

Section/Table/Note/Title

EXIT REQUIREMENTS
NUMBER AND ARRANGEMENT OF EXITS

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM NUMBER OF EXITS		TRAVEL DISTANCE	EGRESS (SECTION 1015.2.1) ARRANGEMENT MEANS OF		
	REQUIRED	SHOWN ON PLANS		ALLOWABLE TRAVEL DISTANCE (TABLE 1016.1)	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS
OFFICE	2	2	300'	135'	58'	160'

EXIT WIDTH

USE GROUP OR SPACE DESCRIPTION	(A)		(B)	(C)		EXIT WIDTH (in)	
	AREA SQ. FT.	AREA OF IMPACT (TABLE 1004.1.1)	AREA PER OCCUPANT LOAD (TABLE 1004.1.1)	CALCULATED PER OCCUPANT LOAD	EGRESS WIDTH PER OCCUPANT (TABLE 1005.1)	REQUIRED WIDTH (SECTION 1005.1) (a1/b)xc	ACTUAL WIDTH SHOWN ON PLANS
OFFICE	35414	4998	180	58	N/A	10'	99'

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING (NO CHANGE MADE TO EXISTING PARKING)
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" AISLE ACCESS	8' AISLE ACCESS	
TOTAL						

STRUCTURAL DESIGN

DESIGN LOADS:

Importance Factors: Wind (IW) _____
 Snow (IS) _____
 Seismic (IE) _____

Live Loads: Roof _____ psf
 Mezzanine _____ psf
 Floor _____ psf

Ground Snow Load: _____ psf

Wind Load: Basic Wind Speed _____ mph (ASCE-7)
 Exposure Category _____
 Wind direction (FFS) _____ Vx = _____ Vy = _____

SEISMIC DESIGN CATEGORY:

Provide the following Seismic Design Parameters:

Occupancy Category (Table 1601) I II III IV

Spectral Response Acceleration Coefficient (SS) _____ %g S1 _____ %g

Site Classification (Table 16.3.3.2) A B C D E F

Data Source: Field Test Presumptive Historical Data

Basic structural system (check one):
 Bearing Wall Dual w/Special Moment Frame
 Building Frame Dual w/Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum

Seismic base shear: Vx = _____ Vy = _____

Analysis Procedure: Simplified Equivalent Lateral Force Dynamic

Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind

SOIL BEARING CAPACITIES:

Field Test (provide copy of test report) _____ psf

Presumptive Bearing capacity _____ psf

Pile size, type, and capacity _____

SPECIAL INSPECTIONS REQUIRED: Yes No

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1) (NO CHANGES MADE TO PLUMBING FIXTURE REQUIREMENTS. ACCESSIBLE BATHROOM IS LOCATED ACROSS FROM COLUMN C3, SEE B0A1).

USE	WATERCLOSETS		URINALS	LAVATORIES		SHOWERS/TUBS	DRINKING FOUNTAINS	
	MALE	FEMALE		MALE	FEMALE		REGULAR	ACCESSIBLE
BUILDING EXISTING								
BUILDING NEW								
BUILDING REQUIRED								

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, Fire, DHHS, ICC, etc., describe below)

ENERGY SUMMARY

ENERGY REQUIREMENTS:

THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET.

IF PERFORMANCE METHOD, STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

Climate Zone: 3 4 5

Method of Compliance:
 Prescriptive (Energy Code)
 Performance (Energy Code)
 Prescriptive (ASHRAE 90.1)
 Performance (ASHRAE 90.1)

THERMAL ENVELOPE

Roof/Ceiling Assembly (each assembly)

Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Skylights in each assembly: _____
 U-Value of skylight: _____
 Total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)

Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Openings (windows or doors with glazing): _____
 U-Value of opening: _____
 Solar heat gain coefficient: _____
 Projected factor: _____
 Door R-Values: _____

Walls below grade (each assembly)

Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____

Floors over unconditioned space (each assembly)

Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____

Floors slab on grade

Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Horizontal/vertical requirement: _____
 Slab heated: _____

Section 502.4.3 Sealing of Building Envelope [Indicate where details are in the set]

Joint around fenestration and door frames
 Junction between walls and foundations, walls at building corners, walls and structural floors or roofs, walls and roof or wall panels.
 Openings at penetrations of utility services through roofs, walls, and floors including but not limited to electrical, plumbing, mechanical, security and communications.
 Site-built fenestration and doors.
 Joints, seams and penetrations of air barrier system.
 Other openings in the building envelope.

Samples of construction details are available in Appendix 2.1

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone

winter dry bulb: _____
 summer dry bulb: _____

Interior design conditions

winter dry bulb: _____
 summer dry bulb: _____
 relative humidity: _____

Building heating load: _____

Building cooling load: _____

Mechanical Space Conditioning Units

description of unit: _____
 heating efficiency: _____
 cooling efficiency: _____
 size category of unit: _____

Boiler

Size category. If oversized, state reason: _____

Chiller

Size category. If oversized, state reason: _____

List equipment efficiencies: _____

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance:
 Energy Code: Prescriptive Performance
 ASHRAE 90.1: Prescriptive Performance

Lighting schedule (each fixture type)

lamp type required in fixture _____
 number of lamps in fixture _____
 ballast type used in the fixture _____
 number of ballasts per fixture _____
 total wattage per fixture _____
 total interior wattage proposed vs. allowed (whole building or space by space) _____
 total exterior wattage proposed vs. allowed _____

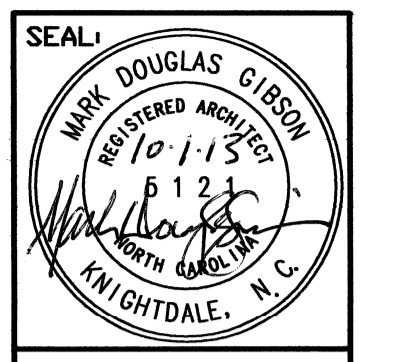
Additional Prescriptive Compliance:

506.2.1 More Efficient Mechanical Equipment
 506.2.2 Reduced Lighting Power Density
 506.2.3 Energy Recovery Ventilation Systems
 506.2.4 Higher Efficiency Service Water Heating
 506.2.5 On-Site Supply of Renewable Energy
 506.2.6 Automatic Daylighting Control Systems

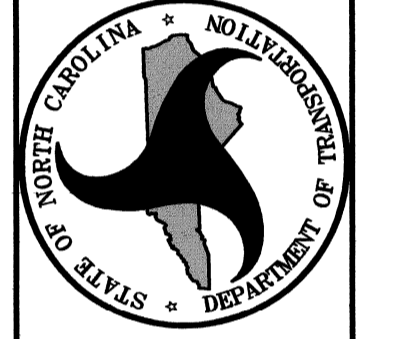
SEE ELECTRICAL DRAWINGS

NOT APPLICABLE TO THIS PROJECT

NOT APPLICABLE TO THIS PROJECT



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DIVISION 11 EQUIPMENT SHOP OFFICE UPFIT
 HIGHWAY DIVISION 11, NCDOT
 WILKES COUNTY, NORTH CAROLINA

STATE CONSTRUCTION ID.# 13-10023-01A

ASSET NUMBER 97-03-41

REVISIONS

NO.	DATE

DATE ISSUED: 08-02-13

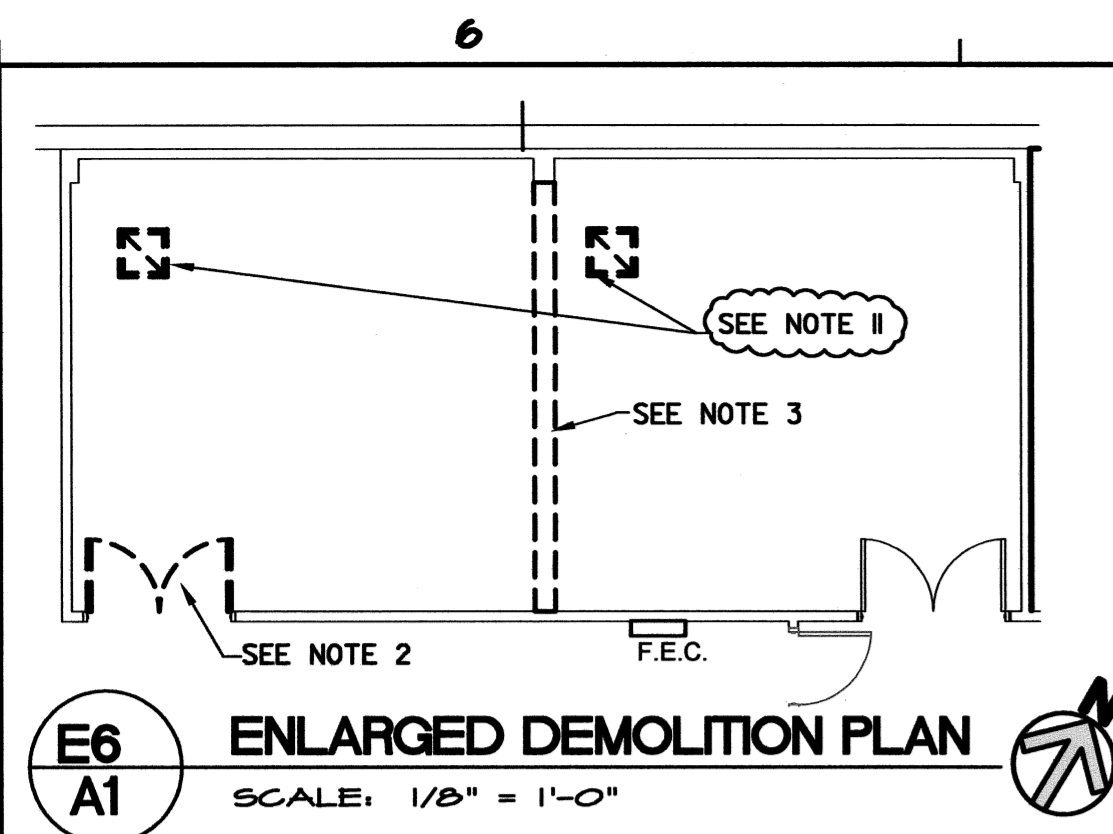
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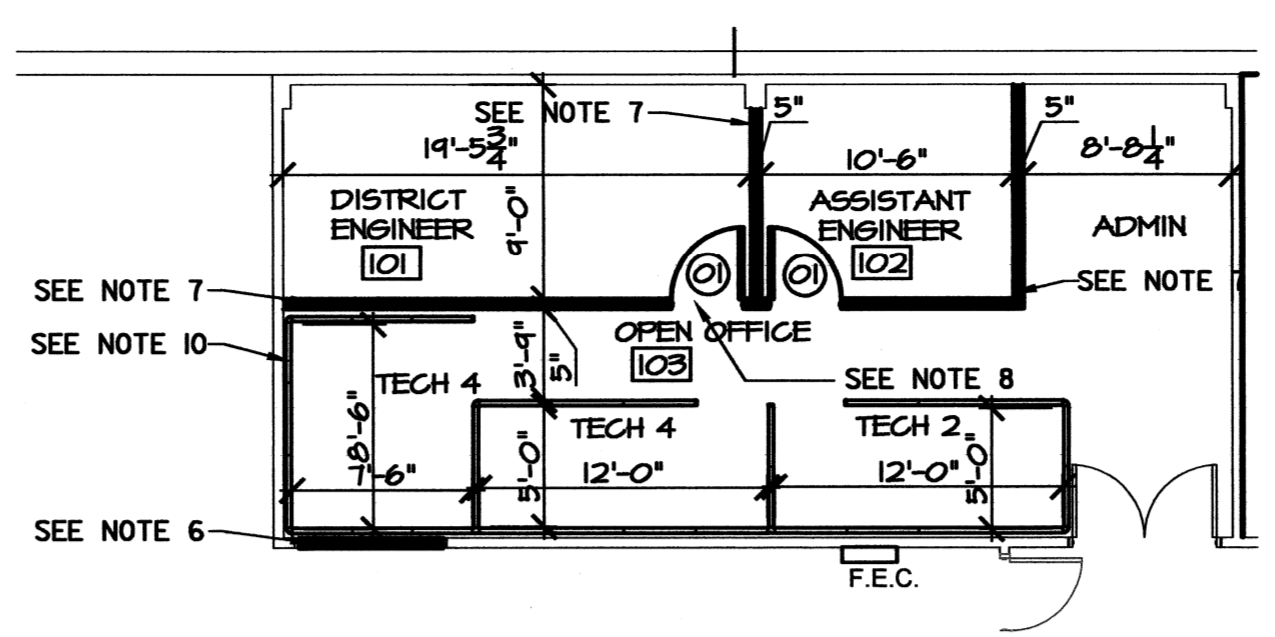
SHEET CONTENTS: CODE SUMMARY

SHEET NO. T2

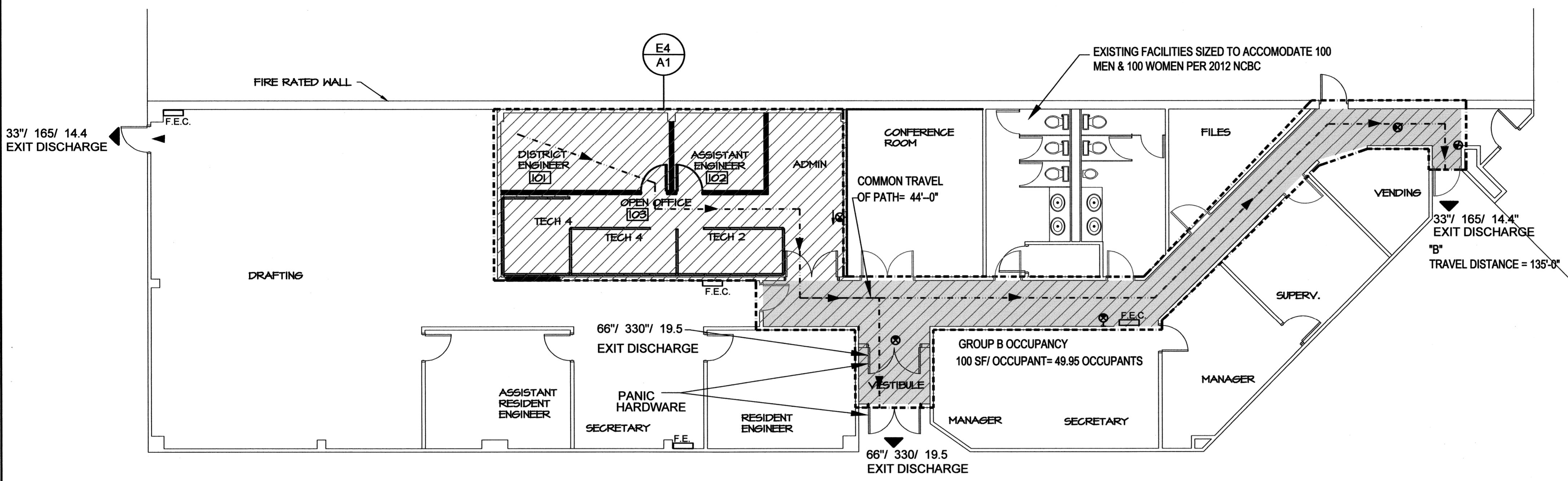
1 OF 22



LEGEND- DEMO (PLAN E6/A1):
 REMOVE DOOR - SEE NOTE 1



LEGEND- PROPOSED (E4/A1):
 NEW WALL- SEE NOTE 7
 NEW CUBICLE PANELS- SEE NOTE 10
 NEW DOOR- SEE NOTE 8



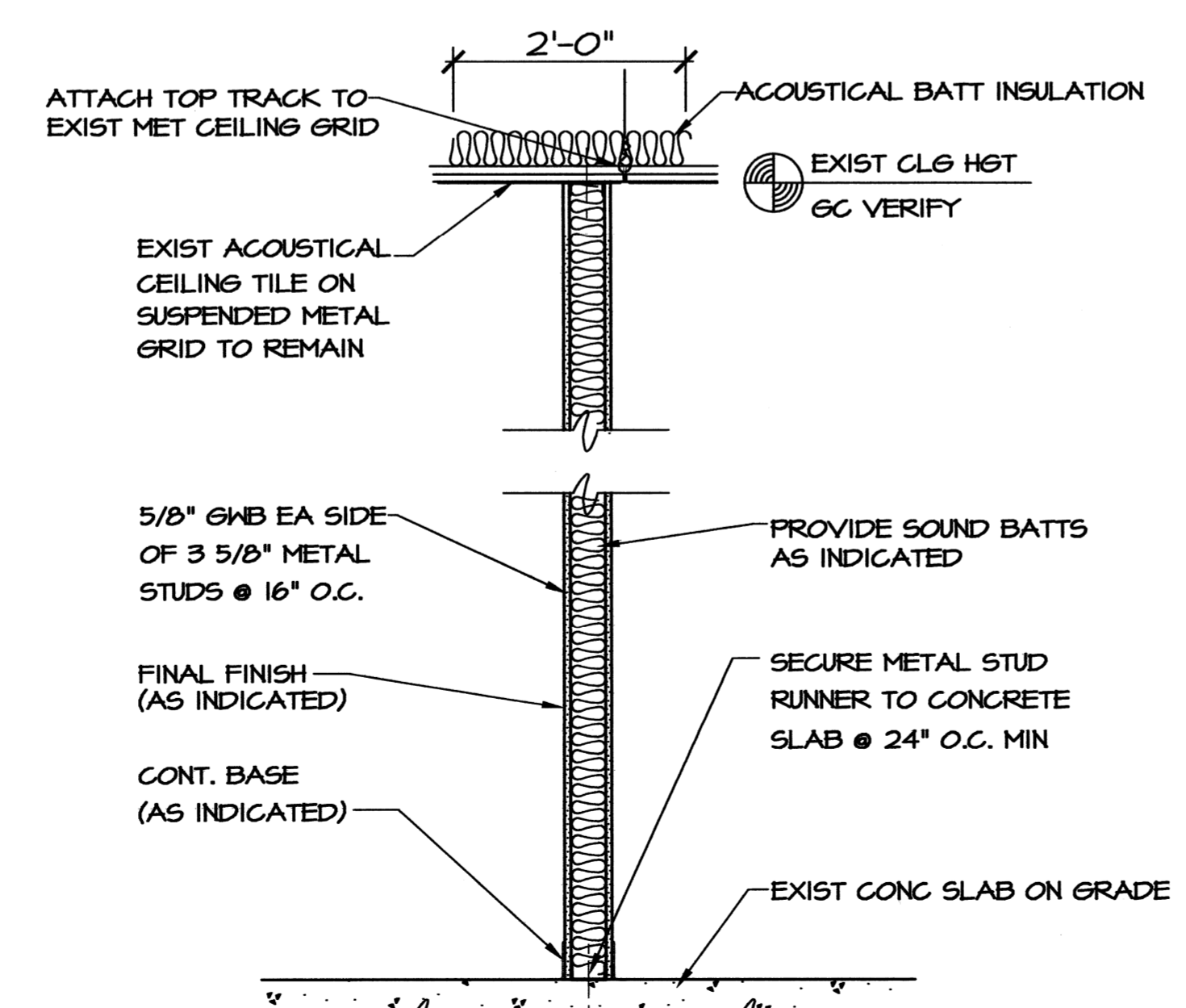
LEGEND- LIMIT OF WORK:
 LIMIT OF WORK, SEE E6, E4, D3/A1

LEGEND- EGRESS:
 EXIT
 AREA OF IMPACT
 TRAVEL PATH
 EXIT SIGN
 FIRE EXTINGUISHER CABINET

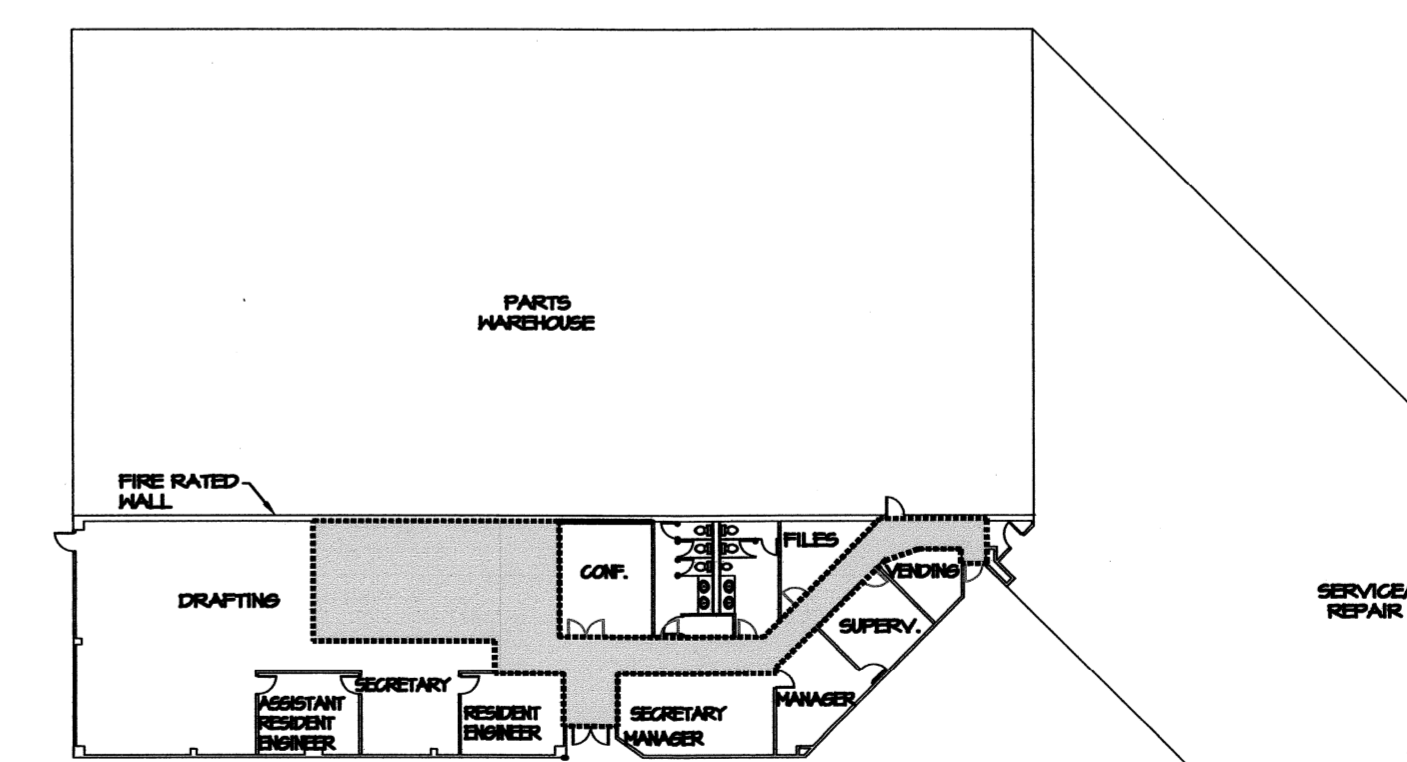
LEGEND- EXIT
 EXIST. DOOR WIDTH / EGRESS CAPACITY / ACTUAL OCCUPANT LOAD
 SHOW DIRECTION OF EXIT
 EXIT DISCHARGE

B6 A1 LIFE SAFETY PLAN
 SCALE: 1/8" = 1'-0"

- GENERAL NOTES:**
- CONTRACTOR MUST FIELD VERIFY DIMENSIONS AND OTHER CONDITIONS
 - EXISTING DOOR TO BE REMOVED. FRAME TO REMAIN
 - REMOVE EXISTING PARTITION TRACK.
 - REMOVE EXISTING CEILING TILES NEXT TO THE TRACK.
 - ADD PROPER FITTING CEILING TILES ACCORDING TO REMAINING SPACE. SUSPENDED CEILING TO MATCH NCDOT BLDG. COMPLEX STANDARD OFF-WHITE COLOR.
 - SEAL EXISTING DOOR FRAMES W/ 5/8" DRYWALL SECURED & FLUSH W/ DOOR FRAMES. FINISH NEW SURFACE TO MATCH EXISTING.
 - ADD NEW WALL (3-1/2 METAL STUDS W/ 5/8" DRYWALL PANELS PROVIDE SOUND INSULATION). FOR WALL SECTION, SEE A4/A1
 - ADD NEW DOOR / FRAME. DOOR SCHEDULE: NEW 3'-0" X 7'-0" X 1-3/4" SOLID CORE BIRCH DOOR W/OFFICE TYPE LOCKSET, LEVER HARDWARE TO COMPLY W/ ADA, NO CLOSER. MATCH EXISTING DOOR LOCKSET (BEST)- HOLLOW METAL FRAME, 1-1/2" PAIR HINGES/DOOR. MATCH EXISTING DOOR-FLOOR STOPS.
 - COLOR SCHEME IS THE SAME FOR ALL NEW OFFICES. PAINT NEW AND EXISTING WALLS & DOOR FRAMES. MATCH EXISTING. SEE FINISH SCHEDULE ON SHEET A2.
 - INSTALL NEW CUBICLE WORKSTATIONS SUPPLIED BY OWNER.
 - GENERAL CONTRACTOR TO DEMOLISH EXISTING EXHAUST GRILLE AND DUCTWORK. PROVIDE METAL CLOSURE AT UNDERSIDE OF EXISTING ROOF CURB. SEE ELECTRICAL DEMOLITION KEY NOTE NO. 4/ E.O.I.

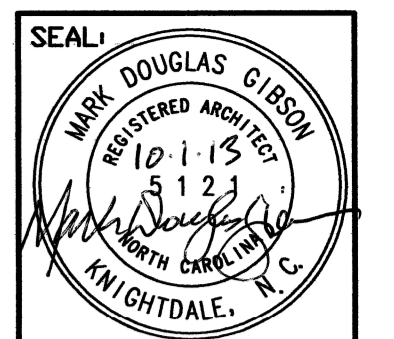


A4 A1 METAL STUD WALL SECTION
 SCALE: 1/2" = 1'-0"



KEY PLAN- CCB
 NOT TO SCALE

LEGEND- KEY PLAN:
 AREA OF WORK



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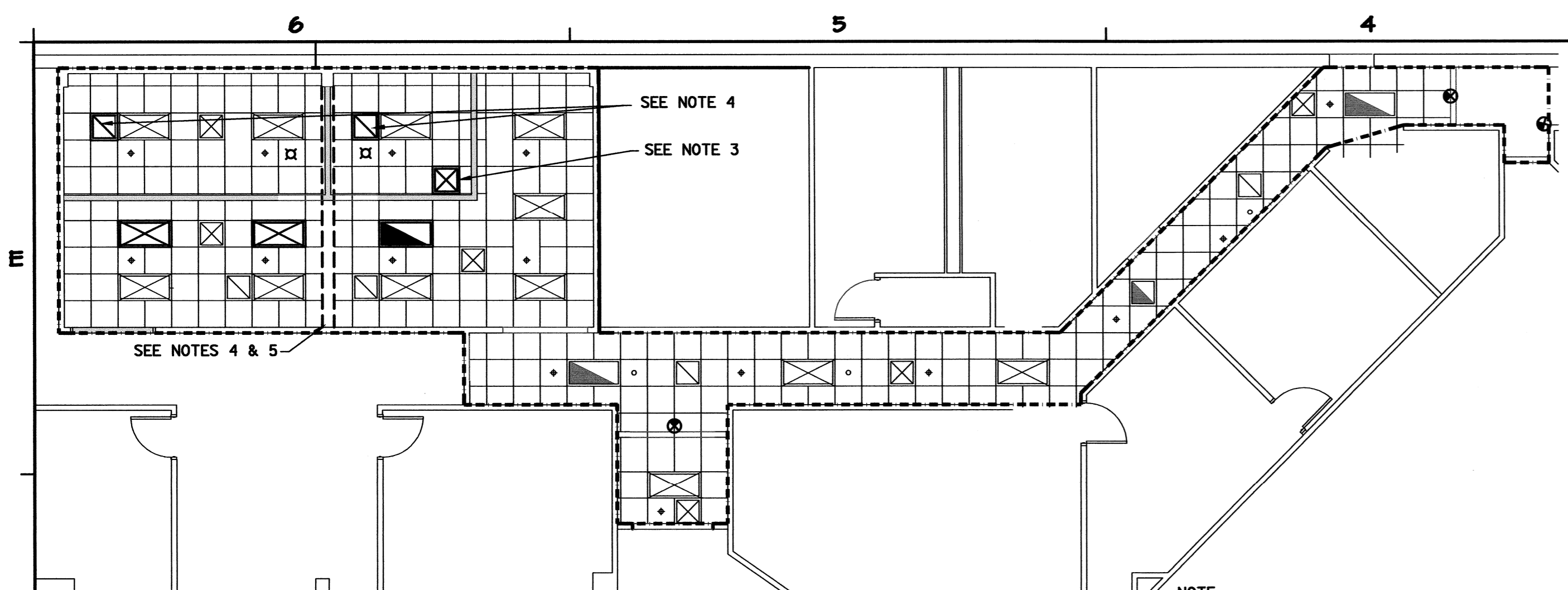
PROJECT:
 DIVISION 11 EQUIPMENT SHOP
 OFFICE UPFIT
 HIGHWAY DIVISION 11, NCDOT
 WILKES COUNTY, NORTH CAROLINA

STATE CONSTRUCTION ID.# 13-10023-01A
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 NO. DATE

DATE ISSUED: 08-02-13
 DRAWN BY: IS/ RA
 CHECKED BY: MG

SHEET CONTENTS:
 • PROPOSED DEMO, EGRESS PLAN
 • GENERAL NOTES, LEGEND
 • WALL SECTION
 SHEET NO.
A1
 1 OF 2



D6 REFLECTED CEILING PLAN
A2 SCALE: 1/8" = 1'-0"

NOTE:
 1. EXISTING CEILING IS CONTINUOUS OVER WALLS.
 2. WOMENS AND MENS CEILING IS GYPSUM WALL
 3. RELOCATED SUPPLY AIR GRILLE
 4. PROVIDE NEW 24"X 24" RETURN AIR GRILLE

- LEGEND- RCP (PLAN D6/A1):**
- 2X2 FLUORESCENT EMERGENCY LIGHT
 - 2X4 FLUORESCENT EMERGENCY LIGHT
 - 2X4 FLUORESCENT LIGHT
 - HVAC SUPPLY GRILLE
 - HVAC RETURN GRILLE
 - EXIT SIGN
 - HORN/ STROBE

NOTE: SEE SHEET E00 & E-01 FOR LIGHTS TO BE RELOCATED

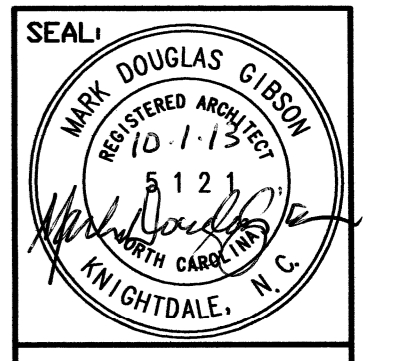
- LEGEND- EXISTING RCP :**
- 2X2 FLUORESCENT EMERGENCY LIGHT
 - 2X4 FLUORESCENT EMERGENCY LIGHT
 - 2X4 FLUORESCENT LIGHT
 - HVAC SUPPLY GRILLE
 - HVAC RETURN GRILLE

FINISH SCHEDULE

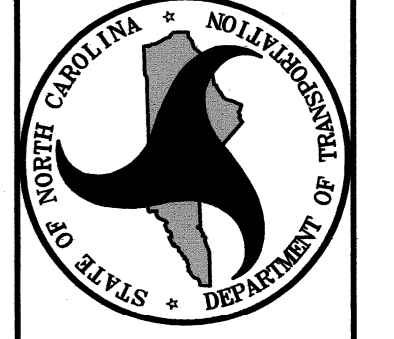
RM. NO.	ROOM NAME	FLOOR (CONC. SLAB) MATERIAL	BASE MATERIAL	NORTH WALL MATERIAL	EAST WALL MATERIAL	SOUTH WALL MATERIAL	WEST WALL MATERIAL	CEILING (SMS) MATERIAL	HEIGHT
101	DISTRICT ENGINEER	C	R	GYP	GYP	GYP	GYP	ACT	10'-0"
102	ASSISTANT ENGINEER	C	R	GYP	GYP	GYP	GYP	ACT	10'-0"
103	OPEN OFFICE	C	R	GYP	GYP	GYP	GYP	ACT	

ABBREVIATIONS:

- GYP GYPSUM
- R RUBBER BASE
- C CARPET
- CONC. CONCRETE
- SMS SUSPENDED METAL GRID
- ACT ACOUSTIC CEILING TILE



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STATE CONSTRUCTION ID.# 13-10023-01A

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 97 - 03 - 41

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SHEET CONTENTS:
 REFLECTED CEILING PLAN/ LEGEND.
 FINISH SCHEDULE

SHEET NO.
A2
 2 OF 2

ELECTRICAL SYMBOLS

(ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT)

Table of electrical symbols including linear floor light fixtures, wall mounted fixtures, emergency battery light, receptacles, switches, and various equipment symbols with their corresponding descriptions.

ABBREVIATIONS

Table of abbreviations for electrical symbols, including terms like PERCENT, PHASE, DEGREE, DIAMETER, and various electrical components.

GENERAL NOTES

- List of general notes regarding construction requirements, electrical code compliance, conduit and cable specifications, and equipment installation details.

WIRE AND CONDUIT SIZING SCHEDULE

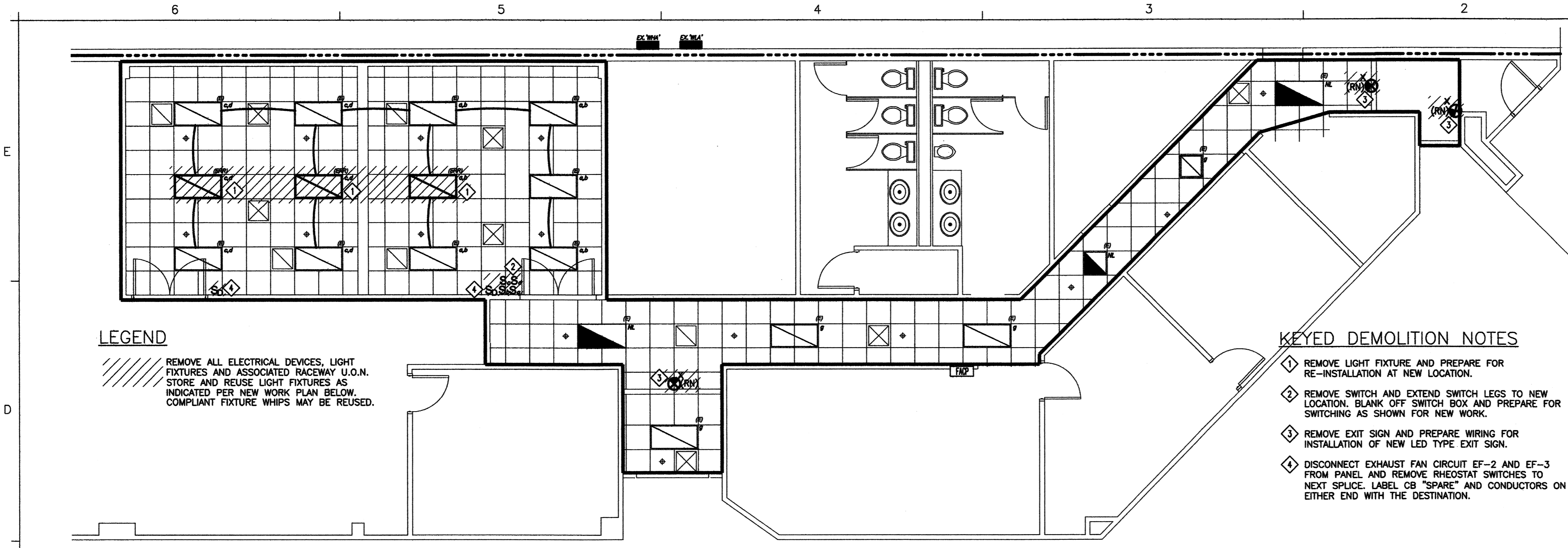
Table providing wire and conduit sizing schedules for different conductor counts and sizes, including columns for wire size (AWG/KCMIL) and conduit size in inches.

Table of standard mounting heights for various electrical equipment, such as telephones, receptacles, fire alarm devices, and panelboards.

2012 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS. Includes an electrical system and equipment summary table and lighting schedule details.

SUD ASSOCIATES, P.A. logo and contact information including address and phone number.

Professional seal and title block for N. WILKSBORO OFFICE UPFIT project, including state construction ID, revision table, date issued, and sheet number E-00.

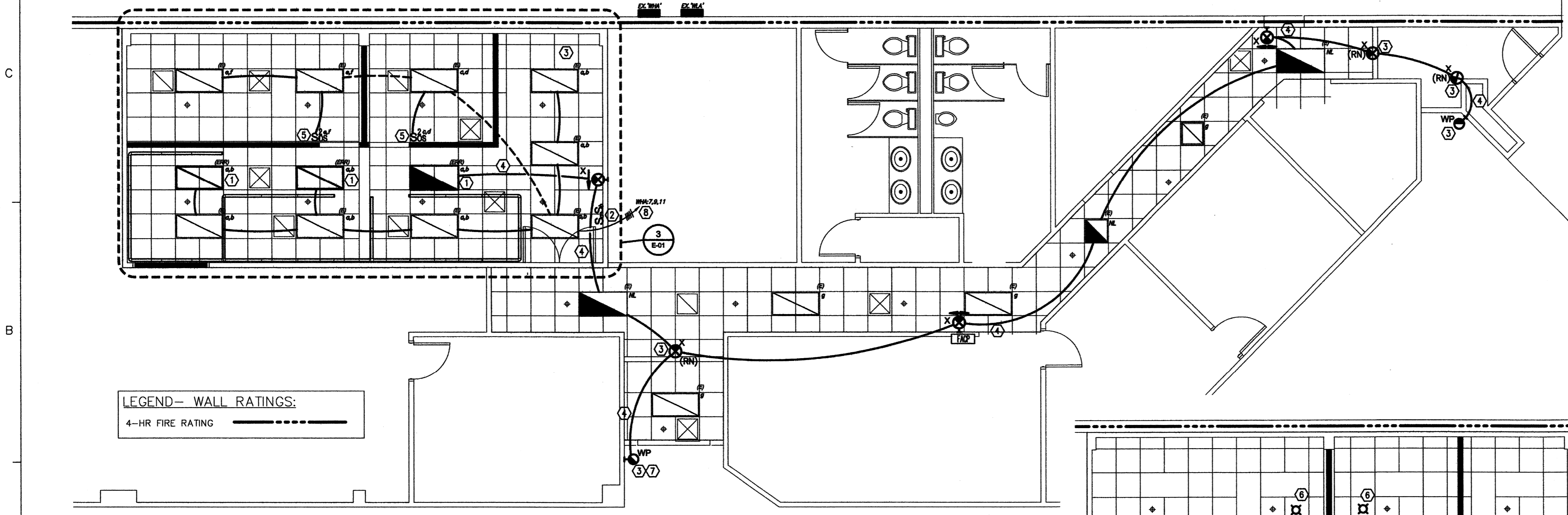


LEGEND
 REMOVE ALL ELECTRICAL DEVICES, LIGHT FIXTURES AND ASSOCIATED RACEWAY U.O.N. STORE AND REUSE LIGHT FIXTURES AS INDICATED PER NEW WORK PLAN BELOW. COMPLIANT FIXTURE WHIPS MAY BE REUSED.

KEYED DEMOLITION NOTES

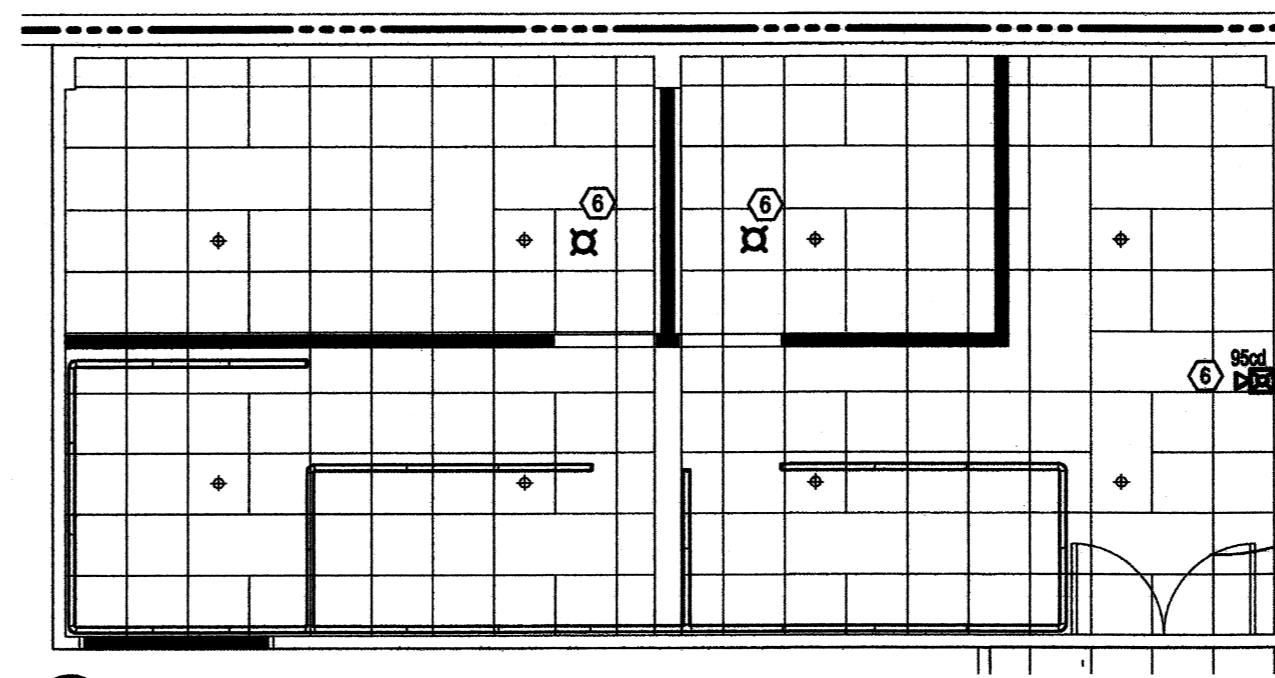
- REMOVE LIGHT FIXTURE AND PREPARE FOR RE-INSTALLATION AT NEW LOCATION.
- REMOVE SWITCH AND EXTEND SWITCH LEGS TO NEW LOCATION. BLANK OFF SWITCH BOX AND PREPARE FOR SWITCHING AS SHOWN FOR NEW WORK.
- REMOVE EXIT SIGN AND PREPARE WIRING FOR INSTALLATION OF NEW LED TYPE EXIT SIGN.
- DISCONNECT EXHAUST FAN CIRCUIT EF-2 AND EF-3 FROM PANEL AND REMOVE RHEOSTAT SWITCHES TO NEXT SPLICE. LABEL CB "SPARE" AND CONDUCTORS ON EITHER END WITH THE DESTINATION.

1 LIGHTING RCP - DEMOLITION
 E-01 3/16" = 1'-0"



LEGEND- WALL RATINGS:
 4-HR FIRE RATING

2 LIGHTING RCP - NEW WORK
 E-01 3/16" = 1'-0"



3 FIRE ALARM RCP - NEW WORK
 E-01 3/16" = 1'-0"

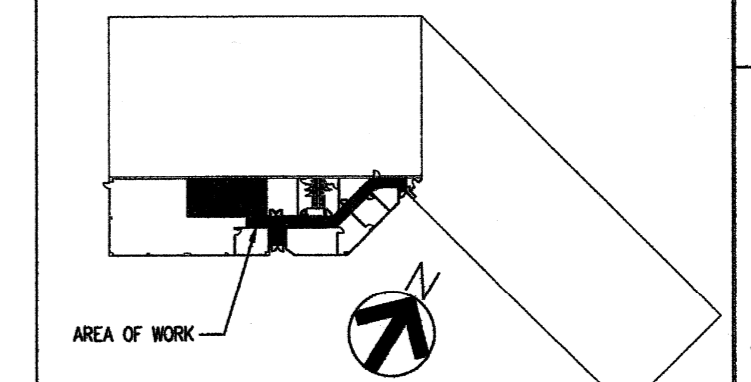
GENERAL NOTES

- TRACE AND RECORD EXISTING AND NEW BRANCH CIRCUITS CONNECTED TO THE PANELS SHOWN ON PLAN AND PROVIDE CORRECTED PANEL DIRECTORIES. MARK UNUSED CIRCUIT BREAKERS "SPARE". COORDINATE WITH OWNER AND RECORD MAXIMUM BRANCH CIRCUIT AMPACITIES. COORDINATE PHASING AND TERMINATIONS WITH ENGINEER. PANEL BALANCING IS INCLUDED.
- ALL LINE AND LOW VOLTAGE WIRING SHALL BE IN CONDUIT.
- PROVIDE COMPRESSION FITTINGS FOR CONDUITS THROUGHOUT.
- LIMIT FMC AND LFM TO 6'-0" IN UTILITY SPACES.
- PROVIDE DOUBLE-FLANGE STRAPS FOR EXPOSED CONDUITS. COORDINATE PAINTING OF EXPOSED RACEWAYS WITH G.C.
- JUNCTION BOXES SHOWN ARE DIAGRAMMATIC ONLY. ADD J-BOXES AS REQUIRED TO LIMIT TO FOUR CONDUIT TERMINATIONS PER BOX. ADD JUNCTION BOXES AS REQUIRED TO LIMIT FIXTURE WHIPS TO LIMIT FMC TO 6'-0" LENGTH.
- WHERE BOXES CANNOT BE LOCATED IN CONCEALED OR UTILITY SPACES PROVIDE SHALLOW CAST ALUMINUM BOXES ABOVE 8'-0" AFF.
- EMERGENCY LIGHTING SHALL BE MINIMUM 1200 LUMENS AND UL LISTED.
- ALL ACTIVE FIRE ALARM WORK SHALL USE COMPONENTS LISTED FOR USE WITH THE EXISTING FIRE ALARM CONTROL PANEL AND BE PERFORMED BY A FACTORY CERTIFIED PROGRAMMER AND INSTALLER TO THE SATISFACTION OF THE ENGINEER AND A.H.J. MAINTAIN AND EXPAND EXISTING FACP TO ACCOMMODATE RELOCATED AND NEW INITIATION, NOTIFICATION, INPUT/OUTPUT DEVICES SHOWN.
- EXPAND AND PROVIDE NEW SLC AND NAC LOOPS AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM TO THE SATISFACTION OF THE A.H.J. NAC POWER EXTENDERS SHALL BE SUPERVISED BATTERY UNITS.
- EXISTING RACEWAY MAY BE REUSED WHERE FEASIBLE AND IN COMPLIANCE WITH THE CODE. REMOVE ABANDONED CONDUITS.
- REPLACE DEFECTIVE EXISTING DEVICES IN KIND.
- THE FIRE ALARM SUBMITTALS INCLUDE AN ABBREVIATED DESCRIPTION OF THE COMPLETE SYSTEM AND A FULL DESCRIPTION OF THE AFFECTED LOOPS INCLUDING EXISTING AND NEW DEVICES ON RISER DIAGRAMS AND FLOOR PLANS, WITH WIRE LEGENDS, LOAD AND VOLTAGE DROP CALCULATIONS. REVIEW WILL BE BY THE ENGINEER, OWNER AND THE A.H.J. SEAL ALL NEW AND EXISTING PENETRATIONS AROUND RACEWAYS AND LOW-VOLTAGE PATHWAYS.
- NEW LIGHTING CIRCUITS ARE 20A/1P CB WITH 2#12G+1#12G IN 1/2" C.
- REPAIR ANY DAMAGES TO EXISTING BUILDING SYSTEMS RESULTING FROM THIS WORK AT NO ADDITIONAL EXPENSE TO THE OWNER.
- PROVIDE ALL J-BOXES OUTSIDE OF HARD CEILINGS.
- PROVIDE 2-LAMP BALLASTS WITH MASTER-SLAVE TANDEM WIRING FOR DOUBLE SWITCHED LIGHT FIXTURES. SINGLE LAMP BALLASTS ARE NOT ACCEPTABLE.
- COORDINATE EXACT LOCATION, CONFIGURATION AND QUANTITY OF EXIT SIGNS WITH ARCHITECT.

KEYED NOTES

- RE-INSTALL LIGHT FIXTURE IN NEW LOCATION AND EXTEND CIRCUIT.
- PROVIDE NEW SWITCHING. REVISE CIRCUITING AS REQUIRED FOR NEW ZONING.
- PROVIDE NEW LIGHT FIXTURE / ILLUMINATED SIGNAGE AND ASSOCIATED CIRCUITING. PHOTOCELL CONTROL FOR TYPE "WP".
- EXTEND EMERGENCY NIGHT LIGHT CIRCUIT. (TYP.) AS REQUIRED.
- PROVIDE LINE VOLTAGE DUAL CIRCUIT OCCUPANCY SENSOR SWITCH SET TO VACANCY MODE (MANUAL ON, AUTO OFF). USE DUAL PASSIVE (IR & MICROPHONIC) SENSOR TECHNOLOGY. (TYP.)
- PROVIDE NEW HORN/STROBE AND TIE INTO EXISTING UNIMODE MODEL 10UD FIRE ALARM SYSTEM. REFER TO PLAN 2/E-01 FOR LOCATION OF FACP. ALL FIRE ALARM WORK PERFORMED SHALL BE BY A CERTIFIED INSTALLER LOCATED WITHIN 100 MILES FROM THE SITE.
- COORDINATE EXACT LOCATION W/ OWNER. CENTER ABOVE DEDICATION PLAQUE. PROVIDE PHOTOCELL CONTROL.
- MAINTAIN EXISTING HOME RUN TO REMAIN. FIELD-VERIFY EXACT LOCATION. (TYP.)

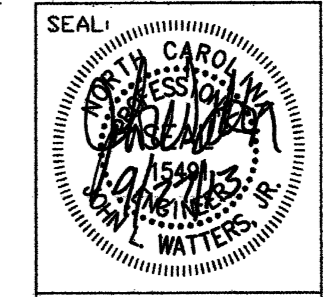
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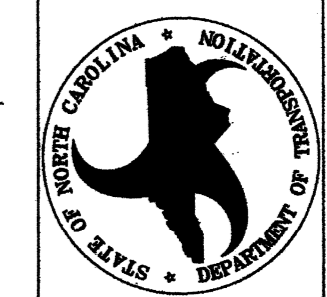
GROUND FLOOR LEVEL

SUD ASSOCIATES, P.A.

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PROJECT: N. WILKSBORO OFFICE UPFIT
 HIGHWAY DIVISION 11, NCDOT
 WILKES COUNTY, NORTH CAROLINA

STATE CONSTRUCTION ID.# 13-10023-01A

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COUNTY - SITE - BUILDING

REVISIONS NO. DATE

DATE ISSUED: 8-2-2013

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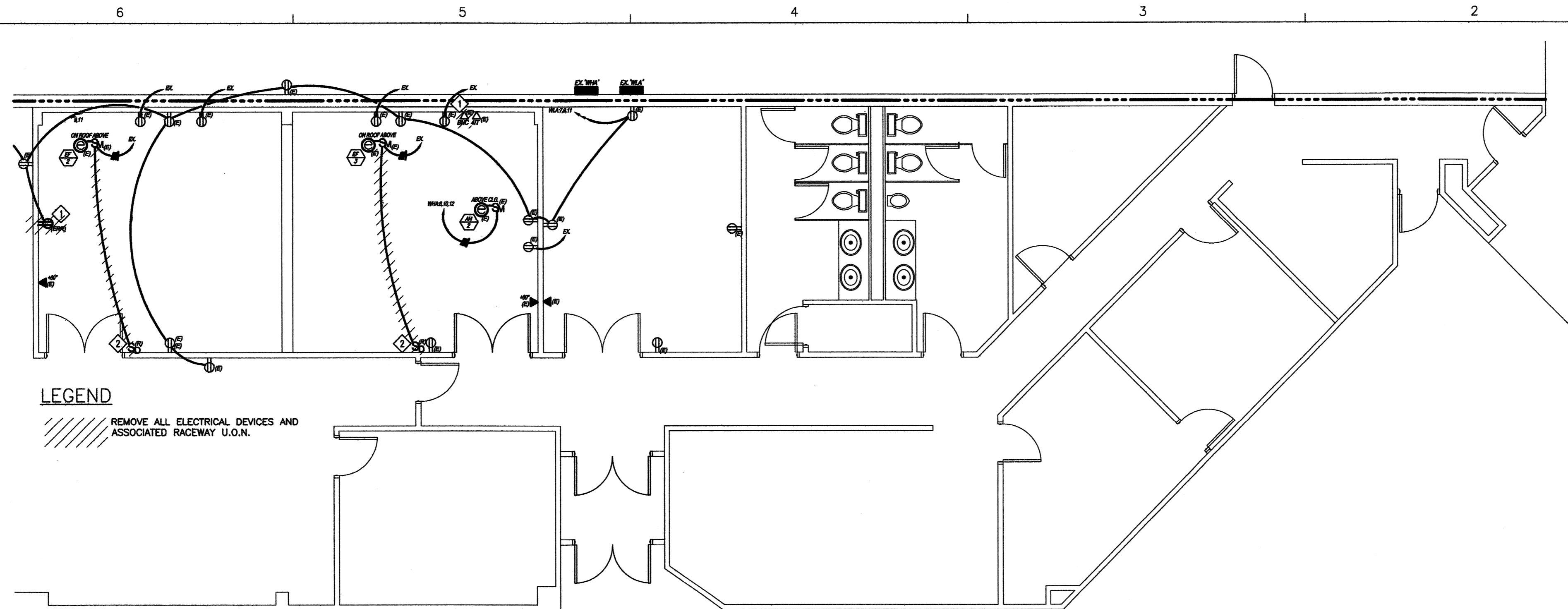
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LIGHTING AND FIRE ALARM REFLECTED CEILING PLANS

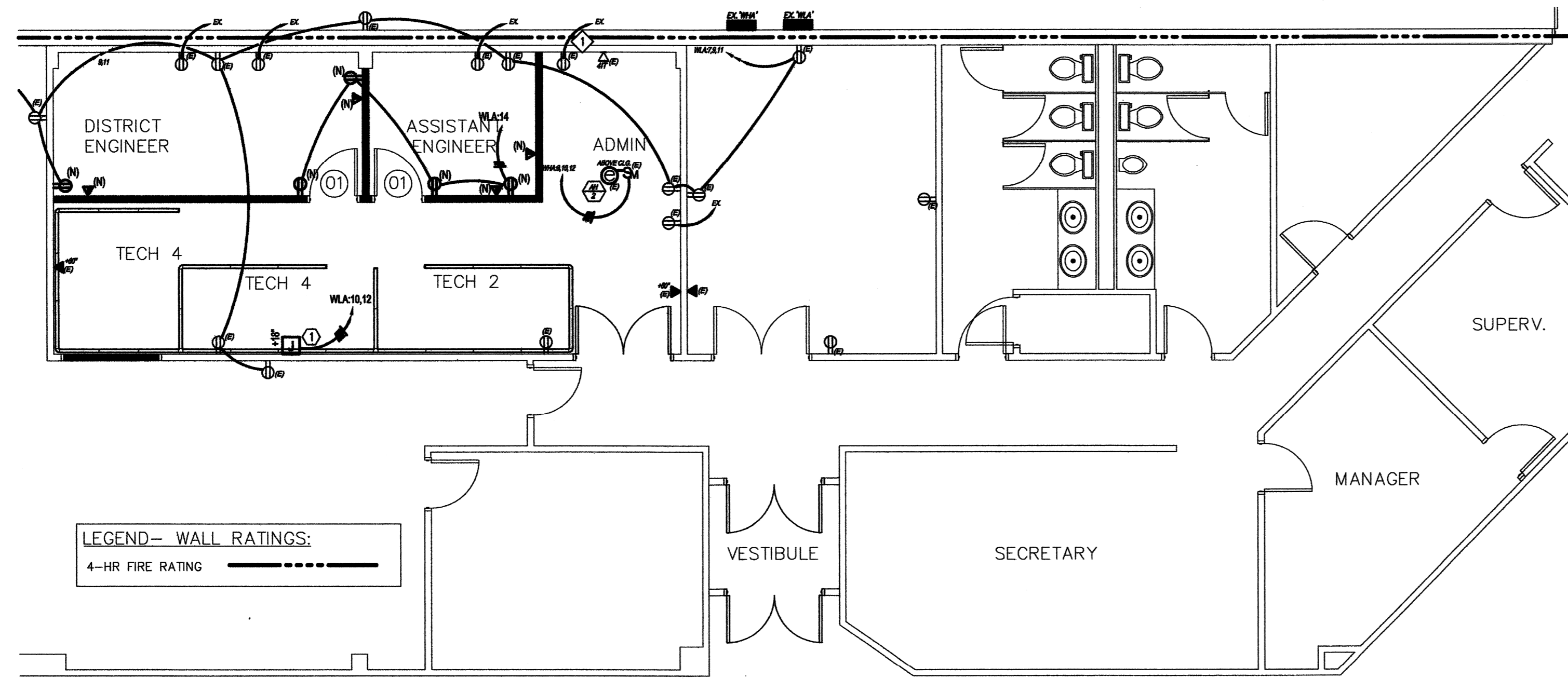
SHEET NO.

E-01

OF --



1 POWER AND SYSTEMS FLOOR PLAN - DEMOLITION
E-02 3/16" = 1'-0"



2 POWER AND SYSTEMS FLOOR PLAN - NEW WORK
E-02 3/16" = 1'-0"

GENERAL NOTES

- TRACE AND RECORD EXISTING AND NEW BRANCH CIRCUITS CONNECTED TO THE PANELS SHOWN ON PLAN AND PROVIDE CORRECTED PANEL DIRECTORIES. MARK UNUSED CIRCUIT BREAKERS "SPARE". COORDINATE WITH OWNER AND RECORD MAXIMUM BRANCH CIRCUIT AMPACITIES. COORDINATE PHASING AND TERMINATIONS WITH ENGINEER. PANEL BALANCING IS INCLUDED.
- ALL LINE AND LOW VOLTAGE WIRING SHALL BE IN CONDUIT. TELECOMMUNICATIONS WIRING MAY BE IN J-HOOKS ABOVE CEILING. PROVIDE PLASTIC BUSHINGS AT CONDUIT STEPS.
- PROVIDE COMPRESSION FITTINGS FOR CONDUITS THROUGHOUT.
- LIMIT FMC AND LFMC TO 6'-0".
- PROVIDE DOUBLE-FLANGE STRAPS FOR SURFACE METAL RACEWAY WHERE CONDUITS CANNOT BE CONCEALED WHERE SO DEEMED BY OWNER. COORDINATE EXACT ROUTING OF SURFACE RACEWAY W/ OWNER PRIOR TO INSTALLATION. USE OF CHALK LINE IS INCLUDED.
- JUNCTION BOXES SHOWN ARE DIAGRAMMATIC ONLY. ADD J-BOXES AS REQUIRED TO LIMIT TO FOUR CONDUIT TERMINATIONS PER BOX.
- ADD JUNCTION BOXES AS REQUIRED TO LIMIT FIXTURE WHIPS TO LIMIT FMC TO 6'-0" LENGTH.
- WHERE BOXES CANNOT BE LOCATED IN CONCEALED OR UTILITY SPACES PROVIDE SHALLOW CAST ALUMINUM BOXES ABOVE 8'-0" AFF.
- EXISTING RACEWAY MAY BE REUSED WHERE FEASIBLE AND IN COMPLIANCE WITH THE CODE. REMOVE ABANDONED CONDUITS.
- REPLACE DEFECTIVE EXISTING DEVICES IN KIND.
- SEAL ALL NEW AND EXISTING PENETRATIONS AROUND RACEWAYS AND LOW-VOLTAGE PATHWAYS.
- NEW RECEPTACLE CIRCUITS ARE 20A/1P CB WITH #12G CURRENT CARRYING +1#12G IN MIN. 3/4" C. U.O.N.
- REPAIR ANY DAMAGES TO EXISTING BUILDING SYSTEMS RESULTING FROM THIS WORK AT NO ADDITIONAL EXPENSE TO THE OWNER.
- PROVIDE ALL J-BOXES OUTSIDE OF HARD CEILING.

KEYED DEMOLITION NOTES

- ◇ REMOVE RECEPTACLE WHERE IT INTERFERES WITH NEW WALL. RE-ROUTE CIRCUIT AS REQUIRED.
- ◇ DISCONNECT EXHAUST FAN CIRCUIT EF-2 AND EF-3 FROM PANEL AND REMOVE RHEOSTAT SWITCHES TO NEXT SPLICE. LABEL CONDUCTORS ON EITHER END.

KEYED NOTES

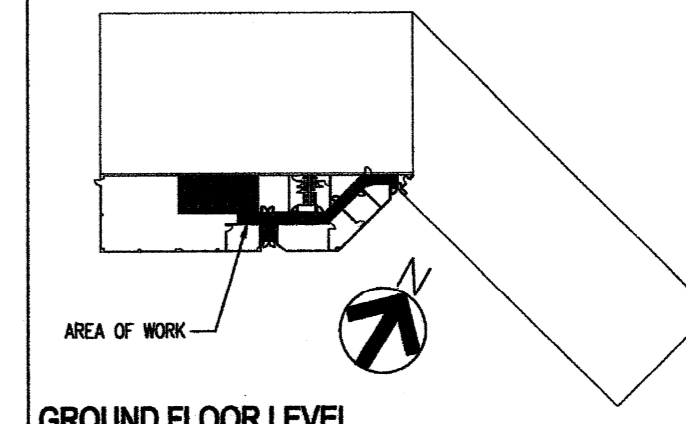
- ① PROVIDE NEW CIRCUITS TO NEW RECESSED 2-GANG J-BOX AND LFMC WHIP TO PARTITION. PROVIDE CONNECTION TO BUILD-IN RECEPTABLES. COORDINATE CONNECTIVITY DETAILS W/ OWNER. DO NOT EXCEED (6) DUPLEX RECEPTABLES FOR CIRCUITS 10 AND 12 EA. (TYP.)

KVA LOAD	DESIGNATION TYPED ON DIRECTORY			COND [S]	WIRE SIZE	BRKR RATIO	BRKR NO.	BRKR RATIO	WIRE SIZE	COND [S]	DESIGNATION TYPED ON DIRECTORY			KVA LOAD	
	A	B	C								A	B	C		
0.90			EX RECEPTABLES	EX TO REMAIN	20	1	1				EX WATER HEATER		2.50		
			EX RECEPTABLES	EX TO REMAIN	20	1	3				EX HLT			1.18	
			EX RECEPTABLES	EX TO REMAIN	20	1	5				EX EF-1		0.70		
1.08			EX RECEPTABLES	EX TO REMAIN	20	1	7				NEW RECPY		1.48	1.58	
			EX RECEPTABLES	EX TO REMAIN	20	1	9				NEW RECPY		0.72		
0.90			EX RECEPTABLES	EX TO REMAIN	20	1	11				EX EF-2		0.83	0.70	
			EX EWC	EX TO REMAIN	20	1	13				EX EF-3		0.70	0.70	
0.90			EX RECPY COFFEE	EX TO REMAIN	20	1	15				EX EF-4		0.70	0.70	
			EX VENDING MACH	EX TO REMAIN	20	1	17				EX EF-5		0.70	0.70	
0.90			EX COPY RM RECPY	EX TO REMAIN	20	1	19				EX EF-6		0.70	0.70	
			EX VENDING MACH	EX TO REMAIN	20	1	21				EX EF-7		0.70	0.70	
0.90			EX RECEPTABLES	EX TO REMAIN	20	1	23				EX EF-8		0.70	0.70	
			EX RECEPTABLES	EX TO REMAIN	20	1	25				EX FLOOD LIGHT		0.80	0.20	
0.70			EX TABLE LIGHT W/BS	EX TO REMAIN	20	1	27				EX DOCK LIGHT		0.80	0.20	
			EX TABLE LIGHT W/BS	EX TO REMAIN	20	1	29				EX INV. CRT		0.80	0.20	
0.70			EX TABLE LIGHT W/BS	EX TO REMAIN	20	1	31				EX W/BS LIGHTS		0.80	0.72	
			EX TABLE LIGHT W/BS	EX TO REMAIN	20	1	33				EX W/BS LIGHTS		0.80	0.72	
0.70			EX TABLE LIGHT W/BS	EX TO REMAIN	20	1	35				EX COMP. RECPY		0.72	0.72	
			EX COMPUTER RECPY	EX TO REMAIN	20	1	37				EX COMP. RECPY		0.72	0.72	
0.64			EX RECPY CUBICLE	EX TO REMAIN	20	1	39				EX RECPY CUBICLE		0.72	0.72	
			EX RANGE	EX TO REMAIN	50	2	41				EX RECPY CUBICLE		0.72	0.72	
5.92	8.30	9.40	N/A								CONNECTED N/A	6.61	8.83	5.30	
												TOTAL CONNECTED N/A	12.88	15.15	14.70
												TOTAL DEMAND	42.39		

ENCLOSURE: NEMA 1 SURFACE MOUNT
VOLTAGE: 208Y/120V, 3Ø, 4W+G
BUSSES: COPPER
WIRING: 250 AMP MAIN LUGS ONLY
FEEDER: 4Ø+NG IN 1-1/2" C.
INTERRUPTING RATING: 10 KVA FULLY RATED
SERVICE ENTRY RATED: NO
ISOLATED GROUND: NO
NOTES:
1) REFER TO WIRE AND CONDUIT SCHEDULE.
2) NEW PARTS OF CIRCUIT ARE SHOWN BOLD. EX. LOADS ARE ESTIM. ONLY.
3) GRAPHICAL REPRESENTATION OF CB IS SCHEMATIC ONLY. PROVIDE NUMBER OF POLES AS SHOWN IN COLUMN.
4) 1Y INDICATES HACR CB TO BE VERIFIED WITH M.C. L - LOCKABLE, S - SHUNT TRIP, G - GFCI CB, T - TIMER CIRCUIT, C - CONTROLLED BY OTHER MEANS.
EXISTING PANEL WLA (NEW CONSTRUCTION)

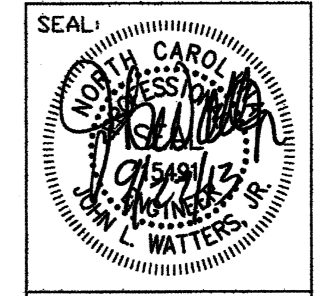
LOAD TYPE	CONNECTED LOAD (KVA)		DEMAND FACTOR	DEMAND LOAD (KVA)	
	EX.	NEW		SUMMER	WINTER
LIGHTING	6.60	6.60	125%	7.00	7.00
GENERAL USE (S. U.S.A.)	14.94	2.88	75%	3.91	3.91
RECEPTABLES (S. U.S.A.)			125%		
MOTORS & EQUIPMENT			100%		
VENTILATION & HEAT PUMP	5.21	5.21	125%	6.51	6.51
HVAC			125%		
COOLING (LARGEST)			100%		
HEATING			100%		
KITCHEN EQUIPMENT	6.76	6.76	100%	6.76	6.76
MISCELLANEOUS	5.00	5.00	100%	5.00	5.00
FUTURE ALLOWANCE			100%		
TOTALS	38.51	2.88	42.39	41.18	41.18
				MAX. DEMAND:	114.3 Amp

Key Plan: SCALE: 1:500



SUD ASSOCIATES, P.A.

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PROJECT: **N. WILKSBORO OFFICE UPFIT**
HIGHWAY DIVISION 11, NCDOT
WILKES COUNTY, NORTH CAROLINA

STATE CONSTRUCTION ID.# 13-10023-01A
ASSET NUMBER 97-03-41

REVISIONS

NO.	DATE

DATE ISSUED: 6-2-2013
DRAWN BY: MM
CHECKED BY: JLV

POWER AND SYSTEMS FLOOR PLAN
SHEET NO. **E-02**
OF --

