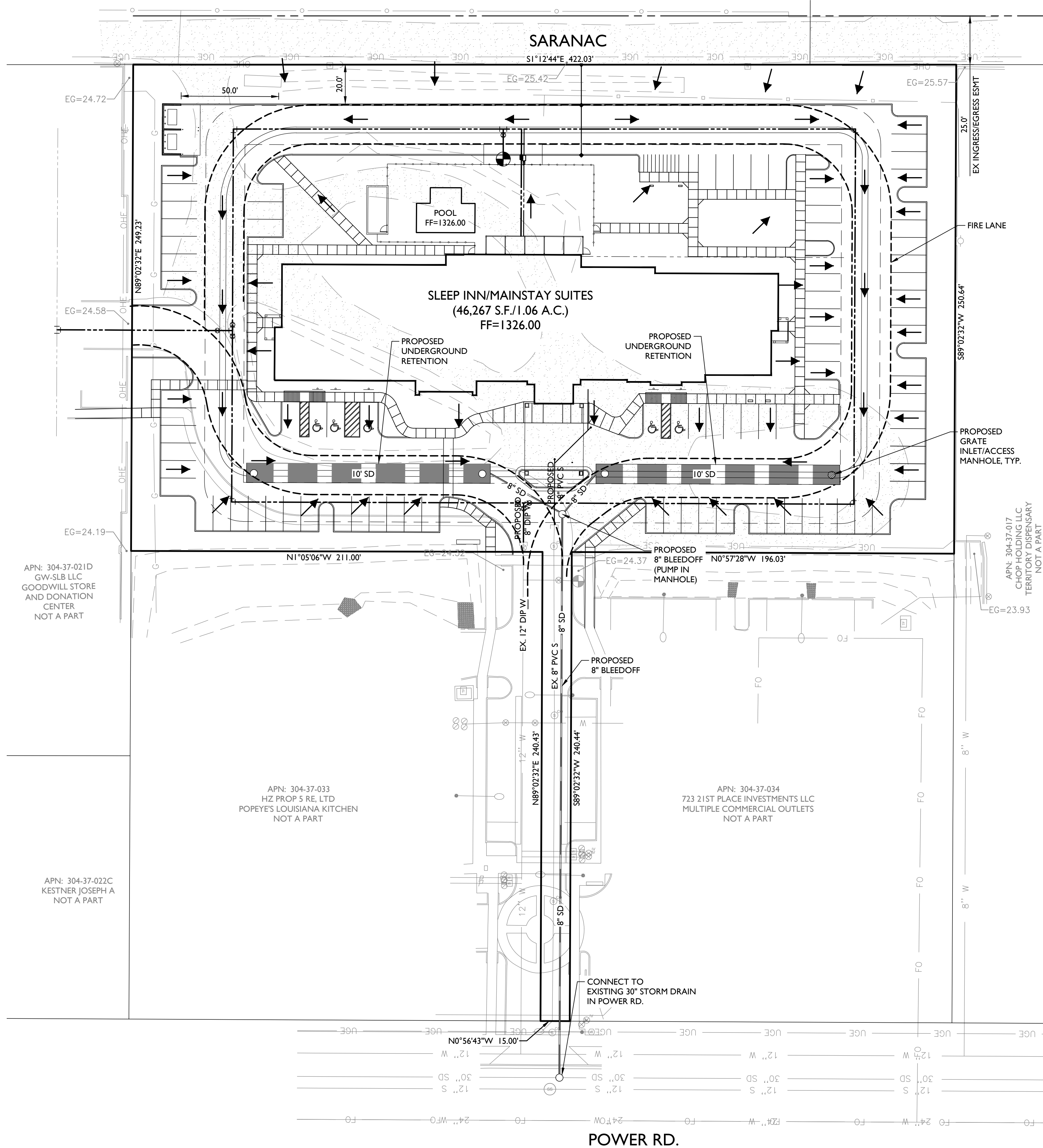


LEGEND

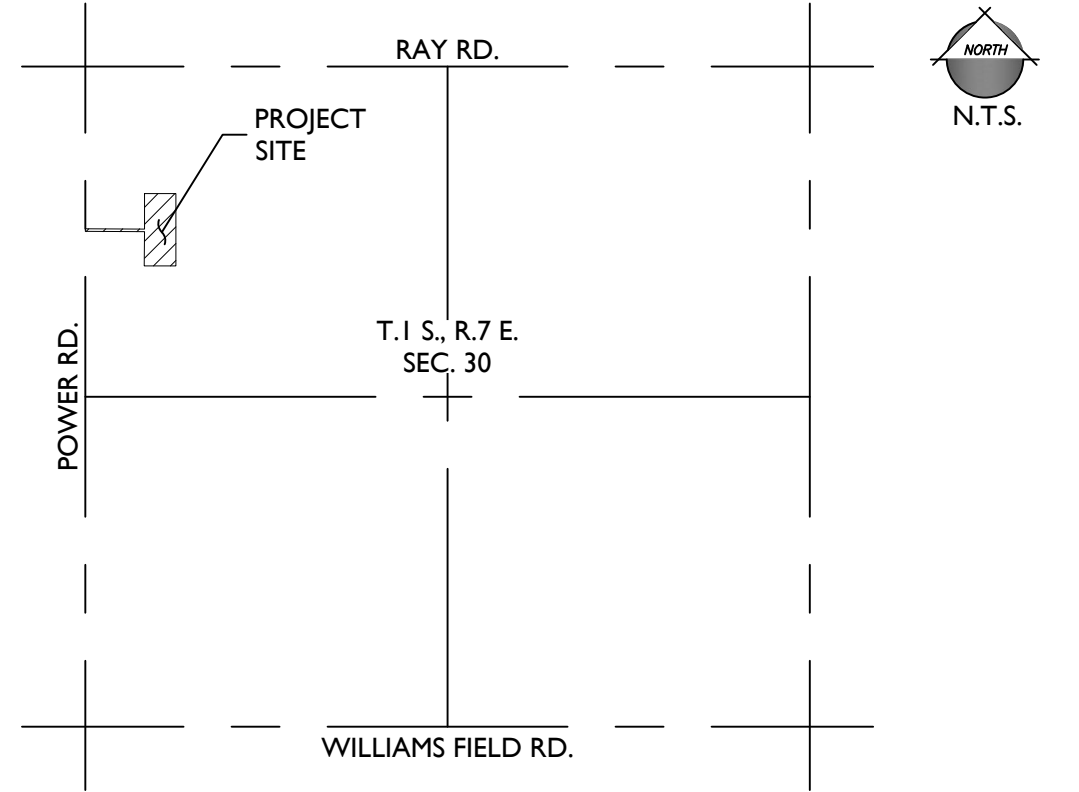
- TC TOP OF CURB ELEVATION
FF FINISH FLOOR ELEVATION
HW HIGH WATER ELEVATION
BTM BOTTOM ELEVATION
CATCH BASIN MAG 535
LANDSCAPE DRAINAGE FLOW
STORM DRAIN PIPE FLOW
HARDSCAPE DRAINAGE FLOW
PROPOSED STORM DRAIN
AREA DRAIN BASIN
SIDEWALK SCUPPER
MANHOLE/NYLOPLAST DRAIN BASIN
DRYWELL
RIPRAP

PRELIMINARY GRADING AND DRAINAGE
FOR
SLEEP INN/MAINSTAY SUITES
MESA, ARIZONA

A PORTION OF THE NORTHWEST QUARTER OF SECTION 30, TOWNSHIP 1 SOUTH, RANGE 7 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.



VICINITY MAP



OWNER/DEVELOPER:

MESA HOTEL PARTNERS, LLC
2520 EAST UNIVERSITY DRIVE, SUITE 103
TEMPE, AZ 85281
PHONE: (714) 256-2078
CELL: (951) 383-0948
CONTACT: TIMOTHY A. BERG
EMAIL: tberg@westcal.cc

CIVIL ENGINEER:

EPS GROUP, INC.
125 S. AVONDALE BLVD., SUITE 115
AVONDALE, AZ 85323
PHONE: (623) 547-4661
CELL: (586)420-8545
CONTACT: TODD LESLIE
EMAIL: todd.leslie@epsgroupinc.com

BASIS OF BEARING:

POWER RD. ALSO BEING THE WEST LINE OF THE NORTHWEST QUARTER OF SECTION 30, T1S, R7E, MARICOPA COUNTY PER ALTA SURVEY DONE BY SURVEY INNOVATION GROUP, INC. DATED 4-23-2019.

BEARING = (NORTH 00°56'43" WEST)

BENCHMARK:

CITY OF MESA BRASS TAG ON TOP OF CURB AT THE N.E. CORNER OF THE INTERSECTION OF POWER RD. & HWY 202 FREEWAY.

ELEVATION = 1324.10' (NAVD 88' DATUM)

PROJECT DATA

APN: 304-37-035
ZONING: C-2 CITY OF MESA
HEIGHT: 37'-6" AT MID-POINT OF SLOPED ROOF
NOTED FOOTPRINT: 15,551 S.F.
TOTAL S.F.: 46,267 S.F.
PARKING SPACES REQUIRED: 91
CAR PARKING SPACES PROVIDED: 90
MOTORCYCLE SPACES PRO.: 2
TOTAL PARKING SPACES PRO.: 92
BICYCLE SPACES PROVIDED: 10
ACCESSIBLE PARKING: 4 INCLUDE 1-VAN
SITE GROSS S.F.: 105,501
NET S.F.: 89,949

Retention Calculations

Project: Mainstay Sleep Inn Mesa
Storm Event: 100-yr 2-hr
Prepared by: EPS Group

$V = C \cdot A \cdot P \cdot 12^{11}$
Where:
V = Runoff Volume
C = Runoff Coefficient
A = Drainage Area
P = 2.0 in

Underground Retention Pipe Volume Calculations

Basin ID	Diameter (ft)	Area (ft ²)	Length (ft)	Volume Provided, V _p (ft ³)
U1	10	78.54	250	19,635
TOTAL				19,635

Volume Required and Summary

Basin ID	Sub-Basin ID	Sub-Basin Area Description	Contributing Area (ft ²)	C u	Volume Required, V _r (ft ³)	Volume Provided, V _p (ft ³)	Estimated Water Depth (ft)
U1	A1	1/2 site area + S. 185th half street	116,028	0.91	19,357	19,635	
Total			116,028	0.91	19,357	19,635	

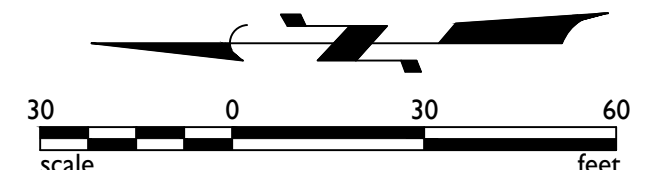
Basin Dewatering

Basin ID	Drained Surface Percolation Rate (in/hr)	Percolation Area (Surface only) (sq ft)	Volume not drained in 36 hours (ft ³)	Assumed Drift Percolation Rate (in/hr)	Drywells Required	Drywells Provided	Drains in Less Than 36 Hours?
B1	0.000	N/A	19,357	0.10	2	2	Yes

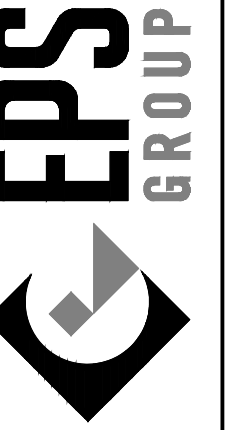
Notes:
- The drainage area includes the adjacent half street of the future Saranac right-of-way to the east of the property

Hardscape	0.95	104,425
Landscape	0.50	11,603
Total Area	---	116,028
100 YR Weighted "C"		0.91

WEST QUARTER CORNER
SEC. 30, T1S, R7E
FOUND BRASS CAP
IN HANDHOLE



1130 N Alma School Road
Suite 120
Mesa, AZ 85201
T: 480.503.2250 | F: 480.503.2258
www.epsgroupinc.com



SLEEP INN/MAINSTAY SUITES

Project:

Revisions:

PLAN SET DATE: 11/03/20



Designer: EPS
Drawn by: EPS

Preliminary
Not For
Construction
Or
Recording

Job No.
20-0330

GD01

Sheet No.
1
of 1