

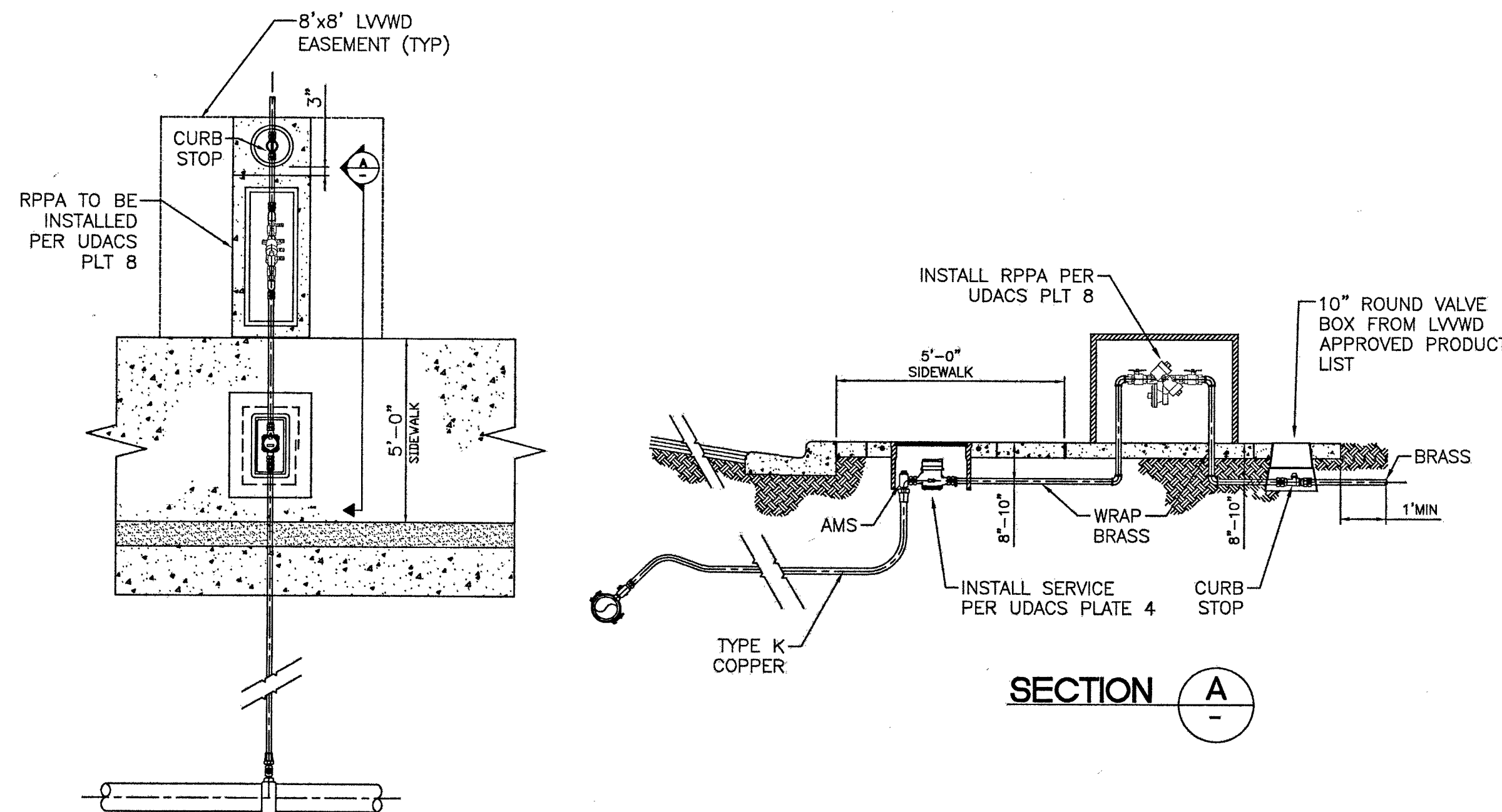
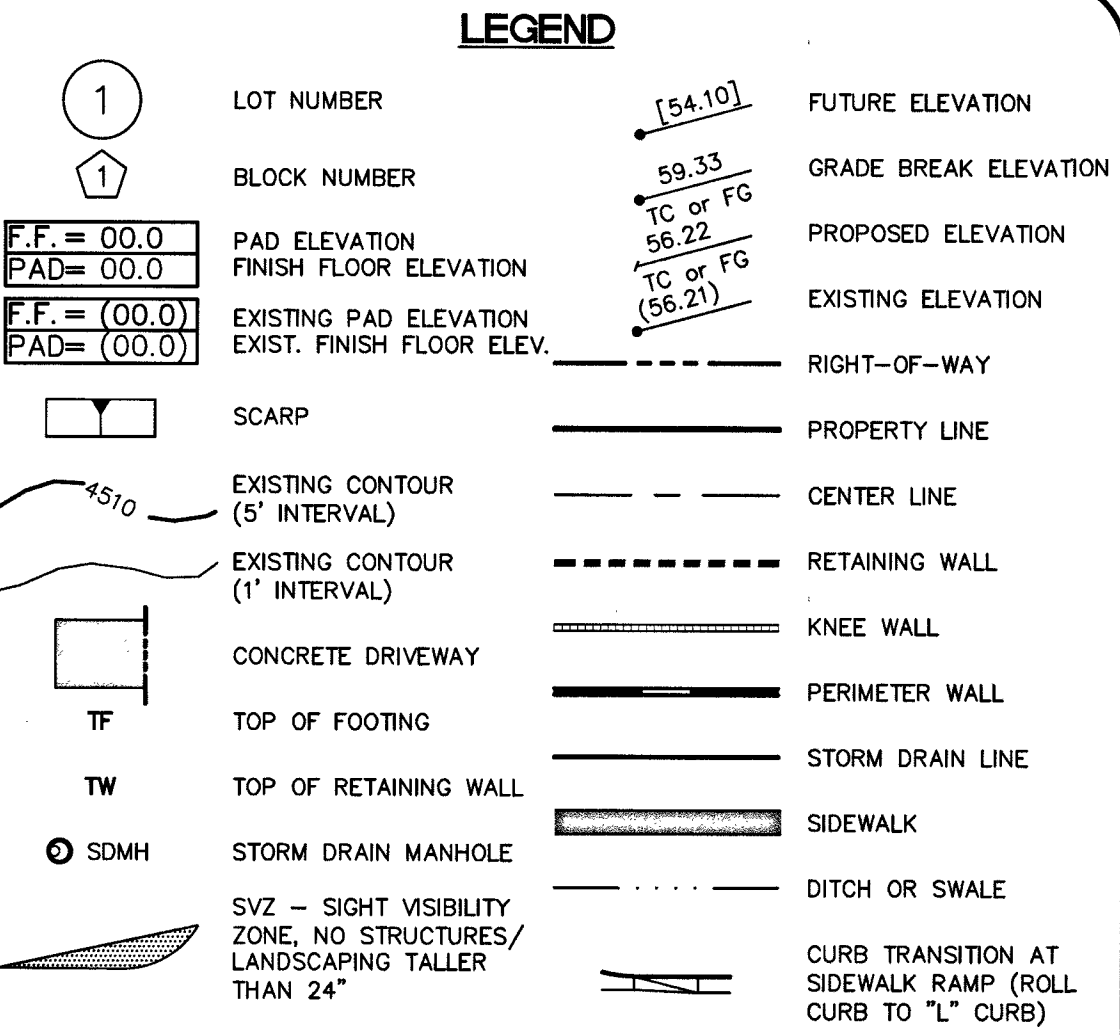
ABBREVIATIONS

A AIR
AB AGGREGATE BASE
AC ASPHALT CONCRETE, ACRE
ACP ASBESTOS CEMENT PIPE
ADD'L ADDITIONAL
A.E. ACCESS EASEMENT
AP ANGLE POINT
APN ASSESSOR'S PARCEL NUMBER
APPROX APPROXIMATELY
AASHTO AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVE AVENUE
AVAR AIR VALVE, AIR RELEASE
AWWA AMERICAN WATER WORKS ASSOCIATION
BC BACK OF CURB
BCR BEGIN CURB RETURN
BLM BUREAU OF LAND MANAGEMENT
BLVD BOULEVARD
BM BENCHMARK
BVCE BEGIN VERTICAL CURVE ELEVATION
BVCS BEGIN VERTICAL CURVE STATION
BW BACK OF SIDEWALK
BWV BACK WATER VALVE
C CENTERLINE
C&G CURB AND GUTTER
CATV UNDERGROUND CABLE TV
CCSM CLARK COUNTY BENCH MARK
CCPW CLARK COUNTY PUBLIC WORKS
CCTV CLOSED-CIRCUIT TELEVISION
COWRD CLARK COUNTY WATER RECLAMATION DISTRICT
C.E. COMMON ELEMENT
CFS CUBIC FEET PER SECOND
CIP CAPITAL IMPROVEMENTS PROJECT, CORRUGATED IRON PIPE
CIPM CURED-IN-PLACE MANHOLE
CIP CURED-IN-PLACE PIPE
CIR CIRCLE
CLR CLEAR OR CLEARANCE
CLSM CONTROLLED LOW STRENGTH MATERIAL
CLV CITY OF LAS VEGAS
CMP CORRUGATED METAL PIPE
CMU CONCRETE MASONRY UNIT
CNLV CITY OF NORTH LAS VEGAS
CO CLEANOUT
CONC CONCRETE
COND CONDUIT
CONST CONSTRUCT OR CONSTRUCTION
COORD COORDINATE
COR CORNER
CPEP CORRUGATED POLYETHYLENE PIPE
CT COURT
CY CUBIC YARD(S)
A DELTA
DCS DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEM (LATEST EDITION)
D.E. DRAINAGE EASEMENT
DEFL DEFLECTION
DG DESIGNED GRADE
D.I. DROP INLET
DIA. DIAMETER
DIP DUCTILE IRON PIPE

DR DRIVE
DS DOWNSPOUT
DTL DETAIL
DW DRIVEWAY
DWG DRAWING
E EAST
E.A.E. EMERGENCY ACCESS EASEMENT
EOR END CURB RETURN
ELE.ELEC. ELECTRICAL
ELEV ELEVATION
EP, EOP EDGE OF PAVEMENT
ESMT EASEMENT
EVC END VERTICAL CURVE
EXIST'G EXISTING
EXP EXPANSION JOINT
FC FACE OF CURB
FF, FFE FINISH FLOOR ELEVATION
FG FINISH GRADE
FH FIRE HYDRANT
FL FLOW LINE
FRP FIBER OPTIC
FRP FIBERGLASS REINFORCED PLASTIC
FS FINISH SURFACE
FT FOOT/FEET
FTG FOOTING
FUT FUTURE
G GAS
GA GAGE, GUY ANCHOR
GB GRADE BREAK
GND GROUND
GRD GRADE, GROUND
H, HGT HEIGHT
HDWL HEADWALL
HGL HYDRAULIC GRADE LINE
HOA HOME OWNERS ASSOCIATION
HORIZ HORIZONTAL
HP HIGH POINT, HIGH PRESSURE
HPS HIGH PRESSURE SODIUM
IBC INTERNATIONAL BUILDING CODE
INV INVERT
INT INTERIM
JOINT JOINT
L LENGTH
L, LT LEFT
LP LINEAR FEET
LIP LIP OF GUTTER
LN LANE
LP LIGHT POLE
LSCP LANDSCAPE
LVWVD LAS VEGAS VALLEY WATER DISTRICT
MAX MAXIMUM
MH MANHOLE
MIN MINIMUM
MLCP MORTAR LINED AND COATED PIPE
MOD MODIFY/MODIFIED
MON MONUMENT
MPH MILES PER HOUR
N NORTH
NDOT NEVADA DEPARTMENT OF TRANSPORTATION
NUMBER NUMBER
NO NOSHA
NPC NEVADA POWER COMPANY
NTS NOT TO SCALE
OC ON CURB
OHC OVERHEAD COX COMMUNICATION
OHP OVERHEAD POWER LINE

P.A.E. PEDESTRIAN ACCESS EASEMENT
PB PULL BOX
PC POINT OF CURVE, PRESSURE CLASS
PCC POINT OF COMPOUND CURVE
P.D.E. PUBLIC DRAINAGE EASEMENT
PE PROJECT ENGINEER OR POLYETHYLENE
PED PEDESTRIAN
PGL PROFILE GRADE LINE
PH POTHOLE
PI POINT OF INTERSECTION
P.V. POST INDICATOR VALVE
P/L PROPERTY LINE
PLCP POLYURETHANE LINED AND COATED STEEL PIPE
PMF PAVEMENT MARKING FILM
POB POINT OF BEGINNING
POC POINT ON CURVE
P.O.C. POINT OF CONNECTION
POT POINT ON TANGENT
PP POWER POLE
PROP PROPOSED
PRC POINT OF REVERSE CURVE
P.S.E. PUBLIC SEWER EASEMENT TO BE PRIVATELY MAINTAINED BY HOA
PSI POUNDS PER SQUARE INCH
PT POINT OF TANGENCY
P.U.E. PUBLIC UTILITY EASEMENT
PVC POLYVINYL CHLORIDE
PVI POINT OF VERTICAL INTERSECTION
PVT PRIVATE PAVEMENT
PZ PRESSURE ZONE
R, RAD RADIAL, RADIUS
R, RT RIGHT
RCB REINFORCED CONCRETE BOX
RCP REINFORCED CONCRETE PIPE
RD ROAD
RDWY ROADWAY
REC RECTANGULAR
REF REFERENCE
REINF REINFORCED
REQD REQUIRED
RIM TOP OF RIM ELEVATION
RND ROUND
ROW/R/W RIGHT OF WAY
RP RADIUS POINT
RPM RAISED PAVEMENT MARKERS
RPPA REDUCED PRESSURE PRINCIPAL ASSEMBLY
RSOV RESILIENT SEAT GATE VALVE
S SEWER, SOUTH
SCH SCHEDULE
SD STORM DRAIN
SDMH STORM DRAIN MANHOLE
SECT SECTION
SF SQUARE FOOT/FEET
SHLDR SHOULDER
SHT SHEET
SL STREET LIGHT
SP SERVICE POINT
SQ SQUARE
SR SEWER RECLAIM MAIN
SS SANITARY SEWER
SSMH SANITARY SEWER MANHOLE
STA STATION
ST STREET
STD STANDARD
STL STEEL

STRUCT STRUCTURE
SVZ SIGHT VISIBILITY ZONE
SW SIDEWALK
SWG SOUTHWEST GAS
T TELEPHONE OR TOP
TAN TANGENT
TB TOP OF BERM
TC TOP OF CURB
TCE TEMPORARY CONSTRUCTION ESMT
TEL,TELE TELEPHONE
TEMP TEMPORARY
TIP TOP OF FOOTING
TG TOP OF GRATE
TMH TOP OF MANHOLE
TOP TOP OF PIPE
TP TELEPHONE POLE
TRANS TRANSITION
TS TRAFFIC SIGNAL
TW TOP OF RETAINING WALL
TYP.(TYP) TYPICAL
UDACS UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (LATEST EDITION)
ULT ULTIMATE
USDCCA UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA, NEVADA (LATEST EDITION)
UT UNDERGROUND TELEPHONE
VAR VARIABLE/VARIES
VC VERTICAL CURVE
VCP VITRIFIED CLAY PIPE
VERT VERTICAL
VG VALLEY GUTTER
VOL VOLUME
W WATER, WEST, WATT
W/ WITH
W.I. WROUGHT IRON
WS WATER SUPPLY
WT WEIGHT
WTR WATER
XING CROSSING
YD YARD, YARD DRAIN
Z PRESSURE ZONE



QUANTITY ESTIMATE

NOTE: CONTRACTOR TO VERIFY QUANTITIES FOR BIDDING PURPOSES

SEWER

DESCRIPTION	UNIT	PUBLIC	PRIVATE
4" SEWER	LF	-	2,500
8" SEWER	LF	3,146	-
SEWER MANHOLE 6 TO 18 FEET	EA	26	-
BACKWATER VALVES	EA	-	41

WATER

DESCRIPTION	UNIT	PUBLIC	PRIVATE
6" WATER MAIN	LF	127	-
8" WATER MAIN	LF	2,780	-
12" WATER MAIN	LF	151	-
8" DIP WATER MAIN	LF	141	-
LANDSCAPE WATER SERVICE	EA	-	3
WATER LATERAL	LF	2,139	-
IRRIGATION SLEEVES	LF	-	198
WATER SERVICE TO LOTS 3/4" METER PER UDACS PLATE NO. 1	EA	87	-
WATER SERVICE TO LOTS 3/4" METER PER UDACS PLATE NO. 3	EA	5	-
FIRE HYDRANT	EA	7	-
3/4" IRRIGATION METER W/ 1" RPPA	EA	2	-

ROADWAY

DESCRIPTION	UNIT	PUBLIC	PRIVATE
CURB & GUTTER (TYPE "L" & "A")	LF	-	565
CURB & GUTTER (30" ROLL TYPE)	LF	-	5,820
CROSS GUTTER	SF	1,007	-
SIDEWALK 4"	SF	-	12,376
SIDEWALK RAMP	EA	-	5
TYPE II GRAVEL BASE	CY	-	1,333
2" ASPHALTIC CONCRETE PAVING	SY	-	11,992
PVMT BUTTON (REFLECTIVE)	EA	-	7
SURVEY MONUMENTS	EA	-	38

DRAINAGE

DESCRIPTION	UNIT	PUBLIC	PRIVATE
18" STORM DRAIN	LF	1,054	-
30" STORM DRAIN	LF	65	-
36" STORM DRAIN	LF	154	-
5' CM2 DROP INLET	EA	-	-
7.5' CM2 DROP INLET	EA	1	-
5.0' TYPE DM2 DI	EA	3	-
10.0' TYPE DM2 DI	EA	2	-
12.5' TYPE DM2 DI	EA	1	-
48" SD MANHOLE	EA	7	-
60" SD MANHOLE	EA	5	-

DRY UTILITIES AND OTHER IMPROVEMENTS

DESCRIPTION	UNIT	PUBLIC	PRIVATE
EXCAVATION & EMBANKMENT	CY	-	82,284
CABLE TO LOTS (RES SUBDIV ONLY)	EA	-	92
GAS TO LOTS (RES SUBDIV ONLY)	EA	-	92
PHONE TO LOTS (RES SUBDIV ONLY)	EA	-	92
POWER TO LOTS (RES SUBDIV ONLY)	EA	-	92

UTILITY APPROVAL

[Signature] 9-16-19
SOUTHWEST GAS CORPORATION DATE:

APPROVED FOR CONSTRUCTION

[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136744 FIRST APPROVED DATE: 10/21/19
LVWVD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM
SHEETS: C1-C3, DT3, MU, U1-U6, P1-P11, LAT

L# 119-01224

CLV DWG# 107Y5117

PULTE HOMES

STARTING: FOXTAIL
SUMMERLIN VILLAGE 24A PARCEL N

LEGEND, ABBREVIATIONS, AND QUANTITIES

DRAWING

03

3 OF 37 SHTS

PROJECT NO.
764-A149-001

DESIGN:
DRAWN:

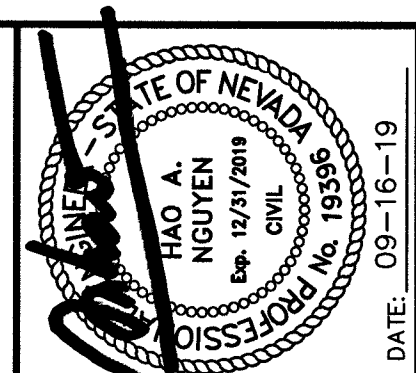
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PLOT DATE: 09-16-19

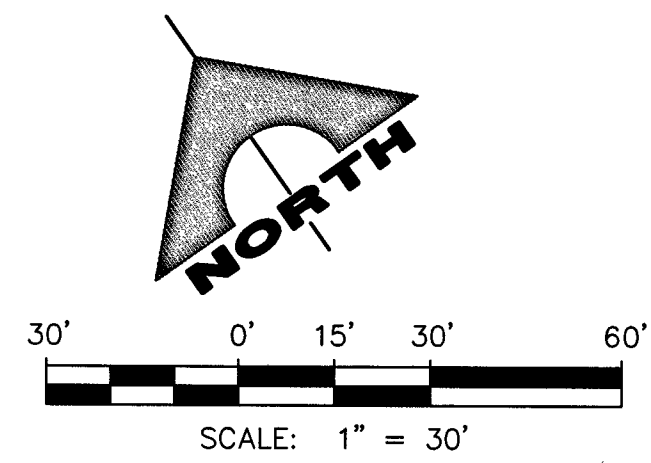
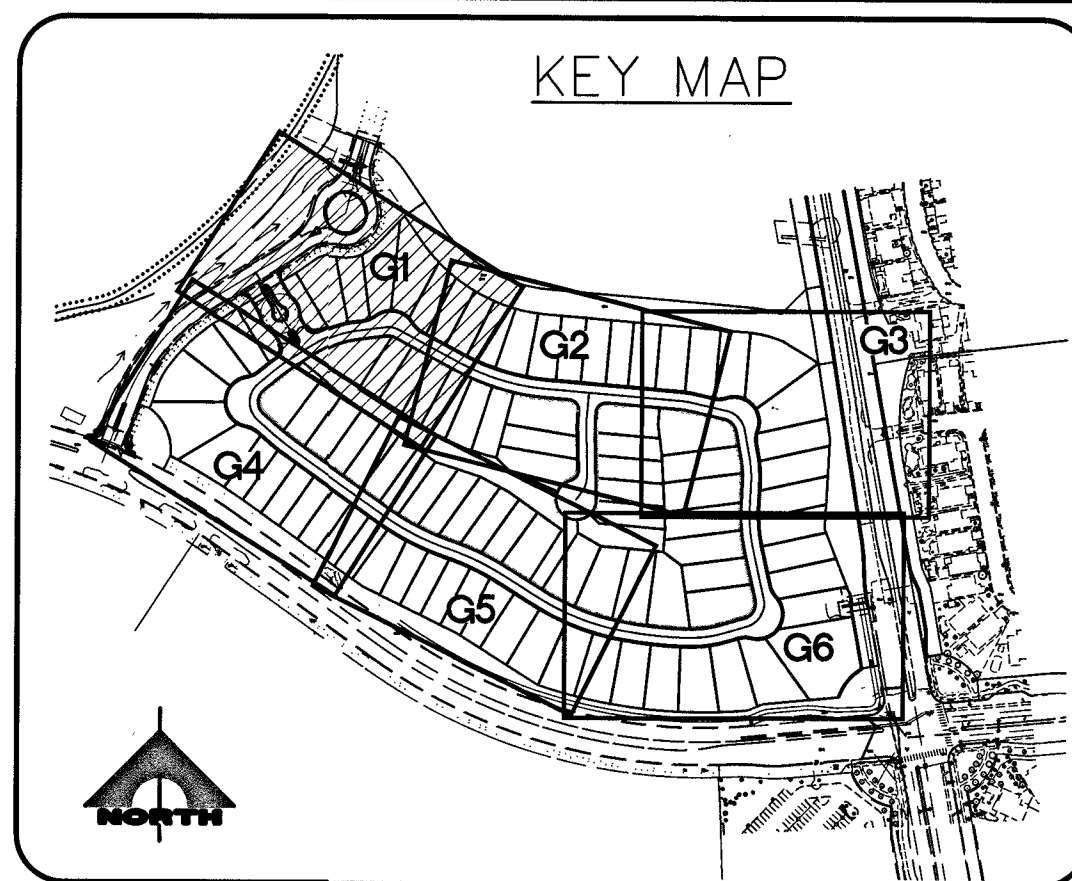
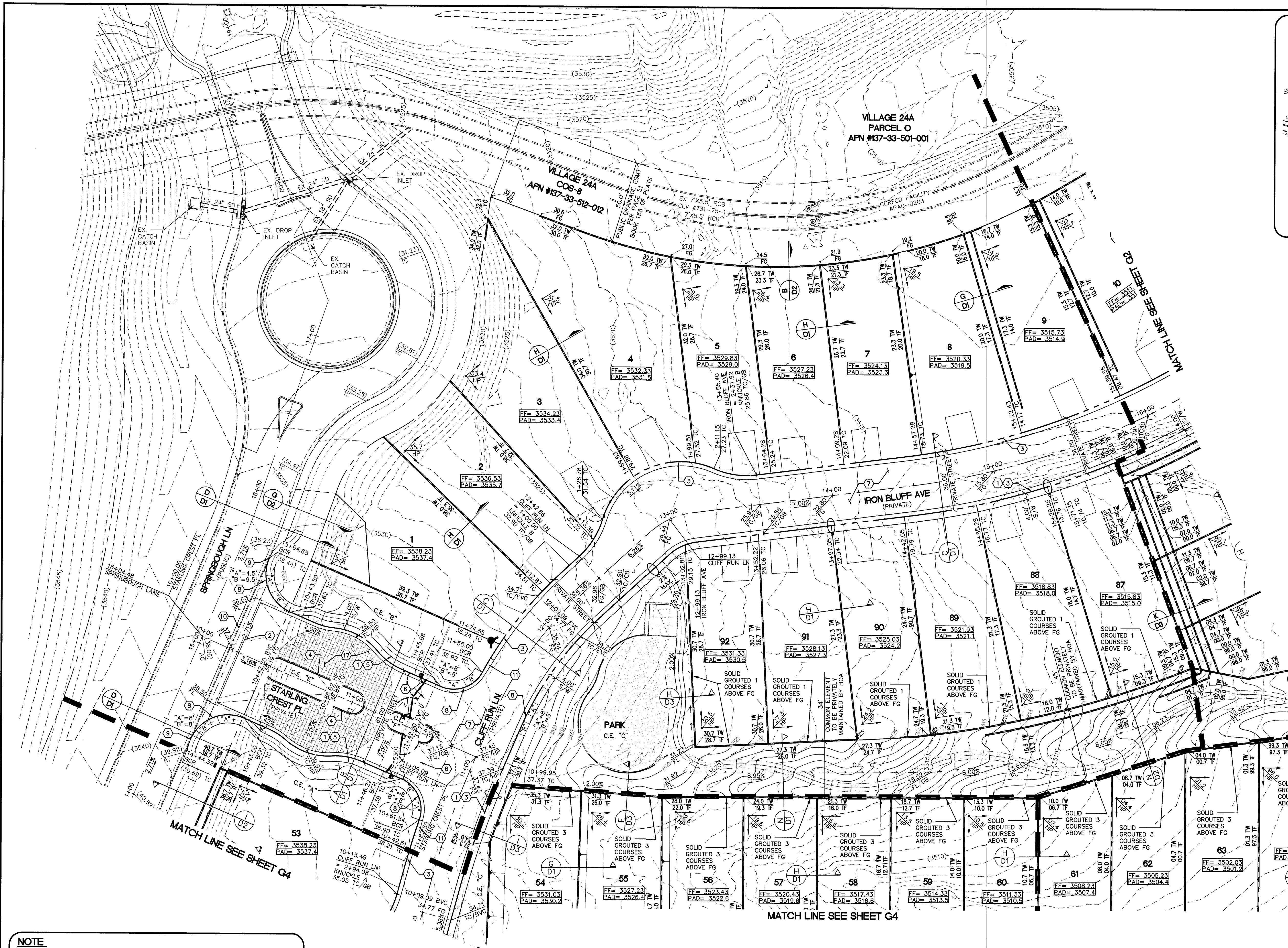
PLOT TIME: 10:33:37

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gowingengineering.com

GCV
ENGINEERS & SURVEYORS

4:\Projects\700\764-A149-001\DWG\Production\764-A149-001.rvt
Nicholas DeRosa





- CONSTRUCTION NOTES**
- CONSTRUCT CONCRETE SIDEWALK PER SUMMERLIN STD DWG NO. S-72 & S-48.
 - CONSTRUCT 8" WIDE VALLEY GUTTER PER SUMMERLIN STD DWG NO. S-64.
 - CONSTRUCT ROLL CURB PER SUMMERLIN STD DWG NO. S-48.
 - CONSTRUCT MEDIAN "A" TYPE PER SUMMERLIN STD DWG NO. S-50.
 - CONSTRUCT "L" CURB PER SUMMERLIN STD DWG NO. S-47.
 - INSTALL GATE - SEE LANDSCAPE.
 - CONSTRUCT 2" AC OVER 4" TYPE II BASE. SEE SOIL REPORT PREPARED BY NOVA GEOTECHNICAL PROJ. #G-18-066 FOR MORE DETAIL.
 - CONSTRUCT HANDICAP RAMP PER USDOCA NO. 235 CASE 1. SEE PLAN FOR "A" & "B" DIMENSION.
 - SAWCUT & MATCH TO EXISTING CURB & SIDEWALK. CONTRACTOR SHALL VERIFY EX. LOCATION & PAVEMENT PRIOR TO CONSTRUCTION.
 - EXISTING CURB TO BE REMOVED.
 - CONSTRUCT 10' TRANSITION FROM "L" CURB TO ROLL CURB PER DETAIL "B" SHEET D3.
 - CONSTRUCT 5' TRANSITION FROM "L" CURB TO ROLL CURB PER DETAIL "C" SHEET D3.
 - CONSTRUCT SIDEWALK UNDERDRAIN PER USDOCA NO. 236.
 - CONSTRUCT HANDICAP RAMP PER USDOCA NO. 235 CASE 2. SEE PLAN FOR "A" & "B" DIMENSION.
 - CONSTRUCT REMOVABLE WROUGHT IRON FENCE PER USDOCA NO. 425.51.
 - EX. SEWER MANHOLE ADJUST TO GRADE.
 - CONSTRUCT CONCRETE PAVEMENT BAND PER DETAIL J ON SHEET D3.
 - CONSTRUCT 4" PCC OVER 4" TYPE II AB.
- STORM DRAIN CONSTRUCTION NOTES**
- CONNECT TO EXISTING STORM DRAIN.
 - CONSTRUCT MODIFIED TYPE "CM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
 - CONSTRUCT 48" TYPE I STORM DRAIN MANHOLE PER STD. DWG 403.
 - CONSTRUCT MODIFIED TYPE "DM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
 - CONSTRUCT 60" TYPE III STORM DRAIN MANHOLE PER STD. DWG 406.1.

- EARTHWORKS**
- | CUT-RAW | FILL-RAW |
|-----------|-----------|
| 76,041 CY | 82,284 CY |
- BASIS OF BEARING:**
- NORTH 051°46' WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN IN FILE 123, PAGE 36 OF PARCEL MAPS.
- BENCHMARK:**
- CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.
- ELEVATION: 3246.63 (FEET)
989.574 (METERS)
- BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

DRAINAGE STUDY COMPLIANCE

I CERTIFY THAT THIS GRADING PLAN IS CONFORMANCE WITH THE APPROVED DRAINAGE STUDY D55121C ON THE FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.

HAO A. NGUYEN, P.E.
NEVADA PE #19396

09-22-19
DATE

NOTE

ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.

ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

Call before you Dig
Underground
1-702-432-5300

Call before you Dig
Underground
1-800-227-2600

Call before you Dig
Overhead
1-702-227-2929

QUANTITY ESTIMATE

NOTE: CONTRACTOR TO VERIFY QUANTITIES FOR BIDDING PURPOSES

DRAINAGE - PUBLIC

DESCRIPTION	UNIT	TOTAL
18" C900	LF	1,061
30" C900	LF	60
36" C900	LF	153
48" TYPE I MANHOLE	EA	6
60" TYPE III MANHOLE	EA	6
5" TYPE "DM2" MODIFIED DROP INLET	EA	1
7.5" TYPE "CM2" MODIFIED DROP INLET	EA	1
10" TYPE "DM2" MODIFIED DROP INLET	EA	2
12.5" TYPE "CM2" MODIFIED DROP INLET	EA	1
12.5" TYPE "DM2" MODIFIED DROP INLET	EA	1

NOTE

- THE GEOTECHNICAL EXPLORATION PROPOSED RESIDENTIAL DEVELOPMENT SUMMERLIN VILLAGE 24 WEST OF CLARK COUNTY 215 BETWEEN CHARLESTON BOULEVARD AND SUMMERLIN PKWY LAS VEGAS, NEVADA AS PREPARED BY ANGLE ENGINEERING, PROJECT NUMBER 77078-1, DATED JANUARY 24, 2019. ADDENDUM DATED JUNE 27, 2019.
- CONSTRUCTION FOR BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING SAFETY AND MAINTENANCE DEPARTMENT.
- WALLS CONSTRUCTED OTHER THAN THOSE AS DETAILED ON THIS SHEET ARE TO BE CONSTRUCTED BY WALL SUB-CONTRACTOR, DETAILS AND STRUCTURAL CALCULATIONS AS PREPARED BY WALLS.
- NO OBJECT OVER 24" OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES CAN BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE.
- ALL PRIVATE STREETS ARE PUBLIC UTILITY EASEMENT, PUBLIC SEWER EASEMENTS, AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY THE HOA.

NOTES TO CONTRACTOR

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

PROJECT NO.
764-A149-001

DESIGN:
DRAWN:
CHECK:
PLOT DATE: 09-22-19
PLOT TIME: 09:52:53

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gowingengineering.com

ENGINEERS' SURVEYORS

PROJECT: 764-A149-001.DWG production 764-A149-001.GS.dwg
Hao Nguyen

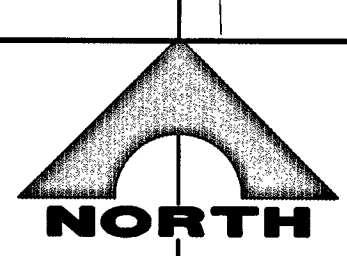
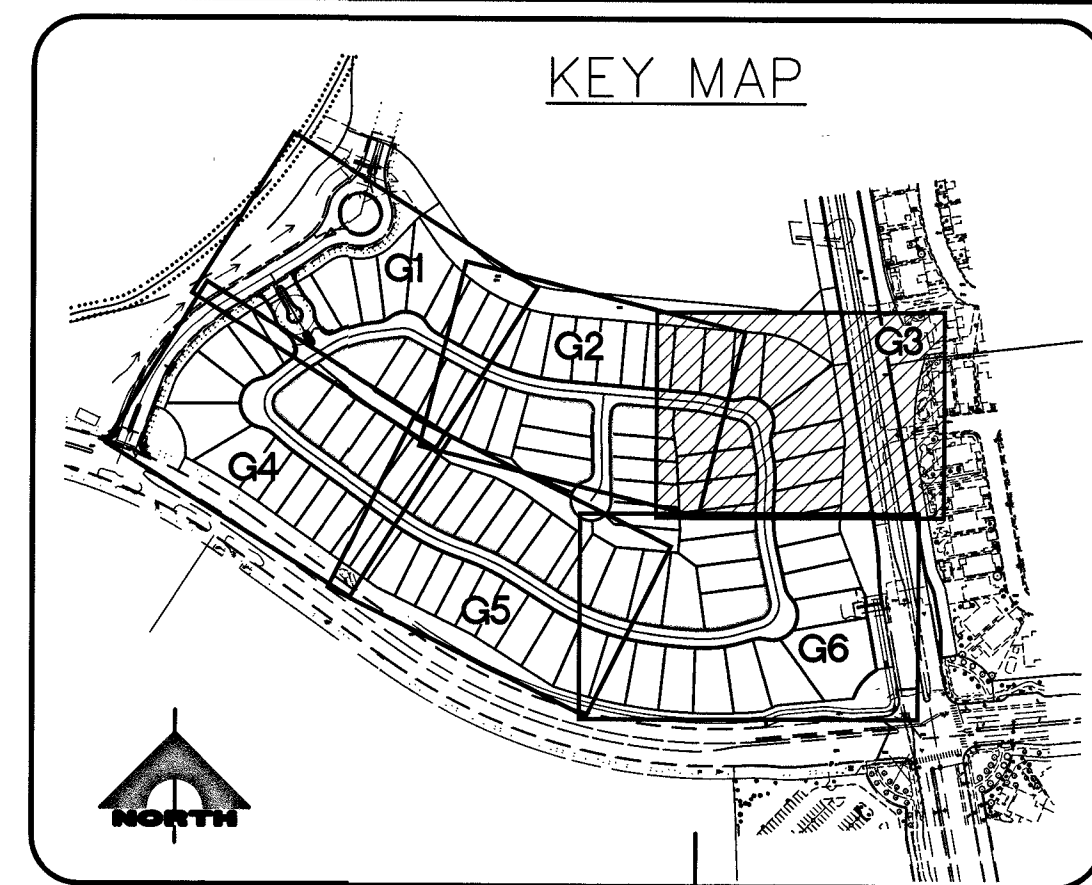
PULTE HOMES

STARTING POINT
SUMMERLIN VILLAGE 24A PARCEL N

GRADING PLAN 1

DRAWING
G1

4 OF 37 SHTS



30' 0' 15' 30' 60'
SCALE: 1" = 30'

CONSTRUCTION NOTES

- CONSTRUCT CONCRETE SIDEWALK PER SUMMERLIN STD DWG NO. S-72 & S-48.
- CONSTRUCT 8" WIDE VALLEY GUTTER PER SUMMERLIN STD DWG NO. S-64.
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- CONSTRUCT MEDIAN "A" TYPE PER SUMMERLIN STD DWG NO. S-50.
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- INSTALL GATE - SEE LANDSCAPE.
- CONSTRUCT 2" AC OVER 4" TYPE II BASE. SEE SOIL REPORT PREPARED BY NOVA GEOTECHNICAL PROJ. #G-18-066 FOR MORE DETAIL.
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- EXISTING CURB TO BE REMOVED.
- CONSTRUCT 10" TRANSITION FROM "L" CURB TO ROLL CURB PER DETAIL "B" SHEET DT3.
- CONSTRUCT 5" TRANSITION FROM "L" CURB TO ROLL CURB PER DETAIL "C" SHEET DT3.
- CONSTRUCT SIDEWALK UNDERDRAIN PER USDOCA NO. 236.
- CONSTRUCT HANDICAP RAMP PER USDOCA NO. 235 CASE 2. SEE PLAN FOR "A" & "B" DIMENSION.
- CONSTRUCT REMOVABLE WROUGHT IRON FENCE PER USDOCA NO. 425.S1.
- EX. SEWER MANHOLE ADJUST TO GRADE.
- CONSTRUCT CONCRETE PAVEMENT BAND PER DETAIL J ON SHEET D3.
- CONSTRUCT 4" PCC OVER 4" TYPE II AB.

STORM DRAIN CONSTRUCTION NOTES

- CONNECT TO EXISTING STORM DRAIN.
- CONSTRUCT MODIFIED TYPE "CM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
- CONSTRUCT 48" TYPE I STORM DRAIN MANHOLE PER STD. DWG 403.
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- CONSTRUCT 60" TYPE III STORM DRAIN MANHOLE PER STD. DWG 406.1.

EARTHWORKS

CUT-RAW	FILL-RAW
76,041 CY	82,284 CY

BASIS OF BEARING:

NORTH 05°14'46" WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN IN FILE 123, PAGE 36 OF PARCEL MAPS.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD. & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

DRAINAGE STUDY COMPLIANCE

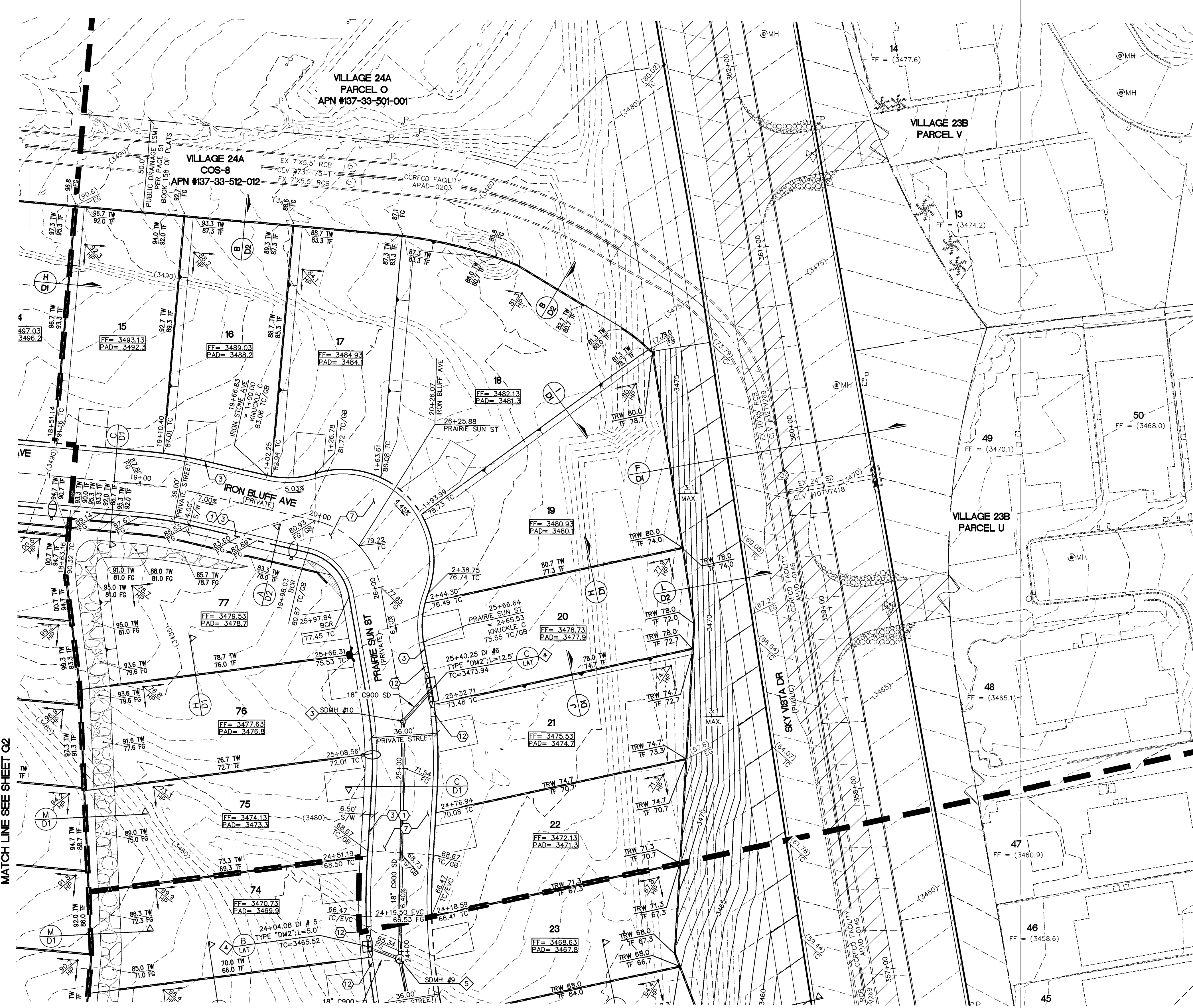
I CERTIFY THAT THIS GRADING PLAN IS CONFORMANCE WITH THE APPROVED DRAINAGE STUDY DSS121C ON THE FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.

HAO A. NGUYEN, P.E.
NEVADA PE #19396

09-22-19
DATE

NOTES TO CONTRACTOR

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.



FAST
Call before you Dig
UnderGround
1-702-432-5300

Call before you Dig
Call
1-800-227-2800

Call before you Dig
Call
1-702-227-2929

NOTE
ALL STORM DRAIN DROP INLETS PER NEWLY ADOPTED USCOC DRAWING NO. 421 (STORMWATER QUALITY MANAGEMENT STAMP AND SIGN DETAIL.)

NOTE
ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.

NOTE
ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

PROFESSIONAL SEAL
HAO A. NGUYEN
PE #19396
CIVIL
09-22-19

PROJECT NO.
764-A149-001

DESIGN:
DRAWN: [Signature]
CHECK: [Signature]

PLOT DATE: 09-22-19
PLOT TIME: 09:53:06

**1555 S. RAINBOW BLVD.,
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
growingengineering.com**

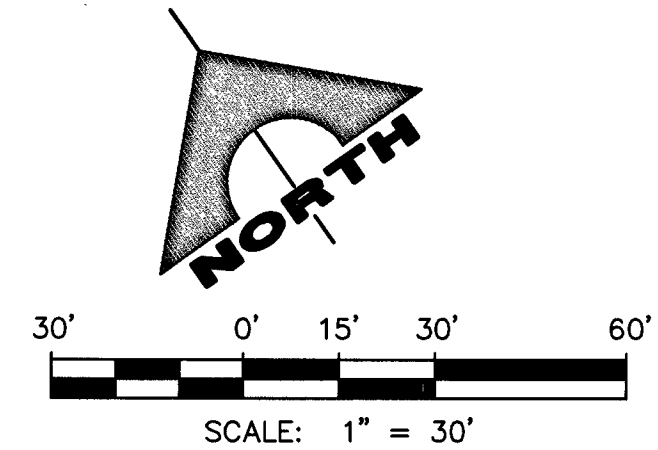
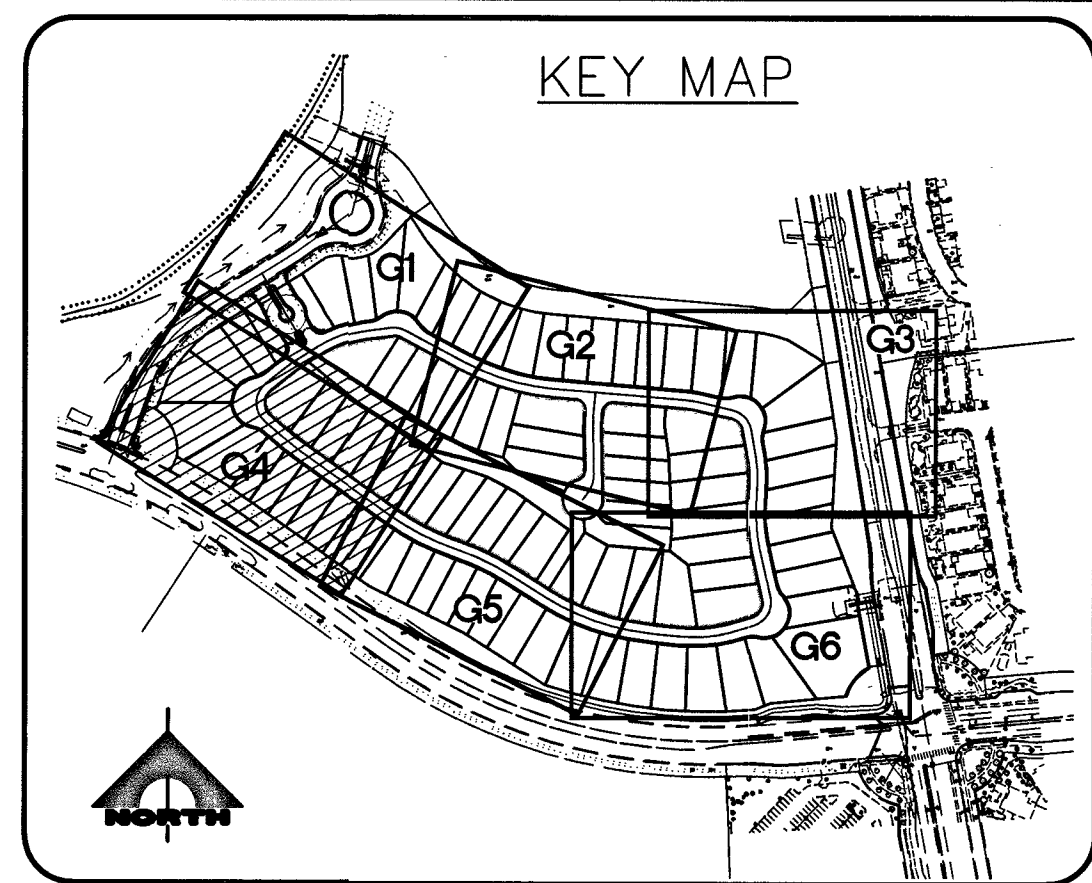
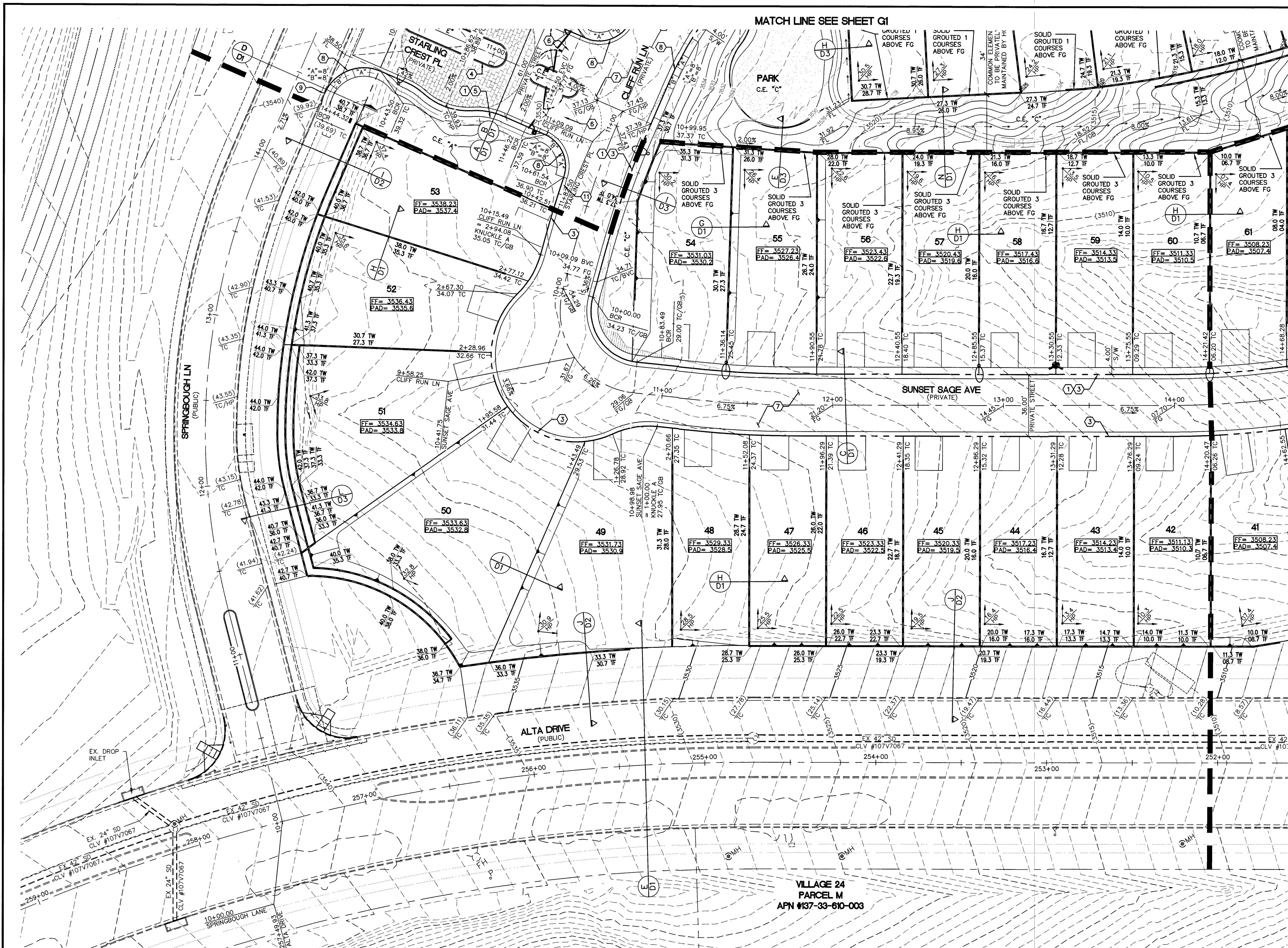
ENGINEERS & SURVEYORS

PULTE HOMES

STARTING FOR TAIL
SUMMERLIN VILLAGE 24A PARCEL N

GRADING PLAN 3

DRAWING
G3
6 OF 37 SHTS



- CONSTRUCTION NOTES**
1. CONSTRUCT CONCRETE SIDEWALK PER SUMMERLIN STD DWG NO. S-72 & S-48.
 2. CONSTRUCT 8" WIDE VALLEY GUTTER PER SUMMERLIN STD DWG NO. S-64.
 3. CONSTRUCT ROLL CURB PER SUMMERLIN STD DWG NO. S-48.
 4. CONSTRUCT MEDIAN "A" TYPE PER SUMMERLIN STD DWG NO. S-50.
 5. CONSTRUCT "L" CURB PER SUMMERLIN STD DWG NO. S-47.
 6. INSTALL GATE - SEE LANDSCAPE.
 7. CONSTRUCT 2" AC OVER 4" TYPE II BASE. SEE SOIL REPORT PREPARED BY NOVA GEOTECHNICAL PROJ. #G-18-066 FOR MORE DETAIL.
 8. CONSTRUCT HANDICAP RAMP PER USDOCA NO. 235 CASE 1. SEE PLAN FOR "A" & "B" DIMENSION.
 9. SAWCUT & MATCH TO EXISTING CURB & SIDEWALK. CONTRACTOR SHALL VERIFY EX. LOCATION & PAVEMENT PRIOR TO CONSTRUCTION.
 10. EXISTING CURB TO BE REMOVED.
 11. CONSTRUCT 10" TRANSITION FROM "L" CURB TO ROLL CURB PER DETAIL "B" SHEET D3.
 12. CONSTRUCT 5" TRANSITION FROM "L" CURB TO ROLL CURB PER DETAIL "C" SHEET D3.
 13. CONSTRUCT SIDEWALK UNDERDRAIN PER USDOCA NO. 236.
 14. CONSTRUCT HANDICAP RAMP PER USDOCA NO. 235 CASE 2. SEE PLAN FOR "A" & "B" DIMENSION.
 15. CONSTRUCT REMOVABLE WROUGHT IRON FENCE PER USDOCA NO. 425.S1.
 16. EX. SEWER MANHOLE ADJUST TO GRADE.
 17. CONSTRUCT CONCRETE PAVEMENT AND BAND PER DETAIL J ON SHEET D3.
 18. CONSTRUCT 4" PCC OVER 4" TYPE II AB.

- STORM DRAIN CONSTRUCTION NOTES**
1. CONNECT TO EXISTING STORM DRAIN.
 2. CONSTRUCT MODIFIED TYPE "CM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
 3. CONSTRUCT 48" TYPE I STORM DRAIN MANHOLE PER STD. DWG 403.
 4. CONSTRUCT MODIFIED TYPE "DM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
 5. CONSTRUCT 60" TYPE III STORM DRAIN MANHOLE PER STD. DWG 406.1.

EARTHWORKS	
CUT-RAW	FILL-RAW
76,041 CY	82,284 CY

BASIS OF BEARING:
NORTH 051°46' WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 99 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN IN FILE 123, PAGE 36 OF PARCEL MAPS.

BENCHMARK:
CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

DRAINAGE STUDY COMPLIANCE

I CERTIFY THAT THIS GRADING PLAN IS CONFORMANCE WITH THE APPROVED DRAINAGE STUDY DSS121C ON THE FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.

HAO A. NGUYEN, P.E.
NEVADA PE #19396

09-24-19
DATE

NOTES TO CONTRACTOR

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

Call before you Dig
Underground
1-702-432-5300

Call before you Dig
Underground
1-800-227-2800

Call before you dig overhead
1-702-227-2929

NOTE

ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.

ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

PROJECT NO. 764-A149-001
DESIGN: 764-A149-001
DRAWN: 764-A149-001
CHECK: 764-A149-001
PLOT DATE: 09-24-19
PLOT TIME: 09:42:15

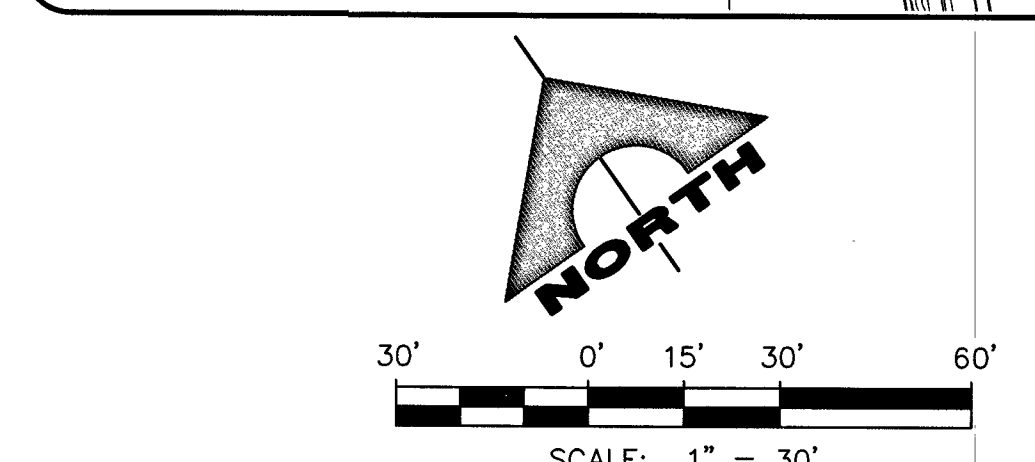
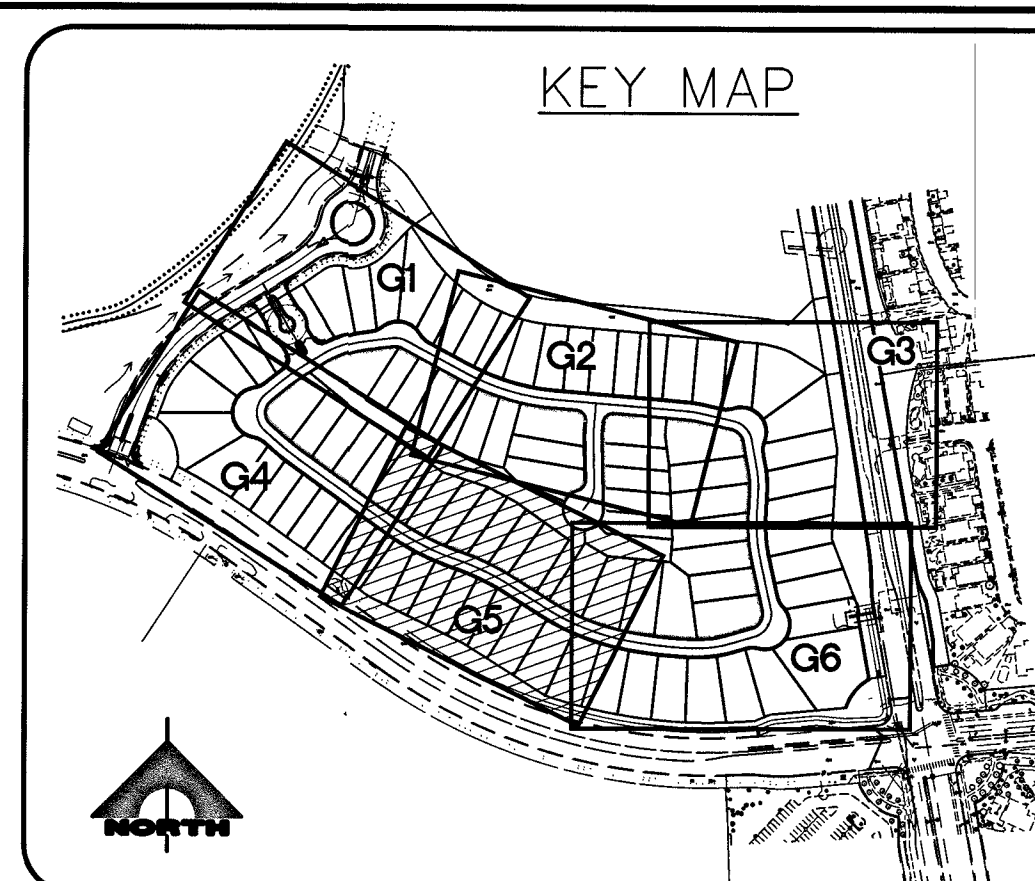
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcnv.com

GCV
ENGINEERS & SURVEYORS

PULTE HOMES
STARLING - FOXTAIL
SUMMERLIN VILLAGE 24A PARCEL N

GRADING PLAN 4

DRAWING
G4
7 OF 37 SHTS



- ### CONSTRUCTION NOTES
- CONSTRUCT CONCRETE SIDEWALK PER SUMMERLIN STD DWG NO. S-72 & S-48.
 - CONSTRUCT 8" WIDE VALLEY GUTTER PER SUMMERLIN STD DWG NO. S-64.
 - CONSTRUCT ROLL CURB PER SUMMERLIN STD DWG NO. S-48.
 - CONSTRUCT MEDIAN "A" TYPE PER SUMMERLIN STD DWG NO. S-50.
 - CONSTRUCT "L" CURB PER SUMMERLIN STD DWG NO. S-47.
 - INSTALL GATE - SEE LANDSCAPE.
 - CONSTRUCT 2" AC OVER 4" TYPE II BASE. SEE SOIL REPORT PREPARED BY NOVA GEOTECHNICAL PROJ. #G-18-066 FOR MORE DETAIL.
 - CONSTRUCT HANDICAP RAMP PER USDOCA NO. 235 CASE 1. SEE PLAN FOR "A" & "B" DIMENSION.
 - SAWOUT & MATCH TO EXISTING CURB & SIDEWALK. CONTRACTOR SHALL VERIFY EX. LOCATION & PAVEMENT PRIOR TO CONSTRUCTION.
 - EXISTING CURB TO BE REMOVED.
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 - CONSTRUCT 5" TRANSITION FROM "L" CURB TO ROLL CURB PER DETAIL "C" SHEET DT3.
 - CONSTRUCT SIDEWALK UNDERDRAIN PER USDOCA NO. 236.
 - CONSTRUCT HANDICAP RAMP PER USDOCA NO. 235 CASE 2. SEE PLAN FOR "A" & "B" DIMENSION.
 - CONSTRUCT REMOVABLE WROUGHT IRON FENCE PER USDOCA NO. 425.S1
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 - CONSTRUCT 4" PCC OVER 4" TYPE II AB.

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 - CONSTRUCT MODIFIED TYPE "CM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
 - CONSTRUCT 48" TYPE I STORM DRAIN MANHOLE PER STD. DWG 403.
 - CONSTRUCT MODIFIED TYPE "DM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
 - CONSTRUCT 60" TYPE III STORM DRAIN MANHOLE PER STD. DWG 406.1.

EARTHWORKS

CUT-RAW	FILL-RAW
76,041 CY	82,284 CY

BASIS OF BEARING:

NORTH 05°14'46" WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN IN FILE 123, PAGE 36 OF PARCEL MAPS.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

DRAINAGE STUDY COMPLIANCE

I CERTIFY THAT THIS GRADING PLAN IS CONFORMANCE WITH THE APPROVED DRAINAGE STUDY D55121C ON THE FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.

HAO A. NGUYEN, P.E.
NEVADA PE #19396

09-22-19
DATE

NOTES TO CONTRACTOR

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1-702-432-5300

Call before you Dig
UnderGround
1-702-227-2929

Call before you Dig
UnderGround
1-702-227-2929

NOTE

ALL STORM DRAIN DROP INLETS PER NEWLY ADOPTED UCSCCA DRAWING NO. 421 (STORMWATER QUALITY MANAGEMENT STAMP AND SIGN DETAIL).

NOTE

ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.

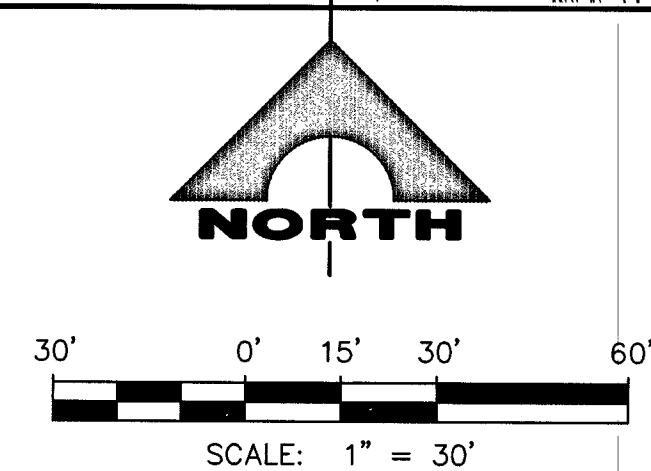
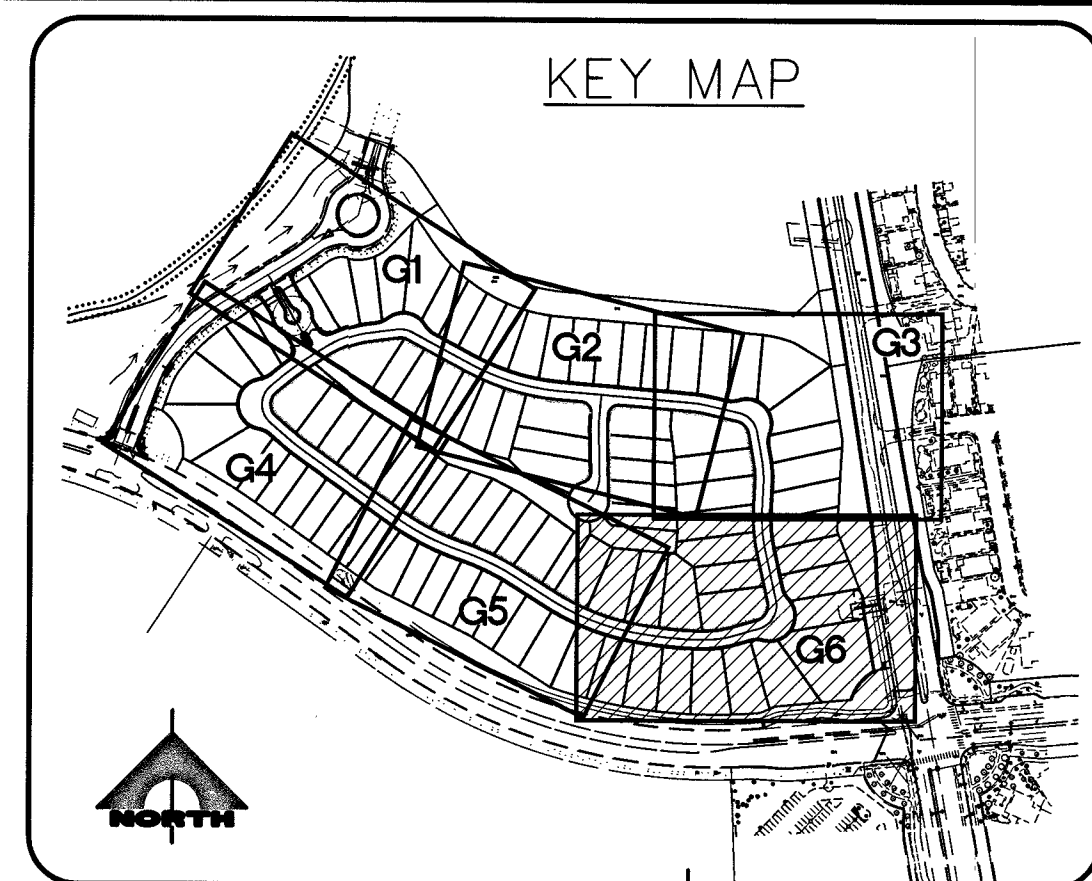
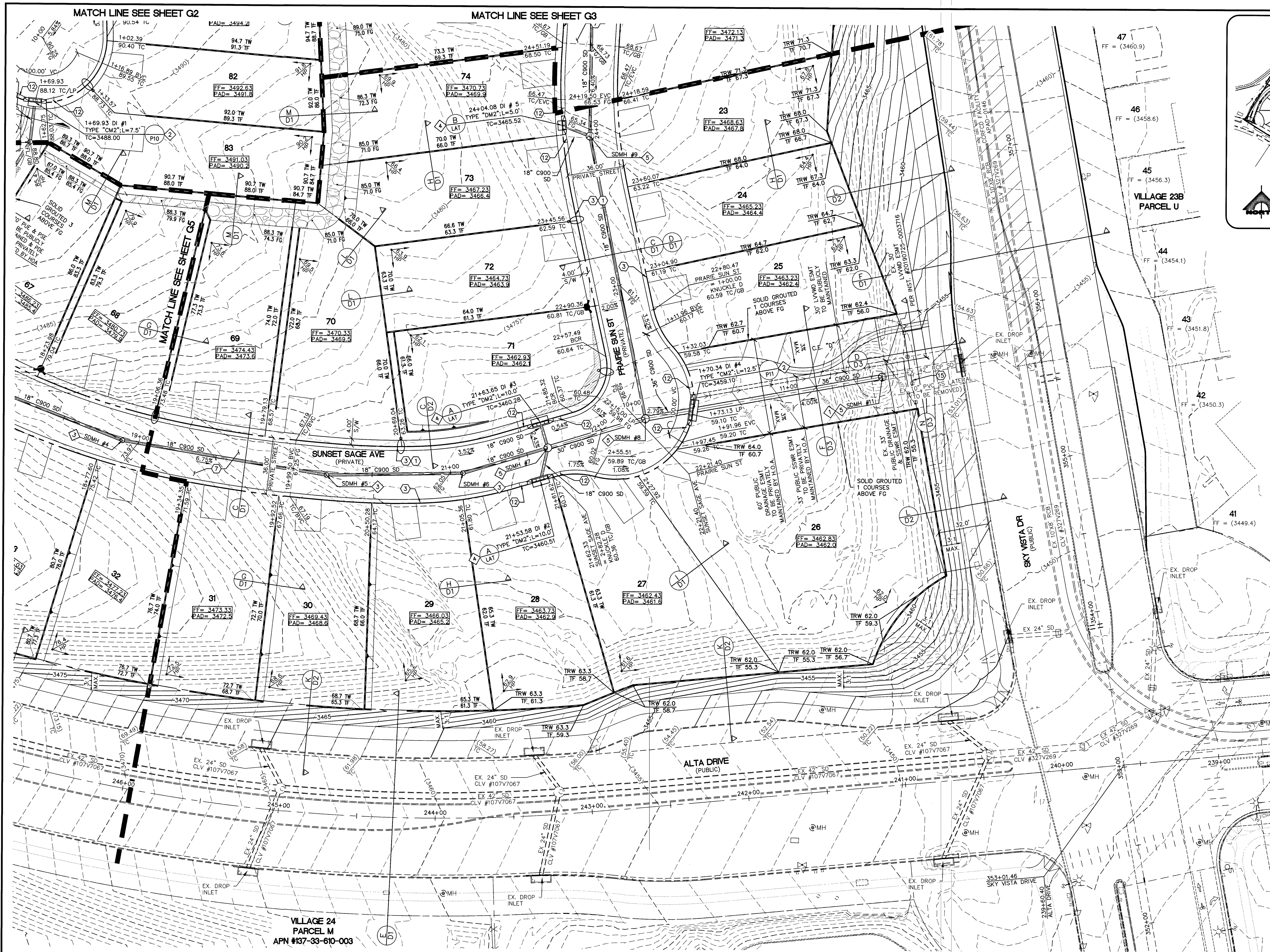
ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

PROJECT NO. 764-A149-001
DESIGN: 764-A149-001
DRAWN: 764-A149-001
CHECK: 764-A149-001
PLOT DATE: 09-22-19
PLOT TIME: 09:53:20

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
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F: 702.804.2299
gcnwengineering.com

PULTE HOMES
STARLING FOXTAIL
SUMMERLIN VILLAGE 24A PARCEL N
GRADING PLAN 5

DRAWING
G5
8 OF 37 SHTS



- CONSTRUCTION NOTES**
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HAO A. NGUYEN, P.E.
NEVADA PE #19396

09-22-19
DATE

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Call before you Dig
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NOTE

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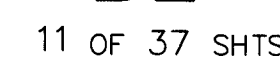
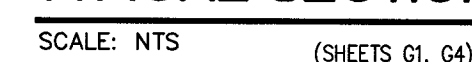
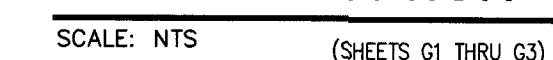
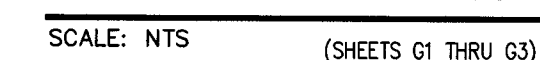
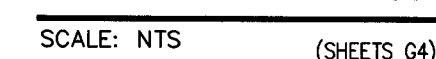
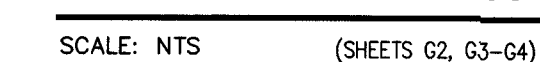
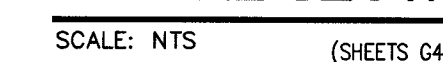
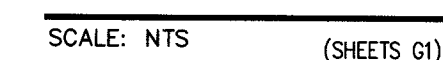
ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

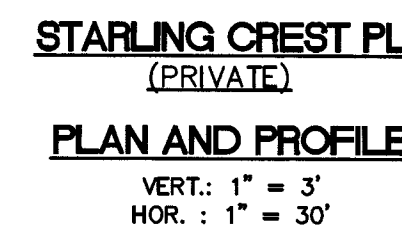
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DRAWN: [blank]
CHECK: [blank]
PLOT DATE: 09-22-19
PLOT TIME: 09:53:27

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gowingengineering.com

G6

9 OF 37 SHTS





DEPTH OF COVER DURING CONSTRUCTION
MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER
UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED
PRIOR TO WATERLINE INSTALLATION.



- APPROVED FOR CONSTRUCTION
- [Signature]*
- LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
- PROJECT NO. 138744 FIRST APPROVED DATE: 10/21/19
- LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
- MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

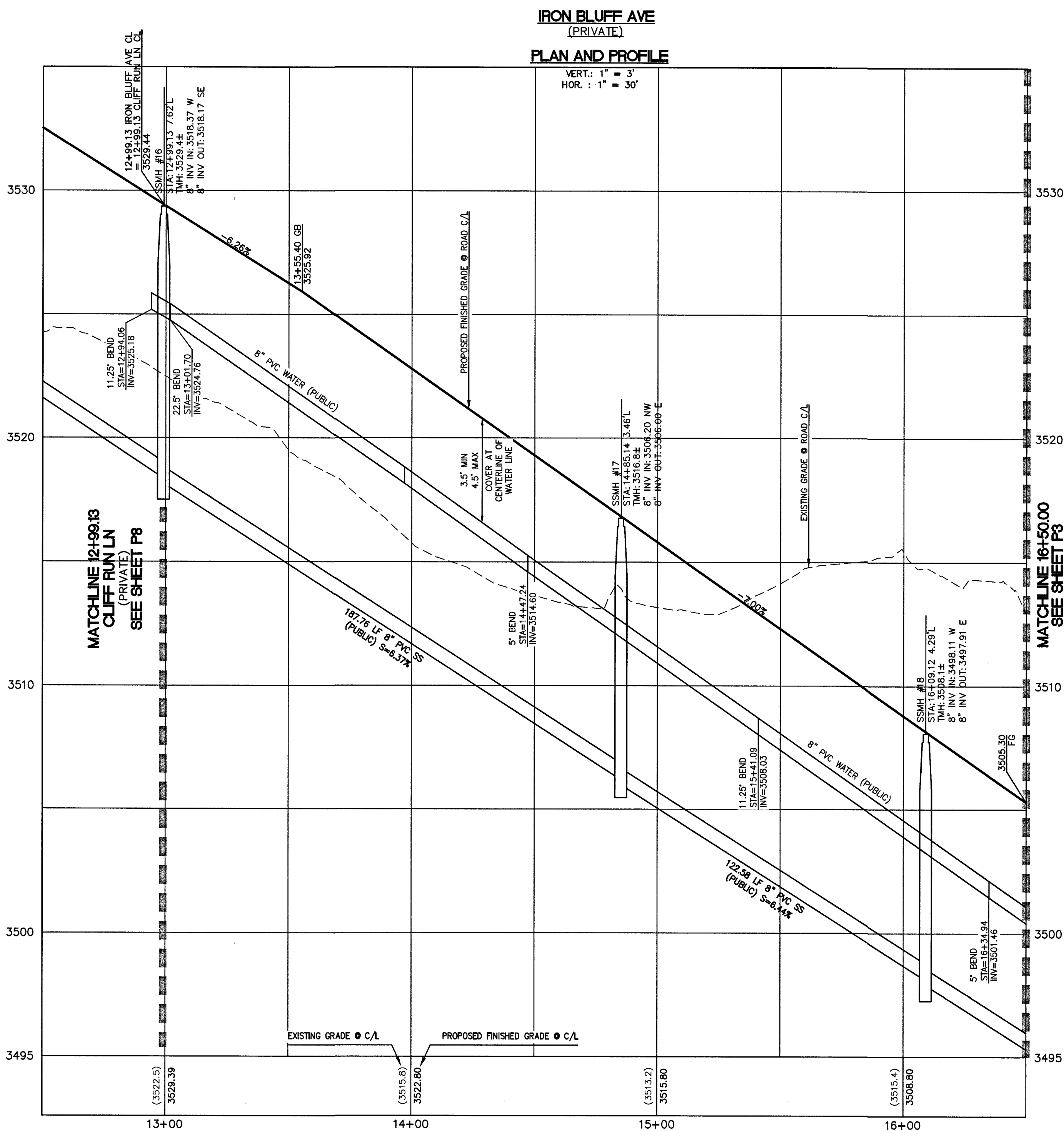
PULTE HOMES

STARLING FOX TAIL
SUMMERLIN VILLAGE 24A PARCEL N

STARLING CREST PL
STA. 10+00.00 TO STA. 11+82.50
PLAN AND PROFILE

DRAWING
P1
13 OF 37 SHTS

F-KUJ# 130744A Q3: 137-33-NE



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OR
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FAST

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before you
UnderGround
1-702-432-6300
FREWAY AIRTEL
SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD
POWER LINES. IT'S COSTLY.

**CALL BEFORE
YOU DO
OVERHEAD**

1-702-227-2929

SEWER CONNECTION NOTE

ONE OR MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

UTILITY APPROVAL

[Signature] 9/15/19

SOUTHWEST GAS CORPORATION DATE:

BENCHMARK:
 CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE
 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.
 ELEVATION: 3246.63 (FEET)
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NOTE
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AND TO BE PRIVATELY MAINTAINED BY THE HOA.

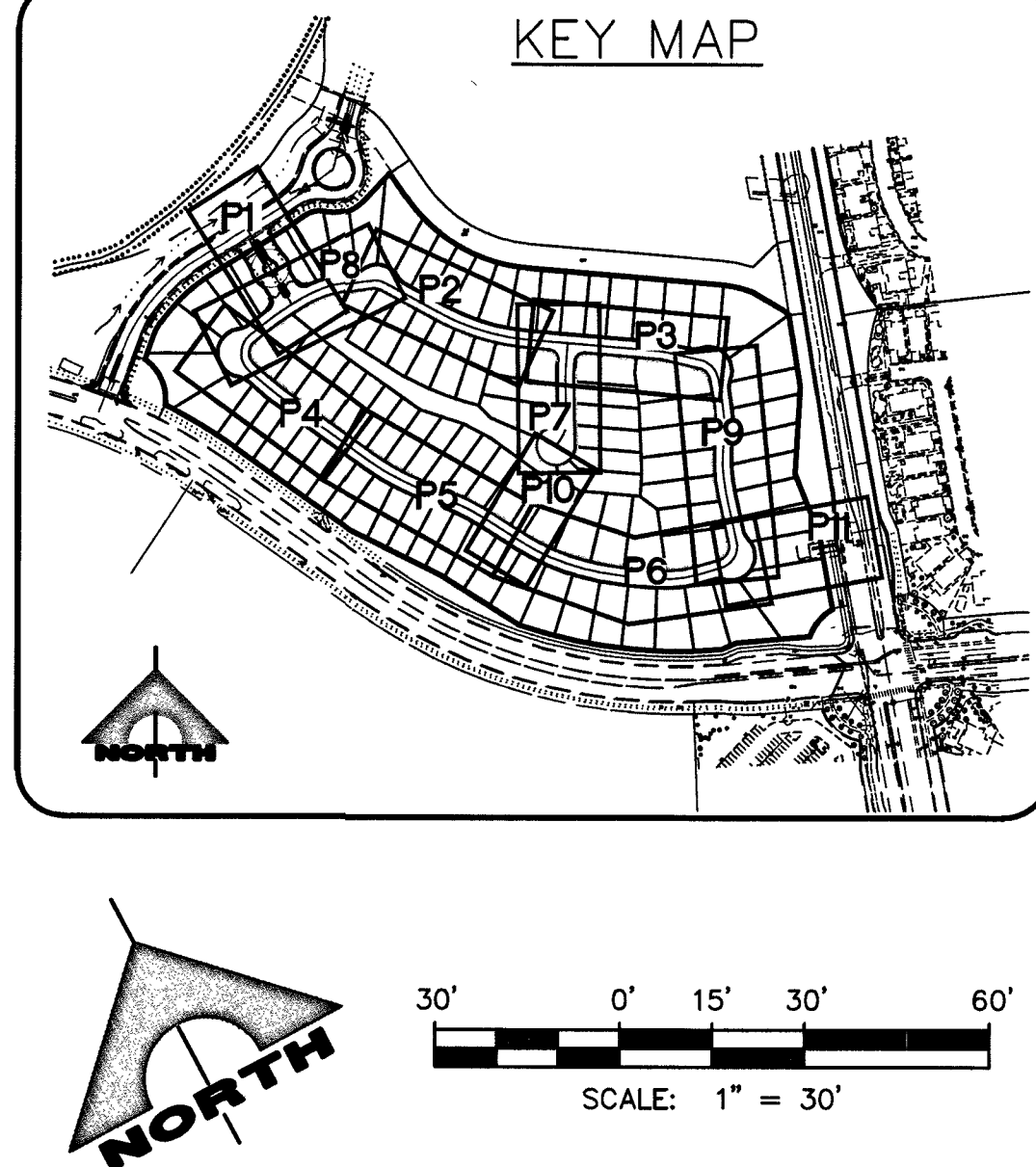
ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER
EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

TO ENSURE LYVWD ACCESS WITHIN EASEMENT
ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO LANDSCAPE BOULDERS, FENCE/ WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.

NOTE:
WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.

CONSTRUCTION NOTES

- 1 CONNECT TO EXISTING STORM DRAIN.
- 2 CONSTRUCT MODIFIED TYPE "CM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
- 3 CONSTRUCT 48" TYPE I STORM DRAIN MANHOLE PER STD. DWG 403.
- 4 CONSTRUCT MODIFIED TYPE "DM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
- 5 CONSTRUCT 60" TYPE III STORM DRAIN MANHOLE PER STD. DWG 406.1.
- 6 CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS, BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).
- 7 CONSTRUCT FULL STRENGTH GROUT PER DCSWCS 3.16.4, WATERTIGHT JOINTS USING AGENCY-APPROVED SEALS AT MANHOLE SECTIONS AND GRADE RINGS PER DCSWCS 3.16.2, AND RAVEN LINING SYSTEM OR WARREN ENVIRONMENTAL LINING SYSTEMS.
- 2 CONSTRUCT CONCRETE CAP PER DCSWCS SD-21.



PULTE HOMES

—STARLING FOX TAIL—
UMMERLIN VILLAGE 24A PARCEL N

IRON BLUFF AVE
STA. 12+99.33 TO STA. 16+50.00
PLAN AND PROFILE

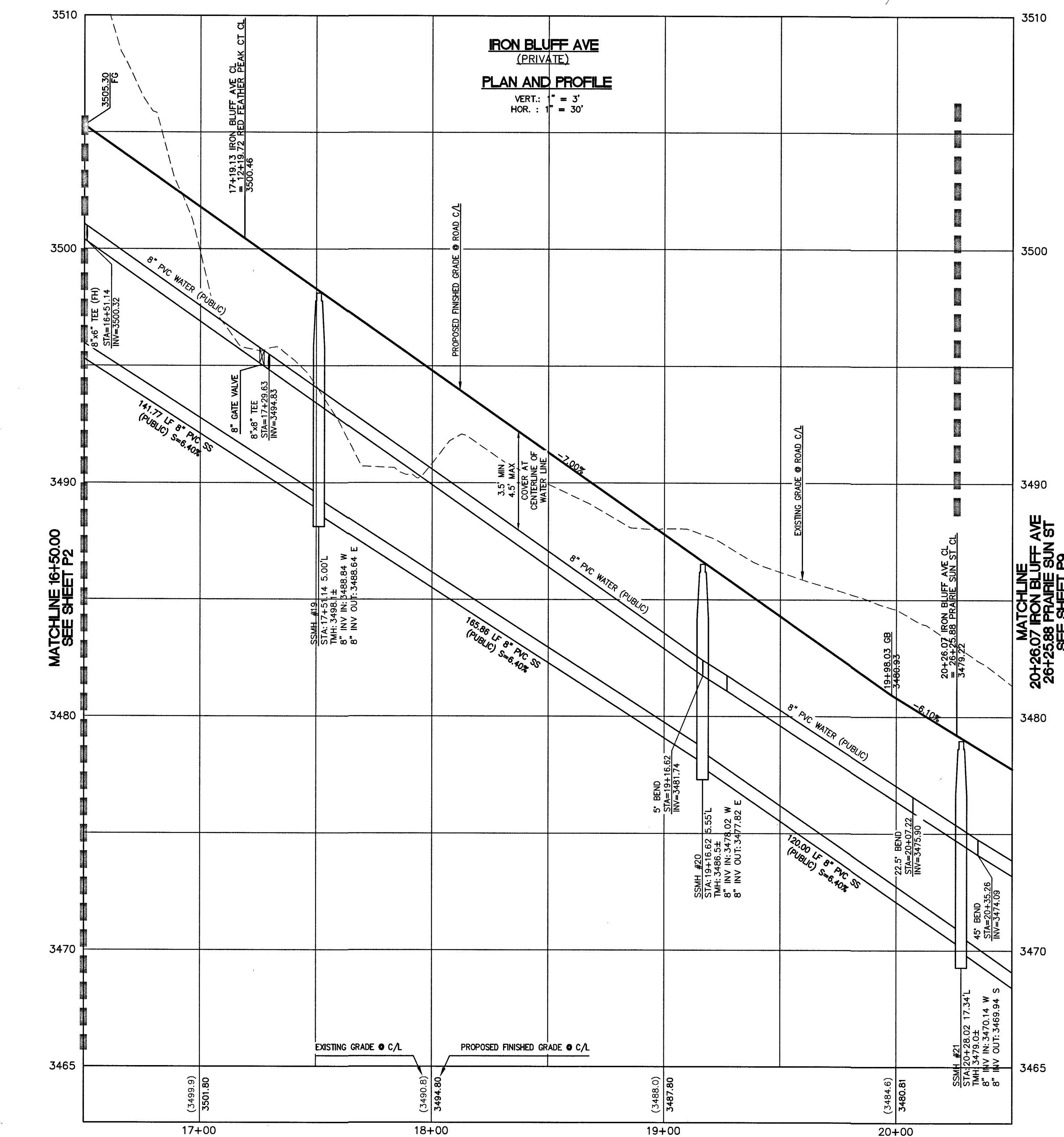
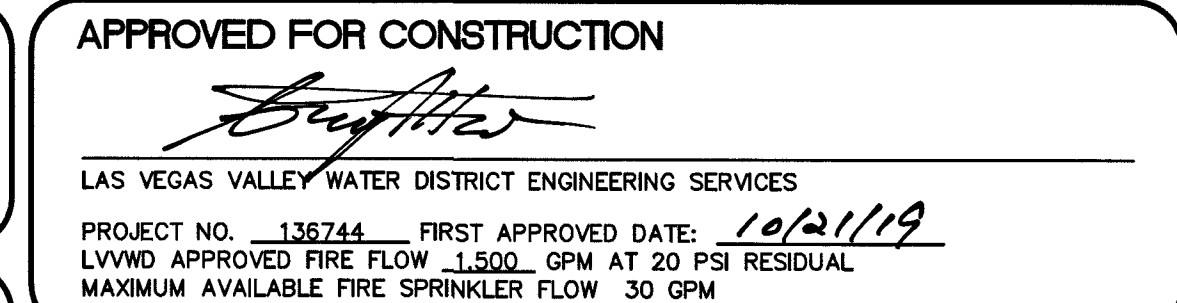
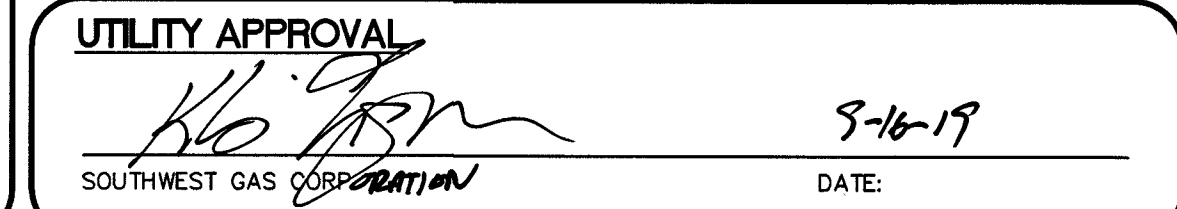
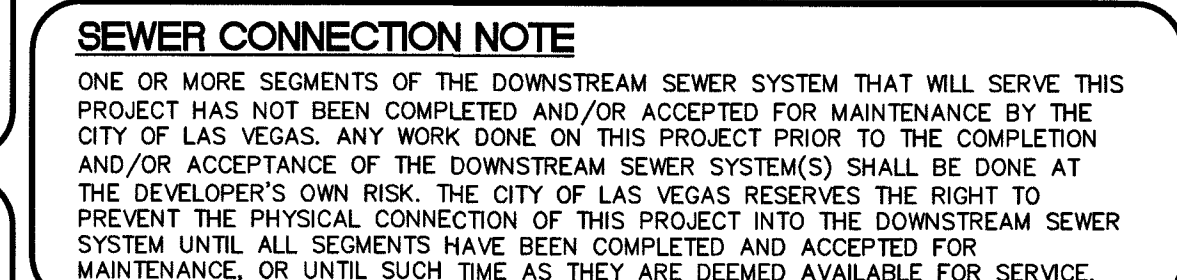
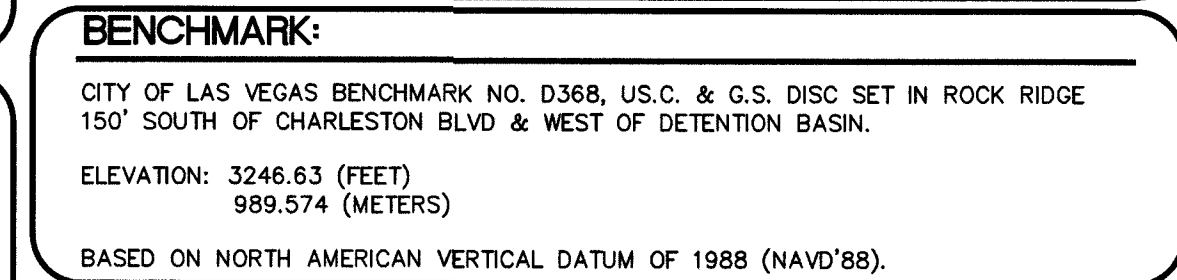
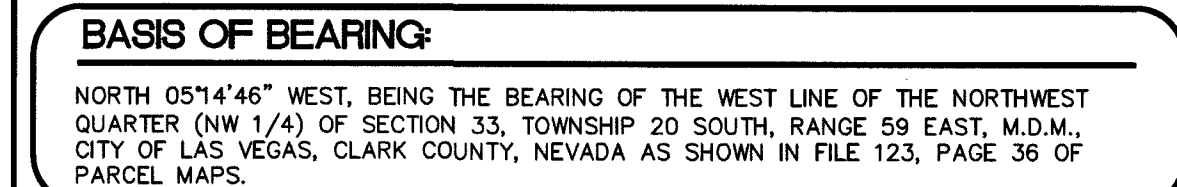
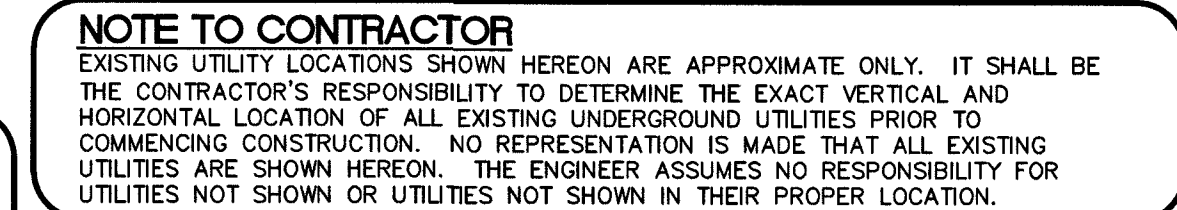
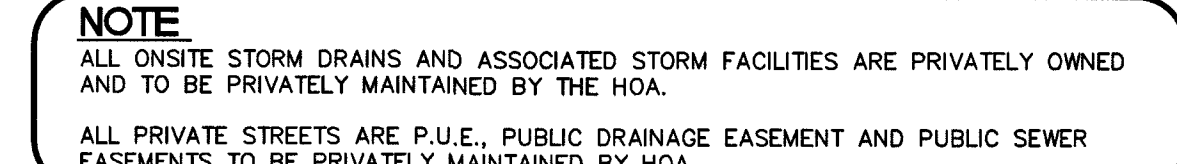
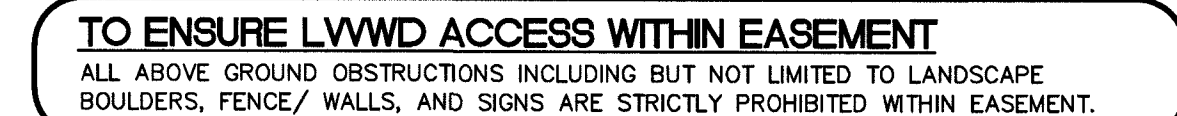
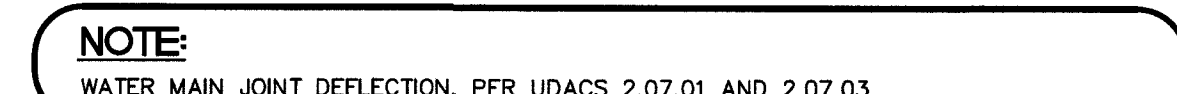
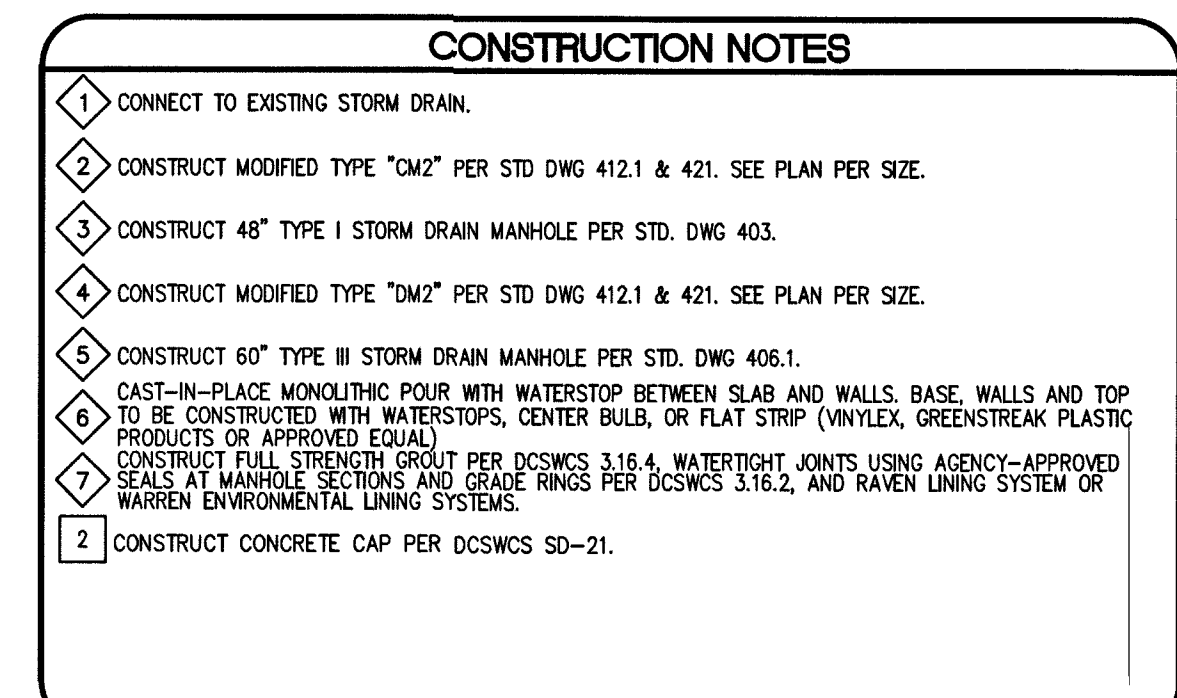
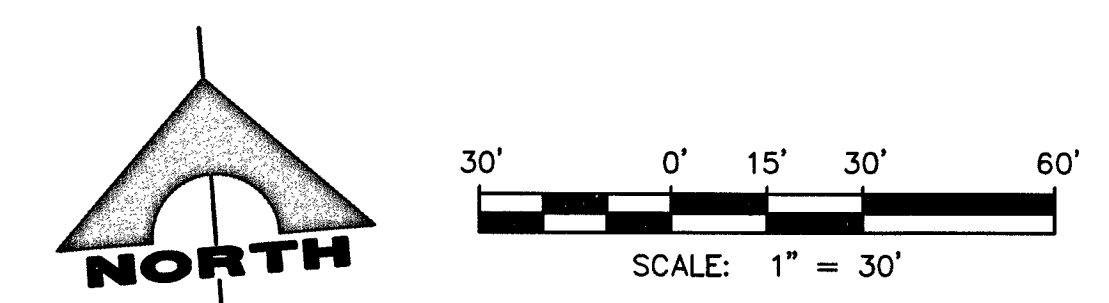
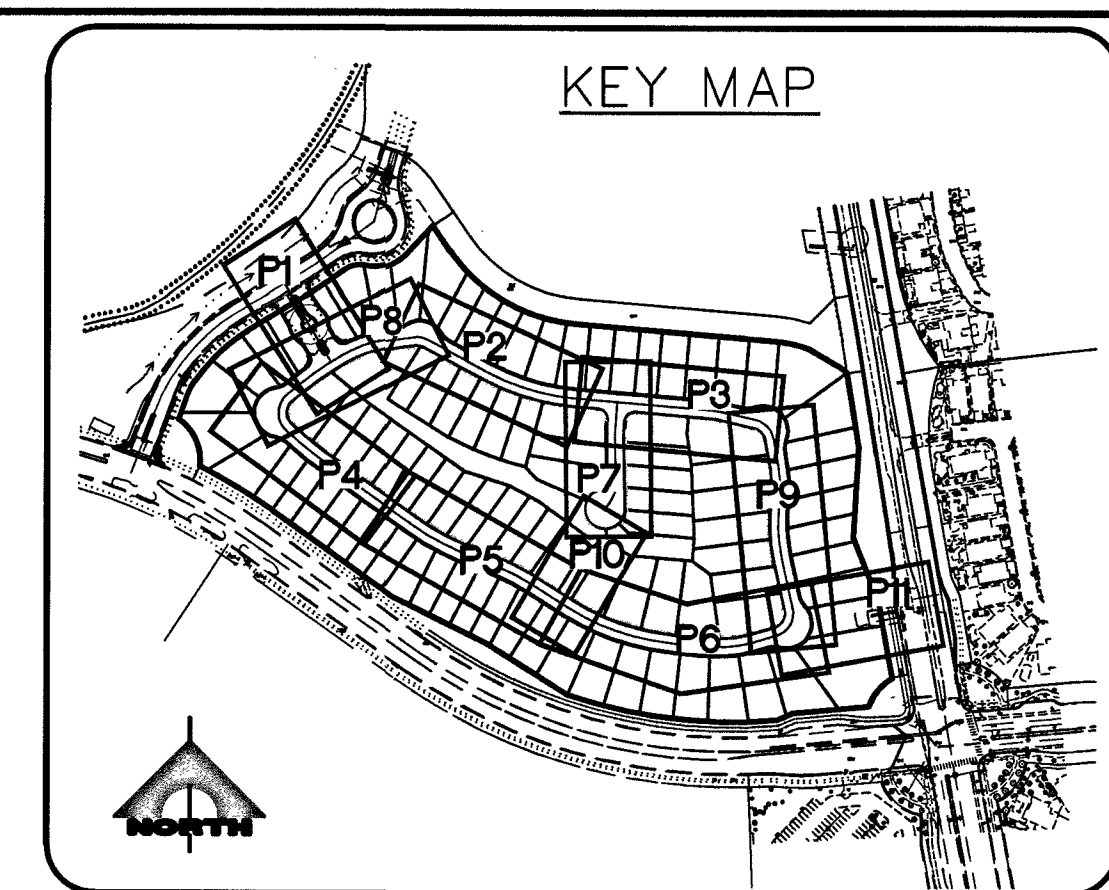
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gconengineering.com

GCW
ENGINEERS & SURVEYORS

© Products 760/V764-e149-001/DWG Production/764-149-001-PT-6.dwg
Nopolis, DeRose

PROJECT NO.	764-A149-001
DESIGN:	
DRAWN:	
CHECK:	
PLOT DATE:	09-16-19
PLOT TIME:	10:35:42

PROJ#:136744A QS:137-33-NE



Call before you Dig
Avoid cutting underground utility lines. It's costly.

Call
811

OR
1-800-227-2600

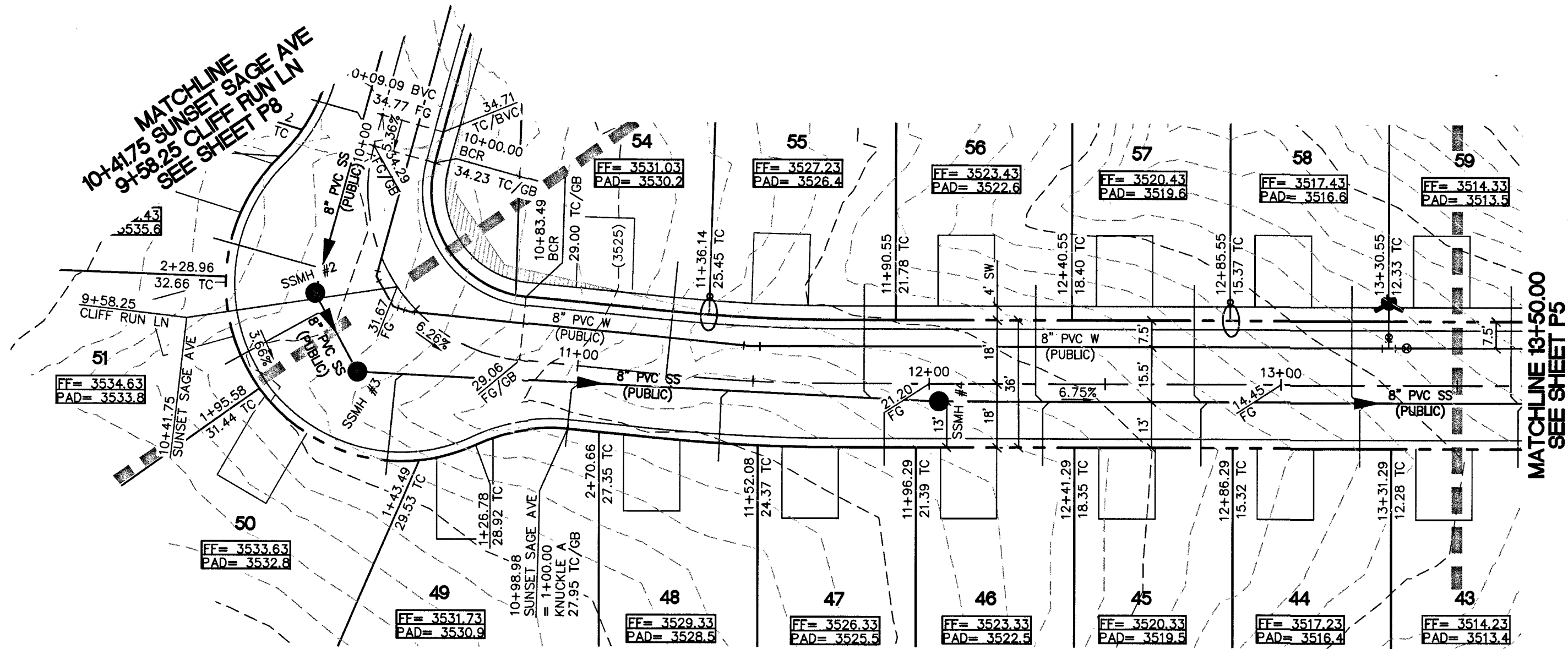
FAST
Call before you
UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION



DROP INLET NOTE
WHERE 10 FEET PARALLEL SEPARATION IS NOT
PRACTICABLE:
CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP
BETWEEN SLAB AND WALLS, BASE, WALLS AND TOP TO BE
CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT
STRIP. (W/YLEX, GREENSTREAK PLASTIC PRODUCTS OR
APPROVED EQUAL)

DEPTH OF COVER DURING CONSTRUCTION
MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER
UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED
PRIOR TO WATERLINE INSTALLATION.

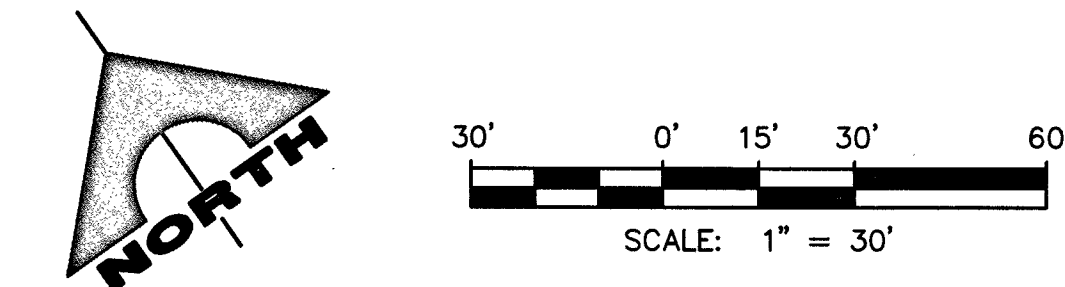
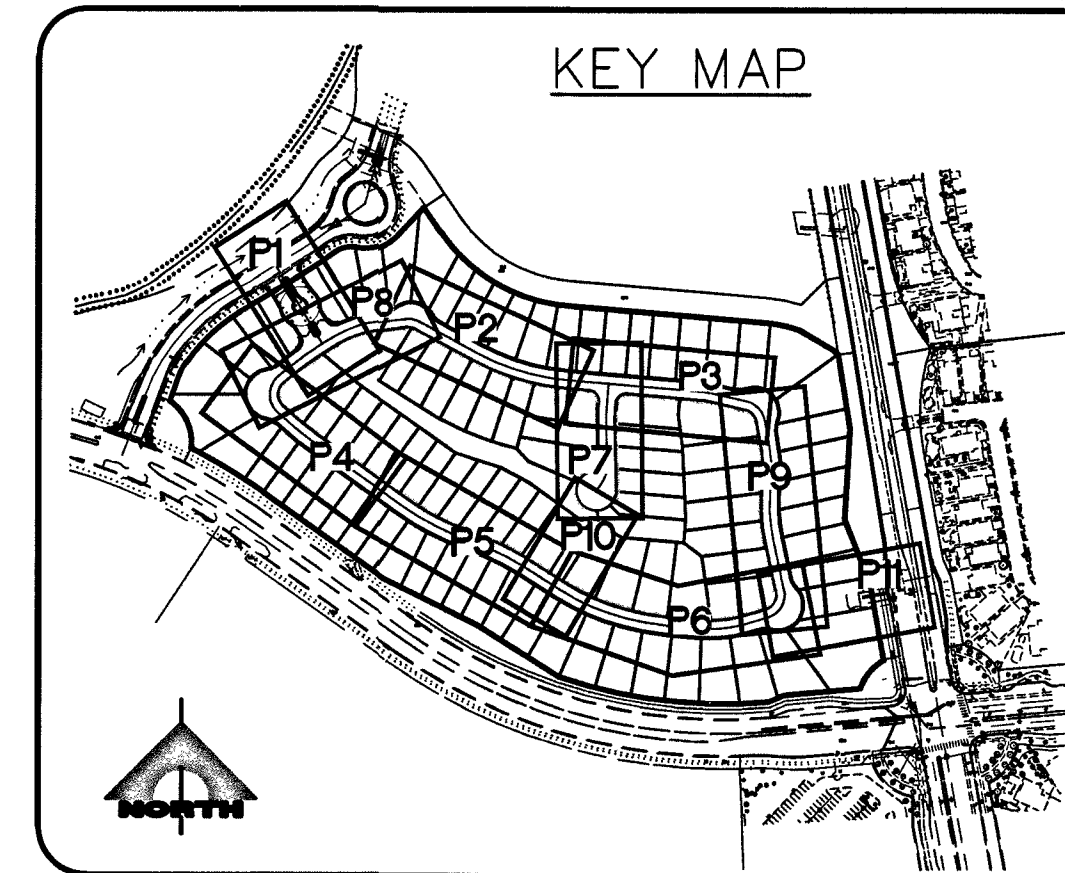
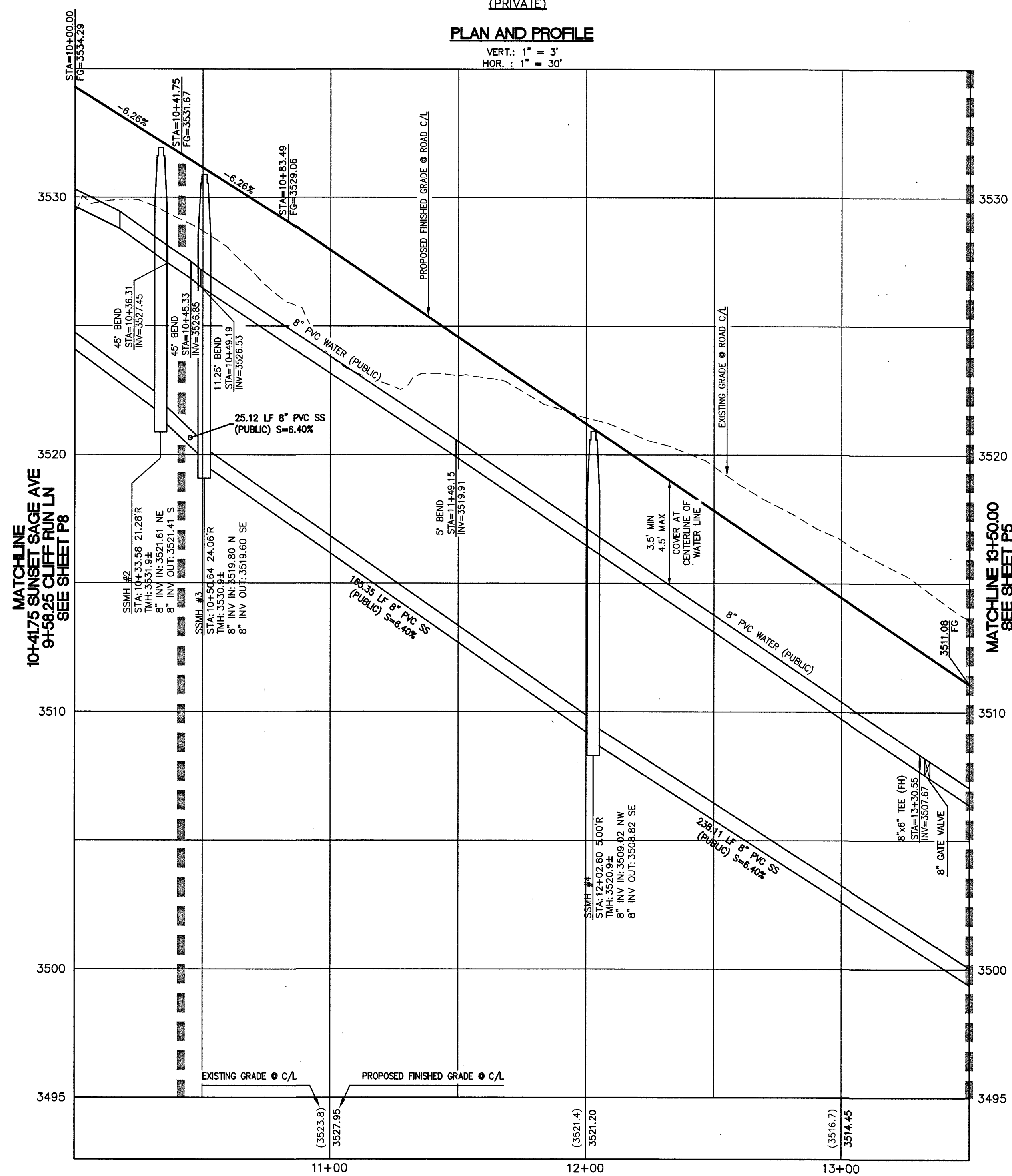
PULTE HOMES		GCV' 1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gcvengineering.com ENGINEERS \ SURVEYORS f:\Projects\7001764-a-0149-001\DWG\production\764-A149-001-CP1-6.dwg Nicholas DiRosa		STATE OF NEVADA HAO A. NGUYEN Exp. 12/31/2018 CIVIL 16353-1-001-19	
STARTING FOR TAIL SUMMERLIN VILLAGE 24A PARCEL N		PROJECT NO. 764-A149-001		DATE: 09-16-19	
IRON BLUFF AVE STA. 16+50.00 TO STA. 20+26.07 PLAN AND PROFILE		DESIGN: DRAWN: CHECK:		DATE: DATE: DATE:	
DRAWING P3 15 OF 37 SHTS		DESCRIPTION: DATE: DATE:		DATE: DATE: DATE:	



SUNSET SAGE AVE (PRIVATE)

PLAN AND PROFILE

VERT. : 1" = 3'
HOR. : 1" = 30'



CONSTRUCTION NOTES

1. CONNECT TO EXISTING STORM DRAIN.
2. CONSTRUCT MODIFIED TYPE "CM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
3. CONSTRUCT 48" TYPE I STORM DRAIN MANHOLE PER STD. DWG 403.
4. CONSTRUCT MODIFIED TYPE "CM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
5. CONSTRUCT 60" TYPE III STORM DRAIN MANHOLE PER STD. DWG 406.1.
6. CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).
7. CONSTRUCT FULL STRENGTH GROUT PER DCSWCS 3.16.4, WATER TIGHT JOINTS USING AGENCY-APPROVED SEALS AT MANHOLE SECTIONS AND GRADE RINGS PER DCSWCS 3.16.2, AND RAVEN LINING SYSTEM OR WARREN ENVIRONMENTAL LINING SYSTEMS.
8. CONSTRUCT CONCRETE CAP PER DCSWCS SD-21.

NOTE:

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.

TO ENSURE LVWD ACCESS WITHIN EASEMENT

ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO LANDSCAPE BOULDER, FENCE/ WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.

NOTE

ALL ON SITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.
ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

NOTE TO CONTRACTOR

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

BASIS OF BEARING:

NORTH 05°14'46" WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN IN FILE 123, PAGE 36 OF PARCEL MAPS.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

SEWER CONNECTION NOTE

ONE OR MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

UTILITY APPROVAL

SOUTHWEST GAS CORPORATION
DATE: 9-16-19

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO.: 136744 FIRST APPROVED DATE: 10/21/19
LVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

DROP INLET NOTE

WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE
CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP. (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL)

DEPTH OF COVER DURING CONSTRUCTION

MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.



PROJECT NO.
764-A149-001
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 09-16-19
PLOT TIME: 10:36:03

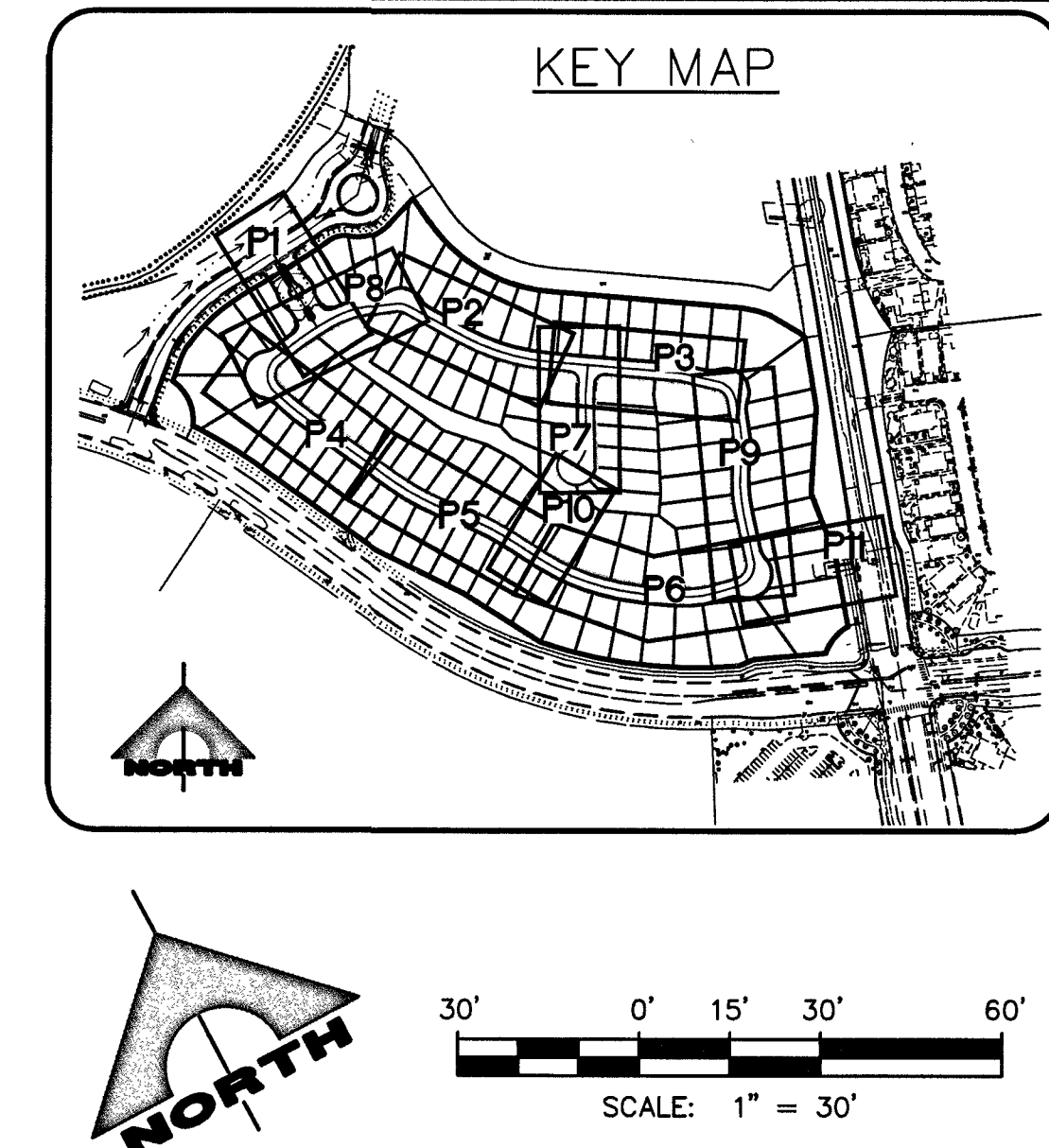
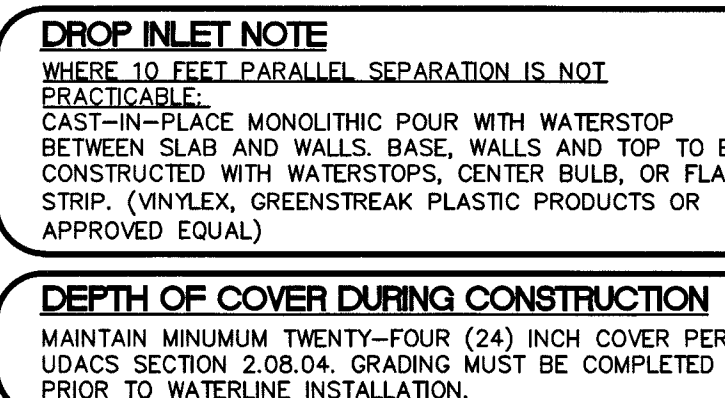
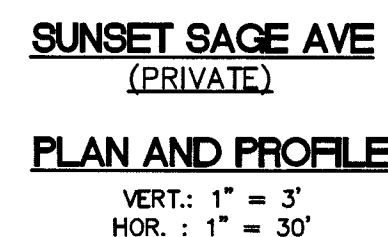
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gowerengineering.com
ENGINEERS & SURVEYORS
GCV
Nicholas Dierkes

PULTE HOMES
STARTING POSTAIL
SUMMERLIN VILLAGE 24A PARCEL N
SUNSET SAGE AVE
STA. 10+4175 TO STA. 13+50.00
PLAN AND PROFILE

DRAWING
P4
16 OF 37 SHTS

L# L19-01224 CLV DWG# 1075511

PROJ# 136744 QS137-33-NE



- ## CONSTRUCTION NOTES
1. CONNECT TO EXISTING STORM DRAIN.
 2. CONSTRUCT MODIFIED TYPE "DM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
 3. CONSTRUCT 48" TYPE I STORM DRAIN MANHOLE PER STD. DWG 403.
 4. CONSTRUCT MODIFIED TYPE "DM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
 5. CONSTRUCT 60" TYPE III STORM DRAIN MANHOLE PER STD. DWG 406.1.
 6. CAST-IN-PLACE MONOLITHIC PUMP WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP TO BE CONSTRUCTED WITH "CM2" TYPES, CENTER BOLD, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).
 7. CONSTRUCT FULL STRENGTH GROUT PER DCSWCS 316.4, WATERIGHT JOINTS USING AGENCY-APPROVED SEALS AT MANHOLE SECTIONS AND GRADE RINGS PER DCSWCS 316.2, AND RAVEN LINING SYSTEM OR WARREN ENVIRONMENTAL LINING SYSTEMS.
 2. CONSTRUCT CONCRETE CAP PER DCSWCS SD-21.

NOTE:
WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.

TO ENSURE LVWD ACCESS WITHIN EASEMENT
ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO LANDSCAPE BOULDERS, FENCE/ WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT

NOTE
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BASIS OF BEARING:

NORTH 05°14'46" WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN IN FILE 123, PAGE 36 OF PARCEL MAPS.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D36B, U.S.C. & G.S. DISC SET IN ROCK RIDGE
150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3248.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

SEWER CONNECTION NOTE

ONE OR MORE SEGMENTS OF THE DOWNSTEAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS PRIOR TO THIS PROJECT. THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTEAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTEAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR SERVICE. UNTIL SUCH TIME, THE DEVELOPER SHALL BE RESPONSIBLE FOR SERVICE

UTILITY APPROVAL

[Signature] 9-16-19

SOUTHWEST GAS CORPORATION DATE:

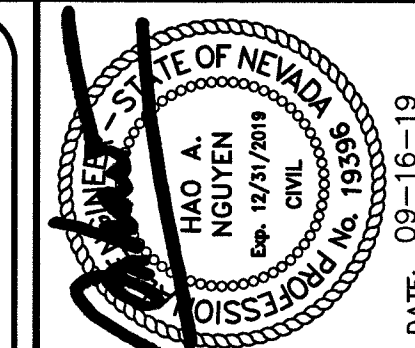
APPROVED FOR CONSTRUCTION

[Signature]

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 136744 FIRST APPROVED DATE: 6/21/19
LYVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

L# L19-01224	CLV DWG# 1074517
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[illegible]

PROJECT NO.	764-A149-001
DESIGN:	
DRAWN:	
CHECK:	
PLOT DATE:	09-16-19
PLOT TIME:	10:36:13

GCM
ENGINEERS \ SURVEYORS

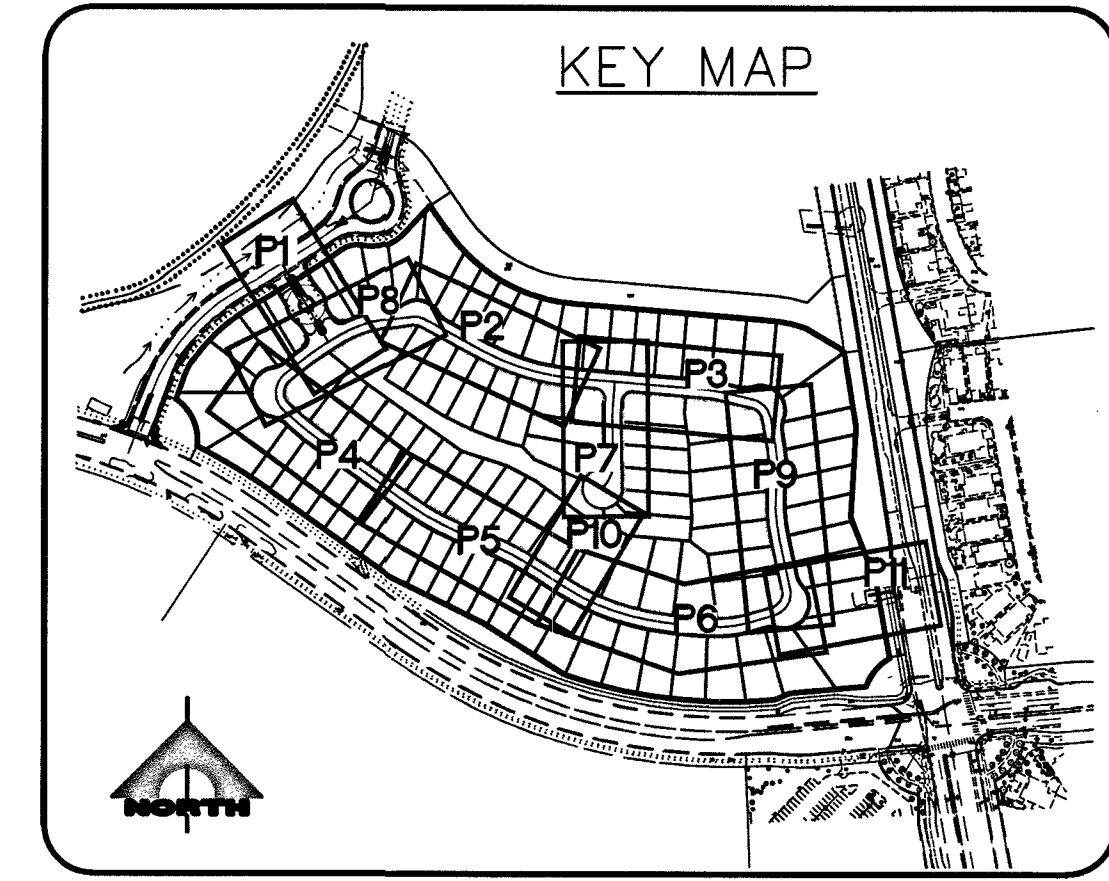
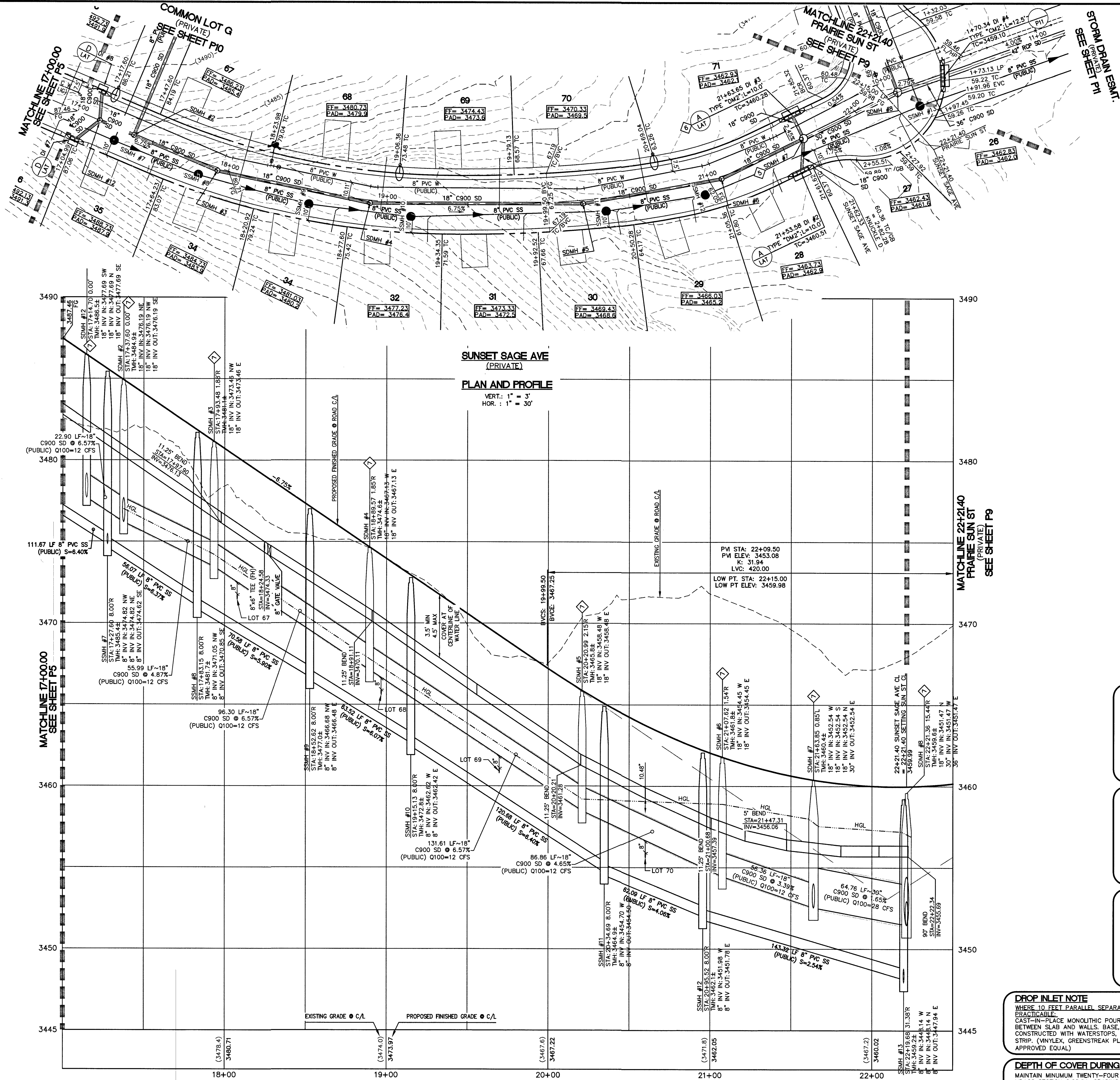
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcmengineering.com

Projects 7/00-7/04 7/04-2/01 2/01-6/04 6/04-12/04 12/04-6/05
Projects 7/00-7/04 7/04-2/01 2/01-6/04 6/04-12/04 12/04-6/05

PULTE HOMES	STARTING: 80X241L SUMMERLIN VILLAGE 240A PARCEL N	SUNSET SAGE AVE STA. 13+50.00 TO STA. 71+00.00 PLAN AND PROFILE
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DRAWING
P5
17 OF 37 SHTS

PROJ#:136744A QS:137-33-NE



- CONSTRUCTION NOTES**
1. CONNECT TO EXISTING STORM DRAIN.
 2. CONSTRUCT MODIFIED TYPE "CM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
 3. CONSTRUCT 48" TYPE I STORM DRAIN MANHOLE PER STD. DWG 403.
 4. CONSTRUCT MODIFIED TYPE "CM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
 5. CONSTRUCT 60" TYPE III STORM DRAIN MANHOLE PER STD. DWG 406.1.
 6. CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS, BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).
 7. CONSTRUCT FULL STRENGTH GROUT PER DCSWCS 3.16.4, WATER TIGHT JOINTS USING AGENCY-APPROVED SEALS AT MANHOLE SECTIONS AND GRADE RINGS PER DCSWCS 3.16.2, AND RAVEN LINING SYSTEM OR WARREN ENVIRONMENTAL LINING SYSTEMS.
 8. CONSTRUCT CONCRETE CAP PER DCSWCS SD-21.

NOTE:
WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.

TO ENSURE LWWWD ACCESS WITHIN EASEMENT
ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO LANDSCAPE BOLLARDS, FENCE, WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.

NOTE:
ALL ON SITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.
ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

NOTE TO CONTRACTOR
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BASIS OF BEARING:
NORTH 05°14'46" WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN IN FILE 123, PAGE 36 OF PARCEL MAPS.

BENCHMARK:
CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.
ELEVATION: 3246.63 (FEET)
989.574 (METERS)
BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

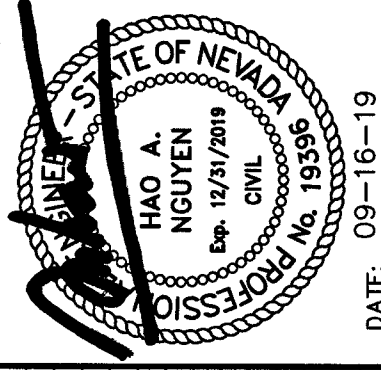
SEWER CONNECTION NOTE
ONE OR MORE SEGMENTS OF THE DOWNSIDE SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSIDE SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSIDE SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

UTILITY APPROVAL
[Signature] 9-16-19
DATE: 9-16-19
SOUTHWEST GAS CORPORATION

APPROVED FOR CONSTRUCTION
[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136744 FIRST APPROVED DATE: 10/21/19
LWWWD APPROVED FLOW 11,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

DROP INLET NOTE
WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE
CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS, BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL)

DEPTH OF COVER DURING CONSTRUCTION
MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.



DATE	AGN	APP	DATE	AGN	APP	DATE	AGN	APP	DATE	AGN	APP

PROJECT NO. 764-A149-001

DESIGN: 764-A149-001

DRAWN: 764-A149-001

CHECK: 764-A149-001

PLOT DATE: 09-16-19

PLOT TIME: 10:36:24

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcnvengr.com

GCV' ENGINEERS & SURVEYORS

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcnvengr.com

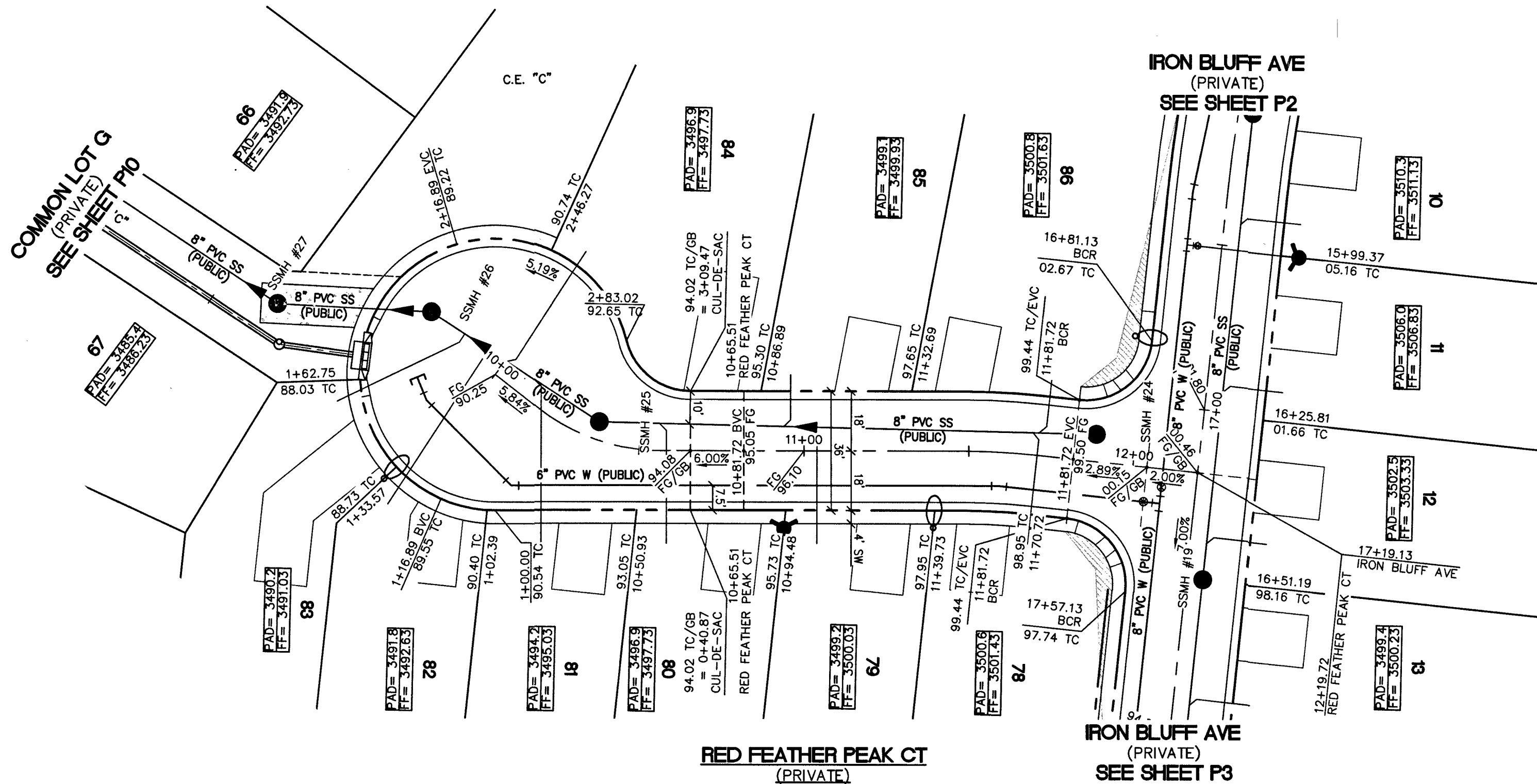
PULTE HOMES

STARRING FOXTAIL
SUMMERLIN VILLAGE 24A PARCEL N

SUNSET SAGE AVE
STA. 17+00.00 TO STA. 22+21.40
PLAN AND PROFILE

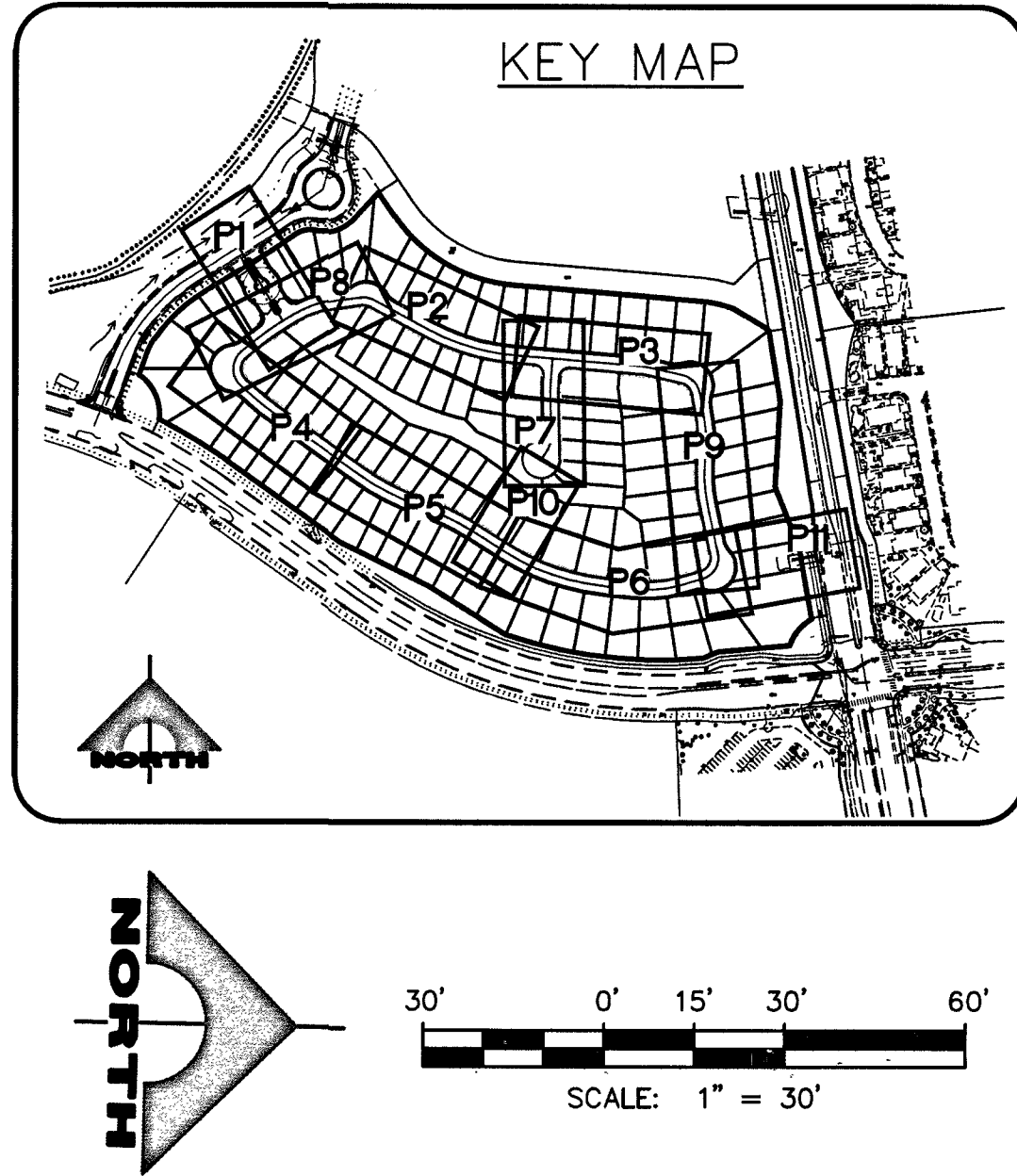
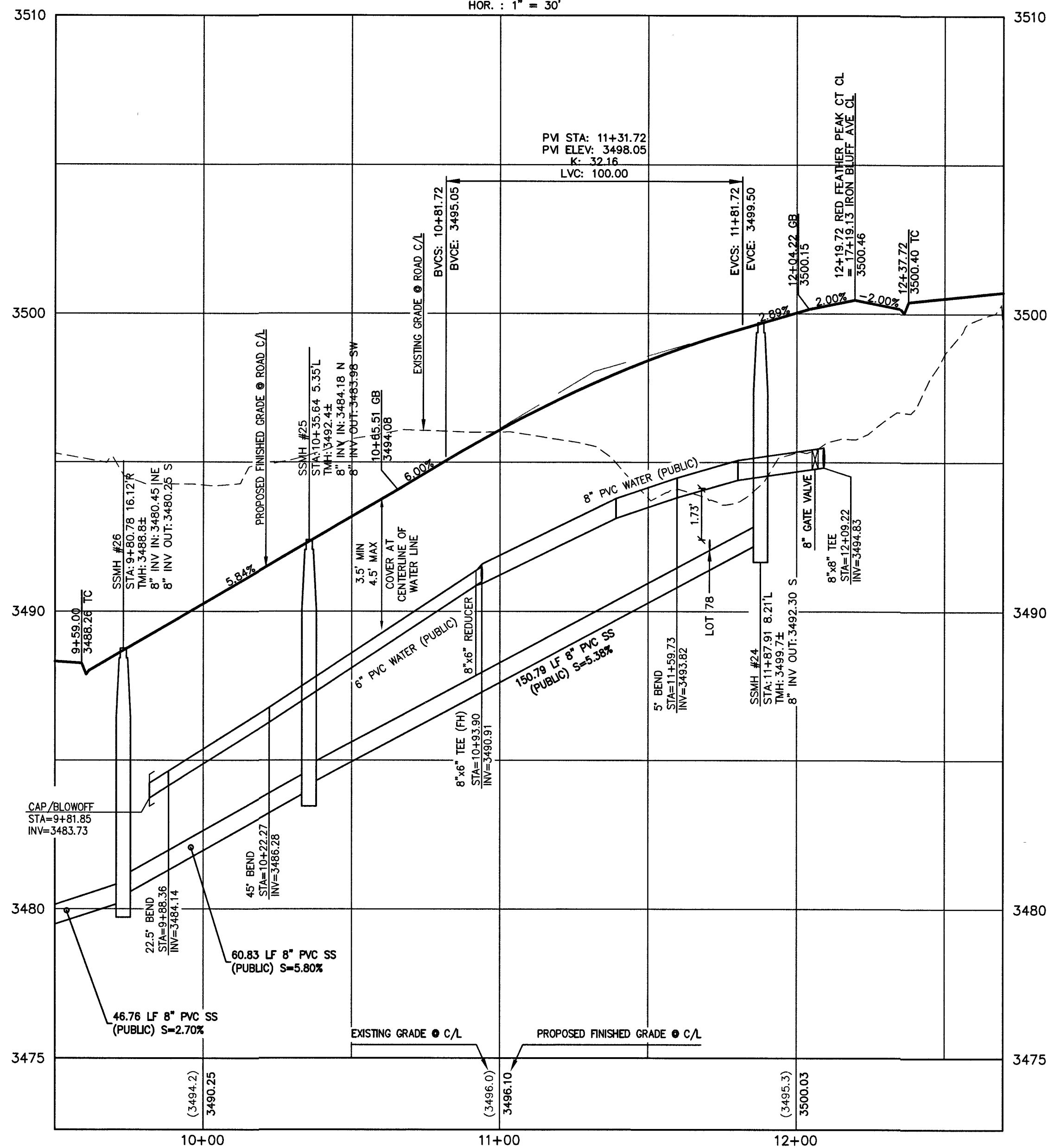
DRAWING
P6
18 OF 37 SHTS

PROJ# 136744A QS-137-33-NE



PLAN AND PROFILE

VERT.: 1" = 3'
HOR.: 1" = 30'



CONSTRUCTION NOTES

1. CONNECT TO EXISTING STORM DRAIN.
2. CONSTRUCT MODIFIED TYPE "DM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
3. CONSTRUCT 48" TYPE I STORM DRAIN MANHOLE PER STD. DWG 403.
4. CONSTRUCT MODIFIED TYPE "DM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
5. CONSTRUCT 60" TYPE III STORM DRAIN MANHOLE PER STD. DWG 406.1.
6. CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS, BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).
7. CONSTRUCT FULL STRENGTH GROUT PER DCSWCS 3.16.4, WATER TIGHT JOINTS USING AGENCY-APPROVED SEALS AT MANHOLE SECTIONS AND GRADE RINGS PER DCSWCS 3.16.2, AND RAVEN LINING SYSTEM OR WARREN ENVIRONMENTAL LINING SYSTEMS.
8. CONSTRUCT CONCRETE CAP PER DCSWCS SD-21.

NOTE:

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.

TO ENSURE LWWO ACCESS WITHIN EASEMENT

ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO LANDSCAPE, BOLLARDS, FENCE, WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.

NOTE

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NOTE TO CONTRACTOR

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BASIS OF BEARING:

NORTH 051°46' WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN IN FILE 123, PAGE 36 OF PARCEL MAPS.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

SEWER CONNECTION NOTE

ONE OR MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

UTILITY APPROVAL

SOUTHWEST GAS CORPORATION
DATE: 9-16-19

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 138744, FIRST APPROVED DATE: 10/21/19
LVWD APPROVED FIRE FLOW: 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW: 30 GPM

Call before you Dig
Avoid cutting underground utility lines. It's costly.



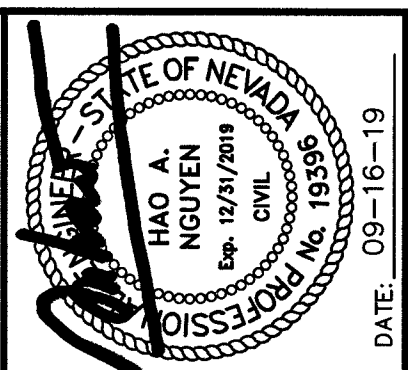
1-800-227-2800

FAST
Call before you UnderGround
1-702-432-5300
FIREWAY AND INTERSTATE SYSTEM OF TRANSPORTATION

CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

DROP INLET NOTE
WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:
CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS, BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP. (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL)

DEPTH OF COVER DURING CONSTRUCTION
MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.



PROJECT NO.	DESIGN	DRAWN	CHECK	PLOT	DATE	TIME
764-A149-001					09-16-19	10:37:16

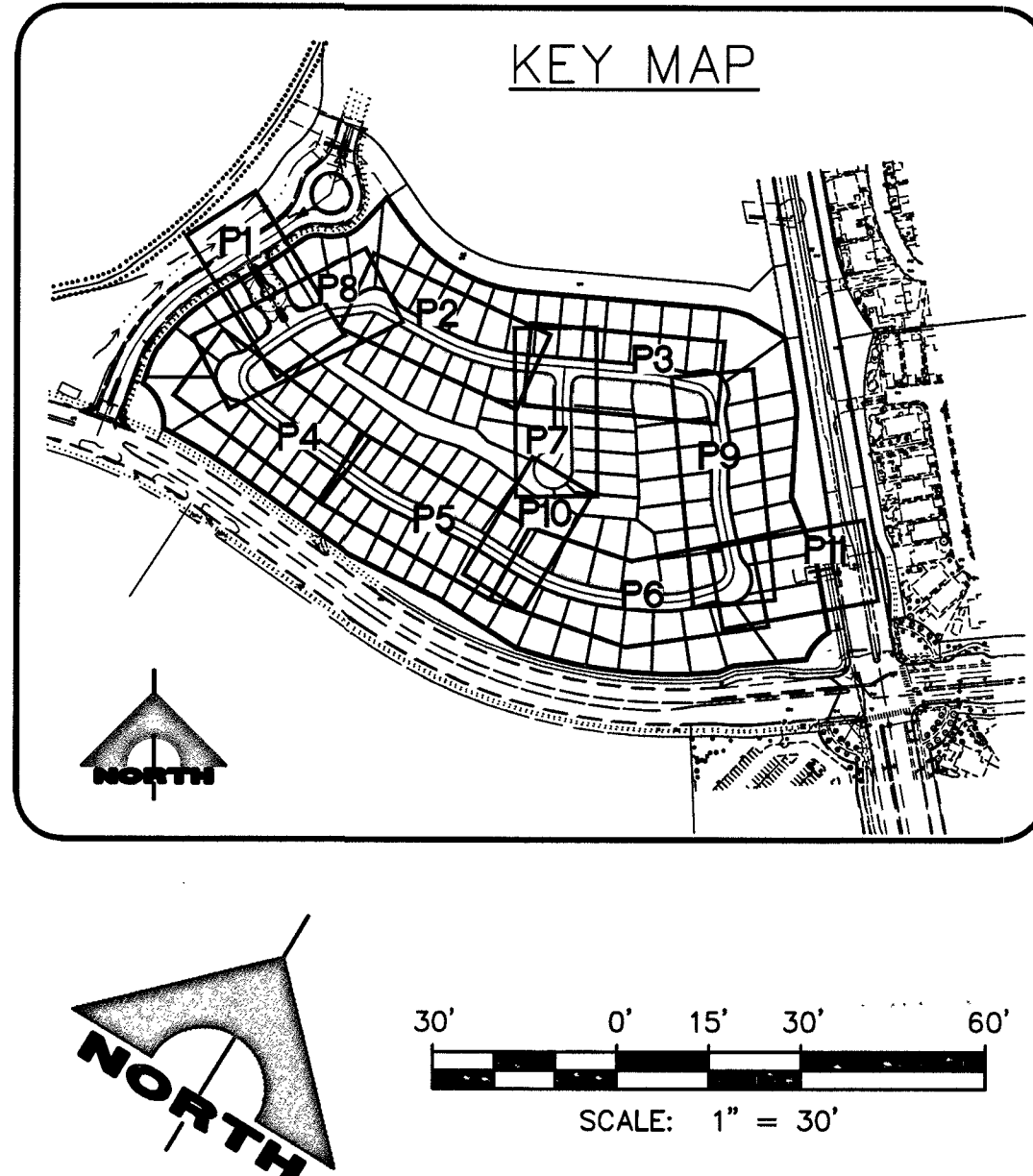
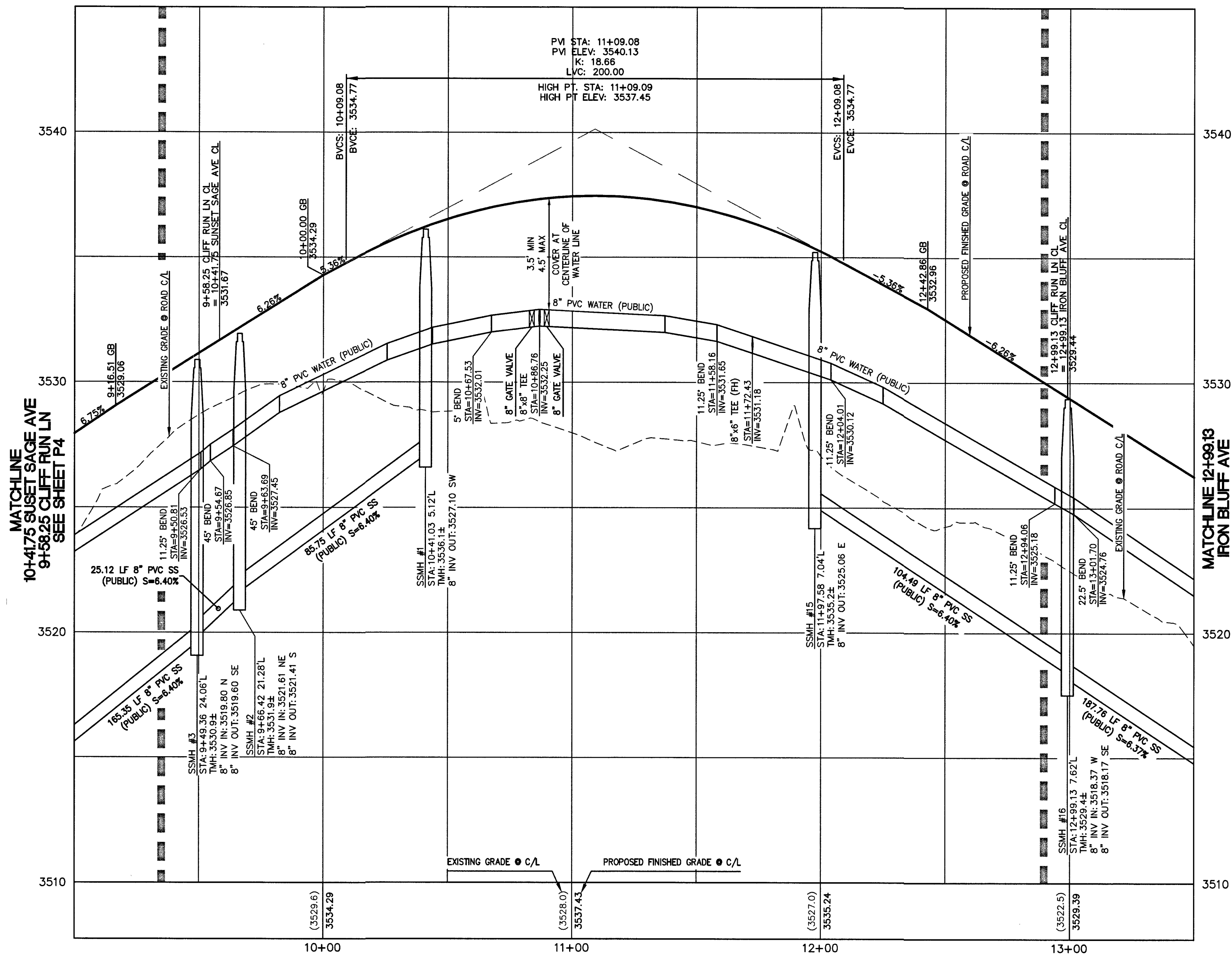
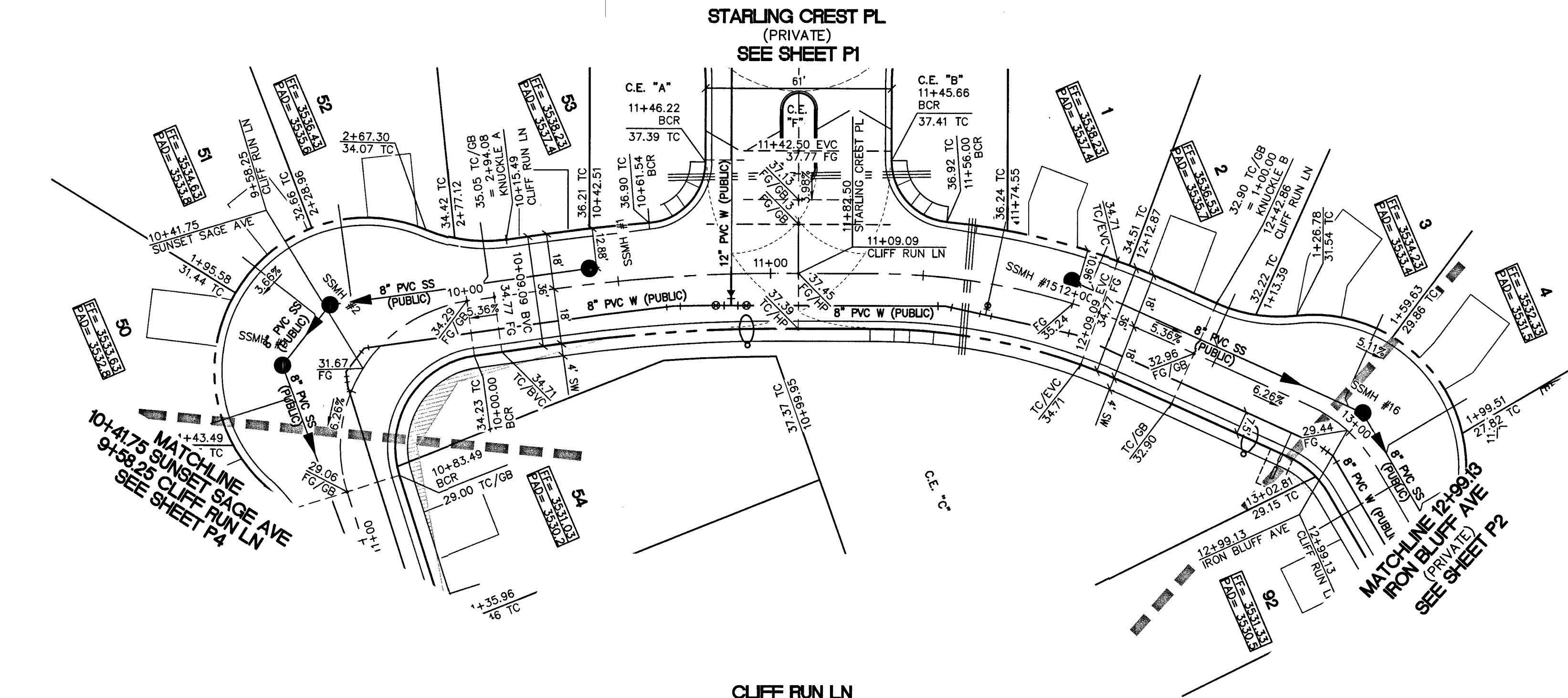
GCV
ENGINEERS & SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com

PULTE HOMES
STARLING FOXTAIL
SUMMERLIN VILLAGE 24A PARCEL N
RED FEATHER PEAK CT
STA 91+80.00 TO STA 12+49.72
PLAN AND PROFILE

DRAWING
P7
19 OF 37 SHTS

L# 119-01224 CLV DWG# 1072511

PROJ# 138744A QS:137-33-NE



- CONSTRUCTION NOTES
1. CONNECT TO EXISTING STORM DRAIN.
 2. CONSTRUCT MODIFIED TYPE "CM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
 3. CONSTRUCT 48" TYPE I STORM DRAIN MANHOLE PER STD. DWG 403.
 4. CONSTRUCT MODIFIED TYPE "CM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
 5. CONSTRUCT 60" TYPE II STORM DRAIN MANHOLE PER STD. DWG 406.1.
 6. CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS, BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).
 7. CONSTRUCT FULL STRENGTH GROUT PER DCSWCS 3.16.4, WATER TIGHT JOINTS USING AGENCY-APPROVED SEALS AT MANHOLE SECTIONS AND GRADE RINGS PER DCSWCS 3.16.2, AND RAVEN LINING SYSTEM OR WARREN ENVIRONMENTAL LINING SYSTEMS.
 8. CONSTRUCT CONCRETE CAP PER DCSWCS SD-21.

NOTE:

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.

TO ENSURE LWWD ACCESS WITHIN EASEMENT

ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO LANDSCAPE BOLDERS, FENCE, WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.

NOTE

ALL ON SITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.

ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

NOTE TO CONTRACTOR

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

BASIS OF BEARING:

NORTH 05°14'46" WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN IN FILE 123, PAGE 36 OF PARCEL MAPS.

BENCHMARK:

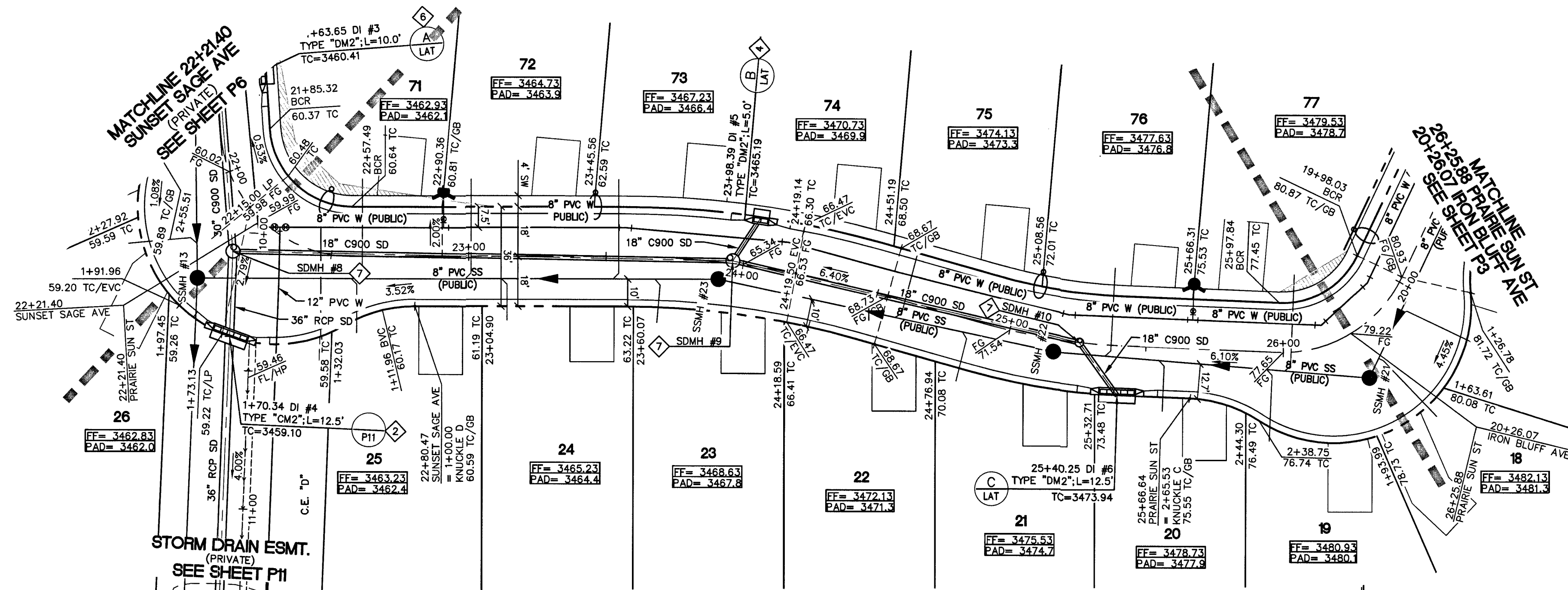
CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

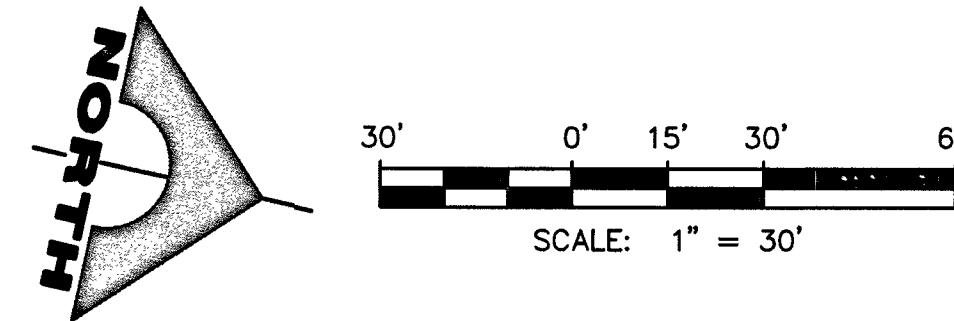
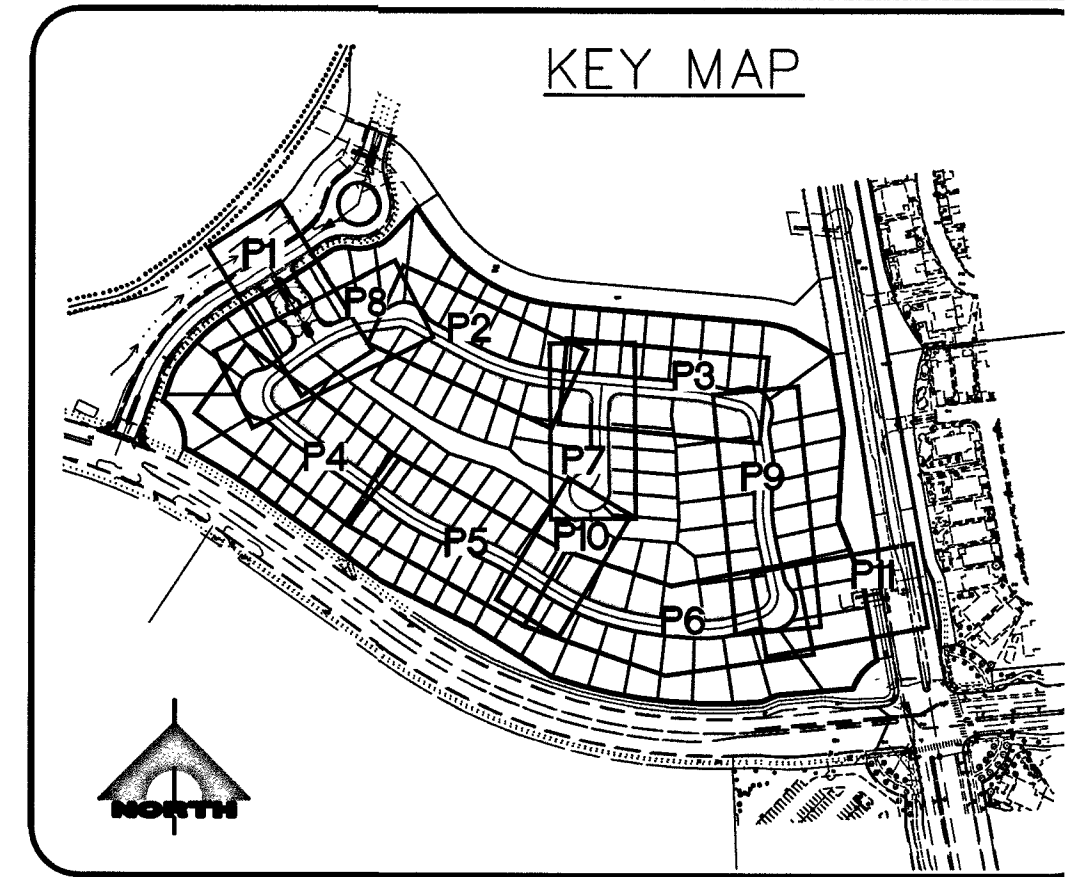
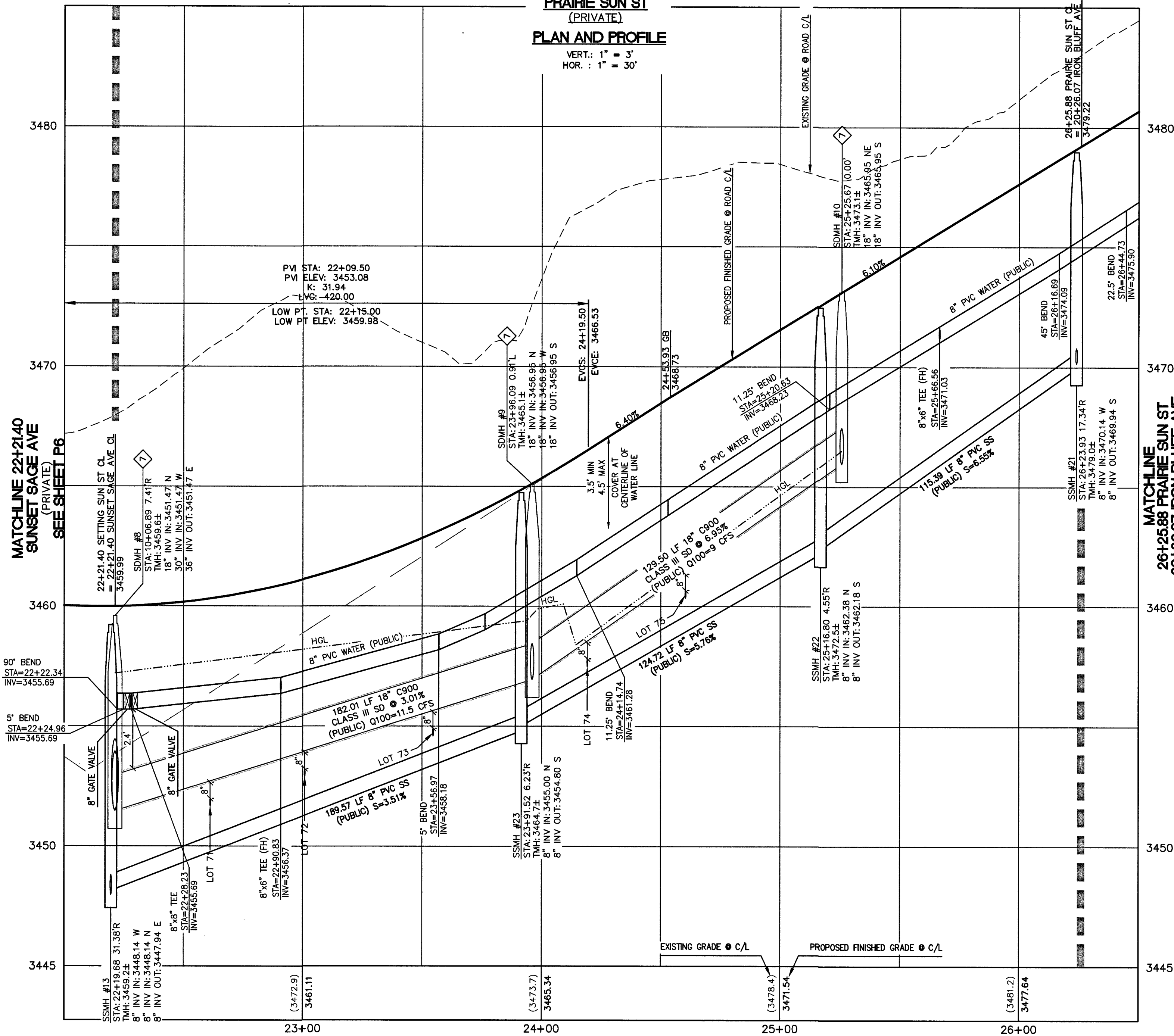
BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

SEWER CONNECTION NOTE

ONE OR MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR



**PRAIRIE SUN ST
(PRIVATE)
PLAN AND PROFILE**
VERT.: 1" = 4'
HOR.: 1" = 30'



CONSTRUCTION NOTES

1. CONNECT TO EXISTING STORM DRAIN.
2. CONSTRUCT MODIFIED TYPE "CM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
3. CONSTRUCT 48" TYPE I STORM DRAIN MANHOLE PER STD. DWG 403.
4. CONSTRUCT MODIFIED TYPE "DM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
5. CONSTRUCT 60" TYPE III STORM DRAIN MANHOLE PER STD. DWG 406.1.
6. CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS, BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).
7. CONSTRUCT FULL STRENGTH GROUT PER DCSWCS 3.16.4. WATER TIGHT JOINTS USING AGENCY-APPROVED SEALS AT MANHOLE SECTIONS AND GRADE RINGS PER DCSWCS 3.16.2, AND RAVEN LINING SYSTEM OR WARREN ENVIRONMENTAL LINING SYSTEMS.
8. CONSTRUCT CONCRETE CAP PER DCSWCS SD-21.

NOTE:
WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.

TO ENSURE LVWD ACCESS WITHIN EASEMENT
ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO LANDSCAPE BOLLARDS, FENCE/ WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.

NOTE:
ALL ON SITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.
ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

NOTE TO CONTRACTOR
EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

BASIS OF BEARING:
NORTH 05°14'46" WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN IN FILE 123, PAGE 36 OF PARCEL MAPS.

BENCHMARK:
CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.
ELEVATION: 3246.63 (FEET)
999.574 (METERS)
BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

SEWER CONNECTION NOTE
ONE OR MORE SEGMENTS OF THE DOWNSIDE SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSIDE SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSIDE SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

UTILITY APPROVAL
[Signature] 9-16-19
SOUTHWEST GAS CORPORATION DATE:

APPROVED FOR CONSTRUCTION
[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136744 FIRST APPROVED DATE: 10/21/19
LVWD APPROVED PIPE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

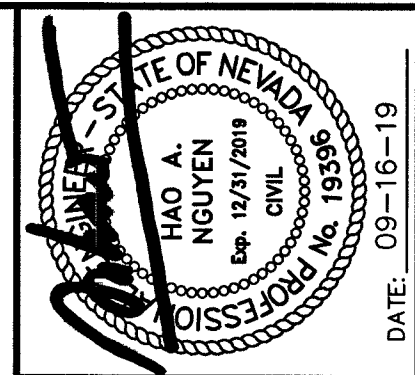
DROP INLET NOTE
WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE.
CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS, BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).

DEPTH OF COVER DURING CONSTRUCTION
MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

Call before you Dig
Call 811
1-800-227-2600

FAST
Call before you UnderGround
1-702-432-5300
SYSTEM OF TRANSPORTATION

CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

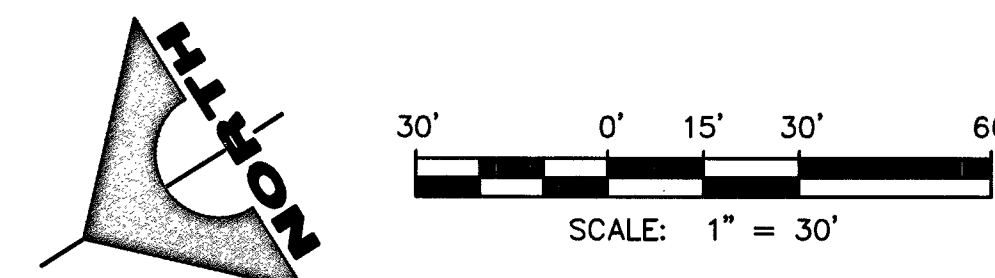
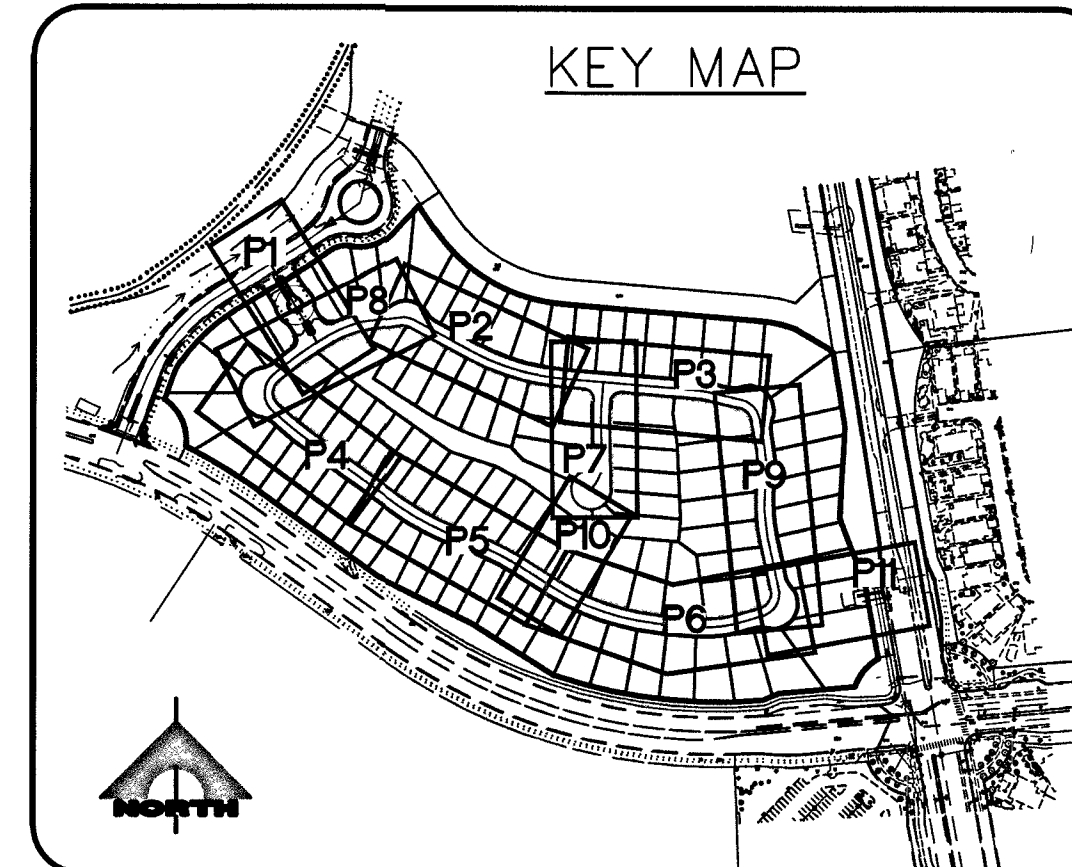


PROJECT NO.	DATE	DESCRIPTION
764-A149-001		
DESIGN:		
DRAWN:		
CHECK:		
PLOT DATE: 09-16-19		
PLOT TIME: 10:37:35		

GCV
ENGINEERS & SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
govenengineering.com
F:\Projects\100\764-a149-001\LVWD Production\764-A149-001.dwg
Nicholas Dufosse

PULTE HOMES
STARRING FoxTAL
SUMMERLIN VILLAGE 24A PARCEL N
PRAIRIE SUN ST
STA. 22+21.40 TO STA. 26+25.88
PLAN AND PROFILE

PROJ#136744A QS137-33-NE



1	CONNECT TO EXISTING STORM DRAIN.
2	CONSTRUCT MODIFIED TYPE "DM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
3	CONSTRUCT 48" TYPE I STORM DRAIN MANHOLE PER STD. DWG 403.
4	CONSTRUCT MODIFIED TYPE "DM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
5	CONSTRUCT 60" TYPE III STORM DRAIN MANHOLE PER STD. DWG 406.1.
6	CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS, BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VULXEX, GREENSTREAM PLASTIC PRODUCTS OR APPROVED EQUAL).
7	CONSTRUCT FULL STRENGTH GROUT PER DCSWGS 3.16.4, WATERTIGHT JOINTS USING AGENCY-APPROVED SEALANT MANHOLE SECTIONS AND GRADE RINGS PER DCSWGS 3.16.2, AND RAVEN LINING SYSTEM OR WARREN ENVIRONMENTAL LINING SYSTEMS.
2	CONSTRUCT CONCRETE CAP PER DCSWGS SD-21.

TO ENSURE LWWD ACCESS WITHIN EASEMENT
ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO LANDSCAPE BOULDERS, FENCE/ WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.

NOTE
ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.

ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

NOTE TO CONTRACTOR
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BASIS OF BEARING:

NORTH 05°14'46" WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN IN FILE 123, PAGE 36 OF PARCEL MAPS.

BENCHMARK:
CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE
150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

SEWER CONNECTION NOTE

ONE OR MORE SEGMENTS OF THE DOWNSIDE SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSIDE SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSIDE SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

UTILITY APPROVAL
[Signature]
SOUTHWEST GAS CORPORATION
DATE: 9-16-19

APPROVED FOR CONSTRUCTION

[Signature]

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 136744 - FIRST APPROVED DATE: 6/22/19

MINIMUM APPROVED FIRE FLOW: 1500 GPM AT 10 PSI RESIDUAL

MAXIMUM AVAILABLE FIRE SPRINKLER FLOW: 30 GPM

L# L19-01224	CLV DWG# 1074547
--------------	------------------

DROP INLET NOTE
WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:
CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP. (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL)

DEPTH OF COVER DURING CONSTRUCTION
 MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER
 UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED
 PRIOR TO WATERLINE INSTALLATION.

PROJECT NO.
764-A149-001

DESIGN: _____
DRAWN: _____
CHECK: _____
PLOT DATE: 09-16-19
PLOT TIME: 10:38:13

GCV
ENGINEERS \ SURVEYORS

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com

\\Projects\7007\764-a149-0001\DMC\production\764-A149-001P10-11.dwg
Photos DeRosa

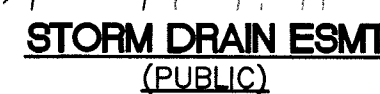
PULTE HOMES

STARTING: FOXTAIL
SUMMERLIN VILLAGE 24A PARCEL N

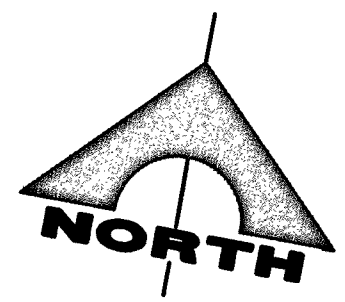
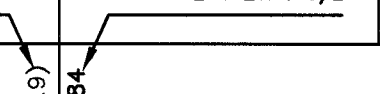
COMMON LOT C
STA. 10+00.00 TO STA. 14+71.39
PLAN AND PROFILE

DRAWING
P10
22 OF 37 SHTS

PROJ#:136744A QS:137-33-NE



VERT.: 1" = 3'
HOR. : 1" = 30'



30' 0' 15' 30' 60'

SCALE: 1" = 30'

1	CONNECT TO EXISTING STORM DRAIN.
2	CONSTRUCT MODIFIED TYPE "DM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
3	CONSTRUCT 48" TYPE I STORM DRAIN MANHOLE PER STD. DWG 403.
4	CONSTRUCT MODIFIED TYPE "DM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
5	CONSTRUCT 60" TYPE III STORM DRAIN MANHOLE PER STD. DWG 406.1.
6	CAST-IN-PLACE MONOLITHIC POOL WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOP, CENTER BULB, OR FLAT STRIP (WYNYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).
7	CONSTRUCT STORM DRAIN LINED WITH 12" PER DCSWKS 316.4, WATER TIGHT JOINTS USING AGENCY-APPROVED SEALS AT MANHOLE SECTIONS AND GRADE RINGS PER DCSWKS 316.2, AND RAVEN LINING SYSTEM OR WARREN ENVIRONMENTAL LINING SYSTEMS.
2	CONSTRUCT CONCRETE CAP PER DCSWKS SD-21.

TO ENSURE LWWD ACCESS WITHIN EASEMENT
ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO LANDSCAPE BOULDERS, FENCE/ WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.

NOTE
ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED
AND TO BE PRIVATELY MAINTAINED BY THE HOA.

ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER
EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

NOTE TO CONTRACTOR
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BASIS OF BEARING:

NORTH 05°14'46" WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN IN FILE 123, PAGE 36 OF PARCEL MAPS.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D36B, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

SEWER CONNECTION NOTE

ONE OR MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

UTILITY APPROVAL
[Signature]
SOUTHWEST GAS CORPORATION DATE: 9-16-19

APPROVED FOR CONSTRUCTION



LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 136744 FIRST APPROVED DATE: 10/21/19
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

DROP INLET NOTE
WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:
 CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP. (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL)

DEPTH OF COVER DURING CONSTRUCTION
 MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER
 UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED
 PRIOR TO WATERLINE INSTALLATION.

L# 119-01224	CLV DWG# 1074542
--------------	------------------

HAO A.
NGUYEN
Exp. 12/31/2019
CIVIL

STATE OF NEVADA
PROFESSIONAL ENGINEER
No. 19566

DATE: 09-16-19

PROJECT NO.	764-A149-001
DESIGN:	
DRAWN:	
CHECK:	
PLOT DATE:	09-16-19
PLOT TIME:	10:38:23

GCW
ENGINEERS/SURVEYORS

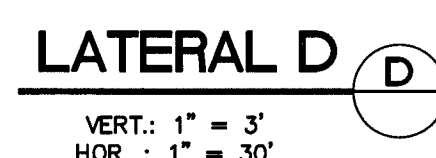
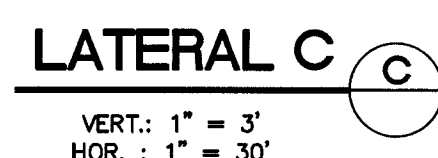
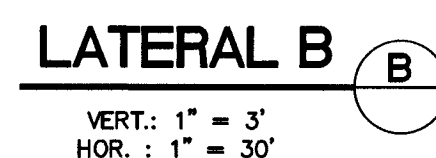
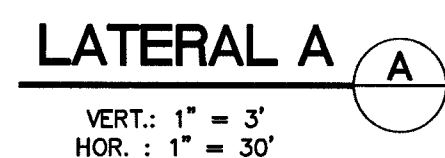
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

f: \Projects\700\764-a149-001\DWG\production\764-A149-001-P10-11.dwg
Nicholas DeRosa

PULTE HOMES
-STARLING FOREST-
SUMMERLIN VILLAGE 24A PHASE 2
STORM DRAIN ESM
STA. 10+00.00 TO STA. 10+00.00
PLAN AND PROFILE

DRAWING
P11
23 OF 37 SHTS

PROJ#:136744A QS:137-33-NE



- NOTE**
- ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.
- ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

DROP INLET NOTE

WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:

CAST IN PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS. CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).

DEPTH OF COVER DURING CONSTRUCTION
 MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS
 SECTION 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE
 INSTALLATION.

CONTROLLED LOW STRENGTH MATERIAL (CLSM)
PROTECT WATERLINES IN PLACE. WHEREVER A WATERLINE IS ABOVE A STORM DRAIN OR SEWER WHERE COMPACTION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CLASS II CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.22.

NOTES TO CONTRACTOR

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

BASIS OF BEARING:

NORTH 05°14'46" WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN IN FILE 123, PAGE 36 OF PARCEL MAPS.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK
RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

APPROVED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION

[Signature]

PROJECT NO. 136744 FIRST APPROVED DATE: 10/21/19

L# 219-01224	CLV DWG# 10745117
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[illegible]

STATE OF NEVADA
HAO A. NGUYEN
Exp. 12/31/2018
CIVIL
No. 19359
DATE: 09-16-19

[illegible]

PROJECT NO.	764-A149-001
DESIGN:	
DRAWN:	
CHECK:	
PLOT DATE:	09-16-19
PLOT TIME:	10:39:14

GCV
ENGINEERS \ SURVEYORS

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gownengineering.com

\Project\700\764-en149-001\DWG\production\764-A149-001.dwg
Nicholas DeRose

PULTE HOMES STARTING FOOTAIL SUMMERLIN VILLAGE 24A PARCEL N STORM DRAIN LATERALS	DRAWING LAT 24 OF 37 SHTS

PROJ#:136744A QS:137-33-NE

NORTH 05°14'46" WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN IN FILE 123, PAGE 36 OF PARCEL MAPS.

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC
SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST
OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KNOWN TO BE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

FOR ALL DRY UTILITY CROSSINGS

- MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING
- MAINTAIN MINIMUM 3' PARALLEL SEPARATION.
- ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KNOWN TO BE DAMAGED OR OTHERWISE SUSPECTED OF BEING DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

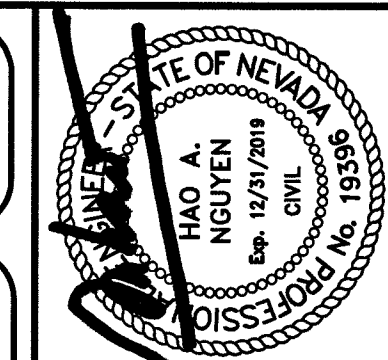
- MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING
- MAINTAIN MINIMUM 3' PARALLEL SEPARATION.
- ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

FIRE SPRINKLER SYSTEM SHALL BE PLUMBED TO THE MASTER TOILET. NO EXCEPTIONS ALLOWED.


LAS VEGAS FIRE AND RESCUE
FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL


SOUTHWEST GAS CORPORATION

Staffler
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136744 FIRST APPROVED DATE: 10/21/19
LVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

[illegible]

PROJECT NO.
764-A149-001

1555 S. RAINBOW BLVD.
LAS VEGAS NV 89146

GCLV
ENGINEERS \ SURVEYORS

PULTE HOMES

STARLING- FOXTAIL
SUMMERLIN VILLAGE 24A PARCEL N

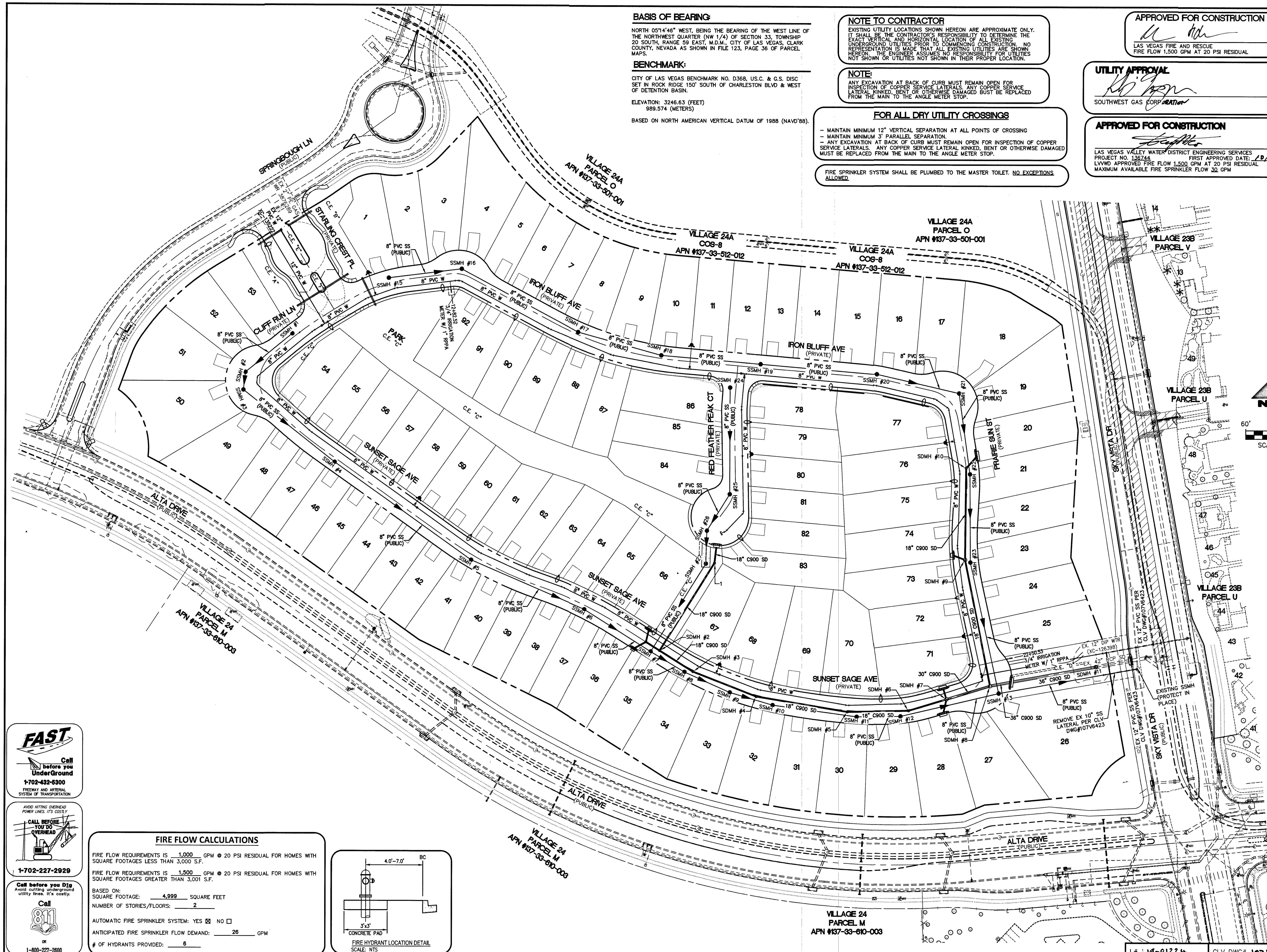
MASTER UTILITY PLAN

DRAWING

MU

25 OF 37 SHTS

PROJ#:136744A QS:137-33-NE



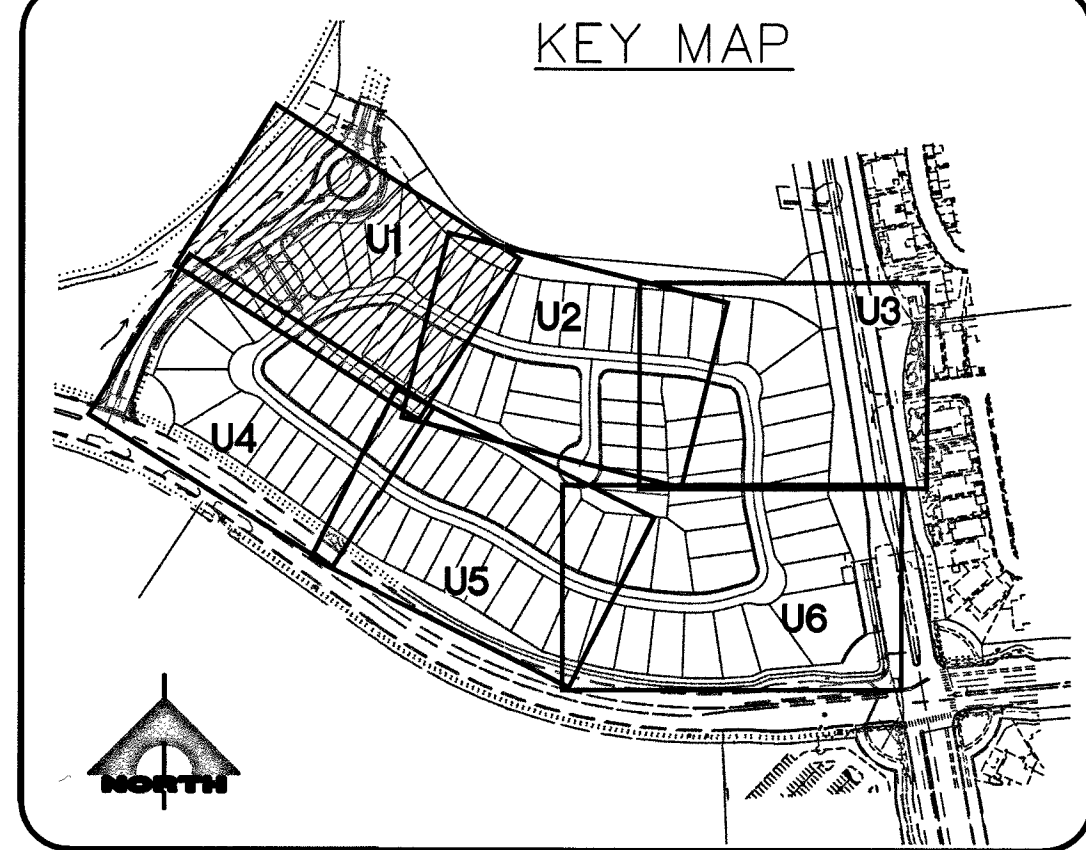
PAVERS NOTE

MAINTENANCE WORK ON LVVWD FACILITIES LOCATED WITHIN THE AREA OF THE PROPOSED PAVES MAY INCLUDE THE PLACEMENT OF AN ASPHALT OR CONCRETE PATCH AS APPLICABLE. NO EFFORT WILL BE MADE TO REPLACE OR MATCH ANY DECORATIVE SURFACE, LANDSCAPE FEATURE, OR ANY OTHER IMPROVEMENTS DISTURBED AS A RESULT OF THE MAINTENANCE ACTIVITIES OF THE LAS VEGAS VALLEY WATER DISTRICT OR THEIR AUTHORIZED REPRESENTATIVES.

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENTS IS 1,000 GPM @ 20 PSI RESIDUAL FOR HOMES WITH SQUARE FOOTAGES LESS THAN 3,000 S.F.
FIRE FLOW REQUIREMENTS IS 1,500 GPM @ 20 PSI RESIDUAL FOR HOMES WITH SQUARE FOOTAGES GREATER THAN 3,001 S.F.
BASED ON:
SQUARE FOOTAGE: 4,999 SQUARE FEET
NUMBER OF STORIES/FLOORS: 2
AUTOMATIC FIRE SPRINKLER SYSTEM: YES ☒ NO ☐
ANTICIPATED FIRE SPRINKLER FLOW DEMAND: 26 GPM
OF HYDRANTS PROVIDED: 6

KEY MAP



VILLAGE 24A
PARCEL O
APN #137-33-512-002

VILLAGE 24A
COB-8
APN #137-33-512-012

CONSTRUCTION NOTES

WATER

- 1) REMOVE CAP/BLOW-OFF PER UDACS PLATE NO. 36 AND CONNECT TO EXIST MAIN.
- 2) INSTALL 8" DIP WATER PIPE PER UDACS PLATE 17.
- 3) INSTALL 8" PVC WATER PIPE PER UDACS PLATE 17.
- 4) INSTALL 12" PVC WATER PIPE PER UDACS PLATE 17.
- 5) INSTALL 1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 1
- 6) INSTALL 5" BEND PER UDACS PLATE NO. 31, SIZE PER PLAN.
- 7) INSTALL 11.25" BEND PER UDACS PLATE NO. 31, SIZE PER PLAN.
- 8) INSTALL 22.5" BEND PER UDACS PLATE NO. 31, SIZE PER PLAN.
- 9) INSTALL 45" BEND PER UDACS PLATE NO. 31, SIZE PER PLAN.
- 10) INSTALL 90" BEND PER UDACS PLATE NO. 31, SIZE PER PLAN.
- 11) INSTALL 8" X 8" TEE PER UDACS PLATE NO. 31.
- 12) INSTALL 12" X 8" REDUCER PER UDACS PLATE NO. 30.
- 13) INSTALL IRRIGATION SLEEVES 1-6" AND 2-4" SCH. 40 PVC (VERIFY ALL IRRIGATION CROSSING WITH LANDSCAPE PLANS).
- 14) INSTALL GATE VALVE SAME SIZE AS LINE, BOX, AND COVER PER UDACS PLATE NO. 30 & 39.
- 15) INSTALL FIRE HYDRANT, VALVES, TEE, & 6" WATER LINE PER UDACS PLATE NO. 39 & 40.
- 16) INSTALL 3/4" IRRIGATION METER WITH 1" RPPA PER UDACS PLATE NO. 4 AND 8.
- 17) MAINTAIN A SLOPE OF NO GREATER THAN 2% FREE OF SHRUBBERY AND OBSTRUCTIONS, WITHIN AT LEAST THREE (3) FEET ADJACENT TO THE BACKFLOW ASSEMBLY PAD.
- 18) INSTALL 6" CAP & 2" BLOW-OFF PER UDACS PLATE NO. 31.
- 19) INSTALL 8" X 6" REDUCER PER UDACS PLATE NO. 30.
- 20) INSTALL 1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 3
- 21) INSTALL 6" PVC WATER PIPE PER UDACS PLATE 17.
- 22) INSTALL 6" CAP PER UDACS PLATE NO. 31.

SEWER

- 1) INSTALL 8" PVC SANITARY SEWER PIPE.
- 2) CONSTRUCT CONCRETE CAP PER DCSWS SD-19.
- 3) REMOVE CAP AND CONNECT TO EXISTING 8" SEWER STUB. CONTRACTOR TO VERIFY LOCATION AND ELEVATION.
- 4) INSTALL 48" DIAMETER SANITARY SEWER MANHOLE WITH SINGLE 24" LID PER DCSWS SD-3.
- 5) INSTALL 4" SEWER LATERAL PER DCSWS SD-20. (TYP).
- 6) REMOVE EX 10" PVC SS LATERAL AND CONNECT TO SSMH
- 7) CONSTRUCT CORROSION PROTECTION PER 3.16.8 OF DCSWS.

STORM DRAIN

- 1) CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUIV).
- 2) CONSTRUCT FULL STRENGTH GROUT PER DCSWS 3.16.4, WATERSTOP JOINTS USING AGENCY-APPROVED SEALANT & MAINTAIN 1/2" CLEARANCE BETWEEN RINGS PER DCSWS 3.16.2, AND RAVEN LINING SYSTEM OR WARREN ENVIRONMENTAL LINING SYSTEMS.

NOTE TO CONTRACTOR

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

NOTE

ALL ON-SITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.
ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

UTILITY APPROVAL

SOUTHWEST GAS CORPORATION
DATE: 9-16-19

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136744
FIRST APPROVED DATE: 10/21/19
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 32 GPM

APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE
DATE: 9-19-19
FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

L# 119-01224 CLV DWG# 1078547

FOR ALL DRY UTILITY CROSSINGS

- MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING
- MAINTAIN MINIMUM 3" PARALLEL SEPARATION
- ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

CONTRACTOR NOTE:

1. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS), UNDER CLARK COUNTY'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITIES TO CLARK COUNTY'S SATISFACTION. ALL MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.
2. IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN MSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.6.01.02.
3. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22.
4. THE CONTRACTOR IS TO VERIFY THE ACTUAL FIELD CONDITIONS OF ALL LOTS AND INSTALL SEWER CHECK VALVES WHERE REQUIRED PER THE LATEST EDITION OF THE UNIFORM PLUMBING CODE.
5. FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.
6. ALL NEW MANHOLES HAVE PRE-CAST BASES.
7. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.

FIRE SPRINKLER SYSTEM SHALL BE PLUMBED TO THE MASTER TOILET. NO EXCEPTIONS ALLOWED.

LOTS: 20-32, 69-77, & 3/4" IRRIGATION METER AT STA 22+50.53 PRAIRIE SUN ST. THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES (PRV) BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRVS ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

TO ENSURE LVVWD ACCESS WITHIN EASEMENT

ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO LANDSCAPE BOLLARDS, FENCE/ WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.

GCW, INC. ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND DEPTH OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

CONTRACTOR NOTE:

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.

LVVWD CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE REMAINING WATER. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.
CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

ESTIMATE WASTEWATER DEMAND

92 UNITS X 250 GPD/UNIT = 23,000 GPD
TOTAL AVERAGE CONTRIBUTION = 23,000 GPD = 0.023000 MGD
TOTAL PEAK FLOW = 0.023000 MGD X 3.76 (PEAK FACTOR) = 0.0864 MGD

SEWER CONNECTION NOTE

ONE OR MORE SEGMENTS OF THE DOWNSIDE SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSIDE SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSIDE SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

(BWV) SEWER BACKWATER VALVE (PRIVATE)
(PRV) WATER PRESSURE-REDUCING VALVE (PRIVATE)

DROP INLET NOTE

WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:

CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP. (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUIV.)

Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811
OR
1-800-227-2600

Call before you Dig
Underground
1-702-432-5300
PREPARED BY
SYSTEM OF TRANSPORTATION

CALL BEFORE YOU DIG
OVERHEAD
1-702-227-2929

PROJECT NO.
764-149-001

DESIGN:
DRAWN:
CHECK:
PLOT DATE: 09-16-19
PLOT TIME: 10:41:04

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
goverengineering.com

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Nicholas DeRosa

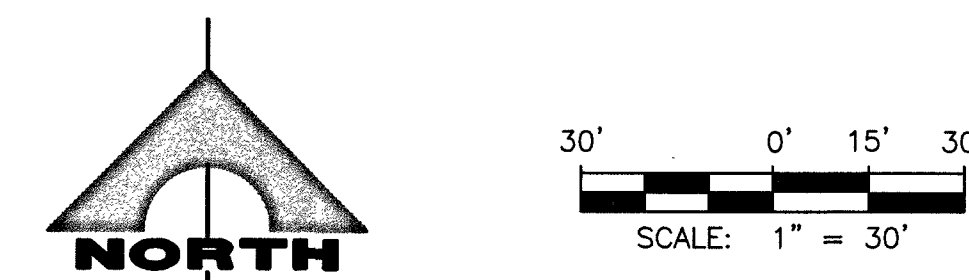
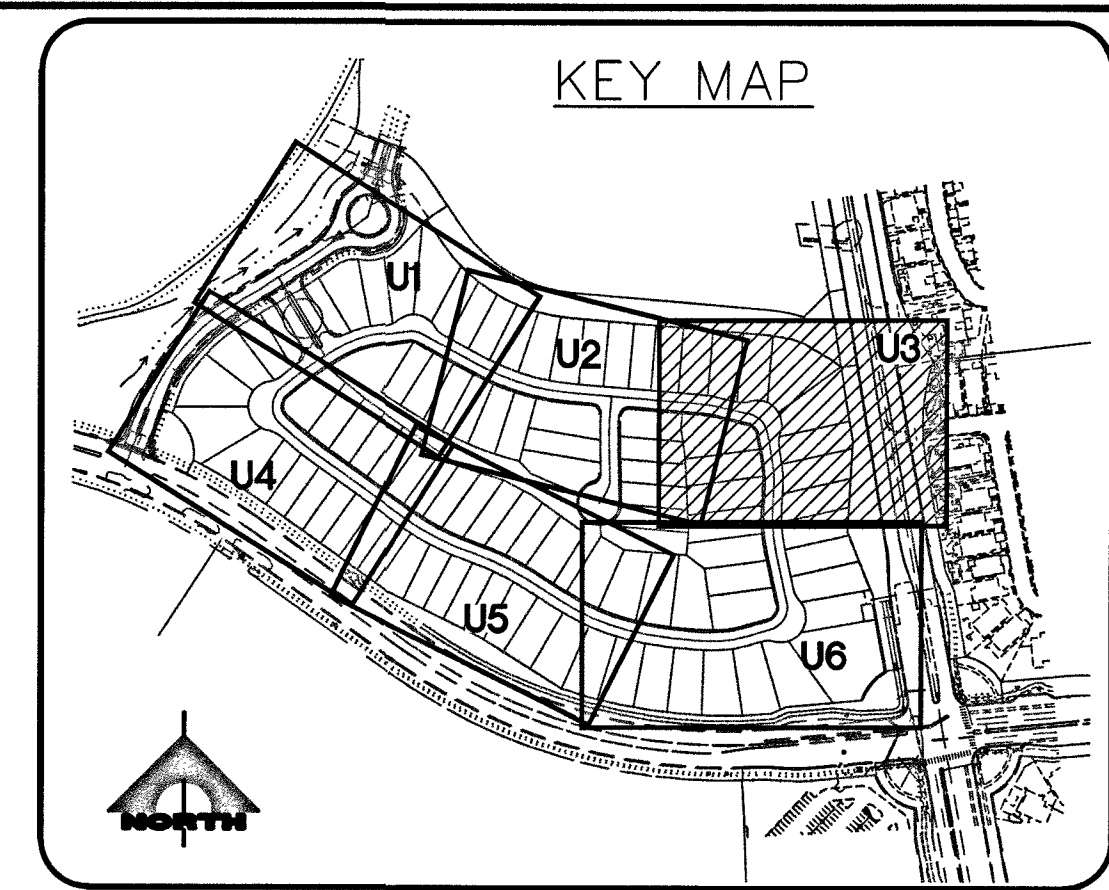
PULTE HOMES
STARLING-FOXTAIL
SUMMERLIN VILLAGE 24A PARCEL N

DRAWING

U1

26 OF 37 SHTS

PROJ# 136744 QAS 137-33-519



CONSTRUCTION NOTES

- (1) REMOVE CAP/BLOW-OFF PER UDACS PLATE NO. 36 AND CONNECT TO EXIST MAIN.
- (2) INSTALL 8" DIP WATER PIPE PER UDACS PLATE 17.
- (3) INSTALL 8" PVC WATER PIPE PER UDACS PLATE 17.
- (4) INSTALL 12" PVC WATER PIPE PER UDACS PLATE 17.
- (5) INSTALL 1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 1
- (6) INSTALL 5" BEND PER UDACS PLATE NO. 31, SIZE PER PLAN.
- (7) INSTALL 11.25" BEND PER UDACS PLATE NO. 31, SIZE PER PLAN.
- (8) INSTALL 22.5" BEND PER UDACS PLATE NO. 31, SIZE PER PLAN.
- (9) INSTALL 45" BEND PER UDACS PLATE NO. 31, SIZE PER PLAN.
- (10) INSTALL 90" BEND PER UDACS PLATE NO. 31, SIZE PER PLAN.
- (11) INSTALL 8" x 8" TEE PER UDACS PLATE NO. 31.
- (12) INSTALL 12" x 8" REDUCER PER UDACS PLATE NO. 30.
- (13) INSTALL IRRIGATION SLEEVES 1-6" AND 2-4" SCH. 40 PVC (VERIFY ALL IRRIGATION CROSSING WITH LANDSCAPE PLANS.
- (14) INSTALL GATE VALVE SAME SIZE AS LINE, BOX, AND COVER PER UDACS PLATE NO. 30 & 39.
- (15) INSTALL FIRE HYDRANT, VALVES, TEE, & 6" WATER LINE PER UDACS PLATE NO. 39 & 40.
- (16) INSTALL 3/4" IRRIGATION METER WITH 1" RPPA PER UDACS PLATE NO. 4 AND 8.
- (17) MAINTAIN A SLOPE OF 1% OR GREATER TO FREE OF SHRUBBERY AND OBSTRUCTIONS, WITHIN AT LEAST THREE (3) FEET ADJACENT TO THE BACKFLOW ASSEMBLY PAD.
- (18) INSTALL 6" CAP & 2" BLOW-OFF PER UDACS PLATE NO. 31.
- (19) INSTALL 8" x 6" REDUCER PER UDACS PLATE NO. 30.
- (20) INSTALL 1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 3
- (21) INSTALL 8" PVC WATER PIPE PER UDACS PLATE 17.
- (22) INSTALL 6" CAP PER UDACS PLATE NO. 31.

SEWER	
1	INSTALL 8" PVC SANITARY SEWER PIPE.
2	CONSTRUCT CONCRETE CAP PER DCSWCS SD-19.
3	REMOVE CAP AND CONNECT TO EXISTING 8" SEWER STUB. CONTRACTOR TO VERIFY LOCATION AND ELEVATION.
4	INSTALL 48" DIAMETER SANITARY SEWER MANHOLE WITH SINGLE 24" LID PER DCSWCS SD-3.
5	INSTALL 4" SEWER LATERAL PER DCSWCS SD-20. (TYP).
6	REMOVE EX 10" PVC SS LATERAL AND CONNECT TO SSMH
7	CONSTRUCT CORROSION PROTECTION PER 3.16.8 OF DCSWCS.

STORM DRAIN	
6	CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL)
7	CONSTRUCT FULL STRENGTH GROUT PER DCSWCS 3.16.4, WATERTIGHT JOINTS USING AGENCY-APPROVED SEALS AT MANHOLE SECTIONS AND GRADE RINGS PER DCSWCS 3.16.2, AND RAVEN LINING SYSTEM OR WARREN ENVIRONMENTAL LINING SYSTEMS.

NOTE TO CONTRACTOR

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ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

UTILITY APPROVAL

[Signature] 9-16-19

SOUTHWEST GAS CORPORATION DATE:

APPROVED FOR CONSTRUCTION

[Signature]

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 1367444 FIRST APPROVED DATE: 10/24/19
LUVMO APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

APPROVED FOR CONSTRUCTION

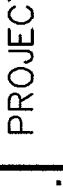
[Signature] *[Signature]*

LAS VEGAS FIRE AND RESCUE
FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

9-19-19

DATE

L# L19-01224	CLV DWG# 10745117
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		1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gowengineering.com	
PROJECT NO.	764-A149-001	DESIGN:	
		DRAWN:	
		CHECK:	
		PLOT DATE:	09-16-19
		PLOT TIME:	10:41:15

PULTE HOMES

~~STARTING~~ **FOXTAIL**
SUMMERLIN VILLAGE 24A PARCEL N

UTILITY PLAN 3

DRAWING
U3
28 OF 37 SHTS

PROJ#:136744A QS:137-33-NE

Call before you Dig Avoid cutting underground utility lines. It's costly. Call 811 OR 1-800-227-2600	FAST Call before you UnderGround 1-702-432-5300 PREWY AND ARTERIAL SYSTEMS OF TRANSPORTATION	AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY CALL BEFORE YOU GO OVERHEAD 1-702-227-2929
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SEWER CONNECTION NOTE

ONE OR MORE SECTIONS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN CONSIDERED FOR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. NO WORK DONE ON THIS PROJECT PRIOR TO THE COLLECTION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM. ALL SEWER(S) HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

CONTRACTOR NOTE:

1. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS), UNDER CLARK COUNTY JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITIES TO CLARK COUNTY'S SATISFACTION. ALL MATERIALS USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.
2. IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN MSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM INSPECTION NO. 23.6.01.
3. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.2.2.
4. THE CONTRACTOR IS TO VERIFY THE ACTUAL FIELD CONDITIONS OF ALL LOTS AND INSTALL SEWER CHECK VALVES WHERE REQUIRED PER THE LATEST EDITION OF THE UNIFORM PLUMBING CODE.
5. FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.
6. INSTALL NEW MANHOLES TO MATCH PRE-CAST BASES.
7. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENTS IS 1,000 GPM @ 20 PSI RESIDUAL FOR HOMES WITH SQUARE FOOTAGES LESS THAN 3,000 S.F.

FIRE FLOW REQUIREMENTS IS 1,500 GPM @ 20 PSI RESIDUAL FOR HOMES WITH SQUARE FOOTAGES GREATER THAN 3,001 S.F.

BASED ON:
SQUARE FOOTAGE: 4,999 SQUARE FEET
NUMBER OF STORIES/FLOORS: 2

AUTOMATIC FIRE SPRINKLER SYSTEM: YES ☒ NO ☐

ANTICIPATED FIRE SPRINKLER FLOW DEMAND: 26 GPM

OF HYDRANTS PROVIDED: 6

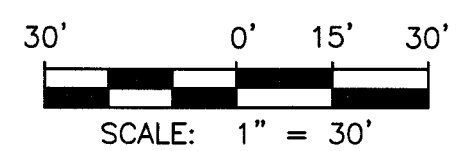
FIRE SPRINKLER SYSTEM SHALL BE PLUMBED TO THE MASTER TOILET. NO EXCEPTIONS ALLOWED

LOTS: 20-32, 69-77, & 3/4" IRRIGATION METER AT STA 22+50.53 PRAIRIE SUN ST. THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES (PRV) BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.

TO ENSURE LWWD ACCESS WITHIN EASEMENT
ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO LANDSCAPE BOULDERS, FENCE/ WALLS,
AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.

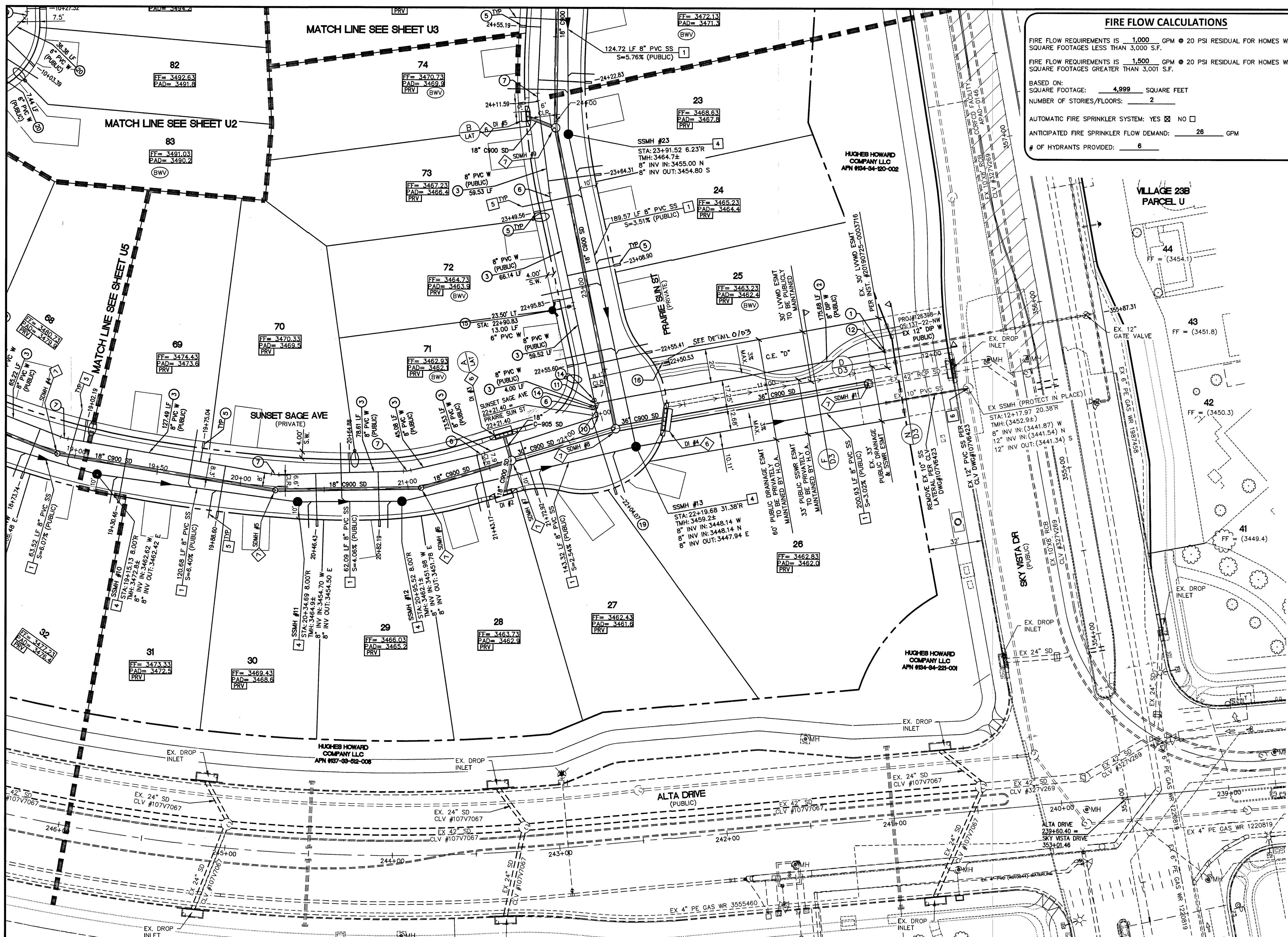
GCW, INC. ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND DEPTH OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

CONTRACTOR NOTE:
WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.



	SUMMER	
DRAWING		
U5		
30 OF 37 SHTS		

702-227-2929



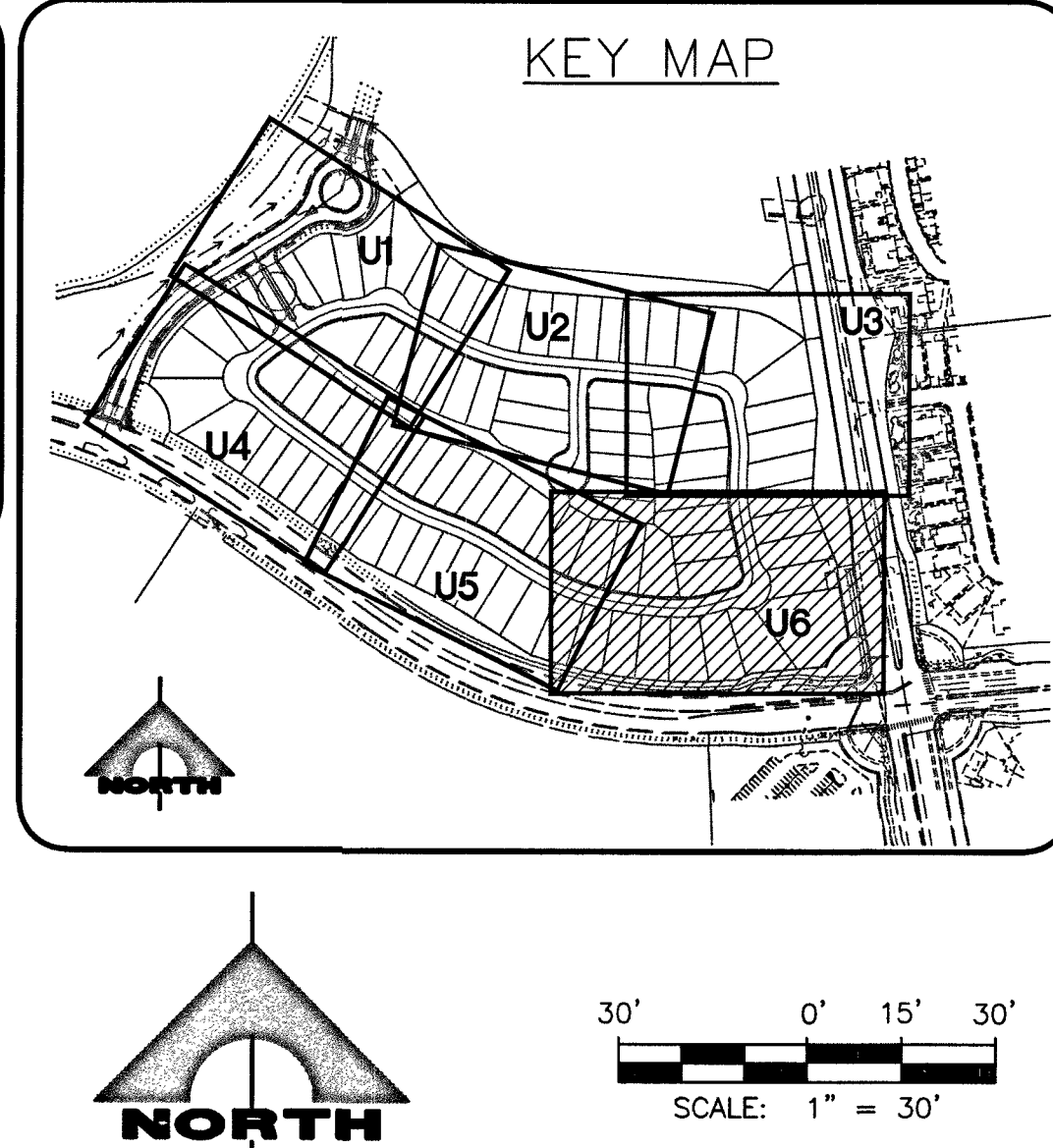
FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENTS IS 1,000 GPM @ 20 PSI RESIDUAL FOR HOMES WITH SQUARE FOOTAGES LESS THAN 3,000 S.F.

FIRE FLOW REQUIREMENTS IS 1,500 GPM @ 20 PSI RESIDUAL FOR HOMES WITH SQUARE FOOTAGES GREATER THAN 3,000 S.F.

BASED ON:
 SQUARE FOOTAGE: 4,999 SQUARE FEET
 NUMBER OF STORIES/FLOORS: 2

AUTOMATIC FIRE SPRINKLER SYSTEM: YES ☒ NO ☐
 ANTICIPATED FIRE SPRINKLER FLOW DEMAND: 28 GPM
 # OF HYDRANTS PROVIDED: 6



- ### CONSTRUCTION NOTES
- WATER**
- REMOVE CAP/BLOW-OFF PER UDACS PLATE NO. 36 AND CONNECT TO EXIST MAIN.
 - INSTALL 8" DIP WATER PIPE PER UDACS PLATE 17.
 - INSTALL 8" PVC WATER PIPE PER UDACS PLATE 17.
 - INSTALL 12" PVC WATER PIPE PER UDACS PLATE 17.
 - INSTALL 1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 1.
 - INSTALL 5' BEND PER UDACS PLATE NO. 31, SIZE PER PLAN.
 - INSTALL 11.25' BEND PER UDACS PLATE NO. 31, SIZE PER PLAN.
 - INSTALL 22.5' BEND PER UDACS PLATE NO. 31, SIZE PER PLAN.
 - INSTALL 45' BEND PER UDACS PLATE NO. 31, SIZE PER PLAN.
 - INSTALL 90' BEND PER UDACS PLATE NO. 31, SIZE PER PLAN.
 - INSTALL 8" x 8" TEE PER UDACS PLATE NO. 31.
 - INSTALL 12" x 8" REDUCER PER UDACS PLATE NO. 30.
 - INSTALL IRRIGATION SLEEVES 1-6" AND 2-4" SCH. 40 PVC (VERIFY ALL IRRIGATION CROSSING WITH LANDSCAPE PLANS).
 - INSTALL GATE VALVE SAME SIZE AS LINE, BOX, AND COVER PER UDACS PLATE NO. 30 & 39.
 - INSTALL 3/4" IRRIGATION METER WITH 1" RPPA PER UDACS PLATE NO. 4 AND 8.
 - MAINTAIN A SLOPE OF NO GREATER THAN 2%, FREE OF SHRUBBERY AND OBSTRUCTIONS, WITHIN AT LEAST THREE (3) FEET ADJACENT TO THE BACKFLOW ASSEMBLY PAD.
 - INSTALL 6" CAP & 2" BLOW-OFF PER UDACS PLATE NO. 31.
 - INSTALL 8" x 6" REDUCER PER UDACS PLATE NO. 30.
 - INSTALL 1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 3.
 - INSTALL 6" PVC WATER PIPE PER UDACS PLATE 17.
 - INSTALL 6" CAP PER UDACS PLATE NO. 31.
- SEWER**
- INSTALL 8" PVC SANITARY SEWER PIPE.
 - CONSTRUCT CONCRETE CAP PER DCSWCS SD-19.
 - REMOVE CAP AND CONNECT TO EXISTING 8" SEWER STUB. CONTRACTOR TO VERIFY LOCATION AND ELEVATION.
 - INSTALL 48" DIAMETER SANITARY SEWER MANHOLE WITH SINGLE 24" LID PER DCSWCS SD-3.
 - INSTALL 4" SEWER LATERAL PER DCSWCS SD-20 (TYP).
 - REMOVE EX 10" PVC SS LATERAL AND CONNECT TO SSMH.
 - CONSTRUCT CORROSION PROTECTION PER 3.16.8 OF DCSWCS.
- STORM DRAIN**
- CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS, BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).
 - CONSTRUCT FULL STRENGTH GROUT PER DCSWCS 3.16.4, WATERSTOP JOINTS USING AGENCY-APPROVED SEALS AS SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

NOTE TO CONTRACTOR

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

NOTE

ALL ON-SITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.

ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

UTILITY APPROVAL

[Signature] 9-16-19
 DATE: _____

SOUTHWEST GAS CORPORATION

APPROVED FOR CONSTRUCTION

[Signature]
 DATE: _____

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136744
 FIRST APPROVED DATE: 10/31/19
 LVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
 MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

APPROVED FOR CONSTRUCTION

[Signature] 9-19-19
 DATE: _____

LAS VEGAS FIRE AND RESCUE
 FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

DROP INLET NOTE
 WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE.

CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS, BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP. (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL)

Call before you Dig
 Avoid cutting underground utility lines. It's costly.

811
 1-800-227-2600

FAST
 Call before you UnderGround
 1-702-432-5300
 SYSTEM OF TRANSPORTATION

CALL BEFORE OVERHEAD
 AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

1-702-227-2929

LVWD CANNOT GUARANTEE A WATER TIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE REMAINING WATER. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.

CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

ESTIMATE WASTEWATER DEMAND

92 UNITS X 250 GPD/UNIT = 23,000 GPD

TOTAL AVERAGE CONTRIBUTION = 23,000 GPD = 0.023000 MGD

TOTAL PEAK FLOW = 0.023000 MGD X 3.76 (PEAK FACTOR) = 0.0864 MGD

SEWER CONNECTION NOTE

ONE OR MORE SEGMENTS OF THE DOWNSIDE SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE. THE CITY OF LAS VEGAS, ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSIDE SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THE DOWNSIDE SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

FOR ALL DRY UTILITY CROSSINGS

- MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING
- MAINTAIN MINIMUM 3" PARALLEL SEPARATION
- ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL, KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

CONTRACTOR NOTE:

- REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS), UNDER CLARK COUNTY'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITIES TO CLARK COUNTY'S SATISFACTION. ALL MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.
- IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN IN-STATE LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.6.01.02.
- ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22.
- THE CONTRACTOR IS TO VERIFY THE ACTUAL FIELD CONDITIONS OF ALL LOTS AND INSTALL SEWER CHECK VALVES WHERE REQUIRED PER THE LATEST EDITION OF THE UNIFORM PLUMBING CODE.
- FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.
- ALL NEW MANHOLES TO HAVE PRE-CAST BASES.
- INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.

FIRE SPRINKLER SYSTEM SHALL BE PLUMBED TO THE MASTER TOILET. NO EXCEPTIONS ALLOWED.

LOTS 20-32, 69-77, & 3/4" IRRIGATION METER AT STA 22+50.53 PRAIRIE SUN ST. THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES (PRV) BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRVS ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.

TO ENSURE LVWD ACCESS WITHIN EASEMENT

ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO LANDSCAPE BOLLARDS, FENCE/ WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.

GOW, INC. ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND DEPTH OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

CONTRACTOR NOTE:

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.

STATE OF NEVADA
HAO A. NGUYEN
 CIVIL ENGINEER
 No. 19396

DATE	AGN APP	DATE	AGN APP	DATE	AGN APP	DESCRIPTION
09-16-19						

PROJECT NO.
764-A149-001

DESIGN:
1555 S. RAINBOW BLVD
LAS VEGAS, NV 89146

DRAWN:
T: 702.804.2000
F: 702.804.2299

CHECK:
gocwengineering.com

PLOT DATE: 09-16-19
PLOT TIME: 10:41:36

ENGINEERS \ SURVEYORS

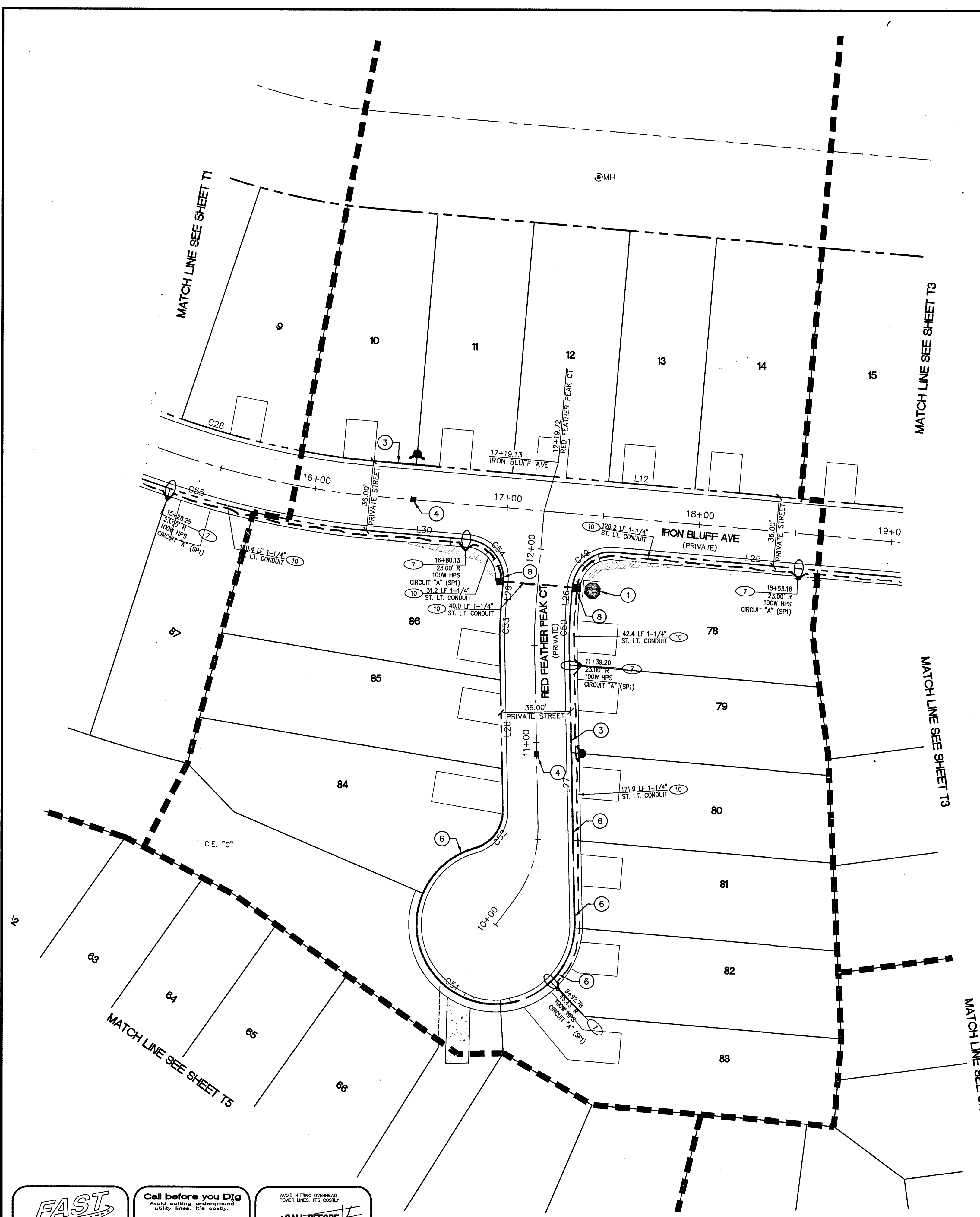
GCV

ENGINEERS \ SURVEYORS

UTILITY PLAN 6

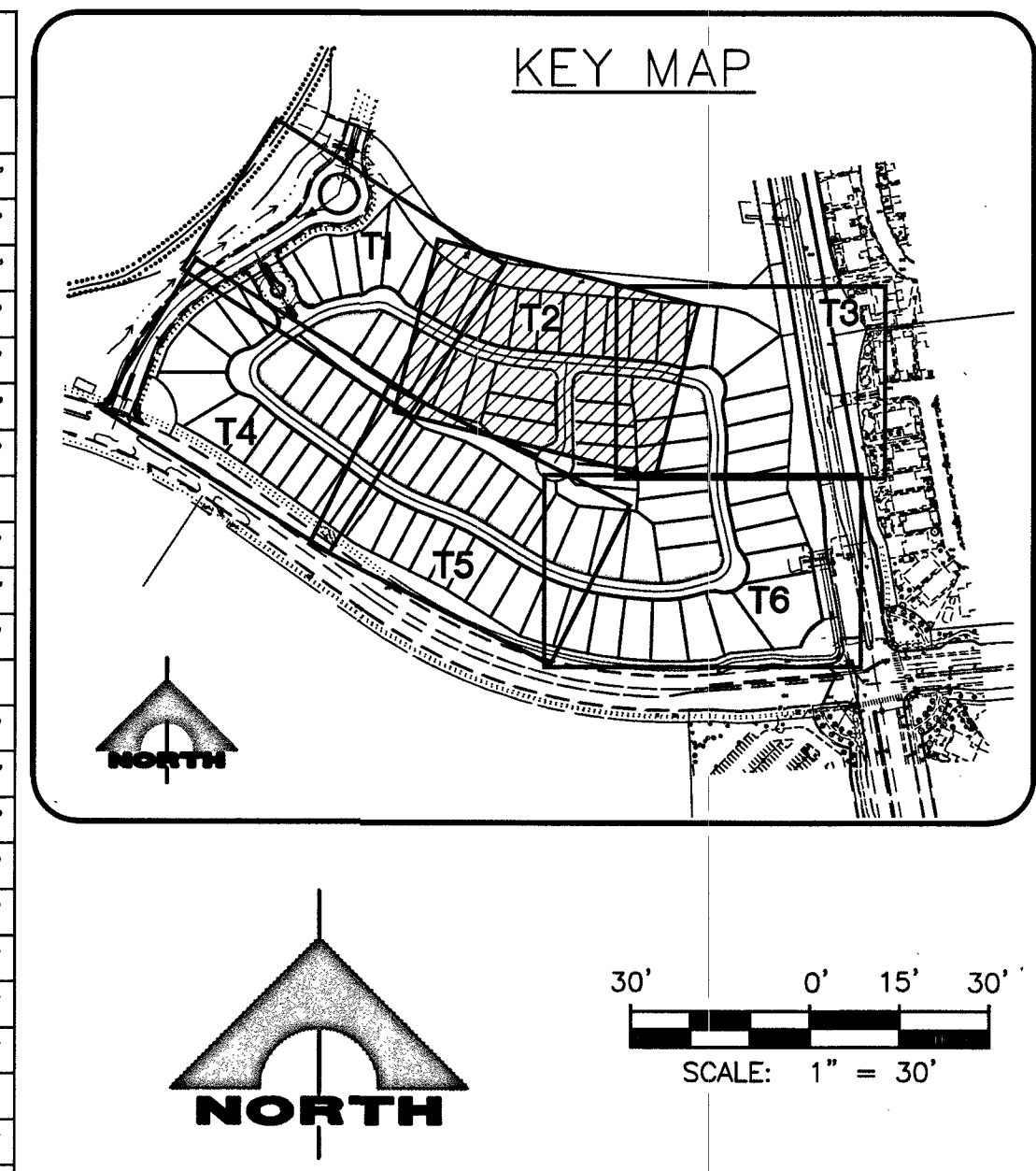
U6

31 OF 37 SHTS



LINE TABLE		
#	LENGTH	BEARING
L1	16.34'	N31° 17' 44.36"W
L2	26.82'	N31° 17' 44.36"W
L3	14.45'	N50° 41' 42.37"E
L4	24.33'	N48° 57' 58.85"W
L5	222.15'	N54° 40' 55.88"W
L6	82.48'	N57° 52' 47.98"W
L7	27.39'	S73° 44' 30.57"W
L8	76.50'	S12° 24' 19.29"E
L9	43.33'	S3° 10' 34.01"W
L10	25.59'	S10° 09' 41.49"E
L11	34.90'	S77° 06' 25.31"E
L12	266.38'	S85° 09' 17.56"E
L13	91.83'	S61° 52' 36.70"E
L14	15.92'	N82° 48' 28.13"E
L15	26.25'	S31° 17' 44.36"E
L16	16.34'	S31° 17' 44.36"E
L17	39.82'	N48° 57' 58.85"W
L18	222.15'	N54° 40' 55.88"W
L19	82.48'	N57° 52' 47.98"W
L20	50.37'	S73° 44' 30.57"W
L21	99.48'	S12° 24' 19.29"E
L22	43.33'	S3° 10' 34.01"W
L23	56.78'	S10° 09' 41.49"E
L24	66.09'	S77° 06' 25.31"E
L25	144.18'	S85° 09' 17.56"E
L26	11.45'	N4° 50' 42.44"E
L27	142.81'	N1° 11' 32.03"W
L28	83.68'	S1° 11' 32.03"E
L29	11.45'	S4° 50' 42.44"W
L30	46.20'	S85° 09' 17.56"E
L31	133.31'	S61° 52' 36.70"E
L32	57.40'	N82° 48' 28.13"E
L33	32.88'	N58° 42' 15.64"E
L34	29.94'	N50° 41' 42.37"E

CURVE TABLE			
#	RADIUS	LENGTH	DELTA
C1	25.00'	39.27'	090°00'00"
C2	39.00'	12.28'	018°02'29"
C3	39.00'	30.66'	045°02'20"
C4	39.00'	18.38'	026°59'51"
C5	20.00'	29.84'	085°29'10"
C6	536.00'	32.70'	003°29'43"
C7	50.00'	26.78'	030°41'00"
C8	50.00'	140.52'	161°01'42"
C9	50.00'	26.78'	030°41'00"
C10	536.00'	53.47'	005°42'57"
C11	528.00'	153.46'	016°39'09"
C12	508.00'	119.29'	013°27'17"
C13	492.00'	187.44'	021°49'43"
C14	902.00'	104.83'	006°39'33"
C15	492.00'	47.24'	005°30'04"
C16	236.00'	59.27'	014°23'22"
C17	50.00'	26.78'	030°41'00"
C18	50.00'	128.73'	147°30'50"
C19	50.00'	26.78'	030°41'00"
C20	313.00'	85.12'	015°34'53"
C21	236.00'	54.94'	013°20'15"
C22	50.00'	26.78'	030°41'00"
C23	50.00'	111.97'	128°18'44"
C24	50.00'	26.78'	030°41'00"
C25	236.00'	33.15'	008°02'52"
C26	444.00'	180.39'	023°16'41"
C27	50.00'	26.78'	030°41'00"
C28	50.00'	84.37'	096°40'56"
C29	50.00'	26.78'	030°41'00"
C30	236.00'	76.79'	018°38'37"
C31	20.00'	29.51'	084°32'25"
C32	39.00'	18.38'	026°59'51"
C33	39.00'	30.66'	045°02'20"
C34	39.00'	12.28'	018°02'29"
C35	25.00'	39.27'	090°00'00"
C36	30.00'	52.18'	099°39'41"
C37	500.00'	49.88'	005°42'57"
C38	492.00'	143.00'	016°39'09"
C39	544.00'	127.75'	013°27'17"
C40	456.00'	173.73'	021°49'43"
C41	866.00'	100.65'	006°39'33"
C42	456.00'	43.78'	005°30'04"
C43	200.00'	50.23'	014°23'22"
C44	30.00'	45.11'	086°08'50"
C45	349.00'	94.91'	015°34'53"
C46	200.00'	46.56'	013°20'15"
C47	30.00'	35.05'	066°56'44"
C48	200.00'	28.09'	008°02'52"
C49	20.00'	31.42'	090°00'00"
C50	182.00'	19.18'	006°02'15"
C51	41.00'	183.02'	255°45'54"
C52	20.00'	26.45'	075°45'54"
C53	218.00'	22.97'	006°02'15"
C54	20.00'	31.42'	090°00'00"
C55	480.00'	195.01'	023°16'41"
C56	30.00'	18.49'	035°18'55"
C57	200.00'	84.14'	024°06'12"
C58	500.00'	69.89'	008°00'33"



- ### CONSTRUCTION NOTES
- INSTALL (2) STREET NAME SIGN (03)-BROWN BACK WITH WHITE LETTERS, WITH 30" STOP SIGN (R1-1) WITH THE WORDS "PRIVATELY MAINTAINED".
 - INSTALL (2) STREET NAME SIGN (03)-BROWN BACK WITH WHITE LETTERS TO BE PRIVATELY MAINTAINED.
 - PAIN CURB RED (NO PARKING) 30" WIDE CENTERED ON HYDRANT EXCEPT DRIVEWAY.
 - INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS.
 - INSTALL "ON-STREET PARKING IN MARKED FIRE LANES PROHIBITED" SIGN (TYPE B SIGNAGE).
 - PAIN CURB RED (NO PARKING FIRE LANE) FOR EMERGENCY ACCESS. (TYPE C SIGNAGE).
 - INSTALL 100W HPS TYPE 3, STREETLIGHT AND FOUNDATION PER SUMMERLIN STD DWG NO. E-1, AND E-27.
 - INSTALL 3 1/2" PULL BOX.
 - INSTALL 100 AMP SERVICE PEDESTAL PER USDOCA STD DWG NO. 330, 331, 332.1.
 - INSTALL 1-1/4" STREETLIGHT CONDUIT WITH 2-#4 AND 1-#3 THW COPPER CONDUCTORS.

LINE AND CURVE TABLE

SEE SHEET T2 FOR LINE AND CURVE TABLE

GENERAL NOTES

- REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS), UNDER CITY OF LAS VEGAS'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITIES TO CITY OF LAS VEGAS'S SATISFACTION. ALL MATERIAL USED SHALL MEET CITY OF LAS VEGAS'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.
- IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN IMSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.G.01.02.
- ALL SEWER / STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
- THE CONTRACTOR IS TO VERIFY THE ACTUAL FIELD CONDITIONS OF ALL LOTS AND INSTALL SEWER CHECK VALVES WHERE REQUIRED PER THE LATEST EDITION OF THE UNIFORM PLUMBING CODE.
- FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.

BASIS OF BEARING:

NORTH 051°44'46" WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, W.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN IN FILE 123, PAGE 36 OF PARCEL MAPS.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

APPROVED FOR CONSTRUCTION

7-19-19

DATE

L# L14-01224

CLV DWG# 1074507

Call before you UnderGround
1-702-432-5300

Call before you Dig
Avoid cutting underground utility lines. It's costly.

Call 811
OR
1-800-227-2600

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

CALL BEFORE YOU DIG
OVERHEAD
1-702-227-2929

PROJECT NO. 764-A149-001
DESIGN: 764-A149-001
DRAWN: 764-A149-001
CHECK: 764-A149-001
PLOT DATE: 09-16-19
PLOT TIME: 10:41:55

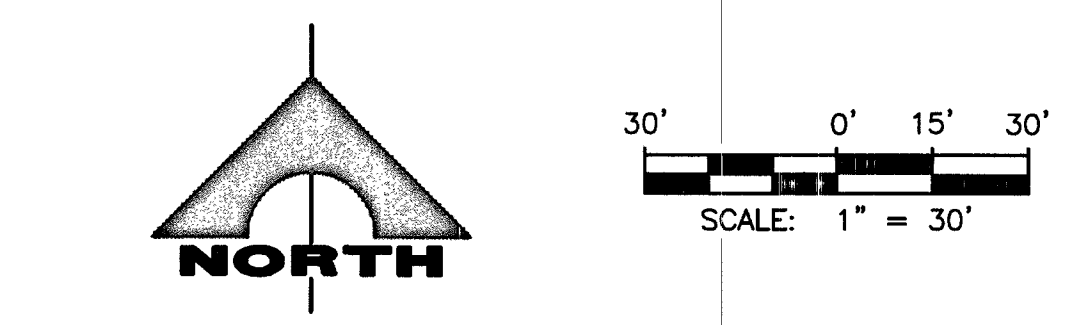
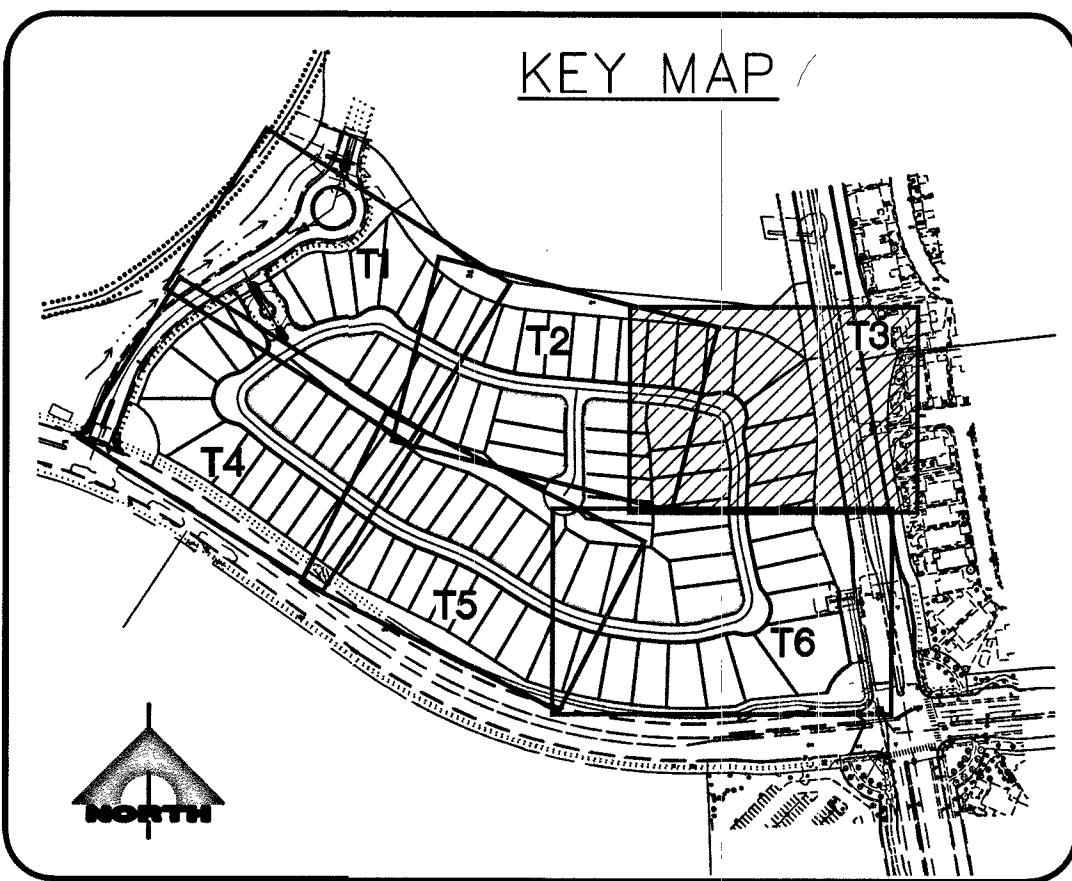
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gowingengineering.com

GCVI
ENGINEERS & SURVEYORS

PULTE HOMES
STARRING: FoxTail
SUMMERLIN VILLAGE 24A PARCEL N

TRAFFIC PLAN 2

DRAWING
T2
33 OF 37 SHTS



- CONSTRUCTION NOTES**
1. INSTALL (2) STREET NAME SIGN (D3)—BROWN BACK WITH WHITE LETTERS, WITH 30" STOP SIGN (R1-1) WITH THE WORDS "PRIVATELY MAINTAINED".
 2. INSTALL (2) STREET NAME SIGN (D3)—BROWN BACK WITH WHITE LETTERS TO BE PRIVATELY MAINTAINED.
 3. PAINT CURB RED (NO PARKING) 30" WIDE CENTERED ON HYDRANT EXCEPT DRIVEWAY.
 4. INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS.
 5. INSTALL "ON-STREET PARKING IN MARKED FIRE LANES PROHIBITED" SIGN (TYPE B SIGNAGE).
 6. PAINT CURB RED (NO PARKING FIRE LANE) FOR EMERGENCY ACCESS. (TYPE C SIGNAGE).
 7. INSTALL 100W HPS TYPE 3, STREETLIGHT AND FOUNDATION PER SUMMERLIN STD DWG NO. E-1, AND E-27.
 8. INSTALL 3 1/2 PULL BOX.
 9. INSTALL 100 AMP SERVICE PEDESTAL PER USDOCA STD DWG NO. 330, 331, 332.1.
 10. INSTALL 1-1/4" STREETLIGHT CONDUIT WITH 2-#4 AND 1-#8 THW COPPER CONDUCTORS.

LINE AND CURVE TABLE
SEE SHEET T2 FOR LINE AND CURVE TABLE

GENERAL NOTES

1. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS), UNDER CITY OF LAS VEGAS'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITIES TO CITY OF LAS VEGAS'S SATISFACTION. ALL MATERIAL USED SHALL MEET CITY OF LAS VEGAS'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.
2. IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN IMSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.G.01.02.
3. ALL SEWER/ STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
4. THE CONTRACTOR IS TO VERIFY THE ACTUAL FIELD CONDITIONS OF ALL LOTS AND INSTALL SEWER CHECK VALVES WHERE REQUIRED PER THE LATEST EDITION OF THE UNIFORM PLUMBING CODE.
5. FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALKS.

BASIS OF BEARING:
NORTH 05°14'48" WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN IN FILE 123, PAGE 36 OF PARCEL MAPS.

BENCHMARK:
CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

APPROVED FOR CONSTRUCTION
LAS VEGAS FIRE AND RESCUE
DATE: 9-19-19

L# 119-01224 CLV DWG# 1078507

PROJECT NO.	764-A149-001
DESIGN:	
DRAWN:	
CHECK:	
PLOT DATE:	09-16-19
PLOT TIME:	10:41:58

1555 S. RAINBOW BLVD.
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gowingengineering.com

GCV
ENGINEERS & SURVEYORS

Project: 764-A149-001, DWG: production, 764-A149-001.dwg
Nicholas G. Gowing

PULTE HOMES	STARRING FOXTAIL
SUMMERLIN VILLAGE 24A PARCEL N	TRAFFIC PLAN 3

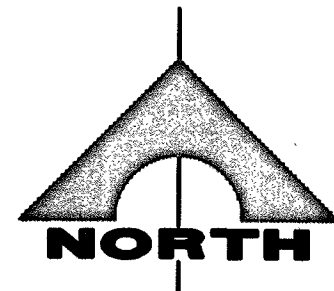
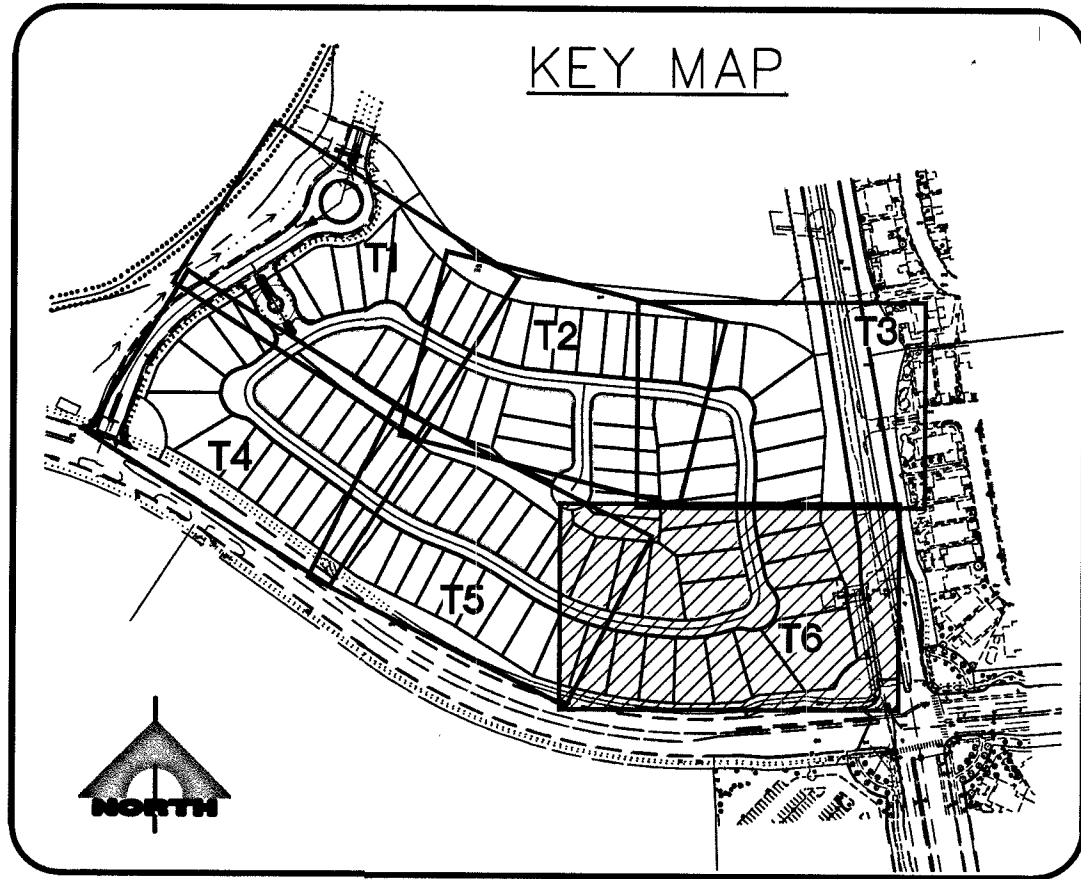
DRAWING

T3

34 OF 37 SHTS

MATCH LINE SEE SHEET T2

MATCH LINE SEE SHEET T3



30' 0' 15' 30'
SCALE: 1" = 30'

CONSTRUCTION NOTES

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LINE AND CURVE TABLE

SEE SHEET T2 FOR LINE AND CURVE TABLE

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ELEVATION: 3246.63 (FEET)
989.574 (METERS)

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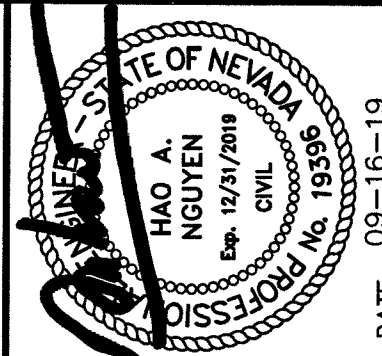
APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE

DATE

L# 119-01224

CLV DWG# 1074511



PROJECT NO.	DESIGN	DRAWN	CHECK	PLOT DATE	PLOT TIME
764-A149-001	764-A149-001	764-A149-001	764-A149-001	09-16-19	12:03:29

GCV
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gcvengineering.com
f:\Projects\700\764-a149-001\DWG\Production\764-A149-001.dwg
Nicholas DeRosa

PULTE HOMES

STARTING - FOXTAIL
SUMMERLIN VILLAGE 24A PARCEL N

TRAFFIC PLAN 6

DRAWING

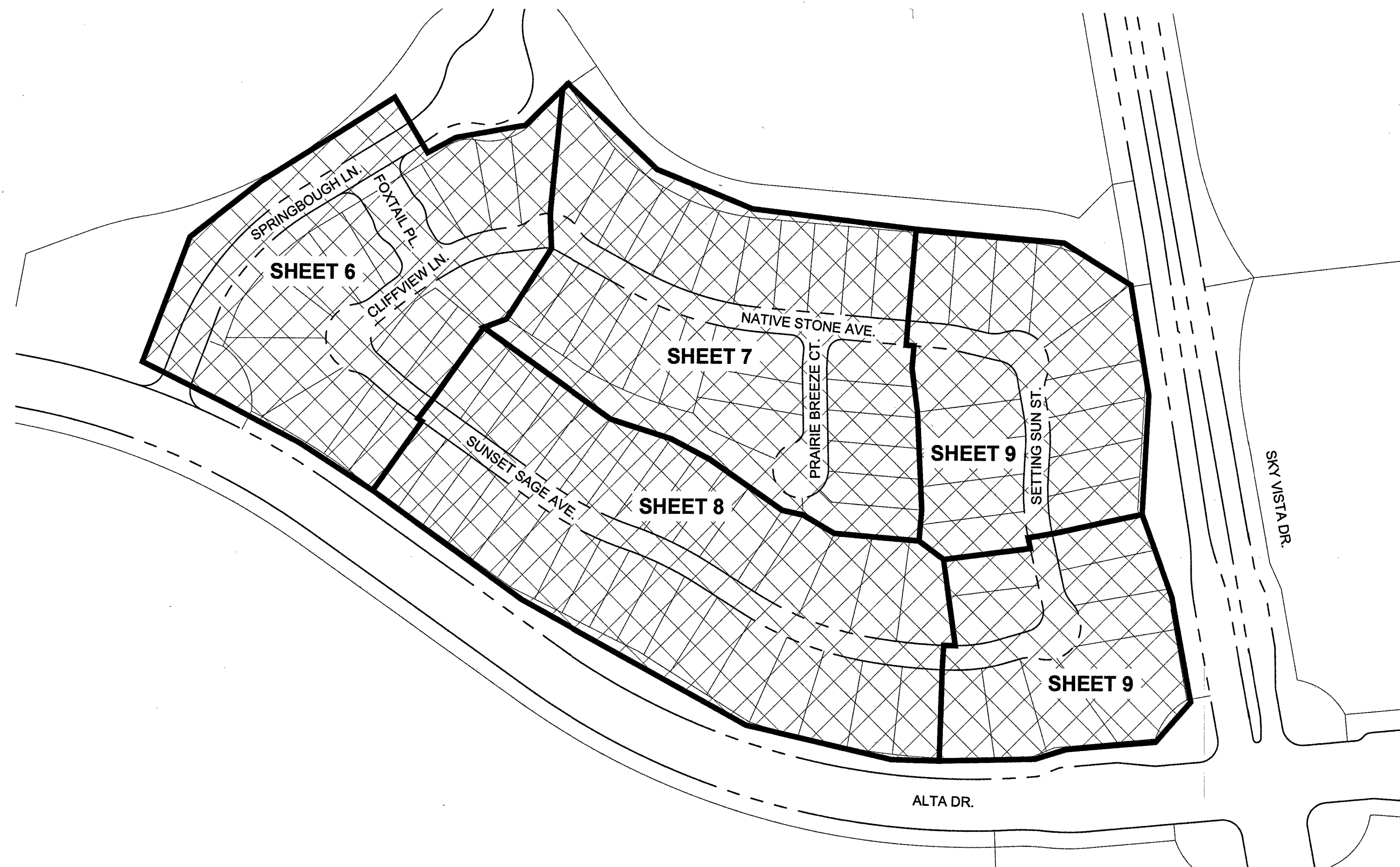
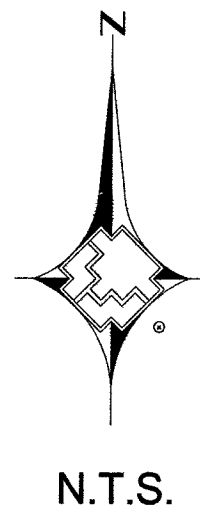
T6

37 OF 37 SHTS



LEGEND

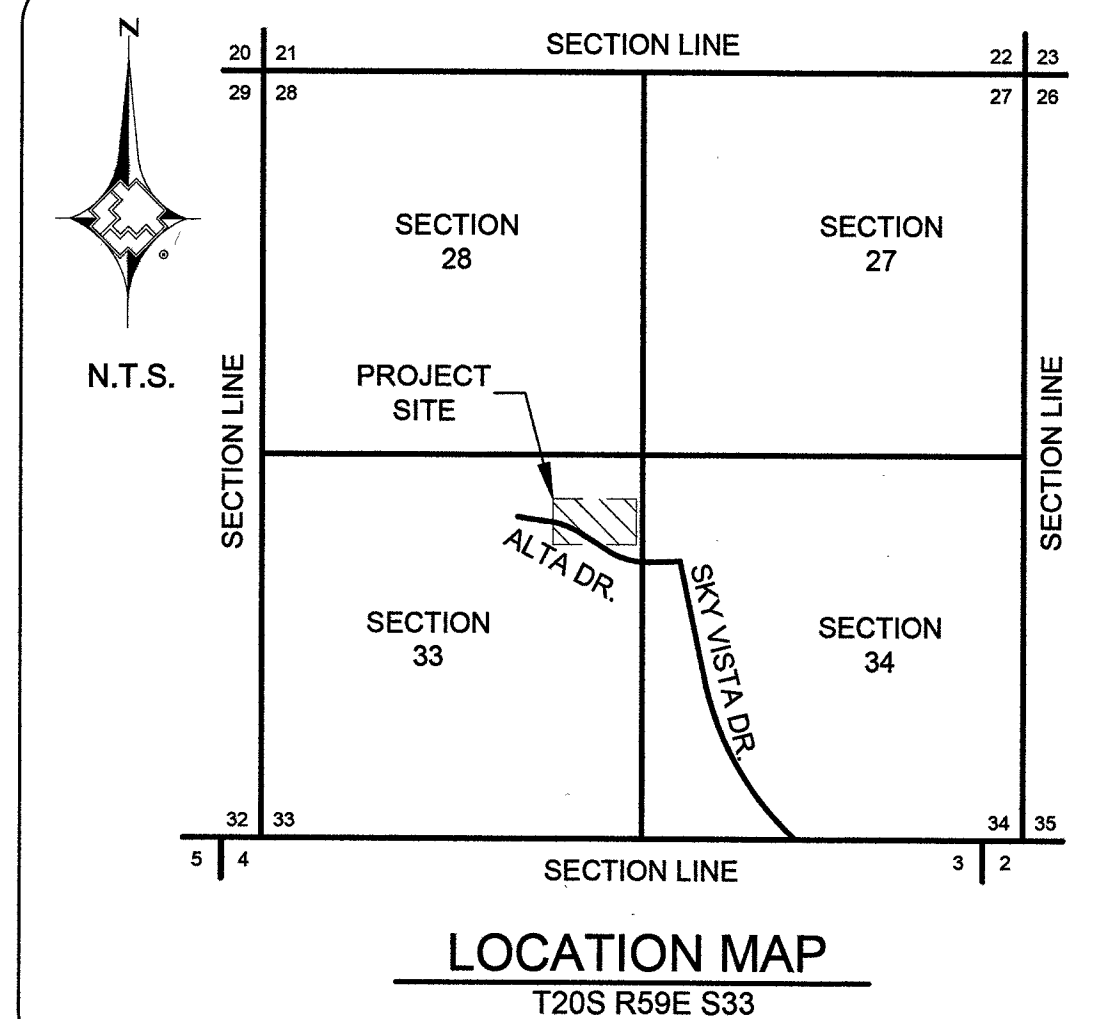
EXISTING GAS MAIN	
EXISTING GAS SERVICE	
GAS LINE TO BE ABANDONED	
STEEL RISER	
ANODELESS RISER	
GASLIGHT	
GAS VALVE	
EXCESS FLOW VALVE	
RELIEF VALVE	
COUPLINGS	
BOND OVER	
TEST POINT	
INSULATOR	
REGULATOR STATION	
RECTIFIER	
ANODE	
SCADA	
METER SET ASSEMBLY	
PURGE POINT	
BRANCH,CVT,LINE STOPPER	
PROPOSED GAS MAIN	
PROPOSED GAS SERVICE	
EXISTING EASEMENT	
ROW LINE	
PROPERTY LINE	
STREET CENTERLINE	
EDGE OF PAVEMENT	
CABLE LINE - UNDERGROUND	
ELECTRIC - OVERHEAD	
ELECTRIC - UNDERGROUND	
FIBER OPTIC - UNDERGROUND	
PHONE - OVERHEAD	
PHONE - UNDERGROUND	
RECLAIMED WATER	
SEWER	
STORMWATER	
WATER	
UTILITY PEDESTALS	
FIRE HYDRANT	
MANHOLE	
WATER VALVE	
SURVEY MONUMENT	
POWER POLE	
GAS FLOW ARROW	



SHEET INDEX MAP

SHEET INDEX

- 1 COVERSHEET
- 2 SIGNATURE SHEET
- 3-5 NOTES AND STANDARD DETAILS
- 6-9 PLAN SHEET



City of Las Vegas

Total footage located in Public ROW 0'

APPROVED FOR CONSTRUCTION

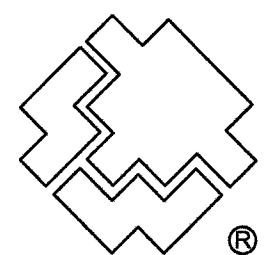
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Approval _____ Date _____

CUSTOMERS 92



Know what's below.
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SOUTHWEST GAS CORPORATION

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REVISIONS			
NO.	DESCRIPTION	BY	DATE APPVD
PERMIT INFORMATION			
CITY OF LAS VEGAS TAX CODE 02-0200	ISO_21_DIST_323	T20S R59E S33 M.D.M.	x561y516

D_W_VALLEY	
SYSTEM MAOP:	60
SYSTEM MOP:	55
N/A	
SYSTEM MAOP:	N/A
SYSTEM MOP:	N/A

JOB TYPE	
HP SERVICE	☐
DISTRIBUTION	☒
FEEDER	☐
TRANS. BY DEF	☐
TRANS > 20%	☐

WR NO.	
3875811	
RELATED WR NO.S	
N/A	

ENGINEER/TECHNICIAN	JALANIA WRIGHT	PHONE: 702-365-2188
ACCOUNT REP.	ANDREW CARLSON	PHONE: 702-365-2060
PROJECT CONTACT	DAVE WAGNER	PHONE: 702-258-5011
SHEET NO.	1 OF 9	SCALE N.T.S.
DWN. BY	SEI	CHKD. BY JW
DATE	09/03/2019	APPVD. BY BWJ

V24 PARCEL N

PRESSURE TEST PERFORMED BY AND VERIFIED BY SIGNATURES

I HAVE **PERFORMED** THE PRESSURE TESTS AS SHOWN ON THE AS-BUILT AND IN ACCORDANCE WITH THE OPERATIONS MANUAL.
I HAVE **VERIFIED** THE PRESSURE TESTS AS SHOWN ON THE AS-BUILT AND IN ACCORDANCE WITH THE OPERATIONS MANUAL.

PRESSURE TEST # _____ PERFORMED BY _____ DATE _____

SWG VERIFIED BY _____ DATE _____

PURGE PLAN PERFORMED BY SIGNATURES

PURGE PLAN WAS COMPLETED IN ACCORDANCE WITH THE OPERATIONS MANUAL GUIDELINES:

PERFORMED BY _____ DATE _____ SHEET# _____

LOCATION _____

PIPE JOINER VISUAL INSPECTION CERTIFICATION

I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT, CEMENT, MECHANICAL JOINTS, AND WELDS THAT I HAVE PERFORMED

NAME _____ PJQ# _____

2ND VISUAL INSPECTION CERTIFICATION

I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT, CEMENT AND MECHANICAL JOINTS THAT HAVE BEEN PERFORMED (INSPECTION OF FINAL JOINT ON PLASTIC PIPE ONLY)

NAME _____ PJQ# _____

CONSTRUCTION

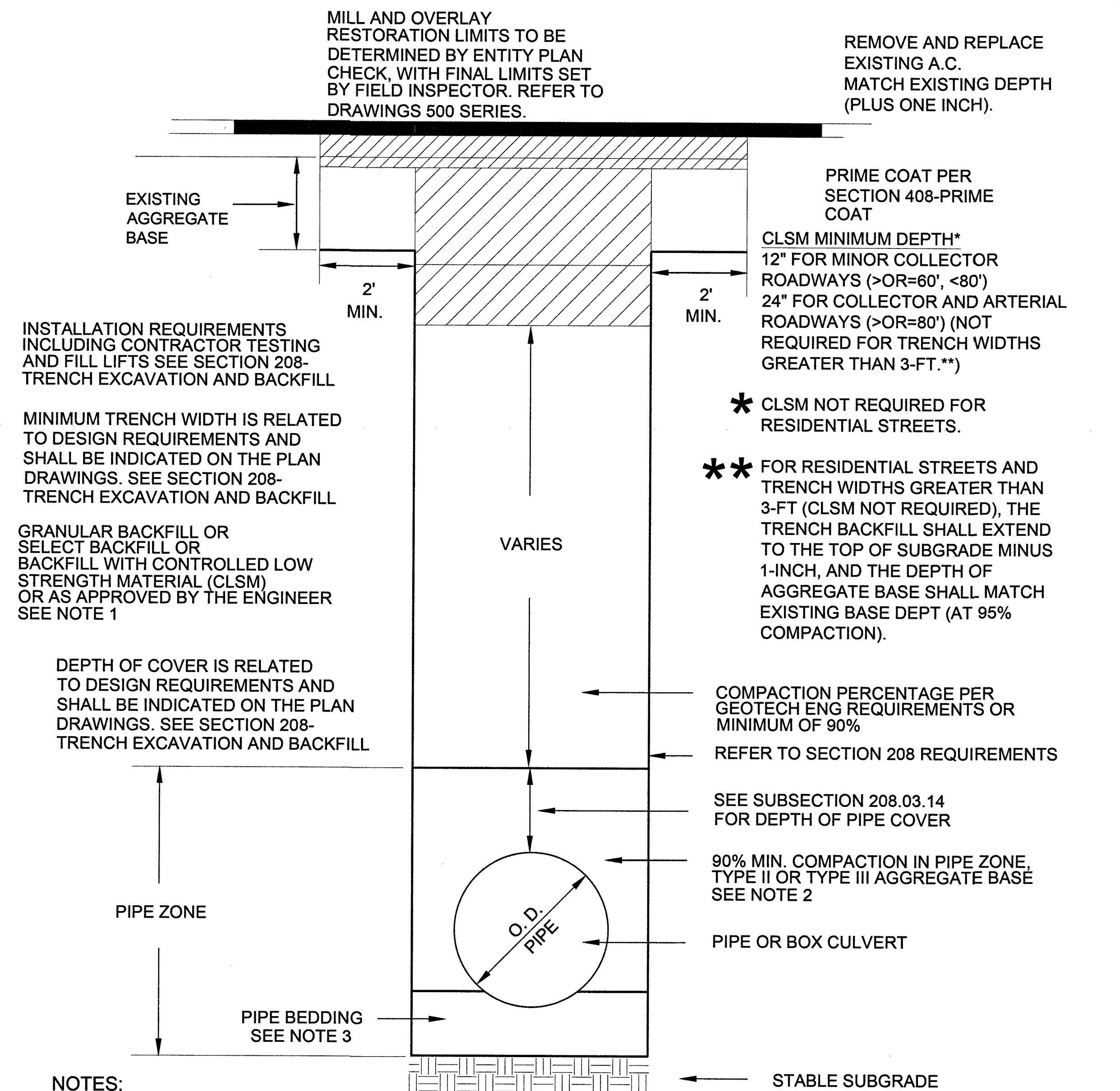
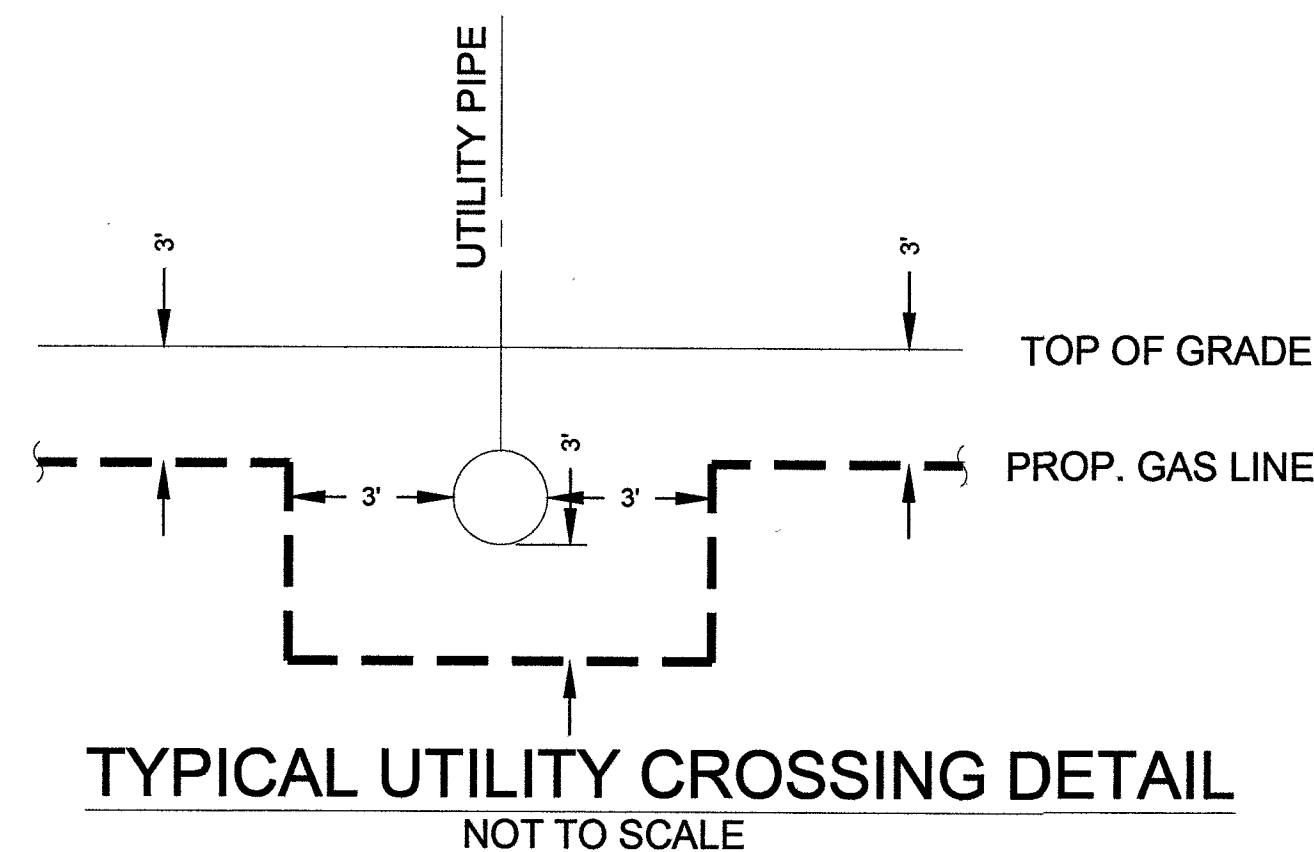
INSPECTOR _____ PJQ# _____

FOREMAN _____ PJQ# _____

REVIEWED BY _____ PJQ# _____

1. SUGGESTED GAS LOCATIONS ARE TO CLEAR SUBSTRUCTURES. LOCATE IN FIELD.
2. ALL PIPELINE CONSTRUCTION SHALL CONFORM TO APPLICABLE JURISDICTION SPECIFICATIONS..
3. DO NOT SCALE THIS DRAWING.
4. CHANGE IN PROPOSED MAIN LOCATION MUST BE AUTHORIZED BY SWG ENGINEER PRIOR TO INSTALLATION.
5. GAS MAINS SHALL BE PURGED PER OPERATIONS MANUAL.
6. ALL EXISTING UTILITY LOCATIONS TO BE VERIFIED PRIOR TO START OF CONSTRUCTION.
7. TRENCH IS TO BE EXCAVATED TO THE DEPTH AND WIDTH AS INDICATED ON THE TRENCH DETAIL(S).
8. CONTACT ENGINEERING FOR BYPASS INFORMATION.
9. ALL MAIN TIE-INS REQUIRING TEES ARE TO BE FULL-FLOW TEES UNLESS OTHERWISE STATED..
10. ALL SHORING REQUIREMENTS SHALL CONFORM TO APPLICABLE PORTIONS OF THE OPERATIONS MANUAL..
11. REQUEST FOR SURVEYING AND/OR STAKING WILL BE SUBMITTED TO ENGINEERING 72 HOURS IN ADVANCE, MINIMUM.
12. TRENCHING AND PAVEMENT REPLACEMENT SHALL CONFORM WITH RTC STANDARD 503 AND UNIFORM STANDARD SPEC SECTION 208.
13. MINIMUM TEST DURATION REQUIREMENTS AND GUIDELINES FOR MAIN INSTALLATION IN SYSTEMS <60PSIG ARE:
 - A. MINIMUM TEST DURATION IS 8 HOURS FOR PIPES 1-1/4-INCHES OR GREATER, WITH FOOTAGES BETWEEN 3,001 FEET AND 10,000 FEET.
 - B. ALL FOOTAGES GREATER THAN 3,000 FEET REQUIRE A CHART.
- C. CONSTRUCTION SHALL CONTACT ENGINEERING FOR MINIMUM TEST DURATIONS IF THE FOOTAGE TO BE TESTED EXCEEDS 10,000 FEET.

DESIGN PIPE SUMMARY	
DESIGN QTY.	DESCRIPTION
124'	4" PE MAIN
3,193'	2" PE MAIN
1,622'	1" PE SERVICE



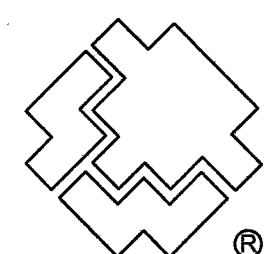
- NOTES:**
1. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
2. TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.
3. CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY. SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.
4. LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN THE PIPE ZONE TO BE OF THE SAME MATERIAL.

RTC STD DWG 503

ABBREVIATIONS:		NOT TO SCALE	
AA	ALDYL-A PIPE	OC	ON CENTER
ABND	ABANDONED	OD	OUTSIDE DIAMETER
AC	ASPHALTIC CONCRETE	OH	OVERHEAD
AC#	ACCELERATED CONSTRUCTION	OHE	OVERHEAD ELECTRIC
ACP	ASBESTOS CEMENT PIPE		
APN	ASSESSOR PARCEL NUMBER	P	POWER
		PAOP	POTENTIAL ALLOWABLE OPERATING PRESSURE
BLVD	BOULEVARD	PCC	PORTLAND CEMENT CONCRETE
BM	BENCHMARK	PE	POLYETHYLENE PIPE
BO	BLOW OFF	PH	POT HOLE
BTU	BRITISH THERMAL UNIT	PHMSA	PIPELINE & HAZARDOUS MATERIALS SAFETY
			ADMINISTRATION
CIP	CAST IRON PIPE	PL	PROPERTY LINE
CL	CENTERLINE	PIC	POTENTIAL IMPACT CIRCLE
CMP	CORRUGATED METAL PIPE	PLS	PRESSURE LIMITING STATION
CP	CATHODIC PROTECTION	P.O.B	POINT OF BEGINNING
		PP	POWER POLE
D	INSIDE DIAMETER	PROP	PROPOSED
DDCA	DESIGN DATA COLLECTION APPLICATION	PQF	PREQUALIFIED FITTING
DET	DETAIL	PSIG	POUNDS PER SQUARE INCH (GAUGE)
DIP	DUCTILE IRON PIPE	PVC	POLYVINYL CHLORIDE
DIA	DIAMETER	PUE	PUBLIC UTILITY EASEMENT
DIMP	DISTRIBUTION INTEGRITY MANAGEMENT PROGRAM		
DP	DESIGN PRESSURE	RC	REINFORCED CONCRETE
DWG	DRAWING	RCP	REINFORCED CONCRETE PIPE
		ROW	RIGHT OF WAY
EFV	EXCESS FLOW VALVE		
EG	EXISTING GRADE	SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
ELEC	ELECTRICAL	SD	STORM DRAIN
ELEV	ELEVATION	SDMH	STORM DRAIN MANHOLE
EMS	ELECTRONIC MARKING SYSTEM	SDR	STANDARD DIMENSION RATIO
E.P	END POINT	SF	SQUARE FOOT
EPR	ELECTRONIC PRESSURE RECORDERS	SHT	SHEET
ESMT	EASEMENT	SLSV	SERVICE LINE SHUT-OFF VALVE
EX	EXISTING	SMYS	SPECIFIED MAXIMUM YIELD STRENGTH
		SS	SANITARY SEWER
FERC	FEDERAL ENERGY REGULATORY COMMISSION	SST	STAINLESS STEEL
FH	FIRE HYDRANT	ST	STREET
		STA	STATION
GIR	GAS INFRASTRUCTURE REPLACEMENT	STL	STEEL
GPR	GAS PRESSURE REGULATOR	SWG	SOUTHWEST GAS
HCA	HIGH CONSEQUENCE AREA	TDS	TEST DATA SHEET
HDD	HEATING DEGREE DAY	TEL	TELEPHONE
HDPE	HIGH DENSITY POLYETHYLENE PIPE	TB	THRUST BLOCK
HP	HIGH PRESSURE	TOP	TOP OF PIPE
HOP	HISTORIC OPERATING PRESSURE	TP	TEST POINT
HVTT	HIGH VOLUME TAPPING TEE	TS	TECHNICAL SERVICE NOTE
		TRIMP	TRANSMISSION INTEGRITY MANAGEMENT PROGRAM
IN	INCH(ES)	TYP	TYPICAL
IPS	IRON PIPE SIZE		
		U.E.	UTILITY EASEMENT
JT	JOINT TRENCH	UGE	UNDERGROUND ELECTRIC
		UOC	UNUSUAL OPERATING CONDITION
MAOP	MAXIMUM ALLOWABLE OPERATING PRESSURE	USD	UNIFORM STANDARD DRAWING
M&C	MEASUREMENTS & CONTROL	UGT	UNDERGROUND TELEPHONE
MCFH	THOUSAND CUBIC FEET PER HOUR		
MH	MANHOLE	VCP	VITRIFIED CLAY PIPE
MOP	MAXIMUM OPERATING PRESSURE	VERT	VERTICAL
MP	MANUFACTURER'S PRESSURE RATING	VG	VALLEY GUTTER
MSA	METER SET ASSEMBLY	VSP	VINTAGE STEEL PIPE
MVP	MAPPING VERIFICATION PROCEDURE		
		W	WATER
NAP	NOT A PART	WMS	WORK MANAGEMENT SYSTEM
NTSB	NATIONAL TRANSPORTATION SAFETY BOARD	WR	WORK REQUEST
		WT	WALL THICKNESS
		WV	WATER VALVE
		YD	YARD(S)



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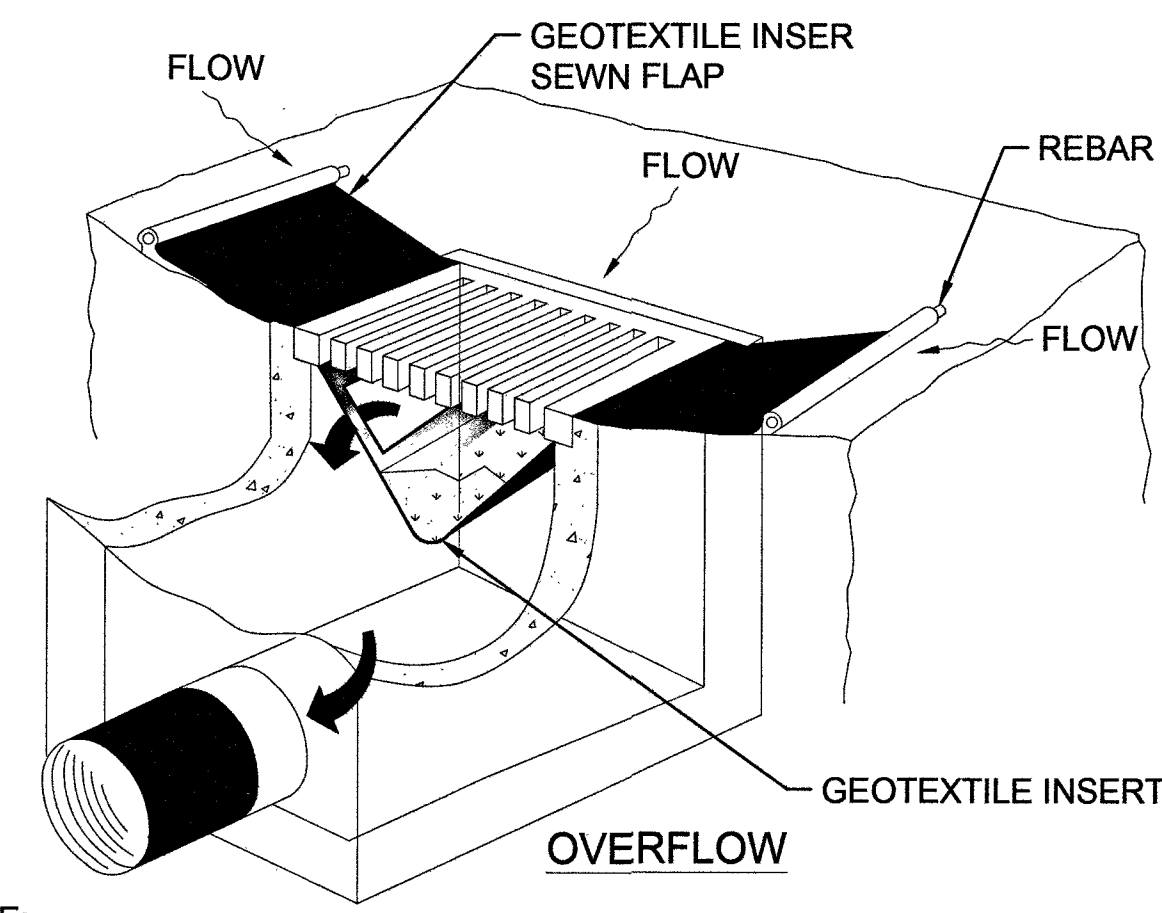
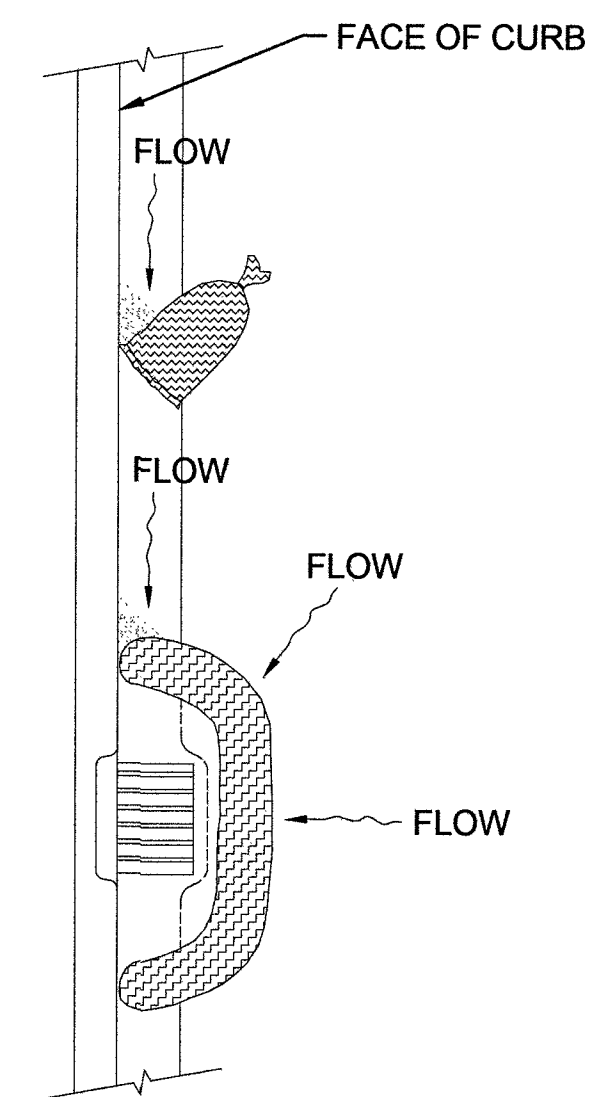
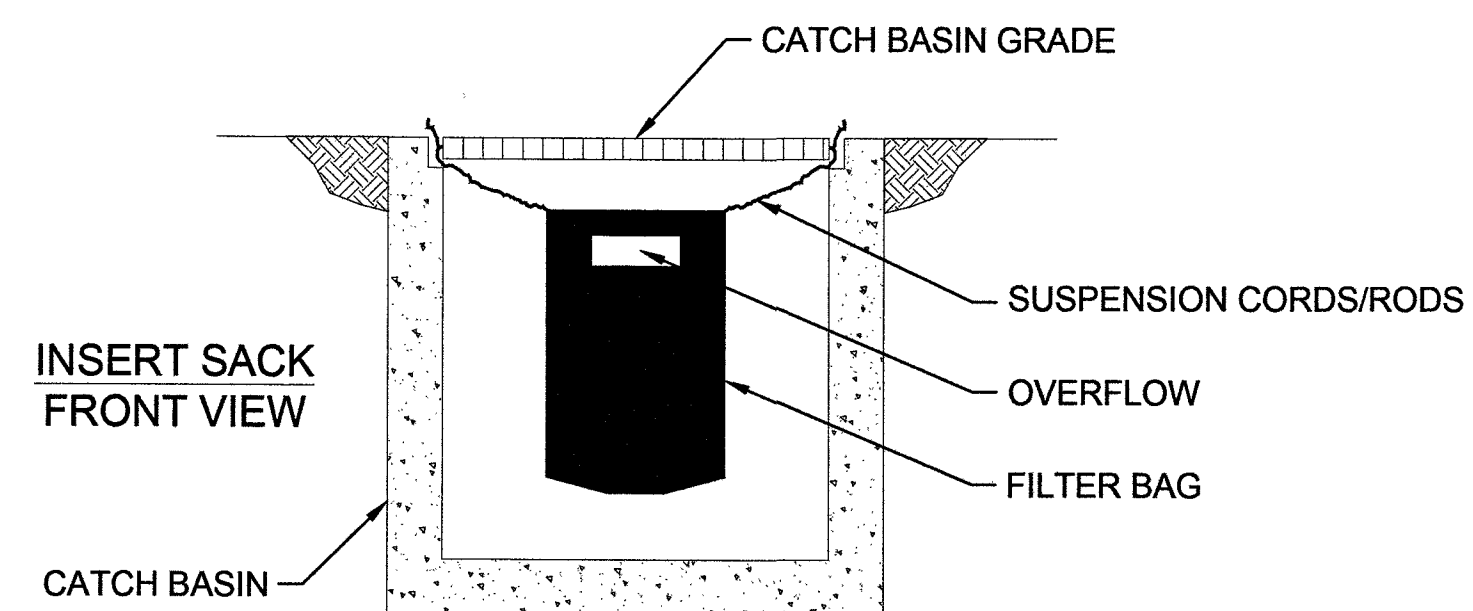
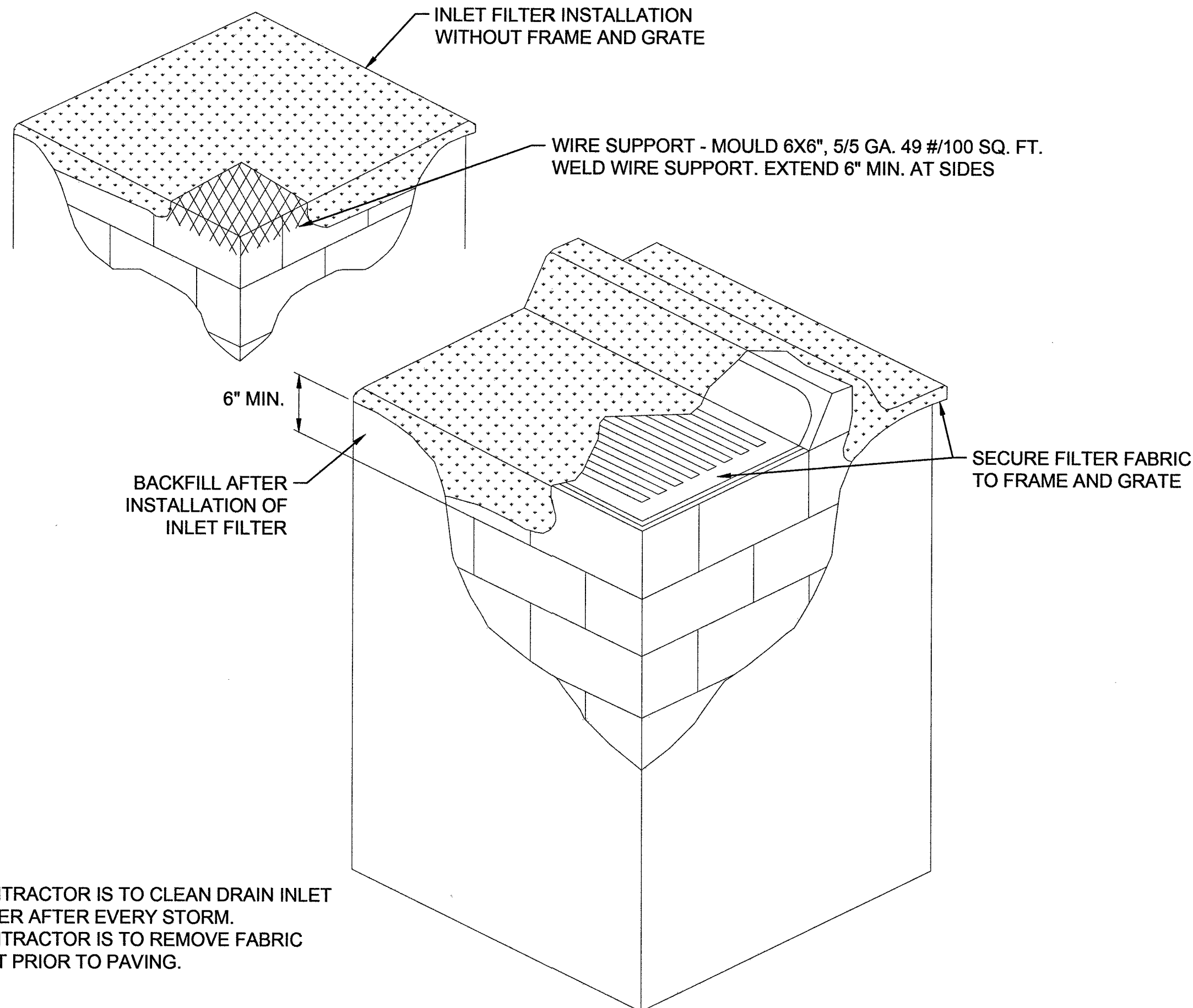
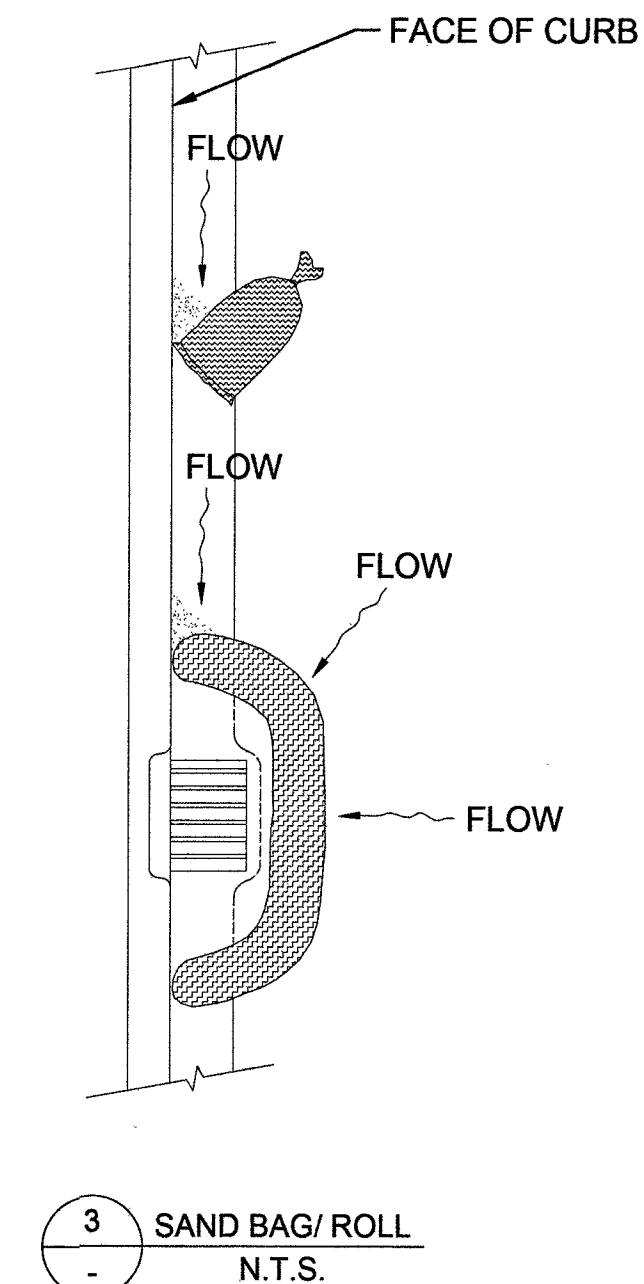
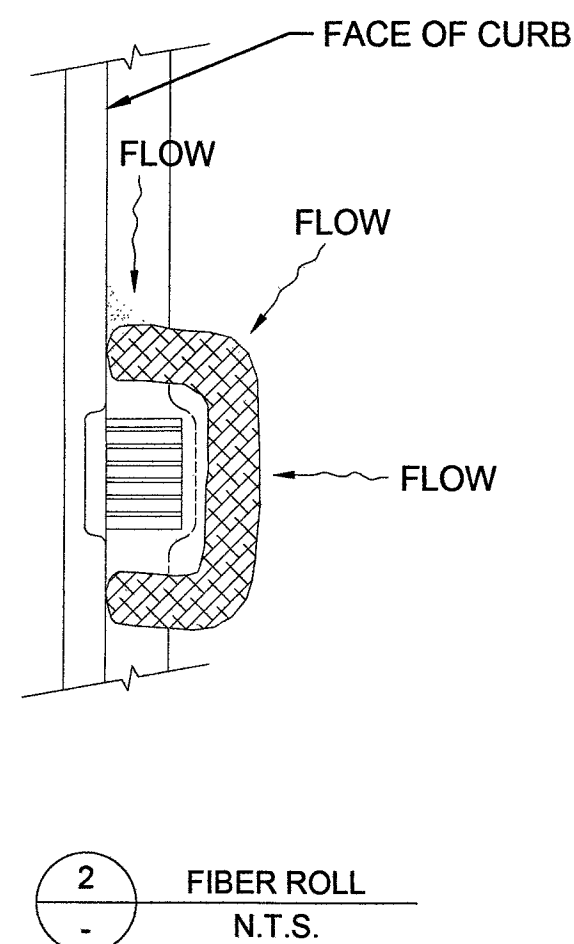
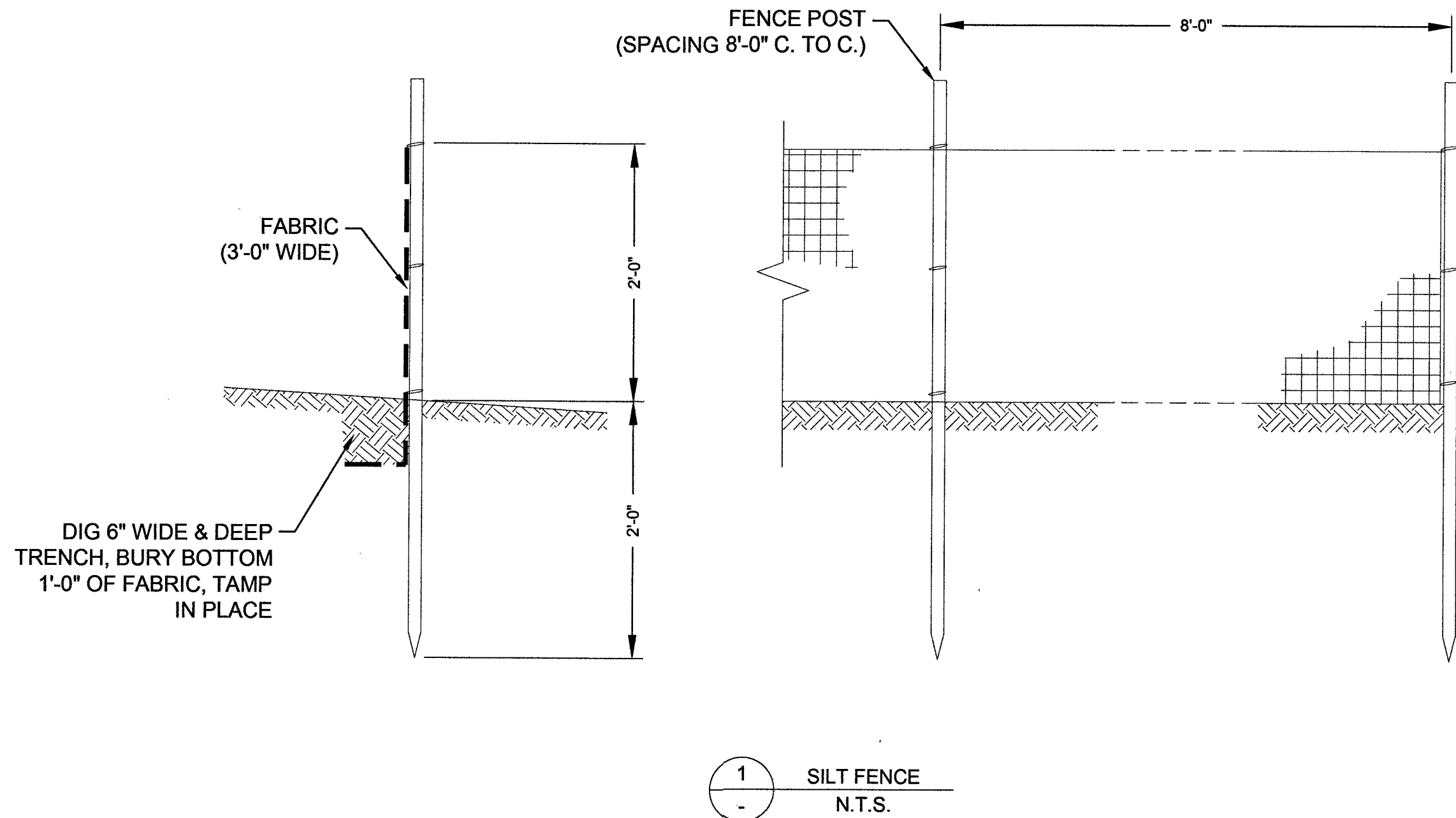
SOUTHWEST GAS CORPORATION

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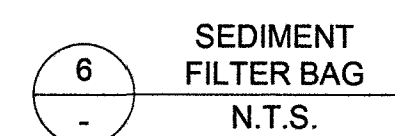
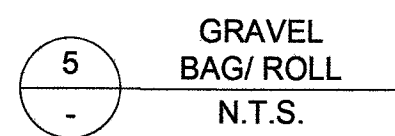
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REVISIONS					D_W_VALLEY		JOB TYPE		WR NO.		ENGINEER/TECHNICIAN JALANIA WRIGHT PHONE: 702-365-2188		
					SYSTEM MAOP: 60		HP SERVICE ☐		3875811		ACCOUNT REP. ANDREW CARLSON PHONE: 702-365-2060		
					SYSTEM MOP: 55		DISTRIBUTION ☒				PROJECT CONTACT DAVE WAGNER PHONE: 702-258-5011		
											SHEET NO. 3 OF 9 SCALE N.T.S. DATE 09/03/2019		
NO.	DESCRIPTION				BY	DATE	APPVD.			DWN. BY SEI		CHKD. BY JW	APPVD. BY BWJ
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE	N/A		FEEDER ☐		RELATED WR NO.S		V24 PARCEL N 1/4, T20S R59E S33 M.D.M., 		
CITY OF LAS VEGAS TAX CODE 02-0200		ISO_21_DIST_323	T20S R59E S33 M.D.M.	x561y516	SYSTEM MAOP: N/A		TRANS. BY DEF ☐		N/A				
					SYSTEM MOP: N/A		TRANS > 20% ☐				40		

TYPICAL SWPPP BMP DETAILS



- NOTE:**
- 1. CONTRACTOR IS TO CLEAN DRAIN INLET FILTER AFTER EVERY STORM.**
 - 2. CONTRACTOR IS TO REMOVE FABRIC JUST PRIOR TO PAVING.**

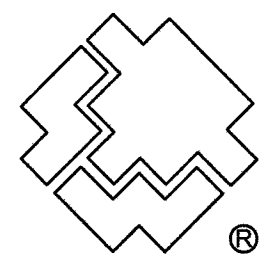


SWPPP NOTES

1. SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL INSTALL ONE OF THE APPROPRIATE BMPs FOR THE PROTECTION OF EXISTING STORM DRAIN INLETS, WITHIN OR SIGNIFICANTLY NEAR ANY IMPROVED RIGHT-OF-WAY, FROM DEBRIS AND SEDIMENT RESULTING FROM CONSTRUCTION OF NATURAL GAS FACILITIES.
2. SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM, USING BEST MANAGEMENT PRACTICES DETAILED ON THIS SHEET.
3. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE LISTED BMPs ON THIS SHEET DO NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CLARK COUNTY CODE - CHAPTER 24.40/STORM SEWER SYSTEM DISCHARGE AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
4. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.



Know what's **below**.
Call before you dig.



SOUTHWEST GAS CORPORATION

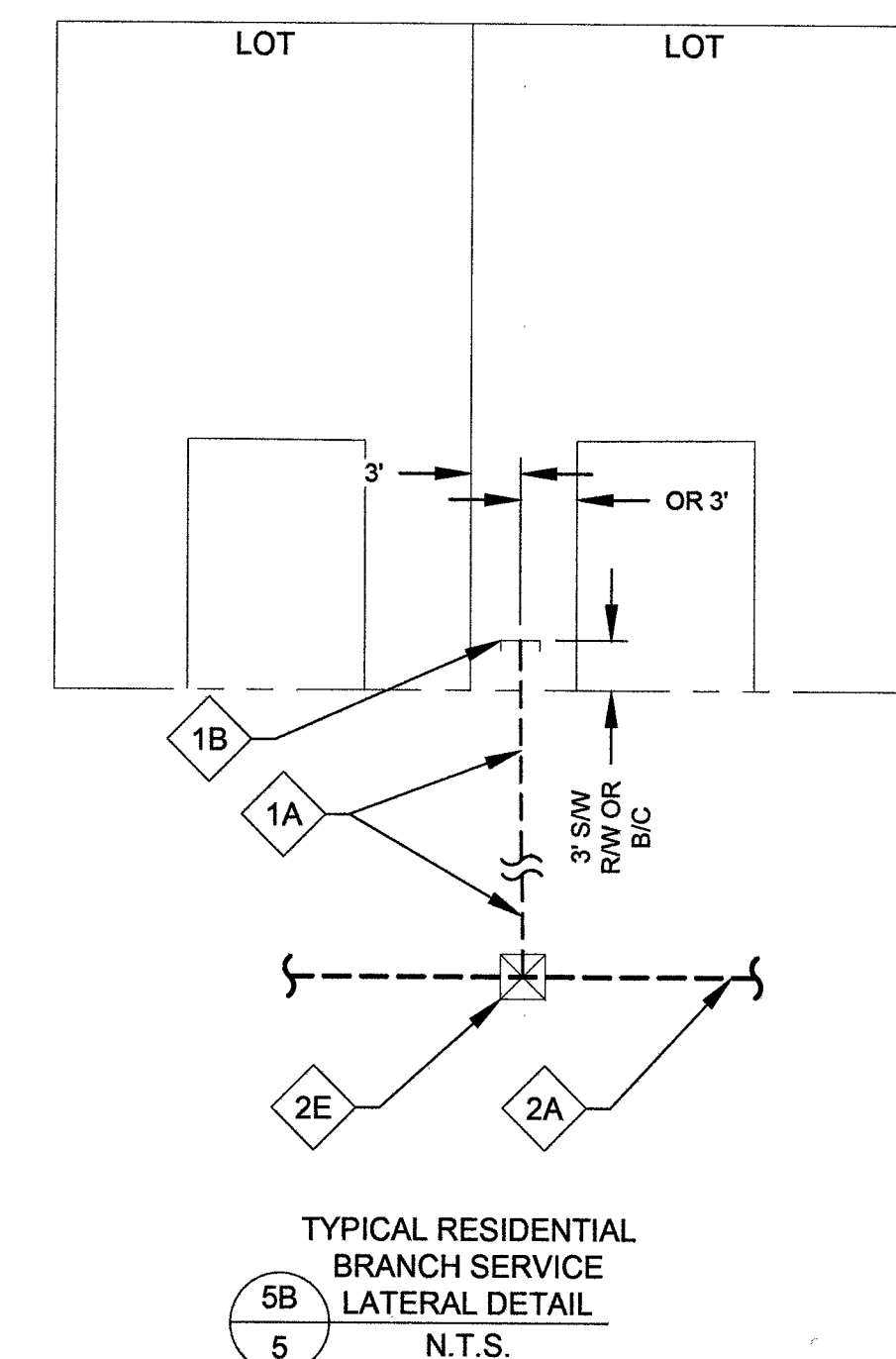
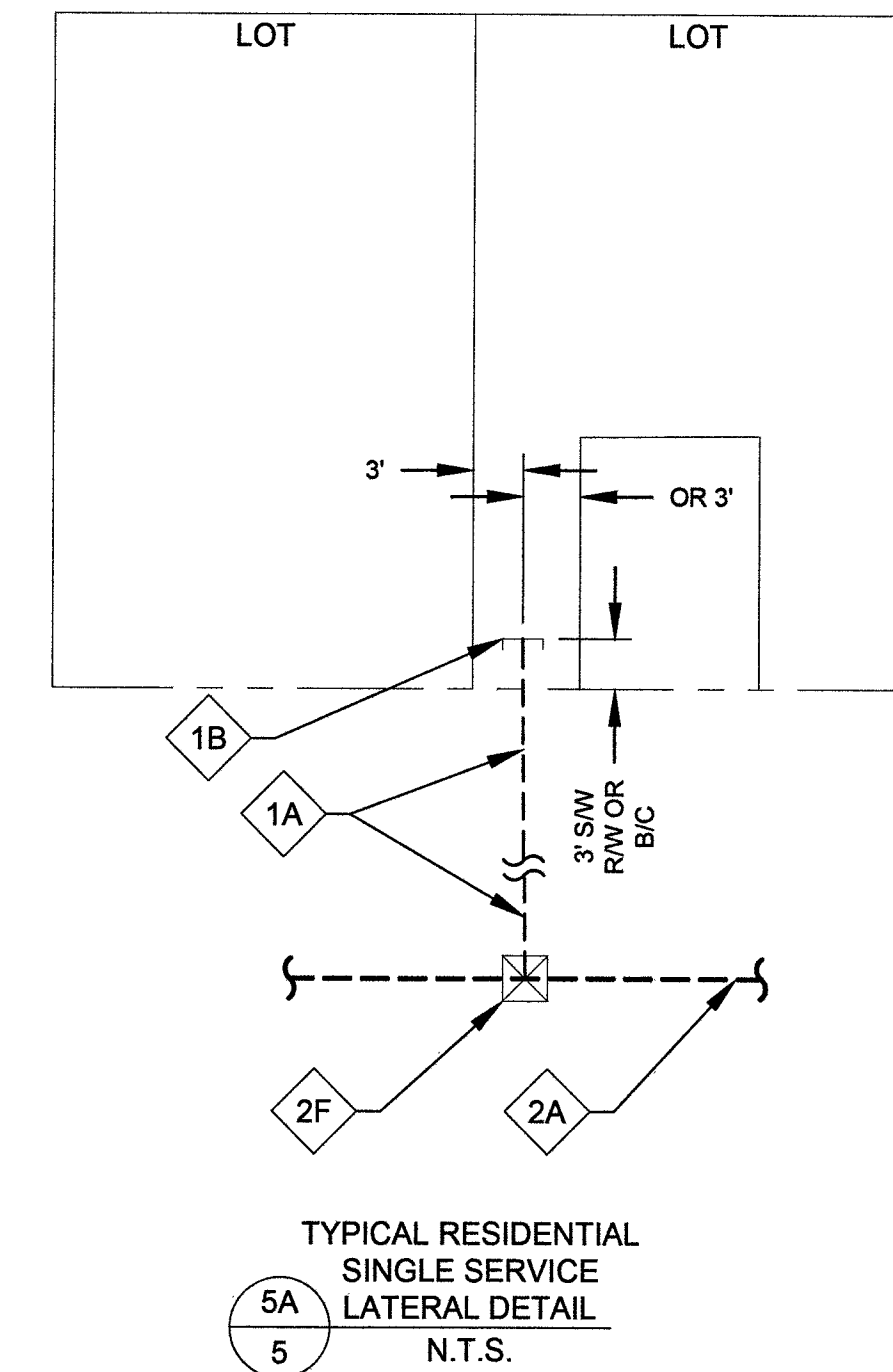
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REVISIONS						D_W_VALLEY		
						SYSTEM MAOP:	60	
NO.	DESCRIPTION			BY	DATE	APPVD.	SYSTEM MOP:	55
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE		N/A		
CITY OF LAS VEGAS TAX CODE 02-0200		ISO_21_DIST_323	T20S R59E S33 M.D.M.	x561y516		SYSTEM MAOP:	N/A	
						SYSTEM MOP:	N/A	

JOB TYPE		WR NO.	ENGINEER/TECHNICIAN		JALANIA WRIGHT	PHONE: 702-365-2188
HP SERVICE	☐	3875811	ACCOUNT REP.		ANDREW CARLSON	PHONE: 702-365-2060
DISTRIBUTION	☒		PROJECT CONTACT		DAVE WAGNER	PHONE: 702-258-5011
FEEDER	☐		SHEET NO. 4 OF 9		SCALE N.T.S.	DATE 09/03/2019
TRANS. BY DEF		RELATED WR NO.S	DWN. BY SEI		CHKD. BY JW	APPVD. BY BWJ
TRANS > 20%			N/A	V24 PARCEL N 41		

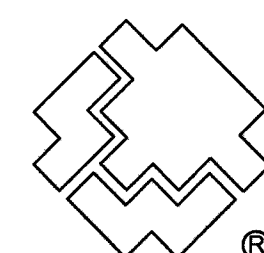


2" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
2A	0'	0'	100-5101	2" PE MAIN	N/A	N/A
2E	7	0	160-8394	2" X 1" PE TAPPING TEE W/1800 EFV	N/A	N/A
2F	78	0	160-8577	2" X 1" PE TAPPING TEE W/1200 EFV	N/A	N/A

1 1/4" AND BELOW, DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
1A	1,622'	0'	101-8526	1" PE SERVICE	N/A	N/A
1B	85	0	850-8773	1" PE CAP	N/A	N/A



Know what's **below**.
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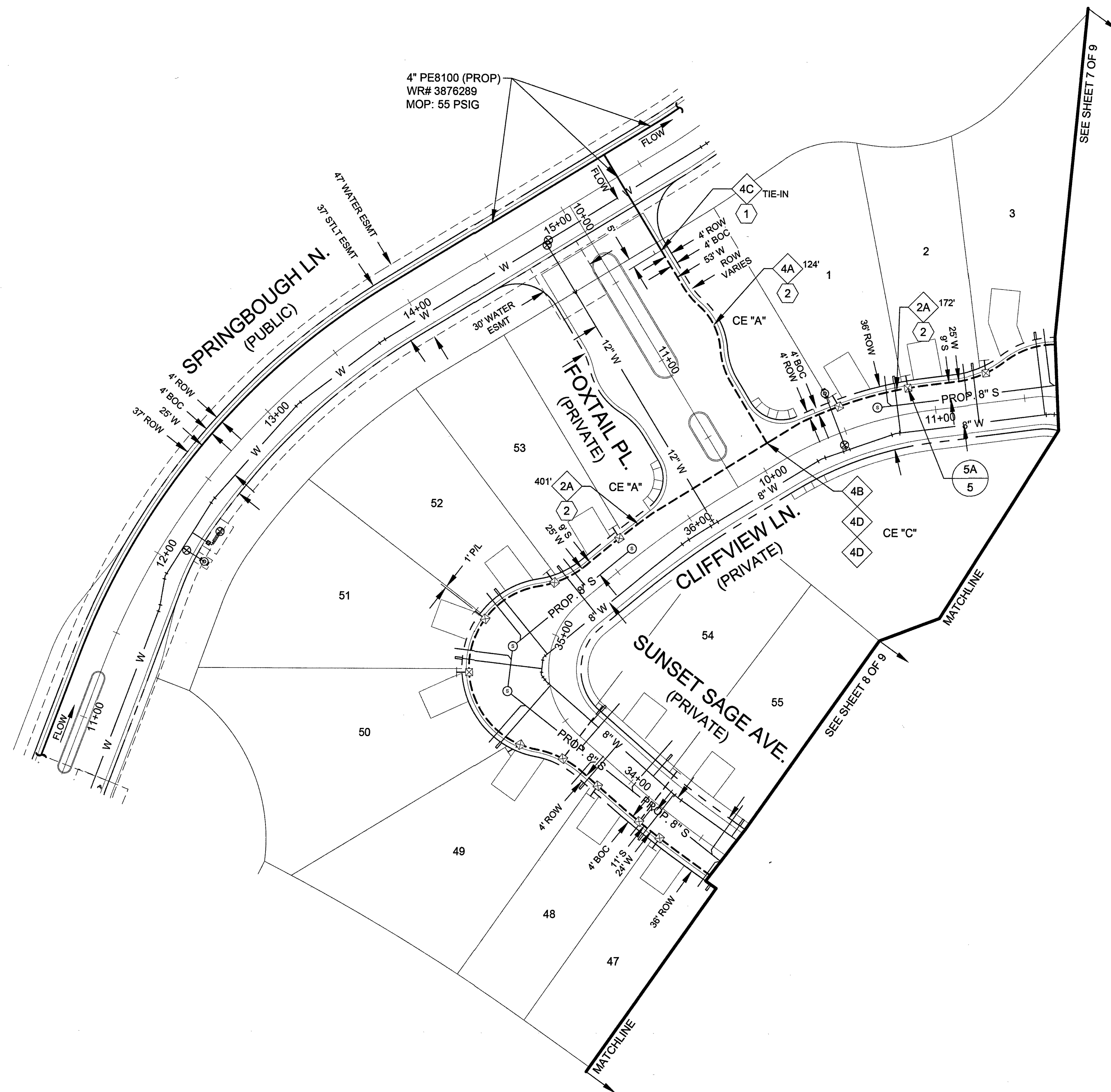
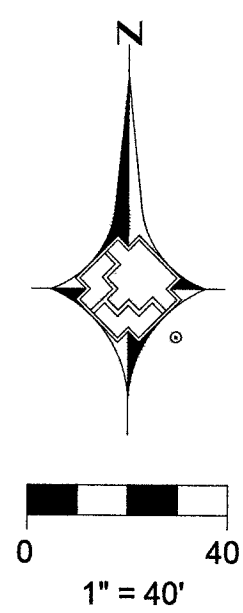
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REVISIONS					D_W_VALLEY		JOB TYPE		WR NO.		ENGINEER/TECHNICIAN JALANIA WRIGHT PHONE: 702-365-2188	
					SYSTEM MAOP: 60		HP SERVICE ☐		3875811		ACCOUNT REP. ANDREW CARLSON PHONE: 702-365-2060	
					SYSTEM MOP: 55		DISTRIBUTION ☒				PROJECT CONTACT DAVE WAGNER PHONE: 702-258-5011	
											SHEET NO. 5 OF 9 SCALE N.T.S. DATE 09/03/2019	
NO.	DESCRIPTION			BY	DATE	APPVD.			RELATED WR NO.S		DWN. BY SEI CHKD. BY JW APPVD. BY BWJ	
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE	N/A		FEEDER ☐		N/A		V24 PARCEL N	
CITY OF LAS VEGAS TAX CODE 02-0200		ISO_21_DIST_323	T20S R59E S33 M.D.M.	x561y516	SYSTEM MAOP: N/A SYSTEM MOP: N/A		TRANS. BY DEF ☐ TRANS > 20% ☐					



4" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
4A	124'	0'	100-5201	4" PE MAIN	N/A	N/A
4B	1	0	140-3076	4" PE FULL FLOW TEE	N/A	N/A
4C	1	0	140-3530	4" PE COUPLING	N/A	N/A
4D	2	0	140-5118	4"x2" PE REDUCER	N/A	N/A

2" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
2A	573'	0'	100-5101	2" PE MAIN	N/A	N/A

CONSTRUCTION NOTES	
1	TIE NEW 4" PE8100 TO EXISTING 4" PE8100 (PROP)
2	RTC 503

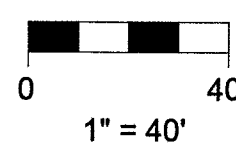
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REVISIONS						D_W_VALLEY		JOB TYPE		WR NO.		ENGINEER/TECHNICIAN		JALANIA WRIGHT		PHONE: 702-365-2188	
											3875811	ACCOUNT REP.		ANDREW CARLSON		PHONE: 702-365-2060	
												PROJECT CONTACT		DAVE WAGNER		PHONE: 702-258-5011	
												SHEET NO. 6 OF 9		SCALE 1" = 40'		DATE 09/03/2019	
NO.	DESCRIPTION					BY	DATE	APPVD.				DWN. BY SEI		CHKD. BY JW		APPVD. BY BWJ	
PERMIT INFORMATION		ISOLATION AREA		LOCATION		ATLAS OR TILE		N/A		FEEDER		RELATED WR NO.S		V24 PARCEL N			
CITY OF LAS VEGAS TAX CODE 02-0200		ISO_21_DIST_323		T20S R59E S33 M.D.M.		x561y516		SYSTEM MAOP: N/A		TRANS. BY DEF		N/A					
								SYSTEM MOP: N/A		TRANS > 20%							

43

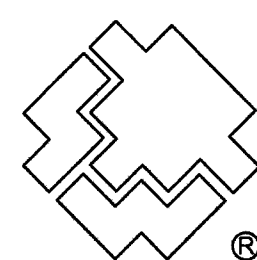


CONSTRUCTION NOTES	
2	RTC 503

2" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
2A	828'	0'	100-5101	2" PE MAIN	N/A	N/A
2B	1	0	140-3060	2" PE CAP	N/A	N/A
2D	1	0	140-3074	2" PE FULL FLOW TEE	N/A	N/A



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REVISIONS				
NO.	DESCRIPTION	BY	DATE	APPV
PERMIT INFORMATION	ISOLATION AREA	LOCATION	ATLAS OR TILE	
CITY OF LAS VEGAS TAX CODE 02-0200	ISO_21_DIST_323	T20S R59E S33 M.D.M.	x561y516	

	D_W_VALLEY	
	SYSTEM MAOP:	60
D.	SYSTEM MOP:	55
	N/A	
	SYSTEM MAOP:	N/A
	SYSTEM MOP:	N/A

JOB TYPE	
HP SERVICE	☐
DISTRIBUTION	☒
FEEDER	☐
TRANS. BY DEF	☐
TRANS > 20%	☐

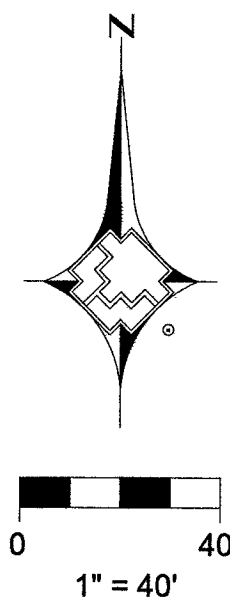
	WR NO.
	3875811
	RELATED WR NO.S
	N/A

ENGINEER/TECHNICIAN	JALANIA WRIGHT	PHONE: 702-365-2188
ACCOUNT REP.	ANDREW CARLSON	PHONE: 702-365-2060
PROJECT CONTACT	DAVE WAGNER	PHONE: 702-258-5011
SHEET NO. 7 OF 9	SCALE 1" = 40'	DATE 09/03/2019
DWN. BY SEI	CHKD. BY JW	APPVD. BY BWJ

V24 PARCEL N

44

4.



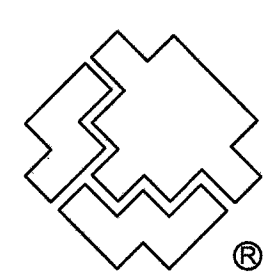
CONSTRUCTION NOTES	
2	RTC 503

2" DISTRIBUTION MATERIALS LIST					
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM COATING
2A	869'	0'	100-5101	2" PE MAIN	N/A N/A





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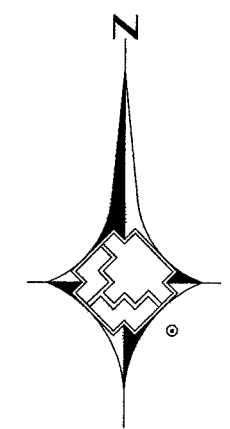
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REVISIONS						D_W_VALLEY		JOB TYPE		WR NO.		ENGINEER/TECHNICIAN JALANIA WRIGHT		PHONE: 702-365-2188			
						SYSTEM MAOP: 60		HP SERVICE ☐		3875811		ACCOUNT REP. ANDREW CARLSON		PHONE: 702-365-2060			
						SYSTEM MOP: 55		DISTRIBUTION ☒				PROJECT CONTACT DAVE WAGNER		PHONE: 702-258-5011			
NO.	DESCRIPTION			BY	DATE	APPVD.					SHEET NO. 8 OF 9		SCALE 1" = 40'		DATE 09/03/2019		
										RELATED WR NO.S		DWN. BY SEI		CHKD. BY JW		APPVD. BY BWJ	
PERMIT INFORMATION		ISOLATION AREA		LOCATION		ATLAS OR TILE		N/A		N/A		FEEDER ☐		V24 PARCEL N			
CITY OF LAS VEGAS TAX CODE 02-0200		ISO_21_DIST_323		T20S R59E S33 M.D.M.		x561y516		SYSTEM MAOP: N/A				TRANS. BY DEF ☐					
								SYSTEM MOP: N/A				TRANS > 20% ☐					

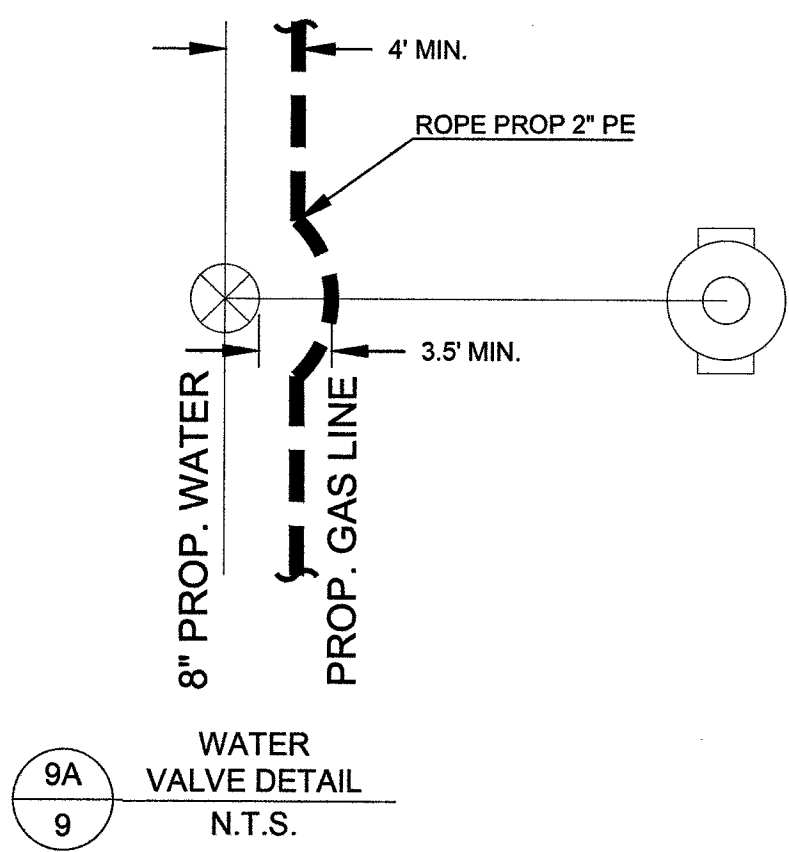
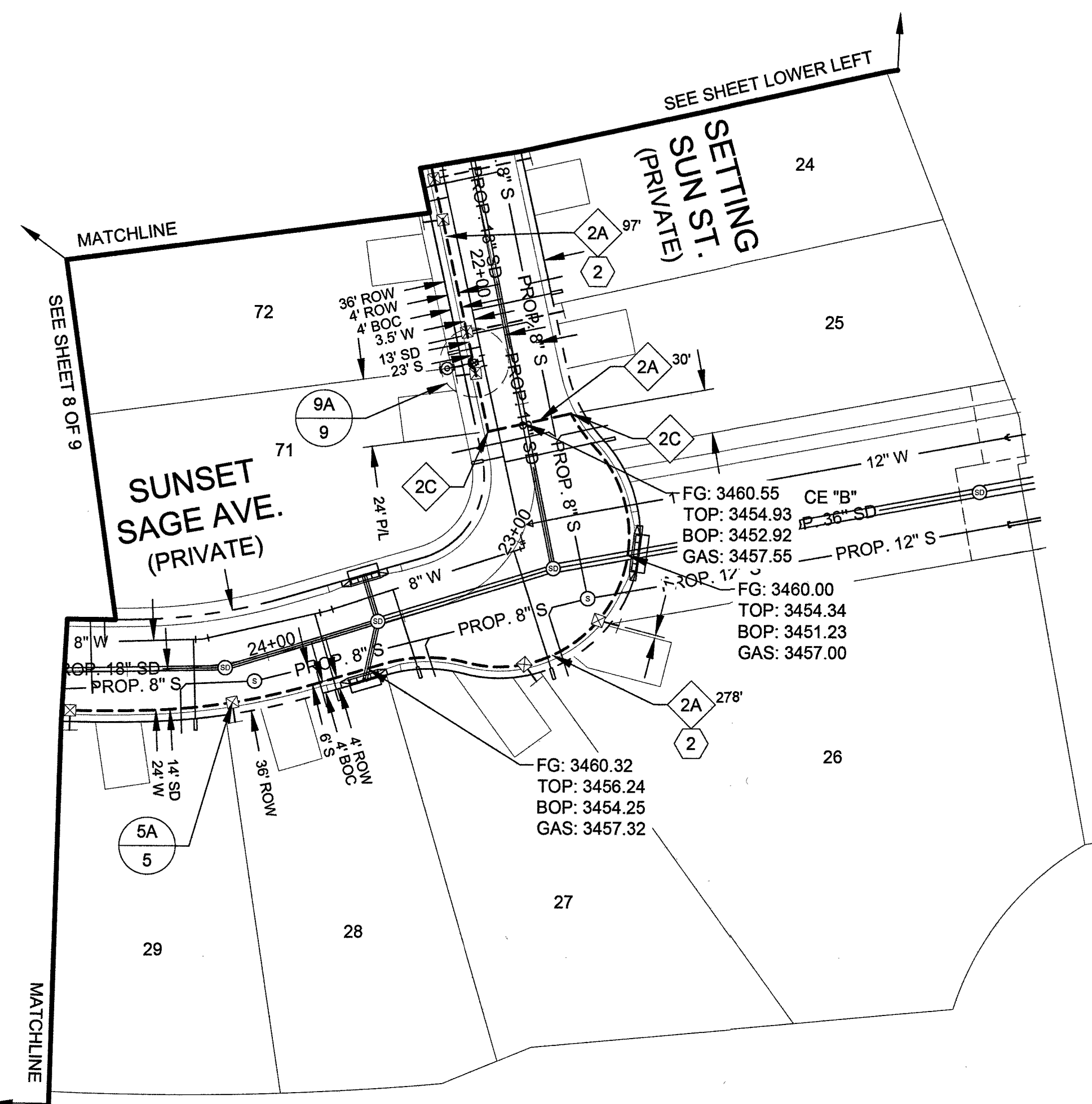
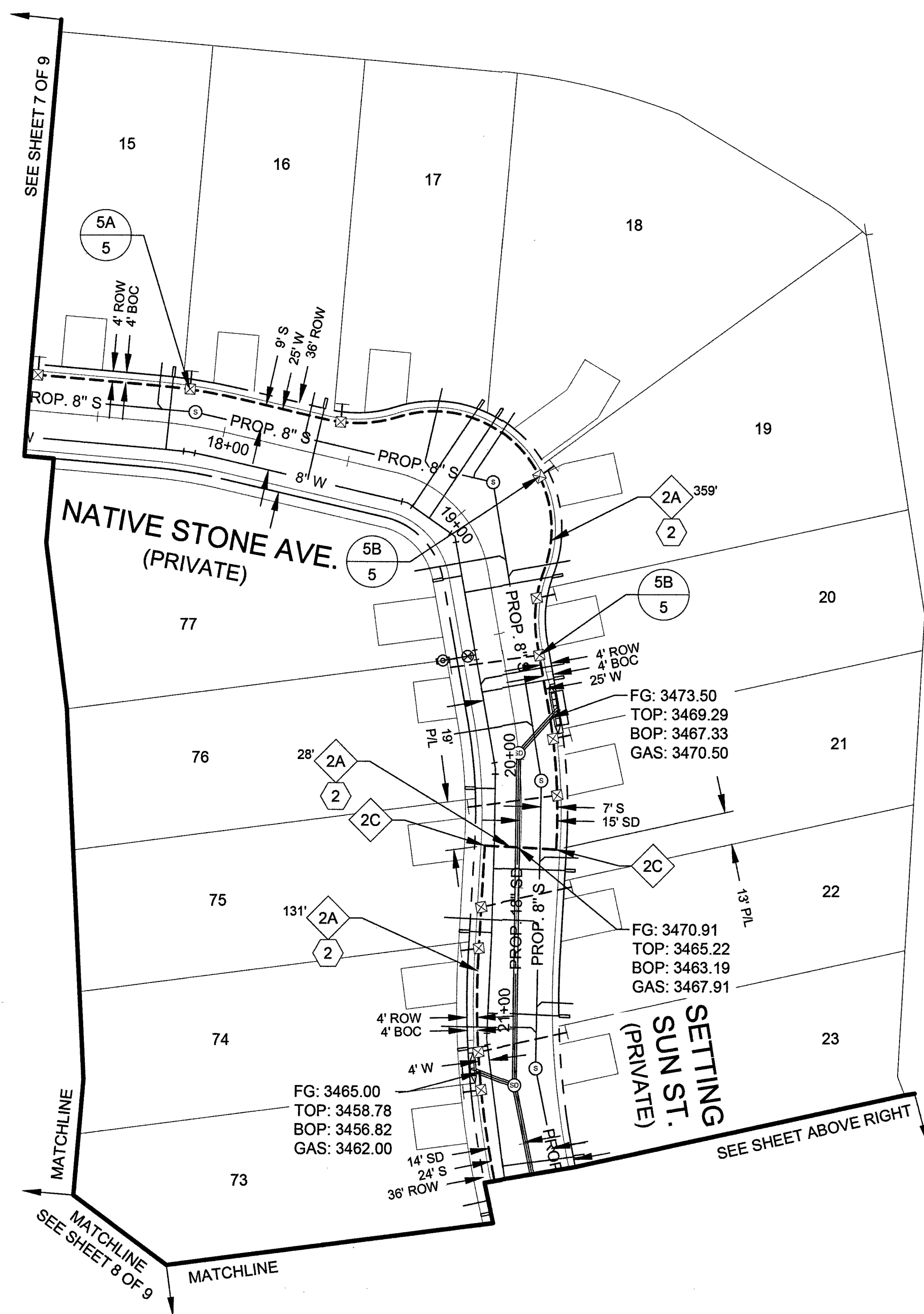
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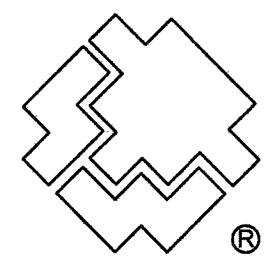
0 40
1" = 40'

CONSTRUCTION NOTES	
2	RTC 503

2" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
2A	923'	0'	100-5101	2" PE MAIN	N/A	N/A
2C	4	0	140-3067	2" PE 90 DEGREE ELBOW	N/A	N/A



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REVISIONS						D_W_VALLEY		JOB TYPE		WR NO.		ENGINEER/TECHNICIAN		JALANIA WRIGHT		PHONE: 702-365-2188	
						SYSTEM MAOP: 60		HP SERVICE ☐		3875811		ACCOUNT REP.		ANDREW CARLSON		PHONE: 702-365-2060	
						SYSTEM MOP: 55		DISTRIBUTION ☒				PROJECT CONTACT		DAVE WAGNER		PHONE: 702-258-5011	
NO.		DESCRIPTION				BY	DATE	APPVD	SHEET NO. 9 OF 9			SCALE 1" = 40'		DATE 09/03/2019			
											DWN. BY SEI		CHKD. BY JW		APPVD. BY BWJ		
PERMIT INFORMATION		ISOLATION AREA		LOCATION		ATLAS OR TILE		N/A		FEEDER ☐		RELATED WR NO.S		V24 PARCEL N			
CITY OF LAS VEGAS TAX CODE 02-0200		ISO_21_DIST_323		T20S R59E S33 M.D.M.		x561y516		SYSTEM MAOP: N/A		TRANS. BY DEF ☐		N/A					
								SYSTEM MOP: N/A		TRANS > 20% ☐							