

IMPROVEMENT PLANS FOR

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

INDEX OF DRAWINGS

SHEET NO.	SHEET TITLE
1. C1.01	COVER AND APPROVAL SHEET
2. C1.02	GENERAL NOTES
3. C1.03	OVERALL SITE PLAN
4. C2.01	DEMOLITION PLAN
5. C3.01	HORIZONTAL CONTROL PLAN
6. C4.01	GRADING PLAN
7. C6.01	SIGNAGE AND STRIPING PLAN
8. C8.01	DETAIL SHEET

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

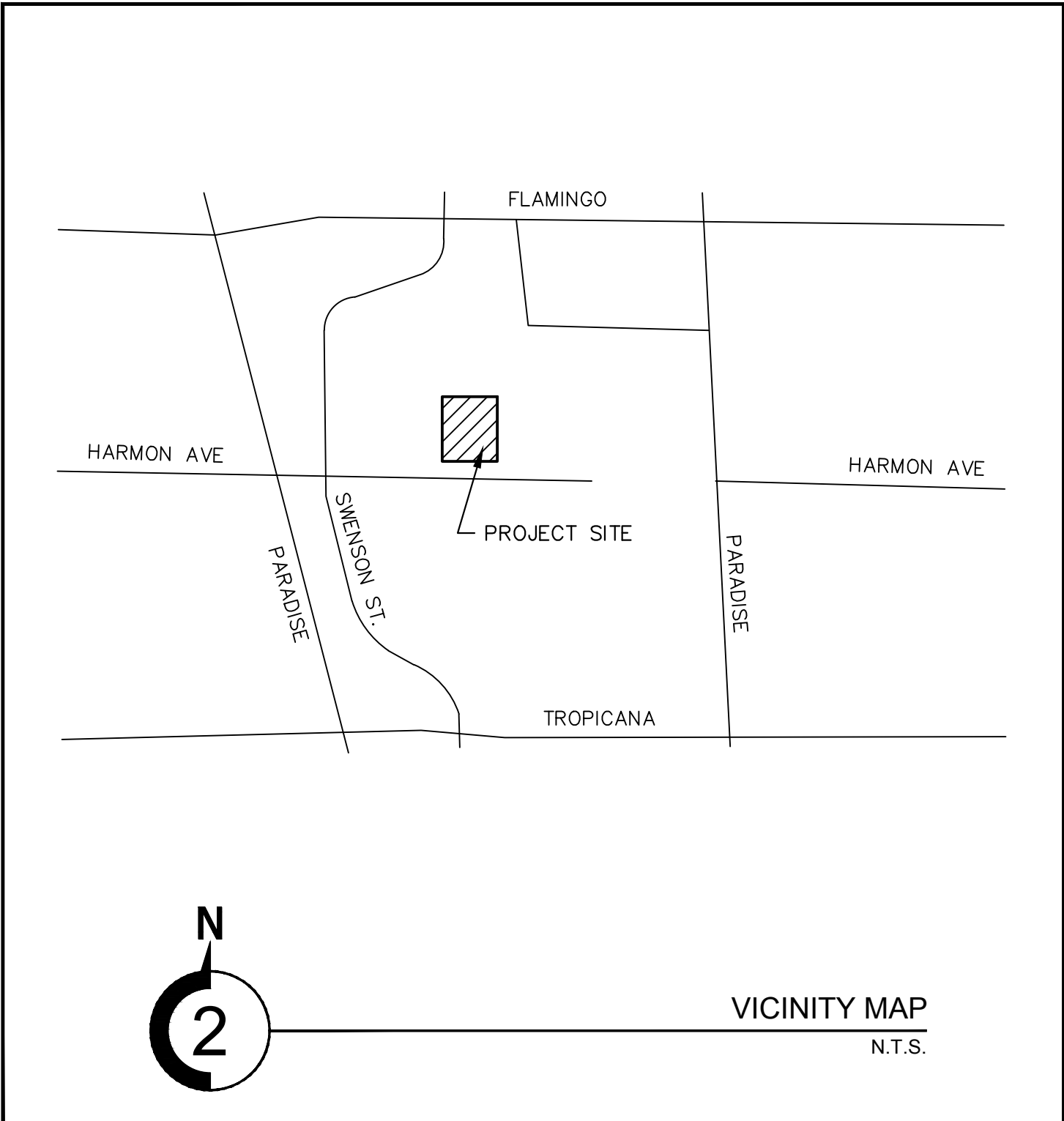
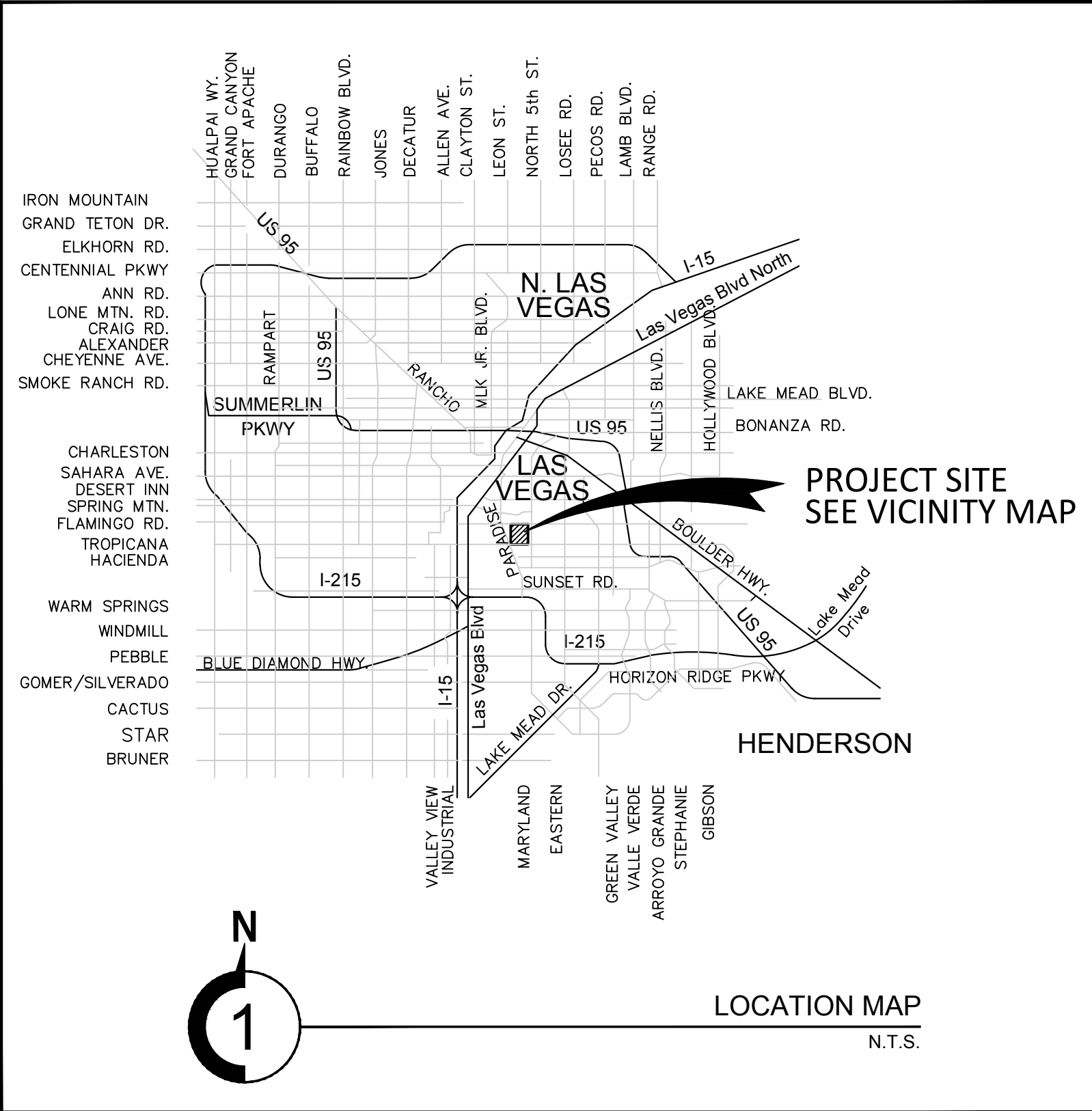
SOUTHWEST GAS CORPORATION DATE

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 X AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.



BASE BID

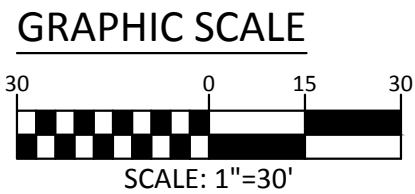
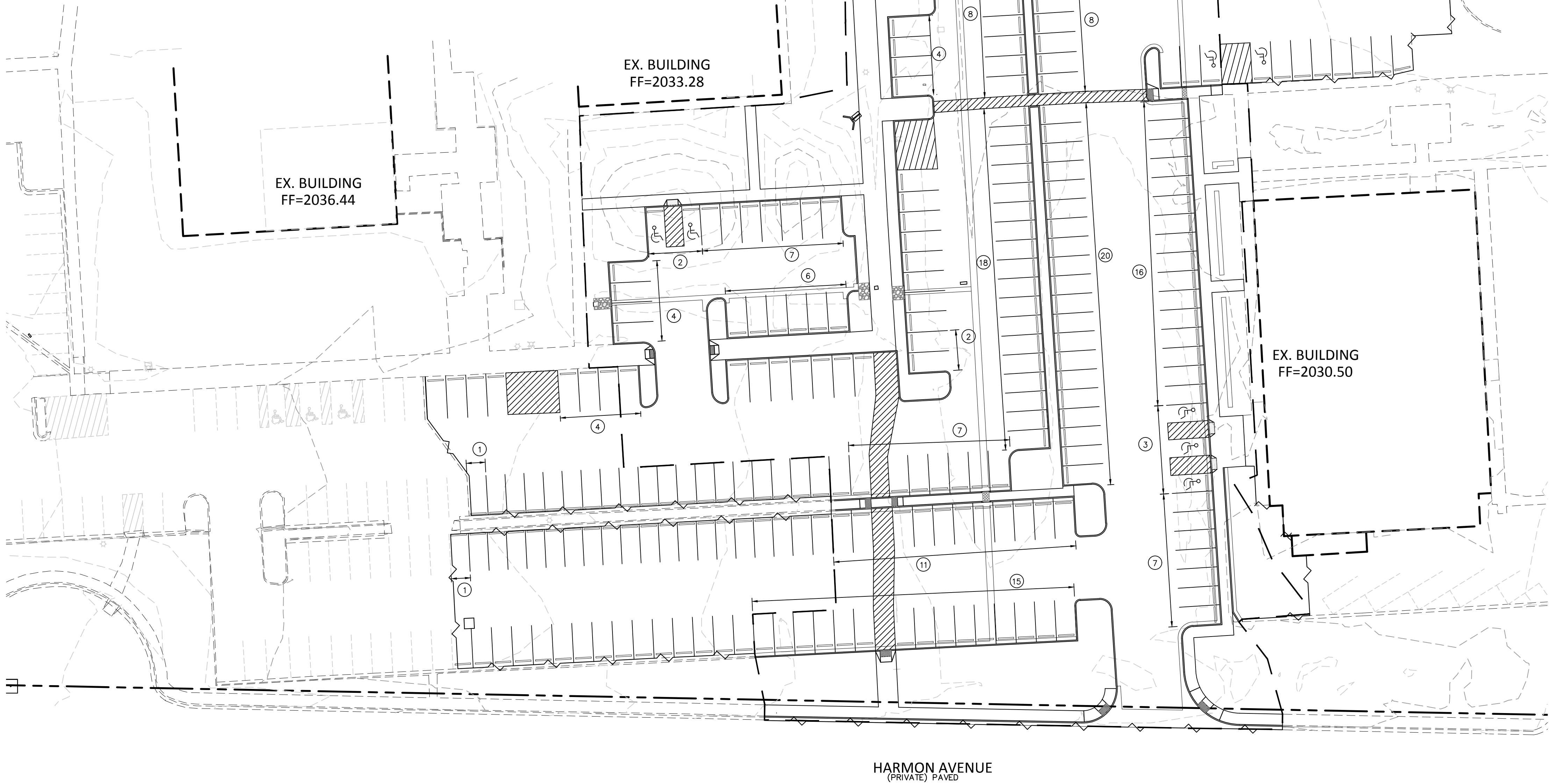
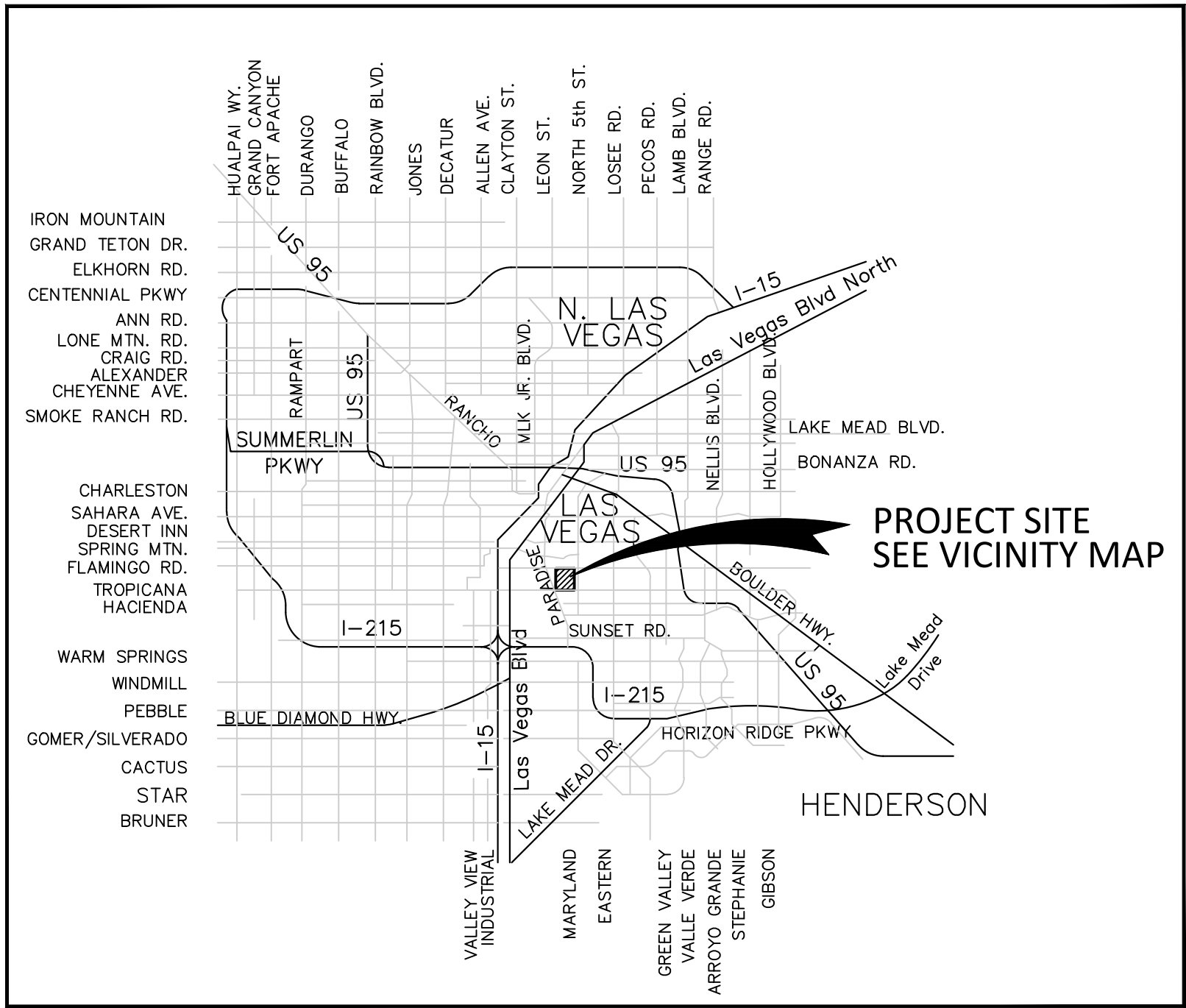
UNLV/EPA PARKING LOT
@HARMON AVE.

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:	5/01/2017	SCALE:	N.T.S.
SHEET NUMBER	C1.01	SHEET 01 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 23NWN6", 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).

BASE BID

UNL/IEPA PARKING LOT
@HARMON AVE.

SITE PLAN

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

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	141
PROPOSED ADDITIONAL HANDICAP PARKING	5

PARKING ANALYSIS (TOTAL)

TOTAL STANDARD PARKING	361
TOTAL HANDICAP PARKING	10
TOTAL PARKING	371

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

Call
811
1-800-227-2600

AVOID HITTING UNDERGROUND
POWER LINES. IT'S COSTLY.

CALL BEFORE
YOU DO
OVERHEAD
WORK

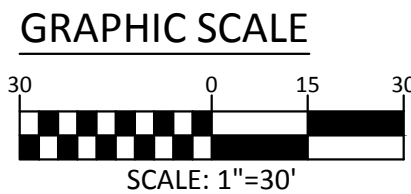
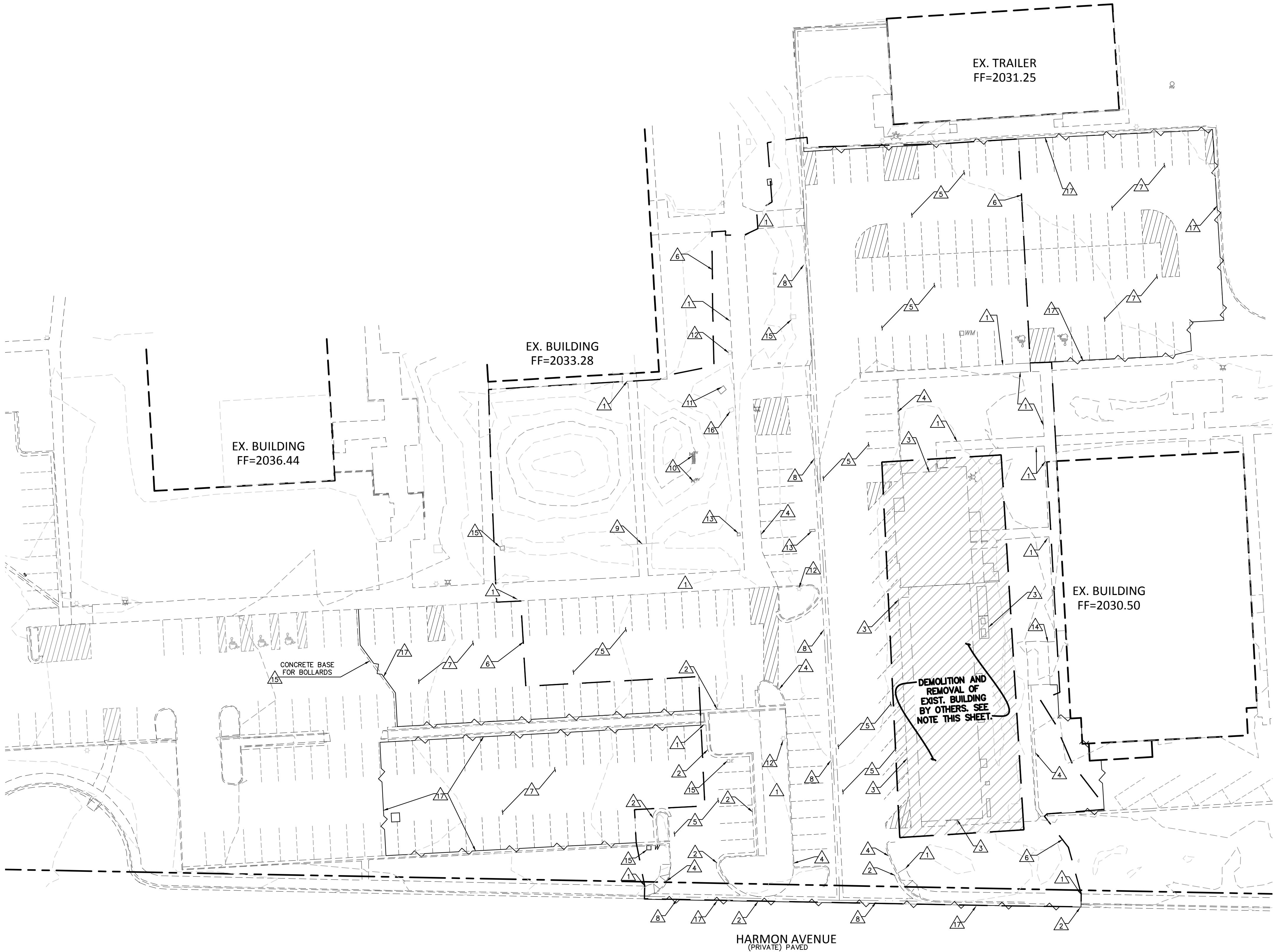
CALL 1-702-455-7511
CLARK COUNTY PUBLIC UTILITIES AND
CALL 1-702-432-5300
FIRE DEPT. AND METEOROLOGICAL SERVICE

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 (0.00)	PROPOSED XXX	0.00 XXX	ELEVATION TAG
EXISTING XXX	PROPOSED XXX	XXX	DRAIN INLET
EXISTING XXX	PROPOSED XXX	XXX	RETAINING WALL
EXISTING XXX	PROPOSED XXX	XXX	SCREEN WALL
EXISTING XXX	PROPOSED XXX	XXX	UTILITY POLE
EXISTING XXX	PROPOSED XXX	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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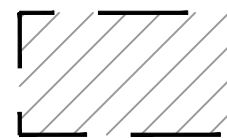
ELEVATION: 2009.29 (US SURVEY FEET)
612.434 (METERS)

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

CONSTRUCTION / 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 SD PIPE	
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 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
TRAFFIC AND SIGNAL SYSTEMS

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

CALL BEFORE YOU DO OVERHEAD WORK
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LEGEND

EXISTING PROPOSED
(0.00%) 0.00% SLOPE
(0.00%) 0.00% ELEVATION TAG
XX XX
① STORM MANHOLE
② DROP INLET
③ CONTOUR
④ RETAINING WALL
⑤ SCREEN WALL

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

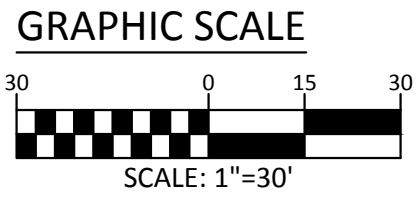
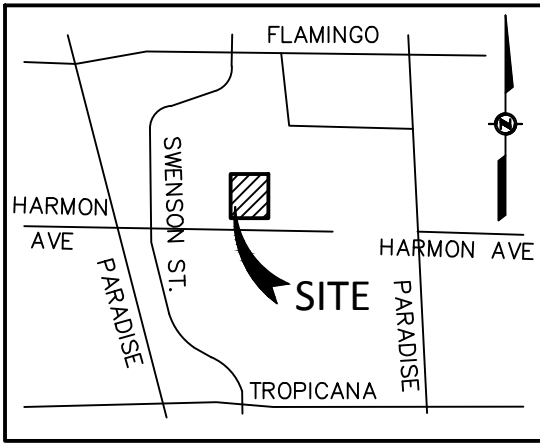
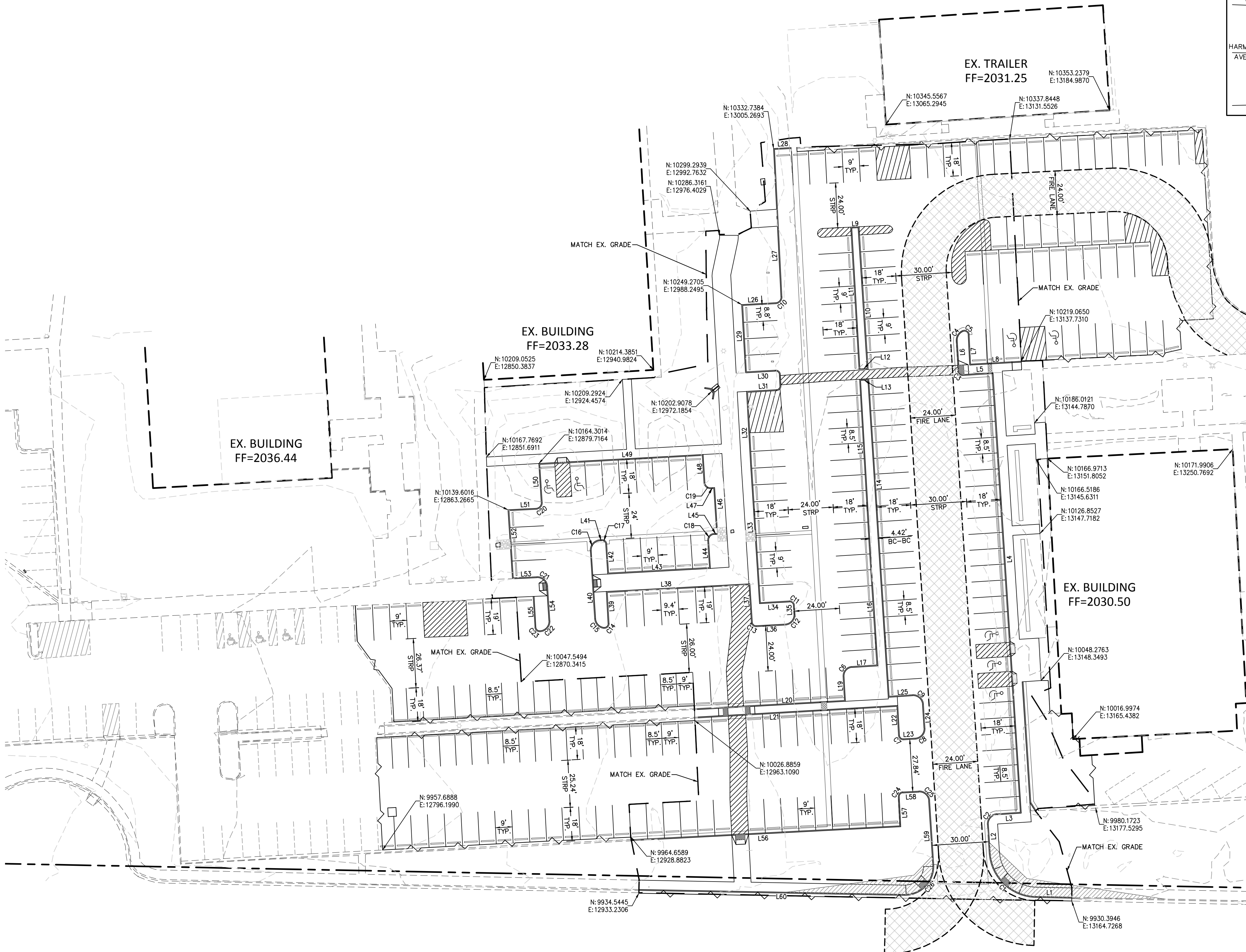
PL-RIGHT-OF-WAY
PL-ADJACENT
CENTERLINE
EASEMENT LINE
FLOW LINE
SAWCUT LINE

BASE BID

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:
5/01/2017
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.

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NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

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.

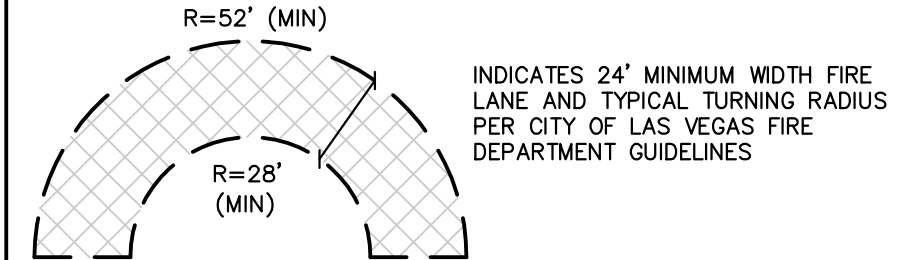
FIRE LANE LEGEND

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.



INDICATES 24' MINIMUM WIDTH FIRE LANE AND TYPICAL TURNING RADIUS PER CITY OF LAS VEGAS FIRE DEPARTMENT GUIDELINES

NOTE:

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

NOTE:

ALL CURVE AND LINE DIMENSIONS ARE TAKEN FROM BACK OF CURB UNLESS OTHERWISE NOTED.

NOTE:

REFER TO SHEETS C6.01 FOR: FIRE LANE SIGNS, PAINTED RED CURB, FIRE HYDRANT BLUE REFLECTORS, AND RED STRIPE ALONG FIRE LANE.

LINE TABLE

LINE	BEARING	LENGTH
L1	N88°51'28"W	19.25
L2	N3°40'36"W	15.11
L3	S86°19'24"W	13.00
L4	S3°40'36"E	236.00
L5	N86°19'24"E	16.00
L6	S3°41'38"E	16.23
L7	S2°51'01"E	16.22
L8	N86°43'05"E	27.65
L9	S87°09'18"W	3.42
L10	N3°40'36"W	75.46
L11	S3°18'26"E	75.51
L12	N86°19'24"E	3.90
L13	S86°41'08"W	3.94
L14	N3°40'36"W	170.00
L15	S3°18'52"E	88.41
L16	S3°40'36"E	64.47
L17	S86°19'24"W	13.91
L18	S3°10'50"E	13.38
L19	S86°50'41"W	79.33
L20	S86°41'25"W	106.95
L21	S3°10'50"E	16.00
L22	S86°41'25"W	6.35
L23	N3°40'36"W	12.76
L24	S86°19'24"W	13.00
L25	S86°49'14"W	18.16
L26	S2°55'36"E	79.41
L27	S87°09'18"W	9.43
L28	S3°10'46"E	36.49
L29	S86°45'59"W	16.00
L30	S86°45'59"W	16.00

LINE TABLE

LINE	BEARING	LENGTH
L32	S3°10'46"E	39.85
L33	S3°40'36"E	71.68
L34	S86°46'54"W	16.02
L35	N3°40'36"W	4.69
L36	S86°50'41"W	15.47
L37	S3°40'36"E	20.57
L38	N86°55'23"E	56.24
L39	N3°12'54"W	17.12
L40	N3°40'36"W	36.47
L41	N86°51'19"E	0.97
L42	S3°40'36"E	16.02
L43	N86°51'19"E	55.00
L44	N3°40'36"W	14.97
L45	S86°51'19"W	1.97
L46	S3°40'36"E	25.00
L47	S86°51'19"W	2.03
L48	N3°40'36"W	15.03
L49	N86°51'19"E	88.00
L50	S3°40'36"E	20.84
L51	N87°15'53"E	14.95
L52	S3°40'36"E	37.00
L53	N87°15'53"E	13.08
L54	S3°40'36"E	18.45
L55	S3°18'51"E	16.52
L56	S87°02'16"W	144.50
L57	S2°55'36"E	16.00
L58	S87°02'16"W	8.60
L59	N3°40'36"W	34.19
L60	N86°56'02"W	141.91

CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA	TANGENT
C1	37.17'	25.00'	85°10'51"	22.98'
C2	7.85'	5.00'	90°00'00"	5.00'
C3	3.14'	2.00'	90°00'00"	2.00'
C4	6.29'	5.00'	72°05'53"	3.64'
C5	3.80'	2.00'	108°43'42"	2.79'
C6	7.03'	4.50'	89°30'14"	4.46'
C7	3.15'	2.00'	90°07'44"	2.00'
C8	7.89'	5.00'	90°22'02"	5.03'
C9	7.85'	5.00'	90°00'00"	5.00'
C10	3.13'	2.00'	89°32'29"	1.98'
C11	7.90'	5.00'	90°31'18"	5.05'
C12	3.12'	2.00'	89°28'42"	1.98'
C13	3.44'	2.00'	98°40'53"	2.33'
C14	7.06'	5.00'	80°51'24"	4.26'
C15	7.90'	5.00'	90°31'55"	5.05'
C16	3.12'	2.00'	89°28'05"	1.98'
C17	4.74'	3.00'	90°31'55"	3.03'
C18	4.68'	3.00'	89°28'05"	2.97'
C19	4.76'	3.00'	90°56'30"	3.05'
C20	7.77'	5.00'	89°03'30"	4.92'
C21	8.12'	5.00'	93°04'32"	5.28'
C22	3.05'	2.00'	87°17'14"	1.91'
C23	3.14'	2.00'	89°57'52"	2.00'
C24	7.79'	5.00'	89°17'07"	4.94'
C25	24.80'	15.00'	94°44'34"	16.30'

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 AND
CALL 1-702-432-5300
FREIGHT AND MATERIAL SYSTEM OF TRANSPORTATION

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

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LEGEND

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

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

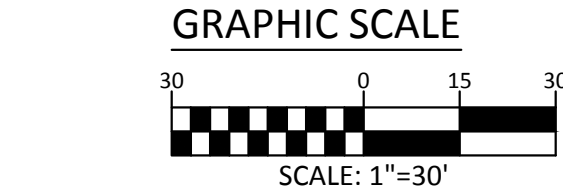
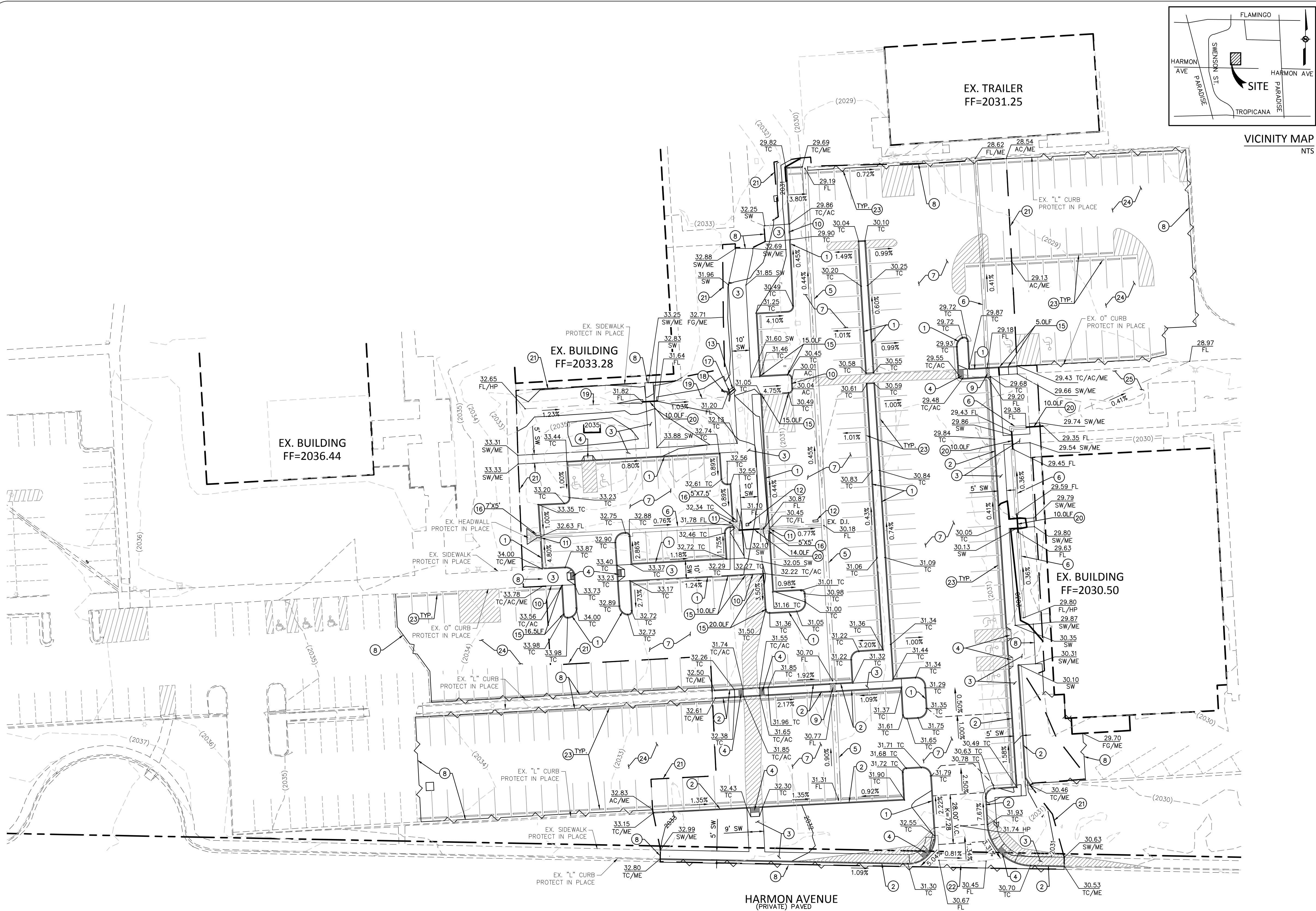
PL-RIGHT-OF-WAY
PL-ADJACENT
CENTERLINE
EASEMENT LINE
FLOW LINE
SAWCUT LINE

COLLINS ENGINEERS
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LAS VEGAS, NV 89117
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FAX: (702) 248-8070
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**UNL/VEPA PARKING LOT
@HARMON AVE.**
HORIZONTAL CONTROL 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:		5/01/2017		
SCALE:				
SHEET NUMBER				
C3.01				
SHEET 05 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	NOT USED	
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:

5/01/2017

SCALE:

SHEET NUMBER

C4.01

SHEET 06 OF 08

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

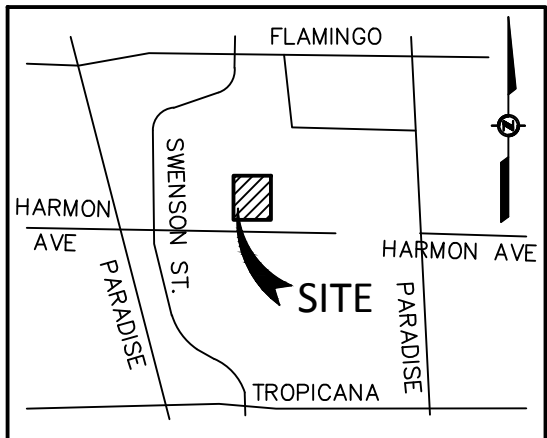
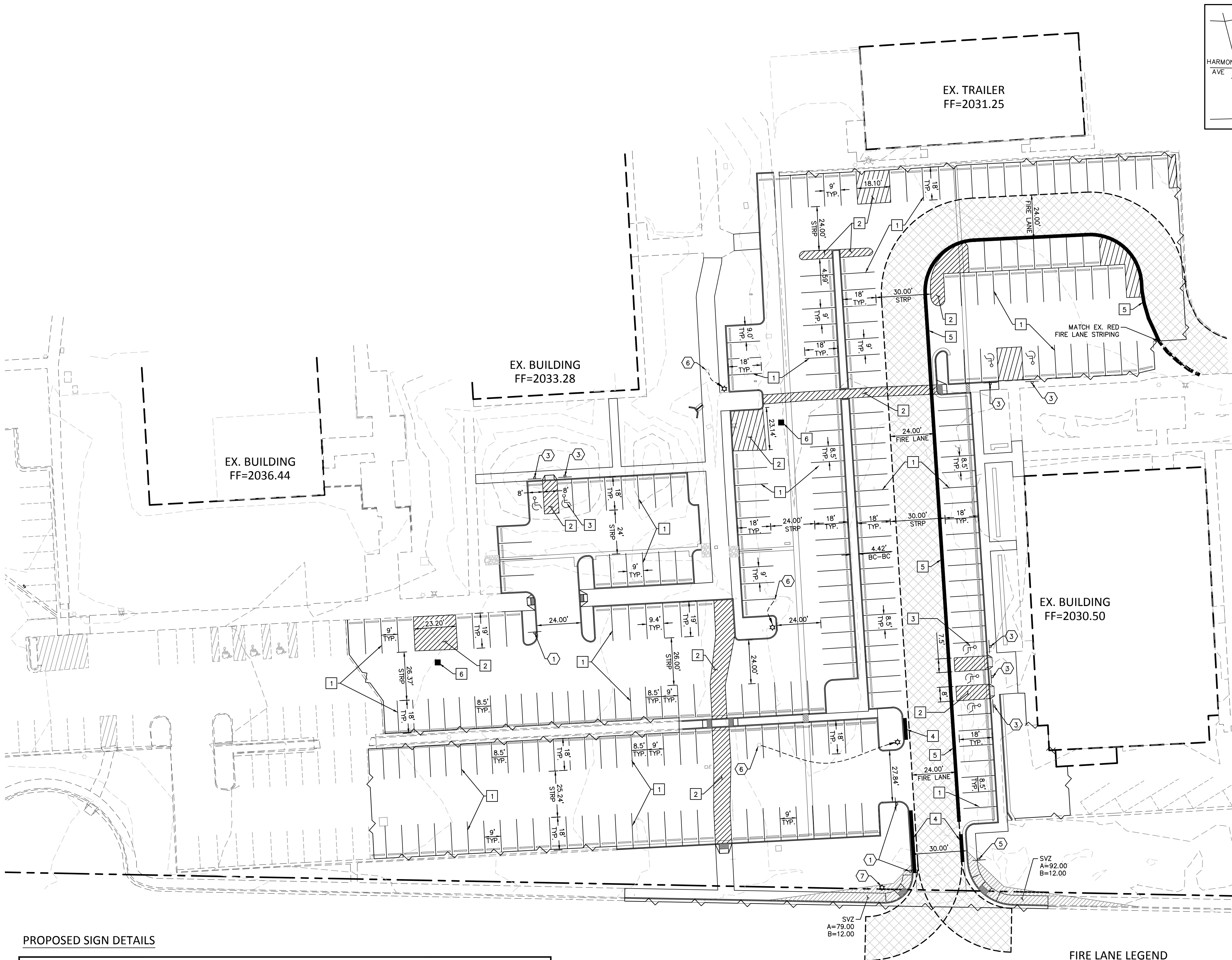
CALL BEFORE YOU DO UNDERGROUND WORK
CALL 1-702-455-7511
CLARK COUNTY PUBLIC UTILITIES AND
CALL 1-702-432-5300
FEDERAL AND NATIONAL SYSTEM OF TRANSPORTATION

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

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LEGEND

EXISTING	PROPOSED
(0.00%)	0.00% SLOPE
XX	0.00% ELEVATION TAG
⊕	STORM MANHOLE
⊖	DROP INLET
—00—	CONTOUR
—	RETAINING WALL
—	SCREEN WALL
—	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 OF 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

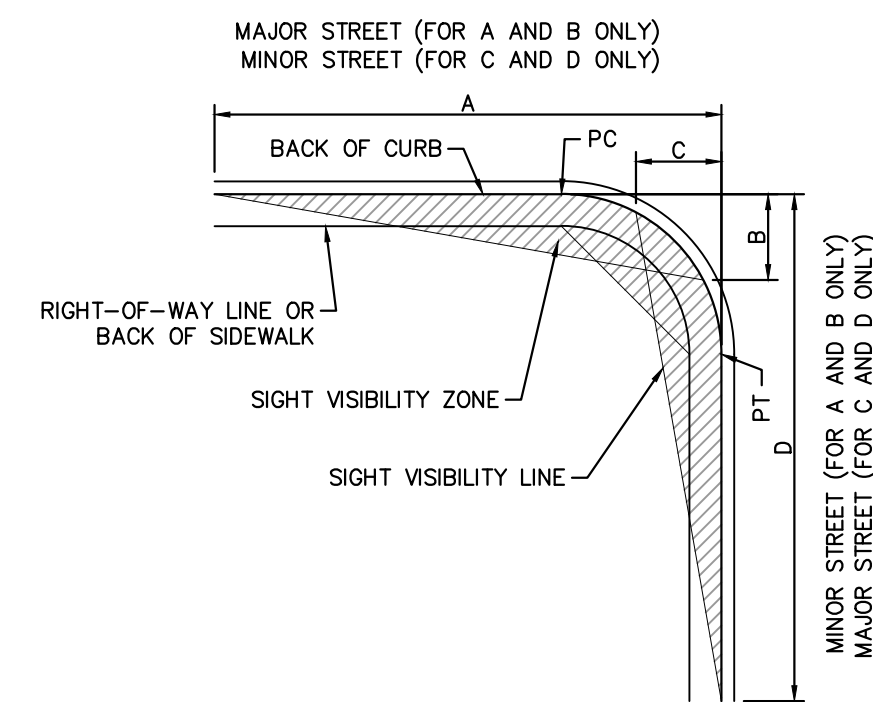
NO.	ITEM USDOCA: UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA.
1	INSTALL SIGN R1-1 (STOP) SIGN PER USDOCA NO. 249.1. SEE DETAIL 1 THIS SHEET.
2	INSTALL FIRE LANE SIGN PER USDOCA NO. 249.1. SEE DETAIL 2 THIS SHEET.
3	INSTALL SIGN R7-8A, R7-8B ADA VAN ACCESSIBLE PARKING SIGN PER USDOCA NO. 249.1. SEE DETAIL 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

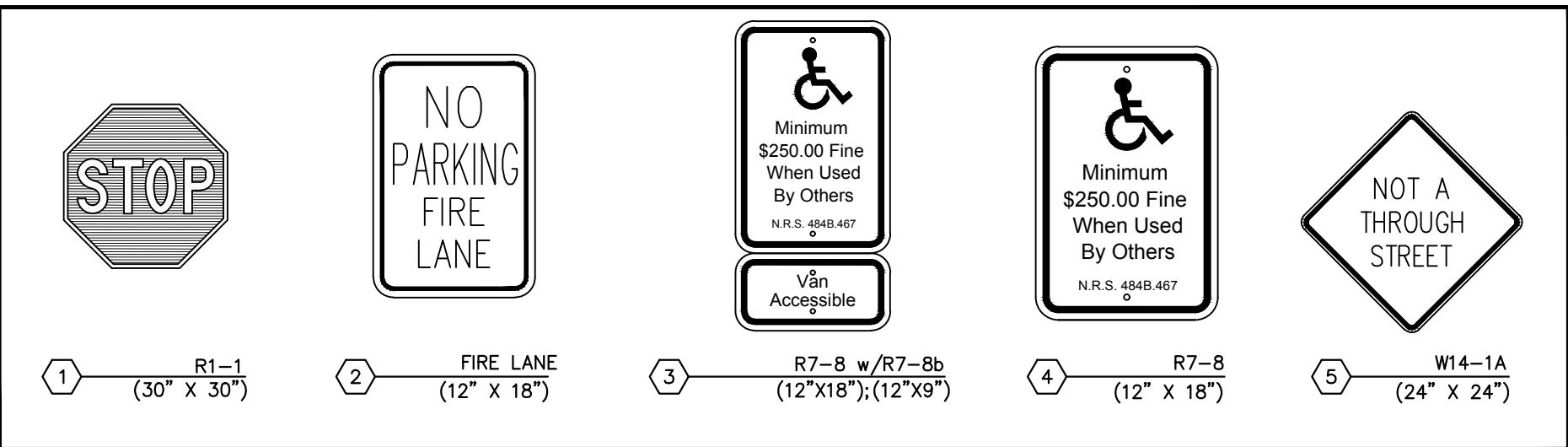
SIGHT VISIBILITY ZONE LEGEND

SHaded area indicates SIGHT VISIBILITY ZONE



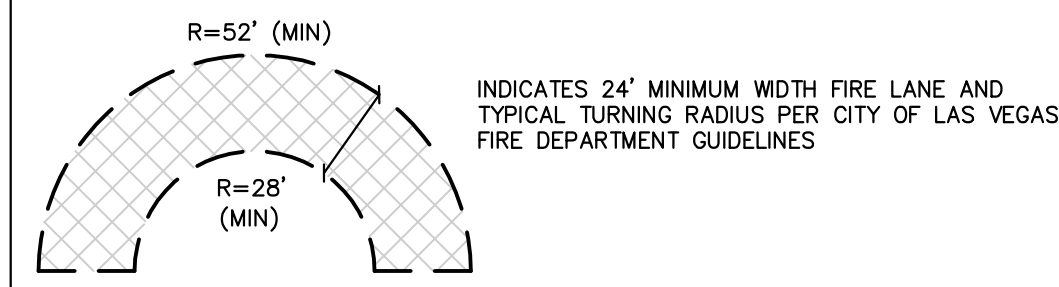
SIGHT VISIBILITY ZONE NOTE:
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PROPOSED SIGN DETAILS



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.



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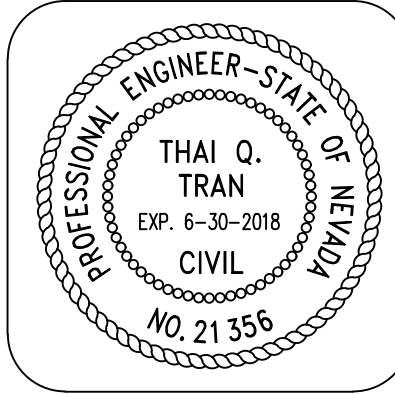
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CLARK COUNTY PUBLIC UTILITIES DEPARTMENT
CALL 1-702-432-5300
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(0.00%)	0.00% SLOPE	AC PAVEMENT	PL-RIGHT-OF-WAY
XX	0.00% ELEVATION TAG	6" TYPE "A" CURB	PL-ADJACENT CENTERLINE
XX	24" TYPE "A" CURB & GUTTER	30" ROLL CURB	EASEMENT LINE
XX	STORM MANHOLE		FLOW LINE
XX	DROP INLET		SAWCUT LINE
XX	CONTOUR		
XX	RETAINING WALL		
XX	SCREEN WALL		

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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:
5/01/2017
SCALE:

SHEET NUMBER
C6.01
SHEET 07 OF 08

NOTE:

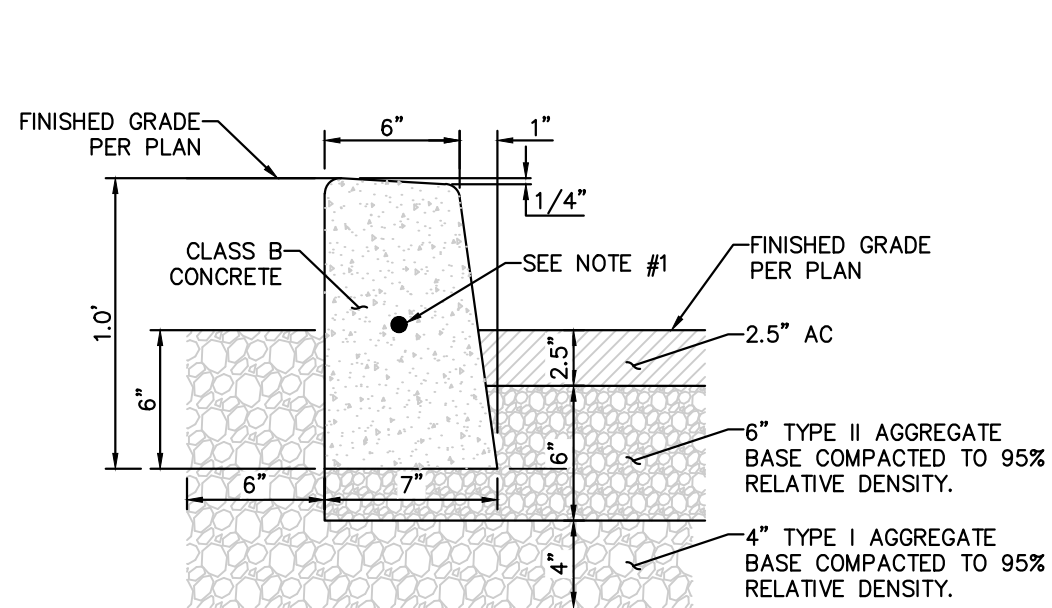
"OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED OR OBSCURED DURING CONSTRUCTION."

COUNTY OF CLARK FIRE DEPARTMENT APPROVAL

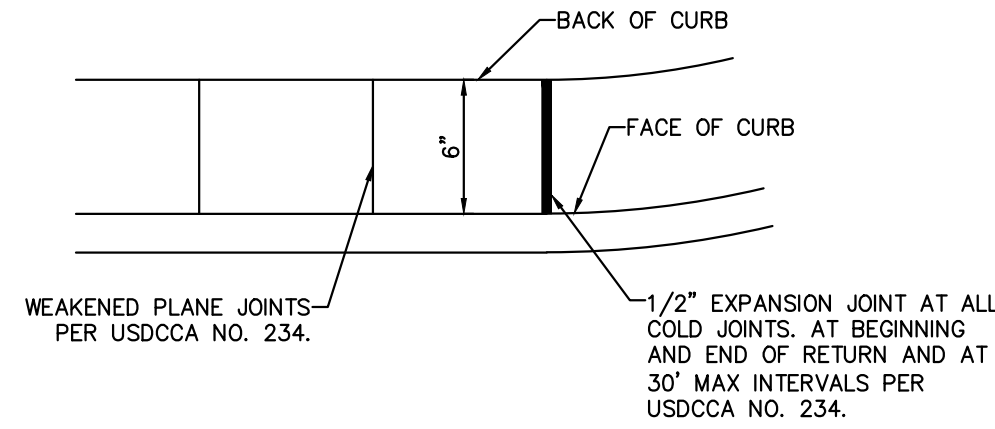
BY _____ DATE _____

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



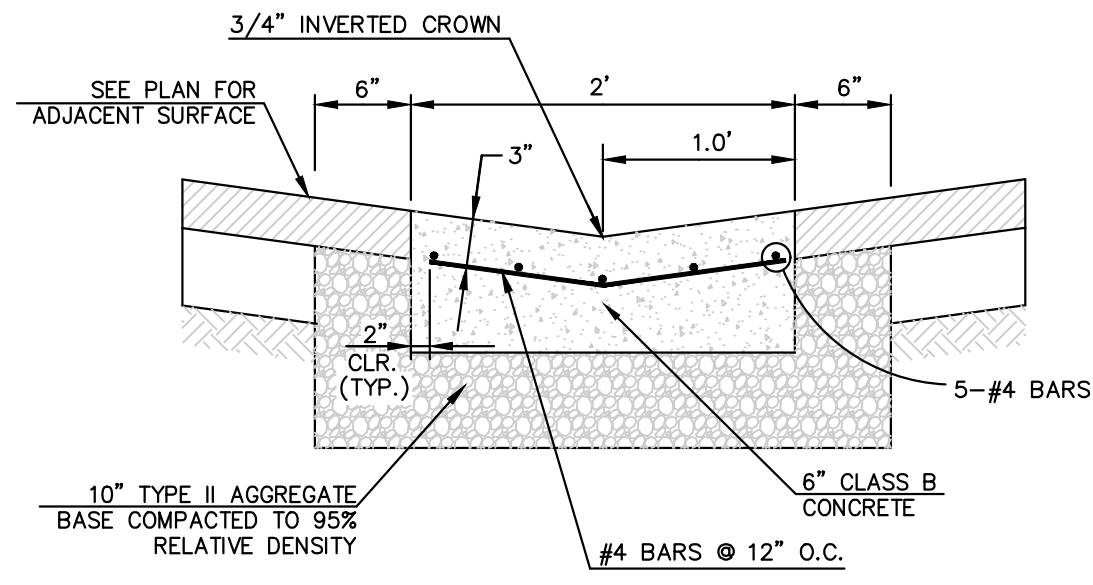
TYPE 'A' CURB SECTION



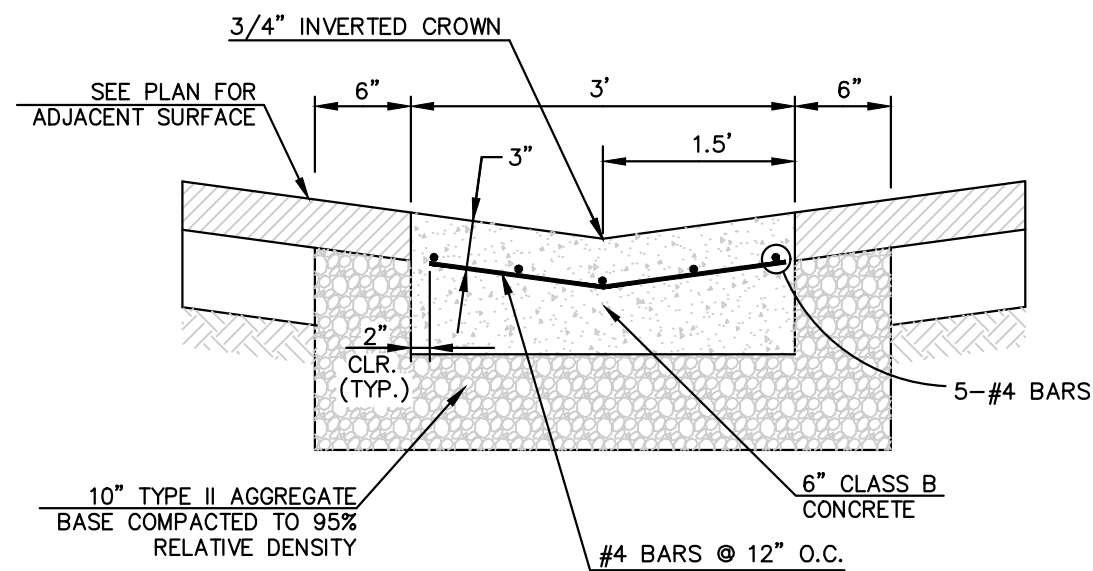
TYPICAL PLAN

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

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

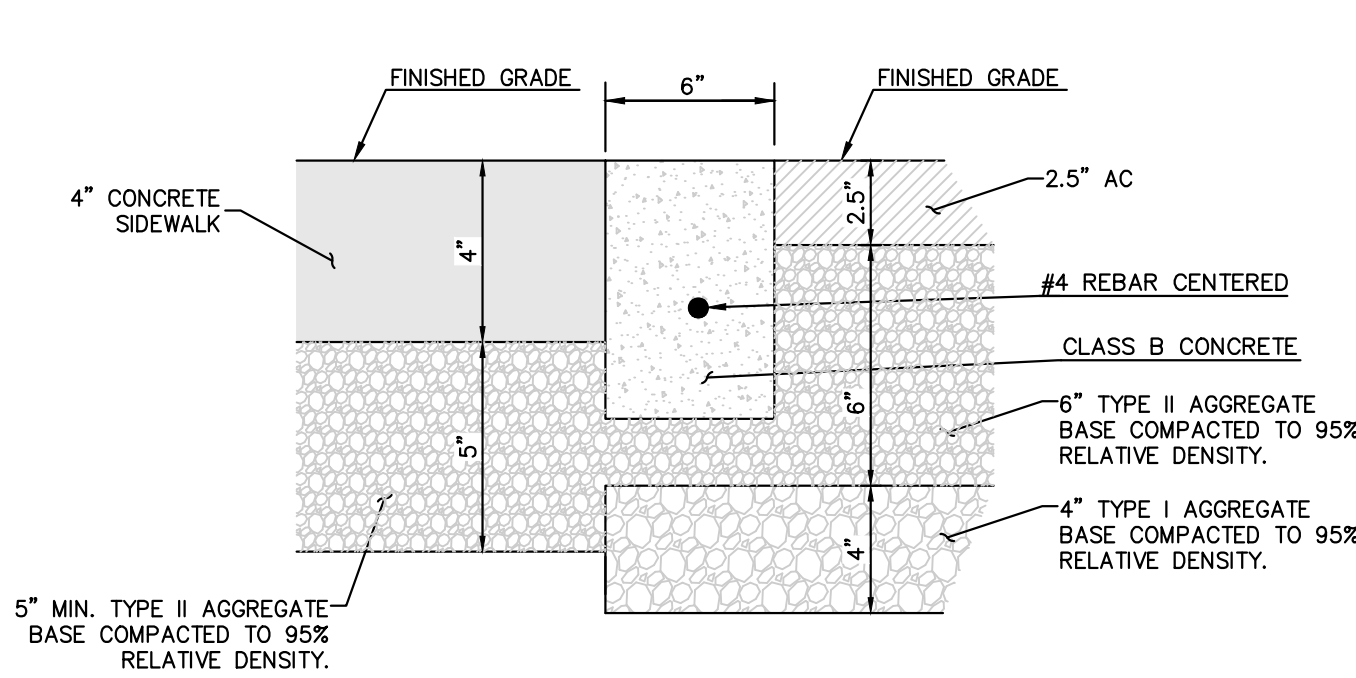


2' CONCRETE VALLEY GUTTER

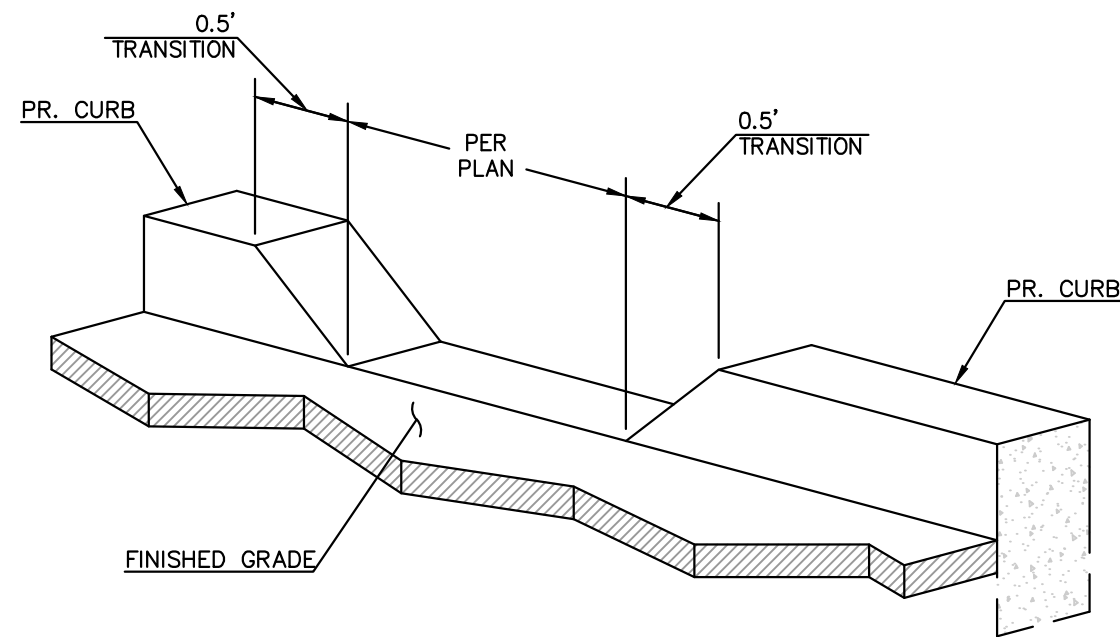


3' CONCRETE VALLEY GUTTER

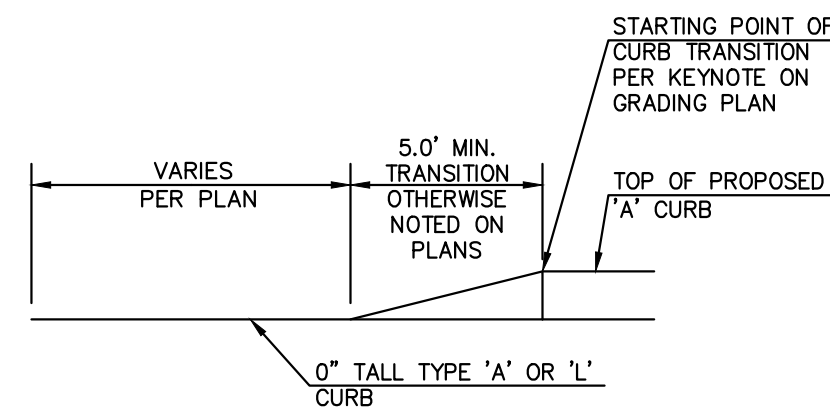
B
C8.01 CONCRETE VALLEY GUTTER DETAIL
NTS



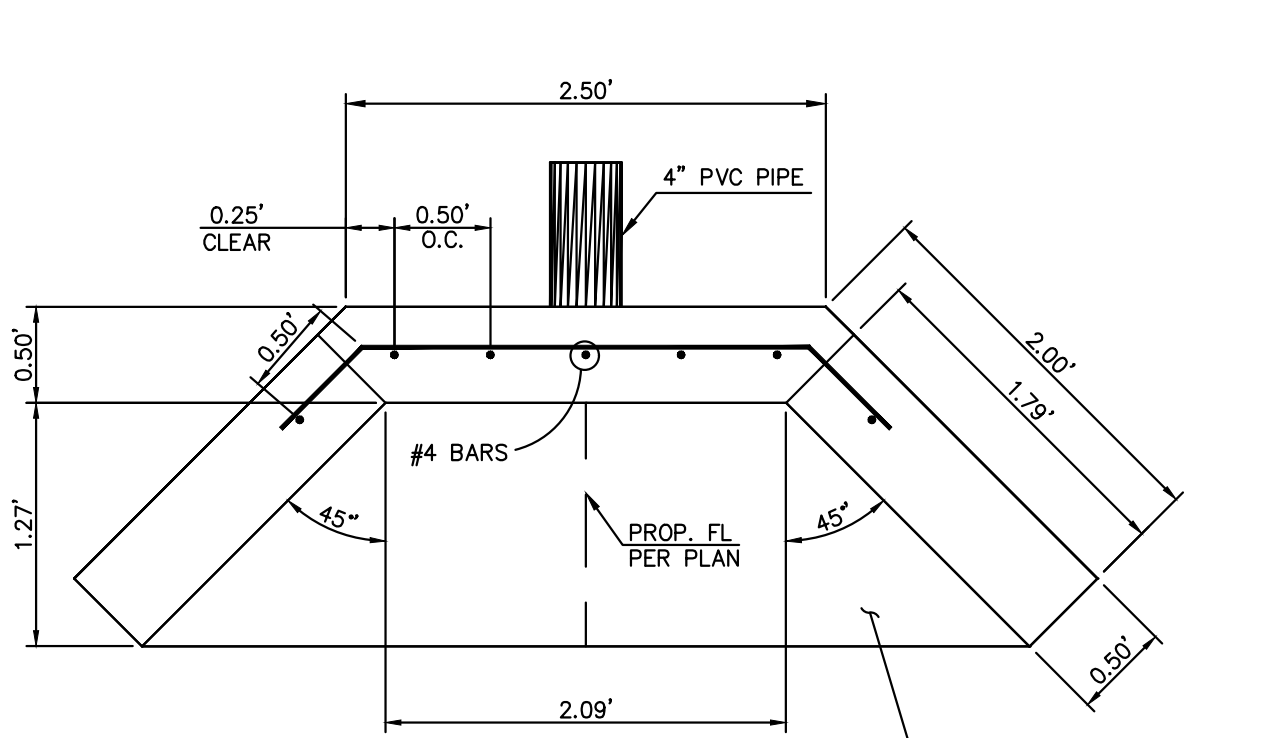
C
C8.01 0" TALL TYPE 'A' CURB
NTS



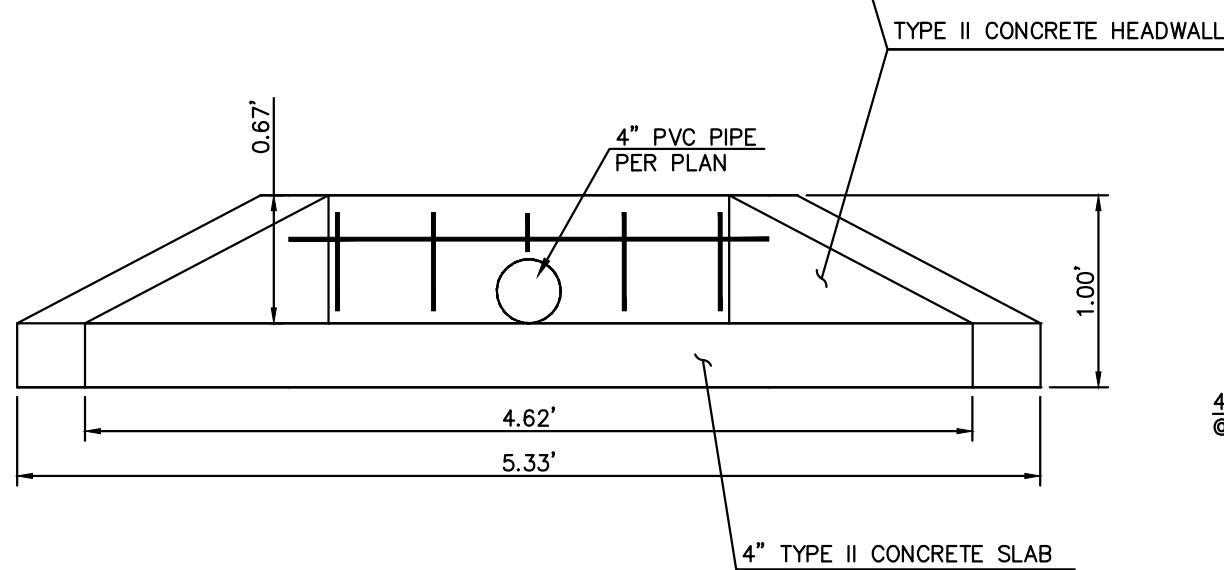
D
C8.01 CURB OPENING
(ON-SITE ONLY)
NTS



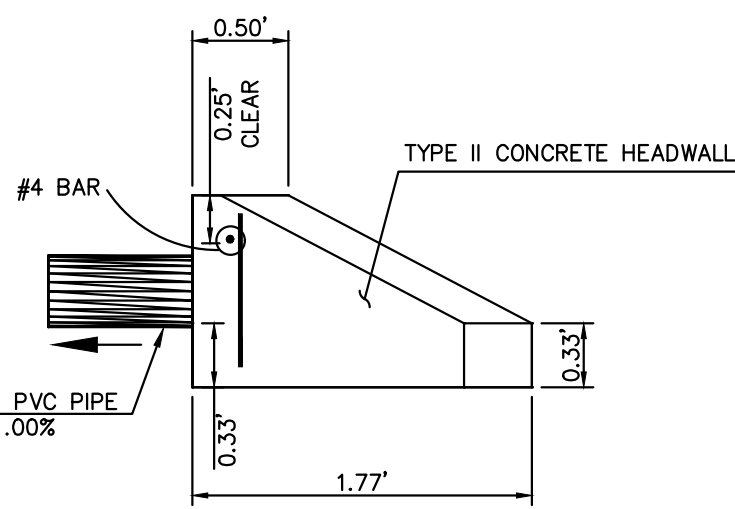
F
C8.01 ONSITE CURB TRANSITION
NTS



TOP VIEW

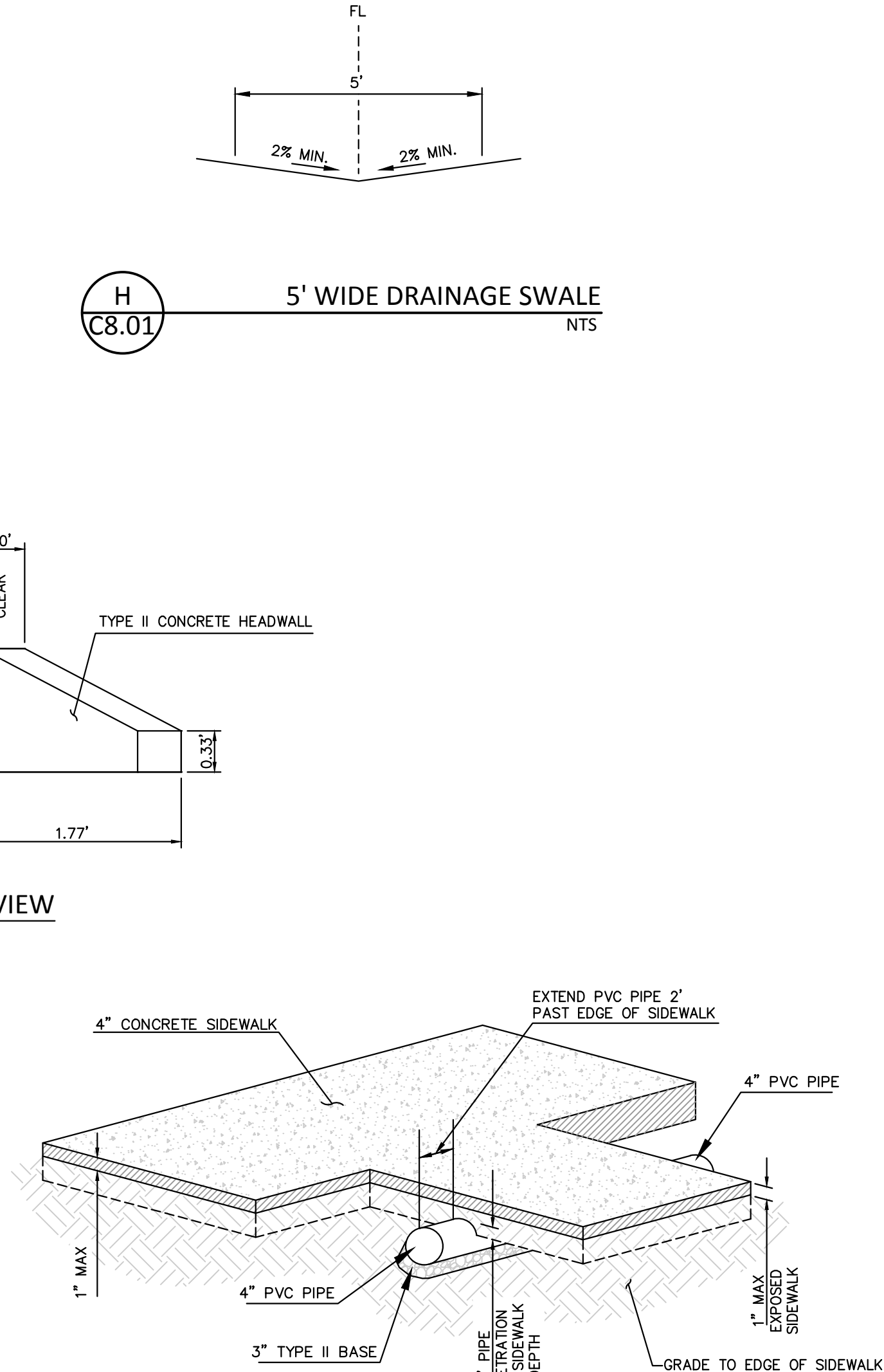


FRONT VIEW



RIGHT SIDE VIEW

G
C8.01 CONCRETE HEADWALL
NTS



J
C8.01 4" STORM DRAIN CULVERT
NTS

BASE BID

UNL/IEPA PARKING LOT
@HARMON AVE.

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

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

NO.	DATE	DESIGN BY	DESCRIPTION

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

DATE:
5/01/2017

SCALE:

SHEET NUMBER

C8.01

SHEET 08 OF 08