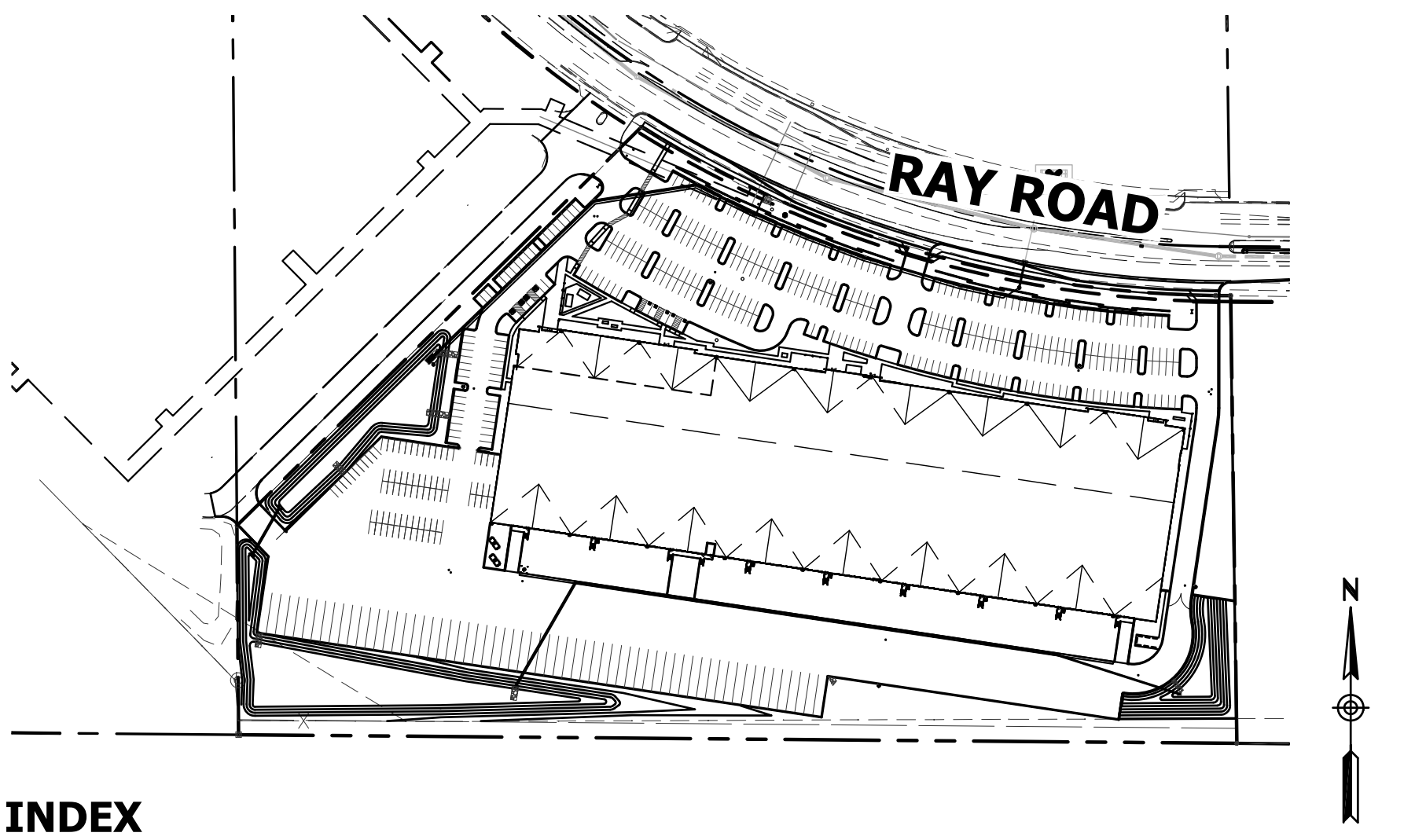


CONCEPTUAL GRADING, DRAINAGE AND UTILITY PLAN
FOR
PROJECT EDISON
EAST RAY ROAD
MESA, ARIZONA

A PORTION OF THE EAST HALF OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 1 SOUTH,
RANGE 7 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.



MAP INDEX

SHEET INDEX

COVER SHEET.	C1
CONCEPTUAL GRADING AND DRAINAGE PLANS	C2
CONCEPTUAL UTILITY PLANS.	C3

EXISTING LEGEND

RIGHT OF WAY	---
PROPERTY LINE	---
CENTERLINE	---
EASEMENT LINE	---
WATER LINE	---
WATER LINE	---
SANITARY SEWER LINE	---
SPOT ELEVATION	+1349.16
FIRE HYDRANT	⊙
WATER VALVE	⊙
IRRIGATION CONTROL VALVE	⊙
SANITARY SEWER MANHOLE	⊙
SANITARY SEWER CLEANOUT	⊙
SIGN	⊙
LIGHT POLE	⊙
ELECTRICAL RISER	⊙
ELECTRICAL CABINET	⊙

PROPOSED LEGEND

DIRECTION OF SLOPE	SS
SEWER LINE	W
WATER LINE	---
FIRE LINE	---
EASEMENT	---
SAWCUT	---
GRADE BREAK	---
CATCH BASIN	---
DRYWELL	---
SPOT ELEVATION	90.50P
SECTION C/CALLOUT	---
FLOW LINE	---
BACKFLOW PREVENTOR	---
TAPPING SLEEVE & VALVE	---
SANITARY SEWER CLEANOUT	---
U.G.R.T.	---

OWNER

MARWEST ENTERPRISES, LLC
6710 N. SCOTTSDALE RD 140
SCOTTSDALE, ARIZONA 85253
CONTACT: DAVID MARTENS, JD/MBA
PHONE: (602) 390-5403

ARCHITECT

WARE MALCOMB
8181 N VIA DE NEGOCIO
SCOTTSDALE, ARIZONA 85258
PHONE: (480) 800-5291
PHONE: (480) 767-1001
CONTACT: ERIC ZITNY, AIA
EMAIL: EZITNY@WAREMALCOMB.COM

CIVIL ENGINEER

HUNTER ENGINEERING, INC.
10450 N. 74TH STREET, SUITE #200
SCOTTSDALE, ARIZONA 85258
PHONE: (480) 991-3985
CONTACT: LARRY TALBOTT, PE
EMAIL: LTALBOTT@HUNTERENGINEERINGPC.COM

RETENTION CALCULATIONS

SITE AREA: 18.596± AC

RETENTION REQUIRED:

$V_R = (C) * (P/12) * (A) * P = 2.2$

$V_R = (0.90) * (2.2/12) * (18.595)$

TOTAL REQUIRED = 133,651 CU.FT.

RETENTION PROVIDED:

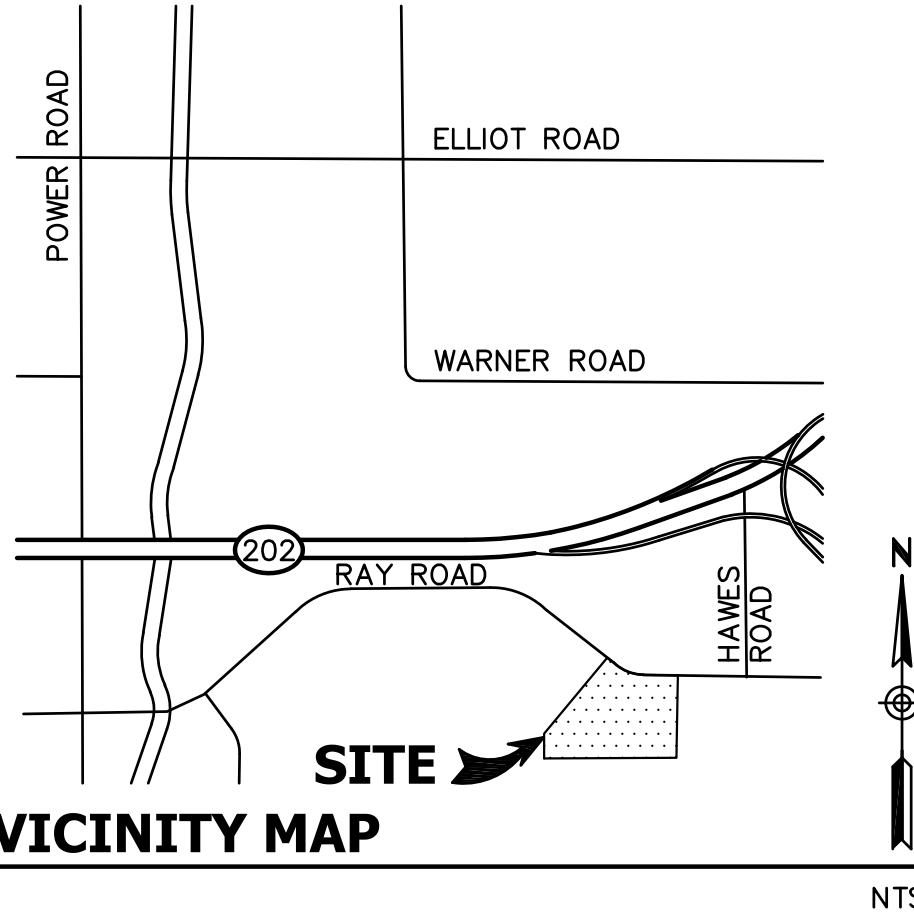
BASIN 1.	37,822 CF
BASIN 2.	82,881 CF
BASIN 3.	13,293 CF

TOTAL PROVIDED: 133,996 CF

RETENTION TOTALS:

TOTAL REQUIRED	133,651 CF
TOTAL PROVIDED	133,996 CF
TOTAL EXCESS	344 CF

*NOTE: PROPOSED PUMP STATION WILL DE-WATER THE BASIN
WITHIN THE REQUIRED 36 HOURS.



VICINITY MAP

APN #

304-30-071

BENCHMARK

CITY OF MESA BRASS TAG ON TOP OF CURB AT THE
NORTHEAST CORNER OF HWY 202 FREEWAY AND POWER ROAD.
ELEVATION= 1324.10 (CITY OF MESA NAVD88 DATUM)

ONSITE BENCHMARK #1:

IRON BAR IN MEDIAN OF RAY ROAD, 1600'± WEST OF
PROPERTY. ELEVATION= 1346.71.

ONSITE BENCHMARK #2:

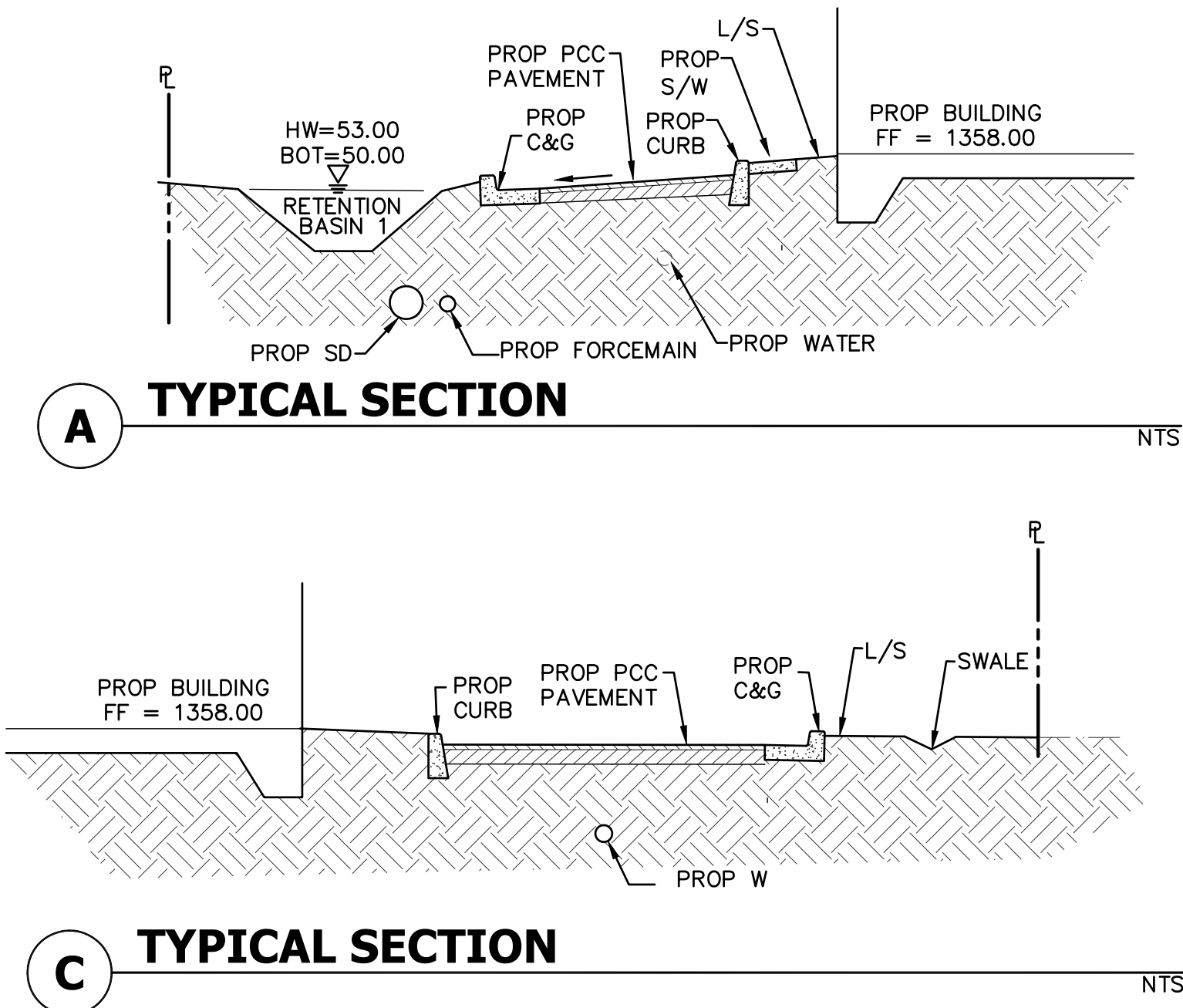
NORTH BOLT ON FIRE HYDRANT WITH TAG STAMPED "BURY".
ELEVATION= 1354.88.

BASIS OF BEARING

BASIS OF BEARING FOR THIS SURVEY IS A BEARING OF NORTH
00°58'06" WEST ALONG THE WEST LINE OF THE SOUTHWEST
QUARTER OF SECTION 20, T.1N., R.7E. OF THE GILA AND SALT
RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA,
ACCORDING TO THE PLAT OF RECORD OF SURVEY, RECORDED
IN BOOK 880, PAGE 10, MARICOPA COUNTY RECORDS,
ARIZONA.

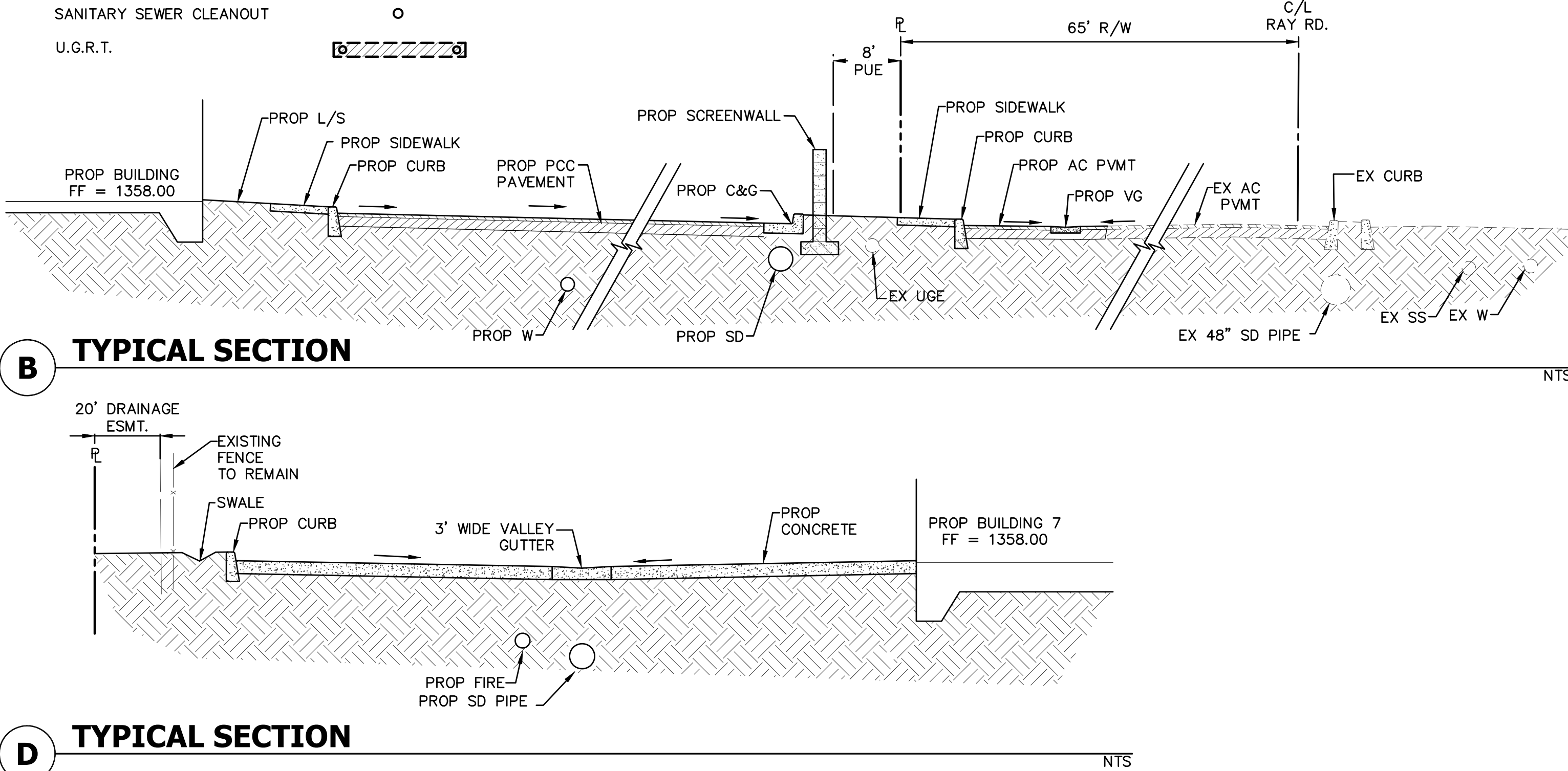
SITE ACREAGE

LOT 1 18.595 AC.± OR 810,008 SQ. FT.



TYPICAL SECTION

TYPICAL SECTION



TYPICAL SECTION

TYPICAL SECTION

COVER SHEET
FOR
PROJECT EDISON
EAST RAY ROAD
MESA, ARIZONA

CONTACT ARIZONA 811 AT LEAST 2 FULL
WORKING DAYS BEFORE YOU BEGIN EXCAVATION
AR ZONAS11
CALL 811 OR CLICK ARZONAS11.COM

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

PROJECT NAME:
PROJECT
EDISON

HE NO.: MARW009
SCALE: N.T.S.

SHEET:
C1

