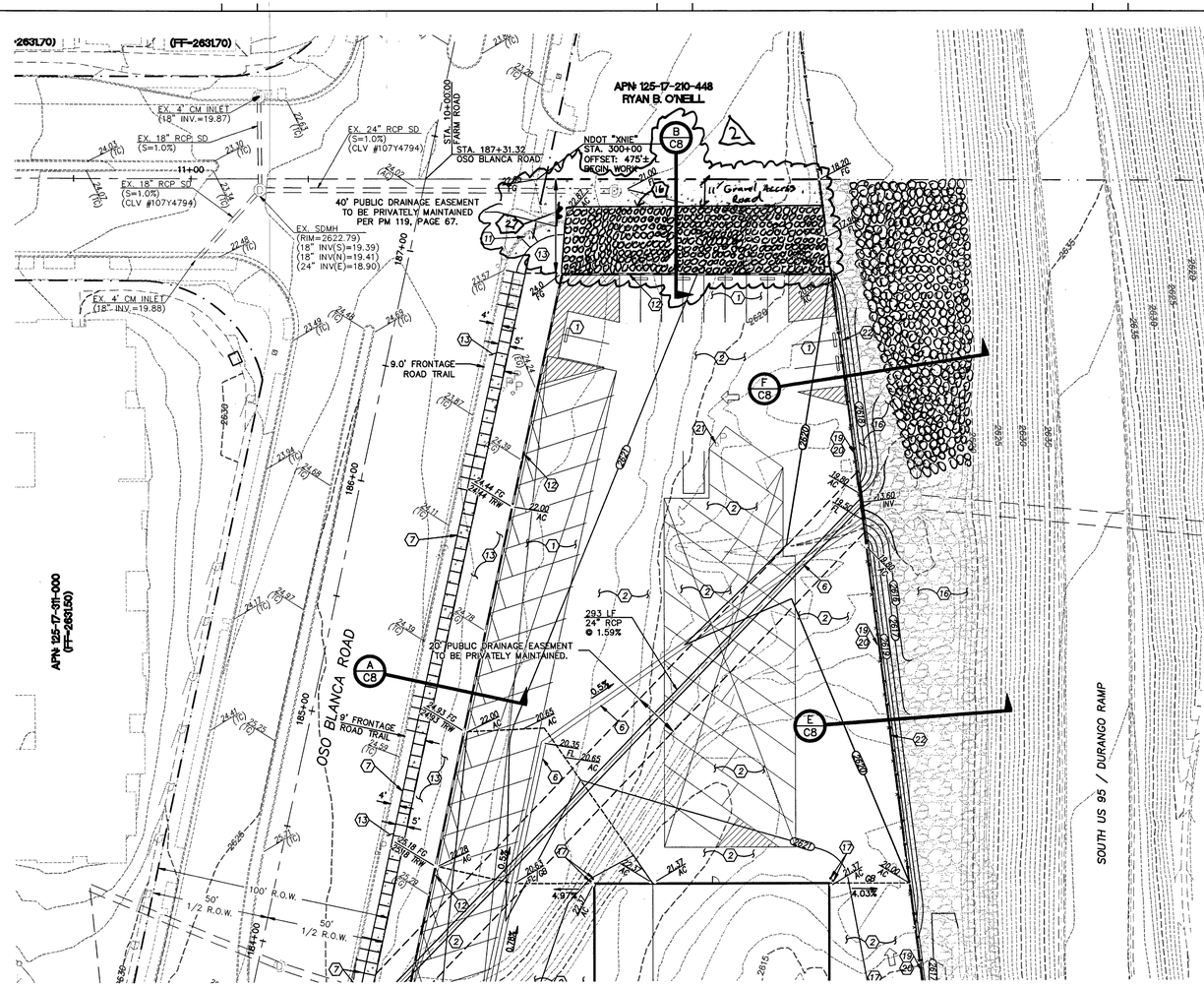
ABBREVIATIONS

(SEE CVR. SHT. FOR COMPLETE LIST)

AC	ASPHALTIC CONCRETE
ADJ	ADJUST
AGG	AGGREGATE
BC	BACK OF CURB
BCR	BEGINNING OF CURB RETURN
BEG	BEGIN
BSW	BACK OF SIDEWALK
BVC	BEGINNING OF VERTICAL CURVE
CATV	CABLE TV
CCAUSD	CLARK COUNTY AREA UNIFORM STANDARD DRAWING
CCRFCD	CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
CL	CENTERLINE
CLV	CITY OF LAS VEGAS
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COMM	COMMUNICATIONS
CONC	CONCRETE
COND	CONDUIT
CULV	CULVERT
DC	DEPRESSED CURB
DI	DROP INLET
DIP	DUCTILE IRON PIPE
DOM	DOMESTIC
ELEC	ELECTRIC
EAC	EDGE OF AC
EC	END OF CURVE
ECR	END OF CURB RETURN
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EVC	END OF VERTICAL CURVE
EX	EXISTING
FAST	FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FO	FIBER OPTICS
FS	FINISHED SURFACE
GB	GRADE BREAK
HDPE	HIGH DENSITY POLYETHYLENE
HDWL	HEADWALL
HGL	HYDRAULIC GRADE LINE
HP	HIGH POINT
INV	INVERT
IRR	IRRIGATION
LAT	LATERAL
LF	LINEAL FEET
LS	LANDSCAPE
LT	LEFT
LVVWD	LAS VEGAS VALLEY WATER DISTRICT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MTR	METER
PB	PULL BOX
PL	PROPERTY LINE
PP	POWER POLE
PROP	PROPOSED
PVC	POLY VINYL CHLORIDE PIPE
PVMT	PAVEMENT
RIM	TOP OF MANHOLE OR CLEANOUT
RT	RIGHT
ROW	RIGHT-OF-WAY
SS	SANITARY SEWER
SD	STORM DRAIN
SNWA	SOUTHERN NEVADA WATER AUTHORITY
STA	STATION
STLT	STREET LIGHT
SVZ	SIGHT VISIBILITY ZONE
SW	SIDEWALK
TEL	TELEPHONE
TC	TOP OF CURB
TF	TOP OF FOOTING
TW	TOP OF WALL
TYP	TYPICAL
UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
VG	VALLEY GUTTER
WL	WATER LINE

LEGEND

DESCRIPTION	EXISTING	PROPOSED
UTILITIES		
B.O. VALVE		
FIRE HYDRANTS		
CLEAN OUT		
GATE VALVE		
METER		
REDUCER		
CAP		
11.25° ELBOW		
22.5° ELBOW		
45° ELBOW		
90° ELBOW		
CROSS		
TEE		
MANHOLES		
ELECTRICAL	(E)	(E)
SANITARY SEWER	(S)	(S)
STORM DRAIN	(D)	(D)
TELEPHONE	(T)	(T)
STREET LIGHTS		
100W HPS STLT.		
150W HPS STLT.		
200W HPS STLT.		
250W HPS STLT.		
400W HPS STLT.		
GRADING		
SPOT ELEV.	(12.3±) TC	12.34 TC
SLOPE	(1.2%±)	1.23%
5' CONT.	(2005)	2005
1' CONT.	(2007)	2007
SITE		
SIGN		
"L" CURB		
"A" CURB		
EDGE OF PVMT.		
WALL		
LINE TYPES		
CL OR SECTION LINE		
PROPERTY LINE		
RIGHT OF WAY LINE		
EASEMENT LINE		
SAWCUT LINE		
FLOW LINE		
SHADES		
HEAVY AC PAVEMENT		
LIGHT AC PAVEMENT		
CONCRETE PAVEMENT		



MATCHLINE - SEE SHEET C5 FOR CONTINUATION

ENGINEER'S ESTIMATE OF QUANTITIES

NOTE: THIS QUANTITY ESTIMATE IS FOR BONDING PURPOSES ONLY. CONTRACTOR TO DETERMINE INDEPENDENT ESTIMATIONS.

DRAINAGE QUANTITIES (PUBLIC)	
24" RCP	293 LF
EXCAVATION AND EMBANKMENT	1104 CY

SURFACE QUANTITIES (PRIVATE)	
2" AC PAVEMENT	267 CY
3" AC PAVEMENT	810 CY
VALLEY GUTTER	1545 SF
"A" TYPE CURB & GUTTER	606 LF

SURFACE QUANTITIES (PUBLIC)	
5" AC PAVEMENT	5 CY
CROSS GUTTER	78 SF
CONCRETE SIDEWALK	2850 SF

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 ORDINANCE 14.18 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 NVR 100000, SECTION III.A.12.

5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER 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.

GRADING NOTES:

1. SLOPES 4:1 OR STEEPER AND FINE-GRAINED MATERIALS THAT HAVE BEEN DISTURBED (SANDY AND SILTY MATERIALS) SHOULD BE PROTECTED WITH BURLAP OR OTHER EROSION CONTROL FABRIC/MATERIAL, UNLESS OTHERWISE SPECIFIED BY LANDSCAPE DRAWINGS AND SPECIFICATIONS OR THE SOILS REPORT.

2. CONTRACTOR SHALL DETERMINE HIS OWN FOOTING OR BASEMENT EXCAVATION QUANTITIES, EVEN THOUGH SHOWN ON ROUGH GRADING PLANS. ADDITIONALLY, STRUCTURE BACKFILL COSTS SHOULD BE INCLUDED IN THE COST OF THE STRUCTURE, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

3. CONTRACTOR SHALL NOTIFY CIVILWORKS INC WITHIN 24 HOURS OF OMISSIONS AND ERRORS DISCOVERED ON PLANS. CIVILWORKS INC WILL NOT BE RESPONSIBLE FOR ANY "CORRECTIVE" WORK DONE BY OTHERS.

GRADING PLAN CERTIFICATION

JODI E. JORJORIAN PE #13816 DATE: 11/25/15

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT CITY OF LAS VEGAS FOR THIS PROJECT. (DS4261)

FLOOD ZONE NOTE

A REVIEW OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY-PANEL NUMBER 32003C1765F DATED NOVEMBER 16, 2011 INDICATES THE SITE IS LOCATED WITHIN A FEMA ZONE "X". A ZONE "X" IS DESCRIBED AS FEMA AREAS OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

GEOTECHNICAL NOTES:

A GEOLOGIST OR GEOTECHNICAL ENGINEER SHALL BE ON SITE DURING EXCAVATION AND MASS GRADING OPERATIONS TO EXAMINE THE SOIL CHARACTERISTICS AND GEOLOGICAL CONDITIONS ENCOUNTERED, AND TO PROVIDE PROFESSIONAL ADVICE TO THE OWNER IN THE EVENT THAT UNANTICIPATED SOIL PROBLEMS ARISE AND/OR SUBSURFACE SITE CONDITIONS ARE FOUND TO BE SIGNIFICANTLY DIFFERENT THAN DEFINED BY PRE-DESIGN EXPLORATION AND TESTING.

CONTRACTOR TO ENSURE POSITIVE DRAINAGE. NO PONDING ALLOWED. CONTRACTOR TO FOLLOW RECOMMENDATIONS AS OUTLINE IN THE PROJECT GEOTECHNICAL REPORT, INCLUDING BUT NOT LIMITED TO EXCAVATION, GRADING AND COMPACTION. REFER TO THE REPORT PREPARED BY:

GEOTEK
DATE: JULY 2, 2014
PROJECT #11883-LV6

NOTE

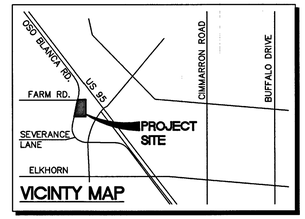
NO WORK IS ALLOWED WITHIN NDOT R.O.W. WITHOUT AN NDOT PERMIT.

N

GRAPHIC SCALE

30 0 15 30 60

(IN FEET)
1 inch = 30 ft.



VICINITY MAP

BASIS OF BEARING

SOUTH 00°08'57" WEST, BEING THE WEST LINE OF THE GOVERNMENT LOT 11, LYING WITHIN THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 17, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., AS SHOWN IN BOOK 140, PAGE 12 OF PLATS IN THE CLARK COUNTY, NEVADA, RECORDER'S OFFICE.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK # SLV90 17S6

A RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF OSO BLANCA ROAD AND DURANGO DRIVE.

NAVD 88 ELEVATION = 798.4331 METERS / 2619.53 FEET
NORTH AMERICAN DATUM OF 1988

CONSTRUCTION NOTES:

- ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS (C.C.A.A.U.S.D.)" LATEST EDITION AND/OR REGULATING ENTITY HAVING JURISDICTION.

1. CONSTRUCT 2" AC PAVEMENT OVER 4" TYPE II AGGREGATE BASE.
2. CONSTRUCT 3" AC PAVEMENT OVER 6" TYPE II AGGREGATE BASE.
3. CONSTRUCT 'A' TYPE CURB PER DETAIL ON SHEET C8.
4. CONSTRUCT 'L' TYPE CURB PER CCAUSD #216.
5. CONSTRUCT 60" TYPE III MANHOLE WITH BOLTED DOWN GRATE MANHOLE COVER PER CCAUSD #408
6. CONSTRUCT 2' CONCRETE VALLEY GUTTER PER DETAIL ON SHEET C8.
7. CONSTRUCT CONCRETE SIDEWALK PER CCAUSD #234.
8. CONSTRUCT U-GUTTER PER DETAIL ON SHEET C8.
9. ~~CONSTRUCT 6" CONCRETE OVER 6" TYPE II AGGREGATE BASE WITH #4 REBAR @ 24" O.C. EACH WAY.~~ 2
10. ADJUST TO GRADE
11. CONSTRUCT CONCRETE SIDEWALK RAMP PER CCAUSD #235, CASE 1.
12. RETAINING WALL. SEE STRUCTURAL PLANS.
13. LANDSCAPE AREA. SEE LANDSCAPE PLANS.
14. REMOVE AND REPLACE CROSS GUTTER PER CCAUSD #228
15. TRASH ENCLOSURE. SEE ARCHITECT'S PLANS.
16. CONSTRUCT RIPRAP PER NDOT STD. DWG. R-3.1.5. SEE DETAILS FOR SIZE.
17. CONSTRUCT BOLLARDS. SEE DETAIL ON SHEET C8.
18. INSTALL 4' MAX RETAINING WALL. SEE SECTION C ON SHEET C8.
19. CONSTRUCT 12"x6" RIBBON CURB. SEE DETAIL ON SHEET C8.
20. INSTALL WROUGHT IRON FENCE.
21. REMOVE EXISTING POLE/BOLLARD.
22. REMOVE EXISTING FENCE TO PROPERTY LINE.
23. TRANSITION CURB FROM 6" TO 0" FACE CURB.
24. 0" CURB
25. REMOVE AND REPLACE EXISTING MEDIAN.
26. SAWCUT, BACKFILL AND PAVEMENT PER CCAUSD #500.5 AND #503.
27. INSTALL TYPE III-A BARRICADE PER CCAUSD #601. DETAIL SHEET C8 2

THIS DRAWING IS AN INSTRUMENT OF SERVICE BETWEEN THE ARCHITECT AND HIS CLIENT, BUT REMAINS THE PROPERTY OF THE ARCHITECT.
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architecture/engineering/site planning/interior design
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professional corp / certified n.c.a.r.b.

CONSULTANTS:
CivilWorks Inc
Engineering with creative solutions delivered in a user friendly mode
4045 W. Patrick Lane, Las Vegas, NV. 89118
Office: (702) 304-7055 Fax: (702) 304-1425

ELEC: N/A
MECH: N/A

STORAGEONE @ 7422 OSO BLANCA ROAD

NEW COMMERCIAL CONSTRUCTION

FOR: WESTAR/STORAGEONE

LAS VEGAS, NEVADA

PROJ.NO.	14981320.00
PRIN.ARCH.	G.G.WILSON,AIA
PROJ.ARCH.	-
JOB CAPT.	MML
DESIGNER	TND
ENGINEER	PDW
PH-2/3	-
PH-4	-
PH-5	-

REVISIONS

CLV SEP 9-16
2 ADDED TYPE III-A BARRICADE
ADDED 11' GRAVEL ACCESS ROAD
DELETE NOTE 9. ADD NOTE 16 IN LIEU PLACE OF NOTE 9

PRINTS REQUIRE ARCHITECT'S SEAL & SIGN. FOR PROOF OF VALIDITY

REGISTERED PROFESSIONAL ENGINEER - STATE OF NEVADA
JODI E. JORJORIAN
Exp: 6/30/17
CIVIL
No. 13816
11/15/15

GRADING PLAN 1

107V6538

SHT.NO. SH#57262 C4
SHEET 4 OF 10