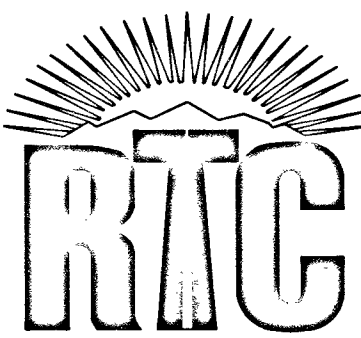


LEGEND	
	CENTERLINE
	EASEMENT LINE
	EXISTING RIGHT-OF-WAY LINE
	EXISTING TELEPHONE LINE
	EXISTING CABLE TV LINE
	EXISTING STORM DRAIN LINE
	EXISTING UNDERGROUND POWER LINE
	EXISTING OVERHEAD POWER LINE
	EXISTING SANITARY SEWER LINE
	EXISTING GAS LINE
	EXISTING OVERHEAD POWER LINE AND TELEPHONE
	EXISTING NVE TRANSFORMER
	EXISTING 200 AMP PADMOUNTED SERVICE PEDESTAL
	EXISTING POWER POLE
	EXISTING CABLE TV PULL BOX
	EXISTING TELEPHONE PULL BOX
	EXISTING TRAFFIC SIGNAL CONDUIT

ABBREVIATIONS			
AVAR	AIR VACUUM AIR RELIEF VALVE	SL	STREET LIGHT
AVE	AVENUE	SNWA	SOUTHERN NEVADA WATER AUTHORITY
BC	BACK OF CURB	SS	SANITARY SEWER
BLVD	BOULEVARD	STA	STATION
BSW	BACK OF SIDEWALK	STD	STANDARD
CATV	UNDERGROUND CABLE TV	ST	STREET
CCPW	CLARK COUNTY PUBLIC WORKS	STL	STEEL
CCTV	CLOSED CIRCUIT TELEVISION	SV	SPLICE VAULT
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT	SW	SOUTHWEST/SIDEWALK
CDCA	COMMUNICATION DISTRIBUTION CABLE ASSEMBLY	TEL	TELEPHONE
CG	CURB AND GUTTER	TS	TRAFFIC SIGNAL
CL	CENTERLINE	TYP	TYPICAL
CONC	CONCRETE	USD	UNIFORM STANDARD DRAWING
DB	DIRECT BURY	USS	UNIFORM STANDARD SPECIFICATIONS
DR	DRIVE	W	WATER or WEST
DWG	DRAWING		
E	EAST	ALIGNMENT ABBREVIATIONS	
EA	EACH	"CB"	CHARLESTON BOULEVARD
ELEC	ELECTRICAL		(MONTCLAIR STREET TO COMMERCE STREET)
EP or EOP	EDGE OF PAVEMENT	"MS"	MONTCLAIR STREET
ESMT	EASEMENT		(DEL REY AVENUE TO CHARLESTON BOULEVARD)
EVP	EMERGENCY VEHICLE PRE-EMPTION		
EX	EXISTING		
FAST	FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION		
FC	FACE OF CURB		
FT	FOOT/FEET		
GPS	GLOBAL POSITIONING SYSTEM		
IC	INTERCONNECT		
ITS	INTELLIGENT TRANSPORTATION SYSTEM		
LF	LINEAR FEET		
LN	LANE		
LT	LEFT		
LVVWD	LAS VEGAS VALLEY WATER DISTRICT		
MAX	MAXIMUM		
MH	MANHOLE		
MIN	MINIMUM		
N	NORTH		
NDOT	NEVADA DEPARTMENT OF TRANSPORTATION		
NE	NORTHEAST		
NO	NUMBER		
NTS	NOT TO SCALE		
NVE	NV ENERGY		
NW	NORTHWEST		
OC	ON CENTER		
OHP	OVERHEAD POWER LINE		
PB	PULL BOX		
PKWY	PARKWAY		
PP	POWER POLE		
PR	PAIR		
PROP	PROPOSED		
PVMT	PAVEMENT		
RD	ROAD		
RDWY	ROADWAY		
RT	RIGHT		
R/W	RIGHT-OF-WAY		
S	SOUTH		
SD	STORM DRAIN		
SE	SOUTHEAST		
SHT	SHEET		

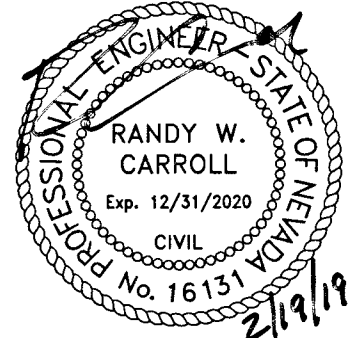
REV. NO.	DATE	DESCRIPTION	APPROVED



CHARLESTON BOULEVARD ITS INFRASTRUCTURE

INDEX OF DRAWINGS AND ABBREVIATIONS

REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA



PROJECT No: TSC1802 DRAWN BY: JAS
DESIGNED BY: JAS CHECKED BY: JSR
APPROVED BY: _____

SCALE	DRAWING NO.
HORIZ: AS SHOWN	G-2
VERT: AS SHOWN	SHT. 2 OF 15
FIELD BOOK	419-00102
	107 V 7664

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS, ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
3. CHISEL "S" OR "C" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
5. ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" "S" SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.
8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STAFFED BY A CONTRACTOR EMPLOYEE.
9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1') OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY OF LAS VEGAS. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WITH A DEFLECTION OF MORE THAN ONE TENTH (0.1') OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION.
10. INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

REVISED 06/15/10

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES. THE DEBRIS FROM THE DESTRUCTION PROJECT, SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.

2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER, HIS OR HER AGENTS, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS IF THE USER DOES NOT MEET THE PERFORMANCE STANDARD IN THE USDOCA AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.

3. PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR1000000, SECTION II.A.5.

4. THE USDOCA, THE NVR1000000, AND THE NVR1000000 SUPPLEMENTAL CONDITIONS MAY BE USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. CONTRACTORS SHALL BE RESPONSIBLE FOR THE USE OF THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO THE NVR1000000 MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR 100000, SECTION II.A.12.

5. THE USER SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALL AND MAINTAIN ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CLARK COUNTY AREA STANDARDS. ALL SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH CLARK COUNTY AREA STANDARDS. ALL SIGNS SHALL USE TYPE III SHEETING.

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTION PURPOSES, THE LVVWD INSPECTION DIVISION MUST BE NOTICED TWO (2) BUSINESS DAYS PRIOR TO THE SCHEDULED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT NUMBER IDENTIFIED ABOVE.
2. ALL WORK SHALL CONFORM TO LVVWD 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.
3. ALL WORK, EXCEPT AS SPECIFIED IN 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 IMPROVEMENTS, CLARK COUNTY AREA.
4. GROUND PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER LOCATIONS SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE LVVWD STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
9. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED, AND AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD. CONTRACTOR TO TELEPHONE LVVWD (258-7171) TO OBTAIN METER INFORMATION AND PICKUP.
10. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 314.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO THE LVVWD INSPECTION DIVISION.
11. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD APPROVED PRODUCTS LIST FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY THE LVVWD INSPECTION DIVISION.
12. TELEPHONE CALL DURING "YOU DIG" AT "B1" OR 1-800-227-2600.
13. THE INSTALLATION OF LVVWD 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 CONTRACTOR TO THE EXISTING ASPHALT PAVING STREET SURFACES SHALL BE IN ACCORDANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

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

IE:

TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

Robert Shady

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
LVVWD PROJECT NO. 136138 FIRST APPROVED DATE: 2-25

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLICWORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION; THE "SUMNER/IN UNIFORM STANDARDS" FOR WORK IN THE SUMNER 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.
2. 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'S WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION. THE CONTRACTOR 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.
3. 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 AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
8. AC PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
11. 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 THE TRANSITIONS TO BE AS SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE (COMPANY, REPORT #, DATE) APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATION.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. 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 UTILITY COMPANY AND THE CITY ENGINEER.

16. 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 BUILDING DEPARTMENT.
17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF MDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC., THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
21. 21. AFTER HAUNCHING AND PRIOR TO BACKFILL OPERATIONS WHICH COVER SOFTENED SOIL, SEWER AND STORM DRAIN FACILITIES, CONTRACTOR IS REQUIRED TO SCHEDULE CLO OPEN-TRENCH UTILITY SURVEY INSPECTION FOR DETERMINATION OF FINAL LOCATION COORDINATES. FACILITIES TO BE LOCATED BY CIV. SHALL INCLUDE AT A MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS.

OR

(MAY BE USED ONLY ON PROJECTS ASSOCIATED WITH A TENTATIVE MAP CONTAINING 5 LOTS OR MORE)

(MAY BE USED ONLY ON PROJECTS ASSOCIATED WITH A TENTATIVE MAP CONTAINING 5 LOTS OR MORE)

SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS. THE LOCATION SHALL BE PROVIDED BY COORDINATES WHICH SHALL BE BASED ON THE OFFICIAL HORIZONTAL AND VERTICAL CONTROL NETWORKS OF THE CITY OF LAS VEGAS. FINAL LOCATION MAP(S) MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIVE CERTAINITIES OF ± 0.09 METERS (± 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).

22. 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 EDITION.

23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISED 02/03/15

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATIONS 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, AND ANY ADOPTED SPECIAL AREA STANDARDS.
2. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF TRAFFIC ENGINEERING AND THE CITY ENGINEER.
3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
4. ALL STREET LIGHTING CONDUITS STUB SHALL HAVE AT LEAST ONE GREEN #8 THW WIRE INSTALLED, AS TRACER WIRE. WHEN "EMPTY" CONDUIT IS COMPLETELY INSTALLED FROM PB TO PB, IT SHALL HAVE MINIMUM OF 2 #4 OR 1 #8 THW WIRE WITH THE ENDS TAPED OR "SAFE OFF" PRIOR TO FINAL INSPECTION.
5. ANY STRUCTURE, SUCH AS ECK WALLS, CEMENT FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN ACCORDANCE WITH THE USD NO. 520A.
6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TFEF OFFICE TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
7. SERVICE POINT SHALL BE COORDINATED WITH NV ENERGY COMPANY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE CIVIL PLANS.
8. IT SHALL BE ASSUMED THAT IN THE ABSENCE OF AN EXISTING, WORKABLE CIRCUIT TO ATTACH TO, ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRCUIT.
9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREET LIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED, AT NO EXPENSE TO THE CITY OF LAS VEGAS, BEFORE STREETLIGHT BASES ARE INSTALLED.
10. THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON PLANS.
11. THE DEVELOPER/OWNER WILL BE REQUIRED TO SUPPLY POWER TO ALL NEW PUBLIC STREET LIGHTS INSTALLED UNDER THIS DESIGN PRIOR TO BOND RELEASE OR PROJECT COMPLETION. THE DEVELOPER/OWNER WILL BE RESPONSIBLE FOR ALL ITEMS ASSOCIATED WITH THE INSTALLATION, CONSTRUCTION, ENERGIZING, MAINTENANCE AND OPERATIONAL COST OF SAID STREET LIGHTS PRIOR TO PROJECT COMPLETION. REFER TO THE PLAN FOR ANY NEW SERVICE REQUIREMENTS. TRANSFERS OF OWNERSHIP FROM THE DEVELOPER/OWNER TO THE CITY OF LAS VEGAS FOR ALL NEW PUBLIC STREET LIGHTS/TYPES OF OWNERSHIP FROM THE DEVELOPER/OWNER TO THE CITY OF LAS VEGAS WILL BE IN CONJUNCTION WITH THIS PROJECT COMPLETION. COORDINATE ALL MAINTENANCE AND OPERATIONAL TRANSFERS WITH THE CITY OF LAS VEGAS TRAFFIC ENGINEERING DEPARTMENT (TEFO) AT (702) 229-6331.

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE # 6325 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S-APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
3. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. [IFC § 507.12.2]
4. ALL RESIDENTIAL FIRE HYDRANT INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER/AND SHALL BE CAPABLE OF DELIVERING 1500 PSI OF WATER FLOW. [IFC § 530.2.1]
5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. [IFC § 507.5.7.3]
6. ALL UNDERGROUND HYDRANT LOCATIONS MUST BE COVERED BY THE LOCATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES, CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. [IFC § 106.3.1]
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A. APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. [IFC § 507.2.1, NFPA 24]
8. PAINTING OF CURBS, FIRE HYDRANTS, PAVES, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE AND ALL OTHERS THAT ARE NECESSARY TO BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE FIRE PREVENTION DIVISION. [IFC § 507]
9. PRIVATE HYDRANTS SHALL BE PAINTED RED. [IFC § 507.5.1.1]
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. [IFC § 507]
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: [IFC § C102]
 - RESIDENTIAL - 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
 - COMMERCIAL - 400 FT UNSPRINKLERED; 500 FT SPRINKLERED.
12. WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT 100 FT ALONG THE WATER MAINS. WHERE TRAFFIC LANE OR ONE-WAY STREETS ARE WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. [IFC § C102.2]
13. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 10 FT OF THE CURB OR 20 FT WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB TURN, DRIVEWAY, POWER POLE OR STRUCTURE. [IFC § C102.2.1]
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO-FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. [IFC § C102.4]
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT BY AN APPROVED ROUTE. [IFC § C102.7]
17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. [IFC § C102.6]
18. TWO (2) SOURCES OF WATER ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER/END-INS ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN. [IFC § C104]
19. FIRE APPARATUS SHALL BE DESIGNED AND MAINTAINED TO PROVIDE ALL WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. [IFC § 503.2.3]
20. FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FT PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. [IFC § 503.2.7, § 503.2.8]
21. FIRE APPARATUS ACCESS ROADS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS. [IFC § 503.2.4]
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13 FT 6 IN. [IFC § 503.2.1]
23. FIRE APPARATUS ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 40 FT FLOW LINE TO FLOW LINE WITH PARALLEL PARKING PERMITTED ON BOTH SIDES, NOT LESS THAN 32 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE PARKING IS PERMITTED ONLY ON ONE SIDE OF THE FIRE LINE, NOT LESS THAN 32 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE NO PARKING IS PERMITTED ON EITHER SIDE. FIRE LINES THROUGH PARKING LOTS SHALL BE NOT LESS THAN 24 FT. [IFC § 503.2.1.1]
24. A FIRE APPARATUS ACCESS ROAD SHALL BE MAINTAINED ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS, THIS DISTANCE COULD BE INCREASED TO 250 FT IF THE BUILDING IS SPRINKLERED. [IFC § 503.1.1]
25. ALL SECONDARY FIRE APPARATUS ACCESS ROADS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROAD WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600' COMMERCIAL AND INDUSTRIAL DEVELOPMENTS WHERE BUILDINGS EXCEED 2 STORIES OR 30 FEET IN HEIGHT, OR EXCEEDING 62,000 SQUARE FEET IN AREA. [IFC § 503.1.2]
26. FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED FOR 100 OR MORE, OR PRIVATE, IN EXCESS OF 100 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. [IFC § 503.2.5]
27. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE END OF THE DESIGNATED FIRE LANE, ON-SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE DESIGNATED FIRE LINES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE, SIGNS TO BE INSTALLED NO HIGHER THAN 8 FT ABOVE THE PAVEMENT. SIGNS SHALL BE PLACED WITH A RED ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. [IFC § 503.3]
28. A REMOTELY LOCATED FIRE GAZING STATION SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE IFC § 503.6 AND IFC APPENDIX M.

REVISÉ 3/1/16

1. SLACK SHALL BE PROVIDED IN EACH P30 P.B. (30 FT) AND TYPE 200 S.V. (120 FT) UNLESS OTHERWISE NOTED.
2. PULL BOXES/SPICE VAULTS SHALL NOT BE INSTALLED IN SIDEWALK RAMPS OR DRIVEWAYS.
3. SUMP HOLES SHALL BE PROVIDED IN ALL NEW AND EXISTING TYPE 200 SPICE VAULTS FOR DRAINAGE.
4. +6 P.P. 39 TO 42 SHALL BE INSTALLED. CABLE SHALL BE INSTALLED IN NEW AND EXISTING CONDUIT AS SHOWN IN CONDUIT AND WIRE SCHEDULE.
5. TRENCHING FOR NEW CONDUIT SHALL BE PER DETAILS ON DRAWING IO-XX.
6. CONDUIT LAYOUT IS SCHEDULED FOR THE PURPOSE OF CLARITY. IT MAY DIFFER FROM ACTUAL FIELD CONDITIONS.
7. INSTALLATION SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
8. ALL EXISTING ITS INFRASTRUCTURE SHALL BE MAINTAINED UNLESS OTHERWISE DIRECTED BY ENGINEER.
9. LOCATIONS OF THE PROPOSED FIBER OPTIC SYSTEM PULL BOXES SHOWN ON THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD. THESE LOCATIONS SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER BEFORE INSTALLATION.

1. 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.
2. 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.
3. 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.
4. 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.
5. 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:

	<u>HORIZONTAL</u>	<u>VERTICAL</u>
A. PAVEMENT AREA SUBGRADE	0.1"±	+0.0' TO -0.1'
B. ENGINEERED FILL	0.5"±	+0.1' TO -0.1'
6. COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE. COMPACTION SHALL COMPLY WITH THE REQUIREMENTS OF THE ENGINEER.
7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. 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.
9. 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.
10. 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

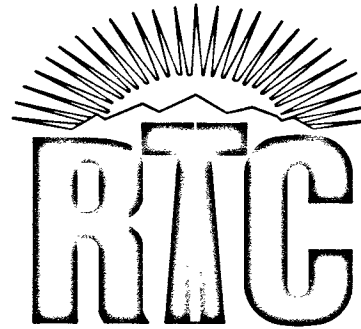
1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO THE START OF WORK.
3. BEFORE ANY WORK IS 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 THE START OF WORK. ALL SIGNING MUST BE ACCOMPLISHED, AND SIGNS MAINTAINED SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SUGGESTED ROUTE TO SCHOOL" IS ENCLOSED UPON BY A CONSTRUCTION WORK ZONE, THE CONTRACTOR SHALL MAINTAIN A GUARD RAIL OR TEMPORARY GUARDRAIL IN THE SAFETY ZONE, CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A MAINTAINED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. WHEN THE CONSTRUCTION WORK 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.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL SIGNS SHALL BE PROVIDED WITH DIAMOND GRADE VPI CLASS 6 REFLECTIVE SHEETING OR APPROVED EQUAL. ALL NEW TRAFFIC SIGNS, EXCEPT STREET NAME AND SCHOOL SPEED LIMIT SIGNS, SHALL HAVE 3M SERIES 1160 OR APPROVED EQUIVALENT ANTI-GRAFFITI PROTECTIVE FILM. SCHOOL, SCHOOL SPEED LIMIT, AND SCHOOL SPEED LIMIT WITH ANTI-GRAFFITI PROTECTIVE FILM, 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 OF STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS.
7. 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.
8. ALL SIGNPOSTS SHALL BE CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO 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.
9. ALL STREET SIGN AND POLE SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN AND AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR A USA WORK ZONE CERTIFICATION, SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM CONVENIENCE TO THE PUBLIC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CITIZENS AREA TRANSIT (C.A.T.) 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.
13. ALL CITY TRAFFIC ENGINEER, THE METRO POLICE, AND THE METRO 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.
14. ANY WORK WITHIN ANY WORK ZONE AT A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.

15. THE CONTRACT
THE PROJECT'S

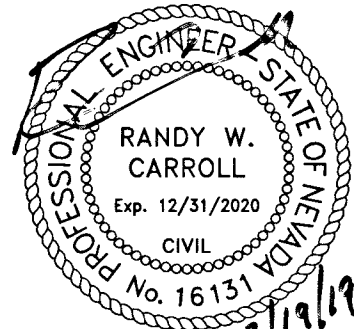
NV ENERGY, CENTRAL TELEPHONE CO, DBA CENTURY LINK TELEPHONE, AND SOUTHWEST GAS SHOWN FOR INFORMATIONAL PURPOSES ONLY. REFERENCE NV ENERGY, CENTRAL TELEPHONE CO, DBA CENTURY LINK TELEPHONE, AND SOUTHWEST GAS DRAWINGS FOR CONSTRUCTION DETAILS. CONTRACTOR TO COORDINATE WITH UTILITIES FOR REMOVAL AND INSTALLATION OF FACILITIES.

ALL EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN IN THEIR EXISTING RECORDS. THE DEPTH BELONGS TO THE CONTRACTOR. THE DEPTH OF UTILITIES DEPICTED IN THE PLANS VARIES THROUGHOUT THE PROJECT AREA. THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHERE EXCAVATING AND GRADING THE SUBBASE IN THE VICINITY OF UTILITIES TO AVOID DAMAGE TO THE LATTER.

ALL EXISTING UTILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.



REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA



PROJECT No: TSC1802 DRAWN BY: JAS

DESIGNED BY: JAS CHECKED BY: JSR

APPROVED BY _____

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TRANSWORLD a Westworld
5740 S. ARVILLE STREET #216, LAS VEGAS

SCALE

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FIELD BOOK

DRAWING NO.

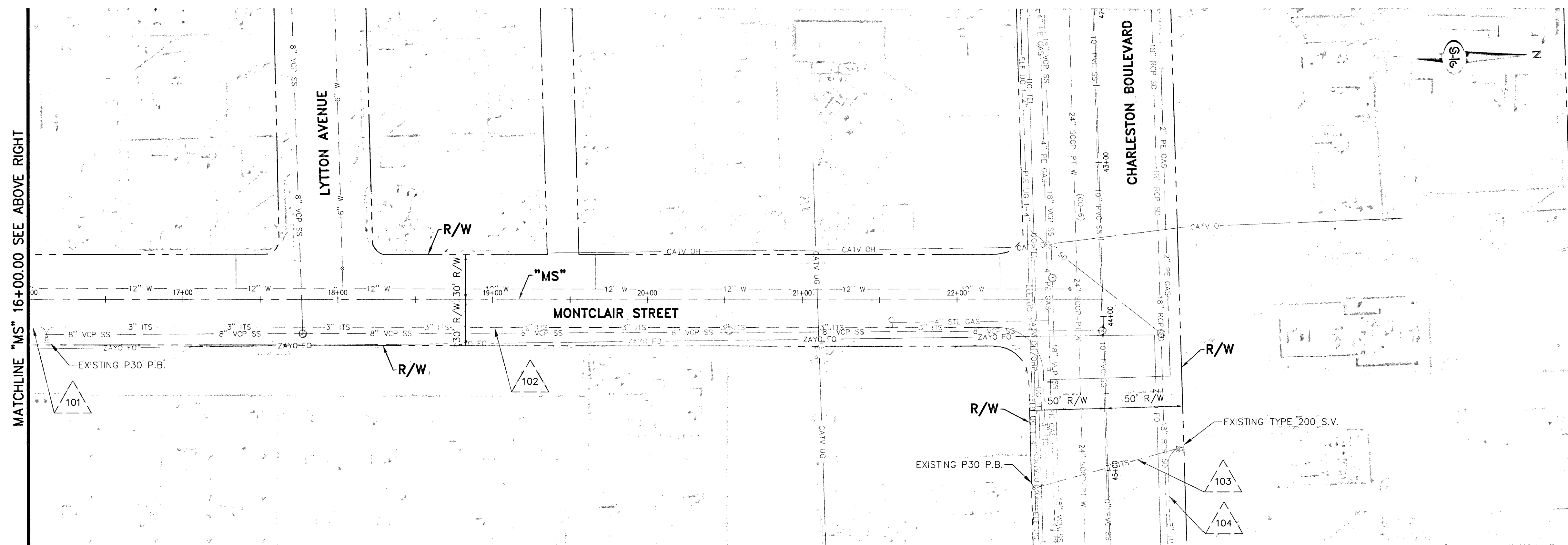
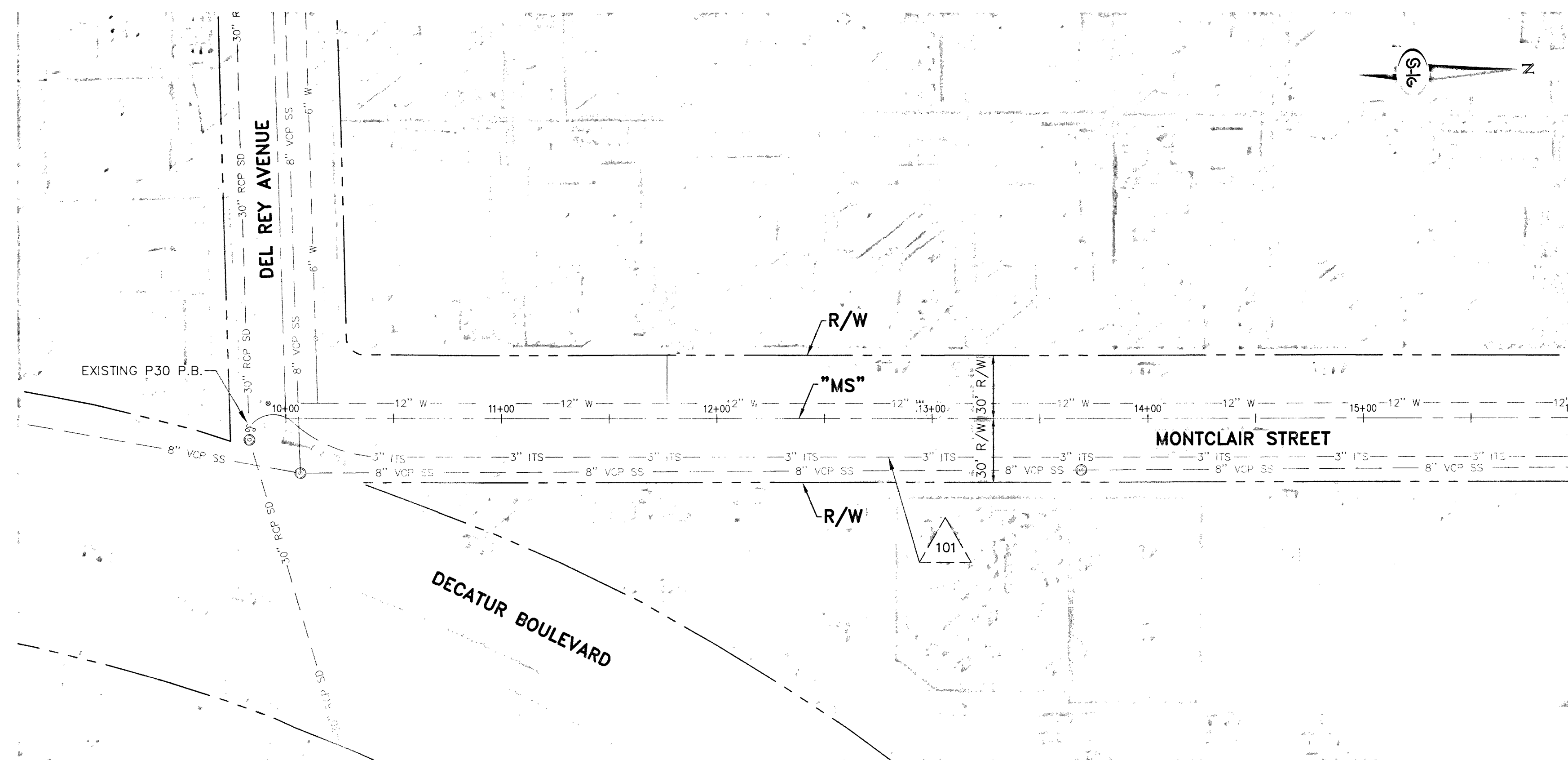
G-3

TABLE 1. *Continued*

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277-00102

REV NO	DATE	DESCRIPTION	APPROVED
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CONSTRUCTION NOTES

1. INSTALL P30 PULL BOX
(USDDCA STD. DWG NOS. 761 & 763)
2. INSTALL TYPE 200 SPLICE VAULT
(USDDCA STD. DWG NOS. 762 & 763)
3. REMOVE EXISTING PULL BOX
4. REPAIR BROKEN CONDUIT (SEE DETAIL 1,
DRAWING IC-12 FOR PAVEMENT PATCH)
5. REPAIR BROKEN CONDUIT (SEE DETAIL 2,
DRAWING IC-12 FOR PAVEMENT PATCH)
6. INTERCEPT AND EXTEND EXISTING
CONDUIT TO PULL BOX
7. INSTALL OPTICOM GPS EVP ON TRAFFIC
SIGNAL POLE. ROUTE CABLES/CONDUCTORS
THROUGH EXISTING TRAFFIC SIGNAL CONDUIT
TO CABINET. INSTALL OPTICOM GPS EVP
CABINET EQUIPMENT IN EXISTING RACKS
8. INSTALL CCTV CAMERA AND EXTENSION ON
POLE. ROUTE CABLES/CONDUCTORS THROUGH
EXISTING TRAFFIC SIGNAL CONDUIT TO
CONTROLLER CABINET. INSTALL CONTROL UNIT
AND ENCODER IN CONTROLLER CABINET WITH
ALL ASSOCIATED CABLES AND CONDUCTORS
9. INSTALL TRAFFICAST DSRC AND BLUETOOTH
RSU ON MAST ARM. ROUTE CABLES THROUGH
MAST ARM, SIGNAL POLE AND EXISTING
TRAFFIC SIGNAL CONDUIT TO CONTROLLER
CABINET. MOUNT ASSOCIATED CABINET
EQUIPMENT IN EXISTING CONTROLLER CABINET
10. COIL ADDITIONAL S-LINK IN BOTH THE
72"-STRAND AND 96"-STRAND FIBER OPTIC
CABLE (30 FT P30 P.B. AND 120 FT TYPE
200 S.V.) FOR CITY OF LAS VEGAS FUTURE
RELOCATION
11. DISCONNECT LOOP DETECTION EQUIPMENT AND
INSTALL NEW VIDEO DETECTION SYSTEM.
ROUTE CABLES/CONDUCTORS THROUGH
EXISTING TRAFFIC SIGNAL CONDUIT TO
CONTROLLER CABINET. INSTALL NEW VIDEO
DETECTION CAMERA ON EACH POLE. SEE
EQUIPMENT TABLE ON IC-11
12. REMOVE AND SALVAGE EXISTING VIDEO
DETECTION EQUIPMENT IN TRAFFIC SIGNAL
CABINET AND REPLACE WITH NEW VIDEO
DETECTION EQUIPMENT. EXISTING NEW
DETECTION CAMERAS AND
CABLES/CONDUCTORS SHALL REMAIN. SEE
EQUIPMENT TABLE ON IC-11
13. INSTALL TYPE 100 PULL BOX
(USDDCA STD. DWG NO. 763)

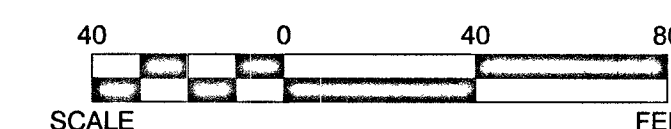
GENERAL NOTES

1. SEE DRAWING G-3 FOR FIBER OPTIC NOTES.
2. TWO (2) WEEKS PRIOR TO BEGINNING WORK, CONTRACTOR SHALL CALL CITY OF LAS VEGAS TRAFFIC ENGINEERING AT 229-6331 FOR COORDINATION.
3. THE UTILITY LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. THE FACTUAL FIELD LOCATIONS, CALLS, SHALL BE 229-7600.
4. WHERE NEW CONDUIT CROSSES EXISTING WATERLINES OR GAS LINES, PROTECT WATERLINE OR GAS LINE IN PLACE. WHERE NEW CONDUIT IS PARALLEL TO EXISTING WATERLINE, MAINTAIN MINIMUM 3 FEET PARALLEL SEPARATION.
5. PROTECT IN PLACE EXISTING STORM DRAIN AND SANITARY SEWER MAINS, LATERALS AND MANHOLES FROM STORM DRAIN DROP INLETS DURING CONSTRUCTION.
6. IF EXISTING SIDEWALK AND/OR CURB AND GUTTER IS DAMAGED DURING CONSTRUCTION, CONTRACTOR SHALL REPLACE TO NEAREST EXISTING CONSTRUCTION JOINT.
7. PROTECT IN PLACE AND ADJUST LVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

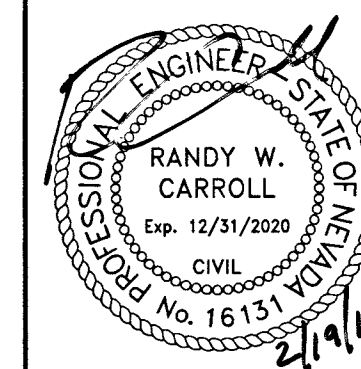
APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136138 FIRST APPROVED DATE: 2-25-19

KEY MAP

[illegible]

CHARLESTON BOULEVARD ITS INFRASTRUCTURE
FIBER OPTIC SYSTEM PLAN
"MS" 10+00.00 TO "CB" 45+50.00
REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA

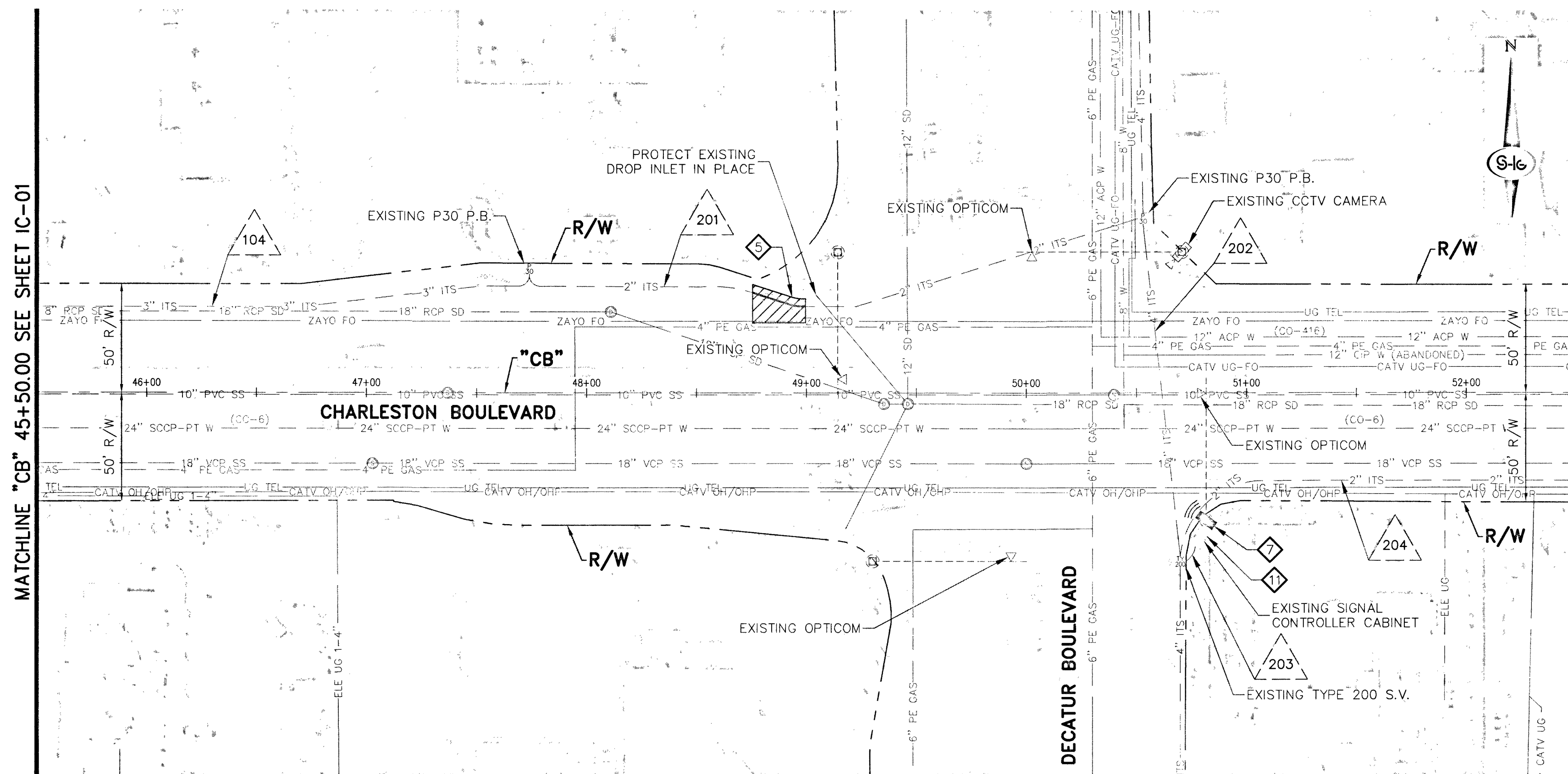


PROJECT No: TSC1802 DRAWN BY: JAS
DESIGNED BY: JAS CHECKED BY: JSP
APPROVED BY: _____



SCALE
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DRAWING NO.
IC-01
SHT. 4 OF 15
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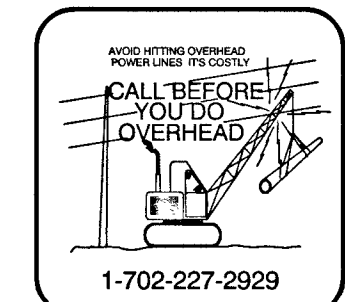
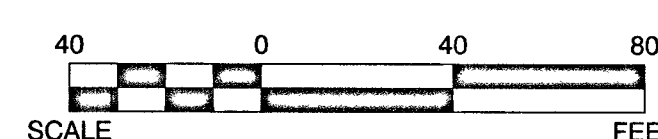
MATCHLINE "CB" 52+50.00 SEE BELOW LEFT

- ### CONSTRUCTION NOTES
1. INSTALL P30 PULL BOX (USDCCA STD. DWG NOS. 761 & 763)
 2. INSTALL TYPE 200 SPLICE VAULT (USDCCA STD. DWG NOS. 762 & 763)
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 8. INSTALL CCTV CAMERA AND EXTENSION ON POLE. ROUTE CABLES/CONDUCTORS THROUGH EXISTING TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. INSTALL CONTROL UNIT AND ENCODER IN CONTROLLER CABINET WITH ALL ASSOCIATED CABLES AND CONDUCTORS
 9. INSTALL TRAFFICCAST DSRC AND BLUETOOTH RSU ON MAST ARM. ROUTE CABLES THROUGH TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. MOUNT ASSOCIATED CABINET EQUIPMENT IN EXISTING CONTROLLER CABINET
 10. COIL ADDITIONAL SLACK IN BOTH THE 72-STRAND AND 96-STRAND FIBER OPTIC CABLE (30 FT P30 P.B. AND 120 FT TYPE 200 S.V.) FOR CITY OF LAS VEGAS FUTURE RELOCATION
 11. DISCONNECT LOOP DETECTION EQUIPMENT AND INSTALL NEW VIDEO DETECTION SYSTEM. ROUTE CABLES/CONDUCTORS THROUGH EXISTING TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. INSTALL NEW VIDEO DETECTION CAMERA ON EACH POLE. SEE EQUIPMENT TABLE ON IC-11
 12. REMOVE AND SALVAGE EXISTING VIDEO DETECTION EQUIPMENT IN TRAFFIC SIGNAL CABINET AND PLACE WITH NEW VIDEO DETECTION EQUIPMENT. EXISTING VIDEO DETECTION CAMERAS AND CABLES/CONDUCTORS SHALL REMAIN. SEE EQUIPMENT TABLE ON IC-11
 13. INSTALL TYPE 100 PULL BOX (USDCCA STD. DWG NO. 763)

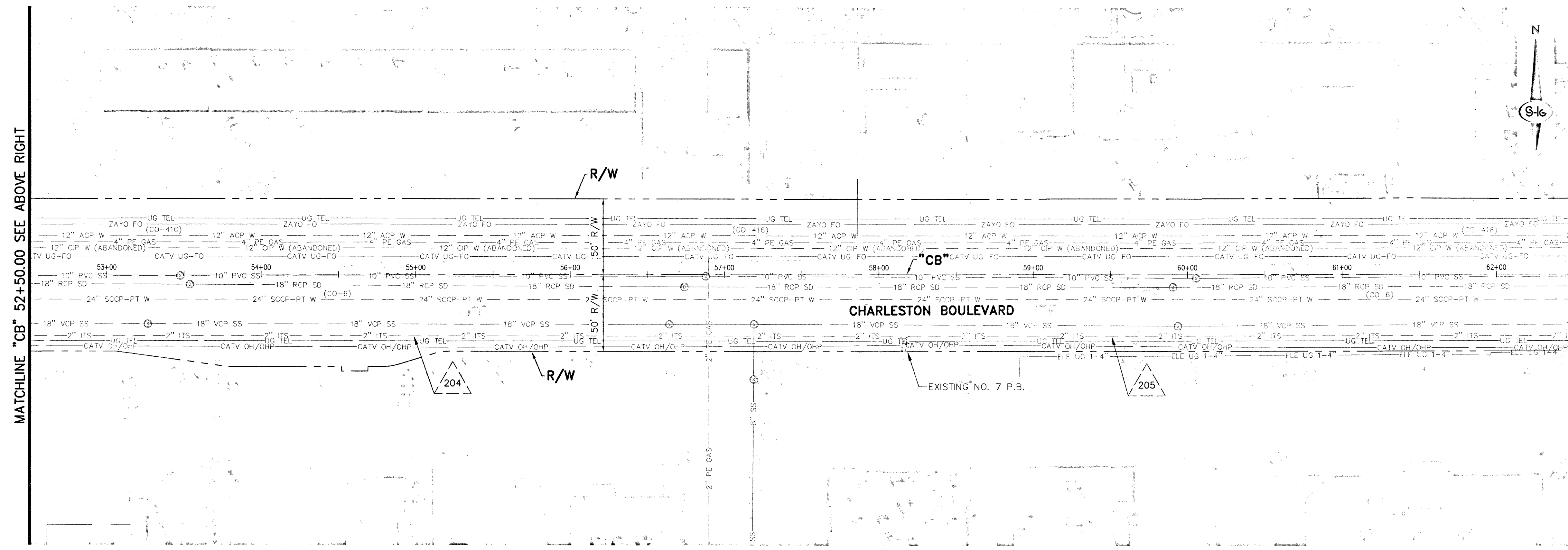
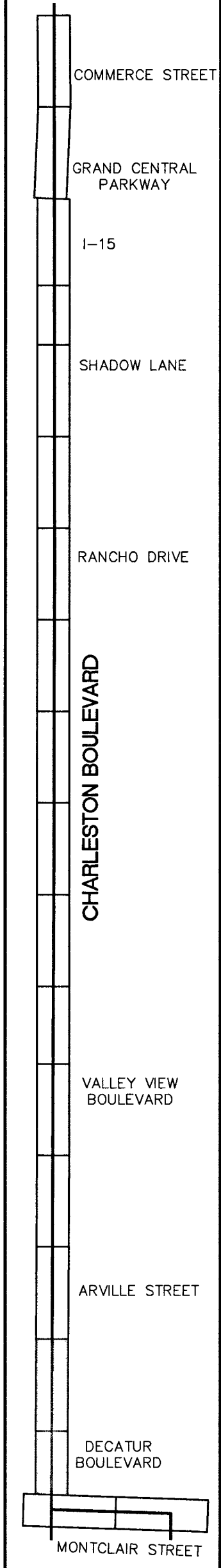
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1. SEE DRAWING G-3 FOR FIBER OPTIC NOTES.
 2. TWO (2) WEEKS PRIOR TO BEGINNING WORK, CONTRACTOR SHALL CALL CITY OF LAS VEGAS TRAFFIC ENGINEERING AT 229-6331 FOR COORDINATION.
 3. THE UTILITY LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. FOR ACTUAL FIELD LOCATIONS, CALL 1-800-227-2600.
 4. WHERE NEW CONDUIT CROSSES EXISTING WATERLINES OR GAS LINES, PROTECT WATERLINE OR GAS LINE IN PLACE. WHERE NEW CONDUIT IS PARALLEL TO EXISTING WATERLINES, MAINTAIN MINIMUM 3 FEET PARALLEL SEPARATION.
 5. PROTECT IN PLACE EXISTING STORM DRAIN AND SANITARY SEWER MAINS, LATERALS AND MANHOLES AND STORM DRAIN DROP INLETS DURING CONSTRUCTION.
 6. IF EXISTING SIDEWALK AND/OR CURB AND GUTTER IS DAMAGED DURING CONSTRUCTION, CONTRACTOR SHALL REPLACE TO NEAREST EXISTING CONSTRUCTION JOINT.
 7. PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

APPROVED FOR CONSTRUCTION

 LAS VEGAS VALLEY DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136138 FIRST APPROVED DATE: 2-25-19



KEY MAP



MATCHLINE "CB" 52+50.00 SEE ABOVE RIGHT

MATCHLINE "CB" 62+50.00 SEE SHEET IC-03

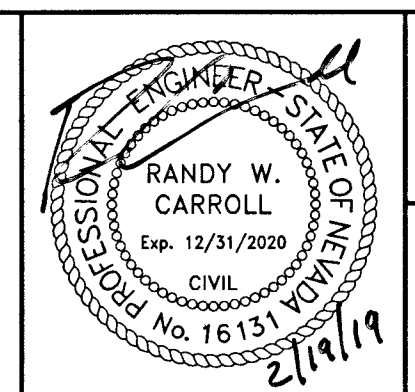
REV. NO.	DATE	DESCRIPTION	APPROVED

CHARLESTON BOULEVARD ITS INFRASTRUCTURE

FIBER OPTIC SYSTEM PLAN

"CB" 45+50.00 TO "CB" 62+50.00

REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA



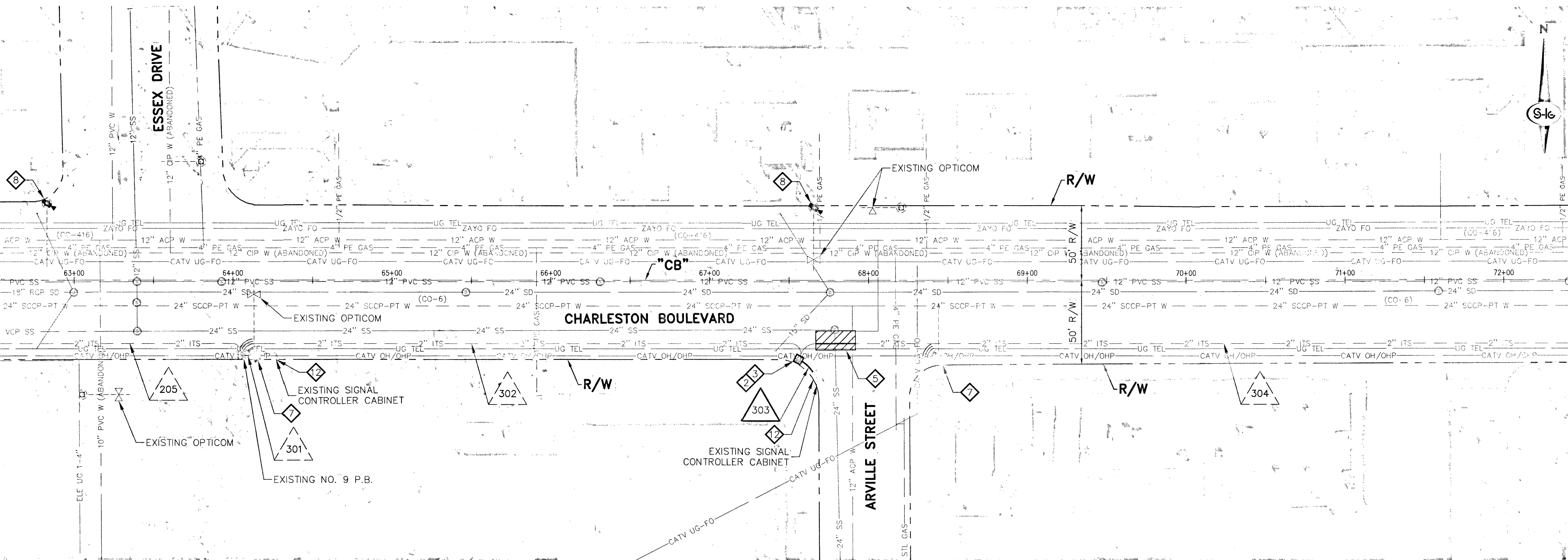
PROJECT No:	TSC1802	DRAWN BY:	JAS
DESIGNED BY:	JAS	CHECKED BY:	JSR
APPROVED BY:			



SCALE	DRAWING NO.
HORIZ: AS SHOWN	IC-02
VERT: AS SHOWN	SHT. 5 OF 15
FIELD BOOK	119-00102
	10717664

MATCHLINE "CB" 62+50.00 SEE SHEET IC-02

MATCHLINE "CB" 72+50.00 SEE ABOVE RIGHT



MATCHLINE "CB" 72+50.00 SEE BELOW LEFT

- ### CONSTRUCTION NOTES
1. INSTALL P30 PULL BOX (USDCCA STD. DWG NOS. 761 & 763)
 2. INSTALL TYPE 200 SPLICE VAULT (USDCCA STD. DWG NOS. 762 & 763)
 3. REMOVE EXISTING PULL BOX
 4. REPAIR BROKEN CONDUIT (SEE DETAIL 1, DRAWING IC-12 FOR PAVEMENT PATCH)
 5. REPAIR BROKEN CONDUIT (SEE DETAIL 2, DRAWING IC-12 FOR PAVEMENT PATCH)
 6. INTERCEPT AND EXTEND EXISTING CONDUIT TO PULL BOX
 7. INSTALL OPTICOM GPS EVP ON TRAFFIC SIGNAL POLE. ROUTE CABLES/CONDUCTORS THROUGH EXISTING TRAFFIC SIGNAL CONDUIT TO CABINET. INSTALL OPTICOM GPS EVP CABINET EQUIPMENT IN EXISTING RACKS
 8. INSTALL CCTV CAMERA AND EXTENSION ON POLE. ROUTE CABLES/CONDUCTORS THROUGH EXISTING TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. INSTALL CONTROL UNIT AND ENCODER IN CONTROLLER CABINET WITH ALL ASSOCIATED CABLES AND CONDUCTORS
 9. INSTALL TRAFFICCAST DSRC AND BLUETOOTH RSU ON MAST ARM. ROUTE CABLES THROUGH MAST ARM, SIGNAL POLE AND EXISTING TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. MOUNT ASSOCIATED CABINET EQUIPMENT IN EXISTING CONTROLLER CABINET
 10. COIL ADDITIONAL SLACK IN BOTH THE 72-STRAND AND 96-STRAND FIBER OPTIC CABLE (30 FT P30 P.B. AND 120 FT TYPE 200 S.V.) FOR CITY OF LAS VEGAS FUTURE RELOCATION
 11. DISCONNECT LOOP DETECTION EQUIPMENT AND INSTALL NEW VIDEO DETECTION SYSTEM. ROUTE CABLES/CONDUCTORS THROUGH EXISTING TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. INSTALL NEW VIDEO DETECTION CAMERA ON EACH POLE. SEE EQUIPMENT TABLE ON IC-11
 12. REMOVE AND SALVAGE EXISTING VIDEO DETECTION EQUIPMENT IN TRAFFIC SIGNAL CABINET AND REPLACE WITH NEW VIDEO DETECTION EQUIPMENT. EXISTING VIDEO DETECTION CAMERAS AND CABLES/CONDUCTORS SHALL REMAIN. SEE EQUIPMENT TABLE ON IC-11
 13. INSTALL TYPE 100 PULL BOX (USDCCA STD. DWG NO. 763)

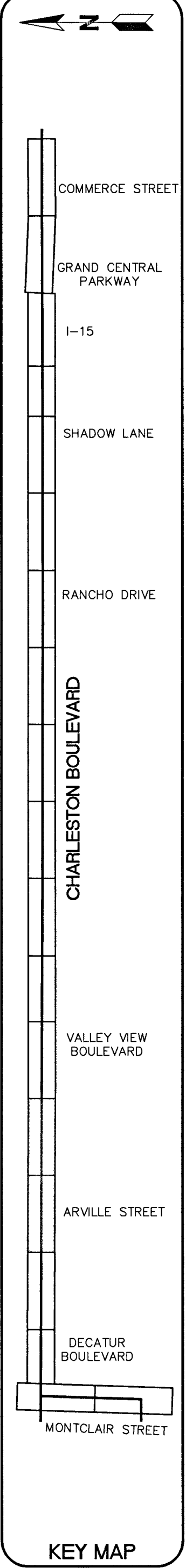
- ### GENERAL NOTES
1. SEE DRAWING G-3 FOR FIBER OPTIC NOTES.
 2. TWO (2) WEEKS PRIOR TO BEGINNING WORK, CONTRACTOR SHALL CALL CITY OF LAS VEGAS TRAFFIC ENGINEERING AT 229-6331 FOR COORDINATION.
 3. THE UTILITY LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. FOR ACTUAL FIELD LOCATIONS, CALL 1-800-227-2600.
 4. WHERE NEW CONDUIT CROSSES EXISTING WATERLINES OR GAS LINES, PROTECT WATERLINE OR GAS LINE IN PLACE. WHERE NEW CONDUIT IS PARALLEL TO EXISTING WATERLINES, MAINTAIN MINIMUM 3 FEET PARALLEL SEPARATION.
 5. PROTECT IN PLACE EXISTING STORM DRAIN AND SANITARY SEWER MAINS, LATERALS AND MANHOLES AND STORM DRAIN DROP INLETS DURING CONSTRUCTION.
 6. IF EXISTING SIDEWALK AND/OR CURB AND GUTTER IS DAMAGED DURING CONSTRUCTION, CONTRACTOR SHALL REPLACE TO NEAREST EXISTING CONSTRUCTION JOINT.
 7. PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

APPROVED FOR CONSTRUCTION
[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136138 FIRST APPROVED DATE: 8-25-11

Call before you dig
UnderGround.
1-702-432-5300

Call before you dig
811
1-800-227-2600

CALL BEFORE YOU DIG
OVERHEAD
1-702-227-2929



REV. NO.	DATE	DESCRIPTION	APPROVED

CHARLESTON BOULEVARD ITS INFRASTRUCTURE
FIBER OPTIC SYSTEM PLAN
"CB" 62+50.00 TO "CB" 82+50.00
REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA

PROJECT No: TSC1802 DRAWN BY: JAS
DESIGNED BY: JAS CHECKED BY: JSR
APPROVED BY: *[Signature]*

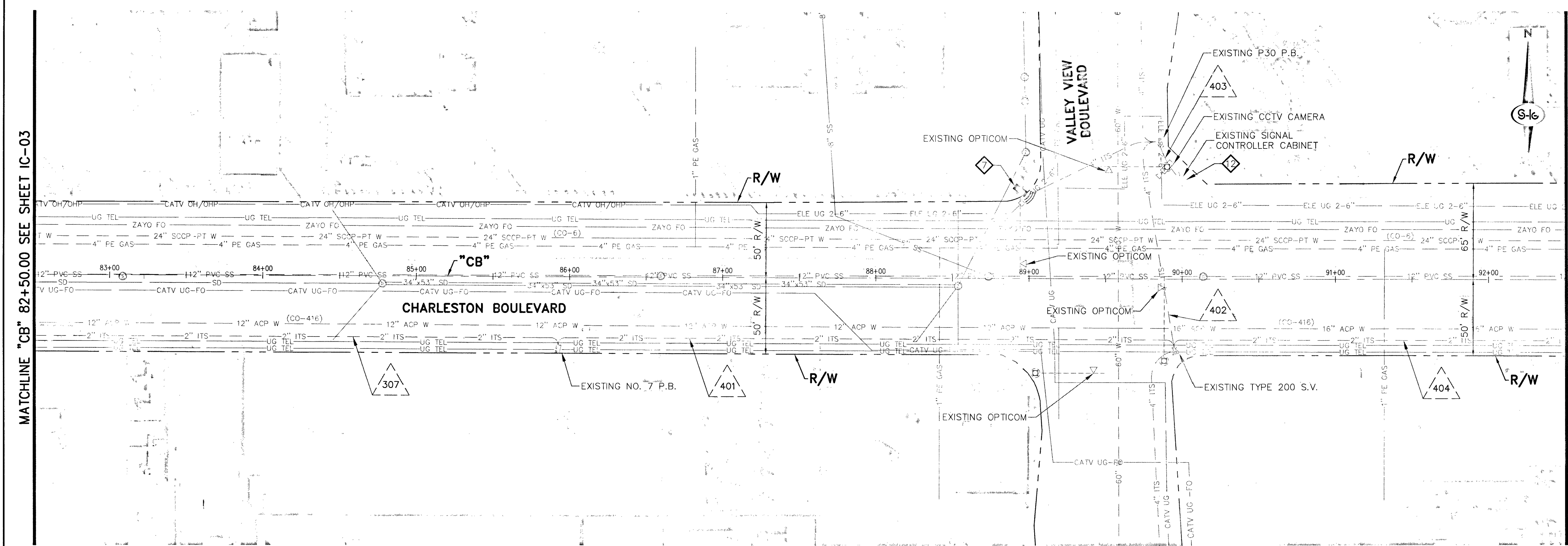
TRANSCORE

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

SLATER HANFAN GROUP
1748 S. ARVILLE STREET #214, LAS VEGAS, NV 89118
PHONE (702) 284-0300 FAX (702) 284-0399

DRAWING NO.
IC-03
SHT. 6 OF 15
119-00102
107V7664

MATCHLINE "CB" 82+50.00 SEE SHEET IC-03

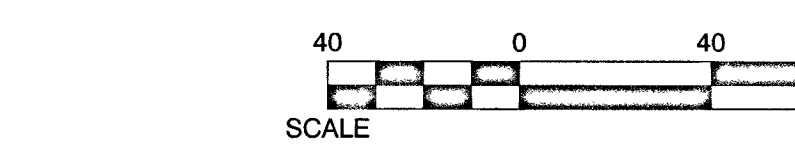


MATCHLINE "CB" 92+50.00 SEE BELOW LEFT

- ### CONSTRUCTION NOTES
- 1. INSTALL P30 PULL BOX (USDCCA STD. DWG NOS. 761 & 763)
 - 2. INSTALL TYPE 200 SPLICE VAULT (USDCCA STD. DWG NOS. 762 & 763)
 - 3. REMOVE EXISTING PULL BOX
 - 4. REPAIR BROKEN CONDUIT (SEE DETAIL 1, DRAWING IC-12 FOR PAVEMENT PATCH)
 - 5. REPAIR BROKEN CONDUIT (SEE DETAIL 2, DRAWING IC-12 FOR PAVEMENT PATCH)
 - 6. INTERCEPT AND EXTEND EXISTING CONDUIT TO PULL BOX
 - 7. INSTALL OPTICOM GPS EVP ON TRAFFIC SIGNAL POLE. ROUTE CABLES/CONDUCTORS THROUGH EXISTING TRAFFIC SIGNAL CONDUIT TO CABINET. INSTALL OPTICOM GPS EVP CABINET EQUIPMENT IN EXISTING RACKS
 - 8. INSTALL CCTV CAMERA AND EXTENSION ON POLE. ROUTE CABLES/CONDUCTORS THROUGH EXISTING TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. INSTALL CONTROL UNIT AND ENCODER IN CONTROLLER CABINET WITH ALL ASSOCIATED CABLES AND CONDUCTORS
 - 9. INSTALL TRAFFICCAST DSRC AND BLUETOOTH RSU ON MAST ARM. ROUTE CABLES THROUGH MAST ARM, SIGNAL POLE AND EXISTING TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. MOUNT ASSOCIATED CABINET EQUIPMENT IN EXISTING CONTROLLER CABINET
 - 10. COIL ADDITIONAL SLACK IN BOTH THE 72-STRAND AND 96-STRAND FIBER OPTIC CABLE (30 FT P30 P.B. AND 120 FT TYPE 200 S.V.) FOR CITY OF LAS VEGAS FUTURE RELOCATION
 - 11. DISCONNECT LOOP DETECTION EQUIPMENT AND INSTALL NEW VIDEO DETECTION SYSTEM. ROUTE CABLES/CONDUCTORS THROUGH EXISTING TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. INSTALL NEW VIDEO DETECTION CAMERA ON EACH POLE. SEE EQUIPMENT TABLE ON IC-11
 - 12. REMOVE AND SALVAGE EXISTING VIDEO DETECTION EQUIPMENT IN TRAFFIC SIGNAL CABINET AND REPLACE WITH NEW VIDEO DETECTION EQUIPMENT. EXISTING VIDEO DETECTION CAMERAS AND CABLES/CONDUCTORS SHALL REMAIN. SEE EQUIPMENT TABLE ON IC-11
 - 13. INSTALL TYPE 100 PULL BOX (USDCCA STD. DWG NO. 763)

- ### GENERAL NOTES
1. SEE DRAWING G-3 FOR FIBER OPTIC NOTES.
 2. TWO (2) WEEKS PRIOR TO BEGINNING WORK, CONTRACTOR SHALL CALL CITY OF LAS VEGAS TRAFFIC ENGINEERING AT 223-6331 FOR COORDINATION.
 3. THE UTILITY LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. FOR ACTUAL FIELD LOCATIONS, CALL 1-800-227-2600.
 4. WHERE NEW CONDUIT CROSSES EXISTING WATERLINES OR GAS LINES, PROTECT WATERLINE OR GAS LINE IN PLACE. WHERE NEW CONDUIT IS PARALLEL TO EXISTING WATERLINES, MAINTAIN MINIMUM 3 FEET PARALLEL SEPARATION.
 5. PROTECT IN PLACE EXISTING STORM DRAIN AND SANITARY SEWER MAINS, LATERALS AND MANHOLES AND STORM DRAIN DROP INLETS DURING CONSTRUCTION.
 6. IF EXISTING SIDEWALK AND/OR CURB AND GUTTER IS DAMAGED DURING CONSTRUCTION, CONTRACTOR SHALL REPLACE TO NEAREST EXISTING CONSTRUCTION JOINT.
 7. PROTECT IN PLACE AND ADJUST LVWDV EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVWDV FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

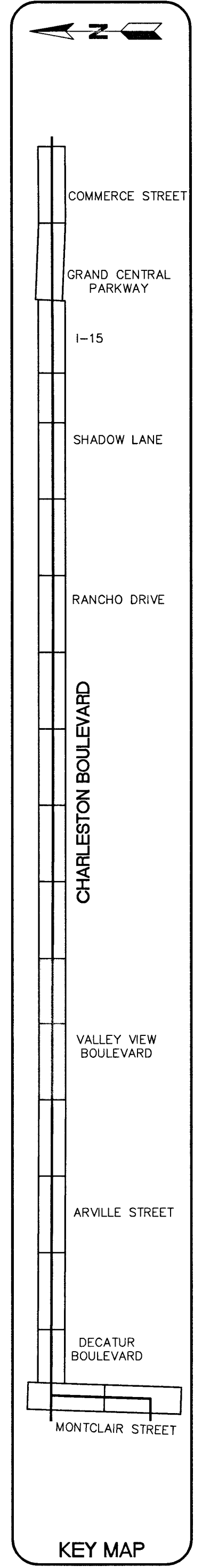
APPROVED FOR CONSTRUCTION
John Shady
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136138 FIRST APPROVED DATE: 2-25-19



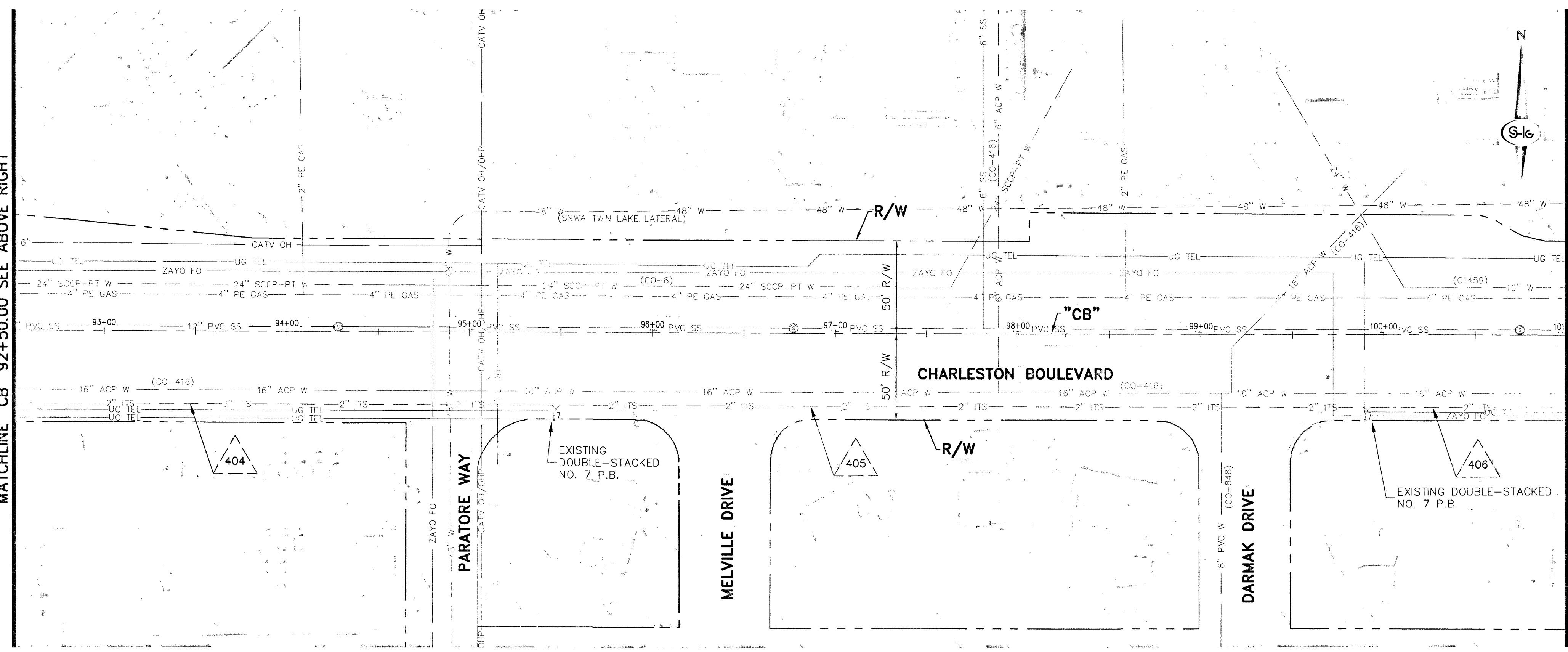
Call before you Dig
Underground.
1-702-432-5300

Call before you Dig
Call
1-800-227-2600

Call before you Dig
Call
1-702-227-2929



MATCHLINE "CB" 92+50.00 SEE ABOVE RIGHT



MATCHLINE "CB" 101+00.00 SEE SHEET IC-05

REV. NO.	DATE	DESCRIPTION	APPROVED

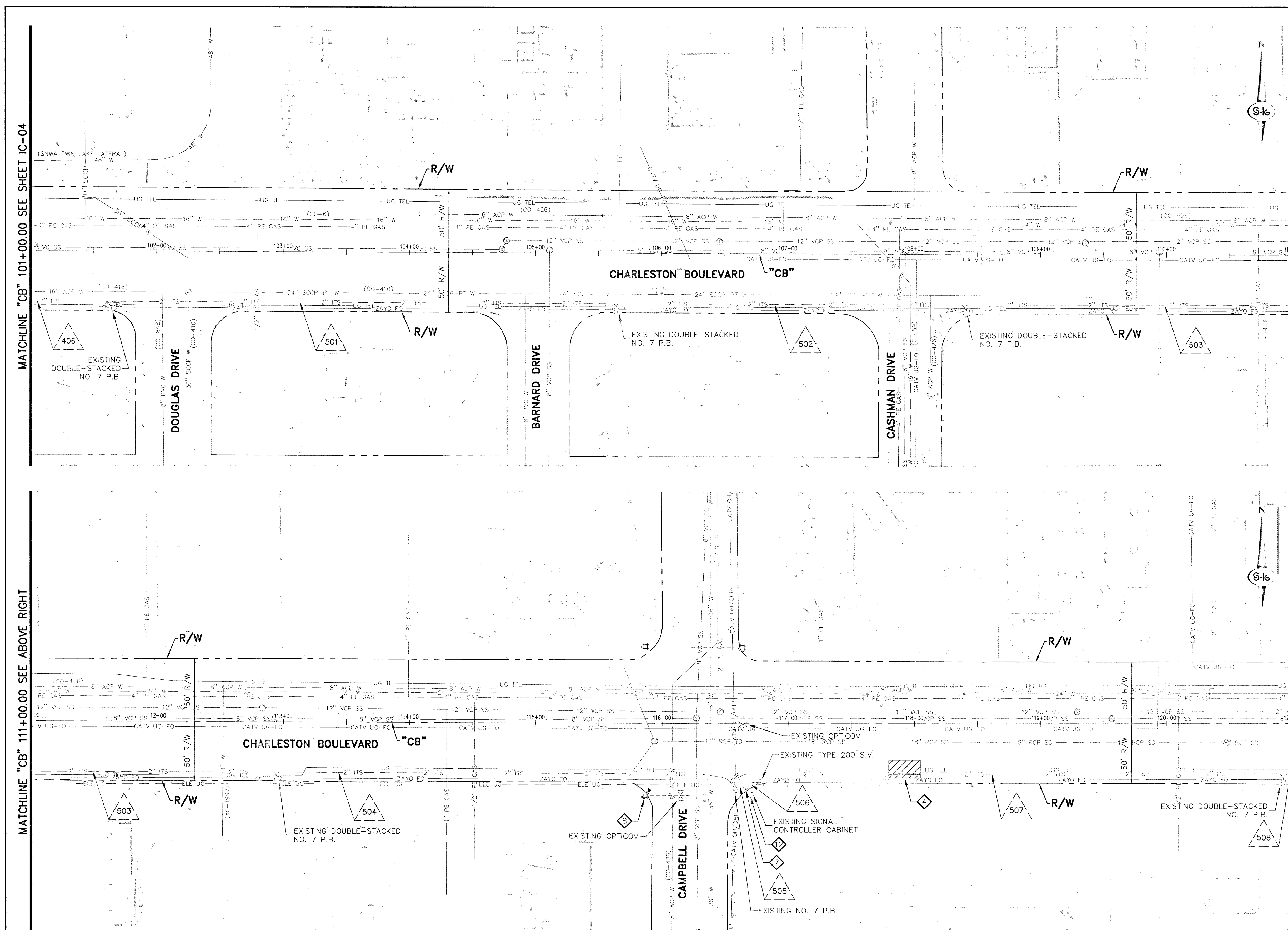
CHARLESTON BOULEVARD ITS INFRASTRUCTURE
FIBER OPTIC SYSTEM PLAN
"CB" 82+50.00 TO "CB" 101+00.00
REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA

PROJECT No: TSC1802 DRAWN BY: JAS
DESIGNED BY: JAS CHECKED BY: JSR
APPROVED BY:

TRANSCORE

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.
IC-04
SHT. 7 OF 15
1/9-00102
107 V 7 664



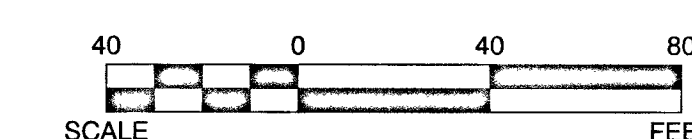
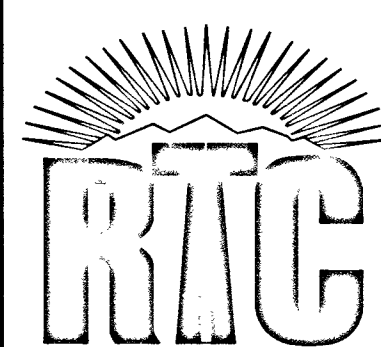
- ## CONSTRUCTION NOTES
1. INSTALL P30 PULL BOX
(USDCCA STD. DWG NOS. 761 & 763)
 2. INSTALL TYPE 200 SPLICE VAULT
(USDCCA STD. DWG NOS. 762 & 763)
 3. REMOVE EXISTING PULL BOX
 4. REPAIR BROKEN CONDUIT (SEE DETAIL 1,
DRAWING IC-12 FOR PAVEMENT PATCH)
 5. REPAIR BROKEN CONDUIT (SEE DETAIL 2,
DRAWING IC-12 FOR PAVEMENT PATCH)
 6. INTERCEPT AND EXTEND EXISTING
CONDUIT TO PULL BOX
 7. INSTALL OPTICOM GPS EVP ON TRAFFIC
SIGNAL POLE. ROUTE CABLES/CONDUCTORS
THROUGH EXISTING TRAFFIC SIGNAL CONDUIT
TO CABINET. INSTALL OPTICOM GPS EVP
CABINET EQUIPMENT IN EXISTING RACKS
 8. INSTALL CCTV CAMERA AND EXTENSION ON
POLE. ROUTE CABLES/CONDUCTORS THROUGH
EXISTING TRAFFIC SIGNAL CONDUIT TO
CONTROLLER CABINET. INSTALL CONTROL UNIT
AND ENCODER IN CONTROLLER CABINET WITH
ALL ASSOCIATED CABLES AND CONDUCTORS
 9. INSTALL TRAFFICAST DSRC AND BLUETOOTH
RSU ON MAST ARM. ROUTE CABLES THROUGH
MAST ARM, SIGNAL POLE AND EXISTING
TRAFFIC SIGNAL CONDUIT TO CONTROLLER
CABINET. MOUNT ASSOCIATED CABINET
EQUIPMENT IN EXISTING CONTROLLER CABINET
 10. COIL ADDITIONAL SLACK IN BOTH THE
72-STRAIND AND 96-STRAIND FIBER OPTIC
CABLE (30 FT P30 P.B. AND 120 FT TYPE
200 S.V.) FOR CITY OF LAS VEGAS FUTURE
RELOCATION
 11. DISCONNECT LOOP DETECTION EQUIPMENT AND
INSTALL NEW VIDEO DETECTION SYSTEM.
ROUTE CABLES/CONDUCTORS THROUGH
EXISTING TRAFFIC SIGNAL CONDUIT TO
CONTROLLER CABINET. INSTALL NEW VIDEO
DETECTION CAMERA ON EACH POLE. SEE
EQUIPMENT TABLE ON IC-11
 12. REMOVE AND SALVAGE EXISTING VIDEO
DETECTION EQUIPMENT IN TRAFFIC SIGNAL
CABINET AND REPLACE WITH NEW VIDEO
DETECTION EQUIPMENT. EXISTING VIDEO
DETECTION CAMERAS AND
CABLES/CONDUCTORS SHALL REMAIN. SEE
EQUIPMENT TABLE ON IC-11
 13. INSTALL TYPE 100 PULL BOX
(USDCCA STD. DWG NO. 763)

- ## GENERAL NOTES
1. SEE DRAWING G-3 FOR FIBER OPTIC NOTES.
 2. TWO (2) WEEKS PRIOR TO BEGINNING WORK, CONTRACTOR SHALL CALL CITY OF LAS VEGAS TRAFFIC ENGINEERING AT 229-6331 FOR COORDINATION.
 3. ALL UTILITY LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. FOR ACTUAL FIELD LOCATIONS, CALL 311-227-7600.
 4. WHERE NEW CONDUIT CROSSES EXISTING WATERLINE OR GAS LINES, PROTECT WATERLINE OR GAS LINE BY WHERE NECESSARY, BY INSTALLING NEW EXISTING WATERLINES, MAINTAIN MINIMUM 3 FEET PARALLEL SEPARATION.
 5. THE EFFECT IN PLACE EXISTING STORM DRAIN AND SANITARY SEWER MAINS, LATERALS AND MANHOLES AND STORM DRAIN DROP INLETS DURING CONSTRUCTION.
 6. DURING SIDEWALK AND/OR CURB AND GUTTER IS DAMAGED DURING CONSTRUCTION, CONTRACTOR SHALL REPLACE TO NEAREST EXISTING CONDITION.
 7. TO PROTECT IN PLACE AND ADJUST LVVMD EXISTING FACILITIES TO FINISHED GRADE PER UDACS, ALL LVVMD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

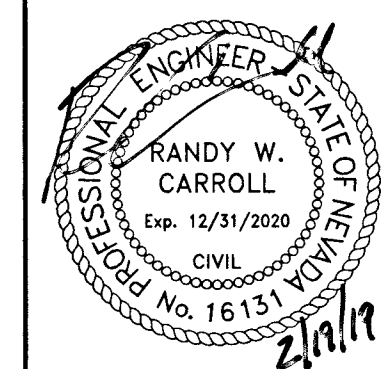
APPROVED FOR CONSTRUCTION

[Signature]

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136138 FIRST APPROVED DATE: 2-25-74

[illegible]

**CHARLESTON BOULEVARD ITS INFRASTRUCTURE
FIBER OPTIC SYSTEM PLAN
"CB" 101+00.00 TO "CB" 121+00.00
REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA**



PROJECT No:	TSC1802	DRAWN BY:	JAS
DESIGNED BY:	JAS	CHECKED BY:	JSR
APPROVED BY:			



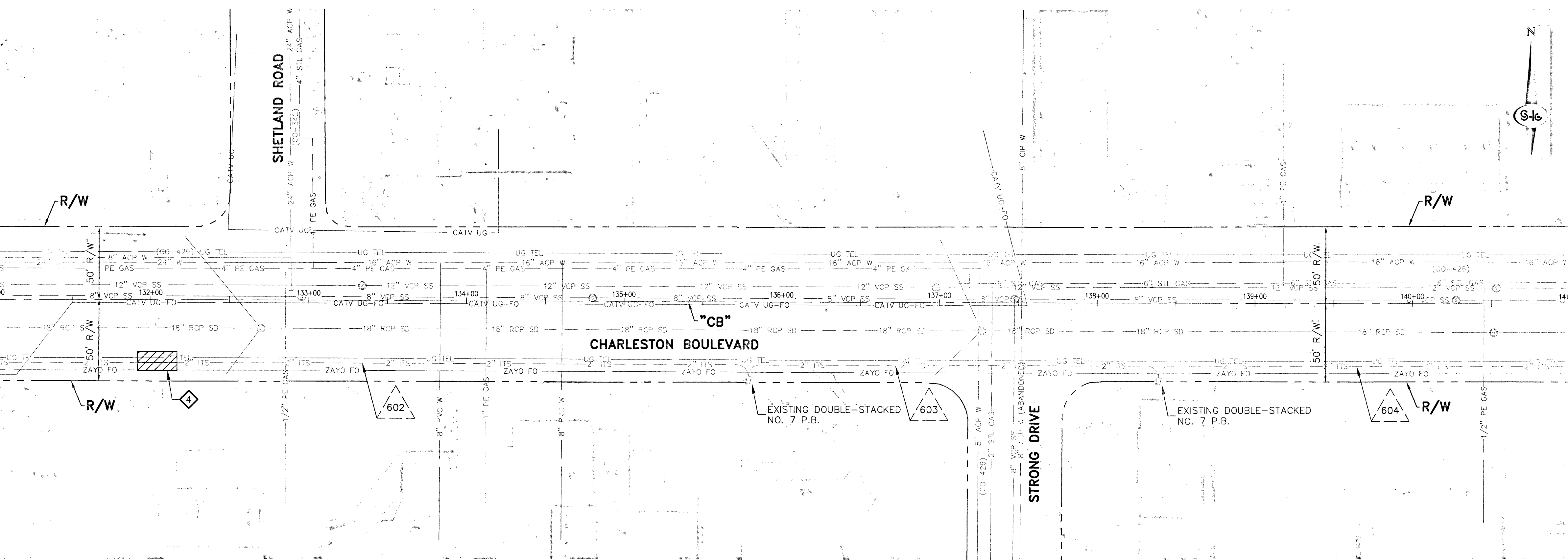
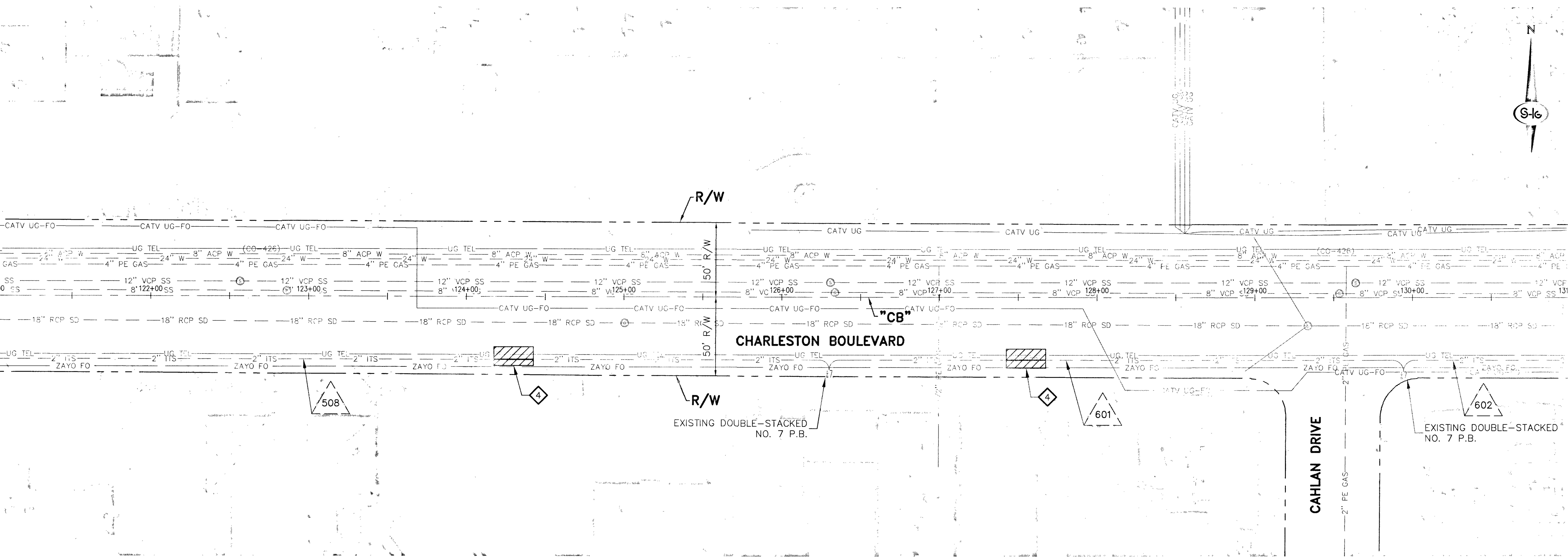


2705 S. JENNIFER STREET #218, LAS VEGAS, NV 89115
 PHONE (702) 364-5300 FAX (702) 364-5309

SCALE	DRAWING NO.
HORIZ: AS SHOWN	IC-05
VERT: AS SHOWN	
FIELD BOOK	SHT. 8 OF 15
	L19-00102
	102V7664

MATCHLINE "CB" 121+00.00 SEE SHEET IC-05

MATCHLINE "CB" 131+00.00 SEE ABOVE RIGHT



- ### CONSTRUCTION NOTES
1. INSTALL P30 PULL BOX (USDCCA STD. DWG NOS. 761 & 763)
 2. INSTALL TYPE 200 SPLICE VAULT (USDCCA STD. DWG NOS. 762 & 763)
 3. REMOVE EXISTING PULL BOX
 4. REPAIR BROKEN CONDUIT (SEE DETAIL 1, DRAWING IC-12 FOR PAVEMENT PATCH)
 5. REPAIR BROKEN CONDUIT (SEE DETAIL 2, DRAWING IC-12 FOR PAVEMENT PATCH)
 6. INTERCEPT AND EXTEND EXISTING CONDUIT TO PULL BOX
 7. INSTALL OPTICOM GPS EVP ON TRAFFIC SIGNAL POLE. ROUTE CABLES/CONDUCTORS THROUGH EXISTING TRAFFIC SIGNAL CONDUIT TO CABINET. INSTALL OPTICOM GPS EVP CABINET EQUIPMENT IN EXISTING RACKS
 8. INSTALL CCTV CAMERA AND EXTENSION ON POLE. ROUTE CABLES/CONDUCTORS THROUGH EXISTING TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. INSTALL CONTROL UNIT AND ENCODER IN CONTROLLER CABINET WITH ALL ASSOCIATED CABLES AND CONDUCTORS
 9. INSTALL TRAFFICAST DSRC AND BLUETOOTH RSU ON MAST ARM. ROUTE CABLES THROUGH MAST ARM, SIGNAL POLE AND EXISTING TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. MOUNT ASSOCIATED CABINET EQUIPMENT IN EXISTING CONTROLLER CABINET
 10. COIL ADDITIONAL SLACK IN BOTH THE 72-STRAND AND 96-STRAND FIBER OPTIC CABLE (30 FT P30 P.B. AND 120 FT TYPE 200 S.V.) FOR CITY OF LAS VEGAS FUTURE RELOCATION
 11. DISCONNECT LOOP DETECTION EQUIPMENT AND INSTALL NEW VIDEO DETECTION SYSTEM. ROUTE CABLES/CONDUCTORS THROUGH EXISTING TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. INSTALL NEW VIDEO DETECTION CAMERA ON EACH POLE. SEE EQUIPMENT TABLE ON IC-11
 12. REMOVE AND SALVAGE EXISTING VIDEO DETECTION EQUIPMENT IN TRAFFIC SIGNAL CABINET AND REPLACE WITH NEW VIDEO DETECTION EQUIPMENT. EXISTING VIDEO DETECTION CAMERAS AND CABLES/CONDUCTORS SHALL REMAIN. SEE EQUIPMENT TABLE ON IC-11
 13. INSTALL TYPE 100 PULL BOX (USDCCA STD. DWG NO. 763)

- ### GENERAL NOTES
1. SEE DRAWING G-3 FOR FIBER OPTIC NOTES.
 2. TWO (2) WEEKS PRIOR TO BEGINNING WORK, CONTRACTOR SHALL CALL CITY OF LAS VEGAS TRAFFIC ENGINEERING AT 229-6331 FOR COORDINATION.
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 4. WHERE NEW CONDUIT CROSSES EXISTING WATERLINES OR GAS LINES, PROTECT WATERLINE OR GAS LINE IN PLACE. WHERE NEW CONDUIT IS PARALLEL TO EXISTING WATERLINES, MAINTAIN MINIMUM 3 FEET PARALLEL SEPARATION.
 5. PROTECT IN PLACE EXISTING STORM DRAIN AND SANITARY SEWER MAINS, LATERALS AND MANHOLES AND STORM DRAIN DROP INLETS DURING CONSTRUCTION.
 6. IF EXISTING SIDEWALK AND/OR CURB AND GUTTER IS DAMAGED DURING CONSTRUCTION, CONTRACTOR SHALL REPLACE TO NEAREST EXISTING CONSTRUCTION JOINT.
 7. PROTECT IN PLACE AND ADJUST LVWDV EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVWDV FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

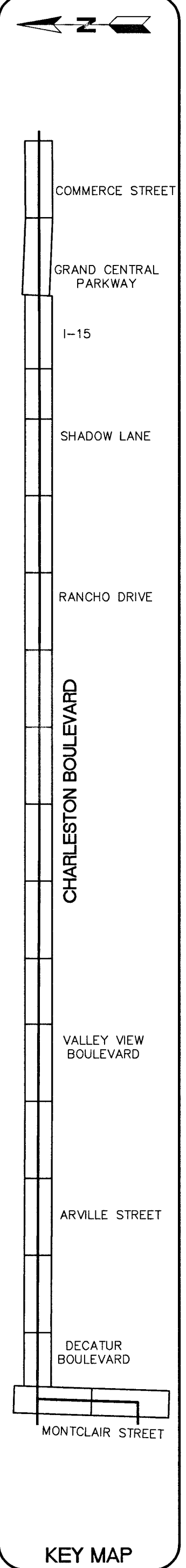
APPROVED FOR CONSTRUCTION

 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136138 FIRST APPROVED DATE: 2-25-14

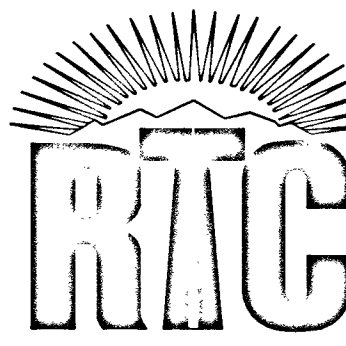
FAST
 Call before you dig
 1-702-432-5300

811
 Call before you dig
 1-800-227-2600

Call before you dig
 1-702-227-2929



REV. NO.	DATE	DESCRIPTION	APPROVED

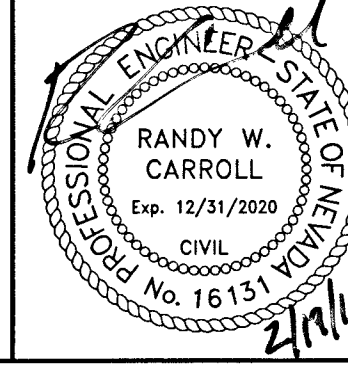


CHARLESTON BOULEVARD ITS INFRASTRUCTURE

FIBER OPTIC SYSTEM PLAN

"CB" 121+00.00 TO "CB" 141+00.00

REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA



PROJECT No: TSC1802
 DESIGNED BY: JAS
 APPROVED BY: JAS

DRAWN BY: JAS
 CHECKED BY: JSR

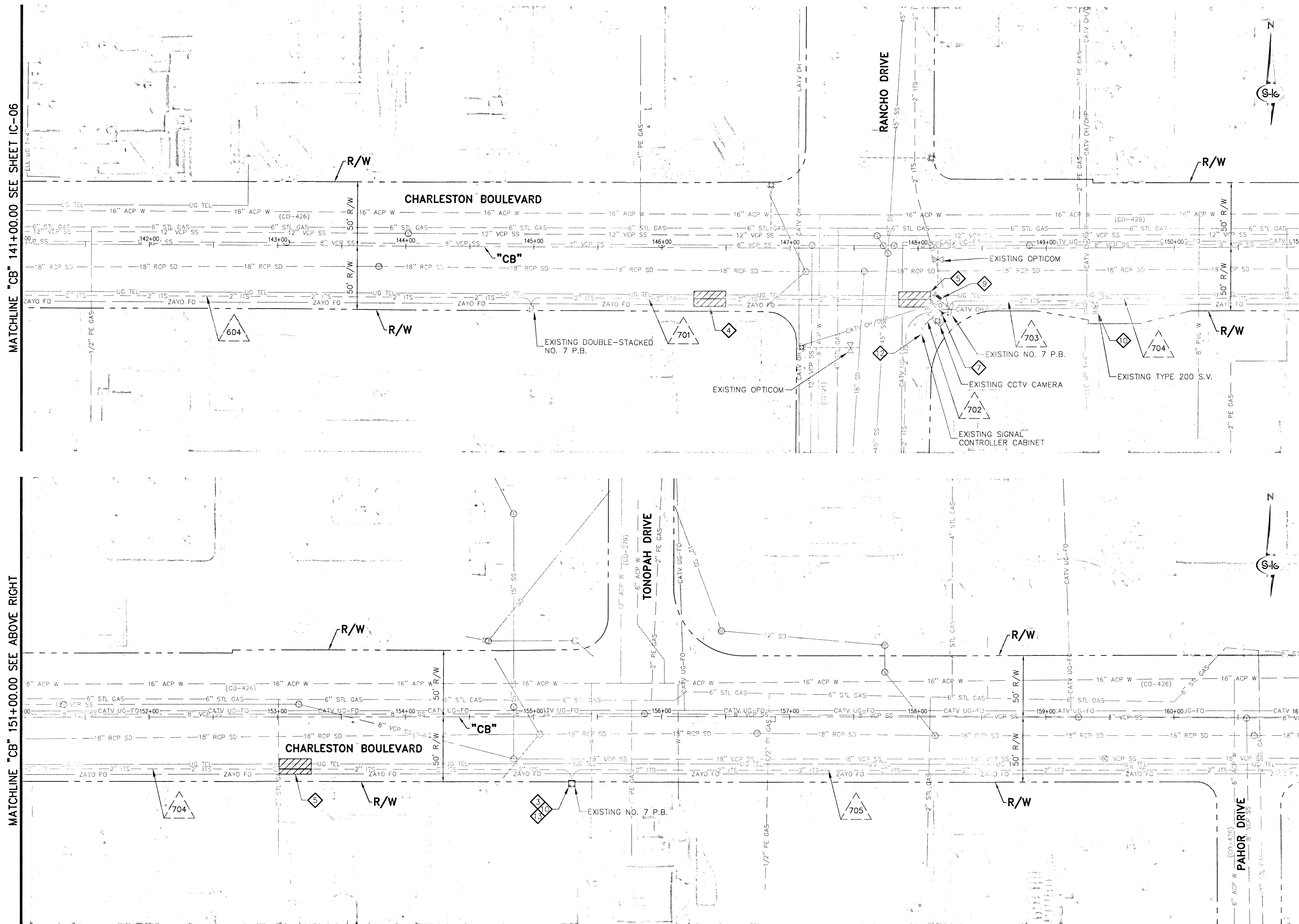
SLATER HANIFAN GROUP
 2748 S. ARVILLE STREET, SUITE 201, LAS VEGAS, NV 89118
 PHONE (702) 264-5300 FAX (702) 264-5399

SCALE
 HORIZ: AS SHOWN
 VERT: AS SHOWN
 FIELD BOOK

DRAWING NO.
IC-06
 SHT. 9 OF 15
 219-00102
 107V 7664

MATCHLINE "CB" 141+00.00 SEE SHEET IC-06

MATCHLINE "CB" 151+00.00 SEE ABOVE RIGHT



MATCHLINE "CB" 151+00.00 SEE BELOW LEFT

MATCHLINE "CB" 161+00.00 SEE SHEET IC-08

CONSTRUCTION NOTES

1. INSTALL P30 PULL BOX (USDCCA STD. DWG NOS. 761 & 763)
2. INSTALL TYPE 200 SPLICE VAULT (USDCCA STD. DWG NOS. 762 & 763)
3. REMOVE EXISTING PULL BOX
4. REPAIR BROKEN CONDUIT (SEE DETAIL 1, DRAWING IC-12 FOR PAVEMENT PATCH)
5. REPAIR BROKEN CONDUIT (SEE DETAIL 2, DRAWING IC-12 FOR PAVEMENT PATCH)
6. INTERCEPT AND EXTEND EXISTING CONDUIT TO PULL BOX
7. INSTALL OPTICOM GPS EVP ON TRAFFIC SIGNAL POLE. ROUTE CABLES/CONDUCTORS THROUGH EXISTING TRAFFIC SIGNAL CONDUIT TO CABINET. INSTALL OPTICOM GPS EVP CABINET EQUIPMENT IN EXISTING RACKS
8. INSTALL CCTV CAMERA AND EXTENSION ON POLE. ROUTE CABLES/CONDUCTORS THROUGH EXISTING TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. INSTALL CONTROL UNIT AND ENCODER IN CONTROLLER CABINET WITH ALL ASSOCIATED CABLES AND CONDUCTORS
9. INSTALL TRAFFICAST DSRC AND BLUETOOTH RSU ON MAST ARM. ROUTE CABLES THROUGH MAST ARM, SIGNAL POLE AND EXISTING TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. MOUNT ASSOCIATED CABINET EQUIPMENT IN EXISTING CONTROLLER CABINET
10. COIL ADDITIONAL SLACK IN BOTH THE 72-STRAND AND 96-STRAND FIBER OPTIC CABLE (30 FT P30 P.B. AND 120 FT TYPE 200 S.V.) FOR CITY OF LAS VEGAS FUTURE RELOCATION
11. DISCONNECT LOOP DETECTION EQUIPMENT AND INSTALL NEW VIDEO DETECTION SYSTEM. ROUTE CABLES/CONDUCTORS THROUGH EXISTING TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. INSTALL NEW VIDEO DETECTION CAMERA ON EACH POLE. SEE EQUIPMENT TABLE ON IC-11
12. REMOVE AND SALVAGE EXISTING VIDEO DETECTION EQUIPMENT IN TRAFFIC SIGNAL CABINET AND REPLACE WITH NEW VIDEO DETECTION EQUIPMENT. EXISTING VIDEO DETECTION CAMERAS AND CABLES/CONDUCTORS SHALL REMAIN. SEE EQUIPMENT TABLE ON IC-11
13. INSTALL TYPE 100 PULL BOX (USDCCA STD. DWG NO. 763)

GENERAL NOTES

1. SEE DRAWING G-3 FOR FIBER OPTIC NOTES.
2. TWO (2) WEEKS PRIOR TO BEGINNING WORK, CONTRACTOR SHALL CALL CITY OF LAS VEGAS TRAFFIC ENGINEERING AT 229-6331 FOR COORDINATION.
3. THE UTILITY LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. FOR ACTUAL FIELD LOCATIONS, CALL 1-800-227-2600.
4. WHERE NEW CONDUIT CROSSES EXISTING WATERLINES OR GAS LINES, PROTECT WATERLINE OR GAS LINE IN PLACE. WHERE NEW CONDUIT IS PARALLEL TO EXISTING WATERLINES, MAINTAIN MINIMUM 3 FEET PARALLEL SEPARATION.
5. PROTECT IN PLACE EXISTING STORM DRAIN AND SANITARY SEWER MAINS, LATERALS AND MANHOLES AND STORM DRAIN DROP INLETS DURING CONSTRUCTION.
6. IF EXISTING SIDEWALK AND/OR CURB AND GUTTER IS DAMAGED DURING CONSTRUCTION, CONTRACTOR SHALL REPLACE TO NEAREST EXISTING CONSTRUCTION JOINT.
7. PROTECT IN PLACE AND ADJUST LVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

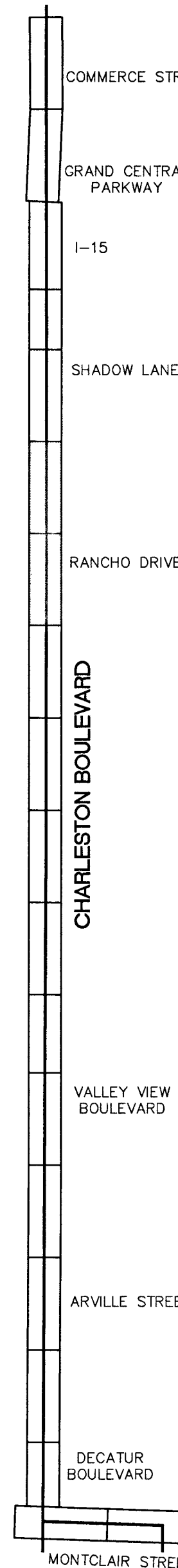
APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District Engineering Services
PROJECT NO. 136138 FIRST APPROVED DATE: 2-25-19

SCALE 0 40 80 FEET



KEY MAP



CHARLESTON BOULEVARD ITS INFRASTRUCTURE

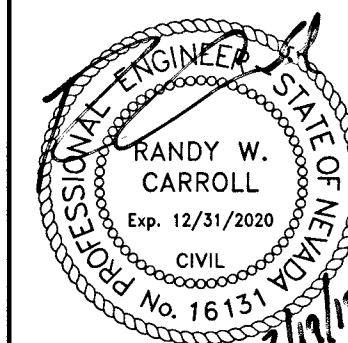


CHARLESTON BOULEVARD ITS INFRASTRUCTURE

FIBER OPTIC SYSTEM PLAN

"CB" 141+00.00 TO "CB" 161+00.00

REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA



PROJECT No: TSC1802 DRAWN BY: JAS
DESIGNED BY: JAS CHECKED BY: JSR
APPROVED BY:

TRANSCORE

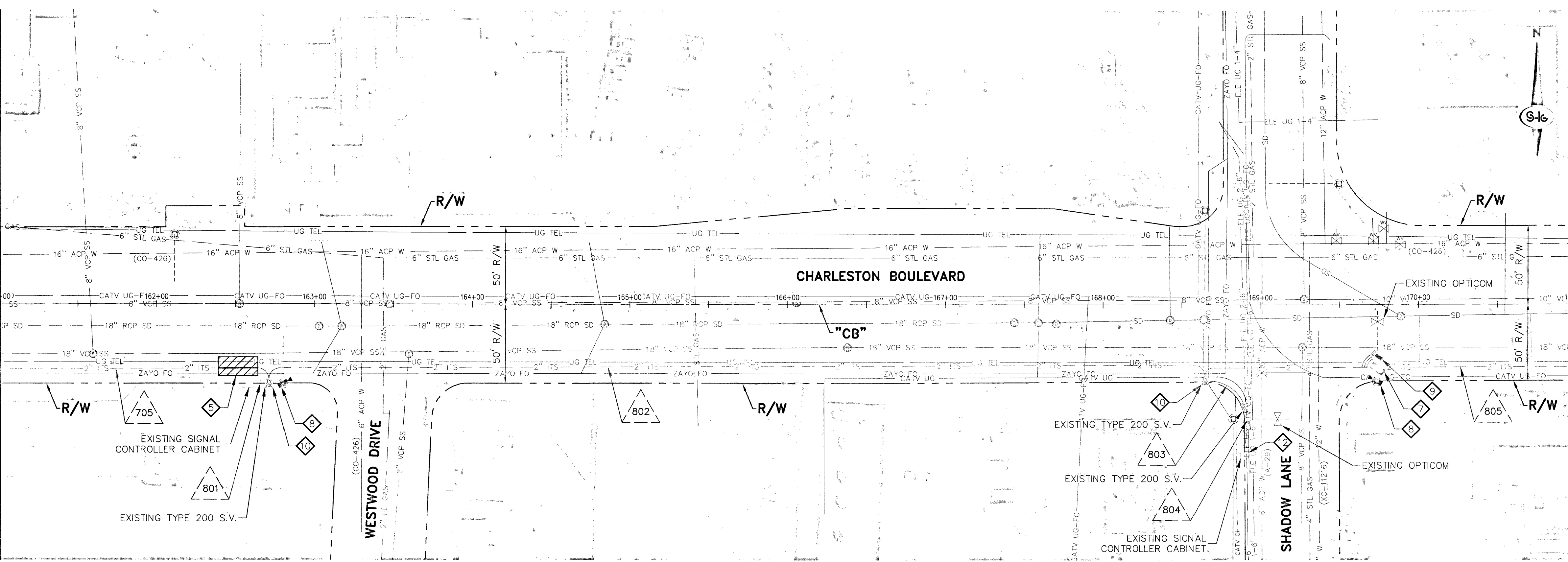
SLATER HANIFAN GROUP
5740 S. ARVILLE STREET, SUITE 200, LAS VEGAS, NV 89119
PHONE (702) 284-5300 FAX (702) 284-5300

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.
IC-07
SHT. 10 OF 15
19-00102
107V7664

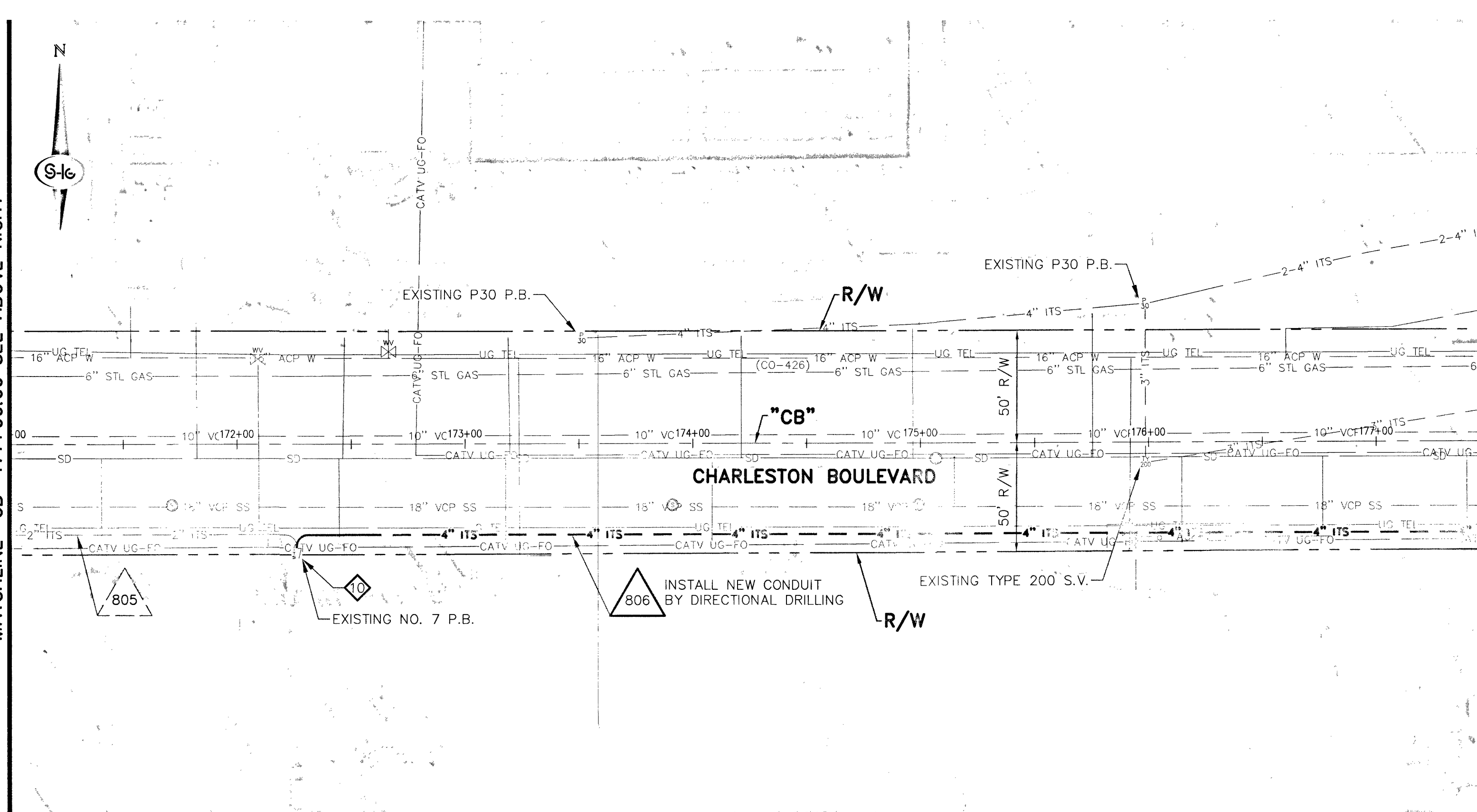
REV. NO.	DATE	DESCRIPTION	APPROVED

MATCHLINE "CB" 161+00.00 SEE SHEET IC-07



MATCHLINE "CB" 171+00.00 SEE SHEET IC-08

MATCHLINE "CB" 171+00.00 SEE ABOVE RIGHT

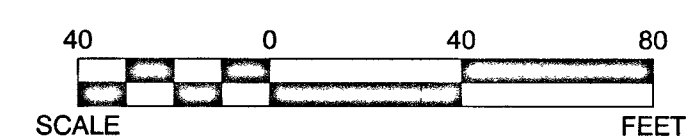


MATCHLINE "CB" 177+50.00 SEE SHEET IC-09

- ### CONSTRUCTION NOTES
1. INSTALL P30 PULL BOX (USDCCA STD. DWG NOS. 761 & 763)
 2. INSTALL TYPE 200 SPLICE VAULT (USDCCA STD. DWG NOS. 762 & 763)
 3. REMOVE EXISTING PULL BOX
 4. REPAIR BROKEN CONDUIT (SEE DETAIL 1, DRAWING IC-12 FOR PAVEMENT PATCH)
 5. REPAIR BROKEN CONDUIT (SEE DETAIL 2, DRAWING IC-12 FOR PAVEMENT PATCH)
 6. INTERCEPT AND EXTEND EXISTING CONDUIT TO PULL BOX
 7. INSTALL OPTICOM GPS EVP ON TRAFFIC SIGNAL POLE. ROUTE CABLES/CONDUCTORS THROUGH EXISTING TRAFFIC SIGNAL CONDUIT TO CABINET. INSTALL OPTICOM GPS EVP CABINET EQUIPMENT IN EXISTING RACKS
 8. INSTALL CCTV CAMERA AND EXTENSION ON POLE. ROUTE CABLES/CONDUCTORS THROUGH EXISTING TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. INSTALL CONTROL UNIT AND ENCODER IN CONTROLLER CABINET WITH ALL ASSOCIATED CABLES AND CONDUCTORS
 9. INSTALL TRAFFICCAST DSRC AND BLUETOOTH RSU ON MAST ARM. ROUTE CABLES THROUGH MAST ARM, SIGNAL POLE AND EXISTING TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. MOUNT ASSOCIATED CABINET EQUIPMENT IN EXISTING CONTROLLER CABINET
 10. COIL ADDITIONAL SLACK IN BOTH THE 72-STRAND AND 96-STRAND FIBER OPTIC CABLE (30 FT P30 P.B. AND 120 FT TYPE 200 S.V.) FOR CITY OF LAS VEGAS FUTURE RELOCATION
 11. DISCONNECT LOOP DETECTION EQUIPMENT AND INSTALL NEW VIDEO DETECTION SYSTEM. ROUTE CABLES/CONDUCTORS THROUGH EXISTING TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. INSTALL NEW VIDEO DETECTION CAMERA ON EACH POLE. SEE EQUIPMENT TABLE ON IC-11
 12. REMOVE AND SALVAGE EXISTING VIDEO DETECTION EQUIPMENT IN TRAFFIC SIGNAL CABINET AND REPLACE WITH NEW VIDEO DETECTION EQUIPMENT. EXISTING VIDEO DETECTION CAMERAS AND CABLES/CONDUCTORS SHALL REMAIN. SEE EQUIPMENT TABLE ON IC-11
 13. INSTALL TYPE 100 PULL BOX (USDCCA STD. DWG NO. 763)

- ### GENERAL NOTES
1. SEE DRAWING G-3 FOR FIBER OPTIC NOTES.
 2. TWO (2) WEEKS PRIOR TO BEGINNING WORK, CONTRACTOR SHALL CALL CITY OF LAS VEGAS TRAFFIC ENGINEERING AT 229-6331 FOR COORDINATION.
 3. THE UTILITY LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. FOR ACTUAL FIELD LOCATIONS, CALL 1-800-227-2600.
 4. WHERE NEW CONDUIT CROSSES EXISTING WATERLINES OR GAS LINES, PROTECT WATERLINE OR GAS LINE IN PLACE. WHERE NEW CONDUIT IS PARALLEL TO EXISTING WATERLINES, MAINTAIN MINIMUM 3 FEET PARALLEL SEPARATION.
 5. PROTECT IN PLACE EXISTING STORM DRAIN AND SANITARY SEWER MAINS, LATERALS AND MANHOLES AND STORM DRAIN DROP INLETS DURING CONSTRUCTION.
 6. IF EXISTING SIDEWALK AND/OR CURB AND GUTTER IS DAMAGED DURING CONSTRUCTION, CONTRACTOR SHALL REPLACE TO NEAREST EXISTING CONSTRUCTION JOINT.
 7. PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

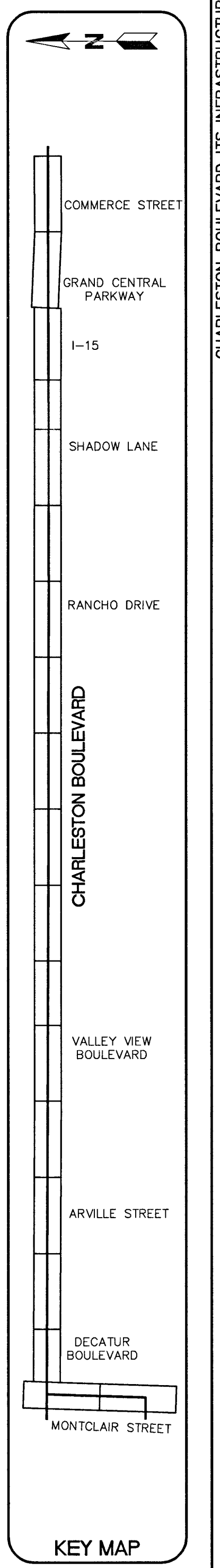
APPROVED FOR CONSTRUCTION
[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136138 FIRST APPROVED DATE 2/25/20



Call before you Dig
UnderGround.
1-702-432-5300

Call before you Dig
811
1-800-227-2600

Call before you Dig
1-702-227-2929



REV. NO.	DATE	DESCRIPTION	APPROVED

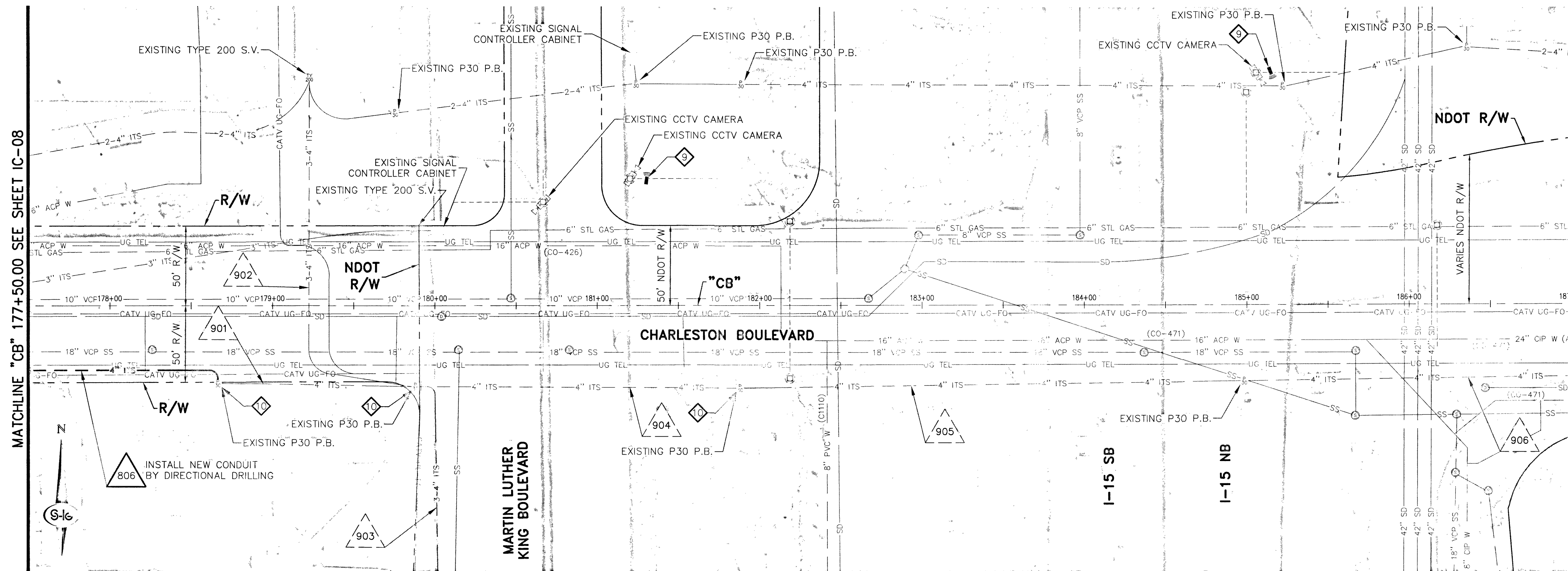
CHARLESTON BOULEVARD ITS INFRASTRUCTURE
FIBER OPTIC SYSTEM PLAN
"CB" 161+00.00 TO "CB" 177+50.00
REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA

PROJECT No: TSC1802 DRAWN BY: JAS
DESIGNED BY: JAS CHECKED BY: JSR
APPROVED BY: _____

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

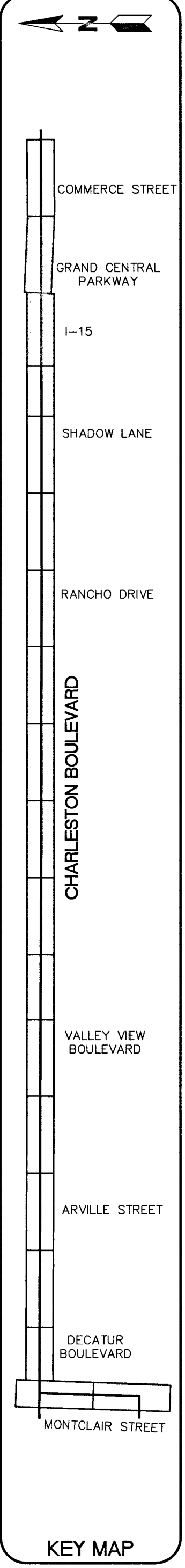
SLATER HANIFAN GROUP
a Westwood team
2740 S. ARVILLE STREET, SUITE 100, LAS VEGAS, NV 89119
PHONE (702) 264-5300 FAX (702) 264-5309

DRAWING NO.
IC-08
SHT. 11 OF 15
1/9-00/02
107V7864

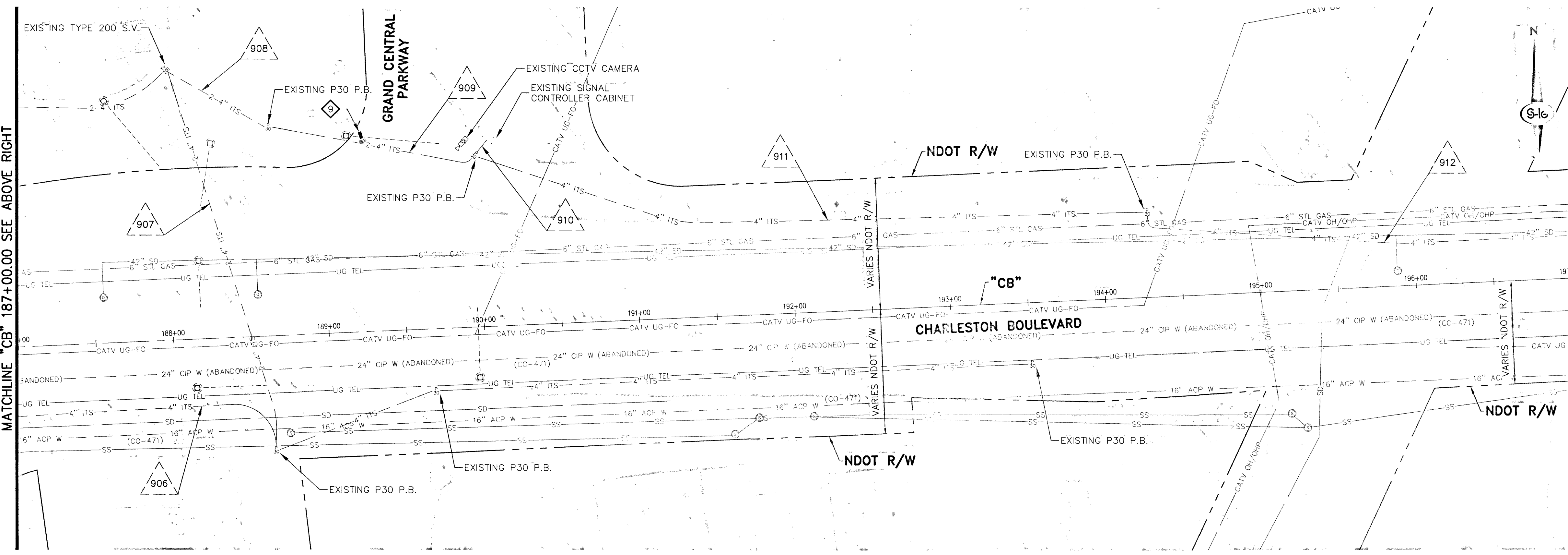


MATCHLINE "CB" 187+00.00 SEE BELOW LEFT

- ### CONSTRUCTION NOTES
- INSTALL P30 PULL BOX (USDCCA STD. DWG NOS. 761 & 763)
 - INSTALL TYPE 200 SPLICE VAULT (USDCCA STD. DWG NOS. 762 & 763)
 - REMOVE EXISTING PULL BOX
 - REPAIR BROKEN CONDUIT (SEE DETAIL 1, DRAWING IC-12 FOR PAVEMENT PATCH)
 - REPAIR BROKEN CONDUIT (SEE DETAIL 2, DRAWING IC-12 FOR PAVEMENT PATCH)
 - INTERCEPT AND EXTEND EXISTING CONDUIT TO PULL BOX
 - INSTALL OPTICOM GPS EVP ON TRAFFIC SIGNAL POLE. ROUTE CABLES/CONDUCTORS THROUGH EXISTING TRAFFIC SIGNAL CONDUIT TO CABINET. INSTALL OPTICOM GPS EVP CABINET EQUIPMENT IN EXISTING RACKS
 - INSTALL CCTV CAMERA AND EXTENSION ON POLE. ROUTE CABLES/CONDUCTORS THROUGH EXISTING TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. INSTALL CONTROL UNIT AND ENCODER IN CONTROLLER CABINET WITH ALL ASSOCIATED CABLES AND CONDUCTORS
 - INSTALL TRAFFICAST DSRC AND BLUETOOTH RSU ON MAST ARM. ROUTE CABLES THROUGH MAST ARM, SIGNAL POLE AND EXISTING TRAFFIC SIGNAL CONDUIT TO CONTROLLER CABINET. MOUNT ASSOCIATED CABINET EQUIPMENT IN EXISTING CONTROLLER CABINET
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 - REMOVE AND SALVAGE EXISTING VIDEO DETECTION EQUIPMENT IN TRAFFIC SIGNAL CABINET AND REPLACE WITH NEW VIDEO DETECTION EQUIPMENT. EXISTING VIDEO DETECTION CAMERAS AND CABLES/CONDUCTORS SHALL REMAIN. SEE EQUIPMENT TABLE ON IC-11
 - INSTALL TYPE 100 PULL BOX (USDCCA STD. DWG NO. 763)



KEY MAP



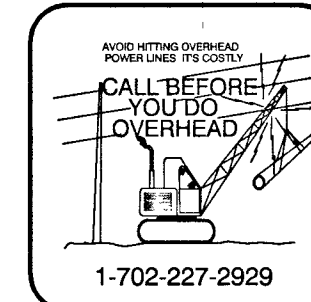
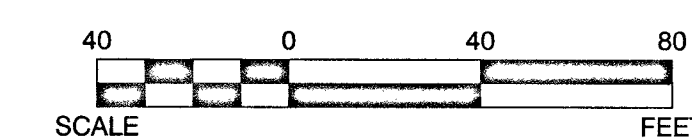
MATCHLINE "CB" 187+00.00 SEE ABOVE RIGHT

MATCHLINE "CB" 197+00.00 SEE SHEET IC-10

- ### GENERAL NOTES
- SEE DRAWING G-3 FOR FIBER OPTIC NOTES.
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 - WHERE NEW CONDUIT CROSSES EXISTING WATERLINES OR GAS LINES, PROTECT WATERLINE OR GAS LINE IN PLACE. WHERE NEW CONDUIT IS PARALLEL TO EXISTING WATERLINES, MAINTAIN MINIMUM 3 FEET PARALLEL SEPARATION.
 - PROTECT IN PLACE EXISTING STORM DRAIN AND SANITARY SEWER MAINS, LATERALS AND MANHOLES AND STORM DRAIN DROP INLETS DURING CONSTRUCTION.
 - IF EXISTING SIDEWALK AND/OR CURB AND GUTTER IS DAMAGED DURING CONSTRUCTION, CONTRACTOR SHALL REPLACE TO NEAREST EXISTING CONSTRUCTION JOINT.
 - PROTECT IN PLACE AND ADJUST LVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

APPROVED FOR CONSTRUCTION

 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136138 FIRST APPROVED DATE: 2/25/19



REV. NO.	DATE	DESCRIPTION	APPROVED

CHARLESTON BOULEVARD ITS INFRASTRUCTURE

FIBER OPTIC SYSTEM PLAN

"CB" 177+50.00 TO "CB" 197+00.00

REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA

PROJECT No: TSC1802

DESIGNED BY: JAS

APPROVED BY: _____

DRAWN BY: JAS

CHECKED BY: JSR

SCALE

HORIZ: AS SHOWN

VERT: AS SHOWN

FIELD BOOK

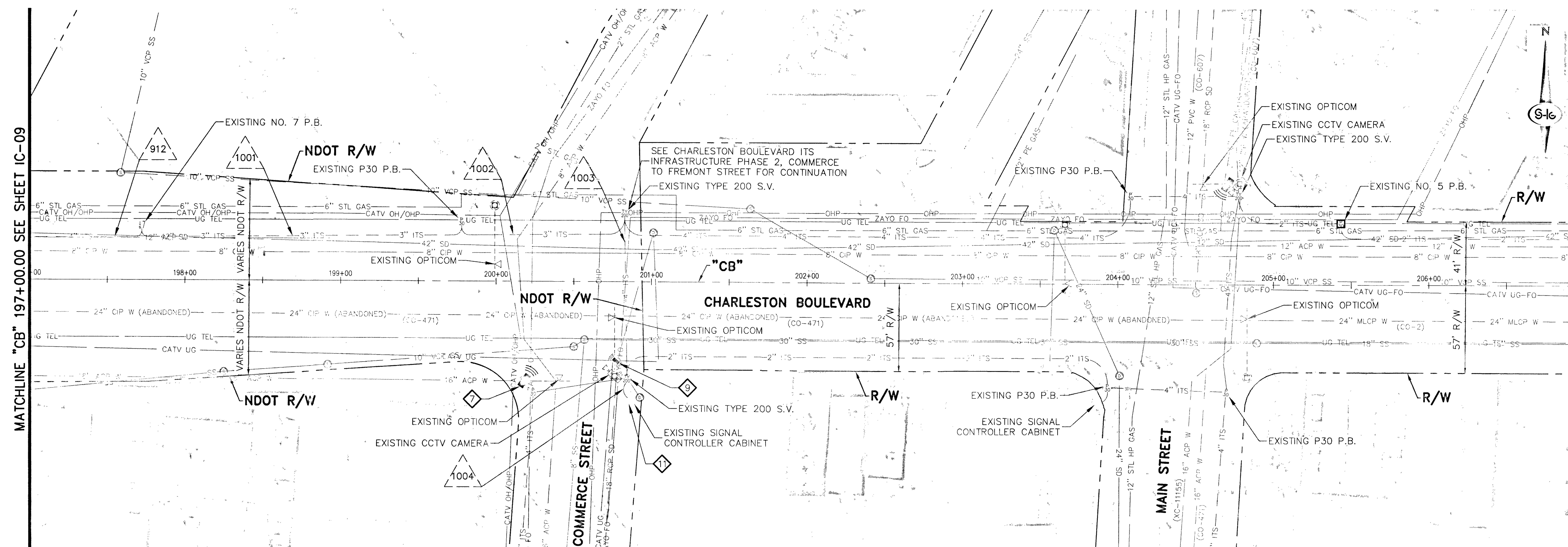
DRAWING NO.

IC-09

SHT. 12 OF 15

179-00102

1077664



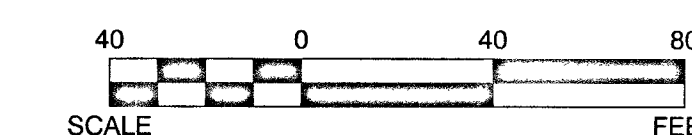
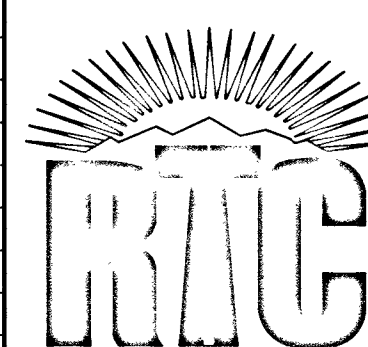
- ## CONSTRUCTION NOTES
- 1 INSTALL P30 PULL BOX
(USDCCA STD. DWG NOS. 761 & 763)
 - 2 INSTALL TYPE 200 SPLICE VAULT
(USDCCA STD. DWG NOS. 762 & 763)
 - 3 REMOVE EXISTING PULL BOX
 - 4 REPAIR BROKEN CONDUIT (SEE DETAIL 1,
DRAWING IC-12 FOR PAVEMENT PATCH)
 - 5 REPAIR BROKEN CONDUIT (SEE DETAIL 2,
DRAWING IC-12 FOR PAVEMENT PATCH)
 - 6 INTERCEPT AND EXTEND EXISTING
CONDUIT TO PULL BOX
 - 7 INSTALL OPTICOM GPS EVP ON TRAFFIC
SIGNAL POLE. ROUTE CABLES/CONDUCTORS
THROUGH EXISTING TRAFFIC SIGNAL CONDUIT
TO CABINET. INSTALL OPTICOM GPS EVP
CABINET EQUIPMENT IN EXISTING RACKS
 - 8 INSTALL CCTV CAMERA AND EXTENSION ON
POLE. ROUTE CABLES/CONDUCTORS THROUGH
EXISTING TRAFFIC SIGNAL CONDUIT TO
CONTROLLER CABINET. INSTALL CONTROL UNIT
AND ENCODER IN CONTROLLER CABINET WITH
ALL ASSOCIATED CABLES AND CONDUCTORS
 - 9 INSTALL TRAFFICSTAD DSRC AND BLUETOOTH
RSU ON MAST ARM. ROUTE CABLES THROUGH
MAST ARM, SIGNAL POLE AND EXISTING
TRAFFIC SIGNAL CONDUIT TO CONTROLLER
CABINET. MOUNT ASSOCIATED CABINET
EQUIPMENT IN EXISTING CONTROLLER CABINET
 - 10 COIL ADDITIONAL SLAG IN BOTH THE
72-STRAND AND 96-STRAND FIBER OPTIC
CABLE (3.0 FT P30 P.B. AND 120 FT FUTURE
200 S.V.) FOR CITY OF LAS VEGAS FUTURE
RELOCATION
 - 11 DISCONNECT LOOP DETECTION EQUIPMENT AND
INSTALL NEW VIDEO DETECTION SYSTEM.
ROUTE CABLES/CONDUCTORS THROUGH
EXISTING TRAFFIC SIGNAL CONDUIT TO
CONTROLLER CABINET. INSTALL NEW VIDEO
DETECTION CAMERA ON EACH POLE. SEE
EQUIPMENT TABLE ON IC-11
 - 12 REMOVE AND SALVAGE EXISTING VIDEO
DETECTION EQUIPMENT IN TRAFFIC SIGNAL
CABINET AND REPLACE WITH NEW VIDEO
DETECTION EQUIPMENT. EXISTING VIDEO
DETECTION CABLES AND
CABLES/CONDUCTORS SHALL REMAIN. SEE
EQUIPMENT TABLE ON IC-11
 - 13 INSTALL TYPE 100 PULL BOX
(USDCCA STD. DWG NO. 763)

- ### GENERAL NOTES
1. SEE DRAWING G-3 FOR FIBER OPTIC NOTES.
 2. THE CITY WILL BE PROVIDING THE NECESSARY WORK. CONTRACTOR SHALL CALL CITY OF LAS VEGAS TRAFFIC ENGINEERING AT 229-6331 FOR COORDINATION.
 3. THE UTILITY LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. FOR ACTUAL FIELD LOCATIONS, CALL THE CITY OF LAS VEGAS.
 4. WHERE NEW CONDUIT CROSSES EXISTING WATERLINE OR GAS LINES, PROTECT WATERLINE OR GAS LINE BY INSTALLING WHERE NECESSARY. WHERE CROSSING EXISTING WATERLINES, MAINTAIN MINIMUM 3 FEET PARALLEL SEPARATION.
 5. PROTECT IN PLACE EXISTING STORM DRAIN AND SANITARY SEWER MAINS, MANHOLES AND MANHOLES AND STORM DRAIN DRAIN INLETS DURING CONSTRUCTION.
 6. WHERE EXISTING SIDEWALK AND/OR CURB AND GUTTER IS DAMAGED DURING CONSTRUCTION, CONTRACTOR SHALL REPLACE TO NEAREST EXISTING SIDEWALK OR CURB JOINT.
 7. PROTECT IN PLACE AND ADJUST LVWMD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

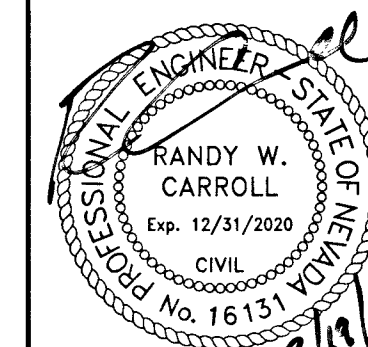
APPROVED FOR CONSTRUCTION



LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136138 FIRST APPROVED DATE: 2-25-19

[illegible]

CHARLESTON BOULEVARD ITS INFRASTRUCTURE
FIBER OPTIC SYSTEM PLAN
"CB" 197+00.00 TO "CB" 207+00.00
REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA



PROJECT No: TSC1802 DRAWN BY: JAS
DESIGNED BY: JAS CHECKED BY: JSR
APPROVED BY _____



SCALE	DRAWING NO.
HORIZ: AS SHOWN	IC-10
VERT: AS SHOWN	
FIELD BOOK	SHT. 13 OF 1
	L19-00102
	1031766

CONDUIT & WIRE SCHEDULE

CONDUIT NO.	FROM	TO	NO.	SIZE (IN)	LENGTH (FT)	FIBER OPTIC CABLE (# OF STRANDS)	CONDUCTOR	REMARKS
101	P30 P.B. (E)	P30 P.B. (E)	1(E)	3(E)	640(E)	72 (E), 96	6 PR #22 (RS) 6 PR #22	
102	P30 P.B. (E)	P30 P.B. (E)	1(E)	3(E)	740(E)	72 (E), 96	6 PR #22 (RS) 6 PR #22	
103	P30 P.B. (E)	TYPE 200 S.V. (E)	1(E)	3(E)	100(E)	72 (E), 96	6 PR #22 (RS) 6 PR #22	
104	TYPE 200 S.V. (E)	P30 P.B. (E)	1(E)	3(E)	295(E)	72 (E), 96	6 PR #22 (RS) 6 PR #22	
105-200 NOT USED								
201	P30 P.B. (E)	P30 P.B. (E)	1(E)	2(E)	290(E)	72 (E), 96	6 PR #22 (RS) 6 PR #22	
202	P30 P.B. (E)	TYPE 200 S.V. (E)	1(E)	4(E)	155(E)	72 (E), 96	6 PR #22 (RS) 6 PR #22	
203	TYPE 200 S.V. (E)	CONTROLLER CABINET (E)	1(E)	2(E)	10(E)	12 CDCA (E)	6 PR #22 (RS) 6 PR #22	
204	TYPE 200 S.V. (E)	NO. 7 P.B. (E)	1(E)	2(E)	780(E)	96	2 - 25 PR #22 (RS) 6 PR #22	
205	NO. 7 P.B. (E)	NO. 9 P.B. (E)	1(E)	2(E)	600(E)	96	25 PR #22 (RS) 6 PR #22	INSTALL ENCLOSURE AND PERFORM FIBER OPTIC SPLICE PER FAST PROVIDED SPLICE DIAGRAM
206-300 NOT USED								
301	NO. 9 P.B. (E)	CONTROLLER CABINET (E)	1(E)	2(E)	10(E)	12 CDCA	2 - 25 PR #22 (RS) 2 - 6 PR #22	
302	NO. 9 P.B. (E)	TYPE 200 S.V.	1(E)	2(E)	360(E)	96	25 PR #22 (RS) 6 PR #22	INSTALL ENCLOSURE AND PERFORM FIBER OPTIC SPLICE PER FAST PROVIDED SPLICE DIAGRAM
303	TYPE 200 S.V.	CONTROLLER CABINET (E)	1	2	10	12 CDCA	6 PR #22	RETROFIT EXISTING CONTROLLER CABINET FOUNDATION FOR NEW CONDUIT INSTALLATION
304	NO. 9 P.B. (E)	NO. 7 P.B. (E)	1(E)	2(E)	760(E)	96	25 PR #22 (RS) 6 PR #22	
305	NO. 7 P.B. (E)	NO. 9 P.B. (E)	1(E)	2(E)	690(E)	96	25 PR #22 (RS) 6 PR #22	INSTALL ENCLOSURE AND PERFORM FIBER OPTIC SPLICE PER FAST PROVIDED SPLICE DIAGRAM
306	NO. 9 P.B. (E)	CONTROLLER CABINET (E)	1(E)	2(E)	10(E)	12 CDCA	2 - 25 PR #22 (RS) 2 - 6 PR #22	
307	NO. 9 P.B. (E)	NO. 7 P.B. (E)	1(E)	2(E)	430(E)	96	25 PR #22 (RS) 6 PR #22	
308-400 NOT USED								
401	NO. 7 P.B. (E)	TYPE 200 S.V. (E)	1(E)	2(E)	415(E)	96	25 PR #22 (RS), LOOP (E) 6 PR #22	INSTALL ENCLOSURE AND PERFORM FIBER OPTIC SPLICE PER FAST PROVIDED SPLICE DIAGRAM
402	TYPE 200 S.V. (E)	P30 P.B. (E)	1(E)	4(E)	145(E)	12 CDCA	2 - 25 PR #22 (RS) 2 - 6 PR #22	
403	P30 P.B. (E)	CONTROLLER CABINET (E)	1(E)	2(E)	25(E)	12 CDCA	2 - 25 PR #22 (RS) 2 - 6 PR #22	
404	TYPE 200 S.V. (E)	DOUBLE-STACKED NO. 7 P.B. (E)	1(E)	2(E)	560(E)	96	25 PR #22 (RS) 6 PR #22	
405	DOUBLE-STACKED NO. 7 P.B. (E)	DOUBLE-STACKED NO. 7 P.B. (E)	1(E)	2(E)	450(E)	96	25 PR #22 (RS) 6 PR #22	
406	DOUBLE-STACKED NO. 7 P.B. (E)	DOUBLE-STACKED NO. 7 P.B. (E)	1(E)	2(E)	175(E)	96	25 PR #22 (RS) 6 PR #22	
407-500 NOT USED								
501	DOUBLE-STACKED NO. 7 P.B. (E)	DOUBLE-STACKED NO. 7 P.B. (E)	1(E)	2(E)	405(E)	96	25 PR #22 (RS) 6 PR #22	
502	DOUBLE-STACKED NO. 7 P.B. (E)	DOUBLE-STACKED NO. 7 P.B. (E)	1(E)	2(E)	280(E)	96	25 PR #22 (RS) 6 PR #22	
503	DOUBLE-STACKED NO. 7 P.B. (E)	DOUBLE-STACKED NO. 7 P.B. (E)	1(E)	2(E)	460(E)	96	25 PR #22 (RS) 6 PR #22	
504	DOUBLE-STACKED NO. 7 P.B. (E)	DOUBLE-STACKED NO. 7 P.B. (E)	1(E)	2(E)	375(E)	96	25 PR #22 (RS) 6 PR #22	
505	NO. 7 P.B. (E)	TYPE 200 S.V. (E)	1(E)	2(E)	15(E)	2 - 96	25 PR #22 (RS) 6 PR #22	INSTALL ENCLOSURE AND PERFORM FIBER OPTIC SPLICE PER FAST PROVIDED SPLICE DIAGRAM
506	TYPE 200 S.V. (E)	CONTROLLER CABINET (E)	1(E)	2(E)	10(E)	12 CDCA	2 - 25 PR #22 (RS) 2 - 6 PR #22	
507	TYPE 200 S.V. (E)	DOUBLE-STACKED NO. 7 P.B. (E)	1(E)	2(E)	440(E)	96	25 PR #22 (RS) 6 PR #22	
508	DOUBLE-STACKED NO. 7 P.B. (E)	DOUBLE-STACKED NO. 7 P.B. (E)	1(E)	2(E)	545(E)	96	25 PR #22 (RS) 6 PR #22	
509-600 NOT USED								
601	DOUBLE-STACKED NO. 7 P.B. (E)	DOUBLE-STACKED NO. 7 P.B. (E)	1(E)	2(E)	375(E)	96	25 PR #22 (RS) 6 PR #22	
602	DOUBLE-STACKED NO. 7 P.B. (E)	DOUBLE-STACKED NO. 7 P.B. (E)	1(E)	2(E)	600(E)	96	25 PR #22 (RS) 6 PR #22	
603	DOUBLE-STACKED NO. 7 P.B. (E)	DOUBLE-STACKED NO. 7 P.B. (E)	1(E)	2(E)	270(E)	96	25 PR #22 (RS) 6 PR #22	
604	DOUBLE-STACKED NO. 7 P.B. (E)	DOUBLE-STACKED NO. 7 P.B. (E)	1(E)	2(E)	670(E)	96	25 PR #22 (RS) 6 PR #22	
605-700 NOT USED								
701	DOUBLE-STACKED NO. 7 P.B. (E)	NO. 7 P.B. (E)	1(E)	2(E)	330(E)	96	25 PR #22 (RS) 6 PR #22	
702	NO. 7 P.B. (E)	CONTROLLER CABINET (E)	1(E)	3(E)	15(E)	12 CDCA (E)	2 - 25 PR #22 (RS) 12 CDCA	
703	NO. 7 P.B. (E)	TYPE 200 S.V. (E)	1(E)	2(E)	130(E)	2 - 72 (E) 12 CDCA (E) 96, 12 CDCA	25 PR #22 (RS) 6 PR #22	INSTALL ENCLOSURE AND PERFORM FIBER OPTIC SPLICE PER FAST PROVIDED SPLICE DIAGRAM
704	TYPE 200 S.V. (E)	TYPE 100 P.B.	1(E)	2(E)	600(E)	96, 72	25 PR #22 (RS) 6 PR #22	COIL 72-STRAND FIBER OPTIC CABLE FOR FUTURE CLV EXTENSION
705	TYPE 100 P.B.	TYPE 200 S.V. (E)	1(E)	2(E)	755(E)	96, 72	25 PR #22 (RS) 6 PR #22	INSTALL ENCLOSURE AND PERFORM FIBER OPTIC SPLICE PER FAST PROVIDED SPLICE DIAGRAM
706-800 NOT USED								
801	TYPE 200 S.V. (E)	CONTROLLER CABINET (E)	1(E)	2(E)	10(E)	12 CDCA	2 - 25 PR #22 (RS) 2 - 6 PR #22	
802	TYPE 200 S.V. (E)	TYPE 200 S.V. (E)	1(E)	2(E)	600(E)	96, 72	25 PR #22 (RS) 6 PR #22	INSTALL ENCLOSURE AND PERFORM FIBER OPTIC SPLICE PER FAST PROVIDED SPLICE DIAGRAM

CONDUIT & WIRE SCHEDULE

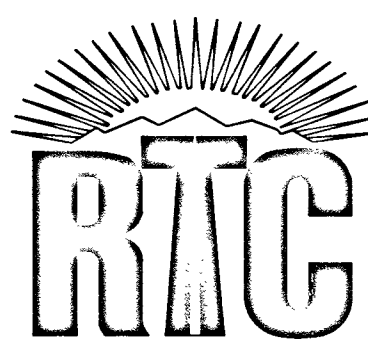
CONDUIT NO.	FROM	TO	NO.	SIZE (IN)	LENGTH (FT)	FIBER OPTIC CABLE (# OF STRANDS)	CONDUCTOR	REMARKS
803	TYPE 200 S.V. (E)	TYPE 200 S.V. (E)	1(E)	2(E)	20(E)	12 CDCA	2 - 25 PR #22 (RS) 2 - 6 PR #22	
804	TYPE 200 S.V. (E)	CONTROLLER CABINET (E)	1(E)	2(E)	25(E)	12 CDCA	2 - 25 PR #22 (RS) 2 - 6 PR #22	
805	TYPE 200 S.V. (E)	NO. 7 P.B. (E)	1(E)	2(E)	370(E)	96, 72	25 PR #22 (RS) 6 PR #22	
806	NO. 7 P.B. (E)	P30 P.B. (E)	1	4	650	96, 72	6 PR #22	INSTALL NEW CONDUIT BY DIRECTIONAL DRILLING
807-900 NOT USED								
901	P30 P.B. (E)	P30 P.B. (E)	1(E)	4(E)	125(E)	96, 72	6 PR #22	
902	P30 P.B. (E)	TYPE 200 S.V. (E)	3(E)	4(E)	250(E)	72 (E)		
903	P30 P.B. (E)	P30 P.B. (E)	3(E)	4(E)	565(E)	72 (E)		
904	P30 P.B. (E)	P30 P.B. (E)	1(E)	4(E)	210(E)	96, 72	6 PR #22	
905	P30 P.B. (E)	P30 P.B. (E)	1(E)	4(E)	320(E)	96, 72	6 PR #22	
906	P30 P.B. (E)	P30 P.B. (E)	1(E)	4(E)	370(E)	96, 72	6 PR #22	
907	P30 P.B. (E)	TYPE 200 S.V. (E)	2(E)	4(E)	260(E)	72 (E) 96, 72	6 PR #22	
908	TYPE 200 S.V. (E)	P30 P.B. (E)	2(E)	4(E)	80(E)	12 CDCA (E) 96, 72	6 PR #22	
909	P30 P.B. (E)	P30 P.B. (E)	2(E)	4(E)	140(E)	12 CDCA (E) 96, 72	6 PR #22	
910	P30 P.B. (E)	CONTROLLER CABINET (E)	1(E)	4(E)	10(E)	12 CDCA (E)		
911	P30 P.B. (E)	P30 P.B. (E)	1(E)	4(E)	440(E)	96, 72	6 PR #22	
912	P30 P.B. (E)	NO. 7 P.B. (E)	1(E)	4(E)	360(E)	96, 72	6 PR #22	
913-1000 NOT USED								
1001	NO. 7 P.B. (E)	P30 P.B. (E)	1(E)	3(E)	210(E)	96, 72	6 PR #22 (RS) 6 PR #22	
1002	P30 P.B. (E)	TYPE 200 S.V. (E)	1(E)	3(E)	110(E)	96, 72	6 PR #22 (RS) 6 PR #22	INSTALL ENCLOSURE AND PERFORM FIBER OPTIC SPLICE PER FAST PROVIDED SPLICE DIAGRAM. COIL 72-STRAND FIBER OPTIC CABLE FOR FUTURE CLV SPLICE
1003	TYPE 200 S.V. (E)	TYPE 200 S.V. (E)	1(E)	4(E)	110(E)	12 CDCA	25 PR #22 (RS) 6 PR #22	
1004	TYPE 200 S.V. (E)	CONTROLLER CABINET (E)	1(E)	2(E)	10(E)	12 CDCA	25 PR #22 (RS)	

(RS) = REMOVE AND SALVAGE EXISTING
(E) = EXISTING

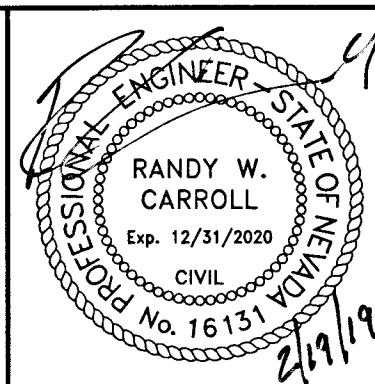
VIDEO DETECTION EQUIPMENT SCHEDULE

INTERSECTION	EDGE2-4PAK	EDGE2-SDLC-IM-PAK	VRACK5-PS	EDGE2-TS2-IM-PAK	EDGE2-1N-PAK
DECATUR BOULEVARD	INSTALL	INSTALL	-	-	-
ESSEX DRIVE	INSTALL	-	INSTALL	INSTALL	-
ARVILLE STREET	-	INSTALL	-	-	INSTALL
HINSON STREET	INSTALL	INSTALL	-	-	-
VALLEY VIEW BOULEVARD	INSTALL	INSTALL	-	-	-
CAMPBELL DRIVE	INSTALL	INSTALL	-	-	-
RANCHO DRIVE	INSTALL	INSTALL	-	-	-
SHADOW LANE	INSTALL	-	INSTALL	INSTALL	-
COMMERCE STREET	INSTALL	INSTALL	-	-	-

REV. NO.	DATE	DESCRIPTION	APPROVED



CHARLESTON BOULEVARD ITS INFRASTRUCTURE
CONDUIT AND WIRE SCHEDULE
REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA

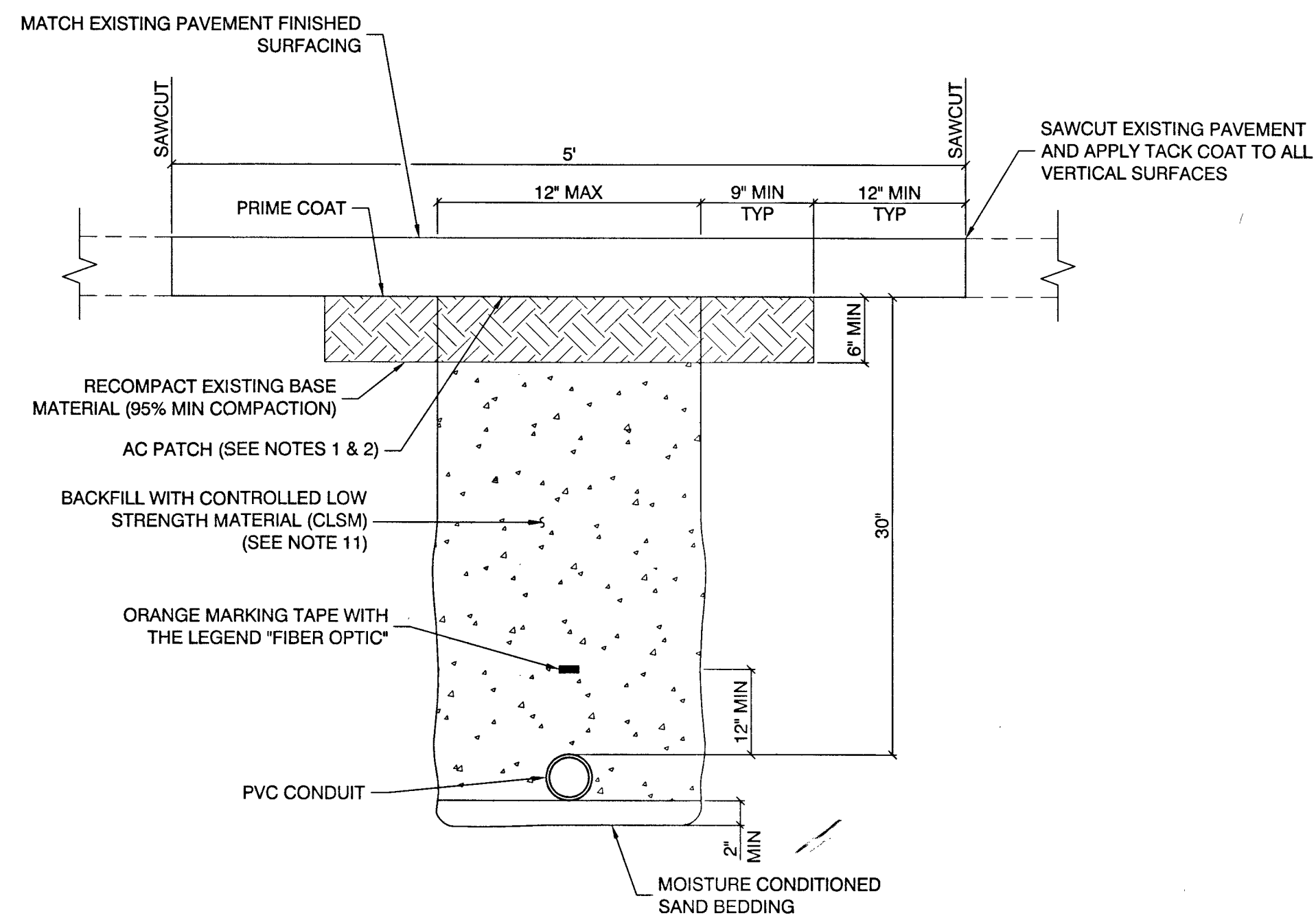


PROJECT No: TSC1802 DRAWN BY: JAS
DESIGNED BY: JAS CHECKED BY: JSR
APPROVED BY: _____

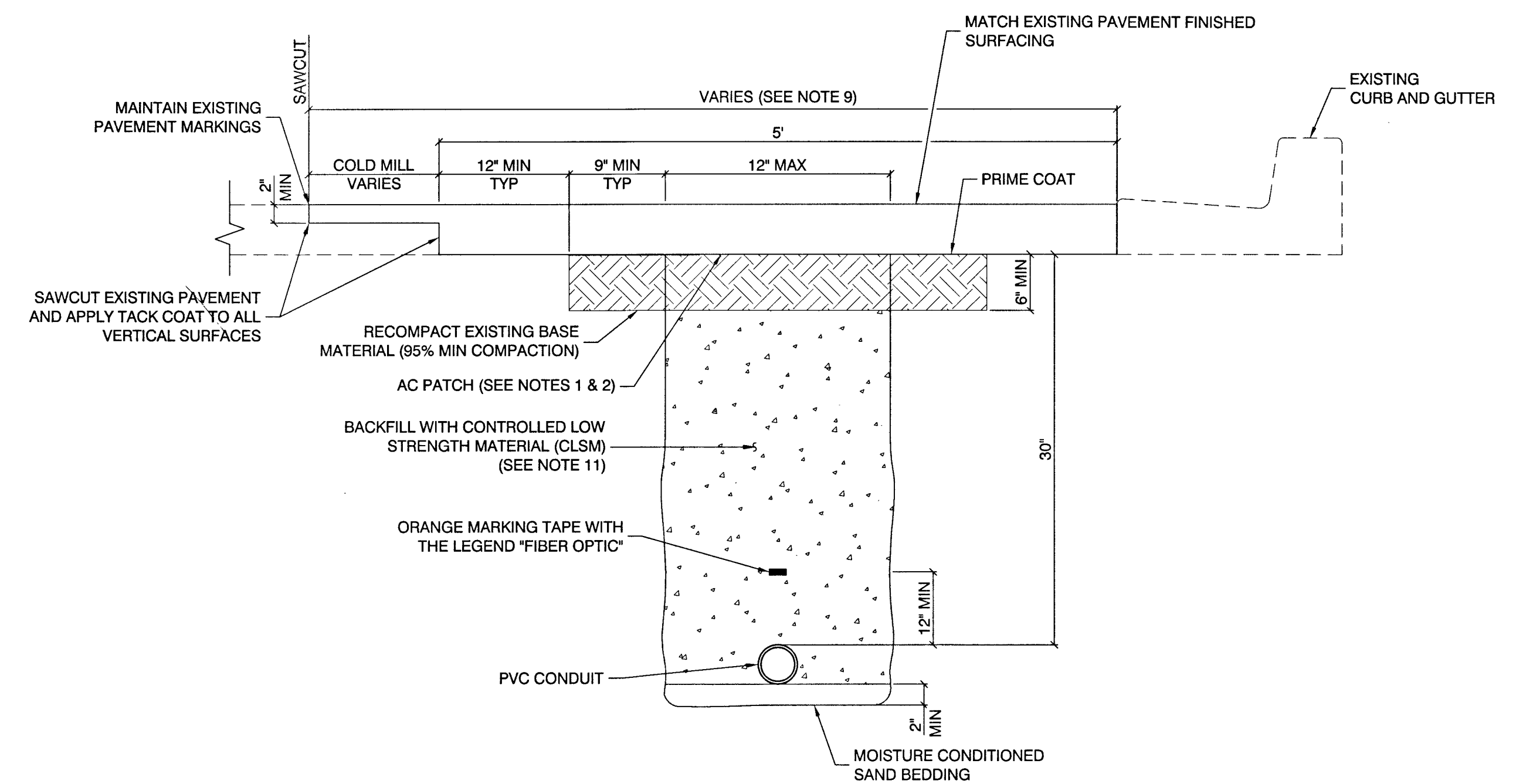
SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

SLATER HANIFAN GROUP
4 WILLOWWOOD BLVD
7040 S. ARVILLE STREET #216 LAS VEGAS, NV 89118
PHONE (702) 284-0300 FAX (702) 284-0306

DRAWING NO.
IC-11
SHT. 14 OF 15
119-00102
102V7664



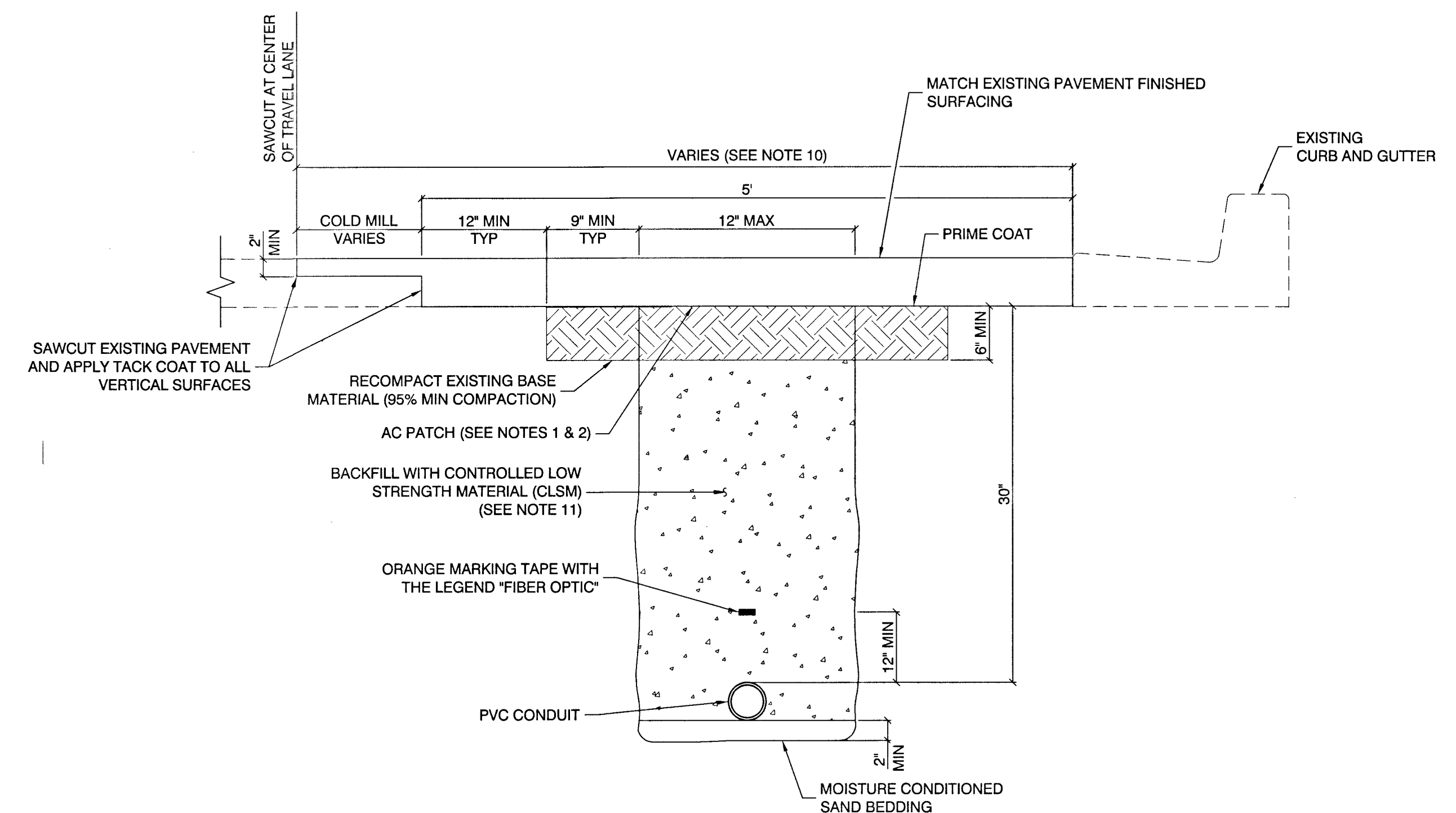
TRANSVERSE CONDUIT TRENCH (3)
NOT TO SCALE



LONGITUDINAL CONDUIT TRENCH ALONG LIP OF GUTTER (2)
NOT TO SCALE

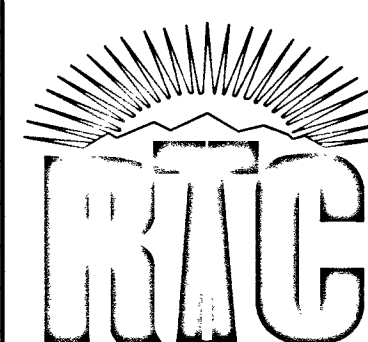
NOTES:

1. DEPTH TO MATCH EXISTING AC PAVEMENT, BUT NOT LESS THAN 4", PLACED IN MULTIPLE LIFTS OF EQUAL THICKNESS.
2. PATCH WIDTH SHALL BE SUFFICIENT TO ACCOMMODATE MECHANICAL PLACEMENT USING AGENCY APPROVED SPREADER BOX OR PAVING MACHINE, ROLLING AND COMPACTION PER UNIFORM STANDARD SPECIFICATION SECTION 401.03.11.
3. IF SAWCUT IS WITHIN 3 FEET OF EDGE OF EXISTING ASPHALT CONCRETE SURFACE OR OTHER PATCH, REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
4. IF 30" COVER IS NOT POSSIBLE, THEN RED CONCRETE ENCASEMENT MIN. 4" ABOVE CONDUIT IS REQUIRED.
5. CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE INSTALLED TO FINAL GRADE FOR TEMPORARY PATCHING.
6. PERMANENT PATCH MIX DESIGN SHALL BE AS REQUIRED BY ENGINEER.
7. NO STONES OR LUMPS GREATER THAN 3" PERMITTED.
8. TRANSVERSE PAVEMENT PATCHES SHALL BE A MINIMUM WIDTH OF 4 FEET.
9. LONGITUDINAL PAVEMENT PATCHES SHALL BE ONE TRAVEL LANE IN WIDTH WITH SAWCUTS MADE AT THE EDGE OF THE TRAVEL LANE, OR THE SHOULDER IF IT IS A PAVED, MARKED SHOULDER, OR THE BIKE LANE IF IT IS A PAVED, MARKED BIKE LANE.
10. LONGITUDINAL PAVEMENT PATCHES WITHIN AREAS TO RECEIVE FUTURE PAVEMENT REHABILITATION (TO BE APPROVED BY AGENCY) SHALL BE TO CENTER OF TRAVEL LANE WITH SAWCUTS MADE AT THE CENTER OF TRAVEL LANE.
11. CONTRACTOR SHALL ENSURE THAT CONDUIT DOES NOT FLOAT OR SHIFT DURING CLSM BACKFILL OPERATIONS.

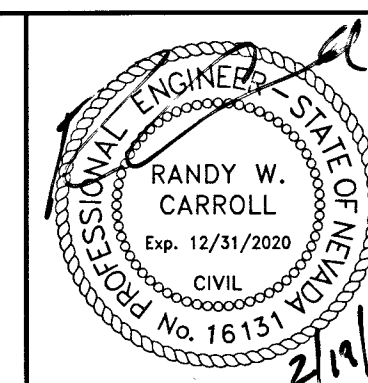


LONGITUDINAL CONDUIT TRENCH ALONG LIP OF GUTTER
(IN AREAS WITH FUTURE PAVEMENT REHABILITATION)
(1)
NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	APPROVED



CHARLESTON BOULEVARD ITS INFRASTRUCTURE
DETAILS
REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA



PROJECT No: TSC1802 DRAWN BY: JAS
DESIGNED BY: JAS CHECKED BY: JSR
APPROVED BY: _____

SLATER HANFAN GROUP
a Westwood team
5140 S. ARVILLE STREET #210 LAS VEGAS, NV 89118
PHONE (702) 264-5300 FAX (702) 264-5309

SCALE	DRAWING NO.
HORIZ: AS SHOWN	IC-12
VERT: AS SHOWN	SHT. 15 OF 15
FIELD BOOK	119-00102
	1077664