

DEPARTMENT OF OPERATIONS AND MAINTENANCE

ASPHALT OVERLAY

FUNDED BY: REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA
FUEL REVENUE INDEXING
SANITARY SEWER FUND



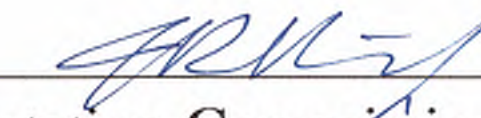
Mayor:
CAROLYN G. GOODMAN

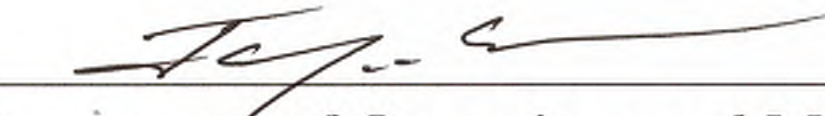
City Council:
LOIS TARKANIAN
(Mayor Pro-Tem)
STEVEN G. SEROKA
BOB COFFIN
STAVROS S. ANTHONY
RICKI Y. BARLOW
MICHELLE FIORE

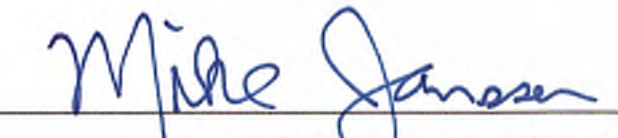
City Manager:
Scott D. Adams

Director of Department of
Operations and Maintenance:
Jerry Walker, P.E.

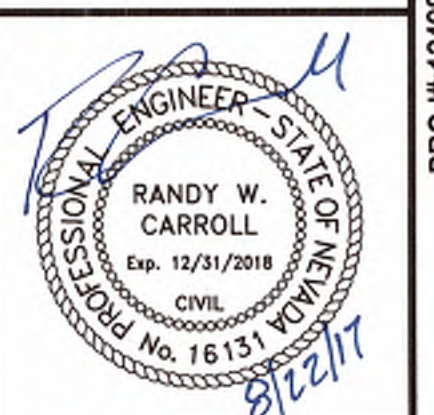
REVIEWED BY:

 9/7/17
Regional Transportation Commission of Southern Nevada Date

 8-22-17
Department of Operations and Maintenance Date

 8/22/17
City of Las Vegas Traffic Engineer Date

DURANGO DRIVE
FARM ROAD TO BRENT LANE
BID # 15.1762.02-JH REN #2



ABBREVIATIONS

AC	ASPHALT CONCRETE
ACP	ASBESTOS CEMENT PIPE
AVE	AVENUE
BC	BACK OF CURB
BLVD	BOULEVARD
BM	BENCHMARK
BOW	BACK OF WALK
BR	BARRIER RAIL
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CP	CONCRETE PIPE
CL	CENTERLINE
DI	DROP INLET
DR	DRIVE
DWG	DRAWING
E	EAST
EG	EXISTING GROUND
ELEC	ELECTRICAL
EOP	EDGE OF PAVEMENT
EX or EXIST	EXISTING
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FLG	FLUORESCENT YELLOW GREEN
HL	HINGE LINE
LL	LANE LINE
MD	MEDIAN
MH	MANHOLE
MON	MONUMENT
MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
N	NORTH
OH	OVERHEAD CABLE TELEVISION
P or UGP	UNDERGROUND POWER LINE
PB	PULL BOX
PC	POINT OF CURVE
PE	PROJECT ENGINEER or POLYETHYLENE
PED	PEDESTRIAN
PMF	PAVEMENT MARKING FILM
POC	POINT ON CURVE
POT	POINT ON TANGENT
PP	POWER POLE
PPCB	PORTABLE PRECAST BARRIER RAIL
R	RADIUS
ROW	RIGHT-OF-WAY
S	SOUTH or SANITARY SEWER
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SHT	SHEET
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
ST	STREET
SW	SIDEWALK
T-1	TYPE 1 PAVEMENT MARKING FILM
T-2	TYPE 2 PAVEMENT MARKING FILM
TELE	TELEPHONE
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TRAFFIC SIGNAL CONSTRUCTION EASEMENT
TS	TRAFFIC SIGNAL
USD	TYPICAL
WL	WATER LINE
WV	WATER VALVE
WMH	WATER MANHOLE
WLT	WATER VAULT

RTC 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 (PERSON'S WITH DISABILITY) ACCESSIBLE BEFORE ANY BUS STOP CAN BE CLOSED. THE CONTRACTOR SHALL NOTIFY CARL SOARBOUGH AT (702) 676-1608, ELLEN MARCEL AT (702) 676-1593 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.

BASIS OF BEARING:

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN. THE REFERENCE FRAME BEING NAD 83 (2011) EPOCH 2010.

BENCHMARK:

PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
BENCHMARK: CITY OF LAS VEGAS 09LV017NES
NAVD88 ELEVATION: 774.109 METERS (2539.72 FEET)
RIVET & PLATE IN TOP OF CURB AT SW CORNER OF GRAND TETON & DURANGO.

UTILITY NOTE

UTILITY LOCATIONS SHOWN ON THESE PLANS ARE INFORMATIONAL ONLY AND NOT ALL UTILITIES ARE DEPICTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING 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 PROPER LOCATION. THE DEPTH VARIES THROUGHOUT THE PROJECT AREA. THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHERE EXCAVATING AND GRADING IN THE VICINITY OF UTILITIES TO AVOID DAMAGE. ALL EXISTING UTILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

LEGEND

TELEPHONE MANHOLE	TEL
TELEPHONE VAULT	TEL
SEWER MANHOLE	S
STORM DRAIN MANHOLE	SD
DROP INLET	DI
FIRE HYDRANT	FH
WATER MANHOLE	WMH
WATER METER	W
WATER VALVE	WV
WATER BLOW-OFF	WBO
GAS VALVE	GV
POWER POLE	PP
POWER POLE W/GUY ANCHOR	PPA
ELECTRICAL MANHOLE	E
ELECTRICAL VAULT	E
CABLE VAULT	C
STREET LIGHT	SL
STREET LIGHT PULLBOX	SLP
TRAFFIC SIGNAL PULLBOX	TSB
TRAFFIC SIGNAL	TS
PEDESTRIAN TRAFFIC SIGNAL	PTS
GROUND MOUNTED SIGN	GMS
IRRIGATION PULLBOX	IRP
SURVEY MONUMENT	SM
BOLLARD	B
BENCHMARK	BM
HINGE LINE	HL

CONSTRUCTION NOTE
001
MANHOLE NUMBER

LAS VEGAS VALLEY WATER DISTRICT

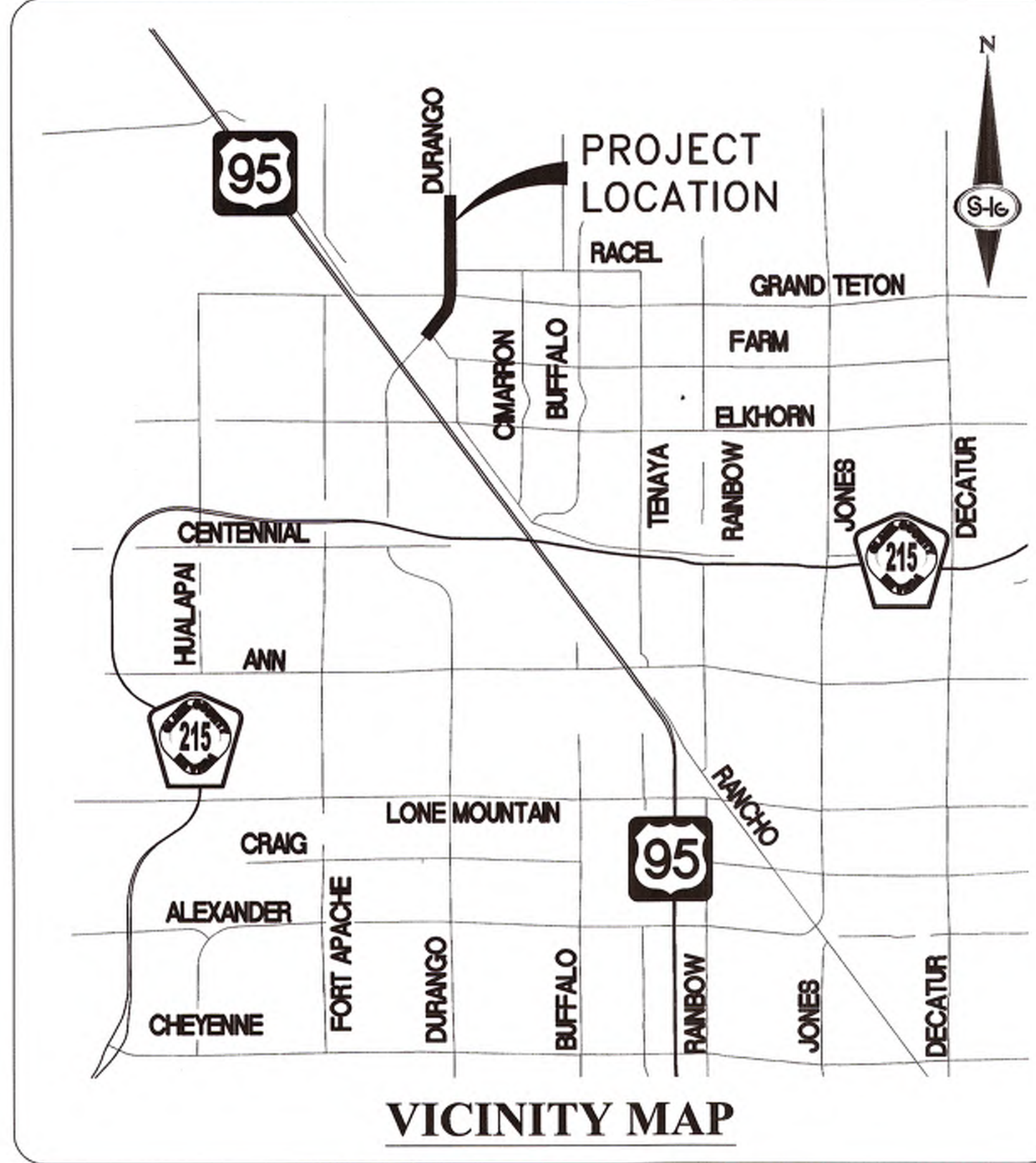
(LVVWD) STANDARD NOTES

LVVWD PROJECT #124985
(REVISED 01/09/2017)

- 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 INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 PM THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT NUMBER IDENTIFIED ABOVE.
- 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.
- 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 IMPROVEMENTS, CLARK COUNTY AREA. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
- ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD 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 LVVWD DISTRIBUTION SYSTEM.
- THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD 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 LVVWD 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 LVVWD PRE-APPROVED MATERIALS AND MANUFACTURER'S 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 (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 LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE 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 ADJUTING A PUBLIC OR 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.
- NO LEAD COMPLIANCE NOTE:
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.

APPROVED FOR CONSTRUCTION

LVVWD ENGINEERING SERVICE MANAGER
LVVWD PROJECT # 124985
10/10/17
DATE

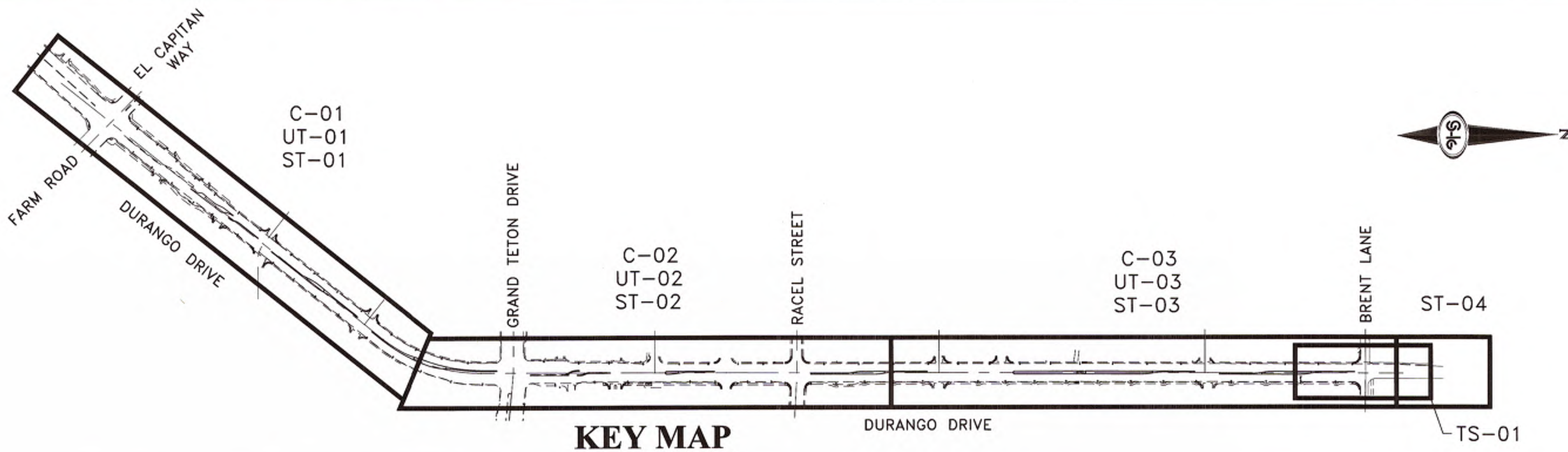


CITY OF LAS VEGAS TRAFFIC SIGNAL NOTES:

- ALL WORK PERFORMED ON ANY TRAFFIC SIGNAL COMPONENT MUST BE UNDER THE DIRECT ON-SITE SUPERVISION OF AN IMSA CERTIFIED TECHNICIAN. THE LEVEL OF CERTIFICATION REQUIRED SHALL BE LEVEL II.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATIONS OF THEIR INSTALLATIONS 72 HOURS PRIOR TO CONSTRUCTION.
CALL-BEFORE-YOU-OVERHEAD 1-702-227-2929
CALL-BEFORE-YOU-DIG 1-800-227-2600
STREETLIGHTS 1-702-228-6331
F.A.S.T. 1-702-432-5300
- ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS AND SPECIAL PROVISIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, VOLUMES I AND II, ADOPTED BY THE REGIONAL TRANSPORTATION COMMISSION APRIL 8, 1992 WITH ALL SUBSEQUENT REVISIONS.
- LUMINAIRES ON ALL SIGNAL POLES SHALL BE L.E.D. AS APPROVED BY THE CITY OF LAS VEGAS (CLV). INTERSECTION LIGHTING SHALL MEET THE REQUIREMENTS OF UNIFORM STANDARD DRAWING NUMBER 300.S3. EACH LUMINAIRE SHALL HAVE AN INDIVIDUAL 1000 WATT P.E. CONTROL. FOR LUMINAIRES THERE SHALL BE 2(TWO)-#4 AWG THW AND 1(ONE) #8 AWG THW CONDUCTORS FROM STREETLIGHT CIRCUIT TO THE BASE OF THE FLASHER SIGNAL POLE. THE #4 AWG THW CONDUCTORS SHALL BRANCH OFF INTO 2 (TWO) #10 AWG THW CONDUCTORS FOR EACH LUMINAIRE INDIVIDUALLY FUSED WITH 10 AMP FUSES. THERE SHALL BE NO SPLICES BETWEEN THE CABINET AND LUMINAIRE FIXTURES.
- THE INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE WIRED TO THE LUMINAIRES PHOTO CELL FOR CONTROL WITH #10 AWG THW COPPER STRANDED WIRE (TYPICAL). THE SIGN SHALL BE WIRED TO THE LUMINAIRE DIRECTLY ABOVE IT. IN THE EVENT THERE IS NO LUMINAIRE ON THE TRAFFIC SIGNAL POLE, THE 1000 WATT P.E. CONTROL SHALL BE MOUNTED ON THE POLE CAP. ALL NEW ILLUMINATED STREET NAME SIGNS SHALL HAVE LIGHT EMITTING DIODE (LED) LAMPS PER SECTION 623.102.16 OF THE SPECIAL PROVISIONS.
- TRAFFIC SIGNAL CABLE SHALL BE 15 OR 25 CONDUCTOR #14 AWG SOLID (TYPICAL) CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1.
- WHERE NEW LOOPS WILL BE OVERLAID WITH NEW PAVEMENT, LOOP DETECTORS SHALL BE PREFORMED LOOPS AS MANUFACTURED BY RENO A & E OR NEVER-FAIL LOOP SYSTEMS, AND ALL LOOPS SHALL BE INSTALLED IN THE ROADWAY PRIOR TO PLACEMENT OF THE FINAL PAVEMENT LIFT. WHERE NEW LOOPS ARE INSTALLED THAT ARE NOT OVERLAID WITH NEW PAVEMENT, LOOPS SHALL BE CABLE-IN-DUCT PER SECTION 623.102.04.C OF THE CITY OF LAS VEGAS SPECIAL PROVISIONS. LOOPS SHALL BE LOCATED AS SHOWN ON THE TRAFFIC SIGNAL PLANS AND APPROVED BY THE CLV TRAFFIC ENGINEERING DIVISION PRIOR TO INSTALLATION. REFER TO SECTION 623.02.04 OF THE CLV SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
- IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY CONSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE CITY.
- THE CONTRACTOR SHALL INSTALL CROSSWALKS, STOP BARS, STRIPING AND SIGNS AS IDENTIFIED ON THE PLANS.
- WHERE THE PLANS CALL FOR REMOVAL AND SALVAGE OF EXISTING TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL CALL 702-229-6331 TO SPEAK TO A TRAFFIC FIELD SUPERVISOR TO ARRANGE FOR DELIVERY TIMES AND LOCATIONS.
- THE CONTRACTOR SHALL MAINTAIN EXISTING SIGNALS THROUGH THE LIFE OF THE PROJECT PER SECTION 623.03.01N OF THE CLV SPECIAL PROVISIONS.

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 ENCLOSED 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 CAAUSS 627 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 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.
- 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 RTC 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 PROJECT'S 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.



KEY MAP

INDEX OF DRAWINGS:

SHEET	SHEET
G-01	COVER SHEET
G-02	INDEX OF DRAWINGS, KEY MAP, ABBREVIATIONS, NOTES AND LEGEND
C-01	IMPROVEMENT PLAN - "DD" 10+00.00 TO "DD" 28+50.00
C-02	IMPROVEMENT PLAN - "DD" 28+50.00 TO "DD" 51+00.00
C-03	IMPROVEMENT PLAN - "DD" 51+00.00 TO "DD" 75+00.00
UT-01	UTILITY PLAN - "DD" 10+00.00 TO "DD" 28+50.00
UT-02	UTILITY PLAN - "DD" 28+50.00 TO "DD" 51+00.00
UT-03	UTILITY PLAN - "DD" 51+00.00 TO "DD" 75+00.00
ST-01	STRIPING PLAN - "DD" 10+00.00 TO "DD" 28+50.00
ST-02	STRIPING PLAN - "DD" 28+50.00 TO "DD" 51+00.00
ST-03	STRIPING PLAN - "DD" 51+00.00 TO "DD" 69+50.00
ST-04	STRIPING PLAN - "DD" 69+50.00 TO "DD" 77+00.00
TS-01	PEDESTRIAN FLASHER PLAN - "DD" 58+00.00 TO "DD" 77+50.00
TS-02	PEDESTRIAN FLASHER DETAILS



DEPARTMENT OF OPERATIONS AND MAINTENANCE



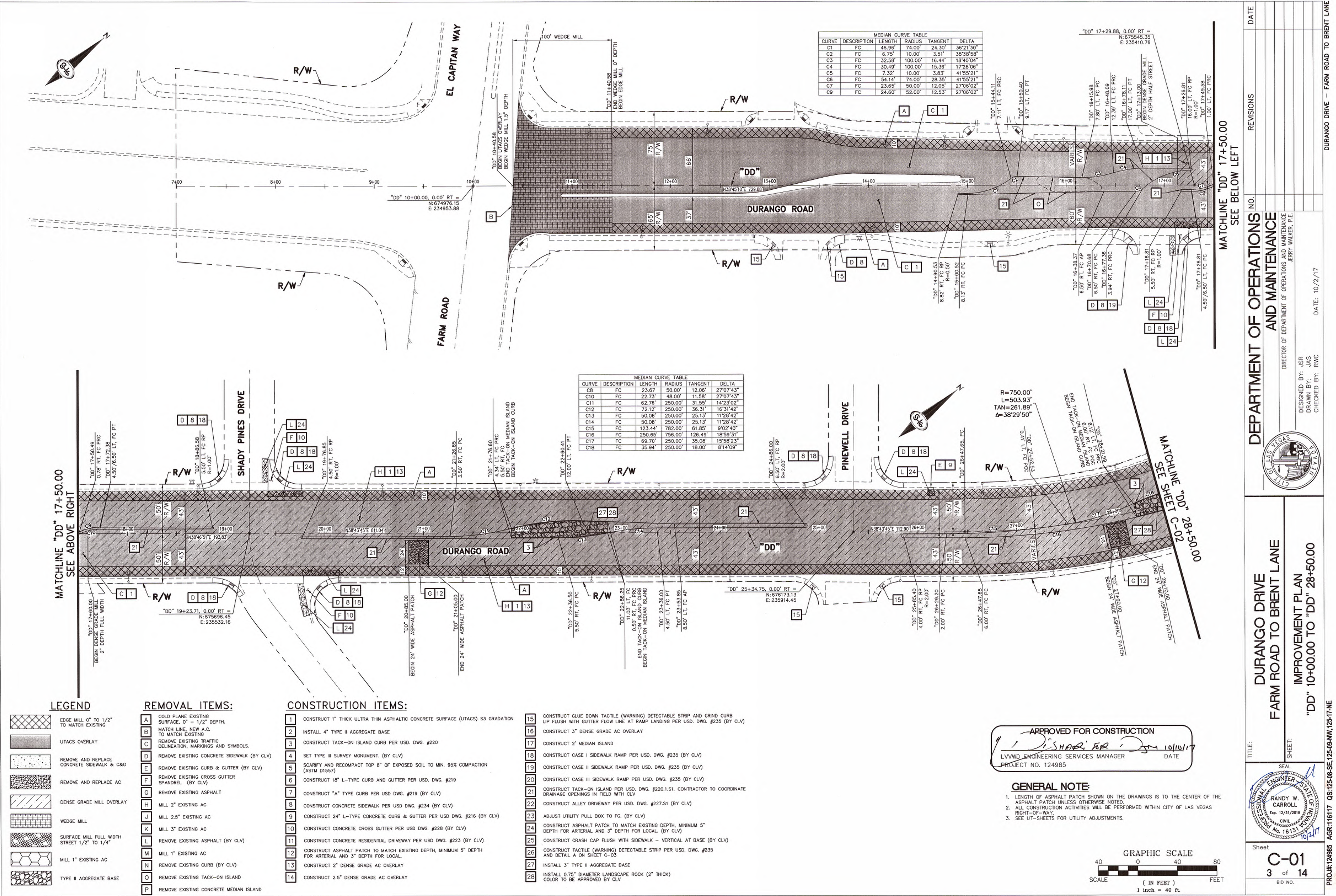
DURANGO DRIVE FARM ROAD TO BRENT LANE

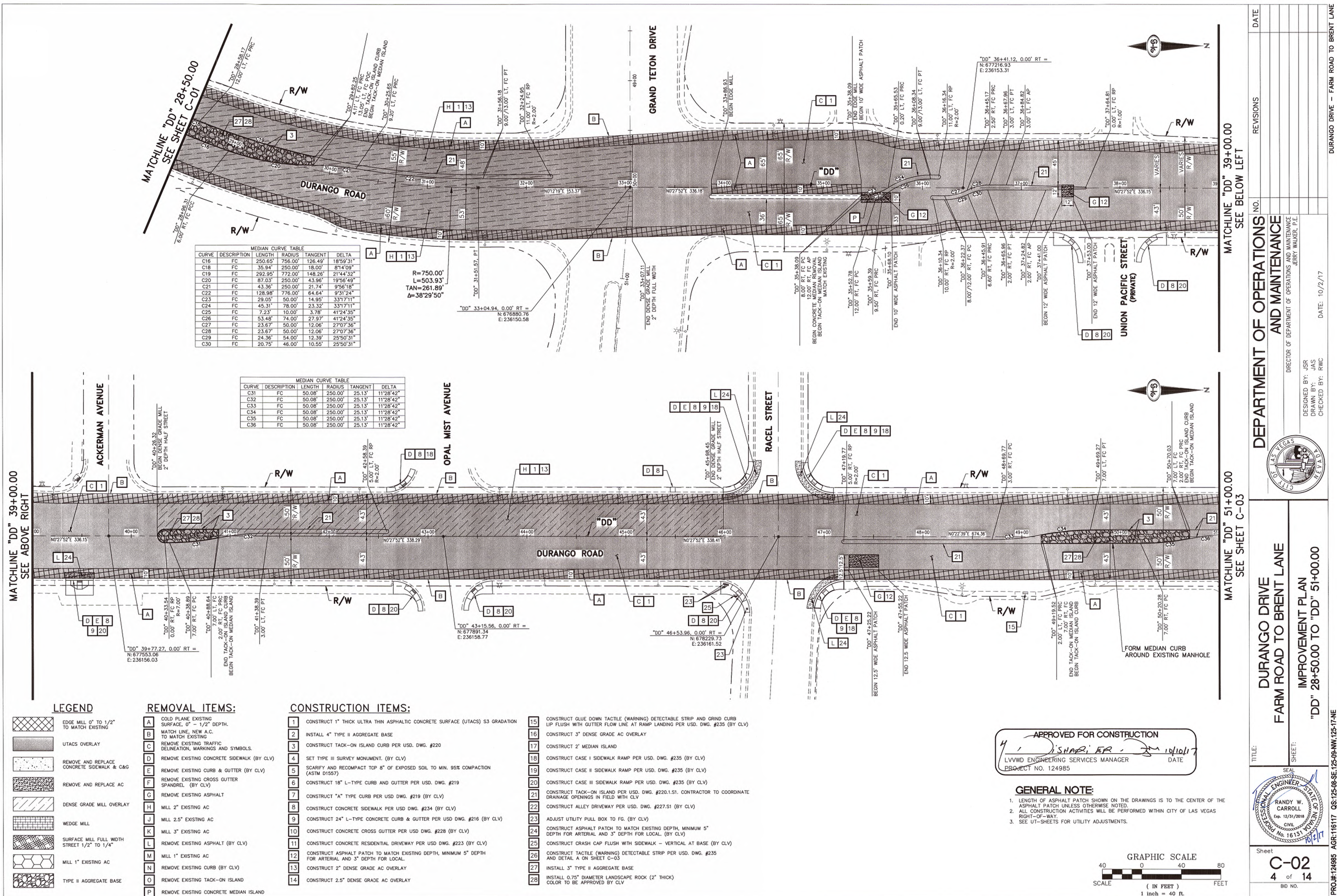
INDEX OF DRAWINGS, KEY MAP, ABBREVIATIONS, NOTES AND LEGEND

TITLE: SHEET: G-02
2 of 14
BID NO.

DESIGNED BY: JSR
DRAWN BY: JAS
CHECKED BY: RWC
DIRECTOR OF DEPARTMENT OF OPERATIONS AND MAINTENANCE
JERRY WALKER, P.E.

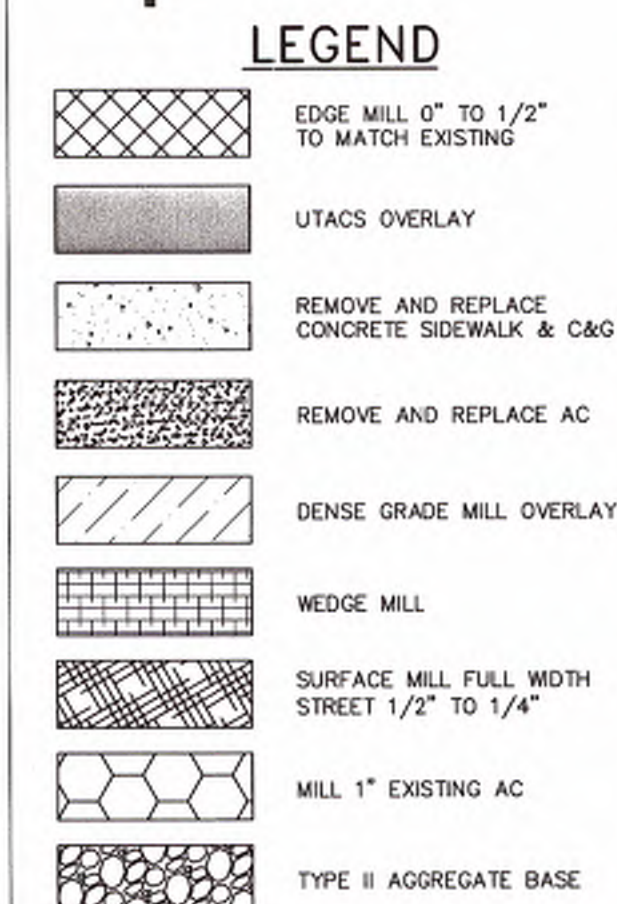
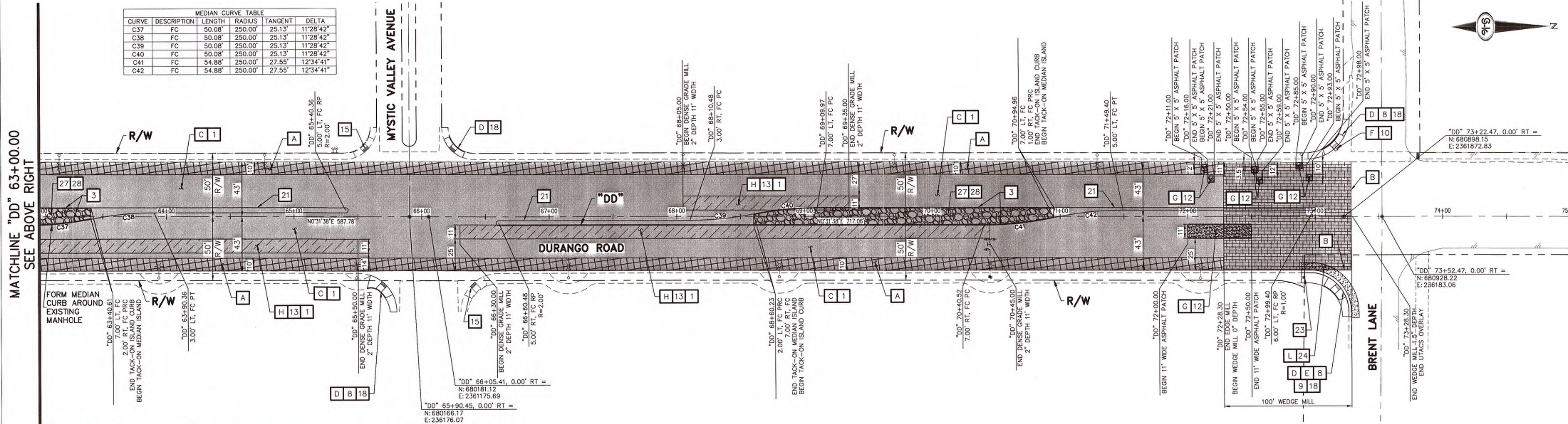
DATE: 10/2/17





MATCHLINE "DD" 63+00.00
SEE ABOVE RIGHT

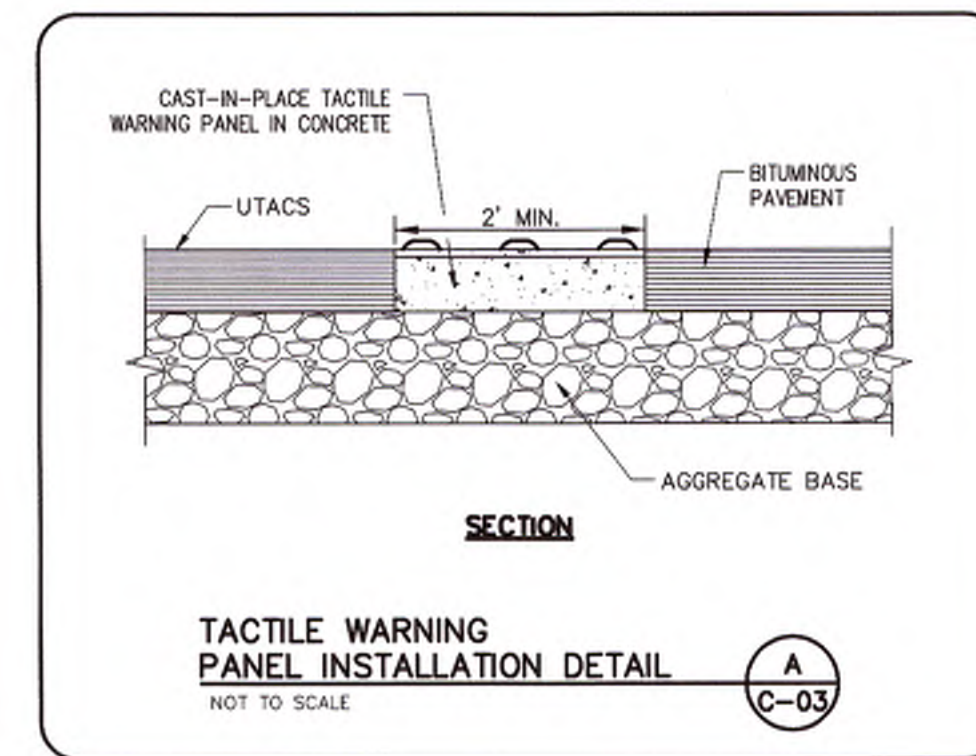
MATCHLINE "DD" 51+00.00
SEE SHEET C-02



- REMOVAL ITEMS:**
- A COLD PLANE EXISTING SURFACE, 0" - 1/2" DEPTH.
 - B MATCH LINE, NEW A.C. TO MATCH EXISTING
 - C REMOVE EXISTING TRAFFIC DELINEATION, MARKINGS AND SYMBOLS.
 - D REMOVE EXISTING CONCRETE SIDEWALK (BY CLV)
 - E REMOVE EXISTING CURB & GUTTER (BY CLV)
 - F REMOVE EXISTING CROSS GUTTER SPANDREL (BY CLV)
 - G REMOVE EXISTING ASPHALT
 - H MILL 2" EXISTING AC
 - J MILL 2.5" EXISTING AC
 - K MILL 3" EXISTING AC
 - L REMOVE EXISTING ASPHALT (BY CLV)
 - M MILL 1" EXISTING AC
 - N REMOVE EXISTING CURB (BY CLV)
 - O REMOVE EXISTING TACK-ON ISLAND
 - P REMOVE EXISTING CONCRETE MEDIAN ISLAND

- CONSTRUCTION ITEMS:**
- 1 CONSTRUCT 1" THICK ULTRA THIN ASPHALTIC CONCRETE SURFACE (UTACS) S3 GRADATION
 - 2 INSTALL 4" TYPE II AGGREGATE BASE
 - 3 CONSTRUCT TACK-ON ISLAND CURB PER USD. DWG. #220
 - 4 SET TYPE III SURVEY MONUMENT. (BY CLV)
 - 5 SCARIFY AND RECOMPACT TOP 8" OF EXPOSED SOIL TO MIN. 95% COMPACTION (ASTM D1557)
 - 6 CONSTRUCT 18" L-TYPE CURB AND GUTTER PER USD. DWG. #219
 - 7 CONSTRUCT "A" TYPE CURB PER USD. DWG. #219 (BY CLV)
 - 8 CONSTRUCT CONCRETE SIDEWALK PER USD. DWG. #234 (BY CLV)
 - 9 CONSTRUCT 24" L-TYPE CONCRETE CURB & GUTTER PER USD. DWG. #216 (BY CLV)
 - 10 CONSTRUCT CONCRETE CROSS GUTTER PER USD. DWG. #228 (BY CLV)
 - 11 CONSTRUCT CONCRETE RESIDENTIAL DRIVEWAY PER USD. DWG. #223 (BY CLV)
 - 12 CONSTRUCT ASPHALT PATCH TO MATCH EXISTING DEPTH, MINIMUM 5" DEPTH FOR ARTERIAL AND 3" DEPTH FOR LOCAL.
 - 13 CONSTRUCT 2" DENSE GRADE AC OVERLAY
 - 14 CONSTRUCT 2.5" DENSE GRADE AC OVERLAY

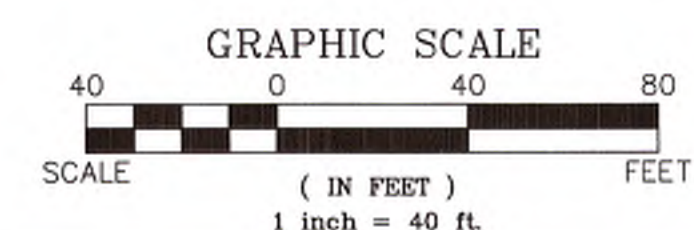
- 15 CONSTRUCT GLUE DOWN TACTILE (WARNING) DETECTABLE STRIP AND GRIND CURB LIP FLUSH WITH GUTTER FLOW LINE AT RAMP LANDING PER USD. DWG. #235 (BY CLV)
- 16 CONSTRUCT 3" DENSE GRADE AC OVERLAY
- 17 CONSTRUCT 2" MEDIAN ISLAND
- 18 CONSTRUCT CASE I SIDEWALK RAMP PER USD. DWG. #235 (BY CLV)
- 19 CONSTRUCT CASE II SIDEWALK RAMP PER USD. DWG. #235 (BY CLV)
- 20 CONSTRUCT CASE III SIDEWALK RAMP PER USD. DWG. #235 (BY CLV)
- 21 CONSTRUCT TACK-ON ISLAND PER USD. DWG. #220.1.S1. CONTRACTOR TO COORDINATE DRAINAGE OPENINGS IN FIELD WITH CLV
- 22 CONSTRUCT ALLEY DRIVEWAY PER USD. DWG. #227.S1 (BY CLV)
- 23 ADJUST UTILITY PULL BOX TO FG. (BY CLV)
- 24 CONSTRUCT ASPHALT PATCH TO MATCH EXISTING DEPTH, MINIMUM 5" DEPTH FOR ARTERIAL AND 3" DEPTH FOR LOCAL. (BY CLV)
- 25 CONSTRUCT CRASH CAP FLUSH WITH SIDEWALK - VERTICAL AT BASE (BY CLV)
- 26 CONSTRUCT TACTILE (WARNING) DETECTABLE STRIP PER USD. DWG. #235 AND DETAIL A ON SHEET C-03
- 27 INSTALL 3" TYPE II AGGREGATE BASE
- 28 INSTALL 0.75" DIAMETER LANDSCAPE ROCK (2" THICK) COLOR TO BE APPROVED BY CLV



APPROVED FOR CONSTRUCTION
L.V. SHAPIRO, JR.
L.V. ENGINEERING SERVICES MANAGER
PROJECT NO. 124985
DATE 10/18/17

GENERAL NOTE:

- LENGTH OF ASPHALT PATCH SHOWN ON THE DRAWINGS IS TO THE CENTER OF THE ASPHALT PATCH UNLESS OTHERWISE NOTED
- ALL CONSTRUCTION ACTIVITIES WILL BE PERFORMED WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY.
- SEE UT-SHEETS FOR UTILITY ADJUSTMENTS.



**DURANGO DRIVE
FARM ROAD TO BRENT LANE
IMPROVEMENT PLAN
"DD" 51+00.00 TO "DD" 75+00.00**

**DEPARTMENT OF OPERATIONS
AND MAINTENANCE**

NO.	REVISIONS	DATE

DESIGNED BY: JSR
DRAWN BY: JAS
CHECKED BY: RWC

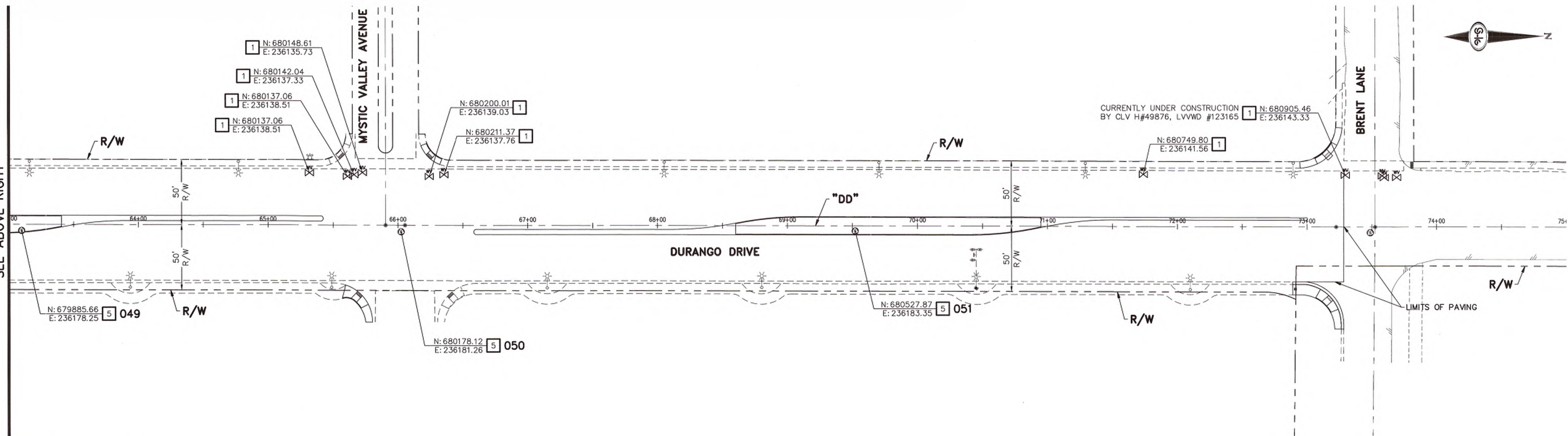
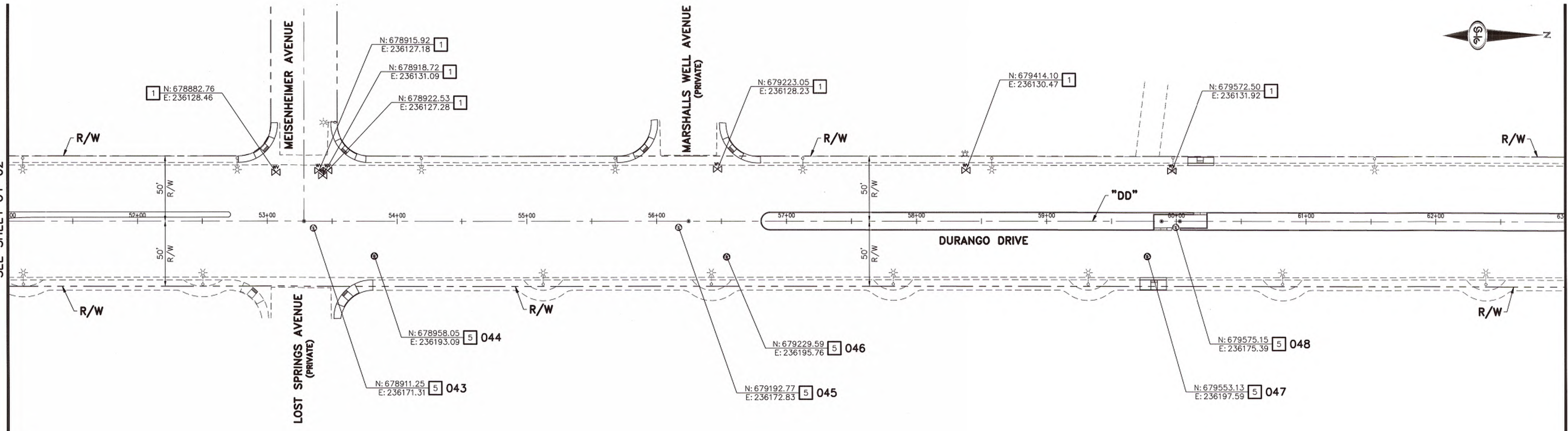
DATE: 10/2/17

PROJ#124985 AGR116117 QS:125-08-SE,125-05-NW,125-17-NE

CLV DWG No. 107V7381

MATCHLINE "DD" 51+00.00
SEE SHEET UT-02

MATCHLINE "DD" 63+00.00
SEE ABOVE RIGHT

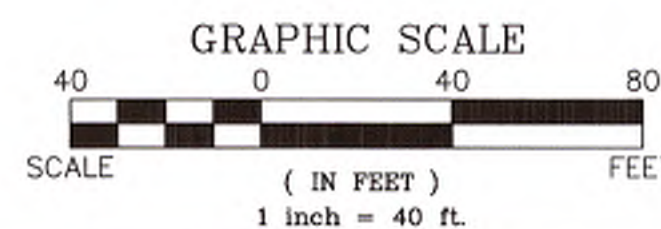


CONSTRUCTION ITEMS:

1. ADJUST WATER VALVE BOX TO FINISHED GRADE PER UDACS PLATE NO. 39. VALVE SHALL BE ACCESSIBLE AT ALL TIMES
2. CONTRACTOR SHALL INSTALL BLIND FLANGE, CONCRETE COLLAR, MANHOLE FRAME AND COVER AND ADJUST WATER BLOW-OFF ASSEMBLY TO FG PER UDACS PLATE NO. 37
3. ADJUST WATER MANHOLE TO FG PER LVWD DESIGN STD. PL08-4 (LVWD ACAD STD)
4. ADJUST 4" BYPASS VALVE TO FINISH GRADE
5. ADJUST SSMH OR SDMH TO FG AND CONSTRUCT CONCRETE COLLAR PER USD. DWG. #408
6. ADJUST ELECTRICAL OR TELEPHONE MANHOLE TO FG AND CONSTRUCT CONCRETE COLLAR
7. ADJUST GAS VALVE TO FG AND CONSTRUCT CONCRETE COLLAR (BY OTHERS)
8. ADJUST TELEPHONE MANHOLE TO FG AND CONSTRUCT CONCRETE COLLAR (BY OTHERS)
9. ADJUST GAS MANHOLE TO FG AND CONSTRUCT CONCRETE COLLAR (BY OTHERS)
10. REMOVE FRAME AND COVER AND INSTALL NEW FRAME AND COVER PER DCSWCS NO. SD-2 (FRAME AND COVER TO BE PROVIDED TO CONTRACTOR BY CLV)
11. ADJUST 2" WATER BLOW-OFF ASSEMBLY TO FINISHED GRADE PER UDACS PLATE NO. 36
12. REPLACE MANHOLE LID WITH CLV MANHOLE LID
13. SEAL MANHOLE AFTER ADJUSTMENT TO FG

APPROVED FOR CONSTRUCTION
Disaster 10/10/17
LVWD ENGINEERING SERVICES MANAGER
PROJECT NO. 124985

GENERAL NOTE:
1. ALL CONSTRUCTION ACTIVITIES WILL BE PERFORMED WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY.



REVISIONS		NO.	DATE

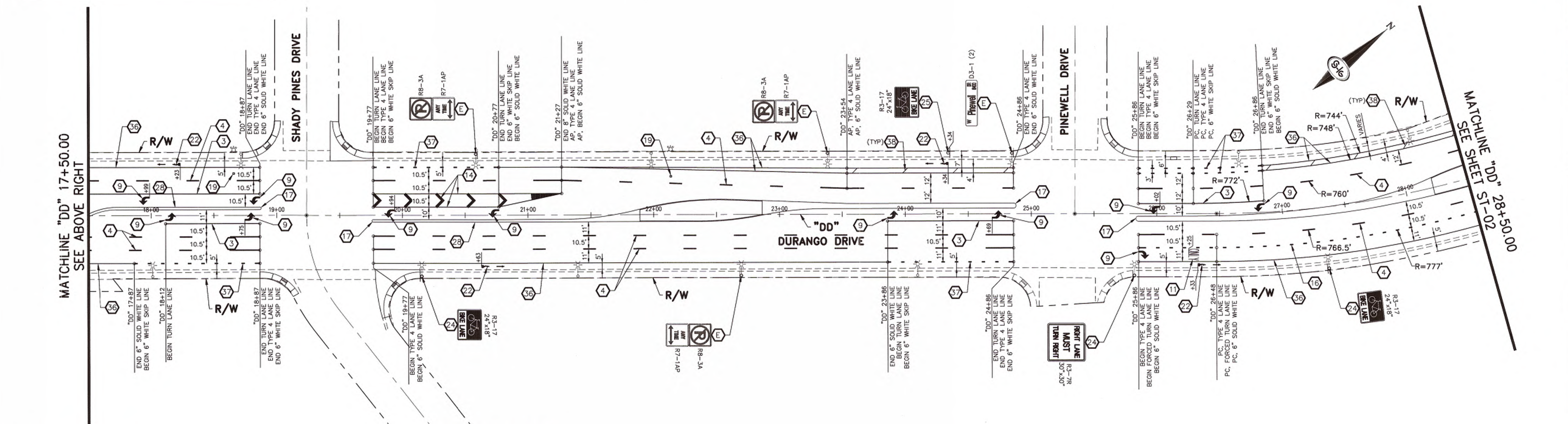
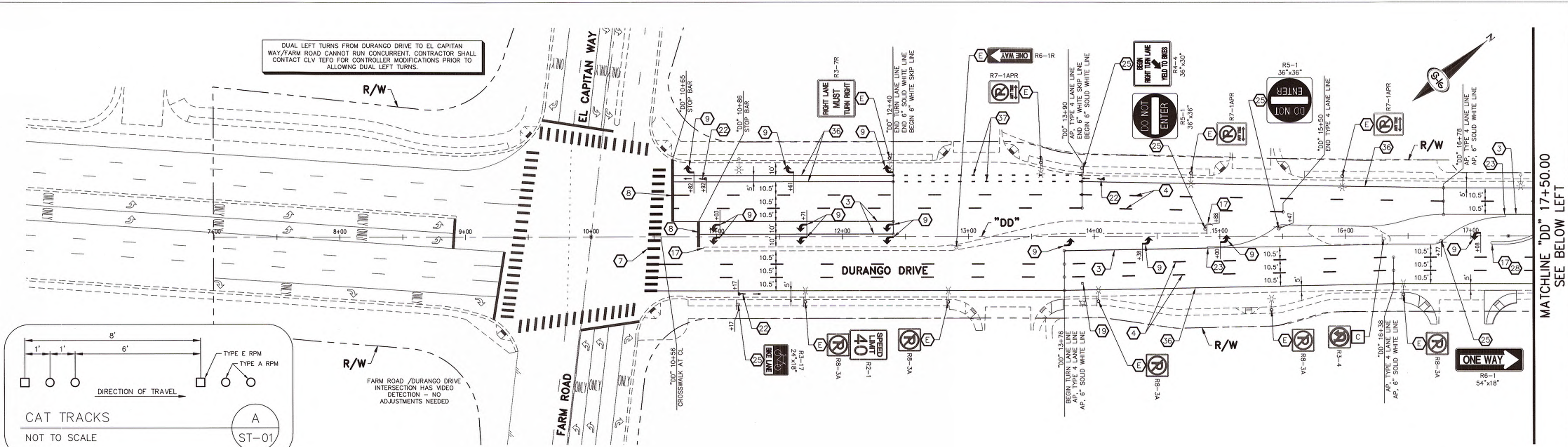
DEPARTMENT OF OPERATIONS AND MAINTENANCE
DIRECTOR OF DEPARTMENT OF OPERATIONS AND MAINTENANCE
JERRY WALKER, P.E.
DESIGNED BY: JSR
DRAWN BY: JAS
CHECKED BY: RWC
DATE: 10/2/17

CITY OF LAS VEGAS
NEVADA

TITLE: DURANGO DRIVE
FARM ROAD TO BRENT LANE
SHEET: UT-03
8 of 14
BID NO.

PROJECT: 124985 AGR-116117 QS-125-08-SE, 125-09-NW, 125-17-NE

CLV DWG No. 107V7381



REMOVAL ITEMS:

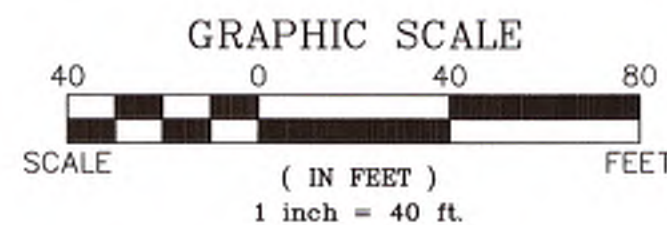
- A** REMOVE EXISTING TRAFFIC DELINEATION, MARKINGS AND SYMBOLS.
- B** SAWCUT AND REMOVE EXISTING ISLAND AND ISLAND NOSE FROM CROSSWALK PATH.
- C** REMOVE AND SALVAGE SIGN(S).

GENERAL NOTE:

1. ALL LANE LINE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN ISLAND UNLESS OTHERWISE NOTED.

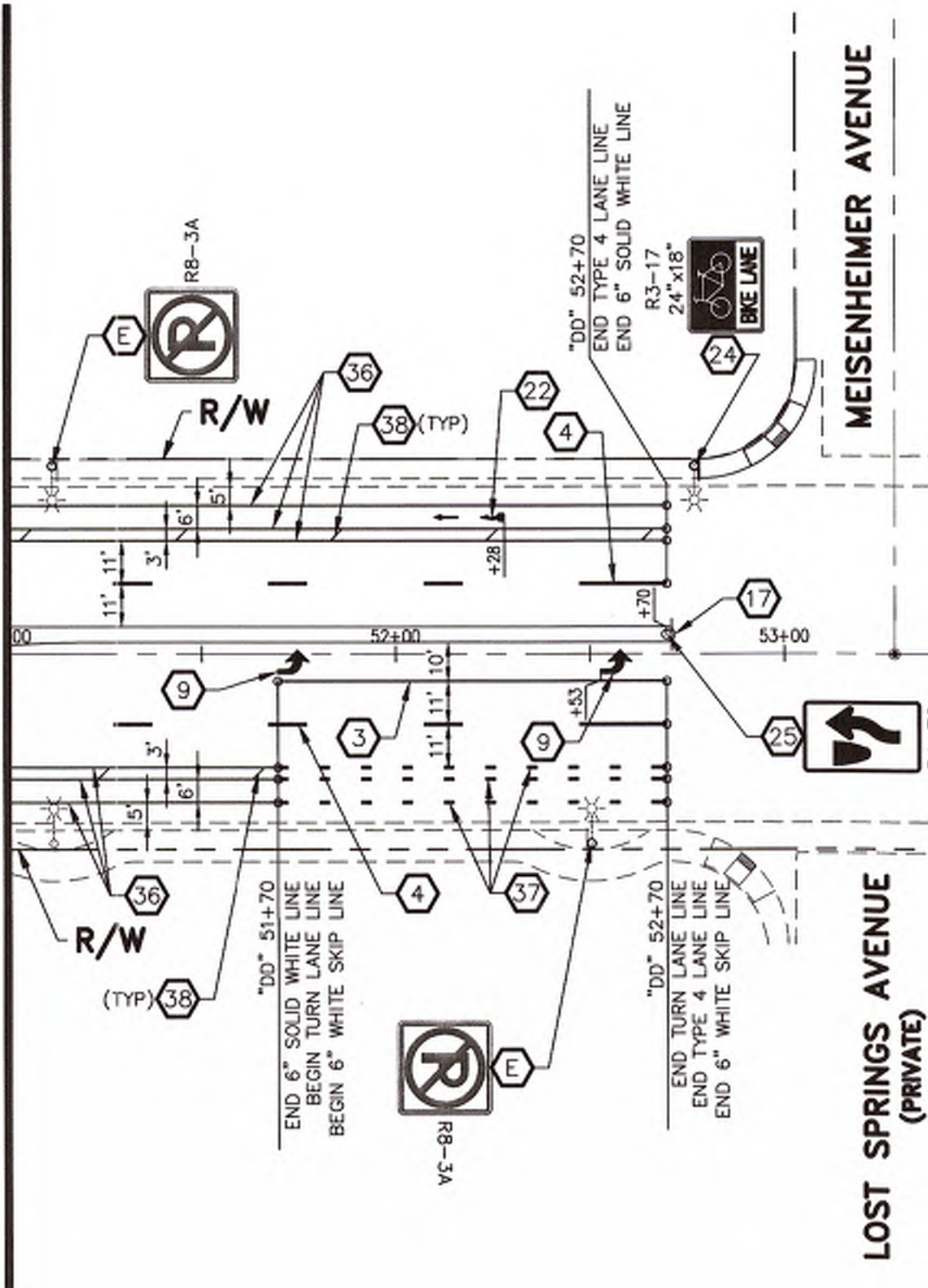
CONSTRUCTION ITEMS:

1. INSTALL TYPE 1 CENTERLINE AS PER USD. DWG. #244.
2. INSTALL TYPE 2 CENTERLINE AS PER USD. DWG. #244.
3. INSTALL TURN LANE LINE (RPM) AS PER USD. DWG. #246.
4. INSTALL TYPE 4 LANE LINE AS PER USD. DWG. #244.1.
5. INSTALL 6" SOLID WHITE LINE (T-2 FILM) AS PER USD. DWG. #244.9.
6. INSTALL WHITE T-2 FILM SCHOOL CROSSWALK PER USD. DWG. #254.1.51.
7. INSTALL WHITE T-2 FILM CROSSWALK PER USD. DWG. #254.
8. INSTALL WHITE T-2 FILM STOP BAR PER USD. DWG. #254.
9. INSTALL WHITE T-2 FILM "ARROW" SYMBOL PER MUTCD 2009 PART 3 AND USD. DWG. #246.
10. INSTALL WHITE T-2 FILM LANE LINE (3' SEGMENTS AND 9' GAPS).
11. INSTALL WHITE T-2 FILM "ONLY" LEGEND PER MUTCD 2009 PART 3 AND USD. DWG. #246.6.
12. INSTALL TRAFFIC LOOP DETECTOR AS PER USD. DWG. #826, 827, 828, AND 834.
13. INSTALL WHITE T-2 FILM STRIPING PER USD. DWG. #245.
14. INSTALL TRANSITION SECTION (T-2 FILM) AS PER USD. DWG. #245 (3 OF 3).
15. INSTALL TRANSITION SECTION (T-2 FILM) AS PER USD. DWG. #245 (2 OF 3).
16. INSTALL FORCED TURN LANE LINE (RPM) AS PER USD. DWG. #246.6.
17. INSTALL YELLOW MEDIAN NOSE MARKINGS AS PER USD. DWG. #248.
18. INSTALL MEDIAN ISLAND NOSE NOT TO ENCRoACH INTO CROSSWALK PATH.
19. INSTALL FIRE HYDRANT MARKER PER CITY OF LAS VEGAS FIRE CODE.
20. INSTALL RIGHT TURN ONLY LANE LINE PER MUTCD 2009 PART 9 FIG. 9C-4.
21. INSTALL 6" WHITE SKIP LINE (T-2 FILM) AS PER USD. DWG. #244.9.
22. INSTALL WHITE T-2 FILM BICYCLE SYMBOL PAVEMENT MARKING PER MUTCD 2009 PART 9 FIG. 9C-3 AND USD. DWG. #244.9.
23. INSTALL WHITE MEDIAN NOSE MARKINGS AS PER USD. DWG. #248.
24. INSTALL NEW SIGN(S) (POLE MOUNTED).
25. INSTALL NEW SIGN(S) (GROUND MOUNTED) AS PER USD. DWG. #249.1.
26. INSTALL T-2 FILM "U-TURN ARROW" SYMBOL.
27. INSTALL WHITE CAT TRACKS (RPM) (SEE DETAIL A, SHEET ST-01).
28. PAINT MEDIAN ISLAND YELLOW UP TO 2' WIDTH.
29. INSTALL WHITE K71 SELF RE-ERECTING MARKER POST.
30. INSTALL TYPE 1 CENTERLINE AS PER USD. DWG. #244 (ALL PAVEMENT MARKERS SHALL BE WHITE).
31. INSTALL 4" SOLID WHITE LINE (T-1 FILM).
32. INSTALL 8" SOLID WHITE LINE (T-2 FILM).
33. REMOVE AND RESET SIGN(S).
34. INSTALL YELLOW K71 SELF RE-ERECTING MARKER POST.
35. INSTALL WHITE T-2 FILM MERGE ARROW AS PER NDOT STD. PLAN T-38.1.1.
36. INSTALL 6" SOLID WHITE LINE (EPOXY PAINT) AS PER USD. DWG. #244.9.
37. INSTALL 6" WHITE SKIP LINE (EPOXY PAINT) AS PER USD. DWG. #244.9.
38. INSTALL 4" DIAGONAL WHITE LINE @ 40' O.C. (WATERBORNE PAINT).
39. INSTALL 4" SOLID WHITE LINE (EPOXY PAINT) AS PER USD. DWG. #244.9.
40. INSTALL 4" WHITE SKIP LINE (EPOXY PAINT) AS PER USD. DWG. #244.9.
41. INSTALL TRANSITION SECTION (EPOXY PAINT) AS PER USD. DWG. #245 (3 OF 3).
42. INSTALL TRANSITION SECTION (EPOXY PAINT) AS PER USD. DWG. #245 (2 OF 3).
43. INSTALL BICYCLE DETECTOR LOOP (SEE DETAIL 1, SHEET ST-06). BICYCLE LOOP CONNECTION TO LOOP LEAD-IN BY CLV. PROVIDE A MIN. OF 5' OF LOOP LEADS COILED IN LOOP PULL BOX.
44. INSTALL COMPRESSED WHITE T-2 FILM "ARROW" SYMBOL PER MUTCD 2009 PART 3.
45. REFRESH EXISTING RED PAINTED CURB WITH NEW PAINT.
46. INSTALL WHITE T-2 FILM "SHARK TOOTH" YIELD LINE PER MUTCD 2009 PART 3 FIG. 3B-16.
47. EXISTING SIGN TO REMAIN IN PLACE.



DEPARTMENT OF OPERATIONS AND MAINTENANCE DIRECTOR OF DEPARTMENT OF OPERATIONS AND MAINTENANCE JERRY WALKER, P.E.		NO. _____ DATE _____
DURANGO DRIVE FARM ROAD TO BRENT LANE STRIPING PLAN "DD" 10+00.00 TO "DD" 28+50.00		DESIGNED BY: JSR DRAWN BY: JAS CHECKED BY: RWC DATE: 10/2/17
TITLE: _____ SHEET: _____		REVISIONS: _____ DATE: _____
SEAL 		DURANGO DRIVE - FARM ROAD TO BRENT LANE

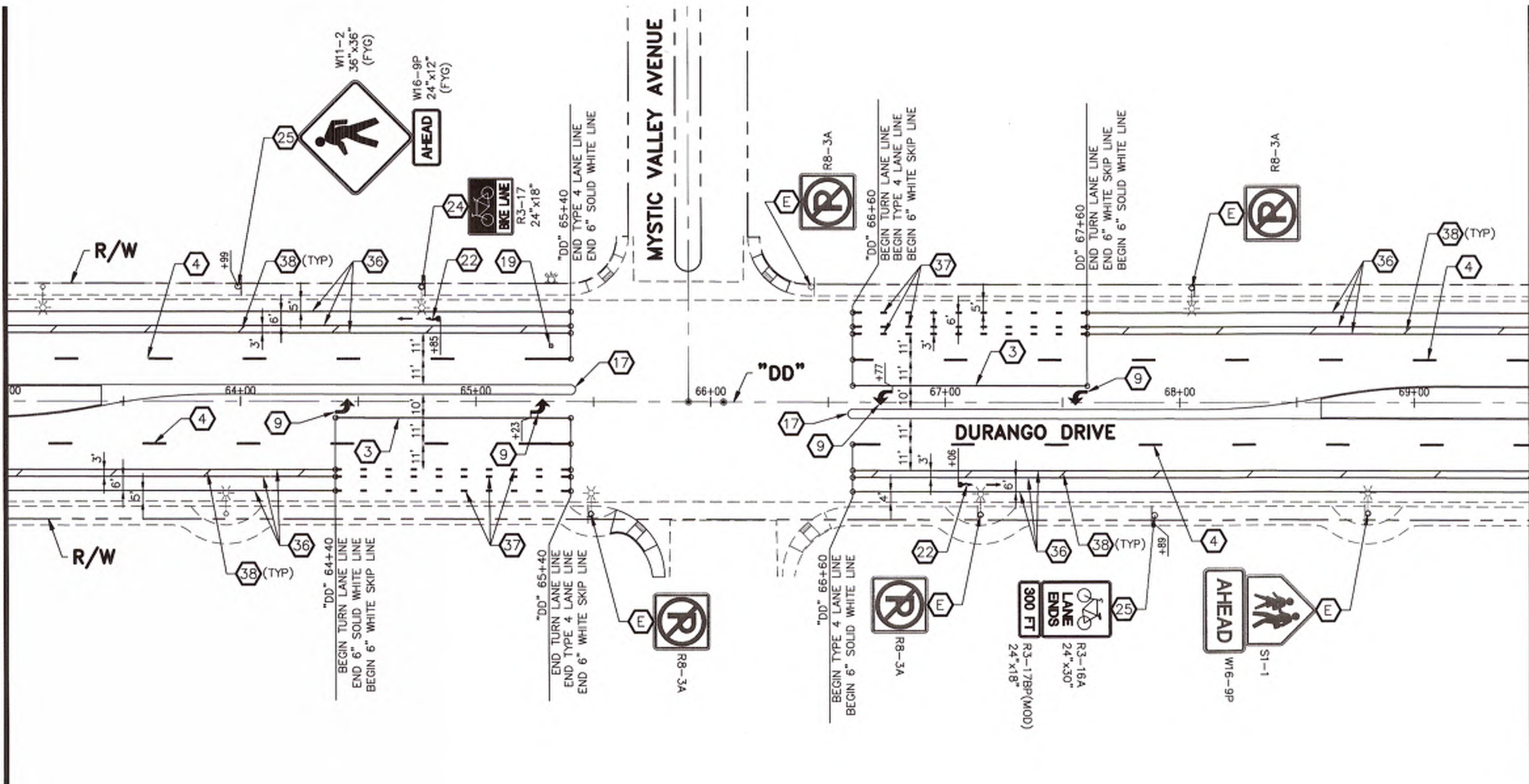
MATCHLINE "DD" 51+00.00
SEE SHEET ST-02



LOST SPRINGS AVENUE
(PRIVATE)

MEISENHEIMER AVENUE

MATCHLINE "DD" 63+00.00
SEE ABOVE RIGHT



MATCHLINE "DD" 69+50.00
SEE SHEET ST-04

MATCHLINE "DD" 63+00.00
SEE BELOW LEFT

REMOVAL ITEMS:

- A REMOVE EXISTING TRAFFIC DELINEATION, MARKINGS AND SYMBOLS.
- B SAWCUT AND REMOVE EXISTING ISLAND AND ISLAND NOSE FROM CROSSWALK PATH.
- C REMOVE AND SALVAGE SIGN(S).

GENERAL NOTE:

1. ALL LANE LINE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN ISLAND UNLESS OTHERWISE NOTED.

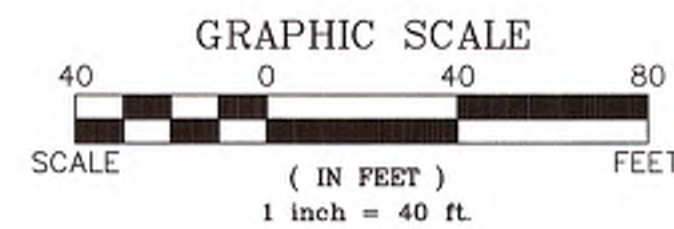
CONSTRUCTION ITEMS:

- 1 INSTALL TYPE 1 CENTERLINE AS PER USD. DWG. #244.
- 2 INSTALL TYPE 2 CENTERLINE AS PER USD. DWG. #244.
- 3 INSTALL MEDIAN ISLAND NOSE NOT TO ENCROACH INTO CROSSWALK PATH.
- 4 INSTALL TYPE 4 LANE LINE AS PER USD. DWG. #244.1.
- 5 INSTALL 6" SOLID WHITE LINE (T-2 FILM) AS PER USD. DWG. #244.9.
- 6 INSTALL WHITE T-2 FILM SCHOOL CROSSWALK PER USD. DWG. #254.1.51.
- 7 INSTALL WHITE T-2 FILM "ONLY" LEGEND PER MUTCD 2009 PART 3 AND USD. DWG. #246.6.
- 8 INSTALL WHITE T-2 FILM STOP BAR PER USD. DWG. #254.
- 9 INSTALL WHITE T-2 FILM "ARROW" SYMBOL PER MUTCD 2009 PART 3 AND USD. DWG. #246.
- 10 INSTALL WHITE T-2 FILM LANE LINE (3' SEGMENTS AND 9' GAPS).
- 11 INSTALL WHITE T-2 FILM "U-TURN ARROW" SYMBOL.
- 12 INSTALL TRAFFIC LOOP DETECTOR AS PER USD. DWG. #826, 827, 828, AND 834.
- 13 INSTALL WHITE T-2 FILM STRIPING PER USD. DWG. #245.
- 14 INSTALL TRANSITION SECTION (T-2 FILM) AS PER USD. DWG. #245 (3 OF 3).
- 15 INSTALL TRANSITION SECTION (T-2 FILM) AS PER USD. DWG. #245 (2 OF 3).

- 16 INSTALL FORCED TURN LANE LINE (RPM) AS PER USD. DWG. #246.6.
- 17 INSTALL YELLOW MEDIAN NOSE MARKINGS AS PER USD. DWG. #248.
- 18 INSTALL MEDIAN ISLAND NOSE NOT TO ENCROACH INTO CROSSWALK PATH.
- 19 INSTALL FIRE HYDRANT MARKER PER CITY OF LAS VEGAS FIRE CODE.
- 20 INSTALL RIGHT TURN ONLY LANE PER MUTCD 2009 PART 9 FIG. 9C-4.
- 21 INSTALL 6" WHITE SKIP LINE (T-2 FILM) AS PER USD. DWG. #244.9.
- 22 INSTALL WHITE T-2 FILM BICYCLE SYMBOL PAVEMENT MARKING PER MUTCD 2009 PART 9 FIG. 9C-3 AND USD. DWG. #244.9.
- 23 INSTALL WHITE MEDIAN NOSE MARKINGS AS PER USD. DWG. #248.
- 24 INSTALL NEW SIGN(S) (POLE MOUNTED).
- 25 INSTALL NEW SIGN(S) (GROUND MOUNTED) AS PER USD. DWG. #249.1.
- 26 INSTALL T-2 FILM "U-TURN ARROW" SYMBOL.
- 27 INSTALL WHITE CAT TRACKS (RPM) (SEE DETAIL A, SHEET ST-01).
- 28 PAINT MEDIAN ISLAND YELLOW UP TO 2' WIDTH.
- 29 INSTALL WHITE K71 SELF RE-ERECTING MARKER POST.
- 30 INSTALL TYPE 1 CENTERLINE AS PER USD. DWG. #244 (ALL PAVEMENT MARKERS SHALL BE WHITE).

- 31 INSTALL 4" SOLID WHITE LINE (T-1 FILM).
- 32 INSTALL 8" SOLID WHITE LINE (T-2 FILM).
- 33 REMOVE AND RESET SIGN(S).
- 34 INSTALL YELLOW K71 SELF RE-ERECTING MARKER POST.
- 35 INSTALL WHITE T-2 FILM MERGE ARROW AS PER NDOT STD. PLAN T-38.1.1.
- 36 INSTALL 6" SOLID WHITE LINE (EPOXY PAINT) AS PER USD. DWG. #244.9.
- 37 INSTALL 6" WHITE SKIP LINE (EPOXY PAINT) AS PER USD. DWG. #244.9.
- 38 INSTALL 4" DIAGONAL WHITE LINE @ 40' O.C. (WATERBORNE PAINT).
- 39 INSTALL 4" SOLID WHITE LINE (EPOXY PAINT) AS PER USD. DWG. #244.9.
- 40 INSTALL 4" WHITE SKIP LINE (EPOXY PAINT) AS PER USD. DWG. #244.9.
- 41 INSTALL TRANSITION SECTION (EPOXY PAINT) AS PER USD. DWG. #245 (3 OF 3).
- 42 INSTALL TRANSITION SECTION (EPOXY PAINT) AS PER USD. DWG. #245 (2 OF 3).
- 43 INSTALL BICYCLE DETECTOR LOOP (SEE DETAIL 1, SHEET ST-06). BICYCLE LOOP CONNECTION TO LOOP LEAD-IN BY CLV. PROVIDE A MIN. OF 5' OF LOOP LEADS COILED IN LOOP PULL BOX.
- 44 INSTALL COMPRESSED WHITE T-2 FILM "ARROW" SYMBOL PER MUTCD 2009 PART 3.

- 45 REFRESH EXISTING RED PAINTED CURB WITH NEW PAINT.
- 46 INSTALL WHITE T-2 FILM "SHARK TOOTH" YIELD LINE PER MUTCD 2009 PART 3 FIG. 3B-16.
- 47 EXISTING SIGN TO REMAIN IN PLACE.



DEPARTMENT OF OPERATIONS AND MAINTENANCE	
DIRECTOR OF DEPARTMENT OF OPERATIONS AND MAINTENANCE JERRY WALKER, P.E.	
DESIGNED BY: JSR	CHECKED BY: RWC
DRAWN BY: JAS	DATE: 10/2/17
DURANGO DRIVE - FARM ROAD TO BRENT LANE	
STRIPING PLAN	
"DD" 51+00.00 TO "DD" 69+50.00	
SHEET: 11 of 14	
BID NO.	

TITLE: DURANGO DRIVE FARM ROAD TO BRENT LANE STRIPING PLAN "DD" 51+00.00 TO "DD" 69+50.00

SHEET: 11 of 14

SEAL: RANDY W. CARROLL, CIVIL ENGINEER, No. 16151, Exp. 12/31/2018

NO.	REVISIONS	DATE

A	REMOVE EXISTING TRAFFIC DELINEATION, MARKINGS AND SYMBOLS.
B	SAWCUT AND REMOVE EXISTING ISLAND AND ISLAND NOSE FROM CROSSWALK PATH.
C	REMOVE AND SALVAGE SIGN(S).

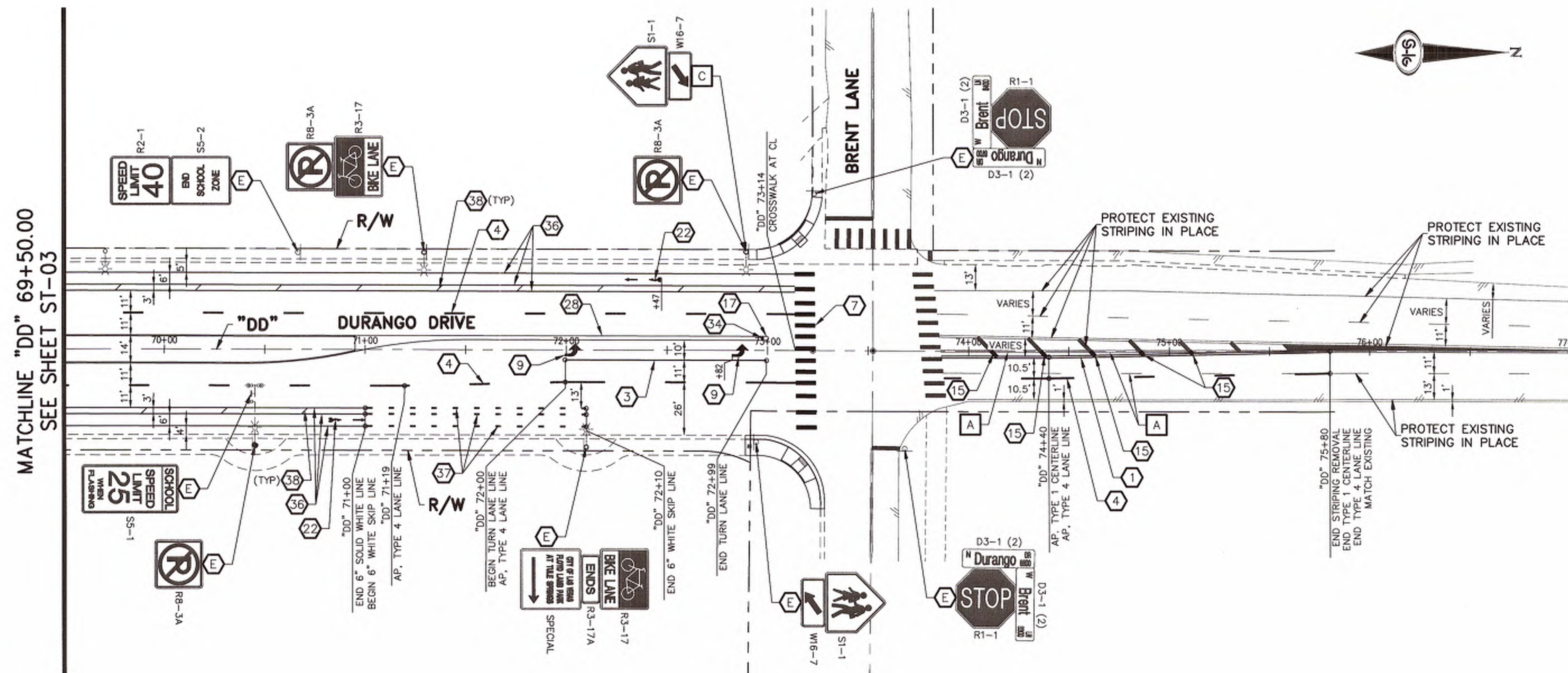
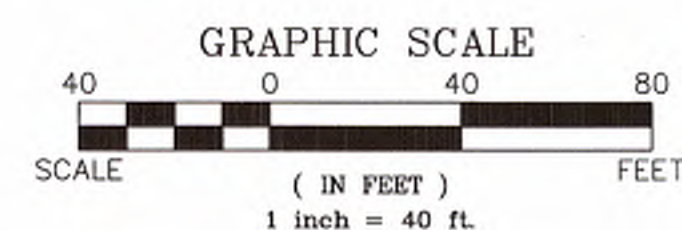
1. ALL LANE LINE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN ISLAND UNLESS OTHERWISE NOTED.

- 1 INSTALL TYPE 1 CENTERLINE AS PER USD. DWG. #244.
- 2 INSTALL TYPE 2 CENTERLINE AS PER USD. DWG. #244.
- 3 INSTALL TURN LANE LINE (RPM) AS PER USD. DWG. #246.
- 4 INSTALL TYPE 4 LANE LINE AS PER USD. DWG. #244.1.
- 5 INSTALL 6" SOLID WHITE LINE (T-2 FILM) AS PER USD. DWG. #244.9.
- 6 INSTALL WHITE T-2 FILM SCHOOL CROSSWALK PER USD. DWG. #254.1.51.
- 7 INSTALL WHITE T-2 FILM CROSSWALK PER USD. DWG. #254.
- 8 INSTALL WHITE T-2 FILM STOP BAR PER USD. DWG. #254.
- 9 INSTALL WHITE T-2 FILM "ARROW" SYMBOL PER MUTCD 2009 PART 3 AND USD. DWG. #246.
- 10 INSTALL WHITE T-2 FILM LANE LINE (3' SEGMENTS AND 9' GAPS).
- 11 INSTALL WHITE T-2 FILM "ONLY" LEGEND PER MUTCD 2009 PART 3 AND USD. DWG. #246.6.
- 12 INSTALL TRAFFIC LOOP DETECTOR AS PER USD. DWG. #826, 827, 828, AND 834.
- 13 INSTALL WHITE T-2 FILM STRIPING PER USD. DWG. #245.
- 14 INSTALL TRANSITION SECTION (T-2 FILM) AS PER USD. DWG. #245 (3 OF 3).
- 15 INSTALL TRANSITION SECTION (T-2 FILM) AS PER USD. DWG. #245 (2 OF 3).

- | | |
|----|--|
| 16 | INSTALL FORCED TURN LANE LINE (RPM) AS PER USD. DWG. #246.6. |
| 17 | INSTALL YELLOW MEDIAN NOSE MARKINGS AS PER USD. DWG. #248. |
| 18 | INSTALL MEDIAN ISLAND NOSE NOT TO ENCRATCH INTO CROSSWALK PATH. |
| 19 | INSTALL FIRE HYDRANT MARKER PER CITY OF LAS VEGAS FIRE CODE. |
| 20 | INSTALL RIGHT TURN ONLY LANE PER MUTCD 2009 PART 9 FIG. 9C-4. |
| 21 | INSTALL 6" WHITE SKIP LINE (T-2 FILM) AS PER USD. DWG. #244.9. |
| 22 | INSTALL WHITE T-2 FILM BICYCLE SYMBOL PAVEMENT MARKING PER MUTCD 2009 PART 9 FIG. 9C-3 AND USD. DWG. #244.9. |
| 23 | INSTALL WHITE MEDIAN NOSE MARKINGS AS PER USD. DWG. #248. |
| 24 | INSTALL NEW SIGN(S) (POLE MOUNTED). |
| 25 | INSTALL NEW SIGN(S) (GROUND MOUNTED) AS PER USD. DWG. #249.1. |
| 26 | INSTALL T-2 FILM "U-TURN ARROW" SYMBOL. |
| 27 | INSTALL WHITE CAT TRACKS (RPM) (SEE DETAIL A, SHEET ST-01). |
| 28 | PAINT MEDIAN ISLAND YELLOW UP TO 2' WIDTH. |
| 29 | INSTALL WHITE K71 SELF RE-ERECTING MARKER POST. |
| 30 | INSTALL TYPE I CENTERLINE AS PER USD. DWG. #244 (ALL PAVEMENT MARKERS SHALL BE WHITE). |

- | | | | |
|----|--|----|----------|
| 31 | INSTALL 4" SOLID WHITE LINE (T-1 FILM). | 45 | REF |
| 32 | INSTALL 8" SOLID WHITE LINE (T-2 FILM). | 46 | INST PER |
| 33 | REMOVE AND RESET SIGN(S). | E | EXIS |
| 34 | INSTALL YELLOW K71 SELF RE-ERECTING MARKER POST. | | |
| 35 | INSTALL WHITE T-2 FILM MERGE ARROW AS PER NOTD STD. PLAN T-38.11 | | |
| 36 | INSTALL 6" SOLID WHITE LINE (EPOXY PAINT) AS PER USD. DWG. #244.9. | | |
| 37 | INSTALL 6" WHITE SKIP LINE (EPOXY PAINT) AS PER USD. DWG. #244.9. | | |
| 38 | INSTALL 4" DIAGONAL WHITE LINE @ 40° O.C. (WATERBORNE PAINT). | | |
| 39 | INSTALL 4" SOLID WHITE LINE (EPOXY PAINT) AS PER USD. DWG. #244.9. | | |
| 40 | INSTALL 4" WHITE SKIP LINE (EPOXY PAINT) AS PER USD. DWG. #244.9. | | |
| 41 | INSTALL TRANSITION SECTION (EPOXY PAINT) AS PER USD. DWG. #245 (3 OF 3). | | |
| 42 | INSTALL TRANSITION SECTION (EPOXY PAINT) AS PER USD. DWG. #245 (2 OF 3). | | |
| 43 | INSTALL BICYCLE DETECTOR LOOP (SEE DETAIL 1, SHEET ST-06). BICYCLE LOOP CONNECTION TO LOOP LEAD-IN BY CLV. PROVIDE A MIN. OF 5' OF LOOP LEADS COILED IN LOOP PULL BOX. | | |
| 44 | INSTALL COMPRESSED WHITE T-2 FILM "ARROW" SYMBOL PER MUTCD 2009 PART 3. | | |

- | | |
|----|--|
| 45 | REFRESH EXISTING RED PAINTED CURB WITH NEW PAINT |
| 46 | INSTALL WHITE T-2 FILM "SHARK TOOTH" YIELD LINE
PER MUTCD 2009 PART 3 FIG. 3B-16. |
| E | EXISTING SIGN TO REMAIN IN PLACE. |



TITLE:

Sheet
ST-04
12 of 14
BID NO.

DEPARTMENT OF OPERATIONS
AND MAINTENANCE

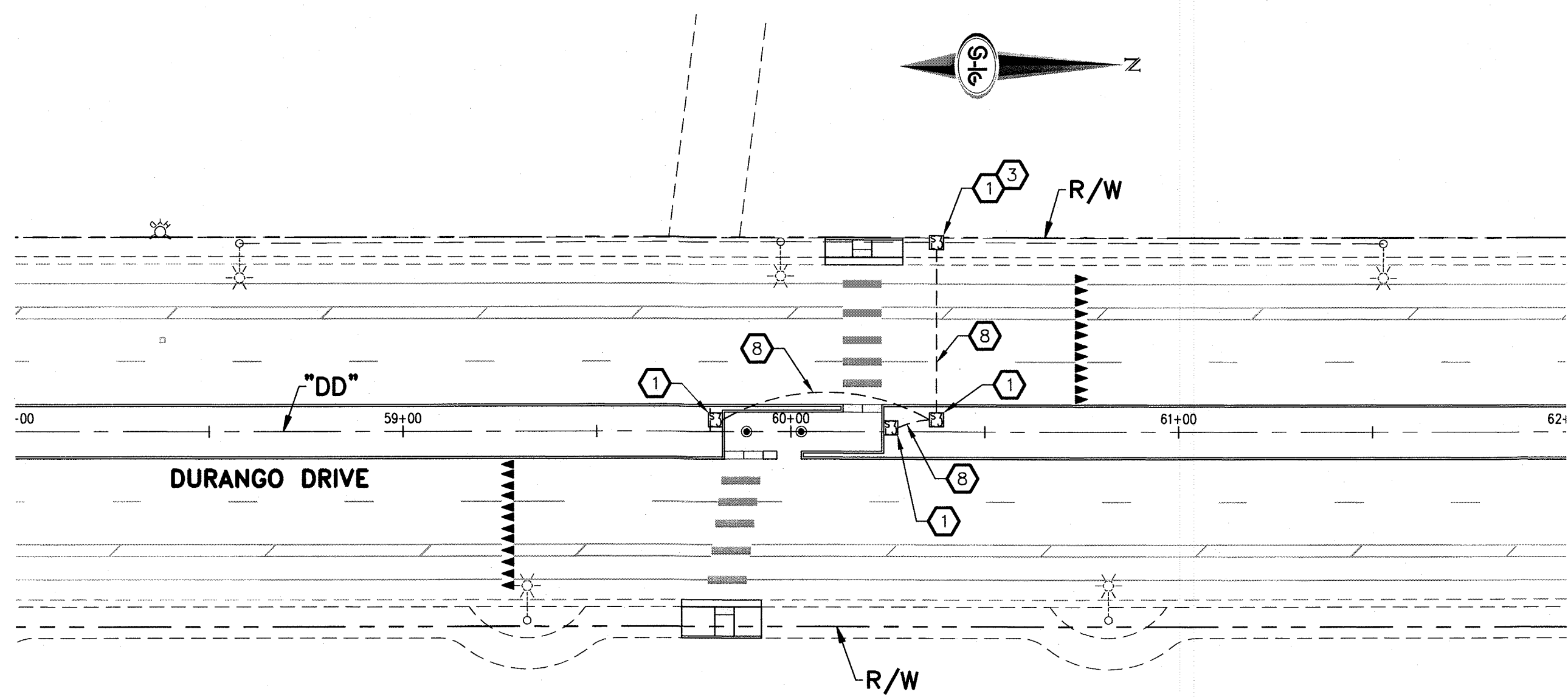
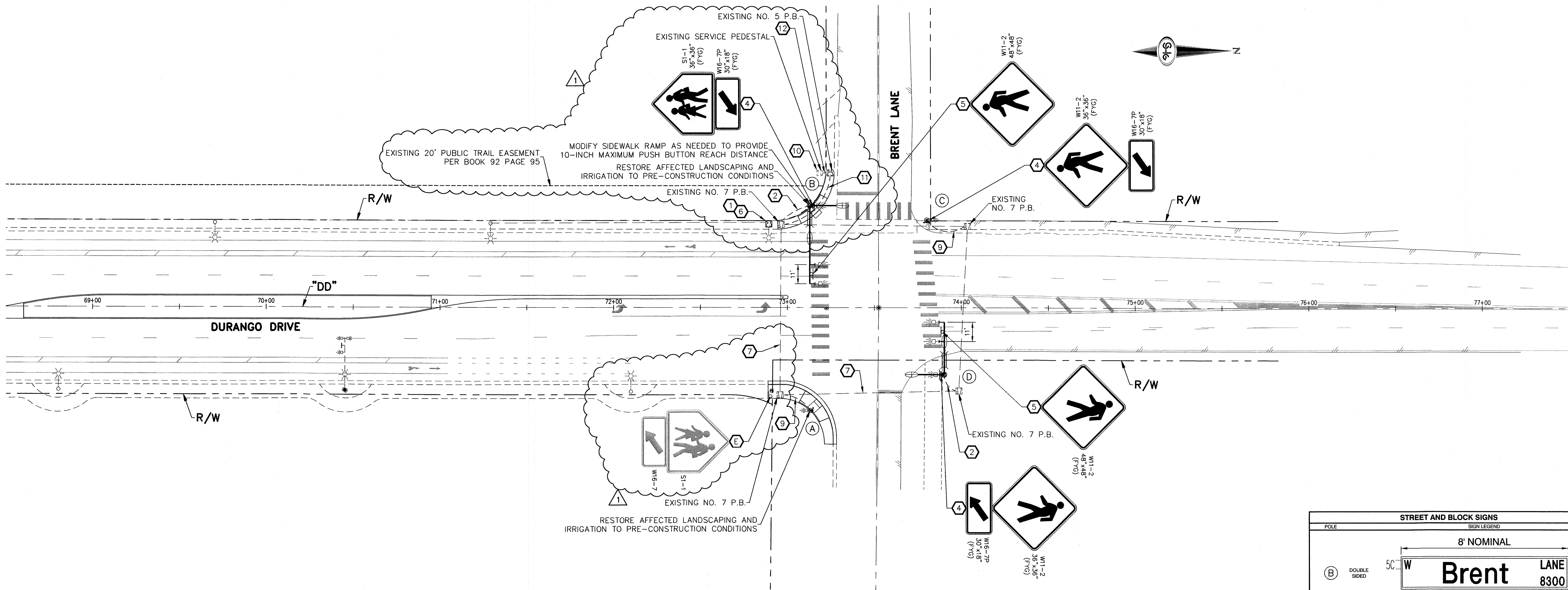
DIRECTOR OF DEPARTMENT OF OPERATIONS AND MAINTENANCE
JERRY WALKER, P.E.

DESIGNED BY: JSR
DRAWN BY: JAS
CHECKED BY: RWC

DATE: 10/2/17

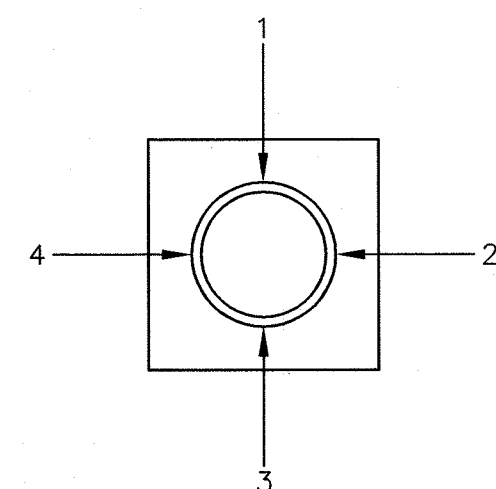
FOURANGO DRIVE - FARM ROAD TO BRENT LANE

CLV DWG No. 107v7381



CONSTRUCTION ITEMS:

1. INSTALL NO. 3-1/2 PULL BOX (LIGHTING) PER USD. #326.
2. INSTALL 3" CONDUIT, 4-#10, 1-#8 GROUND.
3. INTERCEPT EXISTING STREETLIGHT CONDUIT FOR NEW PULL BOX INSTALLATION AND MAINTAIN EXISTING STREETLIGHT CIRCUIT.
4. INSTALL NEW SIGN(S) (POLE MOUNTED).
5. INSTALL NEW SIGN(S) (MAST ARM MOUNTED).
6. REMOVE AND SALVAGE EXISTING STREETLIGHT. REMOVE FOUNDATION TO 18-INCHES BELOW FINISH GRADE. SPLICE NEW CONDUCTORS TO EXISTING TO MAINTAIN EXISTING STREETLIGHT CIRCUIT.
7. INSTALL 4-#10, 1-#8 GROUND IN EXISTING CONDUIT.
8. INSTALL 3" CONDUIT WITH 1-#8 AWG.
9. INSTALL 2" CONDUIT WITH 1-#8 AWG.
10. INSTALL 40 AMP SINGLE POLE BREAKER IN EXISTING SERVICE PEDESTAL.
11. INSTALL 3" CONDUIT, 8-#10, 1-#8 GROUND.
12. INSTALL 8-#10, 1-#8 GROUND IN EXISTING CONDUIT.
- E. EXISTING SIGN TO REMAIN IN PLACE.



QUADRANT LOCATOR
ARM OR SIGNAL LOCATION (TOP VIEW)

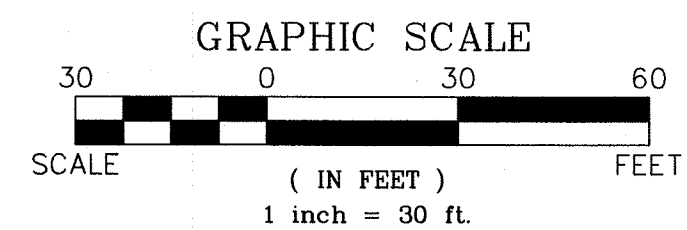
STREET AND BLOCK SIGNS	
POLE	SIGN LEGEND
B	DOUBLE SIDED
	8' NOMINAL
D	DOUBLE SIDED
	12' NOMINAL
	94-3/4" MIN

POLE SCHEDULE									
POLE	LOCATION	TYPE	POLE				PEDESTRIAN PUSH BUTTON		REMARKS
			SIGNAL QUAD.	ARM LENGTH	LUM. QUAD.	ARM LENGTH	QUAD.	SIGN	
A	DURANGO "DD" 73+13 59.0' RT N: 680888.44 E: 236241.73	1-A**	-	-	-	-	2	2/TS-02	INSTALL AB-9200 SERIES SOLAR RFRB (YELLOW) BY JSF TECHNOLOGIES OR APPROVED EQUAL FACING SOUTH PER MANUFACTURER RECOMMENDATION. INSTALL BULLDOG PUSH BUTTON BY JSF TECHNOLOGIES OR APPROVED EQUAL PER MANUFACTURER RECOMMENDATION. INSTALL CRASH CAP FLUSH WITH RAMP CURB FACE.
B	DURANGO "DD" 73+13 58.7' LT N: 680889.02 E: 236124.07	XX-A	3	45'	2	15'	2	2/TS-02	INSTALL AB-9200 SERIES SOLAR RFRB (YELLOW) FACING NORTH ON POLE AND (2) AB-9200 SERIES SOLAR RFRB (YELLOW)(CUSTOM) MAST ARM MOUNTED BY JSF TECHNOLOGIES OR APPROVED EQUAL PER MANUFACTURER RECOMMENDATION. INSTALL BULLDOG PUSH BUTTON BY JSF TECHNOLOGIES OR APPROVED EQUAL PER MANUFACTURER RECOMMENDATION. INSTALL INTERNALLY ILLUMINATED STREET NAME SIGN ON MAST ARM. INSTALL CRASH CAP FLUSH WITH SIDEWALK/TRAIL AND MATCH CROSS-SLOPE (2% MAX).
C	DURANGO "DD" 73+80 50.5' LT N: 680956.16 E: 236132.98	1-A**	-	-	-	-	3	2/TS-02	INSTALL AB-9200 SERIES SOLAR RFRB (YELLOW) BY JSF TECHNOLOGIES OR APPROVED EQUAL FACING NORTH PER MANUFACTURER RECOMMENDATION. INSTALL BULLDOG PUSH BUTTON BY JSF TECHNOLOGIES OR APPROVED EQUAL PER MANUFACTURER RECOMMENDATION. INSTALL CRASH CAP FLUSH WITH ASPHALT PATH.
D	DURANGO "DD" 73+90 58.3' RT N: 680965.52 E: 236221.70	XX-A	1	30'	4	15'	4	2/TS-02	INSTALL AB-9200 SERIES SOLAR RFRB (YELLOW) FACING SOUTH ON POLE AND (2) AB-9200 SOLAR RFRB (YELLOW)(CUSTOM) MAST ARM MOUNTED BY JSF TECHNOLOGIES OR APPROVED EQUAL PER MANUFACTURER RECOMMENDATION. INSTALL BULLDOG PUSH BUTTON BY JSF TECHNOLOGIES OR APPROVED EQUAL PER MANUFACTURER RECOMMENDATION. INSTALL INTERNALLY ILLUMINATED STREET NAME SIGN ON MAST ARM. COORDINATE POLE LOCATION WITH BRENT LANE TRAIL CURRENTLY UNDER CONSTRUCTION. INSTALL CRASH CAP FLUSH WITH SIDEWALK/TRAIL AND MATCH CROSS-SLOPE (2% MAX).

1-#8 AWG GROUNDING WIRE SHALL BE RUN FROM THE SERVICE PEDESTAL TO EACH POLE BASE. PROVIDE AND INSTALL SOLAR ENGINES AND PUSH BUTTONS PER MANUFACTURER RECOMMENDATION.
* LUMINAIRE PHILLIPS ROADFOCUS RFL-241W12LED4K-1-R3M-UNIV-DWG-RCD-GY3 & GE EVOLVE ERS2-0-16-E1-X-40-E-GRAY-FLRGPB OR APPROVED EQUAL.
** MODIFIED 1-A POLE PER USDCCA STD. DWG. NO. 806 WITH 15' HEIGHT. INSTALL POLE ON MODIFIED TYPE "C" FOUNDATION PER USDCCA STD. DWG. NO. 717 WITH 48" DEPTH.

SIGNAL NOTES

1. ALL WORK PERFORMED ON ANY TRAFFIC SIGNAL COMPONENT MUST BE UNDER THE DIRECT ON-SITE SUPERVISION OF AN IMSA CERTIFIED TECHNICIAN LEVEL II.
2. 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 PROPER LOCATION. THE DEPTH BELOW GRADE OF THE VARIOUS UTILITIES DEPICTED ON THE PLANS VARIES THROUGHOUT THE PROJECT AREA.
3. ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA, NEVADA, VOLUMES I AND II, ADOPTED BY THE REGIONAL TRANSPORTATION COMMISSION APRIL 8, 1992 WITH ALL SUBSEQUENT REVISIONS.
4. ALL PUSH BUTTONS TO BE MOUNTED 42 INCHES ABOVE SIDEWALK. THE MAXIMUM HORIZONTAL REACH DISTANCE IS TO BE 10".
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND AND AERIAL UTILITIES.
6. THE CONTRACTOR SHALL POTHOLE PROPOSED POLE LOCATIONS PRIOR TO ORDERING EQUIPMENT.
7. THE INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE WIRED TO THE LUMINAIRE'S PHOTO CELL FOR CONTROL WITH #10 AWG THW COPPER STRANDED WIRE (TYPICAL). THE SIGN SHALL BE WIRED TO THE LUMINAIRE DIRECTLY ABOVE IT. IN THE EVENT THERE IS NO LUMINAIRE ON THE TRAFFIC SIGNAL POLE, THE 1000 WATT P.E. CONTROL SHALL BE MOUNTED ON THE POLE CAP. ALL NEW ILLUMINATED STREET NAME SIGNS SHALL HAVE LIGHT EMITTING DIODE (LED) LAMPS PER SECTION 623.1.02.16 OF THE SPECIAL PROVISIONS.



NO.

REVISIONS

DATE

11/7/17

DEPARTMENT OF OPERATIONS AND MAINTENANCE

DIRECTOR OF DEPARTMENT OF OPERATIONS AND MAINTENANCE
JERRY WALKER, P.E.

DESIGNED BY: JSR

DRAWN BY: JAS

CHECKED BY: RWC

DATE: 10/2/17

DURANGO DRIVE - FARM ROAD TO BRENT LANE

TITLE:

DURANGO DRIVE
FARM ROAD TO BRENT LANE

SHEET:

PEDESTRIAN FLASHER PLAN
"DD" 58+00.00 TO "DD" 77+50.00

SEAL

RANDY W. CARROLL

Exp. 12/31/2018

CIVIL

STATE OF NEVADA

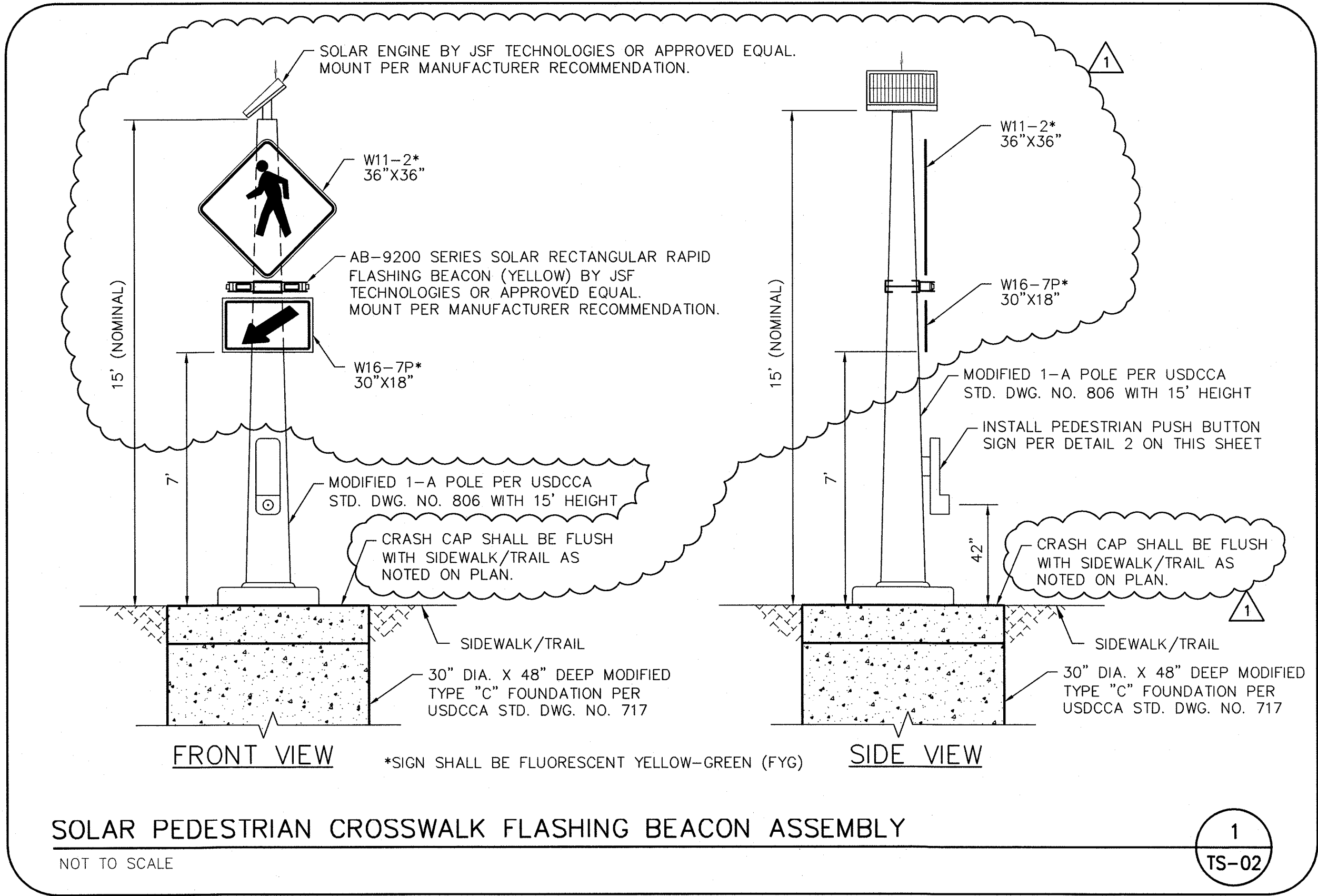
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TS-01

13 of 14

BID NO.

CLV DWG No. 107V7381



TITLE:		DURANGO DRIVE FARM ROAD TO BRENT LANE		NO.		REVISIONS		DATE	
SHEET:		PEDESTRIAN FLASHER DETAILS		1		REVISED FLASHER DESIGN		11/7/17	
									
Sheet		TS-02							
14		of		14					
BID NO.									