LAND USE DEPARTMENT TOWN OF NEW FAIRTIELD 4 Pough Hill Pond New Fairfield, CT 06812-2665

Cellco Partnership

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EROSION (TP)	2/24/105
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PUBLIC WORKS	
FIRE MARSHAL DNI	/
BUILDING OFF. 4 M	101909

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d.b.a. **Verizon** wireless WIRELESS COMMUNICATIONS FACILITY

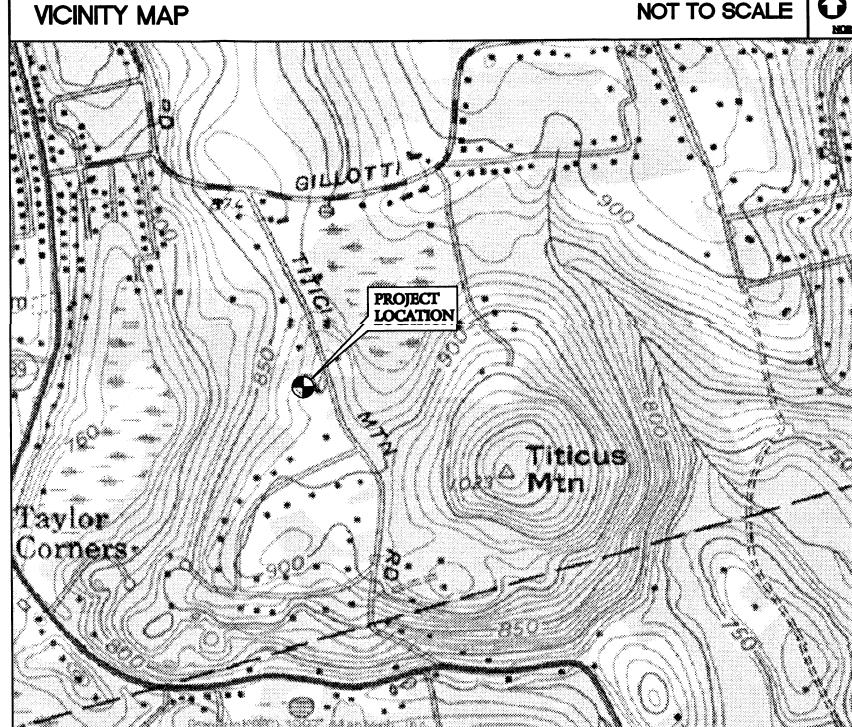
NEW FAIRFIELD TITICUS MOUNTAIN ROAD NEW FAIRFIELD, CONNECTICUT

GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH THE LATEST ACCEPTED EDITIONS OF BOCA NATIONAL BUILDING CODE W/CONNECTICUT SUPPLEMENT, NFPA 101 WITH CONNECTICUT FIRE SAFETY CODE, NATIONAL ELECTRICAL CODE AND LOCAL CODES.
- 2. CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUBCONTRACTORS AND ALL RELATED PARTIES. THE SUBCONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
- 3. CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON THE DRAWINGS OR IN THE WRITTEN SPECIFICATIONS.
- 4. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB ALL IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
- 5. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND ALL INSPECTIONS REQUIRED AND SHALL ALSO PAY FEES REQUIRED FOR THE GENERAL CONSTRUCTION, PERMITS SHALL BE PAID FOR BY THE RESPECTIVE SUBCONTRACTORS.
- 6. CONTRACTOR SHALL MAINTAIN A SURRENT SET OF DRAWINGS AND SPECIFICATIONS ON SITE AT ALL TIMES AND INSURE DISTRIBUTION OF NEW DRAWINGS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS SOON AS THEY ARE MADE AVAILABLE. ALL OLD DRAWINGS SHALL BE MARKED VOID AND REMOVED FROM THE CONTRACT AREA. THE CONTRACTOR SHALL FURNISH AN 'AS-BUILT' SET OF DRAWINGS TO OWNER UPON COMPLETION OF PROJECT.
- 7. LOCATION OF EQUIPMENT, AND WORK SUPPLIED BY OTHERS THAT IS DIAGRAMMATICALLY INDICATED ON THE DRAWINGS SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE LOCATIONS AND DIMENSIONS SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF THE SUBCONTRACTORS.
- 8. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURES AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY. MAINTAIN EXISTING BUILDING'S OPERATIONS, COORDINATE WORK WITH BDG. OWNER.
- 9. DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.
- 10. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.

- 11. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUBCONTRACTORS FOR ANY CONDITION PER MFR.'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
- 12. ANY AND ALL ERRORS, DISCREPANCIES, AND 'MISSED" ITEMS ARE TO BE BROUGHT TO THE ATTENTION OF THE CLIENT DURING THE BIDDING PROCESS BY THE CONTRACTOR. ALL THESE ITEMS ARE TO INCLUDED IN THE BID. NO 'EXTRA' WILL BE ALLOWED FOR MISSED ITEMS.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON—SITE SAFETY FROM THE TIME THE JOB IS AWARDED UNTIL ALL WORK IS COMPLETE AND ACCEPTED BY THE OWNER.
- 14. CONTRACTOR TO REVIEW ALL SHOP DRAWINGS AND SUBMIT COPY TO ENGINEER FOR APPROVAL. DRAWINGS MUST BEAR THE CHECKER'S INITIALS BEFORE SUBMITTING TO THE CONSTRUCTION MANAGER FOR REVIEW.
- 15. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES, AND EXISTING CONDITIONS AT THE SITE, PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA.
- 16. COORDINATION, LAYOUT, FURNISHING AND INSTALLATION OF CONDUIT AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 17. THE CONTRACTOR SHALL NOTIFY THE MANAGEMENT OF ANY AND ALL ACTIVITIES THAT MAY DISRUPT DAILY BUILDING OPERATIONS IN WRITING A MINIMUM OF THREE (3) DAYS IN ADVANCE. WORK SHALL BE ARRANGED FOR CONTINUOUS PERFORMANCE WHENEVER POSSIBLE. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, INCLUDING OVERTIME, IF REQUIRED, TO ASSURE THAT EXISTING OPERATING SERVICES WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE NECESSARY CONNECTIONS.
- 18. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUB—CONTRACTORS FOR ANY CONDITION PER THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
- 19. ANY DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR ANY REPAIRS REQUIRED FOR EXISTING STRUCTURES IF DAMAGED DURING CONSTRUCTION ACTIVITIES.
- 20. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT LEAST 48 HOURS PRIOR TO ANY EXCAVATIONS AT 1-800-922-4455.
- 21. CONTRACTOR SHALL COMPLY WITH OWNERS ENVIRONMENTAL ENGINEER ON ALL METHODS AND PROVISIONS FOR ALL EXCAVATION ACTIVITIES INCLUDING SOIL DISPOSAL. ALL BACKFILL MATERIALS TO BE PROVIDED BY THE CONTRACTOR.

SITE DIRECTIONS	
FROM: 99 EAST RIVER DRIVE HARTFORD, CT	TO: TITICUS MOUNTAIN ROAD NEW FAIRFIELD, CT
START OUT GOING EAST ON EAST RIVER DRIVE TOWARD DARLIN LEFT ONTO US-44W/CONNECTICUT BLVD. STAY STRAIGHT TO GONTO I-84W. TAKE THE CT-39 EXIT (EXIT 5) TOWARD CT-53 STREET/CT-39. CONTINUE TO FOLLOW CT-39. STAY STRAIGHT BECOMES TITCUS MOUNTAIN ROAD. TOWER ON LEFT ABOUT 1/	GO ONTO RAMP. MERGE ONTO I-84W/US-6W/US-44W. MERGE I/DOWNTOWN DANBURY/BETHEL. TURN LEFT ONTO NORTH MAIN TO GO ONTO OLD BALL POND ROAD. OLD BALL POND ROAD
VICINITY MAP	NOT TO SCALE



PROJECT SUMMARY SITE NAME: NEW FAIRFIELD

CONTACT PERSON

GOVERNING CODE:

DDRESS: TITICUS MOUNTAIN ROAD
NEW FAIRFIELD, CONNECTICUT

MARK GAUGER

CONNECTICUT BUILDING CODE

VERIZON WIRELESS

CONNECTICUT LIFE SAFETY CODES

LEASOR: VERIZON WIRELESS

APPLICANT: VERIZON WIRELESS
99 EAST RIVER DRIVE
HARTFORD, CT. 06108

ENGINEER:

NATCOMM LLC.
63-2 NORTH BRANFORD RD.
BRANFORD, CT. 06405

TOWER COORDINATES: LATITUDE: 41°-27′-03" LONGITUDE: 73°-30′-58"

ABBREVIATIONS

B/FTG. BOTTOM OF FOOTING ELEVATION

T/SLAB TOP OF SLAB ELEVATION

F.F. FINISHED FLOOR

N.T.S. NOT TO SCALE

BRG. P BEARING PLATE

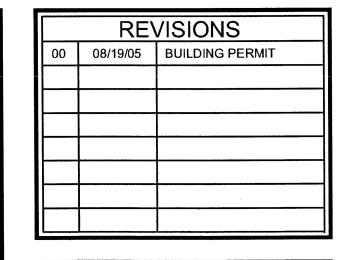
SYMBOL DESCRIPTION

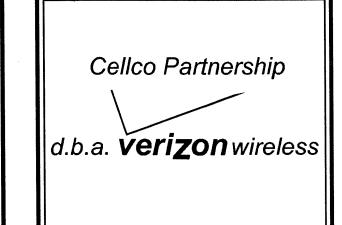
SECTION OR DETAIL NUMBER SHEET WHERE DETAIL/SECTION OCCURS

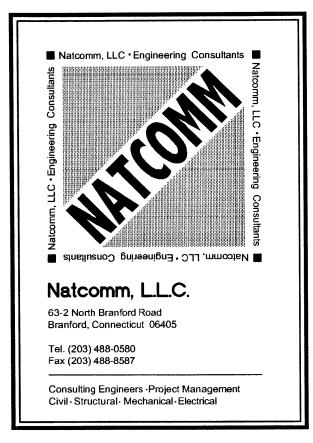
ELEVATION NUMBER

SHEET WHERE ELEVATION OCCURS

SHE	SHEET INDEX										
SHT. NO.	DESCRIPTION	REV. NO.									
T-1	TITLE SHEET	00									
C-1	COMPOUND PLAN & TOWER ELEVATION	00									
C-2	EQUIPMENT ROOM PLAN SCHEDULE AND NOTES	00									
6–₹	SITE BETAILS AND NOTES	ôô									
M-1	MECHANICAL PLAN	00									
M-2	MECHANICAL DETAILS AND SCHEDULES	00									
M-3	MECHANICAL SPECIFICATIONS	00									
E-1	ELECTRICAL NOTES & ABBREVIATIONS	00									
E-2	ELECTRICAL PLANS	00									
E-3	ELECTRICAL DETAILS	00									
E-4	GROUNDING DETAILS	00									
E-5	CELLULAR DETAILS	00									
E-6	CABLE TRAY PLAN & DETAILS	00									
E-7	ELECTRICAL SPECIFICATIONS	00									











NEW FAIRFIELD

TITICUS MNT. RD. NEW FAIRFIELD, CONNECTICUT

PROJECT NO: 05073

DRAWN BY: TMS

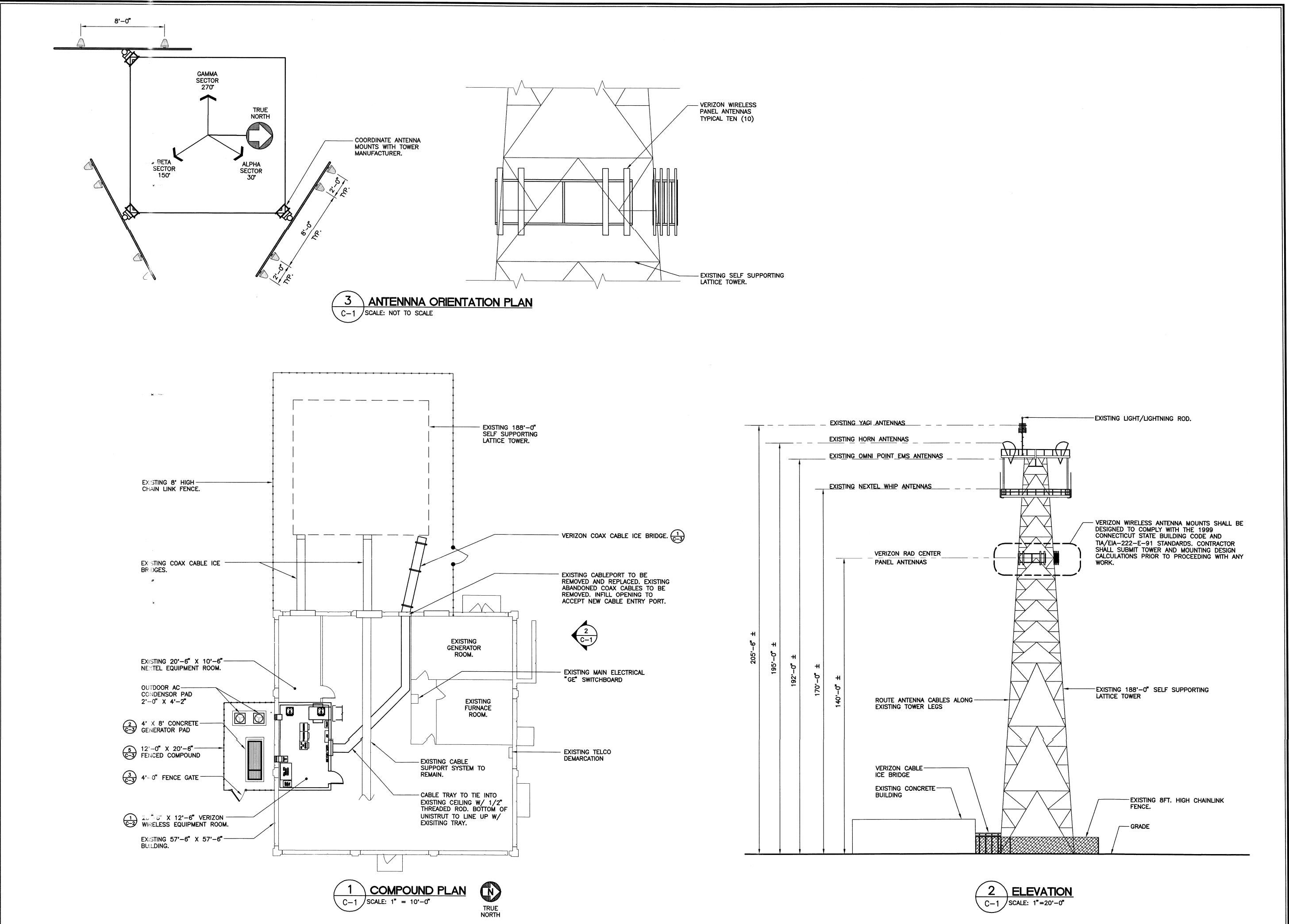
CHECKED BY: CFC

SCALE: AS NOTED

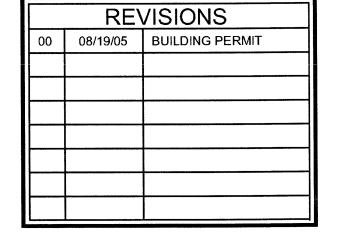
DATE: 08/19/05

TITLE SHEET

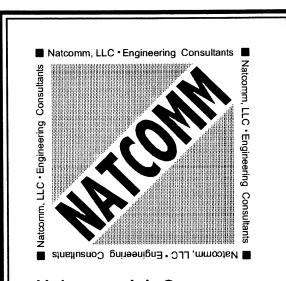
T-1
DWG. 1 OF 14



Action 1



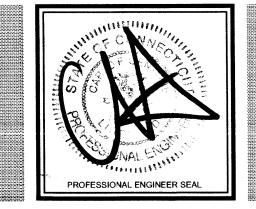
Cellco Partnership d.b.a. **Verizon** wireless



Natcomm, L.L.C.
63-2 North Branford Road
Branford, Connecticut 06405
Tel. (203) 488-0580
Fax (203) 488-8587

Consulting Engineers -Project Management Civil - Structural - Mechanical - Electrical





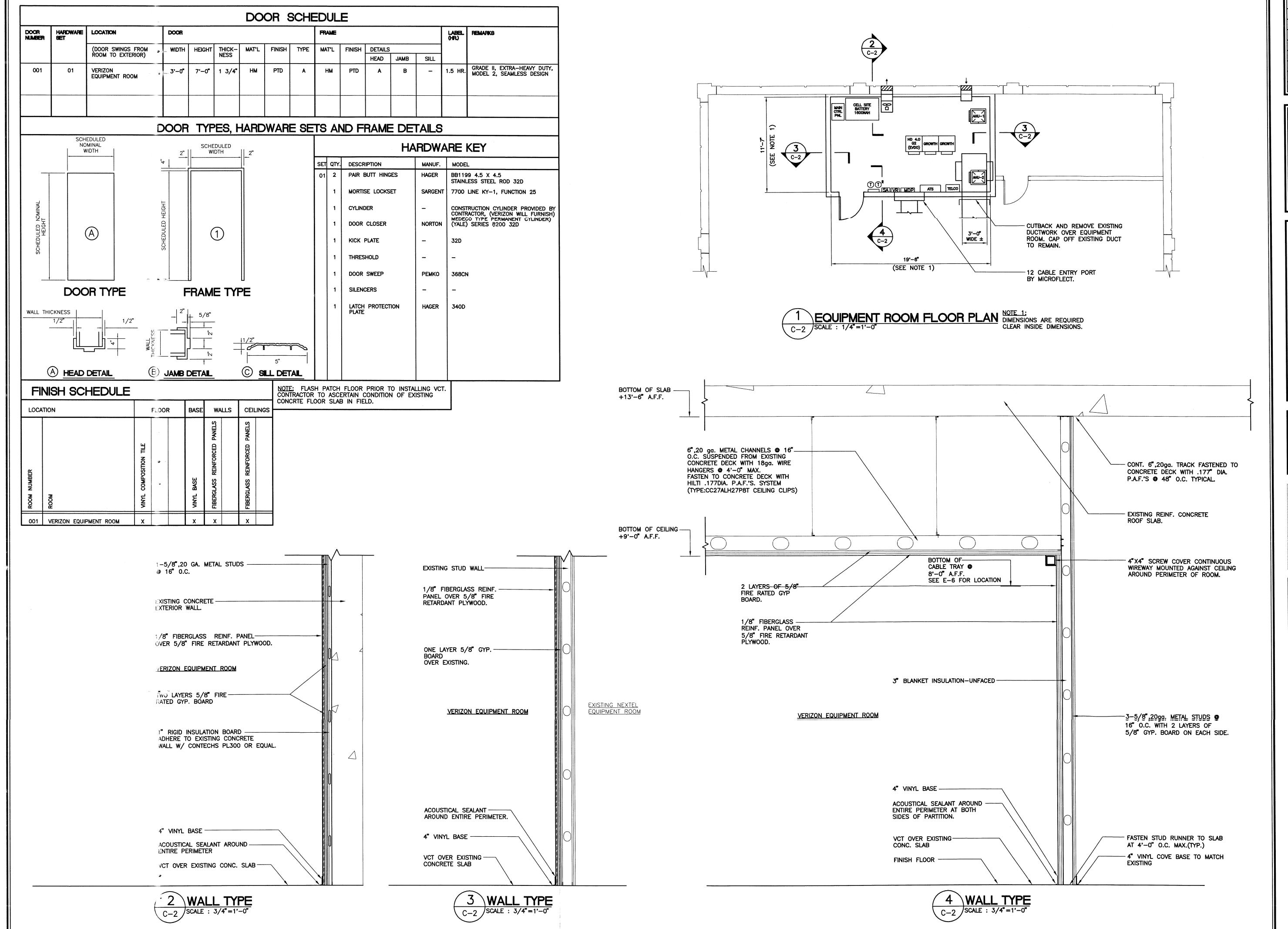
NEW FAIRFIELD

TITICUS MNT. RD. NEW FAIRFIELD, CONNECTICUT

PROJECT NO:	05073
DRAWN BY:	DFB
CHECKED BY:	CFC
SCALE:	AS NOTED
DATE:	08/19/05

COMPOUND PLAN AND TOWER ELEVATION

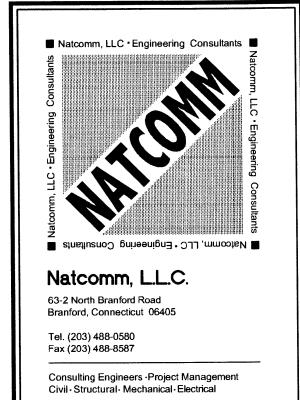
C-1
DWG. 2 OF 14



REVISIONS

00 08/19/05 BUILDING PERMIT

Cellco Partnership d.b.a. **verizon** wireless





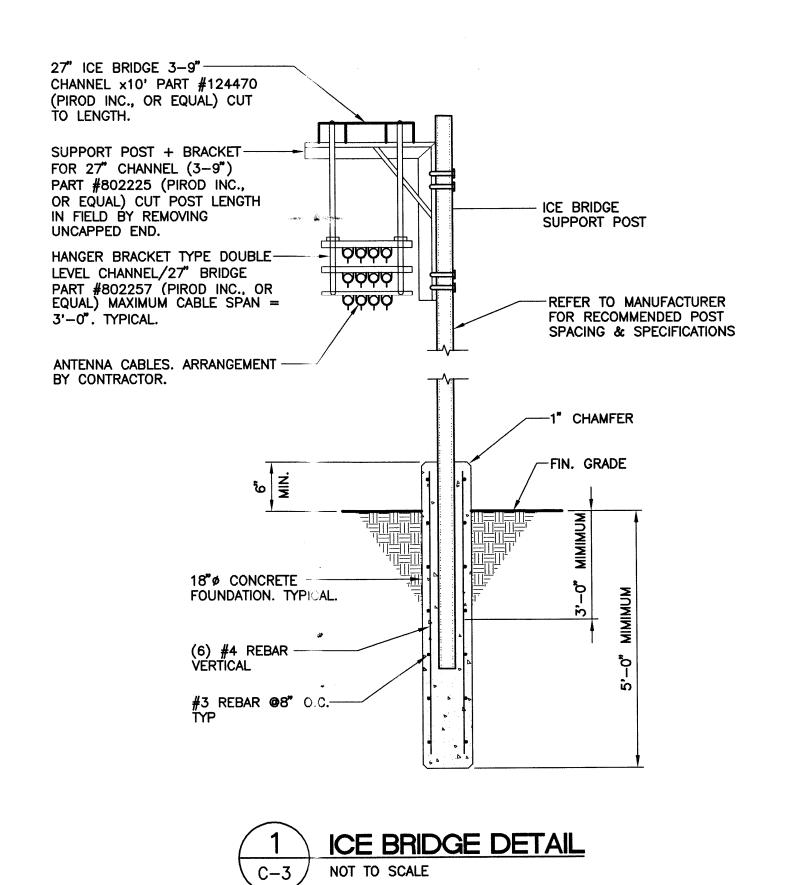


TITICUS MNT. RD. NEW FAIRFIELD, CONNECTICUT

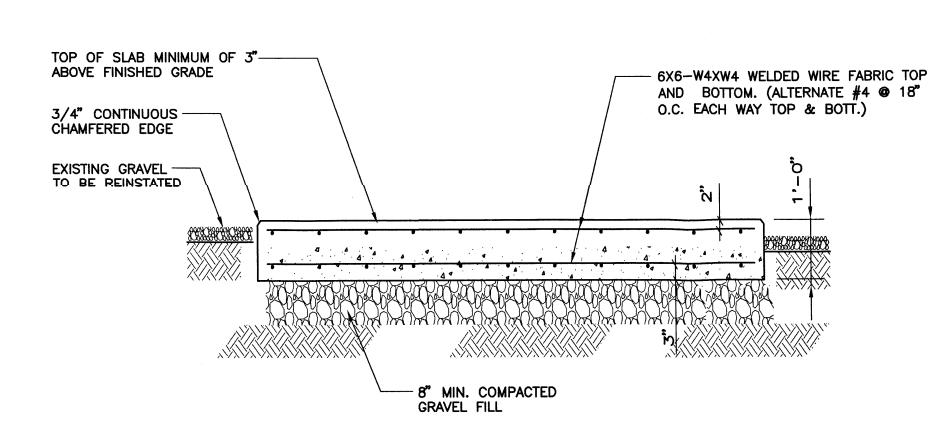
PROJECT NO:	05073
DRAWN BY:	DMD
CHECKED BY:	CFC
SCALE:	AS NOTED
DATE:	08/19/05

EQUIPMENT ROOM PLAN, SCHEDULE AND NOTES

C-2
DWG. 3 OF 14



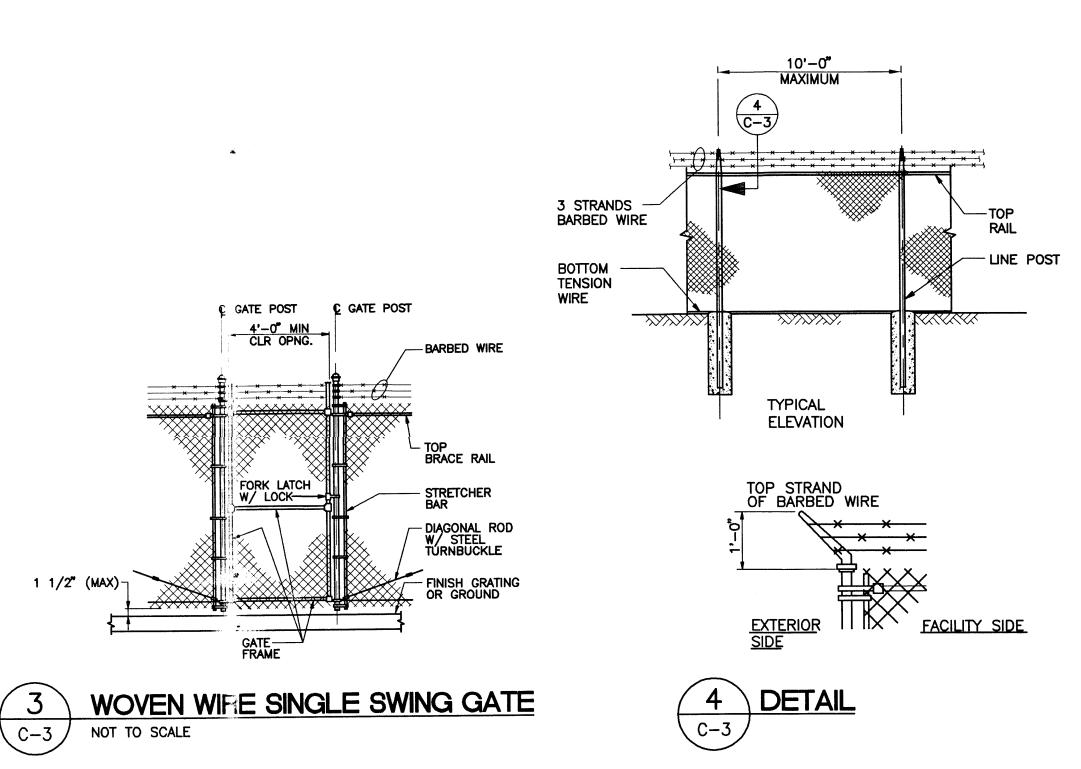
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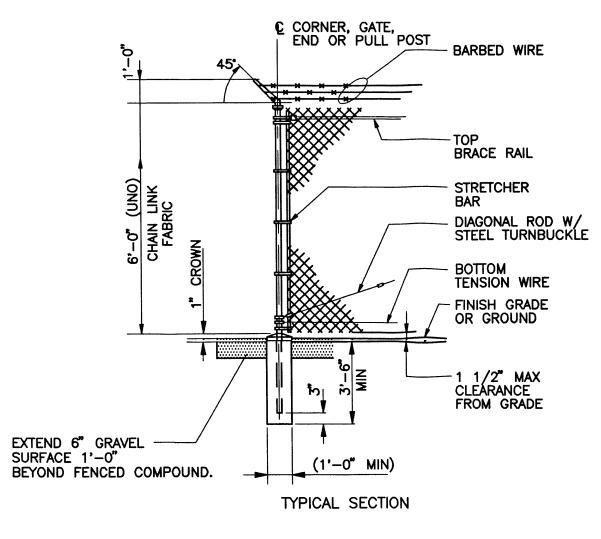


NOTES:

- 1. GRAVEL SHALL BE NATURAL OR CRUSHED GRAVEL WITH 100 PERCENT PASSING 1 INCH SIEVE.
- 2. CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 301 AND ACI 318
 AND THE SPECIFICATION FOR CAST IN PLACE CONCRETE. ALL CONCRETE
 SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS
- 3. EXISTING SUB BASE TO HAVE A MINIMUM BEARING CAPACITY OF 3,000

2 TYPICAL CAST IN PLACE EQUIPMENT PAD DETAIL
NOT TO SCALE





NOTE: SEE WOVEN WIRE FENCE NOTES THIS DWG. FOR ADDITIONAL INFO.

5 WOVEN WIRE FENCE DETAIL

NOT TO SCALE

GENERAL NOTES:

GENERA

- 1. IF ANY FIELD CONDITIONS EXIST WHICH PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY AFFECTED WORK.
- 2. DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST THE PRE MANUFACTURED EQUIPMENT BUILDING SHOP DRAWINGS.
- 3. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES.
- 4. REFER TO DRAWING T1 FOR ADDITIONAL NOTES AND REQUIREMENTS.

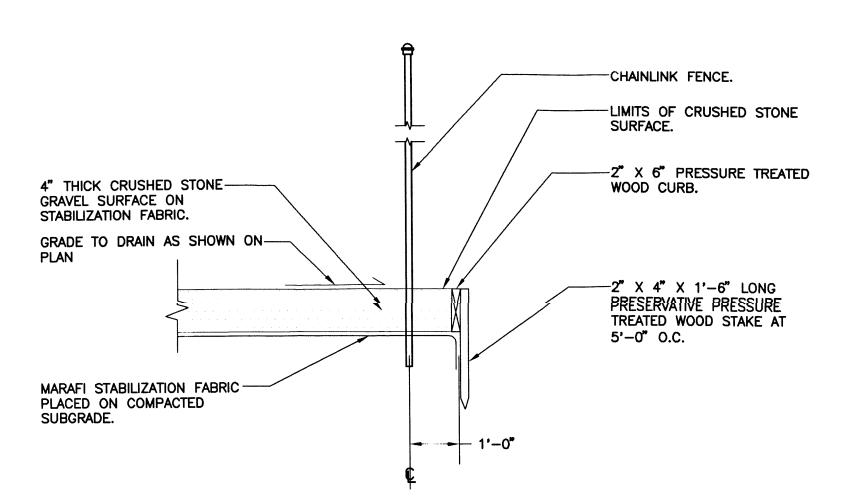
CONCRETE

- 1. ALL CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTES "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301).
- 2. ALL CONCRETE WORK IS DESIGNED BY ULTIMATE STRENGTH METHODS AND SHALL BE NORMAL WEIGHT WITH A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
- 3. ALL REINFORCING STEEL SHALL BE HIGH STRENGTH DEFORMED BARS CONFORMING
- TO ASTM A615 GRADE 60.

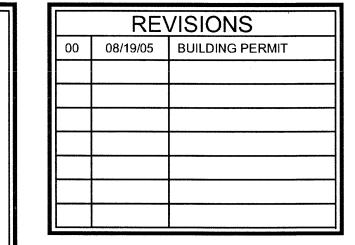
 4. ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS SHALL BE IN ACCORDANCE THE LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCEMENT IN CONCRETE STRUCTURES (ACI 315).
- 5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. WIRE MESH REINFORCEMENT MUST LAP ONE FULL MESH AT SIDE AND END LAPS, AND SHALL BE WIRED TOGETHER. MESH SHALL EXTEND WITHIN 2" OF SLAB EDGES.
- 6. LOCATE WELDED WIRE FABRIC ONE THIRD THE SLAB THICKNESS BELOW THE TOP SURFACE. MAINTAIN LOCATION OF STEEL DURING POUR. SUPPORT MESH ON CHAIRS, BOLSTERS, OR SMALL BRICK OR STONE, NOT ON WOOD OR OTHER ORGANIC MATERIALS
- 7. SHOP DRAWINGS AND CONCRETE ADMIXTURE PRODUCT DATA SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING CONSTRUCTION. DRAWINGS SHALL BE PROVIDED FOR SLABS—ON—GRADE AND CAST—IN—PLACE WALLS. ALL PERTINENT DIMENSIONS, REINFORCEMENT SIZES, SPACING, LOCATIONS AND QUANTITIES SHALL BE NOTED.

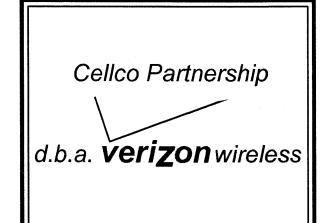
WOVEN WIRE FENCE NOTES

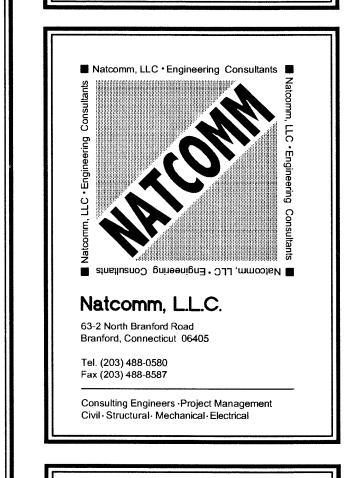
- 1. GATE POST, CORNER, TERMINAL OR PULL POST 2 1/2" Ø SCHEDULE 40 FOR GATE WIDTHS UP THRU 6 FEET OR 12 FEET FOR DOUBLE SWING GATE PER ASTM-F1083.
- 2. LINE POST: 2" Ø SCHEDULE 40 PIPE PER ASTM-F1083.
- 3. GATE FRAME: 1 1/2" Ø SCHEDULE 40 PIPE PER ASTM-F1083.
- 4. TOP RAIL & BRACE RAIL: 1 1/2" Ø SCHEDULE 40 PIPE PER ASTM-F1083.
- 5. FABRIC: 12 GA. CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392.
- . TIE WIRE: MINIMUM 11 GA. GALVANIZED STEEL AT POSTS AND RAILS A SINGLE WRAP OF FABRIC TIE AND AT TENSION WIRE BY HOG RINGS SPACED MAX 24" INTERVALS.
- 7. TENSION WIRE: 7 GA. GALVANIZED STEEL.
- 8. BARBED WIRE: DOUBLE STRAND 12-1/2" O.D. TWISTED WIRE TO MATCH W/FABRIC 14 GA., 4 PT. BARBS SPACED ON APPROXIMATELY 5" CENTERS.
- 9. GATE LATCH: DROP DOWN LOCKABLE FORK LATCH AND LOCK, KEYED ALIKE FOR ALL SITES IN A GIVEN MTA.
- 10. LOCAL ORDINANCE OF BARBED WIRE PERMIT REQUIREMENT SHALL BE COMPLIED WITH IF REQUIRED.
- 11. HEIGHT = 6' VERTICAL + 1' BARBED WIRE VERTICAL DIMENSION.



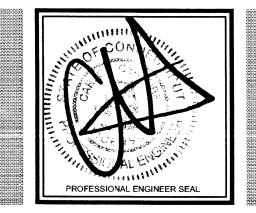










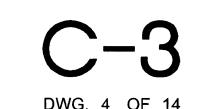


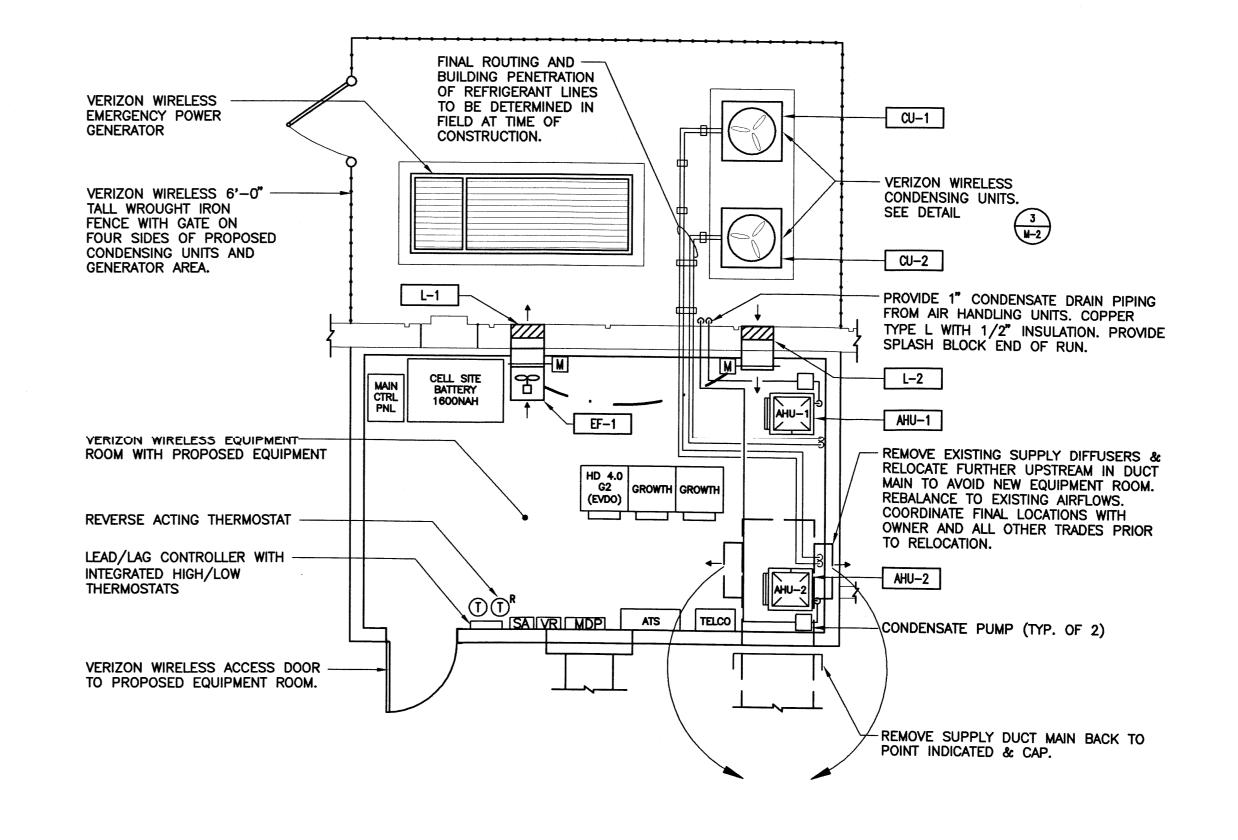
NEW FAIRFIELD

TITICUS MNT. RD. NEW FAIRFIELD, CONNECTICUT

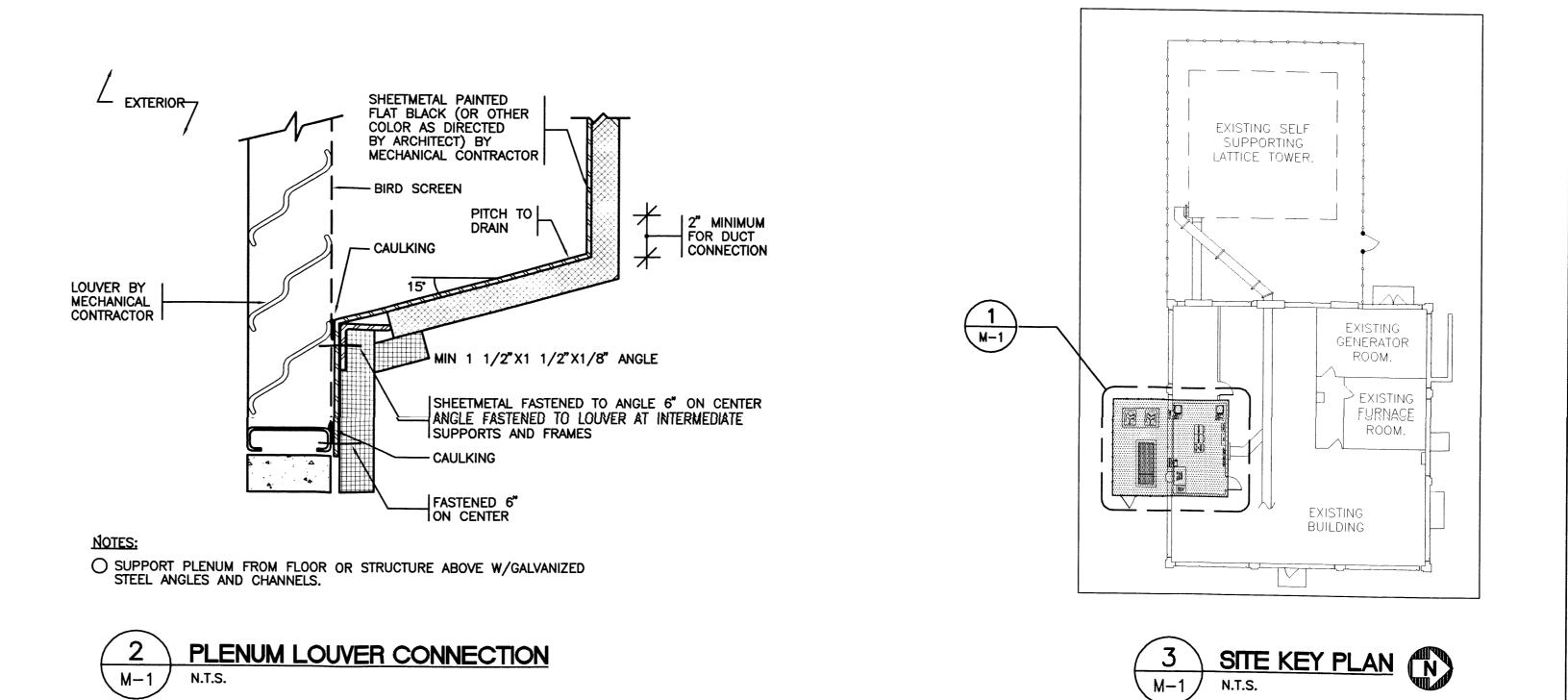
PROJECT NO:	05073
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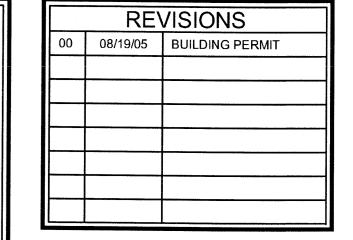
SITE DETAILS AND NOTES

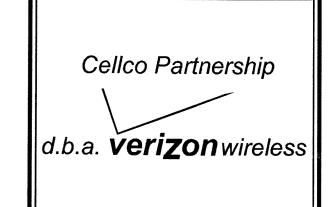


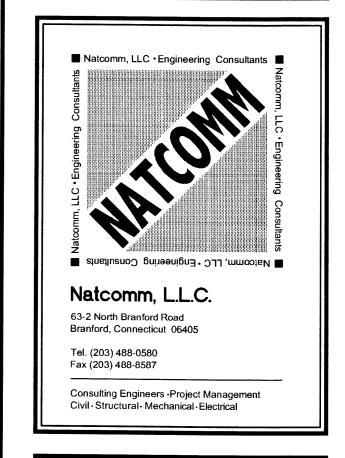


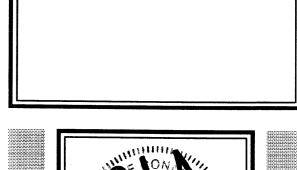














NEW FAIRFIELD

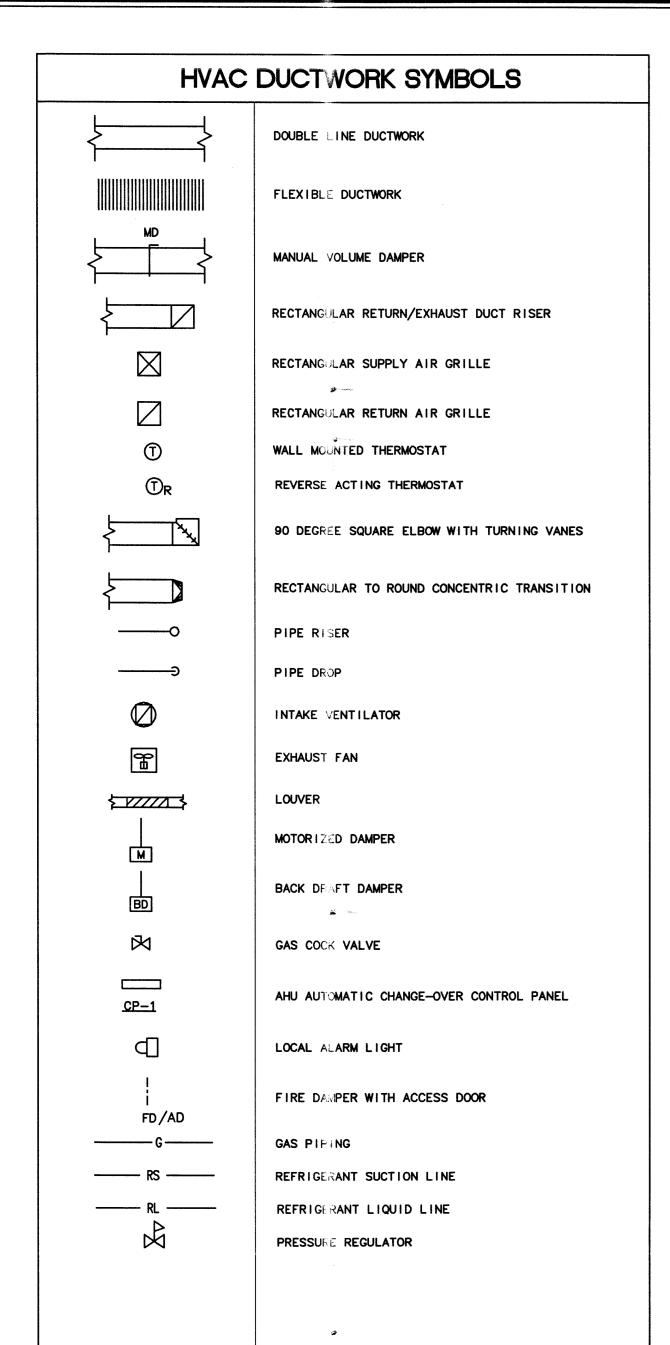
TITICUS MNT. RD. NEW FAIRFIELD, CONNECTICUT

PROJECT NO:	05073
DRAWN BY:	KHS
CHECKED BY:	FRC
SCALE:	AS NOTED
DATE:	08/19/05

MECHANICAL PLAN



market ... 21 market



- Aller -

ABBREVIATIONS										
AFF BTU CFM EAT ESP FPM HP kW LAT RLL RSL	ABOVE FINISHED FLOOR BRITISH THERMAL UNIT CUBIC FEET PER MINUTE ENTERING AIR TEMPERATURE EXHAUST FAN EXTERNAL STATIC PRESSURE FEET PER MINUTE HORSEPOWER KILOWATTS LEAVING AIR TEMPERATURE REFRIGERANT LIQUID LINE REFRIGERANT SUCTION LINE	AHU MBH T TYP V VEL W DB WB CP L-# FC	AIR HANDLING UNIT BTU PER HOUR (THOUSAND) THERMOSTAT TYPICAL VOLTS VELOCITY WATT DRY BULB WET BULB CONTROL PANEL LOUVER FLEX CONNECTION							

LOUVER SCHEDULE											
SYMBOL	MAKE	MODEL NUMBER	CFM	VELOCITY FT/MIN	FREE AREA SF	NOM. WIDTH IN	NOM. HEIGHT IN	PD IN. WG	REMARKS		
L-1,2 GREENHI		ESJ-401	167	285	.43	14	14	0.10	1,2,3		

FAN SCHEDULE										
SYMBOL	MAKE	MODEL NUMBER	CFM	CFM ESP IN/WG		DRIVE TYPE	REMARKS			
EF-1	GREENHECK	S1-8-440-D	167	0.25	1/25-120-1	BELT	ALL			
2. PROVID 3. POWER WITH E 4. PROVID 5. COORDI 6. SET TO 7. PROVID	DE SERVICE SWITCH DE WITH BACKDRAF FED FROM INVERT ELECTRICAL CONTR DE WALL MOUNT HO NATE SIZE WITH DE CYCLE 10 MIN/F DE TIMER NATE LOCATION W	T DAMPER. TOR CONNECTED TRACTOR DUSING, FAN GUA WALL OPENING R (ADJUSTABLE)	RD, GRAV			ATE				

SYMBOL	MAKE	MODEL NUMBER	TYPE	SYSTEM SERVED	TOTAL CAP. MBH	SENS. CAP. MBH	SUCTION TEMP	AMB AIR TEMP DEG F	ELECTRICAL DATA MCA-VOLT- PH	REMARKS	
CU-1	CARRIER	38CKC060301	AC	AHU-1	57	45	42.5	91.0	_	SEE NOTES	
CU-2 CARRIER 38CKC060301		38CKC060301	AC	AHU-2	57	45	42.5	91.0	_	SEE NOTES	
TYPES: AC=AIR COOLED REMARKS: 1. PROVIDE WITH UNIT MOUNTED FUSED DISCONNECT SWITCH 2. PROVIDE WITH LIQUID & SUCTION LINE, FILTER DRYERS, SIGHT GLASS AND ALL OTHER REFRIGERANT SPECIALTIES. 3. PROVIDE WITH LOW AMBIENT HEAD PRESSURE CONTROL, ANTI SHORT CYCLING TIMER. 4. PROVIDE WITH CRANKCASE HEATER. 5. PROVIDE WITH REFRIGERANT SOLENOID VALVE											

AIR COOLED CONDENSING UNIT SCHEDULE

	AIR HANDLING UNIT SCHEDULE															
SYMBOL	MAKE	MODEL NUMBER	TYPE	CFM	CFM O.A.	ESP IN. WG	MOTOR DATA AMP-VOLT-PH	COOLING COIL TYPE	COOLING CAPACITY TOTAL MBH	COOLING CAPACITY SENS. MBH	EAT DB/WB (DEG F)	LAT DB/WB (DEG F)	HEATING CAPACITY TOTAL MBH	TYPE	KW	REMARKS
AHU-1	CARRIER	FB4BNF060005AEAA	V	2000	0	_	3.6/208/1	DX	57	45	77/65	55/53	15.7	ELEC.	5	SEE NOTES
AHU-2	CARRIER	FB4BNF060005AEAA	٧	2000	0	_	3.6/208/1	DX	57	45	77/65	55/53	15.7	ELEC.	5	SEE NOTES
REMARKS 1. PROV	EMARKS: . PROVIDE WITH COMBINATION MOTOR STARTER/FUSED DISCONNECT SWITCH:															

6. PROVIDE WITH REFRIGERANT SOLENOID VALVE COIL.

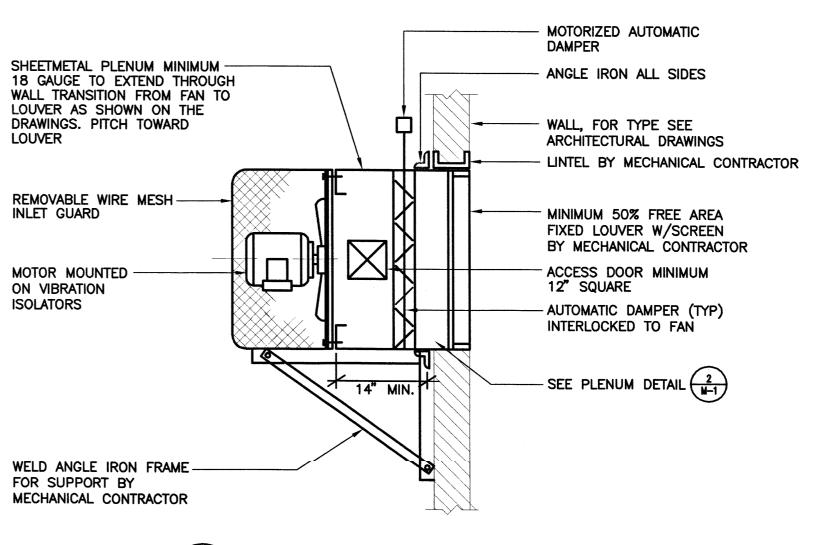
7. PROVIDE WITH LOW PRESSURE SWITCH.

3. PROVIDE WITH 1" 30% AIR FILTER. 4. PROVIDE LEAD/LAG CONTROLLER WITH INTEGRAL THERMOSTAT.
5. COORDINATE HUMIDISTAT MODEL # WITH VERIZON WIRELESS.

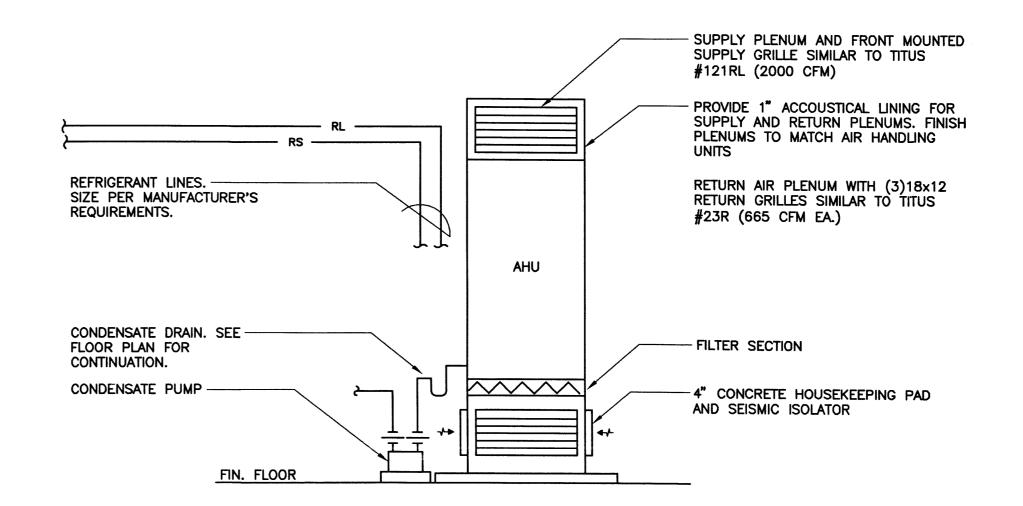
6. PROVIDE WITH FREEZESTAT. 7. PROVIDE FLOOR MOUNTED CONDENSATE PUMPS FOR EACH AC UNIT EQUIPPED WITH CHECK VALVE AND INTEGRAL SUMP PUMP LITTLE GIANT MODEL VCL-24,

RATED AT 120/60 HZ/1ø 15 GPH @ 10 FEET OF HEAD. 8. PROVIDE WITH SEISMIC ISOLATORS.

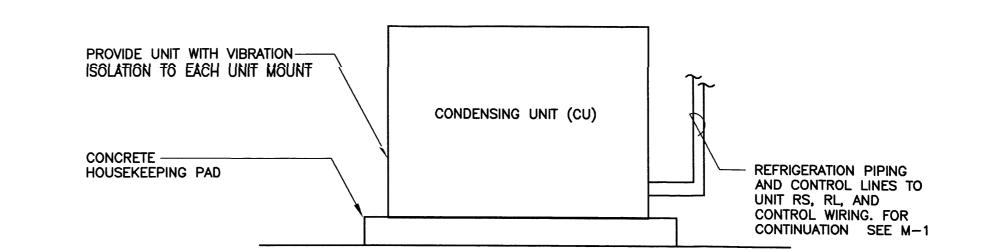
2. MAXIMUM COIL FACE VELOCITY SHALL BE 500 FPM



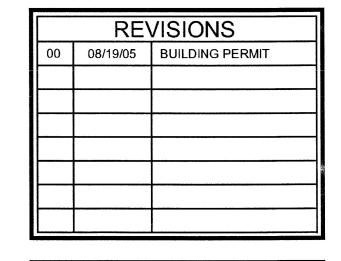


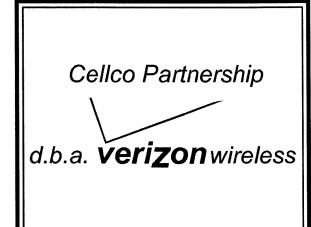


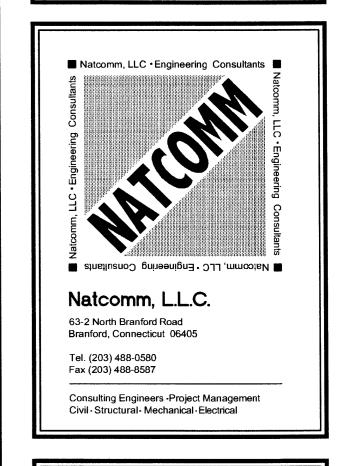


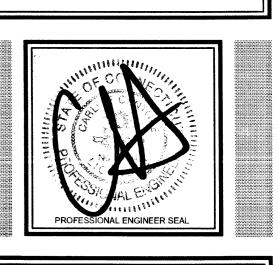














PROJECT NO:	05073
DRAWN BY:	KHS
CHECKED BY:	FRC
SCALE:	AS NOTED
DATE:	08/19/05

MECHANICAL DETAILS AND SCHEDULES

DWG. 6 OF 14

MECHANICAL SPECIFICATIONS

SCOPE

THE WORK TO BE DONE UNDER THIS DIVISION OF THE SPECIFICATIONS INCLUDE THE FURNISHING OF ALL EQUIPMENT, SUPPLIES, LABOR, SUPERVISION AND ALL MATERIALS NOT SPECIFICALLY MENTIONED, READY FOR USE, PLUMBING, SPRINKLER, HEATING, VENTILATION, AIR CONDITIONING EQUIPMENT AND ASSOCIATED ITEMS AND ALL TEMPERATURE CONTROL OR EMS COMPONENTS. IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO CALL FOR FRAMED WORK, TESTED AND READY FOR OPERATION.

IT IS THE INTENT THAT ALL MECHANICAL WORK AND MATERIALS NECESSARY TO COMPLETE THE ENTIRE PROJECT IN ACCORDANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS, WHERE SPECIFICALLY MENTIONED HERE OR NOT, SHALL BE FURNISHED. ALL WORK AND MATERIALS NECESSARY TO FULFILL THIS INTENT SHALL BE SUPPLIED UNDER THE MECHANICAL SPECIFICATIONS WITHOUT ADDITIONAL COST TO THE OWNER.

CODES, RULES, PERMITS AND FEES

THIS CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL STATE AND LOCAL TAXES, FEES AND OTHER COSTS IN CONNECTION WITH HIS WORK; FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL STATE AND LOCAL DEPARTMENTS HAVING JURISDICTION; OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR HIS WORK AND DELIVERY OF SAME TO THE OWNER BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK

THIS CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS (IN ADDITION TO CONTRACT DRAWINGS AND DOCUMENTS), IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS WHETHER OR NOT SHOWN ON THE DRAWINGS AND/OR SPECIFIED.

THIS CONTRACTOR SHALL PERFORM AND FILE ALL TESTS IN ACCORDANCE WITH CURRENT REGULATIONS OF THE STATE AND LOCAL AUTHORITIES. HE SHALL FURNISH AND INSTALL SIGNS REQUIRED BY THE STATE AND LOCAL AUTHORITIES.

ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE RULES AND RECOMMENDATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, WITH ALL REQUIREMENTS OF LOCAL UTILITIES COMPANIES, WITH THE RECOMMENDATIONS OF THE FIRE INSURANCE RATING ORGANIZATION HAVING JURISDICTION.

REGULATIONS

ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH STATE BASIC BUILDING CODE, B.O.C.A., STATE FIRE SAFETY CODE, A.D.A., U.L., NEMA, O.S.H.A., NATIONAL PLUMBING CODE AND NFPA, WITH ALL REQUIREMENTS OF ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION. REQUIREMENTS OF THE ABOVE SHALL TAKE PRECEDENCE OVER PLANS AND SPECIFICATIONS.

GUARANTEE AND SERVICE

THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE INSTALLATION. IN ADDITION, THE CONTRACTOR SHALL PROVIDE, FREE OF CHARGE, ONE YEAR'S MAINTENANCE GUARANTEE OF MAINTAINED SERVICE AND ADJUSTMENT OF ALL EQUIPMENT IN THIS CONTRACT.

DRAWINGS AND INTEN

DRAWINGS ARE INTENDED AS WORKING DRAWINGS FOR GENERAL LAYOUT OF THE VARIOUS ITEMS OF EQUIPMENT. HOWEVER, LAYOUT OF EQUIPMENT, ACCESSORIES, SPECIALTIES, AND PIPING SYSTEMS ARE DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED, AND DO NOT NECESSARILY INDICATE EVERY REQUIRED PIPE, VALUE, FITTINGS, TRAP, ELBOW, TRANSITION, OFFSETS, JUNCTION OR PULLBOX, OR SIMILAR ITEMS REQUIRED FOR A COMPLETE INSTALLATION.

WORK NOT INCLUDED

ALL ELECTRICAL WORK, CUTTING AND PATCHING, PIERS, LINTELS, ALL CONCRETE WORK AND ALL PAINTING.

THIS CONTRACTOR SHALL FURNISH THE GENERAL CONTRACTOR WITH THE SIZES AND LOCATIONS OF CHASES AND OPENINGS WHICH OCCUR IN WALLS, PARTITIONS, FLOORS, ETC., REQUIRED FOR THE INSTALLATION OF THE WORK CALLED FOR UNDER THIS CONTRACT, WILL BE DONE BY THE GENERAL CONTRACTOR, EXCEPT CUTTING REQUIRED FOR THE INSTALLATION OF HANGERS.

<u>MEASUREMENTS</u>

ALL MEASUREMENTS TAKEN AT THE BUILDING SHALL TAKE PRECEDENCE OVER SCALE DIMENSIONS. EVERY PART OF THE PLANS SHALL BE FITTED TO THE ACTUAL CONDITIONS AT THE BUILDING. IF IN CONFLICT WITH SCALE DIMENSIONS, CONTACT ARCHITECT FOR CLARIFICATION.

INTERRUPTION OF EXISTING SERVICES

PRIOR TO PERFORMING WORK REQUIRING INTERRUPTION OF EXISTING SERVICES, THE CONTRACTOR SHALL SECURE FROM THE OWNER, APPROVAL OF THE PROPOSED OPERATION. (72 HOURS IN ADVANCE WHENEVER POSSIBLE).

WORK SHALL BE ARRANGED FOR CONTINUOUS PERFORMANCE WHENEVER POSSIBLE. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, INCLUDING OVERTIME, IF REQUIRED, TO ASSURE THAT EXISTING OPERATING SERVICES WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE NECESSARY CONNECTIONS.

PROTECTION OF FIXTURES, MATERIALS AND EQUIPMENT

CLOSE PIPE OPENINGS WHAT JAPS OR PLUGS DURING INSTALLATION.
TIGHTLY COVER AND PROTECT FIXTURES AND EQUIPMENT AGAINST DIRT,
WATER AND CHEMICAL OR MECHANICAL INJURY. AT COMPLETION OF ALL
WORK, FIXTURES, EXPOSED MATERIALS AND EQUIPMENT SHALL BE
THOROUGHLY CLEANED.

DEMOLITION

CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, ETC., REQUIRED TO COMPLETE ALL DEMOLITION WORK NECESSARY FOR THE FULL COMPLETION OF THIS CONTRACT. PROTECT ALL PARTS AND EQUIPMENT THAT ARE TO REMAIN. ASSUME FULL RESPONSIBILITY FOR DAMAGE.

ALL ITEMS BEING REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS OTHERWISE INDICATED BY HIM. EQUIPMENT AND DEVICES THE OWNER DOES NOT WISH TO RETAIN SHALL BECOME THE PROPERTY OF THIS CONTRACTOR AND REMOVED FROM THE SITE. ALL MATERIAL CHOSEN TO BE RETAINED BY THE OWNER SHALL BE DELIVERED BY THE CONTRACTOR TO SUCH POINT AS DESIGNATED BY THE OWNER.

EXAMINATION OF PREMISES - SPECIAL NOTE

NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT SITE, OR FOR ANY ALLEGED MISUNDERSTANDING OF MATERIALS TO BE FURNISHED, OR WORK TO BE DONE; IT BEING THAT TENDER OF PROPOSAL INDICATED WITH IT AGREEMENT TO ITEMS AND CONDITIONS REFERRED TO HEREIN OR INDICATED ON AFOREMENTIONED DRAWINGS.

SCAFFOLDING, RIGGING AND HOISTING

UNLESS OTHERWISE SPECIFIED, CONTRACTOR SHALL FURNISH ALL SCAFFOLDING, RIGGING, HOISTING AND SERVICES NECESSARY FOR ERECTION AND DELIVERY INFO THE PREMISES OF ANY EQUIPMENT AND APPARATUS FURNISHED. KEMOVE SAME FROM THE PREMISES WHEN NO LONGER REQUIRED.

HOUSEKEEPING

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING STOCK OF MATERIALS AND EQUIPMENT STORED ON PREMISES IN A NEAT AND ORDERLY MANNER AND, AT ALL TIMES, KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR RUBBISH CAUSED BY HIS EMPLOYEES AT WORK. HE SHALL REMOVE HIS RUBBISH AND SURPLUS MATERIALS FROM THE JOB SITE AND SHALL LEAVE THE PREMISES AND HIS WORK IN A CLEAN AND PERFECT CONDITION.

QUIET OPERATION

ALL WORK SHALL OPERATE UNDER ALL CONDITIONS OF LOAD WITHOUT ANY SOUND OR VIBRATION WHICH IS OBJECTIONABLE IN THE OPINION OF THE CONSTRUCTION MANAGER. IN CASE OF MOVING MACHINERY, SOUND OR VIBRATION NOTICEABLE OUTSIDE OF ROOM IN WHICH IT IS INSTALLED, OR ANNOYING INSIDE ITS OWN ROOM, WILL BE CONSIDERED OBJECTIONABLE BY THE CONSTRUCTION MANAGER AND SHALL BE REMEDIED IN APPROVED MANNER BY CONTRACTOR AT HIS EXPENSE.

SHOP DRAWINGS

PRIOR TO DELIVERY TO JOB SITE, BUT SUFFICIENTLY IN ADVANCE OF REQUIREMENTS NECESSARY TO ALLOW CONSTRUCTION MANAGER AMPLE TIME FOR REVIEW, CONTRACTOR SHALL SUBMIT FOR APPROVAL, SEVEN (7) COPIES EACH OF SHOP DRAWINGS OF ALL EQUIPMENT. ALSO, SHEET METAL FABRICATION DRAWINGS DRAWN TO A SCALE OF 1/4" TO THE FOOT OR LARGER.

WORK IN ADJACENT OCCUPIED TENANT SPACES SHALL NOT BE SCHEDULED DURING NORMAL WORK HOURS.

EQUIPMENT DEVIATION

THE PLANS AND/OR SPECIFICATIONS INDICATE THE NAME, MODEL NUMBER OR TYPE OF EQUIPMENT OR MATERIALS SPECIFIED. SHOULD THE BIDDER DESIRE TO USE EQUIPMENT OR MATERIALS OR A MAKE OTHER THAN THOSE SPECIFIED OR SHOWN, HE SHALL ATTACH A RIDER TO THE BID FORM LISTING THE DEDUCTIONS AND/OR ADDITIONS TO HIS BASE BID, TOGETHER WITH THE MANUFACTURER'S NAME AND MODEL NUMBERS OF THE EQUIPMENT OR MATERIALS HE PROPOSED TO FURNISH AS "SUBSTITUTES". IF NO SUBSTITUTE INFORMATION IS FURNISHED, IT WILL BE EXPRESSLY UNDERSTOOD THAT ALL EQUIPMENT AND MATERIALS NAMED WILL BE FURNISHED IN FULL ACCORDANCE WITH THE PLANS AND/OR SPECIFICATIONS.

CORE DRILLING/WATERPROOFING

ALL CORE DRILLING REQUIRED SHALL BE DONE BY GENERAL CONTRACTOR.
ALL ROOF PENETRATIONS, FLASHING AND WATER PROOFING SHALL BE DONE
BY GENERAL CONTRACTOR, WORK SHALL BE PERFORMED BY AAN
APPLICATOR CERTIFIED BY THE EXISTING ROOF SYSTEM MANUFACTURER.

RECORD DRAWINGS

CONTRACTOR SHALL KEEP ACCURATE RECORD OF ALL DEVIATIONS IN WORK AS ACTUALLY INSTALLED FROM WORK INDICATED PAYING PARTICULAR ATTENTION TO DIMENSIONING OUTSIDE UNDERGROUND UTILITY LINES, THEIR OFFSETS AND VALUES.

OWNER'S INSTRUCTIONS AND SYSTEM OPERATION

AT THE TIME OF THE JOB'S ACCEPTANCE BY OWNER, CONTRACTOR SHALL FURNISH ONE COMPLETE SET OF APPROVED CERTIFIED DRAWINGS TO THE OWNER. IN ADDITION, CONTRACTOR SHALL FURNISH MAINTENANCE AND OPERATING INSTRUCTIONS FOR ALL EQUIPMENT. THESE INSTRUCTIONS SHALL BE WRITTEN IN LAYMAN'S LANGUAGE AND SHALL BE INSERTED IN VINYL—COVERED THREE—RING LOOSE LEAF BINDER. THIS INFORMATION IN BINDER SHALL BE FIRST SENT TO AND APPROVED BY THE ARCHITECT/CONSTRUCTION MANAGER BEFORE TURNING OVER TO OWNER.

SEISMIC RESTRAINTS

SEISMIC RESTRAINTS DESIGNED AND CONSTRUCTED FOR LATERAL FORCES IN ANY DIRECTION SHALL BE PROVIDED FOR ALL MECHANICAL EQUIPMENT AND PIPING IN ACCORDANCE WITH THE STATE BUILDING CODE. SUBMIT SEISMIC RESTRAINT DESIGN AND CALCULATIONS STAMPED BY A CONNECTICUT LICENSED STRUCTURAL ENGINEER.

DUCT INSTALLATION

SIZES AND APPROXIMATE LOCATION OF ALL DUCTS ARE SHOWN ON THE DRAWINGS. CHECK CAREFULLY WITH THE ARCHITECTURAL DRAWINGS AND DRAWINGS SHOWING WORK OF OTHER TRADES TO MAKE SURE THAT THERE WILL BE NO CONFLICT BETWEEN THESE TRADES AND THE DUCTS. DUCTS SHALL BE OFFSET AS REQUIRED TO CLEAR STRUCTURAL MEMBERS, AND, IF NECESSARY, TO ALTER DIMENSIONS OF THE DUCT. THIS MAY BE DONE PROVIDED THE CROSS—SECTIONAL AREA IS IN NO CASE REDUCED.

DUCT INSULATION

WHERE INDICATED ON THE DRAWINGS, DUCTWORK SHALL BE LINED WITH MANVILLE PERMACOTE LINACOUSTIC. THICKNESS, UNLESS SPECIFIED OTHERWISE, SHALL BE 1". LINER SHALL BE APPLIED TO DUCT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SMACNA GUIDELINES, LATEST EDITION. WHERE SOUND INSULATION IS INDICATED, DUCTWORK SIZES DENOTED ARE THE INSIDE DIMENSIONS AFTER THE INSULATION HAS BEEN INSTALLED. COVER ALL UNLINED OUTSIDE AIR DUCTWORK WITH 1-1/2" FIBERGLASS DUCT WRAP EQUAL TO MANVILLE R-SERIES MICROLITE WITH F.R.G. VAPOR BARRIER.

SHEET METAL DUCTWORK

ALL DUCTWORK SHALL BE CONSTRUCTED OF #1 QUALITY FIRST SHEETS OF GALVANIZED FIRST SHEETS OF GALVANIZED STEEL FREE OF CRACKS OR BLEMISHES. WHEN PITTSBURGING OR SNAP LOCKING A JOINT, THE GALVANIZING SHALL NOT BE CHIPPED OFF.

DUCTWORK AND ACCESSORIES

ALL DUCTWORK SHALL BE METAL AND ALL ASPECTS OF METAL DUCTWORK CONSTRUCTION, INCLUDING ALL FITTINGS AND COMPONENTS, SHALL COMPLY WITH THE LATEST EDITION OF SMACNA STANDARDS FOR 1" PRESSURE CLASS. ALL DUCTWORK DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS. ALL SQUARE DUCT ELBOWS ARE TO BE EQUIPPED WITH TURNING VANES. ALL RADIUSED DUCT ELBOWS SHALL HAVE MINIMUM CENTER LINE RADIUS EQUAL TO 1-1/2 TIMES THE DUCT WIDTH WHERE DUCT WIDTH IS DIMENSION IN DIRECTION OF RADIUS.

FLEXIBLE DUCT CONNECTORS APPROXIMATELY 6 INCHES IN LENGTH SHALL BE PROVIDED WHERE SHEET METAL CONNECTIONS ARE MADE TO AIR HANDLING EQUIPMENT.

MANUAL BALANCING DAMPERS SHALL BE PROVIDED FOR EACH BRANCH OF THE MAIN TRUNK DUCT AND AS INDICATED ON THE DRAWINGS. DAMPER CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF SMACNA STANDARDS.

AIR DEFLECTORS SHALL BE PROVIDED AT ALL DUCT MOUNTED SUPPLY OUTLETS, AT ALL TAKEOFF OR EXTENSION COLLARS TO SUPPLY OUTLETS, AT ALL DUCT BRANCH TAKEOFF CONNECTIONS, AND AT ALL 90 DEGREE ELBOWS, AS WELL AS AT ALL LOCATIONS SHOWN IN THE LATEST EDITION OF SMACNA STANDARDS. AS AN OPTION TO AIR DEFLECTORS, CONTRACTOR MAY PROVIDE FABRICATED TEES WITH 45 DEGREE ENTREES AT ALL RECTANGULAR BRANCHES AND CONICAL TEES AT ALL ROUND DUCT BRANCHES.

NO DIFFUSER, SWITCH OR THERMOSTAT, OR DEVICE SHALL BE PLACED WITHOUT THE FINAL APPROVAL OF THE OWNER AND THE ARCHITECT.

<u>PIPING</u>

CONDENSATE PIPING SHALL BE DRAWN TEMPER COPPER TUBING, ASTM B88

REFRIGERANT PIPING SHALL BE HARD DRAWN ANNEALED ASTM B280, TYPE ACR. FITTINGS SHALL BE ASTM B16.22 WROUGHT COPPER.

PIPING SUPPORT

PIPING SUPPORT SHALL CONFORM TO ASME B31.5, ASTM F708.

PIPING INSULATION

PROVIDE FLEXIBLE ELASTOMERIC CELLULAR PIPING INSULATION ON REFRIGERANT AND CONDENSATE DRAIN PIPING. PROVIDE PVC JACKET ON EXPOSED PIPING AND FITTINGS.

TEST AND BALANCE

COMPLETELY TEST AND BALANCE ALL SUPPLY AND RETURN AIR SYSTEMS AND PROVE THE CAPACITIES OF THE SYSTEM AND THE SYSTEM COMPONENTS. SUBMIT RESULTS TO CONSTRUCTION MANAGER FOR APPROVAL.

TESTING AND BALANCING SHALL BE PERFORMED BY A CERTIFIED MEMBER OF EITHER AABC OR NEBB IN ACCORDANCE WITH THE LATEST STANDARDS OF ITS RESPECTIVE ORGANIZATIONS.

THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, DURING THE PROGRESS OF THE WORK OR LIPON ITS COMPLETION AS ORDERED, MAKE SUCH TESTS OF HIS WORK AS ARE HEREIN SPECIFIED OR AS ARE REQUIRED BY AND IN THE PRESENCE OF THE BUILDING INSPECTOR. IF SO DIRECTED, TESTS SHALL BE MADE OF SECTIONS FOR THE WORK SO AS NOT TO DELAY THE WORK OR OTHER TRADES.

THE CONTRACTOR SHALL PROVIDE ALL APPARATUS, TEMPORARY WORK OR ANY OTHER REQUIREMENTS NECESSARY FOR SUCH TESTS. HE SHALL TAKE ALL DUE PRECAUTIONS TO PREVENT DAMAGE TO THE BUILDING OR ITS CONTENTS THAT MAY BE INCURRED BY SUCH TESTS AS HE WILL BE REQUIRED TO REPAIR AND MAKE GOOD, AT HIS OWN EXPENSE, ANY DAMAGE CAUSED.

ANY DEFECTS OR DEFICIENCIES DISCOVERED AS A RESULT OF TESTS SHALL BE IMMEDIATELY REPAIRED AND TESTS SHALL BE REPEATED UNTIL THE

TEST REQUIREMENTS ARE FULLY COMPLIED WITH.

NO CAULKING OF PIPE JOINTS TO REMEDY LEAKS WILL BE PERMITTED.

ALL WATER PIPING SHALL BE TESTED TO A HYDROSTATIC PRESSURE OF 150 POUNDS PER SQUARE INCH. PRESSURE SHALL BE MAINTAINED WITHOUT PUMPING FOR TWO HOURS.

TESTS SHALL BE PERFORMED IN THE PRESENCE OF AND TO THE SATISFACTION OF THE ARCHITECT, AND LOCAL DEPARTMENT REPRESENTATIVES.

THE CONTRACTOR SHALL NOTIFY THE ARCHITECT TWO DAYS IN ADVANCE OF RUNNING TESTS TO ALLOW THEIR REPRESENTATIVE TO BE PRESENT TO WITNESS TESTS. NOTIFICATION TO BE IN WRITING.

HANGER AND SUPPORTING

HANGING AND SUPPORTING — PIPING SHALL NOT BE SUPPORTED BY OTHER PIPING, BUT SHALL BE SUPPORTED WITH COPPER PIPE HANGERS SUITABLE FOR THE SIZE OF PIPE AND PROPER STRENGTH AND QUALITY AT PROPER INTERVALS SO THAT PIPING CANNOT BE MOVED ACCIDENTALLY FROM THE INSTALLED POSITION.

SEQUENCE OF OPERATION

PROVIDE ALL CONTROLS, LOW VOLTAGE CONTROL WIRING AND ACCESSORIES NECESSARY TO ACCOMPLISH THE SEQUENCE OF OPERATION AS INDICATED BELOW. POWER WIRING SHALL BE PROVIDED IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS. COORDINATE WITH ELECTRICAL CONTRACTOR.

AIR HANDLING UNITS

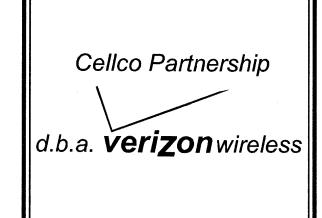
- 1. AHU-1, AHU-2 AIR HANDLING UNITS SERVING THE EQUIPMENT ROOM SHALL BE CONSTANT VOLUME UNITS.
- A. THERMOSTATS SHALL LOCALLY CONTROL THE AHU ON A CALL FOR HEATING AND COOLING. THE SUPPLY FAN SHALL RUN CONTINUOUSLY.
- B. THERMOSTATS SHALL INCLUDE THE FOLLOWING FUNCTIONS. HEATING/COOLING MODE SELECTION SWITCH AND AN ON/OFF/AUTO FAN CONTROL SWITCH, AND AUTO-CHANGE OVER.
- C. AHU-1 OR AHU-2 SHALL OPERATE AS THE LEAD AHU TO MAINTAIN DESIRED SPACE TEMPERATURE (ADJUSTABLE). THE HIGH TEMPERATURE CHANGEOVER THERMOSTAT (HTCT) SHALL BE SET +10 DEGREES ABOVE AHU TEMPERATURE SETPOINTS (ADJUSTABLE). IF THE SPACE EXCEEDS THIS 10 DEGREE DIFFERENTIAL, THE HTCT SHALL SIGNAL THE AHU ALTERNATING CHANGEOVER CONTROL PANEL TO SHUT DOWN THE LEAD AHU AND START UP THE BACKUP AHU. THE AHU ALTERNATING CHANGEOVER CONTROL PANEL SHALL ALTERNATE THE LEAD AND BACKUP AHU'S EVERY 1,000 HOURS OF OPERATION. UPON AN AHU TEMPERATURE OR OPERATION FAILURE, A LOCAL ALARM SHALL BE GENERATED. BOTH AHU'S SHALL BE EQUIPPED WITH A PROOF OF FAN SWITCH. IF AN AHU IS ACTIVATED AND THE FAN SWITCH IS NOT MADE, THE AHU'S SHALL SWITCH OVER AND A LOCAL ALARM SHALL BE GENERATED.
- D. CONDENSATE PUMPS EACH CONDENSATE PUMP SHALL BE EQUIPPED WITH A DRIP PAN WITH FLOAT SENSOR. IF A CONDENSATE PUMP FAILS AND THE DRIP PAN FILLS WITH WATER, THE ASSOCIATED AHU SHALL BE DEACTIVATED. IF THE AHU IS DEACTIVATED, THE BACKUP AHU SHALL SWITCH OVER TO THE LEAD AHU AND A LOCAL ALARM SHALL BE GENERATED.
- E. AIR INTAKE DAMPER AIR INTAKE DAMPER SHALL OPERATE WITH ACTIVE EXHAUST FAN AND SHALL CLOSE WHEN EXHAUST FAN IS DEACTIVATED.

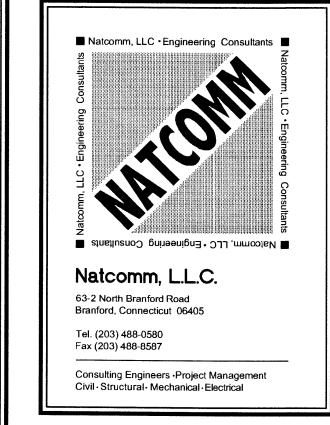
2. EF-1 - EXHAUST FAN SHALL:

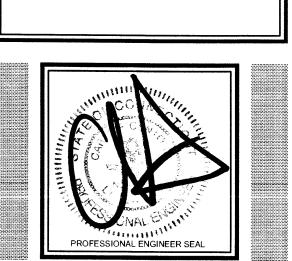
CYCLE INTERMITTENTLY (10 MIN/HR) BY MEANS OF MARK TIME SWITCH AND REVERSE ACTING T-STAT. INTERLOCK INTAKE DAMPER AND EXHAUST FAN MOTOR

REVERSE ACTING THERMOSTAT SHALL ENERGIZE EXHAUST FAN AT A PRESET TEMPERATURE OF 78°F.

	REVISIONS				
00	08/19/05 BUILDING PERMIT				







NEW FAIRFIELD

TITICUS MNT. RD. NEW FAIRFIELD, CONNECTICUT

PROJECT NO:	05073
ĐRÁWN BY:	KHS
CHECKED BY:	FRC
SCALE:	AS NOTED
DATE:	08/19/05

MECHANICAL SPECIFICATIONS



CELLULAR GROUNDING NOTES

PROVIDE A CELLULAR GROUNDING SYSTEM WITH MAXIMUM ALTERNATING CURRENT RESISTANCE OF 5 OHMS BETWEEN ANY POINT ON THE GROUNDING SYSTEM AND REFERENCE GROUND. PROVIDE EXTERIOR GROUNDING SCHEME WITH VERIZON WIRELESS ENGINEER'S APPROVAL AS REQUIRED TO ACHIEVE DESIRED MAXIMUM AC RESISTANCE TO GROUND. CONNECT TO INTERIOR CELLULAR GROUNDING SYSTEM AS REQUIRED. PERFORM TESTING PROCEDURE AS DESCRIBED IN SPECS.

CONDUCTOR USED FOR CELLULAR GROUNDING SYSTEM

EGR - #2 AWG ANNEALED SOLID TINNED BARE COPPER

IGR — #2 AWG ANNEALED SOLID HINNED BARE COPPER
IGR — #2 AWG ANNEALED STRANDED (7 STRAND) 'THW' GREEN COLORED INSULATION
INTER—BUS EXTENSION (FROM IGR TO EGR) — SEE DETAILS ON DRAWING E—5.
EXTERNAL BOND CONNECTIONS TO EGR — #2 ANNEALED SOLID TINNED BARE COPPER
INTERIOR BOND CONNECTIONS TO EGR — #6 ANNEALED STRANDED (7 STRAND) 'THW' GREEN COLORED INSULATION
ANTENNA BOND CONNECTION TO EGR — #2 SOLID COPPER

MINIMUM BENDING RADIUS

IGR #2 : 1'-0" NOMINAL AND 8" MINIMUM

EGR #2 : 2'-0" NOMINAL AND 8" MINIMUM

CELLULAR GROUNDING CONDUCTOR SHALL BE AS STRAIGHT AS POSSIBLE WITH MINIMUM 6" BENDING RADIUS.

FASTENER FOR CELLULAR GROUNDING CONDUCTOR

USE NON-METALLIC FASTENER AND STANDOFF 'CLIC' (AVAIL, FROM NEFCO 203-289-0285) TO SURFACE SUPPORT CONDUCTOR 3" AWAY FROM SURFACES.

SPACING OF FASTENERS: 2'-0" O.C. OUTSIDE BUILDING 3'-0" O.C. INSIDE BUILDING

CONNECTIONS ABOVE GRADE (MECHANICAL)

COMPRESSION LUG CONNECTOR - 15 TON COMPRESSION, 2 HOLE, LONG BARREL, ELECTRO TINNED PLATED, HIGH CONDUCTIVITY, COPPER 600V RATED. USE 1/4" Ø BOLT, 3/4" SPACING LUGS TO BOND OBJECTS FROM THE IGR. (CONNECTOR SHALL BE BURNDY HYLUG SERIES OR EQUAL.)

EXOTHERMIC WELD LUG CONNECTOR — 2 HOLE, OFFSET, ELECTRO TINNED PLATED, HIGH CONDUCTIVITY, COPPER 600V. USE 1/2" BOLT, 1-3/4" SPACING LUGS. CONNECTOR SHALL BE CADWELD CONNECTION STYLE (CABLE TO SURFACE) TYPE LA, LUG SIZE 1/8 x 1. EXOTHERMIC WELD TO LUG AS REQUIRED.

C-TAP COMPRESSION CONNECTOR - HIGH CONDUCTIVITY COPPER FOR MAIN TO BRANCH LINE TAPPING. (CONNECTOR SHALL BE BURNDY HYTAP SERIES OR EQUAL.)

USE MATCHING MANUFACTURER TOOL AND DIE FOR COMPRESSION CONNECTION.

APPLY ANTI-OXIDANT CONDUCTIVITY ENHANCER COMPOUND ON SURFACES THAT ARE COMPRESSED.

SURFACES INTENDED TO BE CONNECTED WITH MECHANICAL CONNECTORS SHALL BE BARE METAL TO BARE METAL. PRIME AND PAINT OVER BONDED AREA TO PREVENT CORROSION.

WIRING SCHEMATIC FOR ALARM SENSORS

1 2		DOOR ALARMS N.C. WHEN DOORS ARE CLOSED
3		SMOKE ALARM N.C. WHEN SMOKE IS DETECTED
5 6	For T	HIGH TEMP ALARM N.C. WHEN TEMP < 80°
8	Fo=	LOW TEMP ALARM N.C. WHEN TEMP > 50°
10		COMMERCIAL POWER FAIL N.C. WHEN COMMERCIAL POWER PRESENT
11		HIGH HUMIDITY ALARM N.C. WHEN R.H. < 75%
13 14		SURGE ARRESTER ALARM N.C. WHEN SURGE ARRESTER IS OPERATIONAL
15 16		LOAD SIDE VOLTAGE FAILURE ALARM N.C. WHEN COMMERCIAL VOLTAGE > 130VAC
17 18	Fo=	RECTIFIER FAIL N.C. WHEN RECTIFIERS OPERATIONAL
19 20		GENERATOR N.C. WHEN GENERATOR OFF

- 1. TERMINAL STRIP SHALL BE SQUARE D #GP3 WITH END BARRIERS AND MOUNTING RAIL. TERMINAL STRIP SHALL CONTAIN 20 TERMINAL BLOCKS.
- 2. CONDUCTOR SIZE FOR ALARM WIRING SHALL BE #14 THWN MINIMUM IN 3/4"C.
- MOUNT TERMINAL STRIP INTO A 12"x12"x6" NEMA 1 HINGED DOOR ENCLOSURE
 MCKINSTRY #30-12126LP WITH BACK PANEL, 'T' HANDLE, (6) 1/2" 3/4" KO'S 4 SIDES,
 (2) 3/4" GROMMETS.
- 4. CONTRACTOR TO PROVIDE ALL CONDUIT, WIRING, ALARM SENSORS, AND TERMINTATIONS.
- 5. COORDINATE WITH AND ASSIST WIRELESS CARRIER ENGINEER WITH TESTING OF ALARM CIRCUITS AT COMPLETION OF PROJECT.
- 6. ALARM CONTACTS SHALL CLOSE ON ALARM.

	MDP PANELBOARD										
PA	PANEL NAME/LOCATION: MDP VERIZON WIRELESS EQUIPMENT ROOM MOUNTING: SURFACE MAIN: 200A MCCB VOLTAGE/PHASE: 208Y/120V,3ø,4 WIRE PANEL RATING: 225A MOUNTING: SURFACE MANUFACTURER: CUTLER—HAMMER PANEL TYPE: PRL—3a/ BOLT—ON AIC RATING: 22K MIN.										
CKT NO.	BRKR AMPS	Р	LOAD DESCRIPTION	KVA	BRANCH CIRCUIT	BRANCH CIRCUIT	KVA	LOAD DESCRIPTION	Р	BRKR AMPS	CKT NO.
1	60	3	SURGE ARRESTER	0	4#4,1#10G,1 1/4"C	2#8,1#10G,1"C	3.2	AC-1	2	45	2
3		_			_	_	3.2		_		4
5	_	_	_	_	_	2#12,1#12G,3/4°C	1.5	ELEC. HEATER	1	20	6
7	20	1	INTERIOR LIGHTS	0.7	2#12,1#12G,3/4"C	2#8,1#10G,1"C	3.2	AC-2	2	45	8
9	20	1	BATTERY CHARGER	1.0	2#12,1#12G,3/4"C	-	3.2	_		_	10
11	20	1	SMOKE DETECTOR	0.1	2#12,1#12G,3/4"C	2#12,1#12G,3/4"C	8.0	EXHAUST FAN	1	20	12
13	30	2	RECTIFIER #1	_	2#10,1#10G,1"C	2#10,1#10G,1"C	_	RECTIFIER #7	2	30	14
15	_		_	_		_	_	_	_		16
17	30	2	RECTIFIER #2		2#10,1#100,1"C	2#10,1#100,1"C	_	RECTIFIER #8	2	30	18
19	_	_		_	_	_	_	_	_	_	20
21	30	2	RECTIFIER #3	_	2#10,1#10G,1"C	2#10,1#10G,1"C	_	RECTIFIER #9	2	30	22
23	_	_		_	_	_	_	_	_	_	24
25	30	2	RECTIFIER #4	_	2#10,1#10G,1"C	2#10,1#10G,1"C	_	RECTIFIER #10	2	30	26
27	_	_	_		_	_	-		_	_	28
29	30	2	RECTIFIER #5	_	2#10,1#10G,1"C	2#10,1#10G,1"C	_	RECTIFIER #11	2	30	30
31	_	_	_	_		_		-	_	_	32
33	30	2	RECTIFIER #6	_	2#10,1#10G,1"C	2#10,1#10G,1"C	_	RECTIFIER #12	2	30	34
35	_	_	_	_	_	_	_	_	_	_	36
37	20	1	RECEPTACLE	0.4	2#12,1#12G,3/4"C	2#12,1#12G,3/4"C	0.6	RECEPTACLE	1	20	38
				1							

41 - - -

39 60 2 CU-1

BRANCH CB AND CONDUCTOR SIZE AND QUANTITY BASED ON SPECIFIED EQUIPMENT. CONFIRM ELECTRICAL

2#6-1#8G,1"C

2 60 40

REQUIREMENTS PRIOR TO INSTALLATION.

2. ALL BRANCH CIRCUITS SHALL BE ROUTED IN 4" X 4" WIREWAY TO FULLEST POSSIBLE EXTENT. CONNECTIONS FROM WIREWAY TO EQUIPMENT AND DEVICES SHALL BE IN CONDUIT INDICATED IN PANELBOARD SCHEDULE.

4.0 2#6-1#8G,1°C

4.0 -

STANDARD ACCESSORIES

- COPPER BUSSING ONLY
- COPPER EQUIPMENT GROUND KIT - INSULATED COPPER SOLID NEUTRAL BAR
- BOLT-ON TYPE BRANCH CIRCUIT BREAKERS
- METAL DIRECTORY FRAME WITH GLASS/PLASTIC WINDOW
- LAMINATED ENGRAVED BAKELITE NAMEPLATE - FRONT DOOR (DOOR-IN-DOOR CONSTRUCTION)

EQUIPMENT LEGEND

ESIGNATION	DESCRIPTION

- SURGE ARRESTER JOSYLN #1455-85-PM FOR THREE PHASE, FOUR WIRE 208Y/120VAC IN A NEMA 1 ENCLOSURE.
- PHASE LIGHTS "LED" PILOT LIGHT, AMBER 120V, LONG LIFE MOUNTED IN McKINSTRY #53-3 PILOT LIGHT ENCLOSURE, PROVIDE ONE LAMP FOR EACH PHASE TO NEUTRAL.

(1) ONE AMP FUSES PER PHASE AHEAD OF EACH VOLTAGE MONITOR.

- VOLTAGE MONITOR TIME MARK CORPORATION.

 MODEL #AC260B-80-130 (6) SIX SINGLE PHASE, 120VOLTS. FURNISH MATCHING SOCKET #51X00120-01.

 MOUNT IN 12" X 12" X 4"D NEMA 1 ENCLOSURE (McKINSTRY #30-12124LP/42-1212) WITH "T" HANDLE LATCH KIT. FURNISH AND INSTALL GENERAL DUTY FUSIBLE DISCONNECT SWITCH IN NEMA 1 ENCLOSURE WITH
- AUTOMATIC TRANSFER SWITCH ASCO # 94032604711C/14B FOR THREE PHASE, FOUR WIRE 208Y/120VAC IN NEMA 1 ENCLOSURE.

	LIGHT FIXTURE SCHEDULE						
TYPE	MANUFACTURER CATALOG/MODEL No.	DESCRIPTION	LAMP	MOUNTING	NOTES		
В	HUBBELL WIW43WACT1	SURFACE MOUNTED LIGHT FIXTURE WITH ACRYLIC PRISMATIC LENS, T-8 LAMPS AND ELECTRONIC BALLAST	(3)-32W	CEILING	1		
Е	SURE-LITES #CC-3-WHSD	EMERGENCY LIGHT UNIT WITH 90 MINUTE NICKEL CADMIUM BATTERY & SELF-DIAGNOSTIC TESTING FEATURE	(2) 5.4W PAR36	CEILING	1		

1. PROVIDE ALL THE NECESSARY ACCESSORIES AS REQUIRED TO MOUNT LIGHTING FIXTURES

TO CEILING STRUCTURE AS REQUIRED.

SYMBOL	DESCRIPTION
	FLUORESCENT LIGHTING FIXTURE
4_4	EMERGENCY FIXTURE
<u> </u>	DISCONNECT SWITCH
MDP/#	HOMERUN. PANELBOARD AND CIRCUIT # AS INDICATED
/\	BRANCH CIRCUIT CONDUIT AND CONDUCTORS
/\	SWITCHED BRANCH CIRCUIT CONDUIT AND CONDUCTORS
E	ELECTRICAL CONDUIT AND CONDUCTORS
T	TELECOMMUNICATIONS CONDUIT AND CABLES
G	GROUND SYSTEM CONDUIT AND CONDUCTORS
S _T	60 MIN.TIMER SWITCH. (MOUNTED 54" AFF)
MDP	MAIN DISTRIBUTION PANEL
AJB	ALARM JUNCTION BOX
φ	DUPLEX RECEPTACLE
*	QUADRUPLEX RECEPTACLE
	SPECIAL PURPOSE CONNECTION W/FUSED DISCONNECTION
TH	HIGH TEMPERATURE SENSOR
T)	LOW TEMPERATURE SENSOR
T	THERMOSTAT (PROVIDED BY DIVISION 15, INSTALLED BY DIVISION 16)
H	HIGH HUMIDISTAT (PROVIDED BY DIVISION 15, INSTALLED BY DIVISION 16)
<u>\$</u>	SMOKE DETECTOR
Α	DOOR ALARM CONTACT
ATS	AUTOMATIC TRANSFER SWITCH
▼	TELEPHONE OUTLET, RJ-11/45 MODULAR JACK (MOUNTED 54" AFF)
*	EXOTHERMIC WELD CONNECTION
C	MECHANICAL CONNECTION USING COMPRESSION LUG CONNECTOR
E	MECHANICAL CONNECTION USING EXOTHERMIC WELDED LUG CONNECTOR
Ī	MECHANICAL CONNECTION USING (3) C-TAP COMPRESSION MAIN - BRANCH
	01 000000

2" COPPER WIRE WITH COMPRESSION LUGS AT EACH END. CUT TO LENGTH IN FIELD.(BRAID)

\$

STOL

GROUND BAR

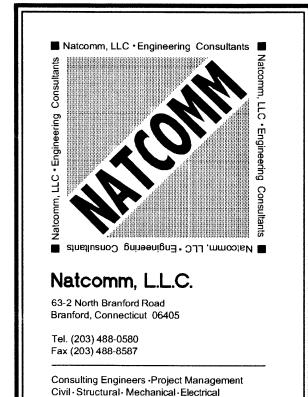
PHOTO CELL

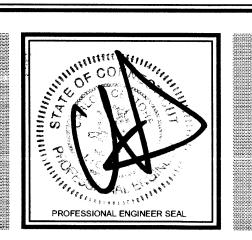
SAFETY TOGGLE DISCONNECT

ELECTRICAL ABBREVIATIONS		
ABBREVIATION	DESCRIPTION	
AFF	ABOVE FINISHED FLOOR	
AIC	AMPERE INTERRUPTING CAPACITY	
AWG	AMERICAN WIRE GAGE	
С	CONDUIT	
EGR	exterior ground ring	
G - GRD	GROUND	
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	
IGR	INTERIOR GROUND RING MOUNTED 9'-0" ABOVE FINISHED FLOOR	
KWH	KILO-WATT-HOUR	
MCCB	MOLDED CASE CIRCUIT BREAKER	
MDP	MAIN DISTRIBUTION PANEL	
NC	NORMALLY CLOSED	
ос	ON CENTER	
SA	SURGE ARRESTOR	
VM	VOLTAGE MONITOR	
WP	WEATHERPROOF	

	REVISIONS						
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NEW FAIRFIELD

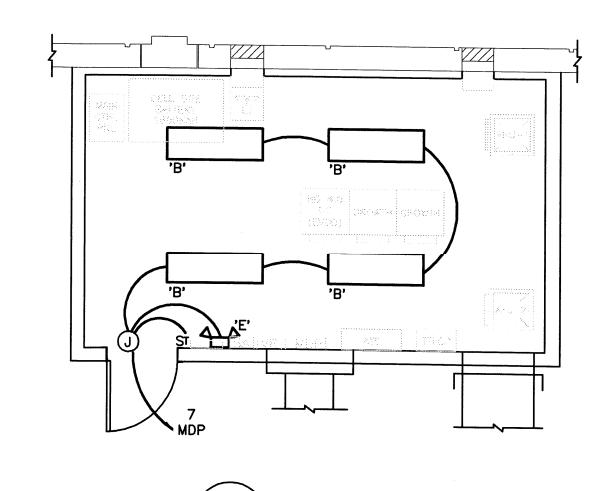
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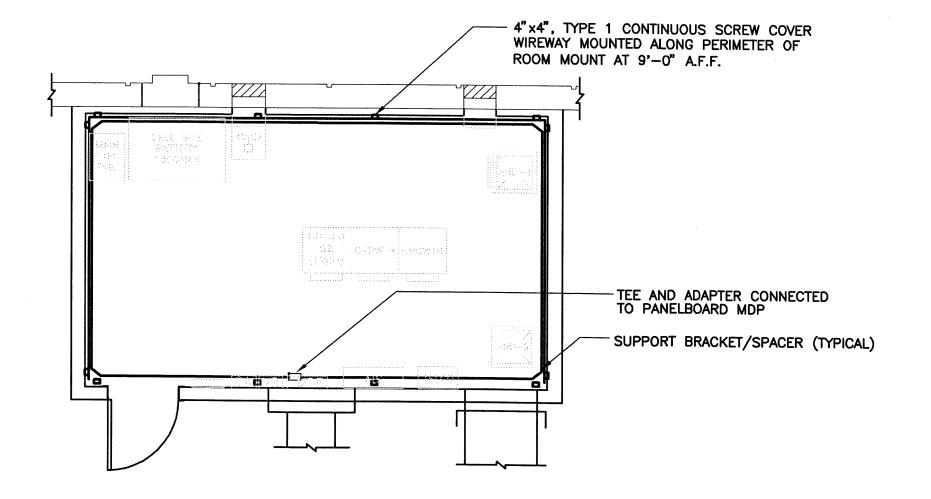
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ELECTRICAL NOTES & **ABBREVIATIONS**



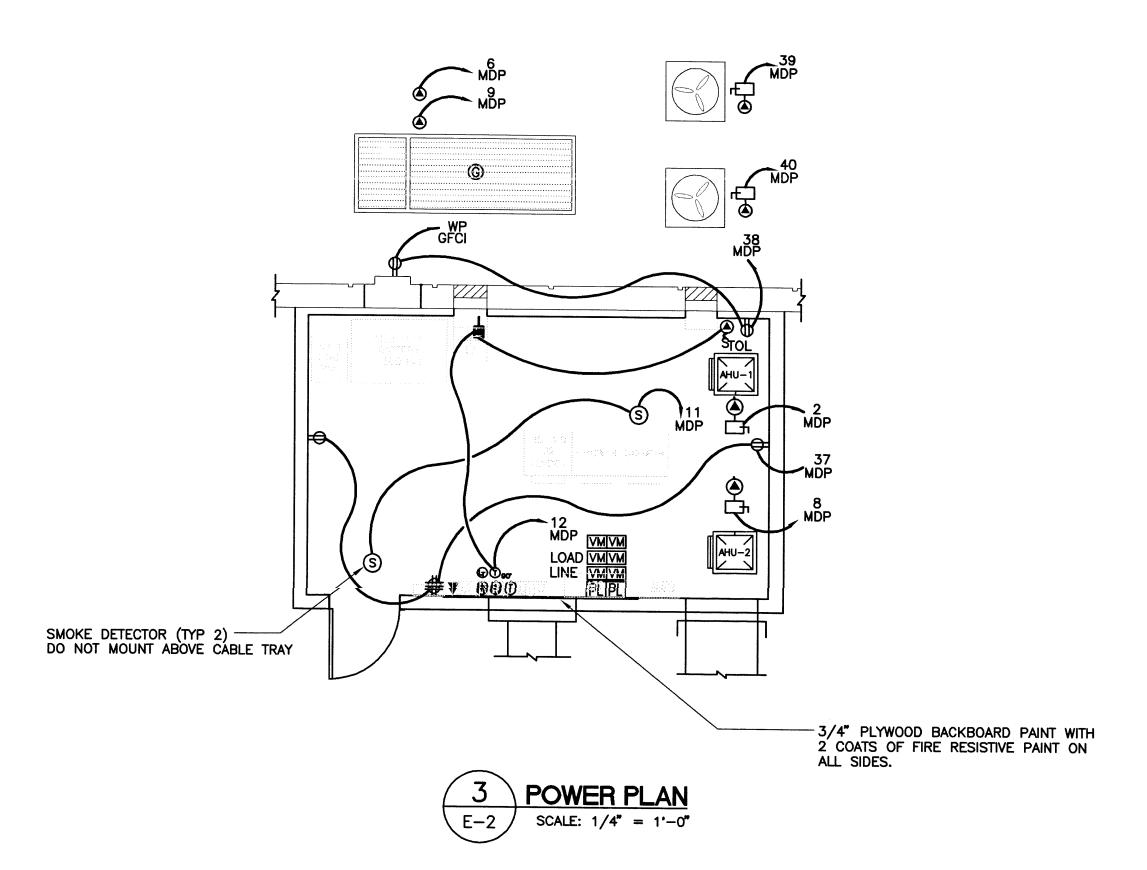
DWG. 8 OF 14

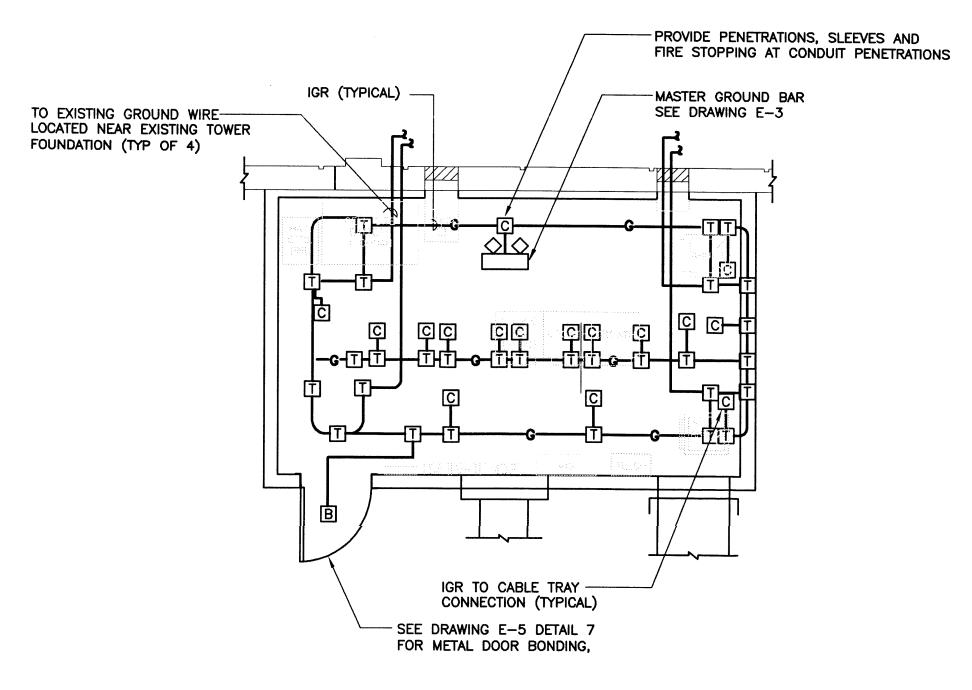




WIREWAY LAYOUT PLAN

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

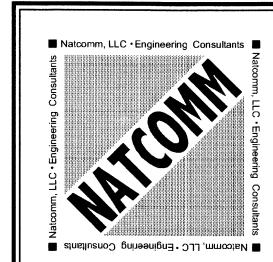






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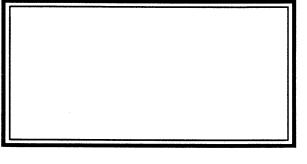
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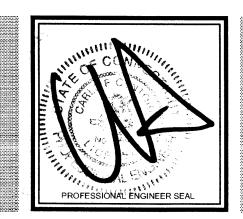


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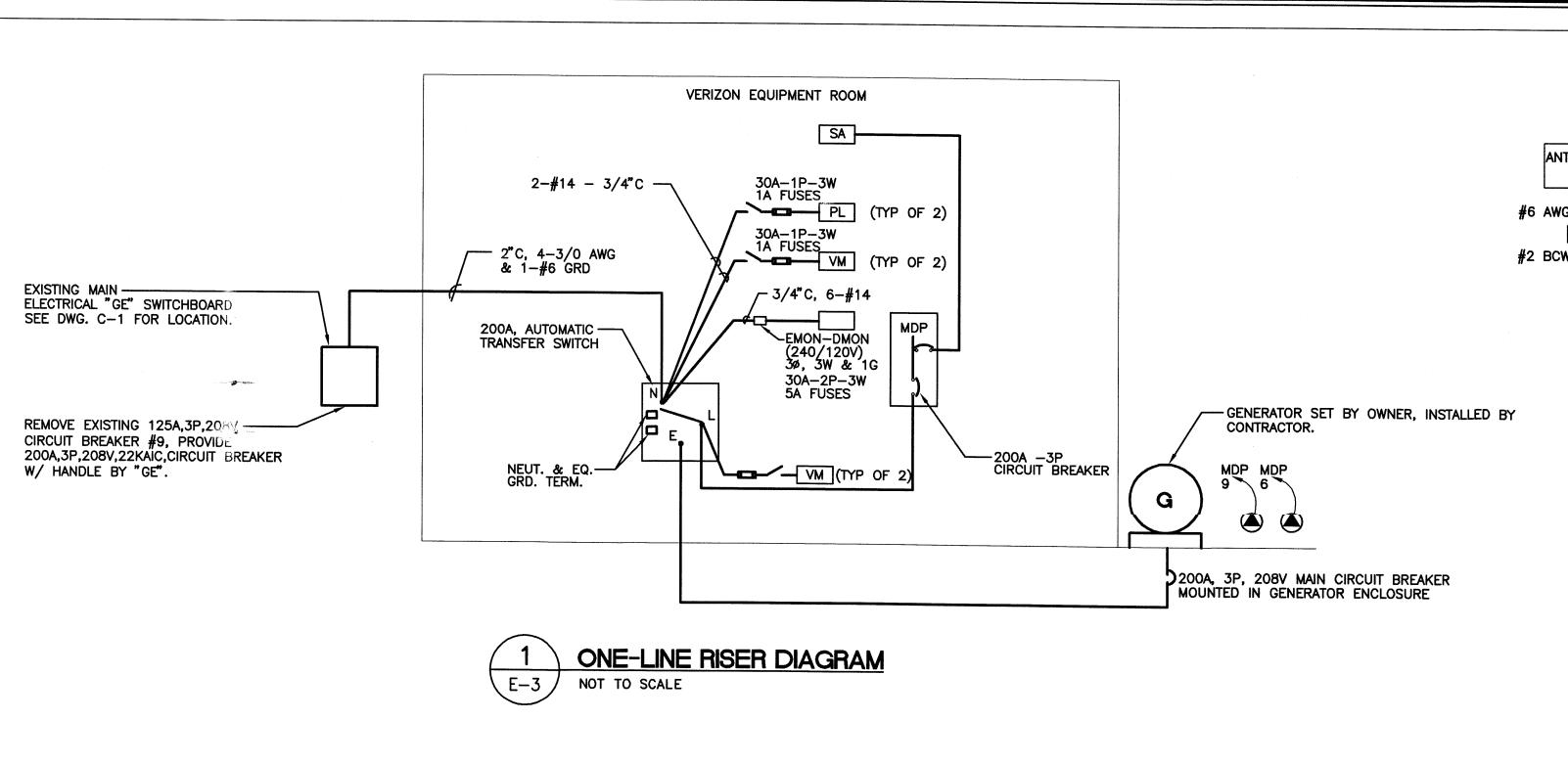
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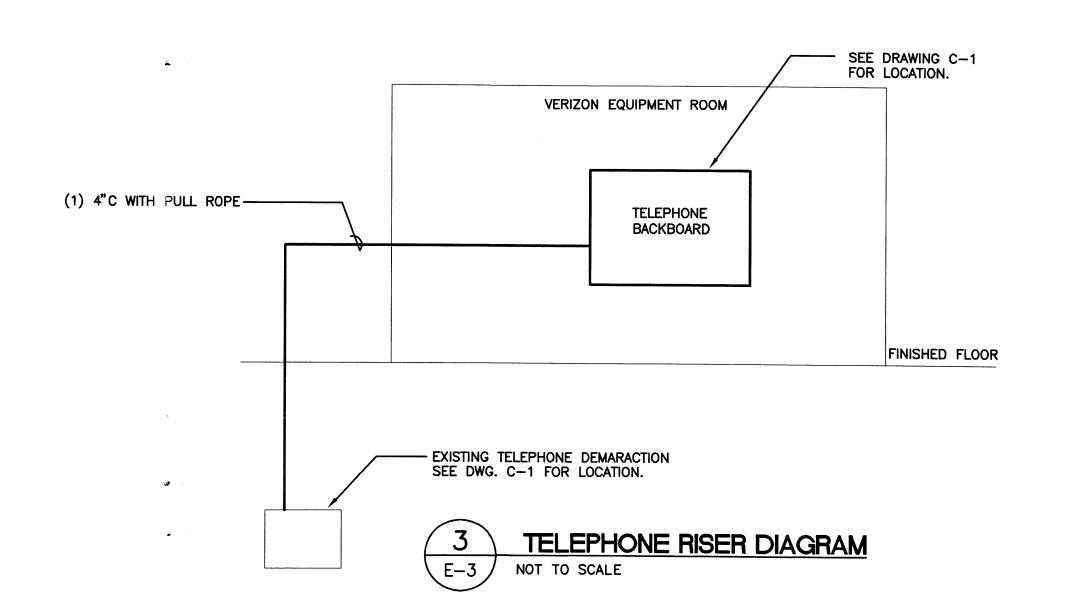
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CHECKED BY:	FRC
SCALE:	1/4"=1'-0"
DATE:	08/19/05

ELECTRICAL PLANS

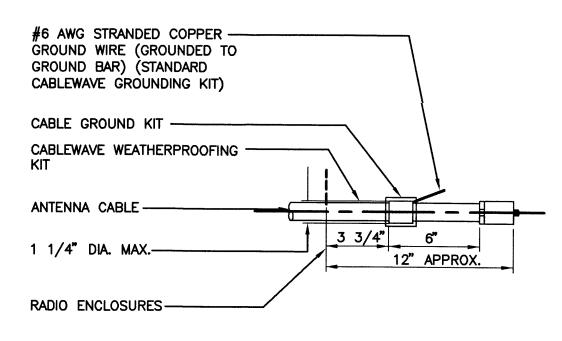
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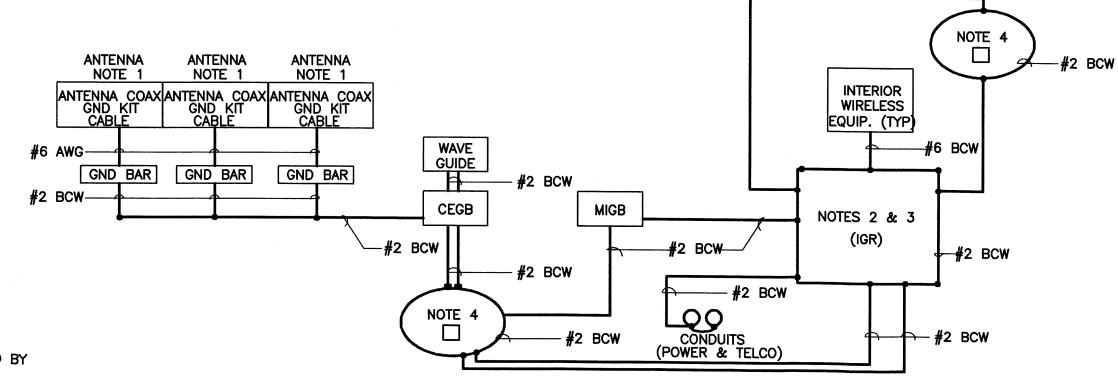
Contraction . The contractions



NOTE: DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

5 CABLE GROUND ANTENNA DETAIL

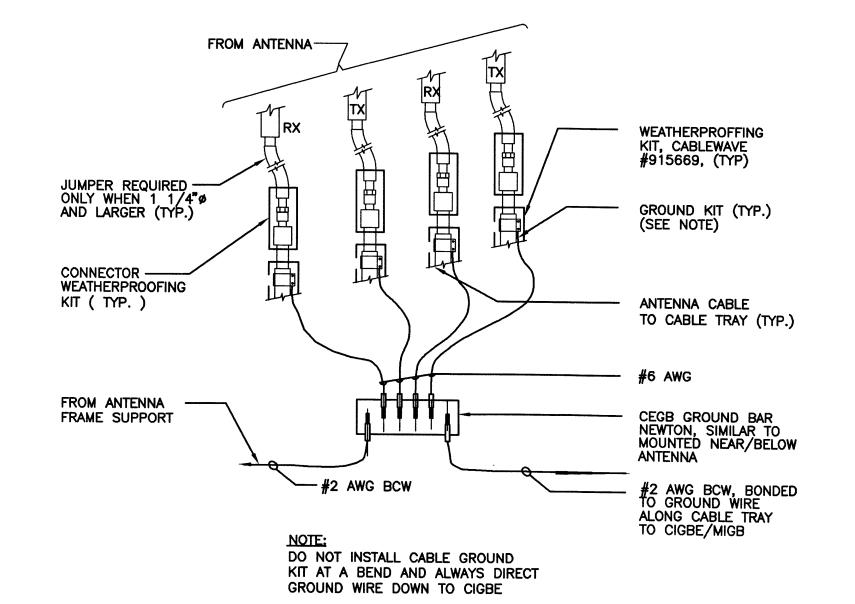
NOT TO SCALE



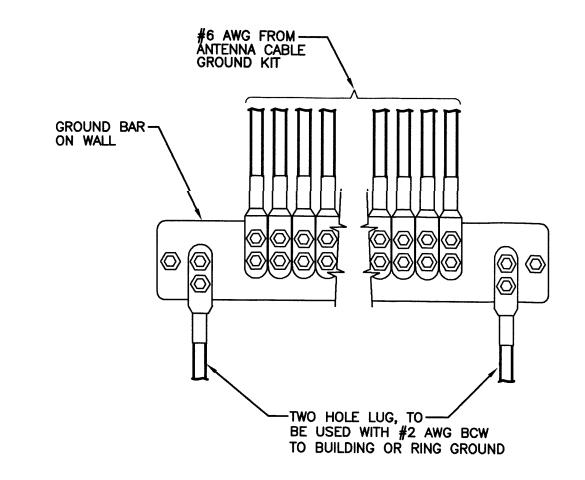
NOTES:

- 1. BOND ANTENNA GROUNDING KIT CABLE TO GROUND BAK
- 2. INTERIOR RING GROUND FOR EQUIPMENT.
- 3. FOR GROUNDING CONNECTION & DETAILS, SEE LAYOUT DRAWINGS.
- 4. BUILDING STEEL.

2 SCHEMATIC DIAGRAM - GROUNDING SYSTEM NOT TO SCALE



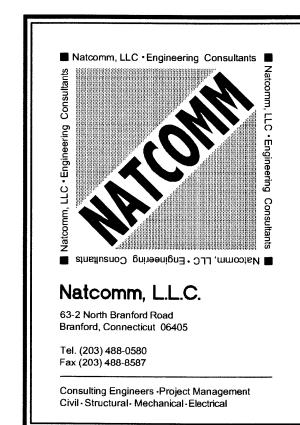
4 CONNECTION OF GROUND WIRES TO GROUNDING BAR NOT TO SCALE

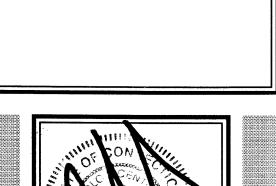


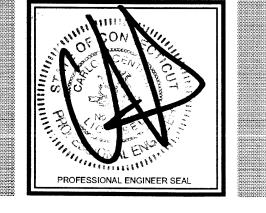
6 INSTALLATION OF GROUND WIRE TO GROUND BAR NOT TO SCALE

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NEW FAIRFIELD

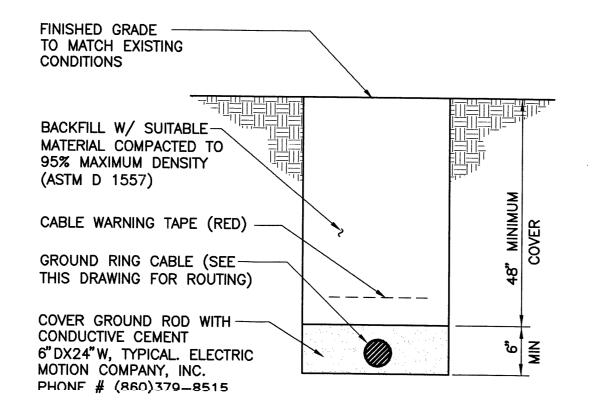
TITICUS MNT. RD. NEW FAIRFIELD, CONNECTICUT

1		
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ELECTRICAL DETAILS

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DWG. 10 OF 14



NOTES:

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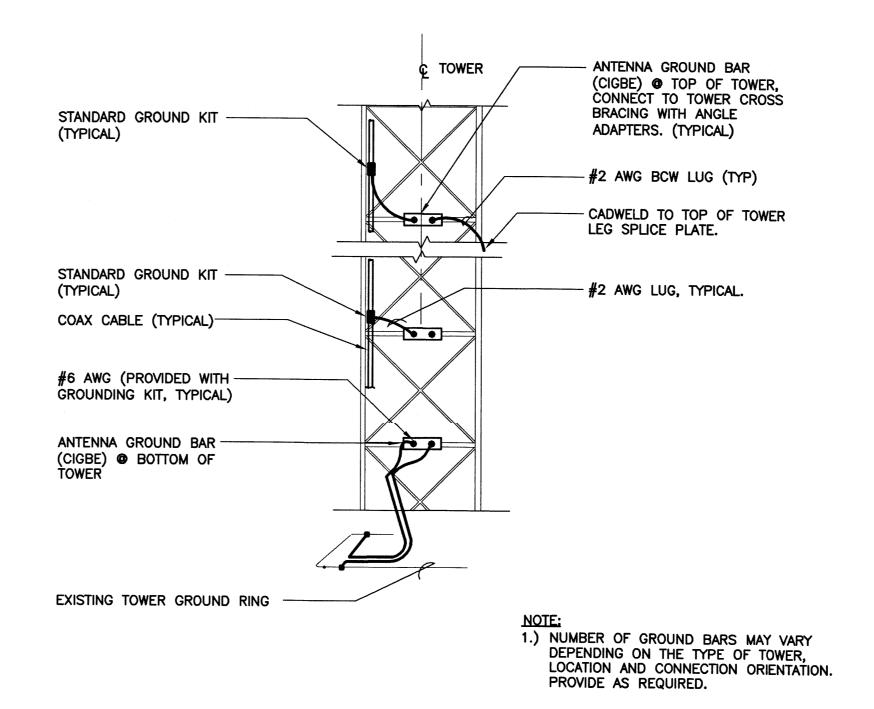
and the states

 BACK FILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION.

 WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.

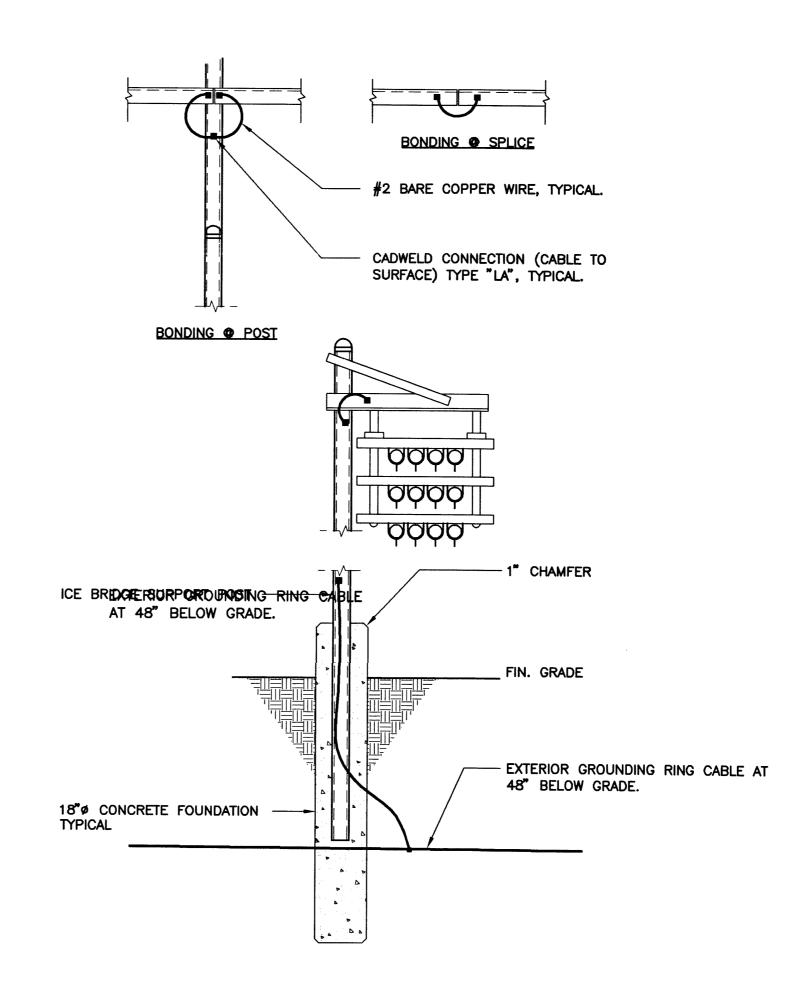
1 TYPICAL BURIAL GROUND CABLE DETAIL

NOT TO SCALE



2 ANTENNA CABLE GROUNDING - LATTICE TOWER

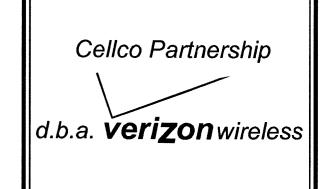
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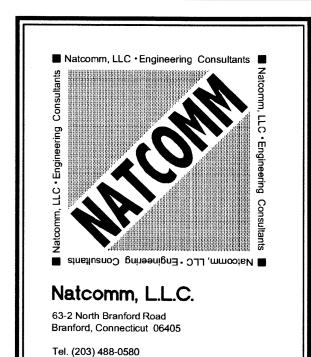


3 ICE BRIDGE BONDING DETAIL

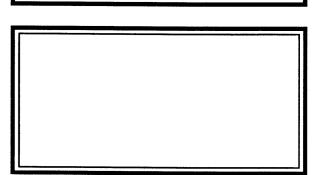
NOT TO SCALE

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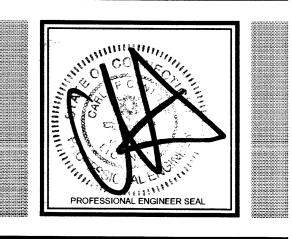




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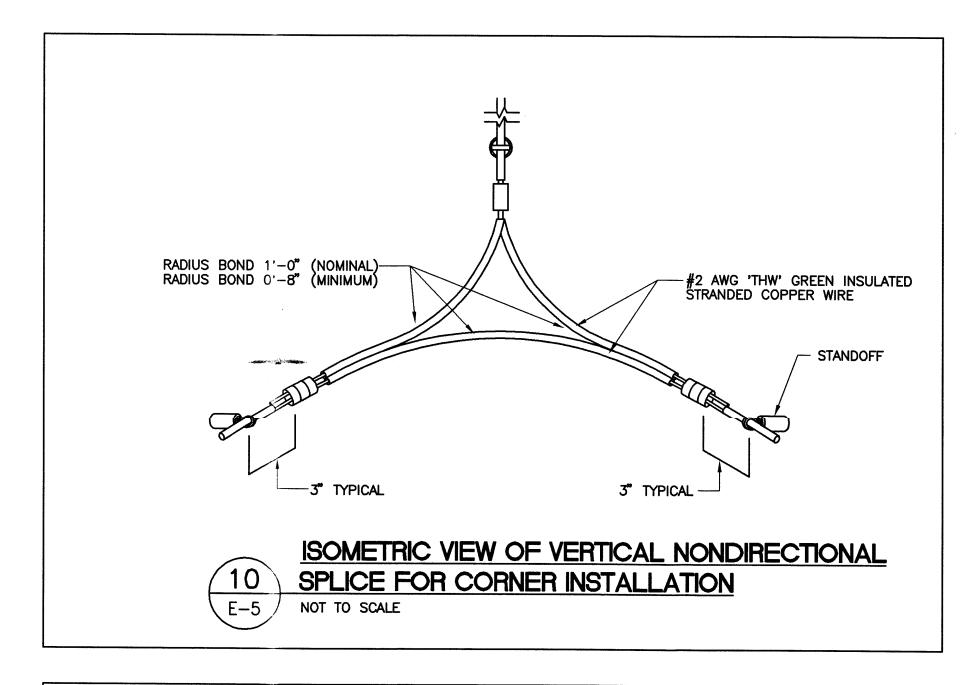


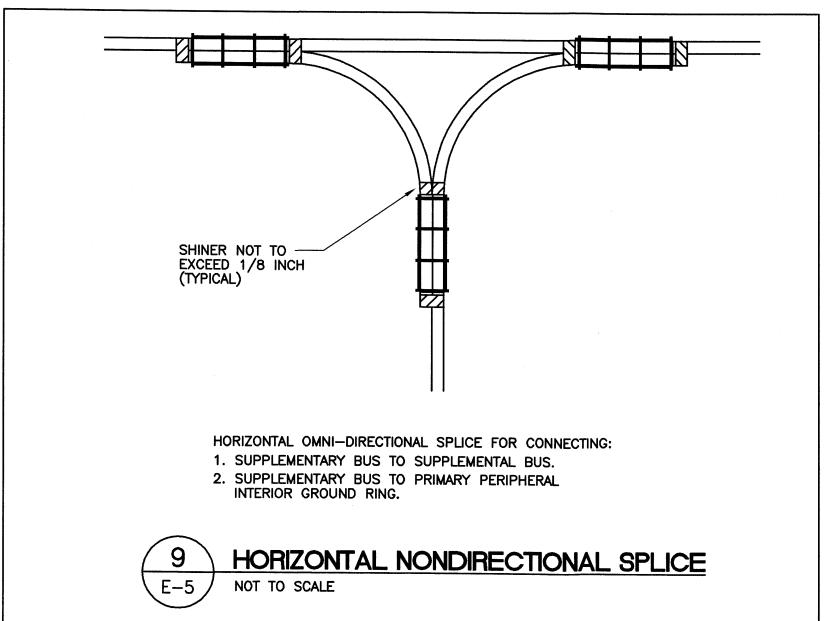
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NEW FAIRFIELD, CONNECTICUT

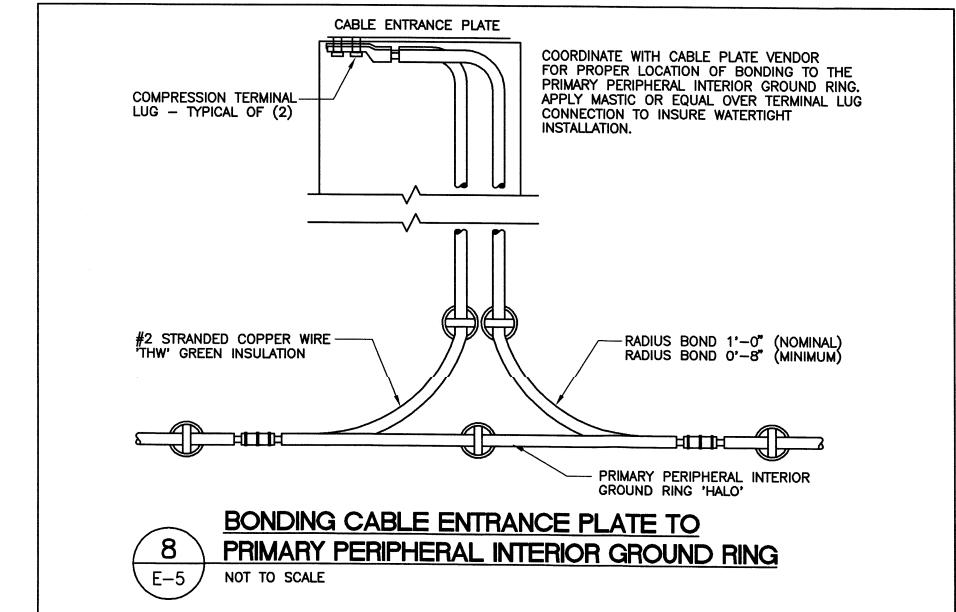
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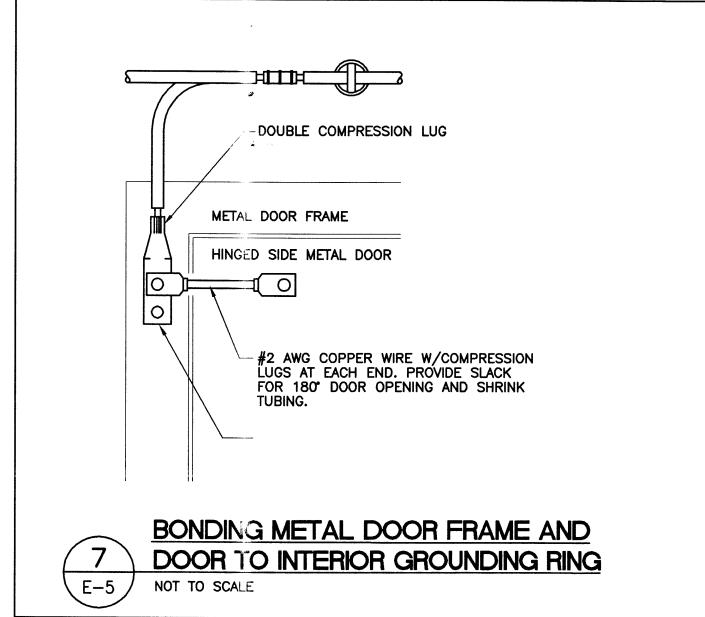
GROUNDING DETAILS

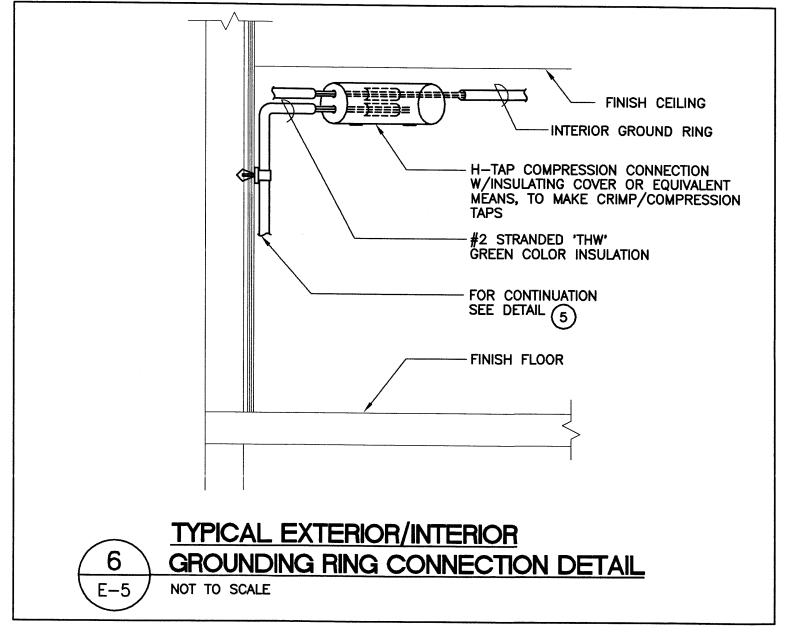


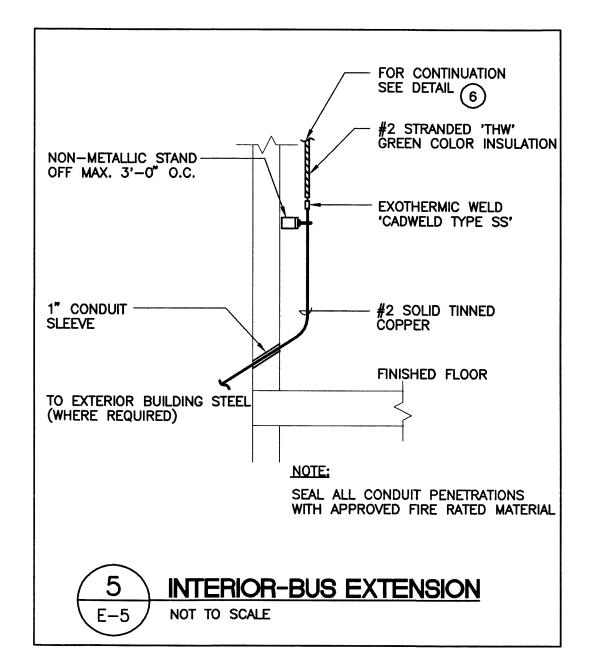


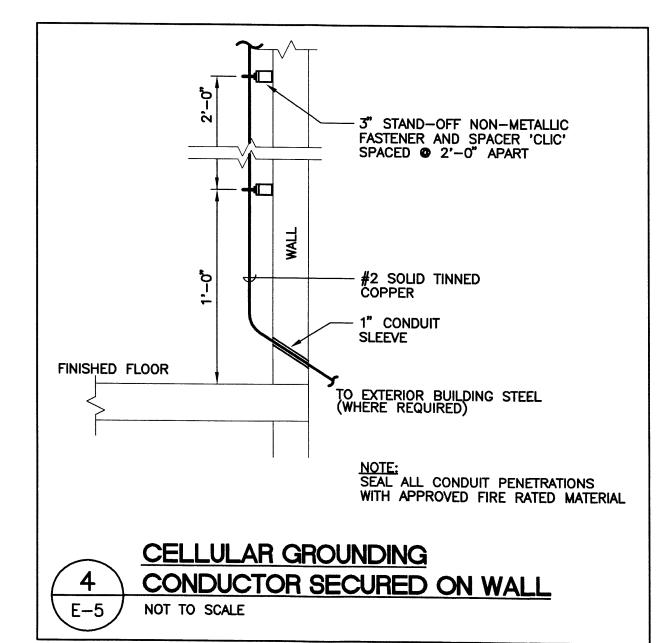


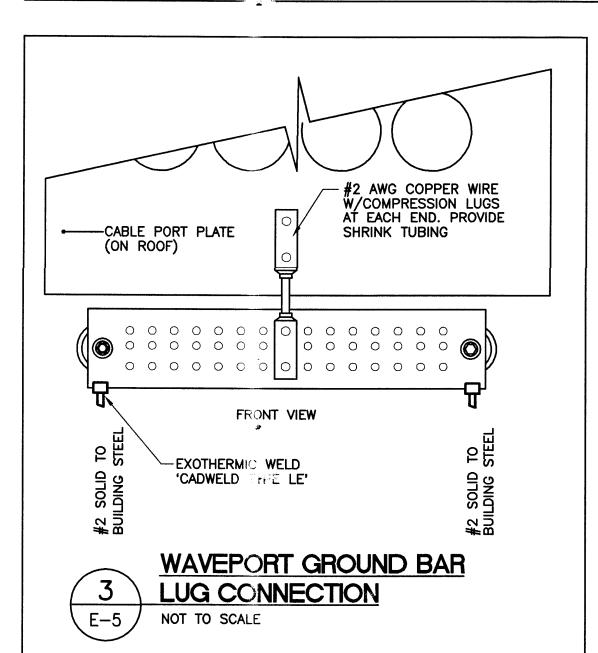


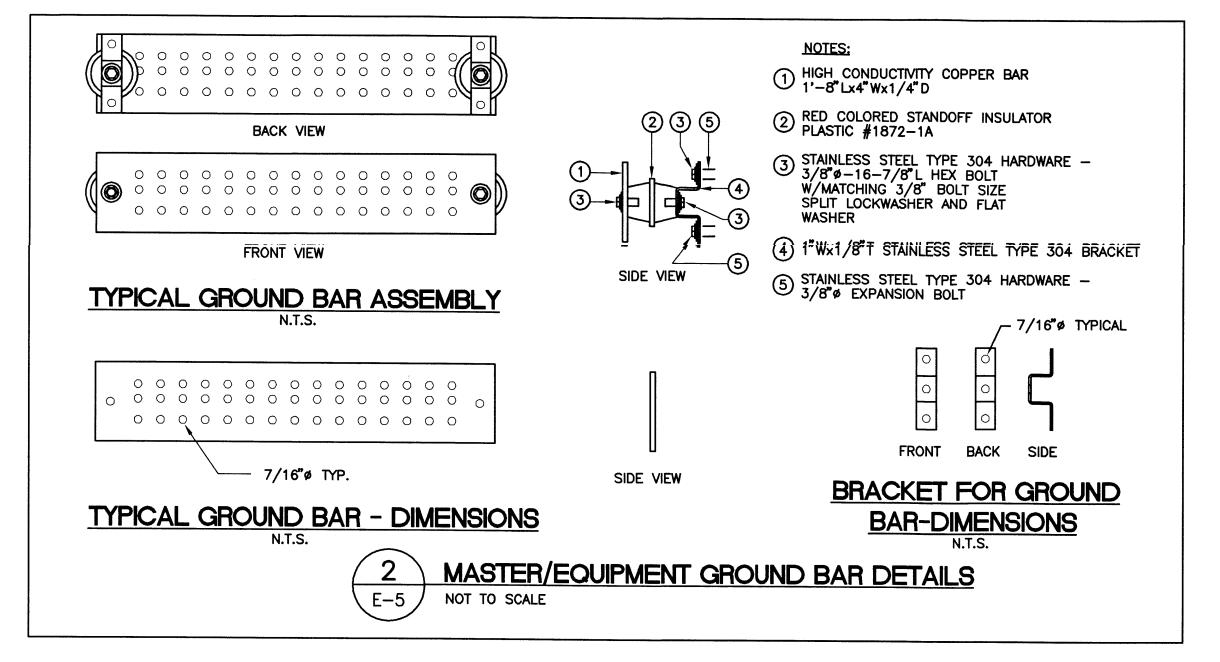


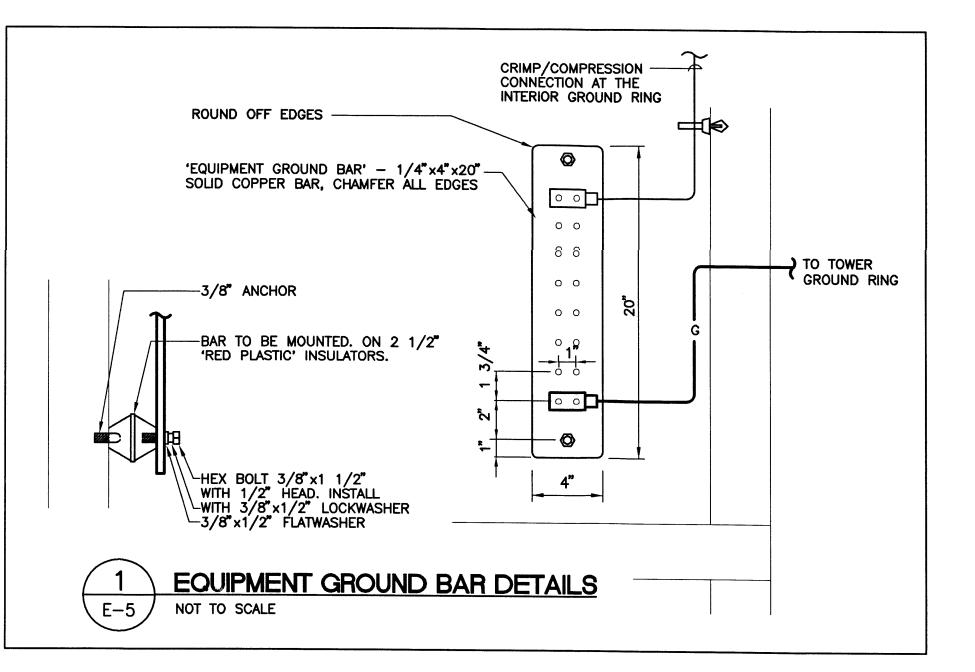


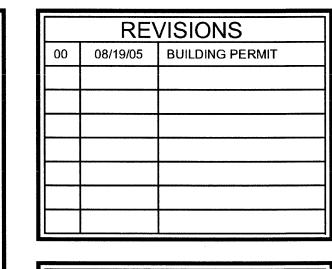


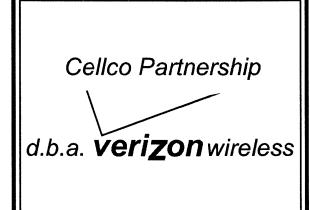


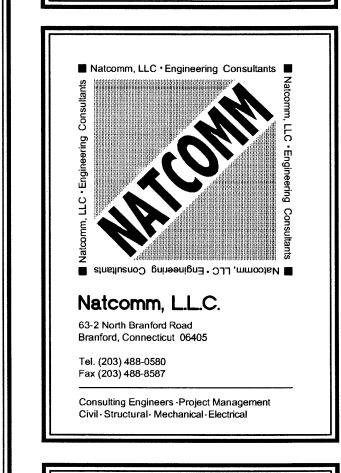


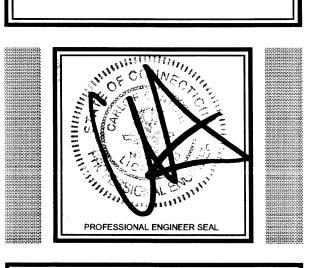


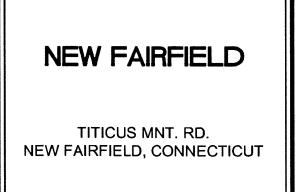








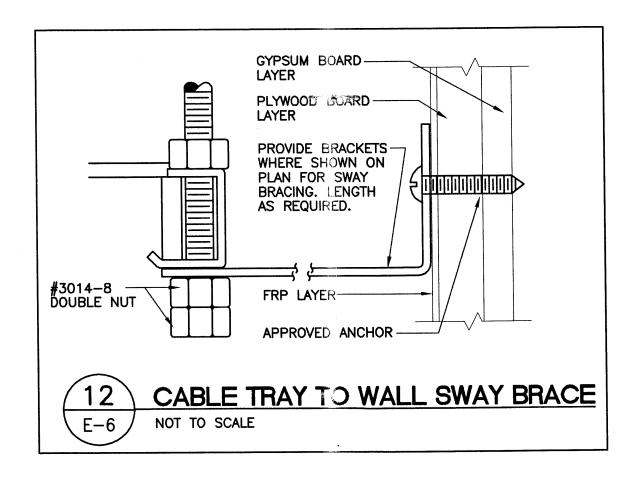


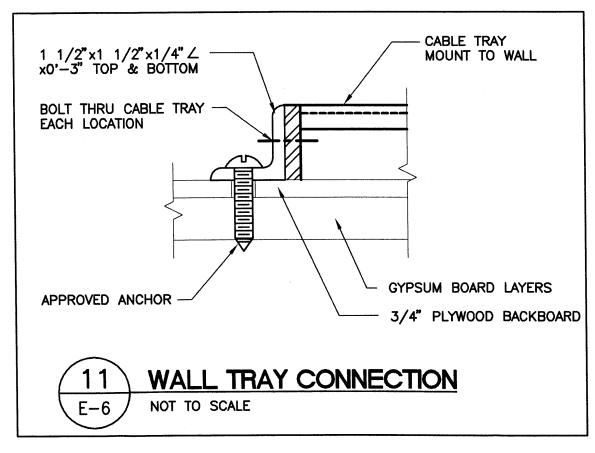


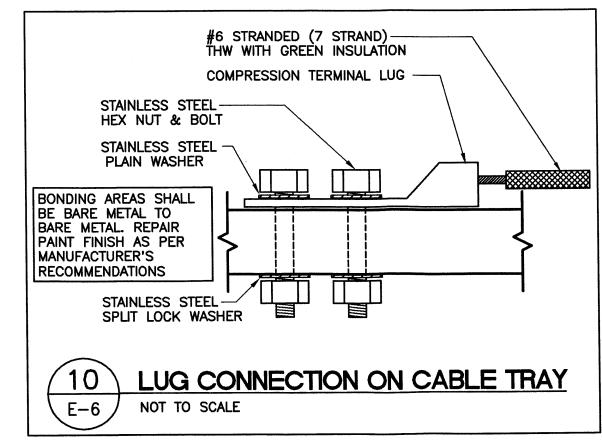
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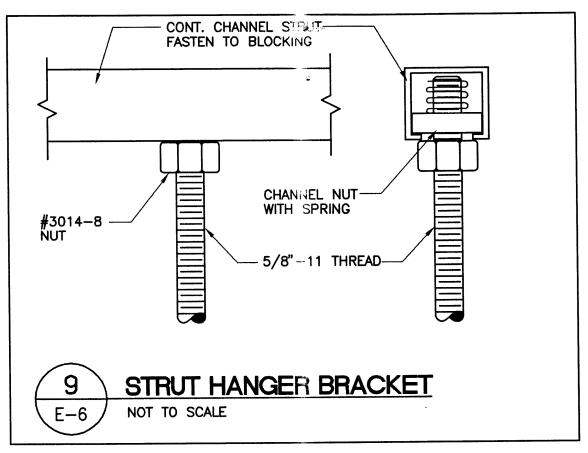
CELLULAR DETAILS

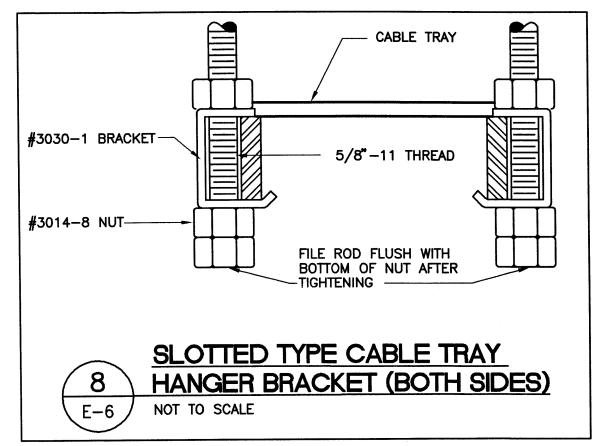
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DWG. 12 OF 14

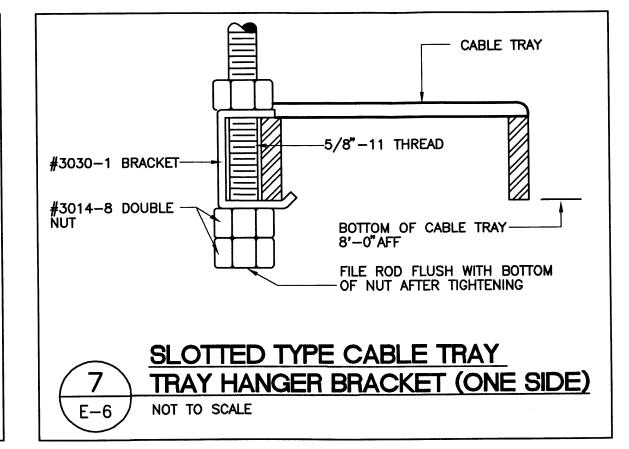


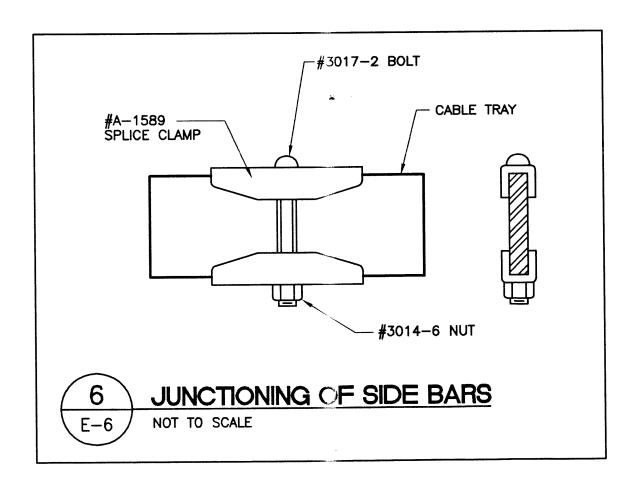


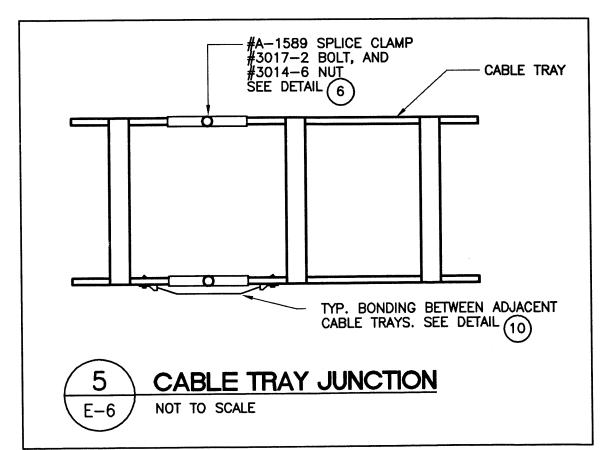


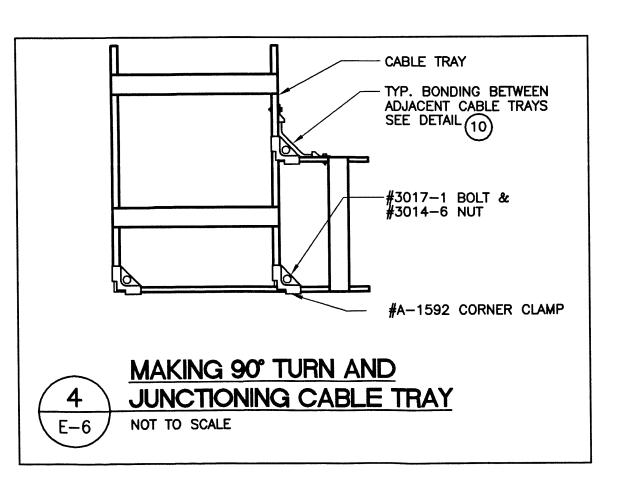


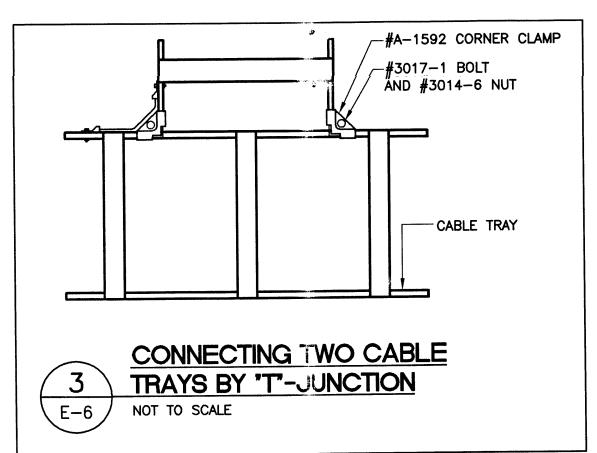


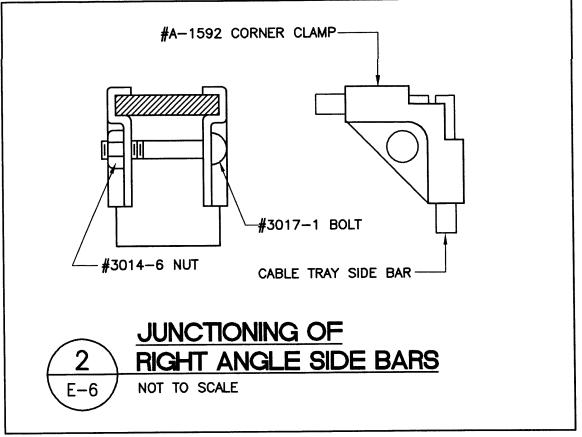


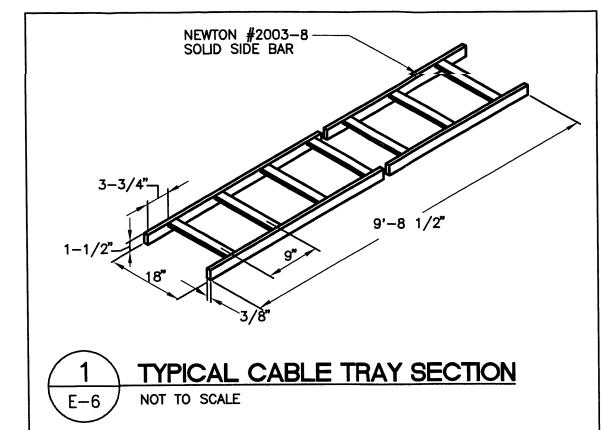


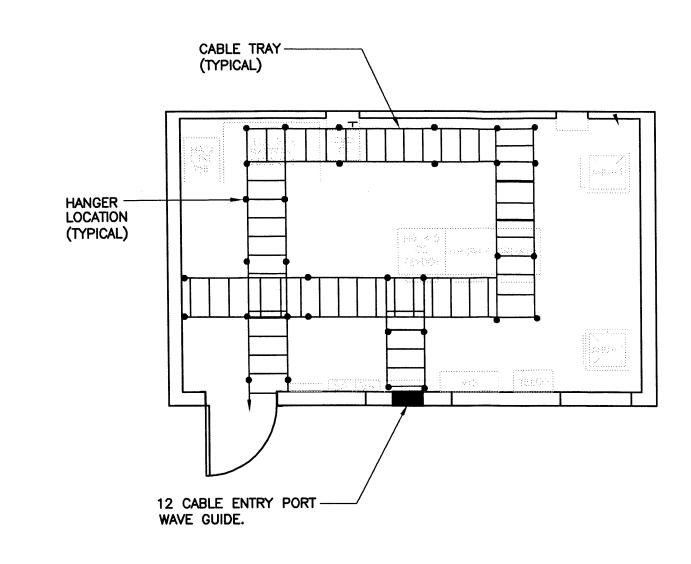












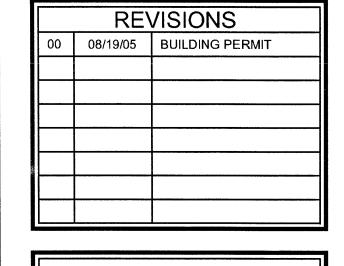


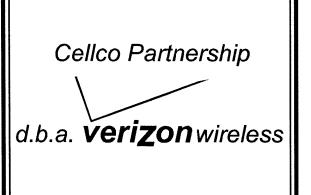
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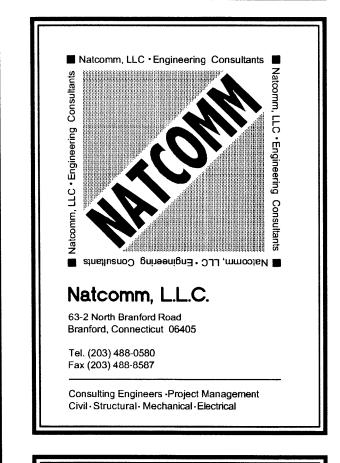
- 1. CABLE TRAY SHALL BE 18" WIDE, SOLID SIDE BAR, GOLD ANODIZED FINISH, AS MANUFACTURED BY NEWTON INSTRUMENT COMPANY, INC. (919-575-6426). REFER TO DETAIL 1.
- 2. REFER TO DETAILS 1 THROUGH 12 FOR APPLICABLE CABLE TRAY INSTALLATION REQUIREMENTS.
- 3. CABLE TRAY SHALL BE SUPPORTED BY "UNISTRUT," ATTACHED TO SUPPORTING CHANNEL VIA THREADED ROD. PROVIDE ALL SUPPORTS, UNISTRUT, HANGERS, ETC. AS REQUIRED FOR COMPLETE INSTALLATION.
- 4. THREADED ROD SUPPORTS FOR THE CABLE TRAY SHALL BE SPACED NO MORE THAN
- 48" O.C. ON EACH SIDE.

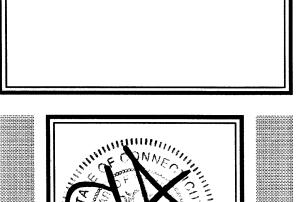
 5. CABLE TRAY SHALL BE 6" AWAY FROM FINISHED WALLS.
- 6. BOTTOM OF CABLE TRAY SHALL BE 8'-0" A.F.F.
- 7. ADJACENT CABLE TRAYS SHALL BE GROUNDED TOGETHER. REFER TO ELECTRICAL PLAN(S) FOR INTERIOR GROUNDING RING BOND TO CABLE TRAY.
- 8. ALL GROUND CONNECTIONS, CABLE TRAYS SHALL BE COATED WITH AN ANTI—OXIDANT LUBRICANT AFTER BURNISHING AND BEFORE TERMINAL CONNECTIONS ARE MADE.
- 9: CONTRACTOR SHALL FILE SMOOTH EDGES OF CABLE TRAY THAT HAVE BEEN CUT TO
- LENGTH IN THE FIELD. PAINT MODIFIED CABLE TRAY AS PER MANUFACTURER'S RECOMMENDATIONS.

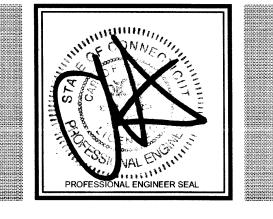
 10. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.











NEW FAIRFIELD

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CABLE TRAY
PLAN AND
DETAILS

E-6DWG. 13 OF 14

I.01. SCOPE OF WORK

- A. WORK SHALL INCLUDE ALL LABOR, EQUIPMENT AND SERVICES REQUIRED TO COMPLETE (MAKE READY FOR OPERATION) ALL THE ELECTRICAL WORK INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
 - 1. 208Y/120V 3 PHASE 4 WIRE ELECTRIC SERVICE MAIN DISCONNECT AND REVENUE METER.
 - 2. DISTRIBUTION PANELBOARD(S).
 - 3. GENERATOR TRANSFER SWITCH.
 - 4. FEEDERS AND BRANCH CIRCUIT WIRING TO PANELS, RECEPTACLES, EQUIPMENT, LIGHTING FIXTURES, ETC. AS INDICATED OR NOTED ON
 - 5. POWER AND TEMPERATURE CONTROL WIRING FOR HVAC EQUIPMENT.
 - G. FURNISH AND INSTALL ALL POWER WIRING FOR ALL HEATING, VENTILATING, AIR CONDITIONING, MOTORS AND DEVICES, AND FIRE PROTECTION EQUIPMENT INDICATED ON THE PLANS OR CALLED FOR IN THIS SPECIFICATION, EITHER ELECTRICAL OR MECHANICAL INCLUDING ALL CONTROL WIRING. ALL MAGNETIC STARTERS SHALL BE FURNISHED UNDER DIVISION 15 AND HAVE INSTALLED THEREIN A PROPER OVERLOAD HEATER FOR EACH MOTOR.
 - D. ALL WIRING, BOTH POWER AND CONTROL, FOR SUCH ITEMS AS UNIT HEATERS, EXHAUST FANS, ETC., NOT SPECIFICALLY CALLED FOR IN THE TEMPERATURE CONTROL SPECIFICATIONS, SHALL BE WIRED UNDER DIVISION 16.
 - c. ALL CONTROLS WHICH ARE TO BE WIRED BY THIS CONTRACTOR SHALL BE DELIVERED TO HIM BY THE CONTRACTOR/VENDOR FURNISHING THEM
 - 6. CELLULAR SITE ALARMS, ASSOCIATED WIRING AND
 - 7. CELLULAR GROUNDING SYSTEMS, CONSISTING OF ANTENNA GROUNDING, INTERIOR GROUNDING RING, GROUND BARS, ETC.
 - 8. FURNISH AND INSTALL 3/4" PLYWOOD BACKBOARD OF SIZE INDICATED ON DRAWINGS FOR MOUNTING OF POWER/SERVICE EQUIPMENT AND TELEPHONE/ALARM EQUIPMENT. BACKBOARDS SHALL BE PAINTED WITH TWO (2) COATS OF SEMI-GLOSS GRAY FIRE RETARDANT PAINT.
- B. CONTRACTOR SHALL CONFER WITH LOCAL UTILITY COMPANIES TO ASCERTAIN THE LIMITS OF THEIR WORK AND SHALL INCLUDE IN BID ANY CHARGES OR FEES MADE BY THE UTILITY COMPANIES FOR THEIR PORTION OF THE WORK.

1.02. GENERAL REQUIREMENTS

- A. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE MADE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES AND REGULATIONS WHICH MAY APPLY AND NOTHING IN THE DRAWINGS OR SPECIFICATIONS SHALL BE INTERPRETED AS AN INFRINGEMENT OF SUCH CODES OR REGULATIONS.
- B. THE ELECTRICAL CONTRACTOR IS TO BE RESPONSIBLE FOR THE COMPLETE INSTALLATION AND COORDINATION OF THE ENTIRE ELECTRICAL SERVICE. ALL ACTIVITIES TO BE COORDINATED THROUGH BELL ATLANTIC MOBILE REPRESENTATIVE, DESIGN ENGINEER AND OTHER AUTHORITIES HAVING JURISDICTION OF TRADES.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND PAY ALL FEES AS MAY BE REQUIRED FOR THE ELECTRICAL WORK AND FOR SCHEDULING OF ALL INSPECTIONS AS MAY BE REQUIRED BY THE LOCAL AUTHORITY.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE BUILDING OWNER FOR NEW AND/OR DEMOLITION WORK INVOLVED.
- E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH LOCAL TELEPHONE COMPANY AS MAY BE REQUIRED FOR THE INSTALLATION OF TELEPHONE SERVICE TO THE PROPOSED CELLULAR SITE.
- F. NO MATERIAL OTHER THAN THAT CONTAINED IN THE "LATEST LIST OF ELECTRICAL FITTINGS" APPROVED BY THE UNDERWRITERS' LABORATORIES, SHALL BE USED IN ANY PART OF THE WORK. ALL MATERIAL FOR WHICH LABEL SERVICE HAS BEEN ESTABLISHED SHALL BEAR THE U.L. LABEL.
- G. THE CONTRACTOR SHALL GUARANTEE ALL NEW WORK FOR A PERIOD OF ONE YEAR FROM THE ACCEPTANCE DATE BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WARRANTIES FROM ALL EQUIPMENT MANUFACTURERS FOR SUBMISSION TO THE OWNER.
- H. DRAWINGS INDICATE GENERAL ARRANGEMENT OF WORK INCLUDED IN CONTRACT. CONTRACTOR SHALL WITHOUT EXTRA CHARGE, MAKE MODIFICATIONS TO THE LAYOUT OF THE WORK TO PREVENT CONFLICT WITH WORK OF OTHER TRADES AND FOR THE PROPER INSTALLATION OF WORK. CHECK ALL DRAWINGS AND VISIT JOB SITE TO VERIFY SPACE AND TYPE OF EXISTING CONDITIONS IN WHICH WORK WILL BE DONE, PRIOR TO SUBMITTAL OF BID.
- I. THE ELECTRICAL CONTRACTOR SHALL SUPPLY THREE (3)
 COMPLETE SETS OF APPROVED DRAWINGS, ENGINEERING DATA
 SHEETS, MAINTENANCE AND SPERATING INSTRUCTION MANUALS
 FOR ALL SYSTEMS AND THEIR RESPECTIVE EQUIPMENT. THESE
 MANUALS SHALL BE INSERTED IN VINYL COVERED 3-RING
 BINDERS AND TURNED OVER TO OWNER'S REPRESENTATIVE ONE
 (1) WEEK PRIOR TO FINAL PUNCH LIST.
- J. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER AND WILL BE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
- K. ALL EQUIPMENT AND MATERIALS TO BE INSTALLED SHALL BE NEW, UNLESS OTHERWISE NOTED.
- L. BEFORE FINAL PAYMENT, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF PRINTS (AS-BUILTS), LEGIBLY MARKED IN RED PENCIL TO SHOW ALL CHANCES FROM THE ORIGINAL PLANS.
- M. PROVIDE TEMPORARY POWER AND LIGHTING IN WORK AREAS AS REQUIRED.

N. SHOP DRAWINGS

- 1. CONTRACTOR SHALL SUBMIT SIX (6) COPIES OF SHOP DRAWINGS ON ALL EQUIPMENT AND MATERIALS PROPOSED FOR USE ON THIS PROJECT, GIVING ALL DETAILS, WHICH INCLUDE DIMENSIONS, CAPACITIES, ETC.
- 2. CONTRACTOR SHALL SUBMIT SIX (6) COPIES OF ALL TEST REPORTS CALLED FOR IN THE SPECIFICATIONS AND DRAWINGS.

SECTION 1611

1.01. CONDUIT

A. MINIMUM CONDUIT SIZE FOR BRANCH CIRCUITS, LOW VOLTAGE
CONTROL AND ALARM CIRCUITS SHALL BE 3/4". ALL CONDUIT
RUNS LOCATED WITHIN THE VERIZON WIRELESS EQUIPMENT ROOM, SHALL ORIGINATE
FROM THE WIREWAY AND RUN VERTICALLY TO ITS DESTINATION.
NO BENDS WILL BE ACCEPTED. CONDUITS SHALL BE PROPERLY
FASTENED TO THE WALLS AND CEILINGS AS REQUIRED BY THE N.E.C.

CONDUIT MATERIAL SHALL BE AS FOLLOWS:

- (1) ELECTRIC METALLIC TUBING (EMT) BRANCH CIRCUITS INSIDE VERIZON WIRELESS ROOM
- (2) GALVANIZED RIGID CONDUIT (GRC) FEEDERS AND CIRCUITS EXPOSED TO EXTERIOR & UNDERGROUND.
- (3) LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR SHORT LENGTH (MAX. 3'-0") WIRING TO VIBRATING EQUIPMENT (HVAC UNITS, MOTORS, ETC.) IN WET LOCATIONS.

(5) PVC CONDUIT - WHERE SHOWN ON GROUNDING DETAILS.

(4) FLEXIBLE METAL CONDUIT — FOR SHORT LENGTH (MAX. 3'-0") WIRING TO VIBRATING EQUIPMENT IN DRY LOCATIONS.

SECTION 16114

1.01. CABLE TRAY

A. CABLE TRAY SHALL BE SOLID SIDE BAR, 18" WIDE (NEWTON INSTRUMENT COMPANY, INC.). TRAY SHALL BE INSTALLED AS SHOWN ON CONTRACT DOCUMENTS.

CROSSWISE RUNS SHALL BE COORDINATED WITH THE SPECIFIC EQUIPMENT THE TRAY SHALL SERVE.

ALL PROTRUDING CABLE TRAY SUPPORT RODS SHALL BE FILED SMOOTH WITH NO SHARP EDGES. ALL SUPPORT RODS SHALL BE CAD-PLATED FOR RUST RESISTANCE AND A MINIMUM 1/2" DIAMETER.

<u>SECTION 16113</u>

1.01. WIREWAYS

A. THE 4" X 4" WIREWAY LOCATED IN THE VERIZON WIRELESS EQUIPMENT ROOM SHALL BE INSTALLED ALONG THE TOP OF THE INTERIOR WALL AND SHALL HAVE ONE VERTICAL DROP CONNECTED TO PANELBOARD. MANUFACTURER SHALL BE HOFFMAN ENGINEERING COMPANY OR APPROVED EQUAL.

<u>SECTION 16123</u>

1.01. CONDUCTORS

A. ALL CONDUCTORS SHALL BE TYPE THWN (INT. APPLICATION) AND XHHW (EXT. APPLICATION), 75 DEGREE C, 600 VOLT INSULATION, SOFT ANNEALED STRANDED COPPER. #10 AWG AND SMALLER SHALL BE SPLICED USING ACCEPTABLE SOLDERLESS PRESSURE CONNECTORS. #8AWG AND LARGER SHALL BE SPLICED USING COMPRESSION SPLIT—BOLT TYPE CONNECTORS, #12 AWG SHALL BE THE MINIMUM SIZE CONDUCTOR FOR LINE VOLTAGE BRANCH CIRCUITS. REFER TO PANEL SCHEDULE FOR BRANCH CIRCUIT CONDUCTOR SIZE(S). CONDUCTORS SHALL BE COLOR CODED FOR CONSISTENT PHASE IDENTIFICATION:

208Y/120 VAC-3 PHASE,4 WIRE SYSTEM

INE COLOR

A BLACK
B RED
C BLUE
N CONTINUOUS WHITE

G CONTINUOUS GREEN

B. MINIMUM BENDING RADIUS FOR CONDUCTORS SHALL BE 12 TIMES
THE LARGEST DIAMETER OF BRANCH CIRCUIT CONDUCTOR.

SECTION 16130

A DA POYES

- A. FURNISH AND INSTALL OUTLET BOXES FOR ALL DEVICES, SWITCHES, RECEPTACLES, ETC.. BOXES TO BE ZINC COATED STEEL.
- B. FURNISH AND INSTALL PULL BOXES IN MAIN FEEDERS
 RUNS WHERE REQUIRED. PULL BOXES SHALL BE GALVANIZED
 STEEL WITH SCREW REMOVABLE COVERS, SIZE AND QUANTITY AS
 REQUIRED. PROVIDE WEATHERPROOF CONSTRUCTION IN WET LOCATIONS.

<u>SECTION 16140</u>

1.01. WIRING DEVICES

A. THE FOLLOWING LIST IS PROVIDED TO CONVEY THE QUALITY AND RATING OF WIRING DEVICES WHICH ARE TO BE INSTALLED. A COMPLETE LIST OF ALL DEVICES MUST BE SUBMITTED BEFORE INSTALLATION FOR APPROVAL.

15 MINUTE TIMER SWITCH - INTERMATIC #FF15M (INTERIOR LIGHTS)

DUPLEX RECEPTACLE - P&S #2091-S (GFCI) SPECIFICATION GRADE

SINGLE POLE SWITCH - P&S #5021-1 (20A-120V HARD USE)

SPECIFICATION GRADE

SPECIFICATION GRADE

B. PLATES — ALL PLATES USED SHALL BE CORROSION RESISTANT TYPE 304 STAINLESS STEEL. PLATES SHALL BE FROM SAME MANUFACTURER AS SWITCHES AND RECEPTACLES. PROVIDE WEATHERPROOF HOUSING FOR DEVICES LOCATED IN WET LOCATIONS.

DUPLEX RECEPTACLE - P&S #5342-1 (20A-120V HARD USE)

C. OTHER MANUFACTURERS OF THE SWITCHES, RECEPTACLES AND PLATES MAY BE SUBMITTED FOR APPROVAL BY THE ENGINEER.

SECTION 16170

1.01. DISCONNECT SWITCHES

A. FUSIBLE AND NON-FUSIBLE, 600V, HEAVY DUTY DISCONNECT SWITCHES SHALL BE AS MANUFACTURED BY SQUARE "D". PROVIDE FUSES AS CALLED FOR ON THE CONTRACT DRAWINGS. AMPERE RATING SHALL BE CONSISTENT WITH LOAD BEING SERVED. DISCONNECT SWITCH COVER SHALL BE MECHANICALLY INTERLOCKED TO PREVENT COVER FROM OPENING WHEN THE SWITCH IS IN THE "ON" POSITION. EXTERIOR APPLICATIONS SHALL BE NEMA 3R CONSTRUCTION WITH PADLOCK FEATURE.

<u>SECTION 16190</u>

1.01. SEISMIC RESTRAINT

A. ALL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH ZONE 2 SEISMIC REQUIREMENTS.

SECTION 16195

1.01. LABELING AND IDENTIFICATION NOMENCLATURE FOR ELECTRICAL EQUIPMENT

- A. CONTRACTOR SHALL FURNISH AND INSTALL NON-METALLIC ENGRAVED BACK-LIT NAMEPLATES ON ALL PANELS AND MAJOR ITEMS OF ELECTRICAL EQUIPMENT.
- B. LETTERS TO BE WHITE ON BLACK BACKGROUND WITH LETTERS 1-1/2 INCH HIGH WITH 1/4 INCH MARGIN.
- C. IDENTIFICATION NOMENCLATURE SHALL BE IN ACCORDANCE WITH BELL ATLANTIC MOBILE.

(FOR EXAMPLE: "MDP-5", ETC.).

TO BE PLASTIC ENGRAVED, RED WITH WHITE LETTERS.

E. ALL RECEPTACLES, SWITCHES, DISCONNECT SWITCHES, ETC. SHALL BE LABELED WITH THE CORRECT BRANCH CIRCUIT NUMBER SERVED BY MEANS OF PERMANENT PRESSED TYPE BLACK 1/4" TRANSFER LETTERING.

SHOWING VOLTAGE KVA/KW RATING, # PHASE AND # OF WIRES. PLATE

PROVIDE NAMEPLATE FOR PORTABLE ENGINE/GENERATOR CONNECTION

SECTION 16450

1.01. GROUNDING

- ALL NON-CURRENT CARRYING PARTS OF THE ELECTRICAL AND TELEPHONE CONDUIT SYSTEMS SHALL BE MECHANICALLY AND ELECTRICALLY CONNECTED TO PROVIDE AN INDEPENDENT RETURN PATH TO THE EQUIPMENT GROUNDING SOURCES.
- B. GROUNDING SYSTEM WILL BE IN ACCORDANCE WITH THE LATEST ACCEPTABLE EDITION OF THE NATIONAL ELECTRICAL CODE AND REQUIREMENTS PER LOCAL INSPECTOR HAVING JURISDICTION.
- C. GROUNDING OF PANELBOARDS:
 - PANELBOARD SHALL BE GROUNDED BY TERMINATING THE PANELBOARD FEEDER'S EQUIPMENT GROUND CONDUCTOR TO THE EQUIPMENT GROUND BAR KIT(S) LUGGED TO THE CABINET. ENSURE THAT THE SURFACE BETWEEN THE KIT AND CABINET ARE BARE METAL TO BARE METAL. PRIME AND PAINT OVER TO PREVENT CORROSION.
 - 2. CONDUIT(S) TERMINATING INTO THE PANELBOARD SHALL HAVE GROUNDING TYPE BUSHINGS. THE BUSHINGS SHALL BE BONDED TOGETHER WITH BARE #10 AWG COPPER CONDUCTOR WHICH IN TURN IS TERMINATED INTO THE PANELBOARD'S EQUIPMENT GROUND BAR KIT(S).
- D. EQUIPMENT GROUNDING CONDUCTOR:
 - . EACH EQUIPMENT GROUND CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. ARTICLE 250-122.
 - THE MINIMUM SIZE OF EQUIPMENT GROUND CONDUCTOR SHALL BE NO. 12 AWG COPPER.
 - 3. REFER TO PANEL SCHEDULE "BRANCH CIRCUIT" DATA FOR EQUIPMENT GROUND CONDUCTOR SIZE FOR EACH BRANCH
 - 4. EACH FEEDER OR BRANCH CIRCUIT SHALL HAVE EQUIPMENT GROUND CONDUCTOR(S) INSTALLED IN THE SAME RACEWAY(S).
- E. CELLULAR GROUNDING SYSTEM:

CONTRACTOR SHALL PROVIDE A CELLULAR GROUNDING SYSTEM WITH THE MAXIMUM AC RESISTANCE TO GROUND OF 5 OHM BETWEEN ANY POINT ON THE GROUNDING SYSTEM AS MEASURED BY 3-POINT GROUNDING TEST. (REFER TO SECTION 16960).

PROVIDE THE CELLULAR GROUNDING SYSTEM AS SPECIFIED ON DRAWINGS, INCLUDING, BUT NOT LIMITED TO:

- 1. GROUND BARS
- INTERIOR GROUND RING
 EXTERIOR GROUNDING (WHERE REQUIRED DUE TO MEASURED AC RESISTANCE GREATER THAN SPECIFIED.)
- 4. ANTENNA GROUND CONNECTIONS AND PLATES.
- CONTRACTOR, AFTER COMPLETION OF THE COMPLETE GROUNDING SYSTEM BUT PRIOR TO CONCEALMENT/BURIAL OF SAME, SHALL NOTIFY VERIZON WIRELESS PROJECT ENGINEER WHO WILL HAVE A DESIGN ENGINEER VISIT SITE AND MAKE A VISUAL INSPECTION OF THE GROUNDING GRID AND CONNECTIONS OF THE SYSTEM.

SECTION 16470

1.01. DISTRIBUTION EQUIPMENT

A. REFER TO CONTRACT DRAWINGS FOR DETAILS AND SCHEDULES.

SECTION 16477

1.01. FUSES

FUSES SHALL BE NONRENEWABLE TYPE AS MANUFACTURED BY "BUSSMAN" OR APPROVED EQUAL. FUSES RATED 1/10 AMPERE UP TO 600 AMPERES SHALL BE EQUIVALENT TO BUSSMAN TYPE LPN-RK (250V) UL CLASS RK1, LOW PEAK, DUAL ELEMENT, TIME-DELAY FUSES. FUSES SHALL HAVE SEPARATE SHORT CIRCUIT AND OVERLOAD ELEMENTS AND HAVE AN INTERRUPTING RATING OF 200 KAIC. UPON COMPLETION OF WORK PROVIDE ONE SPARE SET OF FUSES FOR EACH TYPE INSTALLED.

SECTION 16500

1.01. LIGHTING FIXTURES

A. REFER TO LIGHT FIXTURE SCHEDULE FOR REQUIREMENTS.

SECTION 16700

1.01. BUILDING ALARMS (SIGNAL COMMUNICATIONS)

- A. ALARM BOX SHALL BE 12"W X 12"H X 6"D NEMA 1 ENCLOSURE, MCKINSTRY #30-12126LP WITH ACCESSORIES:
 - "T" HANDLE LATCH KIT
 - 14 GAUGE STEEL PANEL, PAINTED WHITE ENAMEL - (6) 1/2"-3/4" K.OS ON EACH SIDE/TOP/BOTTOM WALLS
 - (2) 3/4" RUBBER GROMMETS AS SLEEVES.
 - PROVIDE WIRING SCHEMATIC IN REMOVABLE PLASTIC COVER, TAPED TO BACK SIDE OF HINGED DOOR.
- ALARM SENSORS' RELAY SHALL BE NORMALLY CLOSED. UPON ALARM CONDITION THE RELAY SHALL REVERSE STATE TO OPEN. CONFIRM INSTALLATION AND LOCATION REQUIREMENTS FOR BUILDING'S ALARM SENSORS.

ALARM SENSORS SHALL BE:

- . SMOKE DETECTORS (ASI ELECTRONICS #ESA5011): 120VAC IONIZATION TYPE WITH NO BATTERY BACK-UP.
- 2. DOOR CONTACT SENSOR (SENTROL #1085T): SPDT MAGNETIC FORM C CONTACT OPEN/CLOSE LOOP, MAX. 1" GAP.
- 3. LOW TEMPERATURE SENSOR (HONEYWELL #T631C1103): SPDT AIR SWITCH CONTROLLER COILED COPPER TUBE IN NEMA 1 ENCLOSURE. SET AT 50 DEGREES F.. MOUNT LAMINATED BACK—LIT NAMEPLATE WITH LEGIBLE DESCRIPTION "LOW TEMP 50 DEGREE F" BELOW SENSOR.
- 4. HIGH TEMPERATURE SENSOR (HONEYWELL #T631C1103): SPDT AIR SWITCH CONTROLLER COILED COPPER TUBE IN NEMA 1 ENCLOSURE. SET AT 80 DEGREES F.. MOUNT LAMINATED BACK-LIT NAMEPLATE WITH LEGIBLE DESCRIPTION "HI TEMP 80 DEGREES F" BELOW SENSOR.
- C. CONFIRM REQUIREMENTS FOR ALL BUILDING ALARM SENSORS INSTALLATION, AND LOCATION OF EACH SENSOR. ALARM WIRING SHALL BE ROUTED TO ALARM BOX AND SPADE CONNECTED TO RESPECTIVE TERMINAL BLOCK. EACH PAIR OF ALARM WIRING SHALL BE PERMANENTLY AND UNIQUELY TAGGED AT EACH TERMINAL STRIP LOCATION AND AT SPLICE/JUNCTION/BOXES/WIRING TROUGH.
- REFER TO "WIRING SCHEMATIC FOR ALARM SENSORS" ON DRAWINGS.

SECTION 16960

1.01. TESTS BY INDEPENDENT ELECTRICAL TESTING FIRM

- CONTRACTOR SHALL RETAIN THE SERVICES OF A LOCAL INDEPENDENT ELECTRICAL TESTING FIRM (WITH MINIMUM 5 YEARS COMMERCIAL EXPERIENCE IN THE ELECTRICAL TESTING INDUSTRY) AS SPECIFIED BY VERIZON WIRELESS TO PERFORM:
 - TEST 1: THERMAL OVERLOAD AND MAGNETIC TRIP TEST, AND CABLE INSULATION TEST FOR ALL CIRCUIT BREAKERS RATED 100 AMPS OR GREATER.
 - RESISTANCE TO GROUND TEST ON THE CELLULAR GROUNDING SYSTEM AS MEASURED BY THE 3-POINT

THE TESTING FIRM SHALL INCLUDE THE FOLLOWING INFORMATION WITH THE REPORT:

- 1. TESTING PROCEDURE INCLUDING THE MAKE AND MODEL OF TEST EQUIPMENT.
- 2. CERTIFICATION OF TESTING EQUIPMENT CALIBRATION
 WITHIN SIX (6) MONTHS OF DATE OF TESTING.
 INCLUDE CERTIFICATION LAB ADDRESS AND TELEPHONE
 NUMBER
- 3. GRAPHICAL DESCRIPTION OF TESTING METHOD ACTUALLY IMPLEMENTED.
- B. THESE TESTS SHALL BE PERFORMED IN THE PRESENCE AND TO THE SATISFACTION OF VERIZON WIRELESS CONSTRUCTION REPRESENTATIVE. TESTING DATA SHALL BE INITIALED AND DATED BY THE CONSTRUCTION AND INCLUDED WITH THE WRITTEN REPORT/ANALYSIS.
- C. THE CONTRACTOR SHALL FORWARD SIX (6) COPIES OF THE INDEPENDENT ELECTRICAL TESTING FIRM REPORT/ANALYSIS TO ENGINEER A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO THE JOB TURNOVER.
- D. CONTRACTOR TO PROVIDE A MINIMUM OF ONE (1) WEEK NOTICE TO OWNER AND ENGINEER FOR ALL TESTS REQUIRING

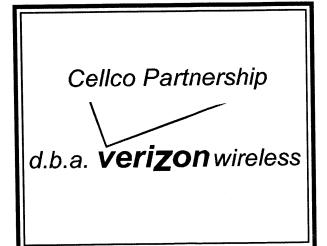
SECTION 16961

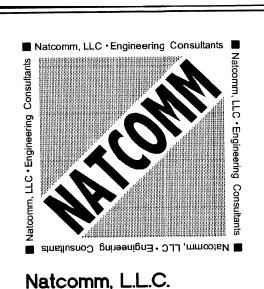
1.01. TESTS BY CONTRACTOR

- A. ALL TESTS AS REQUIRED UPON COMPLETION OF WORK, SHALL BE MADE BY THIS CONTRACTOR. THESE SHALL BE CONTINUITY AND INSULATION TESTS; TEST TO DETERMINE THE QUALITY OF MATERIALS, ETC. AND SHALL BE MADE IN ACCORDANCE WITH NEC RECOMMENDATIONS. ALL FEEDERS AND BRANCH CIRCUIT WIRING (EXCEPT CLASS 2 SIGNAL CIRCUITS) MUST BE TESTED FREE FROM SHORT CIRCUIT AND GROUND FAULT CONDITIONS AT 500V IN A REASONABLY DRY AMBIENT OF APPROXIMATELY 70 DEGREES F.
- CONTRACTOR SHALL PERFORM LOAD PHASE BALANCING TESTS.
 CIRCUITS SHALL BE SO CONNECTED TO THE PANELBOARDS SUCH
 THAT THE NEW LOAD IS DISTRIBUTED AS EQUALLY AS POSSIBLE
 BETWEEN EACH LOAD AND NEUTRAL. 10% SHALL BE CONSIDERED
 AS A REASONABLE AND ACCEPTABLE ALLOWANCE. BRANCH
 CIRCUITS SHALL BE BALANCED ON THEIR OWN PANELBOARDS;
 FEEDER LOADS SHALL, IN TURN, BE BALANCED ON THE SERVICE
 EQUIPMENT. REASONABLE LOAD TEST SHALL BE ARRANGED TO
 VERIFY LOAD BALANCE IF REQUESTED BY THE ENGINEER.
- ALL TESTS, UPON REQUEST, BE REPEATED IN THE PRESENCE OF VERIZON WIRELESS REPRESENTATIVE. ALL TESTS SHALL BE DOCUMENTED AND TURNED OVER TO VERIZON WIRELESS SHALL HAVE THE AUTHORITY TO STOP ANY OF THE WORK NOT BEING PROPERLY INSTALLED. ALL SUCH DETECTED WORK SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER AND THE TESTS SHALL BE REPEATED.

REVISIONS

00 08/19/05 BUILDING PERMIT





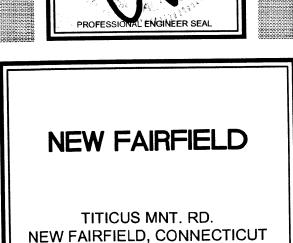
Tel. (203) 488-0580
Fax (203) 488-8587

Consulting Engineers •Project Management
Civil • Structural • Mechanical • Electrical

63-2 North Branford Roa

Branford, Connecticut 06405





PROJECT NO: 05073

DRAWN BY: DMD

CHECKED BY: FRC

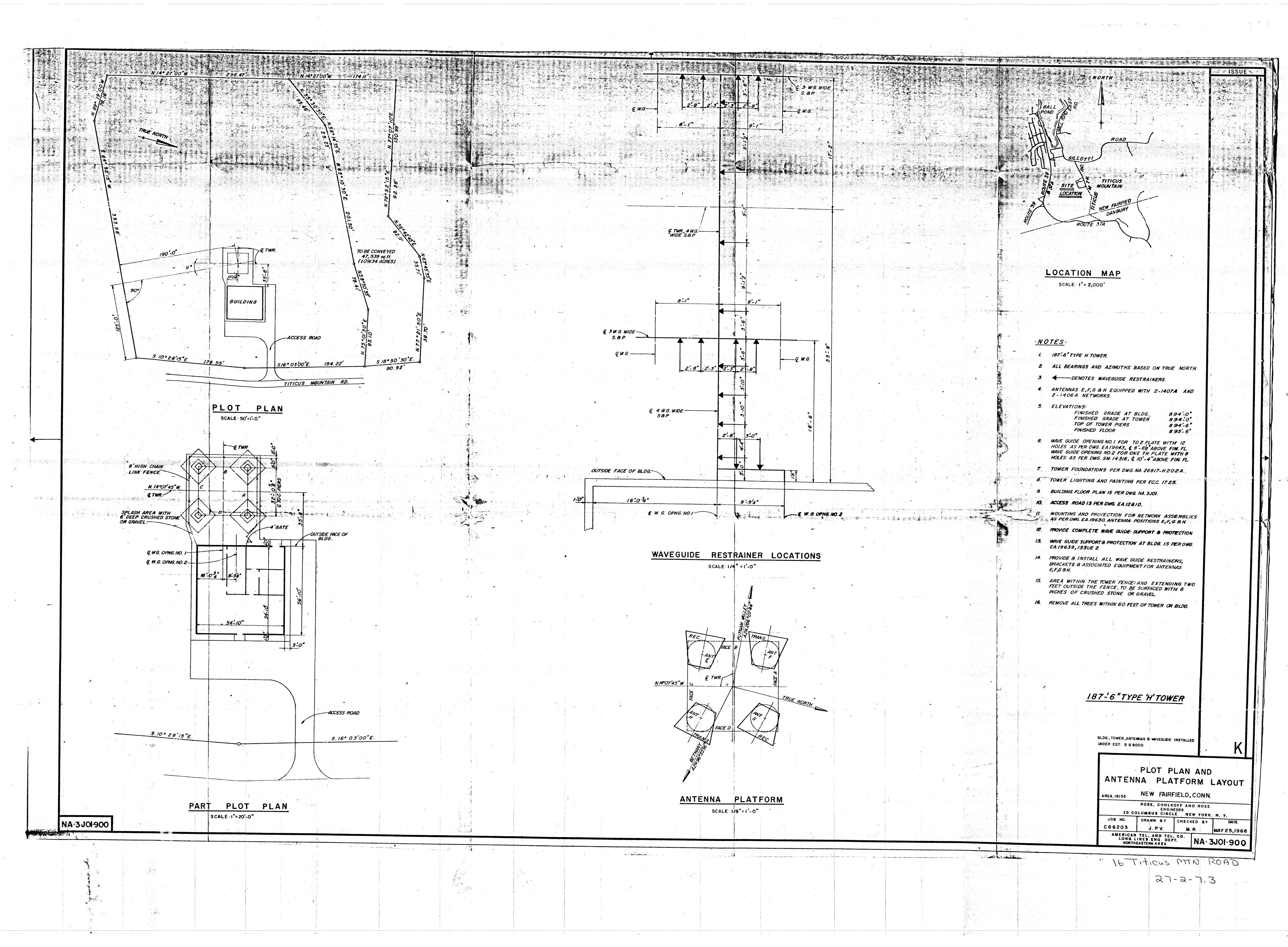
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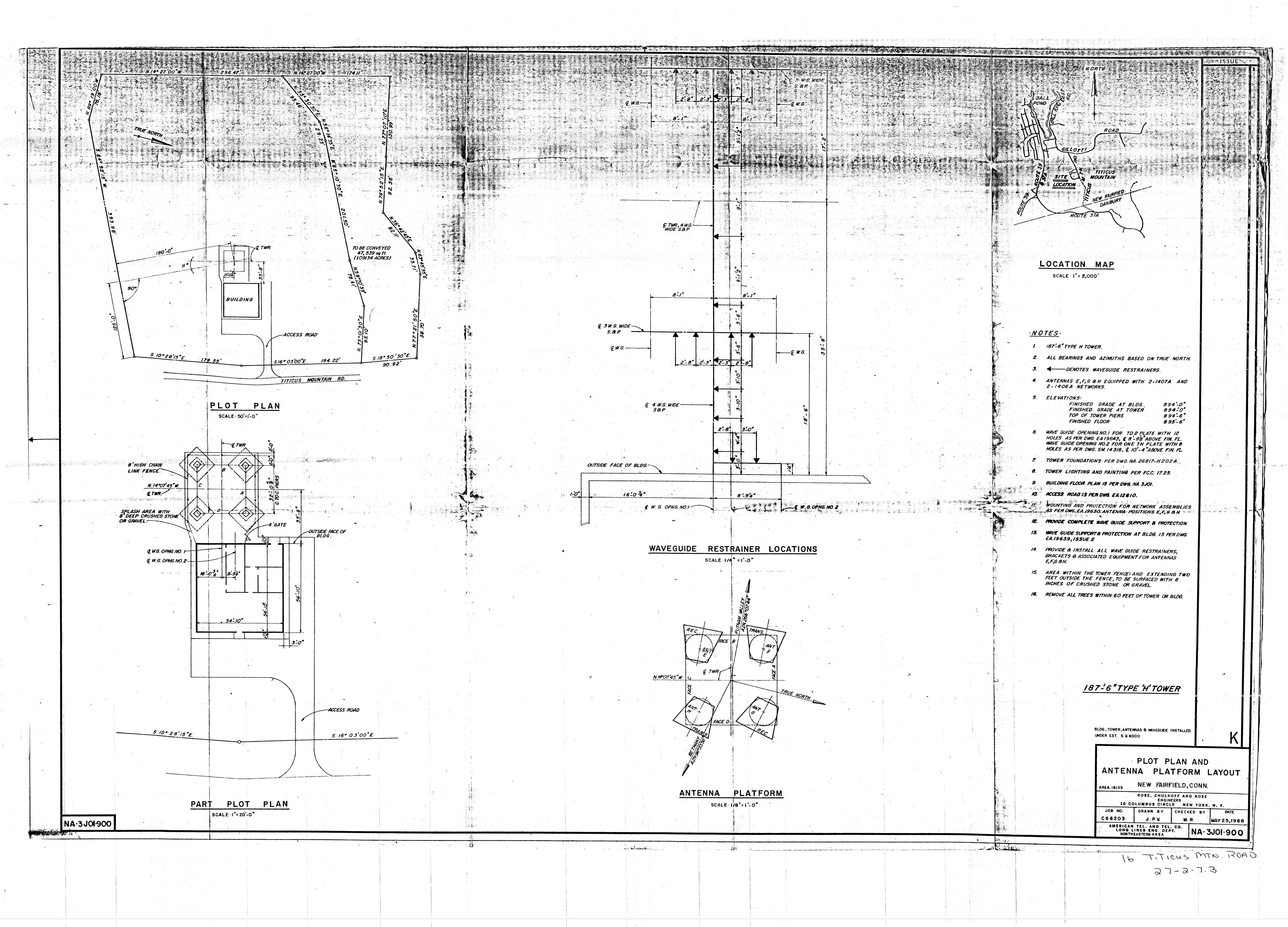
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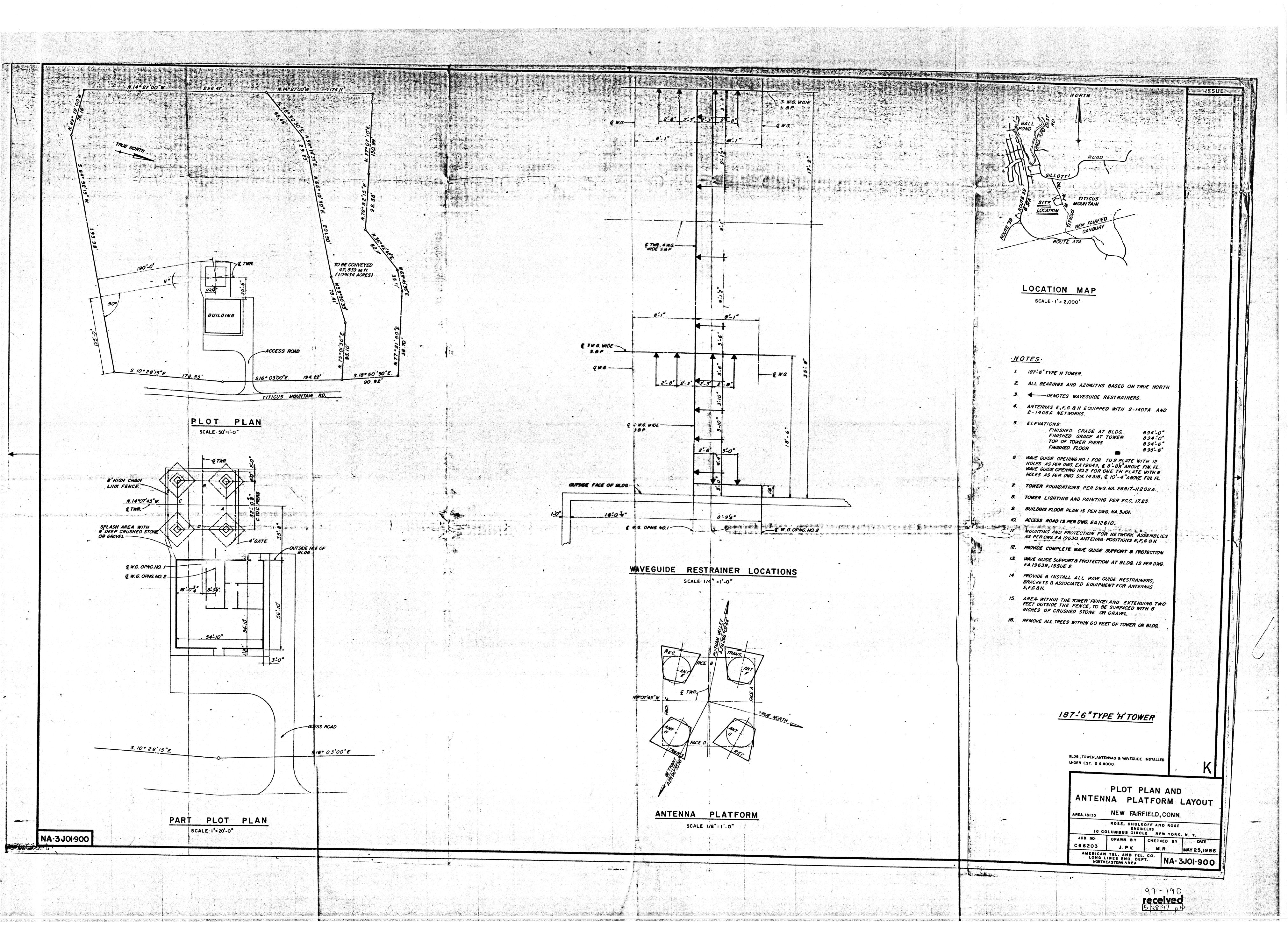
ELECTRICAL SPECIFICATIONS

DWG. 14 OF 14

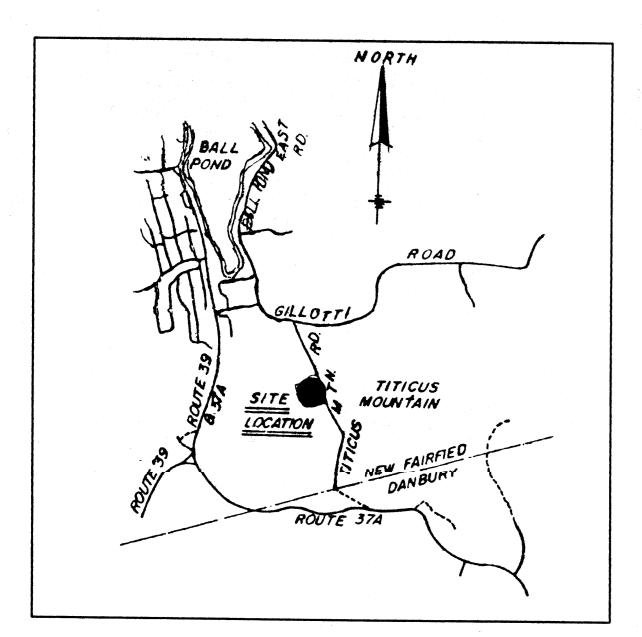
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VICINITY MAP



SITE MAP

NEXTEL COMMUNICATIONS

One North Broadway, 2nd Floor White Plains, NY 10601

UNMANNED WIRELESS COMMUNICATIONS SITE Site No. CT-0066 - NEW FAIRFIELD 6 TITICUS MOUNTAIN ROAD, NEW FAIRFIELD, CT

SITE LOCATION PLAN SCALE: 1" = 50' - 0"



SITE INFORMATION/CODE ANALYSIS

LATITUDE: 73° 30' 56" LONGITUDE: 41° 27' 04"

TOWN OF NEW FAIRFIELD

7.3

LOCATION: 16 TITICUS MOUNTAIN ROAD

NEW FAIRFIELD CT

OWNER: AT&T

268 WOLCOTT RD. WOLCOTT, CT. 06716 ATTN: MR. THOMAS C. FORD

HEIGHT OF EXISTING BUILDING: 1 STORY EXISTING BUILDING FOOTPRINT: APPROX. 3230 SQ.FT. EX. BLDG. OCCUPANCY GROUP: B (BUSINESS),

TELEPHONE EQUIPMENT SHELTER EX. BLDG. CONSTRUCTION CLASSIFICATION: 1A BUILDING IS NOT SPRINKLERED

PROPOSED CELL SITE OCCUPANCY GROUP: B ASSUMED CONSTRUCTION CLASSIFICATION: 2C 2HR FIRE SEPARATION BETWEEN NEXTEL EQUIPMENT ROOM

AND REMAINING AREA OF BUILDING AREA OF NEW WIRELESS COMMUNICATION ROOM: 200 SQ. FT. NEW WIRELESS COMMUNICATION ROOM TO BE UNOCCUPIED LOCATION OF NEW WIRELESS COMM. ROOM: GRADE LEVEL

LIST OF DRAWINGS

DRAWING No. **DESCRIPTION** COVER SHEET PLANS AND DETAILS ELEVATION AND DETAILS GENERAL NOTES & SPECIFICATIONS FLOOR, REFLECTED CEILING AND GROUNDING PLANS & DETAILS E-2LIGHTING PLAN, PANELBOARD

SCHEDULES AND GENERAL NOTES, MECHANICAL LAYOUT & SPECIFICATIONS

TJA

15 APR 97

EE4444

EIA DRAWING NO.

ARCHITECTURE • ENGINEERING • CONSTRUCTION

ISSUED FOR CLIENT REVIEW

115 Evergreen Pl. • E.Orange, NJ 07018 • (201)672-5100

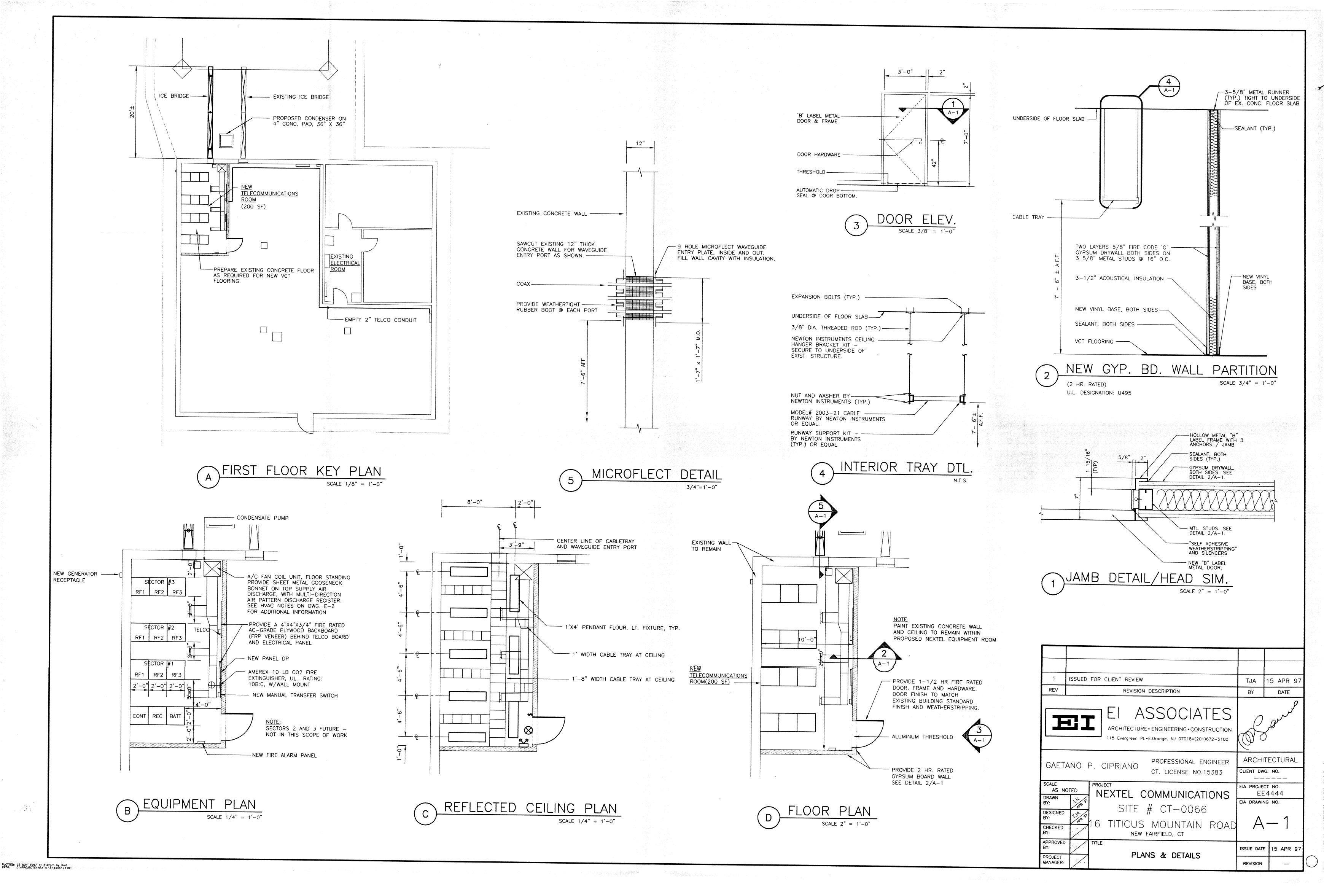
ARCHITECTURAL PROFESSIONAL ENGINEER GAETANO P. CIPRIANO CT. LICENSE NO.15383 CLIENT DWG. NO. EIA PROJECT NO.

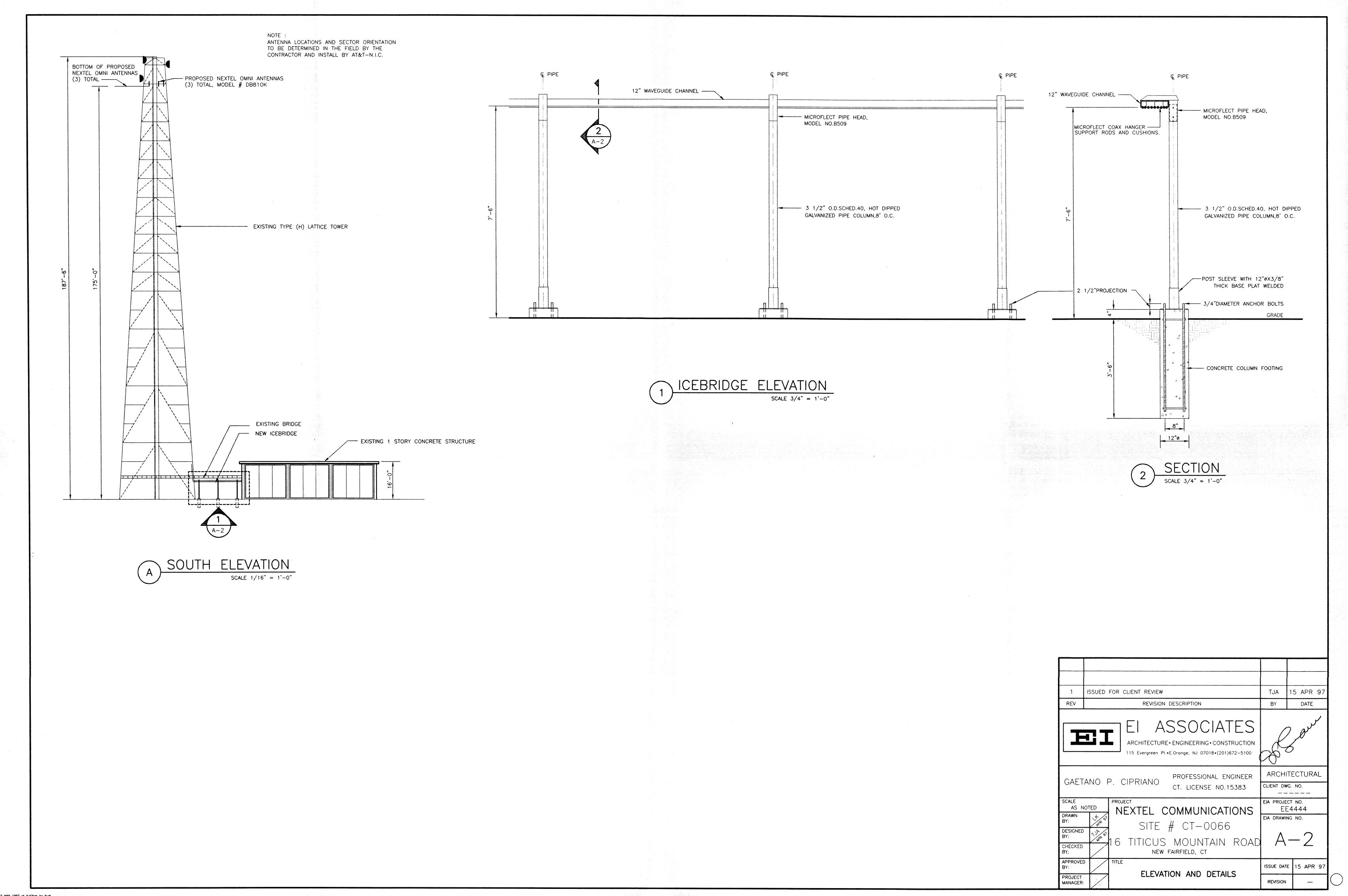
NEXTEL COMMUNICATIONS SITE # CT-0066 DESIGNED 6 TITICUS MOUNTAIN ROAD

REVISION DESCRIPTION

NEW FAIRFIELD, CT

APPROVED ISSUE DATE 15 APR 9 COVER SHEET REVISION





PLOTTED: 22 MAY 1997 at 6:43pm by Kurt PATH G. PROJECTS NEXTEL EE4444 21102

<u>ARCHITECTURAL</u>

- 01000 GENERAL NOTES A. ALL WORK SHALL COMPLY WITH RULES AND REGULATIONS OF
- ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION. B. ALL DIMENSIONS SHALL BE VERIFIED AT THE JOB BY THE CONTRACTOR AND EACH SUB-CONTRACTOR. OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK
- PATCH ALL EXISTING WORK, TO REMAIN, TO MATCH ADJACENT CONDITIONS WHERE REQUIRED DUE TO
- D. IN GENERAL, NEW MATERIALS AND MATERIALS FOR REPAIR CONDITIONS SHALL MATCH SIMILAR ITEMS IN QUALITY, DETAIL, PROFILE AND FINISH AS THOSE ALREADY BUILT
- CONTRACTOR SHALL REFER QUESTIONS ON MATERIALS. FINISHES, LABOR AND/OR PERFORMANCE STANDARDS NOT
- DAMAGED UTILITIES AND IMPROVEMENTS SHALL BE REPAIRED WITH NO ADDITIONAL COST TO OWNER AND TO NEXTELS' SATISFACTION.
- G. ALL CONTRACTORS TO PROVIDE ALL SAFETY MEASURES REQUIRED TO PROVIDE A SECURE SITE DURING CONSTRUCTION. ALL REQUIRED EXITWAYS FOR PROTECTION OF LIFE AND PROPERTY ARE TO BE MAINTAINED.
- H. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND FAMILIARIZING HIMSELF WITH ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
- CONTRACTOR SHALL COORDINATE HIS WORK WITH NEXTEL SO THAT THERE IS NO INTERFERENCE WITH OWNER'S
- ANY CONFLICTS WITH NEW CONSTRUCTION AND EXISTING CONDITIONS OR EQUIPMENT, ETC. ARE TO BE BROUGHT TO THE ATTENTION OF NEXTEL PRIOR TO PROCEEDING WITH

02110 - GENERAL DEMOLITION NOTES

- A. PROVIDE ALL NECESSARY DEMOLITION FOR ALTERATION AS INDICATED ON THIS AND OTHER APPLICABLE DRAWINGS, AND AS MAY OTHERWISE BE NEEDED.
- PROVIDE AND MAINTAIN ALL TEMPORARY BRACING REQUIRED TO AVOID COLLAPSE AND PREVENT DAMAGE DURING
- C. COORDINATE ALL DEMOLITION AND CONSTRUCTION WORK
- D. CONTRACTOR SHALL PROTECT ALL EXISTING ROOMS AND WORK AREA FROM CONSTRUCTION DIRT AND DUST, WATER AND ALL OTHER TYPES OF DAMAGES DUE TO DEMOLITION AND CONSTRUCTION PROCESSES.
- EXISTING DOORS AND CABINETS WHICH ARE TO BE REMOVED ARE TO BE TAKEN TO THE STORAGE UNIT AS DIRECTED BY THE OWNER.

02115 - CUTTING AND PATCHING GENERAL

- WORK INCLUDED UNDER THIS SECTION IS SUBJECT TO THE AGREEMENT, GENERAL CONDITIONS AND CONTRACT DRAWINGS, ALL OF WHICH ARE HEREBY MADE A PART OF THIS SECTION.
- PROVIDE ALL MATERIALS, LABOR AND SUPERVISION, EQUIPMENT AND APPLIANCES REQUIRED TO COMPLETE WORK OF THIS SECTION INCLUDING BUT NOT NECESSARILY LIMITED TO THE FOLLOWING:
- A. WORK AS INDICATED ON THE DRAWINGS & SPECIFICATIONS.
- MATERIALS FOR REPLACEMENT, REPAIRING, PATCHING, RESTORATION, & SIMILAR WORK SHALL CONFORM TO APPLICABLE SPECIFICATIONS FOR NEW MATERIALS OR WORK, WHERE MATERIALS AND/OR INSTALLATIONS ARE NOT COVERED BY THE SPECIFICATIONS, SUCH MATERIALS SHALL MATCH EXISTING TO THE GREATEST EXTENT POSSIBLE. ALL EXCESS MATERIALS RESULTING FROM CUTTING & REMOVAL WORK SHALL BE REMOVED FROM THE JOB SITE IN AN APPROVED MANNER.

III. EXECUTION

- PRIOR TO CUTTING OR UNCOVERING WORK, PROVIDE ALL SHORING BRACING & SUPPORTS AS REQUIRED TO MAINTAIN THE STRUCTURA INTEGRITY OF THE PROJECT. PRIOR TO RESTORING WORK, PROPERLY PREPARE EXISTING SURFACES TO RECEIVE NEW MATERIALS SUCH AS TO PROVIDE A PROPER BOND OR JOINING, TERPOVIDED WIESDEVER FROM WIND AND STORM DAMAGE SHALL BE PROVIDED WHENEVER OPENINGS ARE CUT IN EXTERIOR OF BUILDING.
- B. CUTTING AND DRILLING CONTRACTOR SHALL REMOVE ALL MATERIAL DESIGNATED FOR REMOVAL AS NECESSARY FOR INSTALLATION OF THE NEW WORK, CUTTING SHALL BE PERFORMED BY HAND OR SMALL POWER TOOLS; HOLES AND SLOTS O SIZE REQUIRED, WITH MINIMUM DISTURBANCE OF ADJACENT WORK. OPENINGS SHALL BE COVERED TEMPORARILY WHEN NOT IN USE AND PATCHED AS SOON AS WORK IS INSTALLED. THE LOF GAS FIRED, AND OR DIESEL EQUIPMENT WILL NOT BE PERMITTED THE USE OF ELECTRICAL EQUIPMENT WILL BE PERMITTED ONLY WITH THE PRIOR APPROVAL OF THE OWNER.
- PATCHING AND REPAIRS EXISTING WORK SHALL BE CUT, ALTERED, REMOVED, TEMPORARILY REMOVED AND REPLACED, OR RELOCATED AS REQUIRED FOR THE PERFORMANCE OF THE WORK INDICATED ON THE DRAWINGS. COORDINATE ALL PATCHING AND REPAIR WORK BEFORE BEGINNING WORK. ALTERATION WORK WILL REQUIRE REPAIRING AND REARRANGEMENT OF EXISTING WORK. THE MATERIALS AND METHODS OF APPLICATION FOR NEW WORK AND FOR RESTORING OR REFINISHING EXISTING WORK SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE SPECIFICATIONS EXCEPT THAT MATERIALS AND WORKMANSHIP NOT COVERED IN THE COMPLETED WORK SHALL CONFORM TO SIMILAR MATERIALS AND WORKMANSHIP EXISTING IN OR ADJACENT TO THE SPACE IN WHICH ALTERATIONS ARE TO BE MADE.

05000 - METALS

- ANTENNA SUPPORT STEEL A. UNLESS OTHERWISE NOTED:
 - ALL SHIMS, SHAPES AND PLATES SHALL CONFORM TO
 - ALL PIPES SHALL BE ASTM A53, TYPE E OR S, GRADE B (Fy=35 KSI).
- B. GALVANIZING
- ALL STEEL AND CONNECTION MATERIAL TO BE EXPOSED TO WEATHER (ANTENNAE AND CABLE SUPPORTS) SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AND A153. TOUCH-UP FIELD WELD AREAS WITH ZING RICH PAINT. PROVIDE TNEMEC 90-93 OR EQUAL.

05500 - MISCELLANEOUS METALS HOLLOW METAL WORK

I. GENERAL

- A. SUBMITTALS
 - SHOP DRAWINGS: SUBMIT COMPLETE SHOP DRAWINGS INCLUDING SCHEDULES, CONSTRUCTION DETAILS, METHOD OF ANCHORAGE AND GAUGES OF METAL FOR APPROVAL.

II. MATERIALS

PLOTTED: 22 MAY 1997 at 6:44pm by Kurt PATH: G:\PROJECTS\NEXTEL\EE4444\21103

- DOORS SHALL BE 1-3/4" THICK, 1 1/2 HR. "B" LABEL FABRICATED FROM 18 GAUGE STEEL SHEETS FOR INTERIOR DOORS. CONSTRUCTION SHALL CONFORM TO STEEL DOOR INSTITUTE STANDARD SDI-100.
- THE INTERIOR OF THE DOORS SHALL BE COMPLETELY FILLED WITH A RIGID URETHANE CORE FOAMED IN PLACE AND CHEMICALLY BONDED TO ALL INTERIOR SURFACES. URETHANE FOAM SHALL BE SELF-BONDING, SELF-HARDENING AND SELF-EXTINGUISHING TYPE.
- 3. DOORS SHALL HAVE FLUSH SEAMLESS FACE SHEETS WITH VERTICAL EDGE JOINT BETWEEN FACE SHEETS COMPLETELY FILLED AND GROUND SMOOTH TO PROVIDE A SEAMLESS APPEARANCE
- 4. TOP AND BOTTOM OF DOORS SHALL BE CLOSED FLUSH BY 16 GAUGE STEEL CHANNELS.

- DOORS SHALL BE MORTISED FOR 4-1/2" TEMPLATE TYPE HINGES. HINGE REINFORCEMENT SHALL BE 7 GAUGE STEEL DRILLED AND TAPPED BY THE DOOR MANUFACTURER. OTHER HARDWARE REINFORCEMENT AND PREPARATION SHALL COMPLY WITH STEEL DOOR INSTITUTE STANDARD SDI-107.
- DOORS PREPARED FOR LITES SHALL HAVE THE OPENINGS FRAMED AND SECURELY ATTACHED. GLAZING BEADS SHALL
- 7. THE PRODUCT OF THE CECO COMPANY AND PIONEER INDUSTRIES WHICH CONFORM TO THESE SPECIFICATIONS ARE APPROVED FOR USE. OTHERS MAY BE USED IF APPROVED EQUAL.
- 8. LOCKSET SHALL BE SIMPLEX 1000 WITH STRIKE, SATIN FINISH (NO SUBSTITUTES).

- DRYWALL TYPE: A. FRAMES SHALL BE CONSTRUCTED TO CONFORM TO STEEL DOOR INSTITUTE STANDARD SDI-100.
- FRAMES SHALL BE KNOCKED-DOWN FIELD-ASSEMBLED TYPE. FRAME HEAD AND JAMB MEMBERS SHALL HAVE DIE-CUT, MITERED CORNERS AND "LOCK-TAB" CONSTRUCTION.
- FRAMES SHALL HAVE 5/8" HIGH INTEGRAL STOPS AND 2" FACES, UNLESS OTHERWISE DETAILED.
- HINGE REINFORCEMENT SHALL BE 7 GAUGE STEEL UNIVERSAL TYPE STRIKE REINFORCEMENT SHALL BE 12 GAUGE STEEL. JAMBS SHALL BE MORTISED FOR 4-1/2" TEMPLATE HINGES AND FOR UNIVERSAL LOCK STRIKE PER ANSI A 115.1 AND .2. ALL REIN-FORCEMENT SHALL BE DRILLED AND TAPPED BY THE FRAME MANUFACTURER PER HARDWARE TEMPLATES. HEADS SHALL BE MORTISED AND REINFORCED FOR CLOSERS PER HARDWARE TEMPLATES, WHEN REQUIRED

ANCHORS

- 1. JAMB ANCHOR: FURNISH JAMB ANCHORS AS REQUIRED TO SECURE FRAMES TO ADJACENT CONSTRUCTION, FORMED OF
- FLOOR ANCHOR: PROVIDE FLOOR ANCHORS FOR EACH JAMB AND MULLION WHICH EXTENDS TO FLOOR, FORMED OF NOT LESS THAN 14 GAUGE STEEL SHEET.

- APPLY PRETREATMENT TO CLEANED METAL SURFACES, USING COLD PHOSPHATE SOLUTION (SSPC-PT2), HOT PHOSPHATE SOLUTION (SSPC-PT4) OR BASIC ZINC CHROMATE-VINYL BUTYL SOLUTION (SSPC-PT3).
- 2. APPLY SHOP COAT OF RUST INHIBITING PRIME PAINT WITHIN TIME LIMITS RECOMMENDED BY PRETREATMENT MANUFACTURER. APPLY A SMOOTH COAT OF EVEN CONSISTENCY TO PROVIDE A UNIFORM DRY FILM THICKNESS OF NOT LESS THAN 2.0 MILS.

- 1. FINAL ADJUSTMENTS: CHECK AND READJUST OPERATING FINISH HARDWARE ITEMS IN HOLLOW METAL WORK JUST PRIOR TO FINAL INSPECTION. LEAVE WORK IN COMPLETE AND PROPER OPERATING CONDITION. REMOVE AND REPLACE DEFECTIVE WORK, INCLUDING DOORS OR FRAMES WHICH ARE WARPED, BOWED OR OTHERWISE UNACCEPTABLE
- 2. PRIME COAT TOUCH-UP: IMMEDIATELY AFTER ERECTION, SAND SMOOTH ANY RUSTED OR DAMAGED AREAS OF PRIME COAT AND APPLY TOUCH-UP COMPATIBLE AIR-DRYING

ALL FIRESTOP MATERIALS AND ASSEMBLIES SHALL BE PROVIDED BY '3M FIRE PROTECTION PRODUCTS' OR APPROVED EQUAL. MANUFACTURER SHALL DETERMINE APPROPRIATE SYSTEM PER INDIVIDUAL APPLICATION SO AS TO MAINTAIN REQUIRED FIRE

07900 - CAULKING AND SEALING I. GENERAL

- A. DOCUMENTS
- WORK INCLUDED UNDER THIS SECTION IS SUBJECT TO THE AGREEMENT, GENERAL CONDITIONS AND CONTRACT DRAWINGS, ALL OF WHICH ARE HEREBY MADE A PART OF THIS SECTION.
- PROVIDE ALL MATERIALS, LABOR AND SUPERVISION, EQUIPMENT AND APPLIANCES REQUIRED TO COMPLETE WORK OF THIS SECTION NCLUDING BUT NOT NECESSARILY LIMITED TO THE FOLLOWIN INTERIOR JOINTS
- A. EXPANSION AND CONTROL JOINTS SEALANT #1 B. OTHER INTERIOR JOINTS AS INDICATED ON THE
- SUBMIT SAMPLES OF ALL SEALANT MATERIALS FOR APPROVAL BY OWNER'S REPRESENTATIVE, ACCOMPANIED BY CERTIFICATE FOR EACH TYPE SHOWING COMPLIANCE WITH

DRAWINGS - SEALANT #2.

- SUBMIT COLOR CHARTS (OR SAMPLES) FOR COLOR
- SUBMIT SCHEDULE, INDICATING USE LOCATIONS OF EACH SEALANT TYPE SUBMITTED, FOR APPROVAL.

II. MATERIALS

- A. THE SEALANTS LISTED BELOW ARE THE PRODUCTS OF TREMCO INCORPORATED AND THE SIKA CORPORATION AND ARE GIVEN AS REFERENCE STANDARDS FOR THE WORK OF THIS SECTION. EQUAL PRODUCTS BY THE PECORA CORPORATION, GENERAL ELECTRIC COMPANY - SILICONE PRODUCTS DIMSION AND DOW-CORNING WILL BE ACCEPTABLE, SUBJECT TO THESE SPECIFICATIONS. SEALANT #1 SHALL BE A ONE-PART POLYURETHANE SEALANT
 - ETING FEDERAL SPECIFICATION IT-S-00230C, CLASS A. TYPE II, SUCH AS SIKAFLEX-LA. SEALANT #2 SHALL BE A ONE-PART ACRYLIC LATEX
- SEALANT SUCH AS TREMCO ACRYLIC LATEX CAULK.
- B. PRIMER FOR SEALANTS SHALL BE AS RECOMMENDED BY SEALANT JOINT FILLER FOR SEALANT SHALL BE A CLOSED CELL,
- NON-ABSORBENT, NON-STAINING MATERIAL SUCH AS ETHAFOAM AS MANUFACTURED BY DOW-CORNING. BONDBREAKERS SHALL BE AS RECOMMENDED BY SEALANT
- MANUFACTURER COLORS FOR SEALANTS SHALL BE AS SELECTED BY THE OWNER
- FROM MANUFACTURERS COLOR CHART AND/OR COLORS SHALL MATCH ADJACENT SURFACES. F. DELIVERY AND STORAGE
- MATERIALS SHALL BE DELIVERED TO THE JOB IN SEALED CONTAINERS WITH MANUFACTURER'S ORIGINAL LABELS
- MATERIALS SHALL BE STORED UNDER THE ENVIRONMENTAL CONDITIONS RECOMMENDED BY THE MANUFACTURER.

III. EXECUTION A. SURFACE PREPARATION

- JOINTS AND SURFACES WHICH ARE TO BE CAULKED OR SEALED SHALL BE CLEAN, DRY AND FREE OF DUST, LOOSE MORTAR AND OTHER FOREIGN MATERIALS.
- B. APPLICATION INSTALL JOINT BACKING WITH A BLUNT INSTRUMENT SO AS NOT TO PUNCTURE THE SURFACE SKIN. SIZE OF JOINT BACKING SHOULD BE DETERMINED BY TAKING THE JOINT WIDTH AND ADDING 25% TO ASSURE PROPER COMPRESSION OF BACKER ROD.
 - APPLY SEALANT WITH A CAULKING GUN, USING PROPER SIZED NOZZLES. USE SUFFICIENT PRESSURE TO PROPERLY FILL THE JOINTS WITH SEALANT TO THE BACK-UP MATERIAL. PROVIDE MASKING TAPE FOR EXACT BEAD LINES. APPLY TAPE AFTER SURFACE CONDITIONER IS
- AFTER JOINTS HAVE BEEN COMPLETELY FILLED, THEY SHALL BE NEATLY TOOLED TO ELIMINATE AIR POCKETS OR VOIDS, AND TO PROVIDE A SMOOTH, NEAT APPEARING FINISH IN INTIMATE CONTACT WITH INTERFACING SURFACES. AFTER TOOLING, SURFACE OF SEALANT SHAL BE FREE OF RIDGES, WRINKLES, SAGS, AIR POCKETS AND
- IMMEDIATELY CLEAN ADJACENT MATERIALS WHICH HAVE BEEN SOILED; LEAVE WORK IN A NEAT, CLEAN CONDITION.
- DO NOT APPLY SEALANT WHEN SURFACE TEMPERATURE OF MATERIALS IS BELOW OR ABOVE THAT RECOMMENDED BY THE

WORKMANSHIP SHALL BE IN STRICT COMPLIANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER OF THE MATERIALS. THE CONTRACTOR SHALL BE PREPARED TO SHOW EVIDENCE OF

ORKMANSHIP OF JOBS AT LEAST THREE YEARS OLD.

- 08735 WEATHERSTRIPPING, SEALS & THRESHOLDS
- WORK INCLUDED UNDER THIS SECTION IS SUBJECT TO THE
- AGREEMENT, GENERAL CONDITIONS AND CONTRACT DRAWINGS, ALL OF WHICH ARE HEREBY MADE A PART OF THIS SECTION.
- PROVIDE ALL MATERIAL, LABOR AND SUPERVISION, EQUIPMENT AND APPLIANCES REQUIRED TO COMPLETE WORK OF THIS SECTION INCLUDING BUT NOT NECESSARILY LIMITED TO THE FOLLOWING:
- THRESHOLDS
- AUTOMATIC DOOR BOTTOMS

DOOR SILENCERS

- THIS SPECIFICATION IS BASED UPON THE PRODUCTS OF PEMK MANUFACTURING COMPANY, UNLESS OTHERWISE NOTED. SIMILAR PRODUCTS BY REESE ENTERPRISES, INC., OR ZERO WILL ALSO BE ACCEPTABLE SUBJECT TO THESE SPECIFICATION REQUIREMENTS.
- A. WEATHERSTRIPPING AT HEAD AND JAMBS OF HOLLOW METAL DOORS, PEMKO MODEL #319C, CLEAR ANODIZED ALUMINUM FINISH.
- B. THRESHOLDS, ZERO MODEL #1675A, ALUMINUM.
- AUTOMATIC DOOR BOTTOM, PEMKO MODEL #411AR, AT NEW DOOR INTO TELECOMMUNICATION ROOM. D. DOOR SILENCERS, HAGER HINGE COMPANY, MODEL #3070,
- A. CAREFULLY COORDINATE THE WORK OF THIS SECTION WITH HOLLOW

B. INSTALL COMPONENTS IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

09250 - GYPSUM DRYWALL GENERAL

A. DOCUMENTS

- WORK INCLUDED UNDER THIS SECTION IS SUBJECT TO THE AGREEMENT GENERAL CONDITIONS, AND CONTRACT DRAWINGS, ALL OF WHICH ARE HEREBY MADE A PART OF THIS SECTION.
- PROVIDE ALL MATERIALS, LABOR AND SUPERVISION, EQUIPMENT AND APPLIANCES REQUIRED TO COMPLETE WORK OF THIS SECTION INCLUDING BUT NOT NECESSARILY LIMITED TO THE FOLLOWING:
- GYPSUM WALLBOARD.
- ACCESSORIES.
- RELATED WORK SPECIFIED ELSEWHERE

MATERIALS A. PRODUCTS

- STANDARD GYPSUM WALL BOARD, FIRE CODE 'C', 5/8" THICK X 4'-0" WIDTH X LENGTH REQUIRED TO ELIMINATE HORIZONTAL JOINTS (MAXIMUM 14'-0"). BOARDS SHALL HAVE TAPERED, BEVELED BEVELED EDGES. ASTM COMPLIANCE C-36.
- - STUDS AND RUNNERS: GALVANIZED STEEL, 1" 'Z' FURRING STRIPS, 1-5/8" AND 3-5/8" WIDE ASTM COMPLIANCE C 645. (SEE PLAN FOR
 - B. CEILING RUNNERS AND HANGERS: GALVANIZED STEEL, 1-1/2" RUNNERS AND 1/2" (25 MSG) RESILIENT FURRING CHANNELS.
 - C. SCREWS: STEEL, CORROSION RESISTANT, BUGLE HEAD, LENGTH AS RECOMMENDED BY WALL BOARD MANUFACTURER
 - FOR MATERIALS SPECIFIED. ASTM COMPLIANCE C 646. TAPE AND SPACKLING COMPOUND: USE WATER RESISTANT
 - JOINT COMPOUND.
- ACOUSTICAL INSULATION (09530): A. INSTALL ACOUSTICAL INSULATION IN ACCORDANCE WITH
 - B. ALL GYPSUM BOARD PARTITIONS RECEIVING ACOUSTICAL INSULATION SHALL HAVE ALL BUTTING PERIMETERS OF GYPSUM BOARD AND ANY ELECTRIC OR DUCT PENETRATIONS SEALED WITH ACOUSTICAL SEALANT
 - B. APPROVED MANUFACTURERS THE FOLLOWING MANUFACTURERS' PRODUCTS ARE ACCEPTABLE SUBJECT TO THESE SPECIFICATIONS:
 - U.S. GYPSUM 2. GOLD BOND
 - C. INSTALLATION/FASTENERS
 - INSTALLATION AND FASTENERS TYPE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

FLINTKOTE

09650 - Resilient Flooring

- VINYL WALL BASE:FS SS-W-40, TYPF II. 4" HIGH 0.080" GAGE, WITH MATCHING STOPS & PREFORMED CORNER UNITS, STANDARD TOP-SET COVE,
- UNLESS OTHERWISE NOTED. APPLY WALL BASE IN LENGTHS AS LONG AS PRACTICABLE TO WALLS. COLUMNS. AND ALL PERMANENET FIXTURES WHERE INDICATED. MITERED OUTSIDE CORNERS ARE NOT ACCEPTABLE.

- 09900 PAINTING GENERAL
- A. SUBMITTALS MANUFACTURER'S DATA: SUBMIT TWO COPIES OF MANUFACTURER'S TECHNICAL INFORMATION INCLUDING PAINT LABEL ANALYSIS AND APPLICATION INSTRUCTIONS FOR EACH MATERIAL PROPOSED FOR USE. TRANSMIT A COPY OF EACH MANUFACTURER'S INSTRUCTIONS TO THE PAINT
- B. APPROVED MANUFACTURERS OR APPROVED EQUAL
- 1. CON-LUX, BENJAMIN MOORE, SHERWIN WILLIAMS OR GLIDDEN

II. EXECUTION

- A. INSPECTION AND PREPARATION DO NO PAINTING UNTIL OTHER WORK LIKELY TO CAUSE
- DUST AND DIRT HAS BEEN COMPLETED. DO NOT PAINT OVER DIRT, DUST, SCALE, GREASE, MOISTURE, SCUFFED SURFACES, OR CONDITIONS OTHERWISE DETRIMENTAL TO THE FORMATION OF A DURABLE PAINT
- PROTECT ALL ADJACENT SURFACES AND MATERIALS FROM PAINTING OPERATIONS. USE DROP CLOTHS TO PROTECT ADJACENT CONSTRUCTION. USE AN EASILY REMOVABLE MASKING TAPE TO PROTECT SURFACES, WHICH ARE NOT TO BE PAINTED OR WHERE A SHARP LINE IS REQUIRED AT THE TERMINATION OF A PAINTED AREA.
- B. APPLICATION
 - A. APPLY PAINT IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS.

C. CLEAN-UP AND PROTECTION

- DURING THE PROGRESS OF THE WORK, REMOVE FROM THE SITE ALL DISCARDED PAINT MATERIALS, RUBBISH, CANS AND RAGS AT THE END OF EACH WORK DAY, AT COMPLETION OF PAINTING WORK, REMOVE ALL TOOLS, AND SURPLUS
- UPON COMPLETION OF PAINT WORK, CLEAN WINDOW GLASS AND OTHER PAINT-SPATTERED SURFACES. REMOVE SPATTERED PAINT BY PROPER METHODS OF WASHING AND SCRAPING, USING CARE NOT TO SCRATCH OR OTHERWISE

D. PAINT SCHEDULE (BASED OFF CON-LUX)

- INTERIOR PAINT SYSTEMS FERROUS METAL
- 2 COATS SATIN-PLEX
- GYPSUM BOARD 1 COAT JET-PLEX 2 COATS SATIN-PLEX EXTERIOR PAINT SYSTEMS
- PRIME/ FINISH: PAINT NEW MASONRY INFILL PER OWNER'S
- REQUIREMENTS, MATCH ADJOINING AREAS. FERROUS METAL

2 COATS STEEL GUARD

<u> 16000 – ELECTRICAL</u>

I. GENERAL

B. SCOPE

- ALL WORK INCLUDED UNDER THIS SPECIFICATION IS SUBJECT TO THE AGREEMENT, THE GENERAL CONDITIONS OF THE CONTRACT, SUPPLEMENTARY GENERAL CONDITIONS, SPECIAL CONDITIONS, AND
- PROVIDE ALL MATERIALS, LABOR, EQUIPMENT AND APPLIANCES REQUIRED TO COMPLETE WORK OF THIS SECTION, INCLUDING BUT NOT NECESSARILY LIMITED TO THE FOLLOWING OUTLETS, PLATES & CABLE TRAYS. ELECTRICAL SERVICE

LIGHTING FIXTURES & LAMPS.

- DISTRIBUTION PANELBOARD. 8. GROUNDING. SAFETY SWITCHES. LIGHTING CIRCUITS.
- C. REFERENCE DRAWINGS AND COORDINATION ALL DRAWINGS LISTED ON TITLE PAGE OF PLANS INCLUDING ELECTRICAL DRAWINGS. 2. THE REFERENCE DRAWINGS AND SPECIFICATIONS SHALL BE NSIDERED AS MUTUALLY COMPLEMENTARY. ANYTHING

SPECIFICATIONS AND NOT INDICATED ON THE DRAWINGS SHALL BE CONSIDERED AS BOTH SHOWN AND SPECIFIED

TELEPHONE SERVICE.

D. OTHER TRADES BIDDERS SHALL EXAMINE THE SITE AND THE COMPLETE SET OF PLANS AND SPECIFICATIONS COVERING THE ENTIRE PROJECT. THEY SHALL BECOME FULLY CONVERSANT WITH THE TYPE OF GENERAL CONSTRUCTION AND ALL PERTINENT FACTS AFFECTING THE COST OF CARRYING OUT THE WORK

THEY WILL CONTRACT TO PERFORM.

SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE

- THIS CONTRACTOR SHALL CHECK CAREFULLY WITH OTHER CONTRACTORS SO AS TO COORDINATE THE LOCATION OF ELECTRICAL EQUIPMENT WITH THE WORK OF OTHER TRADES. E. RULES AND REGULATIONS
- ALL THE WORK SHALL BE CARRIED OUT IN CONFORMITY WITH THE RULES AND REGULATIONS OF THE N.E.C., NEXTEL GROUNDING SPECIFICATIONS AND OF THE VARIOUS AGENCIES HAVING JURISDICTION CONTRACTOR SHALL MAKE THE NECESSARY APPLICATIONS, PAY THE REQUIRED FEES, SECURE THE PROPER PERMITS AND FURNISH THE ENGINEERS WITH CERTIFICATES OF APPROVAL OF THEIR WORK WITH

NOTHING IN THESE DRAWINGS AND SPECIFICATIONS SHALL BE CONSTRUED TO ALLOW INSTALLATION WHICH DOES NOT MEET ABOVE

F. VISITING THE PREMISES THE ELECTRICAL CONTRACTOR IS REQUIRED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS TO BE MET IN INSTALLING THE WORK AND OTHER WORK NOT DEFINITELY

SPECIFIED OR SHOWN TO PROPERLY INSTALL THE COMPLETE

SYSTEM AS NO ADDITIONAL ALLOWANCE WILL BE MADE FOR ANY CHANGES HE MAY BE REQUIRED TO MAKE DUE TO EXISTING

II. PRODUCTS

CODES AND REGULATIONS.

- A. APPROVED MANUFACTURERS THE CATALOG NUMBER AND THE NAMES OF MANUFACTURERS INDICATE MATERIALS REQUIRED. THE PURCHASE AND INSTALLATION OF NEW SUBSTITUTE MATERIALS WILL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED IN WRITING, PRIOR TO BIDDING.
- 1. THE CONTRACTOR SHALL INSTALL A NEW 200 AMPERE, FUSIBLE, NEMA 1, DISCONNECT SWITCH 208V, 3 PHASE AT POINT OF NEW SERVICE ENTRANCE IN 1ST FLOOR AS SHOWN ON CONTRACT DWGS. GROUNDING SHALL BE ACCOMPLISHED BY TIEING #6 AWG GROUND WIRE TO EX. WATER MAIN. SEE GROUNDING SECTION OF SPEC THE CONTRACTOR SHALL RUN A DEDICATED 2-1/2" GALVANIZED STEEL RACEWAY FROM THE NEW SERVICE ENTRANCE IN 1ST FLOOR TO A POINT NEAR THE TELECOMMUNICATION ROOM AS SHOWN ON THE DRAWINGS, SUPPORT THE CONDUIT NEAR THE CEILING AS REQUIRED. CONTRACTOR SHALL EXTEND 2-1/2" CONDUIT TO THE MAIN DISCONNECT SWITCH IN THE 1ST FLOOR CELL SITE. THE 2-1/2" GALVANIZED STEEL RACEWAY SHALL CARRY 1-#6 AWG, THWN TYPE CABLES & 4-4/0 AWG GROUNDING WIRES. THE CONTRACTOR SHALL INSTALL JUNCTION BOXES PER N.E.C. REGIOREMENTS. N.E.C. REQUIREMENTS.
- 2. THIS CONTRACTOR SHALL OBTAIN FROM THE UTILITY COMPANY A LIST OF EQUIPMENT NECESSARY FOR THE MOUNTING OF THE CHECK METERING FACILITIES, AND SHALL PROVIDE AND MOUNT SAME WITH THE UTILITY COMPANY'S INSTRUCTION.

C. TELEPHONE SERVICE

- THE CONTRACTOR SHALL ARRANGE WITH THE TELEPHONE COMPANY FOR BRINGING TELEPHONE SERVICE TO THE NEXTEL FACILITY IN THE BUILDING AND PAY
- FOR ALL CHARGES FOR SAME. 2. AT TELEPHONE OUTLET PROVIDE A 4" SQUARE BOX WITH BLANK PLATE TO MATCH RECEPTACLE PLATES.

D. DISTRIBUTION PANELBOARD

- FURNISH AND INSTALL A DISTRIBUTION PANELBOARD FOR LIGHT AND POWER DISTRIBUTION, AS SHOWN ON DRAWINGS AND DESCRIBED HEREIN.
- THE DISTRIBUTION PANEL SHALL BE 208Y/120 VOLT, PHASE, 4 WIRE, 200 AMP, SOLID NEUTRAL AND SHALL CONSIST OF BREAKERS ATTACHED TO THE PANEL BUSES WITH BOLTED LINK CONNECTIONS HOUSED WITHIN A CODE

GAUGE, NEMA 1, GENERAL PURPOSE ENCLOSURE AS SHOWN

PANEL SHALL HAVE A NEATLY TYPEWRITTEN CIRCUIT DIRECTORY IN A METAL FRAME WITH A TRANSPARENT COVER

WITCHES SHALL BE OF THE TOTALLY ENCLOSED, LOCKABLE TYPE

AND MADE OF THE QUICK-MAKE, QUICK-BREAK MECHANISM WITH

ON THE DRAWINGS. THE NUMBER OF POLES AND TRIP

SETTINGS SHALL BE AS SHOWN ON THE DRAWINGS

ON THE INSIDE OF THE DOOR. E. SAFETY SWITCHES

- FOUR POLES AS SHOWN ON DRAWINGS. FUSIBLE SWITCH SHALL BE EQUIPPED WITH DUAL ELEMENT TIME DELAY TYPE FUSE. SWITCH SHALL BE AS MANUFACTURED BY SQUARE "D" - HEAVY DUTY, CLASS 3110, NEMA 1 ENCLOSURE, RATED FOR 200 AMPERES - OR EQUAL.
- FURNISH AND INSTALL ALL CONDUITS, OUTLETS, BOXES, WIRES, SWITCHES, RECEPTACLES, ETC., FOR THE COMPLETE LIGHTING AND RECEPTACLE SYSTEMS AS SHOWN

2. CONDUIT SHALL BE NEATLY RACKED AND SECURELY

FASTENED AT RIGHT ANGLES AND PARALLEL TO BUILDING 3. CIRCUIT WIRING SHALL BE DONE WITH EMT CONDUIT AND SHORT LENGTHS OF ARMORED CABLE. CONDUIT SHALL B NEATLY RACKED AND SECURELY FASTENED AT RIGHT ANGLES AND PARALLEL TO BUILDING LINES. THE WORK SHALL BE DONE WITH THWN STRANDED WIRE, #12 MINIMUM. BOXES SHALL BE OF #16 GAUGE STAMPED STEEL, K.O. AND OF THE TYPE AND SIZE REQUIRED BY THE N.E.C. AND OF

MIRE-NUTS OF MANUFACTURE OF "SCOTCH-LOK"CONNECTORS.

F. LICHTING & RECEPTACLE CIRCUITS

G. DEVICES, PLATES AND CABLE TRAYS PROVIDE AT EVERY INDICATED OUTLET THE PROPER DEVICE AND PLATES AS HEREINAFTER SPECIFIED. WHERE MORE THAN ONE DEVICE IS INDICATED IN ONE LOCATION. THEY SHALL BE GANGED TOGETHER IN ONE BOX AND UNDER ONE PLATE, AS REQUIRED.

DIMENSIONS TO HOUSE THE DEVICES AND SPLICES WITHOUT CROWDING. SPLICES SHALL BE MADE WITH APPROVED

RECEPTACLES, WHERE INSTALLED OUTSIDE, EXPOSED OR IN PLACES WHERE SUBJECT TO SPRAY OR UNUSUAL CONDITIONS, SHALL BE EQUIPPED WITH WEATHER PROOF TYPE COVERS WITH GASKETS AND THREE-PRONG RECEPTACLES, HUBBELL OR BRYANT. PLATES SHALL BE CABLE TRAY SYSTEMS SHALL BE FABRICATED OF STEEL TROUGH SECTIONS WITH HOT DIP GALVANIZED FINISH. AFTER FABRICATION, FOR OUTDOOR USE, AND PRE-GALVANIZED FINISH FOR INDOOR USE. TRAY WIDTH AND DEPTH SHALL BE 12" AND 6" RESPECTIVELY. TRAYS

SHALL BE ROUTED AS SHOWN ON DRAWINGS AND SHALL BE

SUPPORTED EVERY 5 FT. ROOF CABLE TRAYS SHALL BE COVERED WITH PEAKED, FLANGED TYPE NON-VENTILATED

COVER, SUITABLE FOR OUTDOOR USE. ROOF CABLE TRAY SHALL CARRY A STENCIL NOTE - ANTENNA CABLES.

TRAY SYSTEM SHALL BE AS MANUFACTURED BY "GLOBE TRAY"

SINGLE POLE SWITCH - BRYANT #4901 RATED 20A

- H. LIGHTING FIXTURES AND LAMPS FURNISH AND INSTALL A COMPLETE SET OF FIXTURES AND LAMPS AS SHOWN ON DRAWINGS.
- BALLASTS SHALL BE ENERGY SAVING, HIGH POWER FACTOR TYPE AND UL LISTED. BALLAST SHALL BE AS MANUFACTURED BY UNIVERSAL MANUFACTURING CO. OR APPROVED EQUAL. 3. LAMPS SHALL BE OF THE TYPES CALLED FOR ON THE DRAWINGS. INCANDESCENT LAMPS SHALL BE AS MANUFACTURED BY

GENERAL ELECTRIC, SYLVANIA OR WESTINGHOUSE.

REQUIREMENTS.

- GROUNDING GROUNDING SHALL BE AS PER NEXTEL GROUNDING SPECIFICATIONS, AND PER NATIONAL ELECTRICAL CODE.
 THE TOTAL FACILITY GROUND SYSTEM SHALL BE COMPOSED OF AN EARTH ELECTRODE GROUND SYSTEM, LIGHTNING PROTECTION GROUND SYSTEM, EQUIPMENT FAULT PROTECTIVE GROUND SYSTEM AND SIGNAL REFERENCE GROUND SYSTEM AS SHOWN
- MAXIMUM RESISTANCE BY TEST TO GROUND SHALL BE 5 DHMS MEASURED BY CONTRACTOR IN THE ENGINEER'S

ON DRAWINGS AND PER NEXTEL GROUNDING

ALL SPLICES FOR GROUND WIRES SHALL BE MADE BY THERMAL PROCESS SUCH AS "CADWELD" PROCESS AS DEVELOPED AND SOLD BY THE ERICO PRODUCTS, INC., CLEVELAND, OHIO. ALL GROUND CONNECTIONS GALVANIZED EQUIPMENT, AND TO ALL EQUIPMENT THAT COULD BE REMOVED DURING NORMAL LIFE OF THE FACILITY SHALL BE MADE BY MEANS OF A THERMALLY WELDED LUG BOLTED TO THE EQUIPMENT.

A#2 AWG GROUND WIRE SHALL BE CADWELDED TO WATER MAIN PIPE. THE GROUND WIRE SHALL BE ROUTED IN 3/4"C INSIDE BUILDING TO THE TELECOMMUNICATIONS ROOM. GROUND WIRE SHALL BE CONNECTED TO MAIN GROUND BUSBAR AS INDICATED ON DRAWINGS.

J. ANTENNA CABLES AND ACCESSORIES

PER NEXTEL'S REQUIREMENTS.

FOR CABLE RUNS OF UP TO 225' USE 7/8" CABLE. FOR CABLE RUNS OF 225' TO 325' USE 1-1/4" CABLE.

III. EXECUTION

- 1. VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED. 2. CONTRACTOR SHALL CONSULT WITH ENGINEER PRIOR TO BEGINNING WORK WHEN DISCREPANCIES OR CONFLICTS ARE DISCOVERED IN THE FIELD DURING ROUGH-IN PROCEDURES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ERRORS MADE, FOR NOT FOLLOWING THESE REQUIREMENTS.

- B. ELECTRICAL INSTALLATIONS
- SEQUENCE, COORDINATE, AND INTEGRATE THE VARIOUS ELEMENTS OF ELECTRICAL SYSTEMS, MATERIALS, AND
- LAYOUT WORK AND VERIFY ALL LOCATIONS AND FIXTURES WITH ENGINEER BEFORE INSTALLATION BEGINS.
- COMPLY WITH THE FOLLOWING REQUIREMENTS: A. ALL EQUIPMENT NOT SPECIFICALLY MENTIONED, BUT NECESSARY FOR THE COMPLETE INSTALLATION SHALL BE FURNISHED AND
- B. VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS.
- ARRANGE FOR CHASES, SLOTS, & OPENINGS IN OTHER BUILDING COMPONENTS DURING PROGRESS OF CONSTRUCTION, TO ALOW FOR ELECTRICAL INSTALLATION.
- SEQUENCE, COORDINATE AND INTEGRATE INSTALLATIONS OF ELECTRICAL MATERIALS AND EQUIPMENT WITH OTHER BUILDING COMPONENTS FOR EFFICIENT FLOW OF THE WORK BUILDING.
- WHERE MOUNTING HEIGHTS ARE NOT DETAILED OR DIMENSIONED, INSTALL SYSTEMS, AND EQUIPMENT TO PROVIDE THE MAXIMUM
- INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT TO CONFORM WITH APPROVED SUBMITTAL DATE, INCLUDING COORDINATION DRAWINGS, TO GREATEST EXTENT POSSIBLE.
- INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS WHENEXPOSED IN FINISHED SPACES. 4. NO CREATION OF NOISE OUTSIDE THE HOURS OF 8:00 AM TO 6:00 PM.
- INSTALL ELECTRICAL EQUIPMENT TO FACILITATE SERVICING MAINTENANCE, AND REPAIR OR REPLACEMENT OF EQUIPMENT 5. BUILDING SECURITY SHALL BE MAINTENED IN ORDER TO PREVENT UNAUTHORIZED PERSONS FROM ENTERING PREMISES. COMPONENTS, AS MUCH AS PRACTICAL. CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH MINIMUM OF INTERFERENCE WITH
- ACCUMULATION OF DUST: THE CONTRACTOR SHALL LEAVE TO INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT GIVING RIGHT-OF-WAY PRIORITY TO SYSTEMS REQUIRED TO BE INSTALLED AT A SPECIFIED WORK SITE ROOM CLEAN EACH DAY. IN EVENT THAT ASBESTOS IS FOUND ON THE JOB SITE, ITS REMOVAL SHALL TAKE PLACE IN ACCORDANCE WITH ALL THE APPLICABLE REGULATIONS OF

OSHA SECTION 1910.1 INCLUDING STATE AND FEDERAL DUMPING GROUNDS. INSTALL SWITCHES, RECEPTACLES, SPECIAL OUTLETS, ETC. LOCATED PROPERLY WITH RESPECT TO ALL DOORWAYS, OPENINGS, TRIM, ETC

- ALARM JUNCTION BOX SHALL BE LOCATED ABOVE SITE CONTROLLER (CC), PER DWG. E-1. ALARM CONTACTS SHALL BE WIRED TO TERMINAL STRIPS MOUNTED INSIDE PANEL. CONTRACTOR SHALL SUPPLY
- 100% SPARE TERMINAL STRIPS. CABLES SHALL BE LABELED WITH PERMANENT MARKERS, BRASS TAGS STAMPED WITH ANTENNA ORIENTATION AND NUMBER AND ATTACHED TO CABLES WITH STAINLESS STEEL TIE WIRES. TAGS SHALL BE PROVIDED ATTACHED
 - THERE SHALL BE (4) FOUR ALARM CONTACTS WIRED IN PANEL. THE CONTACTS ARE: A) INTRUDER ALARM FROM MAGNETIC DOOR READER RELAY B) SMOKE ALARM FROM CONTACT IN SMOKE DETECTORS.
- ALL CABLE CONNECTIONS OUTSIDE SHALL BE COVERED WITH WEATHERPROOF SPLICING KIT. THE KIT SHALL BE AS SPECIFIED IN NEXTEL CORD INDIANC SPECIFICATIONS. EACH ALARM SIGNAL REQUIRES (2) TWO #14 AWG WIRES FROM SOURCE TO ALARM PANEL. ALARM SIGNALS SHALL BE ROUTED IN A DEDICATED 3/4" CONDUIT. (ALL ALARM THE MINIMUM BENDING RADIUS FOR ANTENNA CABLES SHALL BE AS

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REVISION

CLIENT DWG. NO.

PROJECT NO.

EIA DRAWING NO.

1/2" (FOAM JUMPER) CABLES SHALL BE INSTALLED WITH A MINIMUM NUMBER OF BENDS WHERE POSSIBLE. CABLES SHALL NOT BE LEFT UNTERMINATED AND SHALL BE SEALED IMMEDIATELY AFTER BEING INSTALLED.

ANTENNA CABLE LENGTHS SHALL BE MEASURED BY THE INSTALLER. THE INSTALLER SHALL NOTIFY NEXTEL PRIOR TO PURCHASE OF CABLE AND INDICATE OVERALL LENGTH & TYPE OF THE CABLE PLANNED TO BE USED.

7/8"

1-1/4"

1-5/8*

1. THE CONTRACTOR SHALL DO ALL THE CUTTING NECESSARY FOR THE INSTALLATON OF THIS WORK. NO CUTTING LIKELY TO WEAKEN ANY PART OF THE STRUCTURE SHALL BE DONE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. PATCHING SHALL BE DONE BY A MECHANIC SKILLED IN THE TRADE AFFECTED, AT THIS CONTRACTOR'S FYPENSE

NAMEPLATES

- THIS CONTRACTOR SHALL FURNISH AND INSTALL NAMEPLATES ON ALL OUTLETS, PANELS, AND CONTROLS DESIGNATING THE EQUIPMENT CONTROLLED. F. LOCATION OF OUTLETS
- DETAILS AND ALSO INSTRUCTIONS FROM THE ENGINEER'S BEFORE INSTALLATION OF CONDUIT FOR SWITCHES, RECEPTACLES, CEILING LIGHTS, THE OWNER RESERVES THE RIGHT TO MOVE EACH OUTLET LOCATION TO BETTER ADAPT THEM FOR USAGE, PRIOR TO INSTALLATION, WITHIN A DISTANCE OF 3'-0" AS PRESENTLY INDICATED, AT NO ADDITIONAL COST TO OWNER.

ISSUED FOR CLIENT REVIEW

GAETANO P. CIPRIANO

AS NOTED

RAWN

DESIGNED

CHECKED

APPROVED

PROJECT

MANAGER:

PROJECT

REVISION DESCRIPTION

ARCHITECTURE • ENGINEERING • CONSTRUCTION

115 Evergreen Pl. • E.Orange, NJ 07018 • (201)672-5100

NEXTEL COMMUNICATIONS

NEW FAIRFIELD, CT

GENERAL NOTES

& SPECIFICATIONS

PROFESSIONAL ENGINEER

CT. LICENSE NO.15383

- ANTENNA CABLES UNLESS SPECIFIED, CABLES SHALL BE FOAM DIELECTRIC COAXIAL CABLES AS SPECIFIED BY NEXTEL.
- CONNECTORS, HANGERS, AND ACCESSORIES A. CONNECTORS, HANGERS AND ACCESSORIES SHALL BE PLACED AND INSTALLED AS RECOMMENDED BY THE CABLE MANUFACTURER AND

FOR CABLE RUNS GREATER THAN 325' USE 1-5/8" CABLE

- HEIGHTS INDICATED ARE ABOVE FINISHED FLOOR TO THE CENTER OF THE DEVICES. MOUNTING HEIGHTS FOR OTHER EQUIPMENT ARE AS SHOWN ON THE ELECTRICAL OR ARCHITECTURAL PLANS. RECEPTACLE -18" (UNLESS NOTED OTHERWISE) LIGHTING SWITCHES
 - -18" (UNLESS NOTED OTHERWISE)
 - NOT HIGHER THAN 6'-6" TO TOP OF BREAKER OR SWITCH, BOTTOM OF CABINET NOT LESS THAN 24" ABOVE FINISHED FLOOR.
 - 4. VERIFY ALL DOOR SWINGS BEFORE ROUGHING IN FOR SWITCHES, ETC.

UPON COMPLETION OF THE ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL TEST THE ENTIRE ELECTRICAL SYSTEL FOR SHORT CIRCUITS AND GROUNDS IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE.

TENANT SAFETY NOTES

THERMOSTATS

PANELS

- SPECIAL PRECAUTION SHALL BE TAKEN SO THAT THE EQUIPMENT ON THIS APPLICATION AND INSTALLATION SHALL NOT AFFECT THE
- 1. TENANT EGRESS TO AND FROM THE BUILDING 2. FIRE SAFETY OF THE BUILDING
- STRUCTURAL SAFETY OF THE BUILDING
- ELECTRICITY, GAS, WATER, & ANY OTHER UTILITIES WILL NO BE INTERRUPTED DURING CONSTRUCTION.

- FURNISHED TELECOMMUNICATION EQUIPMENT.
- C) LOSS OF POWER ALARM FROM CONTACT IN JOSLYN PANEL. D) HI-LOW TEMPERATURE ALARM FROM THERMOSTAT
- CONTRACTOR SHALL LABEL ALL WIRES AND TERMINATIONS IN ALARM PANEL WITH PROPER TAGGING.

D. <u>CUTTING AND PATCHING</u>

ANTENNA CABLE INSTALLATION

A. ANTENNA LOCATIONS

GROUNDING SPECIFICATIONS.

C. AT THE TERMINATION BEFORE THE MDF

B. AT 50' INTERVALS

- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SLEEVES OR OPENINGS THROUGH FLOORS OR WALLS REQUIRED FOR PASSAGE OF ALL CONDUITS, PIPES AND DUCTS INSTALLED BY HIM.

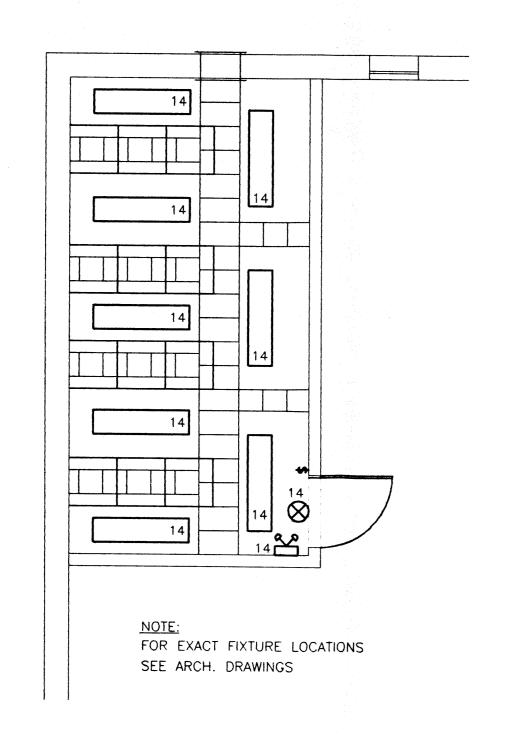
 SLEEVES SHALL BE OF STANDARD 20-GAUGE STEEL RIGIDLY SUPPORTED AND SUITABLY PACKED TO PREVENT INGRESS OF WET
- THE PLANS AS DRAWN DO NOT NECESSARILY SHOW ALL THE FITTINGS, ETC., NECESSARY TO SUIT BUILDING CONDITIONS.

 LOCATIONS OF OUTLETS, APPLIANCES, ETC., ARE APPROXIMATE & THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATIONS IN ORDER TO MAKE THEM FIT WITH THE ARCHITECTURAL

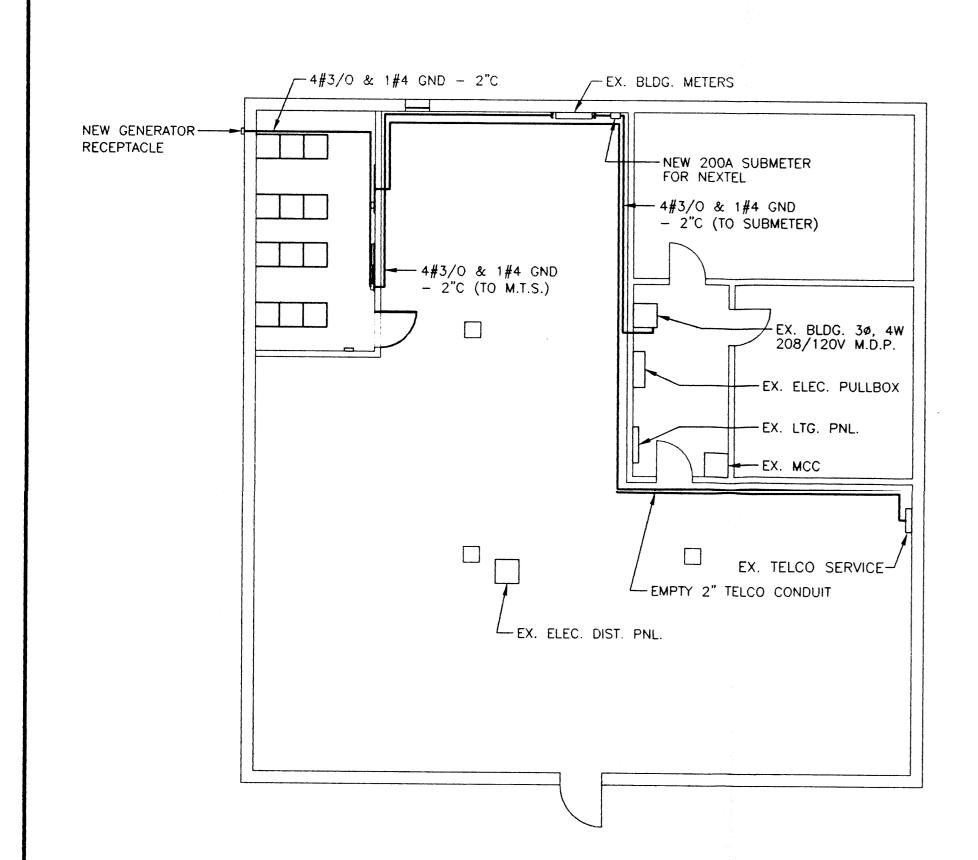
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CABLES SHOULD BE FURNISHED WITHOUT SPLICES AND WITH CONNECTORS AT EACH END.

A. ROUGH-IN

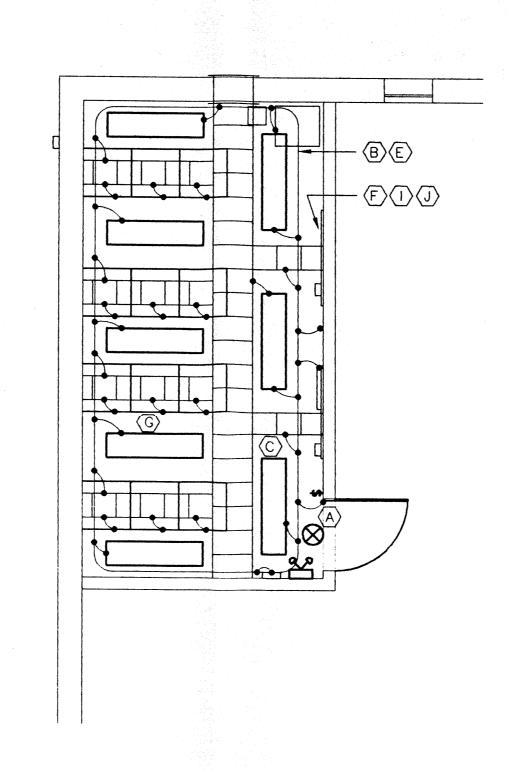




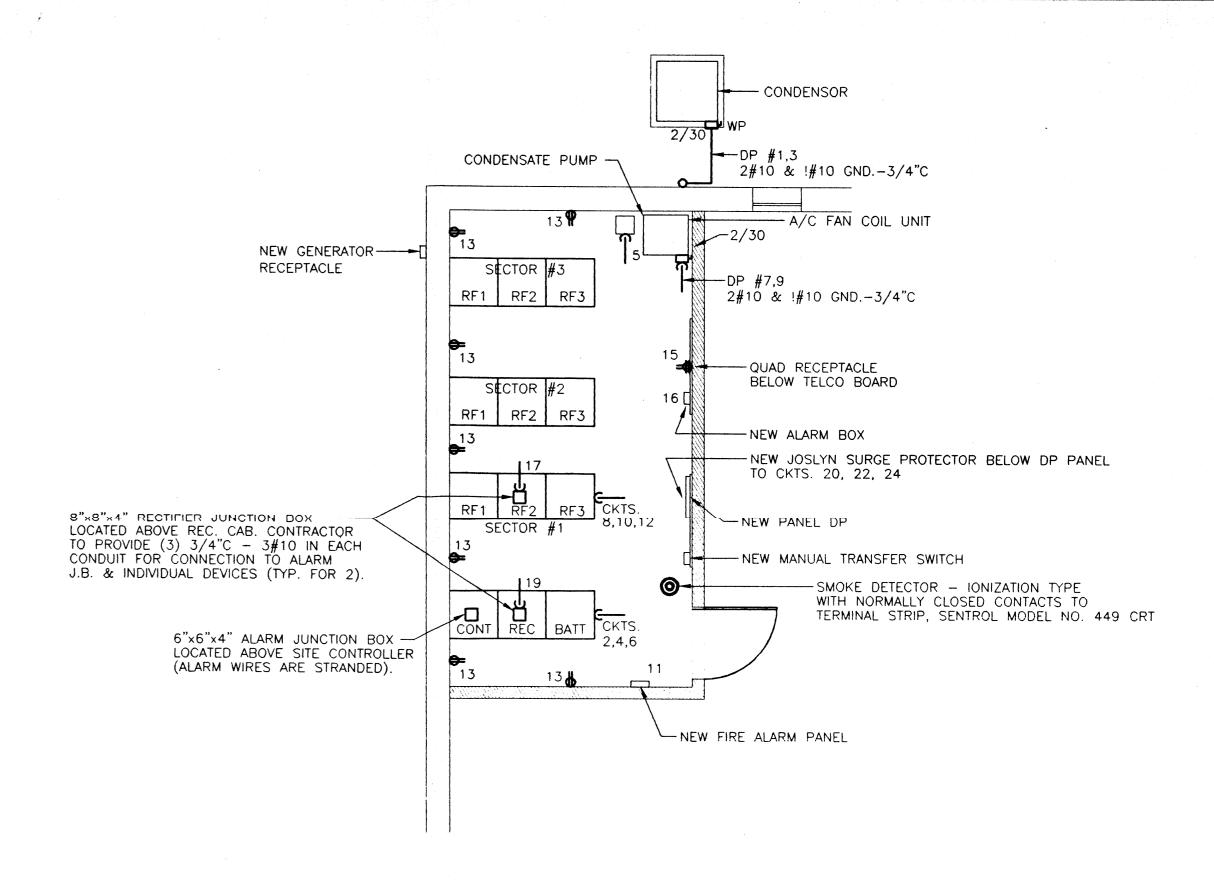


OVERALL BUILDING PLAN

1/4" = 1'-0"





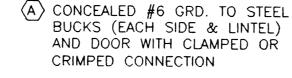




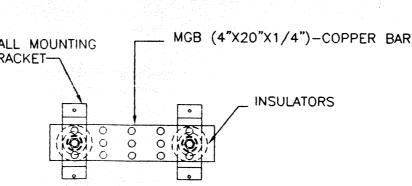
- 1, SECTORS 2 AND 3 FUTURE NOT IN THIS SCOPE OF WORK.
- 2. PROVIDE SHALL MEAN FURNISH AND INSTALL

MANAGER:

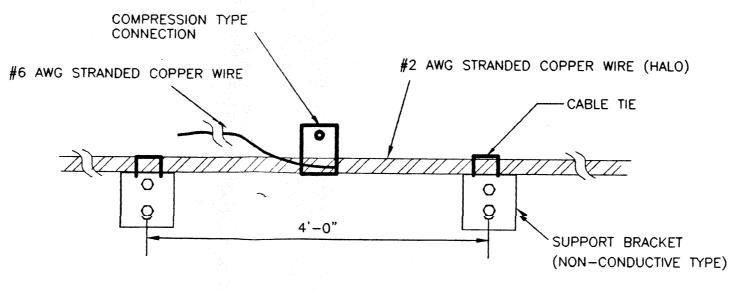
EQUIPMENT WALL MOUNTING BRACKET-



- (B) #6 GRD, GREEN INSUL. WIRE WITH CLAMPED OR CRIMPED CONN. TO ROOM PERIMETER GROUND CABLE (TYP.)
- © #6 GREEN INSUL. WIRE BOUND JUMPERS AT ALL CABLERACK CONN. VISIBLY SCRAPE EXISTING PAINT TO INSURE GROUNDING INTEGRITY (TYP.)
- \bigcirc (3) 6"ø GALV. ŠLÉEVES.
- (E) #2 AWG STRANDED COPPER WIRE(PERIPHERAL) ATTACHED AT 7'-4"A.F.F. (SEE DETAIL)
- (F) GRD. BAR PLATE INSIDE ROOM.
- ⟨G⟩ #6 AWG. INSUL. STRANDED COPPER WIRE FROM RADIO EQUIPMENT TO GND. BAR (BY EQUIP. INSTALLER)
- (H) CONTRACTOR TO CADWELD #2 AWG INSUL. GRD. CABLE FROM GRD. BAR PLATE TO EXIST. WATER MAIN PIPE. VERIFY EXACT LOCATION WITH NEXTEL CONST. MGR. & OWNER.
- (I) GRD. BAR PLATE OUTSIDE
- (J) #2 AWG GROUND WIRE ROUTED TO ROOF. ROUTE ADJACENT TO ANTENNA CABLE.



MASTER GROUND BAR PLATE. ROOF GROUND BAR PLATE



PERIPHERAL GROUNDING WIRE (HALO) CONNECTION DETAIL

HALO ROOM GROUND CONDUCTOR

EQUIPMENT TO BE CONNECTED BY COMPRESSION TYPE CONNECTION TO HALO GROUNDING WIRE INCLUDE:

- 1. OVERHEAD CABLE RACKING ALL JUMPERED TOGETHER
- DOOR FRAMES
- HVAC FRAMES
- 4. NEW ELECTRICAL PANEL
- 5. ALL OTHER NON-RBA AND METALLIC EQUIPMENT
- 6. ANY OTHER PERMANENT, SIGNIFICANT, METAL OBJECT WITHIN SEVEN FEET OF ANY OTHER GROUND OBJECT
- 7. ELECTRICAL UNIT HEATER

EQUIPMENT GROUND BAR (BY EQUIPMENT INSTALLER)

- 1. ON EXTERIOR OF BUILDING BELOW GALV. SLEEVES
- 2. ON INSIDE BELOW SLEEVES
- 3. ON ROOF JUST BEFORE CABLES LEAVE ROOF #2 SOLID CAD WELD FROM ROOF TO OUTSIDE OF ROOM (GROUND CONNECTION TO BE KEPT OUTSIDE OF ROOM) THEN RUN TO WATER

EQUIPMENT TO BE CONNECTED TO THE EQUIPMENT GROUND BAR:

- 1. RACK GROUND CONNECTIONS ON ALL RADIO RACKS
- * 2. GROUND BARS ON ALL DC POWER DISTRIBUTION PANELS
- * 3. TRANSMISSION RACKS
- * 4. TELEPHONE PROTECTION GROUNDING TERMINAL

* BY EQUIPMENT INSTALLER

NORTHEAST UTILITIES CO.

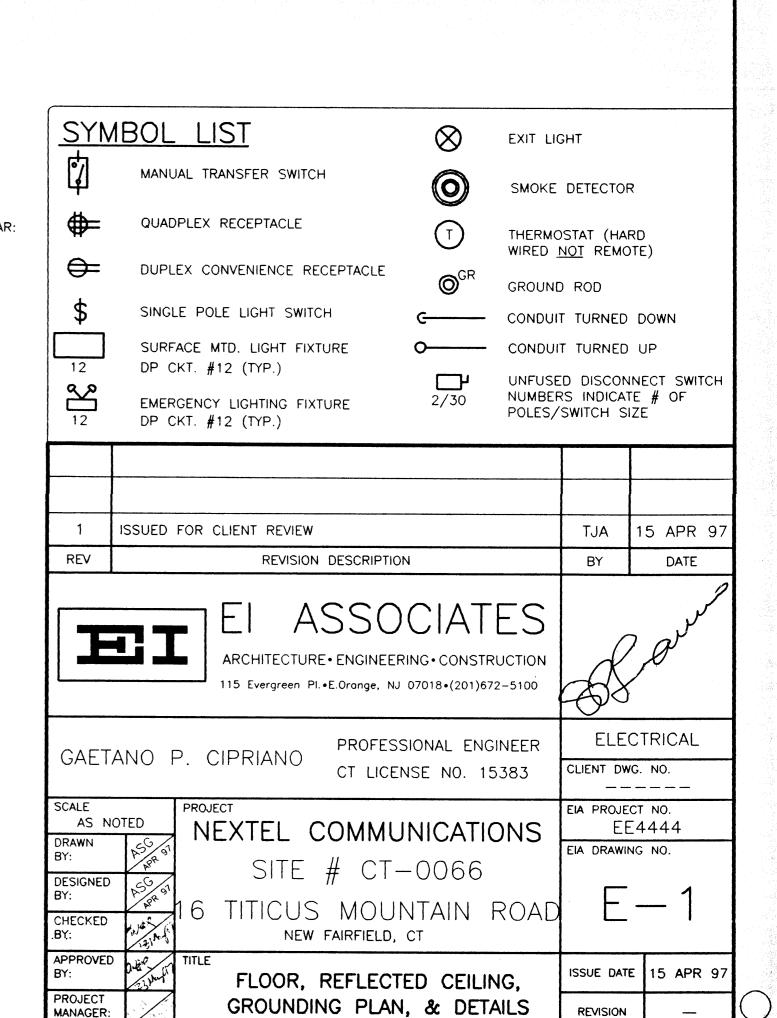
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<u> AT & T</u>

THOMAS C. FORD COMMUNICATIONS TECHNICIAN 1-203-879-2558

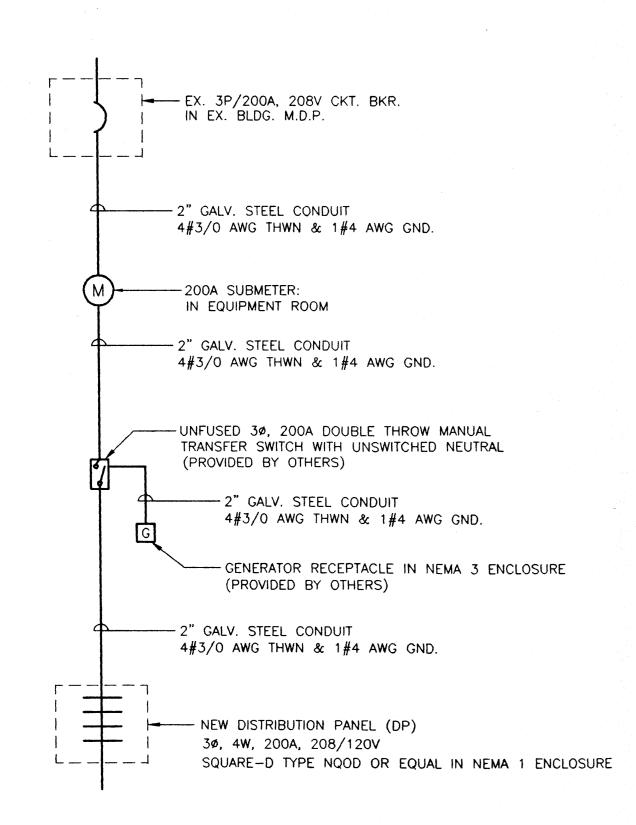
NOTE:

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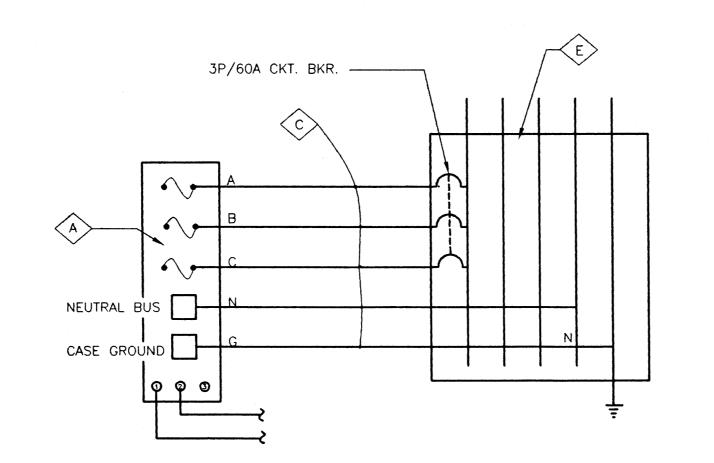


REVISION

PLOTTED: 22 MAY 1997 at 7:02pm by Kurt PATH: G:\PROJECTS\NEXTEL\EF4444\B1101





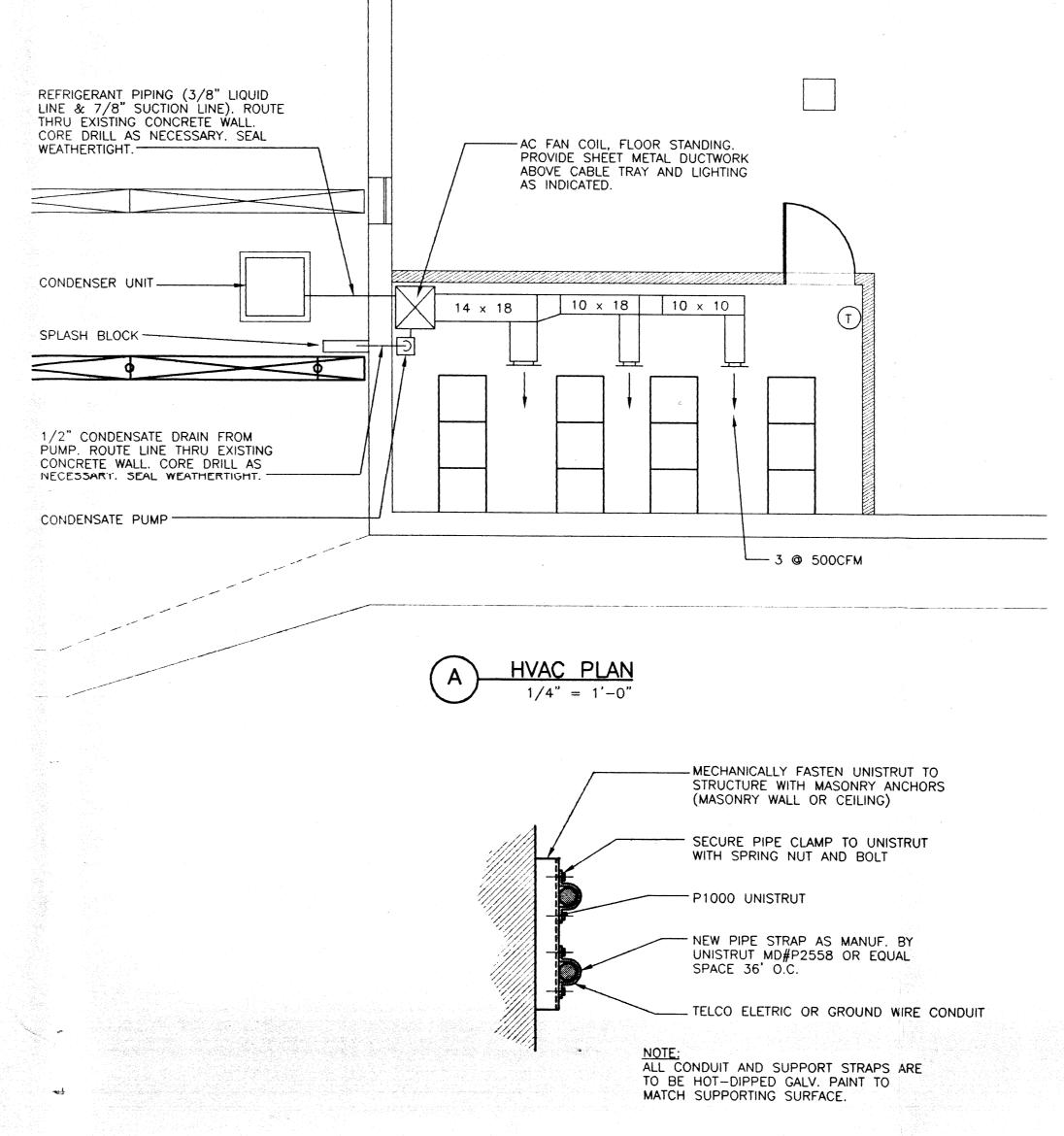


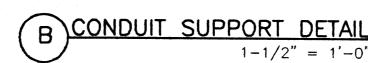
SURGE PROTECTOR RISER DIAGRAM

	SURGE PROTECTOR KEY NOTES
$\langle A \rangle$	AC SURGE PROTECTOR: JOSLYN SURGITRON I MODEL NO. 1455-85-MN 208/120V, 60 HZ, 3ø, 4W
$\langle B \rangle$	GROUND AS PER N.E.C. SEC. 250
\Diamond	5 #4 CU, 1"C SHALL BE TERMINATED ON THE NEW 3P/60A BREAKER OF THE NEW 200A CIRCUIT BREAKER PANEL
(D)	2 #22 SOLID WIRE (RED/BLACK) INSULATION NON-SHIELDED CABLE, 1/2" CONDUIT, ALARM WIRES TO TELCO BOARD
⟨E⟩	NEW CIRCUIT BREAKER PANEL

SURGE ARRESTOR GENERAL NOTES:

- 1. GROUND BUS IN SURGE ARRESTOR IS UTILIZED ONLY AS AN EQUIPMENT CASE GROUND.
- 2. ALL CONDUCTORS SHALL BE FANNED OUT SMOOTHLY, NO RIGHT ANGLE BENDS ARE PERMITTED. POSITION ALL LEADS A, B, C, N, G TOGETHER SO THAT THEY WILL BE IN CLOSE PROXIMITY TO EACH OTHER. LENGTH SHALL BE AS SHORT AS POSSIBLE BUT NOT LONGER THAN 8'.
- 3. WIRING FROM THE SURGE ARRESTOR TO THE NEW CIRCUIT BREAKER PANEL SHALL BE #4 CU, OR AS SPECIFIED BY SURGE ARRESTOR MANUFACTURER.
- 4. SURGE ARRESTOR FURNISHED BY NEXTEL AND INSTALLED BY CONTRACTOR.





	L: DP		MOL	INTINC	S:⊠ S	URFACE		MAIN	LUGS	ONLY 200 AMP MA	AN CE
208Y	7/120V, 3 PHASE, 4 WIRE					LUSH		FEED	THRO	OUGH LUGSAMP BU	JS
22,00	00 MIN. A.I.C. SYM.,					N MCC		SHUN	IT TRI	P MAIN	
CKT. NO.	LOAD	TRIP	K' A	VA/PH B	IASE C	KVA,	PHAS B	E C	TRIP	LOAD	CK NO
1	3 TON OUTDOOR		3.0			3.0		·	30	RADIO EQUIPMENT POWER SUPPLY	2
	CONDENSING UNIT	30		3.0			3.0		30	RADIO EQUIPMENT POWER SUPPLY	4
5	CONDENSATE PUMP	20			0.5			3.0	30	RADIO EQUIPMENT POWER SUPPLY	6
7	3 TON AHU W/ 5KW HEAT	30	2.5			3.0			30	RADIO EQUIPMENT POWER SUPPLY	8
		30		2.5			3.0		30	RADIO EQUIPMENT POWER SUPPLY	1(
11	FIRE ALARM PANEL	20			0.11			3.0	20	RADIO EQUIPMENT POWER SUPPLY	12
13	DUPLEX RECEPTACLES	20	1.26			0.75			20	INTERIOR LIGHTING EMERGENCY LIGHTING	14
15	TELCO QUAD RECEPT.	20		1.5			0.5		20	ALARM SYSTEM INCL. MAG. DR. ALARM	16
17	ALARM POWER	30			-			_	20	SPARE	18
19	ALARM POWER	30	_			_					20
21	SPARE	20		_			_		60	JOSLYN SURGE PROTECTOR	2:
23	SPARE	20			-			_			24
41											4:
	SUB-TOTALS		6.8	7.0	0.2	6.8	6.5	6.0		6	
	TOTAL					33.3					

FOR 120/208 VOLT BRANCH CIRCUIT WIRING, THE MINIMUM WIRE SIZE SHALL BE AS FOLLOWS:

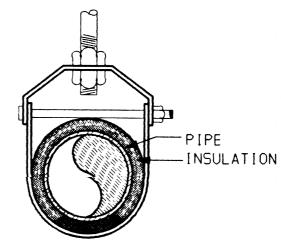
20	AMP.	CIRCUIT	BREAKER	 #	12	AWG	
30	AMP.	CIRCUIT	BREAKER	 #	10	AWG	
40	AMP.	CIRCUIT	BREAKER	 #	8	AWG	
60	AMP.	CIRCUIT	BREAKER	 #	6	AWG	

ALL CONTROL WIRING #14 AWG

LIGHTING FIXTURE SCHEDULE AMPS/FIXTURE MANUFACTURER WATTS VOLTS DESCRIPTION MOUNTING LOCATION/REMARKS SYMBOL & CATALOG NO. WATTS-TYPE SURFACE TYPE, COMMERCIAL. LITHONIA LIGHTING NEXTEL EQUIP. RM./ 40W T12, LOW-PROFILE, WRAPAROUND, #LB-2-40-120-A-ESB PROVIDE SLOW BLOW FUSE 120 90 GMF/RIF/FR 48"L. FLUOR. ACRYLIC PRISMATIC DIFFUSER W/ SONIC-WELDED, LUMINOUS ENDS 120V, FLUORESCENT TITAN, DIE-FORMED STEEL 1 NO. EXIT AS SHOWN EXIT SIGN, UNIVERSAL LITHONIA LTG. 7W-F7TT X-P-W-R-120-EL MOUNT'G, WHITE ON RED LETTERING QUANTUM, POLYCARBONATE LITHONIA LTG. 2 NO. AS SHOWN ON 120 EMERGENCY LTG. UNITS, WALL HALOGEN ELM-H DRAWINGS LEAD-CALCIUM BATTERY 5.4 W, EACH

GENERAL NOTES:

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH REQUIREMENTS OF NEC AND OTHER APPLICABLE CODES AND AGENCIES HAVING JURISDICTION.
- 2. PROVIDE EQUIPMENT GROUNDING AS PER NATIONAL ELECTRICAL CODE REQUIREMENTS, AND NEXTEL SPECIFICATIONS.
- 3. COORDINATE WITH OTHER TRADE CONTRACTORS FOR THE SCOPE OF INSTALLATION WORK AND POWER SUPPLY FOR THEIR CONTROL SYSTEMS.
- 4. ALL WIRES SHALL BE TYPE THWN STRANDED COPPER, WITH INSULATION RATED 600V, #12 AWG MINIMUM, IN 3/4" MIN. SIZE GALVANIZED STEEL CONDUIT, UNLESS NOTED OTHERWISE.
- 5. THE CONTRACTOR SHALL SUBMIT, FOR THE ENGINEER'S APPROVAL, DETAILED SHOP DRAWINGS OF ALL EQUIPMENT SPECIFIED, AS WELL AS DETAILED INSTALLATION LAYOUTS.
- 6. CONDUIT SHALL RUN AT RIGHT ANGLES OR PARALLEL TO BUILDING LINES AND SHALL BE NEATLY RACKED AND SECURELY FASTENED. INSULATED BUSHINGS AND DOUBLE LOCKNUTS SHALL BE USED THROUGHOUT. PULL BOXES AS PER N.E.C. REQUIREMENT SHALL BE PROVIDED TO FACILITATE THE INSTALLATION OF CABLES.
- 7. ALL CONDUITS SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN ACCORDANCE WITH THE REQUIREMENTS OF THE N.E.C.. FURNISH AND INSTALL EXPANSION TYPE FITTINGS WHEREVER CONDUITS PASS THROUGH STRUCTURAL EXPANSION JOINTS.
- 8. UPON COMPLETION OF THE ELECTRICAL INSTALLATION, THE ELECTRICAL CONTRACTOR SHALL TEST THE COMPLETE ELECTRICAL SYSTEM FOR SHORT CIRCUITS, GROUNDS, AND PROPER OPERATION IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE.
- 9. LOCATIONS OF ELECTRICAL EQUIPMENT AND DEVICES ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD.
- 10. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF LIGHTING FIXTURES, AND MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT.
- 11. COORDINATE ALL ELECTRICAL WORK AND POWER SHUTDOWN WITH THE OWNER.



NOTE:
HANGERS AND COMPONENTS
SHALL BE COATED WITH
RUST RESISTANT PRIMER

INSULATED PIPES ON
CLEVIS HANGERS

NOTE:

ELECTRICAL WORK IS NOT PART OF THE BUILDING PERMIT APPLICATION.

EQUIPMENT SPECIFICATIONS

1.0 <u>GENERAL</u>

THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION, SERVICE AND APPLIANCES NECESSARY FOR RECEIVING INSTALLING, TESTING AND ADJUSTING OF NEW AIR CONDITIONING SYSTEM FOR NEW EQUIPMENT ROOM.

2.0 AIR CONDITIONING SYSTEM

PROVIDE THE FOLLOWING "DX SPLIT SYSTEM":

AC SYSTEM SHALL BE A FLOOR MOUNTED FAN COIL, TOP DISCHARGE AS MANUFACTURED BY CARRIER, MODEL FB4ANF036000, 36,000 BTUH COOLING W/ UNIT MOUNTED 24V. CONTROLS, 208/230 V/10/60HZ (370 WATTS) ELECTRICAL SERVICE. UNIT SHALL BE FURNISHED COMPLETE WITH ALL STANDARD EQUIPMENT. UNIT MOUNTED CONTROLS, FAN SPEED AND TEMPERATURE CONTROL SWITCHES. UNIT SHALL ALSO COME WITH FACTORY INSTALLED, SKW ELECTRIC HEATER.

PROVIDE CARRIER THERMOSTAT, W/AUTO CHANGEOVER, NON-PROGRAMMABLE, 1-STAGE HEAT, 1-STAGE COOL, MODEL #TSTATCCNACO1.

OUTDOOR AIR COOLED CONDENSING UNIT SHALL BE CARRIER, MODEL NO. 38CKB036-3, 23OV. SINGLE PHASE, 60HZ., NOMINAL 3 TON CAPACITY. FIELD INSTALLED OPTIONS:

LOW AMBIENT CONTROL, MODEL NO. LT-32.

LOW AMBIENT SWITCH (FAN CYCLING) FOR OPERATION

DOWN TO O'F. AMBIENT.

HIGH PRESSURE CONTROL

LOW PRESSURE CONTROL
UNIT SHALL ALSO COME COMPLETE WITH WINTER
START-UP PACKAGE.

2.1 <u>INSTALLATION</u>

INSTALL AC SYSTEM IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL UNIT PLUMB, FIRMLY ANCHORED IN LOCATION INDICATED, AND MAIN—MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.

INSTALL AND CONNECT ELECTRICAL DEVICES FURNISHED BY THE MANUFACTURER BUT NOT SPECIFIED TO BE FACTORY MOUNTED. FURNISH COPY OF MANUFACTURER'S ELECTRIC—CAL CONNECTION DIAGRAM SUBMITTAL TO THE ELECTRICAL CONTRACTOR. START—UP A/C UNIT IN ACCORDANCE WITH MANUFACTURER'S START—UP INSTRUCTIONS.

TEST CONTROLS AND DEMONSTRATE COMPLIANCE WITH THE REQUIREMENTS. UNIT SHALL BE FULLY CHARGED, TESTED AND READY FOR OPERATION.

REFRIGERANT PIPING - INSTALLATION TO PROVIDE FOR EASE OF MAINTENANCE WITH ALL ACCESSORIES, SIGHT GLASS, FILTER DRIER CHARGING VALVE ETC. AS REQUIRED.

3.0 CONDENSATE PUMP UNIT

VERTICAL TYPE AUTOMATIC SELF CONTAINED PUMPING UNIT. LITTLE GIANT PUMP CO. (TECUMSEH PRODUCTS CO.) MODEL VCL-45S CAPACITY 75 GPM @ 40' HD.

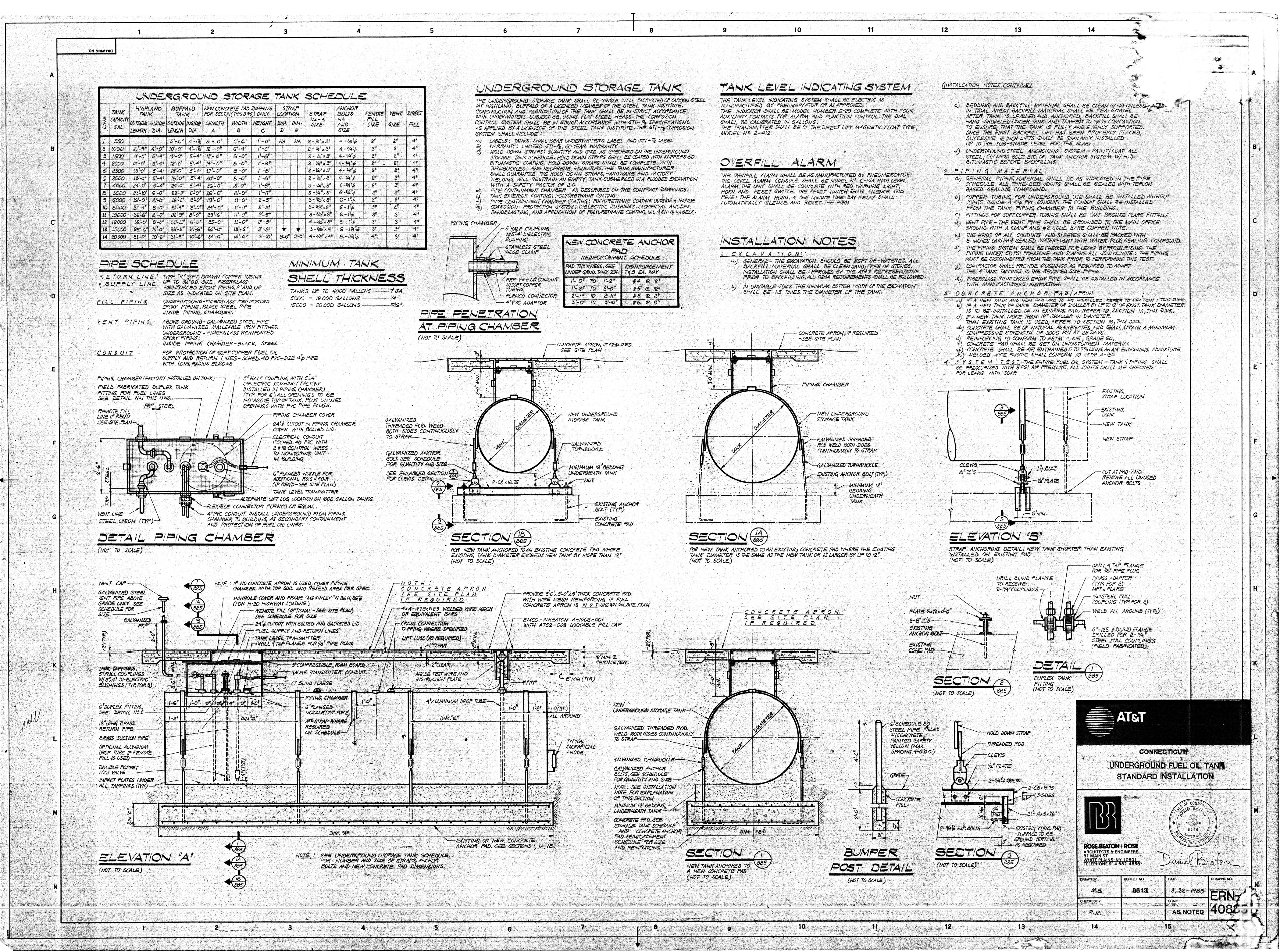
ALARM POINTS

- # 1. MAGNETIC ALARM DEVICE (INTRUDER)
- # 2. SMOKE DETECTORS
- ₩3. POWER FAILURE
- **業4**. HI−LO TEMPERATURE

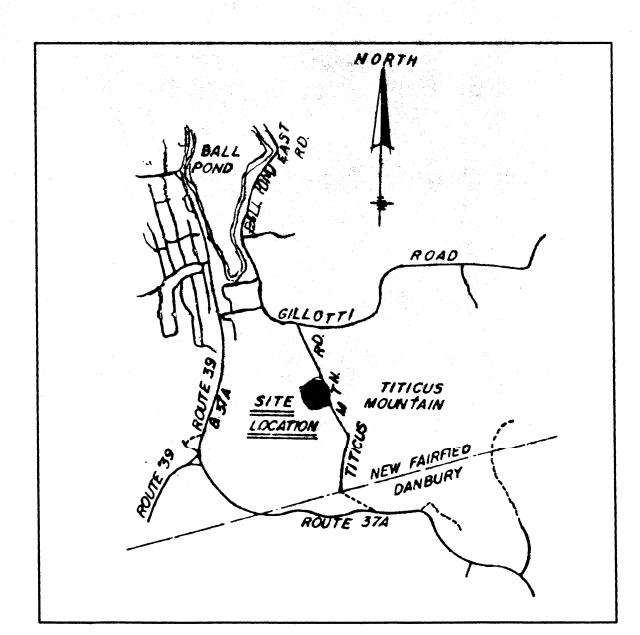
₩ ALARMS AS INCLUDED IN OWNER FURNISHED EQUIPMENT.

-	ISSUED FOR CLIENT REVIEW	TJA	15 APR 97	
REV	REVISION DESCRIPTION	BY	DATE	
E	EL ASSOCIATES ARCHITECTURE • ENGINEERING • CONSTRUCTION 115 Evergreen Pl. • E. Orange, NJ 07018 • (201)672-5100	8	ومرسهم	
GAET	ANO P. CIPRIANO PROFESSIONAL ENGINEER CT. LICENSE NO. 15383	ELEC	CTRICAL 5. NO.	
SCALE AS N	NEXIEL COMMUNICATIONS	EIA PROJECT NO. EE4444		
BY: DESIGNED BY: CHECKED .BY:	SITE # CT-0066 SITE # CT-0066 NEW FAIRFIELD, CT	EIA DRAWING	- 2	
APPROVED BY:	PWR. PLAN, PNL. & LTG. FIXT.	ISSUE DATE	8 APR 97	
PROJECT MANAGER:	SCHEDULES AND GENERAL NOTES MECHANICAL LAYOUT AND SPECS.	REVISION	_	





VICINITY MAP



SITE MAP

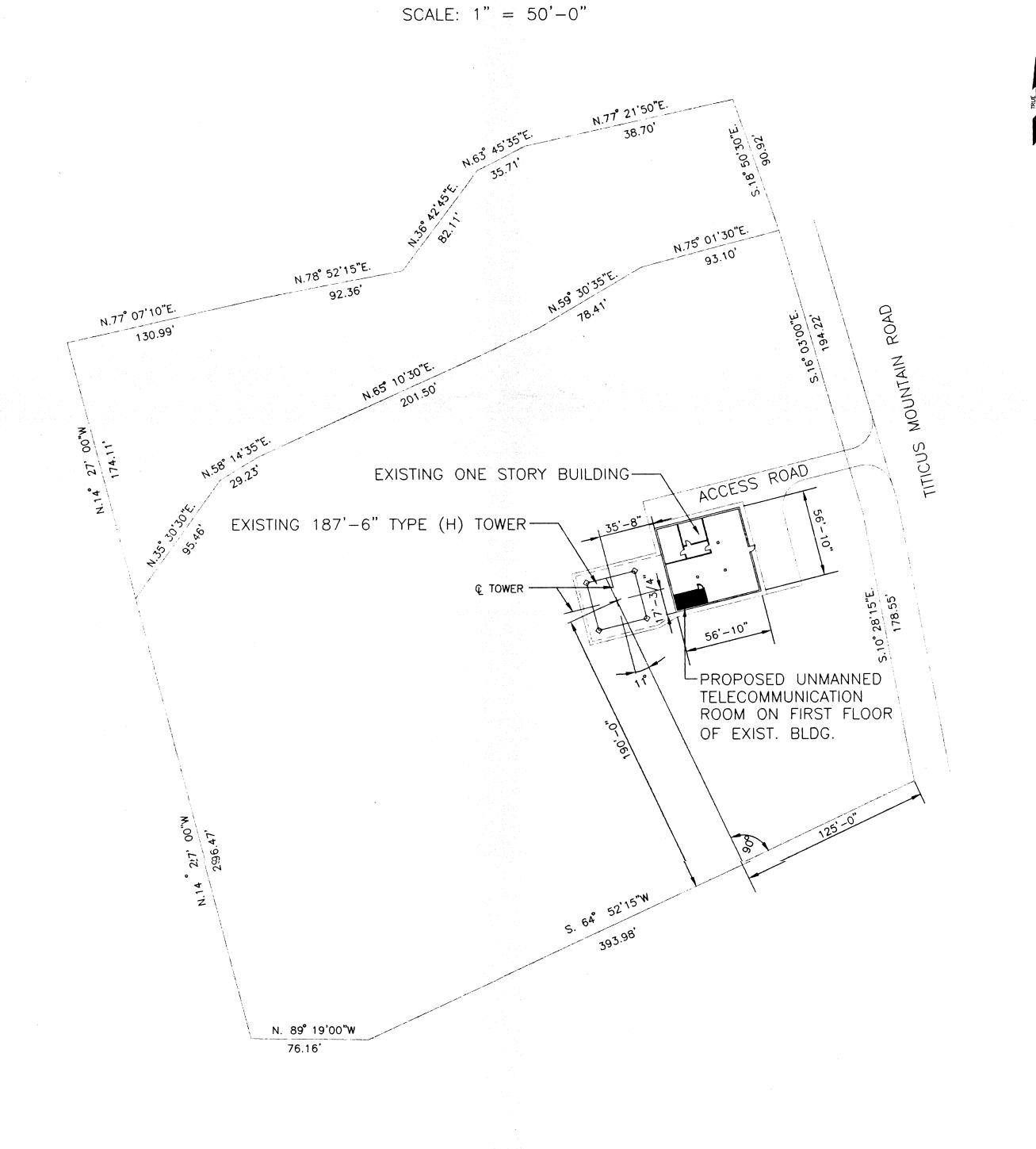
NEXTEL COMMUNICATIONS

One North Broadway, 2nd Floor White Plains, NY 10601

UNMANNED WIRELESS COMMUNICATIONS SITE Site No. CT-0066 - NEW FAIRFIELD

16 TITICUS MOUNTAIN ROAD, NEW FAIRFIELD, CT

SITE LOCATION PLAN



SITE INFORMATION/CODE ANALYSIS

LATITUDE: 73° 30' 56" LONGITUDE: 41° 27' 04"

TOWN OF NEW FAIRFIELD

ZONE: R-88

LOCATION: 16 TITICUS MOUNTAIN ROAD
NEW FAIRFIELD CT

OWNER: AT&T

268 WOLCOTT RD. WOLCOTT, CT. 06716 ATTN: MR. THOMAS C. FORD

HEIGHT OF EXISTING BUILDING: 1 STORY EXISTING BUILDING FOOTPRINT: APPROX. 3230 SQ.FT. EX. BLDG. OCCUPANCY GROUP: B (BUSINESS),

TELEPHONE EQUIPMENT SHELTER

EX. BLDG. CONSTRUCTION CLASSIFICATION: 1A BUILDING IS NOT SPRINKLERED

PROPOSED CELL SITE OCCUPANCY GROUP: B ASSUMED CONSTRUCTION CLASSIFICATION: 2C

2HR FIRE SEPARATION BETWEEN NEXTEL EQUIPMENT ROOM AND REMAINING AREA OF BUILDING

AREA OF NEW WIRELESS COMMUNICATION ROOM: 200 SQ. FT. NEW WIRELESS COMMUNICATION ROOM TO BE UNOCCUPIED LOCATION OF NEW WIRELESS COMM. ROOM: GRADE LEVEL

LIST OF DRAWINGS

- 1		
	DRAWING No.	DESCRIPTION
	T-1	COVER SHEET
	A-1	PLANS AND DETAILS
	A-2	ELEVATION AND DETAILS
	A-3	GENERAL NOTES & SPECIFICATIONS
	E-1	FLOOR, REFLECTED CEILING AND GROUNDING PLANS & DETAILS
	E-2	LIGHTING PLAN, PANELBOARD SCHEDULES AND GENERAL NOTES, MECHANICAL LAYOUT & SPECIFICATION

15 APR 9 ISSUED FOR CLIENT REVIEW REVISION DESCRIPTION

115 Evergreen Pl. • E.Orange, NJ 07018 • (201)672-5100

PROJECT

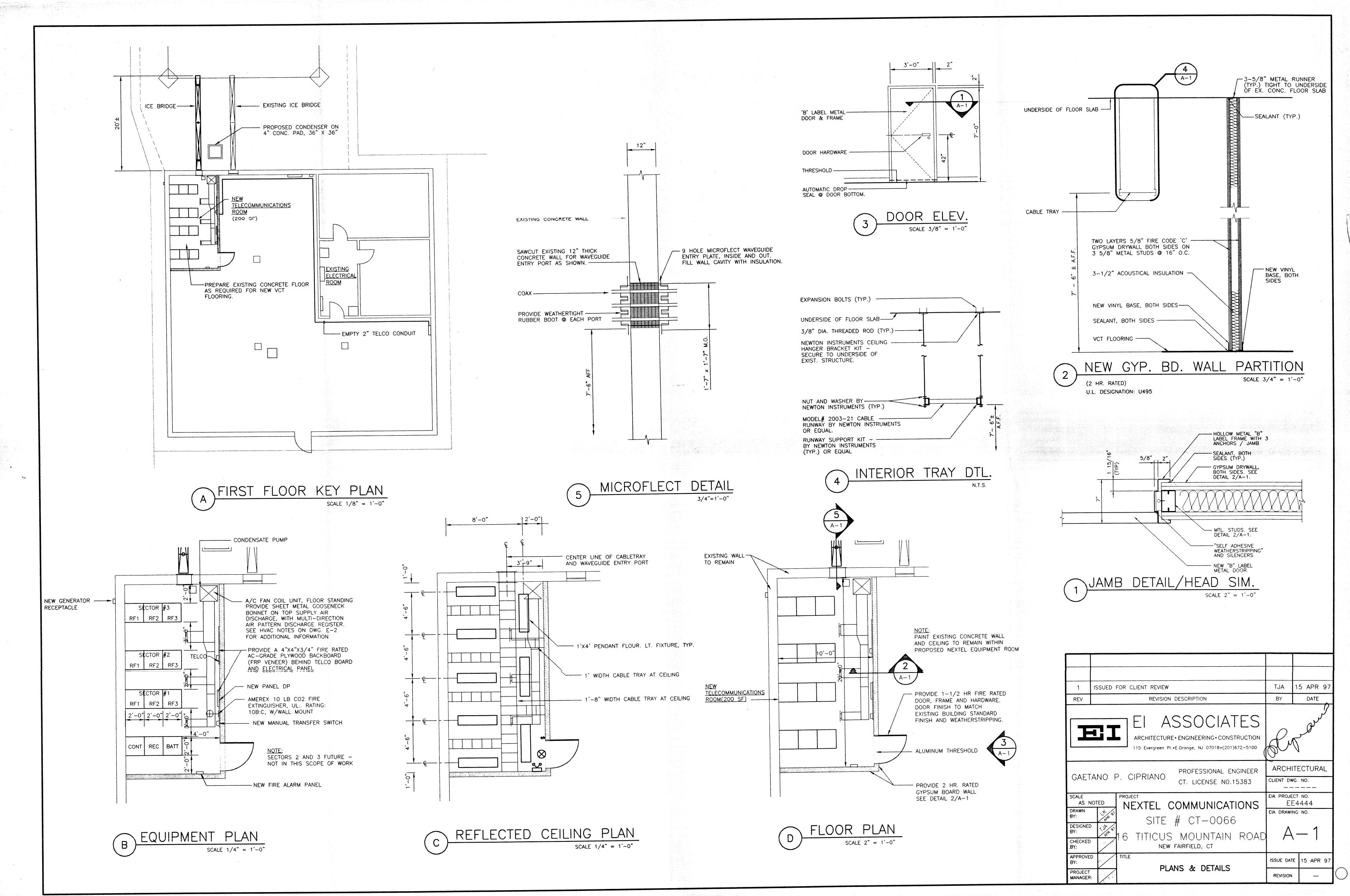
PROFESSIONAL ENGINEER CT. LICENSE NO.15383

EE4444 NEXTEL COMMUNICATIONS EIA DRAWING NO. SITE # CT-0066 ____

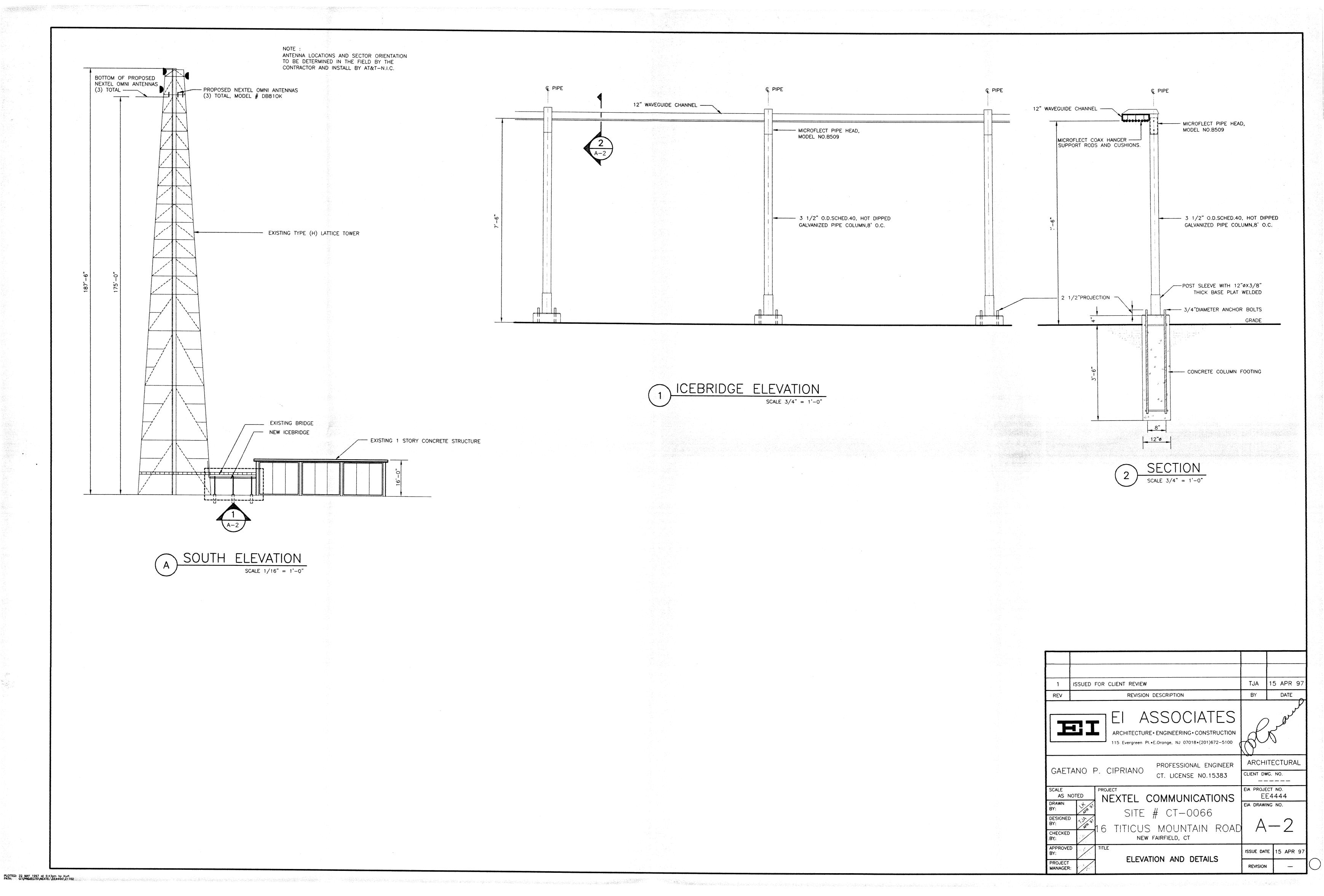
6 TITICUS MOUNTAIN ROAD NEW FAIRFIELD, CT

COVER SHEET

ISSUE DATE 15 APR REVISION



PLOTTED: 22 MAY 1997 ot 6:42pm by Kurt



ARCHITECTURAL

01000 - GENERAL NOTES

- ALL WORK SHALL COMPLY WITH RULES AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION.
- B. ALL DIMENSIONS SHALL BE VERIFIED AT THE JOB BY THE CONTRACTOR AND EACH SUB-CONTRACTOR. OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES
- C. PATCH ALL EXISTING WORK, TO REMAIN, TO MATCH ADJACENT CONDITIONS WHERE REQUIRED DUE TO

BEFORE PROCEEDING WITH THE WORK.

- DEMOLITION WORK. D. IN GENERAL, NEW MATERIALS AND MATERIALS FOR REPAIR CONDITIONS SHALL MATCH SIMILAR ITEMS IN QUALITY. DETAIL, PROFILE AND FINISH AS THOSE ALREADY BUILT
- E. CONTRACTOR SHALL REFER QUESTIONS ON MATERIALS FINISHES, LABOR AND/OR PERFORMANCE STANDARDS NOT SPECIFIED HEREIN TO NEXTEL.
- F. DAMAGED UTILITIES AND IMPROVEMENTS SHALL BE REPAIRED WITH NO ADDITIONAL COST TO OWNER AND TO NEXTELS' SATISFACTION.
- G. ALL CONTRACTORS TO PROVIDE ALL SAFETY MEASURES REQUIRED TO PROVIDE A SECURE SITE DURING CONSTRUCTION. ALL REQUIRED EXITWAYS FOR PROTECTION
- OF LIFE AND PROPERTY ARE TO BE MAINTAINED. H. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
- I. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND FAMILIARIZING HIMSELF WITH ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID CONTRACTOR SHALL COORDINATE HIS WORK WITH NEXTEL
- SO THAT THERE IS NO INTERFERENCE WITH OWNER'S PERSONNEL OR WORK SCHEDULE. ANY CONFLICTS WITH NEW CONSTRUCTION AND EXISTING CONDITIONS OR EQUIPMENT, ETC. ARE TO BE BROUGHT THE ATTENTION OF NEXTEL PRIOR TO PROCEEDING WITH

02110 - GENERAL DEMOLITION NOTES

- PROVIDE ALL NECESSARY DEMOLITION FOR ALTERATION AS INDICATED ON THIS AND OTHER APPLICABLE DRAWINGS, AND AS MAY OTHERWISE BE NEEDED.
- PROVIDE AND MAINTAIN ALL TEMPORARY BRACING REQUIRED TO AVOID COLLAPSE AND PREVENT DAMAGE DURING CONSTRUCTION.
- COORDINATE ALL DEMOLITION AND CONSTRUCTION WORK WITH OTHER TRADES.
- CONTRACTOR SHALL PROTECT ALL EXISTING ROOMS AND WORK AREA FROM CONSTRUCTION DIRT AND DUST, WATER AND ALL OTHER TYPES OF DAMAGES DUE TO DEMOLITION AND CONSTRUCTION PROCESSES.
- EXISTING DOORS AND CABINETS WHICH ARE TO BE REMOVED ARE TO BE TAKEN TO THE STORAGE UNIT AS DIRECTED BY THE OWNER.

02115 - CUTTING AND PATCHING

I. GENERAL

- WORK INCLUDED UNDER THIS SECTION IS SUBJECT TO THE AGREEMENT, GENERAL CONDITIONS AND CONTRACT DRAWINGS, ALL OF WHICH ARE HEREBY MADE A PART OF THIS SECTION.
- PROVIDE ALL MATERIALS, LABOR AND SUPERVISION, EQUIPMENT AND APPLIANCES REQUIRED TO COMPLETE WORK OF THIS SECTION INCLUDING BUT NOT NECESSARILY LIMITED TO THE FOLLOWING:
- A. WORK AS INDICATED ON THE DRAWINGS & SPECIFICATIONS.

II. MATERIALS

MATERIALS FOR REPLACEMENT, REPAIRING, PATCHING, RESTORATION, & SIMILAR WORK SHALL CONFORM TO APPLICABLE SPECIFICATIONS FOR NEW MATERIALS OR WORK, WHERE MATERIALS AND/OR INSTALLATIONS ARE NOT COVERED BY THE SPECIFICATIONS, SUCH MATERIALS SHALL MATCH EXISTING TO THE GREATEST EXTENT POSSIBLE. ALL EXCESS MATERIALS RESULTING FROM CUTTING & REMOVAL WORK SHALL BE REMOVED FROM THE JOB SITE IN AN APPROVED MANNER.

III. EXECUTION

- PRIOR TO CUTTING OR UNCOVERING WORK, PROVIDE ALL SHORING, BRACING & SUPPORTS AS REQUIRED TO MAINTAIN THE STRUCTURA INTEGRITY OF THE PROJECT. PRIOR TO RESTORING WORK, PROPERLY PREPARE EXISTING SURFACES TO RECEIVE NEW MATERIALS SUCH AS TO PROVIDE A PROPER BOND OR JOINING. TEMPORARY PROTECTION FROM WIND AND STORM DAMAGE SHALL BE PROVIDED WHENEVER OPENINGS ARE CUT IN EXTERIOR OF BUILDING.
- CUTTING AND DRILLING CONTRACTOR SHALL REMOVE ALL MATERIAL DESIGNATED FOR REMOVAL AS NECESSARY FOR INSTALLATION OF THE NEW WORK. CUTTING SHALL PERFORMED BY HAND OR SMALL POWER TOOLS; HOLES AND SLOTS BE PERFORMED BY HAND OR SMALL POWER TOOLS; HOLES AND SLOT CUT NEAT AND TO SIZE REQUIRED, WITH MINIMUM DISTURBANCE OF ADJACENT WORK. OPENINGS SHALL BE COVERED TEMPORARILY WHEN NOT IN USE AND PATCHED AS SOON AS WORK IS INSTALLED. THE US OF GAS FIRED, AND OR DIESEL EQUIPMENT WILL NOT BE PERMITTED. THE USE OF ELECTRICAL EQUIPMENT WILL BE PERMITTED ONLY WITH THE PRIOR APPROVAL OF THE OWNER.
- C. PATCHING AND REPAIRS EXISTING WORK SHALL BE CUT, ALTERED, REMOVED, TEMPORARILY REMOVED AND REPLACED, OR RELOCATED AS REQUIRED FOR THE PERFORMANCE OF THE WORK INDICATED ON THE DRAWINGS. COORDINAT ALL PATCHING AND REPAIR WORK BEFORE BEGINNING WORK. ALTERATION WORK WILL REQUIRE REPAIRING AND REARRANGEMENT OF EXISTING WORK THE MATERIALS AND METHODS OF APPLICATION FOR NEW WORK AND FOR RESTORING OR REFINISHING EXISTING WORK SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE SPECIFICATIONS EXCEPT THAT

MATERIALS AND WORKMANSHIP NOT COVERED IN THE COMPLETED WORK

SHALL CONFORM TO SIMILAR MATERIALS AND WORKMANSHIP EXISTING IN OR ADJACENT TO THE SPACE IN WHICH ALTERATIONS ARE TO BE MADE.

ANTENNA SUPPORT STEEL A. UNLESS OTHERWISE NOTED:

- - ALL SHIMS, SHAPES AND PLATES SHALL CONFORM TO ASTM A36.
 - 2. ALL PIPES SHALL BE ASTM A53, TYPE E OR S, GRADE B (Fy=35 KSI).
- B. GALVANIZING ALL STEEL AND CONNECTION MATERIAL TO BE EXPOSED TO
 - WEATHER (ANTENNAE AND CABLE SUPPORTS) SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AND A153. TOUCH-UP FIELD WELD AREAS WITH ZINC RICH PAINT. PROVIDE TNEMEC 90-93 OR EQUAL.

05500 - MISCELLANEOUS METALS HOLLOW METAL WORK

I. GENERAL

PLOTTED: 22 MAY 1997 at 6:44pm by Kurt
PATH: G: PROJECTS NEXTEL EE4444 21103

05000 - METALS

- A. SUBMITTALS
- SHOP DRAWINGS: SUBMIT COMPLETE SHOP DRAWINGS INCLUDING SCHEDULES, CONSTRUCTION DETAILS, METHOD OF ANCHORAGE AND GAUGES OF METAL FOR APPROVAL. II. MATERIALS
- A. DOORS: DOORS SHALL BE 1-3/4" THICK, 1 1/2 HR. "B" LABEL. FABRICATED FROM 18 GAUGE STEEL SHEETS FOR INTERIOR DOORS. CONSTRUCTION SHALL CONFORM TO STEEL DOOR INSTITUTE STANDARD SDI-100.

AND SELF-EXTINGUISHING TYPE.

- THE INTERIOR OF THE DOORS SHALL BE COMPLETELY FILLED WITH A RIGID URETHANE CORE FOAMED IN PLACE AND CHEMICALLY BONDED TO ALL INTERIOR SURFACES. URETHANE FOAM SHALL BE SELF-BONDING, SELF-HARDENING
- DOORS SHALL HAVE FLUSH SEAMLESS FACE SHEETS WITH VERTICAL EDGE JOINT BETWEEN FACE SHEETS COMPLETELY FILLED AND GROUND SMOOTH TO PROVIDE A SEAMLESS
- TOP AND BOTTOM OF DOORS SHALL BE CLOSED FLUSH BY 16 GAUGE STEEL CHANNELS.

- DOORS SHALL BE MORTISED FOR 4-1/2" TEMPLATE TYPE HINGES. HINGE REINFORCEMENT SHALL BE 7 GAUGE STEEL DRILLED AND TAPPED BY THE DOOR MANUFACTURER. OTHER HARDWARE REINFORCEMENT AND PREPARATION SHALL COMPLY WITH STEEL DOOR INSTITUTE STANDARD SDI-107. DOORS PREPARED FOR LITES SHALL HAVE THE OPENINGS
- FRAMED AND SECURELY ATTACHED. GLAZING BEADS SHALL THE PRODUCT OF THE CECO COMPANY AND PIONEER INDUSTRIES WHICH CONFORM TO THESE SPECIFICATIONS ARE APPROVED FOR USE. OTHERS MAY BE USED IF
- APPROVED EQUAL. LOCKSET SHALL BE SIMPLEX 1000 WITH STRIKE, SATIN FINISH (NO SUBSTITUTES).

- A. FRAMES SHALL BE CONSTRUCTED TO CONFORM TO STEEL DOOR INSTITUTE STANDARD SDI-100.
- B. FRAMES SHALL BE FORMED FROM 16 GAUGE STEEL FRAMES SHALL BE KNOCKED-DOWN FIELD-ASSEMBLED TYPE, FRAME HEAD AND JAMB MEMBERS SHALL HAVE DIE-CUT, MITERED CORNERS AND "LOCK-TAB"
- FRAMES SHALL HAVE 5/8" HIGH INTEGRAL STOPS AND 2" FACES, UNLESS OTHERWISE DETAILED.
- HINGE REINFORCEMENT SHALL BE 7 GAUGE STEEL UNIVERSAL TYPE STRIKE REINFORCEMENT SHALL BE 12 GAUGE STEEL. JAMBS SHALL BE MORTISED FOR 4-1/2" TEMPLATE HINGES AND FOR UNIVERSAL LOCK STRIKE PER ANSI A 115.1 AND .2. ALL REIN-FORCEMENT SHALL BE DRILLED AND TAPPED BY THE FRAME MANUFACTURER PER HARDWARE TEMPLATES. HEADS SHALL BE MORTISED AND REINFORCED FOR CLOSERS PER HARDWARE TEMPLATES, WHEN REQUIRED.
- JAMB ANCHOR: FURNISH JAMB ANCHORS AS REQUIRED TO SECURE FRAMES IN ADJACENT CONSTRUCTION, FORMED OF NOT LESS THAN 18 GAUGE STEEL
 - 2. FLOOR ANCHOR: PROVIDE FLOOR ANCHORS FOR EACH JAMB AND MULLION WHICH EXTENDS TO FLOOR, FORMED OF NOT

D. SHOP PAINTING

- APPLY PRETREATMENT TO CLEANED METAL SURFACES, USING COLD PHOSPHATE SOLUTION (SSPC-PT2), HOT PHOSPHATE SOLUTION (SSPC-PT4) OR BASIC ZINC CHROMATE-VINYL BUTYL SOLUTION (SSPC-PT3).
- 2. APPLY SHOP COAT OF RUST INHIBITING PRIME PAINT WITHIN TIME LIMITS RECOMMENDED BY PRETREATMENT MANUFACTURER. APPLY A SMOOTH COAT OF EVEN CONSISTENCY TO PROVIDE A UNIFORM DRY FILM THICKNESS OF NOT LESS THAN 2.0 MILS.

- FINAL ADJUSTMENTS: CHECK AND READJUST OPERATING FINISH HARDWARE ITEMS IN HOLLOW METAL WORK JUST PRIOR TO FINAL INSPECTION. LEAVE WORK IN COMPLETE AND PROPER OPERATING CONDITION. REMOVE AND REPLACE DEFECTIVE WORK, INCLUDING DOORS OR FRAMES WHICH ARE WARPED, BOWED OR OTHERWISE UNACCEPTABLE.
- PRIME COAT TOUCH-UP: IMMEDIATELY AFTER ERECTION, SAND SMOOTH ANY RUSTED OR DAMAGED AREAS OF PRIME COAT AND APPLY TOUCH-UP COMPATIBLE AIR-DRYING

1. ALL FIRESTOP MATERIALS AND ASSEMBLIES SHALL BE PROVIDED BY '3M FIRE PROTECTION PRODUCTS' OR APPROVED EQUAL. MANUFACTURER SHALL DETERMINE APPROPRIATE SYSTEM PER INDIVIDUAL APPLICATION SO AS TO MAINTAIN REQUIRED FIRE

07900 - CAULKING AND SEALING

GENERAL

- WORK INCLUDED UNDER THIS SECTION IS SUBJECT TO THE AGREEMENT, GENERAL CONDITIONS AND CONTRACT DRAWINGS, ALL OF WHICH ARE HEREBY MADE A PART OF THIS SECTION.
- PROVIDE ALL MATERIALS, LABOR AND SUPERVISION, EQUIPMENT AND APPLIANCES REQUIRED TO COMPLETE WORK OF THIS SECTION INCLUDING BUT NOT NECESSARILY LIMITED TO THE FOLLOWING: 1. INTERIOR JOINTS
 - A. EXPANSION AND CONTROL JOINTS SEALANT #1. B. OTHER INTERIOR JOINTS AS INDICATED ON THE
- DRAWINGS SEALANT #2.
- SUBMIT SAMPLES OF ALL SEALANT MATERIALS FOR APPROVAL BY OWNER'S REPRESENTATIVE, ACCOMPANIED BY A CERTIFICATE FOR EACH TYPE SHOWING COMPLIANCE WITH THE REQUIREMENTS OF THIS SPECIFICATION.
- SUBMIT COLOR CHARTS (OR SAMPLES) FOR COLOR
- SUBMIT SCHEDULE, INDICATING USE LOCATIONS OF EACH SEALANT TYPE SUBMITTED, FOR APPROVAL.
- II. MATERIALS THE SEALANTS LISTED BELOW ARE THE PRODUCTS OF TREMCO INCORPORATED AND THE SIKA CORPORATION AND ARE GIVEN AS REFERENCE STANDARDS FOR THE WORK OF THIS SECTION. EQUAL PRODUCTS BY THE PECORA CORPORATION, GENERAL ELECTRI - SILICONE PRODUCTS DIVISION AND DOW-CORNING WILL E ACCEPTABLE, SUBJECT TO THESE SPECIFICATIONS.
 - SEALANT #1 SHALL BE A ONE-PART POLYURETHANE SEALANT MEETING FEDERAL SPECIFICATION TT-S-00230C, CLASS A, TYPE II, SUCH AS SIKAFLEX-LA.
 - SEALANT #2 SHALL BE A ONE-PART ACRYLIC LATEX SEALANT SUCH AS TREMCO ACRYLIC LATEX CAULK.
 - PRIMER FOR SEALANTS SHALL BE AS RECOMMENDED BY SEALANT MANUFACTURER.
 - JOINT FILLER FOR SEALANT SHALL BE A CLOSED CELL, NON-ABSORBENT, NON-STAINING MATERIAL SUCH AS ETHAFOAM AS MANUFACTURED BY DOW-CORNING.
 - BONDBREAKERS SHALL BE AS RECOMMENDED BY SEALANT MANUFACTURER. COLORS FOR SEALANTS SHALL BE AS SELECTED BY THE OWNER FROM MANUFACTURERS COLOR CHART AND/OR COLORS SHALL MATCH ADJACENT SURFACES.
 - F. DELIVERY AND STORAGE MATERIALS SHALL BE DELIVERED TO THE JOB IN SEALED CONTAINERS WITH MANUFACTURER'S ORIGINAL LABELS
 - MATERIALS SHALL BE STORED UNDER THE ENVIRONMENTAL CONDITIONS RECOMMENDED BY THE MANUFACTURER.

III. EXECUTION A. SURFACE PREPARATION

- JOINTS AND SURFACES WHICH ARE TO BE CAULKED OR SEALED SHALL BE CLEAN, DRY AND FREE OF DUST, LOOSE MORTAR AND OTHER FOREIGN MATERIALS.
- B. APPLICATION INSTALL JOINT BACKING WITH A BLUNT INSTRUMENT SO AS NOT TO PUNCTURE THE SURFACE SKIN. SIZE OF JOINT BACKING SHOULD BE DETERMINED BY TAKING THE JOINT WIDTH AND ADDING 25% TO ASSURE PROPER COMPRESSION
 - OF BACKER ROD. APPLY SEALANT WITH A CAULKING GUN, USING PROPER SIZED NOZZLES. USE SUFFICIENT PRESSURE TO PROPERLY FILL THE JOINTS WITH SEALANT TO THE BACK-UP MATERIAL. PROVIDE MASKING TAPE FOR EXACT BEAD LINES. APPLY TAPE AFTER SURFACE CONDITIONER IS
- AFTER JOINTS HAVE BEEN COMPLETELY FILLED, THEY SHALL BE NEATLY TOOLED TO ELIMINATE AIR POCKETS OR VOIDS, AND TO PROVIDE A SMOOTH, NEAT APPEARING FINISH IN INTIMATE CONTACT WITH INTERFACING SURFACES. AFTER TOOLING, SURFACE OF SEALANT SHALL BE FREE OF RIDGES, WRINKLES, SAGS, AIR POCKETS AND
- IMMEDIATELY CLEAN ADJACENT MATERIALS WHICH HAVE BEEN SOILED; LEAVE WORK IN A NEAT, CLEAN CONDITION.
- DO NOT APPLY SEALANT WHEN SURFACE TEMPERATURE OF MATERIALS IS BELOW OR ABOVE THAT RECOMMENDED BY THE MANUFACTURER.

WORKMANSHIP SHALL BE IN STRICT COMPLIANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER OF THE MATERIALS. THE CONTRACTOR SHALL BE PREPARED TO SHOW EVIDENCE OF WORKMANSHIP OF JOBS AT LEAST THREE YEARS OLD.

08735 - Weatherstripping, seals & Thresholds

WORK INCLUDED UNDER THIS SECTION IS SUBJECT TO THE AGREEMENT, GENERAL CONDITIONS AND CONTRACT DRAWINGS, ALL OF WHICH ARE HEREBY MADE A PART OF THIS SECTION.

- SCOPE
- PROVIDE ALL MATERIAL, LABOR AND SUPERVISION, EQUIPMENT AND APPLIANCES REQUIRED TO COMPLETE WORK OF THIS SECTION INCLUDING BUT NOT NECESSARILY LIMITED TO THE FOLLOWING:
- WEATHERSTRIPPING
- THRESHOLDS AUTOMATIC DOOR BOTTOMS

I. MATERIALS THIS SPECIFICATION IS BASED UPON THE PRODUCTS OF PEMKO MANUFACTURING COMPANY, UNLESS OTHERWISE NOTED. SIMILAR PRODUCTS BY REESE ENTERPRISES, INC., OR ZERO WILL ALSO

- BE ACCEPTABLE SUBJECT TO THESE SPECIFICATION REQUIREMENTS A. WEATHERSTRIPPING AT HEAD AND JAMBS OF HOLLOW METAL DOORS, PEMKO MODEL #319C, CLEAR ANODIZED ALUMINUM FINISH.
- B. THRESHOLDS, ZERO MODEL #1675A, ALUMINUM.
- AUTOMATIC DOOR BOTTOM, PEMKO MODEL #411AR, AT NEW DOOR INTO TELECOMMUNICATION ROOM.
- D. DOOR SILENCERS, HAGER HINGE COMPANY, MODEL #3070, 3 PER JAMB.
- A. CAREFULLY COORDINATE THE WORK OF THIS SECTION WITH HOLLOW

B. INSTALL COMPONENTS IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. 09250 - GYPSUM DRYWAL

A. DOCUMENTS

- GENERAL
 - WORK INCLUDED UNDER THIS SECTION IS SUBJECT TO THE AGREEMENT GENERAL CONDITIONS, AND CONTRACT DRAWINGS, ALL OF WHICH ARE HEREBY MADE A PART OF THIS SECTION.
 - PROVIDE ALL MATERIALS, LABOR AND SUPERVISION, EQUIPMENT AND APPLIANCES REQUIRED TO COMPLETE WORK OF THIS SECTION INCLUDING
 - BUT NOT NECESSARILY LIMITED TO THE FOLLOWING:
 - GYPSUM WALLBOARD ACCESSORIES.

PAINTING

RELATED WORK SPECIFIED ELSEWHERE

MATERIALS

- A. PRODUCTS
 - STANDARD GYPSUM WALL BOARD, FIRE CODE 'C', 5/8" THICK X 4'-0" WIDTH X LENGTH REQUIRED TO ELIMINATE HORIZONTAL JOINTS (MAXIMUM 14'-0"). BOARDS SHALL HAVE TAPERED, BEVELED
 - BEVELED EDGES. ASTM COMPLIANCE C-36.
 - STUDS AND RUNNERS: GALVANIZED STEEL, 1" 'Z' FURRING STRIPS 1-5/8" AND 3-5/8" WIDE ASTM COMPLIANCE C 645. (SEE PLAN FOR
 - B. CEILING RUNNERS AND HANGERS: GALVANIZED STEEL, 1-1/2" RUNNERS AND 1/2" (25 MSG) RESILIENT FURRING CHANNELS
 - C. SCREWS: STEEL, CORROSION RESISTANT, BUGLE HEAD, LENGTH AS RECOMMENDED BY WALL BOARD MANUFACTURER
 - FOR MATERIALS SPECIFIED. ASTM COMPLIANCE C 646. D. TAPE AND SPACKLING COMPOUND: USE WATER RESISTANT
 - JOINT COMPOUND. 3. ACOUSTICAL INSULATION (09530):
 - A. INSTALL ACOUSTICAL INSULATION IN ACCORDANCE WITH MANUFCTURER'S RECOMMENDATIONS. B. ALL GYPSUM BOARD PARTITIONS RECEIVING ACOUSTICAL INSULATION SHALL HAVE ALL BUTTING PERIMETERS

OF GYPSUM BOARD AND ANY ELECTRIC OR DUCT

PENETRATIONS SEALED WITH ACOUSTICAL SEALANT. APPROVED MANUFACTURERS

SUBJECT TO THESE SPECIFICATIONS:

THE FOLLOWING MANUFACTURERS' PRODUCTS ARE ACCEPTABLE

FLINTKOTE

- U.S. GYPSUM GOLD BOND
- C. INSTALLATION/FASTENERS INSTALLATION AND FASTENERS TYPE IN ACCORDANCE WITH

MANUFACTURER'S RECOMMENDATIONS.

09650 - RESILIENT FLOORING

- VINYL WALL BASE:FS SS-W-40, TYPE II, 4" HIGH, 0.080" GAGE, WITH MATCHING STOPS & PREFORMED CORNER UNITS, STANDARD TOP-SET COVE, UNLESS OTHERWISE NOTED.
- APPLY WALL BASE IN LENGTHS AS LONG AS PRACTICABLE TO WALLS, COLUMNS, AND ALL PERMANENET FIXTURES WHERE INDICATED. MITERED OUTSIDE CORNERS ARE NOT ACCEPTABLE

09900 - PAINTING

- I. GENERAL
- A. SUBMITTALS MANUFACTURER'S DATA: SUBMIT TWO COPIES OF MANUFACTURER'S TECHNICAL INFORMATION INCLUDING
- OF EACH MANUFACTURER'S INSTRUCTIONS TO THE PAINT APPLICATOR.
- B. APPROVED MANUFACTURERS OR APPROVED EQUAL 1. CON-LUX, BENJAMIN MOORE, SHERWIN WILLIAMS OR GLIDDEN

PAINT LABEL ANALYSIS AND APPLICATION INSTRUCTIONS

FOR EACH MATERIAL PROPOSED FOR USE. TRANSMIT A COPY

II. EXECUTION

DUST AND DIRT HAS BEEN COMPLETED.

- A. INSPECTION AND PREPARATION DO NO PAINTING UNTIL OTHER WORK LIKELY TO CAUSE
- DO NOT PAINT OVER DIRT, DUST, SCALE, GREASE, MOISTURE, SCUFFED SURFACES, OR CONDITIONS OTHERWISE DETRIMENTAL TO THE FORMATION OF A DURABLE PAINT
- PROTECT ALL ADJACENT SURFACES AND MATERIALS FROM PAINTING OPERATIONS. USE DROP CLOTHS TO PROTECT ADJACENT CONSTRUCTION. USE AN EASILY REMOVABLE MASKING TAPE TO PROTECT SURFACES, WHICH ARE NOT TO BE PAINTED OR WHERE A SHARP LINE IS REQUIRED AT THE TERMINATION OF A PAINTED AREA.
- B. APPLICATION
 - APPLY PAINT IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS.

C. CLEAN-UP AND PROTECTION

- DURING THE PROGRESS OF THE WORK, REMOVE FROM THE SITE ALL DISCARDED PAINT MATERIALS, RUBBISH, CANS AND RAGS AT THE END OF EACH WORK DAY, AT COMPLETION OF PAINTING WORK, REMOVE ALL TOOLS, AND SURPLUS
- UPON COMPLETION OF PAINT WORK, CLEAN WINDOW GLASS AND OTHER PAINT-SPATTERED SURFACES. REMOVE SPATTERED PAINT BY PROPER METHODS OF WASHING AND SCRAPING, USING CARE NOT TO SCRATCH OR OTHERWISE DAMAGE FINISHED SURFACES.

D. PAINT SCHEDULE (BASED OFF CON-LUX)

- INTERIOR PAINT SYSTEMS
- FERROUS METAL SHOP COAT 2 COATS SATIN-PLEX
- GYPSUM BOARD 1 COAT JET-PLEX 2 COATS SATIN-PLEX
- 2. EXTERIOR PAINT SYSTEMS
 - PRIME / FINISH: PAINT NEW MASONRY INFILL PER OWNER'S REQUIREMENTS, MATCH ADJOINING AREAS.
- FERROUS METAL SHOP COAT 2 COATS STEEL GUARD

16000 - ELECTRICAL

. GENERAL

- A. DOCUMENTS ALL WORK INCLUDED UNDER THIS SPECIFICATION IS SUBJECT TO THE AGREEMENT, THE GENERAL CONDITIONS OF THE CONTRACT, SUPPLEMENTARY GENERAL CONDITIONS, SPECIAL CONDITIONS, AND THE CONTRACT DRAWINGS.
- PROVIDE ALL MATERIALS, LABOR, EQUIPMENT AND APPLIANCES REQUIRED TO COMPLETE WORK OF THIS SECTION, INCLUDING BUT
- NOT NECESSARILY LIMITED TO THE FOLLOWING: OUTLETS, PLATES & CABLE TRAYS. LIGHTING FIXTURES & LAMPS. TELEPHONE SERVICE DISTRIBUTION PANELBOARD. 8. GROUNDING. SAFETY SWITCHES ANTENNA CABLES & ACCESSORIES LIGHTING CIRCUITS.
- C. REFERENCE DRAWINGS AND COORDINATION
- 1. ALL DRAWINGS LISTED ON TITLE PAGE OF PLANS INCLUDING ELECTRICAL DRAWINGS. CONSIDERED AS MUTUALLY COMPLEMENTARY. ANYTHING SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS AND NOT INDICATED ON THE DRAWINGS

SHALL BE CONSIDERED AS BOTH SHOWN AND SPECIFIED.

- D. OTHER TRADES BIDDERS SHALL EXAMINE THE SITE AND THE COMPLETE SET OF PLANS AND SPECIFICATIONS COVERING THE ENTIRE PROJECT. THEY SHALL BECOME FULLY CONVERSANT WITH THE TYPE OF GENERAL CONSTRUCTION AND ALL PERTINENT FACTS AFFECTING THE COST OF CARRYING OUT THE WORK THEY WILL CONTRACT TO PERFORM.
- 2. THIS CONTRACTOR SHALL CHECK CAREFULLY WITH OTHER CONTRACTORS SO AS TO COORDINATE THE LOCATION OF ELECTRICAL EQUIPMENT WITH THE WORK OF OTHER TRADES.

ALL THE WORK SHALL BE CARRIED OUT IN CONFORMITY WITH THE RULES AND REGULATIONS OF THE N.E.C., NEXTEL GROUNDING SPECIFICATIONS AND OF THE VARIOUS AGENCIES HAVING JURISDICTION CONTRACTOR SHALL MAKE THE NECESSARY APPLICATIONS, PAY THE REQUIRED FEES, SECURE THE PROPER PERMITS AND FURNISH THE ENGINEERS WITH CERTIFICATES OF APPROVAL OF THEIR WORK WITH APPLICATION FOR FINAL PROMERT APPLICATION FOR FINAL PAYMENT

CONSTRUED TO ALLOW INSTALLATION WHICH DOES NOT MEET ABOVE CODES AND REGULATIONS.

F. VISITING THE PREMISES THE ELECTRICAL CONTRACTOR IS REQUIRED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS TO BE MET IN INSTALLING THE WORK AND OTHER WORK NOT DEFINITELY SPECIFIED OR SHOWN TO PROPERLY INSTALL THE COMPLETE SYSTEM AS NO ADDITIONAL ALLOWANCE WILL BE MADE FOR ANY CHANGES HE MAY BE REQUIRED TO MAKE DUE TO EXISTING

NOTHING IN THESE DRAWINGS AND SPECIFICATIONS SHALL

CONDITIONS

II. PRODUCTS

N.E.C. REQUIREMENTS.

A. APPROVED MANUFACTURERS THE CATALOG NUMBER AND THE NAMES OF MANUFACTURERS INDICATE MATERIALS REQUIRED. THE PURCHASE AND INSTALLATION OF NEW SUBSTITUTE MATERIALS WILL NOT BE PERMITTED UNLESS

APPROVAL IS OBTAINED IN WRITING, PRIOR TO BIDDING.

- 1. THE CONTRACTOR SHALL INSTALL A NEW 200 AMPERE, FUSIBLE, NEMA 1, DISCONNECT SWITCH 208V, 3 PHASE AT POINT OF NEW SERVICE ENTRANCE IN 1ST FLOOR AS SHOWN ON CONTRACT DWGS. GROUNDING SHALL BE ACCOMPLISHED BY TIEING #6 AWG GROUND WIRE TO EX. WATER MAIN. SEE GROUNDING SECTION OF SPEC THE CONTRACTOR SHALL RUN A DEDICATED 2-1/2" GALVANIZED STEEL RACEWAY FROM THE NEW SERVICE ENTRANCE IN 1ST FLOOR TO A POINT NEAR THE TELECOMMUNICATION ROOM AS SHOWN ON THE DRAWINGS. SUPPORT THE CONDUIT NEAR THE CEILING AS REQUIRED. CONTRACTOR SHALL EXTEND 2-1/2" CONDUIT TO THE MAIN DISCONNEC SWITCH IN THE 1ST FLOOR CELL SITE. THE 2-1/2" GALVANIZED STEE RACEWAY SHALL CARRY 1-#6 AWG, THWN TYPE CABLES & 4-4/0 AWG GROUNDING WIRES. THE CONTRACTOR SHALL INSTALL JUNCTION BOXES PER N.E.C. REQIOREMENTS.
- 2. THIS CONTRACTOR SHALL OBTAIN FROM THE UTILITY COMPANY A LIST OF EQUIPMENT NECESSARY FOR THE MOUNTING OF THE CHECK METERING FACILITIES, AND SHALL PROVIDE AND MOUNT SAME WITH THE UTILITY COMPANY'S INSTRUCTION.

C. TELEPHONE SERVICE

- 1. THE CONTRACTOR SHALL ARRANGE WITH THE TELEPHONE COMPANY FOR BRINGING TELEPHONE SERVICE TO THE NEXTEL FACILITY IN THE BUILDING AND PAY FOR ALL CHARGES FOR SAME.
- 2. AT TELEPHONE OUTLET PROVIDE A 4" SQUARE BOX WITH BLANK PLATE TO MATCH RECEPTACLE PLATES.

D. DISTRIBUTION PANELBOARD

E. SAFETY SWITCHES

AND DESCRIBED HEREIN.

- FURNISH AND INSTALL A DISTRIBUTION PANELBOARD FOR LIGHT AND POWER DISTRIBUTION, AS SHOWN ON DRAWINGS
- THE DISTRIBUTION PANEL SHALL BE 208Y/120 VOLT, PHASE, 4 WIRE, 200 AMP, SOLID NEUTRAL AND SHALL CONSIST OF BREAKERS ATTACHED TO THE PANEL BUSES WITH BOLTED LINK CONNECTIONS HOUSED WITHIN A CODE GAUGE, NEMA 1, GENERAL PURPOSE ENCLOSURE AS SHOWN ON THE DRAWINGS. THE NUMBER OF POLES AND TRIP
- PANEL SHALL HAVE A NEATLY TYPEWRITTEN CIRCUIT DIRECTORY IN A METAL FRAME WITH A TRANSPARENT COVER ON THE INSIDE OF THE DOOR.
- SWITCHES SHALL BE OF THE TOTALLY ENCLOSED, LOCKABLE TYPE AND MADE OF THE QUICK-MAKE, QUICK-BREAK MECHANISM WITH FOUR POLES AS SHOWN ON DRAWINGS. FUSIBLE SWITCH SHALL BE EQUIPPED WITH DUAL ELEMENT TIME DELAY TYPE FUSE.
- SWITCH SHALL BE AS MANUFACTURED BY SQUARE "D" HEAVY DUTY, CLASS 3110, NEMA 1 ENCLOSURE, RATED FOR 200 AMPERES OR EQUAL.
- FURNISH AND INSTALL ALL CONDUITS, OUTLETS, BOXES, WIRES, SWITCHES, RECEPTACLES, ETC., FOR THE OTHER INSTALLATIONS. COMPLETE LIGHTING AND RECEPTACLE SYSTEMS AS SHOWN INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT GIVING RIGHT-OF-WAY PRIORITY TO SYSTEMS REQUIRED TO BE INSTALLED AT A SPECIFIED
- FASTENED AT RIGHT ANGLES AND PARALLEL TO BUILDING CIRCUIT WIRING SHALL BE DONE WITH EMT CONDUIT AND SHORT LENGTHS OF ARMORED CABLE. CONDUIT SHALL BE NEATLY RACKED AND SECURELY FASTENED AT RIGHT ANGLES AND PARALLEL TO BUILDING LINES. THE WORK SHALL BE DONE WITH THWN STRANDED WIRE, #12 MINIMUM. BOXES SHALL BE OF #16 GAUGE STAMPED STEEL, K.O. AND OF

THE TYPE AND SIZE REQUIRED BY THE N.E.C. AND OF

CROWDING. SPLICES SHALL BE MADE WITH APPROVED

DIMENSIONS TO HOUSE THE DEVICES AND SPLICES WITHOUT

CONDUIT SHALL BE NEATLY RACKED AND SECURELY

WIRE-NUTS OF MANUFACTURE OF "SCOTCH-LOK" CONNECTORS. G. DEVICES, PLATES AND CABLE TRAYS

F. LIGHTING & RECEPTACLE CIRCUITS

- PROVIDE AT EVERY INDICATED OUTLET THE PROPER DEVICE AND PLATES AS HEREINAFTER SPECIFIED. WHERE MORE THAN ONE DEVICE IS INDICATED IN ONE LOCATION, THEY SHALL BE GANGED TOGETHER IN ONE BOX AND UNDER ONE PLATE, AS REQUIRED. SINGLE POLE SWITCH - BRYANT #4901 RATED 20A
- RECEPTACLES, WHERE INSTALLED OUTSIDE, EXPOSED OR IN PLACES WHERE SUBJECT TO SPRAY OR UNUSUAL CONDITIONS, SHALL BE EQUIPPED WITH WEATHER PROOF YPE COVERS WITH GASKETS AND THREE-PRONG RECEPTACLES, HUBBELL OR BRYANT. PLATES SHALL BE STAMPED SHERADIZED STEEL.
- CABLE TRAY SYSTEMS SHALL BE FABRICATED OF STEEL TROUGH SECTIONS WITH HOT DIP GALVANIZED FINISH, AFTER FABRICATION, FOR OUTDOOR USE, AND PRE GALVANIZED FINISH FOR INDOOR USE. TRAY WIDTH AND DEPTH SHALL BE 12" AND 6" RESPECTIVELY. TRAYS SHALL BE ROUTED AS SHOWN ON DRAWINGS AND SHALL E SUPPORTED EVERY 5 FT. ROOF CABLE TRAYS SHALL BE OVERED WITH PEAKED, FLANGED TYPE NON-VENTILATED OVER, SUITABLE FOR OUTDOOR USE. ROOF CABLE TRAY SHALL CARRY A STENCIL NOTE — ANTENNA CABLES. CABLE TRAY SYSTEM SHALL BE AS MANUFACTURED BY "GLOBE TRAY"

FURNISH AND INSTALL A COMPLETE SET OF FIXTURES AND

LAMPS AS SHOWN ON DRAWINGS.

BALLASTS SHALL BE ENERGY SAVING, HIGH POWER FACTOR
TYPE AND UL LISTED. BALLAST SHALL BE AS MANUFACTURED
BY UNIVERSAL MANUFACTURING CO. OR APPROVED EQUAL. LAMPS SHALL BE OF THE TYPES CALLED FOR ON THE DRAWINGS. INCANDESCENT LAMPS SHALL BE AS MANUFACTURED BY

GENERAL ELECTRIC, SYLVANIA OR WESTINGHOUSE.

THE TOTAL FACILITY GROUND SYSTEM SHALL BE COMPOSED OF

AN EARTH ELECTRODE GROUND SYSTEM, LIGHTNING PROTECTION

GROUND SYSTEM, EQUIPMENT FAULT PROTECTIVE GROUND

- GROUNDING GROUNDING SHALL BE AS PER NEXTEL GROUNDING SPECIFICATIONS, AND PER NATIONAL ELECTRICAL CODE
- SYSTEM AND SIGNAL REFERENCE GROUND SYSTEM AS SHOWN ON DRAWINGS AND PER NEXTEL GROUNDING REQUIREMENTS.
- MAXIMUM RESISTANCE BY TEST TO GROUND SHALL BE 5 OHMS MEASURED BY CONTRACTOR IN THE ENGINEER'S ALL SPLICES FOR GROUND WIRES SHALL BE MADE BY HERMAL PROCESS SUCH AS "CADWELD" PROCESS AS DEVELOPED AND SOLD BY THE ERICO PRODUCTS, INC. CLEVELAND, OHIO. ALL GROUND CONNECTIONS TO GALVANIZED EQUIPMENT, AND TO ALL EQUIPMENT THAT
- A#2 AWG GROUND WIRE SHALL BE CADWELDED TO WATER MAIN PIPE THE GROUND WIRE SHALL BE ROUTED IN 3/4"C INSIDE BUILDING TO THE TELECOMMUNICATIONS ROOM. GROUND WIRE SHALL BE CONNECTED TO MAIN GROUND BUSBAR AS INDICATED ON DRAWINGS.

COULD BE REMOVED DURING NORMAL LIFE OF THE FACILITY

SHALL BE MADE BY MEANS OF A THERMALLY WELDED LUG

- J. ANTENNA CABLES AND ACCESSORIES
- ANTENNA CABLES UNLESS SPECIFIED, CABLES SHALL BE FOAM DIELECTRIC COAXIAL CABLES AS SPECIFIED BY NEXTEL. FOR CABLE RUNS OF UP TO 225' USE 7/8" CABLE FOR CABLE RUNS OF 225' TO 325' USE 1-1/4" CABLE
- CONNECTORS, HANGERS, AND ACCESSORIES CONNECTORS, HANGERS AND ACCESSORIES SHALL BE PLACED AND

WITH CONNECTORS AT EACH END.

PER NEXTEL'S REQUIREMENTS.

- III. EXECUTION
- A. ROUGH-IN VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.

INSTALLED AS RECOMMENDED BY THE CABLE MANUFACTURER AND

- CONTRACTOR SHALL CONSULT WITH ENGINEER PRIOR TO BEGINNING WORK WHEN DISCREPANCIES OR CONFLICTS ARE DISCOVERED IN THE FIELD DURING ROUGH-IN PROCEDURES. 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ERRORS MADE,

B. ELECTRICAL INSTALLATIONS

HEADROOM POSSIBLE.

ANTENNA CABLE INSTALLATION

A. ANTENNA LOCATIONS

C. AT THE TERMINATION BEFORE THE MDF

- SEQUENCE, COORDINATE, AND INTEGRATE THE VARIOUS ELEMENTS OF ELECTRICAL SYSTEMS, MATERIALS, AND
- 2. LAYOUT WORK AND VERIFY ALL LOCATIONS AND FIXTURES WITH ENGINEER BEFORE INSTALLATION BEGINS.
- COMPLY WITH THE FOLLOWING REQUIREMENTS:
- A. ALL EQUIPMENT NOT SPECIFICALLY MENTIONED, BUT NECESSARY FOR THE COMPLETE INSTALLATION SHALL BE FURNISHED AND
- ARRANGE FOR CHASES, SLOTS, & OPENINGS IN OTHER BUILDING COMPONENTS DURING PROGRESS OF CONSTRUCTION, TO ALOW FOR ELECTRICAL INSTALLATION.

B. VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS.

SEQUENCE, COORDINATE AND INTEGRATE INSTALLATIONS OF ELECTRICAL MATERIALS AND EQUIPMENT WITH OTHER BUILDING COMPONENTS FOR EFFICIENT FLOW OF THE WORK BUILDING. WHERE MOUNTING HEIGHTS ARE NOT DETAILED OR DIMENSIONED, INSTALL SYSTEMS, AND EQUIPMENT TO PROVIDE THE MAXIMUM

INSTALL ELECTRICAL FOLIDMENT TO FACILITATE SERVICING.
MAINTENANCE, AND REPAIR OR REPLACEMENT OF EQUIPMENT
COMPONENTS, AS MUCH AS PRACTICAL. CONNECT EQUIPMENT FOR

INSTALL SWITCHES, RECEPTACLES, SPECIAL OUTLETS, ETC. LOCATED PROPERLY WITH RESPECT TO ALL DOORWAYS, OPENINGS, TRIM, ETC

ANTENNA CABLE LENGTHS SHALL BE MEASURED BY THE INSTALLER. THE INSTALLER SHALL NOTIFY NEXTEL PRIOR TO PURCHASE OF CABLE AND INDICATE OVERALL LENGTH & TYPE OF THE CABLE DIABLE TO BE USED.

STAMPED WITH ANTENNA ORIENTATION AND NUMBER AND ATTACHED TO CABLES WITH STAINLESS STEEL TIE WIRES. TAGS SHALL BE PROVIDED

CABLES SHALL BE INSTALLED WITH A MINIMUM NUMBER OF BENDS WHERE POSSIBLE. CABLES SHALL NOT BE LEFT UNTERMINATED AND SHALL BE SEALED IMMEDIATELY AFTER BEING INSTALLED.

- SPECIAL PRECAUTION SHALL BE TAKEN SO THAT THE EQUIPMEN ON THIS APPLICATION AND INSTALLATION SHALL NOT AFFECT THE INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT TO CONFORM WITH 1. TENANT EGRESS TO AND FROM THE BUILDING APPROVED SUBMITTAL DATE, INCLUDING COORDINATION DRAWINGS, TO GREATEST EXTENT POSSIBLE.
- 2. FIRE SAFETY OF THE BUILDING INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT LEVEL AND PLUMB PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND 3. STRUCTURAL SAFETY OF THE BUILDING.
 - 4. NO CREATION OF NOISE OUTSIDE THE HOURS OF 8:00 AM
 - BUILDING SECURITY SHALL BE MAINTENED IN ORDER TO PREVENT UNAUTHORIZED PERSONS FROM ENTERING PREMISES. ELECTRICITY, GAS, WATER, & ANY OTHER UTILITIES WILL NOT BE INTERRUPTED DURING CONSTRACTION. ACCUMULATION OF DUST: THE CONTRACTOR SHALL LEAVE THE WORK SITE ROOM CLEAN EACH DAY. IN EVENT THAT ASBESTOS IS FOUND ON THE JOB SITE, ITS REMOVAL SHALL TAKE PLACE IN ACCORDANCE WITH ALL THE APPLICABLE REGULATIONS OF

HEIGHTS INDICATED ARE ABOVE FINISHED FLOOR TO THE CENTER

-5' - 0"

4. VERIFY ALL DOOR SWINGS BEFORE ROUGHING IN FOR SWITCHES, ETC...

UPON COMPLETION OF THE ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL TEST THE ENTIRE ELECTRICAL SYSTEL FOR

SHORT CIRCUITS AND GROUNDS IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE.

OF THE DEVICES. MOUNTING HEIGHTS FOR OTHER EQUIPMENT ARE AS SHOWN ON THE ELECTRICAL OR ARCHITECTURAL PLANS.

-18" (UNLESS NOTED OTHERWISE)

-18" (UNLESS NOTED OTHERWISE)

- NOT HIGHER THAN 6'-6" TO TOP OF BREAKER OR SWITCH, BOTTOM OF CABINET NOT LESS THAN 24" ABOVE FINISHED FLOOR.

OSHA SECTION 1910.1 INCLUDING STATE AND FEDERAL

RECEPTACLE

PANELS

LIGHTING SWITCHES

H. <u>TENANT SAFETY NOTES</u>

- ALARM JUNCTION BOX SHALL BE LOCATED ABOVE SITE CONTROLLER (CC), PER DWG. E-1.
- CABLES SHALL BE LABELED WITH PERMANENT MARKERS, BRASS TAGS
 - THERE SHALL BE (4) FOUR ALARM CONTACTS WIRED IN PANEL. THE CONTACTS ARE: A) INTRUDER ALARM FROM MAGNETIC DOOR READER RELAY B) SMOKE ALARM FROM CONTACT IN SMOKE DETECTORS.
 - D) HI-LOW TEMPERATURE ALARM FROM THERMOSTAT. EACH ALARM SIGNAL REQUIRES (2) TWO #14 AWG WIRES FROM SOURCE TO ALARM PANEL. ALARM SIGNALS SHALL BE ROUTED IN A DEDICATED 3/4" CONDUIT. (ALL ALARM
- THE MINIMUM BENDING RADIUS FOR ANTENNA CABLES SHALL BE AS SHOWN BELOW: CONTRACTOR SHALL LABEL ALL WIRES AND TERMINATIONS IN ALARM PANEL WITH PROPER TAGGING.

1-1/4"

1-5/8"

1/2" (FOAM JUMPER)

LL OUTLETS, PANELS, AND CONTROLS DESIGNATING THE EQUIPMENT

DETAILS AND ALSO INSTRUCTIONS FROM THE ENGINEER'S AT THE JOB SITE.

BOLTED TO THE EQUIPMENT.

PROJECT

MANAGER:

E FOR CABLE RUNS GREATER THAN 325' USE 1-5/8" CABLE. CABLES SHOULD BE FURNISHED WITHOUT SPLICES AND

> PROFESSIONAL ENGINEER GAETANO P. CIPRIANC

AS NOTED EXTEL COMMUNICATIONS

> NEW FAIRFIELD, CT SSUE DATE 15 APR GENERAL NOTES

DRAWN DESIGNED TITICUS MOUNTAIN ROAD CHECKED

EIA DRAWING NO. APPROVED

 ALARM CONTACTS SHALL BE WIRED TO TERMINAL STRIPS MOUNTED INSIDE PANEL. CONTRACTOR SHALL SUPPLY 100% SPARE TERMINAL STRIPS. ALARM PANEL SHALL BE AS PROVIDED WITHIN OWNER FURNISHED TELECOMMUNICATION EQUIPMENT.

C) LOSS OF POWER ALARM FROM CONTACT IN JOSLYN PANEL

ALL CABLE CONNECTIONS OUTSIDE SHALL BE COVERED WITH WEATHERPROOF SPLICING KIT. THE KIT SHALL BE AS SPECIFIED IN NEXTEL GROUNDING SPECIFICATIONS.

- S CONTRACTOR SHALL FURNISH AND INSTALL NAMEPLATES ON
- F. LOCATION OF OUTLETS THE PLANS AS DRAWN DO NOT NECESSARILY SHOW ALL THE FITTINGS, ETC., NECESSARY TO SUIT BUILDING CONDITIONS.
 LOCATIONS OF OUTLETS, APPLIANCES, ETC., ARE APPROXIMATE & THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATIONS IN ORDER TO MAKE THEM FIT WITH THE ARCHITECTURAL
- BEFORE INSTALLATION OF CONDUIT FOR SWITCHES, RECEPTACLES, CEILING LIGHTS, THE OWNER RESERVES THE RIGHT TO MOVE EACH OUTLET LOCATION TO BETTER ADAPT THEM FOR USAGE, PRIOR TO INSTALLATION, WITHIN A DISTANCE OF 3'-0" AS PRESENTLY INDICATED,

TJA 15 APR 9 SSUED FOR CLIENT REVIEW DATE REV REVISION DESCRIPTION BY

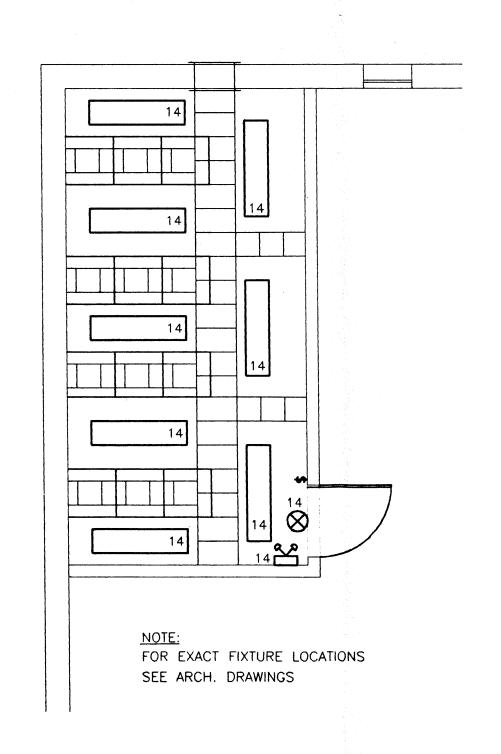
> ARCHITECTURE • ENGINEERING • CONSTRUCTION 115 Evergreen Pl. • E. Orange, NJ 07018 • (201) 672 - 5100 **ARCHITECTURAL**

______ EIA PROJECT NO. EE4444

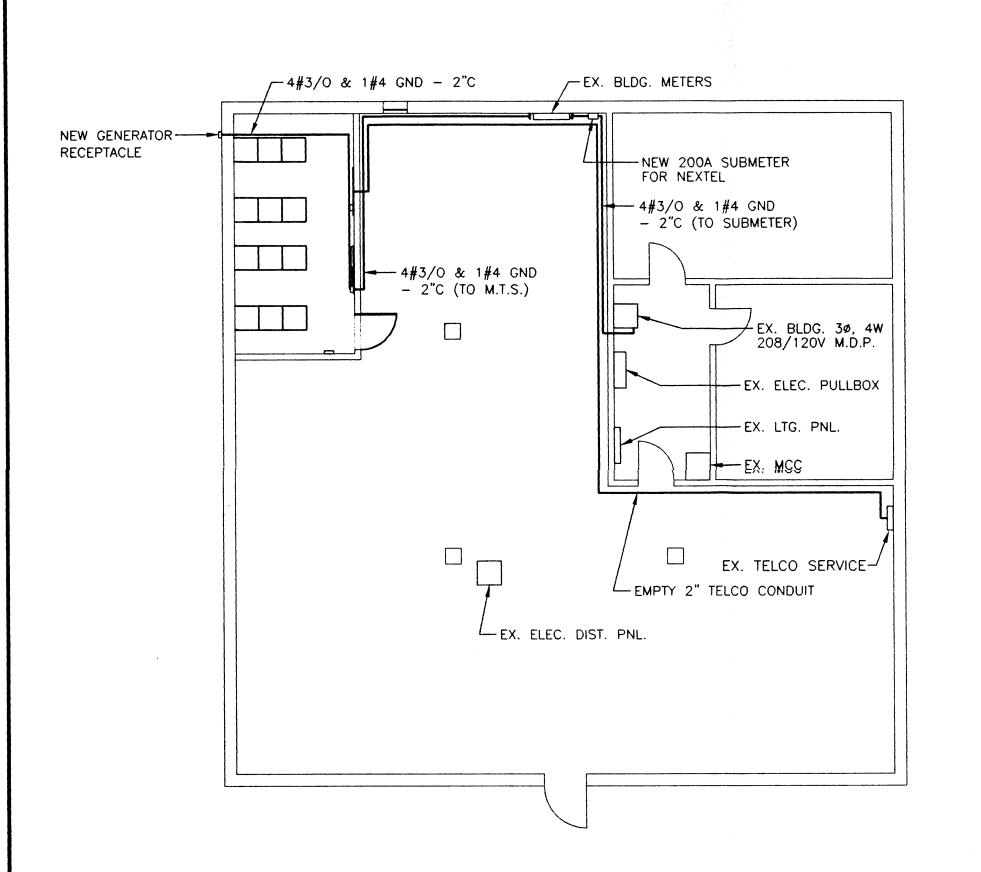
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& SPECIFICATIONS REVISION

CLIENT DWG. NO.

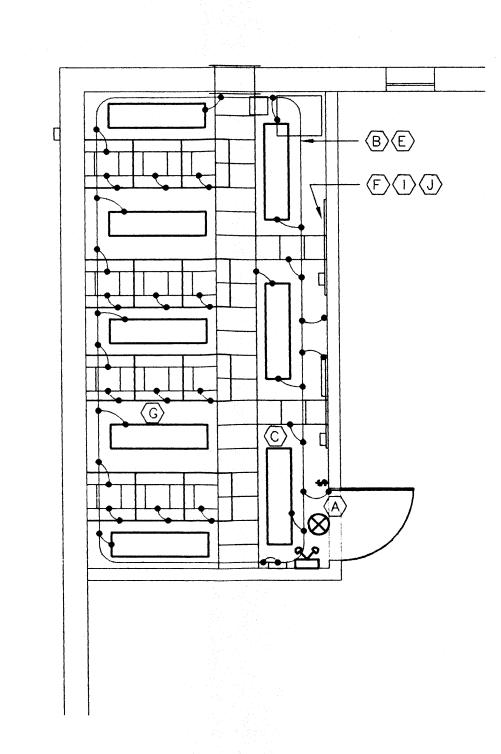




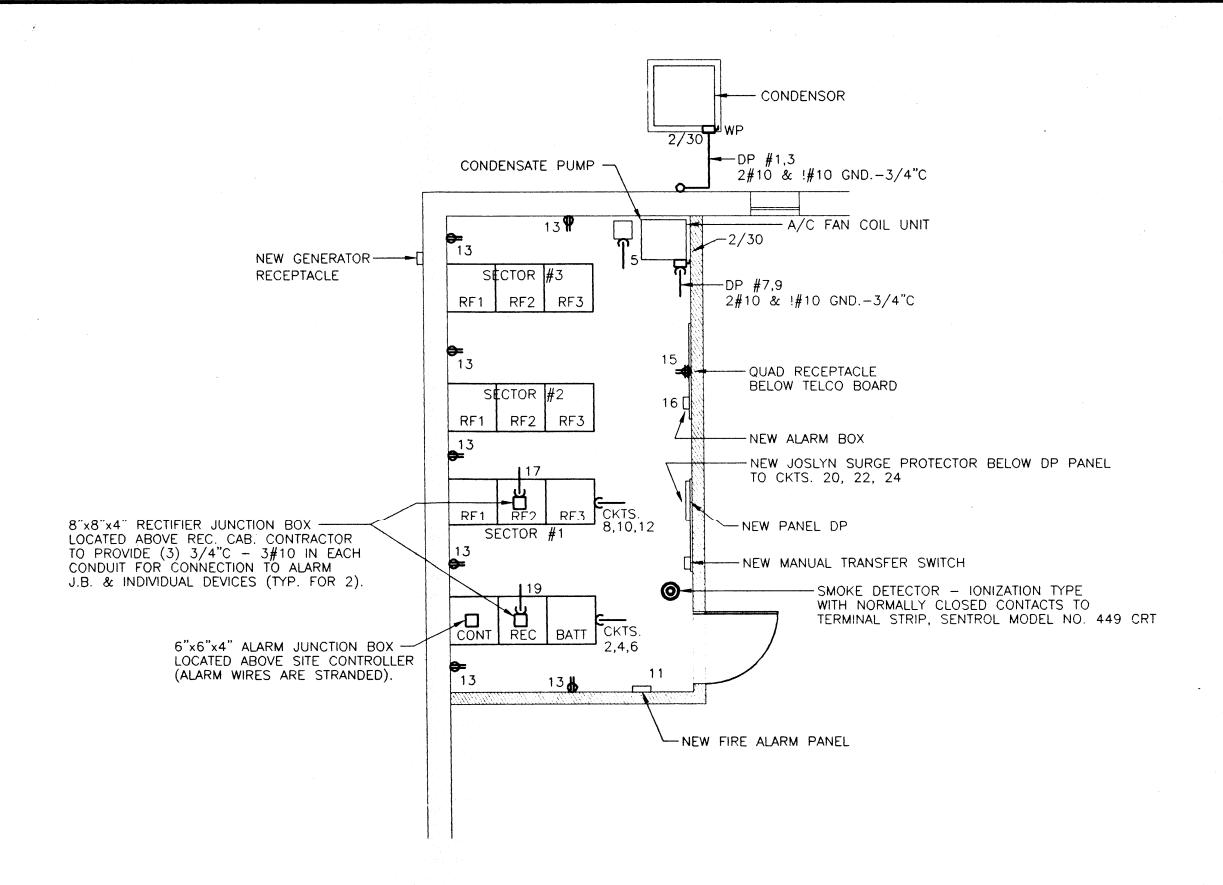


OVERALL BUILDING PLAN

1/4" = 1'-0"







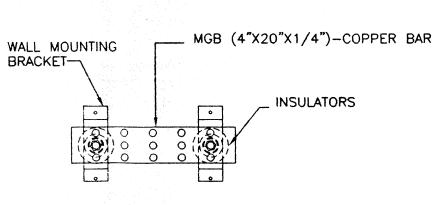
C EQUIPMENT PLAN 1/4" = 1'-0"

NOTES

- 1. SECTORS 2 AND 3 FUTURE NOT IN THIS SCOPE OF WORK.
- 2. PROVIDE SHALL MEAN FURNISH AND INSTALL

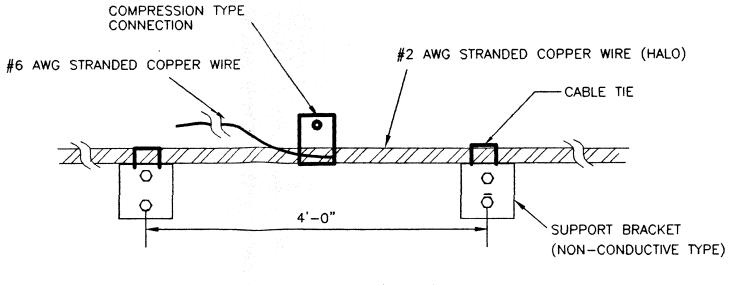
<u>EQUIPMENT</u>

- (A) CONCEALED #6 GRD. TO STEEL BUCKS (EACH SIDE & LINTEL) AND DOOR WITH CLAMPED OR CRIMPED CONNECTION
- B #6 GRD, GREEN INSUL. WIRE WITH CLAMPED OR CRIMPED CONN. TO ROOM PERIMETER GROUND CABLE (TYP.)
- #6 GREEN INSUL. WIRE BOUND
 JUMPERS AT ALL CABLERACK
 CONN. VISIBLY SCRAPE
 EXISTING PAINT TO INSURE
 GROUNDING INTEGRITY (TYP.)
- (D) (3) 6"ø GALV. SLEEVES.
- (E) #2 AWG STRANDED
 COPPER WIRE(PERIPHERAL)
 ATTACHED AT 7'-4"A.F.F.
 (SEE DETAIL)
- F GRD. BAR PLATE INSIDE ROOM.
- G #6 AWG. INSUL. STRANDED COPPER WIRE FROM RADIO EQUIPMENT TO GND. BAR (BY EQUIP. INSTALLER)
- (H) CONTRACTOR TO CADWELD #2 AWG INSUL. GRD. CABLE FROM GRD. BAR PLATE TO EXIST. WATER MAIN PIPE. VERIFY EXACT LOCATION WITH NEXTEL CONST. MGR. & OWNER.
- (I) GRD. BAR PLATE OUTSIDE ROOM.
- J #2 AWG GROUND WIRE ROUTED TO ROOF. ROUTE ADJACENT TO ANTENNA CABLE.



MASTER GROUND BAR PLATE.

ROOF GROUND BAR PLATE



PERIPHERAL GROUNDING WIRE (HALO)

CONNECTION DETAIL

HALO ROOM GROUND CONDUCTOR

EQUIPMENT TO BE CONNECTED BY COMPRESSION TYPE CONNECTION TO HALO GROUNDING WIRE INCLUDE:

- 1. OVERHEAD CABLE RACKING ALL JUMPERED TOGETHER
- 2. DOOR FRAMES
- 3. HVAC FRAMES
- 4. NEW ELECTRICAL PANEL
- 5. ALL OTHER NON-RBA AND METALLIC EQUIPMENT
- 6. ANY OTHER PERMANENT, SIGNIFICANT, METAL OBJECT WITHIN SEVEN FEET OF ANY OTHER GROUND OBJECT
- 7. ELECTRICAL UNIT HEATER

EQUIPMENT GROUND BAR (BY EQUIPMENT INSTALLER)

- 1. ON EXTERIOR OF BUILDING BELOW GALV. SLEEVES
- 2. ON INSIDE BELOW SLEEVES
- 3. ON ROOF JUST BEFORE CABLES LEAVE ROOF

 #2 SOLID CAD WELD FROM ROOF TO OUTSIDE
 OF ROOM (GROUND CONNECTION TO BE KEPT
 OUTSIDE OF ROOM) THEN RUN TO WATER
 MAIN

EQUIPMENT TO BE CONNECTED TO THE EQUIPMENT GROUND BAR:

- 1. RACK GROUND CONNECTIONS ON ALL RADIO RACKS

 * 2. GROUND BARS ON ALL DC POWER DISTRIBUTION PANELS
- * 3. TRANSMISSION RACKS
- * 4. TELEPHONE PROTECTION GROUNDING TERMINAL
 - * BY EQUIPMENT INSTALLER

NORTHEAST UTILITIES CO.

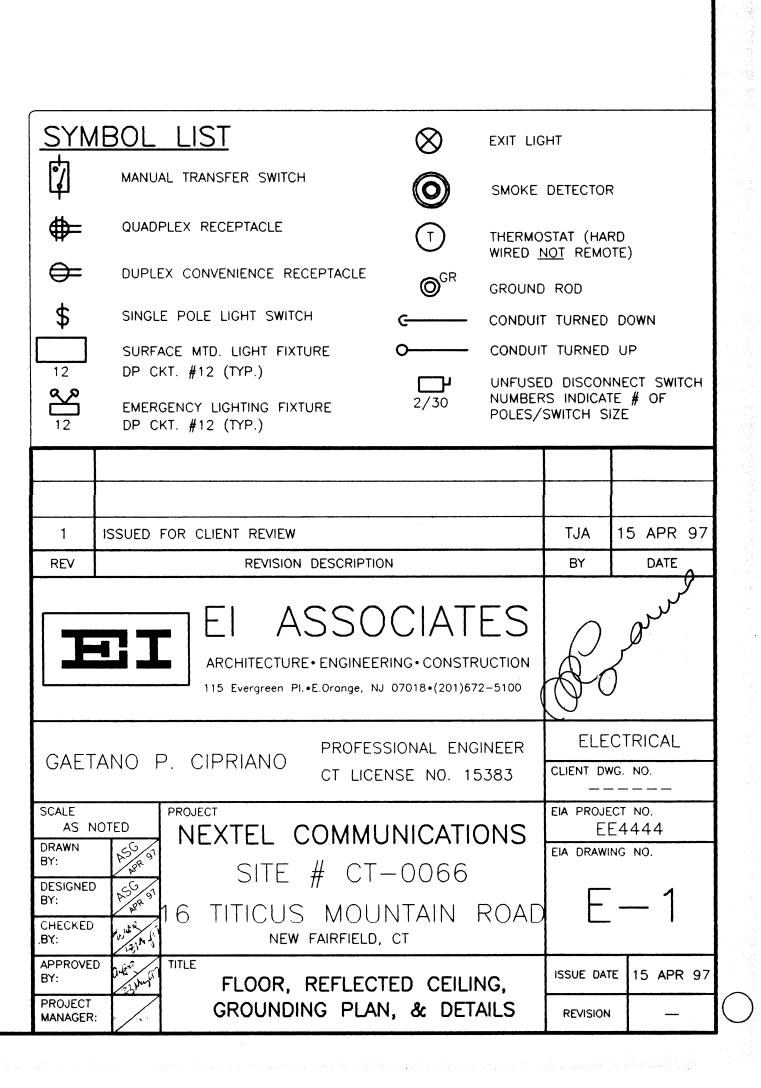
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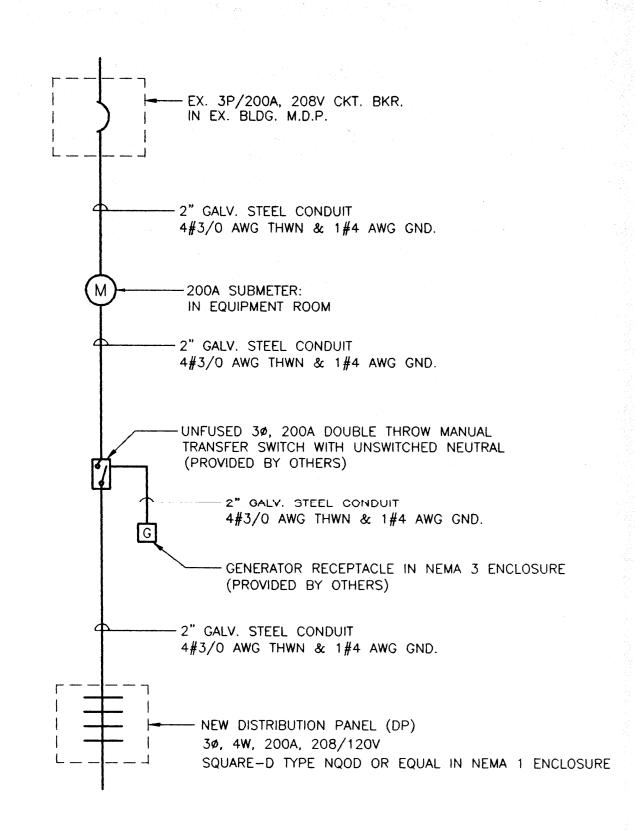
AT & T

THOMAS C. FORD COMMUNICATIONS TECHNICIAN 1-203-879-2558

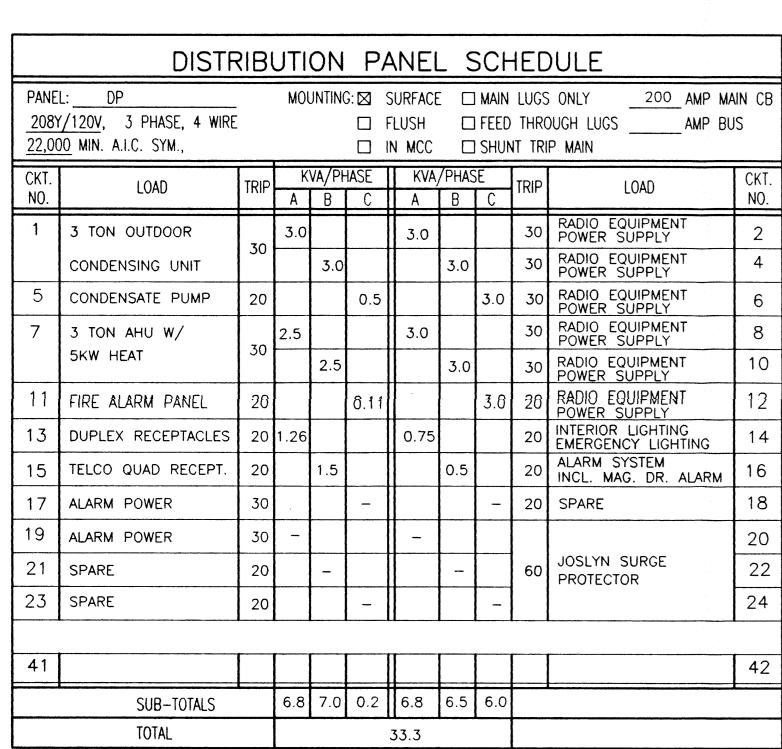
NOTE:

ELECTRICAL WORK IS NOT PART OF THE BUILDING PERMIT APPLICATION.





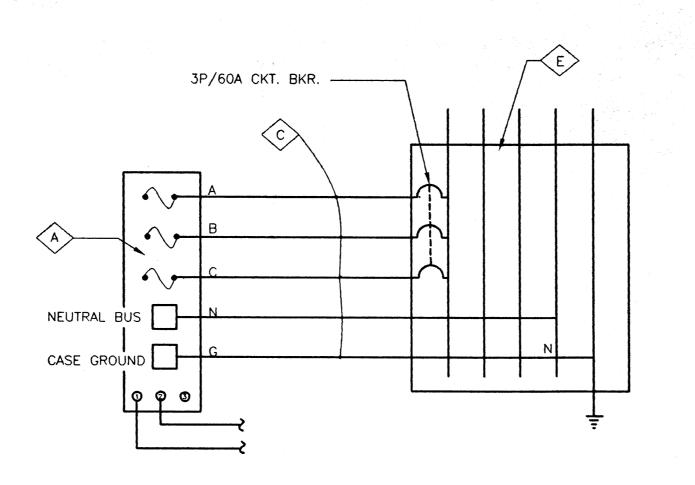




FOR 120/208 VOLT BRANCH CIRCUIT WIRING, THE MINIMUM WIRE SIZE SHALL BE AS FOLLOWS:

20 AMP. CIRCUIT BREAKER ---- # 12 AWG
30 AMP. CIRCUIT BREAKER ---- # 10 AWG
40 AMP. CIRCUIT BREAKER ---- # 8 AWG
60 AMP. CIRCUIT BREAKER ---- # 6 AWG

ALL CONTROL WIRING #14 AWG



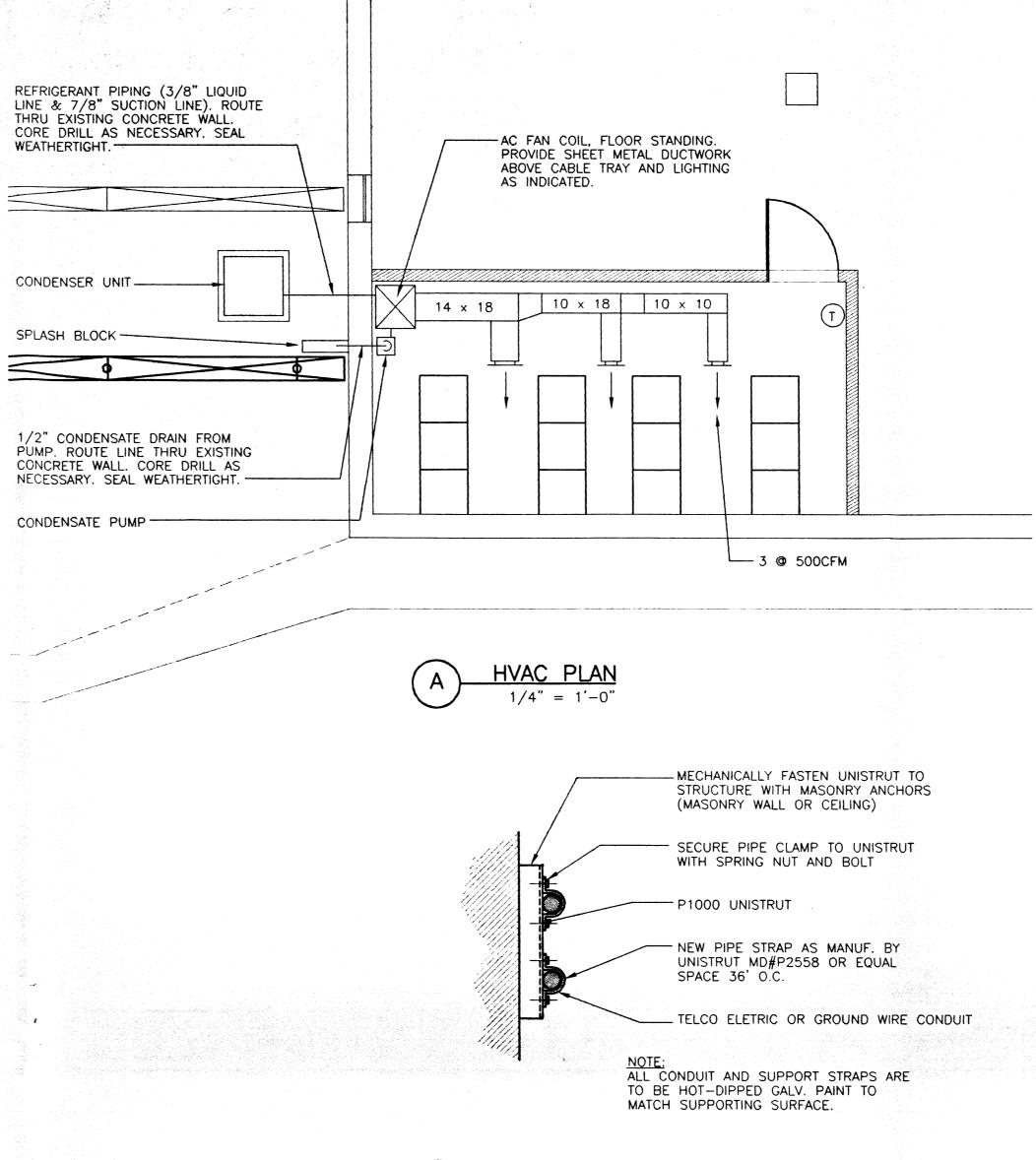
SURGE PROTECTOR RISER DIAGRAM

	SURGE PROTECTOR KEY NOTES
$\langle A \rangle$	AC SURGE PROTECTOR: JOSLYN SURGITRON I MODEL NO. 1455-85-MN 208/120V, 60 HZ, 3ø, 4W
\wedge	

- B GROUND AS PER N.E.C. SEC. 250
- 5 #4 CU, 1"C SHALL BE TERMINATED ON THE NEW 3P/60A BREAKER OF THE NEW 200A CIRCUIT BREAKER PANEL
- 2 #22 SOLID WIRE (RED/BLACK) INSULATION NON-SHIELDED CABLE, 1/2" CONDUIT, ALARM WIRES TO TELCO BOARD
- E NEW CIRCUIT BREAKER PANEL

SURGE ARRESTOR GENERAL NOTES:

- GROUND BUS IN SURGE ARRESTOR IS UTILIZED ONLY AS AN EQUIPMENT CASE GROUND.
- 2. ALL CONDUCTORS SHALL BE FANNED OUT SMOOTHLY, NO RIGHT ANGLE BENDS ARE PERMITTED. POSITION ALL LEADS A, B, C, N, G TOGETHER SO THAT THEY WILL BE IN CLOSE PROXIMITY TO EACH OTHER. LENGTH SHALL BE AS SHORT AS POSSIBLE BUT NOT LONGER THAN 8'.
- 3. WIRING FROM THE SURGE ARRESTOR TO THE NEW CIRCUIT BREAKER PANEL SHALL BE #4 CU, OR AS SPECIFIED BY SURGE ARRESTOR MANUFACTURER.
- 4. SURGE ARRESTOR FURNISHED BY NEXTEL AND INSTALLED BY CONTRACTOR.



B CONDUIT SUPPORT DETAI

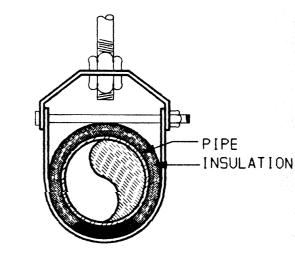
LIGHTING FIXTURE SCHEDULE AMPS/FIXTURE MANUFACTURER WATTS VOLTS LOCATION/REMARKS SYMBOL DESCRIPTION MOUNTING WATTS-TYPE & CATALOG NO. SURFACE TYPE, COMMERCIAL LITHONIA LIGHTING 2 NOS. NEXTEL EQUIP. RM./ #LB-2-40-120-A-ESB 40W T12, LOW-PROFILE, WRAPAROUND, PROVIDE SLOW BLOW FUSE 90 120 GMF/RIF/FR 48"L. FLUOR. ACRYLIC PRISMATIC DIFFUSER W/ 20V, FLUORESCENT SONIC-WELDED. LUMINOUS ENDS TITAN, DIE-FORMED STEEL EXIT AS SHOWN EXIT SIGN, UNIVERSAL LITHONIA LTG. 7.0 120 7W-F7TT WALL MOUNT'G, WHITE ON RED -P-W-R-120-EL LETTERING QUANTUM, POLYCARBONATE LITHONIA LTG. 2 NO. AS SHOWN ON 10.8 120 EMERGENCY LTG. UNITS, WALL **HALOGEN** DRAWINGS 5.4 W, EACH LEAD-CALCIUM BATTERY

GENERAL NOTES:

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH REQUIREMENTS OF NEC AND OTHER APPLICABLE CODES AND AGENCIES HAVING JURISDICTION.
- 2. PROVIDE EQUIPMENT GROUNDING AS PER NATIONAL ELECTRICAL CODE REQUIREMENTS, AND NEXTEL SPECIFICATIONS.

COORDINATE WITH OTHER TRADE CONTRACTORS FOR THE SCOPE OF

- INSTALLATION WORK AND POWER SUPPLY FOR THEIR CONTROL SYSTEMS.
- 4. ALL WIRES SHALL BE TYPE THWN STRANDED COPPER, WITH INSULATION RATED 600V, #12 AWG MINIMUM, IN 3/4" MIN. SIZE GALVANIZED STEEL CONDUIT, UNLESS NOTED OTHERWISE.
- 5. THE CONTRACTOR SHALL SUBMIT, FOR THE ENGINEER'S APPROVAL, DETAILED SHOP DRAWINGS OF ALL EQUIPMENT SPECIFIED, AS WELL AS DETAILED INSTALLATION LAYOUTS.
- CONDUIT SHALL RUN AT RIGHT ANGLES OR PARALLEL TO BUILDING LINES AND SHALL BE NEATLY RACKED AND SECURELY FASTENED. INSULATED BUSHINGS AND DOUBLE LOCKNUTS SHALL BE USED THROUGHOUT. PULL BOXES AS PER N.E.C. REQUIREMENT SHALL BE PROVIDED TO FACILITATE THE INSTALLATION OF CABLES.
- 7. ALL CONDUITS SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN ACCORDANCE WITH THE REQUIREMENTS OF THE N.E.C.. FURNISH AND INSTALL EXPANSION TYPE FITTINGS WHEREVER CONDUITS PASS THROUGH STRUCTURAL EXPANSION JOINTS.
- 8. UPON COMPLETION OF THE ELECTRICAL INSTALLATION, THE ELECTRICAL CONTRACTOR SHALL TEST THE COMPLETE ELECTRICAL SYSTEM FOR SHORT CIRCUITS, GROUNDS, AND PROPER OPERATION IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE.
- LOCATIONS OF ELECTRICAL EQUIPMENT AND DEVICES ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD.
- SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF LIGHTING FIXTURES, AND MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT.
- 11. COORDINATE ALL ELECTRICAL WORK AND POWER SHUTDOWN WITH THE OWNER.



NOTE:
HANGERS AND COMPONENTS
SHALL BE COATED WITH
RUST RESISTANT PRIMER

INSULATED PIPES ON CLEVIS HANGERS

NOTE:

ELECTRICAL WORK IS NOT PART OF THE BUILDING PERMIT APPLICATION.

<u>EQUIPMENT</u> <u>SPECIFICATIONS</u>

1.0 GENERAL

THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION, SERVICE AND APPLIANCES NECESSARY FOR RECEIVING INSTALLING, TESTING AND ADJUSTING OF NEW AIR CONDITIONING SYSTEM FOR NEW EQUIPMENT ROOM.

2.0 AIR CONDITIONING SYSTEM

PROVIDE THE FOLLOWING "DX SPLIT SYSTEM":

AC SYSTEM SHALL BE A FLOOR MOUNTED FAN COIL, TOP DISCHARGE AS MANUFACTURED BY CARRIER, MODEL FB4ANF036000, 36,000 BTUH COOLING W/ UNIT MOUNTED 24V. CONTROLS, 208/230 V/10/60HZ (370 WATTS) ELECTRICAL SERVICE. UNIT SHALL BE FURNISHED COMPLETE WITH ALL STANDARD EQUIPMENT. UNIT MOUNTED CONTROLS, FAN SPEED AND TEMPERATURE CONTROL SWITCHES. UNIT SHALL ALSO COME WITH FACTORY INSTALLED, 5kW ELECTRIC

PROVIDE CARRIER THERMOSTAT, W/AUTO CHANGEOVER, NON-PROGRAMMABLE, 1-STAGE HEAT, 1-STAGE COOL, MODEL #TSTATCCNACO1.

OUTDOOR AIR COOLED CONDENSING UNIT SHALL BE CARRIER, MODEL NO. 38CKB036-3, 23OV. SINGLE PHASE, 60HZ., NOMINAL 3 TON CAPACITY.

FIELD INSTALLED OPTIONS:

LOW AMBIENT CONTROL, MODEL NO. LT-32.

LOW AMBIENT SWITCH (FAN CYCLING) FOR OPERATION

DOWN TO O'F. AMBIENT.

HIGH PRESSURE CONTROL
LOW PRESSURE CONTROL
UNIT SHALL ALSO COME COMPLETE WITH WINTER
START-UP PACKAGE.

2.1 <u>INSTALLATION</u>

INSTALL AC SYSTEM IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL UNIT PLUMB, FIRMLY ANCHORED IN LOCATION INDICATED, AND MAIN-MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.

INSTALL AND CONNECT ELECTRICAL DEVICES FURNISHED BY THE MANUFACTURER BUT NOT SPECIFIED TO BE FACTORY MOUNTED. FURNISH COPY OF MANUFACTURER'S ELECTRIC—CAL CONNECTION DIAGRAM SUBMITTAL TO THE ELECTRICAL CONTRACTOR. START—UP A/C UNIT IN ACCORDANCE WITH MANUFACTURER'S START—UP INSTRUCTIONS.

TEST CONTROLS AND DEMONSTRATE COMPLIANCE WITH THE REQUIREMENTS. UNIT SHALL BE FULLY CHARGED, TESTED AND READY FOR OPERATION.

REFRIGERANT PIPING— INSTALLATION TO PROVIDE FOR EASE OF MAINTENANCE WITH ALL ACCESSORIES, SIGHT GLASS, FILTER DRIER CHARGING VALVE ETC. AS REQUIRED.

3.0 CONDENSATE PUMP UNIT

VERTICAL TYPE AUTOMATIC SELF CONTAINED PUMPING UNIT LITTLE GIANT PUMP CO. (TECUMSEH PRODUCTS CO.) MODEL VCL-45S CAPACITY 75 GPM @ 40' HD.

ALARM POINTS

- # 1. MAGNETIC ALARM DEVICE (INTRUDER)
- 2. SMOKE DETECTORS

₩3. POWER FAILURE

PROJECT

MANAGER:

- #4. HI-LO TEMPERATURE
- # ALARMS AS INCLUDED IN OWNER FURNISHED

- ISSUED FOR CLIENT REVIEW			15 APR 97		
REV	REVISION DESCRIPTION	BY	DATE ()		
E	EI ASSOCIATES ARCHITECTURE • ENGINEERING • CONSTRUCTION 115 Evergreen Pl. • E.Orange, NJ 07018 • (201)672-5100	6	الروم		
GAET	ANO P. CIPRIANO PROFESSIONAL ENGINEER CT. LICENSE NO. 15383	ELECTRICAL CLIENT DWG. NO.			
SCALE AS N DRAWN BY: DESIGNED BY: CHECKED .BY:	SITE # CT-0066 NEXTEL COMMUNICATIONS SITE # CT-0066 NEW FAIRFIELD, CT	EIA DRAWIN	4444		
APPROVED BY:	PWR. PLAN, PNL. & LTG. FIXT.	ISSUE DATE	8 APR 97		

SCHEDULES AND GENERAL NOTES

MECHANICAL LAYOUT AND SPECS.

REVISION