

CONCEPTUAL GRADING AND DRAINAGE PLAN

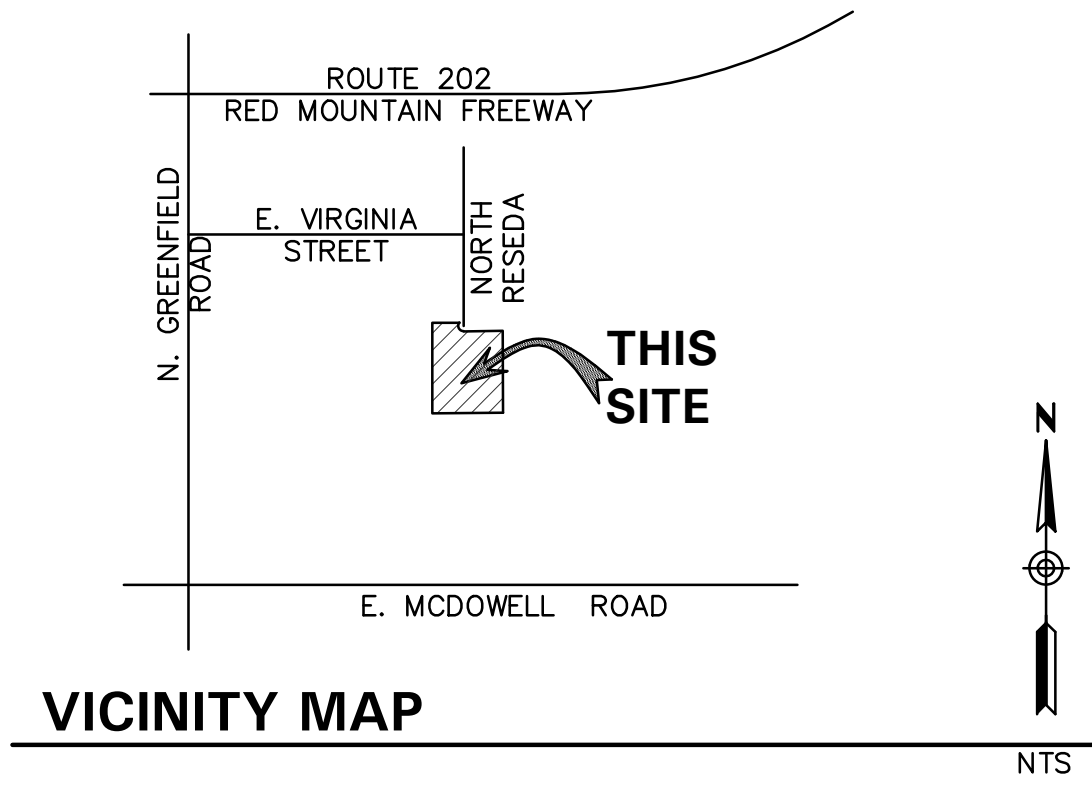
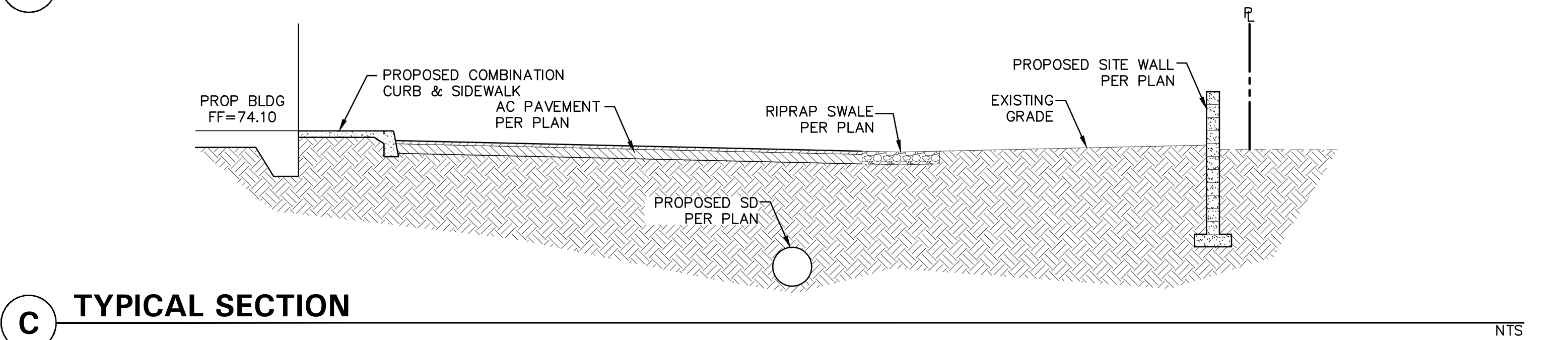
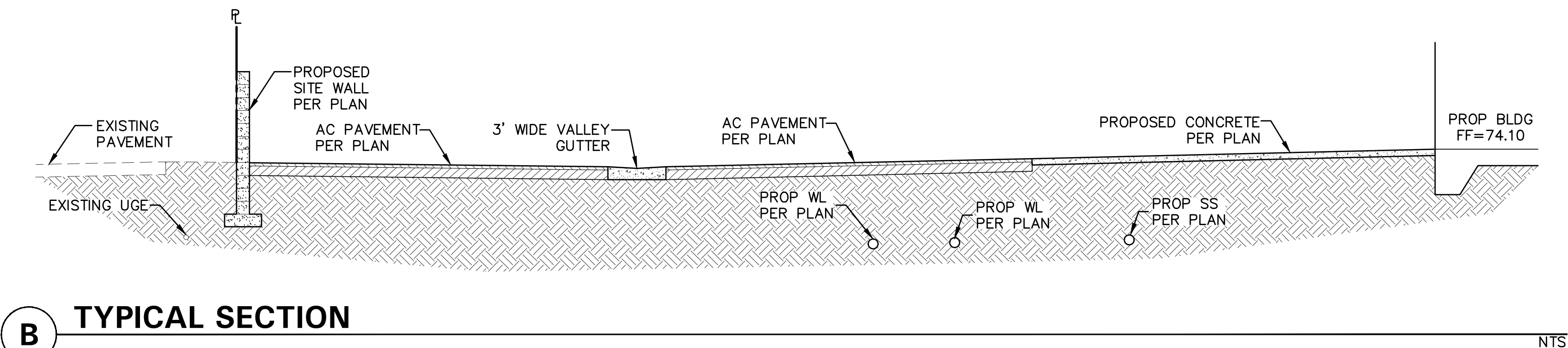
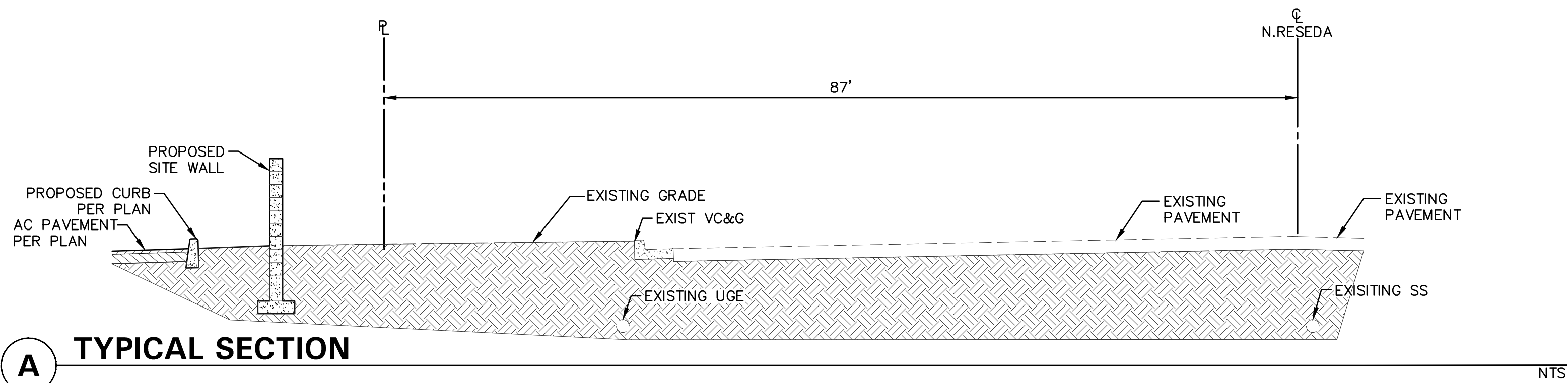
ORBITAL ATK MUNITIONS WAREHOUSE

3309 N. RESEDA
MESA, ARIZONA 85215

A PORTION OF LAND LOCATED WITHIN THE NORTHWEST QUARTER OF SECTION 34, TOWNSHIP 2 NORTH,
RANGE 6 EAST, OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.

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CONCEPTUAL GRADING AND DRAINAGE	.C2
CONCEPTUAL UTILITY PLAN	.C3



OWNER

ATK GUN SYSTEMS COMPANY, LLC
5050 LINCOLN DRIVE
EDINA, MONTANA 55436

ARCHITECT

DEUTSCH ARCHITECTURE GROUP
4600 E. INDIAN SCHOOL ROAD
PHOENIX, ARIZONA 85018
PHONE: (602) 840-2929
FAX: (602) 840-6646
CONTACT: LEO MARIN

CIVIL ENGINEER

HUNTER ENGINEERING, INC.
10450 N. 74TH STREET, SUITE #200
SCOTTSDALE, ARIZONA 85258
PHONE: (480) 991-3985
EMAIL: rshulte@hunterengineeringpc.com
CONTACT: RUSSELL SCHULTE

BASIS OF BEARING

BASIS OF BEARING FOR THIS SURVEY IS A BEARING OF NORTH 00°02'30" WEST, ALONG THE WEST LINE OF THE NORTHWEST QUARTER OF SECTION 34, TOWNSHIP 2 NORTH, RANGE 6 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA, ACCORDING TO THE PLAT OF FALCON INDUSTRIAL PARK UNIT I & II, RECORDED IN BOOK 233 OF MAPS, PAGE 12, MARICOPA COUNTY RECORDS, ARIZONA.

BENCHMARK

BRASS TAG AT THE TOP OF CURB LOCATED ON THE SOUTHWEST CORNER OF GREENFIELD ROAD AND MCDOWELL ROAD. CITY OF MESA DATUM. ELEVATION=1365.04

EXISTING LEGEND

CENTERLINE	---
RIGHT OF WAY	---
PROPERTY LINE	---
EASEMENT	---
MAJOR CONTOUR	---1175---
MINOR CONTOUR	---1170---
STORM PIPE	---SD---
WATERLINE	---W---
SANITARY SEWERLINE	---SS---
ELECTRICAL RISER	⊠
WATER METER	⊠
WATER VALVE	⊗
FIRE HYDRANT	⊗
STREET LIGHT	⊗
STORM DRAIN MANHOLE	⊗
SANITARY SEWER MANHOLE	⊗
SPOT GRADE	⊗
CONCRETE	⊗

PROPOSED LEGEND

GRADE BREAK	⊗
CONTOUR	---
PROPOSED WATER LINE	---
PROPOSED FIRE LINE	---
PROPOSED SEWER LINE	---
STORM LINE	---
CATCH BASIN	⊗
SPOT ELEVATION	⊗
FLOW ARROW	⊗
PROPERTY LINE	---
EASEMENT LINE	---
PROPOSED SECTION CALLOUT	⊗
LIGHT POLE	⊗

RETENTION CALCULATIONS (DISTURBED AREA)

DRAINAGE AREA: 5.0 AC

RETENTION REQUIRED (100YR-2HR EVENT):

TOTAL REQUIRED =37,934 CU.FT.

VR=(C)*(P/12)*(A)*(43,560)

VR= (0.90)*(2.2/12)*(5.0)*(43,560)=37,934 CU.FT.

RETENTION PROVIDED:

TEMP BASIN 1 37,942 CU.FT.

TOTAL PROVIDED 37,942 CU.FT.

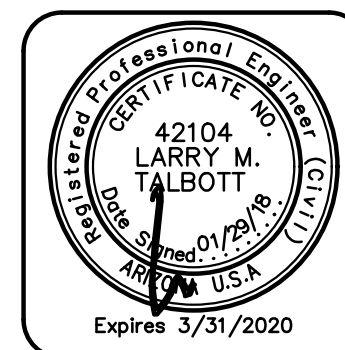
TOTAL REQUIRED 37,934 CU.FT.

TOTAL EXCESS 8 CU.FT.

NO.	DATE	REVISION	BY

DESIGN BY: LMT
DRAWN BY: MM
CHECKED BY: LMT

HUNTER ENGINEERING
10450 NORTH 74TH STREET, SUITE 200
SCOTTSDALE, ARIZONA 85258
T 480 991 3985
F 480 991 3986



CONCEPTUAL COVER SHEET
FOR
ORBITAL ATK MUNITIONS WAREHOUSE
3309 N. RESEDA
MESA, ARIZONA 85215

CONTACT ARIZONA.BIT AT LEAST 2 FULL
WORKING DAYS BEFORE YOU BEGIN EXCAVATION
ARIZONA.BIT
CALL 811 OR CLICK ARIZONA.BIT.COM

THESE PLANS ARE
NOT APPROVED FOR
CONSTRUCTION
WITHOUT AN
APPROVED SIGNATURE
FROM THE GOVERNING
MUNICIPALITY.

PROJECT NAME:
ORBITAL ATK
MUNITIONS
WAREHOUSE

HE NO.: DEUT036
SCALE: 1"=30'

SHEET:
C1

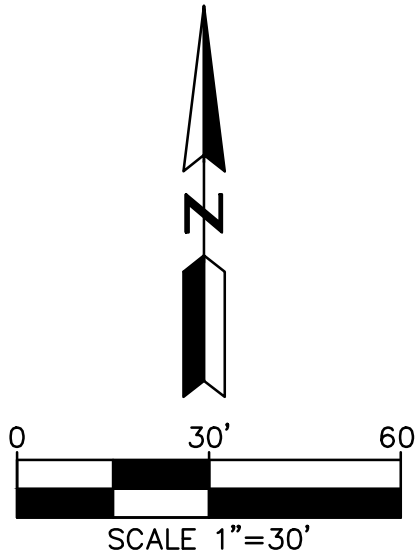
E. VIRGINIA STREET

N. RESEDA

EXISTING BUILDING
FF=74.10±

PROPOSED BUILDING
FF=74.10

EXISTING BUILDING
FF=73.40



MATCH LINE SEE LOWER LEFT

MATCH LINE SEE UPPER RIGHT

TEMP BASIN #1
HW=70.40
BOT=69.40
VR=37,934 CF
VP=37,942 CF

TEMP BASIN #1
HW=70.40
BOT=69.40
VR=37,934 CF
VP=37,942 CF

NO.	DATE	REVISION	BY

PURPOSE:
1ST CONCEPT SUBMITTAL

DESIGN BY: LMT
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HUNTER
ENGINEERING
10450 NORTH 74TH STREET,
SUITE 200
SCOTTSDALE, AZ 85258
F 480 981 3986



CONCEPTUAL GRADING AND DRAINAGE PLAN
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3309 N. RESEDA
MESA, ARIZONA 85215

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PROJECT NAME:
ORBITAL ATK
MUNITIONS
WAREHOUSE

HE NO.: DEUT036
SCALE: 1"=30'

SHEET:
C2

E. VIRGINIA STREET

EX SS MH
RIM=75.70
IE=67.40 (W)
IE=67.49 (NE)
IE=67.43 (S)

EX SS MH
RIM=73.88
IE=68.92 (N,S)
IE=77.78 (S,S)

APN 141-37-004Z
MCDONNELL DOUGLAS HELICOPTER CO.
DEED NO. 91053363 M.C.R

FND. IRON BAR
W/CAP NO I.D.
BENT

N89°27'44"E 285.56'

R=55.00'
L=124.32'
D=129°30'41.00"

N. RESEDA

APN 141-37-004V
MCDONNELL FALCON FIELD BUSINESS PARK LLC.
DEED NO. 0507113210 M.C.R

N89°27'44"E 406.95'

EX 2" WM TO BE REMOVED BY
CITY FORCES & REPLACED W/
TWO 2" METERS IN MANIFOLD
EX FIRE LINE BF
CONNECT TO
EXISTING FIRELINE

EX DETECTOR
VAULT

EX LANDSCAPE BFP

EX. SS LIFT STATION
TO BE ANALYZED FOR CAPACITY
AND/OR NEW PUMPS.
NEW LIFT STATION
TO BE INSTALLED
W/FORCE MAIN
TO PUBLIC MANHOLE IF NEEDED.

EXISTING
BUILDING
FF=74.10±

EX SS MH
RIM=73.92
IE=68.91

APN 141-37-054
ATK GUN SYSTEMS COMPANY LLC
DEED NO. 020599299 M.C.R

PROPOSED BUILDING
FF=74.10

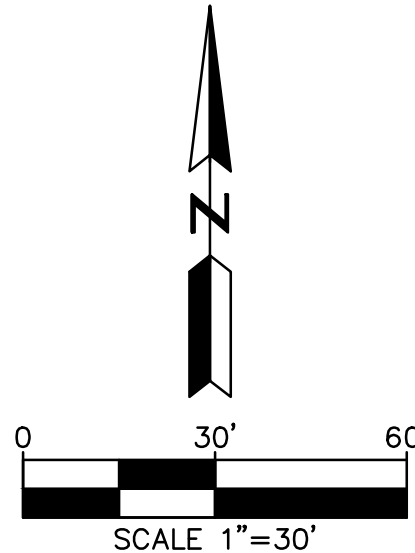
SEWER
DOMESTIC

PROPOSED FDC
FIRE
PROPOSED PIV
W/TAMPER SWITCH

EXISTING
BUILDING
FF=73.40±

EX FDC

APN 141-37-001H
HIGLEY AND ASSOCIATES INC.
DEED NO. 120960949 M.C.R



NO.	DATE	REVISION	BY

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SUITE 200
SCOTTSDALE, AZ 85258
T 480 991 3986
F 480 991 3986
CIVIL AND SURVEY



CONCEPTUAL UTILITY PLAN
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MUNITIONS
WAREHOUSE

HE NO.: DEUT036
SCALE: 1"=30'

SHEET:
C3