

ROOFTOP AIR CONDITIONING UNIT SCHEDULE

MARK	AREA SERVED	TOTAL SUPPLY AIR	ESP IN WGT	SUPPLY FAN MOTOR QTY	FAN HP	FILTERS	COOLING DATA			COND. DATA			HEATING DATA			UNIT ELECTRICAL DATA	BASIS OF DESIGN	EQUIPMENT HEIGHT WITH CURB											
							TON	SHR	EDB	EMG	EER	QTY' (each)	FAN DATA (each)	FUEL	EFF %				STAGES	V/0/HZ	MCA	MPS							
RTU-1	KITCHEN	4000	0.8	1	3	2" TWAY	117.4	.94	85	67	10.2	2	5.1/3.9/18.6/14.7	1	.75	4.0	NAT GAS	150	81	2	208/3/60	52.6	60	TRAPE VSC120	987 lbs	53"	CARRIER 48T1012	LENNOX LCC120S	
RTU-2	DINING	2200	0.6	1	1	2" TWAY	72.7	.89	85	67	10.2	1	6.0	19.0	1	.70	3.85	NAT GAS	120	81	1	208/3/60	32.7	50	TRAPE VSC072	735 lbs	53"	CARRIER 48T007	LENNOX LCC072S
RTU-3	DINING	3100	0.8	1	2	2" TWAY	104.2	.89	85	67	10.1	2	5.1/2.8/18.1/10.3	1	.75	4.0	NAT GAS	120	81	1	208/3/60	45.1	60	TRAPE VSC102	899 lbs	53"	CARRIER 48T009	LENNOX LCC102S	
RTU-4	DINING	4500	0.8	1	3	2" TWAY	147.0	.81	85	67	9.6	2	6.25	21.3	2	.5	3.2	NAT GAS	150	81	2	208/3/60	66	80	TRAPE VCD150	1458 lbs	62"	CARRIER 48T1014	LENNOX LCC150S

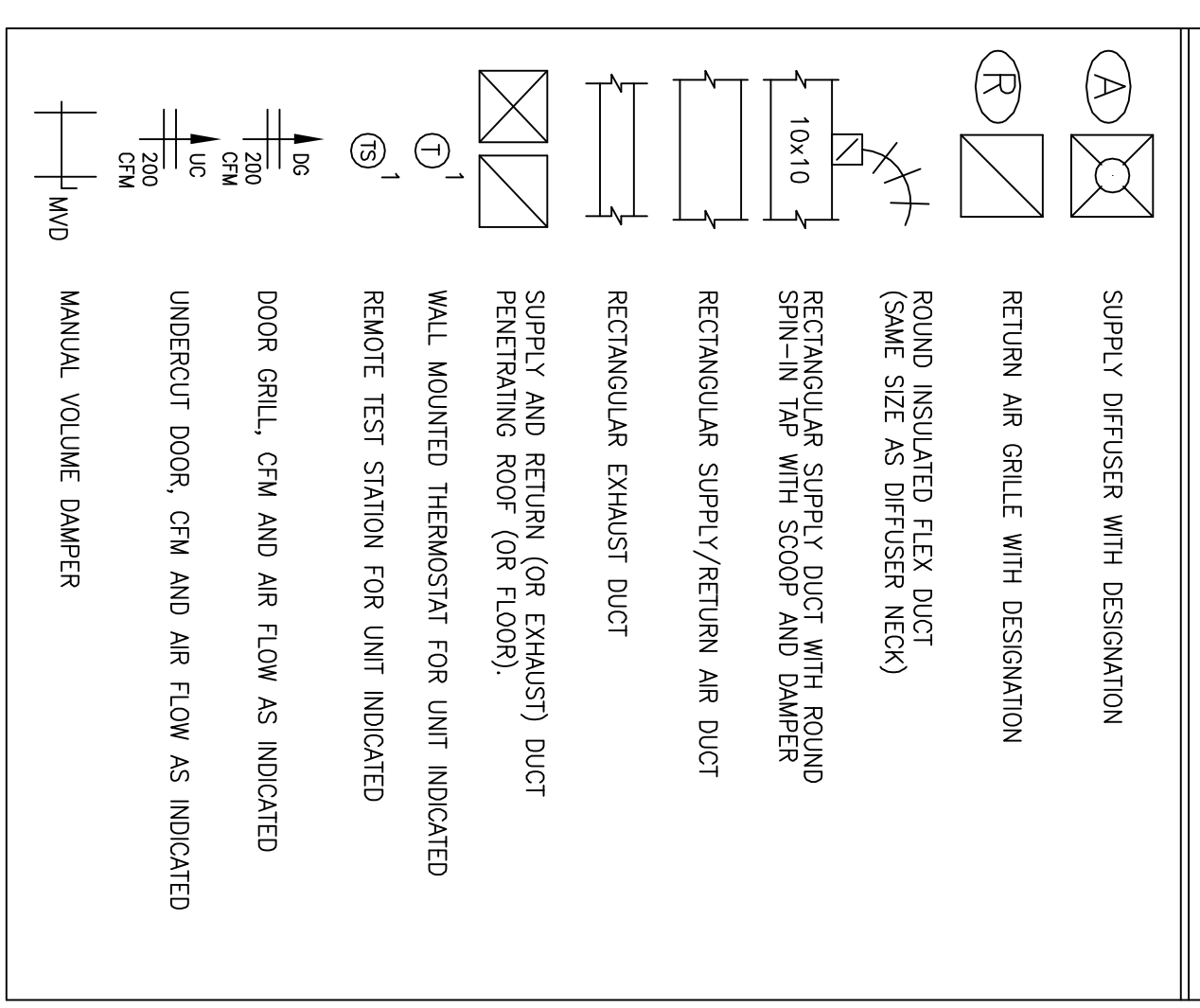
- ALL COOLING CAPACITIES SHOWN ARE BASED ON AN AMBIENT OUTDOOR TEMPERATURE OF 95° F.
- CONTRACTOR SHALL INSTALL ALL NEW FILTERS PRIOR TO TEST AND BALANCE WORK.
- PROVIDE LOW AMBIENT COOLING CAPABILITY DOWN TO 0°F.
- PROVIDE ALL COMPRESSORS WITH 5 YEAR WARRANTIES.
- ALL CAPACITIES LISTED ARE MINIMUM REQUIRED QUANTITIES.
- PROVIDE UNIT WITH PROVISIONS FOR THROUGH THE BASE ELECTRICAL CONNECTION AND FACTORY MOUNTED FUSED DISCONNECT.
- PROVIDE UNIT WITH UNWEIGHTED GFCI CONVENIENCE OUTLET.
- PROVIDE OUTSIDE AIR DUCTS AND DAMPERS TO BE INSTALLED BY MECHANICAL CONTRACTOR.
- PROVIDE UNIT WITH STANDARD KNOCK DOWN TYPE ROOF CURB.
- PROVIDE UNIT WITH FACTORY INSTALLED HINGED ACCESS PANELS.
- PROVIDE UNIT WITH ECONOMIZER, DIFFERENTIAL ENTHALPY CONTROL & BAROMETRIC RELIEF DAMPER.

FAN SCHEDULE

MARK	AREA SERVED	CFM	T.S.P. IN WG	MOTOR DATA HP RPM V/0/HZ	CONTROLLED BY	BASIS OF DESIGN	REMARKS	EQUIPMENT HEIGHT WITH CURB
EF-1	MAIN COOKLINE	2460	1.5	1.0 1307 208/3/60	SWITCH AT HOOD	GREENHECK CUBE-180HP	-	48"
EF-2	MAIN COOKLINE	2460	1.5	1.0 1307 208/3/60	SWITCH AT HOOD	GREENHECK CUBE-180HP	-	48"
EF-3	MAIN COOKLINE	2460	1.5	1.0 1307 208/3/60	SWITCH AT HOOD	GREENHECK CUBE-180HP	-	48"
EF-4	DISHWASHER	1050	0.5	0.25 1535 120/1/60	SWITCH	GREENHECK GB-101	-	34"
EF-5	CUSTOMER TOILETS	230	0.25	1050 120/1/60	LIGHT SWITCH SP-226	GREENHECK	-	N/A
EF-6	CUSTOMER TOILETS	270	0.25	1050 120/1/60	LIGHT SWITCH SP-226	GREENHECK	-	N/A
SF-1	HOOD MAKE-UP AIR	5780	0.75	5.0 784 208/3/60	SWITCH AT HOOD KSF-113	GREENHECK	-	51"
FF-1	SERVICE DOOR	2550	-	0.5 1750 120/1/60	MICRO-SWITCH IN DOOR	MARS 42 CH	SWITCH PROVIDED BY ELEC. CONT.	N/A
BF-1,2	SALAD BAR	300	0.10	81 -	LOCAL SWITCH	GREENHECK CSF-228	-	N/A

- PROVIDE BACKDRAFT DAMPER AND BRID SCREEN ON EF-4.
- PROVIDE EF- 5 & 6 WITH SOLID STATE SPEED CONTROLLER, BACKDRAFT DAMPER AND BROSGREEN.
- PROVIDE EF-1, 2 & 3 WITH THE FOLLOWING GREASE CONTROL OPTIONS:
 - NON STICK WHEEL
 - CLEAN OUT PORT
 - HINGE KIT
 - FACTORY MOUNTED DISCONNECT SWITCH
 - FACTORY MOUNTED DISCONNECT SWITCH
 - FACTORY MOUNTED HASP LATCHES (FILTER CHANGE)
- EXTENDED WEATHERHOOD AND ALUMINUM 1" MESH FILTER.
- PROVIDE SF-1 WITH THE FOLLOWING OPTIONS:
 - EXTENDED WEATHERHOOD AND ALUMINUM 1" MESH FILTER.
 - FACTORY MOUNTED DISCONNECT SWITCH
 - FACTORY MOUNTED HASP LATCHES (FILTER CHANGE)
- PROVIDE BF-1 & BF-2 WITH SOLID STATE SPEED CONTROLLERS.
- APPROVED EQUALS: COOK, FENN & CARTEFAIRE

MECHANICAL LEGEND



AIR BALANCE SCHEDULE

MARK	KITCHEN	DINING	TOTAL SPACE
RTU-1	+ 900 CFM	-	
RTU-2	-	+ 550 CFM	
RTU-3	-	+ 800 CFM	
RTU-4	-	+ 1150 CFM	
EF-1	-	-	
EF-2	-	-	
EF-3	-	-	
EF-4	-	-	
EF-5	-	-	
EF-6	-	-	
HOOD #1	+ 1230 CFM	-	
HOOD #2	+ 1230 CFM	-	
HOOD #3	+ 1230 CFM	-	
OUTSIDE HOOD	+ 2090 CFM	-	
TOTALS	- 1750 CFM	+ 2000 CFM	
TOTAL SPACE	+ 250 CFM		

CONTROL NOTES

- THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING DIAGRAMS FOR THE HVAC EQUIPMENT. 24 VOLT WIRING SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR. PROVIDE ADDITIONAL 24 VOLT TRANSFORMERS AS REQUIRED.
- ROOFTOP AIR CONDITIONING UNITS**
- THE AIR CONDITIONING UNIT FANS, HEATING AND COOLING SHALL BE CONTROLLED FROM ROOM THERMOSTAT SENSORS LOCATED APPROXIMATELY AS SHOWN ON THE PLANS. THERMOSTATS SHALL BE MOUNTED ON SINGLE GANG JUNCTION BOX BY THIS CONTRACTOR AT LOCATIONS AND HEIGHTS INDICATED ON SHEET KS. ALL CONDUIT AND JUNCTION BOXES SHALL BE BY ELECTRICAL CONTRACTOR. CONTRACTOR SHALL ALSO VERIFY CLEARSPACE REQUIREMENTS FOR COMPLIANCE WITH ADAAG 4.2.6.
- FANS**
- EF-1 EF-2 EF-3 & SF-1 SHALL BE CONTROLLED BY A SWITCH ON THE FACE OF THE MAIN COOKLINE HOOD.
- EF-4 SHALL BE CONTROLLED BY THE DISHWASHER SWITCH.
- EF-5 & 6 SHALL BE CONTROLLED BY A SWITCH LOCATED AT THE REAR DOOR. SEE ELECTRICAL DRAWINGS.
- FF-1 SHALL BE CONTROLLED BY A MICRO-SWITCH LOCATED ON THE REAR DOOR.
- SMOKE DETECTORS**
- PROVIDE EACH AIR CONDITIONING UNIT WITH A FACTORY MOUNTED SMOKE DETECTOR IN THE SUPPLY AND RETURN AIR SECTIONS OF EACH UNIT, CAPABLE OF SHUTTING DOWN THE AIR CONDITIONING UNIT UPON ACTUATION. REMOVE TEST STATION WILL BE PROVIDED FOR EACH RTU FOR INSTALLATION BY THE MECHANICAL CONTRACTOR AS SHOWN ON THE PLANS. TEST STATIONS SHALL BE MOUNTED ON DOUBLE GANG JUNCTION BOXES BY THIS CONTRACTOR AT LOCATIONS AND HEIGHTS INDICATED ON SHEET KS. ALL CONDUIT AND JUNCTION BOXES SHALL BE BY ELECTRICAL CONTRACTOR. CONTRACTOR SHALL ALSO VERIFY CLEARSPACE REQUIREMENTS FOR COMPLIANCE WITH ADAAG 4.2.6.

AIR DEVICE SCHEDULE

MARK	RECT NECK SIZE	ROUND NECK SIZE	CFM	THROW PATTERN	BASIS OF DESIGN	REMARKS
A	-	12"	600	4-WAY	METAL-WARE 7500AL-6	T-BAR LAY IN
B	-	12"	500	4-WAY	METAL-WARE 7500AL-6	T-BAR LAY IN
C	-	10"	400	4-WAY	METAL-WARE 7500AL-6	T-BAR LAY IN
D	-	10"	300	4-WAY	METAL-WARE 7500AL-6	T-BAR LAY IN
E	-	10"	250	4-WAY	METAL-WARE 7500AL-6	T-BAR LAY IN
F	20"x18"	-	-	-	METAL-WARE 7500AL-6	SURFACE MOUNT
G	-	8"	200	4-WAY	METAL-WARE 7500AL-1	SURFACE MOUNT
H	-	8"	200	4-WAY	METAL-WARE 7500AL-1	SURFACE MOUNT
J	-	12"	800	2-WAY	METAL-WARE 7500AL-6	T-BAR LAY IN
K	12"x12"	6"	100	4-WAY	METAL-WARE 7500AL-6	SURFACE MOUNT
R	20" x 20"	-	-	-	METAL-WARE RHE	T-BAR LAY IN
R2	12" x 12"	-	-	-	METAL-WARE RHE	SURFACE MOUNT
T	12" x 12"	-	-	-	METAL-WARE RHE	T-BAR LAY IN

- ALL LAY-IN AIR DEVICES SHALL BE FOR 24" X 24" CEILING MODULES
- DIFFUSER "H": 14"x14" FACE SIZE
- ALL AIR DEVICES SHALL BE CONSTRUCTED OF ALUMINUM
- METAL-WARE AND PRICE ARE THE ONLY APPROVED MANUFACTURERS.

HVAC AND MATERIAL

THE FOLLOWING HVAC EQUIPMENT AND MATERIALS SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR:

HVAC EQUIPMENT:

INCLUDES ALL ROOFTOP HEATING / COOLING EQUIPMENT WITH ALL ACCESSORIES AS SPECIFIED THIS SHEET, THE PLANS AND IN THE SPECIFICATIONS (DAMPERS, THERMOSTATS AND SMOKE DETECTORS).

FANS:

INCLUDES ALL EXHAUST, SUPPLY AND FLY FANS AS SPECIFIED ON THIS SHEET.

AIR DEVICES:

INCLUDES ALL REGISTERS, GRILLES, DIFFUSERS AND DAMPERS PER PLANS AND SPECIFICATIONS. DINING ROOM AIR DEVICES PRE-PAINTED WITH BLACK BAKED ENAMEL FINISH. SOURCE TO ROUND TRANSITIONS PROVIDED WHERE NECESSARY BY CONTRACTOR.

CURBS:

INCLUDES ALL ROOFTOP EXHAUST FAN AND CONDENSING UNIT CURBS, INCLUDING EQUIPMENT RAILS AND PIPE CURBS. ALL CURBS TO BE ONE-PIECE AND FULLY WELDED.

ELECTRIC HEATERS:

INCLUDES ALL UNIT HEATERS AND DUCT HEATERS.

SMOKE FILTERS:

INCLUDES ALL SMOKE FILTERS.

THE HVAC CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING ALL OTHER ITEMS REQUIRED AND SPECIFIED TO PROVIDE A COMPLETE JOB. THE HVAC CONTRACTOR WILL BE RESPONSIBLE FOR EQUIPMENT DELIVERY, COORDINATION, RECEIVING AND STORING OF THIS EQUIPMENT PACKAGE. INSTALLATION AS DESCRIBED IN THE SPECIFICATIONS.

TRANE HVAC AND MATERIALS PACKAGE:

A TRANE HVAC AND MATERIALS PACKAGE IS AVAILABLE FROM TRANE NATIONAL ACCOUNTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING THIS PACKAGE DIRECTLY WITH TRANE NATIONAL ACCOUNTS. FOR COMPLETE INFORMATION AND PRICING ON THE HVAC AND MATERIAL PACKAGE, CONTACT THE RUBER TUESDAY REPRESENTATIVE AT TRANE NATIONAL ACCOUNTS. (A)AN HASSEMEYER: 888-645-4042).

ELECTRIC UNIT HEATER SCHEDULE

MARK	BAR QTY	DISCHARGE DIRECTION	ELEC. DATA KW V/0/HZ	BASIS OF DESIGN	REMARKS
UH-1 & 2	400	HORIZONTAL	208/1/60	TRANE UHEC-052	MOUNT 9'-0" A.F.F.
UH-3 & 4	-	VERTICAL	208/1/60	TRANE UHA-3320	-

PROVIDE UH-1 & 2 WITH UNIT MOUNTED LINE VOLTAGE THERMOSTATS
PROVIDE UH-3 & 4 WITH WALL MOUNTED LINE VOLTAGE THERMOSTATS

ELECTRIC DUCT HEATER SCHEDULE

MARK	DUCT SIZE	ELECTRICAL DATA KW STEPS V/0/HZ	BASIS OF DESIGN	REMARKS
DH-1	24"x14"	2	208/3/60	TUTCO

PROVIDE DH-1 WITH AIRFLOW SWITCH, DUCT MOUNTED LIMIT THERMOSTAT, ENCLOSED THERMOSTATS AND CONTROL WIRING. REMOVAL OF DUCT HEATER SHALL BE PERMITTED PER N.E.C. AND SHALL BE ILL LISTED.

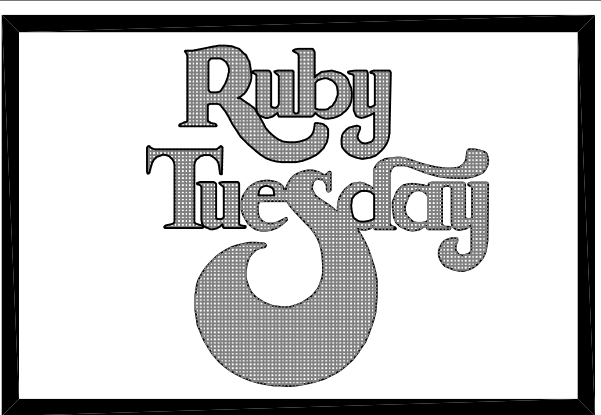
SMOKE FILTER SCHEDULE

MARK	CFM	ELECTRICAL DATA V/0/HZ	FLA	BASIS OF DESIGN	WEIGHT
SF	350/1020	120/1/60	6.4	SMOKEFILTER SE 24	118 LBS.

MECHANICAL NOTES

- CONTRACTOR SHALL VERIFY THAT ALL EQUIPMENT, AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTES, JOINTS, VENTS, ETC.
- ALL ROOF MOUNTED EQUIPMENT AND PENETRATIONS SHALL BE FLASHED PER THESE DRAWINGS AND SUPPLY OF PRE-SEALS TO ACCOMMODATE ELECTRICAL CONDUIT PENETRATIONS.
- ALL HOOD MAKE-UP AIR INTAKES AND OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 15'-0" FROM ANY EXHAUST FAN OR PLUMBING VENT.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH HE INSTALLS. THIS INCLUDES ALL CONDENSERS, REFRIGERANT LINES, AND OTHER ITEMS FURNISHED BY OTHERS AS WELL AS THOSE FURNISHED BY HIM.
- CONDENSATE LINES (FULL SIZE OF CONDENSATE DRAIN OUTLET) FOR ROOFTOP AIR CONDITIONING UNITS SHALL BE TRAPPED AND THEN ROUTED TO SPASHBLOCK LOCATED ADJACENT TO UNIT.
- PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE CONNECTIONS TO ALL MOVING MACHINERY.
- ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
- THIS CONTRACTOR SHALL CORRELATE ALL DUCT AND DIFFUSER LOCATIONS WITH LIGHTING LAYOUTS AS REQUIRED.
- THE CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATION TO THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
- THIS CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES. ALL REQUIRED OPENINGS AND EXHAUSTS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOFS SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF STEELS, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
- THERMOSTATS SHALL BE LOCATED GENERALLY AS SHOWN BUT THEIR EXACT LOCATION SHALL BE FIELD COORDINATED TO AVOID INTERFERENCE WITH WALL MOUNTED ITEMS. ALSO MOUNT THERMOSTATS IN COMPLIANCE WITH ADAAG CODE SECTION 4.2.7.
- CONTRACTOR TO INSULATE BACKSIDE OF ALL DIFFUSERS WITH 2" MINIMUM Owens-Corning Fiberglas ALL SERVICE FACED DUCT WRAP.
- CONTRACTOR TO FABRICATE ALL DUCTWORK TRANSITIONS AS REQUIRED TO ATTACH DUCTWORK TO HVAC EQUIPMENT AND AIR DEVICES.
- ALL ROUND DUCT AND FLEX DUCT RIGID JOINTS SHALL BE THE SAME DIAMETER AS DIFFUSER NECK UNLESS NOTED OTHERWISE.
- PROVIDE RECTANGULAR TO ROUND TRANSITIONS FOR ALL RECTANGULAR NECK DIFFUSERS.

MARK	REVISION	DATE
Δ	UNBID/REVISION	9/20/05



ENGINEER

Kurzynske & Associates
 825 Third Avenue, South
 O'Fallon, Tennessee 37057
 (615) 255-5203

SEAL

Mark Kurzynske
 MARK K. KURZYSKIE
 License No. 938657
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF TENNESSEE

HVAC SCHEDULES

RUBY TUESDAY # 47

1-10E SERVICE ROAD at TYLER DRIVE (1-10 at COURSE SLIDELL)

K&A PROJECT NUMBER

10522

ISSUE DATE

JULY 22, 2005

ISSUE FOR CONSTRUCTION

CHECKED BY

AS NOTED

SHEET NUMBER

M-2