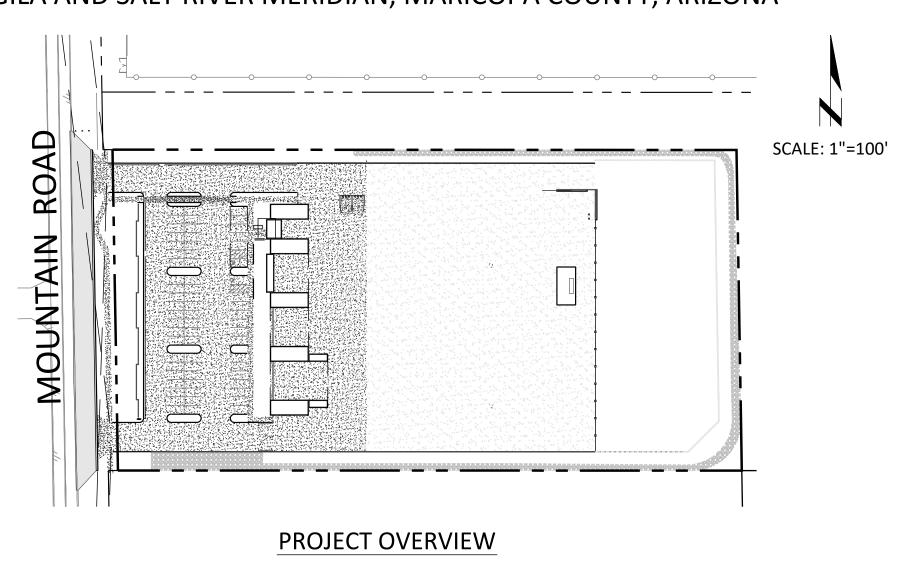
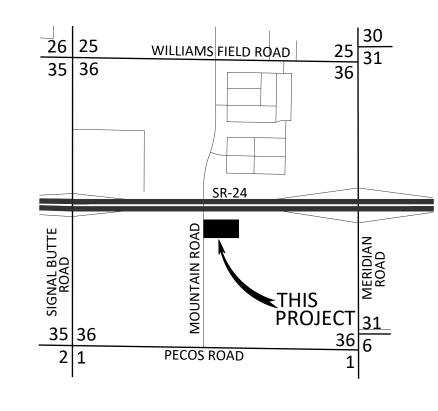
PRELIMINARY IMPROVEMENT PLAN for THE WALL COMPANY - MOUNTAIN ROAD

6447 SOUTH MOUNTAIN ROAD MESA, ARIZONA

A PORTION NORTHWEST QUARTER OF SECTION 36, TOWNSHIP 1 SOUTH, RANGE 7 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA





IN THE NW 1/4 OF THE SE 1/4 OF SECTION 36 T. 1 S., R. 7 E., G.&S.R.M.,

LOCATION MAP

3" = 1 MILE

PROJECT INFORMATION

THE PROJECT CONSISTS OF THE CONSTRUCTION OF A NEW SINGLE-STORY BUILDING WITH ALL REQUIRED GRADING & DRAINAGE, UTILITY AND PAVING IMPROVEMENTS.

ADDRESS: 6447 SOUTH MOUNTAIN ROAD MESA, ARIZONA 85212

APN: 304-34-928A

ZONING:

NET: 217,079 SF (4.98 AC) DISTURBED: 231,273 SF (5.31 AC)

SURVEY NOTES

- THE SURVEY FOR THIS PROJECT WAS PERFORMED BY: ALLIANCE LAND SURVEYING, LLC 7900 NORTH 70TH AVENUE, SUITE 104 GLENDALE, ARIZONA 85303 PH: 623-972-2200
- THE BASIS OF BEARINGS FOR THIS PROJECT IS THE MONUMENT LINE OF PECOS ROAD, USING A BEARING OF NORTH 89°58'10" EAST, PER THE DEED RECORDED IN RECORDING NUMBER 2007-0057119.
- . THE BASIS OF ELEVATION FOR THIS PROJECT IS THE BENCHMARK NGS MONUMENT "2C01" LOCATED NEAR THE INTERSECTION OF PECOS ROAD AND MERIDIAN ROAD. THE MONUMENT HAS AN ELEVATION OF 1.442.559 NAVD88 DATUM, PER THE "MCDOT SURVEY PRIMARY CONTROL DATA SHEET" AVAILABLE

BENCHMARK

THE BENCHMARK USED FOR THIS PLAN IS THE BENCHMARK NGS MONUMENT "2C01" LOCATED NEAR THE INTERSECTION OF PECOS ROAD AND MERIDIAN ROAD. THE MONUMENT HAS AN ELEVATION OF 1,442.559 NAVD88 DATUM, PER THE "MCDOT SURVEY PRIMARY CONTROL DATA SHEET" AVAILABLE ONLINE.

LEGAL DESCRIPTION

THAT PORTION OF THE SOUTH HALF OF SECTION 36. TOWNSHIP 1 SOUTH. RANGE 7 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY ARIZONA. DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SAID SECTION 36 THENCE NORTH 89°58'10" EAST ALONG THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 36, A DISTANCE OF 2419.61 FEET TO THE CENTERLINE OF MOUNTAIN VIEW ROAD AS DESCRIBED IN RECORDING NO. 90-265473, RECORDS OF

MARICOPA COUNTY, ARIZONA; THENCE NORTH 00°58'00" WEST, ALONG THE CENTERLINE OF SAID MOUNTAIN VIEW ROAD, 1984.07 FEET TO THE NORTHWEST CORNER OF THAT CERTAIN PROPERTY DESCRIBED IN RECORDING NO. 96-373402, RECORDS OF MARICOPA COUNTY,

THENCE SOUTH 89°59'26" EAST, ALONG THE NORTH LINE OF SAID PROPERTY 45.01 FEET TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF MOUNTAIN VIEW ROAD AS DESCRIBED IN RECORDING NO. 90-265473, RECORDS OF MARICOPA COUNTY, ARIZONA, AND THE POINT OF BEGINNING;

THENCE NORTH 00°58'00" WEST ALONG SAID RIGHT-OF-WAY, 394.23 FEET TO THE SOUTHWEST CORNER OF THAT CERTAIN PROPERTY DESCRIBED IN RECORDING NO. 2006-901168, RECORDS OF MARICOPA COUNTY, ARIZONA;

THENCE ALONG THE SOUTH LINE LAST SAID PARCEL, SOUTH 89°58'04" EAST, A DISTANCE OF 1051.89 FEET TO THE SOUTHEAST CORNER OF SAID PARCEL; THENCE SOUTH 01°02'42" EAST, A DISTANCE OF 393.82 FEET TO THE NORTHEAST CORNER OF SAID PROPERTY DESCRIBED IN RECORDING NO. 96-373402, RECORDS OF MARICOPA COUNTY, ARIZONA; THENCE NORTH 89°59'26" WEST ALONG THE NORTH LINE OF LAST SAID PROPERTY

EXCEPT THE FOLLOWING DESCRIBED PROPERTY:

1052.36 FEET TO THE POINT OF BEGINNING;

THAT PORTION OF THE SOUTH HALF OF SECTION 36, TOWNSHIP 1 SOUTH, RANGE 7 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA, BEING MORE PARTICULAR DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SAID SECTION 36 THENCE NORTH 89°58'10" EAST, ALONG THE SOUTH LINE OF SAID SECTION 36, A DISTANCE OF 2419.61 FEET TO THE INTERSECTION OF THE CENTERLINE OF MOUNTAIN VIEW ROAD AS DESCRIBED IN RECORDING NO. 96-373402, BEING THE CENTERLINE OF A 110.00 FOOT WIDE STRIP, BEING 55.00 FEET ON EACH SIDE OF SAID CENTERLINE, AS MEASURED AT RIGHT ANGLES PER EXHIBIT "A" MARICOPA COUNTY HIGHWAY DEPARTMENT NO. 65623;

THENCE NORTH 00°58'00" WEST, ALONG SAID CENTERLINE 2,378.25 FEET TO THE NORTHERLY LINE OF PARCEL "E" AS SHOWN ON SURVEY MAP OF PINNACLE ENGINEERING, INC., JOB NO. 86-P118;

THENCE SOUTH 89°58'04" EAST, ALONG SAID NORTHERLY LINE 45.01 FEET TO THE EAST RIGHT-OF-WAY LINE OF SAID MOUNTAIN VIEW ROAD AS DESCRIBED IN RECORDING NO. 90-265473 AND IN RECORDING NO. 90-270665 AND THE POINT OF THENCE SOUTH 89°58'04" EAST, CONTINUING ALONG SAID NORTHERLY LINE

1,051.83 FEET TO THE NORTHEAST CORNER OF SAID PARCEL "E"; THENCE SOUTH 01°03'30" EAST, ALONG THE EAST LINE OF SAID PARCEL "E" 1,402.20 FEET TO A POINT WHICH BEARS FORTH 01°03'59" WEST 974.88 FEET FROM THE SOUTH LINE OF SAID SECTION 36;

THENCE SOUTH 89°59'55" WEST, 394.57 FEET; THENCE NORTH 00°57'10" WEST, 1,342.38 FEET;

152 OF DEEDS, PAGE 119.

THENCE NORTH 89°58'04" WEST, 659.82 FEET TO THE EAST RIGHT-OF-WAY LINE OF SAID MOUNTAIN VIEW ROAD: THENCE NORTH 00°58'00" WEST, ALONG SAID RIGHT-OF-WAY, 60.01 FEET TO THE POINT OF BEGINNING:

EXCEPT ALL MINERALS, ORES AND METALS OF EVERY KIND AND CHARACTER, AND ALL COAL, ASPHALTUM, OIL, GASES, FERTILIZERS, FOSSILS AND OTHER LIKE SUBSTANCES IN OR UNDER SAID LAND AS RESERVED TO THE STATE OF ARIZONA IN PATENT(S) RECORDED IN BOOK 147 OF DEEDS, PAGE 283 AND RECORDED IN BOOK

(NOTE: THE EXCEPTION AREA SHOWN IN THE TITLE COMMITMENT AND IN DEED 2008-1030437, M.C.R. CONTAIN A TYPOGRAPHICALLY ERROR AND THE DESCRIPTION SHOWN HEREON HAS BEEN CORRECTED TO READ "THENCE NORTH 89 DEGREES 58 MINUTES 10 SECONDS EAST, ALONG THE SOUTH LINE OF SAID SECTION 36....")

PROJECT RETENTION

REQUIRED RETENTION (100-YEAR, 2-HOUR)

 $V = Cw \times (d/12) \times A$

OFFSITE MOUNTAIN ROAD + ONSITE BASIN 1 AT FRONTAGE: $V = 0.76 \times (2.21/12) \times 20,745 \text{ SF}$ V = 2,904 CF

 $Cw = (0.5 \times 47,468 \text{ SF}) + (0.85 \times 71,844) + (0.95 \times 67,930) / 187,242 \text{ SF}$ Cw = 0.80

 $V = 0.80 \times (2.21/12) \times 187,242 \text{ SF}$ V = 27,587 CF

TOTAL REQUIRED RETENTION: 2,904 + 27,587 = 30,491 CF

31,085 CF VIA TWO NEW SURFACE RETENTION BASINS (2,195 CF IN BASIN 1 + 28,890 IN BASIN 2), WHICH SHALL BE EQUALIZED WITH THE SAME HIGHWATER ELEVATION. THEY SHALL DRAIN TOGETHER VIA TWO OR THREE NEW DRYWELLS. SHOULD STORM DRAIN BE CONSTRUCTED WITHIN MOUNTAIN ROAD IN THE FUTURE, THE DRYWELLS SHALL BE REMOVED AND THE BASIN SHALL BE CONNECTED TO DRAIN TO THE PUBLIC STORM DRAIN.

DRYWELL CALCULATIONS

TOTAL VOLUME = 30,491 CF*

*EXCLUDES 1 FOOT DEEP SURFACE BASIN ALONG MOUNTAIN ROAD THAT SHALL DRAIN BY NATURAL PERCOLATION.

DRYWELL DISSIPATION RATE = 0.24 CFS TOTAL COMBINED FOR ALL DRYWELLS. IF DRYWELL PERCOLATION RATES FOR 2 DRYWELLS IS AT LEAST 0.24 CFS, THIRD DRYWELL MAY BE ELIMINATED.

TIME [SEC] = VOLUME [CF] / RATE [CFS]

t = 30,491 / 0.24 = 127,045 SEC = 35.3 HOURS

DRAINAGE STATEMENT

-SITE IS NOT IN A SPECIAL FLOOD HAZARD AREA

-OFFSITE FLOW AFFECTS THIS SITE FROM ADOT ROW AND SITE TO THE NE. FLOW SHALL BE ROUTED AROUND THE SITE VIA A NEW DRAINAGE CHANNEL. OFFSITE FLOW FROM 1/2 ROW OF MOUNTAIN ROAD SHALL BE RETAINED ONSITE. RETENTION PROVIDED IS 100-YEAR, 2-HOUR

-EXTREME STORM OUTFALLS THE SITE AT THE SOUTHWEST DRIVEWAY AT THE ELEVATION OF 1434.90.

FLOODPLAIN INFORMATION

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP PANEL NUMBER 04013C2790L, DATED OCTOBER 16, 2013 THE PARCEL IS LOCATED IN THE ZONE X (SHADED) AREA, WHICH IS DEFINED AS AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

LEGEND

8008

((⊕))----((⊕))

• 99.99P

ROW

(R)

NEW SEWER MANHOLE

NEW SEWER CLEANOUT

NEW BACKFLOW PREVENTER

NEW FIRE BACKFLOW PREVENTER

SURVEY MONUMENT AS NOTED

SPOT ELEV. (EXIST. GRADE)

SPOT ELEV. (NEW GRADE)

NEW WATER METER

NEW FIRE HYDRANT

NEW DRYWELL

RIGHT-OF-WAY

CONCRETE

TOP OF CURB

LOW POINT

HIGH POINT

GRADE BREAK

FINISHED FLOOR ELEVATION

FINISHED GRADE

TOP OF FOOTING

GUTTER

RECORDED VALUE

MEASURED VALUE

PAVEMENT (ASPHALT)

PROJECT RIGHT-OF-WAY

— - - — EXISTING PROPERTY LINE ROADWAY CENTERLINE

EXISTING EASEMENT EXISTING CONTOUR 2321 **NEW CONTOUR NEW ASPHALT**

NEW CONCRETE NEW RIP RAP

NEW WALL COMBINATION SCREEN/RETAINING WALL

EXISTING PAVEMENT EDGE

EXISTING FENCE NEW CURB ─── NEW FENCE

EXISTING UNDERGROUND ELECTRIC

EXISTING COMMUNICATION LINE EXISTING SEWER LINE

EXISTING WATER LINE EXISTING FIRE SERVICE EXISTING GAS LINE

NEW STORM DRAIN PIPE ——s— NEW SEWER LINE —— w—— NEW WATER LINE

> **EXISTING SEWER MANHOLE EXISTING SEWER STUB**

----- NEW FIRE SERVICE

EXISTING WATER METER EXISTING TRANSFORMER

OWNER/DEVELOPER

THE WALL COMPANY 1476 WEST HARVARD AVENUE GILBERT, ARIZONA 85233 PH: 480-686-9347 ATTN: SCOTT McDONALD

CIVIL ENGINEER

CYPRESS CIVIL DEVELOPMENT 4450 NORTH 12TH STREET, #228 PHOENIX, ARIZONA 85014 PH: 623-282-2498 ATTN: JEFF HUNT, PE

ARCHITECT

ARCHICON 5055 EAST WASHINGTON STREET, SUITE 200 PHOENIX, ARIZONA 85034 PH: 602-222-4266 ATTN: JERE PLANCK

UTILITIES

WATER: CITY OF MESA CITY OF MESA SEWER: ELECTRIC ARIZONA PUBLIC SERVICE SOUTHWEST GAS **TELEPHONE:** CENTURYLINK CABLE: COX COMMUNICATIONS

SHEET INDEX

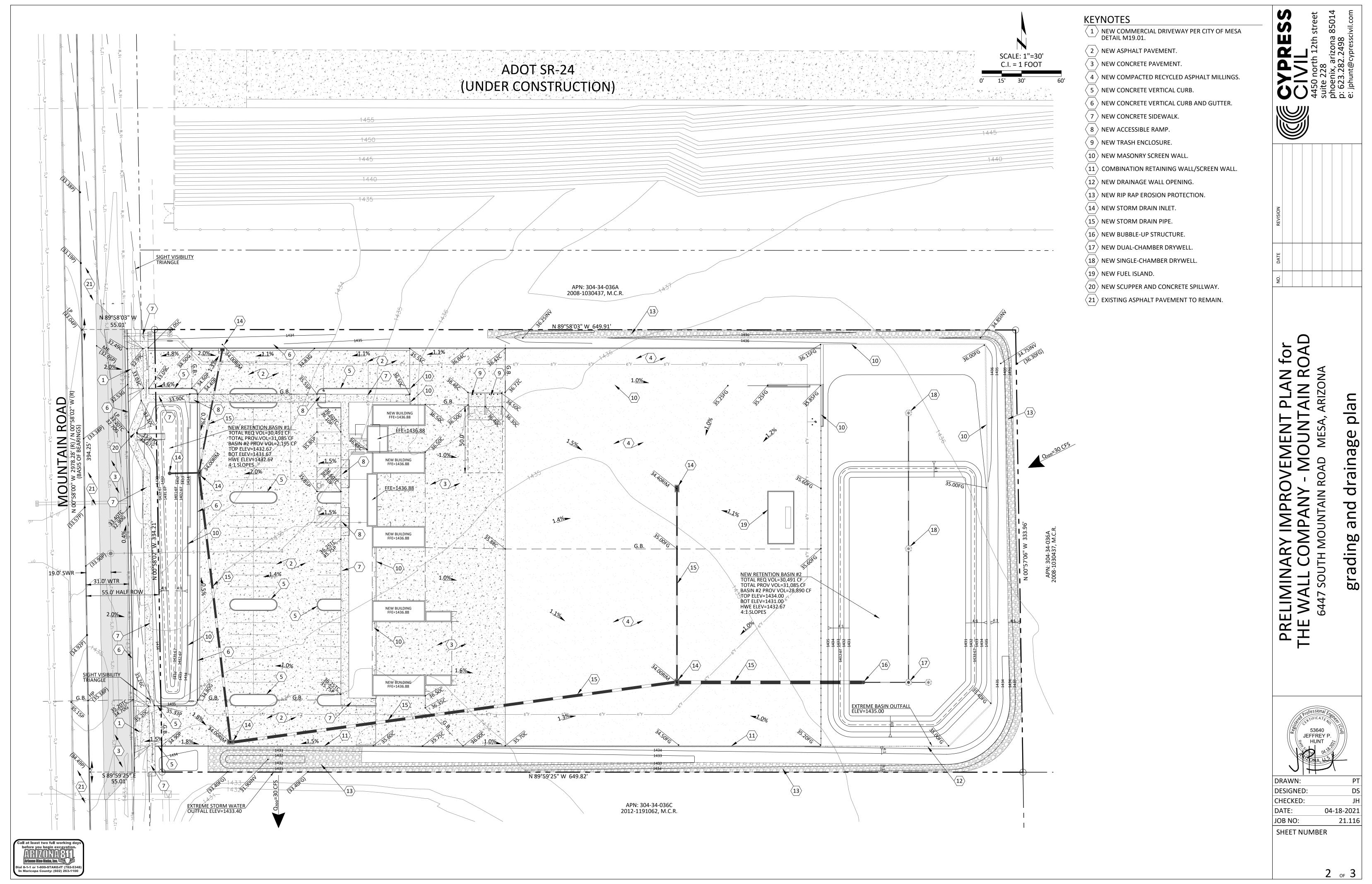
1. COVER SHEET 2. GRADING AND DRAINAGE PLAN 3. ONSITE UTILITY PLAN

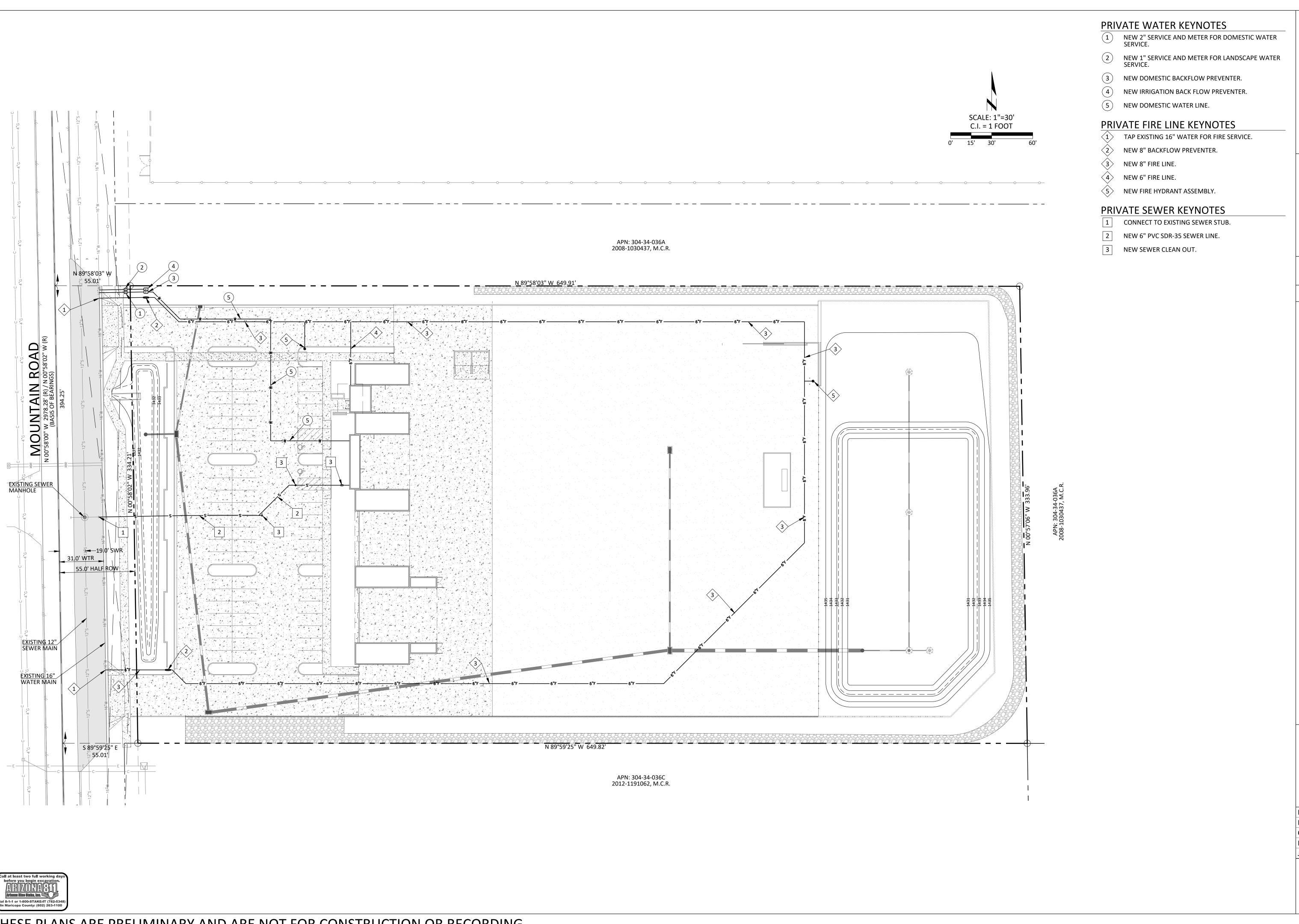
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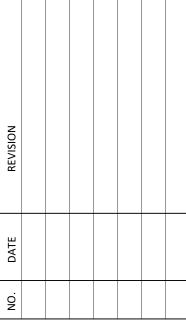


DRAWN:	F
DESIGNED:	
CHECKED:	J
DATE:	04-18-202
JOB NO:	21.11
SHEET NUMBER	









CHECKED: 04-18-2021 JOB NO: 21.116 SHEET NUMBER