

IMPROVEMENT PLANS FOR

UNLV/EPA PARKING LOT @HARMON AVE. APN: 162-22-601-001

INDEX OF DRAWINGS

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7. C6.01	SIGNAGE AND STRIPING PLAN
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OWNER/DEVELOPER

UNIVERSITY BOARD OF REGENTS
CONTACT: TIM LOCKETT
DIRECTOR OF CONSTRUCTION
UNIVERSITY OF NEVADA LAS VEGAS
4505 S. MARYLAND PARKWAY
PO BOX 451027
LAS VEGAS, NV 89154-1027

BASIS OF BEARING

NORTH 00°05'46" EAST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 22, TOWNSHIP 22 SOUTH, RANGE 61 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN IN FILE 65 OF SURVEYS, AT PAGE 68, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL V.2003 POINT "6C11 23NW6", BEING A RIVET AND SQUARE ALUMINUM PLATE IN THE TOP OF CURB, NORTHEAST CORNER OF MARYLAND PARKWAY AND ROCHELLE AVENUE NEAR THE PC OF MARYLAND PARKWAY.

ELEVATION: 2009.29 (US SURVEY FEET)
612.434 (METERS)

CLARK COUNTY VERTICAL CONTROL V.2003 BASED ON
NORTH AMERICAN DATUM OF 1988 (NAD83).

APPROVALS

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

NV ENERGY DATE

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

CENTRAL TELEPHONE COMPANY DBA CENTURY LINK DATE

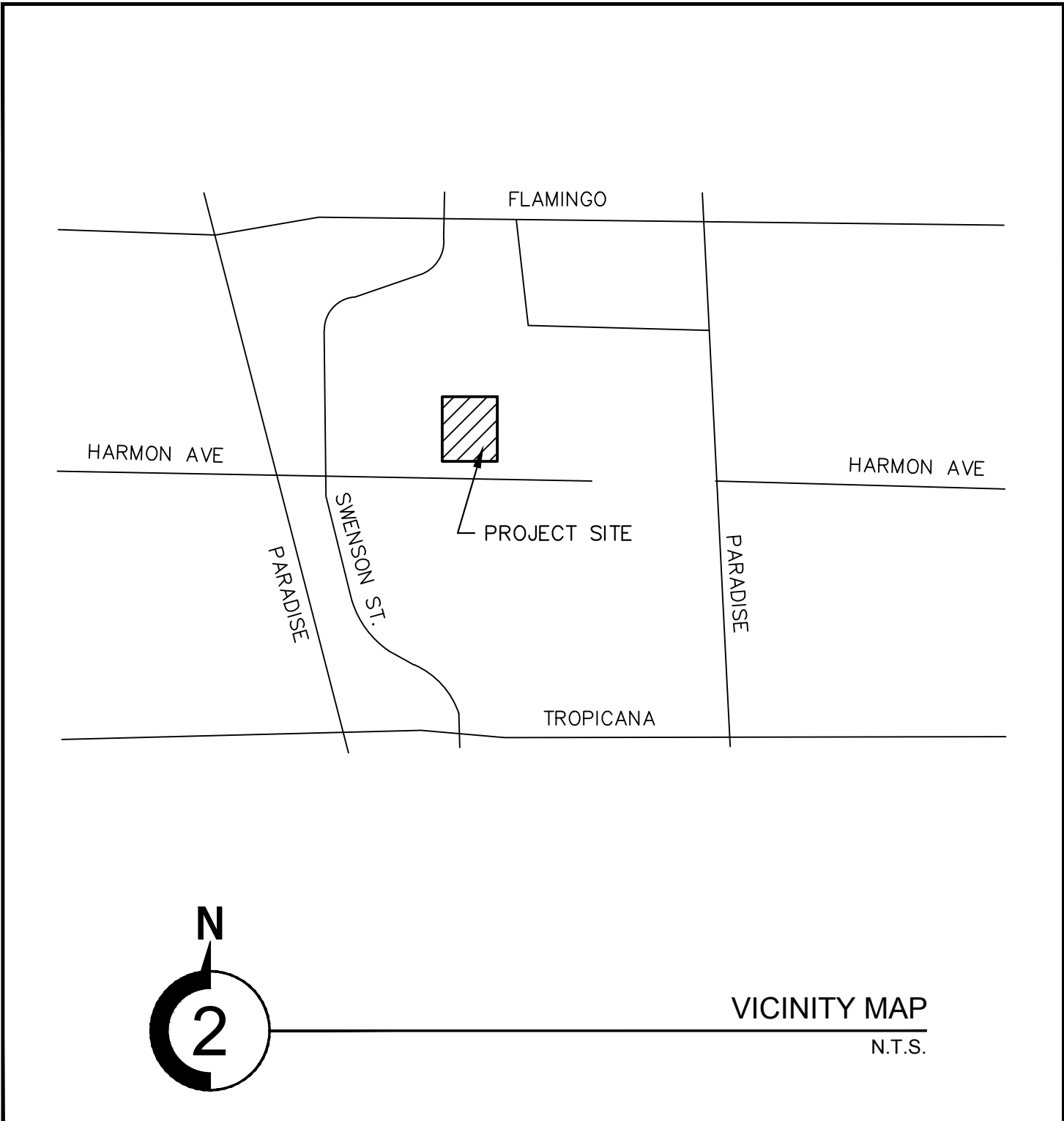
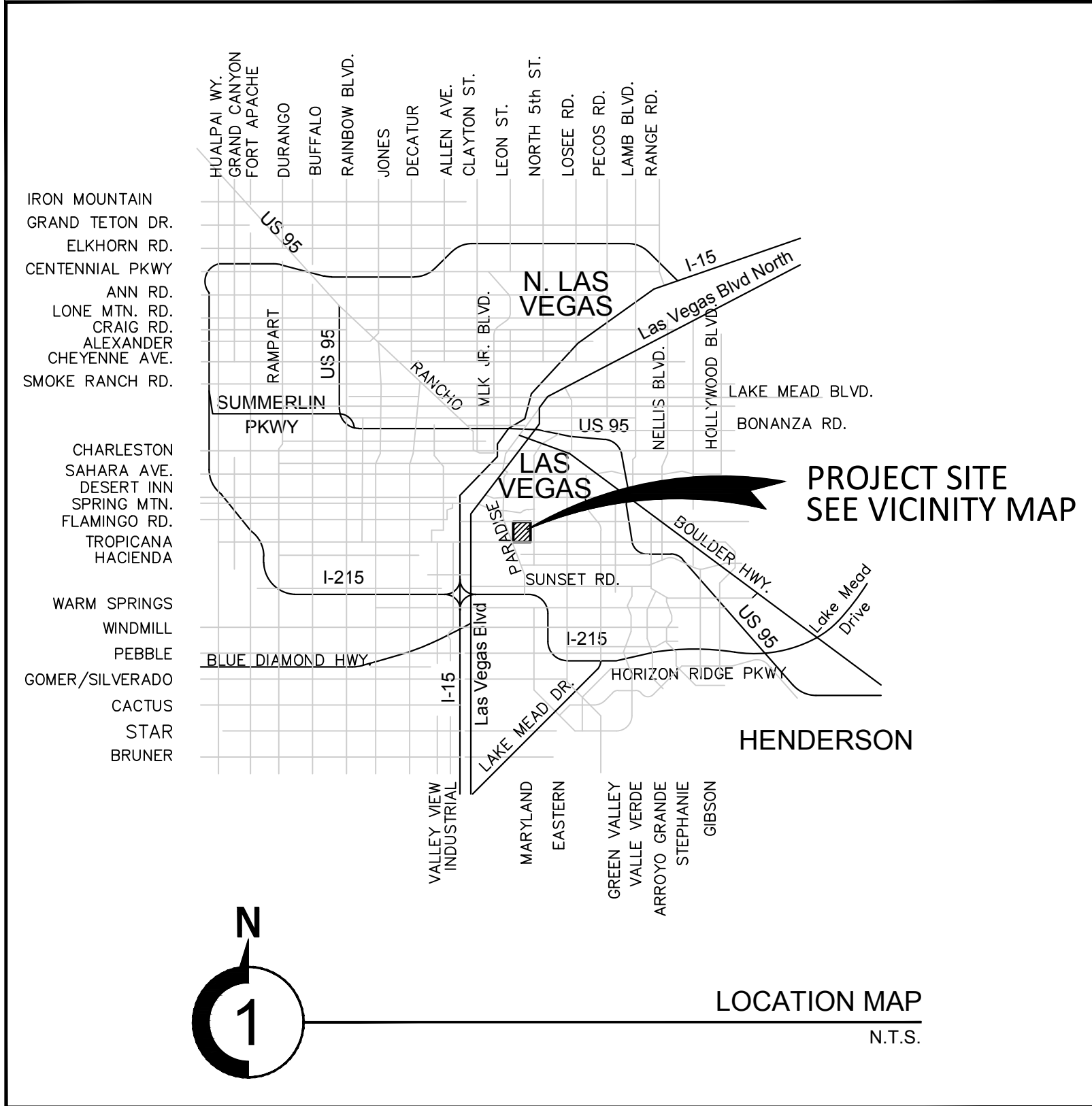
SOUTHWEST GAS CORPORATION DATE

COX COMMUNICATIONS LAS VEGAS, INC. DATE

COUNTY OF CLARK FIRE DEPARTMENT APPROVAL
BY _____ DATE _____
APPROVAL OF THESE PLANS 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.
FIRE FLOW _____ GPM AT 20 PSI RESIDUAL

"THE CONTRACTOR WILL CONTACT THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION (NDEP) TO OBTAIN A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT PRIOR TO CONSTRUCTION. ALL CONSTRUCTION PROJECTS ONE ACRE OR LARGER MUST APPLY FOR A PERMIT THROUGH NDEP. ALL QUESTIONS REGARDING THE NPDES PERMIT REQUIREMENTS SHOULD BE DIRECTED TO THE NDEP AT (775) 687-9429."

FLOOD ZONE NOTE:
AS SHOWN BY FLOOD INSURANCE RATE MAP NO. 32003C2557F, DATED NOVEMBER 16, 2011, AN UNSHADED ZONE X₁ AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.



ALTERNATE BID

UNLV/EPA PARKING LOT
@HARMON AVE.

COVER SHEET
HARMON AVE. AND SWENSON ST.
CLARK COUNTY, NV.

COLLINS ENGINEERS
3130 S. DURANGO DR., SUITE 404
LAS VEGAS, NV 89117
PHONE: (702) 248-8000
FAX: (702) 248-8070
www.collinsengr.com



NO.	DATE	DESIGN BY	DESCRIPTION
CEI PROJECT:	9937		
DESIGN BY:	TQT		
DRAWN BY:	TQT/SS		
CHECKED BY:	TQT		
DATE:	12/21/2016		
SCALE:	N.T.S.		
SHEET NUMBER	C1.01		
SHEET 01 OF 08			

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND INGRESS AND EGRESS TO SAID CONSTRUCTION. EXTENT OF TRANSITIONS TO BE DETERMINED BY THE COUNTY ENGINEER.

3. 48 HOURS PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT:
- | | |
|---------------------------------|----------|
| LAS VEGAS VALLEY WATER DISTRICT | 870-2011 |
| NV ENERGY | 367-5001 |
| CENTURY LINK | 244-7171 |
| SOUTHWEST GAS CORPORATION | 651-2111 |
| COX COMMUNICATIONS (CABLE CO.) | 384-8084 |

5. ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MUTCD EXCEPT AS OTHERWISE PROVIDED IN THE CONTRACT SPECIFICATIONS OR REQUIRED BY THE ENGINEER.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF ALL EXISTING SANITARY, WATER AND STORM SEWER MANHOLES TO THE FINAL FINISH GRADES IN ACCORDANCE WITH SECTION 609 OF THE STANDARD SPECIFICATIONS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF ALL TELEPHONE COMPANY MANHOLES TO THE FINAL FINISH GRADES AS SHOWN ON THE CONTRACT DRAWINGS.

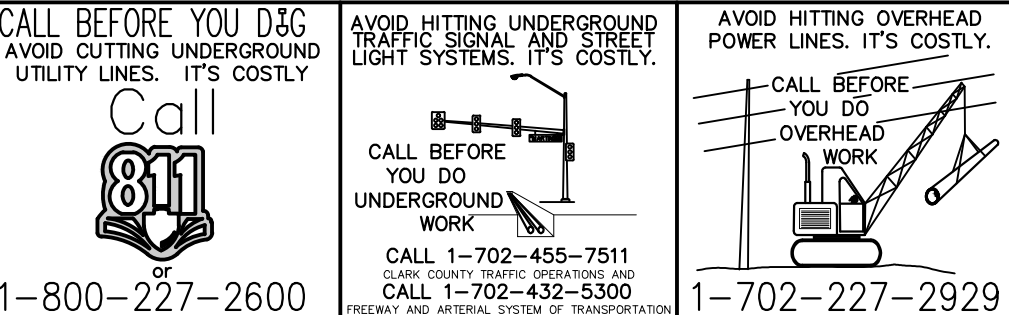
10. ALL CONCRETE FOR THIS PROJECT SHALL USE TYPE V CEMENT.

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

12. CONTRACTOR SHALL NOTIFY THE ENGINEER WITHIN 24 HOURS OF OMISSIONS AND ERRORS DISCOVERED ON PLANS. THE ENGINEERING WILL REVISE AND RE-ISSUE DRAWINGS AS SOON AS POSSIBLE. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY "CORRECTIVE" WORK DONE BY OTHERS.

NONE

COLLINS ENGINEERS INC., ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY.



1. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HEREUNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.

3. ALL CONSTRUCTION SIGNING, BARRICADING AND PAVEMENT MARKINGS SHALL CONFORM TO THE NEVADA WORK ZONE TRAFFIC CONTROL HANDBOOK - 1986 AND TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.

4. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS.

5. THE DEVELOPER SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CLARK COUNTY AREA STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS.

6. IF A PROPOSED STREET LIGHT STANDARD IS FIELD LOCATED TO WITHIN FIVE (5) FEET OF AN SIGN SHOWN HEREON TO BE MOUNTED ON A SIGN POST, CHANGE SIGN MOUNTING TO ONE OF THE STREETLIGHT STANDARD.

7. PRIOR TO CONSTRUCTION, THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE CURRENT PLANNING DIVISION OF THE DEPARTMENT OF COMPREHENSIVE PLANNING.

8. ALL TRAFFIC SIGNAL POLE ASSEMBLIES, STEEL PEDESTAL FOR CABINETS AND STREET LIGHT POLES SHALL BE GALVANIZED PER ASTM A123.

NORTH 00°05'46" EAST, BEING THE BEARING OF THE EAST LINE OF THE
SOUTHWEST QUARTER (SW 1/4) OF SECTION 22, TOWNSHIP 22 SOUTH, RANGE
61 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN IN FILE 65 OF
SURVEYS AT PAGE 69 OFFICIAL RECORDS OF CLARK COUNTY NEVADA

CLARK COUNTY VERTICAL CONTROL V.2003 POINT "6C11 23NWW6", BEING A RIVET AND SQUARE ALUMINUM PLATE IN THE TOP OF CURB, NORTHEAST CORNER OF MARYLAND PARKWAY AND ROCHELLE AVENUE NEAR THE PC OF MARYLAND PARKWAY.

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612.434 (METERS)

CLARK COUNTY VERTICAL CONTROL V.2003 BASED ON
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

AS SHOWN BY FLOOD INSURANCE RATE MAP NO. 32003C2557F, DATED NOVEMBER 16, 2011,
AN UNSHADED ZONE X, AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE
FLOODPLAIN.

AC	ASPHALTIC CONCRETE	N/A	NOT APPLICABLE
ACP	ASBESTOS CEMENT PIPE	NAP	NOT A PART
ACS	AMERICAN NATIONAL STANDARDS INSTITUTE	NAS	NEVADA ADOPT OF TRANSPORTATION
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	NFPA	NATIONAL FIRE PROTECTIONS ASSOC
AVE	AVENUE	NIC	NOT IN CONTRACT
AWWA	AMERICAN WATER WORKS ASSOCIATION	NTS	NOT TO SCALE
BC	BACK OF CURB	OC	ON CENTER
BCR	BACK OF CURB RADIUS	PC	PULL BOX
BNRY	BOUNDARY LINE	PC	POINT OF CURVE
BLDC	BUILDING	PC	POINT OF COMPOUND CURVE
BLVD	BULEVARD	PI	POINT OF INTERSECTION
BO	BLOW OFF ASSEMBLY	PKWY	PARKWAY
BP	BOTTOM OF PIPE	PL	PROPERTY LINE
BOT	BOTTOM	PP	POWER POLE
BVC	BEGINNING OF VERTICAL CURVE	PT	POINT OF TANGENCY
CA	BACK WATER VALVE	PT	POINT
C&G	CLARK COUNTY AREA	PSI	POUNDS PER SQUARE INCH
C&G	UNIFORM STANDARD DRAWING	PRC	POINT OF REVERSE CURVE
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT	PR	PROPOSED
C&G	CURB AND GUTTER	PRV	PRESSURIZING VALVE
CATV	CABLE TELEVISION	PRVT	PRIVATE
CP	CAST IRON PIPE	PVC	POLYVINYL CHLORIDE PIPE
CL	CENTERLINE	PVI	POINT OF VERTICAL INTERSECTION
CLR	PLAIN OUT	PVM	PAVEMENT
CL	CLEAR	Q	RATE OF FLOW
CMU	CONCRETE MASONRY UNIT	QTY	QUANTITY
CMP	CORRUGATED METAL PIPE	R	RADIUS
CONC	CONCRETE	RC	REINFORCED CONCRETE
COND	CONDUIT	RCB	REINFORCED CONCRETE BOX
CU FT	CUBIC FOOT	RCF	REINFORCED CONCRETE PIPE
CU YD	CUBIC YARD	RPPA	REDUCED PRESSURE PRINCIPLE
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY	RR	RAILROAD
DDVA	DOUBLE CHECK VALVE ASSEMBLY	R/W	RIGHT OF WAY
DEM	DEMOLITION	SD	STORM DRAIN
DIP	DROP INLET	SO FT	SQUARE FOOT (FEET)
DI	DUCTILE IRON PIPE	SQ YD	SQUARE YARD
DWG	DRAWING	SS	SANITARY SEWER
ECR	END OF CURVE	ST	STREET
EGL	END OF CURB RETURN	STA	STATION
EGL	ENERGY GRADE LINE	STLT	STREET LIGHT
EVC	END OF VERTICAL CURVE	SW	SIDEWALK/SOUTHWEST
EX	EXISTING	T	TELEPHONE
FDC	FIRE DEPARTMENT CONNECTION	TOP	TOP OF CURB
FG	FINISHED FLOOR	TEMP	TEMPORARY
FG	FINISHED GRADE	TEL	TELEPHONE
FI	FIRE HYDRANT	TMH	TOP OF MANHOLE
FL	FLOWLINE	TF	TOP OF FOOTING
FMCT	FLOW METER COMPOUND TORRENT	TG	TOP OF GRATE
FC	FACE OF CURB	TOP/TP	TOP OF PIPE
FT	FOOT OR FEET	TS	TOP OF SIGNAL
G	GAS	(TYP)	TYPICAL
GB	GRADE BREAK	UDACS	UNIFORM DESIGN AND CONSTRUCTION
GV	GATE VALVE		STANDARDS FOR POTABLE WATER
HGL	HYDRAULIC GRADE LINE		SYSTEMS
HP	HIGH POINT	UG	UNDERGROUND
IN	INVERT	UTL	UTILITIES
LF	LINEAR FOOT	VC	VERTICAL CURVE
LMR	LETTER OF MAP REVISION	VCP	VITRIFIED CLAY PIPE
LS	LOW POINT	VCV	VALLEY CURVE
LVWD	LAS VEGAS VALLEY WATER DISTRICT	WIR	WATER
ME	MATCH EXISTING	WM	WATER METER
MH	MANHOLE	YRD	YARD
MNL	MINIMUM		

ITEM DESCRIPTION	QUANTITY	UNIT
1. CURB OPENING	2	EA
2. RIP RAP 150x4", T=8"	60	SF
3. 2.5" AC PAVING OVER 6" TYPE II OVER		
4" TYPE I AGGREGATE BASE	94,957	SF
4" TYPE II GUTTER "L" TYPE	750	LF
5. CURB AND GUTTER "A" TYPE	1,479	EA
6. 0" MOW CURB	249	EA
7. ADA RAMP	11	LF
8. SIDEWALK UNDERDRAIN	2	EA
9. CONCRETE SIDEWALK	7,479	SF
10. CONCRETE VALLEY GUTTER	1,688	SF
11. MODIFIED MDOT TYPE 2A DROP INLET	1	EA
12. 4" PVC SD	4	LF
13. TYPE II CONCRETE HEADWALL	1	EA

ALTERNATE BID

**COLLINS
ENGINEERS^{PC}**
313130 S. DURANGO DR., SUITE 404
LAS VEGAS, NV 89117
PHONE: (702) 248-8000
FAX: (702) 248-8070
www.collinsengr.com



**UNLV/EPA PARKING LOT
@HARMON AVE.**

NOTES SHEET

HARMON AVE. AND SWENSON ST.
CLARK COUNTY, NV.

NO.	DATE	DESIGN BY	DESCRIPTION

CEI PROJECT: 9937

DESIGN BY: TQT

DRAWN BY: TQT/SS

CHECKED BY: TQT

DATE: _____

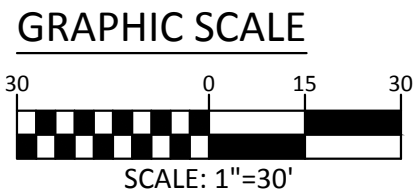
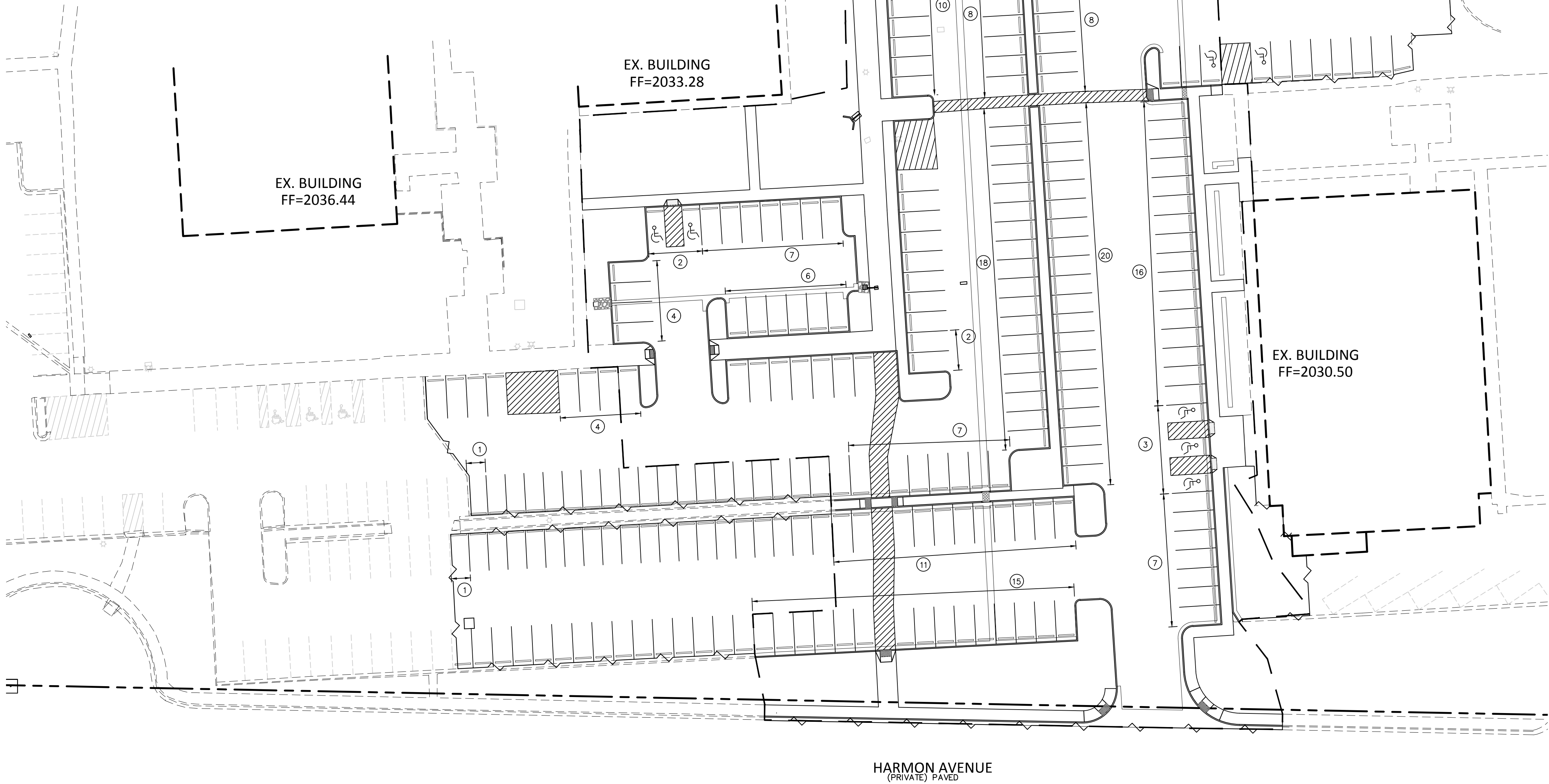
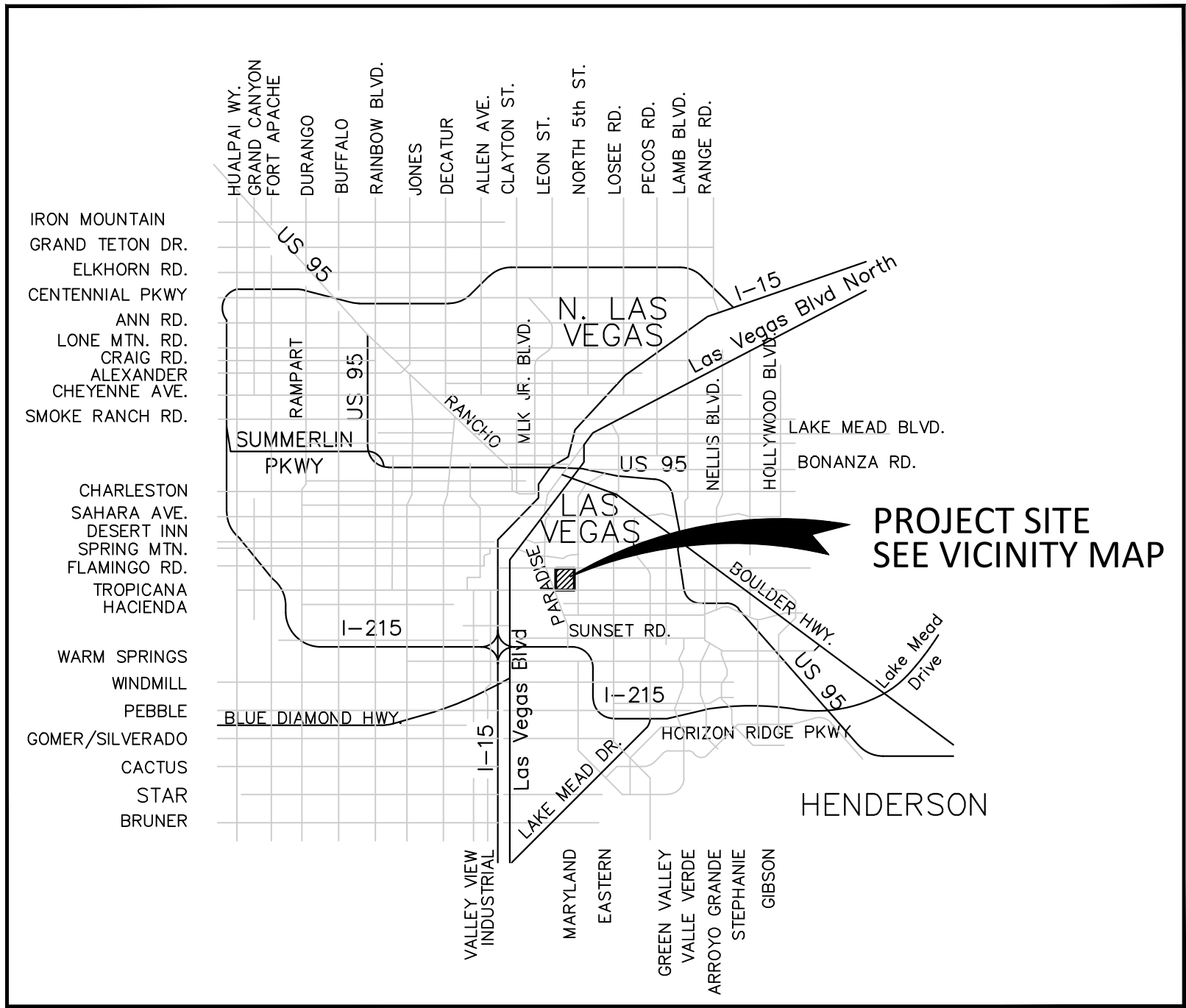
12/21/2016

SCALE:

SHEET NUMBER

C1.02

SHEET 02 OF 08



BASIS OF BEARING

NORTH 00°05'46" EAST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 22, TOWNSHIP 22 SOUTH, RANGE 61 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN IN FILE 65 OF SURVEYS, AT PAGE 69, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

BENCHMARK

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FAX: (702) 248-8070
www.collinsengr.com



UNLVEPA PARKING LOT
@HARMON AVE.

SITE PLAN

HARMON AVE. AND SWENSON ST.
CLARK COUNTY, NV.

ALTERNATE BID

PROPOSED PARKING LEGEND

(X) NUMBER OF NEW PARKING ADDED

PARKING ANALYSIS (EXISTING)

TOTAL PARKING	290
TOTAL HANDICAP PARKING	5

PARKING ANALYSIS (PROPOSED)

EX. PARKING REMOVED	70
PROPOSED ADDITIONAL STANDARD PARKING	147
PROPOSED ADDITIONAL HANDICAP PARKING	5

PARKING ANALYSIS (TOTAL)

TOTAL STANDARD PARKING	367
TOTAL HANDICAP PARKING	10
TOTAL PARKING	377

CALL BEFORE YOU DIG
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.

CALL BEFORE YOU DO
UNDERGROUND
WORK

CALL BEFORE YOU DO
OVERHEAD
WORK

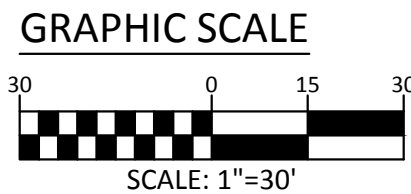
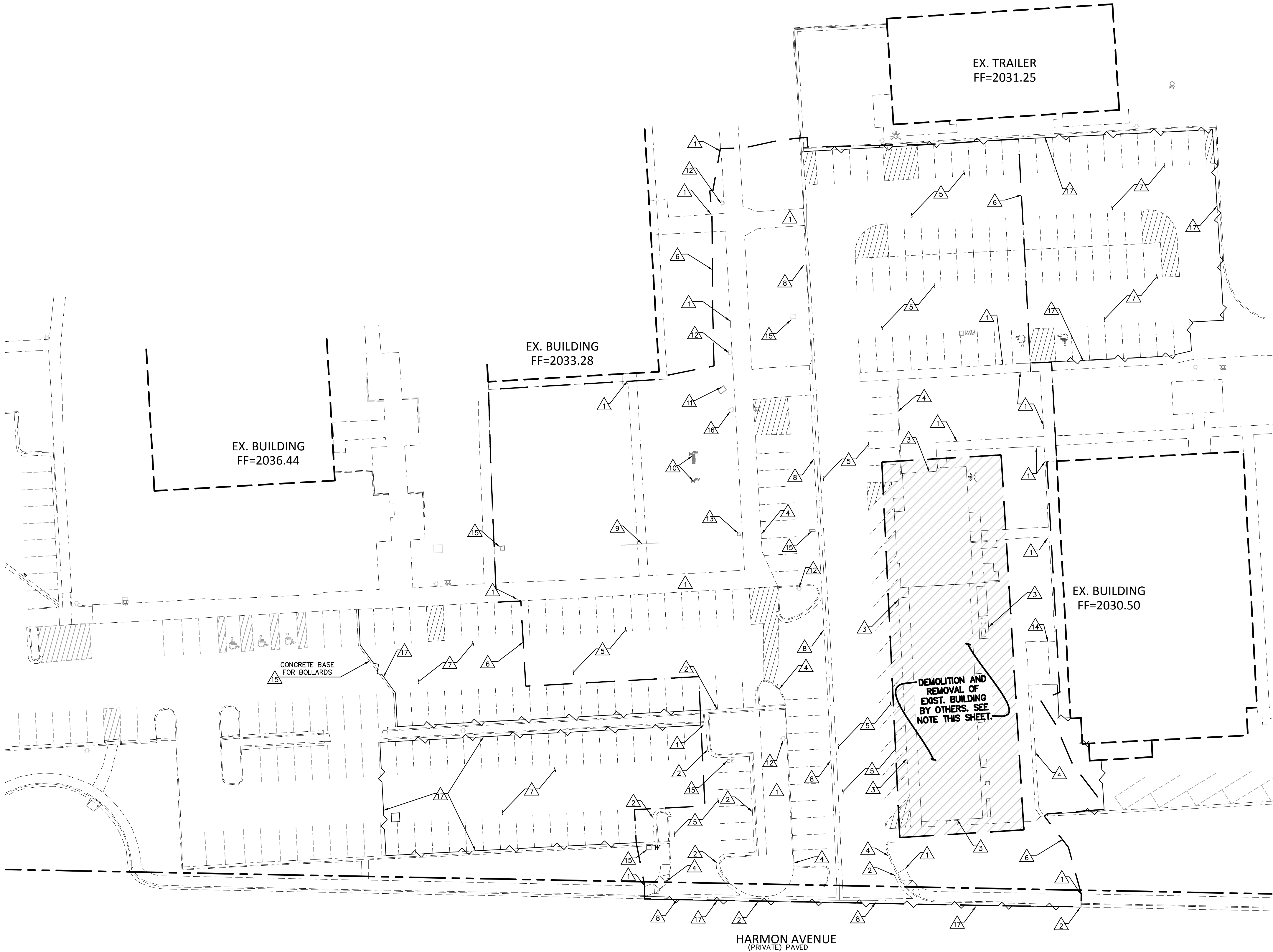
CALL 1-702-455-7511
CLARK COUNTY PUBLIC UTILITIES AND
CALL 1-702-432-5300
FREIGHT AND MATERIAL SYSTEMS OF TRANSPORTATION

1-702-227-2929

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LEGEND

EXISTING (0.00) XXX	PROPOSED 0.00 XXX	ELEVATION TAG
EXISTING XXX	PROPOSED XXX	DRAIN INLET
EXISTING XXX	PROPOSED XXX	RETAINING WALL
EXISTING XXX	PROPOSED XXX	SCREEN WALL
EXISTING XXX	PROPOSED XXX	UTILITY POLE
EXISTING XXX	PROPOSED XXX	STREET LIGHT
EXISTING ---	PROPOSED ---	POWER LINE/POLE
EXISTING ---	PROPOSED ---	TELEPHONE LINE
EXISTING ---	PROPOSED ---	WATER LINE
EXISTING ---	PROPOSED ---	SANITARY SEWER LINE
EXISTING ---	PROPOSED ---	STORM SEWER LINE
EXISTING ---	PROPOSED ---	GAS LINE
EXISTING ---	PROPOSED ---	STORM MANHOLE
EXISTING ---	PROPOSED ---	FIRE HYDRANT
EXISTING ---	PROPOSED ---	FIRE DEPARTMENT CONNECTION
EXISTING ---	PROPOSED ---	WATER VALVE
EXISTING ---	PROPOSED ---	REDUCER
EXISTING ---	PROPOSED ---	SEWER MANHOLE
EXISTING ---	PROPOSED ---	CLEANOUT
EXISTING ---	PROPOSED ---	GAS VALVE
EXISTING ---	PROPOSED ---	PL-RIGHT-OF-WAY
EXISTING ---	PROPOSED ---	PL-ADJACENT CENTERLINE
EXISTING ---	PROPOSED ---	EASEMENT LINE
EXISTING ---	PROPOSED ---	FLOW LINE
EXISTING ---	PROPOSED ---	SIGN W/POLE
EXISTING ---	PROPOSED ---	SAWCUT LINE
EXISTING ---	PROPOSED ---	AREA LIGHT
EXISTING ---	PROPOSED ---	WATER METER
EXISTING ---	PROPOSED ---	AC PAVEMENT
EXISTING ---	PROPOSED ---	6" TYPE "A" CURB
EXISTING ---	PROPOSED ---	24" TYPE "L" CURB & GUTTER
EXISTING ---	PROPOSED ---	30" ROLL CURB
EXISTING ---	PROPOSED ---	BACK WATER VALVE



BASIS OF BEARING

NORTH 00°05'46" EAST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 22, TOWNSHIP 22 SOUTH, RANGE 61 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN IN FILE 65 OF SURVEYS, AT PAGE 69, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

BENCHMARK

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612.434 (METERS)

CLARK COUNTY VERTICAL CONTROL V.2003 BASED ON
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CONSTRUCTION / REMOVAL NOTES

NO.	ITEM	USDTCA: UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA.
1	SAWCUT (WHERE APPLICABLE) AND REMOVE EXISTING CONCRETE WALK	
2	SAWCUT (WHERE APPLICABLE) AND REMOVE EXISTING CURB AND GUTTER	
3	DEMOLISH AND REMOVE EXISTING BUILDING AND ALL ASSOCIATED STRUCTURES, UTILITIES, PIPING, FLATWORK, ETC. UTILITIES WILL BE STUBBED & CAPPED UNDER SUPERVISION AND PER STANDARD OF UTILITY PROVIDER. SEE NOTE THIS SHEET.	
4	SAWCUT AND REMOVE EXISTING CURB	
5	SAWCUT AND REMOVE EXISTING AC PAVT FULL DEPTH	
6	DAYLIGHT LINE/MATCH EXISTING GRADE	
7	SAWCUT AND TOP MILL EXISTING AC PAVEMENT, FULL DEPTH, EXISTING SUBBASE TO REMAIN.	
8	REMOVE EXISTING VALLEY GUTTER	
9	REMOVE EXISTING SD PIPE.	
10	REMOVE AND RELOCATE EXIST. IRRIGATION VALVES AND METERS	
11	REMOVE EXISTING HEADWALL AND PROTECT SD PIPE IN PLACE	
12	REMOVE EXIST. LIGHT POLE AND RELOCATE PER TRAFFIC & SIGNAGE SHEET, C.601.	
13	REMOVE EXISTING DROP INLET AND PROTECT SD PIPE IN PLACE	
14	SAWCUT AND REMOVE EXISTING CONCRETE PATIO	
15	PROTECT IN PLACE	
16	REMOVE AND RELOCATE	
17	SAWCUT EX. AC PER PLAN	

DEMOLITION LEGEND



BUILDING DEMOLITION AREA. PLAN AND SPECIFICATIONS BY OTHERS.

DEMOLITION NOTE

BUILDING DEMOLITION AND ALL ASSOCIATED STRUCTURES, UTILITIES, FLATWORK, AND PIPING WILL BE PROVIDED BY OTHERS. THE CIVIL ENGINEER IS NOT RESPONSIBLE FOR ANY DEMOLITION SHOWN IN THE BUILDING DEMOLITION AREA.

EXISTING UTILITY NOTES:

ALL EXISTING UTILITIES WILL BE REMOVED AND/OR RELOCATED BY OTHERS IN ACCORDANCE TO UTILITY PROVIDERS STANDARDS AND DIRECTION. THE CIVIL ENGINEER IS NOT RESPONSIBLE FOR ANY UTILITY CONSTRUCTION OR RELOCATION.

CALL BEFORE YOU DIG
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

Call 811
1-800-227-2600

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL AND STREET LIGHT SYSTEMS. IT'S COSTLY.

CALL BEFORE YOU DO UNDERGROUND WORK
CALL 1-702-455-7511
CLARK COUNTY PUBLIC UTILITIES AND CALL 1-702-432-5300
TRAFFIC AND STREET LIGHT SYSTEMS

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

CALL BEFORE YOU DO OVERHEAD WORK
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EXISTING PROPOSED

(0.00%) 0.00% SLOPE

XX 0.00 ELEVATION TAG

XX STORM MANHOLE

XX DROP INLET

XX CONTOUR

XX RETAINING WALL

XX SCREEN WALL

EXISTING PROPOSED

AC PAVEMENT

6" TYPE "A" CURB

24" TYPE "A" CURB & GUTTER

30" ROLL CURB

PL-RIGHT-OF-WAY

PL-ADJACENT CENTERLINE

EASEMENT LINE

FLOW LINE

SAWCUT LINE

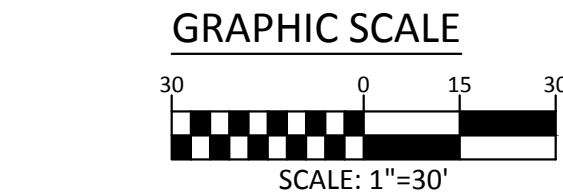
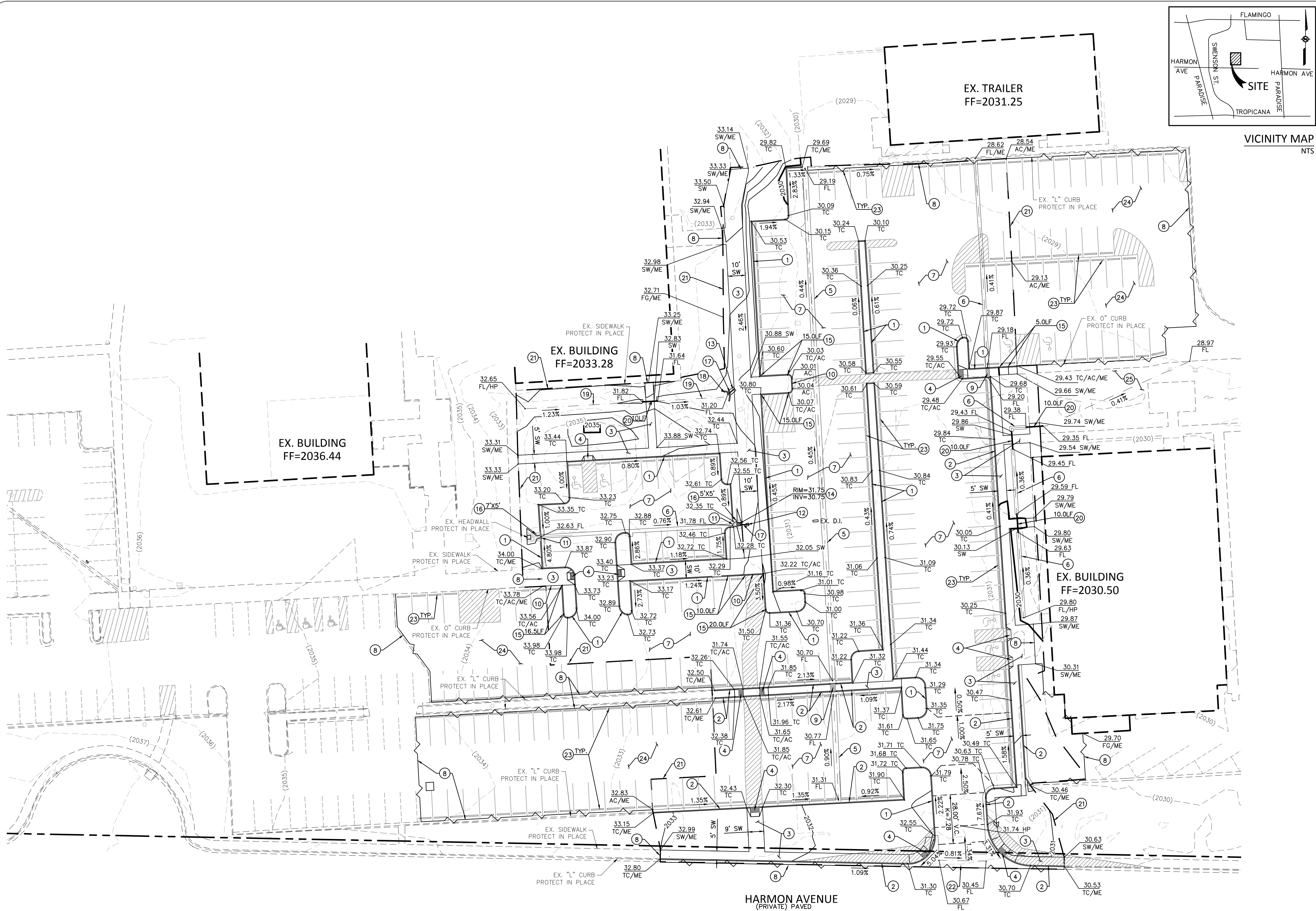
ALTERNATE BID

COLLINS ENGINEERS
3130 S. DURANGO DR., SUITE 404
LAS VEGAS, NV 89117
PHONE: (702) 248-8000
FAX: (702) 248-8070
www.collinsengr.com

PROFESSIONAL ENGINEER-STATE OF NEVADA
THAI Q. TRAN
EXP. 6-30-2018
CIVIL
NO. 21356

UNL/IEPA PARKING LOT
@HARMON AVE.
DEMOLITION PLAN
HARMON AVE. AND SWENSON ST.
CLARK COUNTY, NV.

NO.	DATE	DESIGN BY	DESCRIPTION
CEI PROJECT:	9937		
DESIGN BY:	TQT		
DRAWN BY:	TQT/SS		
CHECKED BY:	TQT		
DATE:	12/21/2016		
SCALE:			
SHEET NUMBER	C2.01		
SHEET 04 OF 08			



BASIS OF BEARING

NORTH 00°05'46" EAST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 22, TOWNSHIP 22 SOUTH, RANGE 61 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN IN FILE 65 OF SURVEYS, AT PAGE 69, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL V.2003 POINT "6C11 23NW6", BEING A RIVET AND SQUARE ALUMINUM PLATE IN THE TOP OF CURB, NORTHEAST CORNER OF MARYLAND PARKWAY AND ROCHELLE AVENUE NEAR THE PC OF MARYLAND PARKWAY.

ELEVATION: 2009.29 (US SURVEY FEET)
612.434 (METERS)

CLARK COUNTY VERTICAL CONTROL V.2003 BASED ON
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

CONSTRUCTION NOTES

NO.	ITEM	USDOCA: UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA.
1	CONSTRUCT MODIFIED "A" TYPE CURB PER DETAIL "A" SHEET C8.01.	
2	CONSTRUCT "L" TYPE CURB PER USDOCA DWG. No. 216.	
3	CONSTRUCT CONCRETE SIDEWALK PER CCAUSD DWG. No. 234.	
4	CONSTRUCT SIDEWALK ADA RAMP PER CCAUSD DWG. No. 235 CASE 1.	
5	CONSTRUCT 3" CONCRETE VALLEY GUTTER PER DETAIL "B" SHEET C8.01	
6	CONSTRUCT 2" CONCRETE VALLEY GUTTER PER DETAIL "B" SHEET C8.01	
7	CONSTRUCT 2.5" AC PAVING OVER 6" TYPE II OVER 4" TYPE I AGGREGATE BASE.	
8	SAWCUT EXISTING AC PAVEMENT OR CONCRETE WALK AND MATCH EXISTING GRADE/ELEVATIONS	
9	CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD No. 236	
10	CONSTRUCT 0" CURB FACE CONCRETE CURB PER DETAIL "C" SHEET C8.01	
11	CONSTRUCT CURB OPENING PER DETAIL "D" SHEET C8.01	
12	REMOVE EX. DROP INLET	
13	REMOVE EX. HEADWALL	
14	INSTALL MODIFIED NDOT TYPE 2A DROP INLET, SEE DETAIL "E" SHEET C8.01	
15	STARTING POINT TO CONSTRUCT "O" TO "A" CURB TRANSITION PER DETAIL "F" SHEET C8.01, LENGTH PER PLAN.	
16	INSTALL RIP RAP, D50 = 4", T=8", PAD DIMENSIONS PER PLAN.	
17	INSTALL 5.50 LF, 4" PVC SD @ 1.0% - CONNECT AND MATCH EX. PIPE INVERT.	
18	CONSTRUCT TYPE II CONCRETE HEADWALL PER DETAIL "G" SHEET C8.02	
19	CONSTRUCT 5" WIDE SWALE PER DETAIL "H" SHEET C8.01	
20	CONSTRUCT 4" PVC PIPE FOR DRAINAGE UNDER SIDEWALK. LENGTH PER PLAN. SEE DETAIL "J" SHEET C8.01	
21	DAYLIGHT LINE/MATCH EXISTING GRADE	
22	CONSTRUCT 8" WIDE VALLEY GUTTER PER USDOCA DWG. No. 228	
23	INSTALL PRECAST BUMPER BLOCK PER USDOCA DWG. No. 238	
24	TOP MILL AND REPLACE AC PAVEMENT, FULL DEPTH, EXISTING SUBBASE TO REMAIN.	
25	CONTRACTOR TO GRADE LANDSCAPE AREA TO DRAIN AS SHOWN	

SIGHT VISIBILITY ZONE LEGEND

SIGHT VISIBILITY ZONE

SIGHT VISIBILITY ZONE NOTE:

NO WALLS, FENCES SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, 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 TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPE MEDIANS.

NOTE:

REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS OR PAVEMENT MARKINGS), UNDER CLARK COUNTY'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITY TO CLARK COUNTY'S SATISFACTION. ALL MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.

GENERAL NOTE:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO FILE A NOTICE OF INTENT/REQUEST TO BE INCLUDED IN THE STORM WATER GENERAL PERMIT, AND SUBMIT THE ASSOCIATED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED BY FEDERAL, AND MONITORED BY THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION.

NOTE:

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.

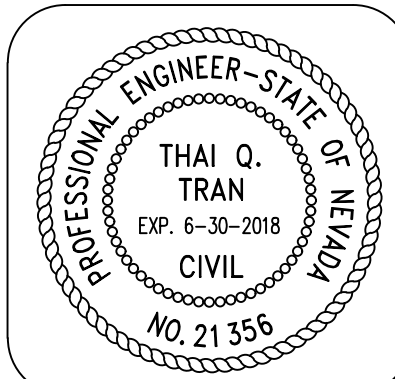
NOTE TO CONTRACTOR:

CONTRACTOR SHALL PROVIDE EROSION CONTROL IN ALL LANDSCAPE AREAS WHERE ROOF DRAINS DISCHARGE TO GRADE UNLESS OTHERWISE NOTED HEREON.

FLOOD ZONE NOTE:

AS SHOWN BY FLOOD INSURANCE RATE MAP NO. 32003C2557F, DATED NOVEMBER 16, 2011, AN UNSHADED ZONE X, AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

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UNL/VEPA PARKING LOT
@HARMON AVE.

GRADING PLAN

HARMON AVE. AND SWENSON ST.
CLARK COUNTY, NV.

DESCRIPTION

DESIGN BY

DATE

NO.

CEI PROJECT: 9937

DESIGN BY: TQT

DRAWN BY: TQT/SS

CHECKED BY: TQT

DATE: 12/21/2016

SCALE:

SHEET NUMBER

C4.01

SHEET 06 OF 08

CALL BEFORE YOU DIG
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

CALL BEFORE YOU DO OVERHEAD WORK
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

CALL BEFORE YOU DO UNDERGROUND WORK
CALL 1-702-455-7511
CLARK COUNTY PUBLIC UTILITIES AND CALL 1-702-432-5300
FEDERAL AND METEOROLOGICAL SERVICE OF TRANSPORTATION

1-702-227-2929

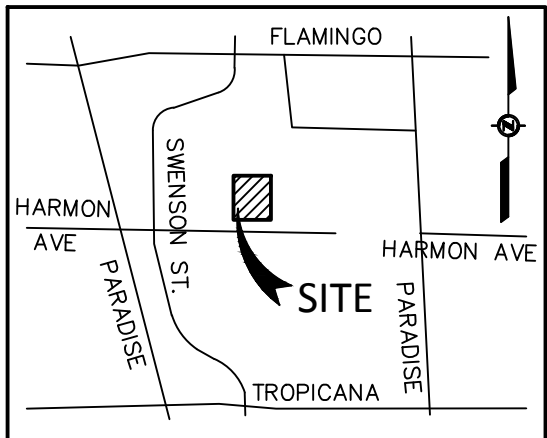
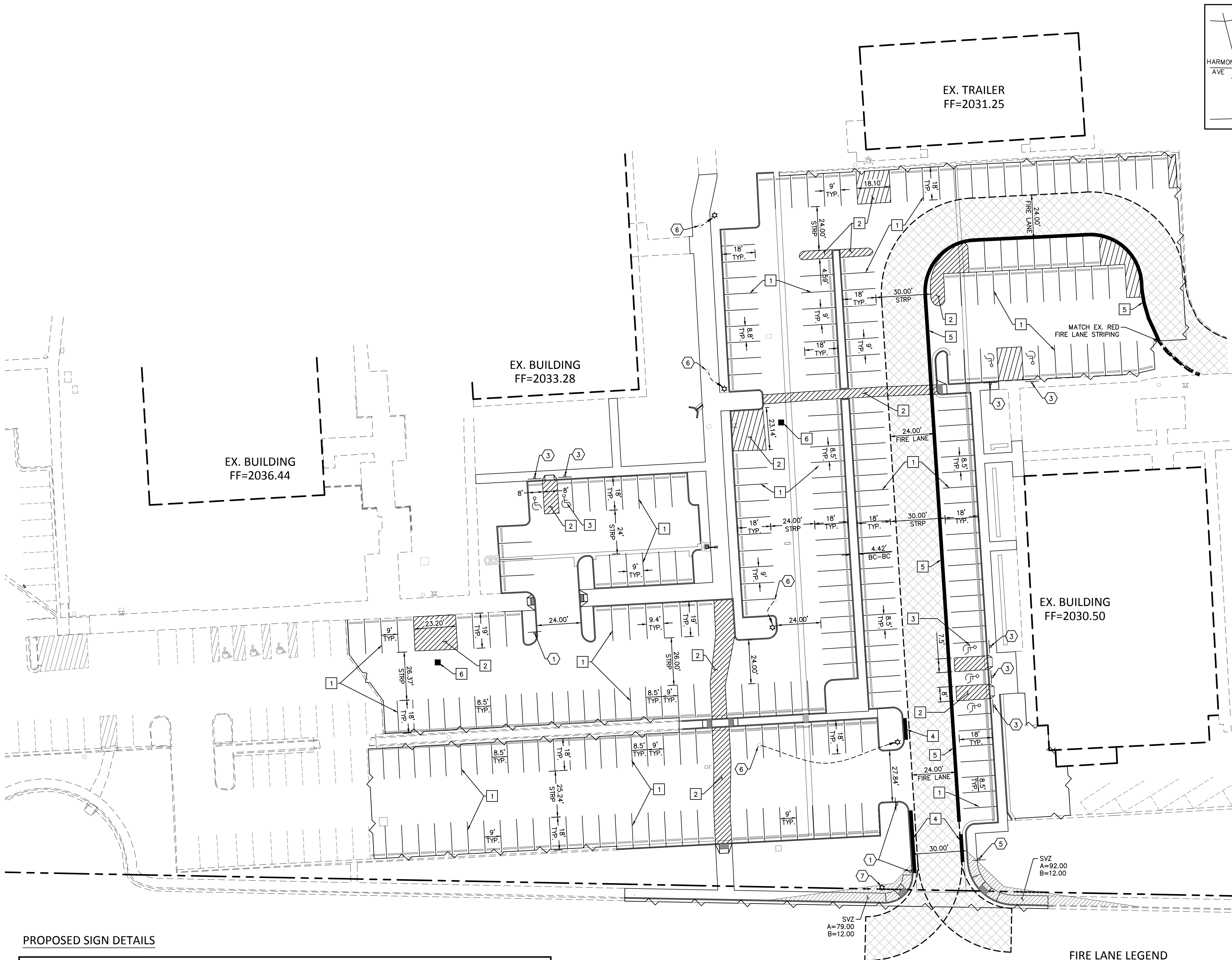
COLLINS ENGINEERS ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY.

LEGEND

EXISTING	PROPOSED
(0.00%)	0.00% SLOPE
XX	0.00% ELEVATION TAG
⊙	STORM MANHOLE
⊙	DROP INLET
---	CONTOUR
---	RETAINING WALL
---	SCREEN WALL

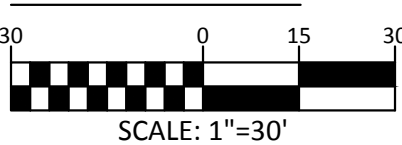
EXISTING	PROPOSED
---	AC PAVEMENT
---	6" TYPE "A" CURB
---	24" TYPE "L" CURB & GUTTER
---	30" ROLL CURB

---	PL-RIGHT-OF-WAY
---	PL-ADJACENT CENTERLINE
---	EASEMENT LINE
---	FLOW LINE
---	SAWCUT LINE



VICINITY MAP
NTS

GRAPHIC SCALE



BASIS OF BEARING

NORTH 00°05'46" EAST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 22, TOWNSHIP 22 SOUTH, RANGE 61 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN IN FILE 65 OF SURVEYS, AT PAGE 69, OFFICIAL RECORDS, CLARK COUNTY, NEVADA.

BENCHMARK

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ELEVATION: 2009.29 (US SURVEY FEET)
612.434 (METERS)

CLARK COUNTY VERTICAL CONTROL V.2003 BASED ON
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

SIGNAGE / LIGHTING CONSTRUCTION NOTES

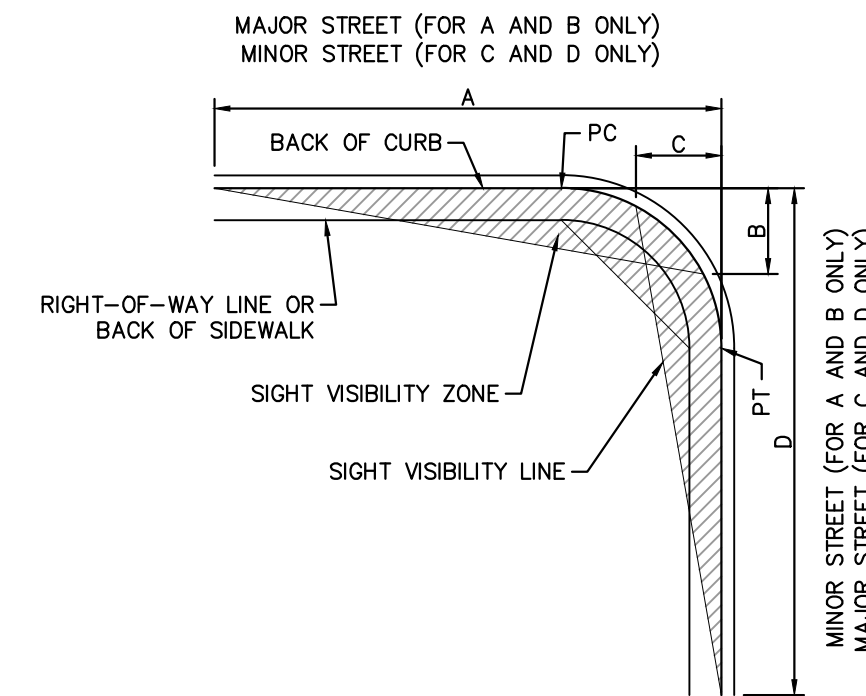
NO.	ITEM USDOCA: UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA.
1	INSTALL SIGN R1-1 (STOP) SIGN PER USDOCA NO. 249.1. SEE DETAIL 1 THIS SHEET.
2	INSTALL FIRE LANE SIGN PER USDOCA NO. 249.1. SEE DETAIL 2 THIS SHEET.
3	INSTALL SIGN R7-8A, R7-8B ADA VAN ACCESSIBLE PARKING SIGN PER USDOCA NO. 249.1. SEE DETAIL 3 THIS SHEET.
4	INSTALL SIGN R7-8 ADA ACCESSIBLE PARKING SIGN PER USDOCA NO. 249.1. SEE DETAIL 4 THIS SHEET.
5	INSTALL SIGN R14-1A NOT A THRU STREET SIGN PER USDOCA NO. 249.1. SEE DETAIL 5 THIS SHEET.
6	RELOCATE EXISTING LIGHT POLE AS SHOWN
7	INSTALL LIGHT POLE AS SHOWN. MODEL AND SPECIFICATIONS PROVIDED BY OWNER.

STRIPING CONSTRUCTION NOTES

NO.	ITEM USDOCA: UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA.
1	INSTALL 4" WHITE PAINTED PARKING STALL LINE, (TYP.)
2	INSTALL 4" WHITE PAINTED LINE @ 45° AT 3' ON CENTER AS SHOWN.
3	INSTALL ADA PARKING SPACE MARKINGS PER MUTCD FIGURE 3B.22.
4	RED PAINTED CURB, REFERENCE FIRE LANE LEGEND ON THIS SHEET FOR DETAILS.
5	INSTALL 1" WIDE RED PAINTED LINE ON AC TO INDICATE FIRE LANE
6	INSTALL REFLECTIVE BLUE MARKER

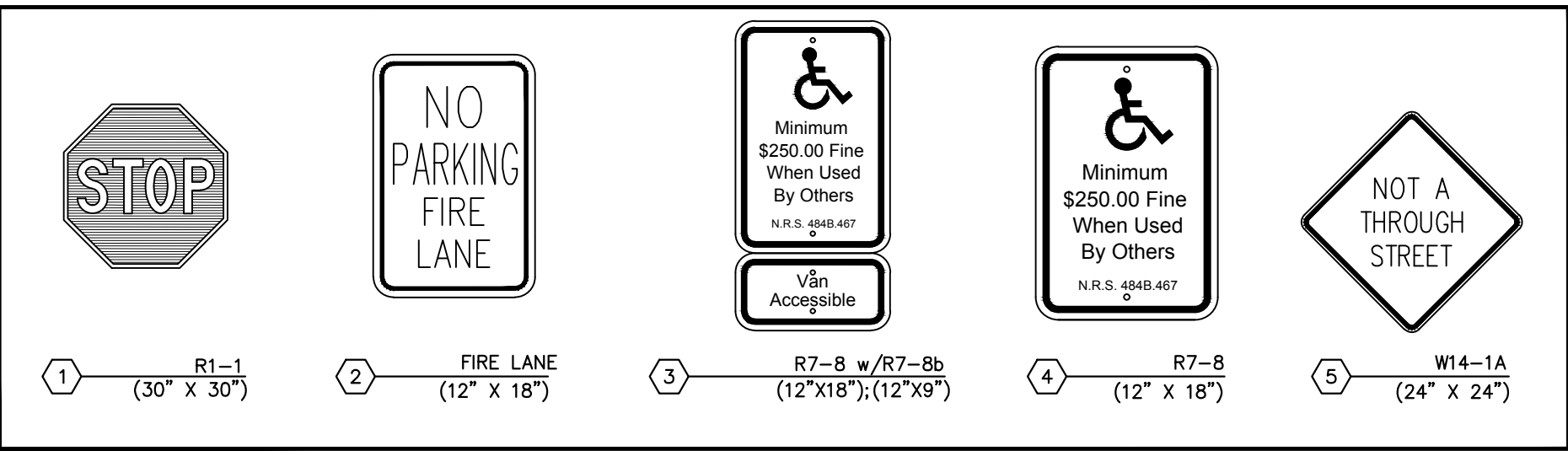
SIGHT VISIBILITY ZONE LEGEND

SHaded area: SIGHT VISIBILITY ZONE



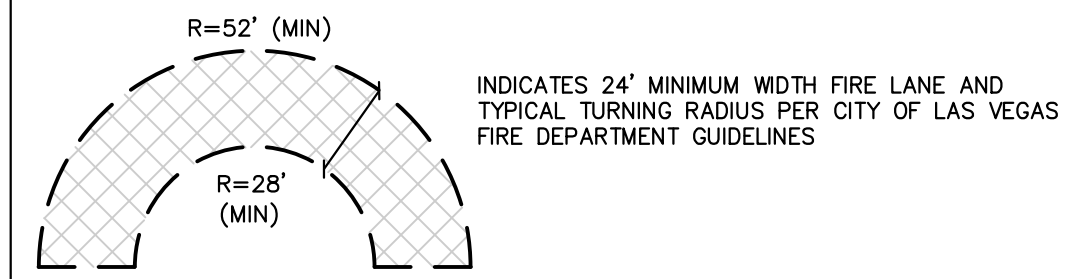
SIGHT VISIBILITY ZONE NOTE:
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PROPOSED SIGN DETAILS



FIRE LANE LEGEND

- INDICATES RED PAINTED CURB WITH "NO PARKING - FIRE LANE" PAINTED EVERY 100 FT. PER CITY OF LAS VEGAS FIRE DEPARTMENT GUIDELINES.
- INDICATES PROPOSED LOCATION OF FIRE LANE SIGNS TO BE PLACED AT 100' INCREMENTS. FIRE LANE SIGNS SHALL CONFORM TO CITY OF LAS VEGAS FIRE DEPARTMENT GUIDELINES
- INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS ADJACENT TO THE FIRE HYDRANT ON ALL IMPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS, OR FIRE LANES:
 - ON ROADWAYS WITH NO PARKING PERMITTED ON THE HYDRANT SIDE; EIGHT (8) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.
 - ON ROADWAYS WITH PARKING PERMITTED ON THE HYDRANT SIDE; (16) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.



CALL BEFORE YOU DIG
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

CALL BEFORE YOU DO UNDERGROUND WORK
CALL 1-702-455-7511
CLARK COUNTY PUBLIC UTILITIES DEPARTMENT
CALL 1-702-432-5300
FURNISH AND MAINTAIN SYSTEM OF TRANSPORTATION

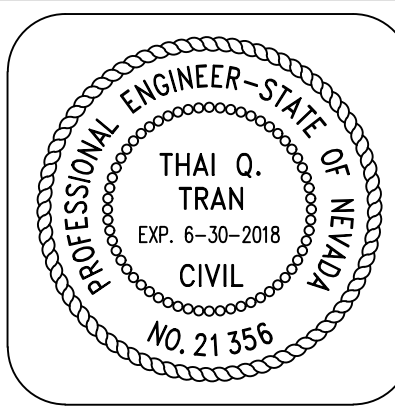
CALL BEFORE YOU DO OVERHEAD WORK
CALL 1-702-227-2929

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LEGEND

- | EXISTING | PROPOSED |
|---------------------|---------------------|
| 0.00% SLOPE | 0.00% SLOPE |
| 0.00% ELEVATION TAG | 0.00% ELEVATION TAG |
| XX | XX |
| STORM MANHOLE | STORM MANHOLE |
| DROP INLET | DROP INLET |
| CONTOUR | CONTOUR |
| RETAINING WALL | RETAINING WALL |
| SCREEN WALL | SCREEN WALL |
- | EXISTING | PROPOSED |
|----------------------------|----------------------------|
| AC PAVEMENT | AC PAVEMENT |
| 6" TYPE "A" CURB | 6" TYPE "A" CURB |
| 24" TYPE "L" CURB & GUTTER | 24" TYPE "L" CURB & GUTTER |
| 30" ROLL CURB | 30" ROLL CURB |
- | |
|-----------------|
| PL-RIGHT-OF-WAY |
| PL-ADJACENT |
| CENTERLINE |
| EASEMENT LINE |
| FLOW LINE |
| SAWCUT LINE |

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**UNLVEPA PARKING LOT
@HARMON AVE.**
SIGNAGE AND STRIPING PLAN
HARMON AVE. AND SWENSON ST.
CLARK COUNTY, NV.

DESCRIPTION

DESIGN BY
DATE
NO.

CEI PROJECT: 9937
DESIGN BY: TQT
DRAWN BY: TQT/SS
CHECKED BY: TQT

DATE:
12/21/2016
SCALE:

SHEET NUMBER
C6.01
SHEET 07 OF 08

NOTE:

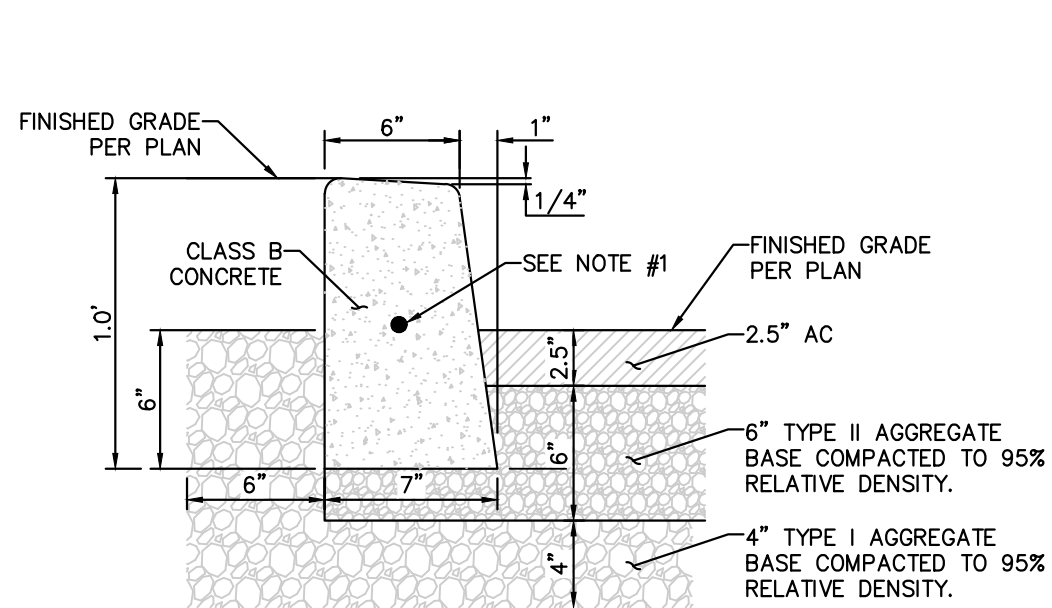
"OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED OR OBSCURED DURING CONSTRUCTION."

COUNTY OF CLARK FIRE DEPARTMENT APPROVAL

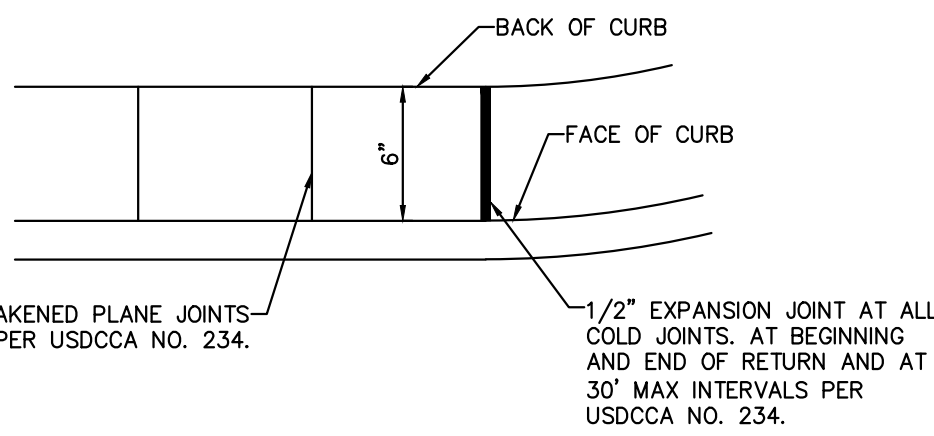
BY: _____ DATE: _____

APPROVAL OF THESE PLANS 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.

FIRE FLOW _____ GPM AT 20 PSI RESIDUAL



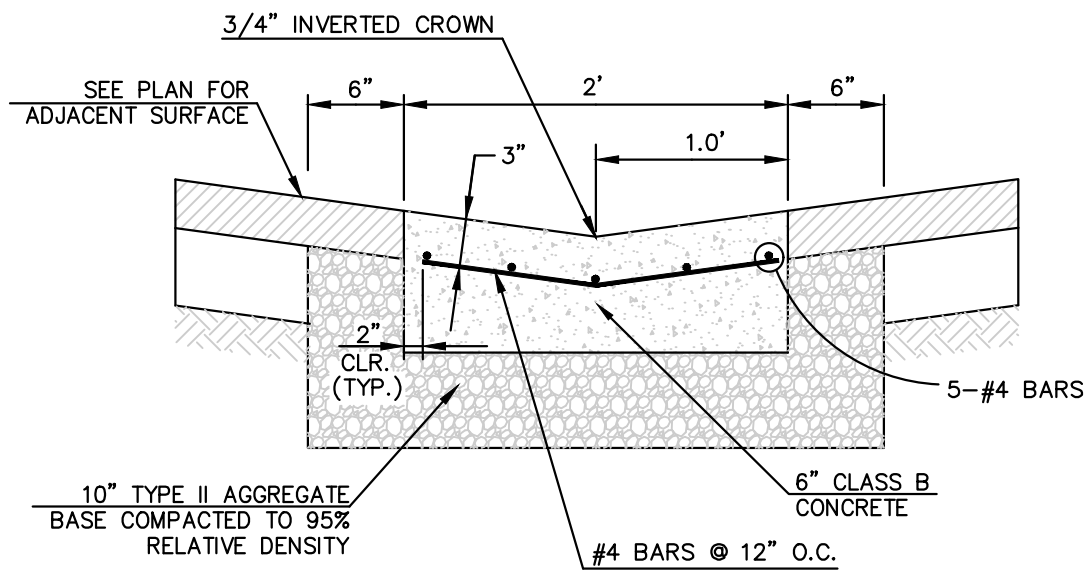
TYPE 'A' CURB SECTION



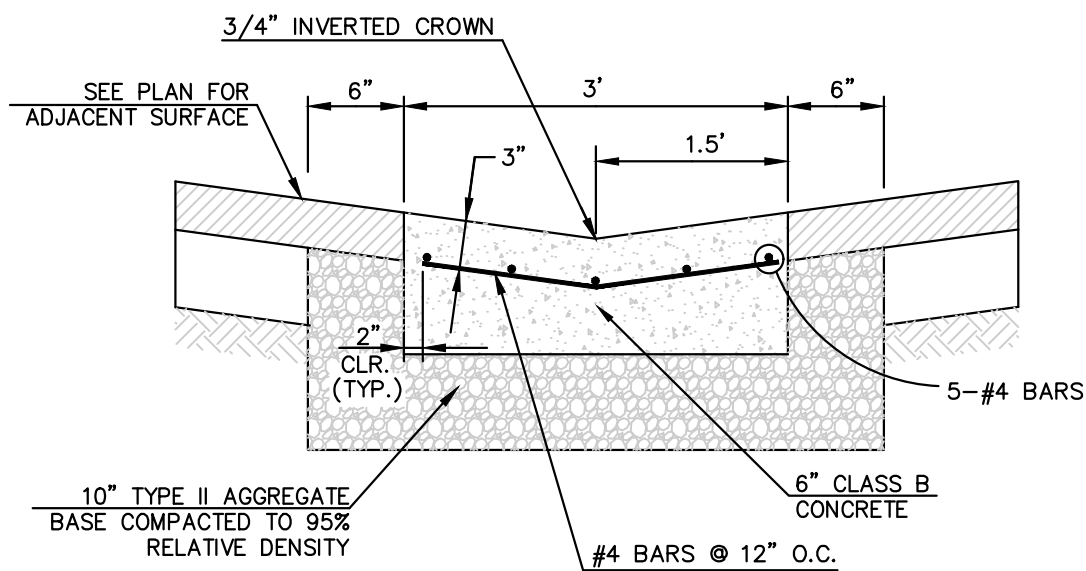
TYPICAL PLAN

NOTES:
1. CONTINUOUS #4 REBAR IN RADIUS OF CURB ONLY.

A
C8.01 TYPE 'A' CURB (ONSITE)
NTS

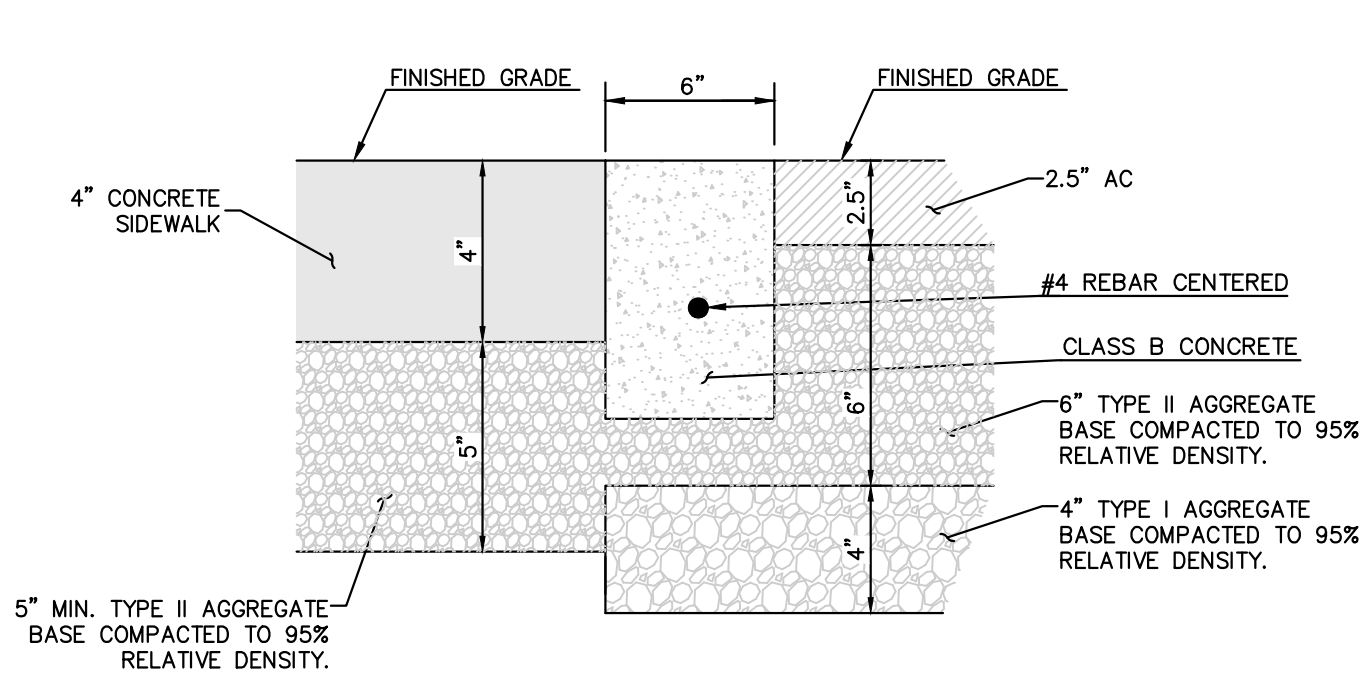


2' CONCRETE VALLEY GUTTER

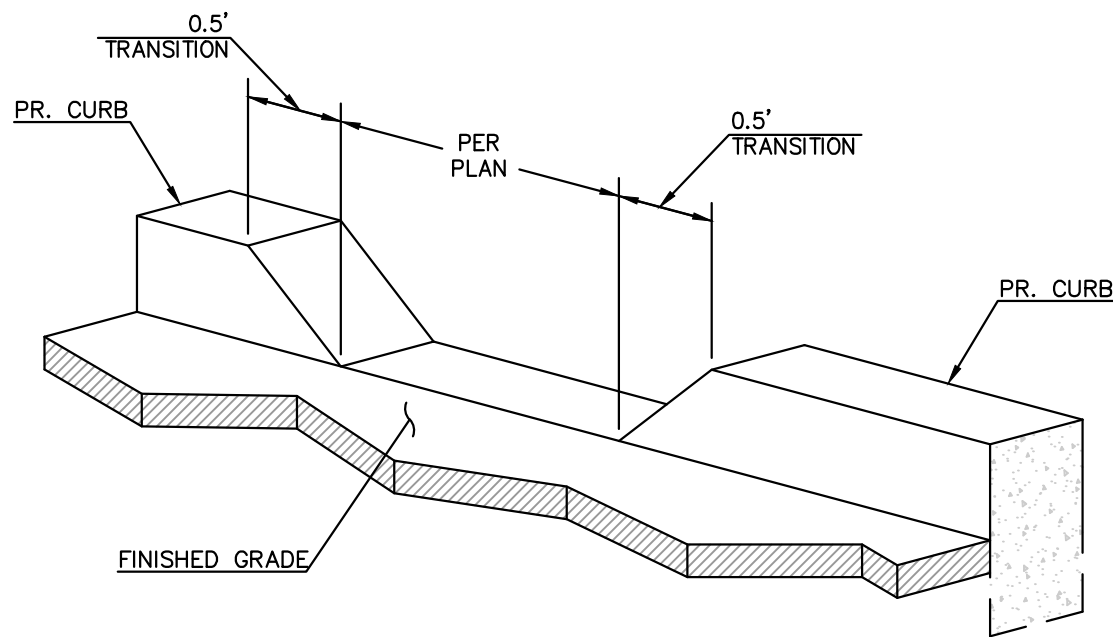


3' CONCRETE VALLEY GUTTER

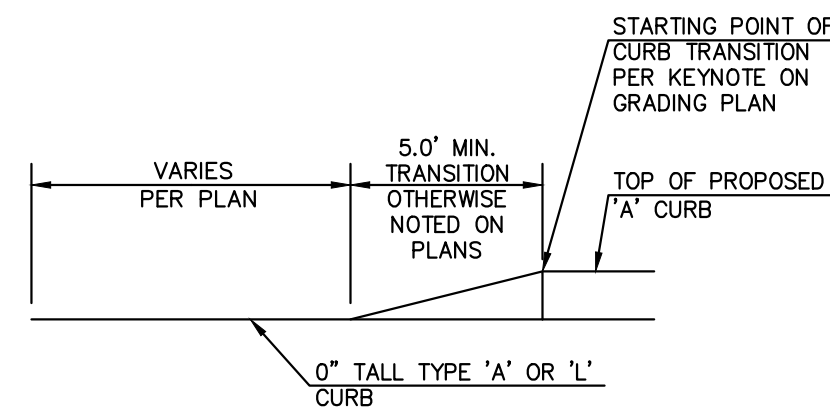
B
C8.01 CONCRETE VALLEY GUTTER DETAIL
NTS



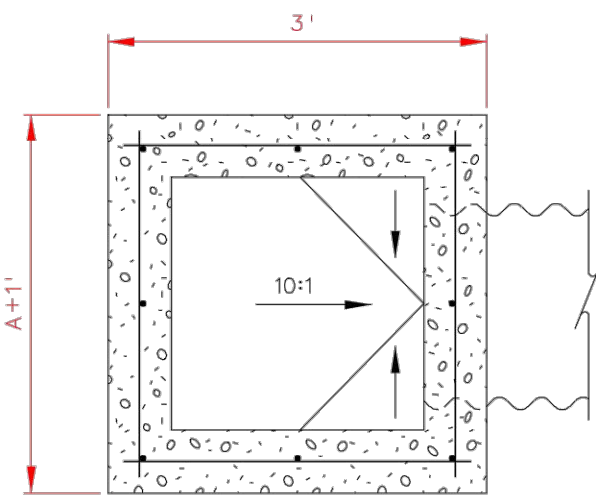
C
C8.01 0" TALL TYPE 'A' CURB
NTS



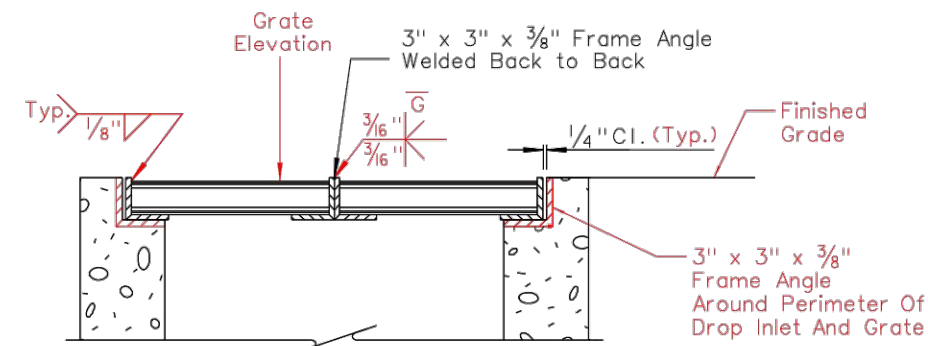
D
C8.01 CURB OPENING
(ON-SITE ONLY)
NTS



F
C8.01 ONSITE CURB TRANSITION
NTS



SECTION C-C

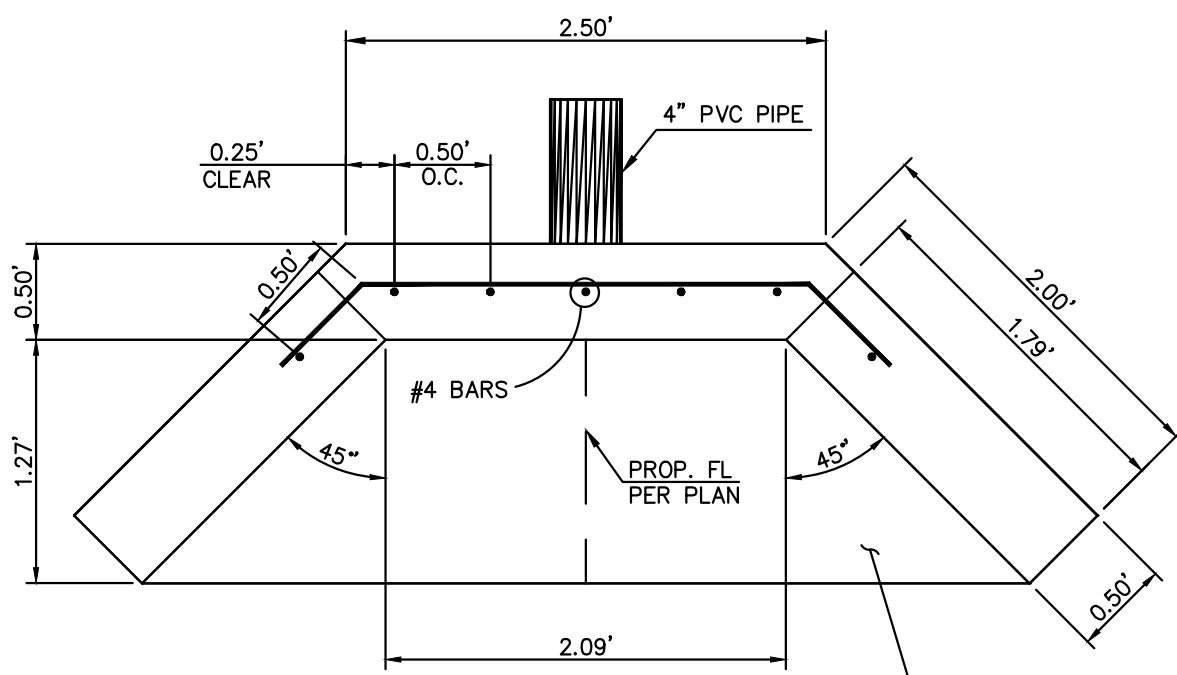


SECTION B-B

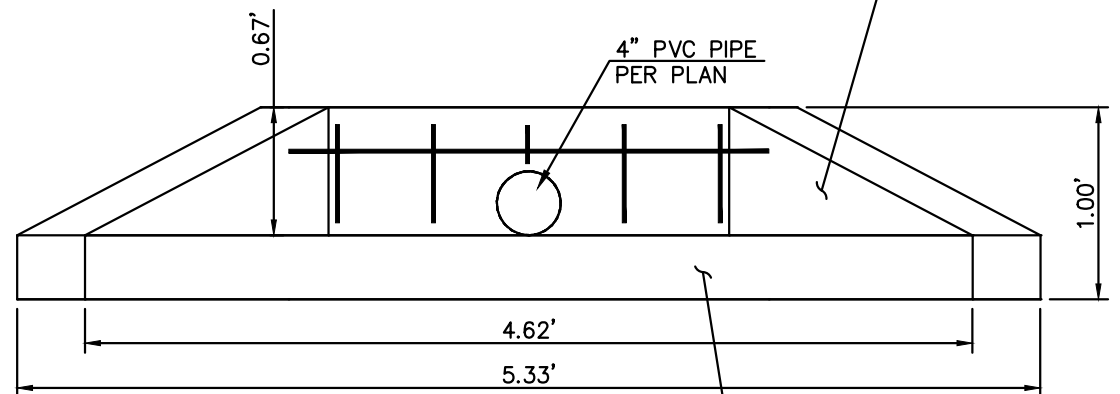
- NOTES:
- ALL CONCRETE SHALL BE CLASS A OR AA.
 - REINFORCING STEEL SHALL BE NO. 4 BARS WITH MAXIMUM SPACING AT 18" CENTERS, WELDED TIGHTLY AT ALL INTERSECTIONS AND EMBEDDED 2" CLEAR OF ALL CONCRETE SURFACES.
 - EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1".
 - STRUCTURAL STEEL WEIGHT INCLUDES THE 2" NORMAL DIAMETER PIPE STANDARD WEIGHT AND 3"X3"X3/8" FRAME ANGLES.
 - FOR 2" NOMINAL DIAMETER PIPE SEE ASTM A53.
 - SEE SHEET R-2.9.1 FOR DETAILS IF CONNECTING HDPE PIPE.
 - SLOPE CATCH BASIN FLOORS 10:1 FROM ALL DIRECTIONS TOWARD OUTLET PIPE. IF BASIN IS USED AS A JUNCTION, SHAPE FLOW LINE(S) TO OUTLET PIPE AND PROVIDE A 10:1 SLOPE TO FLOW LINE(S).
 - RUN REBAR CONTINUOUS THRU CONSTRUCTION JOINT. JOINT MUST BE A MIN. 3" FROM HORIZONTAL BARS.

DESIGN NOTES:

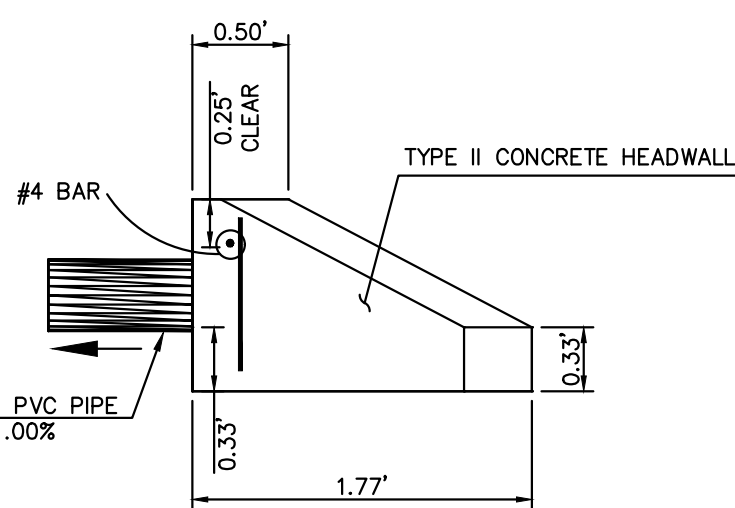
- D1. ADDITIONAL PIPE PENETRATIONS MAY BE PLACED IN ANY WALL.



TOP VIEW

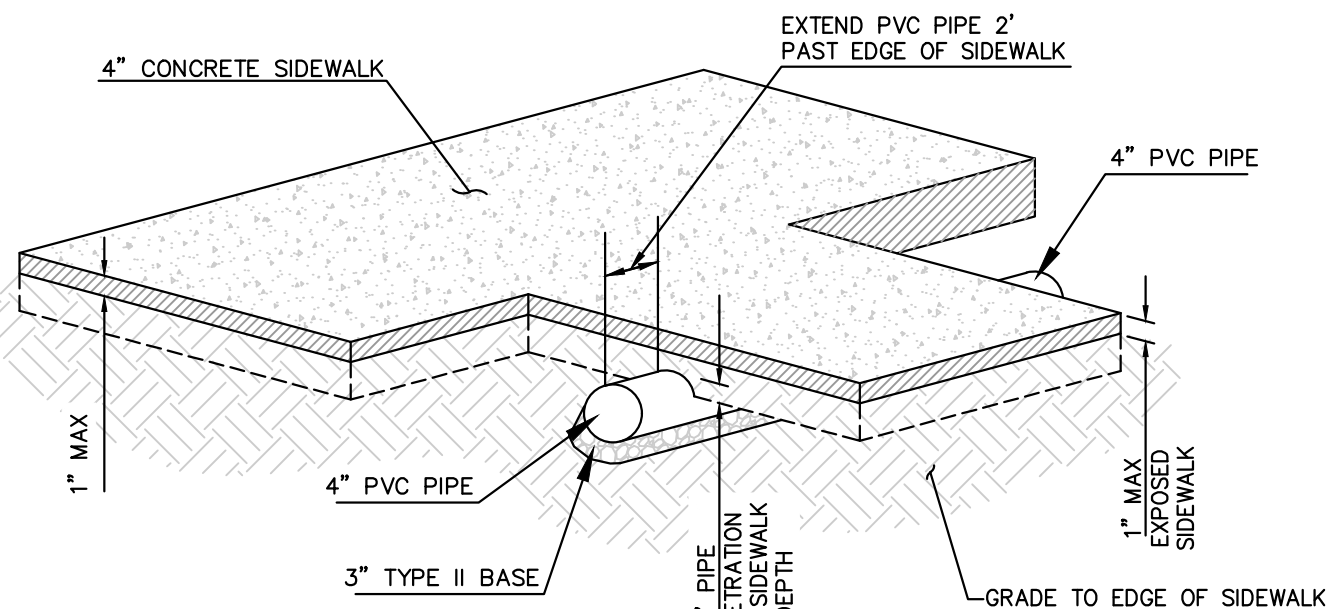


FRONT VIEW

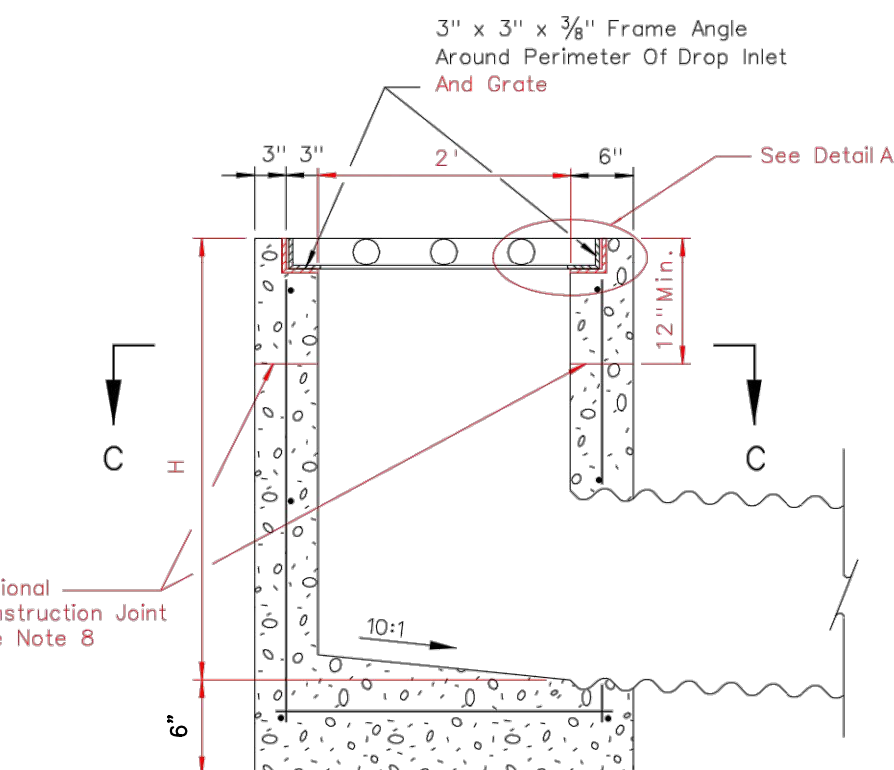


RIGHT SIDE VIEW

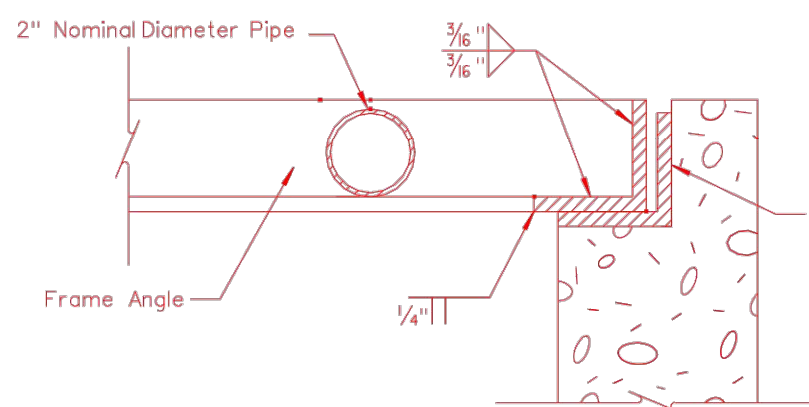
G
C8.01 CONCRETE HEADWALL
NTS



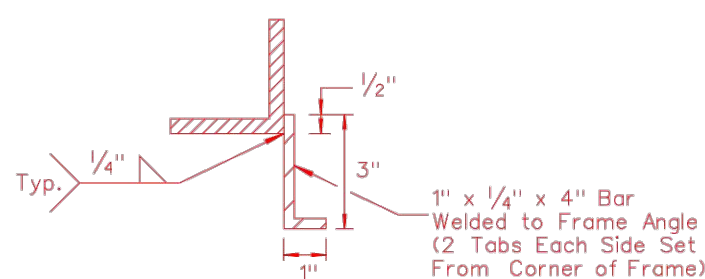
J
C8.01 4" STORM DRAIN CULVERT
NTS



SECTION A-A



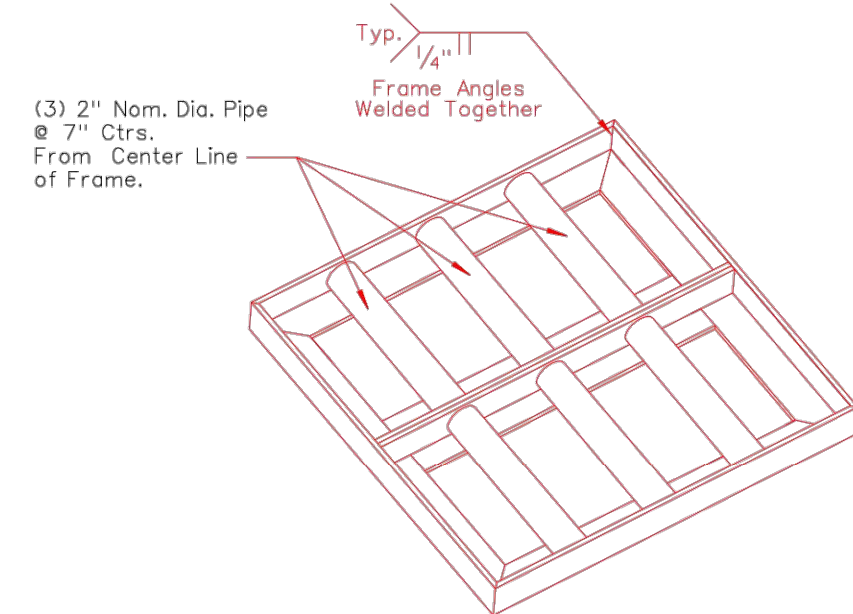
DETAIL A



TAB DETAIL

PIPE SIZE (INCH)	A	H MIN. (FT)
4"	2'	1.00

E
C8.01 MODIFIED NDOT TYPE 2A DROP INLET
NTS



GRATE DETAIL

ALTERNATE BID

UNL/IEPA PARKING LOT
@HARMON AVE.

DETAIL SHEET
HARMON AVE. AND SWENSON ST.
CLARK COUNTY, NV.

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