

September 18, 2006

David Caruso
Chairperson
Connecticut Siting Council
10 Franklin Square
New Britain Connecticut 06051

ORIGINAL

EM-NEXTEL-078-06 09 12

Re: Notice of Exempt Modification
Address: 80 North Eagleville Road, Mansfield

Dear Mr. Caruso:

Please be advised that Nextel Communication of Mid-Atlantic, Inc. proposes to modify an existing site at 80 North Eagleville Rd. Nextel is planning to install a diesel generator on a concrete pad at grade within the existing compound and replace a portion of existing fence which is deteriorating.

Discussion:

The 80 North Eagleville Road site consists of monopole within a site compound surrounded by a chain link fence. The coordinates at the site are latitude: 41-48-50, longitude: 72-15-36.

Nextel plans to install a 60 kw diesel generator on a 10' x 5' concrete pad, within the chain fenced compound a replace a portion of deteriorating fencing. The generator will be used only during power outages and emergencies. It will be tested once a week for one half hour, at a time convenient to the landlord.

The planned modification to this site is within the activities explicitly provided for in R.C.S.A. 16-50j-72(b)(2).

1. The proposed modification will not increase the height of the tower and will not extend the boundaries of the existing compound area. The enclosed tower drawings confirm that the planned changes will not increase the overall height of the tower or change the dimensions of the compound.
2. The installation of Nextel equipment, as reflected on the attached site plan, will not require an extension of the site boundaries. The equipment will be located entirely within the existing compound.

208 Gilead Road
Andover, CT 06232

3. The proposed modification to the facility will not increase the noise levels at the existing facility by six decibels or more.
4. There will be no additional antennas to increase the total radio frequency power density, measured at the site boundary, to a level at or above the applicable standard.

For the foregoing reasons, Nextel respectfully submits that the proposed addition modification at the North Eagleville Road facility constitutes an exempt modification under R.C.S.A. 16-50j-72(b)(2).

Respectfully submitted for
Nextel Communications of the Mid-Atlantic, Inc.



By: Marie R. Burbank
Agent

Attachments

Cc: Martin Berliner, Town Manager



Diesel Generator

S60

STANDARD FEATURES

- John Deere heavy-duty, EPA-compliant industrial diesel engine
- 12-volt electric starter and engine-driven battery-charging alternator
- Mechanical governor
- Leroy Somer high-performance, AREP-excited brushless alternator
- 40°C ambient temperature unit-mounted radiator with radiator duct adapter flange
- Integral anti-vibration engine-alternator mounts
- Dry-type, single-stage air filter
- UL main line circuit breaker
- Ingersoll-Rand Intellisys™ autostart control panel, NFPA 110 compatible
- Voltage regulation potentiometer +/-5%
- 12-volt lead acid-type cranking battery with rack and cables
- Thermostatically controlled external block heater with isolation valves
- Flexible fuel lines
- External drains and valves for oil and coolant
- Flexible exhaust connection
- Owners manual
- Protective guards, shields and labeling per UL2200
- UL2200 listed

- Ingersoll-Rand provides single-source service and supply for the entire generating system and accessories.
- Ingersoll-Rand generator sets are prototype and production tested.
- Ingersoll-Rand diesel generators accept rated load in one step.
- Superior motor starting and short circuit capability achieved via the "AREP" excitation system.
- A 1-year / 1,500-hour limited warranty included.

GENERATOR RATINGS

Diesel Ratings

					Standby Rating		Prime Rating	
					150°C / 40°C Rise		125°C / 40°C Rise	
Alternator	Voltage	Phase	Hertz	Power Factor	kW / kVA	Amps	kW / kVA	Amps
LSA 43.2L6	346 / 600	3	60	0.8	65 / 81	79	59 / 74	71
	277 / 480	3	60	0.8	65 / 81	98	59 / 74	89
	254 / 440	3	60	0.8	62 / 78	102	58 / 73	95
	139 / 240	3	60	0.8	65 / 81	196	59 / 74	178
	127 / 220	3	60	0.8	62 / 78	203	58 / 73	190
	120 / 208	3	60	0.8	59 / 74	205	56 / 70	194
	120 / 240	3	60	0.8	59 / 74	177	56 / 70	168
LSA 43.2L8	120 / 240	1	60	1.0	49 / 49	204	44 / 44	184

Standby Rating: Applicable for supplying emergency electrical power in the event of a utility power outage, and to varying load requirement up to nameplate rating for the duration of the power outage. No overload capability is available for this rating. Ratings are in accordance with ISO3046, DIN6271 and BS5514. Prime Rating: Applicable for supplying electrical power in lieu of commercially purchased power. Prime power is the maximum power available at a variable load for an unlimited number of hours. A 10% overload capacity is available for maximum 1 hour duration within a 12-hour period. Prime ratings are in accordance with ISO8528. Overload power criteria is in accordance with ISO3046, DIN6271 and BS5514. For continuous ratings (non varying load), consult the factory. For complete rating definitions, please refer to the rating definitions guideline located in the Operations and Maintenance Manual or contact IR Energy Systems for this document.



S60 APPLICATION DATA

ENGINE DATA

Manufacturer	John Deere
Model	4045TF270
Intake Air	Turbocharged
Cylinder Arrangement	In-Line 4
Displacement, L (cu in)	4.5 (276)
Bore And Stroke, mm (in)	106 x 127 (4.19 x 5)
Compression Ratio	17.0:1
Rated rpm	1,800
Gross Engine Power Output, bhp (kWm)	99 (74)
BMEP At Rated Load, psi (kPa)	158 (1090)
Cylinder Head Material	Grey iron
Piston Type And Material	Cast aluminum
Crankshaft Material	Steel
Valve (Exhaust) Material	Steel
Governor Type	Mechanical
Frequency Regulation, No-Load To Full-Load	3 - 5%
Frequency Regulation, Steady State	+/- 1.5%
Air Cleaner Type	Dry

LUBRICATION SYSTEM

Type Of Oil Pump	Full pressure
Oil Pan Capacity, L (qt)	12.2 (13)
Oil Pan Capacity With Filter, L (qt)	13.2 (14)
Oil Filter: Quantity, Type	1, Cartridge
Oil Cooler	Water cooled
Oil Pressure Normal Operating Range	
At Rated rpm, kPa (psi)	345 (50)
Low Oil Pressure Pre-Alarm Setting, kPa (psi)	103 (15)
Low Oil Pressure Shutdown Setting, kPa (psi)	48 (7)

OPERATING REQUIREMENTS

Air Requirements:	
Combustion Air, m³/min (cfm)	6 (212)
Radiator-Cooled Cooling Air, m³/min (scfm)*	186 (6563)

Heat Rejected To Ambient Air:	
Engine, kW (Btu/min)	11.1 (632)
Generator, kW (Btu/min)	6.7 (381)

* Air density = 1.20 kg/m (0.075 lbm/ft³)

EXHAUST SYSTEM

Exhaust Flow At Rated kW, m/min (cfm)	15.8 (558)
Exhaust Temp At Rated kW,	545 (1013)
Dry Exhaust, °C (°F)	
Max Allowable Back Pressure, kPa (in Hg)	7.5 (2.2)
Exhaust Outlet Size Connection, mm (in)	76.2 (3.0)

FUEL SYSTEM

Recommended Fuel	#2 Diesel
Fuel Supply Line, Min ID, mm (in)	5/16" I.D. Hose - Line Length Under 10', 7/16" I.D. Hose - Line Length Over 10'
Fuel Return Line, Min ID, mm (in)	5/16" I.D. Hose - Line Length Under 10', 7/16" I.D. Hose - Line Length Over 10' .9 (3)
Max Lift, Engine-Driven Fuel Pump, m (ft)	113 (29.9)
Max Fuel Flow, L/h (gph)	Stanadyne
Fuel Injection Pump	Manual
Fuel Prime Pump	8 Micron @ 98%
Fuel Filter	Efficiency, With Integral Water Separator

ENGINE ELECTRICAL SYSTEM

Ignition System	NA
Battery-Charging Alternator	50 amps at 12 volts DC
Ground Polarity	Negative
Starter Motor Voltage (DC)	12-volt
Battery, recommended:	
Quantity, CCA, temp rating	1-12V, 640, -18°C (0°F)

Site Derating Factors

Temperature:
Derate .5% per 5.5°C (10°F) temperature above 25°C (77°F)

Elevation:
Derate 5% per 500 m (1,640') elevation above 1000 m (3,281')

FUEL CONSUMPTION

Diesel, L/h (gph) at % load - Standby Rating
100% — 19.5 (5.2), 75% — 14.8 (3.9), 50% — 10.6 (2.8),
25% — 5.7 (1.5)



S60 APPLICATION DATA

COOLING SYSTEM

Type Of System

Ambient Temperature, °C (°F)

Coolant Temperature Normal Operating Range, °C (°F)

Coolant Temperature Pre-Alarm Setting, °C (°F)

Coolant Temperature Shutdown Setting, °C (°F)

Radiator System Capacity, Including Engine, L (gal)

Coolant Flow Rate, L/min (gpm)

Heat Rejection To Coolant At Rated kW (Btu/min)

Water Pump Type

Type Of Fan

Number Of Fan Blades

Diameter Of Fan, mm (in)

Fan, kWm (hp)

Max Restriction Of Cooling Air, Intake And Discharge Of Radiator, kPa (in H₂O)

Coolant Heater

Pressurized, closed recovery

40 (104)

82 - 94 (180 - 201)

107 (225)

113 (235)

18.9 (5)

144 (38)

46 (2618)

Centrifugal

Pusher

8

533 (21)

2.0 (2.68)

.2 (.8) Open unit

1500W, 120 VAC

CONTROL PANEL

Intellisys

- Powerful and flexible microprocessor-based digital control panel for easy genset operation
- Built-in generator and engine protection parameters with NFPA 110 capability
- Quick access to all generator and engine measurements and status
- Capable of local or remote monitoring and control of genset via dedicated RS232 port
- Large backlit LCD screen for convenient operator access and six LED status displays

ALTERNATOR SPECIFICATIONS

Manufacturer

Design

Exciter Type

Stator

Rotor

Bearing: Quantity, Type

Amortisseur Windings

Leads: Quantity, Type

LSA 43.2L6

LSA 43.2L8

Insulation Material

Standard Temperature Rise

Phase Rotation

Total Harmonic Distortion

Telephone Influence Factor (TIF)

Telephone Harmonic Factor (THF)

Voltage Regulator

Voltage Regulation, No-Load To Full-Load

Recovery Time (20% Voltage Dip) ms

Unbalanced Load Capability

One-Step Load Acceptance

Peak Motor Starting kVA At 480 V, (0.6 Starting Power Factor):

LSA 43.2L6

Leroy Somer

4-pole, rotating field

Brushless, AREP

2/3 pitch

Direct coupled by flexible disc

1, sealed

Full

12, reconnectable

12, reconnectable

Class H per NEMA MG1

150°C standby / 125°C prime

A, B, C

< 4%

< 50%

< 2%

R438

+/- 1.5%

500

25%

100% of rating

217 (35% voltage dip)

- Compliance with IEC 34.1/34.2
 - UTE: NFC 51.111 - VDE 0530
 - BS 4999 and 5000 - NEMA: MG1.22 - ISO 8528.3 - CSA.

- Generator allows as standard sustained short-circuit current of up to 300% of rated current for up to 10 seconds.

- Vacuum-impregnated windings with epoxy varnish for dependability and long life.

- Alternator is self-ventilated and IP23 drip-proof constructed.



S60

OPTIONS

Generator Set

- Oil temperature alarm – required for NFPA Level 1
- Heavy-duty air filter w/ restriction indicator
- Oil temperature shutdown
- Closed crankcase ventilation canister kit

Enclosed Unit

- Weather protective enclosure, internally mounted exhaust system
- Sound attenuated enclosure, internally mounted exhaust system

Exhaust System Open Units

- Residential silencer
- Critical silencer
- Exhaust pipe kit

Fuel System

- Flexible fuel line
- Fuel/water separator filter

Electrical System

- 3.5-amp battery charger, float
- 6-amp battery charger, float-equalize
- 6-amp battery charger, float-equalize with alarms
- 10-amp battery charger, float-equalize
- 10-amp battery charger, float-equalize with alarms
- Battery warmer
- 120-volt alternator anti-condensation heater

Control Panel

- Remote annunciator
- GenConnect monitoring and control communication system

Additional Accessories

- Automatic transfer switch
- Main line circuit breaker options
- Additional owners manuals

Service And Extended Warranty

- Trained service personnel providing IR parts, service and planned maintenance agreements
- Extended warranty

WEIGHT AND MEASUREMENTS

Open Model S60

Weight (432-L6 model)

Weight (432-L8 model)

Overall Size – l x w x h

mm (in)

1125 kg (2,481 lb)

1145 kg (2,525 lb)

2225 (88) x 997 (39) x 1178 (46)

Weather Protected Model

Weight (432-L6 model)

Weight (432-L8 model)

Overall Size – l x w x h

mm (in)

1405 kg (3,097 lb)

1425 kg (3,142 lb)

2879 (113) x 997 (39) x 1524 (60)

Sound Attenuated Model

Weight (432-L6 model)

Weight (432-L8 model)

Overall Size – l x w x h

mm (in)

1425 kg (3,142 lb)

1445 kg (3,186 lb)

2879 (113) x 997 (39) x 1524 (60)

Note: All weights with coolant and oil.

Distributed by:



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(877) IR POWER www.irenergysystems.com

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OUTDOOR ELECTRICAL GENERAL NOTES

1. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT. CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION.
2. THESE PLANS ARE DIAGRAMMATIC ONLY, AND NOT TO BE SCALED.
3. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC. FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
4. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL "I" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, AND NIBEL.
5. ALL CONDUIT INSTALLED SHALL BE SURFACE MOUNTED UNLESS OTHERWISE NOTED.
6. ELECTRICAL CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY, LOCAL ELECTRICAL CODES AND O.S.H.A.
7. ELECTRICAL CONTRACTOR SHALL SECURE ALL NECESSARY ELECTRICAL PERMITS, AND PAY ALL REQUIRED FEES.
8. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF NO LESS THAN ONE YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL, OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION AT THE EXPENSE OF THE CONTRACTOR.
9. ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE.
10. PROVIDE THE OWNER WITH ONE SET OF COMPLETE ELECTRICAL "AS BUILT" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS AND CIRCUITS, WITHIN 10 WORKING DAYS OF PROJECT COMPLETION.
11. ALL BROCHURES, OPERATION MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO PROJECT MANAGER AT JOB COMPLETION.
12. USE T-TAP CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR FOR LIGHTING FIXTURE.
13. ALL CONDUCTORS SHALL BE COPPER.
14. MAINTAIN AN 8" CLEARANCE FROM THE TOP OF GRADE TO THE TOP OF THE PROPOSED CABLE BRIDGE.
15. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
16. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.
17. PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
18. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC. IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND REBARS WILL NOT BE DRILLED INTO, CUT, OR DAMAGED UNDER ANY CIRCUMSTANCES.
19. LOCATION OF TENDONS AND RE-BARS ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY, OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING STEEL TENDONS.
20. ALL EXISTING UNDERGROUND LINES ON SITE TO BE LOCATED PRIOR TO CONSTRUCTION.
21. SHELTER IS PRE-WIRED AND TESTED AT FACTORY. COORDINATE FINAL POWER CONNECTION WITH LOCAL INSPECTOR.
22. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND/OR CATALOG CUT-SHEETS ON ALL NON-SPECIFIED ORIGINAL MATERIALS AND EQUIPMENT.
23. UPON COMPLETION OF WORK, CONDUCT CONTINUITY SHORT CIRCUIT, AND FALL OF POTENTIAL GROUNDING TEST WITH WRITTEN REPORT SUBMITTED TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL.
24. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
25. ALL EXTERIOR WALL PENETRATIONS SHALL BE SILICONE SEALED.
26. ALL DOWNLEADS #2 TINNED COPPER TO BE PROTECTED BY 1/2" P.V.C. PIPE AND SECURED TO SHELTER OR TOWER.
27. COMPRESSION FITTINGS TO BE USED ON ALL "EMT" CONDUITS (NO SET SCREWS).
28. ALL #6 STRANDED COPPER WITH GREEN INSULATION TO BE ATTACHED WITH CRIMPED DOUBLE LUG BOLTED ATTACHED WITH CAD PLATED BOLTS AND STAR WASHERS TYPICAL AND NO-OX GREASE.
29. COORDINATE ALL METER WORK WITH METER BANK OWNER AND LOCAL UTILITY COMPANY.

CONCRETE NOTES

1. DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
2. MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE.
3. CONCRETE SHALL BE NORMAL WEIGHT, 6 % AIR ENTRAINED (± 1.5 %) WITH A MAXIMUM 4" SLUMP, AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE NOTED.
4. MAXIMUM AGGREGATE SIZE SHALL BE 1".
5. THE FOLLOWING MATERIALS SHALL BE USED:

PORTLAND CEMENT:	ASTM C 150, TYPE I
REINFORCEMENT:	ASTM A 185
NORMAL WEIGHT AGGREGATE:	ASTM C 33
WATER:	DRINKABLE
ADDMIXTURES:	NON-CHLORIDE CONTAINING
6. REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318.
7. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
8. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

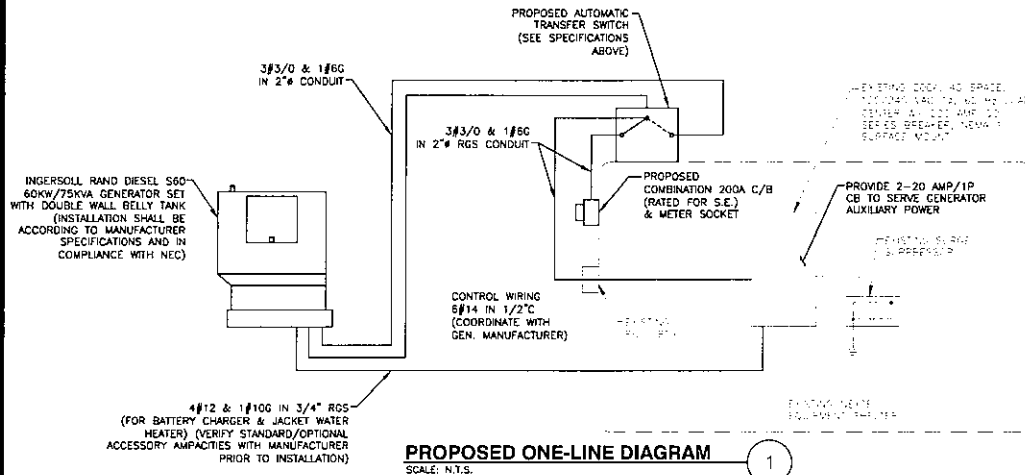
CONCRETE CAST AGAINST EARTH.....	3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 AND LARGER.....	2 IN.
#5 AND SMALLER & WWF.....	1 1/2 IN.
9. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
10. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURERS WRITTEN RECOMMENDED CONCURE THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.
11. ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI 301.
12. DO NOT WELD OR TACKWELD REINFORCING STEEL.
13. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
14. LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT.
15. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
16. PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANES OF WEAKNESS. VIBRATE THE CONCRETE TO FULLY EMBED REINFORCING. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE THROUGH CHUTES OR FORMWORK.
17. DO NOT PLACE CONCRETE IN WATER, ICE OR ON FROZEN GROUND.
18. DO NOT ALLOW CONCRETE OR SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT.
19. FOR COLD-WEATHER AND HOT-WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS, MINIMUM.
20. CONCRETE SHALL BE RUBBED TO A ROUGH GROUT FINISH. PADS SHALL BE SEALED BY STEEL TROWEL.
21. FOUNDATION BASED UPON EQUIPMENT SHELTER BEING A OLDCASTLE RCS SHELTER SYSTEM, 11'-8" x 20'-0" PRECAST CONCRETE SHELTER. WEIGHT WITH EQUIPMENT 74,700 LBS.
22. FOUNDATION TO BE PLACED IN SUITABLE SOIL WITH A MINIMUM ALLOWABLE DESIGN BEARING CAPACITY OF 3850 P.S.F. AT A DESIGN DEPTH OF 3'-6" BELOW GRADE. IF SITE CONDITIONS VARY FROM THOSE STATED ABOVE, CONTRACTOR TO NOTIFY THE CONSTRUCTION MANAGER AND THE ENGINEER.
23. MAXIMUM PERMISSIBLE VARIATION OF PIER LOCATION SHALL BE 1". CONCRETE PIER VARIANCE FROM PLUMB SHALL NOT EXCEED 3/4".
24. TOPS OF CONCRETE PIERS SHALL BE WITHIN 0.02 FEET OF ELEVATION SPECIFIED. SHIM, AS REQUIRED, TO LEVEL THE SHELTER.
25. REMOVE ALL ORGANIC MATERIAL PRIOR TO PLACEMENT OF STONE. IF FILLING IS REQUIRED, BACKFILL AND COMPACT WITH WELL-DRAINING GRAVEL.

GENERAL NOTES

1. CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY, LOCAL CODES AND O.S.H.A.
2. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
3. DO NOT CHANGE SIZE NOR SPACING OF STRUCTURAL ELEMENTS.
4. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
5. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
7. DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUND DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
8. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING.
9. EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
10. REPAIR ANY DAMAGE DURING CONSTRUCTION TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CONSTRUCTION MANAGER.
11. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
12. PAINT ALL NEWLY INSTALLED EQUIPMENT TO MATCH EXISTING PER LAND LORD SPECIFICATIONS.

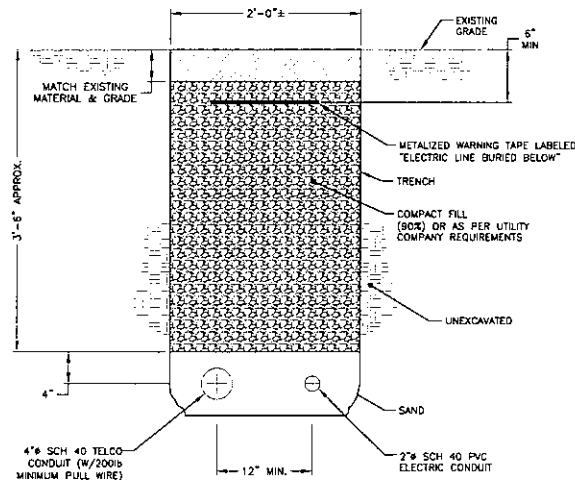
STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
2. ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH SPECIFICATION ASTM A36 UNLESS OTHERWISE NOTED. GALVANIZING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, MARKS, AND WELDS IN THE GALVANIZED AREAS SHALL BE REPAIRED BY FIELD TOUCH-UP PRIOR TO COMPLETION OF THE WORK.
3. DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
4. CONNECTIONS:
 - A. ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1 WHERE FILLET WELD SIZES ARE NOT SHOWN. PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION" 9TH EDITION. AT THE COMPLETION OF WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
 - B. BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS (SIZE AS NOTED) AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
 - C. CONNECTION DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW AND APPROVAL BY ENGINEER.



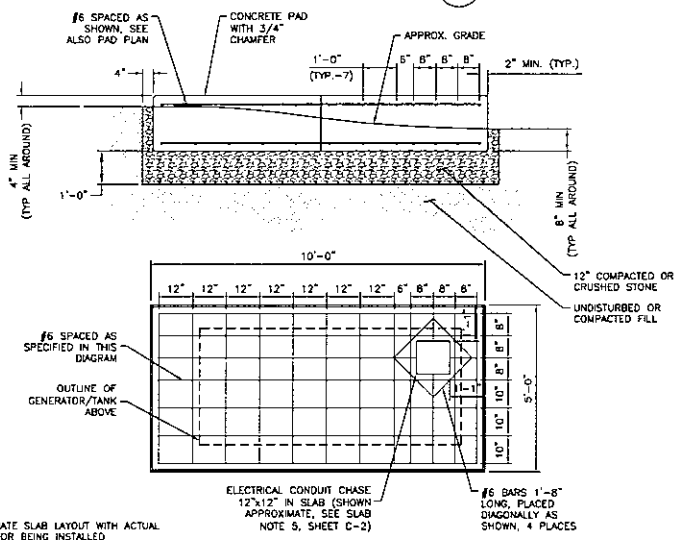
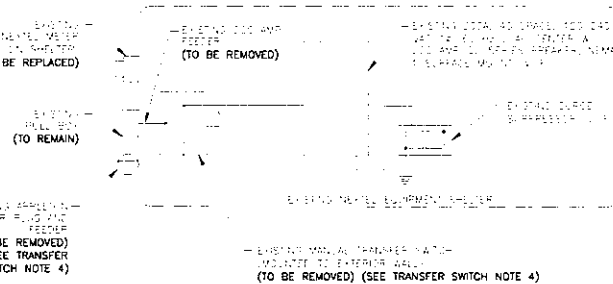
TRANSFER SWITCH NOTES:

1. PROVIDE 200AMP, 120/240V, SINGLE PHASE, 2 POLE AUTOMATIC TRANSFER (A.T.S.) SWITCH WITH NEMA TYPE 3R ENCLOSURE, FULL MICROPROCESSOR CONTROL, FULL CURRENT-RATED NEUTRAL BAR, AND TWO (2) SETS OF AUXILIARY CONTACTS FOR CUSTOMER (NEXTEL) USE.
2. CONTRACTOR SHALL VERIFY A.T.S. MAKE, MODEL, AND ALL SPECIFICATIONS WITH NEXTEL CM AND INGERSOLL RAND PRIOR TO COMMENCEMENT OF THE WORK.
3. COORDINATE THE LOCATION OF THE A.T.S. OUTSIDE THE NEXTEL SHELTER WITH NEXTEL CM. MEET ALL NEC CODES.
4. EXISTING MANUAL TRANSFER SWITCH & APPLICTION PLUG SHALL BE SALVAGED AND TURNED OVER TO THE NEXTEL CM UPON REMOVAL.



NOTES:

1. IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL.
2. IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL. COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING.
3. CONTRACTOR SHALL HAND DIG U/G TRENCHING IN AREAS AROUND EXISTING UTILITIES.



GENERAL ELECTRIC NOTES:

1. ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH LATEST CONNECTICUT ELECTRIC CODE REQUIREMENTS & LOCAL CODES, LAWS & ORDINANCES. PROVIDE ALL COMPONENTS WIRING SIZES AS REQUIRED TO MEET THE NEC.
2. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL SITE CONDITIONS AND SHALL BE PERFORMED UNDER THIS CONTRACT.
3. SUBCONTRACTOR SHALL PERFORM ALL VERIFICATION, OBSERVATIONS, TEST, AND EXAMINATIONS PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE PROJECT MANAGER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
4. THE PLANS ARE DIAGRAMMATIC ONLY. FOLLOW AS CLOSELY AS POSSIBLE.
5. SUBCONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, INSTALLATION, PERMITS, LICENSES, SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS AND SPECIFICATIONS HEREIN AND/OR AS OTHERWISE REQUIRED.
6. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED. MATERIAL SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR A GROUP OF EQUIPMENT. MATERIAL SHALL MEET WITH THE APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND UL.
7. SUBCONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL COVERING STATE AND LOCAL CODES AND OSHA AND CONNECTICUT ELECTRICAL CODE.
8. SUBCONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND PAY ALL REQUIRED FEES. SUBCONTRACTOR SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER DATE OF ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING PERIOD SHALL BE CORRECTED AT ONCE UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF CONTRACTOR.
10. PROVIDE CONSTRUCTION MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
11. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC., SHALL BE TURNED OVER TO THE OWNER AT JOB COMPLETION.
12. ALL MATERIALS SHALL BE UL LISTED.
13. POWER WIRE AND CABLE CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM UNLESS SPECIFIED OTHERWISE ON DRAWINGS. CONDUCTORS #10 & SMALLER SHALL BE SOLID COPPER. CONDUCTORS #8 AND LARGER SHALL BE STRANDED.
14. ALL CONDUCTORS SHALL BE THINN.
15. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANEL, PULL BOX, JUNCTION BOX, SWITCH BOX, ETC.
16. GROUNDING CONDUCTORS SHALL BE STRANDED COPPER AND SIZED AS SHOWN ON DRAWINGS.
17. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES AND CONNECTICUT ELECTRICAL CODE.
18. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE EXCEEDS, NOTIFY THE ENGINEER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING RESISTANCE VALUE. SUBMIT TEST REPORTS TO PROJECT MANAGER. FURNISH TO NEXTEL ONE COMPLETE SET OF PRINTS SHOWING "INSTALLED WORK".
19. CONDUIT
 - A. RIGID CONDUIT SHALL BE THREADED UL LABELED GALVANIZED ZINC COATED. INTERIOR AND EXTERIOR SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS EXPOSED ON BUILDING EXTERIOR. UL LABELED ZINC COATED EMT W/ COMPRESSION COUPLINGS CAN BE USED ONLY WHEN INSTALLED IN PROTECTED, DRY AREAS.
 - B. FLEXIBLE LIQUID TIGHT CONDUIT SHALL HAVE UL LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. ALL CONDUIT SHALL HAVE FULL SIZE EQUIPMENT GROUND WIRE.
 - C. CONDUIT RUNS SHALL BE SURFACE MOUNTED IN CEILINGS OR WALLS UNLESS INDICATED OTHERWISE. CONDUIT INDICATED SHALL RUN PARALLEL OR AT RIGHT ANGLES TO THE CEILING, FLOOR, OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH THE OWNER PRIOR TO INSTALLATION. NO HORIZONTAL CONDUITS SHALL BE BELOW 7' A.F.F. NO BX, MC, OR ROMEX CABLE IS PERMITTED.
20. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
21. ALL CONDUIT INSTALLED MAY BE SURFACE MOUNTED UNLESS OTHERWISE NOTED.
22. ALL CONDUIT ONLY (C.O.) INSTALLATIONS SHALL HAVE A 1/4" PULL WIRE OR ROPE.
23. MOUNTING HEIGHTS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
24. PATCH, REPAIR, AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK TO MATCH EXISTING SURROUNDINGS.
25. PENETRATIONS IN FIRE RATED WALLS SHALL BE SEALED IN ACCORDANCE WITH APPLICABLE CODES.
26. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT SCREWED ON ENGRAVED LABELS WITH WHITE LETTERING AND BLACK FIELD, NO ADHESIVES ALLOWED.
27. COORDINATE THE INSTALLATION OF THE NEXTEL ELECTRICAL SERVICE WITH BUILDING OWNER.
28. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, INSULATION RESISTANCE, AND FALL TO GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAUNTED CONDITION.

