

Plotted By Zito, Jolynn Sheet Set.kha Layout: C3 October 06, 2017 09:48:53am W:\61153_LAURICH\DWG\MPROWS\OFFSITE\01-61153-C1.dwg
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CONSTRUCTION QUANTITIES				
NO	ITEM	UNIT	PUBLIC	PRIVATE
①	CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216	LF	1,248	71
②	SAWOUT NEAT & MATCH EXISTING	LF	930	-
③	ASPHALT S/W 2" AC OVER 6" TYPE II	SF	173	-
④	CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I	EA	9	-
⑤	CONSTRUCT SIDEWALK PER CCAUSD NO. 234	SF	5,754	-
⑥	CONSTRUCT 4.5" AC OVER 5" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016	SY	3,684	-
⑦	CONSTRUCT 4" AC OVER 4" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PER CCPW HTE # 17-41363	SY	5,767	-
⑧	CONSTRUCT COMMERCIAL CURB RETURN DRIVEWAY PER CCAUSD NO. 222.1 & 225	SF	3,422	-
⑨	CONSTRUCT 8" CONCRETE VALLEY GUTTER PER CCAUSD NO. 228	SF	1,008	-
⑩	CONSTRUCT MEDIAN ISLAND PER CCAUSD DWG NO. 218 AND WITH "A" TYPE ISLAND CURB PER CCAUSD NO. 219	SF	1,627	-
⑪	DEMOLISH AND REMOVE EXISTING ASPHALT	SY	5,732	-
⑫	CONSTRUCT BUS STOP & PAD PER CCAUSD NO. 234.1, 234.2 & 234.4	SF	2,010	-
⑬	CONCRETE BARRIER PER CCAUSD NO. 237	EA	12	-
⑭	ADJUST EX. MANHOLE & COLLAR, VAULT, PULLBOX, VALVE OR BOX TO FINISHED GRADE (TYPICAL), CONTRACTOR TO VERIFY EX. LID IS TRAFFIC RATED IF APPLICABLE & PROVIDE TRAFFIC RATED LID WHERE REQUIRED	-	-	-
⑮	CONSTRUCT S/W DRAIN PER CCAUSD NO. 236	EA	2	-
⑯	CONSTRUCT 2" CONCRETE FLUME PER DETAIL 3 ON SHEET D2	EA	2	-
⑰	CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219	LF	2,385	-

TRAFFIC QUANTITIES CONTINUED				
NO	ITEM	UNIT	PUBLIC	PRIVATE
①	INSTALL TURN ARROW AND PAVEMENT MARKINGS PER CCAUSD #246	EA	13	-
②	INSTALL 24" WIDE STOP BAR AND/OR CROSSWALK MARKINGS PER CCAUSD #254	LF	84	-
③	INSTALL LANE DELINEATION WITH 24" CHEVRONS PER CCAUSD #245	LF	272	-
④	INSTALL 24"x30" R3-4 (NO U-TURN SIGN)	EA	1	-
⑤	INSTALL TYPE 4 LANE LINE	LF	1,320	-
⑥	INSTALL 24"x30" R2-1 (SPEED LIMIT SIGN)	EA	2	-
⑦	INSTALL 12"x18" R7-1 (NO PARKING SIGN)	EA	4	-
⑧	INSTALL FORCED LEFT MARKER OR RIGHT TURN STORAGE LANE MARKER PER CCAUSD #246.6	EA	6	-
⑨	INSTALL 30"x30" R3-7R (RIGHT TURN ONLY)	EA	2	-
⑩	INSTALL 24"x36" R3-52P (BUS EXEMPT SIGN)	EA	2	-
⑪	NOT USED	-	-	-
⑫	INSTALL BICYCLE LANE APPROACH TO EXCLUSIVE RIGHT TURN LANE PER CCAUSD #246.1	EA	1	-
⑬	INSTALL LED FIXTURE CA22-LE-160 LA-AW-UMIV-BLP PER TOWN CENTER STDS. POLE AND FOUNDATION PER CCAUSD #314, #320 & #321	EA	7	-
⑭	INSTALL 1-1/4" PVC STREET LIGHT CONDUIT AND WIRE	LF	1,256	-
⑮	INSTALL R4-4 (BEGIN RIGHT TURN LANE YIELD TO BIKERS)	EA	1	-
⑯	INSTALL R3-17 (RIGHT TURN BIKERS ONLY)	EA	1	-
⑰	INSTALL R5-1 (DO NOT ENTER)	EA	1	-
⑱	INSTALL R3-2 (NO LEFT TURNS)	EA	1	-
⑲	INSTALL 6" SOLID WHITE LINE (TAPE OR PAINT)	LF	794	-
⑳	INSTALL BICYCLE LANE DELINEATION PER CCAUSD #244.9	EA	10	-
㉑	INSTALL MEDIAN NOSE MARKINGS PER CCAUSD #248 & K-71 FLEXIBLE MARKER POST	EA	7	-
㉒	INSTALL FLASHING YELLOW ARROW U-TURN SIGNAL WITH U-TURN YIELD SIGN	EA	1	-
㉓	OBLITERATE EXISTING STRIPING	LF	1,074	-
㉔	INSTALL 15' MAST ARM 250W STREETLIGHT AND FOUNDATION PER CCAUSD #316, #320, AND #321	EA	1	-
㉕	INSTALL 4" F.A.S.T. INTERCONNECT CONDUIT CONTAINING (1) #8 BARE WIRE	LF	1231	-
㉖	INSTALL P-30 PULL BOX PER CCAUSD #326	EA	2	-
㉗	INSTALL R6-1R (ONE WAY)	EA	1	-
㉘	INSTALL R3-16A (BIKE LANE ENDS)	EA	1	-

WATER CONSTRUCTION QUANTITIES				
NO	ITEM	UNIT	PUBLIC	PRIVATE
①	WET TAP EX. 10" PVC WATER WITH 10"x 10" TAPPING SLEEVE W/ 10" TAPPING VALVE PER UDACS SECTION 2.24.01A, EXCAVATE PER UDACS PLATE 17, 19 & 34.	EA	2	-
②	INSTALL 10" PVC WL - C900, CLASS 150	LF	46	-
③	STUB & CAP - FOR FUTURE CONTINUATION	EA	3	-
④	INSTALL CAP & 2" MANUAL BLOW OFF ASSEMBLY PER UDACS PLATE 36	EA	3	-
⑤	INSTALL FIRE HYDRANT PER UDACS PLATE 40	EA	1	-
⑥	INSTALL 10" x 6" TEE W/ 6" GATE VALVE, 10" GATE VALVE, AND 10" x 8" TEE W/ 8" GATE VALVE PER UDACS PLATE 30, 31 & 39	EA	1	-
⑦	INSTALL 6" PVC WL - C900, CLASS 150	LF	14	-
⑧	RELOCATE FIRE HYDRANT PER NOTE ON SHEET P1	EA	1	-
⑨	ADJUST EX GATE VALVE TO GRADE PER UDACS PLATE 39	EA	6	-
⑩	INSTALL 6" RESTRAINED JOINT (RJ) DIP WL - CLASS 350	LF	15	-
⑪	ADJUST TO FINAL GRADE, 2" BLOW OFF PER UDACS PLATE 36	EA	1	-



CALL BEFORE YOU DIG
1-702-227-2929

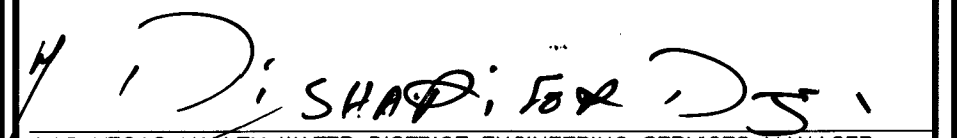


FAST
Call before you dig
UnderGround
1-702-432-5300



Call before you Dig
1-800-227-2600

APPROVED FOR CONSTRUCTION



LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NUMBER 125105 DATE: 10/19/17
APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

CLV#: 10707108 CC#: HTE: 17-41363
CLV#: 67712

QUANTITIES

COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI

KHA PROJECT
61153.52

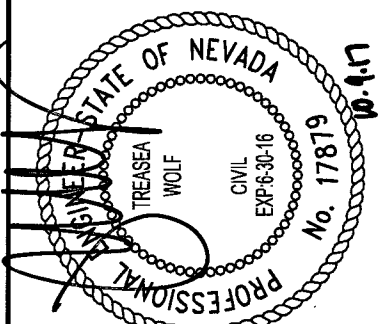
DATE
10/6/17

SCALE AS SHOWN

DESIGNED BY JZ

DRAWN BY JZ

CHECKED BY TW



STATE OF NEVADA
KIMLEY-HORN
PROFESSIONAL ENGINEER
No. 17819

Kimley-Horn
6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

REVISIONS

No.	DATE	BY

3 OF 17 SHEETS

C3

PROJ#: 125105 AGREE: 116197 QS: 125-19-SW

Plotted By: Zita, Jolynn, Sheet: S&K, Date: 06/10/2017, 09:50:42am, W: 61533 LAURICH.DWG, IMPRWDWG, OFFSITE-05-61153-P1.dwg
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BASIS OF BEARINGS

NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

LEGEND & ABBREVIATIONS

SEE COVER SHEET FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION

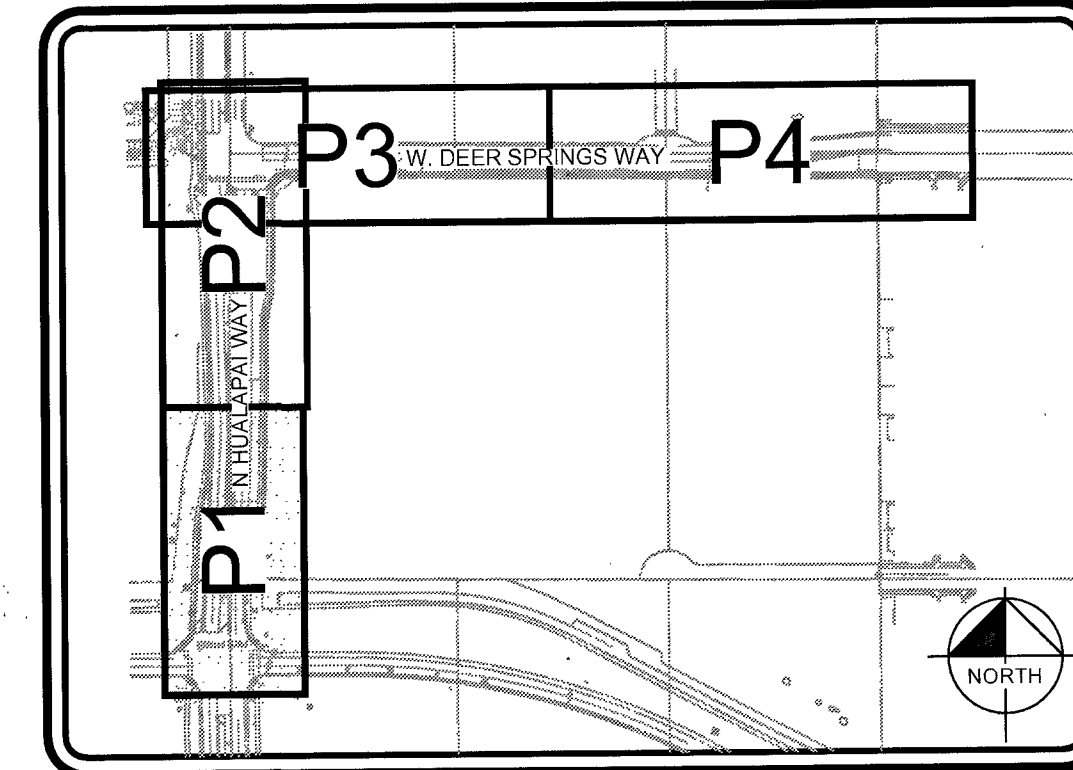
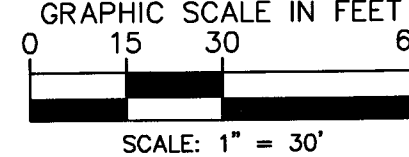
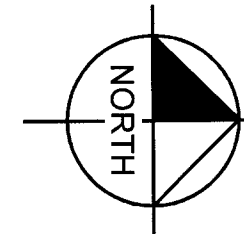
SEE COVER SHEET FOR FULL LEGAL DESCRIPTION.

BENCHMARK

BENCHMARK: 12LV99 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.066m = 2815.175ft. (NAVD 88)

FLOODZONE

THE PARCEL DESCRIBED HEREON LIES WITHIN THE FLOOD HAZARD ZONE HAVING A ZONE DESIGNATION OF "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) BY THE SECRETARY OF HOUSING AND URBAN DEVELOPMENT, AS SHOWN PER FEMA MAPS, NO. 32003C1750 E AND NO. 32003C1745 E BOTH DATED SEPTEMBER 27, 2002.



KEY MAP
N.T.S.

CONDITIONAL APPROVAL OF VALVED OUTLET (6" AND LARGER)

THE WATER PLANS SHOW ONE OR MORE VALVED OUTLETS EXTENDING OUT OF PAVED AREAS. INSTALLATION OF THESE OUTLETS IS ACCEPTABLE, HOWEVER, IF THE OUTLETS ARE INCORRECTLY LOCATED OR NOT USED FOR ANY REASON WHEN THE PROPERTY IS ACTUALLY DEVELOPED, THE DEVELOPER SHALL ABANDON THE OUTLETS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH THE DISTRICT'S STANDARDS AND AT THE DEVELOPER'S EXPENSE. APPROVAL OF THE VALVED OUTLET DOES NOT PROVIDE OR IMPLY A WATER COMMITMENT.

LVVWD NOTE:

THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRAIL SHUTDOWN.

CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

RELOCATION OF FIRE HYDRANTS:

(EXTENSION OF EXISTING LATERALS)
THE CONTRACTOR SHALL REMOVE AND RELOCATE BOTH THE UPPER AND LOWER BARRELS OF THE EXISTING FIRE HYDRANT(S) WHERE SHOWN. EXTEND THE EXISTING LATERALS AS REQUIRED, AND REINSTALL SUCH HYDRANT(S) AT THE NEW LOCATION(S) INDICATED. FIRE HYDRANTS SHALL BE TESTED PRIOR TO AND AFTER RELOCATION, UNDER DIRECTION OF THE DISTRICT, TO ENSURE QUALITY. INSTALLATION SHALL BE IN ACCORDANCE WITH UDACS PLATE 40. LATERALS MADE OF UNAPPROVED MATERIALS SHALL BE REPLACED FROM THE MAIN TO THE FIRE HYDRANT. RELOCATIONS WHERE THE LATERAL CANNOT BE EXTENDED SHALL BE TREATED AS NEW INSTALLATIONS.

CONSTRUCTION NOTES

NO	ITEM
1	CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUD NO. 216
2	SAWCUT NEAT & MATCH EXISTING
3	ASPHALT S/W 2" AC OVER 6" TYPE II
4	CONSTRUCT SIDEWALK RAMP PER CCAUD NO. 235 CASE I
5	CONSTRUCT SIDEWALK PER CCAUD NO. 234
6	CONSTRUCT 4.5" AC OVER 5" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016
7	CONSTRUCT 4" AC OVER 4" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PER CCPW HTE# 17-41363
8	CONSTRUCT COMMERCIAL CURB RETURN DRIVEWAY PER CCAUD NO. 222.1 & 225
9	CONSTRUCT 8" CONCRETE VALLEY GUTTER PER CCAUD NO. 228
10	CONSTRUCT MEDIAN ISLAND PER CCAUD DWG NO. 218 AND WITH "A" TYPE ISLAND CURB PER CCAUD NO. 219
11	DEMOLISH AND REMOVE EXISTING ASPHALT
12	CONSTRUCT BUS STOP & PAD PER CCAUD NO. 234.1, 234.2 & 234.4
13	CONCRETE BARRIER PER CCAUD NO. 237
14	ADJUST EX. MANHOLE & COLLAR, VAULT, PULLBOX, VALVE OR BOX TO FINISHED GRADE (TYPICAL), CONTRACTOR TO VERIFY EX. LID IS TRAFFIC RATED IF APPLICABLE & PROVIDE TRAFFIC RATED LID WHERE REQUIRED
15	CONSTRUCT S/W DRAIN PER CCAUD NO. 236
16	CONSTRUCT 2" CONCRETE FLUME PER DETAIL 3 ON SHEET D2
17	CONSTRUCT "A" TYPE CURB PER CCAUD NO. 219

WATER CONSTRUCTION NOTES

NO	ITEM
1	WET TAP EX. 10" PVC WATER WITH 10"x10" TAPPING SLEEVE W/ 10" TAPPING VALVE PER UDACS SECTION 2.24.01A, EXCAVATE PER UDACS PLATE 17, 19 & 34
2	INSTALL 10" PVC WL - C900, CLASS 150
3	STUB & CAP - FOR FUTURE CONTINUATION
4	INSTALL CAP & 2" MANUAL BLOW OFF ASSEMBLY PER UDACS PLATE 36
5	INSTALL FIRE HYDRANT PER UDACS PLATE 40
6	INSTALL 10" x 6" TEE W/ 8" GATE VALVE, 10" GATE VALVE, AND 10" x 8" TEE W/ 8" GATE VALVE PER UDACS PLATE 30, 31 & 39
7	INSTALL 6" PVC WL - C900, CLASS 150
8	RELOCATE FIRE HYDRANT PER NOTE ON SHEET P1
9	ADJUST EX GATE VALVE TO GRADE PER UDACS PLATE 39
10	INSTALL 6" RESTRAINED JOINT (RJ) DIP WL - CLASS 350
11	ADJUST TO FINAL GRADE, 2" BLOW OFF PER UDACS PLATE 36

NOTES

ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSOLETE DURING CONSTRUCTION.

ENGINEER'S NOTES:

- ALL WORK SHALL CONFORM TO THE SOILS REPORT PREPARED BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PROJECT NO. 4126J030.
- ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST EDITION.
- FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE THE TOP OF THE GUTTER (INCLUDING OPEN GRADE).
- CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION.
- THIS PLAN SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY ALL APPLICABLE GOVERNMENT AGENCIES.
- ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.
- MATCH ELEVATIONS SHOWN TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
- THIS PROJECT IS NOT PART OF AN EXISTING COMMERCIAL SUBDIVISION.
- PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES SUCH AS BUT NOT LIMITED TO THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF THE VEGETATION.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NUMBER: 125105 DATE: 10/19/17
APPROVED FIRE FLOW: 1500 GPM AT 20 PSI RESIDUAL

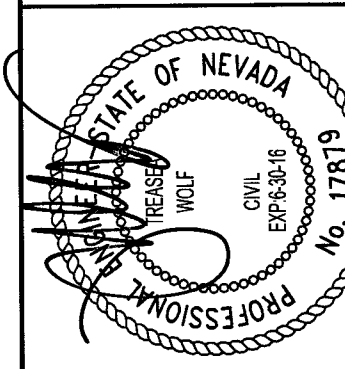
CLV#: 107V7108

CC#: HTE: 17-41363

CLV#: 67712

Kimley»Horn

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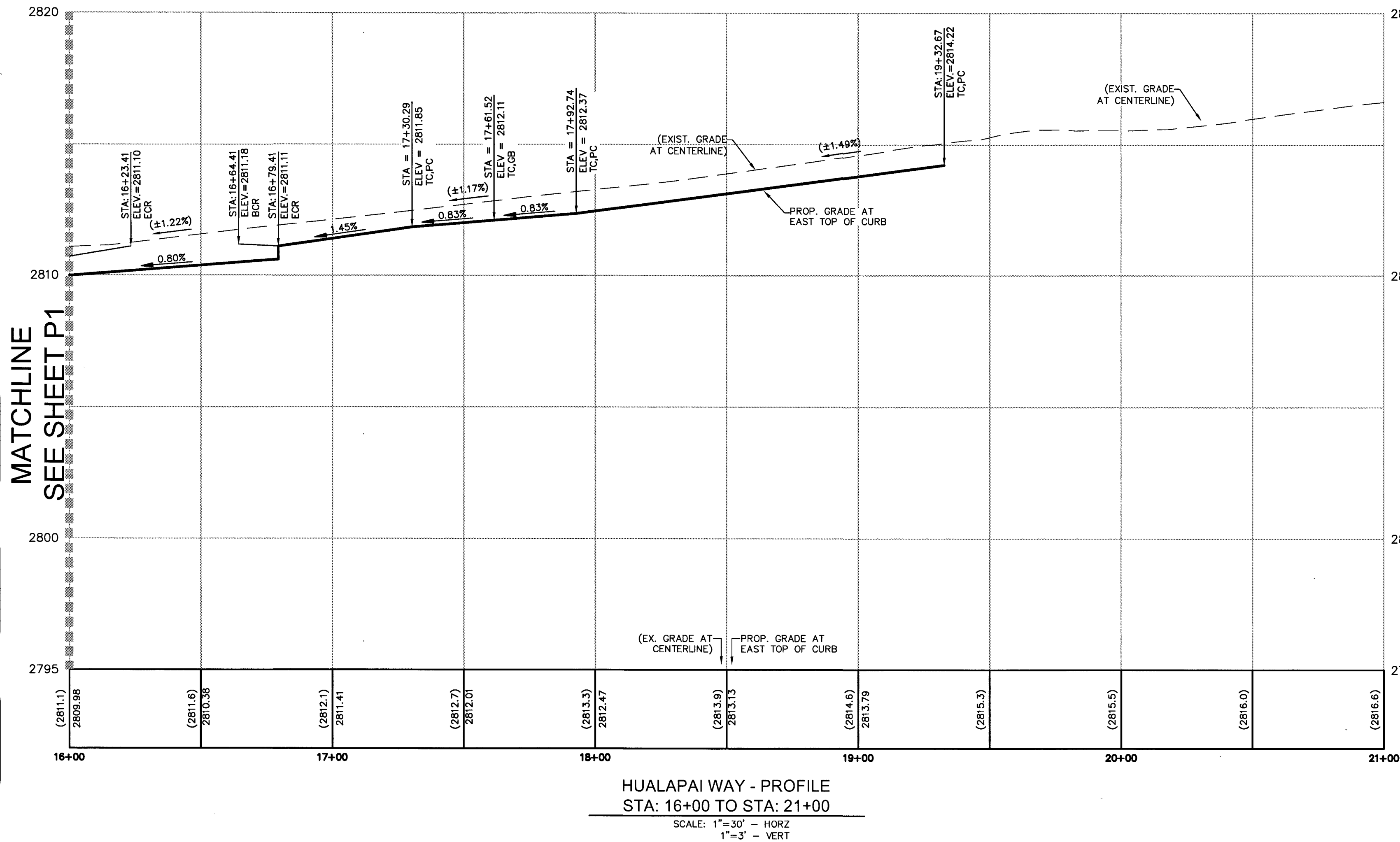


KHA PROJECT: 61153.52
DATE: 10/6/17
SCALE: AS SHOWN
DESIGNED BY: JZ
DRAWN BY: JZ
CHECKED BY: TW

PLAN & PROFILE
HUALAPAI WAY
STA: 12+00 TO STA: 16+00

COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI

Plotted By: J. Lynn, J. Lynn, Sheet Set: Rho, Layout: P2, October 06, 2017, 09:50:59am, W:\61153_LAURICH\DWG\MPRD\GWS\OFFSITE\05-61153-P1.dwg
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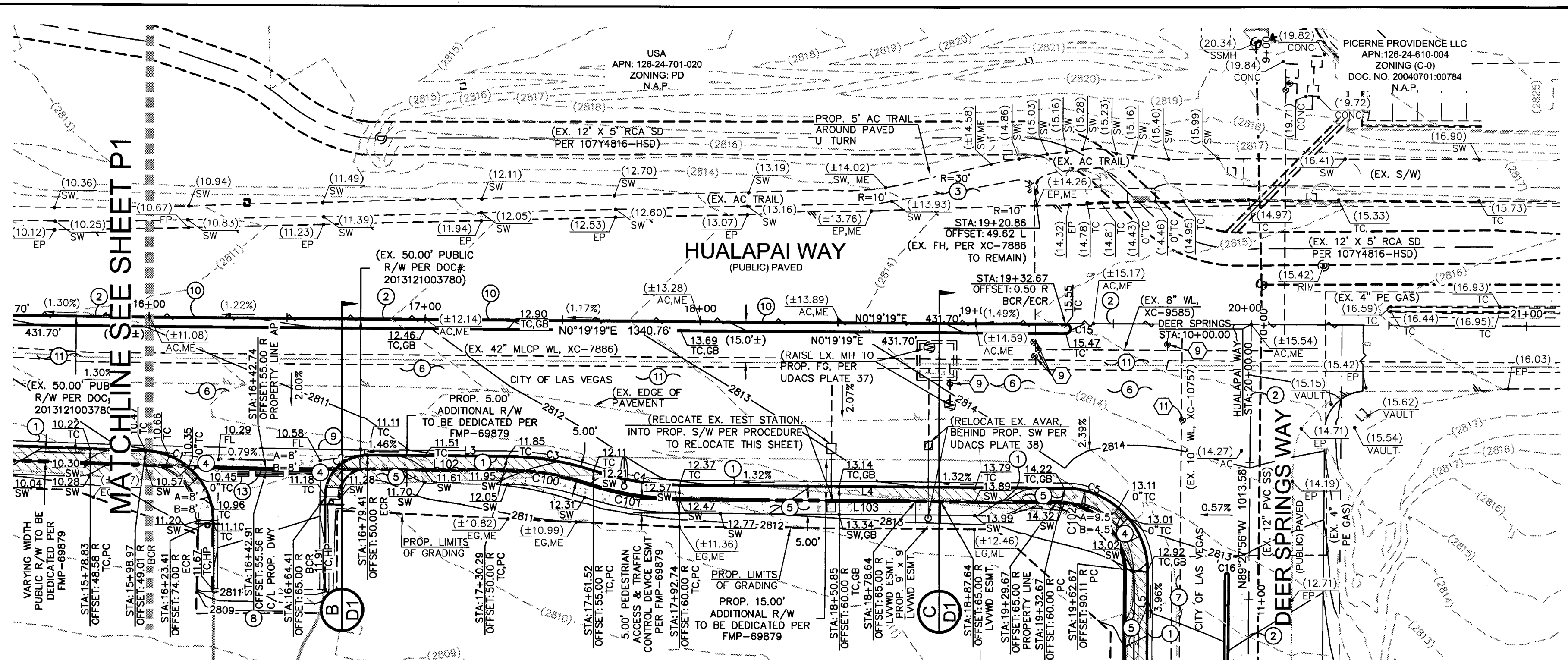
SIGHT VISIBILITY ZONES NOTE
NO WALLS, FENCES, TREES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM THE TOP OF CURB.

LEGEND & ABBREVIATIONS
SEE COVER SHEET FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION
SEE COVER SHEET FOR FULL LEGAL DESCRIPTION.

BENCHMARK
BENCHMARK: 12LV99 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.06mm = 2815.17ft. (NAVD 88)

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PROCEDURES TO RELOCATE A CORROSION TEST STATION:

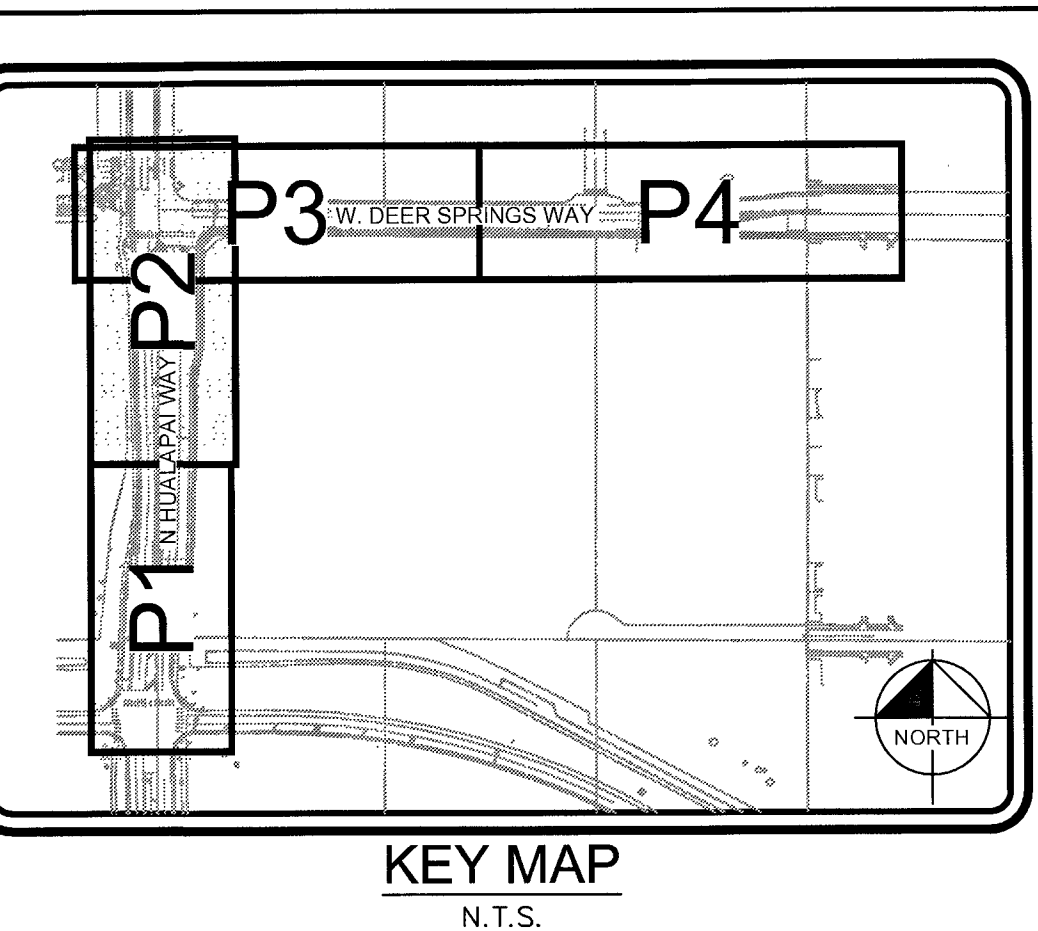
1. EXPOSE THE TEST STATION(S) AND LABEL ALL LEADS ACCORDING TO THE TYPICAL TEST BOARD DETAIL.
2. THE LEADS THAT ARE CONNECTED TO THE PIPE REQUIRE #6 COPPER WIRE WITH A HMWPE JACKET SUCH AS RAYCHEM PERMARAD.
3. THE LEAD THAT IS CONNECTED TO THE REFERENCE CELL REQUIRES #14 COPPER WIRE WITH A HMWPE JACKET SUCH AS RAYCHEM PERMARAD.
4. CONNECT THE TWO WIRES TO BE SPICED WITH A COPPER BUTT CONNECTION USING THE PROPER CRIMPING TOOL.
5. MAKE SURE SPICE USING A SCOTCHCAST RESIN SPICING KIT, DURO-CAST UNIVERSAL SPICE KIT, OR A RAYCHEM ANODE SPICE ENCLOSURE KIT.
6. RECONNECT THE TEST BOARD TO PROPER LEADS, AND PLACE THE TEST BOX AT THE NEW SITE.
7. THE TEST BOX AT THE NEW SITE WILL BE INSTALLED ACCORDING TO THE TYPICAL TEST BOX DETAIL.
8. ALL TEST LEADS AND ANODE LEADS INSIDE THE TEST BOX SHALL BE BUNDLED TOGETHER AT 12" INTERVALS WITH NYLON TIES AND SHALL BE PROVIDED WITH A MINIMUM OF 4 FEET OF SLACK.
9. ALL TEST LEADS AND ANODE LEADS SHALL BE COLOR CODED WITH COLORED TAPE AT EACH END, AND AT LEAST 4 FEET INTERVALS.
10. RELOCATED TEST STATION TO BE TESTED BY CERTIFIED CATHODIC PROTECTION SPECIALIST, CORROSION SPECIALIST, OR REGISTERED PROFESSIONAL ENGINEER. RESULTS TO BE SUBMITTED IN WRITING TO LVWD CONSTRUCTION DIVISION.

BOUNDARY LINE TABLE			OFF-SITE CURB LINE TABLE		
LINE	LENGTH	BEARING	LINE	LENGTH	BEARING
L100	88.23'	N00°19'19"E	L1	88.23'	N01°19'19"E
L101	225.06'	S01°35'42"W	L2	181.28'	N1°35'17"E
L102	87.55'	N81°27'05"E	L3	50.88'	N01°19'19"E
L103	136.93'	N00°19'19"E	L4	139.93'	N01°19'19"E
L104	141.18'	N89°27'56"W	L5	58.14'	N89°27'56"W
L105	51.96'	N79°15'39"W	L6	10.05'	N89°27'56"W
L106	100.00'	N89°27'56"W	L7	52.28'	N79°15'39"W
L107	73.77'	N81°27'05"E	L8	100.00'	N89°27'56"W
L108	150.99'	N89°15'41"E	L9	125.84'	N89°15'41"E
L109	67.74'	N89°27'56"W	L10	15.45'	N89°15'41"E
			L11	240.98'	N89°27'56"W
			L12	300.81'	N89°27'56"W
			L13	3.02'	N88°11'35"W
			L14	0.45'	N88°11'35"W
			L15	98.99'	N89°15'41"E
			L16	98.99'	N89°15'41"E
			L17	73.71'	N89°27'56"W
			L18	73.71'	N89°27'56"W
			L19	22.00'	N89°27'40"E
			L20	44.26'	N89°27'56"W
			L21	82.85'	S89°27'40"E
			L22	0.01'	N00°32'20"E

BOUNDARY CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C100	95.00'	30.17'	181°14'2"	15.21'
C101	105.00'	33.34'	181°14'2"	16.81'
C102	25.00'	39.36'	90°12'45"	25.09'
C103	17.00'	3.03'	101°21'8"	1.52'
C104	33.00'	5.88'	101°21'8"	2.95'

OFF-SITE CURB CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	25.00'	38.71'	88°43'37"	24.45'
C2	15.00'	23.56'	90°00'00"	15.00'
C3	100.00'	31.76'	181°14'2"	16.01'
C4	100.00'	31.76'	181°14'2"	16.01'
C5	30.00'	47.24'	90°12'45"	30.11'
C6	25.00'	30.33'	69°30'46"	17.35'
C7	15.00'	23.56'	90°00'00"	15.00'
C8	25.00'	4.13'	92°7'44"	2.07'
C9	25.00'	4.45'	101°21'8"	2.23'
C10	25.00'	39.27'	90°00'00"	25.00'
C11	15.00'	23.23'	88°43'37"	14.67'
C12	25.00'	39.83'	91°16'23"	25.56'
C13	15.00'	23.56'	90°00'00"	15.00'
C14	1.50'	4.71'	180°00'00"	INFINITY
C15	1.50'	4.71'	180°00'00"	INFINITY
C16	0.50'	1.57'	180°00'00"	INFINITY
C17	200.00'	65.72'	18°49'35"	33.16'
C18	10.00'	6.86'	391°7'28"	3.57'
C19	150.00'	52.62'	20°05'56"	26.58'
C20	73.00'	51.68'	40°33'50"	26.98'
C21	0.50'	1.57'	180°00'00"	INFINITY
C22	0.50'	1.57'	180°00'00"	INFINITY
C23	10.00'	5.30'	30°20'37"	2.71'
C24	11.00'	5.83'	30°20'37"	2.98'
C25	74.00'	40.83'	31°37'00"	20.95'
C26	73.00'	40.28'	31°37'00"	20.67'
C27	0.50'	1.57'	180°00'00"	INFINITY
C28	0.50'	1.57'	180°00'00"	INFINITY
C29	15.50'	18.16'	67°07'16"	10.28'
C30	2.50'	2.93'	67°07'00"	1.66'
C31	6.00'	9.43'	90°00'00"	6.00'
C32	6.00'	9.42'	90°00'00"	6.00'

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NUMBER: 125105 DATE: 10/19/17
APPROVED FIRE FLOW: 1,500 GPM AT 20 PSI RESIDUAL



CONSTRUCTION NOTES	
NO	ITEM
1	CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216
2	SAWCUT NEAT & MATCH EXISTING
3	ASPHALT S/W 2" AC OVER 6" TYPE II
4	CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I
5	CONSTRUCT SIDEWALK PER CCAUSD NO. 234
6	CONSTRUCT 4.5" AC OVER 5" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016
7	CONSTRUCT 4" AC OVER 4" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PER CCWP HTE# 17-41363
8	CONSTRUCT COMMERCIAL CURB RETURN DRIVEWAY PER CCAUSD NO. 222.1 & 225
9	CONSTRUCT 8" CONCRETE VALLEY GUTTER PER CCAUSD NO. 228
10	CONSTRUCT MEDIAN ISLAND PER CCAUSD DWG NO. 218 AND WITH "A" TYPE ISLAND CURB PER CCAUSD NO. 219
11	DEMOLISH AND REMOVE EXISTING ASPHALT
12	CONSTRUCT BUS STOP & PAD PER CCAUSD NO. 234.1, 234.2 & 234.4
13	CONCRETE BARRIER PER CCAUSD NO. 237
14	ADJUST EX. MANHOLE & COLLAR, VAULT, PULLBOX, VALVE OR BOX TO FINISHED GRADE (TYPICAL). CONTRACTOR TO VERIFY EX. LID IS TRAFFIC RATED IF APPLICABLE & PROVIDE TRAFFIC RATED LID WHERE REQUIRED
15	CONSTRUCT S/W DRAIN PER CCAUSD NO. 236
16	CONSTRUCT 2" CONCRETE FLUME PER DETAIL 3 ON SHEET D2
17	CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219

WATER CONSTRUCTION NOTES	
NO	ITEM
1	WET TAP EX: 10" PVC WATER WITH 10" x 10" TAPPING SLEEVE W/ 10" TAPPING VALVE PER UDACS SECTION 2.24.01A, EXCAVATE PER UDACS PLATE 17, 19 & 34.
2	INSTALL 10" PVC WL - C900, CLASS 150
3	STUB & CAP - FOR FUTURE CONTINUATION
4	INSTALL CAP & 2" MANUAL BLOW OFF ASSEMBLY PER UDACS PLATE 36
5	INSTALL FIRE HYDRANT PER UDACS PLATE 40
6	INSTALL 10" x 6" TEE W/ 6" GATE VALVE, 10" GATE VALVE, AND 10" x 8" TEE W/ 8" GATE VALVE PER UDACS PLATE 30, 31 & 39
7	INSTALL 6" PVC WL - C900, CLASS 150
8	RELOCATE FIRE HYDRANT PER NOTE ON SHEET P1
9	ADJUST EX GATE VALVE TO GRADE PER UDACS PLATE 39
10	INSTALL 6" RESTRAINED JOINT (RJ) DIP WL - CLASS 350
11	ADJUST TO FINAL GRADE, 2" BLOW OFF PER UDACS PLATE 36

NOTES
ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBLITERATED DURING CONSTRUCTION.

ENGINEER'S NOTES:

1. ALL WORK SHALL CONFORM TO THE SOILS REPORT PREPARED BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PROJECT NO. 4126.D030.
2. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST EDITION.
3. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE THE TOP OF THE GUTTER (INCLUDING OPEN GRADE).
4. CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION
5. THIS PLAN SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY ALL APPLICABLE GOVERNMENT AGENCIES.
6. ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.
7. MAINT ELEVATIONS SHOWN TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
8. THIS PROJECT IS NOT PART OF AN EXISTING COMMERCIAL SUBDIVISION.
9. PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES SUCH AS BUT NOT LIMITED TO THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF THE VEGETATION.

CLV#: 1077706 CC#: HTE: 17-41363
CLV#: 67712

Kimley»Horn

6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

STATE OF NEVADA
Professional Engineer
No. 17819
Exp. 8/18

KHA PROJECT
61153.52
DATE
10/6/17
SCALE
AS SHOWN
DESIGNED BY
JZ
DRAWN BY
JZ
CHECKED BY
TW

PLAN & PROFILE
HUALAPAI WAY
STA: 16+00 TO STA: 21+00

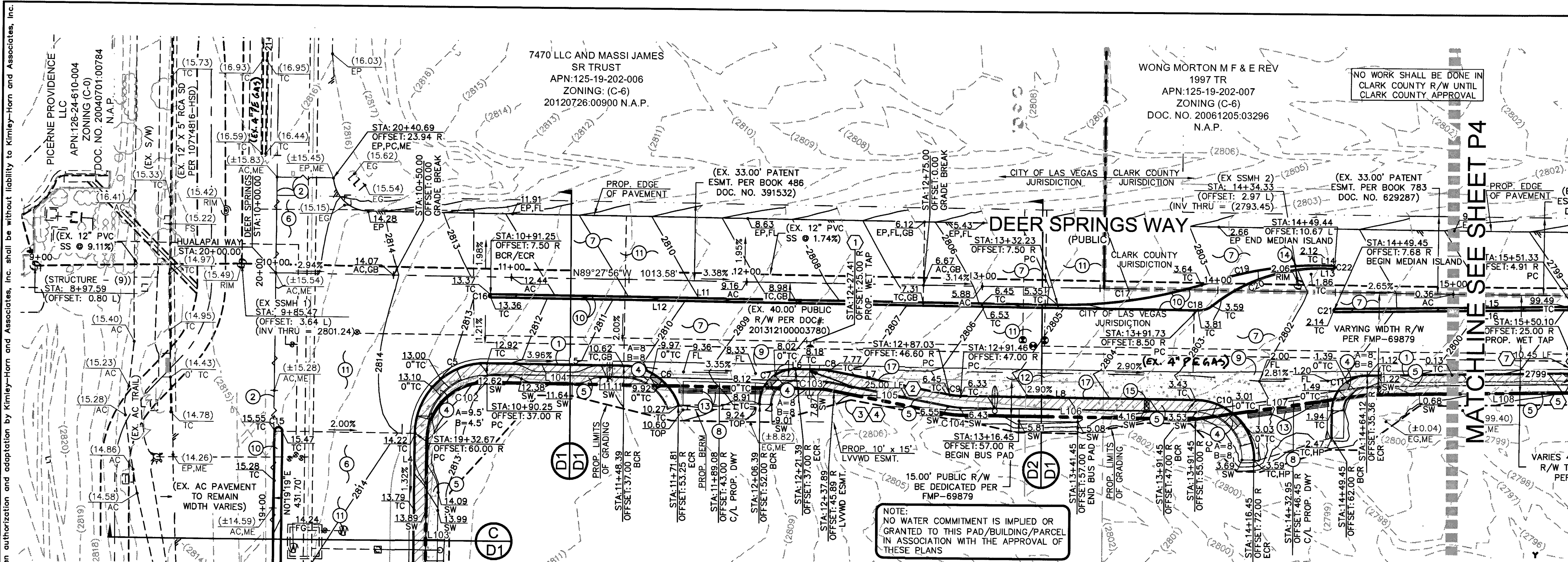
COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI

11 OF 17 SHEETS
P2

REVISIONS
No. DATE BY

PROJ.#: 125105 AGREE: 116197 QS: 125-19-SW

Plotted By: Zito, Jolynn, Sheet Set: KHA, Layout: P3, October 06, 2017, 09:51:25am, W: 61153_LAURICH.DWG\MPRODWS\OFFSITE\06-61153-P3.dwg
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



FOR REFERENCE - SEE SHEET P2

LEGEND & ABBREVIATIONS
SEE COVER SHEET FOR MASTER LEGEND AND ABBREVIATIONS.

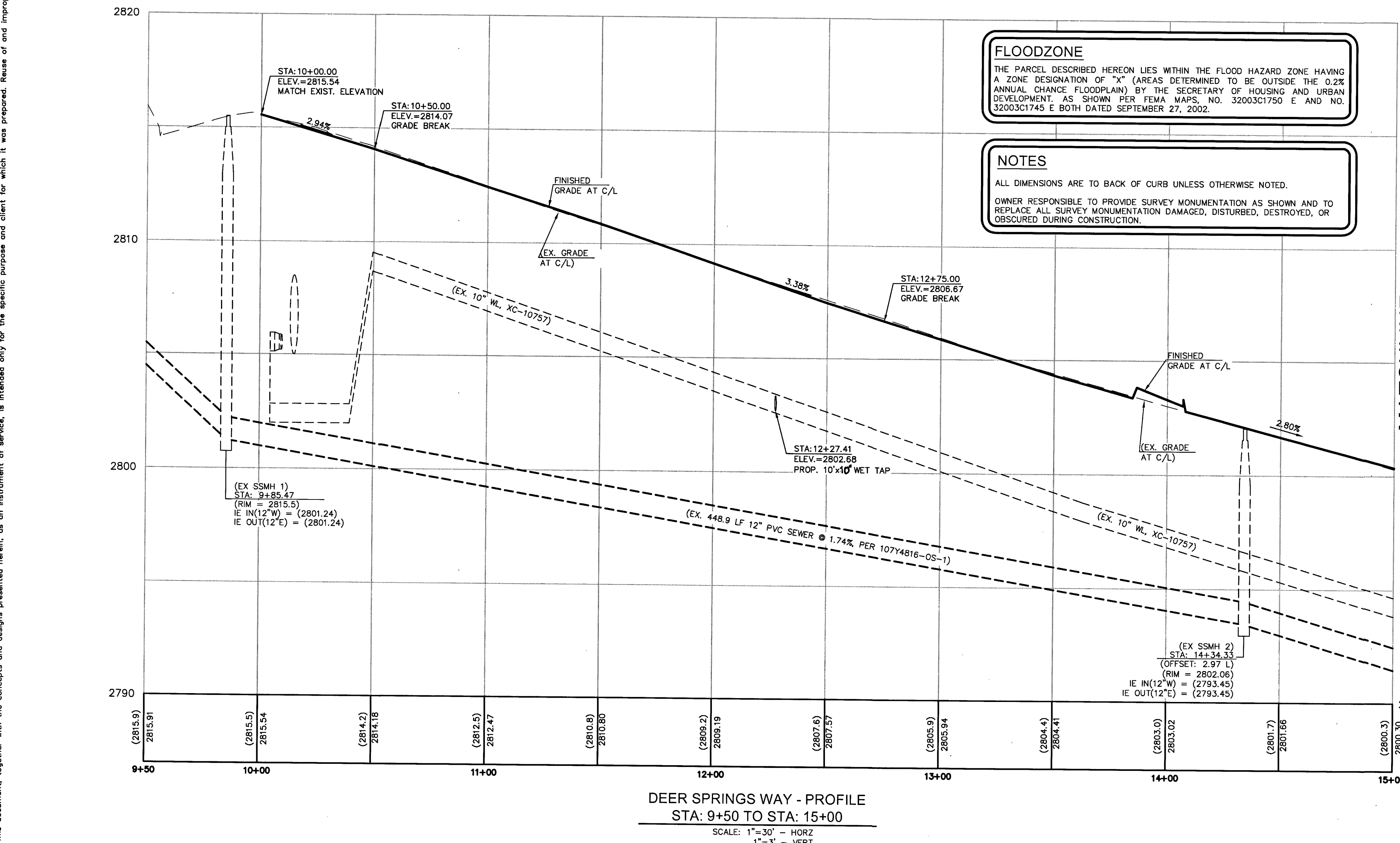
LEGAL DESCRIPTION
SEE COVER SHEET FOR FULL LEGAL DESCRIPTION.

SIGHT VISIBILITY ZONES NOTE
NO WALLS, FENCES, TREES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM THE TOP OF CURB.

BASIS OF BEARINGS
NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

BENCHMARK
BENCHMARK: 12LV89 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.066m = 2815.17ft. (NAVD 88)

CONDITIONAL APPROVAL OF VALVED OUTLET (6" AND LARGER)
THE WATER PLANS SHOW ONE OR MORE VALVED OUTLETS EXTENDING OUT OF PAVED AREAS. INSTALLATION OF THESE OUTLETS IS ACCEPTABLE, HOWEVER, IF THE OUTLETS ARE INCORRECTLY LOCATED OR NOT USED FOR ANY REASON WHEN THE PROPERTY IS ACTUALLY DEVELOPED, THE DEVELOPER SHALL ABANDON THE OUTLETS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH THE DISTRICT'S STANDARDS AND AT THE DEVELOPER'S EXPENSE. APPROVAL OF THE VALVED OUTLET DOES NOT PROVIDE OR IMPLY A WATER COMMITMENT.



MATCHLINE SEE SHEET P4

FLOODZONE
THE PARCEL DESCRIBED HEREON LIES WITHIN THE FLOOD HAZARD ZONE HAVING A ZONE DESIGNATION OF "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) BY THE SECRETARY OF HOUSING AND URBAN DEVELOPMENT, AS SHOWN PER FEMA MAPS, NO. 32003C1750 E AND NO. 32003C1745 E BOTH DATED SEPTEMBER 27, 2002.

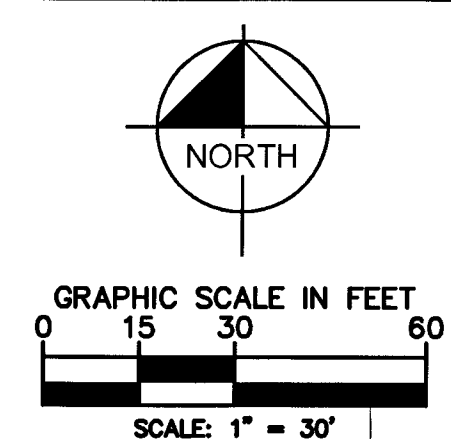
NOTES
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BOUNDARY CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C100	95.00'	30.17'	18°11'42"	15.21'
C101	105.00'	33.34'	18°11'42"	16.81'
C102	25.00'	39.36'	90°12'45"	25.09'
C103	17.00'	3.03'	10°12'18"	1.52'
C104	33.00'	5.88'	10°12'18"	2.95'

OFF-SITE CURB CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	25.00'	38.71'	88°43'37"	24.45'
C2	15.00'	23.56'	90°00'00"	15.00'
C3	100.00'	31.76'	18°11'42"	16.01'
C4	100.00'	31.76'	18°11'42"	16.01'
C5	30.00'	47.24'	90°12'45"	30.11'
C6	25.00'	30.33'	89°30'46"	17.35'
C7	15.00'	23.56'	90°00'00"	15.00'
C8	25.00'	4.13'	92°7'44"	2.07'
C9	25.00'	4.45'	10°12'18"	2.23'
C10	25.00'	39.27'	90°00'00"	25.00'
C11	15.00'	23.23'	88°43'37"	14.67'
C12	25.00'	39.83'	91°16'23"	25.56'
C13	15.00'	23.56'	90°00'00"	15.00'
C14	1.50'	4.71'	180°00'00"	INFINITY
C15	1.50'	4.71'	180°00'00"	INFINITY
C16	0.50'	1.57'	180°00'00"	INFINITY
C17	200.00'	65.72'	18°49'35"	33.16'
C18	10.00'	6.88'	39°17'28"	3.57'
C19	150.00'	52.62'	20°05'56"	26.58'
C20	73.00'	51.68'	40°33'50"	26.98'
C21	0.50'	1.57'	180°00'00"	INFINITY
C22	0.50'	1.57'	180°00'00"	INFINITY
C23	10.00'	5.30'	30°20'37"	2.71'
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C29	15.50'	18.16'	67°07'16"	10.28'
C30	2.50'	2.93'	67°07'00"	1.66'
C31	6.00'	9.43'	90°00'16"	6.00'
C32	6.00'	9.42'	90°00'00"	6.00'

OFF-SITE CURB LINE TABLE		
LINE	LENGTH	BEARING
L1	88.23'	N0°19'19"E
L2	181.28'	N1°35'17"E
L3	50.88'	N0°19'19"E
L4	139.93'	N0°19'19"E
L5	58.14'	N89°27'56"W
L6	10.06'	N89°27'56"W
L7	52.29'	N79°15'39"W
L8	100.00'	N89°27'56"W
L9	125.84'	N89°15'41"E
L10	15.45'	N89°15'41"E
L11	240.98'	N89°27'56"W
L12	300.81'	N89°27'56"W
L13	3.02'	N88°11'35"W
L14	0.45'	N88°11'35"W
L15	98.99'	N89°15'41"E
L16	98.99'	N89°15'41"E
L17	73.71'	N89°27'56"W

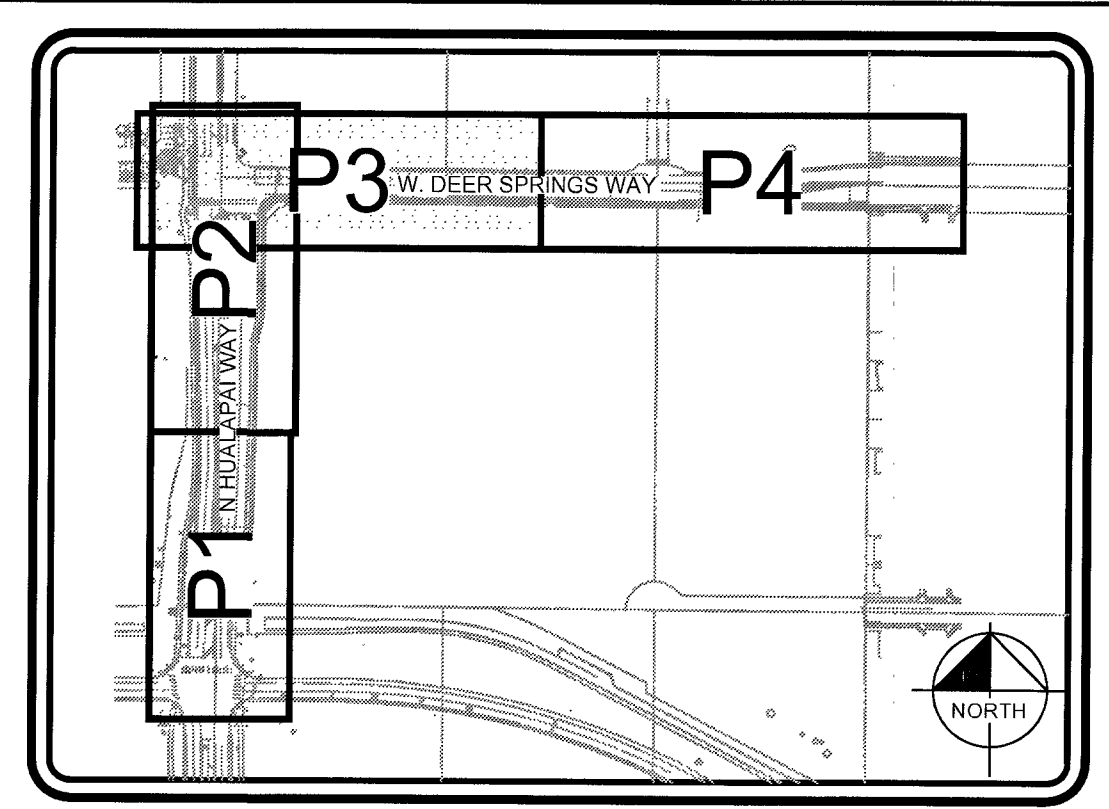
APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NUMBER: 129105 DATE: 10/19/17
APPROVED FIRE FLOW: 1,500 GPM AT 20 PSI RESIDUAL



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

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

CALL BEFORE YOU OVERHEAD
1-702-227-2929



KEY MAP
N.T.S.

CONSTRUCTION NOTES	
NO	ITEM
1	CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216
2	SAWCUT NEAT & MATCH EXISTING
3	ASPHALT S/W 2" AC OVER 6" TYPE II
4	CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I
5	CONSTRUCT SIDEWALK PER CCAUSD NO. 234
6	CONSTRUCT 4.5" AC OVER 5" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016
7	CONSTRUCT 4" AC OVER 4" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PER COPW H17-415493
8	CONSTRUCT COMMERCIAL CURB RETURN DRIVEWAY PER CCAUSD NO. 222.1 & 225
9	CONSTRUCT 8" CONCRETE VALLEY GUTTER PER CCAUSD NO. 228
10	CONSTRUCT MEDIAN ISLAND PER CCAUSD DWG NO. 218 AND WITH "A" TYPE ISLAND CURB PER CCAUSD NO. 219
11	DEMOLISH AND REMOVE EXISTING ASPHALT
12	CONSTRUCT BUS STOP & PAD PER CCAUSD NO. 234.1, 234.2 & 234.4
13	CONCRETE BARRIER PER CCAUSD NO. 237
14	ADJUST EX. MANHOLE & COLLAR, VAULT, PULLBOX, VALVE OR BOX TO FINISHED GRADE (TYPICAL). CONTRACTOR TO VERIFY EX. LID IS TRAFFIC RATED IF APPLICABLE & PROVIDE TRAFFIC RATED LID WHERE REQUIRED
15	CONSTRUCT 5" W/ DRAIN PER CCAUSD NO. 236
16	CONSTRUCT 2" CONCRETE FLUME PER DETAIL 3 ON SHEET D2
17	CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219

WATER CONSTRUCTION NOTES	
NO	ITEM
1	WET TAP EX. 10" PVC WATER WITH 10" x 10" TAPPING SLEEVE W/ 10" TAPPING VALVE PER UDACS SECTION 2.24.01, EXCAVATE PER UDACS PLATE 17, 19 & 34.
2	INSTALL 10" PVC WL - C900, CLASS 150
3	STUB & CAP - FOR FUTURE CONTINUATION
4	INSTALL CAP & 2" MANUAL BLOW OFF ASSEMBLY PER UDACS PLATE 36
5	INSTALL FIRE HYDRANT PER UDACS PLATE 40
6	INSTALL 10" x 6" TEE W/ 6" GATE VALVE, 10" GATE VALVE, AND 10" x 8" TEE W/ 8" GATE VALVE PER UDACS PLATE 30, 31 & 39
7	INSTALL 6" PVC WL - C900, CLASS 150
8	RELOCATE FIRE HYDRANT PER NOTE ON SHEET P1
9	ADJUST EX GATE VALVE TO GRADE PER UDACS PLATE 39
10	INSTALL 6" RESTRAINED JOINT (RJ) DIP WL - CLASS 350
11	ADJUST TO FINAL GRADE, 2" BLOW OFF PER UDACS PLATE 36

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING BY
ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM DAMAGES WHICH MAY RESULT FROM CONSTRUCTION OF THE IMPROVEMENTS FROM THE ENGINEERING DESIGN DEPICTED HEREIN.
NOTE: POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO THE CLARK COUNTY.

ENGINEER'S NOTES:
1. ALL WORK SHALL CONFORM TO THE SOILS REPORT PREPARED BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PROJECT NO. 4126.0030.
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3. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE THE TOP OF THE GUTTER (INCLUDING OPEN GRADE).
4. CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION.
5. THIS PLAN SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNLESS IT IS APPROVED AND SIGNED BY ALL APPLICABLE GOVERNMENT AGENCIES.
6. ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.
7. MATCH ELEVATIONS SHOWN TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
8. THIS PROJECT IS NOT PART OF AN EXISTING COMMERCIAL SUBDIVISION.
9. PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES SUCH AS BUT NOT LIMITED TO THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF THE VEGETATION.

Kimley»Horn
6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-686-3600
WWW.KIMLEY-HORN.COM

COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI

PLAN & PROFILE
DEER SPRINGS WAY
STA: 9+50 TO STA: 15+00

CONSTRUCTION NOTES
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APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NUMBER: 129105 DATE: 10/19/17
APPROVED FIRE FLOW: 1,500 GPM AT 20 PSI RESIDUAL

KEY MAP
N.T.S.

CONSTRUCTION NOTES
1. CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216
2. SAWCUT NEAT & MATCH EXISTING
3. ASPHALT S/W 2" AC OVER 6" TYPE II
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5. INSTALL FIRE HYDRANT PER UDACS PLATE 40
6. INSTALL 10" x 6" TEE W/ 6" GATE VALVE, 10" GATE VALVE, AND 10" x 8" TEE W/ 8" GATE VALVE PER UDACS PLATE 30, 31 & 39
7. INSTALL 6" PVC WL - C900, CLASS 150
8. RELOCATE FIRE HYDRANT PER NOTE ON SHEET P1
9. ADJUST EX GATE VALVE TO GRADE PER UDACS PLATE 39
10. INSTALL 6" RESTRAINED JOINT (RJ) DIP WL - CLASS 350
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CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW
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APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NUMBER: 129105 DATE: 10/19/17
APPROVED FIRE FLOW: 1,500 GPM AT 20 PSI RESIDUAL

KEY MAP
N.T.S.

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4. CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I
5. CONSTRUCT SIDEWALK PER CCAUSD NO. 234
6. CONSTRUCT 4.5" AC OVER 5" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016
7. CONSTRUCT 4" AC OVER 4" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PER COPW H17-415493
8. CONSTRUCT COMMERCIAL CURB RETURN DRIVEWAY PER CCAUSD NO. 222.1 & 225
9. CONSTRUCT 8" CONCRETE VALLEY GUTTER PER CCAUSD NO. 228
10. CONSTRUCT MEDIAN ISLAND PER CCAUSD DWG NO. 218 AND WITH "A" TYPE ISLAND CURB PER CCAUSD NO. 219
11. DEMOLISH AND REMOVE EXISTING ASPHALT
12. CONSTRUCT BUS STOP & PAD PER CCAUSD NO. 234.1, 234.2 & 234.4
13. CONCRETE BARRIER PER CCAUSD NO. 237
14. ADJUST EX. MANHOLE & COLLAR, VAULT, PULLBOX, VALVE OR BOX TO FINISHED GRADE (TYPICAL). CONTRACTOR TO VERIFY EX. LID IS TRAFFIC RATED IF APPLICABLE & PROVIDE TRAFFIC RATED LID WHERE REQUIRED
15. CONSTRUCT 5" W/ DRAIN PER CCAUSD NO. 236
16. CONSTRUCT 2" CONCRETE FLUME PER DETAIL 3 ON SHEET D2
17. CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219

WATER CONSTRUCTION NOTES
1. WET TAP EX. 10" PVC WATER WITH 10" x 10" TAPPING SLEEVE W/ 10" TAPPING VALVE PER UDACS SECTION 2.24.01, EXCAVATE PER UDACS PLATE 17, 19 & 34.
2. INSTALL 10" PVC WL - C900, CLASS 150
3. STUB & CAP - FOR FUTURE CONTINUATION
4. INSTALL CAP & 2" MANUAL BLOW OFF ASSEMBLY PER UDACS PLATE 36
5. INSTALL FIRE HYDRANT PER UDACS PLATE 40
6. INSTALL 10" x 6" TEE W/ 6" GATE VALVE, 10" GATE VALVE, AND 10" x 8" TEE W/ 8" GATE VALVE PER UDACS PLATE 30, 31 & 39
7. INSTALL 6" PVC WL - C900, CLASS 150
8. RELOCATE FIRE HYDRANT PER NOTE ON SHEET P1
9. ADJUST EX GATE VALVE TO GRADE PER UDACS PLATE 39
10. INSTALL 6" RESTRAINED JOINT (RJ) DIP WL - CLASS 350
11. ADJUST TO FINAL GRADE, 2" BLOW OFF PER UDACS PLATE 36

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING BY
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NOTE: POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO THE CLARK COUNTY.

ENGINEER'S NOTES:
1. ALL WORK SHALL CONFORM TO THE SOILS REPORT PREPARED BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PROJECT NO. 4126.0030.
2. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST EDITION.
3. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE THE TOP OF THE GUTTER (INCLUDING OPEN GRADE).
4. CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION.
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7. MATCH ELEVATIONS SHOWN TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
8. THIS PROJECT IS NOT PART OF AN EXISTING COMMERCIAL SUBDIVISION.
9. PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES SUCH AS BUT NOT LIMITED TO THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF THE VEGETATION.

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NUMBER: 129105 DATE: 10/19/17
APPROVED FIRE FLOW: 1,500 GPM AT 20 PSI RESIDUAL

KEY MAP
N.T.S.

CONSTRUCTION NOTES
1. CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216
2. SAWCUT NEAT & MATCH EXISTING
3. ASPHALT S/W 2" AC OVER 6" TYPE II
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CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW
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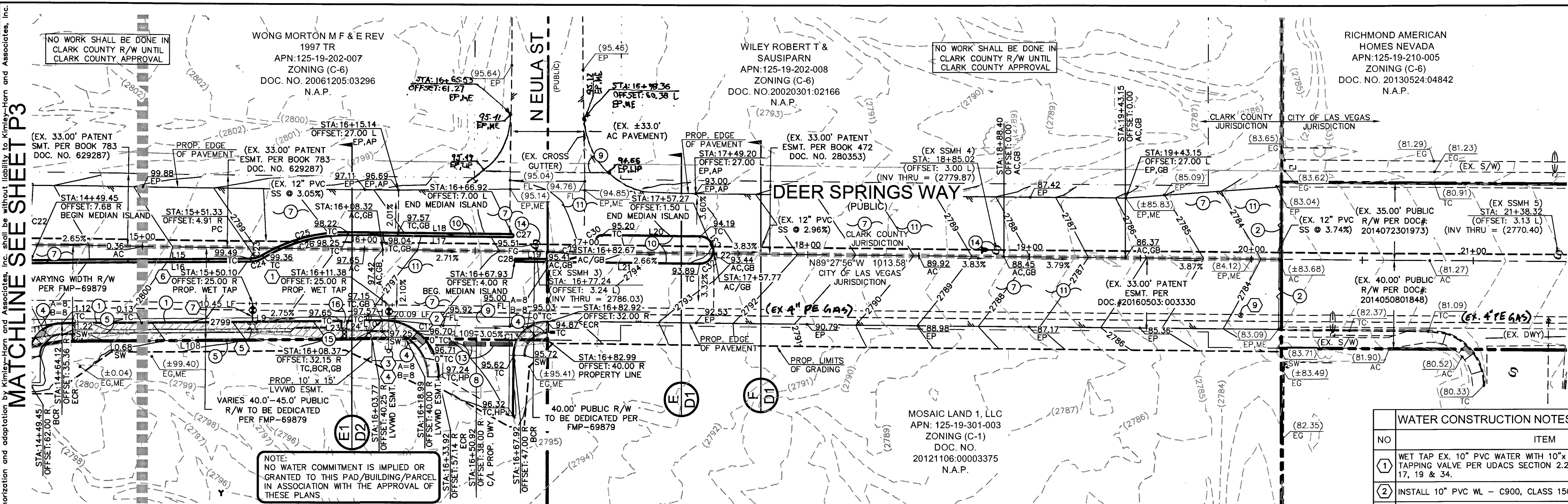
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APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NUMBER: 129105 DATE: 10/19/17
APPROVED FIRE FLOW: 1,500 GPM AT 20 PSI RESIDUAL

KEY MAP
N.T.S.

CONSTRUCTION NOTES
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6. CONSTRUCT 4.5" AC OVER 5" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12

Plotted By: Zita, Jolynn, Sheet Sht-Kbo, Layout: P4, October 06, 2017 09:51:42am, W:\61153_LAURICH\DWG\IMPROV\DWG\OFFSITE\06-61153-P3.dwg
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



SIGHT VISIBILITY ZONES NOTE

NO WALLS, FENCES, TREES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM THE TOP OF CURB.

DEER SPRINGS WAY - PLAN VIEW

STA: 9+50 TO STA: 15+00

SCALE: 1"=30'

BASIS OF BEARINGS

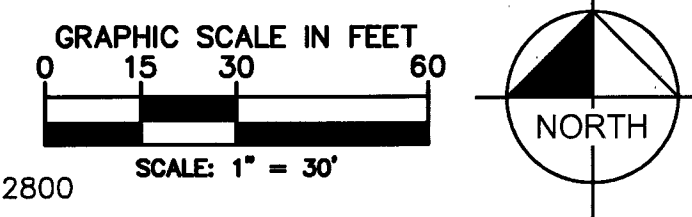
NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

LVVWD NOTE:

THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRAIL SHUTDOWN.
CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

CONDITIONAL APPROVAL OF VALVED OUTLET (6" AND LARGER)

THE WATER PLANS SHOW ONE OR MORE VALVED OUTLETS EXTENDING OUT OF PAVED AREAS. INSTALLATION OF THESE OUTLETS IS ACCEPTABLE, HOWEVER, IF THE OUTLETS ARE INCORRECTLY LOCATED OR NOT USED FOR ANY REASON WHEN THE PROPERTY IS ACTUALLY DEVELOPED, THE DEVELOPER SHALL ABANDON THE OUTLETS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH THE DISTRICT'S STANDARDS AND AT THE DEVELOPER'S EXPENSE. APPROVAL OF THE VALVED OUTLET DOES NOT PROVIDE OR IMPLY A WATER COMMITMENT.



CURVE	RADIUS	LENGTH	DELTA	TANGENT
C100	95.00'	30.17'	18°11'42"	15.21'
C101	105.00'	33.34'	18°11'42"	16.81'
C102	25.00'	39.36'	90°12'45"	25.09'
C103	17.00'	3.03'	101°12'18"	1.52'
C104	33.00'	5.88'	101°12'18"	2.95'

CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	25.00'	38.71'	88°43'37"	24.45'
C2	15.00'	23.56'	90°00'00"	15.00'
C3	100.00'	31.76'	18°11'42"	16.01'
C4	100.00'	31.76'	18°11'42"	16.01'
C5	30.00'	47.24'	90°12'45"	30.11'
C6	25.00'	30.33'	69°00'46"	17.35'
C7	15.00'	23.56'	90°00'00"	15.00'
C8	25.00'	4.13'	9°27'44"	2.07'
C9	25.00'	4.45'	101°12'18"	2.23'
C10	25.00'	39.27'	90°00'00"	25.00'
C11	15.00'	23.23'	88°43'37"	14.67'
C12	25.00'	39.83'	91°16'23"	25.56'
C13	15.00'	23.56'	90°00'00"	15.00'
C14	1.50'	4.71'	180°00'00"	INFINITY
C15	1.50'	4.71'	180°00'00"	INFINITY
C16	0.50'	1.57'	180°00'00"	INFINITY
C17	200.00'	65.72'	18°49'35"	33.16'
C18	10.00'	6.86'	39°17'28"	3.57'
C19	150.00'	52.62'	20°05'56"	26.58'
C20	73.00'	51.68'	40°33'50"	26.98'
C21	0.50'	1.57'	180°00'00"	INFINITY
C22	0.50'	1.57'	180°00'00"	INFINITY
C23	10.00'	5.30'	30°20'37"	2.71'
C24	11.00'	5.83'	30°20'37"	2.98'
C25	74.00'	40.83'	31°37'00"	20.95'
C26	73.00'	40.28'	31°37'00"	20.67'
C27	0.50'	1.57'	180°00'00"	INFINITY
C28	0.50'	1.57'	180°00'00"	INFINITY
C29	15.50'	18.16'	67°07'16"	10.28'
C30	2.50'	2.93'	67°07'00"	1.66'
C31	6.00'	9.43'	90°00'16"	6.00'
C32	6.00'	9.42'	90°00'00"	6.00'

LINE	LENGTH	BEARING
L1	88.23'	N01°19'19"E
L2	181.28'	N1°35'17"E
L3	50.88'	N01°19'19"E
L4	139.93'	N01°19'19"E
L5	58.14'	N89°27'56"W
L6	10.06'	N89°27'56"W
L7	52.29'	N79°15'39"W
L8	100.00'	N89°27'56"W
L9	125.84'	N89°15'41"E
L10	15.45'	N89°15'41"E
L11	240.96'	N89°27'56"W
L12	300.81'	N89°27'56"W
L13	3.02'	N88°11'35"W
L14	0.45'	N88°11'35"W
L15	98.99'	N89°15'41"E
L16	98.99'	N89°15'41"E
L17	73.71'	N89°27'56"W
L18	73.71'	N89°27'56"W
L19	22.00'	N89°27'40"E
L20	44.26'	N89°27'56"W
L21	82.85'	S89°27'40"E
L22	0.01'	N00°32'20"E

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW

ACCEPTANCE OF PLANS FOR FILING BY

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LEGEND & ABBREVIATIONS

SEE COVER SHEET FOR MASTER LEGEND AND ABBREVIATIONS.

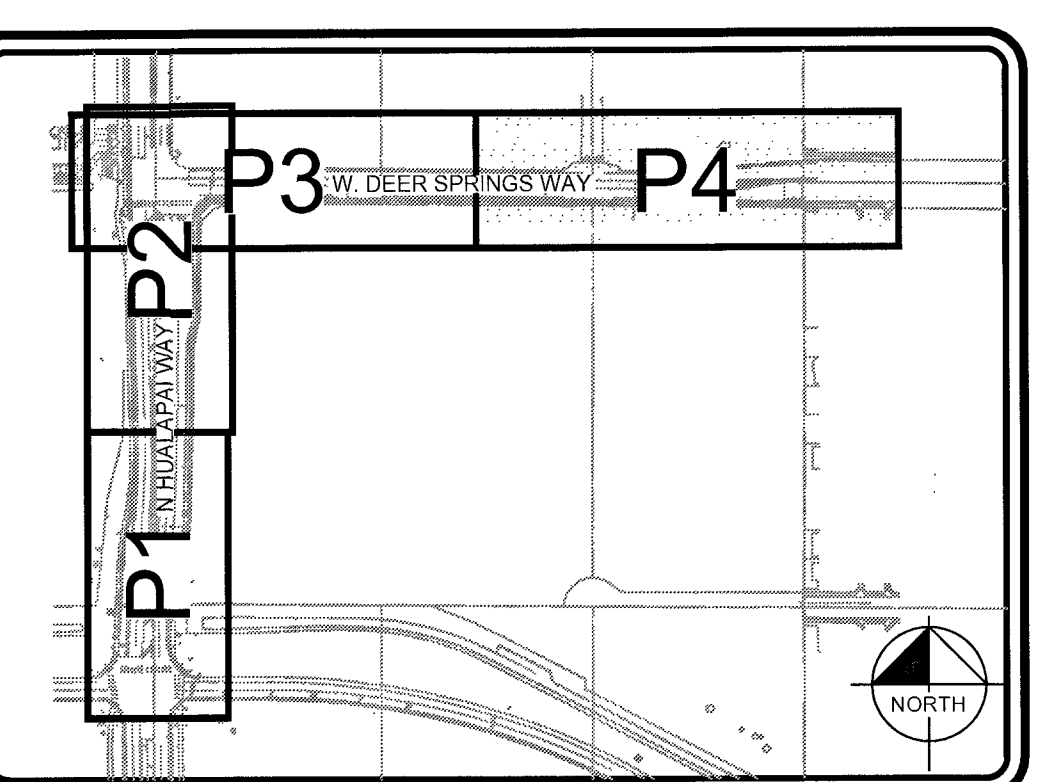
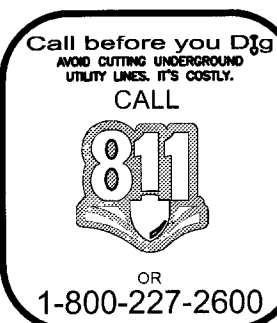
DEER SPRINGS WAY - PROFILE

STA: 15+00 TO STA: 21+00

SCALE: 1"=30' - HORIZ
1"=3' - VERT

LEGAL DESCRIPTION

SEE COVER SHEET FOR FULL LEGAL DESCRIPTION.



KEY MAP

N.T.S.

NO	ITEM
1	CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216
2	SAWCUT NEAT & MATCH EXISTING
3	ASPHALT S/W 2" AC OVER 6" TYPE II
4	CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I
5	CONSTRUCT SIDEWALK PER CCAUSD NO. 234
6	CONSTRUCT 4.5" AC OVER 5" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016
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BENCHMARK

BENCHMARK: 12LV99 244: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.066m = 2815.17ft. (NAVD 88)

FLOODZONE

THE PARCEL DESCRIBED HEREON LIES WITHIN THE FLOOD HAZARD ZONE HAVING A ZONE DESIGNATION OF "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) BY THE SECRETARY OF HOUSING AND URBAN DEVELOPMENT, AS SHOWN PER FEMA MAPS, NO. 32003C1750 E AND NO. 32003C1745 E BOTH DATED SEPTEMBER 27, 2002.

NOTES

ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSOURED DURING CONSTRUCTION.

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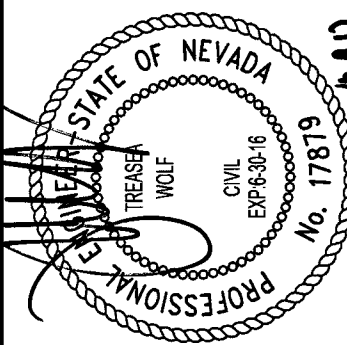
APPROVED FOR CONSTRUCTION

DISHARI KPR
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NUMBER 126105
APPROVED FIRE FLOW 1.500 GPM AT 20 PSI RESIDUAL
DATE: 10/19/17

CC#: HTE: 17-41363

CLV#: 67712

Kimley»Horn
6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

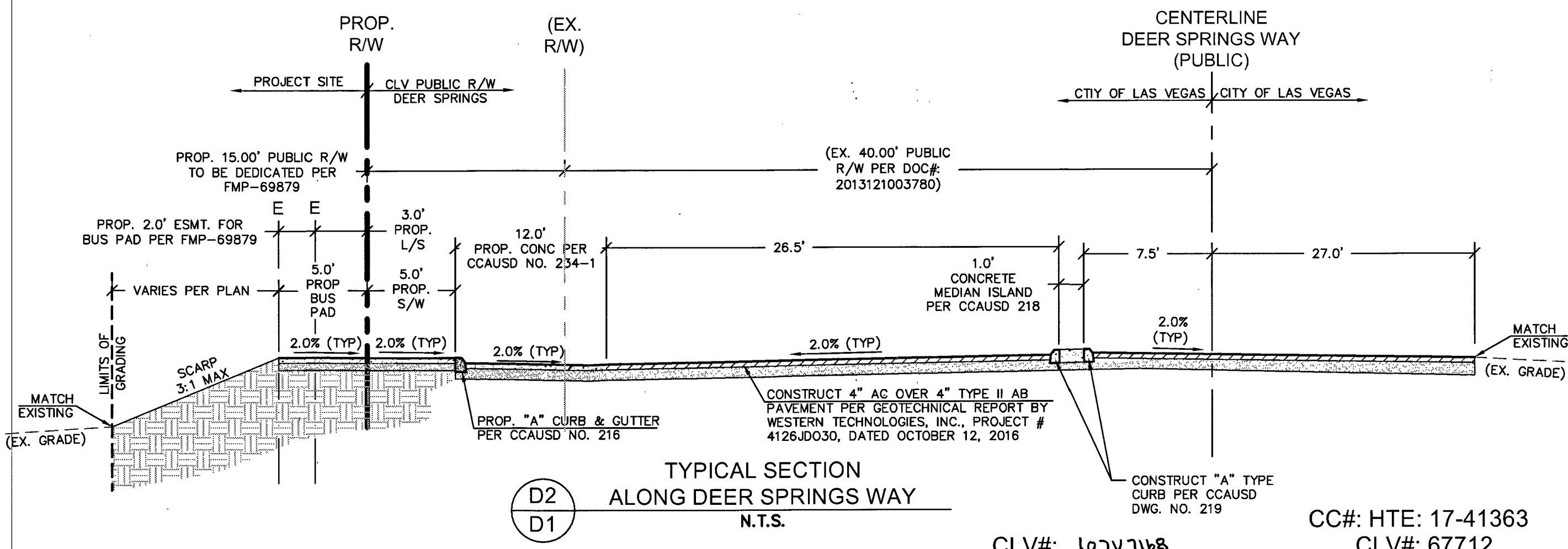


KHA PROJECT 61153.52
DATE 10/6/17
SCALE AS SHOWN
DESIGNED BY JZ
DRAWN BY JZ
CHECKED BY TW

PLAN & PROFILE
DEER SPRINGS WAY
STA: 15+00 TO STA: 21+00

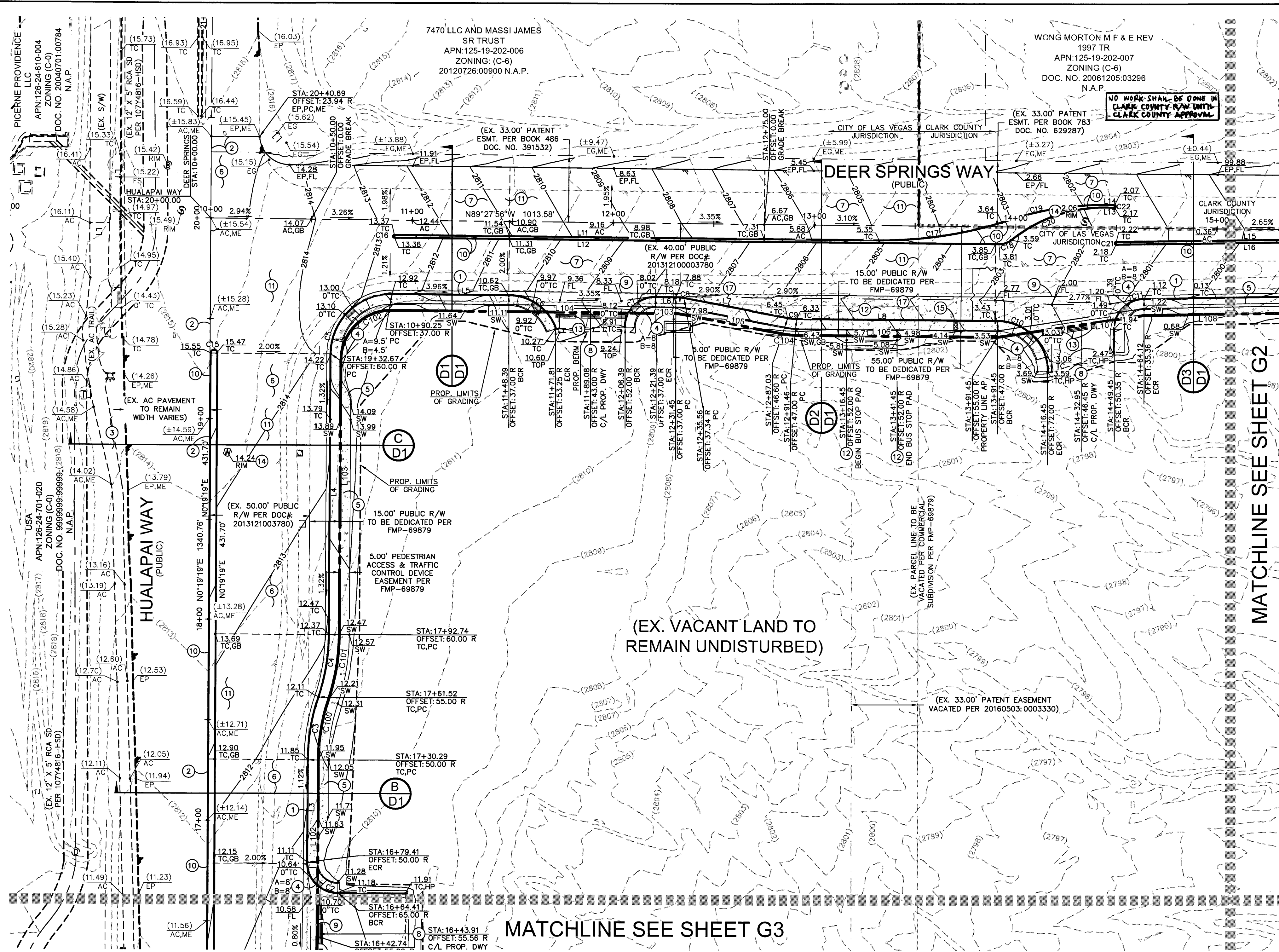
COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI
13 OF 17 SHEETS
P4

PROJ#125105 AGREE: 116197 QS:125-19-SW



4 OF 17 SHEETS	COMMERCIAL SUBDIVISION @ SEC DEER SPRINGS & HUALAPAI	TYPICAL SECTIONS	KHA PROJECT 6115.3.52 DATE 10/6/17 SCALE AS SHOWN DESIGNED BY JZ DRAWN BY JZ CHECKED BY TW		Kimley»»Horn 6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119 PHONE: 702-862-3600 WWW.KIMLEY-HORN.COM	No. _____ REVISIONS _____ DATE _____ BY _____

Plotted By: Zito, JaLynn Sheet Set: Kha Layout: D2 October 06, 2017 09:49:03am W:\61153_LAURICH\DWG\IMPRDWGS\OFFSITE\02-61153-D1.dwg

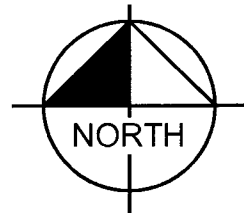


BOUNDARY CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C100	95.00'	30.17'	181°14'2"	15.21'
C101	105.00'	33.34'	181°14'2"	16.81'
C102	25.00'	39.36'	90°12'45"	25.09'
C103	17.00'	3.03'	101°21'8"	1.52'
C104	33.00'	5.88'	101°21'8"	2.95'

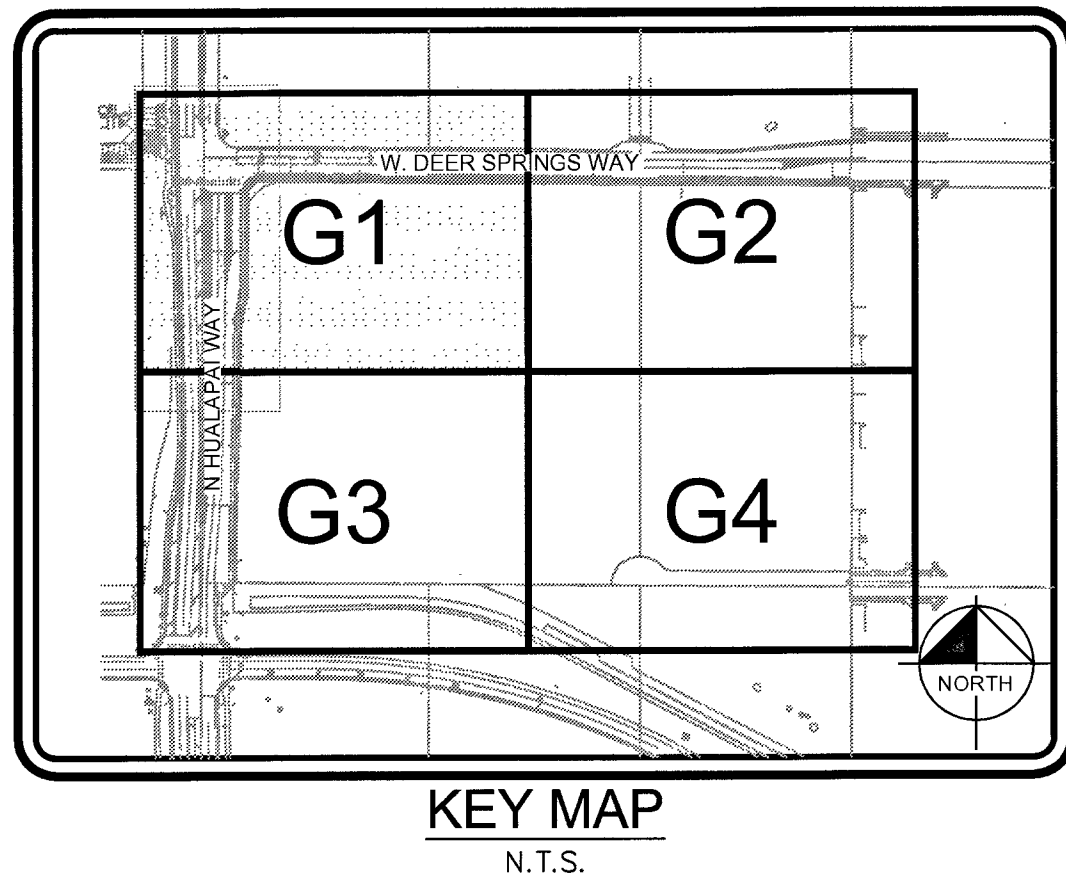
BOUNDARY LINE TABLE		
LINE	LENGTH	BEARING
L100	88.23'	N00°19'19"E
L101	225.00'	S01°35'42"W
L102	87.55'	N81°27'05"E
L103	136.83'	N00°19'19"E
L104	141.18'	N89°27'56"W
L105	51.98'	N79°15'39"W
L106	100.00'	N89°27'56"W
L107	73.77'	N81°27'05"E
L108	150.99'	N89°15'41"E
L109	67.74'	N89°27'56"W

OFF-SITE CURB LINE TABLE		
LINE	LENGTH	BEARING
L1	88.23'	N00°19'19"E
L2	181.28'	N1°35'17"E
L3	50.68'	N00°19'19"E
L4	139.93'	N01°19'19"E
L5	58.14'	N89°27'56"W
L6	10.06'	N89°27'56"W
L7	52.29'	N79°15'39"W
L8	100.00'	N89°27'56"W
L9	125.84'	N89°15'41"E
L10	15.45'	N89°15'41"E
L11	240.98'	N89°27'56"W
L12	300.81'	N89°27'56"W
L13	3.02'	N88°11'35"W
L14	0.45'	N88°11'35"W
L15	98.99'	N89°15'41"E
L16	98.99'	N89°15'41"E
L17	73.77'	N89°27'56"W
L18	73.77'	N89°27'56"W
L19	22.00'	N89°27'40"E
L20	44.26'	N89°27'56"W
L21	82.85'	S89°27'40"E
L22	0.01'	N00°32'20"E

OFF-SITE CURB CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	25.00'	38.71'	88°43'37"	24.45'
C2	15.00'	23.56'	90°00'00"	15.00'
C3	100.00'	31.76'	181°14'2"	16.01'
C4	100.00'	31.76'	181°14'2"	16.01'
C5	30.00'	47.24'	90°12'45"	30.11'
C6	25.00'	30.33'	69°30'46"	17.35'
C7	15.00'	23.56'	90°00'00"	15.00'
C8	25.00'	4.13'	9°27'44"	2.07'
C9	25.00'	4.45'	101°21'8"	2.23'
C10	25.00'	39.27'	90°00'00"	25.00'
C11	15.00'	23.23'	88°43'37"	14.67'
C12	25.00'	39.83'	91°16'23"	25.56'
C13	15.00'	23.56'	90°00'00"	15.00'
C14	1.50'	4.71'	180°00'00"	INFINITY
C15	1.50'	4.71'	180°00'00"	INFINITY
C16	1.50'	1.57'	180°00'00"	INFINITY
C17	200.00'	65.72'	184°35'35"	33.16'
C18	10.00'	6.86'	39°17'28"	3.57'
C19	150.00'	52.62'	20°05'56"	26.58'
C20	73.00'	51.68'	40°33'50"	26.98'
C21	0.50'	1.57'	180°00'00"	INFINITY
C22	0.50'	1.57'	180°00'00"	INFINITY
C23	10.00'	5.30'	30°20'37"	2.71'
C24	11.00'	5.83'	30°20'37"	2.98'
C25	74.00'	40.83'	31°37'00"	20.95'
C26	73.00'	40.28'	31°37'00"	20.67'
C27	0.50'	1.57'	180°00'00"	INFINITY
C28	0.50'	1.57'	180°00'00"	INFINITY
C29	15.50'	18.16'	67°07'16"	10.28'
C30	2.50'	2.93'	67°07'00"	1.66'
C31	6.00'	9.43'	90°00'18"	6.00'
C32	6.00'	9.42'	90°00'00"	6.00'



GRAPHIC SCALE IN FEET
0 15 30 60
SCALE: 1" = 30'



CONSTRUCTION NOTES	
NO	ITEM
1	CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216
2	SAWCUT NEAT & MATCH EXISTING
3	ASPHALT 5" S/W 2" AC OVER 6" TYPE II
4	CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I
5	CONSTRUCT SIDEWALK PER CCAUSD NO. 234
6	CONSTRUCT 4.5" AC OVER 5" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016
7	CONSTRUCT 4" AC OVER 4" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PER CCAUSD HTE# 17-48603
8	CONSTRUCT COMMERCIAL CURB RETURN DRIVEWAY PER CCAUSD NO. 222.1 & 225
9	CONSTRUCT 8" CONCRETE VALLEY GUTTER PER CCAUSD NO. 228
10	CONSTRUCT MEDIAN ISLAND PER CCAUSD DWG NO. 218 AND WITH "A" TYPE ISLAND CURB PER CCAUSD NO. 219
11	DEMOLISH AND REMOVE EXISTING ASPHALT
12	CONSTRUCT BUS STOP & PAD PER CCAUSD NO. 234.1, 234.2 & 234.4
13	CONCRETE BARRIER PER CCAUSD NO. 237
14	ADJUST EX. MANHOLE & COLLAR, VAULT, PULLBOX, VALVE OR BOX TO FINISHED GRADE (TYPICAL). CONTRACTOR TO VERIFY EX. LID IS TRAFFIC RATED IF APPLICABLE & PROVIDE TRAFFIC RATED LID WHERE REQUIRED
15	CONSTRUCT S/W DRAIN PER CCAUSD NO. 236
16	CONSTRUCT 2" CONCRETE FLUME PER DETAIL 3 ON SHEET D2
17	CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW

ACCEPTANCE OF PLANS FOR FILING BY

ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM DAMAGES WHICH MAY RESULT FROM CONSTRUCTION OF THE IMPROVEMENTS FROM THE ENGINEERING DESIGN DEPICTED HEREIN.

NOTE: POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO THE CLARK COUNTY.

STORMWATER MANAGEMENT NOTES:

- 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 THE CITY OF LAS VEGAS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
- ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CITY OF LAS VEGAS BUILDING, ADMINISTRATIVE CODE 24.40, AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
- TEMPORARY OR 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 NVR100000, SECTION III.A.5.
- AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS 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. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
- ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT, CLV DS4809 & CLARK COUNTY HTE#16-48274 & 17-28627.
TREASEA WOLF, P.E. No. 17879
DATE 11-9-17

CLV#: 10707068

CC#: HTE: 17-41363

CLV#: 67712

CLARK COUNTY CONCURRENCE

NO WORK TO BE PERFORMED IN CLARK COUNTY RIGHT-OF-WAY UNTIL CLARK COUNTY APPROVAL IS OBTAINED

LEGEND & ABBREVIATIONS

SEE COVER SHEET FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION

SEE COVER SHEET FOR FULL LEGAL DESCRIPTION.

BENCHMARK

BENCHMARK: 12LV99 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.066m = 2815.17ft. (NAVD 88)

BASIS OF BEARINGS

NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

NOTES

ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSOBELED DURING CONSTRUCTION.

SIGHT VISIBILITY ZONES NOTE

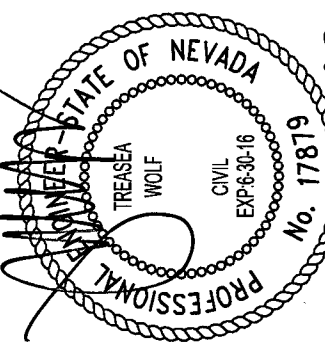
NO WALLS, FENCES, TREES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM THE TOP OF CURB.

FLOODZONE

THE PARCEL DESCRIBED HEREON LIES WITHIN THE FLOOD HAZARD ZONE HAVING A ZONE DESIGNATION OF "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) BY THE SECRETARY OF HOUSING AND URBAN DEVELOPMENT, AS SHOWN PER FEMA MAPS, NO. 32003C1750 E AND NO. 32003C1745 E BOTH DATED SEPTEMBER 27, 2002.



Kimley»Horn
6671 LAS VEGAS BLVD. S. SUITE 300, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM



KHA PROJECT 61153.52
DATE 10/6/17
SCALE AS SHOWN
DESIGNED BY JZ
DRAWN BY JZ
CHECKED BY TW

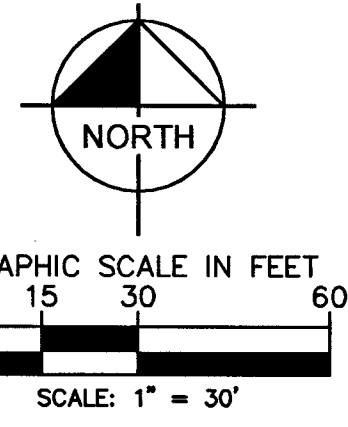
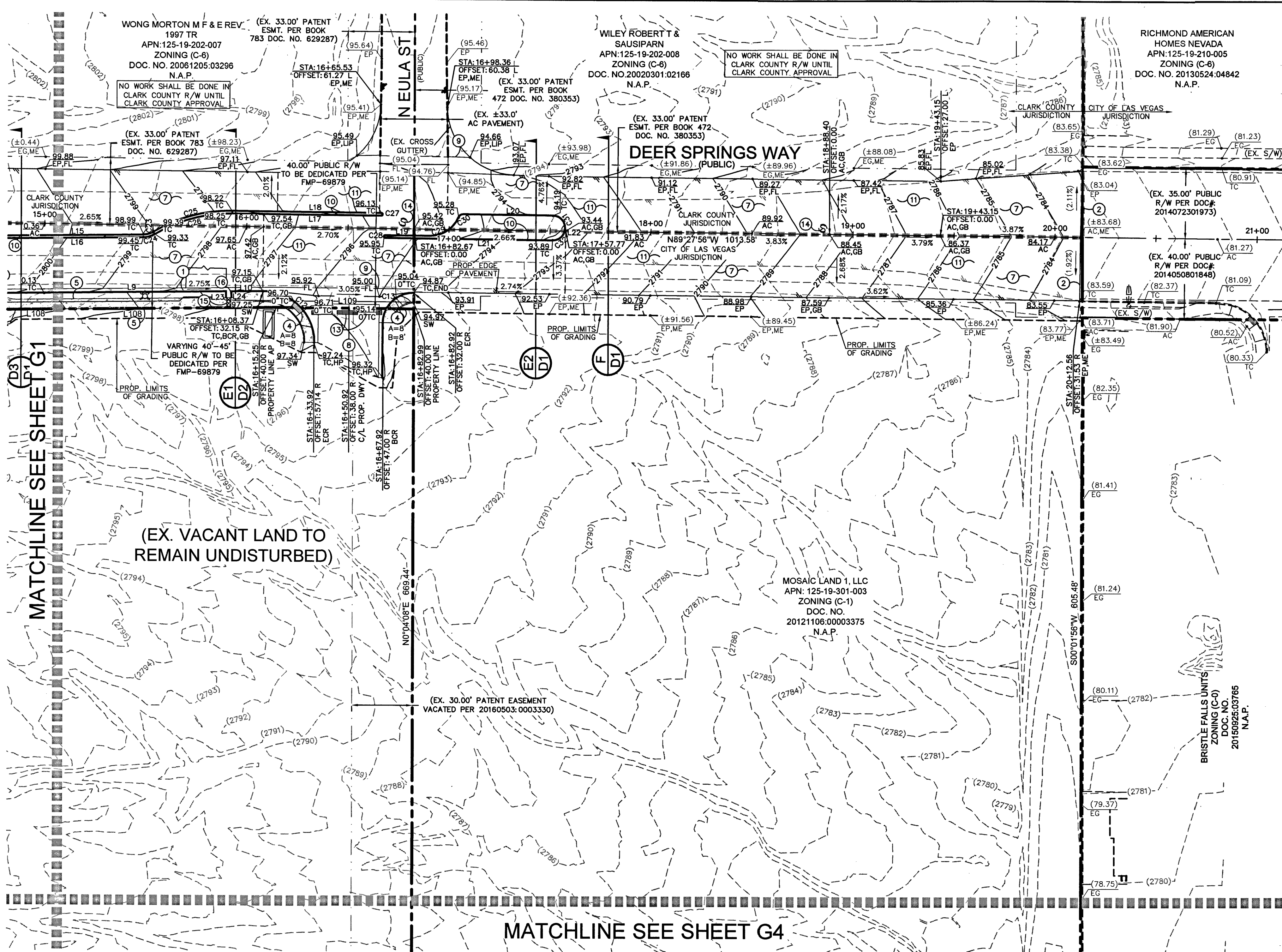
PRECISE GRADING PLAN
SHEET 1 OF 4

COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI

6 OF 17 SHEETS

G1

Plotted By: Zito, Julian M. Sheet Set: KHA-2017-03-08-50pm W: 61153 LAURICH.DWG IMPROVEMENTS OLD DAM SC 2017-31-20171108-OFFSITE MYLAR SHEETS 04-61153-GIX.dwg
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

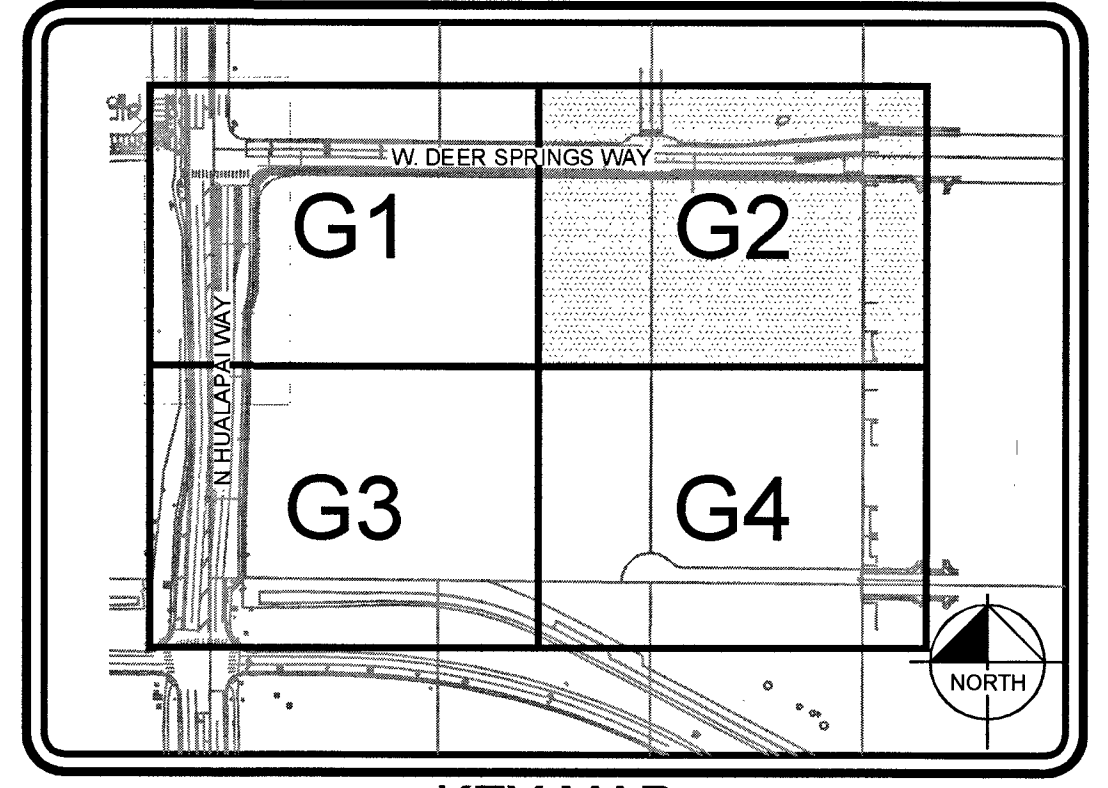


BOUNDARY CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C100	95.00'	30.17'	18°11'42"	15.21'
C101	105.00'	33.34'	18°11'42"	16.81'
C102	25.00'	39.35'	90°12'45"	25.09'
C103	17.00'	3.03'	10°12'18"	1.52'
C104	33.00'	5.88'	10°12'18"	2.95'

BOUNDARY LINE TABLE		
LINE	LENGTH	BEARING
L100	88.23'	N0019°19'E
L101	225.06'	S01°35'42"W
L102	87.55'	N81°27'05"E
L103	136.93'	N0019°19'E
L104	141.18'	N89°27'56"W
L105	51.98'	N79°15'39"W
L106	100.00'	N89°27'56"W
L107	73.77'	N89°27'05"E
L108	150.99'	N89°15'41"E
L109	67.74'	N89°27'56"W

OFF-SITE CURB LINE TABLE		
LINE	LENGTH	BEARING
L1	88.23'	N0019°19'E
L2	181.28'	N1°35'17"E
L3	50.88'	N019°19'E
L4	139.93'	N019°19'E
L5	58.14'	N89°27'56"W
L6	10.06'	N89°27'56"W
L7	52.29'	N79°15'39"W
L8	100.00'	N89°27'56"W
L9	125.84'	N89°15'41"E
L10	15.45'	N89°15'41"E
L11	240.98'	N89°27'56"W
L12	300.81'	N89°27'56"W
L13	3.02'	N88°11'35"W
L14	0.45'	N88°11'35"W
L15	98.99'	N89°15'41"E
L16	98.99'	N89°15'41"E
L17	73.71'	N89°27'56"W
L18	73.71'	N89°27'56"W
L19	22.00'	N89°27'40"E
L20	44.28'	N89°27'56"W
L21	82.85'	S88°27'40"E
L22	0.01'	N00°32'20"E

OFF-SITE CURB CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	25.00'	38.71'	88°43'37"	24.45'
C2	15.00'	23.56'	90°00'00"	15.00'
C3	100.00'	31.76'	18°11'42"	16.01'
C4	100.00'	31.76'	18°11'42"	16.01'
C5	30.00'	47.24'	90°12'45"	30.11'
C6	25.00'	30.33'	89°30'46"	17.35'
C7	15.00'	23.56'	90°00'00"	15.00'
C8	25.00'	4.13'	9°27'44"	2.07'
C9	25.00'	4.45'	10°12'18"	2.23'
C10	25.00'	39.27'	90°00'00"	25.00'
C11	15.00'	23.23'	88°43'37"	14.67'
C12	15.00'	39.83'	91°16'23"	25.58'
C13	15.00'	23.56'	90°00'00"	15.00'
C14	1.50'	4.71'	180°00'00"	INFINITY
C15	1.50'	4.71'	180°00'00"	INFINITY
C16	0.50'	1.57'	180°00'00"	INFINITY
C17	200.00'	65.72'	18°49'35"	33.16'
C18	10.00'	6.86'	39°17'28"	3.57'
C19	150.00'	52.62'	20°05'56"	26.58'
C20	73.00'	40.33'	40°33'50"	26.98'
C21	0.50'	1.57'	180°00'00"	INFINITY
C22	0.50'	1.57'	180°00'00"	INFINITY
C23	10.00'	5.30'	30°20'37"	2.71'
C24	11.00'	5.83'	30°20'37"	2.98'
C25	74.00'	40.83'	31°37'00"	20.95'
C26	73.00'	40.28'	31°37'00"	20.87'
C27	0.50'	1.57'	180°00'00"	INFINITY
C28	0.50'	1.57'	180°00'00"	INFINITY
C29	15.50'	18.16'	67°07'16"	10.28'
C30	2.50'	2.93'	67°07'00"	1.68'
C31	6.00'	9.43'	90°00'16"	6.00'
C32	6.00'	9.42'	90°00'00"	6.00'



CONSTRUCTION NOTES	
NO	ITEM
1	CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216
2	SAWCUT NEAT & MATCH EXISTING
3	ASPHALT S/W 2" AC OVER 6" TYPE II
4	CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I
5	CONSTRUCT SIDEWALK PER CCAUSD NO. 234
6	CONSTRUCT 4.5" AC OVER 5" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016
7	CONSTRUCT 4" AC OVER 4" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PER COWP HITE 17
8	CONSTRUCT COMMERCIAL CURB RETURN DRIVEWAY PER CCAUSD NO. 222.1 & 225
9	CONSTRUCT 8" CONCRETE VALLEY GUTTER PER CCAUSD NO. 228
10	CONSTRUCT MEDIAN ISLAND PER CCAUSD DWG NO. 218 AND WITH "A" TYPE ISLAND CURB PER CCAUSD NO. 219
11	DEMOLISH AND REMOVE EXISTING ASPHALT
12	CONSTRUCT BUS STOP & PAD PER CCAUSD NO. 234.1, 234.2 & 234.4
13	CONCRETE BARRIER PER CCAUSD NO. 237
14	ADJUST EX. MANHOLE & COLLAR, VAULT, PULLBOX, VALVE OR BOX TO FINISHED GRADE (TYPICAL). CONTRACTOR TO VERIFY EX. LID IS TRAFFIC RATED IF APPLICABLE & PROVIDE TRAFFIC RATED LID WHERE REQUIRED
15	CONSTRUCT S/W DRAIN PER CCAUSD NO. 236
16	CONSTRUCT 2" CONCRETE FLUME PER DETAIL 3 ON SHEET D2
17	CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW

ACCEPTANCE OF PLANS FOR FILING BY

ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM DAMAGES WHICH MAY RESULT FROM CONSTRUCTION OF THE IMPROVEMENTS FROM THE ENGINEERING DESIGN DEPICTED HEREIN.

NOTE: POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO THE CLARK COUNTY.

STORMWATER MANAGEMENT NOTES:

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 THE CITY OF LAS VEGAS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION 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 AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CITY OF LAS VEGAS BUILDING ADMINISTRATIVE CODE 25.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR 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 NVRI00000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS 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. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT, CLV D54809 & CLARK COUNTY HTE#16-48274 & HTE#17-28627.

Trease Wolf 11-14-17
TREASE WOLF, P.E. No. 7879 DATE

CLV#: 107V766 CC#: HTE: 17-41363
CLV#: 67712

CLARK COUNTY CONCURRENCE
NO WORK TO BE PERFORMED IN CLARK COUNTY RIGHT-OF-WAY UNTIL CLARK COUNTY APPROVAL IS OBTAINED

LEGEND & ABBREVIATIONS
SEE COVER SHEET FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION
SEE COVER SHEET FOR FULL LEGAL DESCRIPTION.

BENCHMARK
BENCHMARK: 12LV98 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.06mm = 2815.17ft. (NAVD 88)

BASIS OF BEARINGS
NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

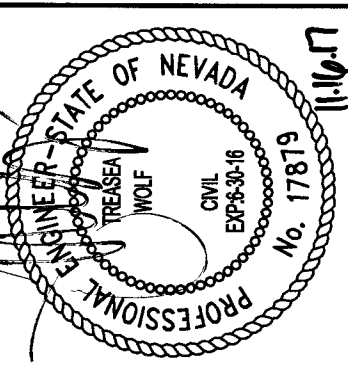
NOTES
ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.

SIGHT VISIBILITY ZONES NOTE
NO WALLS, FENCES, TREES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM THE TOP OF CURB.

FLOODZONE
THE PARCEL DESCRIBED HEREON LIES WITHIN THE FLOOD HAZARD ZONE HAVING A ZONE DESIGNATION OF "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) BY THE SECRETARY OF HOUSING AND URBAN DEVELOPMENT, AS SHOWN PER FEMA MAPS, NO. 32003C1750 E AND NO. 32003C1745 E BOTH DATED SEPTEMBER 27, 2002.

REVISIONS		DATE	BY
No.			

Kimley»Horn
6871 LAS VEGAS BLVD. S., SUITE 300, LAS VEGAS, NV 89119
PHONE: 702-962-3600
WWW.KIMLEY-HORN.COM

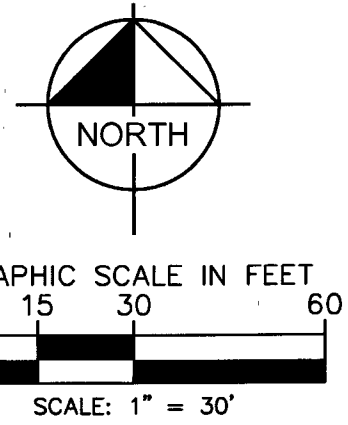
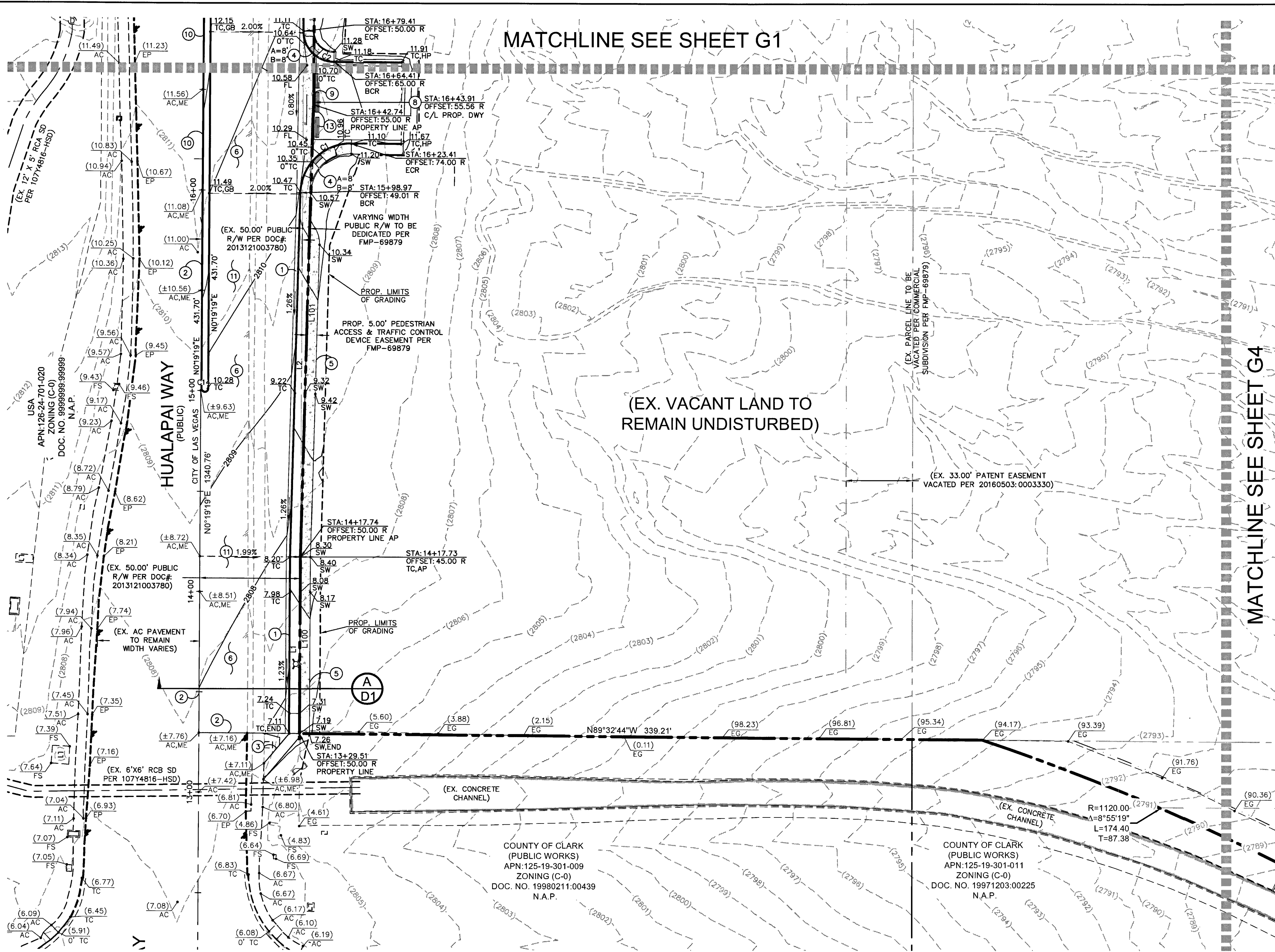


KHA PROJECT	61153.52
DATE	10/6/17
SCALE	AS SHOWN
DESIGNED BY	JZ
DRAWN BY	JZ
CHECKED BY	TW

PRECISE GRADING PLAN
SHEET 2 OF 4

COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI
G2

Plotted By: Zico, Jodynn Sheet Set: KHA Project 61153-52 Layout: 03 October 06, 2017 09:50:03am W:\61153-LAUNCH\DWG\MPRD\GWS\OFFSITE\04-61153-G1.dwg
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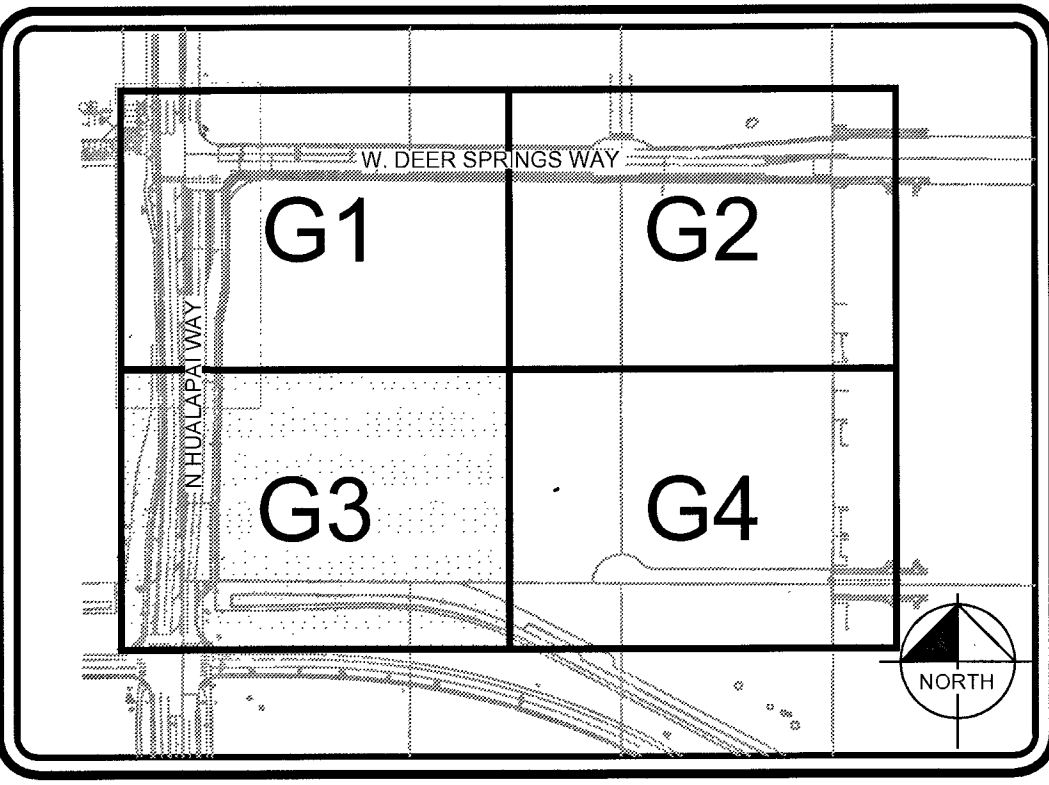


BOUNDARY CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C100	95.00'	30.17'	18°11'42"	15.21'
C101	105.00'	33.34'	18°11'42"	16.81'
C102	25.00'	39.36'	90°12'45"	25.09'
C103	17.00'	3.03'	101°2'18"	1.52'
C104	33.00'	5.88'	101°2'18"	2.95'

BOUNDARY LINE TABLE		
LINE	LENGTH	BEARING
L100	88.23'	N00°19'19"E
L101	225.06'	S01°35'42"W
L102	87.55'	N81°27'08"E
L103	136.93'	N00°19'19"E
L104	141.18'	N89°27'56"W
L105	51.98'	N79°15'39"W
L106	100.00'	N89°27'56"W
L107	73.77'	N81°27'05"E
L108	150.99'	N89°15'41"E
L109	67.74'	N89°27'56"W

OFF-SITE CURB LINE TABLE		
LINE	LENGTH	BEARING
L1	88.23'	N00°19'19"E
L2	161.28'	N11°37'17"E
L3	50.88'	N01°19'19"E
L4	139.93'	N01°19'19"E
L5	58.14'	N89°27'56"W
L6	10.06'	N89°27'56"W
L7	52.29'	N79°15'39"W
L8	100.00'	N89°27'56"W
L9	125.84'	N89°15'41"E
L10	15.45'	N89°15'41"E
L11	240.98'	N89°27'56"W
L12	300.81'	N89°27'56"W
L13	3.02'	N88°11'35"W
L14	0.45'	N88°11'35"W
L15	98.99'	N89°15'41"E
L16	73.71'	N89°27'56"W
L17	73.71'	N89°27'56"W
L18	73.71'	N89°27'56"W
L19	22.00'	N89°27'40"E
L20	44.26'	N89°27'56"W
L21	82.85'	S89°27'40"E
L22	0.01'	N00°32'20"E

OFF-SITE CURB CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	25.00'	38.71'	88°43'37"	24.45'
C2	15.00'	23.56'	90°00'00"	15.00'
C3	100.00'	31.76'	18°11'42"	16.01'
C4	100.00'	31.76'	18°11'42"	16.01'
C5	30.00'	47.24'	90°12'45"	30.11'
C6	25.00'	30.33'	69°30'46"	17.35'
C7	15.00'	23.56'	90°00'00"	15.00'
C8	25.00'	41.57'	92°37'44"	2.07'
C9	25.00'	4.45'	101°2'18"	2.23'
C10	25.00'	39.27'	90°00'00"	25.00'
C11	15.00'	23.23'	88°43'37"	14.67'
C12	25.00'	39.83'	91°16'23"	25.56'
C13	15.00'	23.56'	90°00'00"	15.00'
C14	1.50'	4.71'	180°00'00"	INFINITY
C15	1.50'	4.71'	180°00'00"	INFINITY
C16	0.50'	1.57'	180°00'00"	INFINITY
C17	200.00'	65.72'	18°49'35"	33.16'
C18	10.00'	6.86'	39°17'28"	3.57'
C19	150.00'	52.62'	20°05'56"	26.58'
C20	73.00'	51.68'	40°33'50"	26.98'
C21	0.50'	1.57'	180°00'00"	INFINITY
C22	0.50'	1.57'	180°00'00"	INFINITY
C23	10.00'	5.30'	30°20'37"	2.71'
C24	11.00'	5.83'	30°20'37"	2.98'
C25	74.00'	40.83'	31°37'00"	20.95'
C26	73.00'	40.28'	31°37'00"	20.67'
C27	0.50'	1.57'	180°00'00"	INFINITY
C28	0.50'	1.57'	180°00'00"	INFINITY
C29	15.50'	18.16'	67°07'16"	10.28'
C30	2.50'	2.93'	67°07'16"	1.66'
C31	6.00'	9.43'	90°00'16"	6.00'
C32	6.00'	9.42'	90°00'00"	6.00'



CONSTRUCTION NOTES	
NO	ITEM
1	CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216
2	SAWCUT NEAT & MATCH EXISTING
3	ASPHALT S/W 2" AC OVER 6" TYPE II
4	CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I
5	CONSTRUCT SIDEWALK PER CCAUSD NO. 234
6	CONSTRUCT 4.5" AC OVER 5" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016
7	CONSTRUCT 4" AC OVER 4" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PER CCAUSD HTE#17-415623
8	CONSTRUCT COMMERCIAL CURB RETURN DRIVEWAY PER CCAUSD NO. 222.1 & 225
9	CONSTRUCT 8" CONCRETE VALLEY GUTTER PER CCAUSD NO. 228
10	CONSTRUCT MEDIAN ISLAND PER CCAUSD DWG NO. 218 AND WITH "A" TYPE ISLAND CURB PER CCAUSD NO. 219
11	DEMOLISH AND REMOVE EXISTING ASPHALT
12	CONSTRUCT BUS STOP & PAD PER CCAUSD NO. 234.1, 234.2 & 234.4
13	CONCRETE BARRIER PER CCAUSD NO. 237
14	ADJUST EX. MANHOLE & COLLAR, VAULT, PULLBOX, VALVE OR BOX TO FINISHED GRADE (TYPICAL). CONTRACTOR TO VERIFY EX. LID IS TRAFFIC RATED IF APPLICABLE & PROVIDE TRAFFIC RATED LID WHERE REQUIRED
15	CONSTRUCT S/W DRAIN PER CCAUSD NO. 236
16	CONSTRUCT 2" CONCRETE FLUME PER DETAIL 3 ON SHEET D2
17	CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219

STORMWATER MANAGEMENT NOTES:

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 THE CITY OF LAS VEGAS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION 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 AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CITY OF LAS VEGAS BUILDING ADMINISTRATIVE CODE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR 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 NVR100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS 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. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT, CLV D54809 & CLARK COUNTY HTE#16-48274 & HTE#17-28627.

Treasea Wolf 10.9.17
TREASEA WOLF, P.E. No. 17878 DATE

NOTES
ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.
SIGHT VISIBILITY ZONES NOTE
NO WALLS, FENCES, TREES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM THE TOP OF CURB.
FLOODZONE
THE PARCEL DESCRIBED HEREON LIES WITHIN THE FLOOD HAZARD ZONE HAVING A ZONE DESIGNATION OF "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) BY THE SECRETARY OF HOUSING AND URBAN DEVELOPMENT, AS SHOWN PER FEMA MAPS, NO. 32003C1750 E AND NO. 32003C1745 E BOTH DATED SEPTEMBER 27, 2002.

LEGEND & ABBREVIATIONS
SEE COVER SHEET FOR MASTER LEGEND AND ABBREVIATIONS.
LEGAL DESCRIPTION
SEE COVER SHEET FOR FULL LEGAL DESCRIPTION.
BENCHMARK
BENCHMARK: 12LV99 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.066m = 2815.17ft. (NAVD 88)
BASIS OF BEARINGS
NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

ENGINEER'S NOTES:

1. ALL WORK SHALL CONFORM TO THE SOILS REPORT PREPARED BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PROJECT NO. 4126J0030.
2. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST EDITION.
3. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE THE TOP OF THE GUTTER (INCLUDING OPEN GRADE).
4. CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION
5. THIS PLAN SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY ALL APPLICABLE GOVERNMENT AGENCIES.
6. ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.
7. MATCH ELEVATIONS SHOWN TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
8. THIS PROJECT IS NOT PART OF AN EXISTING COMMERCIAL SUBDIVISION.
9. PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES SUCH AS BUT NOT LIMITED TO THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF THE VEGETATION.

Kimley»Horn

6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

STATE OF NEVADA
CIVIL
PROFESSIONAL
No. 18919
10.9.17

KHA PROJECT 61153.52
DATE 10/6/17
SCALE AS SHOWN
DESIGNED BY JZ
DRAWN BY JZ
CHECKED BY TW

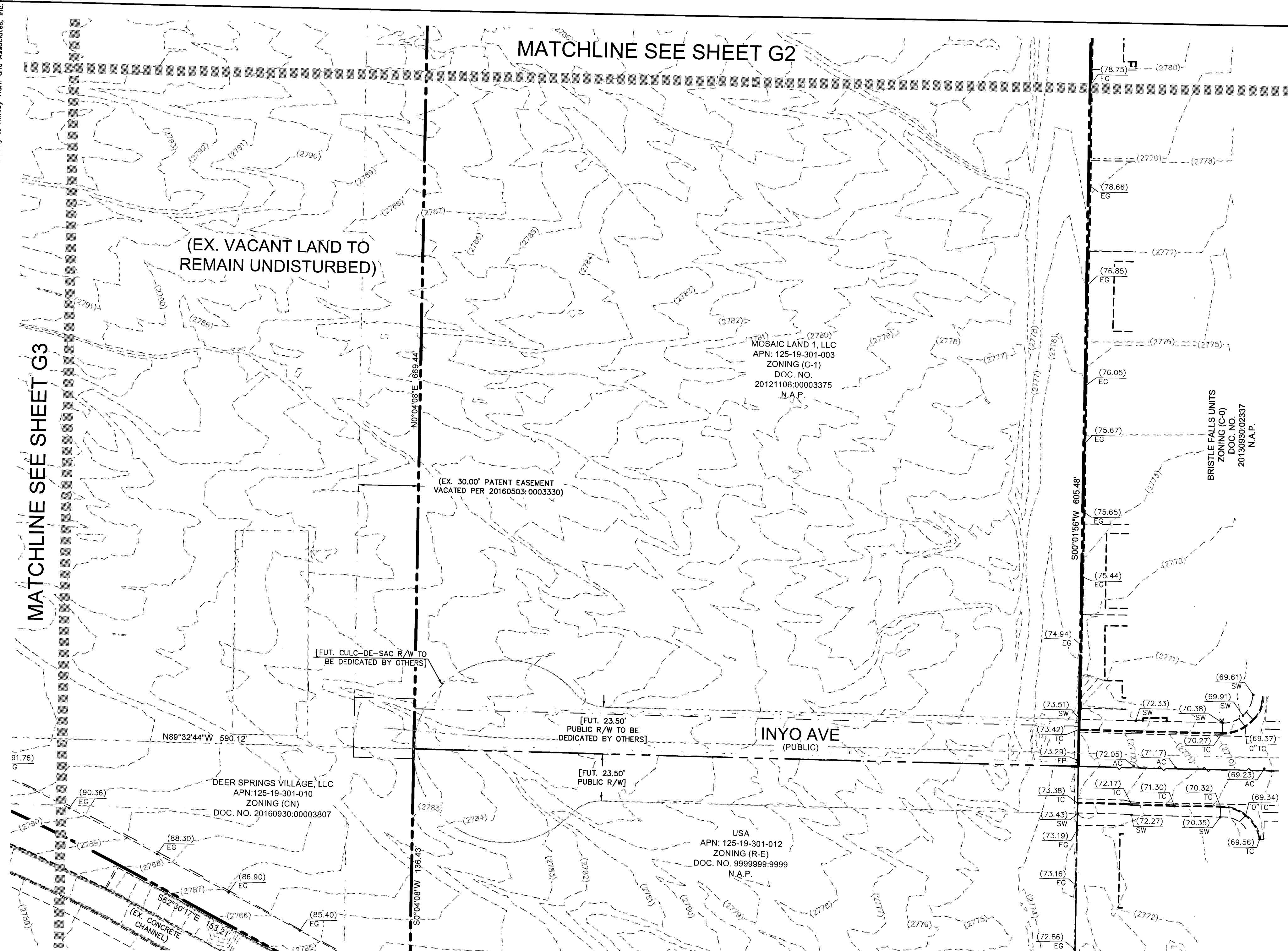
PRECISE GRADING PLAN
SHEET 3 OF 4

COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI

8 OF 17 SHEETS
G3

CC#: HTE: 17-41363
CLV#: 67712

Plotted By: Ziko, Jody, Lynn Sheet Set: kha Layout: G4 October 06, 2017 09:50:18m W: 61153 LAURICH.DWG\MPRDS\OFFSITE\04-61153-C1.dwg
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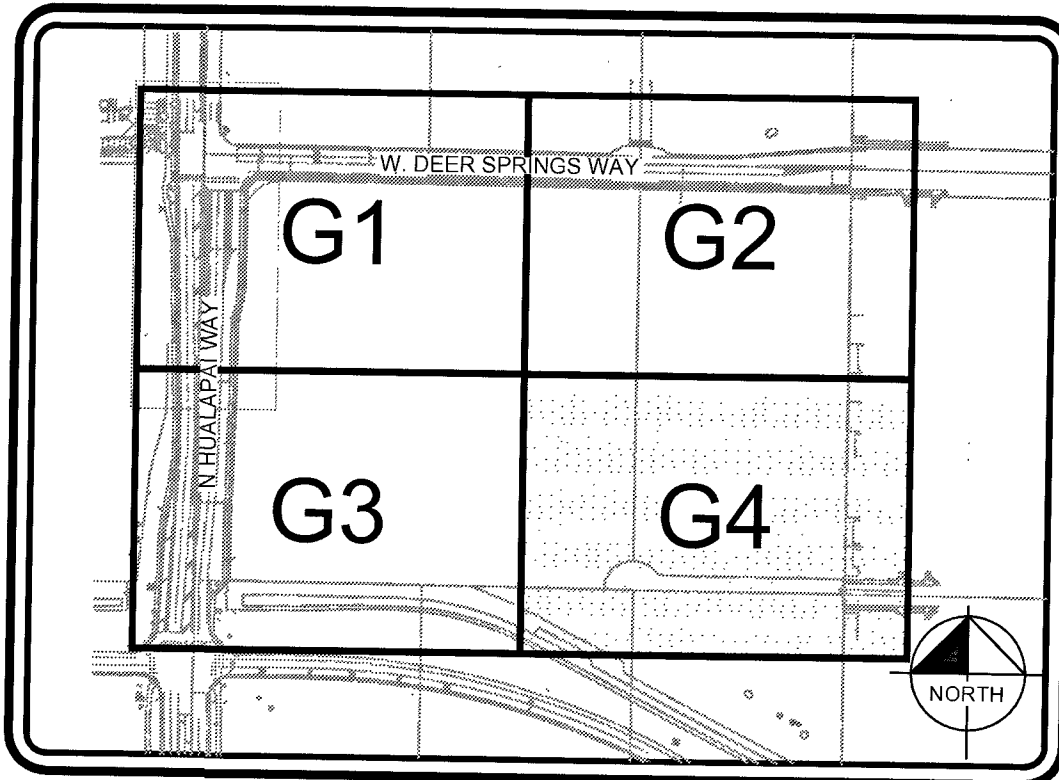
BOUNDARY LINE TABLE		
LINE	LENGTH	BEARING
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OFF-SITE CURB LINE TABLE		
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L2	181.28'	N1°35'17"E
L3	50.88'	N0°19'19"E
L4	139.93'	N0°19'19"E
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C6	25.00'	30.33'	69°30'46"	17.35'
C7	15.00'	23.56'	90°00'00"	15.00'
C8	25.00'	4.13'	9°27'44"	2.07'
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C16	0.50'	1.57'	180°00'00"	INFINITY
C17	200.00'	65.72'	18°49'35"	33.16'
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C28	0.50'	1.57'	180°00'00"	INFINITY
C29	15.50'	18.16'	67°07'16"	10.28'
C30	2.50'	2.93'	67°07'00"	1.66'
C31	6.00'	9.43'	90°00'16"	6.00'
C32	6.00'	9.42'	90°00'00"	6.00'



GRAPHIC SCALE IN FEET
0 15 30 60
SCALE: 1" = 30'



KEY MAP
N.T.S.

CONSTRUCTION NOTES	
NO	ITEM
1	CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216
2	SAWCUT NEAT & MATCH EXISTING
3	ASPHALT S/W 2" AC OVER 6" TYPE II
4	CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I
5	CONSTRUCT SIDEWALK PER CCAUSD NO. 234
6	CONSTRUCT 4.5" AC OVER 5" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016
7	CONSTRUCT 4" AC OVER 4" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PER CDPW HTE# 17-48563
8	CONSTRUCT COMMERCIAL CURB RETURN DRIVEWAY PER CCAUSD NO. 222.1 & 223
9	CONSTRUCT 8" CONCRETE VALLEY GUTTER PER CCAUSD NO. 228
10	CONSTRUCT MEDIAN ISLAND PER CCAUSD DWG NO. 218 AND WITH "A" TYPE ISLAND CURB PER CCAUSD NO. 219
11	DEMOLISH AND REMOVE EXISTING ASPHALT
12	CONSTRUCT BUS STOP & PAD PER CCAUSD NO. 234.1, 234.2 & 234.4
13	CONCRETE BARRIER PER CCAUSD NO. 237
14	ADJUST EX. MANHOLE & COLLAR, VAULT, PULLBOX, VALVE OR BOX TO FINISHED GRADE (TYPICAL). CONTRACTOR TO VERIFY EX. LID IS TRAFFIC RATED IF APPLICABLE & PROVIDE TRAFFIC RATED LID WHERE REQUIRED
15	CONSTRUCT S/W DRAIN PER CCAUSD NO. 236
16	CONSTRUCT 2' CONCRETE FLUME PER DETAIL 3 ON SHEET D2
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- TEMPORARY OR 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 NVR100000, SECTION III.A.5.
- AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS 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. THE CONTRACTOR OR HIS AGENT SHALL UPDATE THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
- ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT, CLV DS4809 & CLARK COUNTY HTE#16-48274 & HTE#17-28627.

TREASEA WOLF, P.E. No. 17879

10.9.17

DATE

CC#: HTE: 17-41363
CLV#: 10717168
CLV#: 67712

NOTES

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OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.

SIGHT VISIBILITY ZONES NOTE

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FLOODZONE

THE PARCEL DESCRIBED HEREON LIES WITHIN THE FLOOD HAZARD ZONE HAVING A ZONE DESIGNATION OF "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) BY THE SECRETARY OF HOUSING AND URBAN DEVELOPMENT, AS SHOWN PER FEMA MAPS, NO. 32003C1750 E AND NO. 32003C1745 E BOTH DATED SEPTEMBER 27, 2002.

LEGEND & ABBREVIATIONS

SEE COVER SHEET FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION

SEE COVER SHEET FOR LEGAL DESCRIPTION.

BENCHMARK

BENCHMARK: 12LV99 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 888.066m = 2815.179ft. (NAVD 88)

BASIS OF BEARINGS

NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

ENGINEER'S NOTES:

- ALL WORK SHALL CONFORM TO THE SOILS REPORT PREPARED BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PROJECT NO. 4126JD030.
- ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST EDITION.
- FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE THE TOP OF THE GUTTER (INCLUDING OPEN GRADE).
- CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION.
- THIS PLAN SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNLIT APPROVED AND SIGNED BY ALL APPLICABLE GOVERNMENT AGENCIES.
- ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.
- MATCH ELEVATIONS SHOWN TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
- THIS PROJECT IS NOT PART OF AN EXISTING COMMERCIAL SUBDIVISION.
- PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES SUCH AS BUT NOT LIMITED TO THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF THE VEGETATION.



Kimley»Horn

6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

STATE OF NEVADA
Professional Engineer
TREASEA WOLF
No. 17879

KHA PROJECT
61153.52
DATE
10/6/17
SCALE AS SHOWN
DESIGNED BY JZ
DRAWN BY JZ
CHECKED BY TW

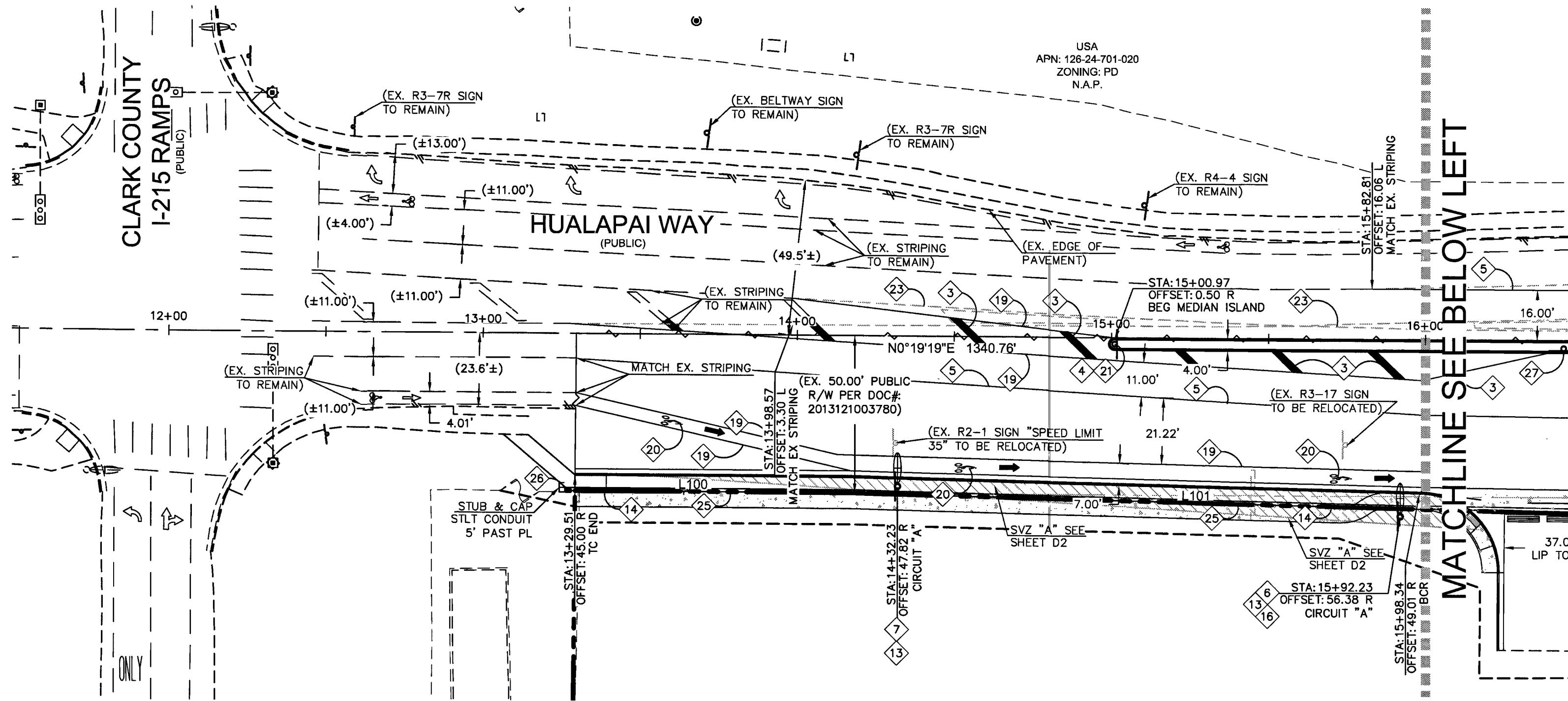
PRECISE GRADING PLAN
SHEET 4 OF 4

COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI

9 OF 17 SHEETS
G4

REVISIONS
DATE
BY

Plotted By: Zito, Jolynn Sheet Set: No Layout: T1 October 06, 2017 09:51:57am W: 61153 LAURICH.DWG IMPROVEMENTS OFFSITE 07-61153-T1.dwg
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



LEGAL DESCRIPTION
SEE COVER SHEET FOR FULL LEGAL DESCRIPTION.

BASIS OF BEARINGS
NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

BENCHMARK
BENCHMARK: 12LV99 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.066m = 2815.17ft. (NAVD 88)

SIGHT VISIBILITY ZONES NOTE
NO WALLS, FENCES, TREES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM THE TOP OF CURB.

NOTES:
ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED. OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBTAINED DURING CONSTRUCTION.

LEGEND

PROPERTY LINE

STREET CENTERLINE

PROPOSED BUILDING

PROPOSED CURB & GUTTER

PROPOSED CURB

EXISTING CURB & GUTTER

EXISTING CURB

EXISTING STRIPING

PROPOSED STRIPING

FAST CONDUIT

STREET LIGHT CONDUIT

SCREEN WALL/RETAINING

PULLBOX

200 AMP SERVICE PEDESTAL

250 W STREET LIGHT

400 W STREET LIGHT

FIRE HYDRANT

SITE VISIBILITY ZONE

CONTRACTOR NOTES:

1. CONTRACTOR SHALL CONTACT CITY OF LAS VEGAS TRAFFIC OPERATIONS AT 229-6075 TO SCHEDULE CITY TRAFFIC STAFF TO LOCATE UNDERGROUND STREETLIGHTING AND SIGNAL FACILITIES IN THE PROJECT AREA. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED PRIOR TO THEIR OPERATION.

HOURS OF OPERATION ARE: 6:30AM-3:00PM, MONDAY THROUGH FRIDAY, EXCLUDING HOLIDAYS.

2. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS OR PAVEMENT MARKINGS) UNDER CITY OF LAS VEGAS JURISDICTION THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITY TO CITY OF LAS VEGAS SATISFACTION. ALL MATERIALS USED SHALL MEET CITY OF LAS VEGAS SPECIFICATIONS, OR WILL BE AN APPROVED EQUIVALENT.

3. NO STRUCTURE, VEGETATION, OR OBJECT OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXISTS) WITHIN THE SIGHT VISIBILITY ZONES.

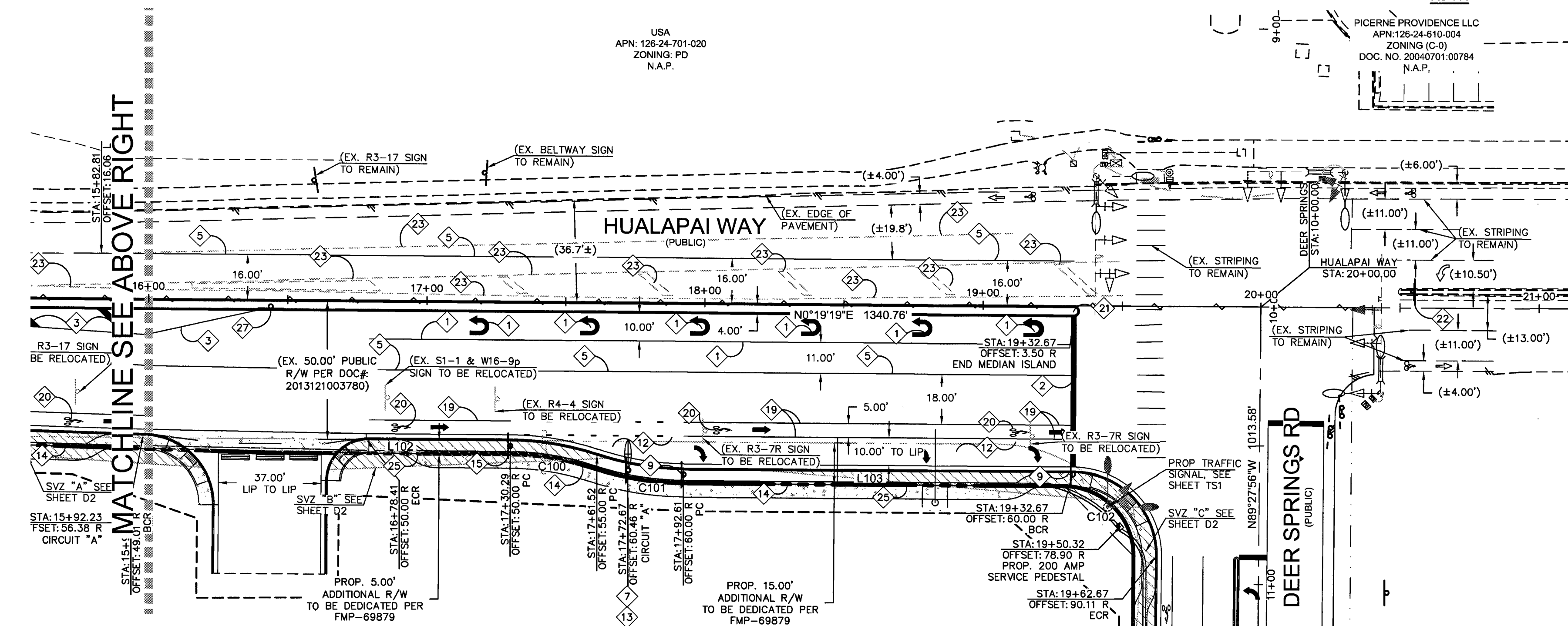
4. CONTRACTOR TO REVIEW UNDERGROUND CONSTRUCTION PER THIS PLAN SET PRIOR TO CONSTRUCTION OF ANY TRAFFIC CONTROL DEVICES.

STREET LIGHTING NOTES:

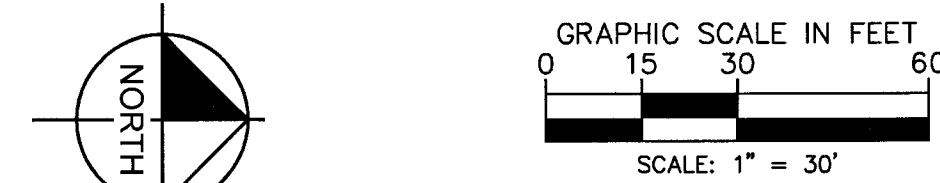
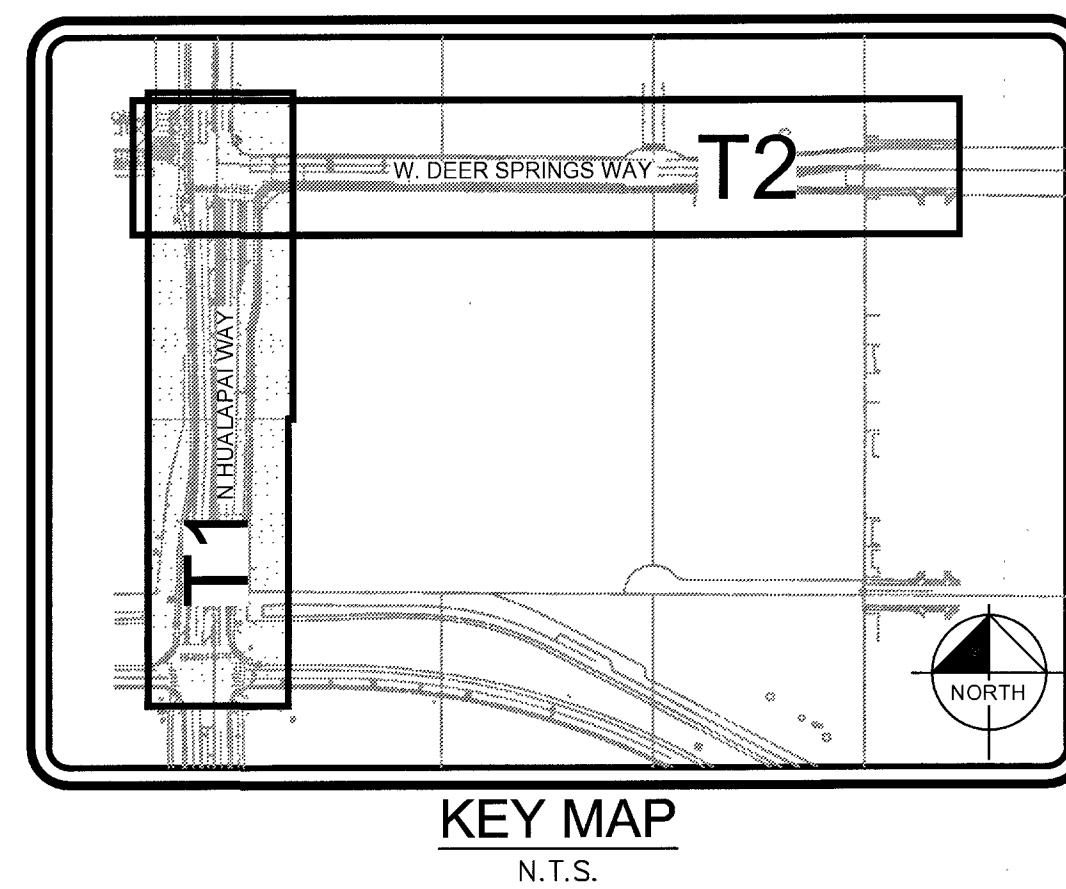
ALL PROPOSED STREET LIGHTS ALONG HUALAPAI WAY, TO MATCH THE EXISTING DECORATIVE LIGHTS.

CLARK COUNTY CONCURRENCE

NO WORK TO BE PERFORMED IN CLARK COUNTY RIGHT-OF-WAY UNTIL CLARK COUNTY APPROVAL IS OBTAINED



SEE SHEET T2 FOR DEER SPRINGS RD



NO	ITEM
1	INSTALL TURN ARROW AND PAVEMENT MARKINGS PER CCAUSD #246
2	INSTALL 24" WIDE STOP BAR AND/OR CROSSWALK MARKINGS PER CCAUSD #254
3	INSTALL LANE DELINEATION WITH 24" CHEVRONS PER CCAUSD #245
4	INSTALL 24"x30" R3-4 (NO U-TURN SIGN)
5	INSTALL TYPE 4 LANE LINE
6	INSTALL 24"x30" R2-1 (SPEED LIMIT SIGN)
7	INSTALL 12"x18" R7-1 (NO PARKING SIGN)
8	INSTALL FORCED LEFT MARKER OR RIGHT TURN STORAGE LANE MARKER PER CCAUSD #246.6
9	INSTALL 30"x30" R3-7R (RIGHT TURN ONLY)
10	INSTALL 24"x36" R3-52P (BUS EXEMPT SIGN)
11	NOT USED
12	INSTALL BICYCLE LANE APPROACH TO EXCLUSIVE RIGHT TURN LANE PER CCAUSD #246.1
13	INSTALL LED FIXTURE CA22-LE-160 LA-AW-UMIV-BLP PER TOWN CENTER STDS. POLE AND FOUNDATION PER CCAUSD #314, #320 & #321
14	INSTALL 1-1/4" PVC STREET LIGHT CONDUIT AND WIRE
15	INSTALL R4-4 (BEGIN RIGHT TURN LANE YIELD TO BIKERS)
16	INSTALL R3-17 (RIGHT TURN BIKERS ONLY)
17	INSTALL R5-1 (DO NOT ENTER)
18	INSTALL R3-2 (NO LEFT TURNS)
19	INSTALL 6" SOLID WHITE LINE (TAPE OR PAINT)
20	INSTALL BICYCLE LANE DELINEATION PER CCAUSD #244.9
21	INSTALL MEDIAN NOSE MARKINGS PER CCAUSD #248 & K-71 FLEXIBLE MARKER POST
22	INSTALL FLASHING YELLOW ARROW U-TURN SIGNAL WITH U-TURN YIELD SIGN
23	OBLITERATE EXISTING STRIPING
24	INSTALL 15' MAST ARM 250W STREETLIGHT AND FOUNDATION PER CCAUSD #316, #320, AND #321
25	INSTALL 4' F.A.S.T. INTERCONNECT CONDUIT CONTAINING (1) #8 BARE WIRE
26	INSTALL P-30 PULL BOX PER CCAUSD #326
27	INSTALL R6-1R (ONE WAY)
28	INSTALL R3-16A (BIKE LANE ENDS)

CURVE	RADIUS	LENGTH	DELTA	TANGENT
C100	95.00'	30.17'	181°14'21"	15.21'
C101	105.00'	33.34'	181°14'21"	16.81'
C102	25.00'	39.36'	90°12'45"	25.09'
C103	17.00'	3.03'	101°21'18"	1.52'
C104	33.00'	5.88'	101°21'18"	2.95'

LINE	LENGTH	BEARING
L100	88.23'	N00°19'19"E
L101	225.06'	S01°35'42"W
L102	87.55'	N81°27'05"E
L103	136.93'	N00°19'19"E
L104	141.18'	N89°27'56"W
L105	51.98'	N79°15'39"W
L106	100.00'	N89°27'56"W
L107	73.77'	N81°27'05"E
L108	150.99'	N89°15'41"E
L109	67.74'	N89°27'56"W

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

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

CC#: HTE: 17-41363
CLV#: 67712

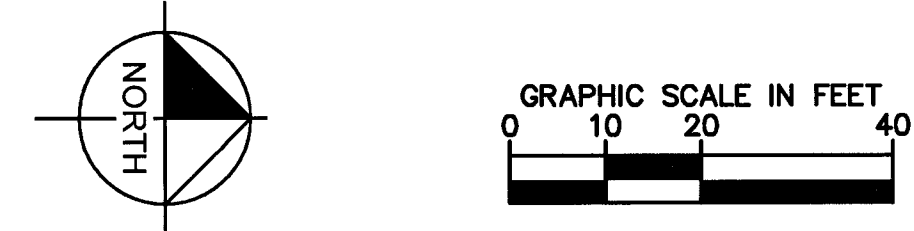
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TRAFFIC CONTROL PLAN
SHEET 1 OF 2

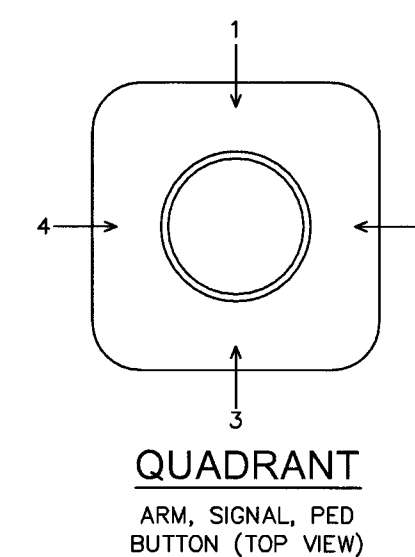
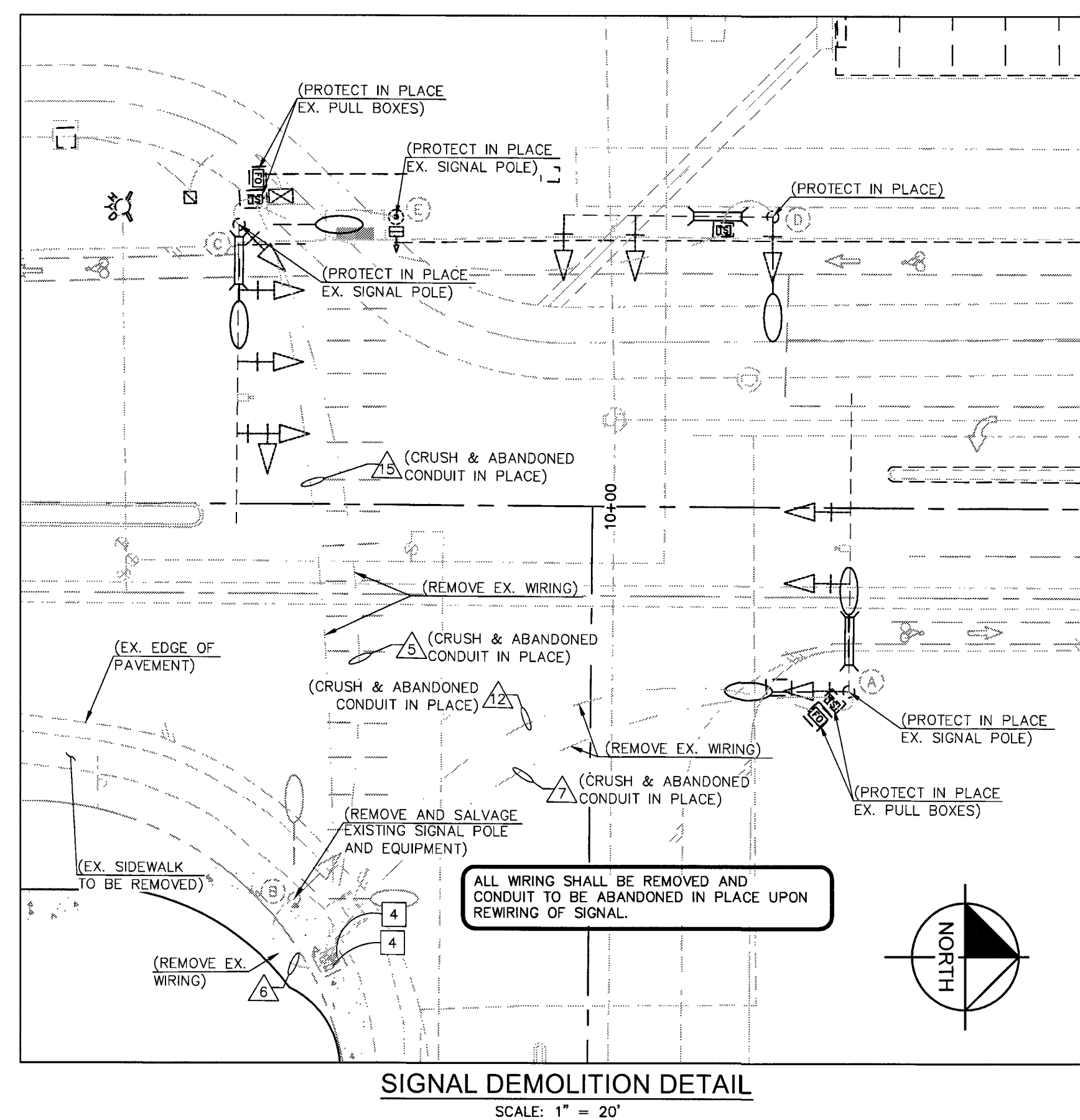
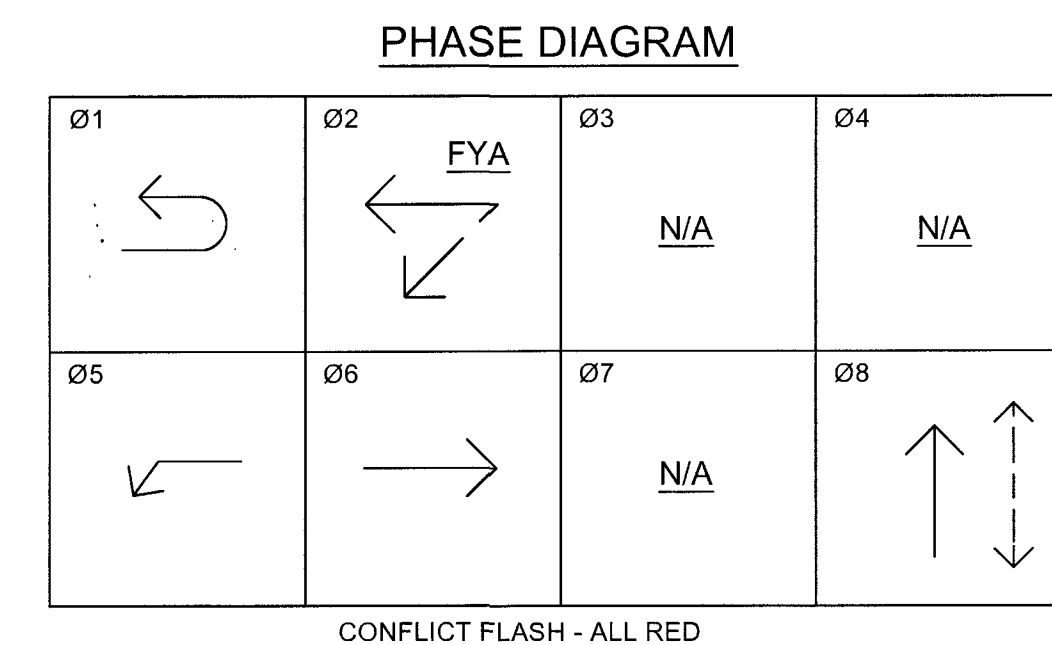
COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI

NO.	REVISIONS	DATE	BY

14 OF 17 SHEETS
T1



	TRAFFIC SIGNAL CONSTRUCTION NOTES
NO	ITEM
1	INSTALL DOUBLE STACKED NO. 5 PULL BOX PER U.S.D. 329 & 706.
2	INSTALL P30 PULL BOX PER U.S.D. 710, 711 & 761.
3	INSTALL TRAFFIC SIGNAL POLE LUMINARIES. PROPOSED LUMINARIES SHALL CONFORM CURRENT (AS OF THE DATE OF INSPECTION) CITY STANDARDS AND SPECIFICATIONS.
4	EXISTING PULL BOX TO REMOVED.
5	EXISTING PULL BOX TO REMAIN, PROTECT IN PLACE.
6	EXISTING TRAFFIC SIGNAL POLE AND EQUIPMENT TO REMAIN, PROTECT IN PLACE.
7	CONTRACTOR SHALL COORDINATE WITH CITY TRAFFIC INSPECTOR REGARDING THE REPROGRAMMING OF TRAFFIC SIGNAL VIDEO DETECTION ZONES
8	INSTALL MODIFIED R3-4 (U-TURN PERMITTED)



1. CONTRACTOR SHALL CONTACT CITY OF LAS VEGAS TRAFFIC OPERATIONS AT 229-6075 TO SCHEDULE CITY TRAFFIC STAFF TO LOCATE UNDERGROUND STREETLIGHTING AND SIGNAL FACILITIES IN THE PROJECT AREA. IF MINIMUM OF TWO OPERATIONS IS REQUIRED PRIOR TO THIS OPERATION.
2. HOURS OF OPERATION ARE: 6:30AM-3:00PM, MONDAY THROUGH FRIDAY, EXCLUDING HOLIDAYS.
3. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS OR PAYMENT MARKINGS) UNDER CITY OF LAS VEGAS JURISDICTION THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITY TO CITY OF LAS VEGAS SATISFACTION. ALL MATERIALS USED SHALL MEET THE CITY OF LAS VEGAS SPECIFICATIONS, OR WILL BE AN APPROVED EQUIVALENT.
4. EXISTING TRAFFIC SIGNAL SHALL REMAIN IN OPERATION THROUGHOUT CONSTRUCTION.
5. CONTRACTOR TO REVIEW UNDERGROUND CONSTRUCTION PERMITS AND ANNOTATIONS FOR LAS VEGAS PROVISIONS FOR TRAFFIC IMPROVEMENTS DWG. NO. 1075/781 SET PRIOR TO CONSTRUCTION OF ANY TRAFFIC CONTROL DEVICES.
6. CONDUIT ROUTING AND PULLBOX PLACEMENT LOCATIONS ARE SHOWN SCHEMATICALLY ON THE PLANS AND MAY VARY IN THE FIELD.
7. COORDINATE WITH CITY INSPECTOR ON RETURN OF SALVAGED TRAFFIC SIGNAL EQUIPMENT.
8. CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNAL PHASING.

NOTE
REFER TO SHEET TS2 FOR CONDUIT, WIRE & POLE SCHEDULE

BASIS OF BEARINGS

NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

BENCHMARK
BENCHMARK: 12LV99 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE T
OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS
WAY = 858.066m = 2815.17sft. (NAVD 88)



CLV#: 107V7168

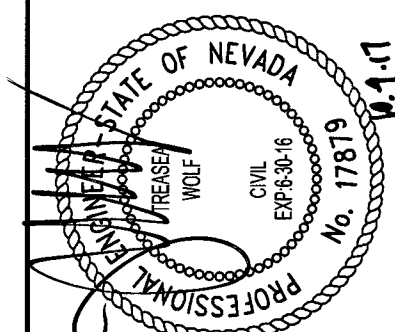
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CLV#: 67712

TRAFFIC SIGNAL PLAN
SHEET 1 OF 2

COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI

[illegible]

Kimley»Horn



KHA PROJECT
61153.52
DATE
10/6/17
SCALE AS SHOWN
DESIGNED BY MS
DRAWN BY MS
CHECKED BY TA

Plotted By: Zita, Jd, jrm, Sheet Set: Kts Layout: TS2 October 06, 2017 09:52:26am W:\61153\LAURICA\DWG\IMPROV\OFFSITE\09-61153-TS1.dwg
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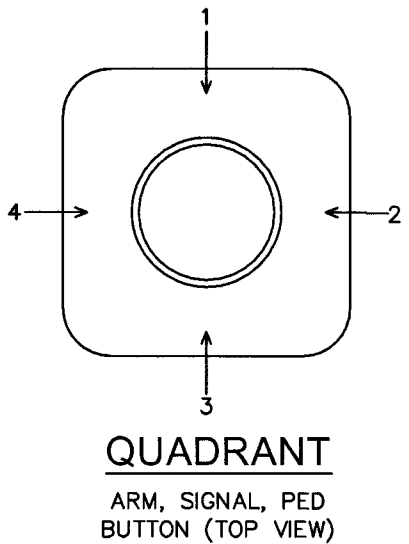
POLE SCHEDULE														
POLE								SIGNALS				PEDESTRIAN PUSH BUTTON		REMARKS
								VEHICLE		PEDESTRIAN				
POLE NO.	LOCATION STATION & OFFSET	TYPE	FOUND	MAST ARM		LUMINAIRE		TYPE	QUAD	TYPE	QUAD	ARROW	QUAD	
		HEIGHT		QUAD	LENGTH	QUAD	LENGTH							
(A)	STA: 20+43.14 OFF: 30.72' RT	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(2) M-2 (EX) (1) B-1T (EX) (1) MODIFIED R3-4	MA (EX) MA (EX) 3 (EX)	-	-	-	-	
(B)	STA: 19+50.32 OFF: 66.27' RT	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(1) B-8T (EX)	3 (EX)	(EX)	(EX)	(EX)	(EX)	
(C)	STA: 19+40.42 OFF: 46.72' LT	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(1) M-2AS(EX) (2) M-2(EX) (1) B-2T(EX)	MA (EX) MA (EX) MA (EX) 3 (EX)	-	-	-	-	
(D)	STA: 20+29.94 OFF: 48.65' LT	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(2) M-2(EX) (1) B-1T(EX)	MA (EX) MA (EX) 4 (EX)	-	-	-	-	
(E)	STA: 19+64.87 OFF: 46.26' LT	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	-	-	(EX)	(EX)	(EX)	(EX)	
(F)	STA: 19+45.24 OFF: 72.38'	XX	H	2	-	1 2	15' 15'	(1) B-8T	3	W-OT	1	RIGHT	2	

* PROPOSED LUMINARIES SHALL CONFORM WITH CURRENT (AS OF THE DATE OF INSPECTION) CITY OF LAS VEGAS STANDARDS & SPECIFICATIONS

CONDUIT AND WIRE SCHEDULE

WIRE & CABLE	FROM	TO	CONDUIT																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PER NV ENERGY PLAN	RS-19	SERVICE PEDESTAL	O																	
(4) No. 4 AWG THW, 1-8 SERVICE ENTRANCE	SERVICE PEDESTAL	CONTROLLER		O																
(1) 25 COND. No. 14, (4) No. 10, (1) No. 8 8281 COAX VIDEO, (3) 16 COND. PVC JACKETED OPTICOM CABLE	CONTROLLER	POLE A			O		O			O		O								
(7) 25 COND. No. 14, (4) No. 10, (1) No. 8, (3) 16 COND. PVC JACKETED	CONTROLLER	POLE B			O		O			O		O								
(1) 25 COND. No. 14, (1) No. 8 OPTICAL CABLE 8281 COAX VIDEO	CONTROLLER	POLE C			O		O			O		O								
(4) No. 10, (3) 16 COND. PVC JACKETED	CONTROLLER	POLE D			O		O			O		O								
(1) 25 COND. No. 14, (1) No. 8 OPTICAL CABLE 8281 COAX VIDEO	CONTROLLER	POLE E			O		O			O		O								
(4) No. 10, (3) 16 COND. PVC JACKETED	CONTROLLER	POLE F			O		O			O		O								
(1) 15 COND. No. 14, (1) No. 8	CONTROLLER	POLE E			O		O			O		O								
PULL STRING & TRACER WIRE, [BY CONTRACTOR]	EX. PULLBOX	CONTROLLER																		
(1) No. #8, (2) No. 4	CONTROLLER	STREETLIGHTS			O	O	O	O	O	O	O	O								
(1) 25 COND. No. 14, (1) No. 8 8281 COAX VIDEO	CONTROLLER	POLE A																		
(4) No. 10, (3) 16 COND. PVC JACKETED OPTICOM CABLE	CONTROLLER	POLE A																		
(1) 25 COND. No. 14, (1) No. 8 8281 COAX VIDEO	CONTROLLER	POLE F																		
(4) No. 10, (3) 16 COND. PVC JACKETED OPTICOM CABLE	CONTROLLER	POLE F																		
FAST WIRING (MATCH EXISTING)																				

CONTRACTOR SHALL INSTALL TRACER WIRE IN ALL CONDUITS THAT ARE EMPTY (NO CONDUCTORS/CABLING)
* CONTRACTOR SHALL COORDINATE WITH NV ENERGY TO CONNECT PROPOSED SERVICE PEDESTAL TO SERVICE POINT
O EXISTING CONDUIT
● PROPOSED CONDUIT



TRAFFIC SIGNAL CONSTRUCTION NOTES

NO	ITEM
1	INSTALL DOUBLE STACKED NO. 5 PULL BOX PER U.S.D. 329 & 706.
2	INSTALL P30 PULL BOX PER U.S.D. 710, 711 & 761.
3	INSTALL TRAFFIC SIGNAL POLE LUMINARIES. PROPOSED LUMINARIES SHALL CONFORM CURRENT (AS OF THE DATE OF INSPECTION) CITY STANDARDS AND SPECIFICATIONS.
4	EXISTING PULL BOX TO REMOVED.
5	EXISTING PULL BOX TO REMAIN, PROTECT IN PLACE.
6	EXISTING TRAFFIC SIGNAL POLE AND EQUIPMENT TO REMAIN, PROTECT IN PLACE
7	CONTRACTOR SHALL COORDINATE WITH CITY TRAFFIC INSPECTOR REGARDING THE REPROGRAMMING OF TRAFFIC SIGNAL VIDEO DETECTION ZONES
8	INSTALL MODIFIED R3-4 (U-TURN PERMITTED)

TRAFFIC SIGNAL EQUIPMENT LEGEND

EXISTING	PROPOSED	
		CENTERLINE
		RIGHT OF WAY LINE
		STREETLIGHT CONDUIT
		TRAFFIC SIGNAL CONDUIT
		FIBER OPTIC CONDUIT
		SERVICE PEDESTAL
		CONTROLLER CABINET
		TRAFFIC SIGNAL PULL BOX
		FIBER OPTIC P30 PULL BOX
		FIBER OPTIC T200 VAULT
		ILLUMINATED STREET NAME SIGN
		400W LUMINAIRE
		VIDEO IMAGE DETECTOR
		TRAFFIC SIGN
		SIGNAL POLE AND FOUNDATION
		OPTICOM (ONE-WAY)
		OPTICOM (TWO-WAY)
		PEDESTRIAN SIGNAL HEAD
		STANDARD 3 BULB (12" HEAD) TRAFFIC SIGNAL HEAD WITH BACKPLATE
		STANDARD 3 BULB (12" HEAD) TRAFFIC SIGNAL HEAD WITH DIRECTIONAL ARROW AND BACKPLATE
		STANDARD 4 BULB (12" HEAD) TRAFFIC SIGNAL HEAD WITH DIRECTIONAL ARROW AND BACKPLATE

NOTE
REFER TO SHEET TS1 FOR TRAFFIC SIGNAL PLAN

BASIS OF BEARINGS

NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

BENCHMARK

BENCHMARK: 12LV89 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.066m = 2815.17ft. (NAVD 88)



CLV#: 10707168

CC#: HTE: 17-41363
CLV#: 67712

CLV 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 EFFECTIVE MARCH 30, 2001.
- 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 1-702-593-6111
CALL-BEFORE-YOU-DIG 1-800-227-2600
STREETLIGHTS (NEVA EVANS) 1-702-229-6331
F.A.S.T. (JESUS MARMOLEJO) 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.
- SERVICE SHALL HAVE 1-60 AMP SINGLE POLE BREAKER FOR SIGNAL, AND ONE 40 AMP SINGLE POLE BREAKERS FOR STREET LIGHTS. SERVICE SHALL BE 200 AMP PADMOUNT.
- LINE SIDE OF METER TO BE WIRED WITH THREE #3/0 AWG THW. LOAD SIDE SHALL BE WIRED WITH FOUR #4 AWG THW (2 BLACK, 2 WHITE) AND ONE #8 AWG THW (GREEN).
- LUMINAIRES ON ALL SIGNAL POLES SHALL BE 400 WATT HIGH PRESSURE SODIUM CUTOFF (G.E. M400A) WITH MC-111 DISTRIBUTION. EACH LUMINAIRE SHALL HAVE AN INDIVIDUAL 1000 WATT P.E. CONTROL. FOR LUMINAIRES THERE SHALL BE 2(TWO)-#4 AWG THW CONDUCTORS FROM THE SERVICE TO THE CABINET. IN THE CABINET, THE #4 AWG THW CONDUCTORS SHALL BRANCH OFF INTO #10 AWG THW CONDUCTORS 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). 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.
- CHECK CONDUIT AND CABLE SCHEDULE FOR CONDUIT, CABLE, AND WIRE SIZE. VERIFY ALL EXISTING CONDUIT RUNS.
- ALL PULLBOXES SHALL BE IN ACCORDANCE WITH UNIFORM STANDARD DRAWINGS NO. 404.110, NO. 404.120, AND NO. 404.130.
- TRAFFIC SIGNAL CABLE SHALL BE 15 OR 25 CONDUCTOR #14 AWG SOLID (TYPICAL) CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1.
- PEDESTRIAN PUSH BUTTONS SHALL BE AUDIBLE TACTILE "POLARA NAVIGATOR" TYPE (2 WIRE SYSTEM) IN ACCORDANCE WITH CITY OF LAS VEGAS SPECIAL PROVISIONS AND SECTION 623 OF THE CGA USS. PUSH BUTTON SIGNS SHALL BE R10-36 PER MUTCD, 2003 EDITION WITH FULL MOUNTING BRACKETS. ALL PUSH BUTTONS TO BE MOUNTED 42" ABOVE SIDEWALK. THE MAXIMUM HORIZONTAL REACH DISTANCE IS TO BE 24". SIDEWALK RAMPS WILL BE ACCORDING TO U.S.D. NO. 235 (1-4) LATEST EDITION.
- THE ROUTING AND TERMINATION OF CONDUITS AND THE PLACING OF POLES AND CABINETS SHALL BE AS INDICATED ON THE PLANS. ALL CHANGES SHALL BE APPROVED BY THE ENGINEER.
- MAST ARM R10-12 SIGNS TO BE ADJACENT (NO GAP) TO THE M-5 SIGNAL HEAD.
- INSTALL TYPE VII CABINET. THIS IS COMMONLY REFERRED TO AS AN "R" CABINET. THE CABINET SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS AND SPECIAL PROVISIONS, CLARK COUNTY AREA, NEVADA. INSTALL CABINET NEAR THE R.O.W. LINE OR AS SHOWN ON THE DRAWINGS.
- THE CONTRACTOR SHALL SUPPLY A 2070N OR M53 CONTROLLER TO THE CITY OF LAS VEGAS TRAFFIC SIGNAL REPAIR SHOP, FOURTEEN DAYS PRIOR TO SIGNAL TURN-ON, FOR TESTING PURPOSES. THE CONTRACTOR SHALL DELIVER THE CONTROLLER TO, AND PICKUP THE CONTROLLER AT 2801 E. CHARLESTON BOULEVARD. CONTRACTOR SHALL NOTIFY THE TRAFFIC SIGNAL REPAIR SHOP (229-6075) SEVEN DAYS PRIOR TO PICK UP. ALL 2070N CONTROLLERS MUST BE COMPATIBLE WITH AND FUNCTION PROPERLY WITH 059 1996 OPERATION SYSTEM; THE LATEST REVISION OF THE "NEXT PHASE INTERSECTION MANAGEMENT SOFTWARE" (SIEMENS) AND THE ICONS (SIEMENS) GENERAL SOFTWARE.
- CONTRACTOR SHALL POT HOLE SIGNAL POLE LOCATIONS PRIOR TO ORDERING OF POLES.
- ALL MAST ARMS TO BE HOT-DIP GALVANIZED BY THE MANUFACTURER THE MAST ARM IS TO BE FABRICATED WITH END TENON ONLY. THE END TENON SHALL BE FACTORY INSTALLED AND THE REMAINING TENONS SHALL BE FABRICATED IN THE FIELD AT THE LOCATION SHOWN ON THE PLANS OR AS DIRECTED BY THE TRAFFIC ENGINEER AND/OR HIS AUTHORIZED REPRESENTATIVE. FOR TENON FABRICATION DETAILS SEE CLARK COUNTY AREA U.S.D. NO. 404.406 SHEET 2. ALL WELDING SHALL CONFORM TO AWS D 2.0, "SPECIFICATION FOR WELDED HIGHWAYS AND RAILWAY BRIDGES," AND TO ANY ADDITIONAL REQUIREMENTS OF SECTION 623.1.02.09 OF THE SPECIFICATIONS. ALL EXPOSED WELDS, SHALL BE PAINTED AS PROVIDED FOR REPAIRING DAMAGED GALVANIZED SURFACES.
- ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL HAVE LIGHT EMITTING DIODE (LED) TYPE INDICATIONS, IN CONFORMANCE TO CITY OF LAS VEGAS SPECIAL PROVISIONS TO SECTION 623 OF THE CGA USS. ALL PEDESTRIAN SIGNAL FACES SHALL PROVIDE "WALKING PERSON," "HAND," AND "COUNTDOWN" MESSAGES AS PROVIDED BY DURALIGHT MODEL #JXM-300VIE OR DALIGHT MODEL #430-6479-801 OR APPROVED EQUAL.
- VIDEO DETECTION SYSTEMS WILL BE EITHER ITERIS EDGE 2, AUTOSCOPE 2020 OR AUTOSCOPE 2020-V8 WHEN VIDEO DETECTION IS SPECIFIED ON THE TRAFFIC SIGNAL PLANS. ALL VIDEO DETECTION SYSTEMS WILL BE STAND ALONE SYSTEMS TO INCLUDE ALL NECESSARY EQUIPMENT TO PROGRAM THE VIDEO DETECTION SYSTEM. A PROGRAMMING "MOUSE", KEYPAD OR LAPTOP/PC COMPUTER (IF REQUIRED FOR PROGRAMMING THE VIDEO DETECTION SYSTEM) AND APPROPRIATE SOFTWARE WILL BE SUPPLIED WITH EACH VIDEO SYSTEM. PERSONAL COMPUTERS (PCs) MAY NOT BE SUBSTITUTED FOR LAPTOPS. A VIDEO MONITOR (BLACK AND WHITE OR COLOR) 9" TO 13" WILL BE SUPPLIED WITH EACH VIDEO DETECTION SYSTEM. EACH VIDEO CAMERA WILL HAVE POWER (3#16 CONDUCTORS OR PVC JACKETED) AND 8281 COAXIAL CABLE (SOLID CENTER CONDUCTOR) DIRECTLY FROM THE CABINET. CAMERAS WILL BE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS AND PER CLV TRAFFIC ENGINEER APPROVAL. "BNC" ARE THE ONLY ACCEPTABLE TERMINATION OF COAXIAL CABLES. EXTENSION BRACKETS (TYPE AB-0166-5-62 OR EQUIVALENT) WILL BE USED WHEN MOUNTING VIDEO CAMERAS ON MAST ARMS. A VIDEO FILTER (CX06-BNVC OR EQUIVALENT) WILL BE INSTALLED IN THE SIGNAL CABINET FOR EACH CAMERA VIDEO INPUT.
- LOOP DETECTORS SHALL BE PREFORMED LOOPS AS MANUFACTURED BY RENO A & E OR NEVER-FAIL LOOP SYSTEMS. TWO (2) CHANNEL RACK- MOUNTED DETECTOR AMPLIFIERS SHALL BE INSTALLED IN THE CONTROLLER CABINET WHICH ACCOMMODATE 24 SEPARATE CHANNELS. LOOP LEAD-IN CABLE SHALL BE 6-PAIR 18 AWG MULTIPLE CONDUCTOR CABLE AS SPECIFIED IN SECTION 623.02.04 OF THE CLV SPECIAL PROVISIONS. ALL WIRING HARNESSSES, RACK POSITIONS, AND LOOP LEAD-IN CABLE SHALL BE CLEARLY MARKED AS TO THE APPROPRIATE PHASE AND LETTER DESIGNATION TO WHICH IT BELONGS AS SHOWN ON THE TRAFFIC SIGNAL PLANS. ALL LOOPS SHALL BE INSTALLED IN THE ROADWAY PRIOR TO PLACEMENT OF THE FINAL PAVEMENT LIFT. 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.
- OPTICAL PREEMPTION UNITS WILL BE 3M (ENCODING CAPABLE), MODEL 754 PHASE SELECTOR INSTALLED IN A MODEL 760 CARD RACK; OPTICAL SENSORS WILL BE MODEL 722 AND WILL BE INTERFACED TO THE TRAFFIC SIGNAL CONTROLLER CABINET WITH M-138 CABLE.
- 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 CONTRACTORS EXPENSE TO THE SATISFACTION OF THE CITY.
- INTERCONNECT CABLE SHALL BE AS SHOWN IN THE WIRE SCHEDULE.
- 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 CONTACT KARL KELLEY, THE TRAFFIC SIGNAL SUPERVISOR, AT 702-229-4086 TO ARRANGE FOR DELIVERY TIMES AND LOCATIONS.
- THE CONTRACTOR SHALL MAINTAIN EXISTING SIGNALS THROUGH THE LIFE OF THE PROJECT PER SECTION 623.6.03.01N OF THE CLV SPECIAL PROVISIONS.

Kimley»Horn

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STATE OF NEVADA
PROFESSIONAL ENGINEER
No. 17819
EXP. 12/31/17

KHA PROJECT
61153.52
DATE
10/6/17
SCALE AS SHOWN
DESIGNED BY MS
DRAWN BY MS
CHECKED BY TA

TRAFFIC SIGNAL PLAN
SHEET 2 OF 2

COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI

17 OF 17 SHEETS
TS2

REVISIONS
No.
DATE
BY