



MCW Consultants Ltd.

Site Instruction

Date: April 20, 2017

Queen's Quay Terminal
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Project Name: AQUAVISTA - Bayside
Client: TRIDEL Corporation
To: TRIDEL Corporation
Attention: Chadi Loza
Fax number: -

Project No.: 8489D
SI No.: E 017
Page No.: 1 of 1+ 1 attached
Office: Toronto
From: Sunanda Perera
Tao Li

Distribution: Vince Mirarchi –TRIDEL
Chadi Loza - TRIDEL
Christina Lee -KIRKOR
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Michael Hunter-MCW
Mark Furtado-MCW
Sarfraz H. Jaffrey-MCW

Provide itemized labour, equipment and material costs for Work listed below. Do not proceed with any of the listed Work prior to issuance of signed Change Order.

Title: Clarification – ATS Interlock Note.

Specification:

Spec	Issued	Items
		N/A

Electrical:

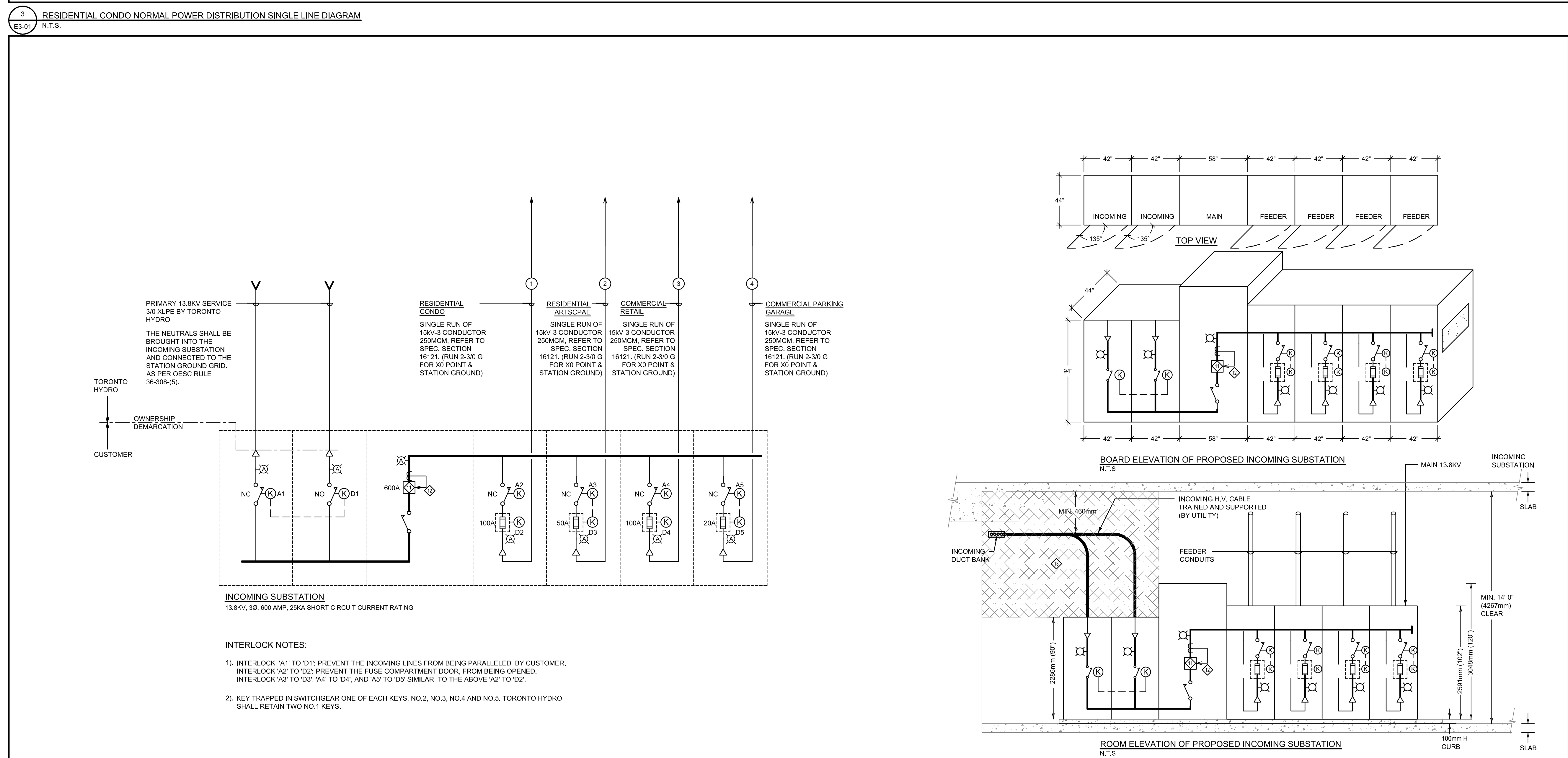
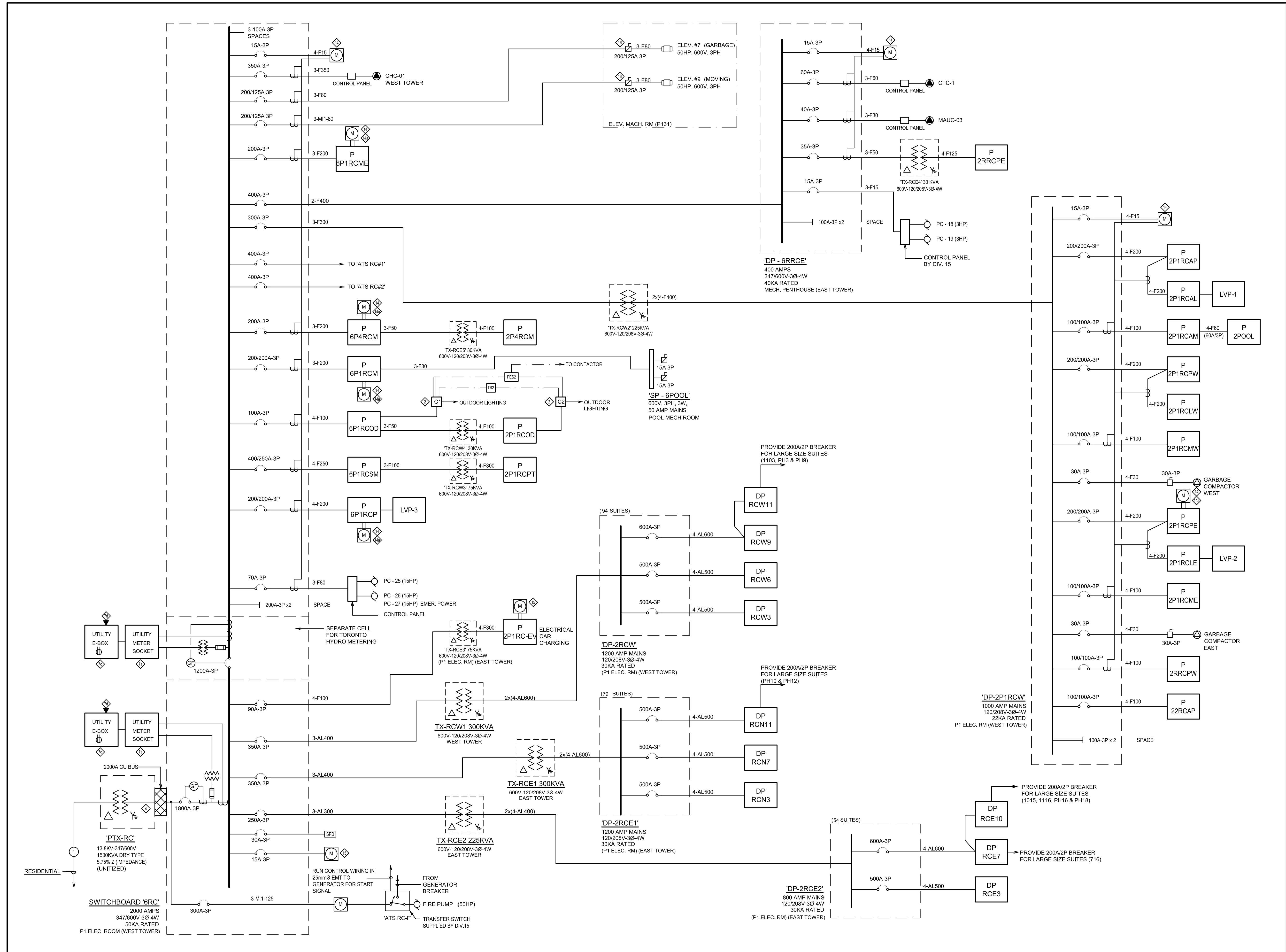
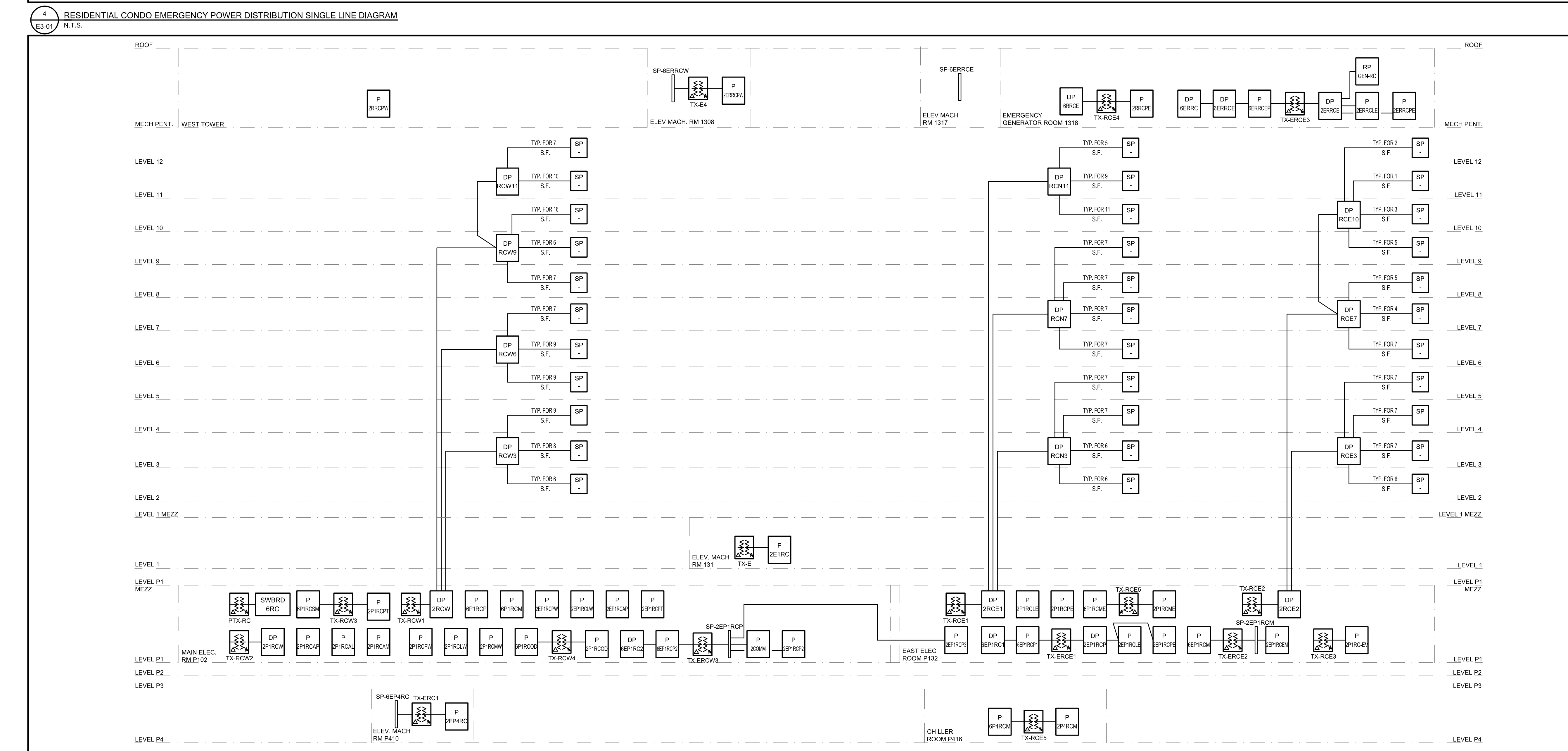
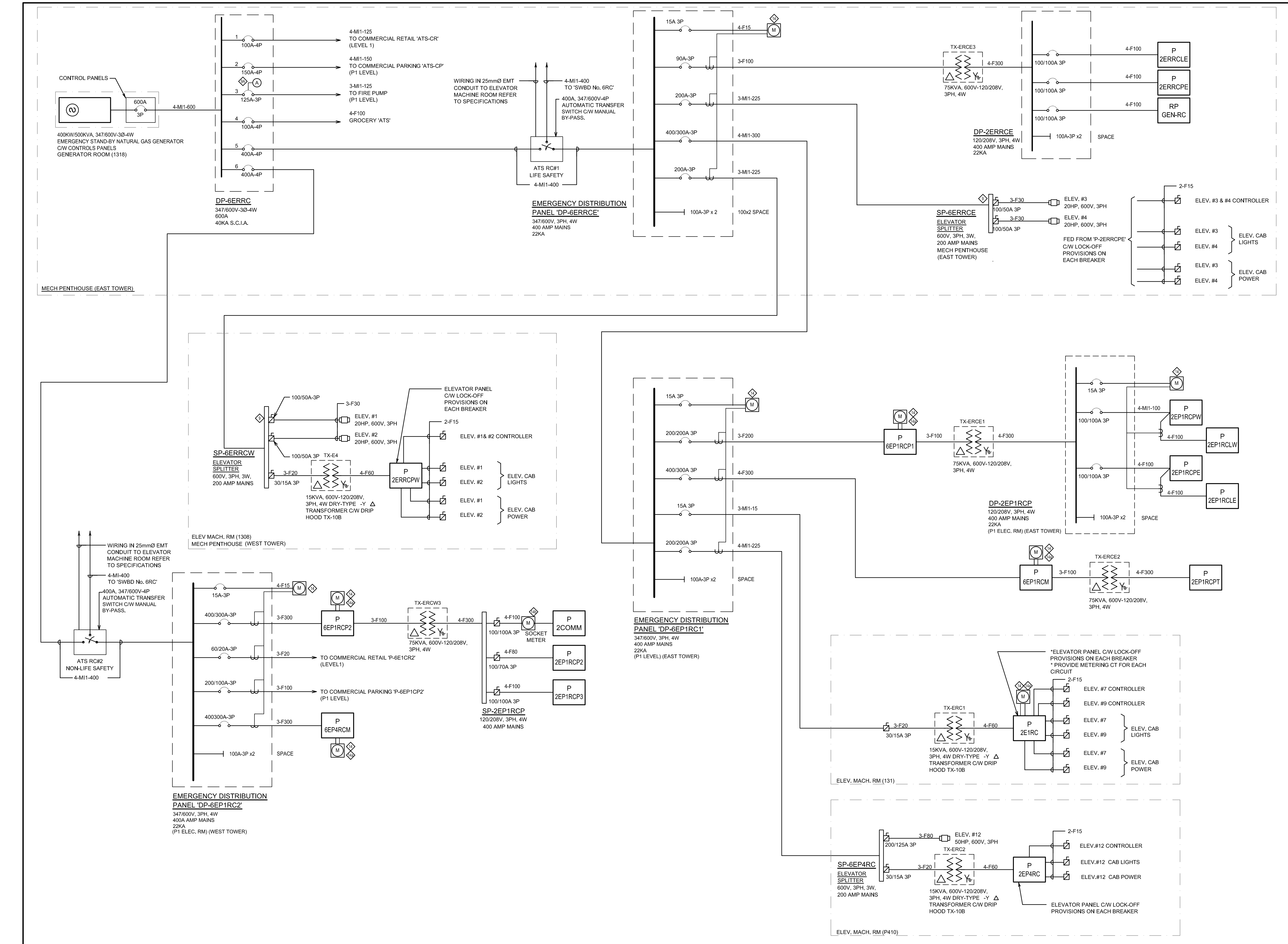
Drawing No.	Drawing Issued	Items
E3-01	Yes	Revise ATS interlock note as shown.

ME Schedule:

Drawing No.	Drawing Issued	Items
		N/A

Reason for Issue – Design Coordination.

End of SI-E017



600V 2 HOUR FIRE RATED M.C.B. SCHEDULE

PREFIX	NO. OF CONDUCTORS	SINGLE CONDUCTOR				TWO CONDUCTORS				THREE CONDUCTORS				FOUR CONDUCTORS			
		MAX. BREAKER	REF.	AMP.	SIZE	MAX. BREAKER	REF.	AMP.	SIZE	MAX. BREAKER	REF.	AMP.	SIZE	MAX. BREAKER	REF.	AMP.	SIZE
15	15	MD-15	15	142	15	MD-15	15	144	15	MD-15	15	144	15	MD-15	15	144	15
20	20	MD-20	20	122	20	MD-20	20	124	20	MD-20	20	124	20	MD-20	20	124	20
25	25	MD-25	25	102	25	MD-25	25	104	25	MD-25	25	104	25	MD-25	25	104	25
30	30	MD-30	30	82	30	MD-30	30	84	30	MD-30	30	84	30	MD-30	30	84	30
35	35	MD-35	35	62	35	MD-35	35	64	35	MD-35	35	64	35	MD-35	35	64	35
40	40	MD-40	40	42	40	MD-40	40	44	40	MD-40	40	44	40	MD-40	40	44	40
45	45	MD-45	45	22	45	MD-45	45	24	45	MD-45	45	24	45	MD-45	45	24	45
50	50	MD-50	50	2	50	MD-50	50	2	50	MD-50	50	2	50	MD-50	50	2	50
55	55	MD-55	55	2	55	MD-55	55	2	55	MD-55	55	2	55	MD-55	55	2	55
60	60	MD-60	60	2	60	MD-60	60	2	60	MD-60	60	2	60	MD-60	60	2	60
65	65	MD-65	65	2	65	MD-65	65	2	65	MD-65	65	2	65	MD-65	65	2	65
70	70	MD-70	70	2	70	MD-70	70	2	70	MD-70	70	2	70	MD-70	70	2	70
75	75	MD-75	75	2	75	MD-75	75	2	75	MD-75	75	2	75	MD-75	75	2	75
80	80	MD-80	80	2	80	MD-80	80	2	80	MD-80	80	2	80	MD-80	80	2	80
85	85	MD-85	85	2	85	MD-85	85	2	85	MD-85	85	2	85	MD-85	85	2	85
90	90	MD-90	90	2	90	MD-90	90	2	90	MD-90	90	2	90	MD-90	90	2	90
95	95	MD-95	95	2	95	MD-95	95	2	95	MD-95	95	2	95	MD-95	95	2	95
100	100	MD-100	100	2	100	MD-100	100	2	100	MD-100	100	2	100	MD-100	100	2	100

NOTE: 1. SCHEDULE IS BASED ON 3 CONDUCTORS SUPPLYING CURRENT TO THE LOAD OTHER CONDUCTOR USED AS NEUTRAL OR FOR CONTROL SIGNALS. 2. DERATING FACTORS SHALL APPLY IF 4TH CONDUCTOR IS USED AS A CURRENT CARRYING CONDUCTOR.

UPDATED JAN 2015.

CABLE & CONDUIT SCHEDULE - ALUMINUM

PREFIX	NO. OF CONDUCTORS	MAX. BREAKER	REF.	WIRE SIZE	AMP.	CORRECTED AMP.	CONDUIT SIZE	BUNDLING
15	15	MD-15	15	142	15	MD-15	15	144
20	20	MD-20	20	122	20	MD-20	20	124
25	25	MD-25	25	102	25	MD-25	25	104
30	30	MD-30	30	82	30	MD-30	30	84
35	35	MD-35	35	62	35	MD-35	35	64
40	40	MD-40	40	42	40	MD-40	40	44
45	45	MD-45	45	22	45	MD-45	45	24
50	50	MD-50	50	2	50	MD-50	50	2
55	55	MD-55	55	2	55	MD-55	55	2
60	60	MD-60	60	2	60	MD-60	60	2
65	65	MD-65	65	2	65	MD-65	65	2
70	70	MD-70	70	2	70	MD-70	70	2
75	75	MD-75	75	2	75	MD-75	75	2
80	80	MD-80	80	2	80	MD-80	80	2
85	85	MD-85	85	2	85	MD-85	85	2
90	90	MD-90	90	2	90	MD-90	90	2
95	95	MD-95	95	2	95	MD-95	95	2
100	100	MD-100	100	2	100	MD-100	100	2

NOTE: 1. ALL CABLE SHALL BE ALUMINUM TYPE WITH 75% AMPACITY TO SUIT BREAKER TERMINATION CHARACTERISTIC. 2. ALL FEEDER SHALL BE PROVIDED WITH BUNDLING CONDUCTOR AS SHOWN & PER DEC. 3. FOR PARALLEL FEEDER CONDUCTOR IS REQUIRED IN EACH PARALLEL RUN. 4. MIN. CABLE SIZE FOR PARALLEL RUN TO BE #14. 5. DO NOT USE THIS SCHEDULE FOR UNDERGROUND CABLE. SIZE UNDERGROUND CABLE PER DEC. OR SEE DEC. 6. FEEDER TYPE FOR PARALLEL RUN SHALL BE USED IN RESIDENTIAL BUILDING. 7. FEEDER TYPE FOR PARALLEL RUN SHALL BE USED IN RESIDENTIAL BUILDING. 8. USE THIS COLUMN FOR CABLE WITH CURRENT CARRYING NEUTRAL. APPLY 0.8 CORRECTION FACTOR FROM TABLE 17 OF DEC. 9. BOTH 75% AND 80% CORRECTION FACTOR IF APPLY CABLE AMPACITY MUST BE GREATER THAN THE BREAKER SIZE. 10. USE CABLE AS REQUIRED. 11. MD DENOTES MULTI CONDUCTOR.

UPDATED JAN 2015.

CABLE & CONDUIT SCHEDULE - COPPER

PREFIX	NO. OF CONDUCTORS	MAX. BREAKER	REF.	WIRE SIZE	AMP.	CORRECTED AMP.	CONDUIT SIZE	BUNDLING
15	15	MD-15	15	142	15	MD-15	15	144
20	20	MD-20	20	122	20	MD-20	20	124
25	25	MD-25	25	102	25	MD-25	25	104
30	30	MD-30	30	82	30	MD-30	30	84
35	35	MD-35	35	62	35	MD-35	35	64
40	40	MD-40	40	42	40	MD-40	40	44
45	45	MD-45	45	22	45	MD-45	45	24
50	50	MD-50	50	2	50	MD-50	50	2
55	55	MD-55	55	2	55	MD-55	55	2
60	60	MD-60	60	2	60	MD-60	60	2
65	65	MD-65	65	2	65	MD-65	65	2
70	70	MD-70	70	2	70	MD-70	70	2
75	75	MD-75	75	2	75	MD-75	75	2
80	80	MD-80	80	2	80	MD-80	80	2
85	85	MD-85	85	2	85	MD-85	85	2
90	90	MD-90	90	2	90	MD-90	90	2
95	95	MD-95	95	2	95	MD-95	95	2
100	100	MD-100	100	2	100	MD-100	100	2

NOTE: 1. ALL CABLE SHALL BE COPPER TYPE WITH 75% AMPACITY TO SUIT BREAKER TERMINATION CHARACTERISTIC. 2. ALL FEEDER SHALL BE PROVIDED WITH BUNDLING CONDUCTOR AS SHOWN & PER DEC. 3. FOR PARALLEL FEEDER CONDUCTOR IS REQUIRED IN EACH PARALLEL RUN. 4. MIN. CABLE SIZE FOR PARALLEL RUN TO BE #14. 5. DO NOT USE THIS SCHEDULE FOR UNDERGROUND CABLE. SIZE UNDERGROUND CABLE PER DEC. OR SEE DEC. 6. FEEDER TYPE FOR PARALLEL RUN SHALL BE USED IN RESIDENTIAL BUILDING. 7. FEEDER TYPE FOR PARALLEL RUN SHALL BE USED IN RESIDENTIAL BUILDING. 8. USE THIS COLUMN FOR CABLE WITH CURRENT CARRYING NEUTRAL. APPLY 0.8 CORRECTION FACTOR FROM TABLE 17 OF DEC. 9. BOTH 75% AND 80% CORRECTION FACTOR IF APPLY CABLE AMPACITY MUST BE GREATER THAN THE BREAKER SIZE. 10. USE CABLE AS REQUIRED. 11. MD DENOTES MULTI CONDUCTOR.

UPDATED JAN 2015.

FEEDER SCHEDULES AND NOTES

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 9