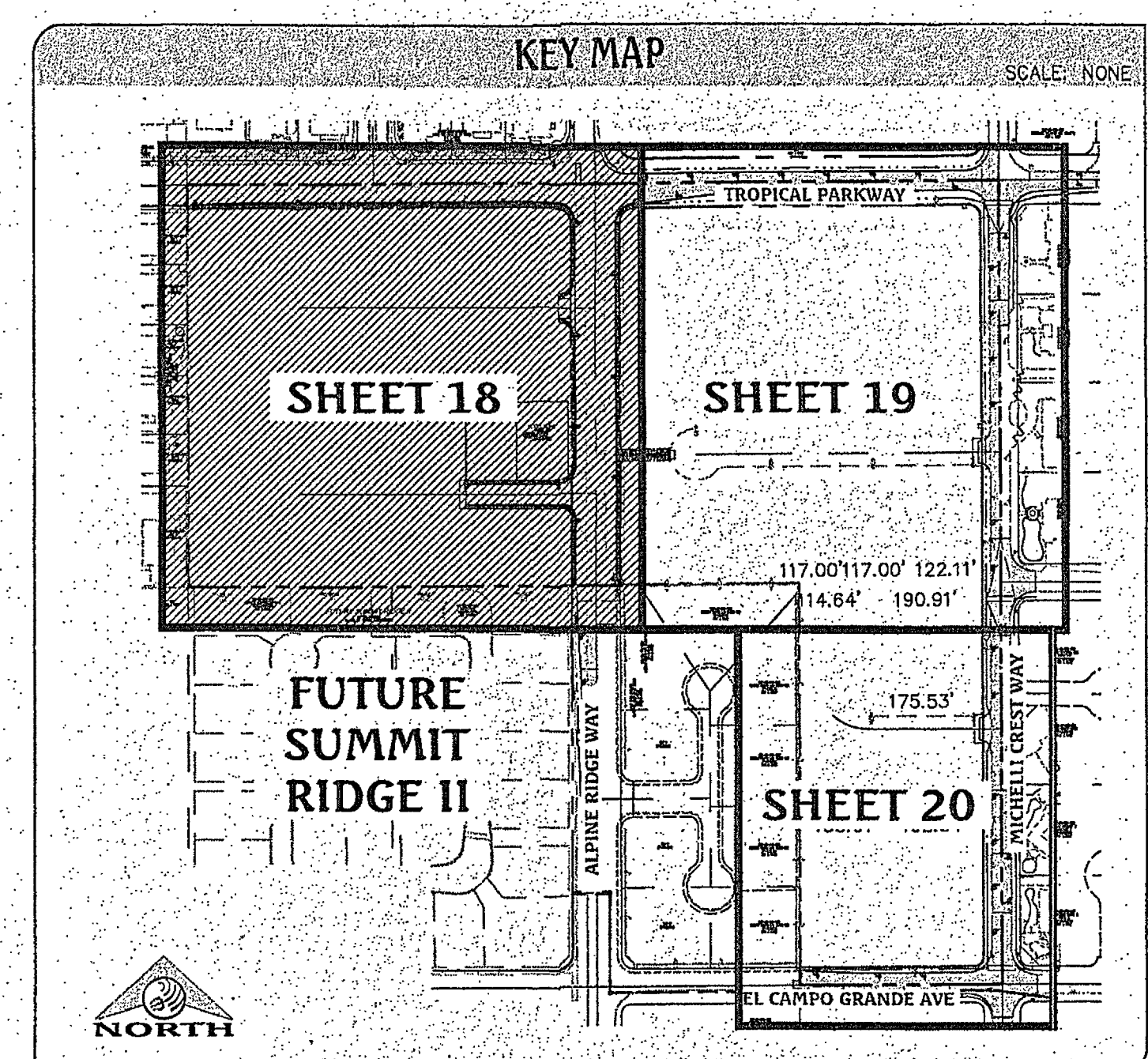
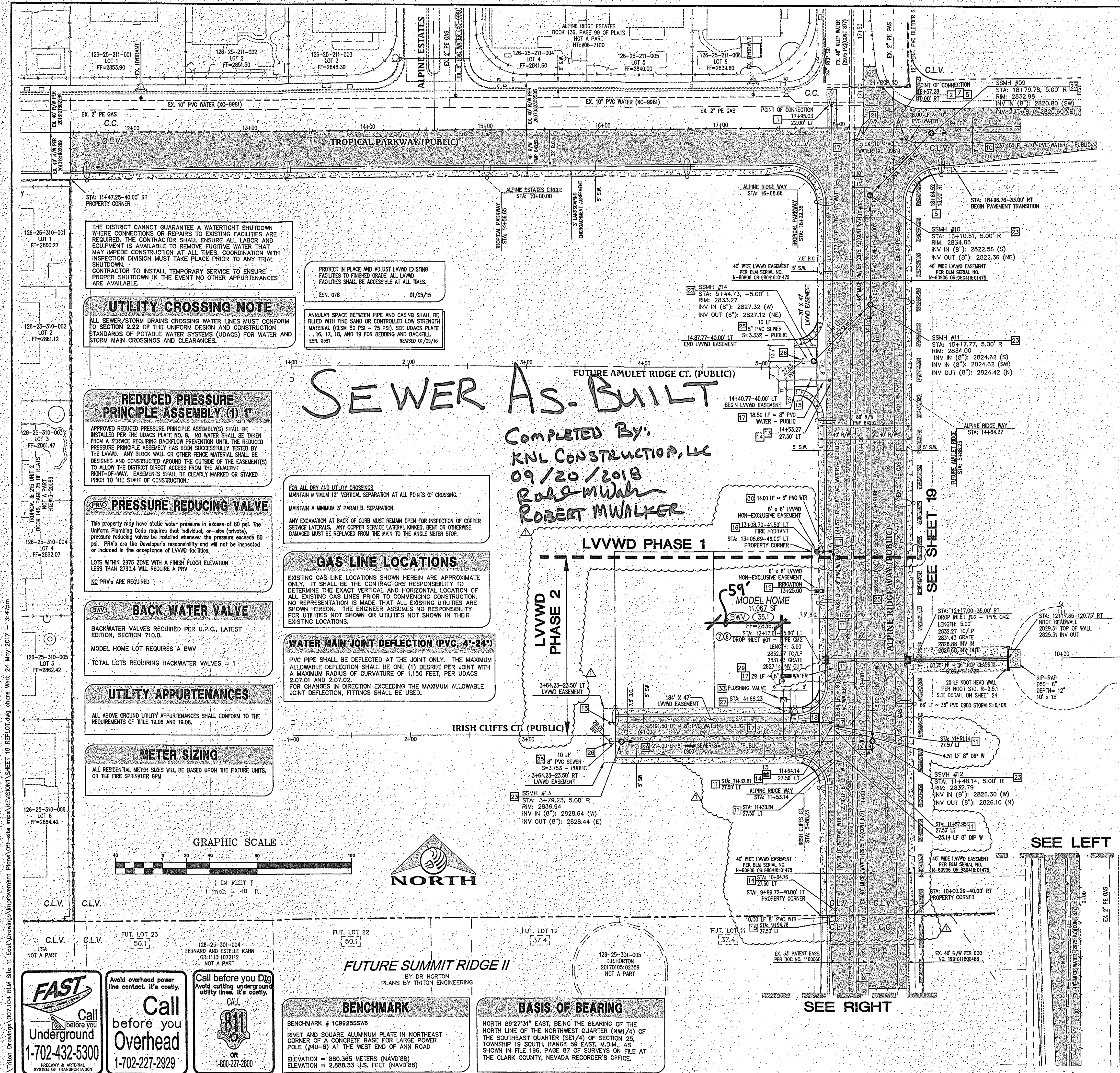




WATER & SEWER CONSTRUCTION NOTES

- POC (2975 P2) - INSTALL 10" TAPPING SLEEVE WITH 5" TAPPING VALVE PER UDACS PLATE NO. 30, 34 & SEC. 2.2.4.01B
- POC (2975 P2) - REMOVE EXISTING BLOW OFF W/ CAP PER UDACS PLATE NO. 36 AND INSTALL 10" GATE VALVE & 22.5" BEND PER UDACS PLATE NO. 31
- POC (2975 P2) - REMOVE EXISTING BLOW OFF W/ CAP PER UDACS PLATE NO. 36 AND INSTALL 8" 45° BEND PER UDACS PLATE NO. 31
- POC (2975 P2) - INSTALL 8" TAPPING SLEEVE WITH TAPPING VALVE PER UDACS PLATE NO. 30, 34, 36 & SEC. 2.2.4.01B
- INSTALL 10" 22.5° BEND PER UDACS PLATE NO. 31
- INSTALL 10" 90° BEND PER UDACS PLATE NO. 31
- INSTALL 10" GATE VALVE PER UDACS PLATE NO. 30 AND 39
- INSTALL 10"x8" REDUCER PER UDACS PLATE NO. 30
- INSTALL FIRE HYDRANT ASSEMBLY WITH 6" GATE VALVE AND 10"x6" TEE PER UDACS PLATE NO. 39 & 40
- INSTALL 10" PVC WATER PIPE PER UDACS PLATE NO. 17
- INSTALL 8" 45° BEND PER UDACS PLATE NO. 31
- INSTALL 8" 90° BEND PER UDACS PLATE NO. 31
- INSTALL 8" TEE PER UDACS PLATE NO. 31
- INSTALL 8" GATE VALVE PER UDACS PLATE NO. 30 AND 39
- INSTALL 2" BLOW OFF ASSEMBLY WITH CAP PER UDACS PLATE NO. 36
- INSTALL FIRE HYDRANT ASSEMBLY WITH 6" GATE VALVE AND 8"x6" TEE PER UDACS PLATE NO. 39 & 40
- INSTALL 8" PVC WATER PIPE PER UDACS PLATE NO. 17
- INSTALL 1" COPPER WATER SERVICE W/ 3/4" METER PER UDACS PLATE NO. 4
- INSTALL 3/4" BRIGRATION METER W/ 1" RPPA (BETWEEN METER & RPPA)
- EX. 6" BLOW OFF, PROTECT IN PLACE, ADJUST RIM PER UDACS PLATE NO. 37
- EX. WATER GATE VALVE, PROTECT IN PLACE, ADJUST/REPLACE CONCRETE COLLAR PER UDACS PLATE NO. 39
- POC - CONNECT TO EXISTING 8" SEWER, REPLACE EXISTING 48" MANHOLE PER DCSWS SD-1A, SD-1B, SD-4 WITH PRECAST BASE
- INSTALL 48" MANHOLE PER DCSWS SD-1A, SD-1B, SD-4 WITH PRECAST BASE, WITH 24" SINGLE COVER
- INSTALL 48" SHALLOW MANHOLE "B" PER DCSWS SD-13, SD-1A, SD-1B, SD-4 WITH PRECAST BASE
- INSTALL 8" PVC SEWER PIPE PER DCSWS SD-16
- INSTALL STUB & CAP WITH 1 CUBIC-FT THRUST BLOCK
- INSTALL 4" PVC SEWER LATERAL WITH MARKER BALL & CURB MARKING PER DCSWS SD-22 AND SD-29
- INSTALL (2 EA) 4" PVC IRRIGATION CONDUIT
- INSTALL WATER MAIN CROSSING PER UDACS PLATE NO. 22 AND 23
- INSTALL 6" PVC WATER PIPE PER UDACS PLATE NO. 17
- INSTALL 8" 22.5° BEND PER UDACS PLATE NO. 31
- INSTALL 10"x8" CROSS PER UDACS PLATE NO. 31
- INSTALL FLUSHING VALVE & WATER QUALITY MITIGATION STATION, SEE VALVE DETAIL 1/20
- SEWER MANHOLE TO BE CONSTRUCTED WITH WATERTIGHT JOINTS PER UDACS SECTION 2.2.2.01-B2 AND DCSWS 4.9.7

UTILITY LEGEND

EX. GAS	EXISTING GAS
EX. 10" S	EXISTING SEWER MAIN
8" S	PROPOSED SEWER MAIN
EX. 36" SD	PROPOSED SEWER LATERAL
36" SD	EXISTING STORM DRAIN
EX. 8" W	EXISTING WATER MAIN
8" W	PROPOSED WATER MAIN
	PROPOSED WATER LATERAL WITH 3/4" METER
	EXISTING UTILITY MANHOLE
	PROPOSED UTILITY MANHOLE
	EXISTING VALVE
	PROPOSED VALVE
	PROPOSED REDUCER
	PROPOSED STANDARD FIRE HYDRANT WITH 6" LATERAL, 6" GATE VALVE AND TEE
	BACK WATER VALVE
	PRESSURE REDUCING VALVE
	EXISTING STREET LIGHT
	FUTURE STREET LIGHT
	PROPOSED 100W HPS STREET LIGHT
	PROPOSED 150W HPS STREET LIGHT
	PROPOSED 200W HPS STREET LIGHT
	PROPOSED 250W HPS STREET LIGHT
	PROPOSED 400W HPS STREET LIGHT
	PROPOSED CONCRETE DRIVEWAY

FIRE FLOW CALCULATIONS

THE FIRE FLOW REQUIREMENT IS: 1,750 GALLONS PER MINUTE 20 PSI RESIDUAL PRESSURE.

BASED ON:

SQUARE FOOTAGE:	4,800 SQUARE FEET
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	N/A SQUARE FEET
BUILDING HEIGHT:	25 FEET-4 INCHES
NUMBER OF STORIES:	2 FLOORS
TYPICAL CONSTRUCTION:	V-NON RATED
OCCUPANCY:	RESIDENTIAL
FULL AUTOMATIC FIRE SPRINKLER SYSTEM (NFPA 13D) FOR SQUARE FOOTAGES GREATER THAN 4,800 S.F.	YES

FIRE DEPARTMENT APPROVAL

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVWD.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: 10/20/2017
PROJECT NO.: 124612
LVWD APPROVED FIRE FLOW - 1,750 GPM @ 20 PSI RESIDUAL

APPROVALS

LAS VEGAS FIRE AND RESCUE
DATE: 10/20/2017

Triton Engineering

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DR. HORTON
BLM SITE 11
OFF-SITE IMPROVEMENT PLANS
UTILITY PLAN I
SEWER AS-BUILT

PROFESSIONAL ENGINEER - STATE OF NEVADA
JAMES M. PEARCE
Exp. 12-31-17
CIVIL
No. 9552

SHEET 18 OF 25
C.L.V. DWG. # 66442

DATE: 10/20/2017
DRAWN BY: J. PEARCE
DESIGNED BY:
CHECKED BY:
DATE: 10/20/2017
EXTENDED 8" WATER MAIN ALONG ALPINE RIDGE WAY, REVISED SEWER MATERIAL AND ADDED LVWD PHASE.
SCALE: 1" = 40'

Q:\Triton Drawings\2017\04 BLM Site 11 East Drawings\Improvement Plans\Off-site Imp\SEWER\Sheet 18 REPT-LOT.dwg sheet 18 of 25 24 May 2017 3:47pm