FIRE DEPARTMENT:	_____
ENGINEERING:	_____
PAVING:	_____
SEWER:	_____
ELEVATOR:	_____

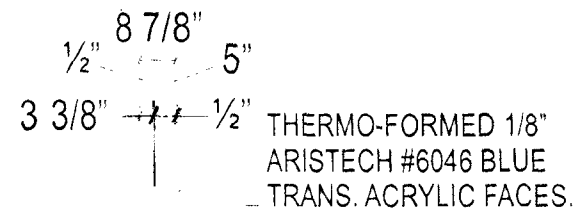
Perez 7/7/09 / Fern 9/25/09



LETTER FACE TO BE .177
ATOGLASS #3063 P95M
W/ MATTE FACE OUT. SECOND
SURFACE DECORATE WITH 3M
FILM 3635-70 WHITE DIFFUSER

THERMO-FORMED 1/8"
ARISTECH #6046 BLUE
TRANS. ACRYLIC FACES.

— WEEP HOLES
(AS REQ'D)



.090" ALUM. RETURNS
EXTERIORS FINISHED
MP-19891 NICKEL GLOSS
W/ INTERIORS FINISHED WHITE.

1/2" STAND-OFF
(AS REQ'D)

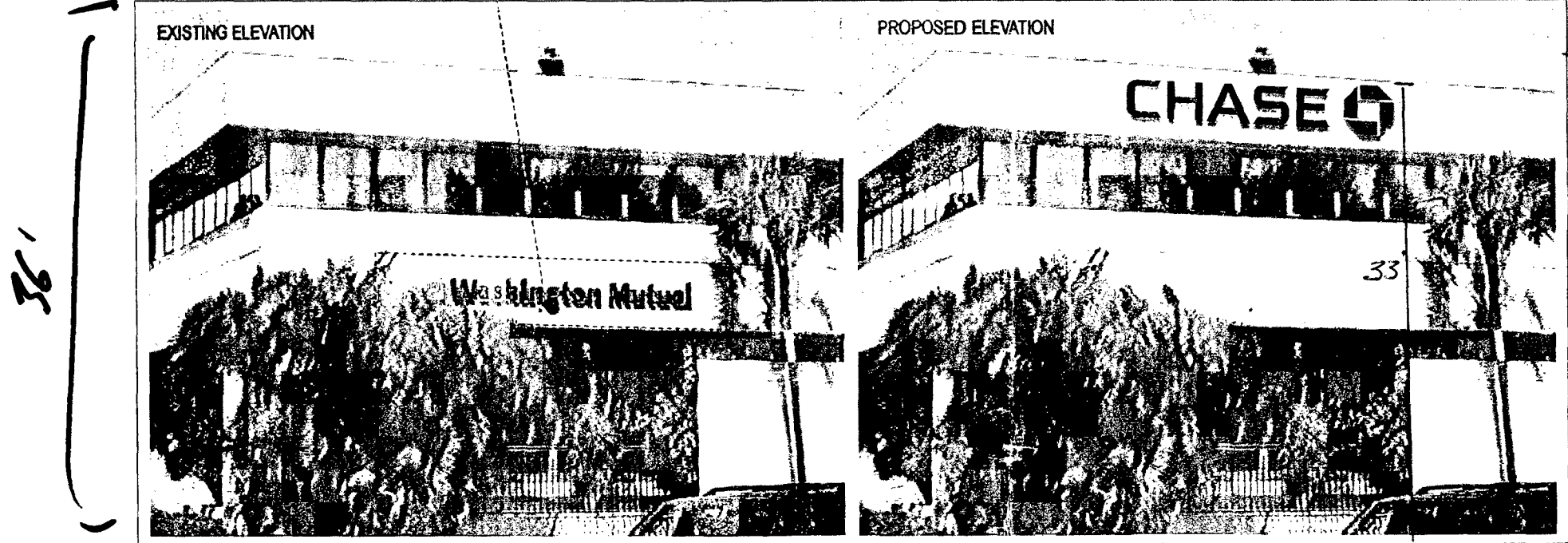
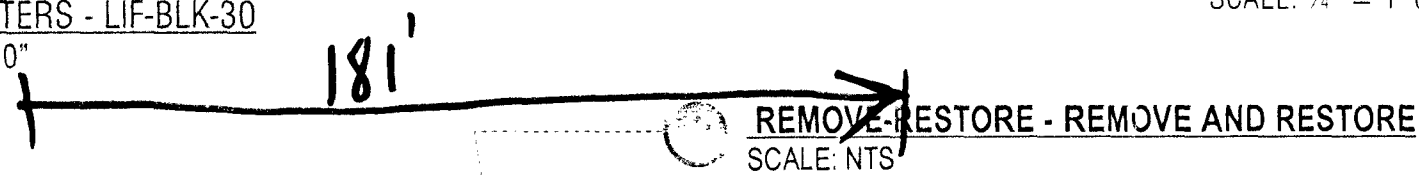
— WEEP HOLES (AS REQ'D)

OCTAGON - SIDE VIEW
SCALE: 1/4" = 1' 0"

5" 1/2" OFFICE COPY
1" METALLIC SILVER
CITY OF MIAMI BEACH

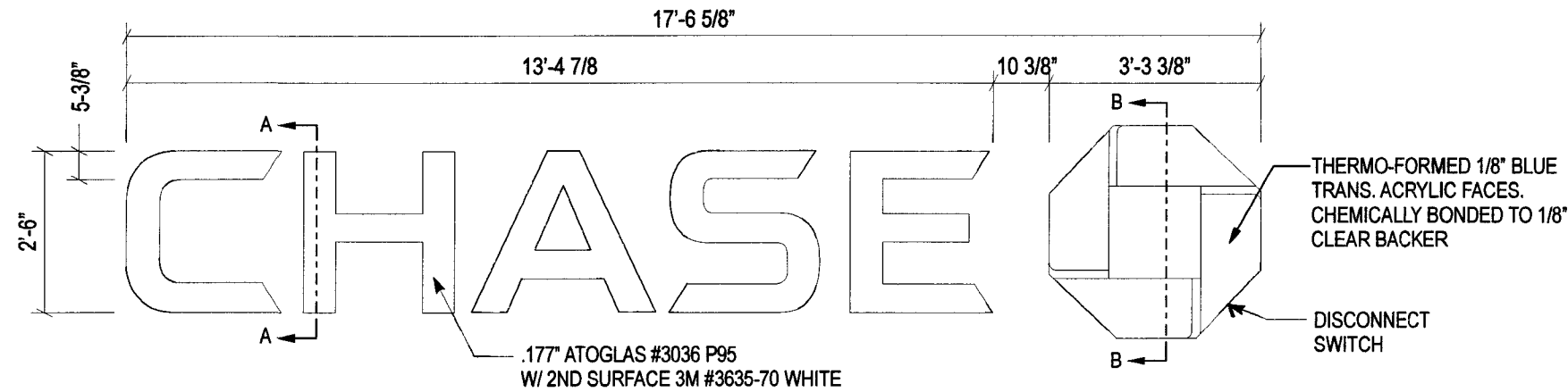
- PERMIT BY
FOLLOWING:
- 090" ALUM. LETTER BACK & RETURNS EXTERIORS FINISHED MP-19891 NICKEL GLOSS W/ INTERIORS FINISHED WHITE. *9/23/09*
 - DRB/HPB: _____
 - CONCRETE: _____
 - PLUMBING: _____
 - ELECTRICAL: _____
 - MECHANICAL: _____
 - FIRE PREVENTION: _____
 - ENGINEERING: _____
 - PUBLIC WORKS: _____
 - STRUCTURAL: *Perer 7/7/09*
 - ELEVATOR: _____

① CHANNEL LETTERS - LIF-BLK-30
SCALE: 1/4" = 1' 0"



SOUTH ELEVATION - LIF-BLK-30
Scale: NTS

SGN#1
WALL HEIGHT: 36'
WALL LENGTH: 181'
PROPOSED SIGN: 57 SF
36' WALL AREA: 6516



CHANNEL LETTERS (BLACK LTRS / BLUE OCTAGON) LIF-BLK-30-s (2) REQ'D
SCALE: 3/8" = 1'-0"

GENERAL NOTES:

- U.L. LISTED - FILE NUMBER E157099
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH "NEC" REF. SECTION 600
- ALL ELECTRICAL SIGN SECTIONS TO HAVE U.L. LABEL IN ACCORDANCE WITH "NEC" 600.3 AND MANUFACTURERS LABEL LOCATED NEXT TO DISCONNECT SWITCH
- ALL NON-CURRENT CARRYING METAL PARTS OF SIGN SHALL BE GROUNDED & BONDED IN ACCORDANCE WITH "NEC" 250
- ALL WIRING CONTAINED IN ENCLOSED AREAS WITH LAMPS SHALL BE FIXTURE RATED
- SPlicing OF CONDUCTORS SHALL BE MADE IN JUNCTION BOXES OR SIMILAR METAL ENCLOSURES
- AT THE POINT THAT ELECTRICAL CABLE PASSES THRU THE SIGN BOX, IT SHALL PASS THRU A U.L. LISTED RUBBER GROMMET

146 MPH WIND LOAD
IMPORTANCE FACTOR 1.0
EXPOSURE C
2007 FLORIDA BUILDING CODE
2009 SUPPLEMENT
SECTION 16 WIND LOAD
ASCE 7-05

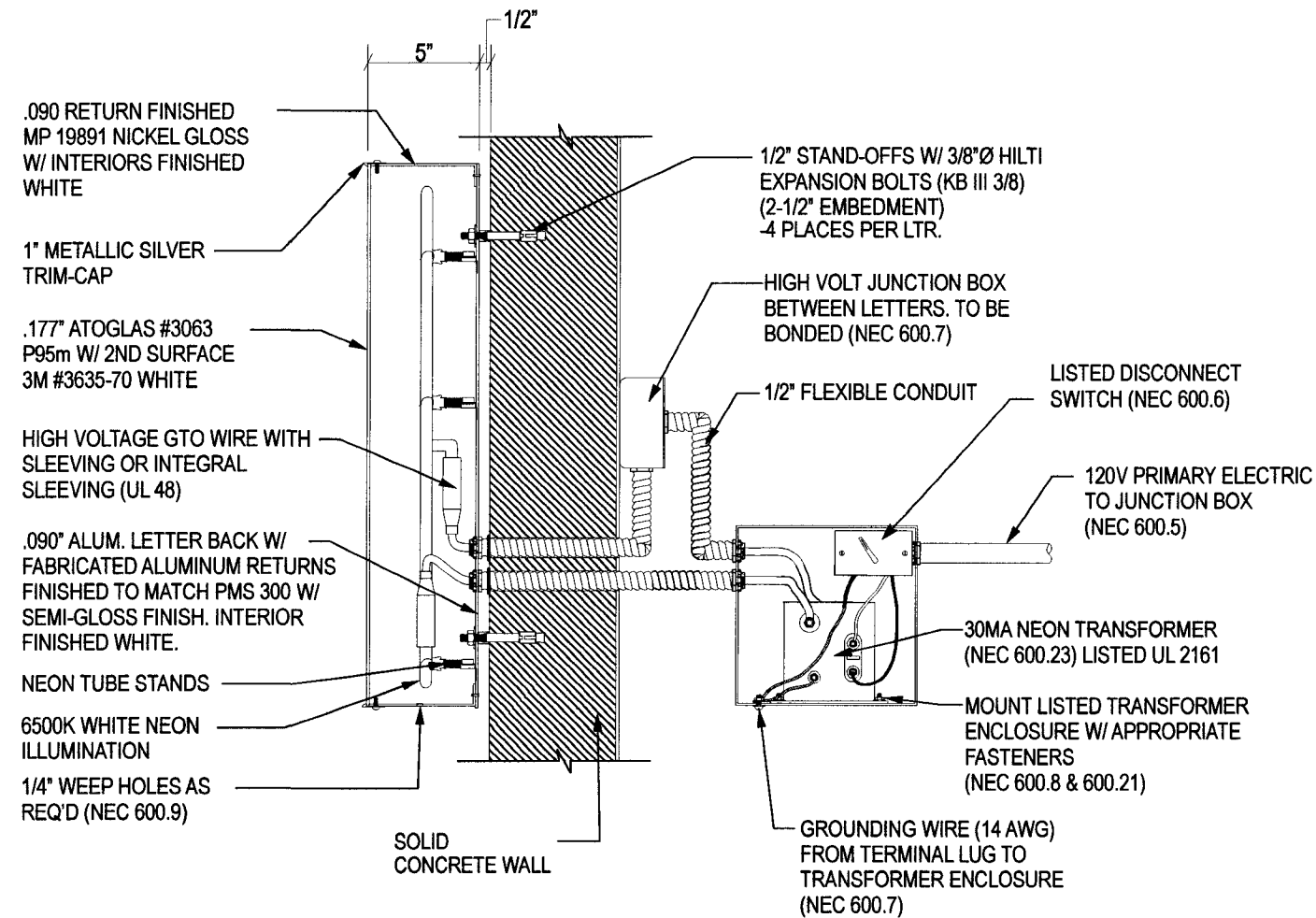
ENCON SERVICES, INC.
AARON BIEDENBACH
2272 JAUDON ROAD
DOVER, FL 33527
813-655-3373
FLPE #52949, FLEB #9394

SIGN MOUNTING HEIGHT TO BE 40FT MAXIMUM

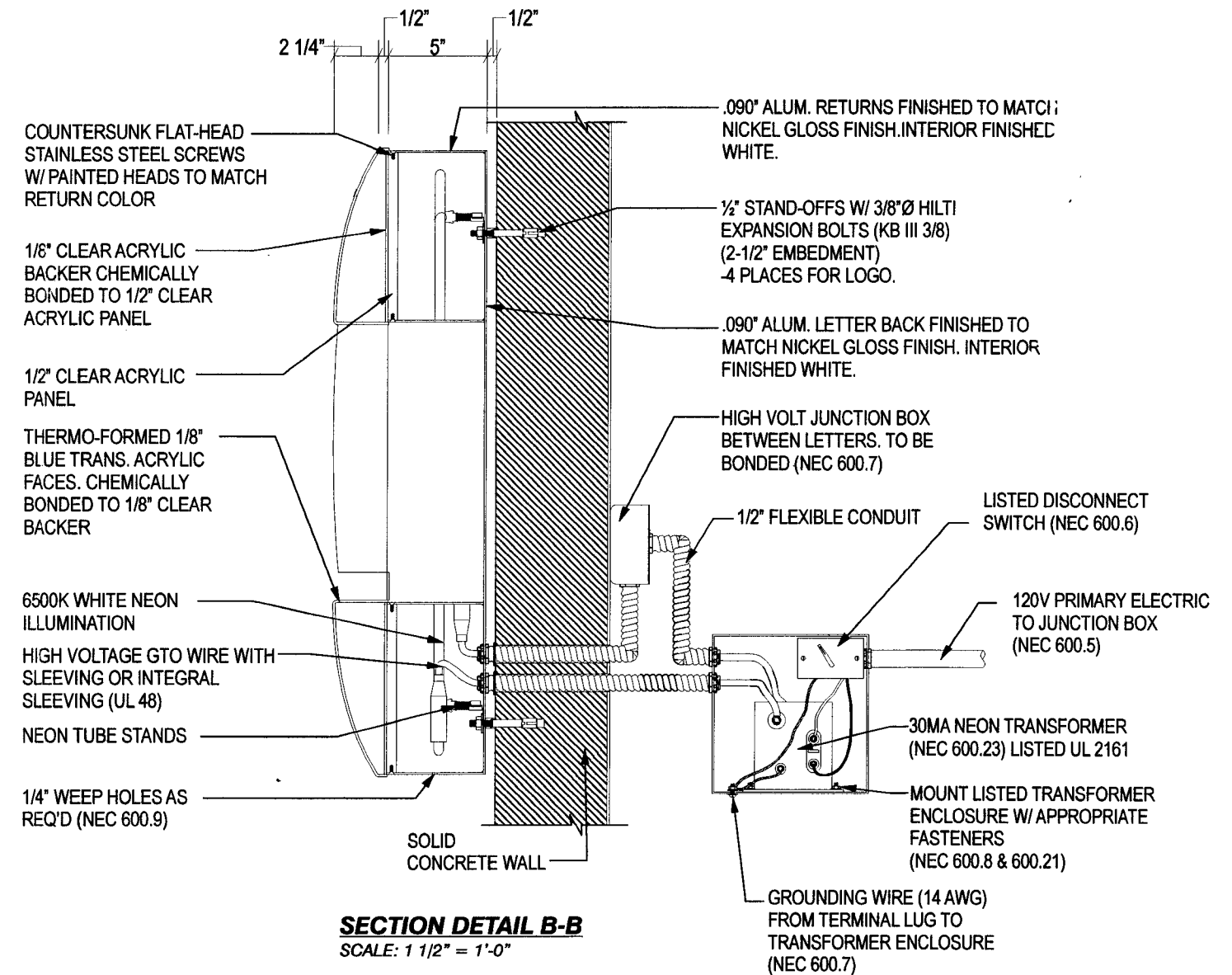
ESTIMATED SIGN WEIGHT

- 28 lbs. PER LETTER
- 52 lbs. PER LOGO

Handwritten signature/initials



SECTION DETAIL A-A
SCALE: 1 1/2" = 1'-0"



SECTION DETAIL B-B
SCALE: 1 1/2" = 1'-0"

EnCon Services, Inc.

Sign Design Calculations

Job Description

Chase Bank 1742

1801 Alton Rd.

Miami Beach, Florida

2'-6" Chase Letterset

Design per 2007 Florida Building Code, 2009 supplement, Section 16 Wind Load

ASCE 7-05

PREPARED BY: EnCon Services, Inc.

2272 Jaudon Road

Dover, FL 33527

813-655-3373

F 813-655-9814

Aaron Biedenbach, P.E.

FL PE #52949, FL EB 9394

OH PE 60756, OC #01893

KY PE #20281, P #2463

IN PE #PE 19600322

FL CBC #060535, QB #22527

Design Specifications

Importance Factor	1
Kzt	1
Exposure Factor	C
Kd	1
Kz	1.04
V	146 (mph)
GCp-GCpi	1.28 Zone 4, H < 60 Feet
Wind Pressure	72.6 (psf)

Sign Information Per Letter

Height	2.50 (ft)
Width	2.50 (ft)
Thickness	1.00 (ft)
Distance grade to top	40 (ft)

Wind Shear Force 181.61 (lb)

Weight of Sign 62.5 (lb)

Total Shear Force = 192.06 (lb)

Total Tension Force = 454.01 (lb)

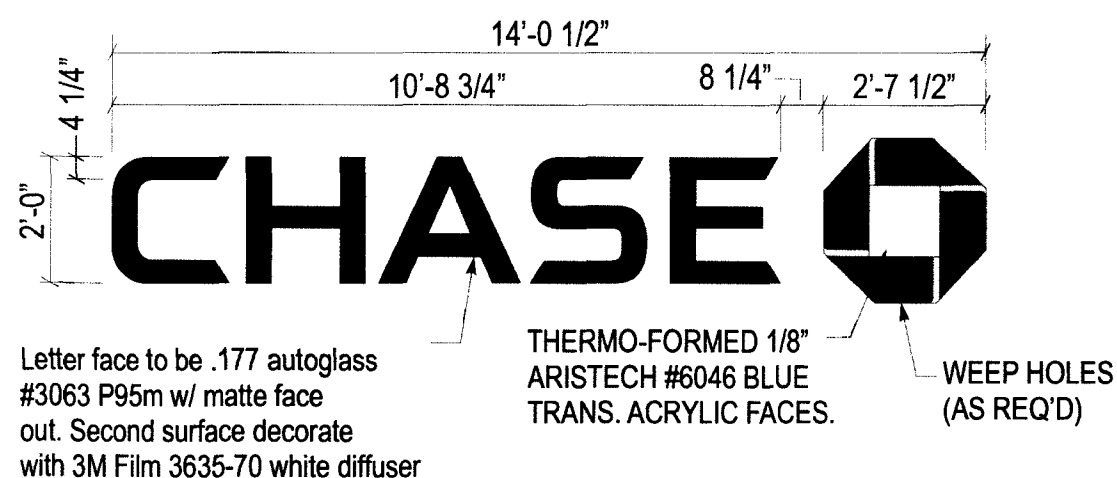
	Required	Provided
Fastener size (Nominal)	3/8	3/8
Minimum number of fasteners Per letter	4	4
Shear Force per fastener (lb)	48.0	280
Tension Force per fastener (lb)	113.5	352

Combination Tension and Shear ratio **0.49 < 1 O.K.**

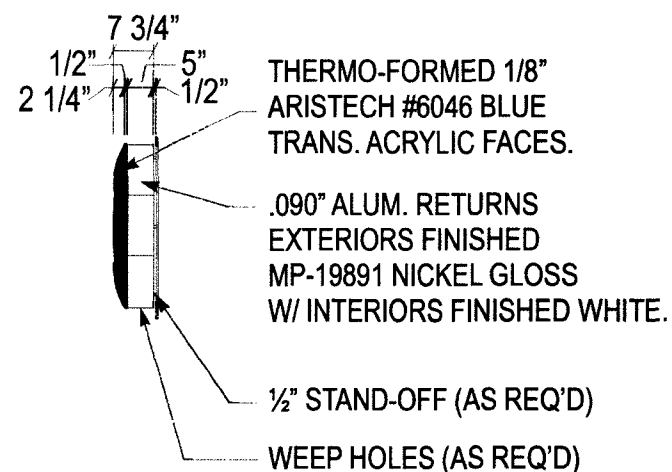
THREADED ROD THROUGH WALL IS PREFERRED IN ALL INSTANCES. IF IT IS NOT POSSIBLE TO USE THREADED ROD, SEE CHART BELOW FOR APPROPRIATE ANCHOR SELECTION. SIZE AND NUMBER REQUIRED ARE NOTED IN THE CHART ABOVE.

WALL STRUCTURE	ANCHOR TYPE
SOLID CONCRETE	HILTI KWIK BOLT 3 EXPANSION ANCHOR (2-1/2" EMBEDMENT)

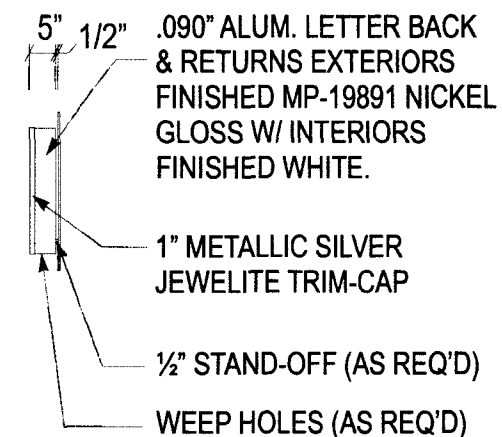
ALL ANCHORS SHALL BE CHOSEN AND PLACED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS



CHANNEL LETTERS LIF-BLK-24-s - ELEVATION
SCALE: 1/4" = 1' 0"

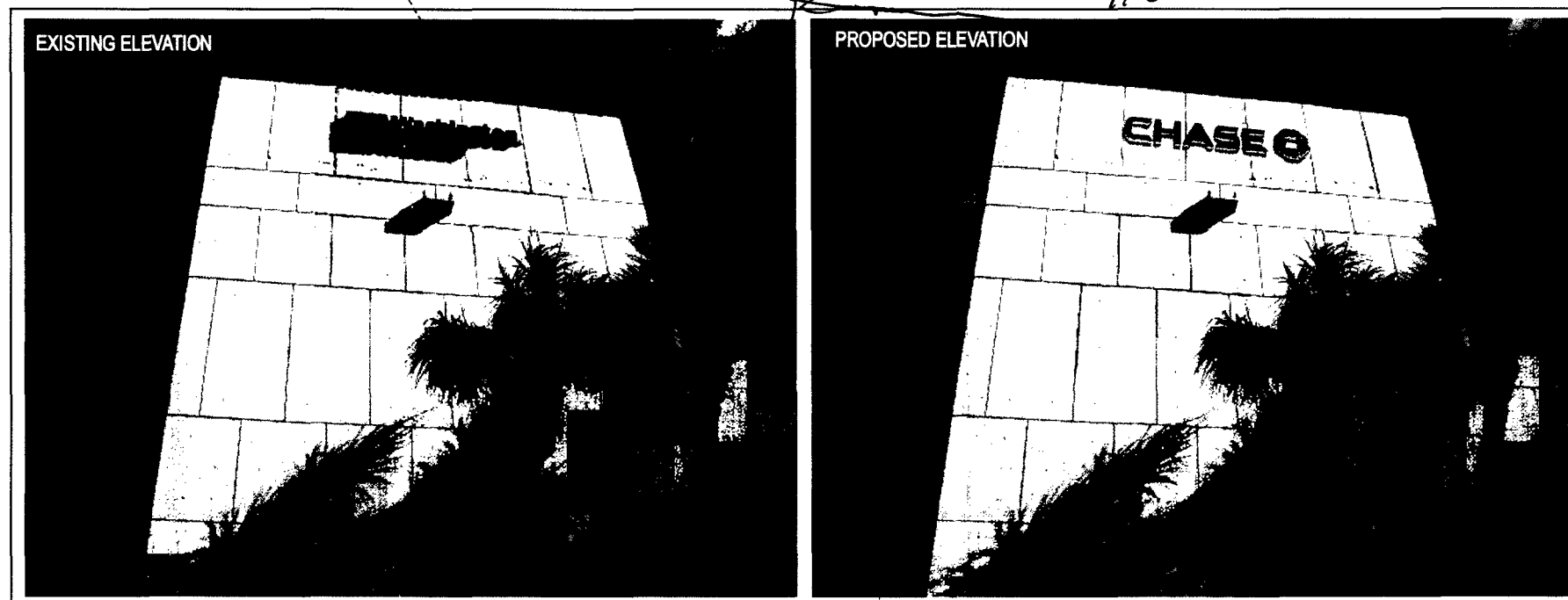


OCTAGON - SIDE VIEW
SCALE: 1/4" = 1' 0"



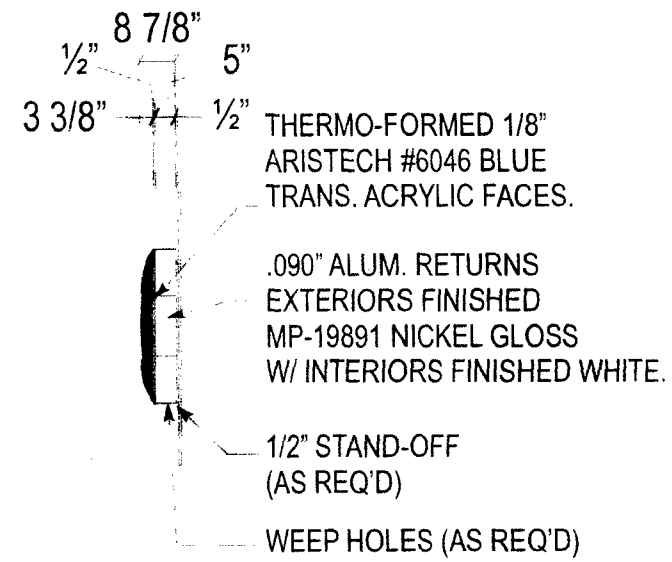
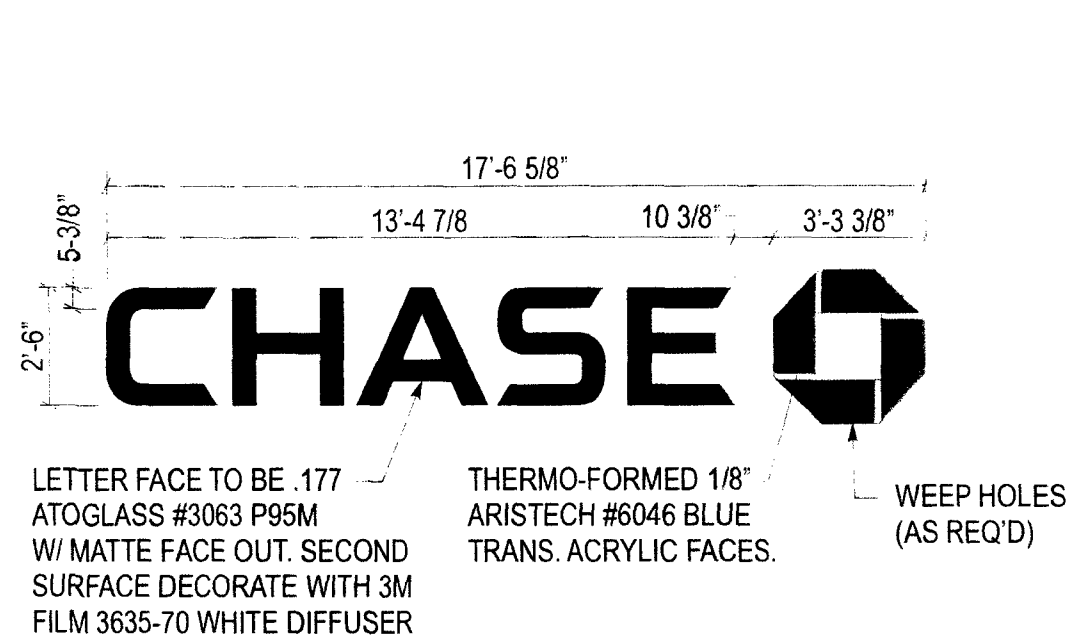
LETTER - SIDE VIEW
SCALE: 1/4" = 1' 0"

REMOVE-RESTORE - REMOVE AND RESTORE
SCALE: NTS

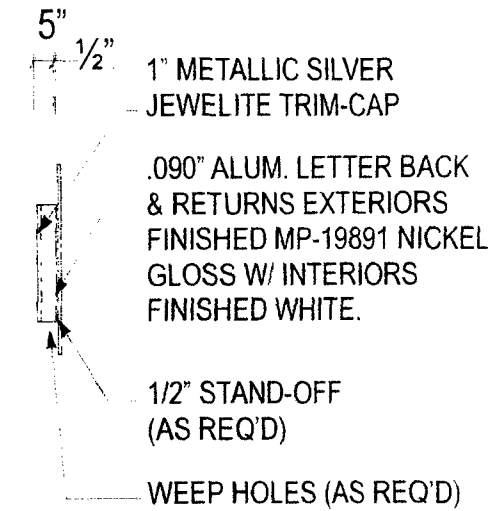


WEST ELEVATION - LIF-BLK-30
Scale: NTS

SIGN #2
WALL HEIGHT: 36'
WALL LENGTH: 110'
WALL AREA: 3960 sf
Proposed Sign Area: 37 sf



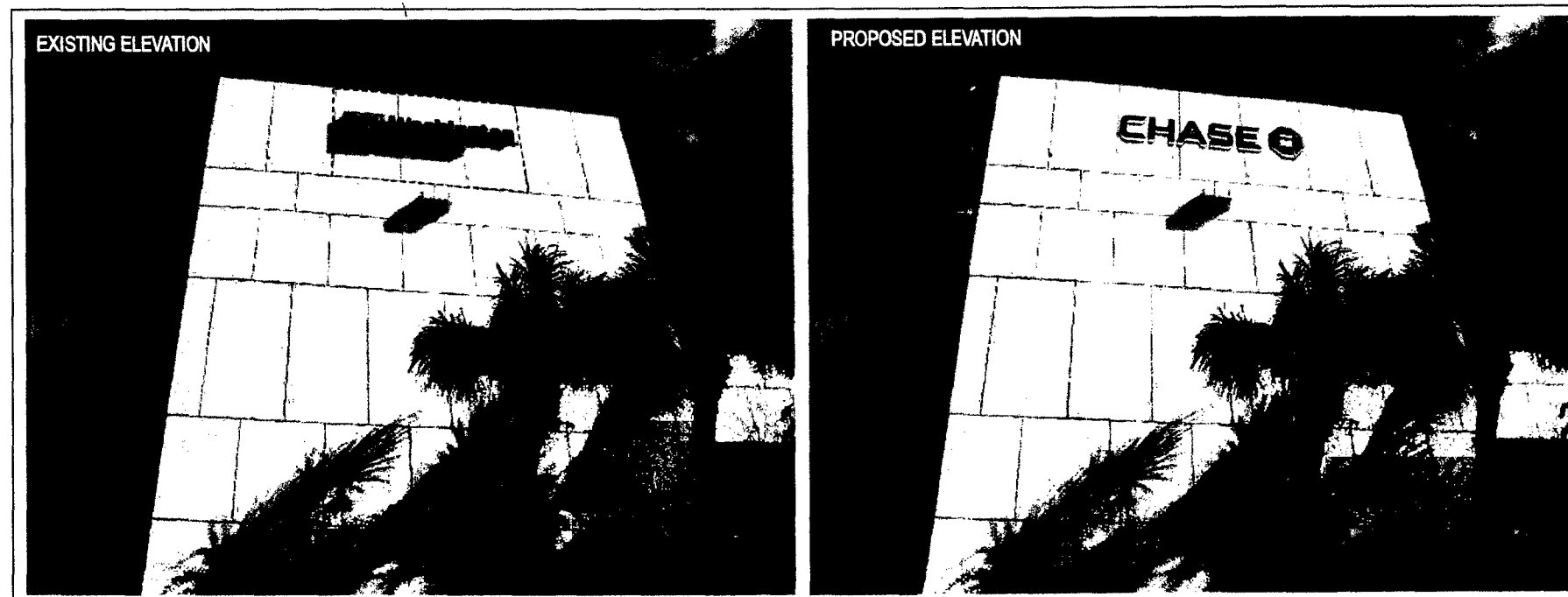
OCTAGON - SIDE VIEW
SCALE: 1/4" = 1' 0"



LETTER - SIDE VIEW
SCALE: 1/4" = 1' 0"

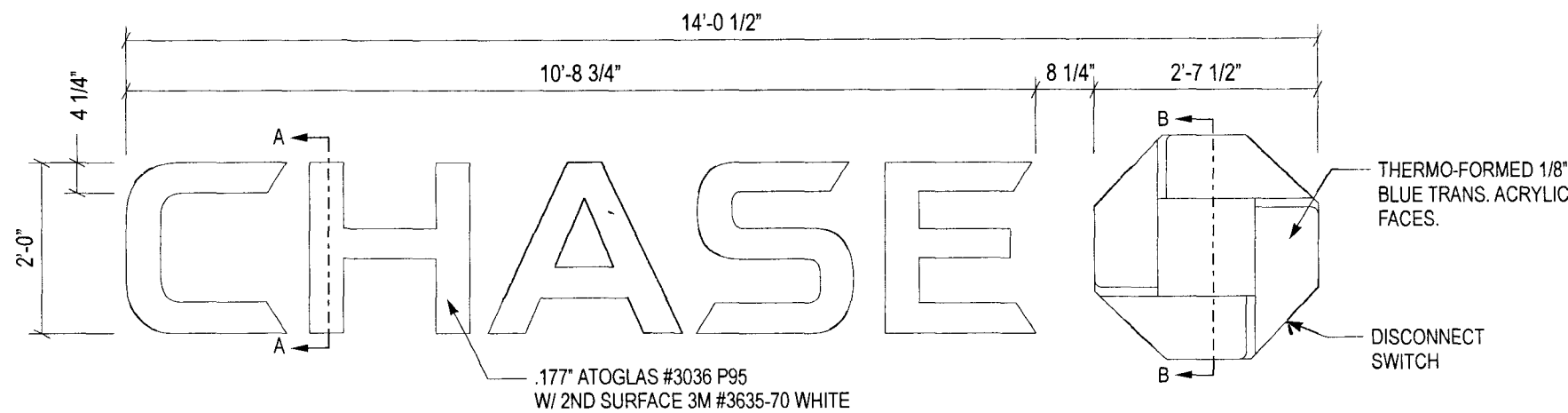
CHANNEL LETTERS- LIF-BLK-30-s - ELEVATION
SCALE: 1/4" = 1' 0"

REMOVE-RESTORE - REMOVE AND RESTORE
SCALE: NTS



WEST ELEVATION - LIF-BLK-30
Scale: NTS

SIGN 2
WALL HEIGHT: 36
WALL LENGTH: 110'
PROPOSED SIGN: 57 SF



GENERAL NOTES:

- U.L. LISTED - FILE NUMBER E157099
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH "NEC" REF. SECTION 600
- ALL ELECTRICAL SIGN SECTIONS TO HAVE U.L. LABEL IN ACCORDANCE WITH "NEC" 600.3 AND MANUFACTURERS LABEL LOCATED NEXT TO DISCONNECT SWITCH
- ALL NON-CURRENT CARRYING METAL PARTS OF SIGN SHALL BE GROUNDED & BONDED IN ACCORDANCE WITH "NEC" 250
- ALL WIRING CONTAINED IN ENCLOSED AREAS WITH LAMPS SHALL BE FIXTURE RATED
- SPlicing OF CONDUCTORS SHALL BE MADE IN JUNCTION BOXES OR SIMILAR METAL ENCLOSURES AT THE POINT THAT ELECTRICAL CABLE PASSES THRU THE SIGN BOX, IT SHALL PASS THRU A U.L. LISTED RUBBER GROMMET

146 MPH WIND LOAD
IMPORTANCE FACTOR 1.0
EXPOSURE C
2007 FLORIDA BUILDING CODE
2009 SUPPLEMENT
SECTION 16 WIND LOAD
ASCE 7-05

ENCON SERVICES, INC.
AARON BIEDENBACH
2272 JAUDON ROAD
DOVER, FL 33527
813-655-3373
FLPE #52949, FLEB #9394

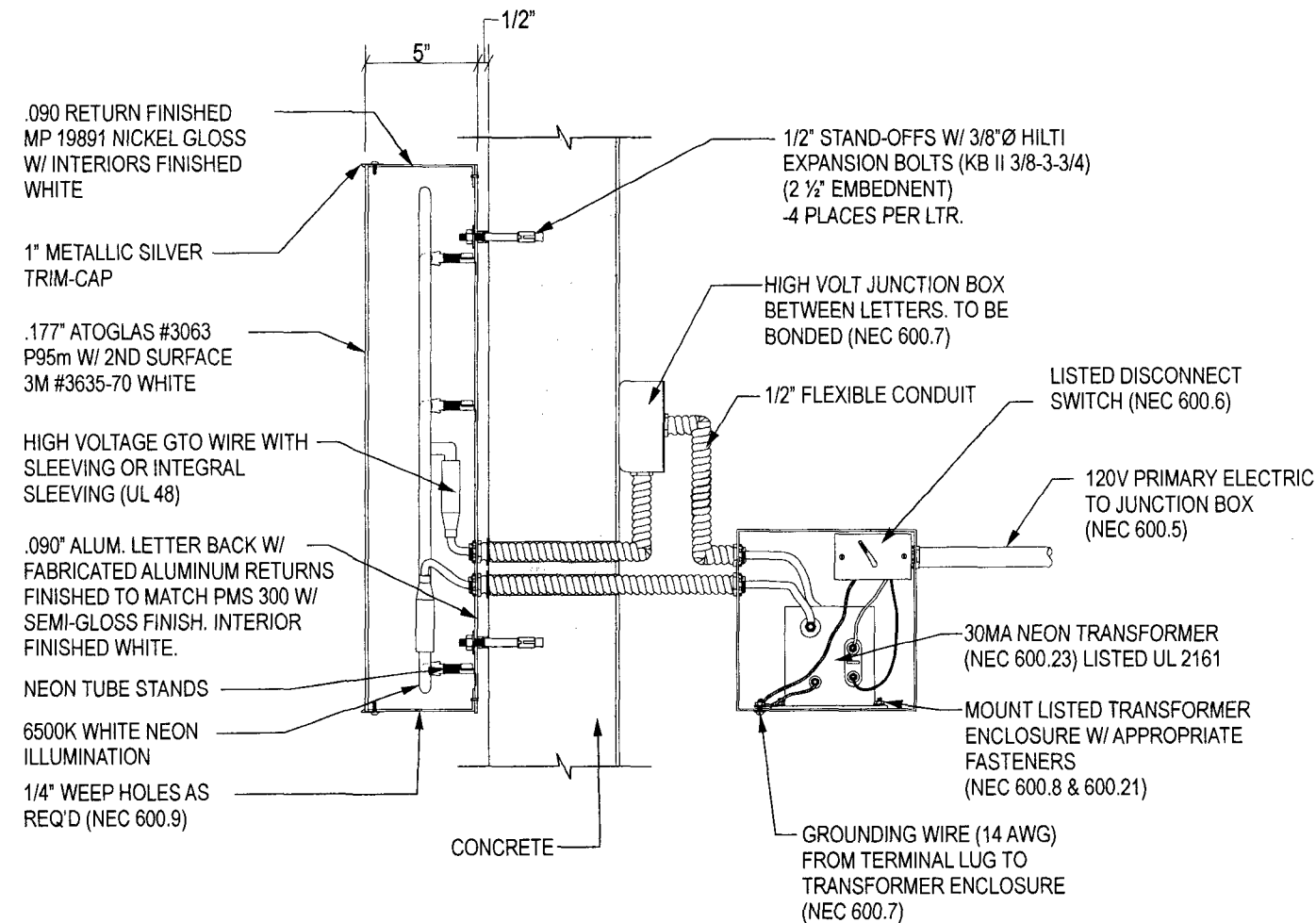
ESTIMATED SIGN WEIGHT

- 16 lbs. PER LETTER
- 32 lbs. PER LOGO

Handwritten signature/initials

CHANNEL LETTERS (BLACK LTRS / BLUE OCTAGON) LIF-BLK-24-s - ELEVATION - (3) REQ'D

SCALE: 1/2" = 1'-0"

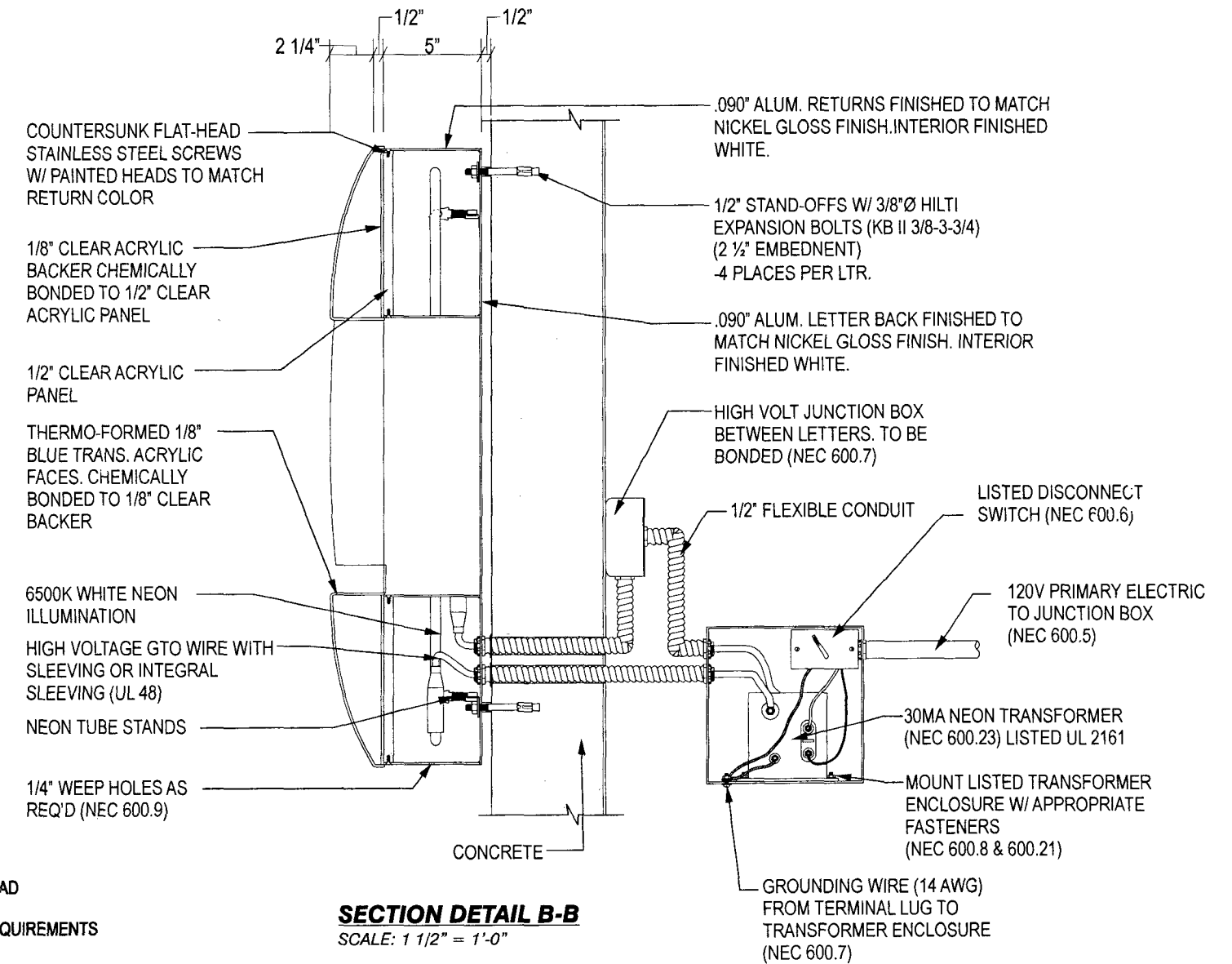


SECTION DETAIL A-A

SCALE: 1 1/2" = 1'-0"

ESTIMATED ELECTRICAL LOAD

6.3A @ 120VAC
ESTIMATED ELECTRICAL REQUIREMENTS
(1)20A circuit @ 120VAC



SECTION DETAIL B-B

SCALE: 1 1/2" = 1'-0"

EnCon Services, Inc.

Sign Design Calculations

Job Description
 Chase Bank 1758
 940 Ives Dairy Road
 Miami, FL
 2'-0" letterset

Design per 2007 Florida Building Code, 2009 supplement, Section 16 Wind Load
 ASCE 7-05

PREPARED BY: EnCon Services, Inc.
 2272 Jaudon Road
 Dover, FL 33527
 813-655-3373
 F 813-655-9814

Aaron Biedenbach, P.E.
 FL PE #52949, FL EB 9394
 OH PE 60756, OC #01893
 KY PE #20281, P #2463
 IN PE #PE 19600322
 FL CBC #060535, QB #22527

Design Specifications	
-----------------------	--

Importance Factor	1
Kzt	1
Exposure Factor	C
Kd	1
Kz	0.98
V	146 mph
GCp-GCpi	1.28 Zone 4, h < 60
Wind Pressure	68.5 (psf)

Sign Information per Letter	
-----------------------------	--

Height	2.00	(ft)
Width	2.00	(ft)
Thickness	1.00	(ft)
Distance grade to top	30	(ft)

Wind Sheer Force 136.90 (lb)
 Weight of Sign 32 (lb)

Total Sheer Force = 140.59 (lb)

Total Tension Force = 273.81 (lb)

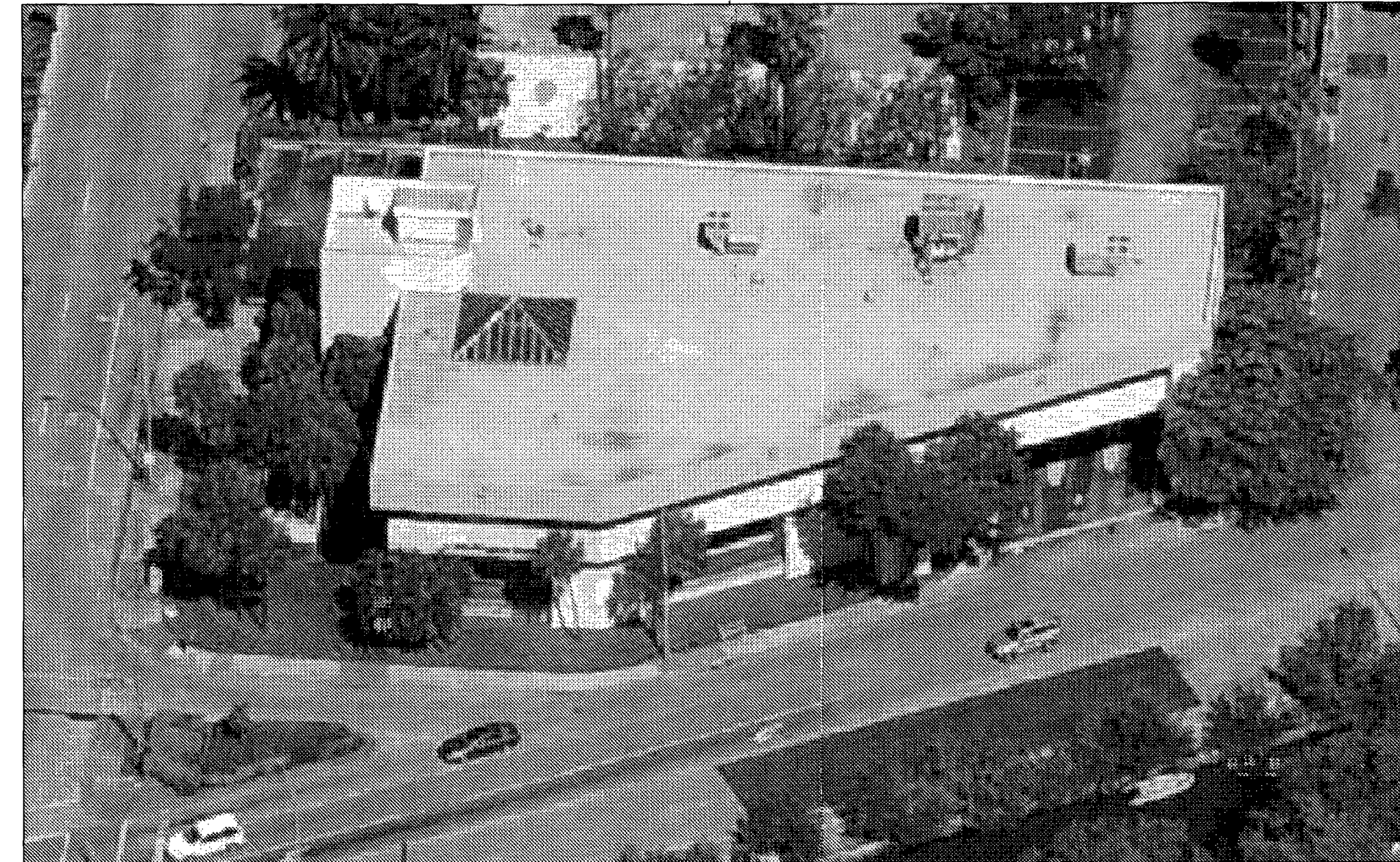
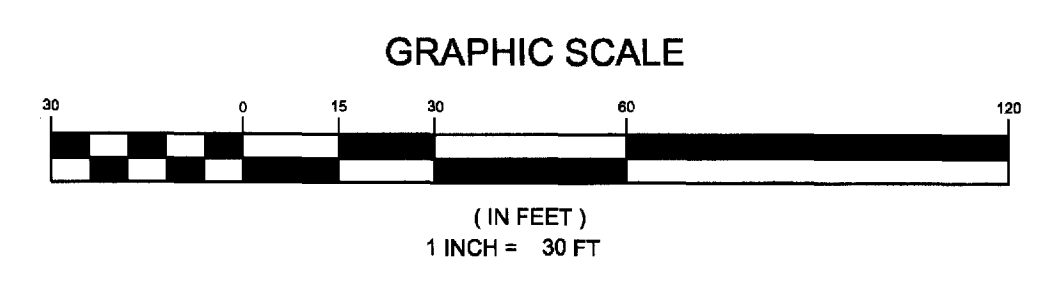
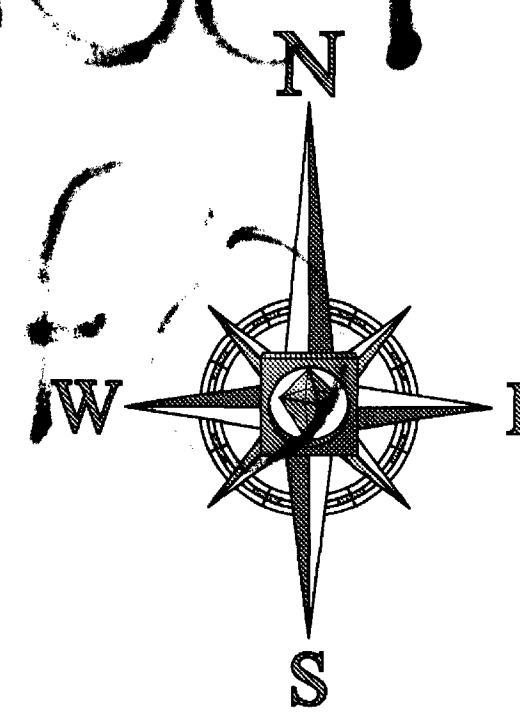
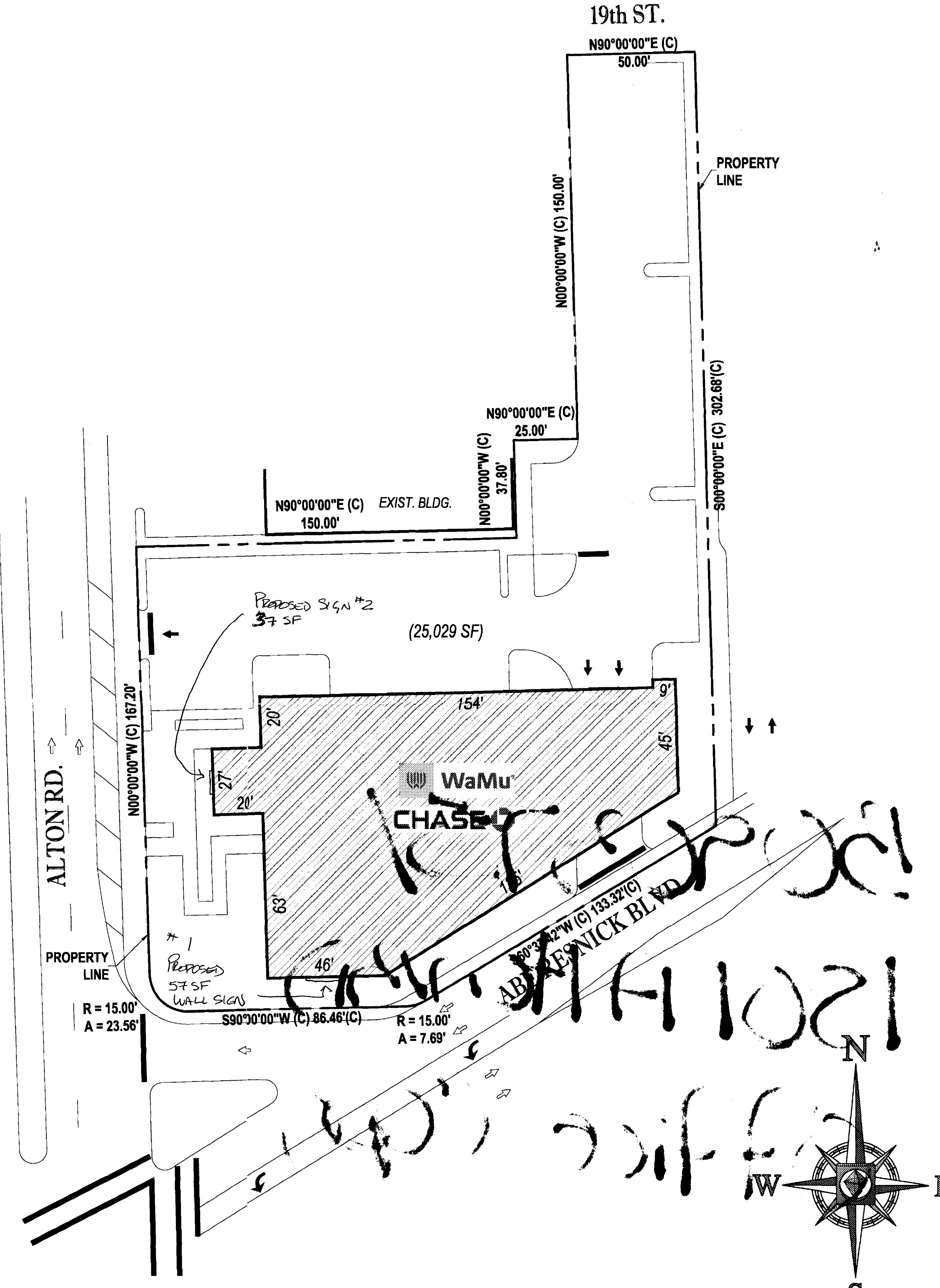
	Required	Provided
Fastener size (Nominal)	3/8	3/8
Minimum number of fasteners per letter	4	4
Sheer Force per fastener (lb)	35.1	280
Tension Force per fastener (lb)	68.5	352

Combination Tension and **0.32 < 1 O.K.**
 Sheer ratio

WALL STRUCTURE	ANCHOR TYPE
SOLID CONCRETE	HILTI KBII EXPANSION ANCHOR (2-1/2" EMBEDMENT)

ALL ANCHORS SHALL BE CHOSEN AND PLACED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS

Printed on Friday, February 05, 2009, 8:51 AM by C:\Users\jmg\My Documents\ALTON RD\SIGN-EXHIBIT-54.dwg - DAYOUT: #1924
 C:\Users\jmg\My Documents\MIAMI-DADE COUNTY\54-1124 MIAMI BEACH-ALTON RD\SIGN-EXHIBIT-54.dwg



SOUTHERN VIEW OF SITE
 NOT TO SCALE

WAMU BUILDING ID #1924
 1801 ALTON RD.
 MIAMI BEACH, FL 33139

LEGAL DESCRIPTION:
 A PORTION OF:
 THE EAST 50 FEET OF LOT 6, LOT 10, LESS THE NORTH 2.8 FEET THEREOF, AND LOT 11, IN
 BLOCK 11 OF "ISLAND VIEW SUBDIVISION", ACCORDING TO THE PLAT THEREOF, AS RECORDED
 IN PLAT BOOK 6, AT PAGE 115 OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

- NOTES:
1. THIS PLAN WAS PREPARED BASED ON A SPECIFIC PURPOSE SURVEY PREPARED BY PINNELL SURVEY, INC.
 2. NO FREESTANDING SIGN LOCATED ON BANK PARCEL.

DATE: 9/23/09
 REVISIONS:
 1. 9/23/09

BOHLER ENGINEERING
 CIVIL & CONSULTING ENGINEERS
 SURVEYORS
 PROJECT MANAGERS
 ENVIRONMENTAL CONSULTANTS
 LANDSCAPE ARCHITECTS

CORPORATE OFFICE:
 ♦ WARREN, NJ
 OFFICES:
 ♦ BATHURSTON, MA
 ♦ BOWNE, MD
 ♦ CHATEAUGUARD, VA
 ♦ FORT LAUDERDALE, FL
 ♦ GAITHERSBURG, MD
 ♦ HARTFORD, CT
 ♦ NEWTON, MA
 ♦ PORTLAND, ME
 ♦ WESTPORT, NY

REV.	DATE	COMMENT	BY

NOT APPROVED FOR CONSTRUCTION

PROJECT No.: CAD
 DRAWN BY: JMG
 CHECKED BY: JMG
 DATE: 12/30/08
 SCALE: AS NOTED
 CAD I.D.: SIGN-EXHIBIT-54

PROJECT:
 MIAMI BEACH/
 ALTON ROAD
 LOCATION

FOR:
 WAMU
 BANK
 #1924

1801 ALTON RD.
 CITY OF MIAMI BEACH
 MIAMI-DADE COUNTY
 FLORIDA

BOHLER ENGINEERING

RADICE III
 1000 CORPORATE DRIVE, SUITE 250
 FORT LAUDERDALE, FL 33334
 PH: (954) 202-7000
 FX: (954) 202-7070
 www.BohlerEngineering.com

JASON M. GUNTHER
 PROFESSIONAL ENGINEER
 FEBRUARY 6, 2009
 FLORIDA LICENSE NO. 58629
 FLORIDA BUSINESS CERT. OF AUTH. NO. 27528

SHEET TITLE:
SIGN EXHIBIT

SHEET NUMBER:
1
 OF 1

BOHLER ID #54

BO90375/
1801 A HUNTER
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OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

MECHANICAL:	_____
ZONING:	_____
LAND USE:	_____
CONCURRENCY:	_____
PLUMBING:	_____
ELECTRICAL:	_____
MUNICIPAL:	_____
FIRE DEPARTMENT:	_____
ENGINEERING:	_____
PUBLIC WORKS:	_____
STREETS:	_____
ELEVATOR:	_____

Perez 7/7/09 / Fern 9/25/09

EnCon Services, Inc.

Sign Design Calculations

Job Description

Chase Bank 1742

1801 Alton Rd.

Miami Beach, Florida

2'-6" Chase Letterset

Design per 2007 Florida Building Code, 2009 supplement, Section 16 Wind Load

ASCE 7-05

PREPARED BY: EnCon Services, Inc.

2272 Jaudon Road

Dover, FL 33527

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F 813-655-9814

Aaron Biedenbach, P.E.

FL PE #52949, FL EB 9394

OH PE 60756, OC #01893

KY PE #20281, P #2463

IN PE #PE 19600322

FL CBC #060535, QB #22527

Design Specifications

Importance Factor	1
Kzt	1
Exposure Factor	C
Kd	1
Kz	1.04
V	146 (mph)
GCp-GCpi	1.28 Zone 4, H < 60 Feet
Wind Pressure	72.6 (psf)

Sign Information Per Letter

Height	2.50 (ft)
Width	2.50 (ft)
Thickness	1.00 (ft)
Distance grade to top	40 (ft)

Wind Sheer Force 181.61 (lb)

Weight of Sign 62.5 (lb)

Total Sheer Force = 192.06 (lb)

Total Tension Force = 454.01 (lb)

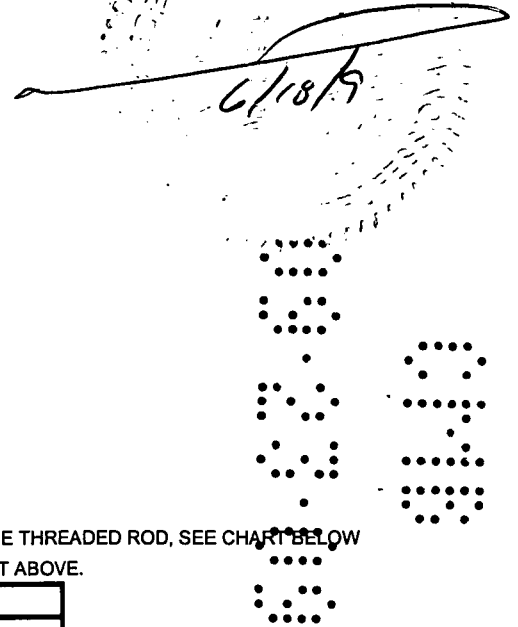
	Required	Provided
Fastener size (Nominal)	3/8	3/8
Minimum number of fasteners Per letter	4	4
Sheer Force per fastener (lb)	48.0	280
Tension Force per fastener (lb)	113.5	352

Combination Tension and Sheer ratio **0.49 < 1 O.K.**

THREADED ROD THROUGH WALL IS PREFERRED IN ALL INSTANCES. IF IT IS NOT POSSIBLE TO USE THREADED ROD, SEE CHART BELOW FOR APPROPRIATE ANCHOR SELECTION. SIZE AND NUMBER REQUIRED ARE NOTED IN THE CHART ABOVE.

WALL STRUCTURE	ANCHOR TYPE
SOLID CONCRETE	HILTI KWIK BOLT 3 EXPANSION ANCHOR (2-1/2" EMBEDMENT)

ALL ANCHORS SHALL BE CHOSEN AND PLACED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS



EnCon Services, Inc.

Sign Design Calculations

Job Description
 Chase Bank 1758
 940 Ives Dairy Road
 Miami, FL
 2'-0" letterset
 Design per 2007 Florida Building Code, 2009 supplement, Section 16 Wind Load
 ASCE 7-05

PREPARED BY: EnCon Services, Inc.
 2272 Jaudon Road
 Dover, FL 33527
 813-655-3373
 F 813-655-9814

Aaron Biedenbach, P.E.
 FL PE #52949, FL EB 9394
 OH PE 60756, OC #01893
 KY PE #20281, P #2463
 IN PE #PE 19600322
 FL CBC #060535, QB #22527

Design Specifications

Importance Factor	1
Kzt	1
Exposure Factor	C
Kd	1
Kz	0.98
V	146 mph
GCp-GCpi	1.28 Zone 4, h < 60
Wind Pressure	68.5 (psf)

Sign Information per Letter

	Height	2.00 (ft)
	Width	2.00 (ft)
	Thickness	1.00 (ft)
	Distance grade to top	30 (ft)

Wind Sheer Force 136.90 (lb)
 Weight of Sign 32 (lb)

Total Sheer Force = 140.59 (lb)

Total Tension Force = 273.81 (lb)

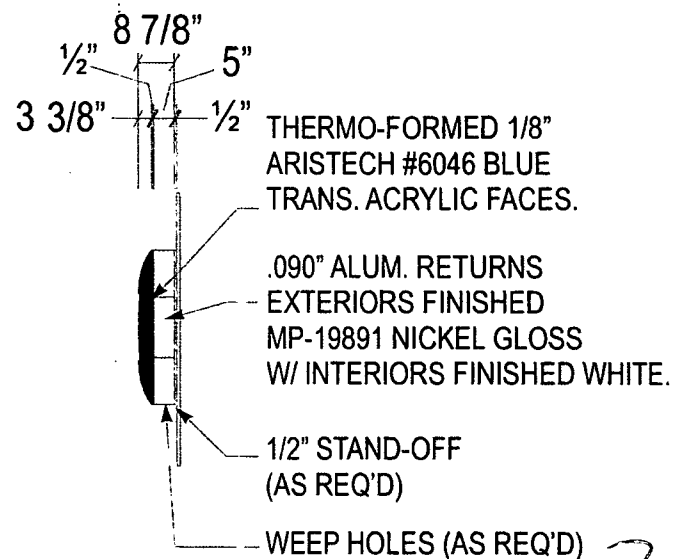
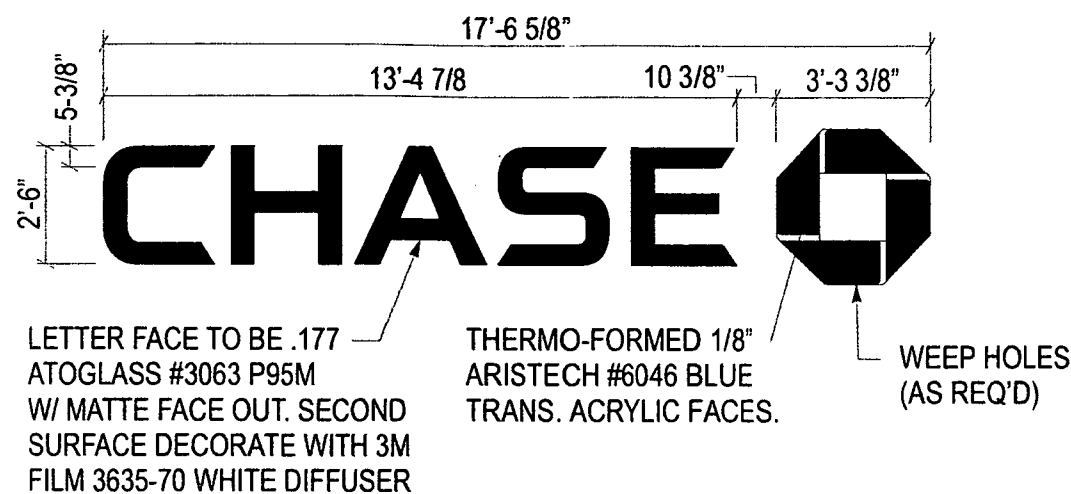


	Required	Provided
Fastener size (Nominal)	3/8	3/8
Minimum number of fasteners per letter	4	4
Sheer Force per fastener (lb)	35.1	280
Tension Force per fastener (lb)	68.5	352

Combination Tension and **0.32 < 1 O.K.**
 Sheer ratio

WALL STRUCTURE	ANCHOR TYPE
SOLID CONCRETE	HILTI KBII EXPANSION ANCHOR (2-1/2" EMBEDMENT)

ALL ANCHORS SHALL BE CHOSEN AND PLACED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS



OCTAGON - SIDE VIEW
SCALE: 1/4" = 1' 0"

OFFICE COPY
1" METALLIC SILVER

CITY OF MIAMI BEACH
JEWEL TRIM

APPROVED FOR PERMIT BY
& RETURNS EXTERIORS
FINISHED MP-19891 NICKEL
GLOSS W/ INTERIORS
FINISHED WHITE.

DATE: 9/23/09

DRB/HPB: _____

CONCURRENCY: _____

PLUMBING: _____

ELECTRICAL: _____

MECHANICAL: _____

FIRE PREVENTION: _____

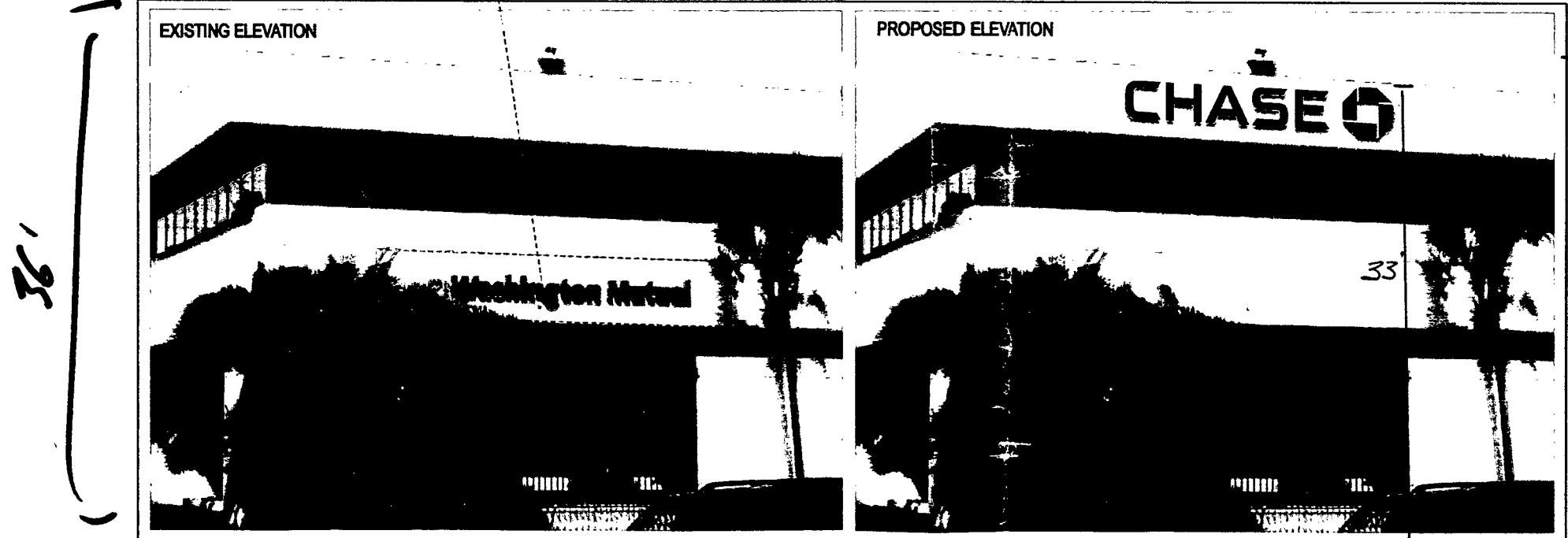
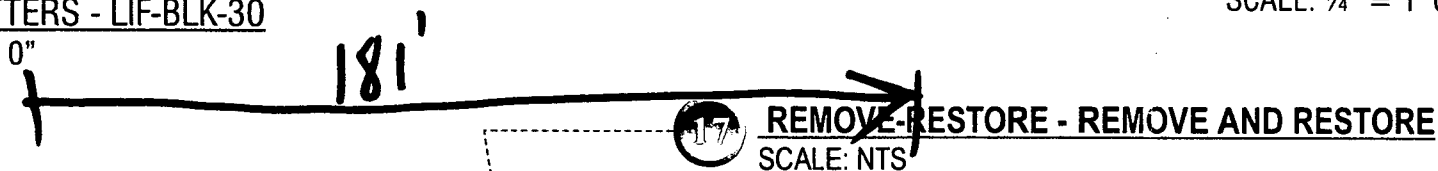
ENGINEERING: _____

PUBLIC WORKS: _____

STRUCTURAL: _____

ELEVATOR: _____

CHANNEL LETTERS - LIF-BLK-30
SCALE: 1/4" = 1' 0"



SOUTH ELEVATION - LIF-BLK-30
Scale: NTS

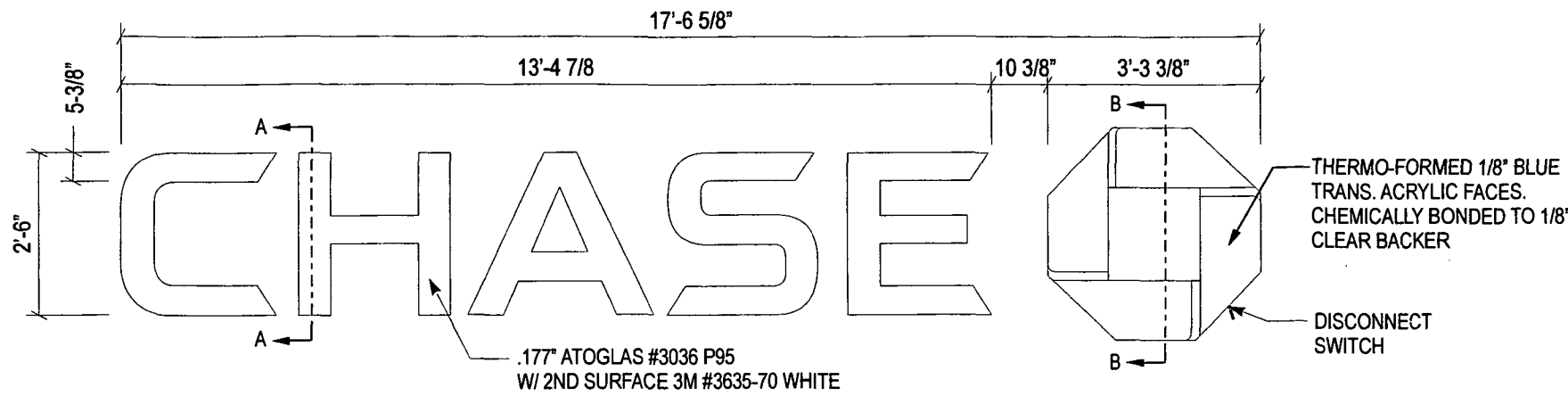
SGN# 1

WALL HEIGHT: 36'

WALL LENGTH: 181'

PROPOSED SIGN: 57 SF

36' WALL AREA: 6516



CHANNEL LETTERS (BLACK LTRS / BLUE OCTAGON) LIF-BLK-30-s (2) REQ'D
SCALE: 3/8" = 1' 0"

GENERAL NOTES:

- U.L. LISTED - FILE NUMBER E157099
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH "NEC" REF. SECTION 600
- ALL ELECTRICAL SIGN SECTIONS TO HAVE U.L. LABEL IN ACCORDANCE WITH "NEC" 600.3 AND MANUFACTURERS LABEL LOCATED NEXT TO DISCONNECT SWITCH
- ALL NON-CURRENT CARRYING METAL PARTS OF SIGN SHALL BE GROUNDED & BONDED IN ACCORDANCE WITH "NEC" 250
- ALL WIRING CONTAINED IN ENCLOSED AREAS WITH LAMPS SHALL BE FIXTURE RATED
- SPlicing OF CONDUCTORS SHALL BE MADE IN JUNCTION BOXES OR SIMILAR METAL ENCLOSURES
- AT THE POINT THAT ELECTRICAL CABLE PASSES THRU THE SIGN BOX, IT SHALL PASS THRU A U.L. LISTED RUBBER GROMMET

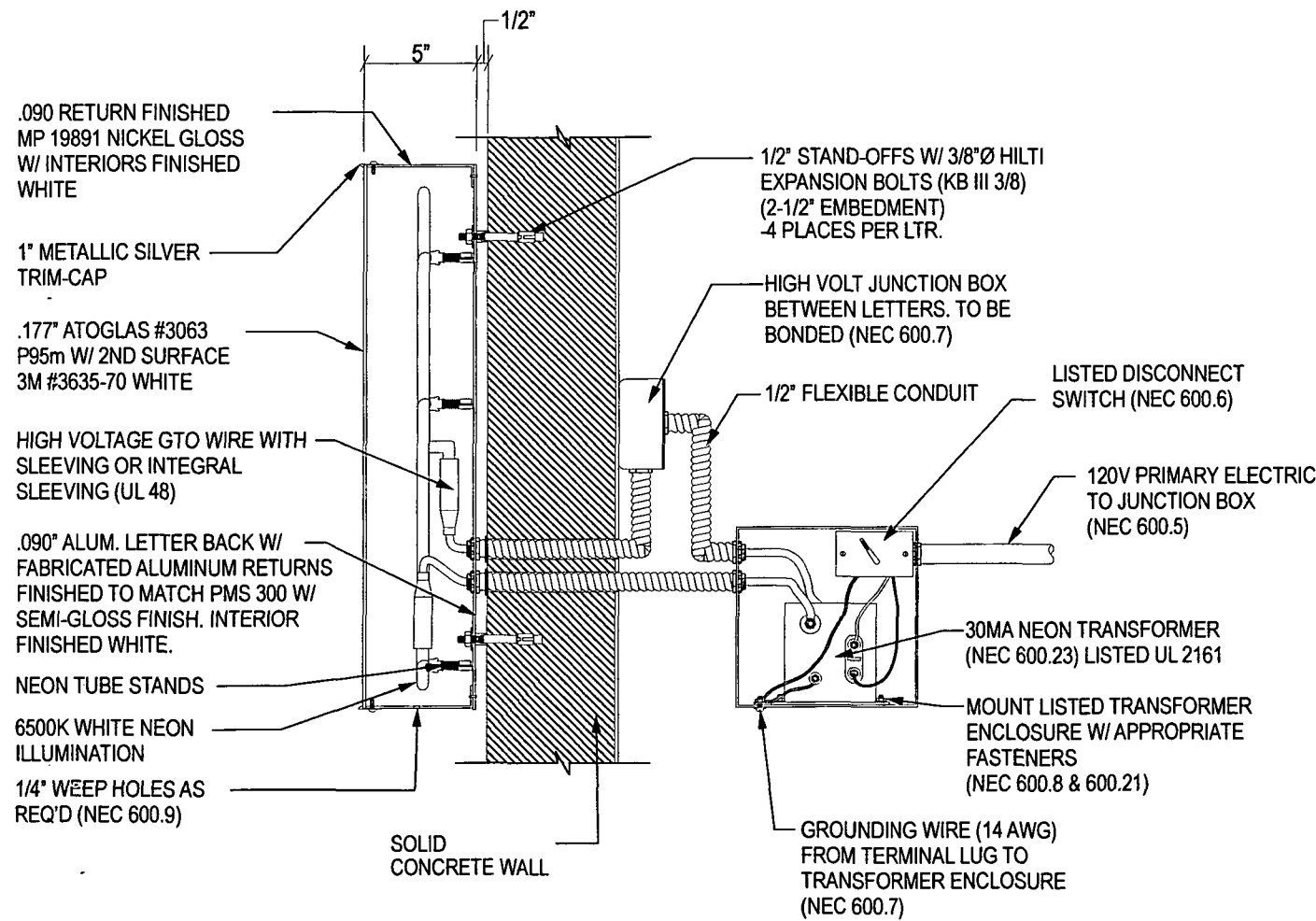
146 MPH WIND LOAD
IMPORTANCE FACTOR 1.0
EXPOSURE C
2007 FLORIDA BUILDING CODE
2009 SUPPLEMENT
SECTION 16 WIND LOAD
ASCE 7-05

ENCON SERVICES, INC.
AARON BIEDENBACH
2272 JAUDON ROAD
DOVER, FL 33527
813-655-3373
FLPE #52949, FLEB #9394

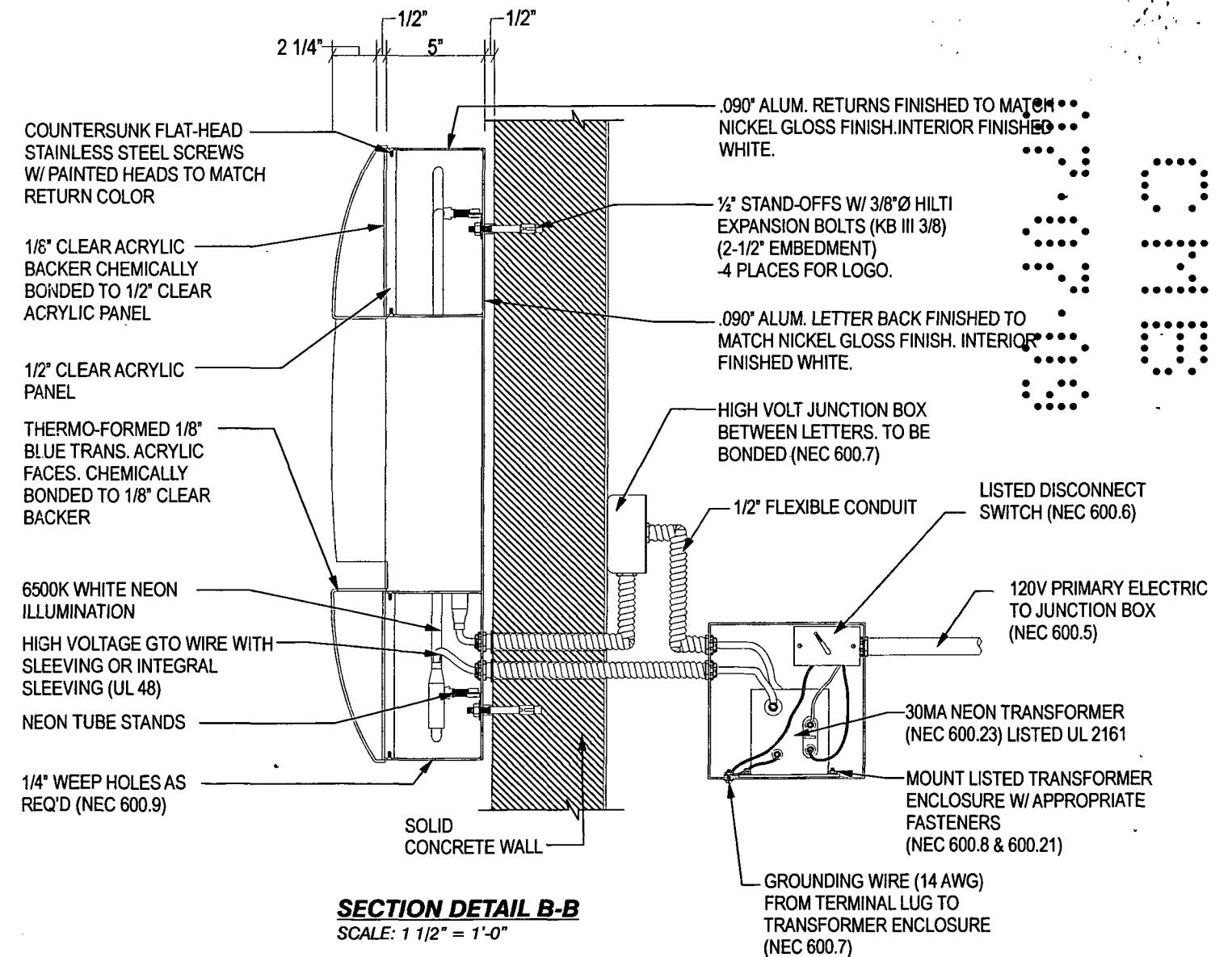
SIGN MOUNTING HEIGHT TO BE 40FT MAXIMUM

ESTIMATED SIGN WEIGHT
-28 lbs. PER LETTER
-52 lbs. PER LOGO

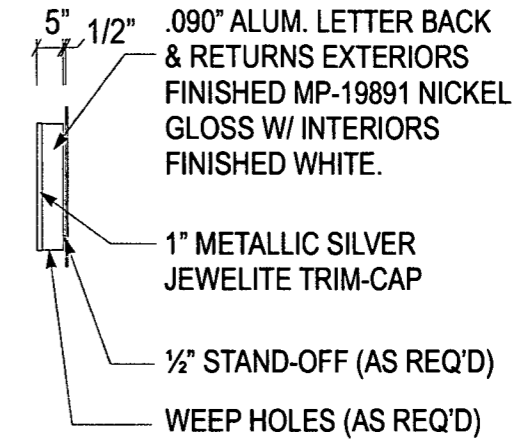
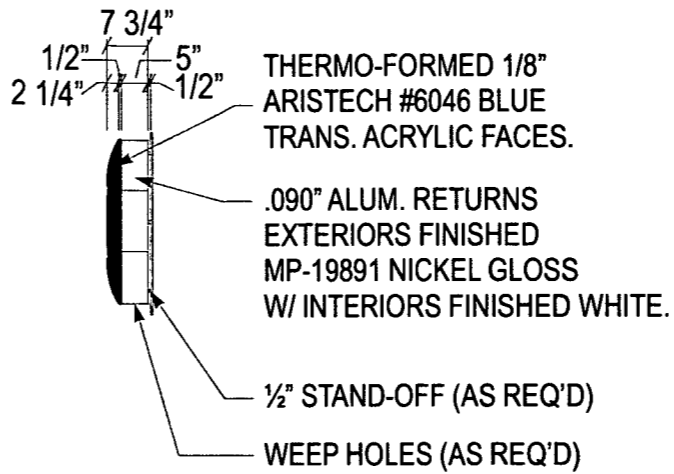
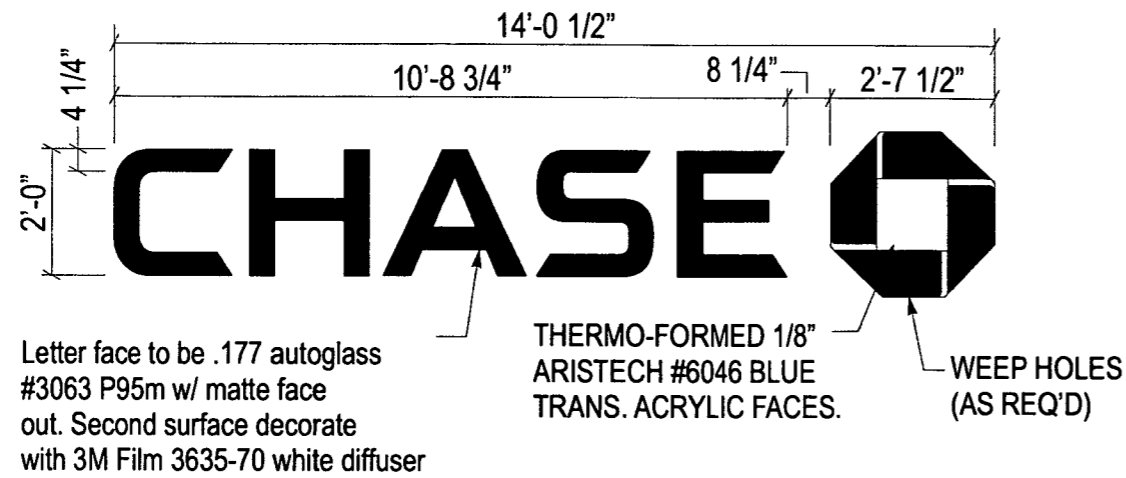
6/18/19



SECTION DETAIL A-A
SCALE: 1 1/2" = 1'-0"



SECTION DETAIL B-B
SCALE: 1 1/2" = 1'-0"

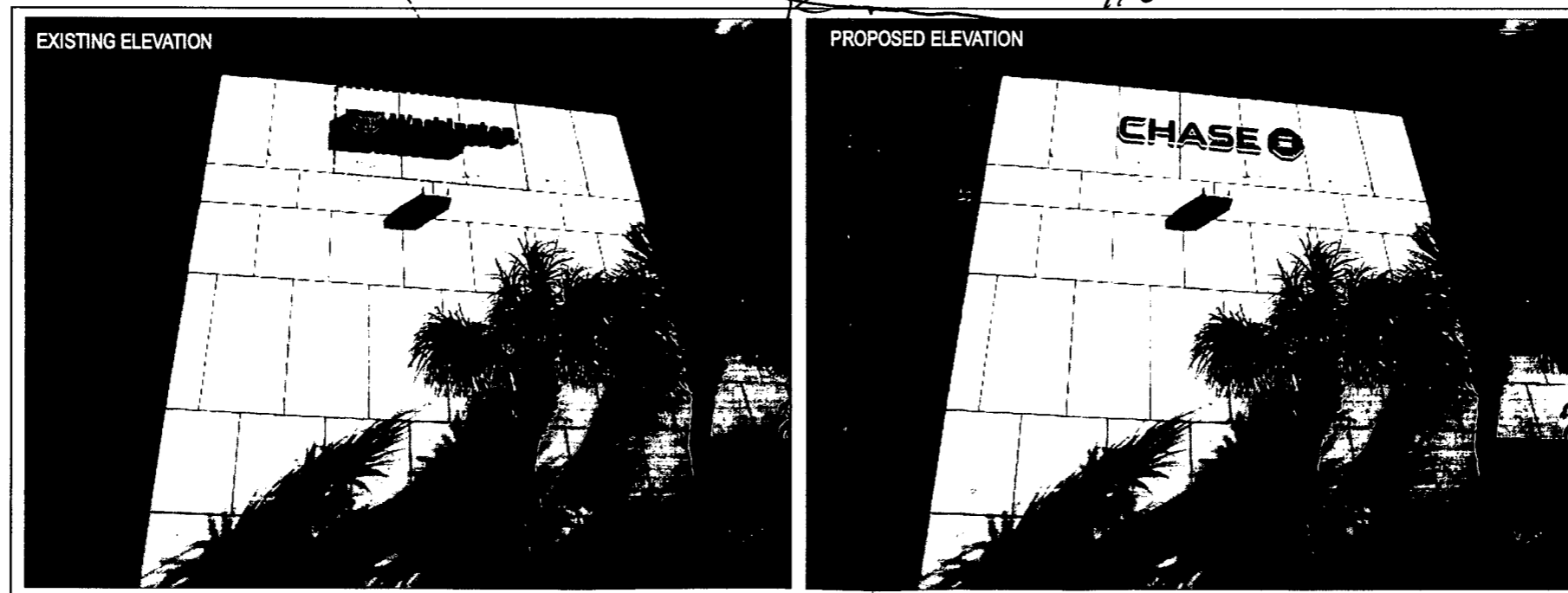


CHANNEL LETTERS LIF-BLK-24-s - ELEVATION
SCALE: 1/4" = 1' 0"

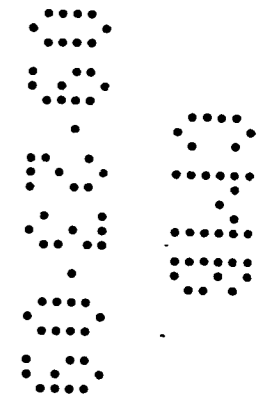
OCTAGON - SIDE VIEW
SCALE: 1/4" = 1' 0"

LETTER - SIDE VIEW
SCALE: 1/4" = 1' 0"

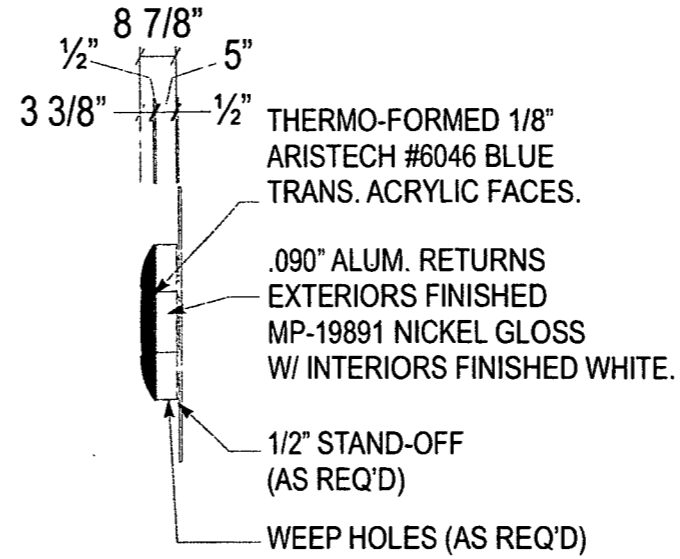
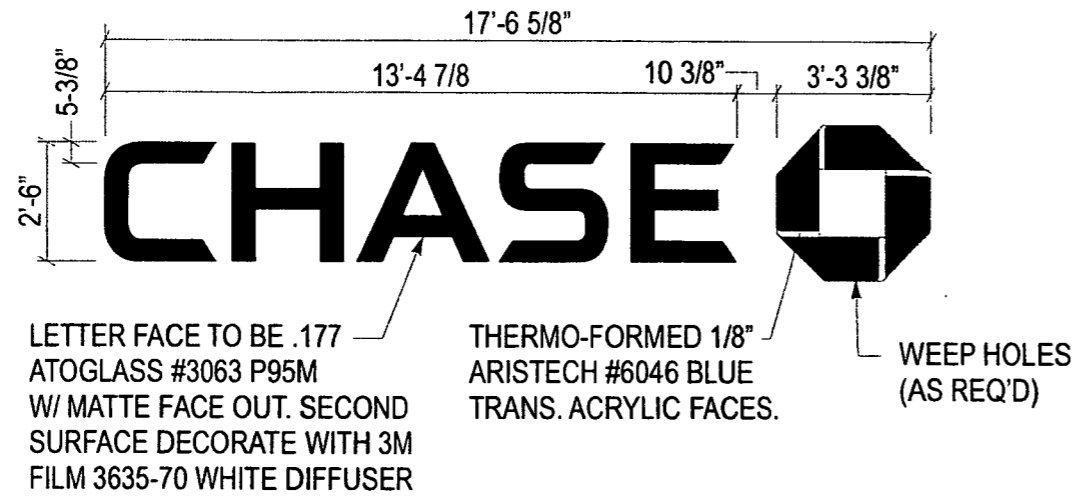
16 REMOVE-RESTORE - REMOVE AND RESTORE
SCALE: NTS



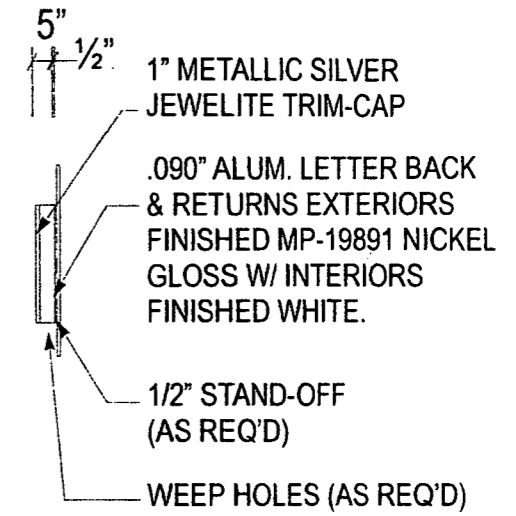
WEST ELEVATION - LIF-BLK-30
Scale: NTS



SIGN #2
WALL HEIGHT: 36'
WALL LENGTH: 110'
WALL AREA: 3960 sf
Proposed Sign Area: 37 sf



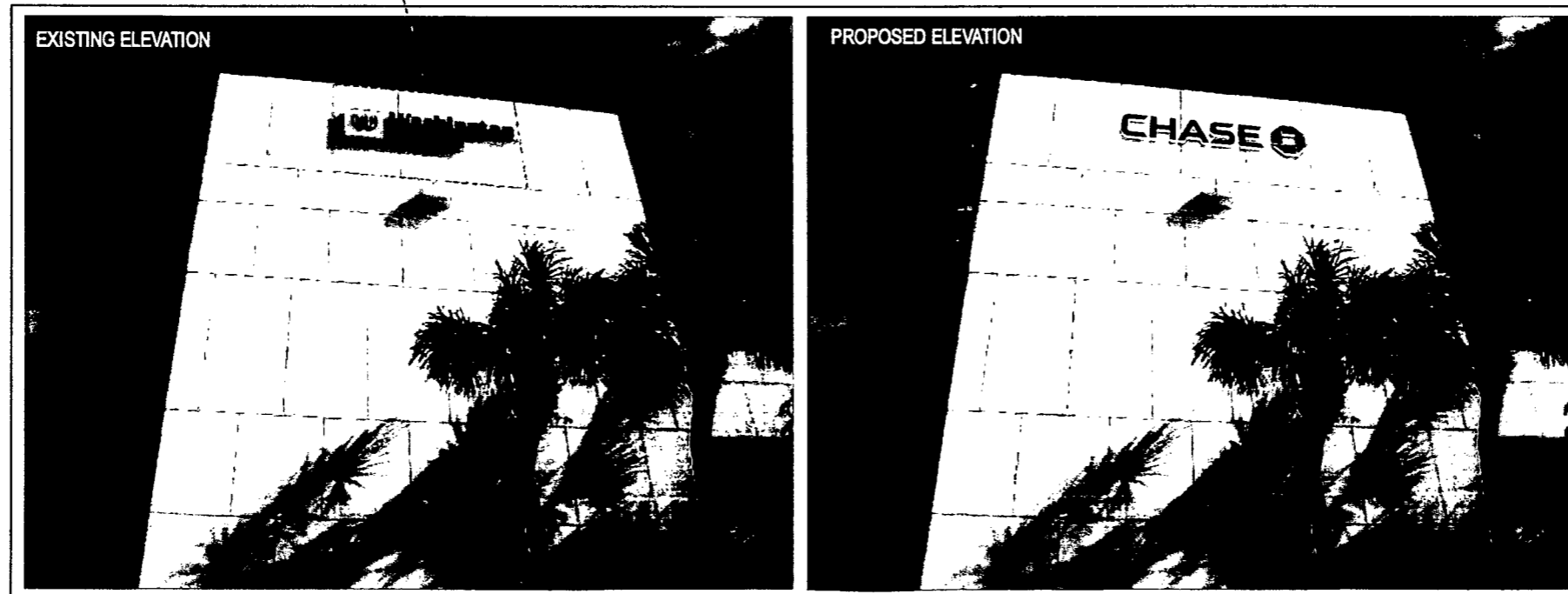
OCTAGON - SIDE VIEW
SCALE: 1/4" = 1' 0"



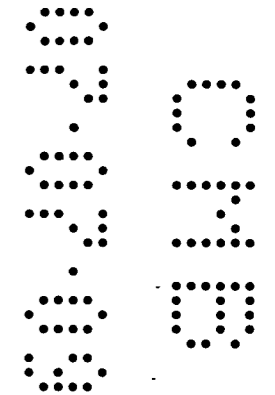
LETTER - SIDE VIEW
SCALE: 1/4" = 1' 0"

CHANNEL LETTERS- LIF-BLK-30-s - ELEVATION
SCALE: 1/4" = 1' 0"

REMOVE-RESTORE - REMOVE AND RESTORE
SCALE: NTS



WEST ELEVATION - LIF-BLK-30
Scale: NTS



SIGN 2

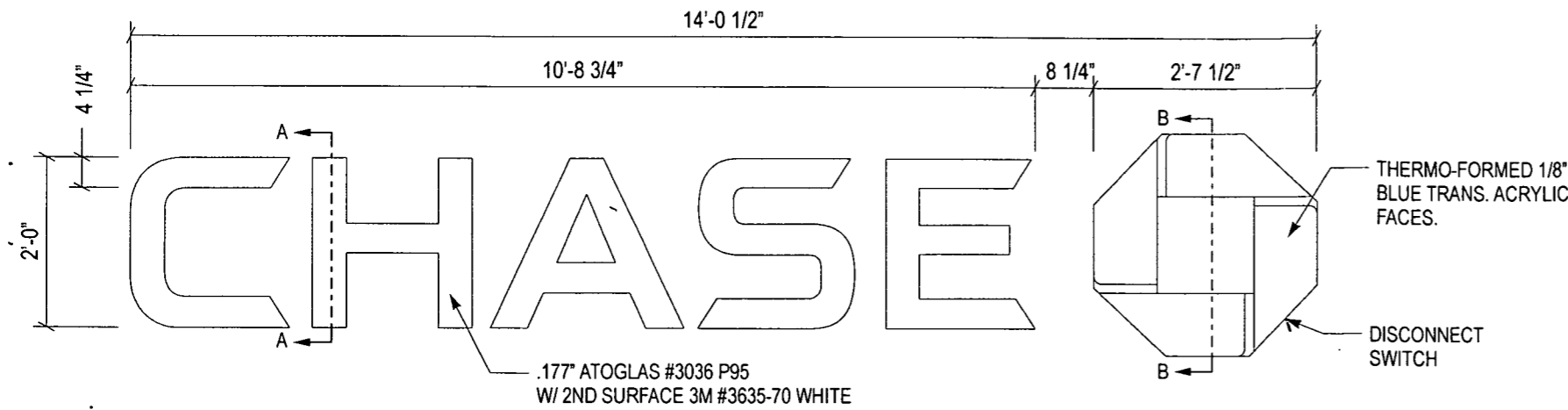
WALL HEIGHT: 36

WALL LENGTH: 110'

PROPOSED SIGN: 57 SF

0700
0700

VOID
CITY OF MIAMI BEACH



GENERAL NOTES:

- U.L. LISTED - FILE NUMBER E157099
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH "NEC" REF. SECTION 600
- ALL ELECTRICAL SIGN SECTIONS TO HAVE U.L. LABEL IN ACCORDANCE WITH "NEC" 600.3 AND MANUFACTURERS LABEL LOCATED NEXT TO DISCONNECT SWITCH
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146 MPH WIND LOAD
IMPORTANCE FACTOR 1.0
EXPOSURE C
2007 FLORIDA BUILDING CODE
2009 SUPPLEMENT
SECTION 16 WIND LOAD
ASCE 7-05

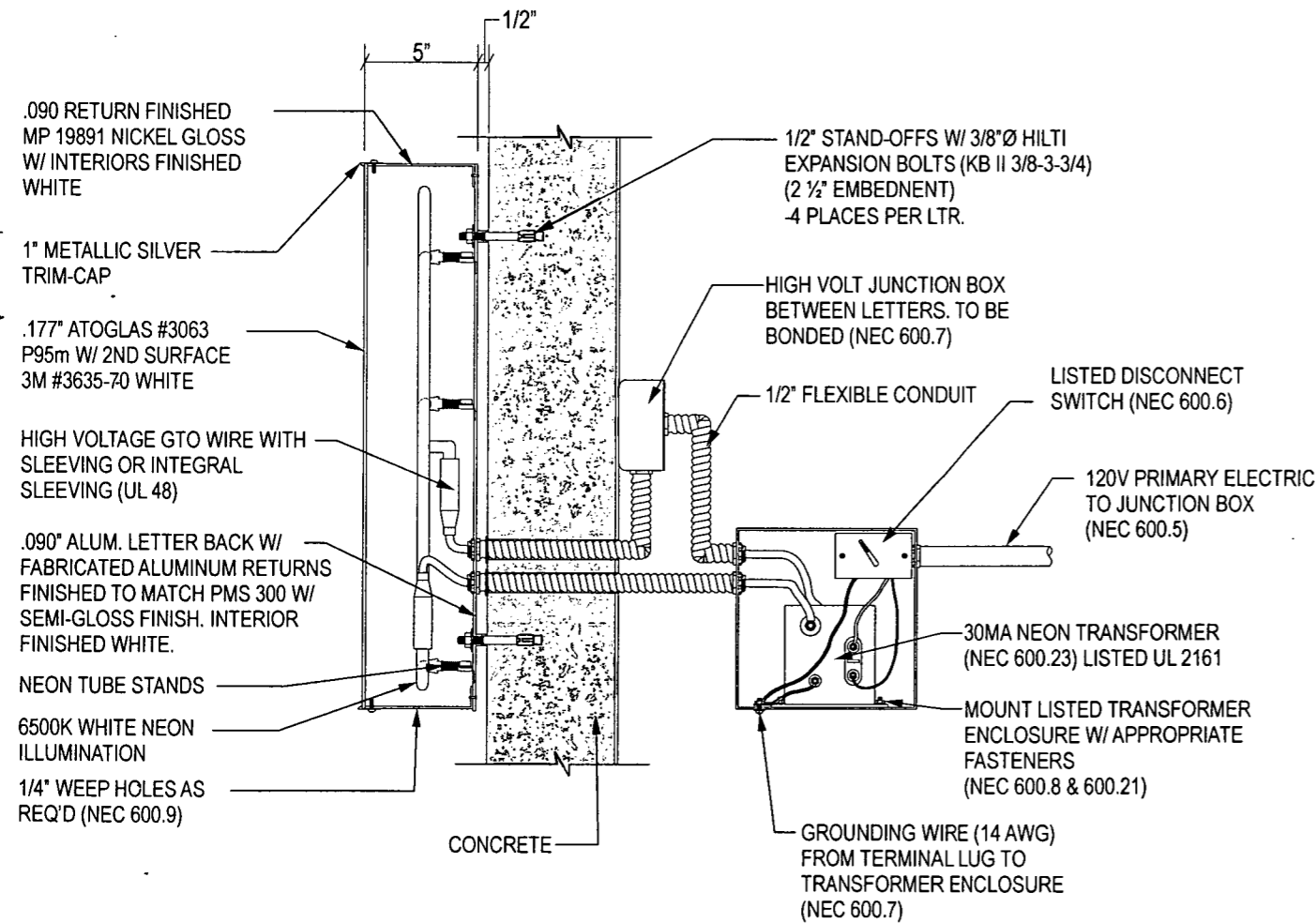
ENCON SERVICES, INC.
AARON BIEDENBACH
2272 JAUDON ROAD
DOVER, FL 33527
813-655-3373
FLPE #52949, FLEB #9394

ESTIMATED SIGN WEIGHT

- 16 lbs. PER LETTER
- 32 lbs. PER LOGO

CHANNEL LETTERS (BLACK LTRS / BLUE OCTAGON) LIF-BLK-24-s - ELEVATION - (3) REQ'D

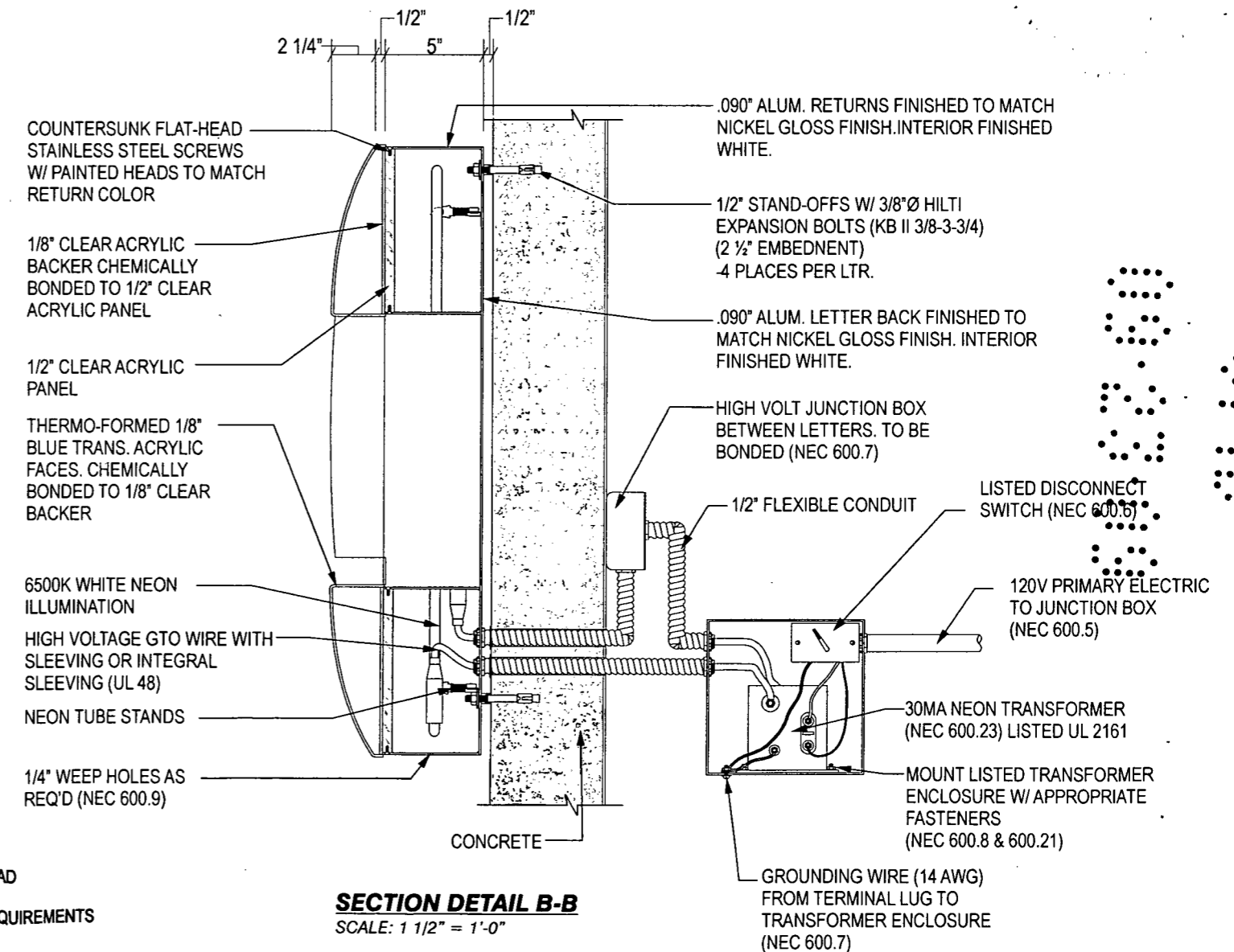
SCALE: 1/2" = 1'-0"



SECTION DETAIL A-A

SCALE: 1 1/2" = 1'-0"

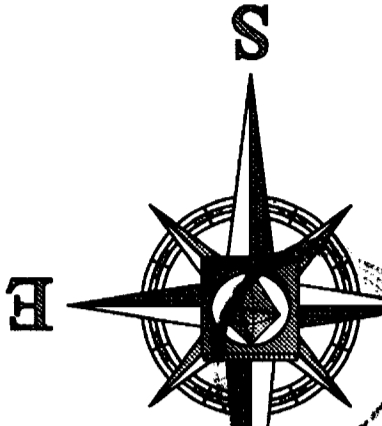
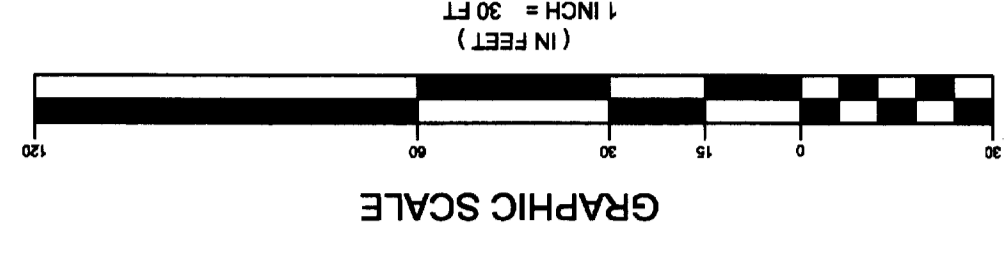
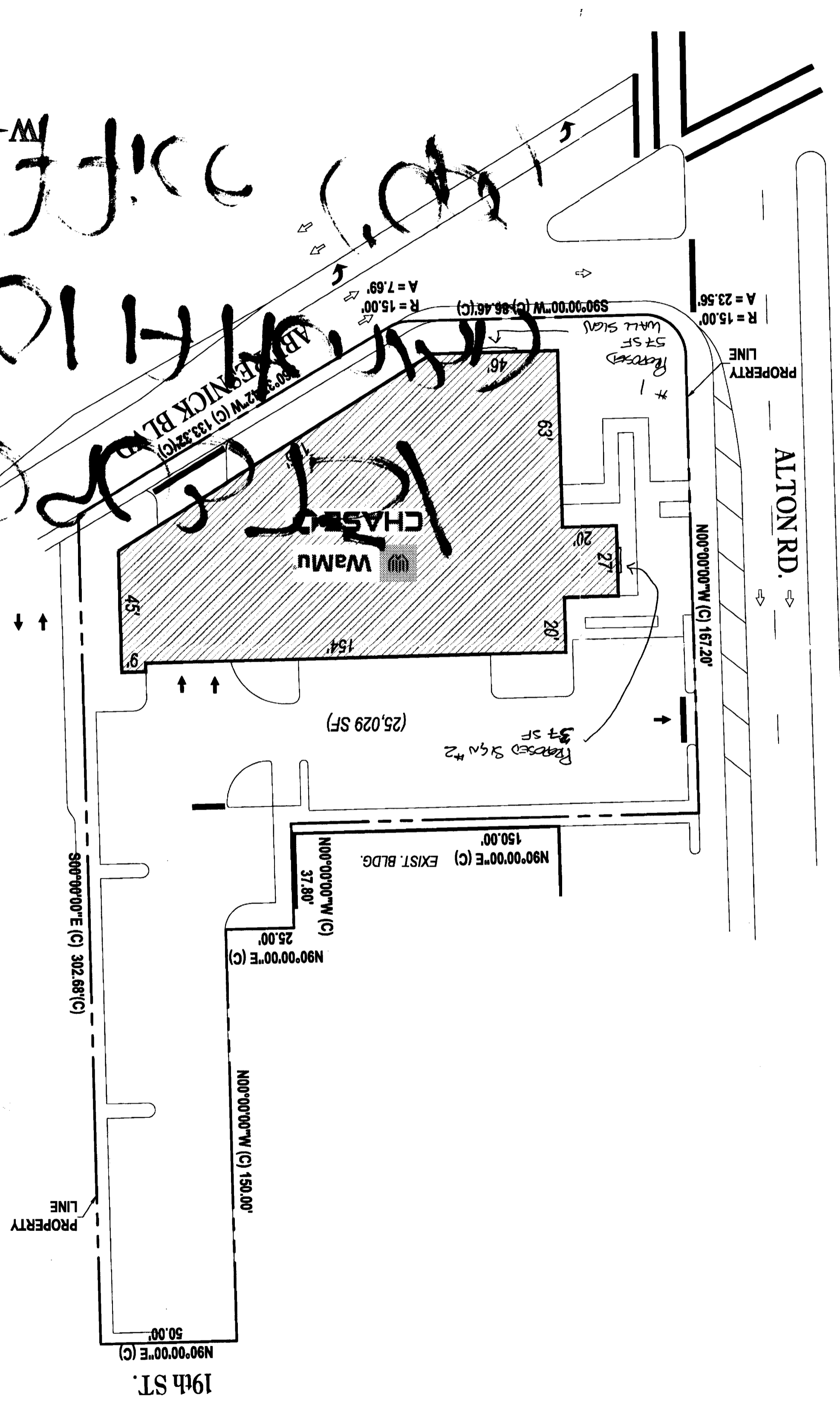
ESTIMATED ELECTRICAL LOAD
6.3A @ 120VAC
ESTIMATED ELECTRICAL REQUIREMENTS
(1)20A circuit @ 120VAC



SECTION DETAIL B-B

SCALE: 1 1/2" = 1'-0"

In addition to the requirements of this permit there may be additional restrictions applicable to this property that may be found in the Public Records of this County and there may be additional restrictions required from other government entities such as water management districts, state agencies, or federal agencies. City of Miami Beach assumes no responsibility for accuracy of results from these plans which are approved subject to compliance with all Federal, State, and Local Laws, Rules, and Regulations.



Handwritten notes and signatures in black ink, including 'WAMU CHASSER' and 'ADRIAN BERNICK BLDG'.



SOUTHERN VIEW OF SITE NOT TO SCALE

LEGAL DESCRIPTION:
A PORTION OF:
THE EAST 50 FEET OF LOT 6, LOT 10, LESS THE NORTH 2.8 FEET THEREOF, AND LOT 11, IN BLOCK 11 OF "ISLAND VIEW SUBDIVISION", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 6, AT PAGE 115 OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

WAMU BUILDING ID #1924
1801 ALTON RD.
MIAMI BEACH, FL 33139

BO903751

NOTES:
1. THIS PLAN WAS PREPARED BASED ON A SPECIFIC PURPOSE SURVEY PREPARED BY PINNELL SURVEY, INC.
2. NO FREESTANDING SIGN LOCATED ON BANK PARCEL.

- Building: ZONING: CONFORMANCE: DRB/HPB: CONCURRENCE: ELEVATOR: ELECTRICAL: MECHANICAL: FIRE EXTINGUISHING: ENGINEERING: ENVIRONMENTAL: FOUNDATIONS: GEOTECHNICAL: PLUMBING: ROADS: SURVEYING: STRUCTURAL: TRENCHING: UTILITIES: WATERSHEDS: OTHER: COMMENTS:

Vertical sidebar containing project information, company logo (Bohler Engineering), and a grid of revision records.

Box 10-013

BO90375/
1801 ALHAMBRA
Office Copy

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING: _____
ZONING: 9/23/09
DRB/HPB: _____
CONCURRENCY: _____
PLUMBING: _____
ELECTRICAL: 9/23/09
MECHANICAL: _____
FIRE PREVENTION: _____
ENGINEERING: _____
PUBLIC WORKS: _____
STRUCTURAL: Perez 1/7/09 / Lew 9/23/09
ELEVATOR: _____

CHASE INTERIOR REBRANDING CONVERSION



MIAMI BEACH - ALTON ROAD

CHASE STORE ID #1742
 WAMU BLDG. ID #1924
 1801 ALTON ROAD
 MIAMI BEACH, FL 33139

VICINITY MAP



LOCATION MAP



DRAWING INDEX

- ARCHITECTURAL**
- A0.0 DRAWING INDEX, MAPS, PROJ. INFO
 - A0.0A RESPONSIBILITY SCHEDULE, KEY PLAN & AERIAL VIEW
 - A0.0B CONSTRUCTION PHASING PLAN - FOR REFERENCE ONLY
 - A1.0 DEMOLITION PLAN
 - A1.0A DEMOLITION CEILING PLAN
 - A1.1 FLOOR PLAN
 - A1.2 FINISH PLAN
 - A1.3 FURNITURE PLAN
 - A2.0 REFLECTED CEILING PLAN
 - A3.0 INTERIOR ELEVATIONS, SECTIONS, AND DETAILS
 - A3.1 INTERIOR ELEVATIONS, SECTIONS, AND DETAILS
 - A3.2 INTERIOR ELEVATIONS, SECTIONS, AND DETAILS

- MECHANICAL**
- M0.0 HVAC NOTES, SPECIFICATIONS AND DETAILS
 - M1.0 HVAC FLOOR PLAN

- ELECTRICAL**
- E0.0 ELECTRICAL SPECIFICATIONS
 - E1.0 ELECTRICAL PLAN - LIGHTING
 - E2.0 ELECTRICAL PLAN - POWER
 - E3.0 ELECTRICAL PLAN - SYSTEMS
 - E4.0 ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULE

PERMIT REVIEW NOTICE
 Phone 305-673-7080 Fax 305-673-7028

ALL CONSTRUCTION AND/OR USE OF EQUIPMENT IN THE RIGHT-OF-WAY AND/OR EASEMENTS, REQUIRES A SEPARATE PUBLIC WORKS DEPARTMENT PERMIT PRIOR TO START OF CONSTRUCTION.

Permit Requirements: Proof of existing sidewalk/curb area conditions (pictures) and/or posting of sidewalk/curb area bonds (Public Works Inspection of the right-of-way will be required prior to final sign-off on the C.C./C.O., or the release of bonds.)

Approved/Reviewed By: B. Small Date: 3/25/10

GENERAL NOTES

1. ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES, REGULATIONS, ORDINANCES AND STANDARDS INCLUDING ADA AND OTHER HANDICAP ACCESSIBILITY CODES.
2. GEN. CONTRACTOR SHALL COORDINATE WITH THE PROJECT MANAGEMENT COMPANY/ OWNER'S VENDORS REGARDING SCHEDULING AND SEQUENCING OF THE WORK.
3. THE CONSTRUCTION NOTES AND DRAWINGS ARE SUPPLIED TO ILLUSTRATE THE DESIGN AND GENERAL TYPE OF CONSTRUCTION DESIRED AND ARE INTENDED TO IMPLY THE FINEST QUALITY OF CONSTRUCTION, MATERIAL AND WORKMANSHIP THROUGHOUT.
4. THE DRAWINGS ARE NOT TO BE SCALED. FOR INFORMATION CONCERNING EXISTING CONDITIONS, ETC., VERIFICATION MUST BE DONE IN THE FIELD. LARGE SCALE DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS.
5. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL EXISTING ABOVE AND BELOW GRADE UTILITIES, INCLUDING SANITARY SEWER, STORM SEWER, WATER, GAS, ELECTRICAL, TELEPHONE, ETC. ANY DISCREPANCIES IN UTILITY LOCATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
6. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL BUILDING DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY VARIANCE OR DISCREPANCY AFFECTING NEW CONSTRUCTION PRIOR TO PROCEEDING WITH WORK.
7. CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING IN WALLS FOR SUPPORT OF ALL RELOCATED/ NEW EQUIPMENT, SHELVING, ACCESSORIES AND OTHER DEVICES REQUIRED.
8. ALL PENETRATIONS SHALL RECEIVE CAULKING TO SEAL ANY TYPE OF ENERGY LOSS.
9. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL APPLICABLE DIMENSIONS OF FIXTURES AND EQUIPMENT SUPPLIED AND/OR INSTALLED BY OTHERS.
10. UPON COMPLETION OF PROJECT, OBTAIN ALL FINAL INSPECTIONS AS REQUIRED BY LOCAL JURISDICTIONS AND FURNISH OWNER WITH EVIDENCE OF ALL SUCH INSPECTIONS AND CERTIFICATES OF OCCUPANCY.
11. ALL MEANS OF EGRESS AND FIRE PROTECTION SHALL BE MAINTAINED AT ALL TIMES AND ANY SHUT DOWN OF LIFE SAFETY OR BUILDING SYSTEMS SHALL BE APPROVED AND COORDINATED IN ADVANCE WITH THE OWNER AND LOCAL BUILDING DEPARTMENT.
12. GENERAL CONTRACTOR TO PROVIDE DAILY TRASH REMOVAL. NO DUMPSTERS/ STORAGE CONTAINERS WILL BE ALLOWED ON SITE.
13. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE OWNER'S VENDORS ON SITE DURING CONSTRUCTION.
14. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL THE UTILITY SERVICES FOR THE PROJECT.

SCOPE OF T.I. MODIFICATION

- SCOPE OF INTERIOR MODIFICATIONS TO THE PUBLIC AREAS TO INCLUDE THE FOLLOWING:
1. CIRCULAR SOFFIT AREAS ABOVE THE CIRCULAR FURNITURE LAYOUT TO BE MODIFIED/ REMOVED.
 2. EXTEND EXISTING SUSPENDED CEILING GRID TO FILL AREAS WHERE SOFFIT IS REMOVED.
 3. REMOVE TRACK LIGHTING AND DIRECTIONAL LIGHTING THAT HIGHLIGHTED EXISTING MARKETING DISPLAYS THAT WILL BE REMOVED.
 4. ADD LIGHTING TO MATCH EXISTING TO EXTEND THE EXISTING LIGHTING PATTERN IN MODIFIED CEILING AREAS. RELOCATE/ ADD PENDANTS AS NOTED.
 5. MODIFY EXISTING MECHANICAL ONLY AS REQUIRED TO ENSURE PROPER SUPPLY AND RETURN TO AREAS MODIFIED WITH NEW FURNITURE LOCATIONS, WALL LOCATIONS, OR ENCLOSED AS SEPARATE ROOMS.
 6. MODIFY EXISTING POWER SUPPLY ONLY TO ACCOMMODATE NEW INTERIOR SIGNAGE, ATM, AND VAULT AND/OR MFD ADDITIONS/ RELOCATIONS, THE SHIFT IN WORKSTATIONS, TELLER LINES, NEW AND/OR REMOVED WALLS OR PARTIAL WALLS AND AS REQUIRED FOR POWER SUPPLY TO WINDOW SHADES (AS NOTED).
 7. FLOOR FINISHES TO BE REMOVED AND REPLACED AS NOTED - CORRESPONDING TO NEW FURNITURE AND TELLER LINE LAYOUT.
 8. ATM, AHD, N/D, PACKAGE RECEIVER, AND VAULTS MAY BE RELOCATED/ NEW AS NOTED ON PLANS.
 9. ADD/ MODIFY VESTIBULE AS IDENTIFIED ON PLAN.
 10. ALL WORK IS REQUIRED TO BE PERFORMED AFTER BANKING HOURS (NIGHT AND WEEKENDS). THE BRANCH WILL BE IN OPERATION.
 11. NO PLUMBING WORK.

CODE DATA

JURISDICTION:
 CITY OF MIAMI BEACH
 BUILDING DEPARTMENT
 ATTN: RASHONDA WILSON
 CONVENTION CENTER DRIVE
 MIAMI BEACH, FLORIDA 33139
 T: 305.673.7610 EXT. 6621

BUILDING CODE

- 2001 FLORIDA BUILDING CODE
- 2001 FLORIDA MECHANICAL CODE
- 2001 FLORIDA PLUMBING CODE
- 2001 NATIONAL ELECTRIC CODE
- 2001 FLORIDA BUILDING CODE CH. II
- 2001 FLORIDA BUILDING CODE CH. 13
- 2001 FLORIDA FIRE PREVENTION CODE

OCCUPANCY: - BUSINESS GROUP B

CONSTRUCTION TYPE: - TYPE V-B - UNPROTECTED

HEIGHT LIMITATION: - 2-STORIES

ALLOWABLE AREA: 9,000 SF.
 TOTAL BUILDING: 29,030 SF.
 TOTAL BRANCH: 1,200 SF.
 AREA OF MODIFICATIONS: 4,321 SF.

TOTAL OCCUPANT LOAD (BUSINESS)
 1,200 SF/100 SF PER OCCUPANT = 12

TOTAL EXITS REQUIRED: 2
TOTAL EXITS PROVIDED: 2

TOTAL WIDTH REQUIRED OF ALL EXITS: 72 X 2 = 144 INCHES
TOTAL WIDTH PROVIDED OF ALL EXITS: (32" X 36" X 108 INCHES)

MAXIMUM TRAVEL DISTANCE, FBC SEC. 1016: 200 FT.

COMMON PATH OF TRAVEL, FBC SEC. 1014.3: 15 FT.

FIRE RESISTANCE RATINGS OF STRUCTURAL ELEMENTS
 TABLE 601 TYPE V-B CONSTRUCTION

1. EXTERIOR WALLS: 0 HR
 LOAD BEARING: 0 HR
 NON-LOAD BEARING: NA

2. FIREWALLS: NA

3. FIRE SEPARATION ASSEMBLIES: EXITS: NA
 SHAFTS: NA
 MIXED USE: NA
 OTHERS: NA

4. FIRE PARTITIONS: NA

5. DWELLING UNIT SEPARATION: NA

6. SMOKE BARRIERS: NA
 SMOKE PARTITIONS: NA

7. NONBEARING PARTITIONS: 0 HR

8. INTERIOR BEARING WALLS: 0 HR

9. STRUCTURAL MEMBERS: 0 HR

10. FLOOR CONSTRUCTION: 0 HR

11. ROOF CONSTRUCTION: 0 HR

NOTE: THIS BUILDING IS NOT SPRINKLERED AND DOES NOT HAVE A FIRE ALARM

PROJECT INFORMATION

TENANT

J.P. MORGAN CHASE BANK
 CHASE TOWER
 MAIL CODE IL1-0475
 TELEPHONE: (312) 325-3373
 FAX: (312) 325-3385

PROJECT MANAGEMENT COMPANY

MEMEMSHA
 ATTN.: BECKY BEDWELL
 169 LIBBEY PKWY.
 WEYMOUTH, MA 02189
 TELEPHONE: (781) 337-9012
 FAX: (775) 637-9932

ARCHITECT

INTERPLAN, LLC
 ATTN.: LOUISE CRAVER
 933 LEE ROAD, FIRST FLOOR
 ORLANDO, FL 32810
 TELEPHONE: (407) 645-5008
 FAX: (407) 644-0673

MECHANICAL AND ELECTRICAL ENGINEER

INTERPLAN, LLC
 ATTN.: JERRY RUSSO
 933 LEE ROAD, FIRST FLOOR
 ORLANDO, FL 32810
 TELEPHONE: (407) 645-5008
 FAX: (407) 644-0673

LEGAL DESCRIPTION

ISLAND VIEW SUB FB 6-115 E50FT OF LOT 6 + LOT 10 LESS N20FT + ALL LOT 11 BLK 11 LOT 912
 IRREGULAR OR 14848-51290 L

PARCEL ID NUMBER IS 02-3233-012-0090

REVISION ISSUE LOG

REV #	ISSUE DATE	DESCRIPTION	AFFECTED SHEETS	REMARKS	BY
	03-11-09	ISSUED FOR OWNER REVIEW	ALL SHEETS		RS
	04-30-09	ISSUED FOR PERMIT	ALL SHEETS		RS
1	06-10-09	PERMIT COMMENTS - BLDG DEPARTMENT	A0.0, E0.0, E1.0, E2.0, E4.0	PMT-01	AP
2	06-10-09	OWNER REVISIONS	A0.0A, A0.0B, A1.0, A1.0A, A1.1, A1.2, A1.3, A2.0, A3.0, A3.1, A3.2, E1.0, E2.0, E3.0, M1.0	MODEL E CONVERSION	RS
	06-10-09	ISSUE FOR CHASE REVIEW	ALL SHEETS		RS
3	06-30-09	OWNER REVISIONS	A1.0, A1.1, A1.2, A3.1, A3.2		DJC
4	07-28-09	PERMIT COMMENTS	A1.1, A3.1, A3.2		DJC
5	10-05-09	PERMIT COMMENTS	A0.0, A1.1, A2.0, A3.1, E1.0	PMT03	EW
6	12-03-09	OWNER REVISIONS	A1.0, A1.0A, A1.1, A1.2, A1.3, A2.0, A3.0, A3.1, M1.0, E1.0, E2.0, E3.0		EW
7	03-22-10	PERMIT COMMENTS	A0.0, A0.0A, A1.0A, A2.0, E0.0, E1.0	PMT04	WB

INTERPLAN LLC
 ARCHITECTURE
 ENGINEERING
 INTERIOR DESIGN
 PROJECT MANAGEMENT

AA 003420
 CA8660

933 LEE ROAD, FIRST FLOOR
 ORLANDO, FLORIDA 32810
 PH 407.645.5008
 FX 407.629.9124

SEAL:

HARVEY JACOBY
 MAR 22 2010

CONSULTANT:

REVISIONS:

NO. DATE REMARKS
 1 06-10-09 PERMIT COMMENTS
 5 10-05-09 PERMIT COMMENTS
 7 03-22-10 PERMIT COMMENTS

CHASE
 INTERIOR REBRANDING CONVERSION
 MIAMI BEACH - ALTON ROAD
 WAMU BLDG ID# 1924 CHASE STORE ID# 1742
 1801 ALTON ROAD
 MIAMI, FL 33139

OFFICE COPY

CITY OF MIAMI BEACH
 APPROVED FOR PERMIT BY
 THE FOLLOWING:

BUILDING: [Signature]
 ZONING: [Signature]
 DRB/HPB: _____
 CONCURRENCY: _____
 PLUMBING: _____
 ELECTRICAL: [Signature]
 MECHANICAL: [Signature]
 FIRE PREVENTION: [Signature]
 ENGINEERING: [Signature]
 PUBLIC WORKS: [Signature]
 STRUCTURAL: _____
 ELEVATOR: _____

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 PROHIBITED.

PROJECT NO: 2009.0109
 DATE: 04-30-09

A0.0
 COVER SHEET

DRAWN BY: [Signature]
 CHECKED BY: [Signature]

CHASE INTERIOR REBRANDING CONVERSION



MIAMI BEACH-ALTON ROAD

CHASE STORE ID #1742

WAMU BLDG. ID #1924

1801 ALTON ROAD

MIAMI BEACH, FL 33139

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- PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL EXISTING ABOVE AND BELOW GRADE UTILITIES, INCLUDING SANITARY SEWER, STORM SEWER, WATER, GAS, ELECTRICAL, TELEPHONE, ETC. ANY DISCREPANCIES IN UTILITY LOCATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL BUILDING DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY VARIANCE OR DISCREPANCY AFFECTING NEW CONSTRUCTION PRIOR TO PROCEEDING WITH WORK.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING IN WALLS FOR SUPPORT OF ALL RELOCATED/ NEW EQUIPMENT, SHELVING, ACCESSORIES AND OTHER DEVICES REQUIRED.
- ALL PENETRATIONS SHALL RECEIVE CAULKING TO SEAL ANY TYPE OF ENERGY LOSS.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL APPLICABLE DIMENSIONS OF FIXTURES AND EQUIPMENT SUPPLIED AND/OR INSTALLED BY OTHERS.
- UPON COMPLETION OF PROJECT, OBTAIN ALL FINAL INSPECTIONS AS REQUIRED BY LOCAL JURISDICTIONS AND FURNISH OWNER WITH EVIDENCE OF ALL SUCH INSPECTIONS AND CERTIFICATES OF OCCUPANCY.
- ALL MEANS OF EGRESS AND FIRE PROTECTION SHALL BE MAINTAINED AT ALL TIMES AND ANY SHUT DOWN OF LIFE SAFETY OR BUILDING SYSTEMS SHALL BE APPROVED AND COORDINATED IN ADVANCE WITH THE OWNER AND LOCAL BUILDING DEPARTMENT.
- GENERAL CONTRACTOR TO PROVIDE DAILY TRASH REMOVAL. NO DUMPSTERS/ STORAGE CONTAINERS WILL BE ALLOWED ON SITE.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE OWNER'S VENDORS ON SITE DURING CONSTRUCTION.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL THE UTILITY SERVICES FOR THE PROJECT.

LEGAL DESCRIPTION

ISLAND VIEW SUB FB 6-115 E20FT OF LOT 6 4 LOT 10 LESS N2.8FT 4 ALL LOT 11 BLK 11 LG SIZE IRREGULAR OR 14848-911290 1.

PARCEL ID NUMBER IS 02-3233-012-0030.

SCOPE OF T.I. MODIFICATION

- SCOPE OF INTERIOR MODIFICATIONS TO THE PUBLIC AREAS TO INCLUDE THE FOLLOWING:
- CIRCULAR SOFFIT AREAS ABOVE THE CIRCULAR FURNITURE LAYOUT TO BE MODIFIED/ REMOVED.
 - EXTEND EXISTING SUSPENDED CEILING GRID TO FILL AREAS WHERE SOFFIT IS REMOVED.
 - REMOVE TRACK LIGHTING AND DIRECTIONAL LIGHTING THAT HIGHLIGHTED EXISTING MARKETING DISPLAYS THAT WILL BE REMOVED.
 - ADD LIGHTING TO MATCH EXISTING TO EXTEND THE EXISTING LIGHTING PATTERN IN MODIFIED CEILING AREAS. RELOCATE/ ADD PENDANTS AS NOTED.
 - MODIFY EXISTING MECHANICAL ONLY AS REQUIRED TO ENSURE PROPER SUPPLY AND RETURN TO AREAS MODIFIED WITH NEW FURNITURE LOCATIONS, WALL LOCATIONS, OR ENCLOSED AS SEPARATE ROOMS.
 - MODIFY EXISTING POWER SUPPLY ONLY TO ACCOMMODATE NEW INTERIOR SIGNAGE, ATM, AHD, VAULT AND/ OR MFD. ADDITIONS/ RELOCATIONS, THE SHIFT IN WORKSTATIONS, TELLER LINES, NEW AND/OR REMOVED WALLS OR PARTIAL WALLS AND AS REQUIRED FOR POWER SUPPLY TO WINDOW SHADES (AS NOTED).
 - FLOOR FINISHES TO BE REMOVED AND REPLACED AS NOTED - CORRESPONDING TO NEW FURNITURE AND TELLER LINE LAYOUT.
 - ATM, AHD, N/D, PACKAGE RECEIVER, AND VAULTS MAY BE RELOCATED/ NEW AS NOTED ON PLANS.
 - ADD/ MODIFY VESTIBULE AS IDENTIFIED ON PLAN.
 - ALL WORK IS REQUIRED TO BE PERFORMED AFTER BANKING HOURS (NIGHT AND WEEKENDS). THE BRANCH WILL BE IN OPERATION.
 - NO PLUMBING WORK.

REVISION ISSUE LOG

REV #	ISSUE DATE	DESCRIPTION	AFFECTED SHEETS	REMARKS	BY
	03-11-09	ISSUED FOR OWNER REVIEW	ALL SHEETS		RS
	04-30-09	ISSUED FOR PERMIT	ALL SHEETS		RS
1	06-10-09	PERMIT COMMENTS - BLDG DEPARTMENT	A0.0, E0.0, E1.0, E2.0, E4.0	PMT-01	AP
2	06-10-09	OWNER REVISIONS	A0.0, A0.0B, A1.0, A1.0A, A1.1, A1.2, A1.3, A2.0, A3.0, A3.1, A3.2, E1.0, E2.0, E3.0, M1.0	MODEL E CONVERSION	RS
	06-10-09	ISSUE FOR CHASE REVIEW	ALL SHEETS		RS
3	06-30-09	OWNER REVISIONS	A1.0, A1.1, A1.2, A3.1, A3.2		DJC
4	07-28-09	PERMIT COMMENTS	A1.1, A3.1, A3.2		DJC
5	10-05-09	PERMIT COMMENTS	A0.0, A1.1, A2.0, A3.1, E1.0	PMT03	EW
6	12-03-09	OWNER REVISIONS	A1.0, A1.0A, A1.1, A1.2, A1.3, A2.0, A3.0, A3.1, M1.0, E1.0, E2.0, E3.0		EW

CODE DATA

JURISDICTION: CITY OF MIAMI BEACH BUILDING DEPARTMENT
ATTN: RASHONDA WILSON/100 CONVENTION CENTER DRIVE MIAMI BEACH, FLORIDA 33139
T: 305.613.1610 EXT. 6621

BUILDING CODE
2007 FLORIDA BUILDING CODE
2007 FLORIDA PLUMBING CODE
2007 FLORIDA MECHANICAL CODE
2008 NATIONAL ELECTRIC CODE
2001 FLORIDA BUILDING CODE CH. II
2007 FLORIDA BUILDING CODE CH. 13
2001 FLORIDA FIRE PREVENTION CODE

NOTE: THIS BUILDING IS NOT SPRINKLERED AND DOES NOT HAVE A FIRE ALARM

OCCUPANCY: - BUSINESS GROUP B

CONSTRUCTION TYPE: TYPE V-B - UNPROTECTED
HEIGHT LIMITATION: 2 STORIES
ALLOWABLE AREA: 9,200 SF.
TOTAL BUILDING: 25,030 SF.
TOTAL BRANCH: 12,208 SF.
AREA OF MODIFICATIONS: 4,327 SF.

TOTAL OCCUPANT LOAD (BUSINESS)
1208 SF/100 SF PER OCCUPANT = 12

TOTAL EXITS REQUIRED = 2
TOTAL EXITS PROVIDED = 2

TOTAL WIDTH REQUIRED OF ALL EXITS = (12" X 2) = 24" INCHES
TOTAL WIDTH PROVIDED OF ALL EXITS = (12" X 36") = 432" INCHES

MAXIMUM TRAVEL DISTANCE, FBC SEC. 1016: 200 FT.

COMMON PATH OF TRAVEL, FBC SEC. 1014.3: 15FT.

FIRE RESISTANCE RATINGS OF STRUCTURAL ELEMENTS
TABLE 601 TYPE V-B CONSTRUCTION

1. EXTERIOR WALLS	2 0/0	1 1/2
2. FIRE WALLS	2 0/0	1 1/2
3. FIRE SEPARATION ASSEMBLIES: EXITS, SHAFTS, MIXED USE, OTHERS:	NA	NA
4. FIRE PARTITIONS	NA	NA
5. DWELLING UNIT SEPARATION	NA	NA
6. SMOKE BARRIERS	NA	NA
7. SMOKE PARTITIONS	0 HR	0 HR
8. INTERIOR BEARING WALLS	0 HR	0 HR
9. STRUCTURAL MEMBERS	0 HR	0 HR
10. FLOOR CONSTRUCTION	0 HR	0 HR
11. ROOF CONSTRUCTION	0 HR	0 HR

PUBLIC WORKS PLAN REVIEW NOTICE
Phone 305-678-7080 Fax 305-673-7028

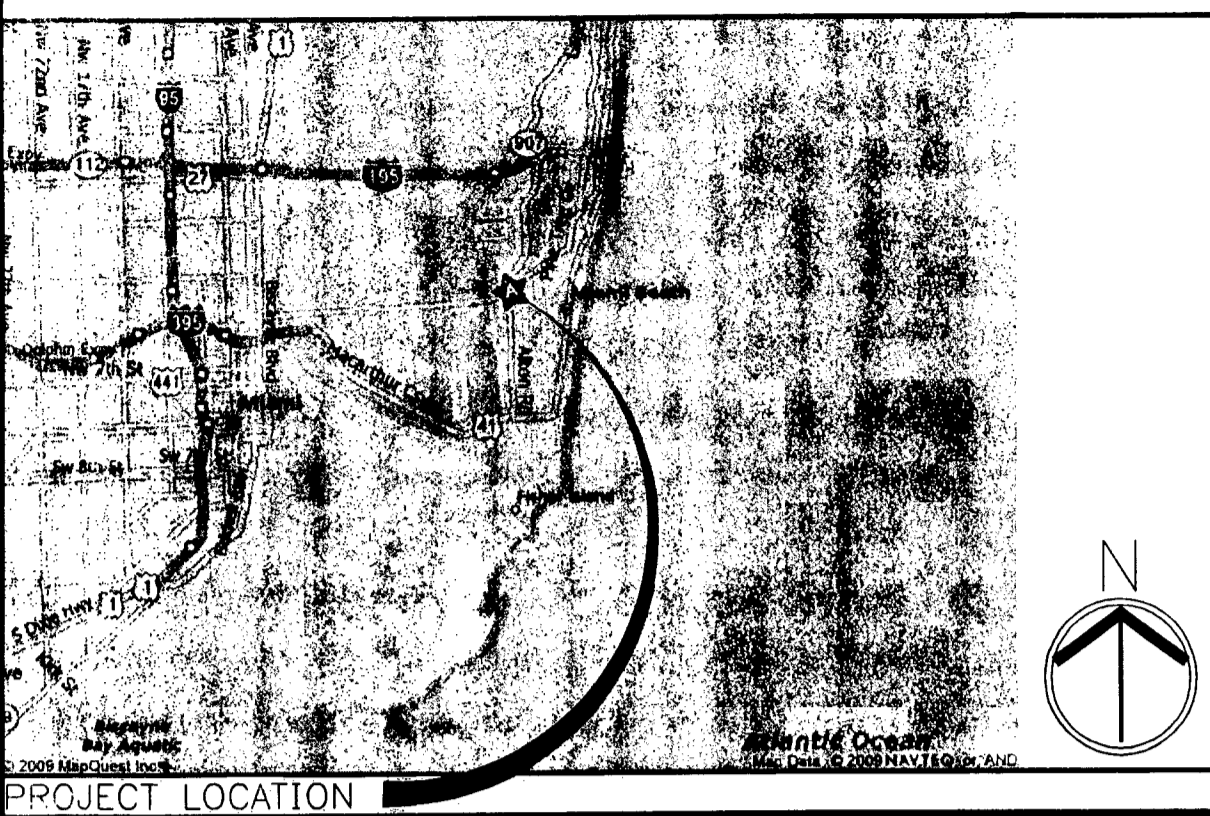
THIS PLAN REVIEW CONSTITUTES APPROVAL FOR OBTAINING BUILDING PERMITS ONLY.

Construction and/or use of equipment in the right-of-way and/or easements, requires a separate Public Works Department permit to start of construction.

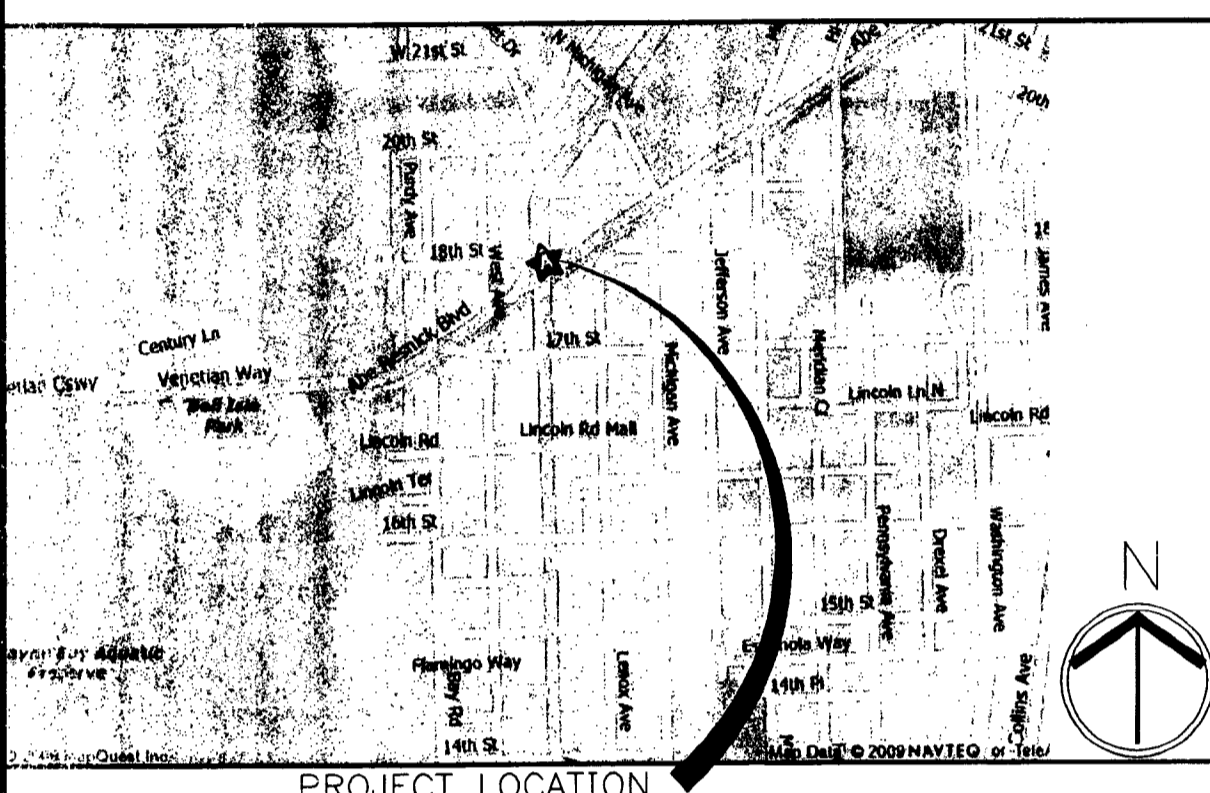
Permit Requirements: Proof of existing sidewalk/swale area conditions (pictures) and/or posting of sidewalk/roadway bonds (Public Works Inspection of the right-of-way will be required prior to final sign-off on the C.C./C.O., or the release of bonds.)

Approved/Reviewed By: *[Signature]* Date: 02-19-10

VICINITY MAP



LOCATION MAP



DRAWING INDEX

- ARCHITECTURAL
- A0.0 DRAWING INDEX, MAPS, PROJ. INFO
 - A0.0A RESPONSIBILITY SCHEDULE
 - A0.0B CONSTRUCTION PHASING PLAN - FOR REFERENCE ONLY
 - A1.0 DEMOLITION PLAN
 - A1.0A DEMOLITION CEILING PLAN
 - A1.1 FLOOR PLAN
 - A1.2 FINISH PLAN
 - A1.3 FURNITURE PLAN
 - A2.0 REFLECTED CEILING PLAN
 - A3.0 INTERIOR ELEVATIONS, SECTIONS, AND DETAILS
 - A3.1 INTERIOR ELEVATIONS, SECTIONS, AND DETAILS
 - A3.2 INTERIOR ELEVATIONS, SECTIONS, AND DETAILS
- MECHANICAL
- M0.0 HVAC NOTES, SPECIFICATIONS AND DETAILS
 - M1.0 HVAC FLOOR PLAN
- ELECTRICAL
- E0.0 ELECTRICAL SPECIFICATIONS
 - E1.0 ELECTRICAL PLAN - LIGHTING
 - E2.0 ELECTRICAL PLAN - POWER
 - E3.0 ELECTRICAL PLAN - SYSTEMS
 - E4.0 ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES ¹

PROJECT INFORMATION

TENANT
J.P. MORGAN CHASE BANK
CHASE TOWER
MAIL CODE 1L1-0475
TELEPHONE: (312) 325-3373
FAX: (312) 325-3385

PROJECT MANAGEMENT COMPANY
MENEMSHA
ATTN: BECKY BEDWELL
169 LIBBEY PKW.
WEYMOUTH, MA 02189
TELEPHONE: (781) 337-9012
FAX: (775) 637-9932

ARCHITECT
INTERPLAN, LLC
ATTN: LOUISE CRAVER
933 LEE ROAD, FIRST FLOOR
ORLANDO, FL 32810
TELEPHONE: (407) 645-5008
FAX: (407) 644-0673

MECHANICAL AND ELECTRICAL ENGINEER
INTERPLAN, LLC
ATTN: JERRY RUSSO
933 LEE ROAD, FIRST FLOOR
ORLANDO, FL 32810
TELEPHONE: (407) 645-5008
FAX: (407) 644-0673

OFFICE COPY CITY OF MIAMI BEACH APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING: *[Signature]*
ZONING: *[Signature]*
DRY/IRI: *[Signature]*
CONCURRENCY: *[Signature]*
PLUMBING: *[Signature]*
ELECTRICAL: *[Signature]*
MECHANICAL: *[Signature]*
FIRE PREVENTION: *[Signature]*
ENGINEERING: *[Signature]*
PUBLIC WORKS: *[Signature]*
STRUCTURAL: *[Signature]*
ELEVATOR: *[Signature]*

INTERPLAN, LLC

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN
PROJECT MANAGEMENT

AA 003420
CA8660

933 LEE ROAD, FIRST FLOOR
ORLANDO, FLORIDA 32810
PH 407.645.5008
FX 407.629.9124

SEAL: *[Signature]*
HARVEY JACOBY
DEC 7 2009

CONSULTANT:

REVISIONS:
NO. DATE REMARKS
1 05-18-09 PERMIT COMMENTS
5 10-05-09 PERMIT COMMENTS

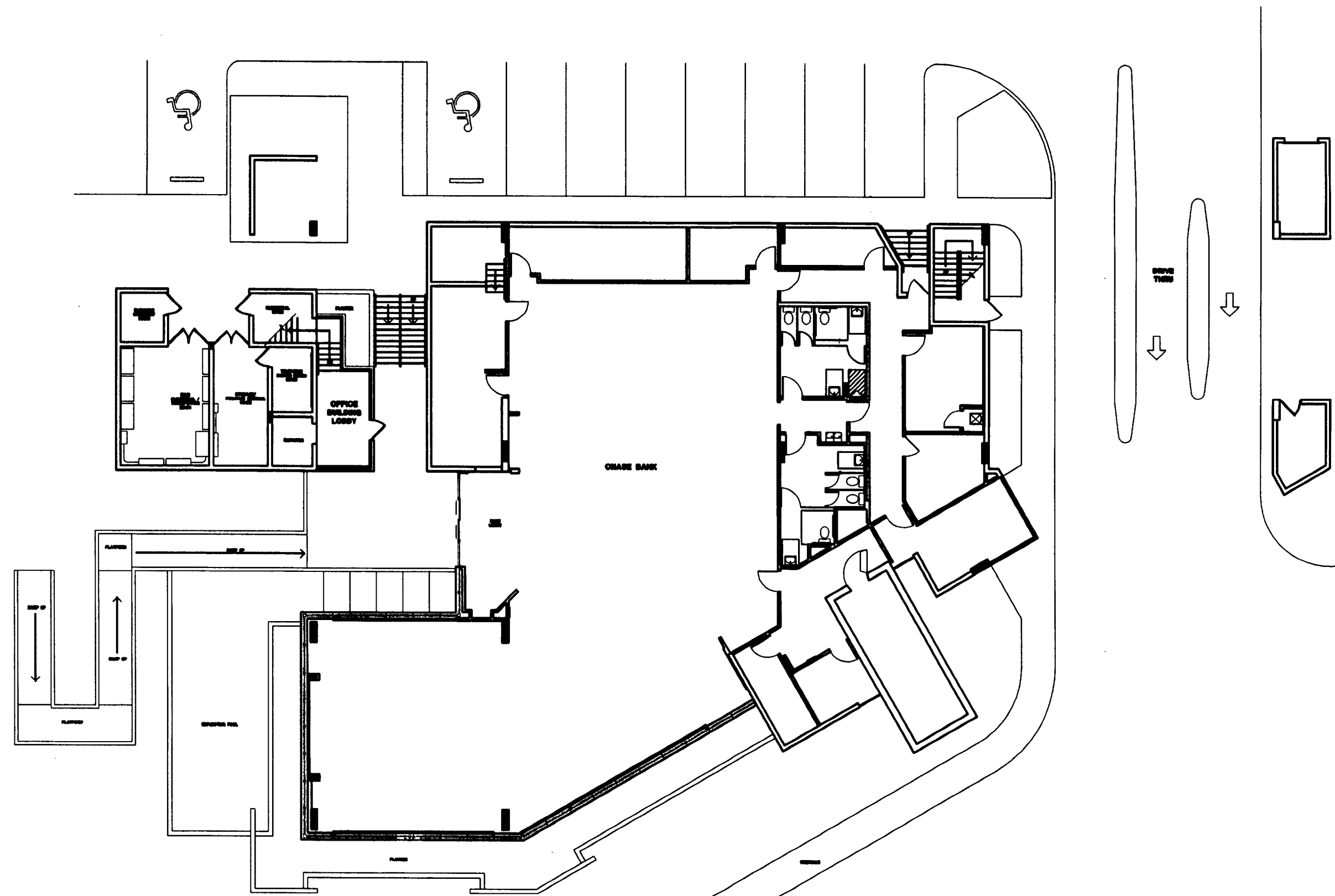
CHASE
 INTERIOR REBRANDING CONVERSION
 MIAMI BEACH - ALTON ROAD
 WAMU BLDG ID# 1924 CHASE STORE ID# 1742
 1801 ALTON ROAD
 MIAMI, FL 33139

CHASE
 INTERIOR REBRANDING CONVERSION
 MIAMI BEACH - ALTON ROAD
 WAMU BLDG ID# 1924 CHASE STORE ID# 1742
 1801 ALTON ROAD
 MIAMI, FL 33139

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 PROJECT NO: 2009.0109
 DATE: 04-30-09

A0.0
COVER SHEET

02-19-10
 DRAWN BY: *[Signature]*
 CHECKED BY: *[Signature]*



1 KEY PLAN
NOT TO SCALE

KEY PLAN FOR GENERAL REFERENCE ONLY



2 AERIAL VIEW
NOT TO SCALE

Chase/WaMu Rebrand Responsibility Schedule		PMC Supplied	PMC Installed	GC Supplied	GC Installed
Demo	Demolition			*	*
	Daily carting/hauling			*	*
	Daily cleaning - ready for Bank Operations			*	*
	Final Cleaning			*	*
	Demo of all WaMu Marketing/Branding interior			*	*
Doors & Windows	Interior doors			*	*
	Glass/glazing, Aluminum entry doors			*	*
	BR Doors	*			*
Finishes	Carpet	*			*
	Pedimat	*			*
	Walk off carpet tiles	*			*
	VCT			*	*
	Wood Floor	*			*
	Ceramic Tile	*			*
	Ceiling			*	*
	Base			*	*
	Paint			*	*
	Wall covering	*			*
Equipment	BR Glass	*	*		
	Kevlar panels	*			*
	ATM Rigging	*	*		
Fire Protection	Sprinkler work			*	*
Electric	Light fixtures	*			*
	All other labor and material			*	*
Low Voltage Cabling	Insight	*	*		
Security	ADT	*	*		
Furniture	Chairs	*	*		
	Steelcase Work Stations	*	*		
	Work Station Panels	*	*		
	Coffee table	*	*		
	End table	*	*		
	Teller counter	*	*		
	CSC	*	*		
	TCD	*	*		
	KMDI Mock Soffit	*			*
	KMDI Illuminated Soffit	*			*
	Check Desk	*	*		
	Window Shades Blinds	*	*		
	Curtains	*	*		
Queue Ropes	*	*		*	
Large Cash Vault	*	*		*	
After Hours Depository	*	*		*	
Package Receiver	*	*		*	
Large Safe	*	*		*	

GC is responsible to verify schedule with all PMC/Chase Service providers
 Note: Not all items indicated above may apply - confirm with PMC/ Chase Service providers.

INTERPLAN LLC
 ARCHITECTURE
 ENGINEERING
 INTERIOR DESIGN
 PROJECT MANAGEMENT

AA 003420
 CA8660
 933 LEE ROAD, FIRST FLOOR
 ORLANDO, FLORIDA 32810
 PH 407.645.5008
 FX 407.629.9124

SEAL:

 HARRY JACOBY
 M.A.S. 2. 2.03

CONSULTANT:

REVISIONS:
 NO. DATE REMARKS
 2 06-09-09 OWNER REVISIONS
 7 03-22-10 PERMIT COMMENTS

CHASE
 INTERIOR REBRANDING CONVERSION
 MIAMI BEACH - ALTON ROAD
 WAMU BLDG ID# 1924 CHASE STORE ID# 1742
 1801 ALTON ROAD
 MIAMI, FL 33139

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 PROJECT NO: 2009.0109
 DATE: 04-30-09

A0.0A
 RESPONSIBILITY
 SCHEDULE

DRAWN BY:
 CHECKED BY: LRM/eb