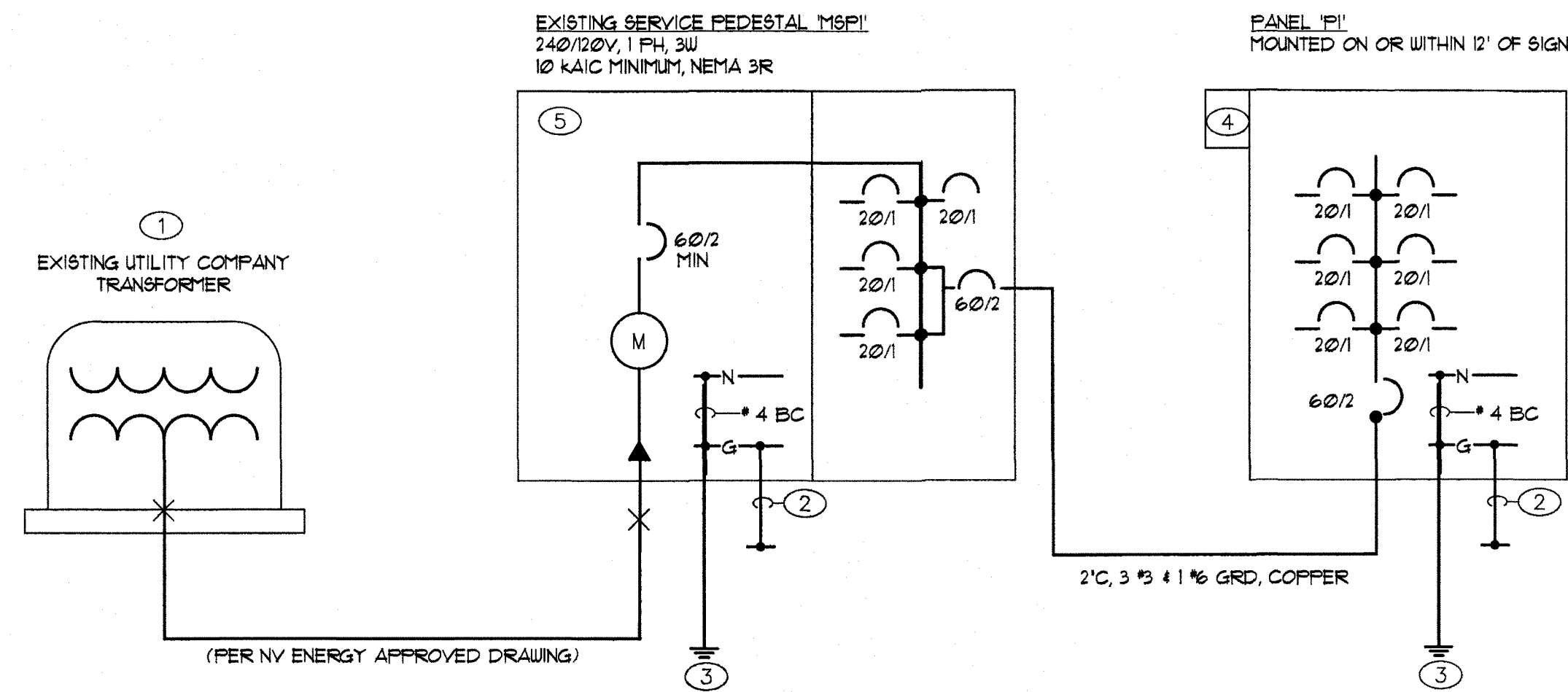


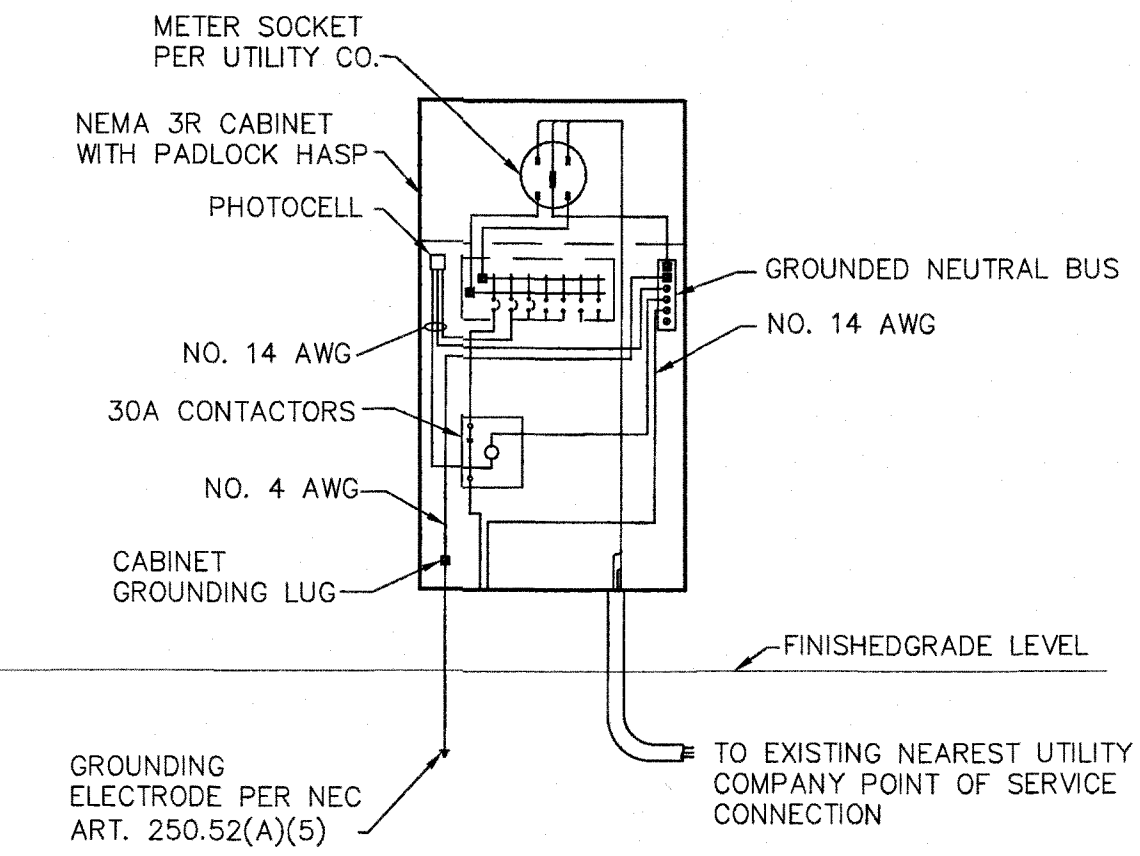
PANEL 'P1' APACHE MOTEL				SERVICE ENTRANCE		SLIP-ON CIRCUIT BREAKERS			
VOLTS:		240/120		METER		X BOLT-ON CIRCUIT BREAKERS			
PANEL AMP RATING:		100		NEMA 1		X ALUMINUM BUS			
MAIN BREAKER AMP RATING:		60		X NEMA 3R		X COPPER BUS			
MINIMUM KAIC:		10		X SURFACE MOUNT					
PHASE:		1		X FLUSH MOUNT					
WIRE:		3		X HINGE DOOR					
NEUTRAL:		FULL SIZE		X DOOR IN DOOR		PANEL LOCATION			
GROUND:		CU-SOLID		X LATCH/LOCK DOOR		SEE FLOOR PLAN			
CKT NO.	CIRCUIT DESCRIPTION	BKR SIZE	LOAD TYPE	LOADS (VA)		LOAD TYPE	BKR SIZE	CIRCUIT DESCRIPTION	CKT NO.
1	SIGN	20/1	L	1500	1500	20/1	SPARE		2
3	SIGN	20/1	L	1500	1500	20/1	SPARE		4
5	SPARE	20/1				20/1	SPARE		6
7	SPARE	20/1				20/1	SPARE		8
9	SPACE						SPACE		10
11	SPACE						SPACE		12
13	SPACE						SPACE		14
15	SPACE						SPACE		16
17	SPACE						SPACE		18
19	SPACE						SPACE		20
21	SPACE						SPACE		22
23	SPACE						SPACE		24
25	SPACE						SPACE		26
27	SPACE						SPACE		28
29	SPACE						SPACE		30
TOTAL LOAD PER PHASE				1500	1500	100%	BALANCE		TOTAL PANEL DEMAND AMPS = 16
TOTAL PANEL LOAD (W/O DEMAND)				3000					
TOTAL PANEL LOAD (W/ DEMAND)				3750					
ABBREVIATIONS: F=FIXED EQUIPMENT, L=LIGHTING LOAD, M=MOTOR LOAD, ML=LARGEST MOTOR LOAD, R=RECEPTACLE LOAD									
SPECIAL PROVISIONS: CONTRACTOR TO VERIFY EXACT QUANTITY OF CIRCUITS WITH SIGN MANUFACTURE AND LABEL PANEL ACCORDINGLY									



SINGLE LINE DIAGRAM - 'MSP1'
NOT TO SCALE

SINGLE LINE DIAGRAM NOTES:

- EXISTING UTILITY COMPANY TRANSFORMER.
- 3/4" #4 BARE COPPER. SYSTEM SHALL BE GROUNDED TO OTHER METAL PIPING IN ACCORDANCE WITH NEC 250.104(B).
- PROVIDE CONCRETE ENCASED GROUNDING ELECTRODE CONSISTING OF MIN 20' OF #4 BARE COPPER OR 1/2" REBAR INSTALLED PER NEC 250.52(A)(3).
- PHOTOCELL TO TURN ON ALL SIGN CIRCUITS. PROVIDE CONTACTORS AS REQUIRED FOR CONTROL OF ALL SIGN CIRCUITS.
- 0 KVA OF USAGE PER NV ENERGY METER READINGS. USE SPARE CIRCUITS TO CONNECT TO PANEL P1.
- 1 KVA OF USAGE PER NV ENERGY METER READINGS. USE SPARE CIRCUITS TO CONNECT TO PANEL P2.

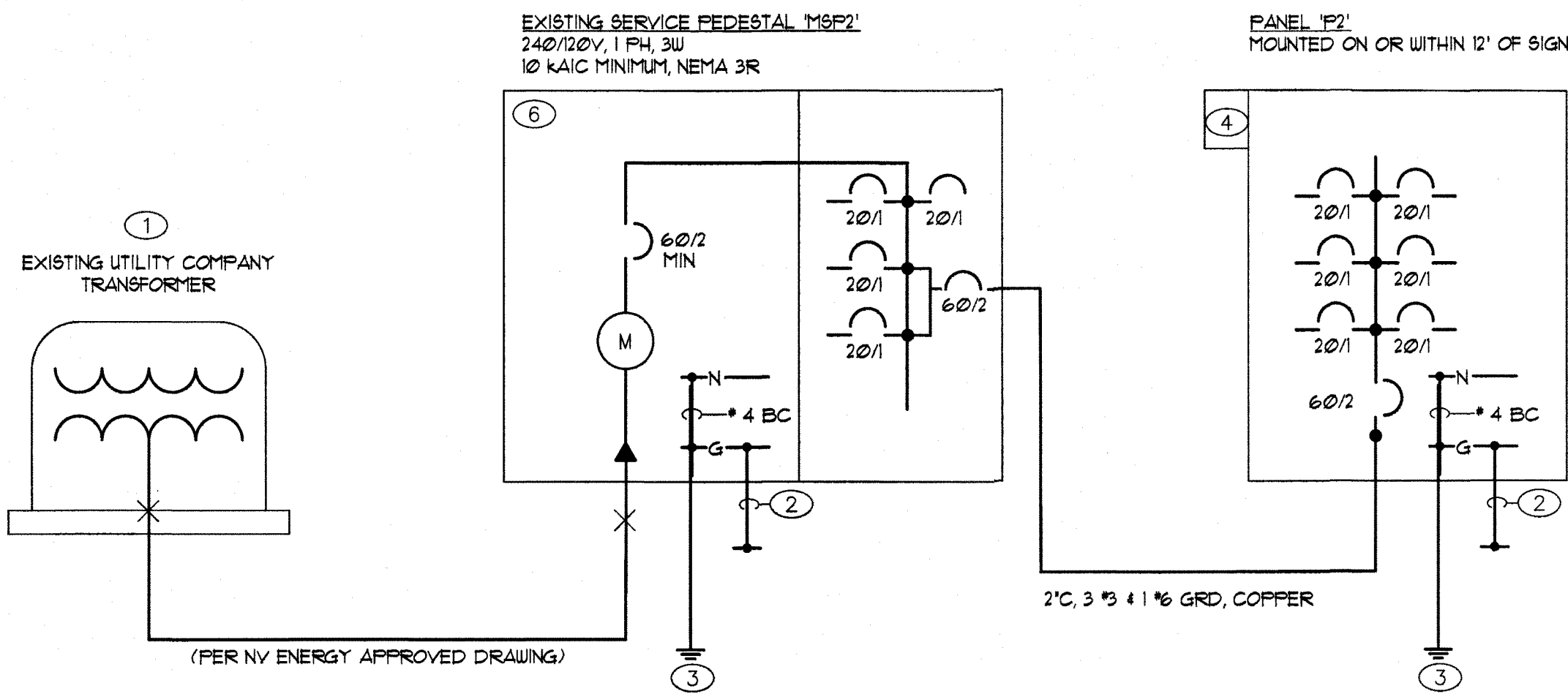


- NOTES:
- PHOTOCELL TO TURN ON ALL SIGN CIRCUITS. PROVIDE CONTACTORS AS REQUIRED FOR CONTROL OF ALL SIGN CIRCUITS.
 - ALL CONDUCTORS AND BUSSING TO BE COPPER, EXCEPT CONDUCTORS PROVIDED BY UTILITY COMPANY.
 - INSTALL PER CLARK COUNTY STANDARD DRAWINGS 726 & 730.
 - TRANSFORMER TO SERVICE PEDESTAL DISTANCES GREATER THAN 195' FOR SPECIFIED COPPER CONDUCTORS, OR 190' FOR SPECIFIED ALUMINUM CONDUCTORS, MUST BE APPROVED BY ENGINEER.

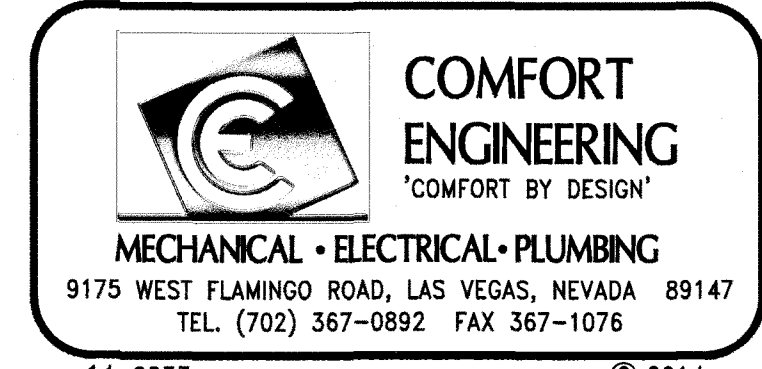
TYPICAL UNISTRUT MOUNTED SERVICE PEDESTAL DETAIL

1
E2

PANEL 'P2' GOLDEN INN MOTEL				SERVICE ENTRANCE		METER		SLIP-ON CIRCUIT BREAKERS	
VOLTS:		240/120						BOLT-ON CIRCUIT BREAKERS	
PANEL AMP RATING:		100						ALUMINUM BUS	
MAIN BREAKER AMP RATING:		60		X	NEMA 1			COPPER BUS	
MINIMUM KAIC:		10		X	NEMA 3R				
PHASE:		1			SURFACE MOUNT				
WIRE:		3		X	FLUSH MOUNT				
NEUTRAL:		FULL SIZE			HINGE DOOR				
GROUND:		CU-SOLID		X	DOOR IN DOOR	PANEL LOCATION			
					LATCH/LOCK DOOR	SEE FLOOR PLAN			
CKT NO.	CIRCUIT DESCRIPTION	BKR SIZE	LOAD TYPE	LOADS (VA)		LOAD TYPE	BKR SIZE	CIRCUIT DESCRIPTION	CKT NO.
1	SIGN	20/1	L	1500	1500	20/1	SPARE		2
3	SIGN	20/1	L	1500	1500	20/1	SPARE		4
5	SPARE	20/1	L	1500	1500	20/1	SPARE		6
7	SPARE	20/1	L	1500	1500	20/1	SPARE		8
9	SPARE			1500	1500		SPARE		10
11	SPARE			1500	1500		SPARE		12
13	SPARE			1500	1500		SPARE		14
15	SPARE			1500	1500		SPARE		16
17	SPARE			1500	1500		SPARE		18
19	SPARE			1500	1500		SPARE		20
21	SPARE			1500	1500		SPARE		22
23	SPARE			1500	1500		SPARE		24
25	SPARE			1500	1500		SPARE		26
27	SPARE			1500	1500		SPARE		28
29	SPARE			1500	1500		SPARE		30
TOTAL LOAD PER PHASE				1500	1500	100%	BALANCE	TOTAL PANEL DEMAND AMPS = 16	
TOTAL PANEL LOAD (W/O DEMAND)				3000					
TOTAL PANEL LOAD (W/ DEMAND)				3750					
ABBREVIATIONS:									
F=FIXED EQUIPMENT, L=LIGHTING LOAD, M=MOTOR LOAD, ML=LARGEST MOTOR LOAD, R=RECEPTACLE LOAD									
SPECIAL PROVISIONS:									
CONTRACTOR TO VERIFY EXACT QUANTITY OF CIRCUITS WITH SIGN MANUFACTURE AND LABEL PANEL ACCORDINGLY									



SINGLE LINE DIAGRAM - 'MSP2'
NOT TO SCALE



PREPARED BY DESIGNED BY: MHA DRAWN BY: WIP CHECKED BY: DM	CITY OF LAS VEGAS LAS VEGAS BOULEVARD NEON SIGNS, PHASE 3	BID# 18-42371 DATE: JUNE 2015 SUBMITTAL STAGE: FINAL	DEPARTMENT OF PUBLIC WORKS CAPITAL PROJECT MANAGEMENT	REVISIONS PER NVE COORDINATION 1 MARCH 2018
				NO. DATE REVISIONS
SINGLE LINE DIAGRAMS AND PANEL SCHEDULES				
SHEET E2 7 of 7 DRAWING NO. 107v4819-3				



APPROVED FOR CONSTRUCTION

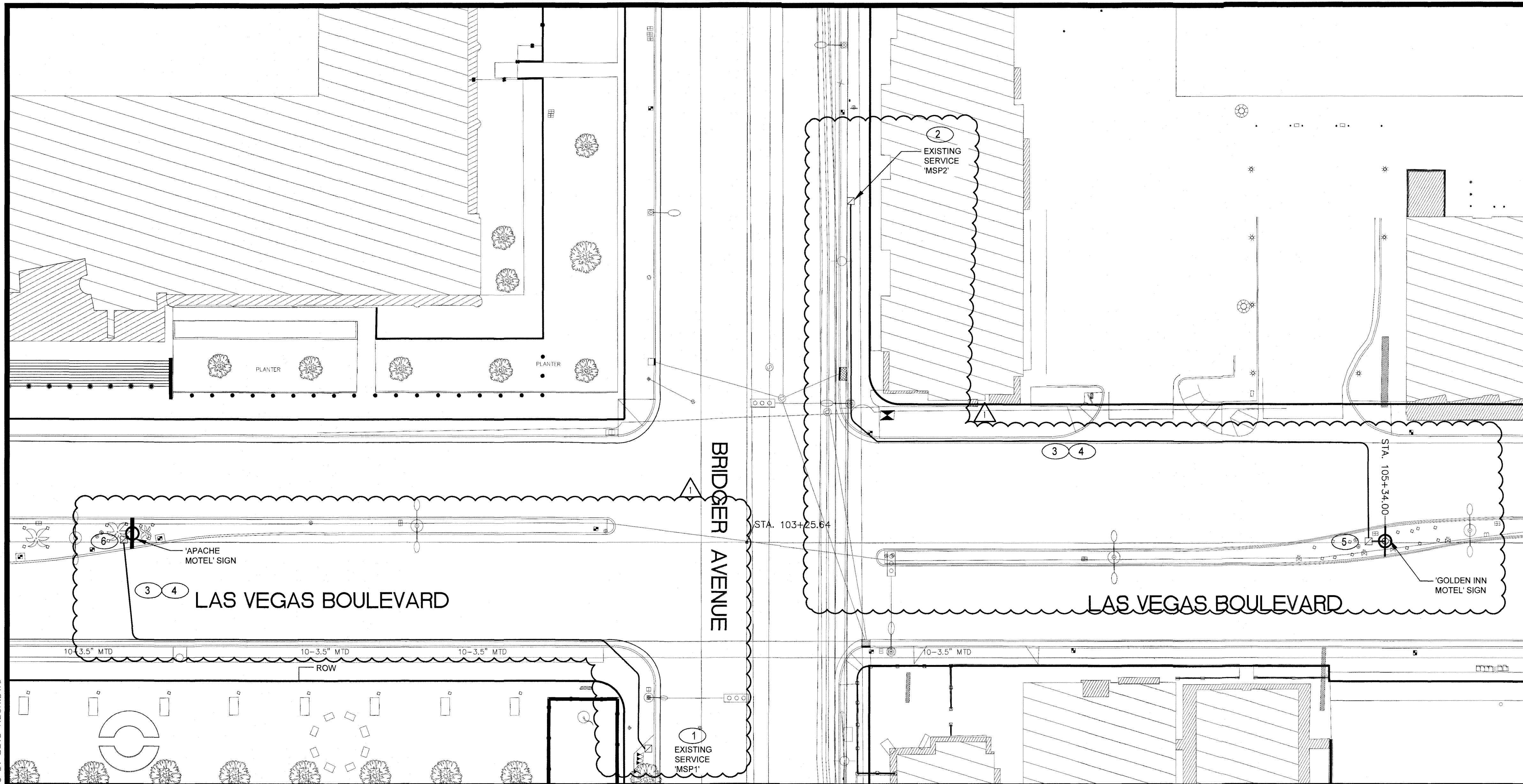
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE: 3/14/18 PROJECT# 123668

1st App 8/2/15 FEDERAL PROJECT NO. SB-0003(184)

TITLE	LAS VEGAS BOULEVARD NEON SIGNS, PHASE 3		PREPARED FOR		CITY OF LAS VEGAS	PREPARED BY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
-------	--	--	--------------	--	-------------------	-------------	--	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

3/8/18 \\CEILLOCAL\DFS\CAD\AC\TDC14\CLV\14-0233 LV BLVD NEON SIGN PHASE 3\ELEC\14-0233 LV BLVD NEON.DWG

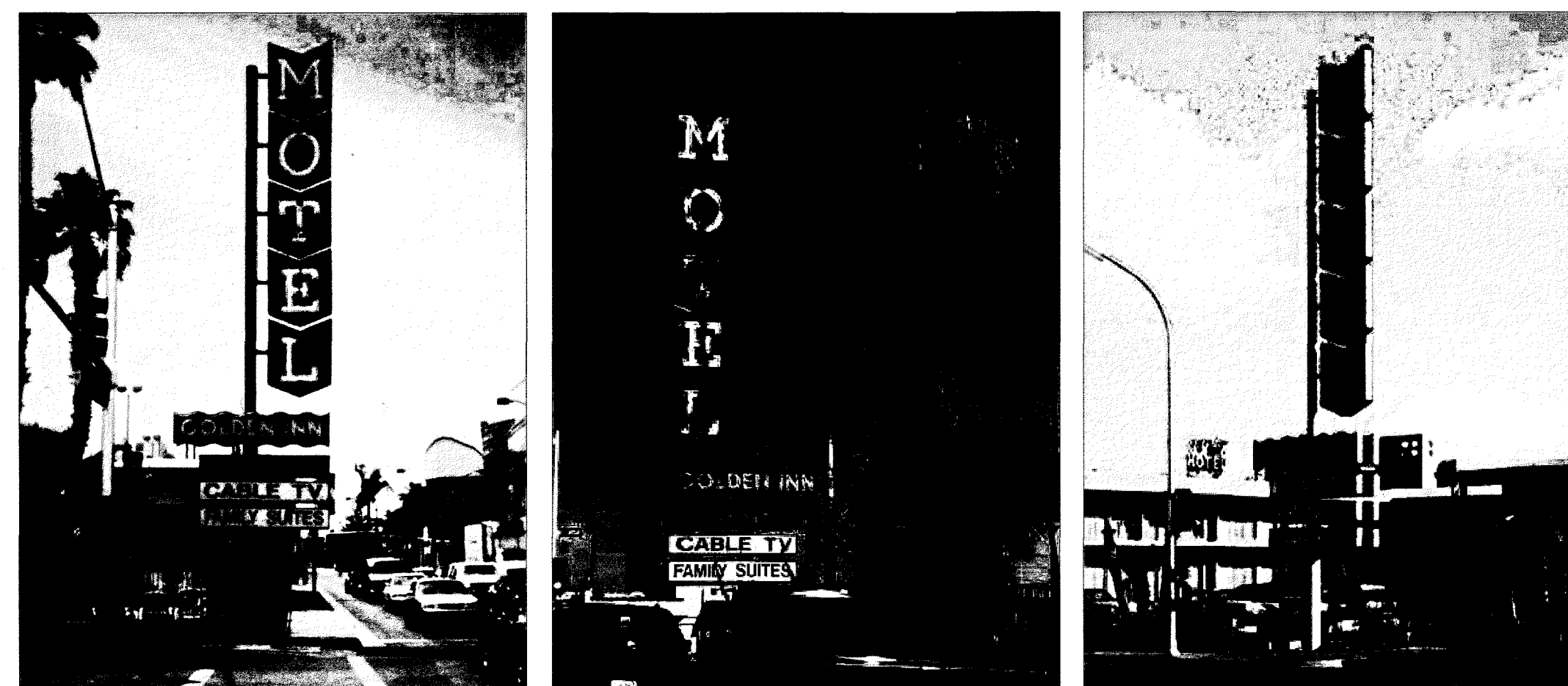


ELECTRICAL SITE PLAN

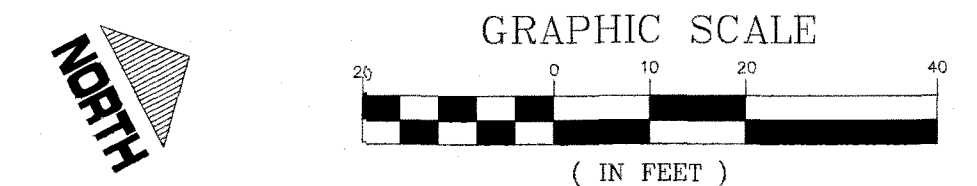
SCALE: 1" = 20'-0"



HISTORICAL PHOTOS OF "APACHE MOTEL" SIGN



HISTORICAL PHOTOS OF "GOLDEN INN MOTEL" SIGN



CALL BEFORE CONSTRUCTION

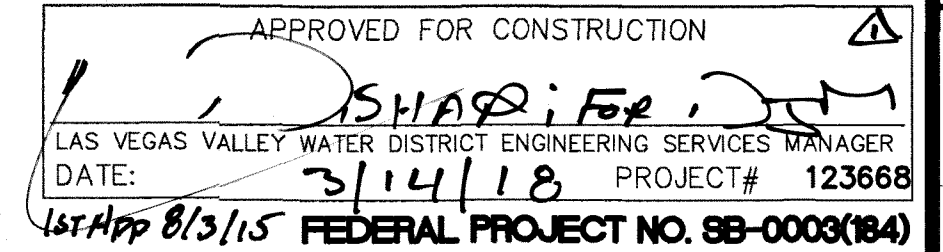
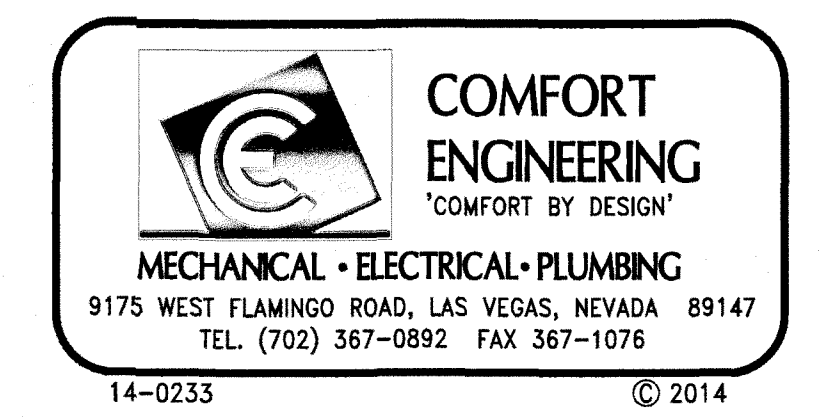
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2829

KEYED PLAN NOTES

- EXISTING SERVICE 'MSP1' PER NV ENERGY DRAWINGS LOCATED AT 505 E BRIDGER, 60 AMP, 120/240V, SINGLE PHASE, 3 WIRE MINIMUM.
- EXISTING SERVICE 'MSP2' PER NV ENERGY DRAWINGS LOCATED AT 420 E BRIDGER AVE. 60 AMP, 120/240V, SINGLE PHASE, 3 WIRE MINIMUM.
- SEE SINGLE LINE DIAGRAM ON PAGE E2 FPR CONDUIT AND FEEDER SIZE. EXACT QUANTITY OF CONDUITS MUST BE VERIFIED WITH SIGNAGE REQUIREMENT PRIOR TO BIDDING AND INSTALLATION.
- MAINTAIN A MINIMUM 3' PARALLEL SEPARATION WITH WATER FACILITIES. MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING WITH WATER FACILITIES.
- PANEL 'P1' LOCATED ON OR WITHIN 12' OF SIGN.
- PANEL 'P2' LOCATED ON OR WITHIN 12' OF SIGN.

GENERAL NOTES

- ALL WIRING SHALL BE IN APPROVED RACEWAY.
- WIRE SIZE SHALL BE MINIMUM #12 AWG, THWN SOLID COPPER UNLESS OTHERWISE NOTED. PROVIDE GROUND WIRE WHERE REQUIRED BY CODE. INCREASE WIRE SIZE TO COMPENSATE FOR VOLTAGE DROP WHERE TOTAL LENGTH OF ANY BRANCH EXCEEDS 100 FEET.
- WIRE SIZE SHALL NOT BE LESS THAN CORRESPONDING CIRCUIT BREAKER RATING AS REQUIRED BY CODE.
- MAXIMUM NUMBER OF UNGROUNDED WIRES IN ANY CONDUIT SHALL BE THREE. ADDITIONAL WIRES ARE ACCEPTABLE IF WIRE SIZE IS INCREASED TO ALLOW FOR DERATING PER CODE. PROVIDE ADDITIONAL WIRES FOR SWITCHING AS REQUIRED.
- ALL CONDUIT SHALL BE INSTALLED WITHIN ROW ONLY.
- UTILITY COMPANY CONDUITS & ROUTING SHOWN FOR BIDDING PURPOSES ONLY. ACTUAL LOCATION SIZE & ROUTING SHALL BE DETERMINED BY THE UTILITY COMPANY AND APPROVED BY OWNER. CONTACT UTILITY COMPANY FOR COORDINATION & INSTALLATION REQUIREMENTS.
- SIGN INSTALLATIONS SHALL COMPLY WITH ARTICLE 600 OF THE NATIONAL ELECTRIC CODE.
- SAWCUT EXISTING CONCRETE AND/OR ASPHALT ROADWAY TO ACCOMMODATE NEW WORK AS REQUIRED. PATCH TO MATCH EXISTING.



1	MARCH 2018	REVISIONS PER NVE COORDINATION	NO. DATE	REVISIONS
PREPARED BY: CITY OF LAS VEGAS				
DESIGNED BY: MHA				
DRAWN BY: WIP				
CHECKED BY: DM				
SUBMITTAL STAGE: FINAL				
TITLE: LAS VEGAS BOULEVARD NEON SIGNS, PHASE 3				
SHEET: SITE ELECTRICAL PLAN AND HISTORICAL SIGN PHOTOS				
E1				
6 of 7				
DRAWING NO. 107V4819-3				

PROJ#123668 AGR115473 QS136-34-NE

DEPARTMENT OF PUBLIC WORKS

Mayor:
CAROLYN G. GOODMAN

City Council:
LOIS TARKANIAN (Mayor Pro-Tem)
STAVROS S. ANTHONY
BOB COFFIN
STEVEN G. SEROKA
MICHELE FIORE
CEDRIC CREAR

City Manager:
SCOTT D. ADAMS

Director of Public Works:
MIKE JANSSEN, P.E., P.T.O.E.

City Engineer:
ALLEN E. PAVELKA, P.E.

Funded By:
CITY OF LAS VEGAS
SCENIC BYWAY GRANT



LAS VEGAS BOULEVARD NEON SIGNS, PHASE 3

Reviewed By:

Allen Pavelka 7-30-15
CLV CITY ENGINEER DATE

James Wadsworth 7/30/15
CLV CITY TRAFFIC ENGINEER (ACTING) DATE

R. S. Lamer 7/30/15
CLV CONSTRUCTION MANAGER DATE

Nadia S. Rushing 8-3-15
SOUTHWEST GAS CORPORATION DATE

Diane M. Schomer 8-3-15
CENTRAL TELEPHONE COMPANY DATE

d/b/a CENTURYLINK
THE AFFIXED CENTURYLINK NEVADA APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION STANDARD REGULATIONS.

Jim White 8-3-15
COK COMMUNICATIONS LAS VEGAS, INC. DATE

Patrice Dwyer 8-3-2015
NV ENERGY - DISTRIBUTION DATE
NV ENERGY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NV ENERGY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.

APPROVED FOR CONSTRUCTION
James Wadsworth for D.S.M.
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: 8/3/15 PROJECT# 123668
SHEETS: CV, GN, C1, TYP1, E0, E1

THE SIGNATURE ABOVE ACKNOWLEDGES THAT THE UTILITY COMPANY REPRESENTATIVE HAS REVIEWED THE PLANS, AND THAT TO THE BEST OF HIS OR HER KNOWLEDGE THE UTILITY LINES ARE SHOWN IN THE CORRECT LOCATIONS AND ARE THE CORRECT SIZES. WHILE SUCH DATA HAS BEEN COLLECTED WITH REASONABLE CARE, THERE IS NO EXPRESSED OR IMPLIED GUARANTEE THAT THE LOCATIONS ARE EXACT. THE CONTRACTOR SHALL BEAR THE RESPONSIBILITY OF OBTAINING THE ACTUAL FIELD LOCATIONS.

THE SIGNATURE ABOVE FURTHER ACKNOWLEDGES THAT THE UTILITY COMPANY DOES NOT ANTICIPATE CONSTRUCTION OR MAINTENANCE IN THE PROJECT AREA FOR FIVE (5) YEARS IN CONFORMANCE WITH THE CLV NO-CUT POLICY.

FEDERAL PROJECT NO. SB-0003(184)

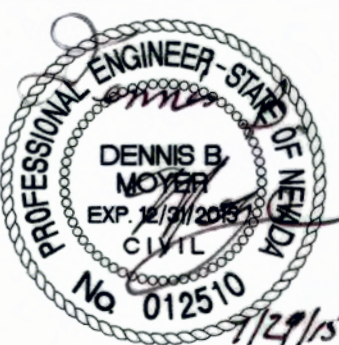


PREPARED BY
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
CAPITAL PROJECT MANAGEMENT

BID# 18.42371
DESIGNED BY: BP
DRAWN BY: BP
CHECKED BY: DM
DATE: JULY 2015
SUBMITTAL STAGE: FINAL

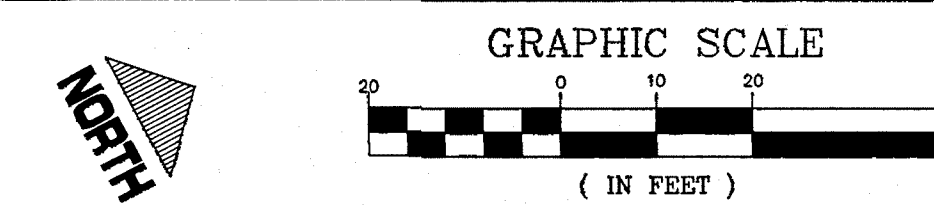
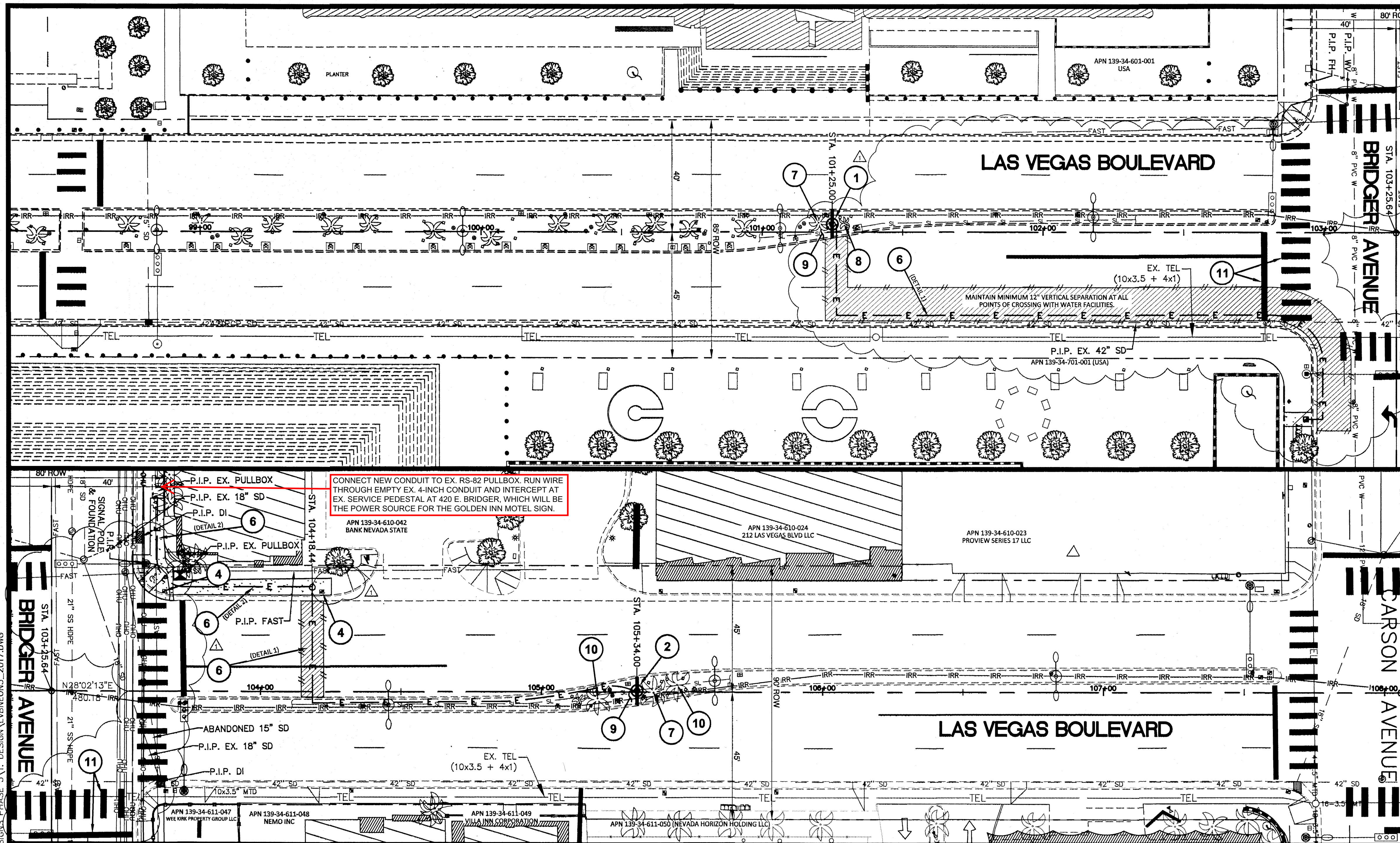
LAS VEGAS BOULEVARD
NEON SIGNS, PHASE 3
COVER SHEET

TITLE SHEET



CV
1 of 7
DRAWING NO.
107v4819-3

2/27/18 P:\PWL\ENG\DESIGN\DESIGN\LAS VEGAS BLVD - NEON SIGNS\PHASE 3\1. DESIGN\1\BONE3_2017.DWG



CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

CONSTRUCTION KEY NOTES

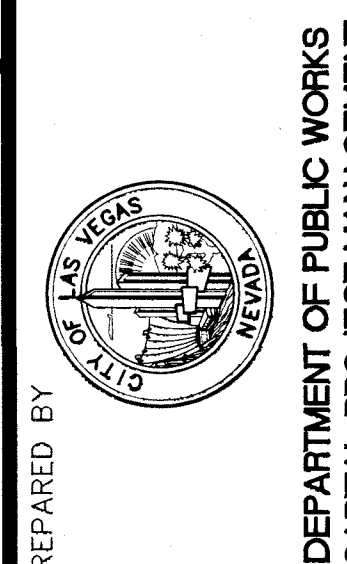
1. INSTALL "APACHE MOTEL" NEON SIGN ON NEW POLE (PER SECTION 639 OF THE SPECIAL PROVISIONS) WITH FOUNDATION (PER SECTION 602 OF THE SPECIAL PROVISIONS & USS) AND PER APPROVED SHOP DRAWINGS. SIGN & FOUNDATION PLACEMENT PER DETAIL 4 ON SHEET TYP1. SEE BELOW FOR HISTORICAL PHOTOS OF EXISTING SIGN.
2. INSTALL "GOLDEN INN MOTEL" NEON SIGN ON NEW POLE (PER SECTION 639 OF THE SPECIAL PROVISIONS) WITH FOUNDATION (PER SECTION 602 OF THE SPECIAL PROVISIONS & USS) AND PER APPROVED SHOP DRAWINGS. SIGN & FOUNDATION PLACEMENT PER DETAIL 4 ON SHEET TYP1. SEE BELOW FOR HISTORICAL PHOTOS OF EXISTING SIGN.
3. NOT USED.
4. ADJUST EXISTING PULLBOX TO GRADE (INCIDENTAL TO CONCRETE SIDEWALK PER SECTION 613 OF THE SPECIAL PROVISIONS).
5. NOT USED.
6. INSTALL CONDUIT PER ELECTRICAL PLANS BY COMFORT ENGINEERING, AND PER SECTION 670 OF THE SPECIAL PROVISIONS. TRENCH PER DETAILS ON SHEET TYP1 AND PER SECTION 208 OF THE SPECIAL PROVISIONS AND USS. PATCH PAVEMENT PER SECTION 208 OF SPECIAL PROVISIONS & USS, AND PER USD 600.3 AND 600.5. PRESERVE EXISTING CURB & GUTTER IN PLACE PER USD 752. REMOVE & REPLACE AFFECTED SIDEWALK AT EXISTING JOINTS PER USD NO. 234. REPLACE AFFECTED RAMPS PER USD NO. 235 (CASE II; A=B=8').
7. REMOVE AND SALVAGE LARGE TREE (OVER 15' TALL) PER SECTION 201 OF THE SPECIAL PROVISIONS.
8. REMOVE AND SALVAGE SMALL TREE (15' AND UNDER) PER SECTION 201 OF THE SPECIAL PROVISIONS.
9. CLEARING AND GRUBBING PER PER SECTION 201 OF THE SPECIAL PROVISIONS & USS. LIMITS SHALL BE MINIMIZED AND LIMITED TO IMMEDIATE AREA OF NEON SIGN FOUNDATIONS AND PROPOSED ELECTRICAL SYSTEM ONLY, AS DIRECTED IN THE FIELD BY CITY PROJECT REPRESENTATIVE. MODIFY LANDSCAPE LIGHTING AND IRRIGATION SYSTEM AS NEEDED TO MAINTAIN OVERALL OPERATION AND CONNECTIVITY THEREOF PER SECTIONS 212 & 213 OF THE SPECIAL PROVISIONS & USS.
10. PROTECT-IN-PLACE EXISTING TREE.
11. INSTALL CROSSWALK AND STOP BAR PAVEMENT MARKINGS WITH TYPE 2 FILM PER USD NO. 254 AND PER SECTION 628 OF THE SPECIAL PROVISIONS & USS.

DISCLAIMERS

1. STATIONING FOR CONDUIT CROSSINGS AND TERMINI IS APPROXIMATE. CONDUIT SHOWN IS DIAGRAMMATIC ONLY. EXACT ALIGNMENT OF CONDUIT AND EXACT PATCH LIMITS SHALL BE FIELD DETERMINED BY THE CITY ENGINEERS REPRESENTATIVE.
2. PHOTOS PROVIDED FOR BASIC INFORMATIONAL PURPOSES ONLY. SIGNS MUST BE EXAMINED BY CONTRACTOR PER SECTION 102.05 OF THE SPECIAL PROVISIONS AND RESTORED PER SECTION 639. COORDINATE VIEWING AND RESTORATION WITH DANIELLE KELLY (702-387-6366).

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: 3/14/18 PROJECT# 123668
1st Approved 8/3/15
FEDERAL PROJECT NO. SB-0003(184)

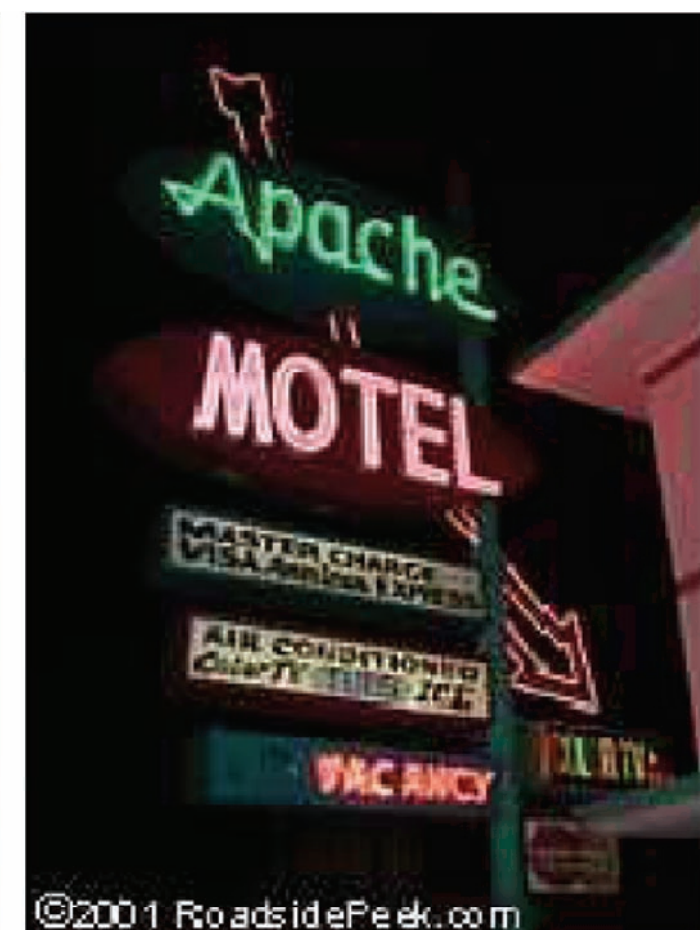
REVISIONS	NO.	DATE	REVISIONS
2/27/18	1		REVISIONS



PREPARED FOR	CITY OF LAS VEGAS
DESIGNED BY	BP
DRAWN BY	BP
CHECKED BY	DM
DATE	FEBRUARY 2018
SUBMITTAL STAGE	FINAL

LAS VEGAS BOULEVARD
NEON SIGNS, PHASE 3
CIVIL IMPROVEMENTS PLAN
AND HISTORICAL SIGN PHOTOS

TITLE	SHEET
C1	3 of 7
DRAWING NO.	107v4819-3



HISTORICAL PHOTOS OF "APACHE MOTEL" SIGN



HISTORICAL PHOTOS OF "GOLDEN INN MOTEL" SIGN

PROJ# 123668 AGR 115473 QS 139-34-NE

DEPARTMENT OF PUBLIC WORKS

Mayor:
CAROLYN G. GOODMAN

City Council:
 LOIS TARKANIAN (Mayor Pro-Tem)
 STAVROS S. ANTHONY
 BOB COFFIN
 STEVEN G. SEROKA
 MICHELE FIORE
 CEDRIC CREAR

City Manager:
SCOTT D. ADAMS

Director of Public Works:
MIKE JANSSEN, P.E., P.T.O.E.

City Engineer:
ALLEN E. PAVELKA, P.E.

Funded By:
CITY OF LAS VEGAS
SCENIC BYWAY GRANT



LAS VEGAS BOULEVARD NEON SIGNS, PHASE 3

Reviewed By:

CLV CITY ENGINEER 7-30-15
DATE

CLV CITY TRAFFIC ENGINEER (ACTING) 7/30/15 DATE

CLV CONSTRUCTION MANAGER 4/30/15
DATE

Maia S. Rushing 8-3-15
SOUTHWEST GAS CORPORATION DATE

Diane M Schomer 8-3-15
CENTRAL TELEPHONE COMPANY DATE

THE AFFIXED CENTURYLINK NEVADA APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION STANDARD REGULATIONS.

Brian White 8.3.15
COX COMMUNICATIONS LAS VEGAS, INC. DATE

Danica Arnold 8-3-2015
NV ENERGY – DISTRIBUTION DATE
 NV ENERGY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NV ENERGY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSIONS RULES AND REGULATIONS.

APPROVED FOR CONSTRUCTION

[Signature] for D.S.M.

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE: 8/3/15 PROJECT# 123668

SHEETS: 01 02 03 04 05 06 07 08 09 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 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024

THE SIGNATURES ABOVE ACKNOWLEDGES THAT THE UTILITY COMPANY REPRESENTATIVE HAS REVIEWED THE PLANS, AND THAT TO THE BEST OF HIS OR HER KNOWLEDGE THE UTILITY LINES ARE SHOWN IN THE CORRECT LOCATIONS AND ARE THE CORRECT SIZES. WHILE SUCH DATA HAS BEEN COLLECTED WITH REASONABLE CARE, THERE IS NO EXPRESSED OR IMPLIED GUARANTEE THAT THE LOCATIONS ARE EXACT. THE CONTRACTOR SHALL BEAR THE RESPONSIBILITY OF OBTAINING THE ACTUAL FIELD LOCATIONS.

THE SIGNATURE ABOVE FURTHER ACKNOWLEDGES THAT THE UTILITY COMPANY DOES NOT ANTICIPATE CONSTRUCTION OR MAINTENANCE IN THE PROJECT AREA FOR FIVE (5) YEARS IN CONFORMANCE WITH THE CLV NO-CUT POLICY.

FEDERAL PROJECT NO. SB-0003(184)

TITLE LAS VEGAS BOULEVARD NEON SIGNS, PHASE 3 SHEET COVER SHEET				PREPARED FOR CITY OF LAS VEGAS				PREPARED BY DEPARTMENT OF PUBLIC WORKS CAPITAL PROJECT MANAGEMENT	
		SHEET CV 1 of 7		H# 42371 DATE: JULY 2015 SUBMITTAL STAGE: FINAL		BID# 18.42371 DESIGNED BY: BP DRAWN BY: BP CHECKED BY: DM			
SHEET CV 1 of 7		DRAWING NO. 107v4819-3		NO. DATE SHEET REVISIONS		NO. DATE SHEET REVISIONS			

7/29/15 F:\PW_ENG_DESIGN\DESIGN\LAS VEGAS BLVD - NEON SIGNS PHASE 3\1. DESIGN\DESIGN_LVBNEON3_2014030.DWG

CITY OF LAS VEGAS GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST EDITION. THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION, THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA, AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY, THE UNIFORM BUILDING CODE, AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
- THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER OR OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
- ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
- TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGN TO BE APPROVED BY THE QUALITY CONTROL DIVISION, PRIOR TO THE USE ON THE PROJECT.
- PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
- EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
- AC PAVEMENT TO BE 1/2" ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS.
- CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR-TENTHS OF ONE PERCENT SHALL BE WATER-TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION. ANY CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY SHALL BE REMOVED AND REPLACED PER USD 216.
- SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER USD 235. CASE I. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY PROJECT REPRESENTATIVE.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS, OR AS DESIGNATED IN THE FIELD BY CITY PROJECT REPRESENTATIVE.
- EXACT LOCATION OF ALL SAWCUT LINES MAY BE DETERMINED IN THE FIELD BY A CITY PROJECT REPRESENTATIVE IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED, AND SHALL BE DONE ONLY BY A NEVADA PROFESSIONAL LAND SURVEYOR IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS - CLARK COUNTY AREA. A RECORD-OF-SURVEY FOR REPLACEMENT OF PERMANENT SURVEY MONUMENTS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL PRIOR TO RECORDING. THE RECORD-OF-SURVEY SHALL BE PREPARED IN ACCORDANCE WITH NEVADA REVISED STATUTES 625.350.
- UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE AFFECTED UTILITY COMPANY AND THE CITY ENGINEER.
- ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS, FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE CLV BUILDING DEPARTMENT.
- ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHTS OF WAY.
- CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, SEWER CLEANOUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
- MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT AND CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
- WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC. THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE ENGINEER CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
- NEWLY INSTALLED AND EXISTING UTILITIES EXPOSED DURING CONSTRUCTION SHALL BE SURVEYED AND DOCUMENTED PER SECTION 822 OF THE SPECIAL PROVISIONS.
- CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST ADDITION.
- A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISED JULY 23, 2015 (CPM VERSION)

ABBREVIATIONS

AB	ABANDONED	LF	LINEAL FOOT, LINEAR FEET
AS	ASPHALTIC CONCRETE	LT	LEFT
ACP	ASBESTOS CEMENT PIPE	LV	LAS VEGAS VALLEY WATER DISTRICT
AEP	AUTHORIZATION TO ENTER PROPERTY	LVWVD	MANHOLE
APPROX	APPROXIMATE	MLCP	MULTI-LAYER COMPOSITE PIPE
AVAR	AIR VALVE ASSEMBLY	MTR	METER
B/C, BC	BACK OF CURB	NDOT	NVADA DEPT OF TRANSPORTATION
BCR	BACK OF CURB RADIUS	NTS	NOT TO SCALE
BCH	BENCHMARK	NVE	NV ENERGY
BOT	BOTTOM	OHU	OVERHEAD UTILITY LINE
BR	BACK OF RAMP	PB	PULL BOX
C & G	CURB AND GUTTER	PC	POINT OF CURVATURE
CATV, TV	CABLE TELEVISION	P.I.P	PROTECT IN PLACE
CC	CLARK COUNTY	PP	POWER POLE
CCPW	CLARK COUNTY PUBLIC WORKS	PPC	POINT OF REVERSE CURVE
CIPP	CURED-IN-PLACE PIPE	PT	POINT OF TANGENCY
CL	CENTERLINE	R, PL	PROPERTY LINE
CLSM	CONTROLLED LOW STRENGTH MATERIAL	RADIUS	RIGHT RIGHT
CLV	CITY OF LAS VEGAS	R.F.W, R.O.W.	RIGHT OF WAY
CMF	CORRUGATED METAL PIPE	SCCP	STEEL CYLINDER CONCRETE PIPE
CONC	CONCRETE	SD	STORM DRAIN
COND	CONDUCTOR	SF	SQUARE FOOT
CPM	CAPITAL PROJECT MANAGEMENT	SP	SPECIAL PROVISIONS
D, DIA	DIAMETER	SS	SANITARY SEWER
D, DIA	DIAMETER	STA	STATION
D/W	DECOMPOSED GRANITE	STD	STANDARD
DWG	DRIVEWAY	STL	STREET LIGHT
EDR	DRAWING	STW	SPRINKLER VALVE
ELEC	END OF CURB RETURN (AT B/C)	SV	SIDEWALK
ELEV	ELECTRIC	SWG	SOUTHWEST GAS
ELEV	ELEVATION	SY	SQUARE YARD
EOP, EP	EDGE OF PAVEMENT	T, TEL	TELEPHONE
EX	EXISTING	TBD	TO BE DETERMINED
FAST	FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION (INTERCONNECT AND FIBER OPTIC CABLE)	TC	TOP OF CURB
FC	FACE OF CURB	TCE	TEMP. CONSTRUCTION EASEMENT
FD	FOUND	TEMP	TEMPORARY
FGD	FRESH GRADE	TRANS	TRANSITION
PH, HYD	FIRE HYDRANT	TRC	TOP OF RAMP CURB
FT	FOOT, FEET	TS	TRAFFIC SIGNAL
G	GAS	TYP	TYPICAL
GM	GAS METER	USD	UNIFORM STANDARD DRAWING
GV	GAS VALVE	USS	UNIFORM STD SPECIFICATIONS
GW	GUY WIRE	W	WATER LINE
HP	HIGH PRESSURE	WC	WHEEL CHAIR
INT	INTERSECTION	WM	WATER METER
IRR	IRRIGATION	WW	WATER VALVE
L	LENGTH	W	WITH
		Δ	INCLUDED DELTA ANGLE

RTC/FAST NOTES

- THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE MORE THAN ONE CONSECUTIVE BUS STOP ON THE SAME SIDE OF THE STREET. TEMPORARY CLOSURES SHALL BE PWD (PERSONS WITH DISABILITY) ACCESSIBLE BEFORE ANY BUS STOP CAN BE CLOSED. THE CONTRACTOR SHALL NOTIFY CARL SCARBROUGH AT (702) 676-1608 OR ERIC TRAASDAHL AT (702) 676-1833, AT LEAST SEVEN WORKING DAYS IN ADVANCE.
- THE CONTRACTOR SHALL SUBMIT A BUS STOP CLOSURES SCHEDULE WITH THE TRAFFIC CONTROL PLAN. THE BUS STOP CLOSURE SCHEDULE SHALL IDENTIFY SPECIFIC DURATIONS AND TIMES OF THE DAY FOR ALL PROPOSED BUS STOP CLOSURES. BUS STOP CLOSURES ARE NOT TO EXCEED TWO CONSECUTIVE STOPS AT ONE TIME, OR MORE THAN 1,000 FEET AT A TIME. PERSONS WITH DISABILITIES SHALL HAVE ACCESS TO BUS STOPS. THE CONTRACTOR SHALL PROVIDE A 100 FOOT LONG BY 10 FEET WIDE GRAVELED TURN OUT AT TEMPORARY BUS STOPS.
- THE CONTRACTOR IS TO MAINTAIN AND KEEP OPERATIONAL ALL EXISTING ITS INFRASTRUCTURE WITHIN THE CONSTRUCTION LIMITS. IF ANY EXISTING ITS INFRASTRUCTURE IS DAMAGED DUE TO CONSTRUCTION WITHIN THE PROJECT LIMITS THE CONTRACTOR IS TO IMMEDIATELY CONTACT MR. JESUS "CHUY" MARMOLEJO (RTC/FAST MANAGER TRAFFIC SYSTEMS MAINTENANCE) AT 702-604-7078 CELL OR AT 702-432-5300 GENERAL.

REVISED MAY 13, 2015

CITY OF LAS VEGAS GRADING NOTES

- IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
- CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
- THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
- CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

A. PAVEMENT AREA SUBGRADE	HORIZONTAL	VERTICAL
B. ENGINEERED FILL	0.1" ±	+0.0 TO -0.1"
	0.5" ±	+0.1 TO -0.1"

COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE. COMPACTION SHALL COMPLY WITH THE REQUIREMENTS OF THE ENGINEER.
- ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
- THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
- THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
- IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, SUCH ITEM SHALL BE PROVIDED, AS DIRECTED BY THE CITY ENGINEER, AT NO EXPENSE TO THE CITY OF LAS VEGAS. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISED JULY 2008 (CPM VERSION)

CITY OF LAS VEGAS TRAFFIC NOTES

- ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
- THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
- BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCRoACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
- WHEN A DESIGNATED "SUGGESTED ROUTE TO SCHOOL" IS ENCRoACHED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
- IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL UTILIZE TYPE XI RETROREFLECTIVE SHEETING IN ACCORDANCE WITH CCAUSS 827 AND 716 AND SHALL HAVE AN ANTI-GRAFFITI PROTECTIVE OVERLAY FILM THAT IS A MATCHING COMPONENT TO, AND OF THE SAME MANUFACTURER AS THE RETROREFLECTIVE SHEETING TO WHICH IT IS APPLIED. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
- WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5) FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
- ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC TO ENTER THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
- STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
- WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING RTG TRANSIT IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
- GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
- ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECTS OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

REVISED JULY 13, 2013

CITY OF LAS VEGAS TRAFFIC SIGNAL NOTE

ALL EXISTING TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.

BASIS OF BEARINGS

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS ZONE, NORTH AMERICAN DATUM OF 1983: SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

LINEAR UNIT: US SURVEY FOOT (FTUS)

DATUM (REFERENCE FRAME): NAD 1983 (CORS 96) EPOCH 2000.0

SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)

ZONE: LAS VEGAS

PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00"N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00"W
NORTHING AT GRID ORIGIN: 200,000,000 M (656,166,667 FTUS)
EASTING AT GRID ORIGIN: 100,000,000 M (328,083,333 FTUS)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.0001 (EXACT)

NOTES:

- DISTANCES AND BEARINGS SHOWN HEREON ARE PROJECTED (GRID) VALUES BASED ON THE PRECEDING PROJECTION DEFINITION. THE PROJECTION WAS DEFINED SUCH THAT PROJECTED (GRID) DISTANCES ARE EQUIVALENT TO "GROUND" DISTANCES IN THE PROJECT AREA.
- GRID BEARINGS SHOWN HEREON (OR IMPLIED BY GRID COORDINATES) DO NOT EQUAL GEODETIC BEARINGS DUE TO MERIDIAN CONVERGENCE.

BENCHMARK

PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVDD88)

CITY OF LAS VEGAS BENCHMARK: 8LV11-35WVW6 2008 ADJUSTMENT (UPDATED 5/24/2010 NAVDD88 ELEVATION: 619.854 METERS (2033.64 FEET)

RIVET AND PLATE IN TOP OF CURB AT NORTHEAST CORNER OF LAS VEGAS BOULEVARD AND ST LOUIS (ALSO STAMPED STLOUIS3).

LVWVD STANDARD NOTES

- | LVWVD PROJECT # | 123668 |
|-----------------|--------|
|-----------------|--------|
- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVWVD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVWVD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVWVD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
 - ALL WORK SHALL CONFORM TO LVWVD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
 - ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
 - A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVWVD.
 - ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVWVD APPROVED SERVICE SADDLES.
 - ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
 - ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
 - ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
 - ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVWVD DISTRIBUTION SYSTEM.
 - THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVWVD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
 - ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVWVD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
 - ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVWVD PRE-APPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.
 - TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600
 - THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVWVD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVWVD TO THE MUNICIPAL FACILITIES WILL INCLUDE THE PLACEMENT OF ANY APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

ANY DECORATIVE PAVING SURFACING WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNERS ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNERS ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVWVD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVWVD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVWVD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVWVD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: 8/3/15 PROJECT# 123668

CITY OF LAS VEGAS STREET LIGHT NOTES

- ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS. THE "UNIFORM STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST REVISION, AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION.
- NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC AND CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 823 OF THE SPECIFICATIONS.
- ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
- ALL EMPTY CONDUIT SHALL HAVE PULL STRINGS AND A #8 AWG TRACER WIRE INSTALLED PER SECTION 823 G.02.01 OF THE SPECIFICATIONS PRIOR TO BACKFILLING AND FINAL INSPECTION.
- ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN COMPLIANCE WITH USD NO. 320A WHEN POLE IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.
- AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TRAFFIC ENGINEERING DIVISION PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
- SERVICE POINTS SHALL BE COORDINATED WITH NV ENERGY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT OR AS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL FURNISH COMPLETE CONDUIT, WIRE, ETC. FROM SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS OR IN THE SPECIAL PROVISIONS.
- ALL STREET LIGHTING AND TRAFFIC SIGNAL EQUIPMENT REMOVED AND / OR DESIGNATED TO BE SALVAGED SHALL BE DELIVERED BY THE CONTRACTOR TO THE APPROPRIATE CLV SERVICE YARD WITH A MEANS TO UNLOAD. A MINIMUM 24-HOUR NOTICE OF DELIVERY IS REQUIRED. CALL 229-6321 TO SET UP DELIVERY TIME AND LOCATION. REPAIR OF ANY DAMAGE TO EQUIPMENT DURING THIS PROCESS WILL BE THE CONTRACTOR'S RESPONSIBILITY, AT NO ADDITIONAL COST TO THE CITY.

REVISED FEBRUARY 10, 2010 (CPM VERSION)

LEGEND

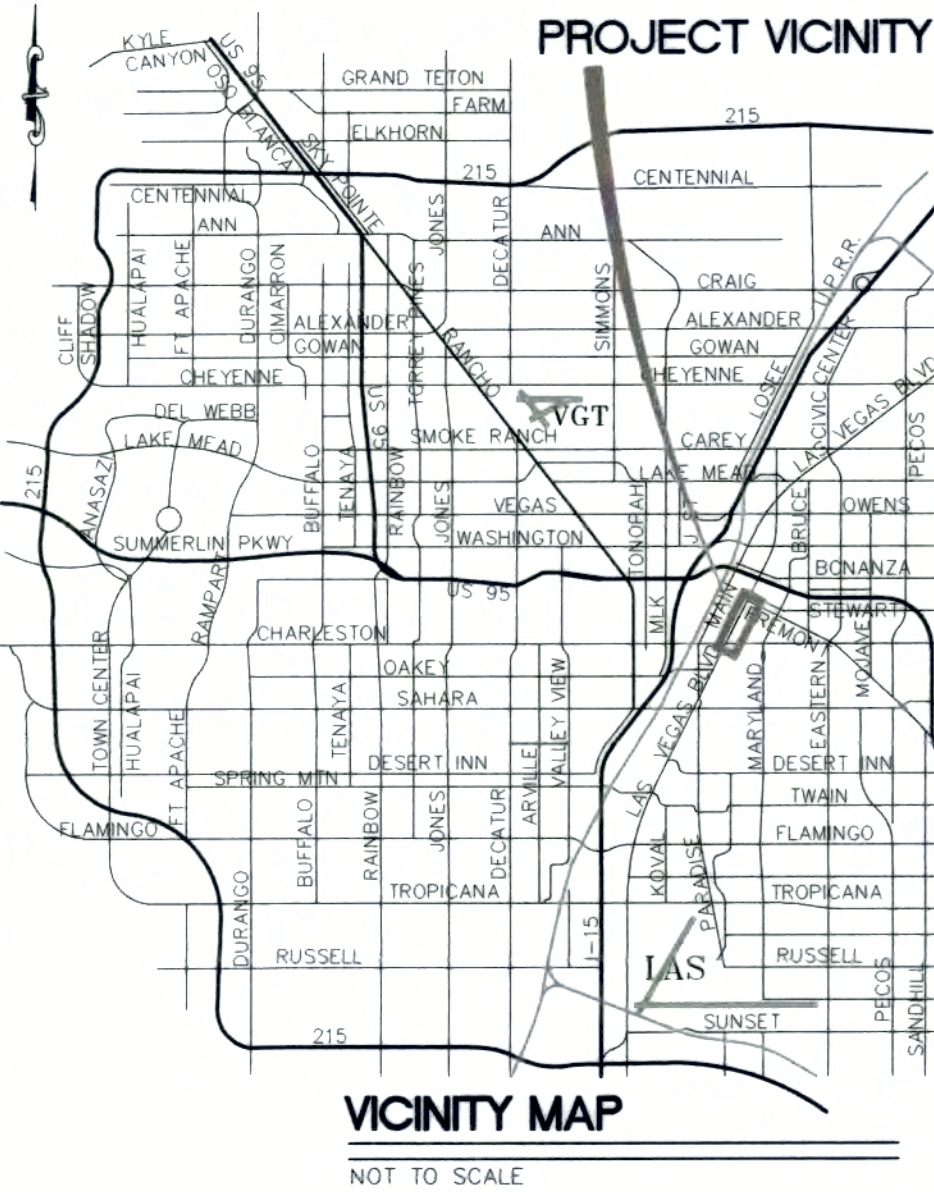
---	CENTERLINE	---	
---	RIGHT OF WAY LINE	---	
---	PROPERTY LINE	---	
---	AUTHORIZATION TO ENTER PROPERTY (AEP)	---	
---	PATCH / SAWCUT LINE	---	
☆	AREA LIGHT	⬢	STORM DRAIN INLET
⬢	BENCHMARK	⊕	STORM DRAIN MH
⬢	ELEC. VAULT/CABINET	⊕	STREET LIGHT
⊕	ELECTRIC MANHOLE	⬢	STREET LIGHT PB
⬢	ELECTRIC METER	⊕	TELEPHONE MH
⊕	FIRE HYDRANT	⬢	TELEPHONE PB
⊕	FOUND MONUMENT	⊕	TRAFFIC SIGNAL POLE
⬢	GAS METER	⬢	TRAFFIC SIGNAL PB
⬢	GAS VALVE	⬢	TV PULLBOX
⬢	IRR. CONTROLLER	⬢	UTILITY POLE
⬢	IRR. VALVE	⬢	UTILITY POLE GUY WIRE
⬢	LANDSCAPE LIGHTING	⬢	UTILITY VAULT
⬢	SANITARY SEWER MH	⬢	WATER VAULT/CABINET
⬢	SET MONUMENT	⬢	WATER MANHOLE
⬢	SIDEWALK RAMP	⬢	WATER METER
⬢	SIGN	⬢	WATER VALVE

SHEET INDEX

1	CV	COVER SHEET
2	GN	NOTES, LEGEND, KEY MAP AND INDEX
3	C1	CIVIL IMPROVEMENTS PLAN AND HISTORICAL SIGN PHOTOS
4	TYP1	TYPICAL DETAILS
5-7	E0-E2	ELECTRICAL PLANS

ATTACHED: NV ENERGY PLANS, SHEETS 1 & 2 (PROJECT ID: 3000772851)

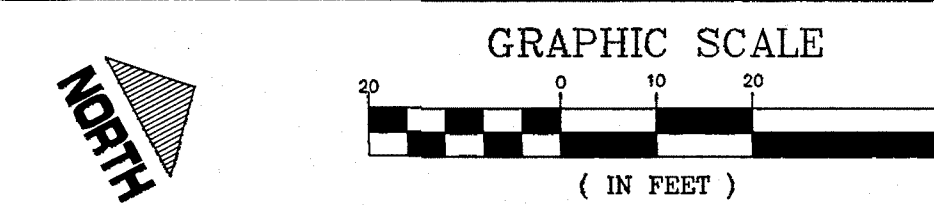
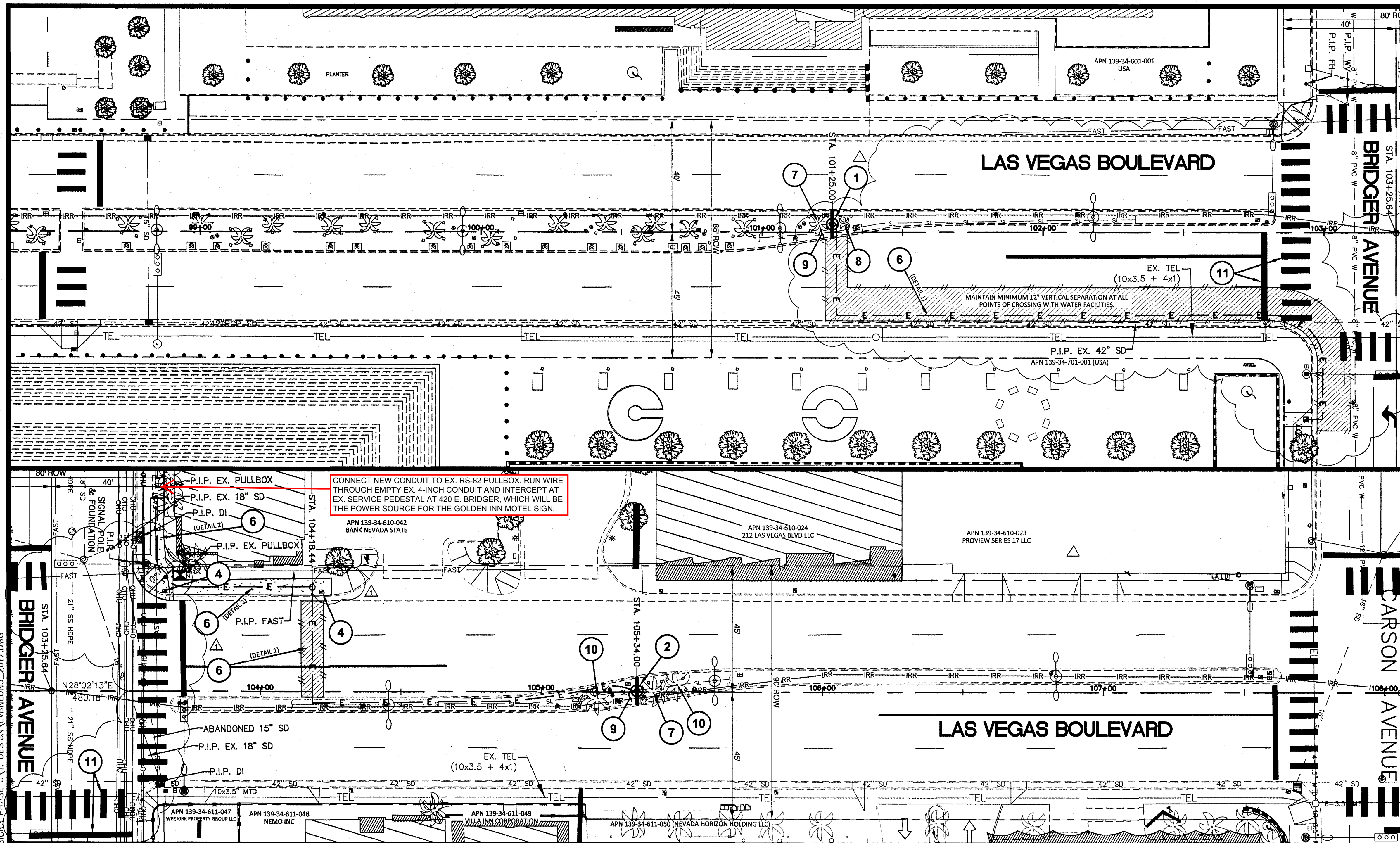
CALL BEFORE CONSTRUCTION		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
	F.A.S.T.	702-432-5300
BEFORE YOU UNDERGROUND	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929



FEDERAL PROJECT NO. SB-0003(184)

PREPARED FOR		CITY OF LAS VEGAS		DESIGNED BY: BP		DRAWN BY: BP		CHECKED BY: DM	
TITLE		LAS VEGAS BOULEVARD NEON SIGNS, PHASE 3		DATE: JULY 2015		SUBMITTAL STAGE: FINAL		NO. DATE	
SHEET		GN		2 of 7		DRAWING NO. 107V4819-3		DEPARTMENT OF PUBLIC WORKS CAPITAL PROJECT MANAGEMENT	

2/27/18 P:\PW\ENG\DESIGN\DESIGN\LAS VEGAS BLVD - NEON SIGNS\PHASE 3\1. DESIGN\1\BONE3_2017.DWG



CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

CONSTRUCTION KEY NOTES

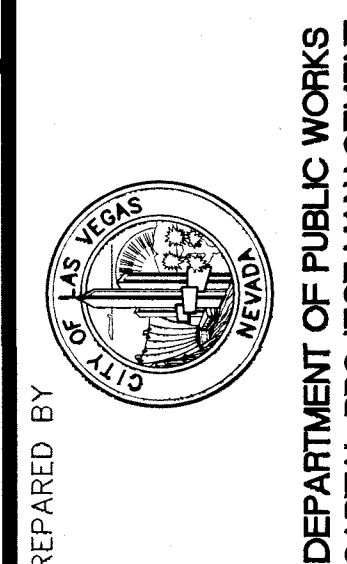
1. INSTALL "APACHE MOTEL" NEON SIGN ON NEW POLE (PER SECTION 639 OF THE SPECIAL PROVISIONS) WITH FOUNDATION (PER SECTION 602 OF THE SPECIAL PROVISIONS & USS) AND PER APPROVED SHOP DRAWINGS. SIGN & FOUNDATION PLACEMENT PER DETAIL 4 ON SHEET TYP1. SEE BELOW FOR HISTORICAL PHOTOS OF EXISTING SIGN.
2. INSTALL "GOLDEN INN MOTEL" NEON SIGN ON NEW POLE (PER SECTION 639 OF THE SPECIAL PROVISIONS) WITH FOUNDATION (PER SECTION 602 OF THE SPECIAL PROVISIONS & USS) AND PER APPROVED SHOP DRAWINGS. SIGN & FOUNDATION PLACEMENT PER DETAIL 4 ON SHEET TYP1. SEE BELOW FOR HISTORICAL PHOTOS OF EXISTING SIGN.
3. NOT USED.
4. ADJUST EXISTING PULLBOX TO GRADE (INCIDENTAL TO CONCRETE SIDEWALK PER SECTION 613 OF THE SPECIAL PROVISIONS).
5. NOT USED.
6. INSTALL CONDUIT PER ELECTRICAL PLANS BY COMFORT ENGINEERING, AND PER SECTION 670 OF THE SPECIAL PROVISIONS. TRENCH PER DETAILS ON SHEET TYP1 AND PER SECTION 208 OF THE SPECIAL PROVISIONS AND USS. PATCH PAVEMENT PER SECTION 208 OF SPECIAL PROVISIONS & USS, AND PER USD 600.3 AND 600.5. PRESERVE EXISTING CURB & GUTTER IN PLACE PER USD 752. REMOVE & REPLACE AFFECTED SIDEWALK AT EXISTING JOINTS PER USD NO. 234. REPLACE AFFECTED RAMPS PER USD NO. 235 (CASE II; A=B=8').
7. REMOVE AND SALVAGE LARGE TREE (OVER 15' TALL) PER SECTION 201 OF THE SPECIAL PROVISIONS.
8. REMOVE AND SALVAGE SMALL TREE (15' AND UNDER) PER SECTION 201 OF THE SPECIAL PROVISIONS.
9. CLEARING AND GRUBBING PER PER SECTION 201 OF THE SPECIAL PROVISIONS & USS. LIMITS SHALL BE MINIMIZED AND LIMITED TO IMMEDIATE AREA OF NEON SIGN FOUNDATIONS AND PROPOSED ELECTRICAL SYSTEM ONLY, AS DIRECTED IN THE FIELD BY CITY PROJECT REPRESENTATIVE. MODIFY LANDSCAPE LIGHTING AND IRRIGATION SYSTEM AS NEEDED TO MAINTAIN OVERALL OPERATION AND CONNECTIVITY THEREOF PER SECTIONS 212 & 213 OF THE SPECIAL PROVISIONS & USS.
10. PROTECT-IN-PLACE EXISTING TREE.
11. INSTALL CROSSWALK AND STOP BAR PAVEMENT MARKINGS WITH TYPE 2 FILM PER USD NO. 254 AND PER SECTION 628 OF THE SPECIAL PROVISIONS & USS.

DISCLAIMERS

1. STATIONING FOR CONDUIT CROSSINGS AND TERMINI IS APPROXIMATE. CONDUIT SHOWN IS DIAGRAMMATIC ONLY. EXACT ALIGNMENT OF CONDUIT AND EXACT PATCH LIMITS SHALL BE FIELD DETERMINED BY THE CITY ENGINEERS REPRESENTATIVE.
2. PHOTOS PROVIDED FOR BASIC INFORMATIONAL PURPOSES ONLY. SIGNS MUST BE EXAMINED BY CONTRACTOR PER SECTION 102.05 OF THE SPECIAL PROVISIONS AND RESTORED PER SECTION 639. COORDINATE VIEWING AND RESTORATION WITH DANIELLE KELLY (702-387-6366).

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: 3/14/18 PROJECT# 123668
1st APPROVED 8/3/15
FEDERAL PROJECT NO. SB-0003(184)

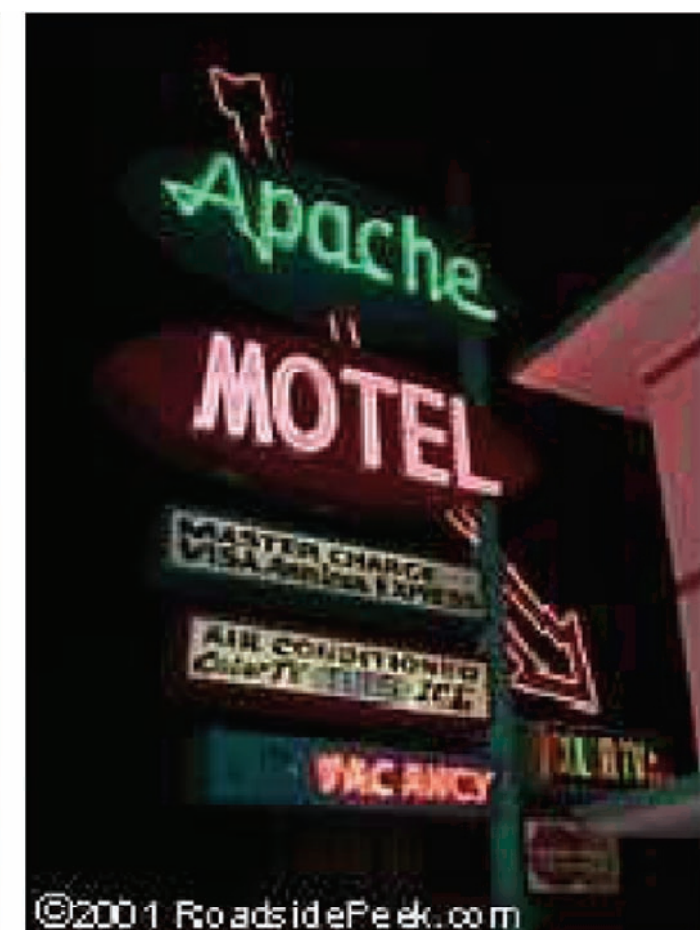
REVISIONS	NO.	DATE	REVISIONS
2/27/18	1		REVISION CONDUIT DESIGN, STRIPPING, AND TYPICAL DETAILS



PREPARED FOR	CITY OF LAS VEGAS
DESIGNED BY	BP
DRAWN BY	BP
CHECKED BY	DM
DATE	FEBRUARY 2018
SUBMITTAL STAGE	FINAL

LAS VEGAS BOULEVARD
NEON SIGNS, PHASE 3
CIVIL IMPROVEMENTS PLAN
AND HISTORICAL SIGN PHOTOS

TITLE	SHEET
C1	3 of 7
DRAWING NO.	107v4819-3



HISTORICAL PHOTOS OF "APACHE MOTEL" SIGN



HISTORICAL PHOTOS OF "GOLDEN INN MOTEL" SIGN

PROJ# 123668 AGR 115473 QS 139-34-NE



APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES' MANAGER

DATE: 3/14/18 PROJECT# 123668

1st App 8/2/15 FEDERAL PROJECT NO. SB-0003(184)

TITLE

3/8/18 \\CELLOCAL\DFS\CAD\A\CTDC14\CLV\14-0233 LV BLVD NEON SIGN PHASE 3\ELEC\14-0233 LV BLVD NEON.DWG

SPECIFICATIONS

SCOPE OF WORK:

THE CONTRACTOR SHALL PROVIDE ALL ELECTRICAL EQUIPMENT, MATERIALS AND LABOR NECESSARY FOR A COMPLETE AND OPERABLE ELECTRICAL SYSTEM, INCLUDING BUT NOT LIMITED TO THE FOLLOWING ITEMS, AND SHALL PERFORM WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

- COORDINATE WITH POWER UTILITY AND SHALL PROVIDE ALL THE NECESSARY LABOR AND MATERIALS REQUIRED THAT ARE NOT PROVIDED BY THE UTILITY. SEE STANDARDS AND PROJECT DRAWINGS ISSUED BY THE UTILITIES.
- PROVIDE NEW METER/MAIN PANELBOARDS AS SHOWN OR AS REQUIRED FOR THIS PROJECT.
- PHASE 3 WILL BE CONDUIT INSTALLATION ONLY. WIRING WILL BE INSTALLED IN FUTURE, NOT PART OF THIS CONTRACT.

THE CONTRACTOR SHALL PROVIDE EQUIPMENT AND/OR INCIDENTAL MATERIALS REQUIRED TO COMPLETE THE ELECTRICAL WORK. TYPICAL MATERIALS WHICH MAY BE INCIDENTAL ARE TERMINAL LUGS NOT FURNISHED WITH VENDOR-SUPPLIED EQUIPMENT, COMPRESSION CONNECTORS FOR CABLES, SPLICES, JUNCTION AND TERMINAL BOXES, AND CONTROL WIRES BY VENDOR-FURNISHED EQUIPMENT TO INTERCONNECT WITH OTHER EQUIPMENT.

THE WORK SHALL ALSO INCLUDE THE COMPLETION OF DETAILS OF ELECTRICAL WORK ETC. NOT SHOWN WHICH MAY BE NECESSARY FOR THE SUCCESSFUL OPERATION OF ALL SYSTEMS DESCRIBED ON THE DRAWINGS AND INSTALLED AS PART OF THIS CONTRACT.

CODES, REGULATIONS AND STANDARDS:

THE FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS AND CODES ARE MINIMUM REQUIREMENTS.

- THE LATEST NATIONAL ELECTRICAL CODE (NEC), AS ADOPTED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION.
- THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION STANDARDS (NEMA).
- UNDERWRITERS LABORATORIES INCORPORATED (U.L.).
- AMERICAN STANDARDS ASSOCIATION.
- BUILDING CODE(S) AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION.

ALL EQUIPMENT AND MATERIALS SHALL BE APPROVED BY AND SHALL BEAR THE LABEL OF UNDERWRITERS LABORATORIES INCORPORATED (U.L.) OR BE APPROVED AND LABELED BY AN INDEPENDENT TESTING LABORATORY ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

THE CONSTRUCTION AND INSTALLATION OF THE ELECTRICAL EQUIPMENT AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE OSHA SAFETY AND HEALTH STANDARDS (29CFR1910 AND 29CFR1926, AS APPLICABLE), STATE BUILDING STANDARDS, AND APPLICABLE CODES AND REGULATIONS.

INSPECTION OF SITE AND OF OTHER TRADES' DRAWING(S):

PRIOR TO SUBMITTING A BID FOR ELECTRICAL WORK THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED CONSTRUCTION AND SHALL THOROUGHLY ACQUAINT HIMSELF/HERSELF WITH THE EXISTING UTILITIES AND WORKING CONDITIONS TO BE ENCOUNTERED. NO ALLOWANCE WILL BE MADE AFTER CONTRACT AWARD FOR FAILURE TO COMPLY WITH THIS CONDITION PRIOR TO BIDDING.

REFER TO ALL OTHER DRAWINGS THAT PERTAIN TO THIS PROJECT AND REPORT ANY CONFLICTS WITH THE DESIGN AND INTENT OF THESE DOCUMENTS. SEE GENERAL SPECIFICATION NOTES AND CAUTION TO CONTRACTOR (BELOW).

STORAGE AND HANDLING:

DELIVER MATERIALS AND EQUIPMENT TO THE PROJECT IN THE MANUFACTURER'S ORIGINAL, UNOPENED, LABELED CONTAINERS. PROTECT AGAINST MOISTURE, TAMPERING, OR DAMAGE FROM IMPROPER HANDLING, ETC.

ARRANGE FOR TIMELY DELIVERY OF MATERIALS AND EQUIPMENT TO THE JOB SITE IN ORDER TO MINIMIZE THE LENGTH OF TIME BETWEEN DELIVERY AND INSTALLATION.

COVER AND PROTECT ANY MATERIALS WHICH MAY BE AFFECTED BY THE WEATHER WHILE IN TRANSIT OR STORED AT THE PROJECT SITE. ANY MATERIAL FOUND DEFECTIVE OR NOT FUNCTIONAL OR NOT INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS MAY BE REJECTED BY THE ENGINEER, OWNER OR AUTHORITY HAVING JURISDICTION.

THE CONTRACTOR SHALL SECURE AND PROTECT ALL MATERIALS AND EQUIPMENT AND BE RESPONSIBLE FOR ANY DAMAGE. ANY DAMAGE OR LOSS THAT MAY OCCUR DURING THIS PERIOD SHALL BE REPAIRED OR REPLACED TO ITS ORIGINAL CONDITION WITHOUT ADDITIONAL COST TO THE OWNER OR ENGINEER.

CLEANUP:

KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY EMPLOYEES, OR BY WORK UNDER THIS DIVISION OF THE SPECIFICATIONS. AT THE COMPLETION OF THE WORK, REMOVE ALL SURPLUS MATERIALS, TOOLS, ETC. AND LEAVE THE PREMISES CLEAN (I.E., BROOM CLEAN).

EXCAVATION BACKFILL:

WHERE APPLICABLE, THE CONTRACTOR SHALL PERFORM ALL EXCAVATION AND BACKFILL REQUIRED FOR WORK UNDER THIS DIVISION OF THE SPECIFICATION. TRENCH BOTTOMS SHALL BE GRADED TRUE AND BE FREE OF DEBRIS, STONES OR SOFT SPOTS. USE EXCAVATED MATERIALS FOR BACKFILL UNLESS OFF-SITE MATERIALS ARE DEEMED NECESSARY BY THE OWNER, ARCHITECT, ENGINEER OR AUTHORITY HAVING JURISDICTION. TRENCHING AND BACKFILLING FOR ELECTRICAL AND TELEPHONE UTILITY SERVICES TO THE BUILDING SHALL BE PROVIDED BY THE CONTRACTOR.

DRAWINGS:

THE DRAWINGS INDICATE GENERAL LAYOUT OR ARRANGEMENT AND LOCATIONS OF ELECTRICAL WORK ONLY. DATA PRESENTED ON THESE DRAWINGS ARE AS ACCURATE AS THE ENGINEER CAN DETERMINE. FIELD VERIFICATION IS REQUIRED OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC. TO SUIT FIELD REVIEW ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER TRADES' DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS OF THE EXISTING FACILITIES AND CONDITIONS. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS, UNLESS OTHERWISE CLARIFIED BY THE ARCHITECT OR THE AUTHORITY HAVING JURISDICTION. DISCREPANCIES BETWEEN DIFFERENT PLANS, OR BETWEEN DRAWINGS AND SPECIFICATIONS, OR REGULATIONS AND CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING BEFORE THE DATE OF BID OPENING. IF DISCREPANCIES ARE NOT REPORTED, THE CONTRACTOR SHALL BID THE GREATER QUANTITY OR THE BETTER QUALITY, AND APPROPRIATE ADJUSTMENTS WILL BE MADE AFTER CONTRACT AWARD. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD MEASURE AND CONFIRM MOUNTING HEIGHTS AND LOCATIONS OF ELECTRICAL EQUIPMENT WITH RESPECT TO COUNTERS, RADIATION, ETC. DO NOT SCALE DISTANCE OFF THE ELECTRICAL DRAWINGS. USE ACTUAL BUILDING DIMENSIONS. SEE GENERAL SPECIFICATION NOTES AND CAUTION TO THE CONTRACTOR.

EXCAVATION, CUTTING AND FITTING:

PERFORM THE CUTTING, FITTING, REPAIRING, AND FINISHING OF THE WORK NECESSARY FOR THE INSTALLATION OF THE EQUIPMENT OF THIS SECTION. HOWEVER, NO CUTTING OF WORK BY OTHER TRADES OR OF ANY STRUCTURAL MEMBER SHALL BE DONE WITHOUT THE CONSENT OF THE ARCHITECT OR THE AUTHORITY HAVING JURISDICTION.

COORDINATION AND COOPERATION WITH OTHER CONTRACTORS:

COORDINATE AND COOPERATE WITH THE OTHER CONTRACTORS SO THAT ELECTRICAL OUTLETS, CONDUITS, BOXES AND EQUIPMENT SHALL BE SAFELY AND PROPERLY INSTALLED. ALL CONDUIT, FIXTURE AND OTHER EQUIPMENT LOCATIONS SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH PIPING OR OTHER OBSTRUCTIONS.

COORDINATE THE LOCATIONS OF TRENCHES AND CONDUITS FOR ELECTRICAL UTILITY SERVICES WITH THE GENERAL CONTRACTOR.

MATERIALS:

ALL MATERIALS SHALL BE NEW AND EQUAL TO THE QUALITY SPECIFIED IN THE PLANS OR SPECIFICATIONS, AND MUST CARRY THE UNDERWRITERS LABORATORIES APPROVAL FOR THE PURPOSE(S) FOR WHICH THEY ARE USED, IN ADDITION TO MEETING ALL REQUIREMENTS OF THE CURRENT APPLICABLE CODES AND REGULATIONS. U.L. LISTINGS OF AN ASSEMBLY SHALL BE FOR THE ENTIRE ASSEMBLY, NOT FOR THE COMPONENTS ALONE.

PANELBOARDS:

PANELBOARDS AND DISCONNECT SWITCHES SHALL BE MANUFACTURED BY GENERAL ELECTRIC, SIEMENS, SQUARE D OR CUTLER HAMMER, INTERRUPTING RATINGS SHALL BE AS SHOWN ON THE DRAWINGS. SERVICES SHALL BE RATED AT 100% THROUGHOUT TO INCLUDE BUS AND MAIN CIRCUIT BREAKER.

PROVIDE ENGRAVED NAMEPLATES ON PANELBOARDS, DISCONNECT SWITCHES, ETC., INDICATING EQUIPMENT DESIGNATION (OR DESIGNATION OF EQUIPMENT BEING SERVED) AND VOLTAGE.

PANEL DIRECTORIES SHALL BE REMOVABLE, TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.

DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE.

CIRCUIT BREAKERS SHALL BE FULL SIZE. FOR COMMERCIAL INSTALLATIONS, CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE HALF SIZE CIRCUIT BREAKERS ARE NOT ACCEPTABLE.

WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 75 DEGREE C.

WIRE AND CABLE:

UNLESS NOTED OTHERWISE, ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER, 600V, 75 DEGREE C, TYPE THW, THWN, THHN, OR XHHW, FOR GENERAL USE. ALL INSULATION SHALL BE COLOR CODED PER THE NEC TO PROVIDE PHASE IDENTIFICATION. THE MINIMUM WIRE SIZE SHALL BE NO. 12 AWG. FOR BRANCH CIRCUITS WITH LENGTHS EXCEEDING 100 FEET FROM THE PANEL TO THE CENTER OF THE LOAD, CONDUCTORS SHALL NOT BE SMALLER THAN NO. 10 AWG. ALL CONDUCTORS LARGER THAN NO. 10 AWG SHALL BE STRANDED.

NO WIRES SHALL BE INSTALLED IN THE CONDUIT SYSTEM UNTIL THE CONDUIT SYSTEM IS COMPLETE. USE MINERALAC #100 OR EQUIVALENT AS LUBRICANT TO FACILITATE INSTALLATION OF CONDUCTORS IN THE CONDUIT SYSTEM. CONTRACTOR MAY USE MC CABLE OR NON-METALLIC CABLE PROVIDED THAT MATERIALS AND INSTALLATION ARE IN COMPLIANCE WITH ALL APPLICABLE CODES AND ARE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

CONDUITS:

ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METALLIC CONDUIT (IMC) AND MC CABLE MAY BE USED IN ALL INTERIOR AREAS. ELECTRICAL METALLIC TUBING (EMT) SHALL NOT BE USED IN DIRECT CONTACT WITH THE EARTH, IN CONCRETE SLABS, IN CONCRETE WALLS OR AREAS THAT ARE SUBJECT TO PHYSICAL DAMAGE. ALL HOMERUNS SHALL BE OF EMT, IMC, RGS OR MC CABLE. FLEXIBLE STEEL CONDUITS SHALL BE USED FOR INDOOR FINAL CONNECTIONS TO ALL MECHANICAL EQUIPMENT NOT TO EXCEED THREE FEET AND RECESSED REMOVABLE FLUORESCENT LIGHT FIXTURES NOT TO EXCEED SIX FEET. PROVIDE LIQUID-TIGHT FLEXIBLE CONDUIT ON ALL WEATHER EXPOSED INSTALLATIONS. RACEWAYS UNDER SLAB-ON-GRADE SHALL BE SCHEDULE 40 PVC. TRANSITIONS FROM BELOW TO ABOVE GRADE SHALL BE MADE WITH RGS ELBOWS WITH POLYETHYLENE TAPE, SPIRAL WRAPPED, AT LEAST 1/2" OVERLAP, WRAPPED TO PROVIDE DOUBLE THICKNESS. NO EXCEPTIONS.

WHERE CONDUIT RACEWAYS ENTER OUTLET BOXES, JUNCTION BOXES, FIXTURES OR CABINETS, FIRMLY FASTEN IMC CONDUIT RACEWAYS WITH DOUBLE LOCKNUTS AND BUSHINGS. USE SLIP-ON FITTINGS ON EMT CONDUIT RACEWAYS. FITTING SHOULDERS SHALL SEAT FIRMLY AGAINST THE BOX OR CABINET, WITH ONE LOCKNUT ON THE INSIDE OF BOXES AND CABINETS. FIRMLY FASTEN CONDUIT TO THE BUILDING STRUCTURE.

COVER ALL METALLIC CONDUIT IN CONTACT WITH THE EARTH WITH POLYETHYLENE TAPE, SPIRAL WRAPPED, AT LEAST 1/2" OVERLAP WRAPPED TO PROVIDE DOUBLE THICKNESS. TAPE SHALL BE SCOTCH NO. 50. PVC CONDUIT AND DUCTS NOT UNDER BUILDINGS SHALL BE RUN A MINIMUM OF 18" BELOW GRADE, UNLESS OTHERWISE INDICATED, WITH THE EXCEPTION THAT CONDUIT BENDS LARGER THAN 1" IN DIAMETER SHALL BE MADE WITH GALVANIZED STEEL CONDUIT TREATED AS NOTED ABOVE.

ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.

SAFETY SWITCHES:

UNLESS OTHERWISE INDICATED ON THE DRAWINGS, SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE, 600 OR 250-VOLT, WITH THE NUMBER OF POLES REQUIRED. THE SWITCH SHALL BE AS REQUIRED BY CODE AND AS INDICATED ON THE DRAWINGS. WHEN LOCATED OUTSIDE THE BUILDING, THE SWITCHES SHALL BE NEMA 3R. ALL SWITCHES SHALL BE LOCKABLE.

FUSES:

FUSES SHALL BE OF THE SIZE AND RATING INDICATED ON THE DRAWINGS. ALL FUSES SHALL BE AS MANUFACTURED BY COOPER BUSSMAN, LITTLEFUSE OR BY GOULD SHAWMUT. VERIFY FUSE AND SWITCH REQUIREMENTS FOR THE ACTUAL EQUIPMENT BEING SUPPLIED.

PROVIDE DYMO-TAPE TAG INSIDE COVER OF EACH FUSIBLE SWITCH, INDICATED SIZE AND TYPE OF FUSES PROVIDED.

GUARANTEE:

CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. ANY DEFECTS ARISING WITHIN THIS PERIOD THAT ARE THE RESULT OF MATERIALS FURNISHED AS PART OF THIS SECTION OR WORKMANSHIP PERFORMED HEREUNDER SHALL BE REPAIRED, REPLACED OR OTHERWISE MADE GOOD TO THE OWNER'S SATISFACTION IN ACCORDANCE WITH ACCEPTABLE INDUSTRY STANDARDS AND PRACTICE. ALL SUCH REPAIR OR REPLACEMENT OF DEFECTIVE WORK AND/OR MATERIALS SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.

GENERAL SPECIFICATION NOTES AND CAUTION TO CONTRACTOR:

ALL DRAWINGS, SPECIFICATIONS, SCHEDULES AND OTHER RELATED DOCUMENTS ARE COMPLETE AND ACCURATE ACCORDING TO THE BEST KNOWLEDGE OF THE ENGINEER AND DESIGNER. THE CONTRACTOR SHALL VERIFY THE ACTUAL EQUIPMENT TO BE INSTALLED, INCLUDING ALL ELECTRICAL REQUIREMENTS, INSTALLATION REQUIREMENTS, CLEARANCES, ETC., AND SHALL COORDINATE ALL WORK WITH DRAWINGS PREPARED BY OTHERS.

PROVIDE WITH SHOP DRAWINGS SUBMITTAL 1/4" SCALE LAYOUT DRAWINGS OF ROOMS WITH ELECTRICAL SWITCHGEAR AND TRANSFORMERS. LAYOUTS SHALL SHOW LOCATIONS OF EQUIPMENTS AND SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT AND EQUIPMENT SHALL BE DRAWN TO SCALE.

VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.

VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULLBOXES, TRANSFORMER PADS, SAWCUTTING AND PATCHING, CONCRETE/PAVING, ETC. AS REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION AND PATCH TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS.

IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO VERBALLY APPROVE METHODS AND MATERIALS NOT REFLECTED HEREIN.

CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND VERIFY THAT CONDITIONS ARE AS INDICATED. CONTRACTOR SHALL INCLUDE IN HIS BID, COSTS REQUIRED TO MAKE HIS WORK MEET EXISTING CONDITIONS.

PROPOSED SUBSTITUTIONS OF ELECTRICAL EQUIPMENT OR REQUEST FOR "OR EQUAL" OR "APPROVED EQUAL" LISTING SHALL BE SUBMITTED TO ARCHITECT NOT LESS THAN TEN (10) WORKING DAYS PRIOR TO BID. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT/ENGINEER.

ALL MATERIALS SHALL BE NEW AND SIMILAR MATERIALS SHALL BE OF THE SAME MANUFACTURER.

PROVIDE PERMITS AND INSPECTIONS AS REQUIRED.

GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.

PROVIDE RECORD DRAWINGS TO THE ARCHITECT. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REROUTINGS, ETC.

SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.

PRESENT SHOP DRAWINGS SUBMITTAL DATA AT ONE TIME, BOUND IN THREE (3) RING BINDERS, INDEXED IN A NEAT AND ORDERLY MANNER. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. SUBMITTALS SHALL INCLUDE BUT NOT BE LIMITED TO: SWITCHGEAR, PANELBOARDS, WIRING DEVICES, COVER PLATES, SAFETY SWITCHES, FUSES, CONDUIT AND CONDUIT FITTINGS.

SPLICES IN EXTERIOR PULLBOXES OR MANHOLES SHALL BE MADE WATERPROOF USING 'SCOTCHCAST' SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS WITH 'DUCTSEAL' OR APPROVED EQUAL.

ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A #12 PULLWIRE OR EQUAL AND SHALL BE IDENTIFIED AT ALL JUNCTION, PULL AND TERMINATION POINTS, USING PERMANENT METALLIC TAGS. TAGS SHALL INDICATE INTENDED USE FOR CONDUIT, ORIGINATION AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.

INSTALLATION OF CONDUITS SHALL BE ROUTED CONCEALED WHERE POSSIBLE.

ALL WIRING SHALL BE INSTALLED IN METALLIC RACEWAYS. RACEWAYS IN SLAB-ON-GRADE OR BELOW GRADE SHALL BE SCHEDULE 40 PVC.

EMT FITTINGS SHALL BE SLIP-ON TYPE.

NON-METALLIC AND FLEXIBLE METAL CONDUITS SHALL HAVE A CODE SIZED COPPER GROUNDING CONDUCTOR. INCREASE CONDUIT SIZE AS REQUIRED. FLEXIBLE METAL CONDUIT SHALL NOT EXCEED 6 FEET IN LENGTH.

ALL BELOW GRADE CONDUITS SHALL BE WATERTIGHT/SEALED TO PREVENT LEAKING.

ALL UNDERGROUND SERVICE CONDUITS SHALL BE SEALED AS PER NEC 230.8.

SHEET INDEX

SHEET NO.	SHEET TITLE	DATE	REVISIONS							
			1	2	3	4	5	6	7	8
E0	ELECTRICAL SPECS, SYMBOL LIST, SHEET INDEX AND VICINITY MAP	SS	△	△	△	△	△	△	△	△
E1	SITE ELECTRICAL PLAN AND HISTORICAL SIGN PHOTOS									
E2	SINGLE LINE DIAGRAMS AND PANEL SCHEDULES									

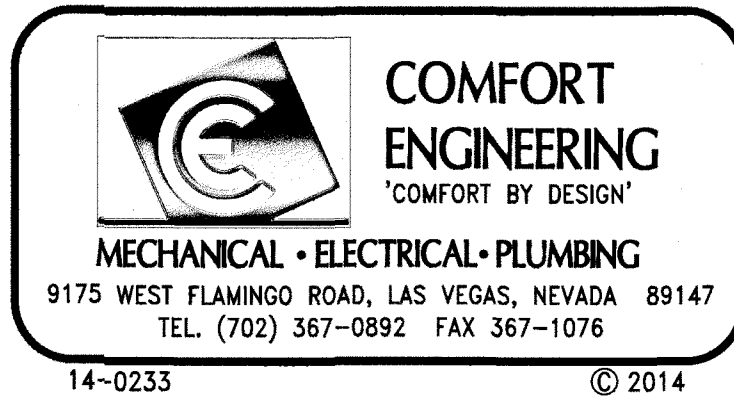
SYMBOL LIST (NOT ALL SYMBOLS ARE USED)

	AUXILIARY SYSTEM TERMINAL CABINET		FUSED DISCONNECT SWITCH - SIZE AS INDICATED
	SWITCHBOARD, MOTOR CONTROL CENTER OR DISTRIBUTION BOARD		NON-FUSED DISCONNECT SWITCH - SIZE AS INDICATED
	120/208V, 3 PHASE, 4 WIRE PANELBOARD		PHOTOCELL
	277/480V, 3 PHASE, 4 WIRE PANELBOARD		CONC PULLBOX WITH STEEL HEAVY DUTY TRAFFIC COVER
	JUNCTION BOX		CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING
	TRANSFORMER		CONDUIT RUN BELOW FLOOR OR GRADE
	TIME SWITCH		HOMERUN TO PANEL P1, CIRCUITS 1,3
	SERVICE PEDESTAL		HOMERUN BELOW FLOOR OR GRADE TO PANEL P1, CIRCUITS 1,3

ABBREVIATIONS

A	AMPERE	HID	HIGH INTENSITY DISCHARGE	REC	RECEPTACLE
AC	ALTERNATING CURRENT	HOA	HAND-OFF-AUTOMATIC	RMS	ROOT MEAN SQUARE
A/C	AIR CONDITIONING	HP	HORSEPOWER		
ADA	AMERICAN DISABILITIES ACT	HPS	HIGH PRESSURE SODIUM	SHT	SHEET
AFF	ABOVE FINISHED FLOOR	HVAC	HEATING, VENTILATING, A/C	SPCS	SPECIFICATIONS
AFG	ABOVE FINISHED GRADE	HZ	HERTZ - CYCLES PER SECOND	SPST	SINGLE POLE SINGLE THROW
AMP	AMPERES, AMPERAGE			STA	STATION
AWG	AMERICAN WIRE GAUGE	IMC	INTERMEDIATE METAL CONDUIT	TC	TIME CLOCK
				TYP	TYPICAL
BC	BARE COPPER	J-BOX	JUNCTION BOX	UG	UNDERGROUND
				UON	UNLESS OTHERWISE NOTED
C	CONDUIT	LC	LIGHTING CONTACTOR	V	VOLTAGE, VOLTS
CB	CIRCUIT BREAKER	LTG	LIGHTING	VAC	VOLTS ALTERNATING CURRENT
CO	CONDUIT ONLY	MAX	MAXIMUM	VFD	VARIABLE FREQUENCY DRIVE
COMM	COMMUNICATIONS	MCC	MOTOR CONTROL CENTER		
CU	COPPER	MCB	MAIN CONTROL BOARD		
		MCP	MOTOR CIRCUIT PROTECTOR		
DPDT	DOUBLE POLE DOUBLE THROW	MIN	MINIMUM	W	WATTS, WIRE
DWG	DRAWING	MLO	MAIN LUGS ONLY	WP	WEATHERPROOF
EC	ELECTRICAL CONTRACTOR	NC	NORMALLY CLOSED	XFMR	TRANSFORMER
EF	EXHAUST FAN	NEC	NATIONAL ELECTRICAL CODE		
EM	EMERGENCY	NL	NIGHT LIGHT	2#10	2 CONDUCTORS AT #10 AWG
EMT	ELECTRICAL METALLIC TUBING	NO	NORMALLY OPEN	3/C	3 CONDUCTORS PER CABLE
EHU	ELECTRIC HEATING UNIT	NPCO	NEVADA POWER COMPANY	(4)4"C	4 EACH 4 INCH CONDUITS
EW	ELECTRIC WATER COOLER	NIC	NOT IN CONTRACT	+18"	MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICE ABOVE FINISH FLOOR OR FINISH GRADE. VERIFY EXACT MOUNTING HEIGHTS PER ADA REQUIREMENTS.
FLA	FULL LOAD AMPERES (NAMEPLATE) FURNISHED BY OTHERS	OC	ON CENTER		
FBO	FULL LOAD CURRENT (NEC) FLUORESCENT	PB	PUSH BUTTON		
FLC	FULL LOAD CURRENT (NEC) FLUORESCENT	PC	PHOTOCELL		
FLUOR	FULL LOAD CURRENT (NEC) FLUORESCENT	PH, Ø	PHASE		
GFI	GROUND FAULT INTERRUPTER	PNL	PANEL		
GRND	GROUND	PVC	POLYVINYL CHLORIDE		

VICINITY MAP



14-0233 © 2014

APPROVED FOR CONSTRUCTION

DATE: 3/14/18 PROJECT# 123668

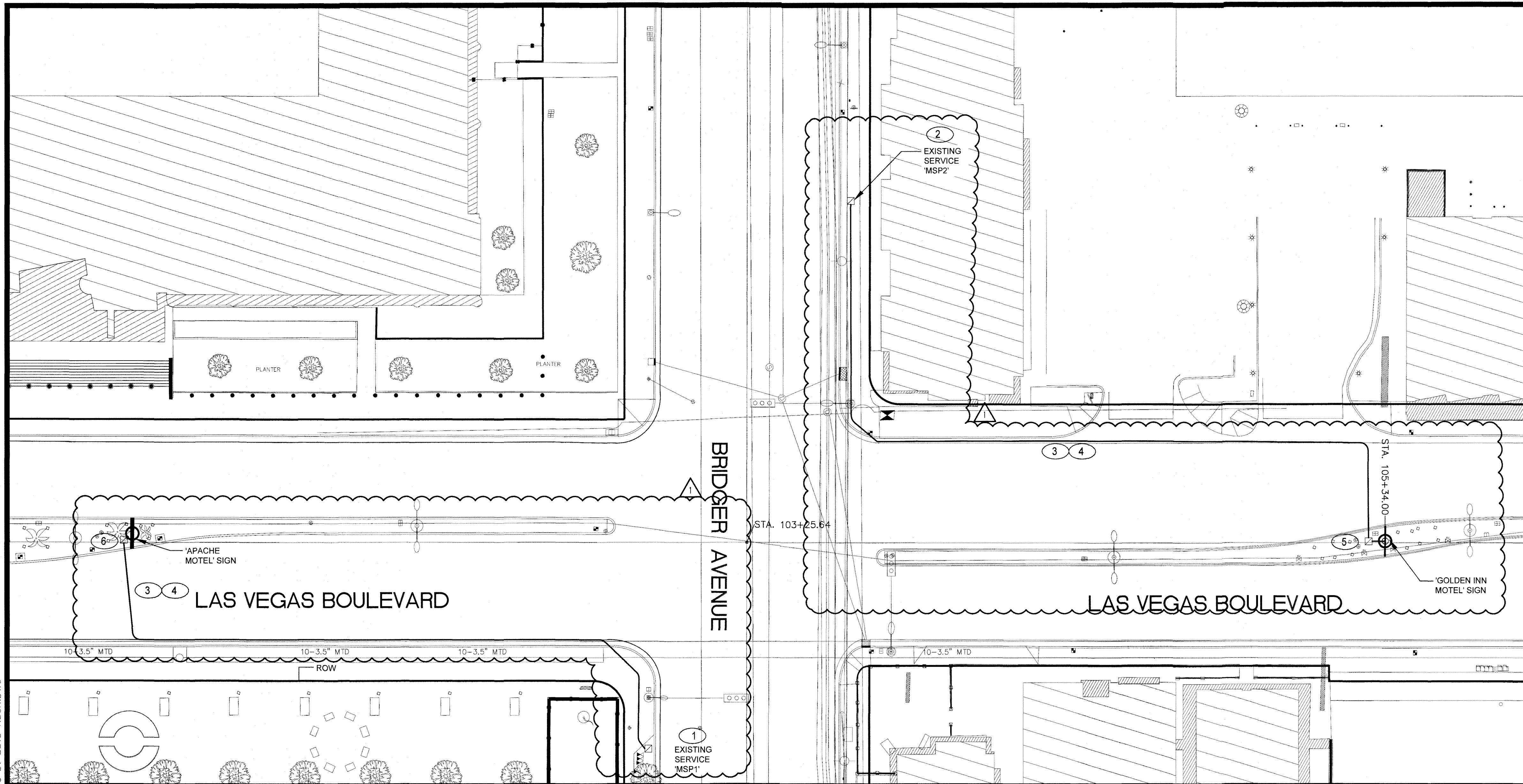
1st Approved 8/3/15

FEDERAL PROJECT NO. 88-0003(184)

PREPARED BY	BID# 18-42371	DESIGNED BY: WHA	DRAWN BY: WIP	CHECKED BY: DM
H# 42371	DATE: JUNE 2015	SUBMITTAL STAGE: FINAL		
CITY OF LAS VEGAS				
LAS VEGAS BOULEVARD				
NEON SIGNS, PHASE 3				
ELECTRICAL SPECS, SYMBOL LIST, SHEET INDEX AND VICINITY MAP				
TITLE SHEET				
PROFESSIONAL ENGINEER - STATE OF NEVADA				
RONALD D. BOHNE				
Exp. 12-31-15				
ELECTRICAL				
Professional No. 19448				
3/8/18				
E0				
5 of 7				
DRAWING NO. 107V4819-3				

PROJ.#:123668 AGR:115473 QS:135-34-NE

3/8/18 \\CEILLOCAL\DFS\CAD\AC\TDC14\CLV\14-0233 LV BLVD NEON SIGN PHASE 3\ELEC\14-0233 LV BLVD NEON.DWG

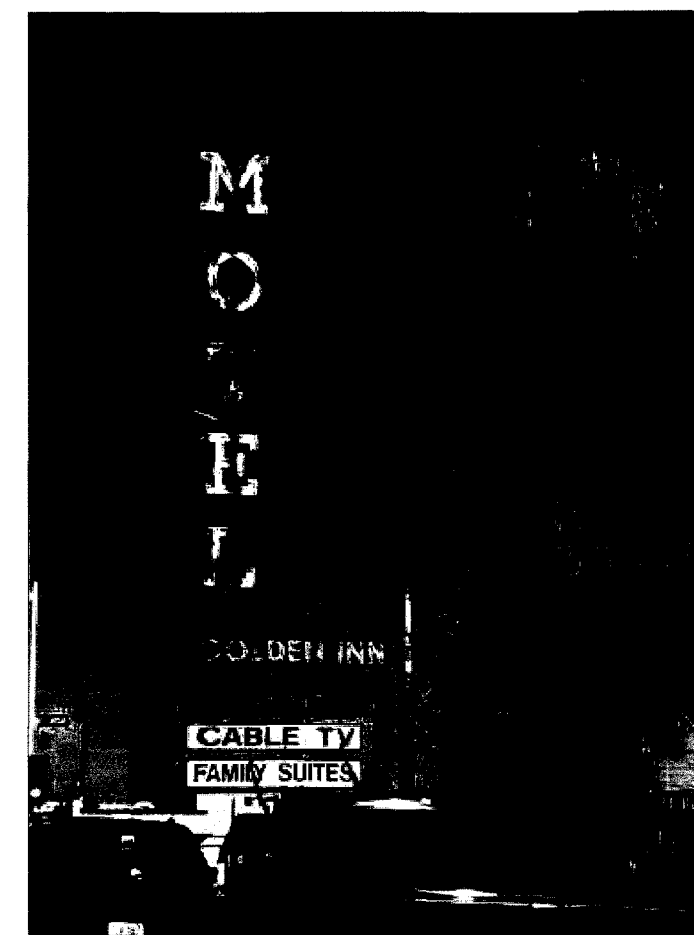
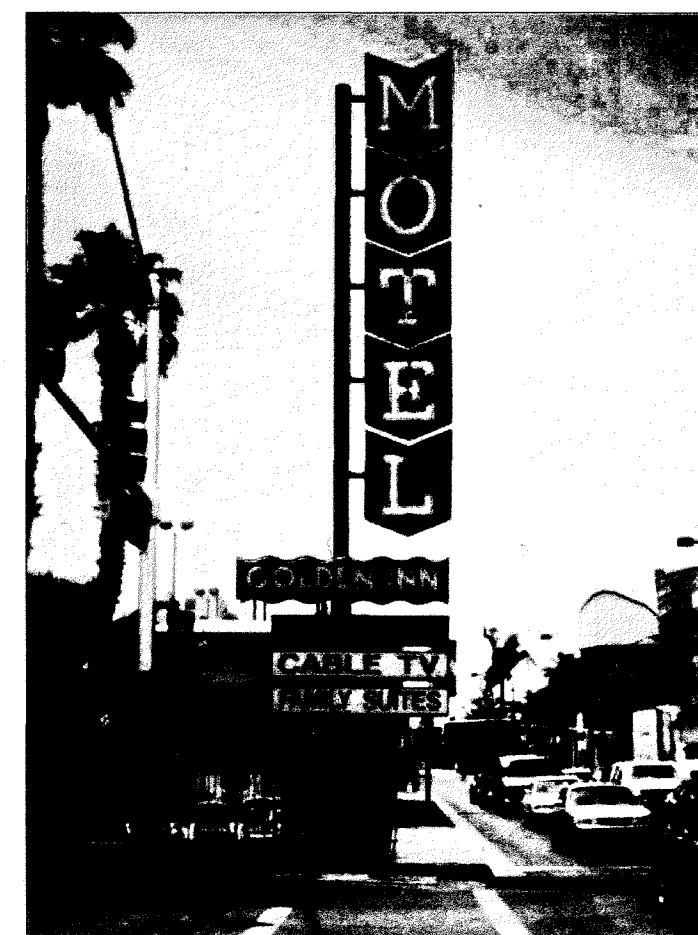


ELECTRICAL SITE PLAN

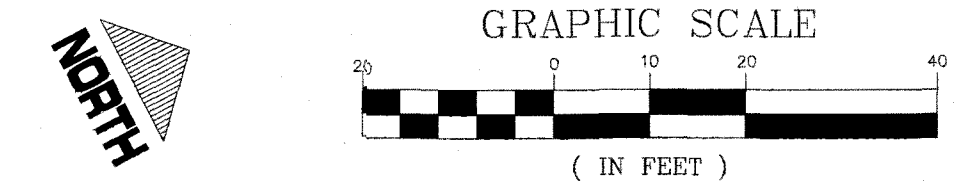
SCALE: 1" = 20'-0"



HISTORICAL PHOTOS OF "APACHE MOTEL" SIGN



HISTORICAL PHOTOS OF "GOLDEN INN MOTEL" SIGN



CALL BEFORE CONSTRUCTION

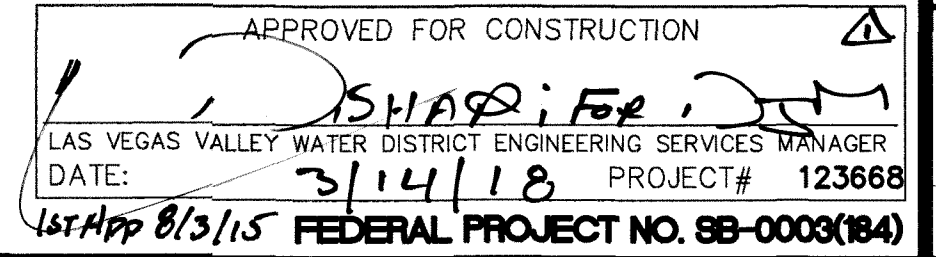
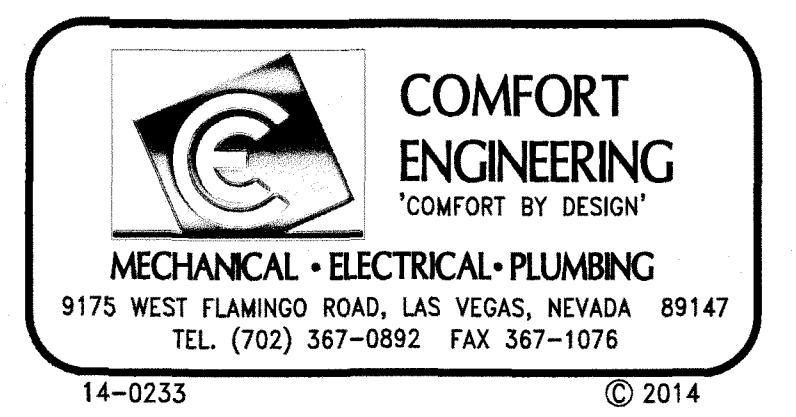
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2829

KEYED PLAN NOTES

- EXISTING SERVICE "MSP1" PER NV ENERGY DRAWINGS LOCATED AT 505 E BRIDGER, 60 AMP, 120/240V, SINGLE PHASE, 3 WIRE MINIMUM.
- EXISTING SERVICE "MSP2" PER NV ENERGY DRAWINGS LOCATED AT 420 E BRIDGER AVE. 60 AMP, 120/240V, SINGLE PHASE, 3 WIRE MINIMUM.
- SEE SINGLE LINE DIAGRAM ON PAGE E2 FOR CONDUIT AND FEEDER SIZE. EXACT QUANTITY OF CONDUITS MUST BE VERIFIED WITH SIGNAGE REQUIREMENT PRIOR TO BIDDING AND INSTALLATION.
- MAINTAIN A MINIMUM 3' PARALLEL SEPARATION WITH WATER FACILITIES. MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING WITH WATER FACILITIES.
- PANEL "P1" LOCATED ON OR WITHIN 12' OF SIGN.
- PANEL "P2" LOCATED ON OR WITHIN 12' OF SIGN.

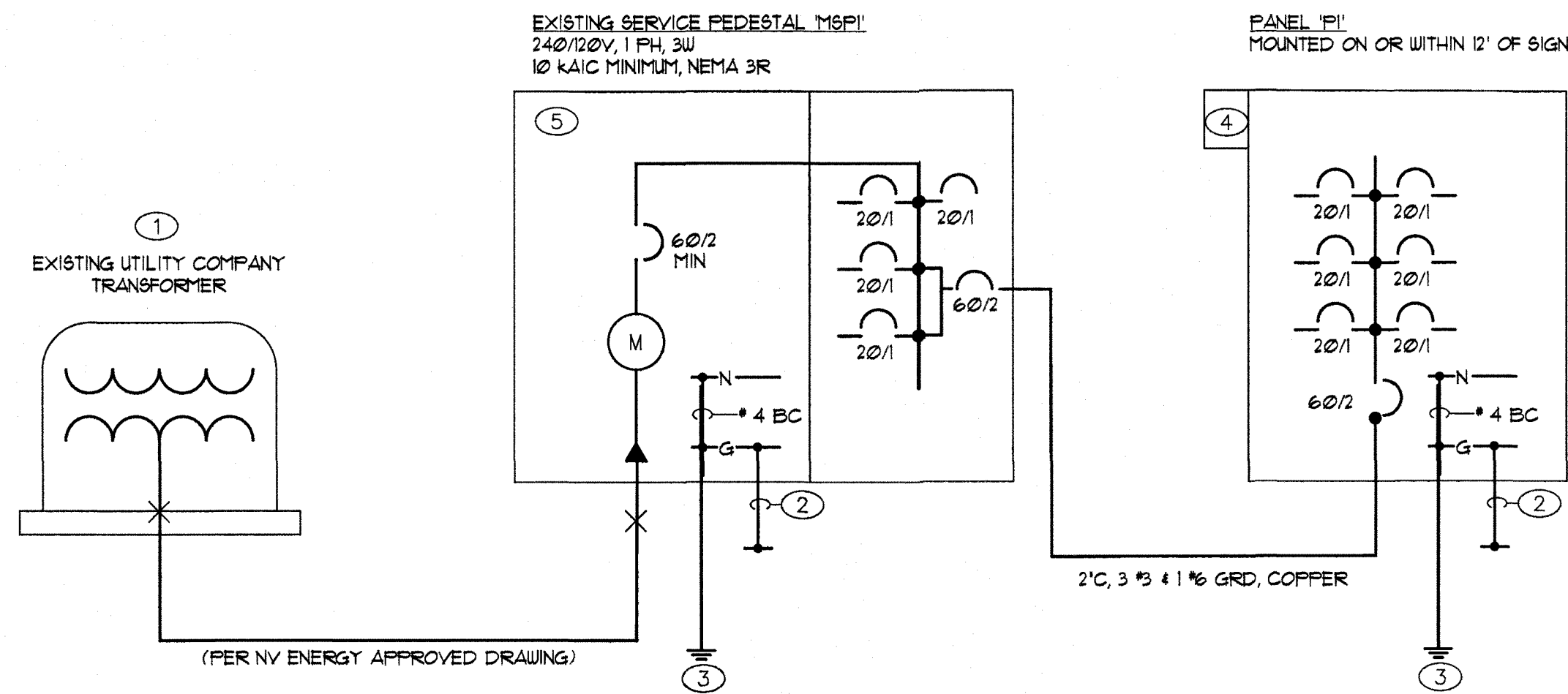
GENERAL NOTES

- ALL WIRING SHALL BE IN APPROVED RACEWAY.
- WIRE SIZE SHALL BE MINIMUM #12 AWG, THWN SOLID COPPER UNLESS OTHERWISE NOTED. PROVIDE GROUND WIRE WHERE REQUIRED BY CODE. INCREASE WIRE SIZE TO COMPENSATE FOR VOLTAGE DROP WHERE TOTAL LENGTH OF ANY BRANCH EXCEEDS 100 FEET.
- WIRE SIZE SHALL NOT BE LESS THAN CORRESPONDING CIRCUIT BREAKER RATING AS REQUIRED BY CODE.
- MAXIMUM NUMBER OF UNGROUNDED WIRES IN ANY CONDUIT SHALL BE THREE. ADDITIONAL WIRES ARE ACCEPTABLE IF WIRE SIZE IS INCREASED TO ALLOW FOR DERATING PER CODE. PROVIDE ADDITIONAL WIRES FOR SWITCHING AS REQUIRED.
- ALL CONDUIT SHALL BE INSTALLED WITHIN ROW ONLY.
- UTILITY COMPANY CONDUITS & ROUTING SHOWN FOR BIDDING PURPOSES ONLY. ACTUAL LOCATION SIZE & ROUTING SHALL BE DETERMINED BY THE UTILITY COMPANY AND APPROVED BY OWNER. CONTACT UTILITY COMPANY FOR COORDINATION & INSTALLATION REQUIREMENTS.
- SIGN INSTALLATIONS SHALL COMPLY WITH ARTICLE 600 OF THE NATIONAL ELECTRIC CODE.
- SAWCUT EXISTING CONCRETE AND/OR ASPHALT ROADWAY TO ACCOMMODATE NEW WORK AS REQUIRED. PATCH TO MATCH EXISTING.



1	MARCH 2018	REVISIONS PER NVE COORDINATION	NO. DATE	REVISIONS
PREPARED BY: CITY OF LAS VEGAS				
DESIGNED BY: MHA				
DRAWN BY: WIP				
CHECKED BY: DM				
SUBMITTAL STAGE: FINAL				
TITLE: LAS VEGAS BOULEVARD NEON SIGNS, PHASE 3				
SHEET: E1				
DRAWING NO. 107V4819-3				
PROJECT# 123668				
FEDERAL PROJECT NO. 98-0003(184)				

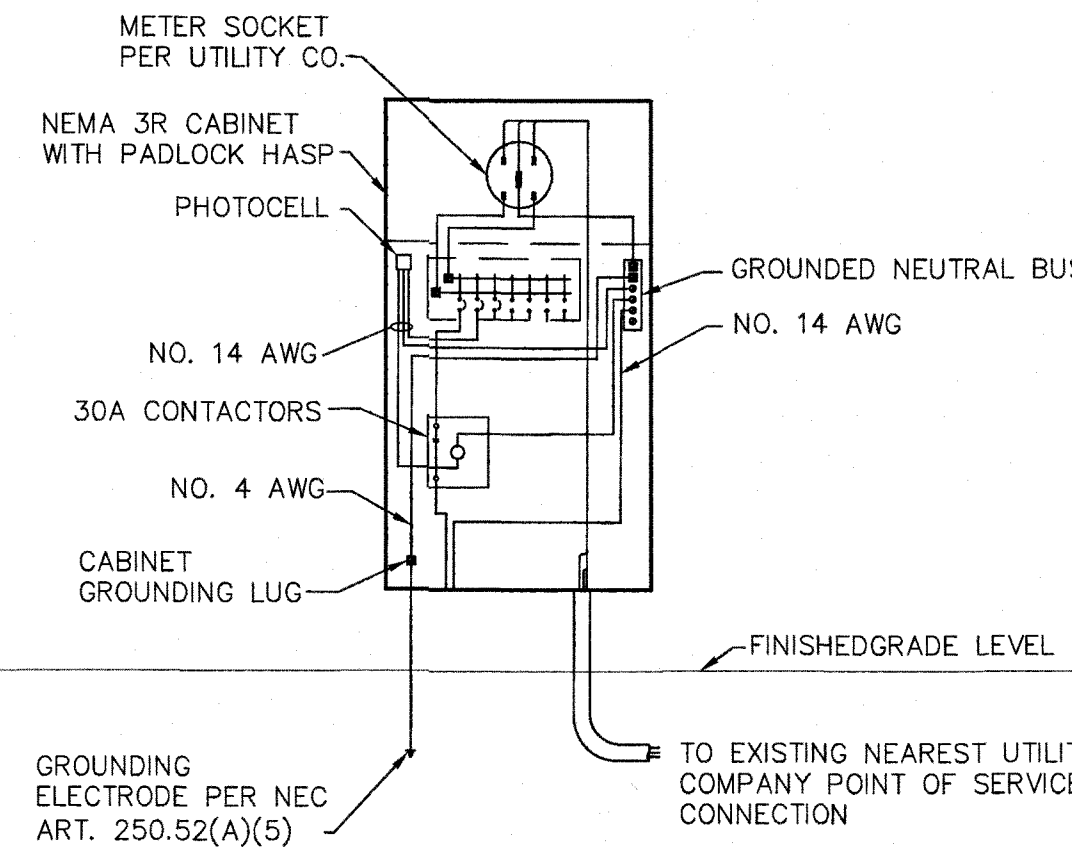
PANEL 'P1' APACHE MOTEL				SERVICE ENTRANCE		SLIP-ON CIRCUIT BREAKERS					
VOLTS:		240/120		METER		BOLT-ON CIRCUIT BREAKERS					
PANEL AMP RATING:		100		NEMA 1		ALUMINUM BUS					
MAIN BREAKER AMP RATING:		60		X NEMA 3R		X COPPER BUS					
MINIMUM KAIC:		10		X SURFACE MOUNT							
PHASE:		1									
WIRE:		3		X HINGE DOOR							
NEUTRAL:		FULL SIZE		DOOR IN DOOR		PANEL LOCATION					
GROUND:		CU-SOLID		X LATCH/LOCK DOOR		SEE FLOOR PLAN					
CKT NO.	CIRCUIT DESCRIPTION	BKR SIZE	LOAD TYPE	LOADS (VA)		A	B	LOAD TYPE	BKR SIZE	CIRCUIT DESCRIPTION	CKT NO.
1	SIGN	20/1	L	1500	1500	1500	1500	20/1	SPARE		2
3	SIGN	20/1	L	1500	1500	1500	1500	20/1	SPARE		4
5	SPARE	20/1				1500	1500	20/1	SPARE		6
7	SPARE	20/1		1500	1500	1500	1500	20/1	SPARE		8
9	SPARE			1500	1500	1500	1500		SPARE		10
11	SPARE			1500	1500	1500	1500		SPARE		12
13	SPARE			1500	1500	1500	1500		SPARE		14
15	SPARE			1500	1500	1500	1500		SPARE		16
17	SPARE			1500	1500	1500	1500		SPARE		18
19	SPARE			1500	1500	1500	1500		SPARE		20
21	SPARE			1500	1500	1500	1500		SPARE		22
23	SPARE			1500	1500	1500	1500		SPARE		24
25	SPARE			1500	1500	1500	1500		SPARE		26
27	SPARE			1500	1500	1500	1500		SPARE		28
29	SPARE			1500	1500	1500	1500		SPARE		30
TOTAL LOAD PER PHASE				1500	1500	0	0	TOTAL PANEL DEMAND AMPS = 16			
TOTAL PANEL LOAD (W/O DEMAND)				3000	3000	100%	BALANCE				
TOTAL PANEL LOAD (W/ DEMAND)				3750	3750						
ABBREVIATIONS:											
F=FIXED EQUIPMENT, L=LIGHTING LOAD, M=MOTOR LOAD, ML=LARGEST MOTOR LOAD, R=RECEPTACLE LOAD											
SPECIAL PROVISIONS:											
CONTRACTOR TO VERIFY EXACT QUANTITY OF CIRCUITS WITH SIGN MANUFACTURE AND LABEL PANEL ACCORDINGLY											



SINGLE LINE DIAGRAM - 'MSP1'
NOT TO SCALE

SINGLE LINE DIAGRAM NOTES:

- EXISTING UTILITY COMPANY TRANSFORMER.
- 3/4"X#4 BARE COPPER. SYSTEM SHALL BE GROUNDED TO OTHER METAL PIPING IN ACCORDANCE WITH NEC 250.104(B).
- PROVIDE CONCRETE ENCASED GROUNDING ELECTRODE CONSISTING OF MIN 20' OF #4 BARE COPPER OR 1/2" REBAR INSTALLED PER NEC 250.52(A)(3).
- PHOTOCELL TO TURN ON ALL SIGN CIRCUITS. PROVIDE CONTACTORS AS REQUIRED FOR CONTROL OF ALL SIGN CIRCUITS.
- 0 KVA OF USAGE PER NV ENERGY METER READINGS. USE SPARE CIRCUITS TO CONNECT TO PANEL P1.
- 1 KVA OF USAGE PER NV ENERGY METER READINGS. USE SPARE CIRCUITS TO CONNECT TO PANEL P2.

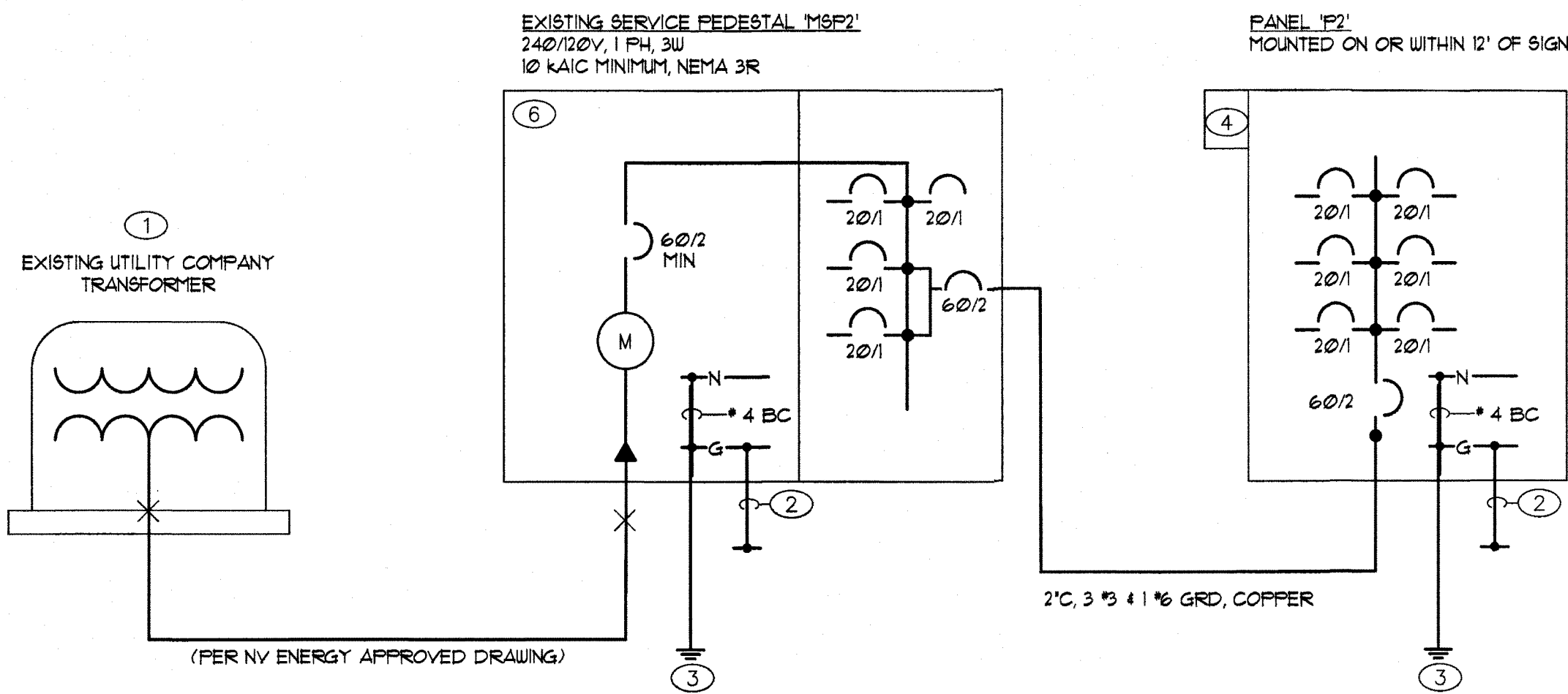


- NOTES:
- PHOTOCELL TO TURN ON ALL SIGN CIRCUITS. PROVIDE CONTACTORS AS REQUIRED FOR CONTROL OF ALL SIGN CIRCUITS.
 - ALL CONDUCTORS AND BUSSING TO BE COPPER, EXCEPT CONDUCTORS PROVIDED BY UTILITY COMPANY.
 - INSTALL PER CLARK COUNTY STANDARD DRAWINGS 726 & 730.
 - TRANSFORMER TO SERVICE PEDESTAL DISTANCES GREATER THAN 195' FOR SPECIFIED COPPER CONDUCTORS, OR 190' FOR SPECIFIED ALUMINUM CONDUCTORS, MUST BE APPROVED BY ENGINEER.

TYPICAL UNISTRUT MOUNTED
SERVICE PEDESTAL DETAIL

1
E2

PANEL 'P2' GOLDEN INN MOTEL				SERVICE ENTRANCE		METER		SLIP-ON CIRCUIT BREAKERS			
VOLTS:		240/120						BOLT-ON CIRCUIT BREAKERS			
PANEL AMP RATING:		100						ALUMINUM BUS			
MAIN BREAKER AMP RATING:		60		X				X COPPER BUS			
MINIMUM KAIC:		10		X							
PHASE:		1									
WIRE:		3		X							
NEUTRAL:		FULL SIZE						PANEL LOCATION			
GROUND:		CU-SOLID		X		LATCH/LOCK DOOR		SEE FLOOR PLAN			
CKT NO.	CIRCUIT DESCRIPTION	BKR SIZE	LOAD TYPE	LOADS (VA)		LOADS (VA)		LOAD TYPE	BKR SIZE	CIRCUIT DESCRIPTION	CKT NO.
				A	B	A	B				
1	SIGN	20/1	L	1500	1500	1500	1500	20/1	SPARE		2
3	SIGN	20/1	L	1500	1500	1500	1500	20/1	SPARE		4
5	SPARE	20/1	L	1500	1500	1500	1500	20/1	SPARE		6
7	SPARE	20/1	L	1500	1500	1500	1500	20/1	SPARE		8
9	SPARE			1500	1500	1500	1500		SPARE		10
11	SPARE			1500	1500	1500	1500		SPARE		12
13	SPARE			1500	1500	1500	1500		SPARE		14
15	SPARE			1500	1500	1500	1500		SPARE		16
17	SPARE			1500	1500	1500	1500		SPARE		18
19	SPARE			1500	1500	1500	1500		SPARE		20
21	SPARE			1500	1500	1500	1500		SPARE		22
23	SPARE			1500	1500	1500	1500		SPARE		24
25	SPARE			1500	1500	1500	1500		SPARE		26
27	SPARE			1500	1500	1500	1500		SPARE		28
29	SPARE			1500	1500	1500	1500		SPARE		30
TOTAL LOAD PER PHASE				1500	1500	0	0	TOTAL PANEL DEMAND AMPS = 16			
TOTAL PANEL LOAD (W/O DEMAND)				3000		100% BALANCE					
TOTAL PANEL LOAD (W/ DEMAND)				3750							
ABBREVIATIONS:											
F=FIXED EQUIPMENT, L=LIGHTING LOAD, M=MOTOR LOAD, ML=LARGEST MOTOR LOAD, R=RECEPTACLE LOAD											
SPECIAL PROVISIONS:											
CONTRACTOR TO VERIFY EXACT QUANTITY OF CIRCUITS WITH SIGN MANUFACTURE AND LABEL PANEL ACCORDINGLY											



SINGLE LINE DIAGRAM - 'MSP2'
NOT TO SCALE

COMFORT ENGINEERING
COMFORT BY DESIGN
MECHANICAL • ELECTRICAL • PLUMBING
9175 WEST FLAMINGO ROAD, LAS VEGAS, NEVADA 89147
TEL. (702) 367-0892 FAX 367-1076
14-0233 © 2014

REVISIONS PER NVE COORDINATION

NO.	DATE	REVISIONS
1	MARCH 2018	

PREPARED BY: [Signature]
DESIGNED BY: MHA
DRAWN BY: WIP
CHECKED BY: DM

CITY OF LAS VEGAS
LAS VEGAS BOULEVARD
NEON SIGNS, PHASE 3

SINGLE LINE DIAGRAMS
AND PANEL SCHEDULES

E2
7 of 7
DRAWING NO.
107v4819-3

FEDERAL PROJECT NO. 88-0003(184)