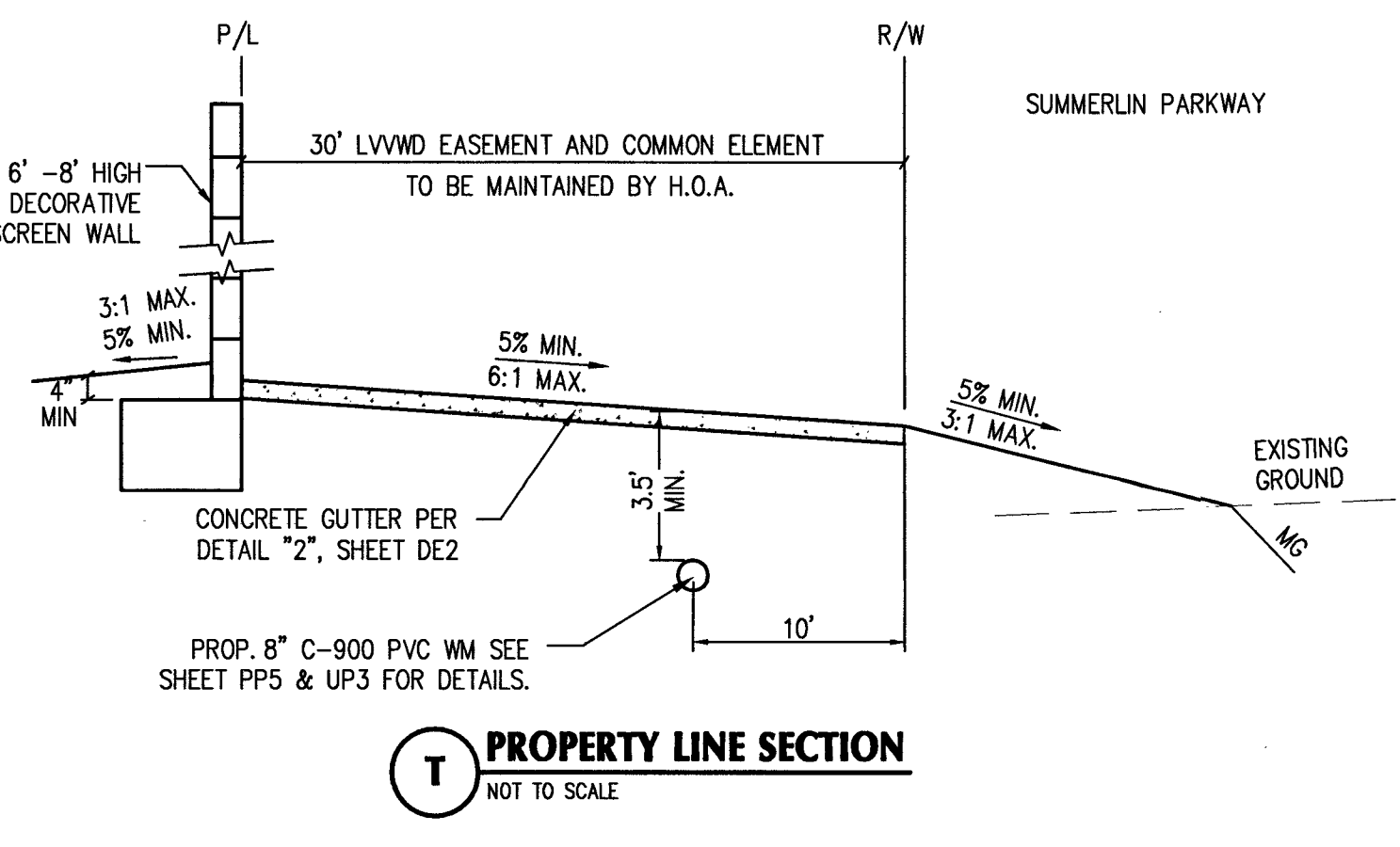
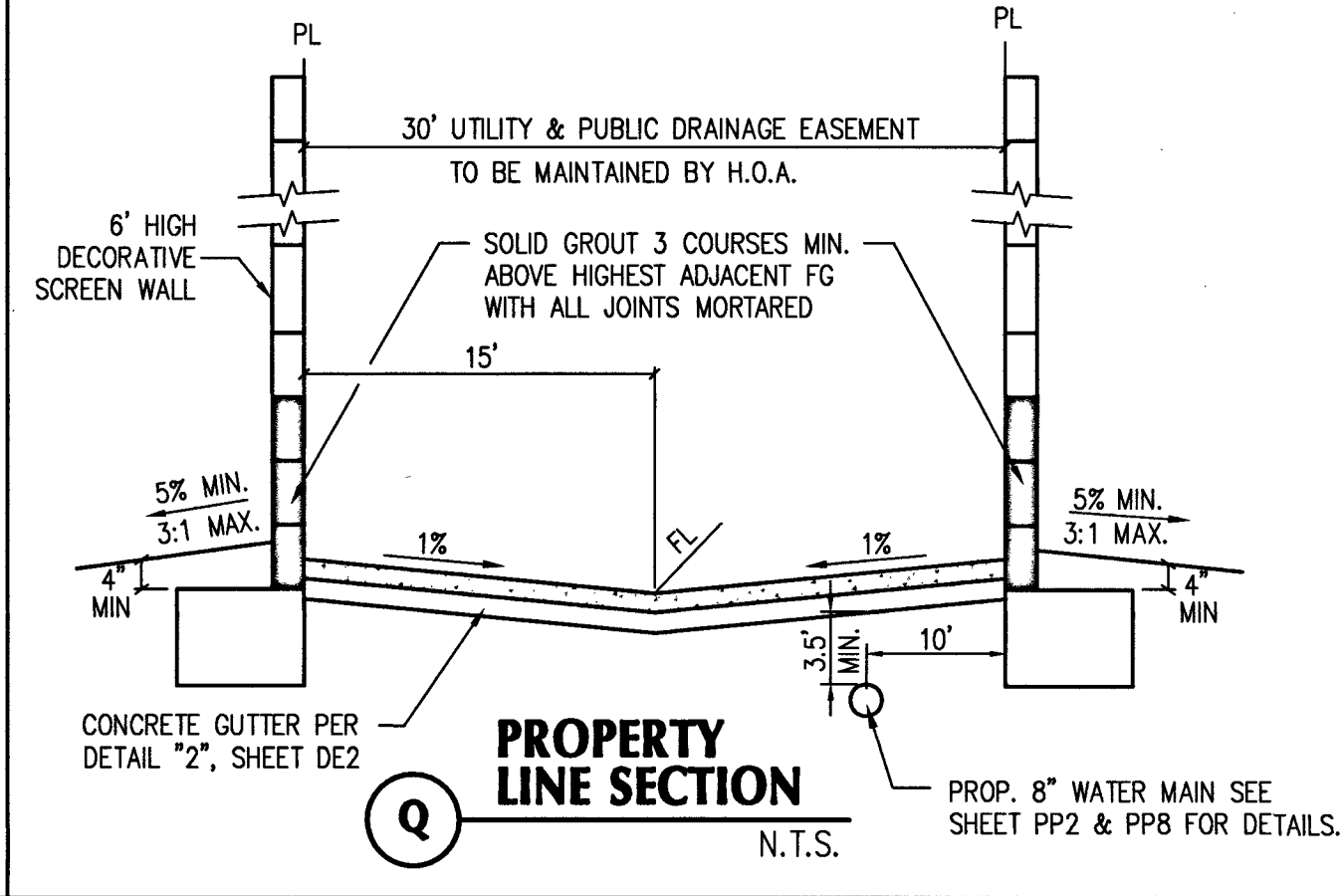
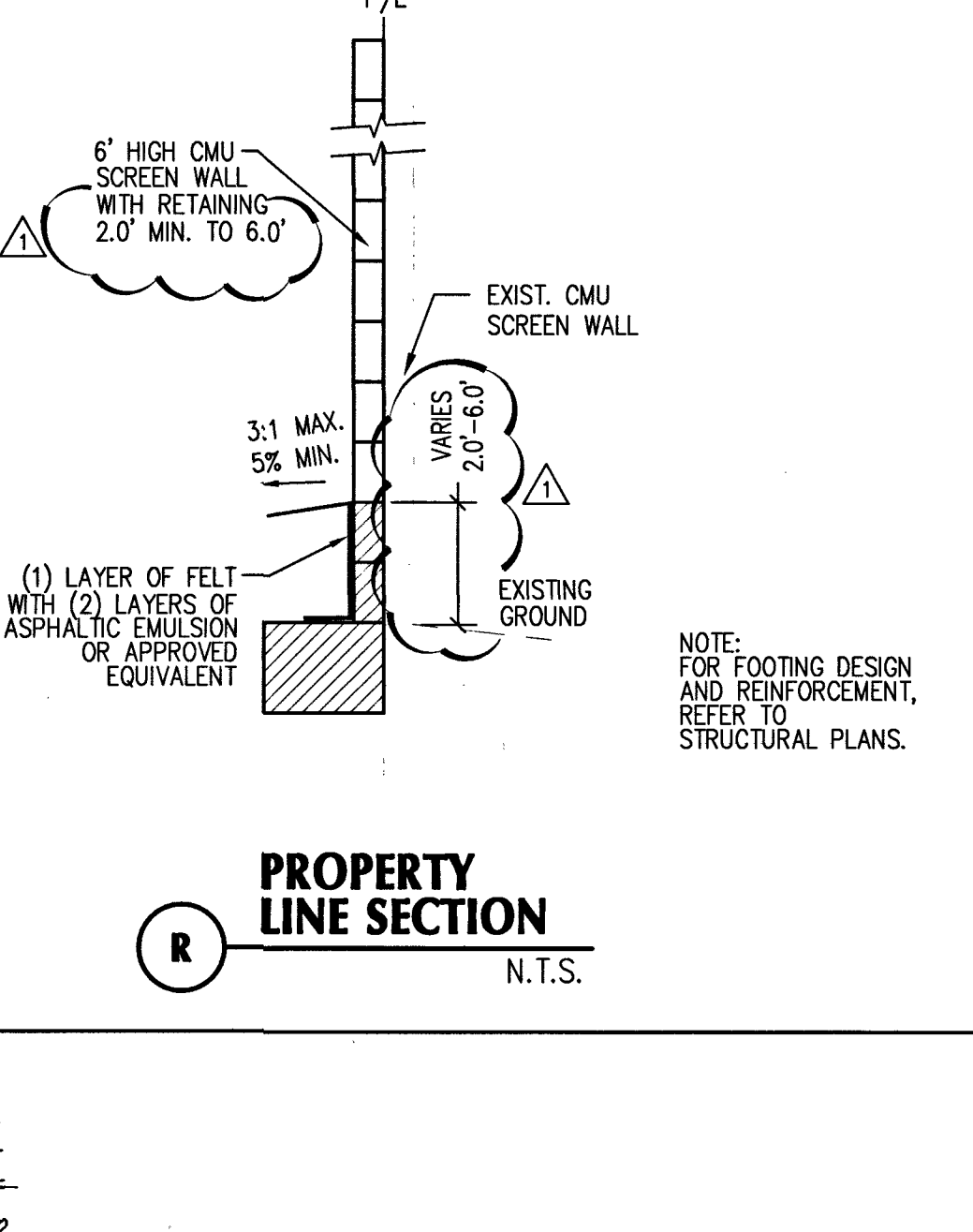
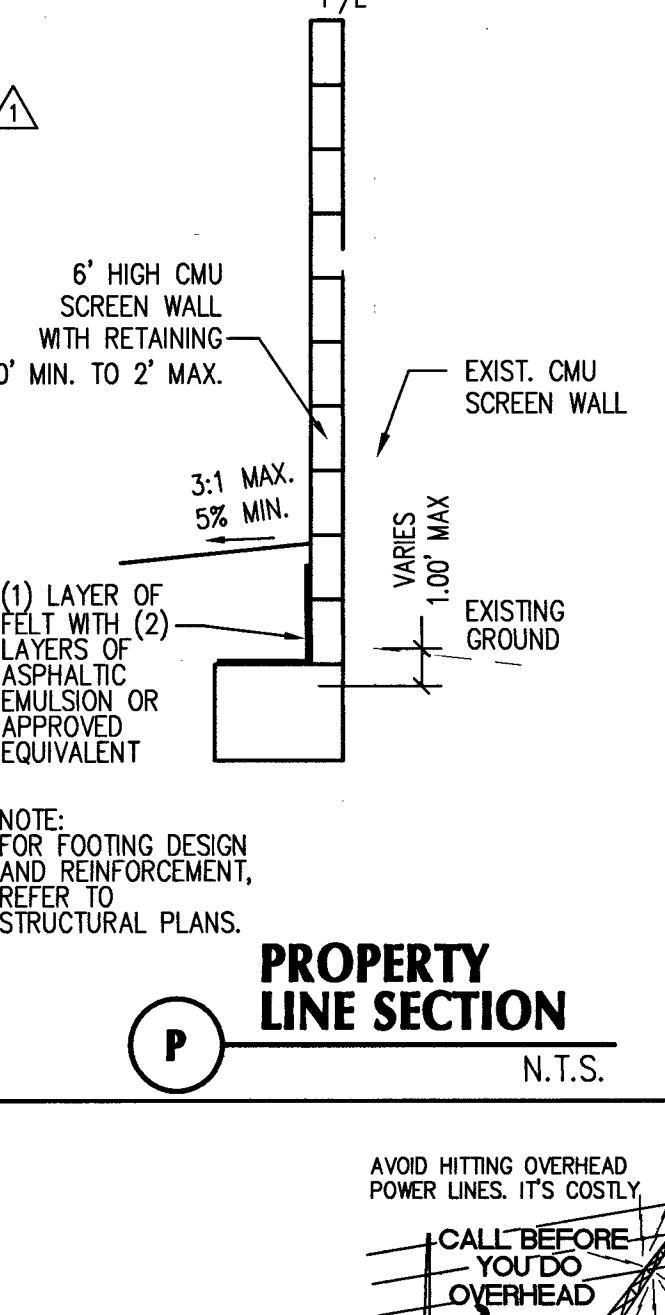
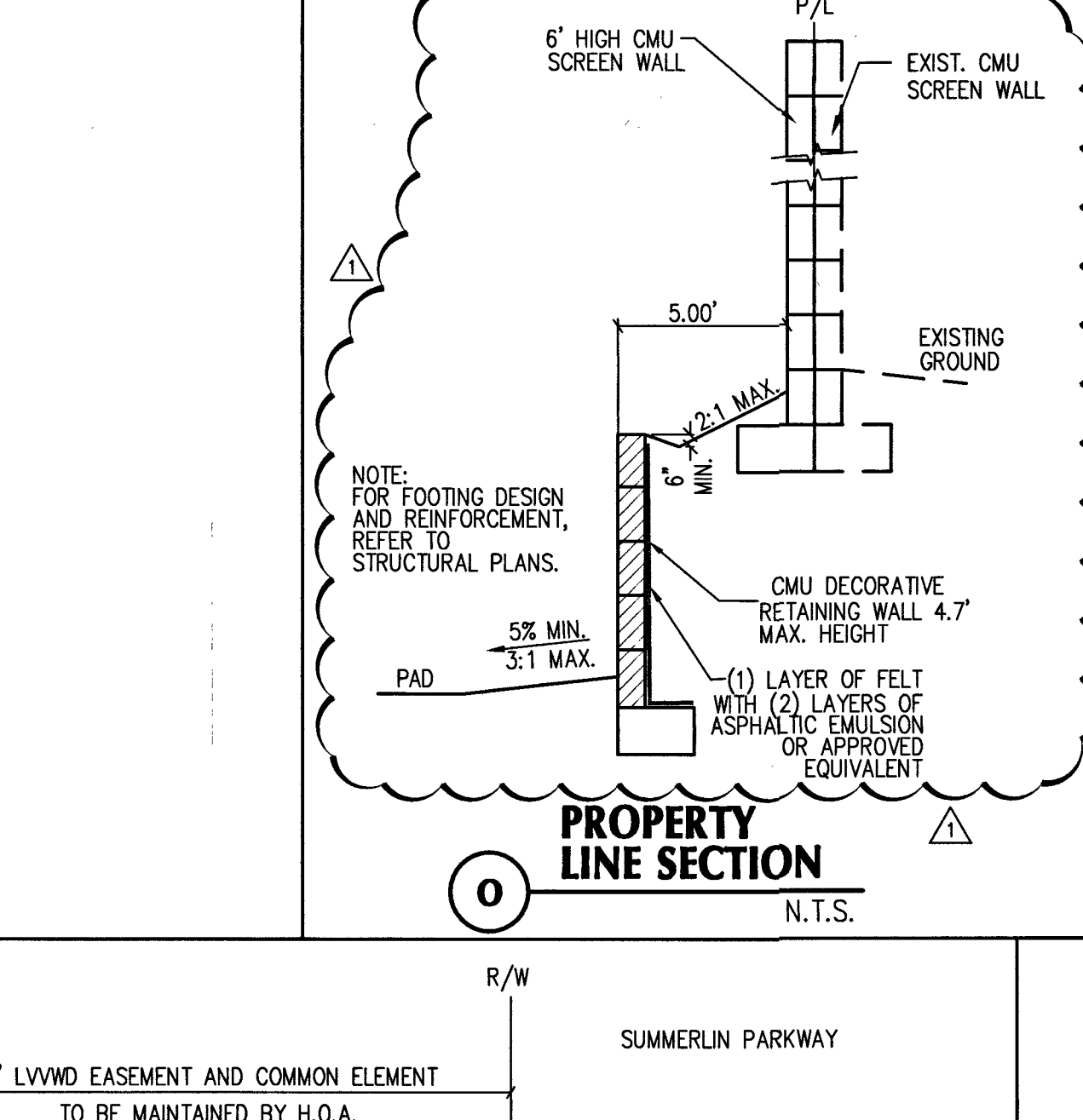
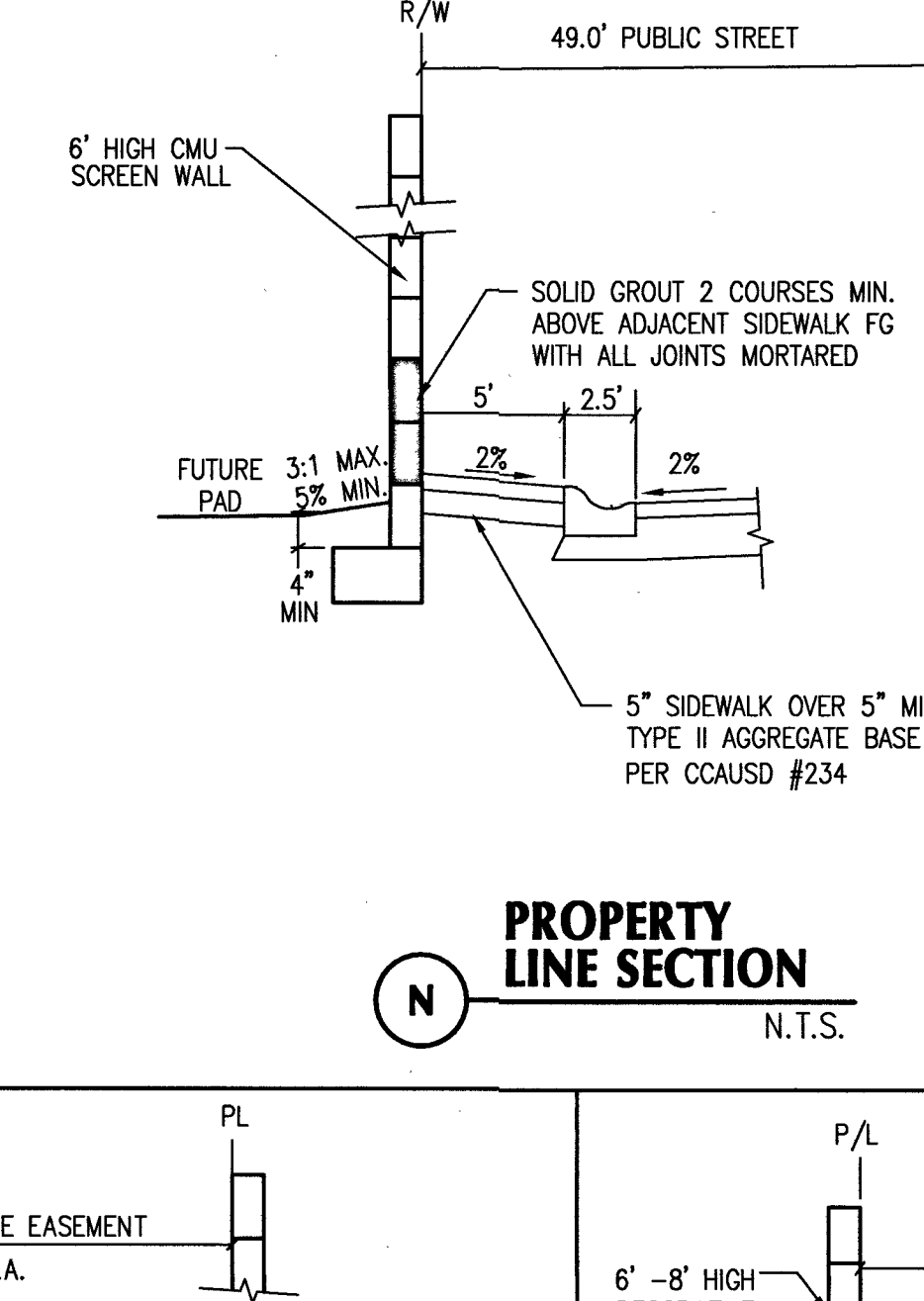
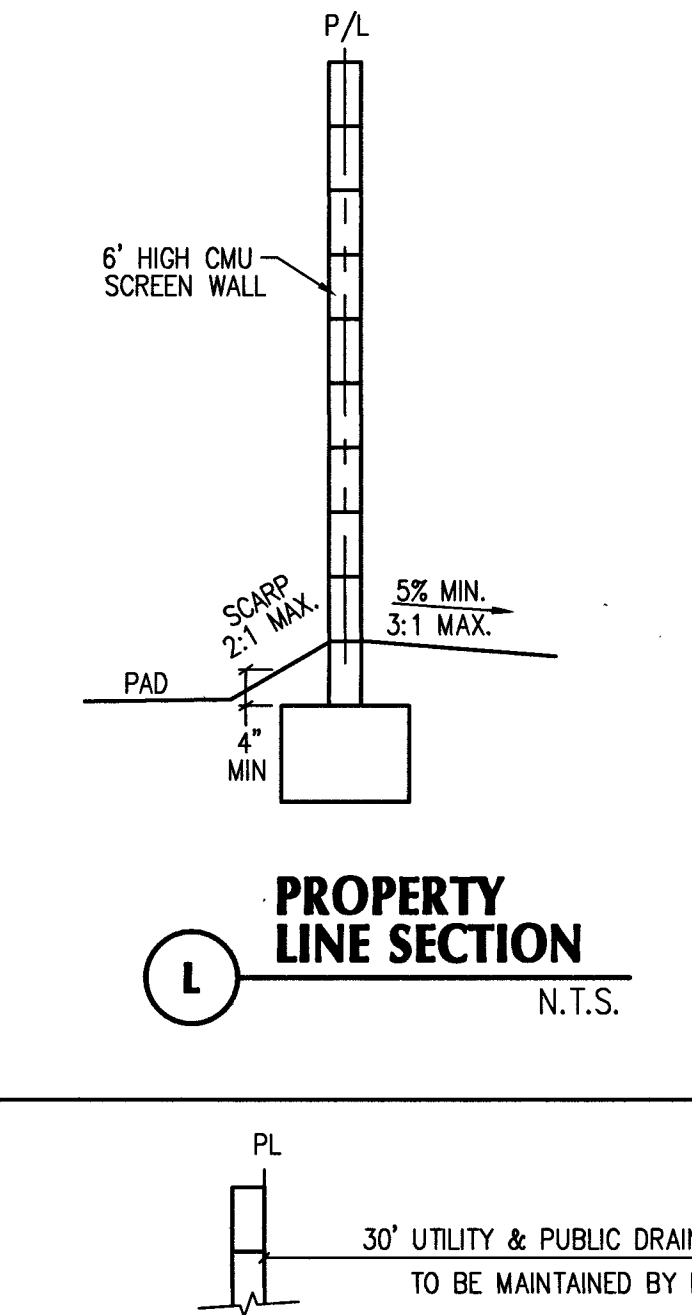
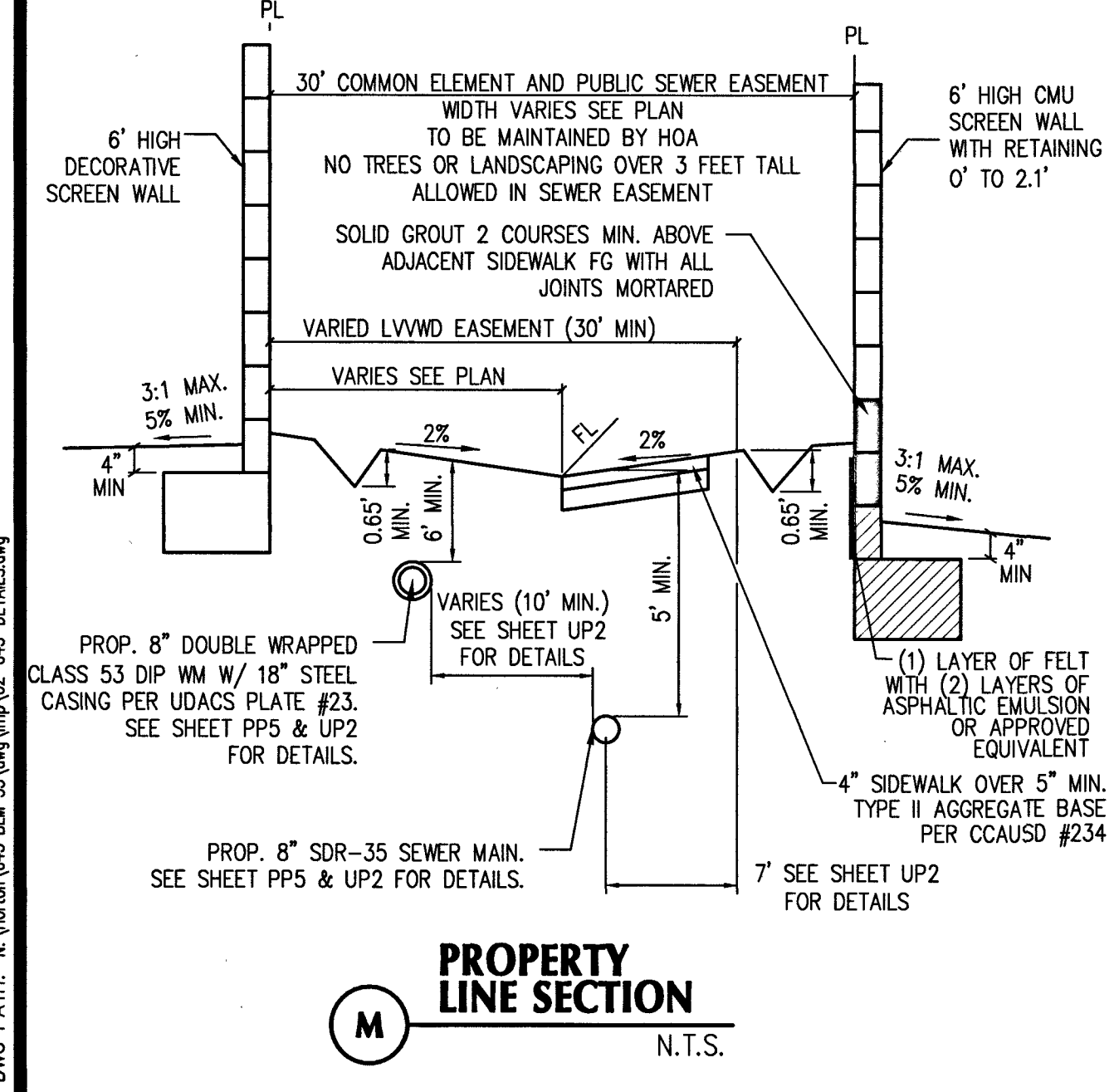
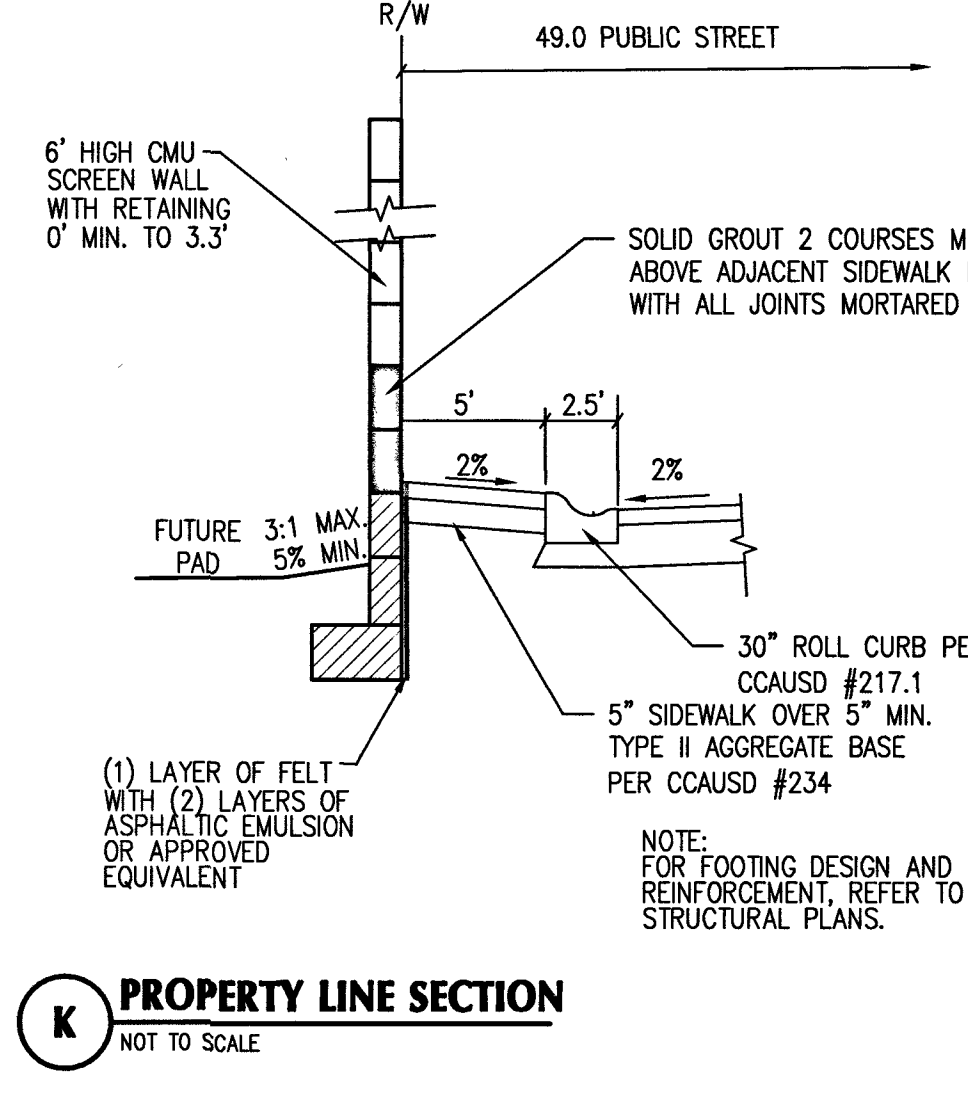
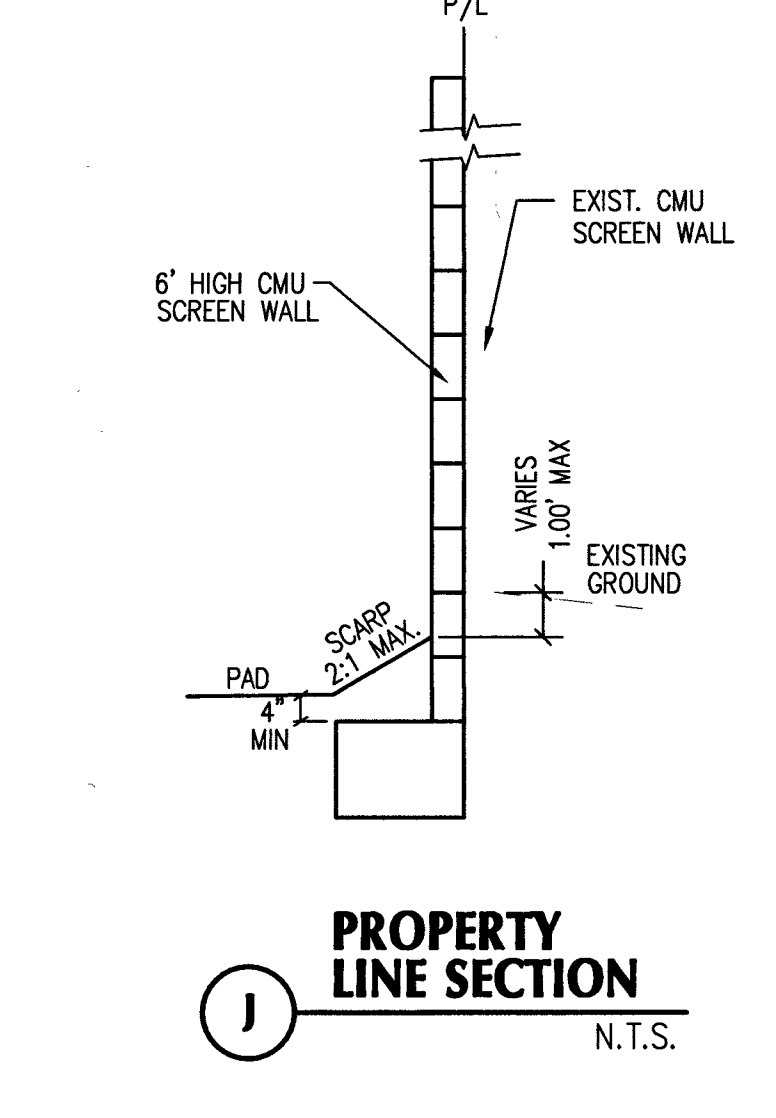
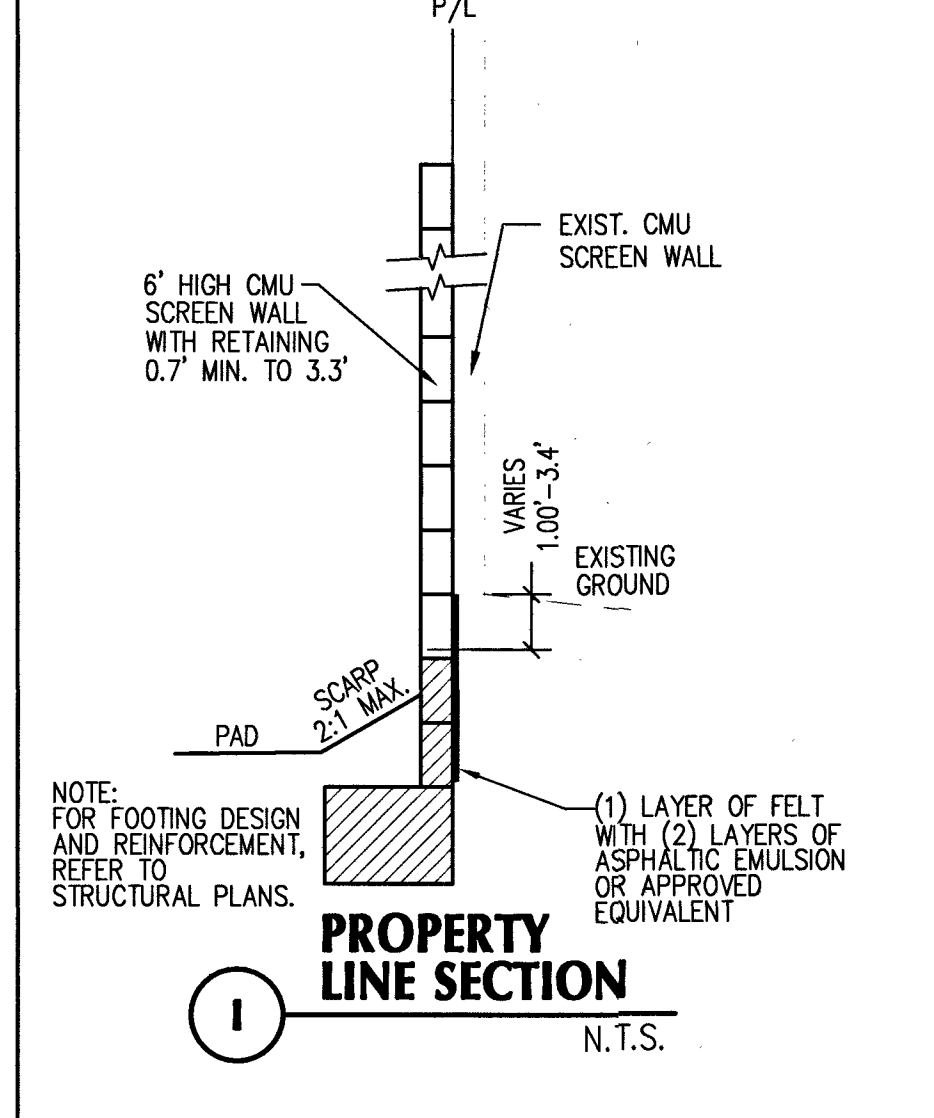
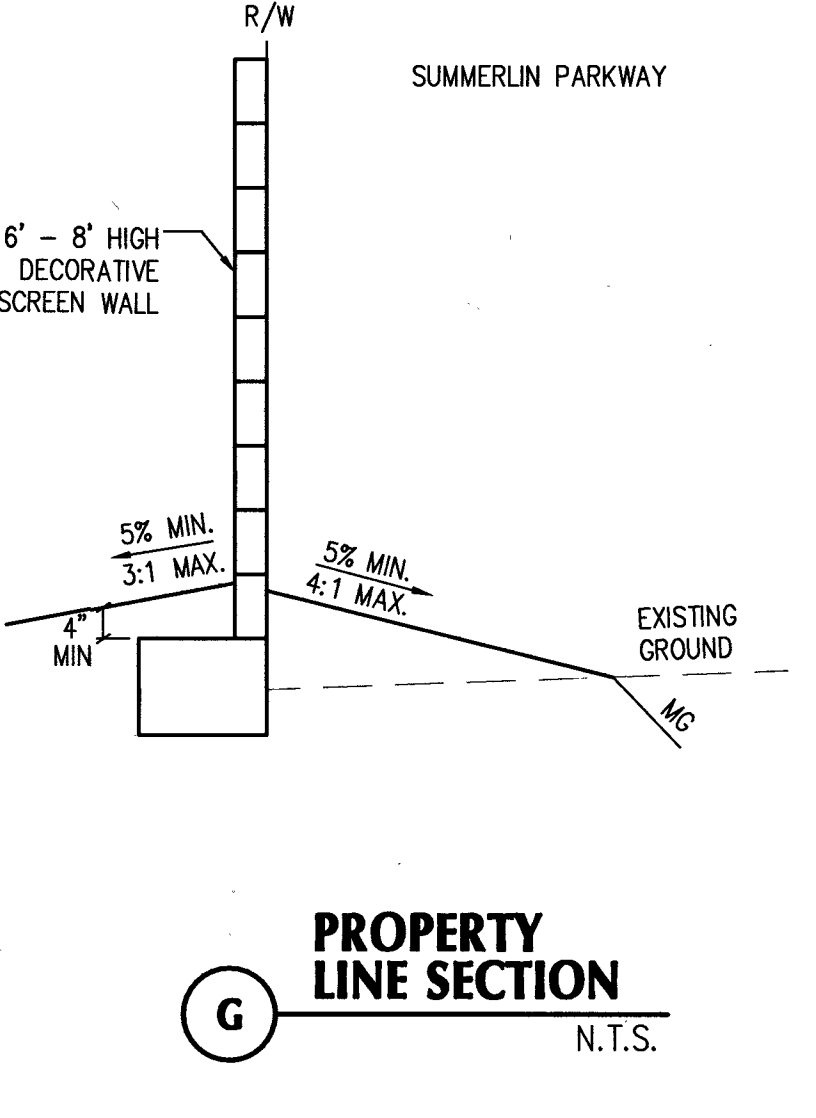
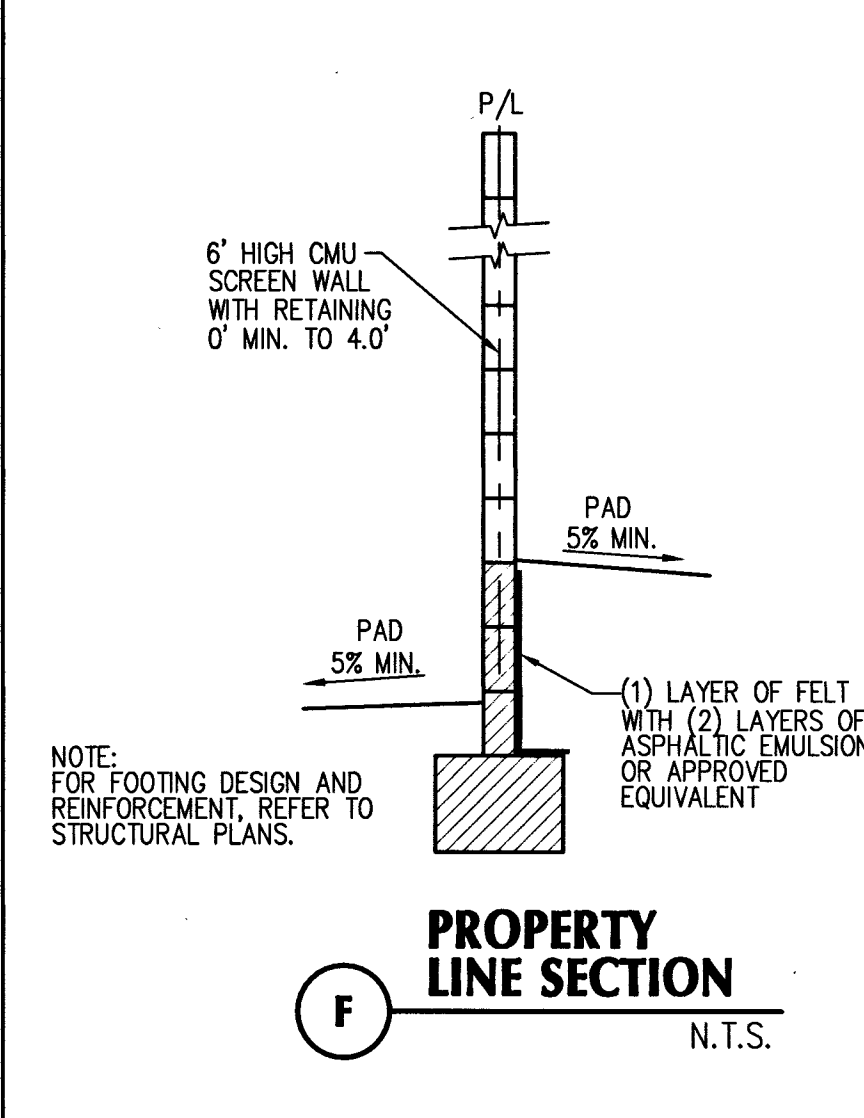
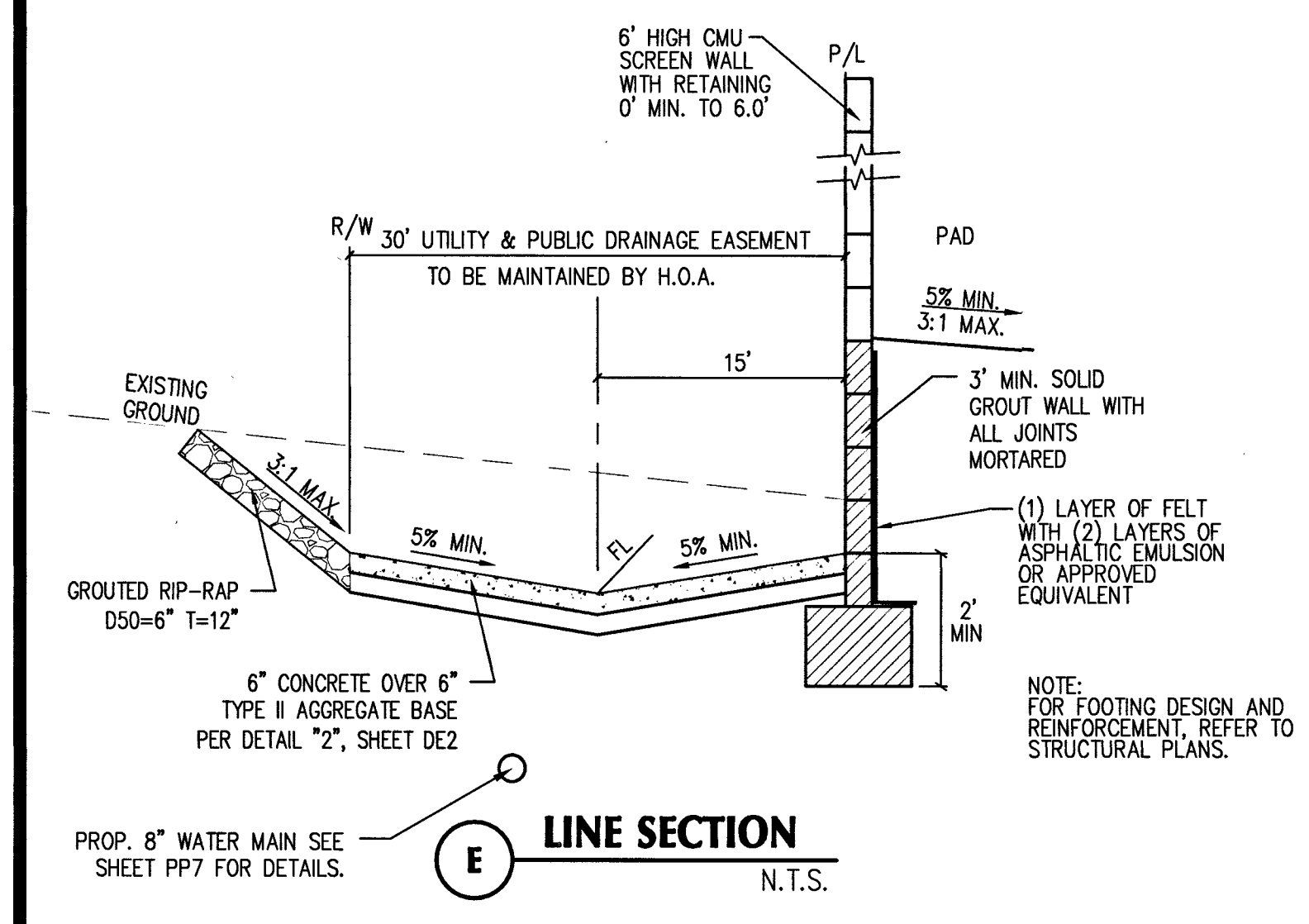
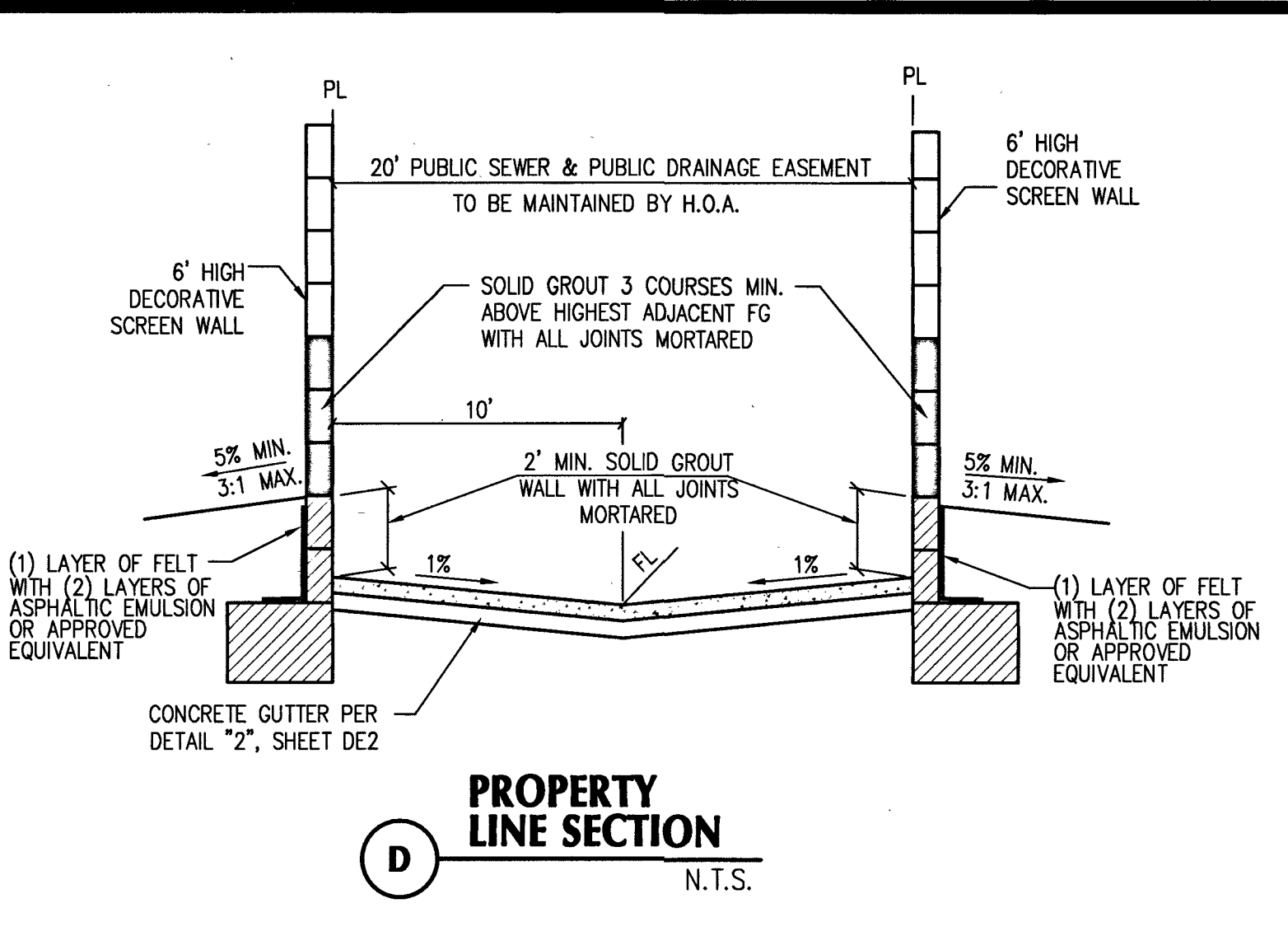
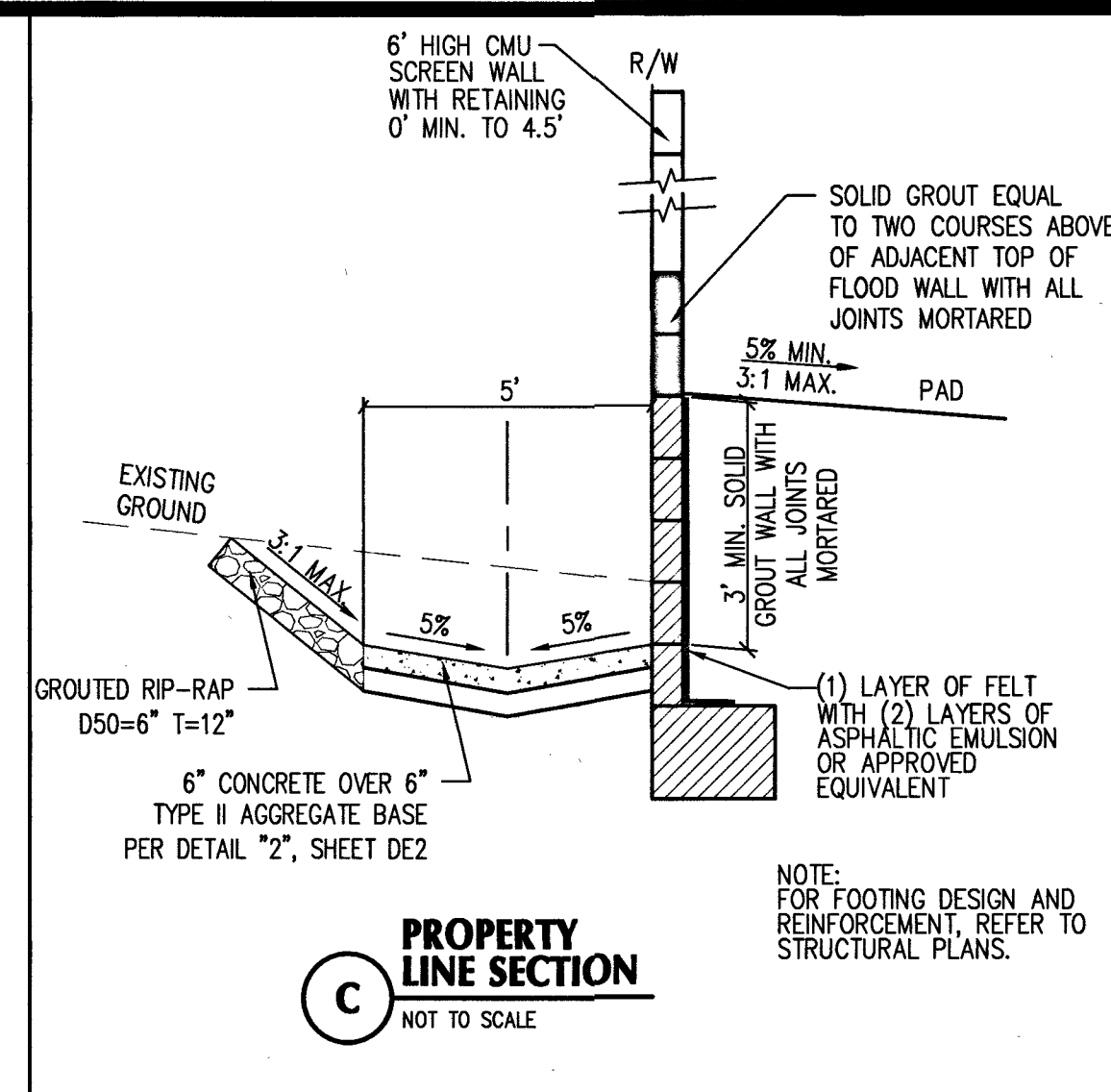
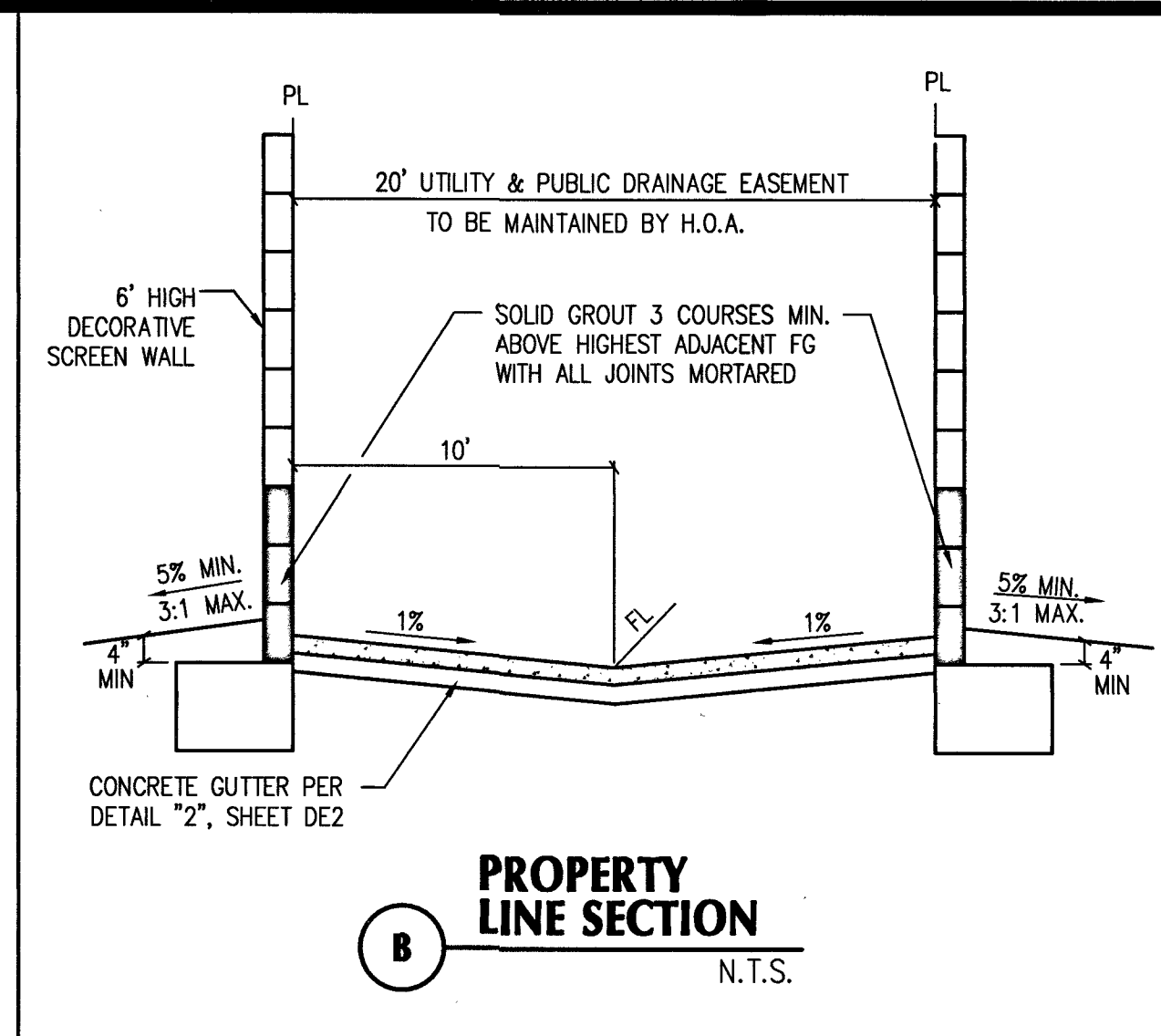
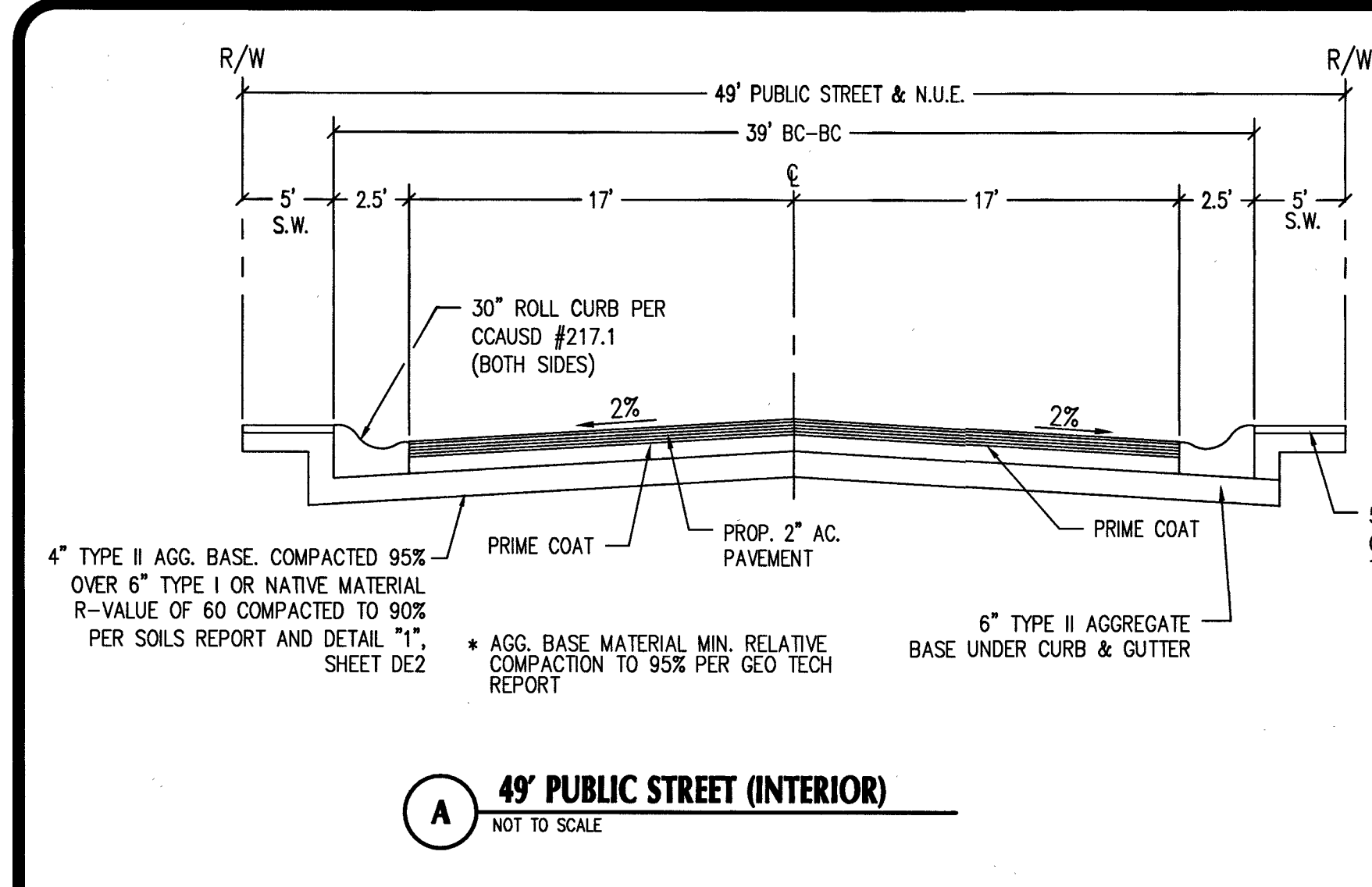




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Freeway and Arterial System of Transportation

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ADVANTAGE CIVIL DESIGN GROUP, LLP

2920 N. GREEN VALLEY PARKWAY, BLDG. 4 STE. #422

HENDERSON, NEVADA 89014

Other: 702.452.2254

Fax: 702.456.2254

Email: AM@ADVANTAGECIVIL-LLP.COM

CONSULTING

GRADING DETAILS 1

BLM 33

BY D.R. HORTON

NO.	DATE	DESCRIPTION
1	5/2/19	REVISED RETAINING WALLS, REVISED WATER MAIN DUE TO CONFLICTS, UPDATE STATIONS FOR WATERMAIN ETTINGS, ADDED NOTE TO REMOVE EX. SEWER SUB. ADDED DRY UTILITY PLANS.
2	5/2/19	
3	5/2/19	
4	5/2/19	
5	5/2/19	
6	5/2/19	
7	5/2/19	
8	5/2/19	
9	5/2/19	
10	5/2/19	

JOB NUMBER: 02-043

DRAWN BY: CW

DESIGNED BY: CW

CHECKED BY: BGD

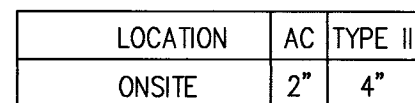
DATE: 12/2018

DE1

3

24

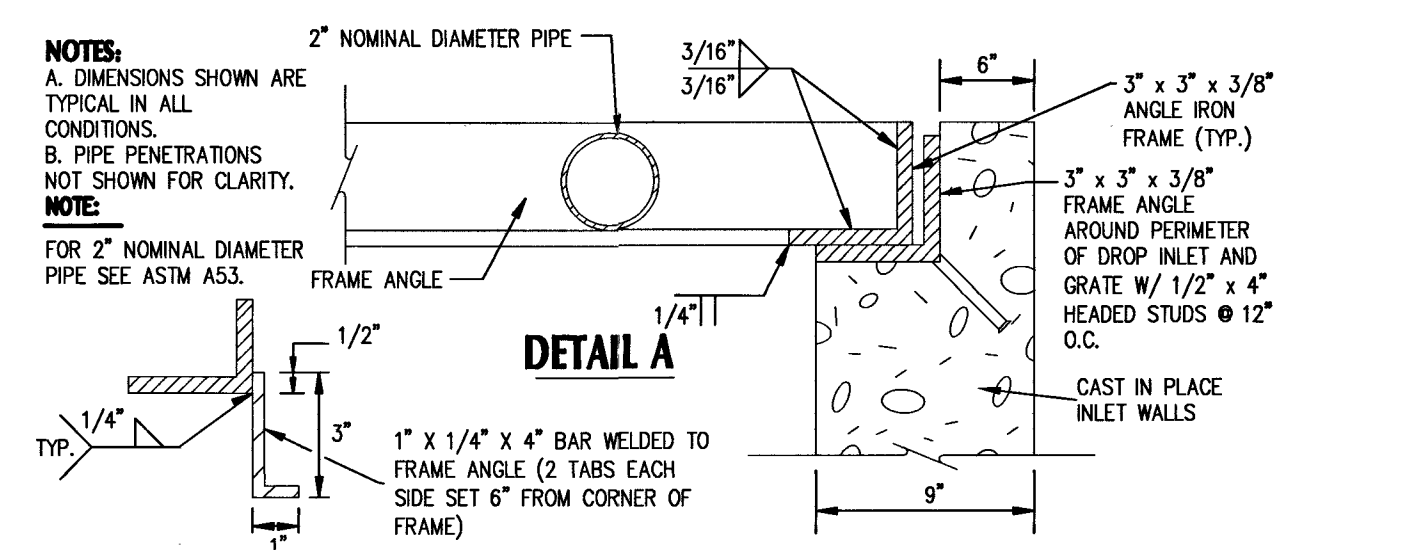
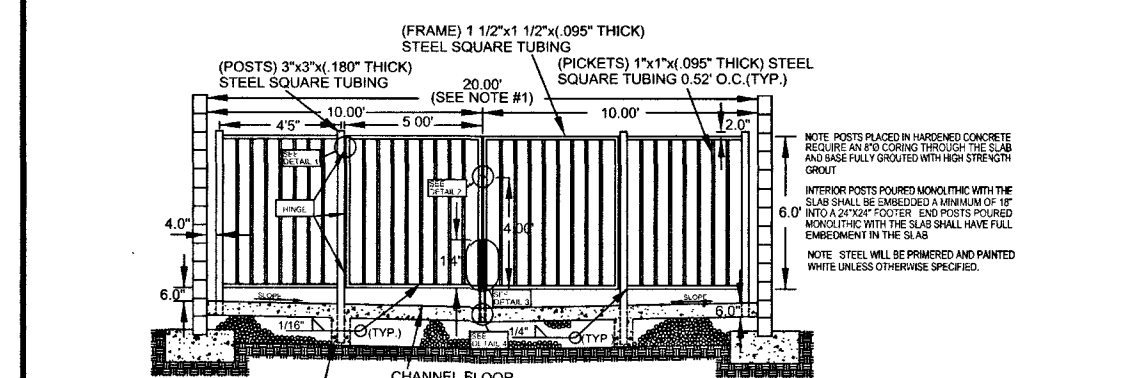
PROJ#: 155331A QS:138-28-SE



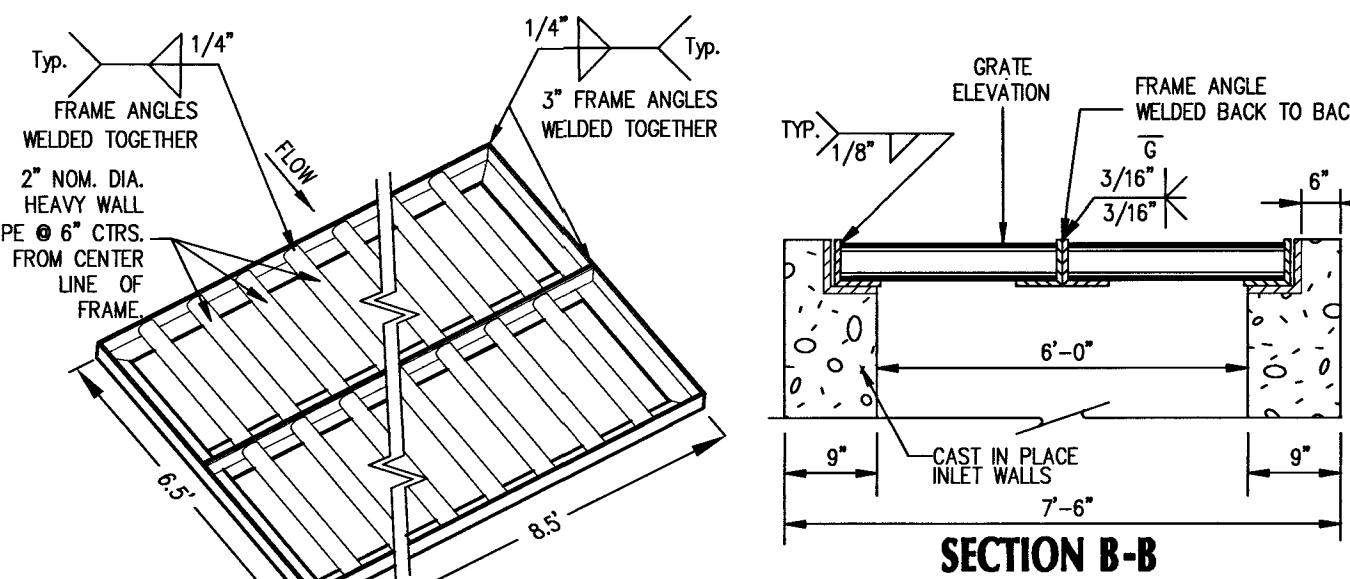
A cross-sectional diagram of a road base structure. The diagram shows several layers from top to bottom: a top layer with a width dimension of "VARIES 5'-30'" and a length dimension of "VARIES 2.5'-15' PER PLAN"; a layer with "4 BARS EACH WAY @ 12" O.C. (TYP.)"; a layer with a "3" C.R. TYP." dimension; a layer with a "3" C.R. TYP." dimension; a layer of "6" TYPE II AGGREGATE BASE COMPACTED TO AT LEAST 90% OF THE MAXIMUM LABORATORY DRY DENSITY (ASTM D1577)"; and a bottom layer of "SCARIFY AND RECOMPACTED 12" NATURE MATERIAL TO 95% (SEE SOILS REPORT)".

Diagram illustrating the proposed road construction layers:

- Top Layer:** GROUTED OR UNGROUTED RIP-RAP D50= AS SHOWN ON PLANS, THICKNESS= AS SHOWN ON PLANS
- Middle Layer:** 12" BEDDING CONSISTING OF TYPE II AGGREGATE BASE COMPACTED TO AT LEAST 90% OF THE MAXIMUM LABORATORY DRY DENSITY (ASTM D1577)
- Bottom Layer:** 12" SCARIFY AND RECOMPACTED TO MEET SOILS REPORT RECOMMENDATION

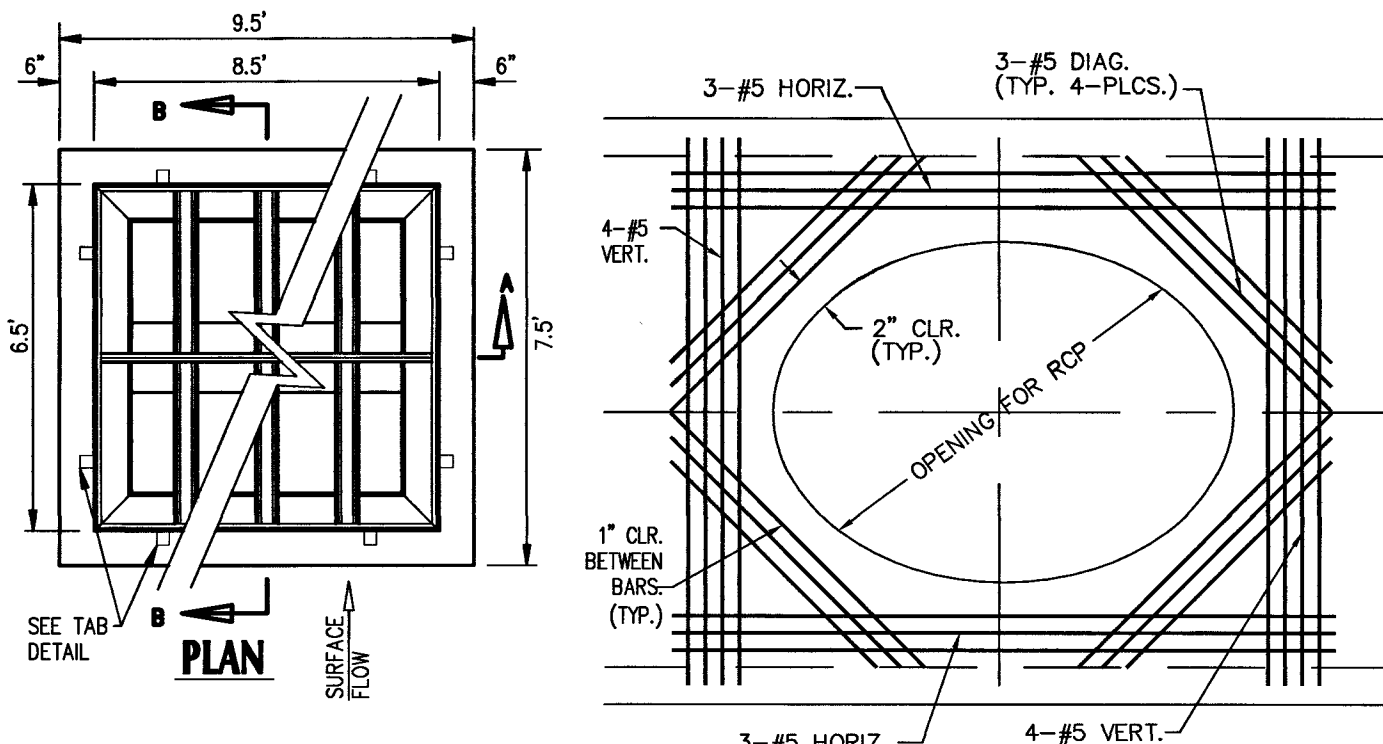
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TAB DETAIL

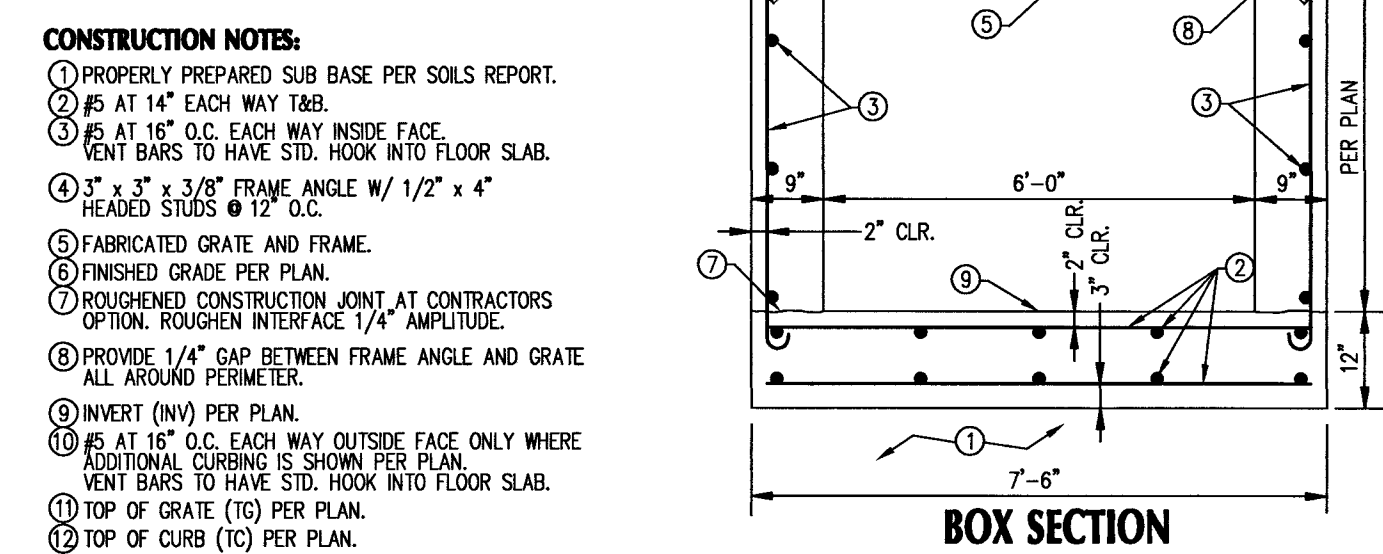


FABRICATED GRATE DETAIL

4 8'x6' GRATE DETAIL
NOT TO SCALE



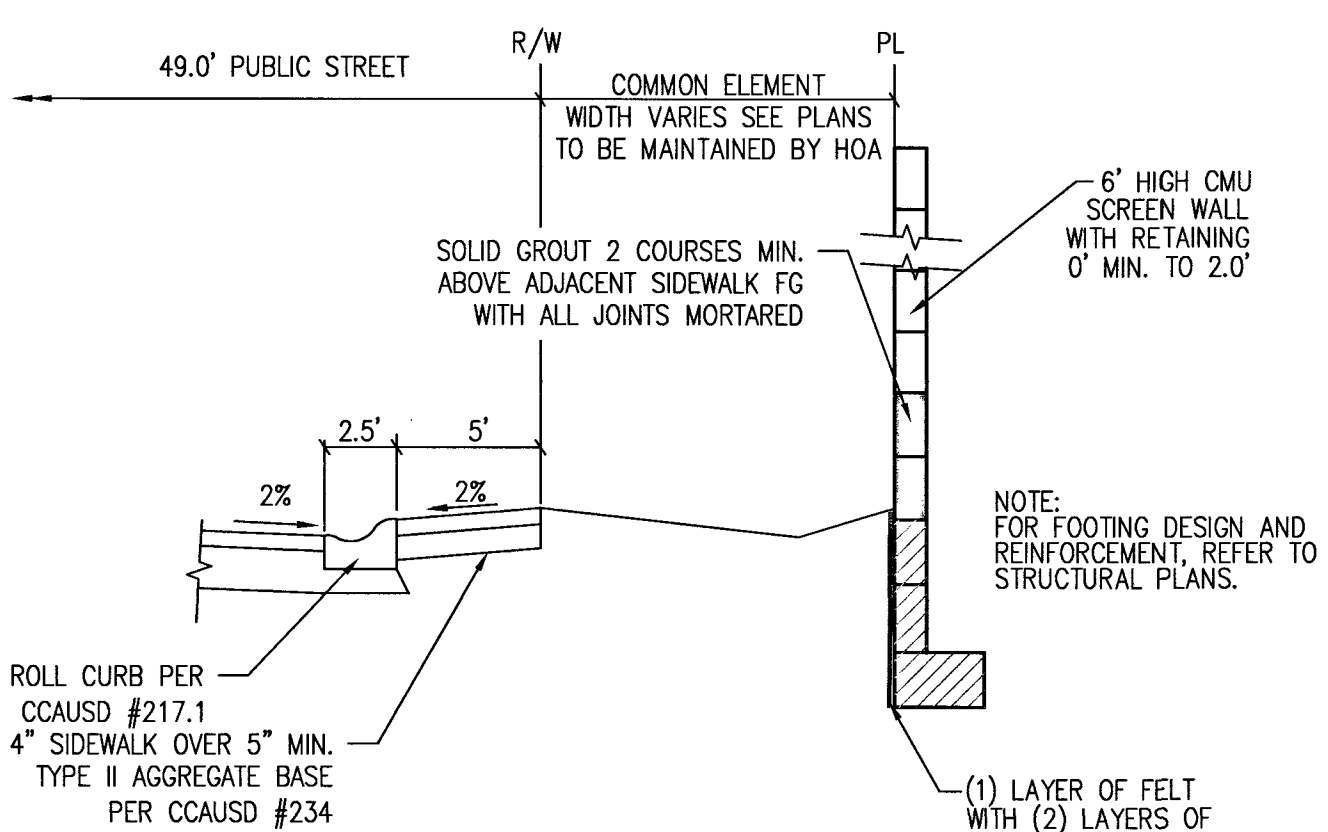
RCP CONNECTION REINFORCEMENT
NOT TO SCALE



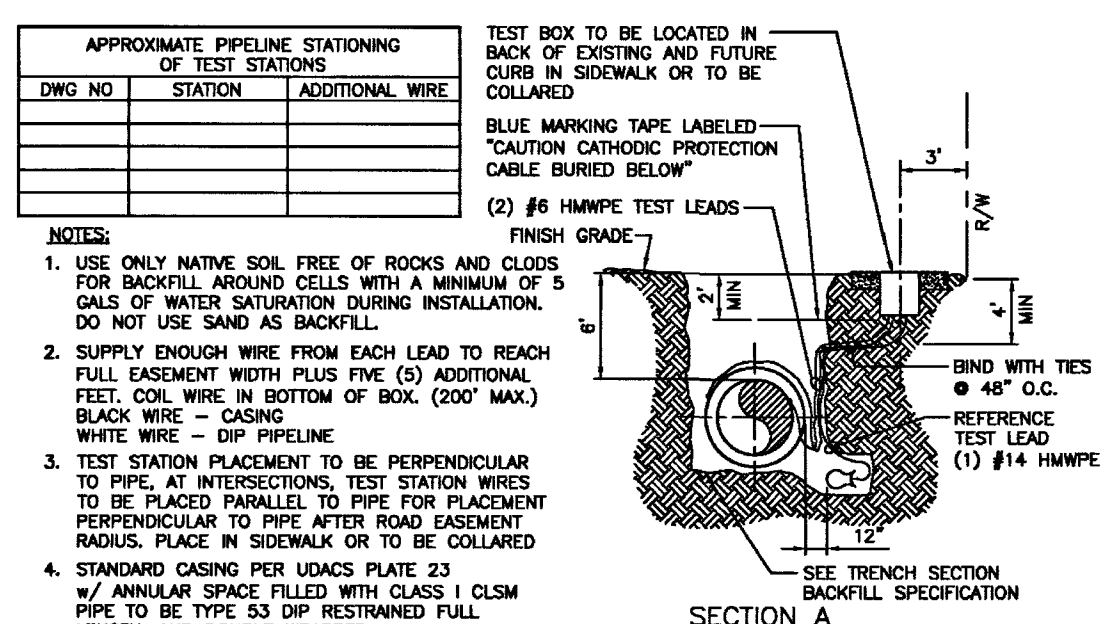
BOX SECTION

CONSTRUCTION NOTES:

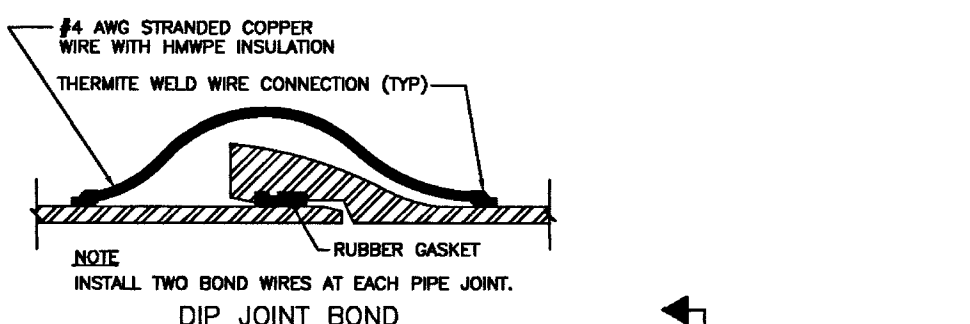
- PROPERLY PREPARE SUB BASE PER SOILS REPORT.
- 1/5" 1" x 1" MIN. W/ 1/2" T&G.
- 1/5" 1" x 1" O.C. EACH WAY INSIDE FACE.
VENT BASES TO HAVE STD. HOOD INTO FLOOR SLAB.
- 3/4" x 3/4" x 3/8" FRAME, ANGLE W/ 1/2" x 1/2" x 1/2" HEADS, 1/4" x 1/4" x 1/4" T&G.
- FABRICATED GRADE AND FRAME.
- FINISHED GRADE PER PLAN.
- POUCHED/CHISEL CONSTRUCTION JOINT AT CONTRACTORS OPTION. ROUGHEN INTERFACE 1/4" ANGLE.
- PROVIDE 1/4" GAP BETWEEN FRAME ANGLE AND GREATE ALL ADJACENT PERIMETERS.
- INVERT (IN) PER PLAN.
- 1/5" 1" x 1" O.C. EACH WAY OUTSIDE FACE ONLY WHERE ALTERED CONDITION IS SHOWN PER PLAN.
VENT BASES TO HAVE STD. HOOD INTO FLOOR SLAB.
- TOP OF GRADE (TO) PER PLAN.
- TOP OF CURB (CO) PER PLAN.



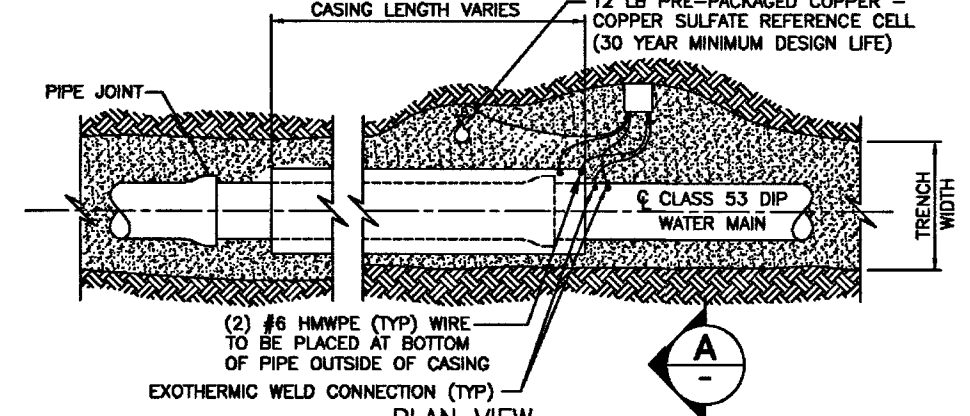
U **PROPERTY LINE SECTION**
NOT TO SCALE



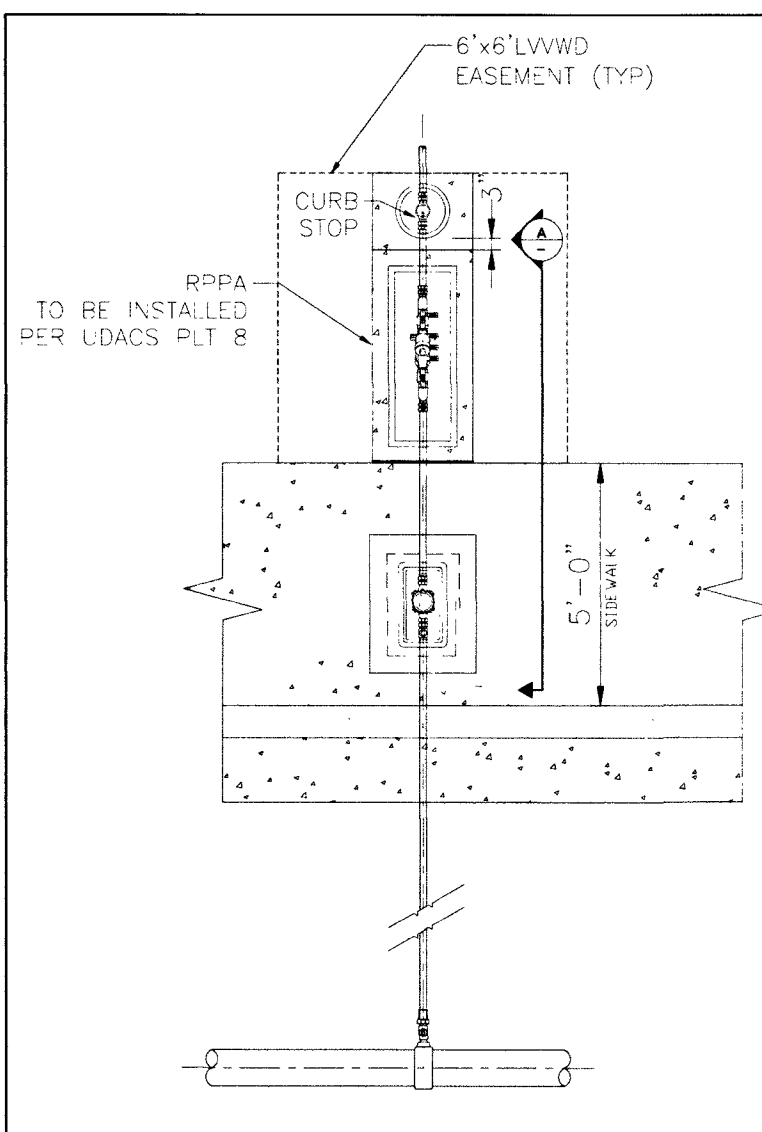
SECTION A



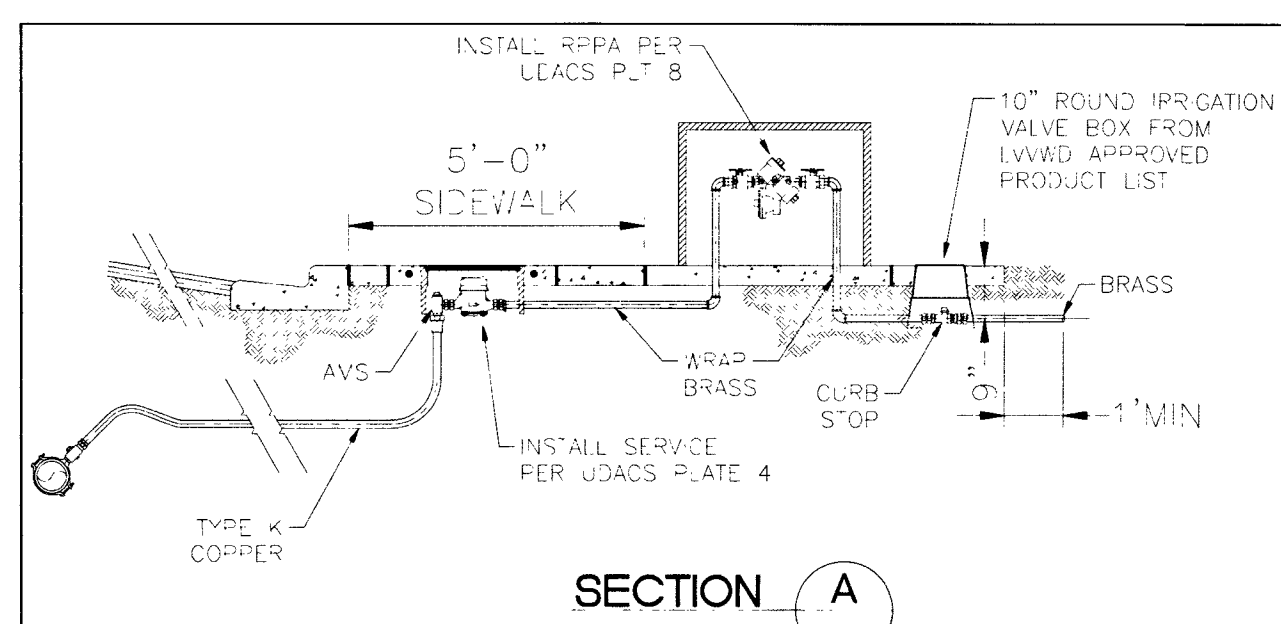
12 LB. DRY PACKAGED CORNED



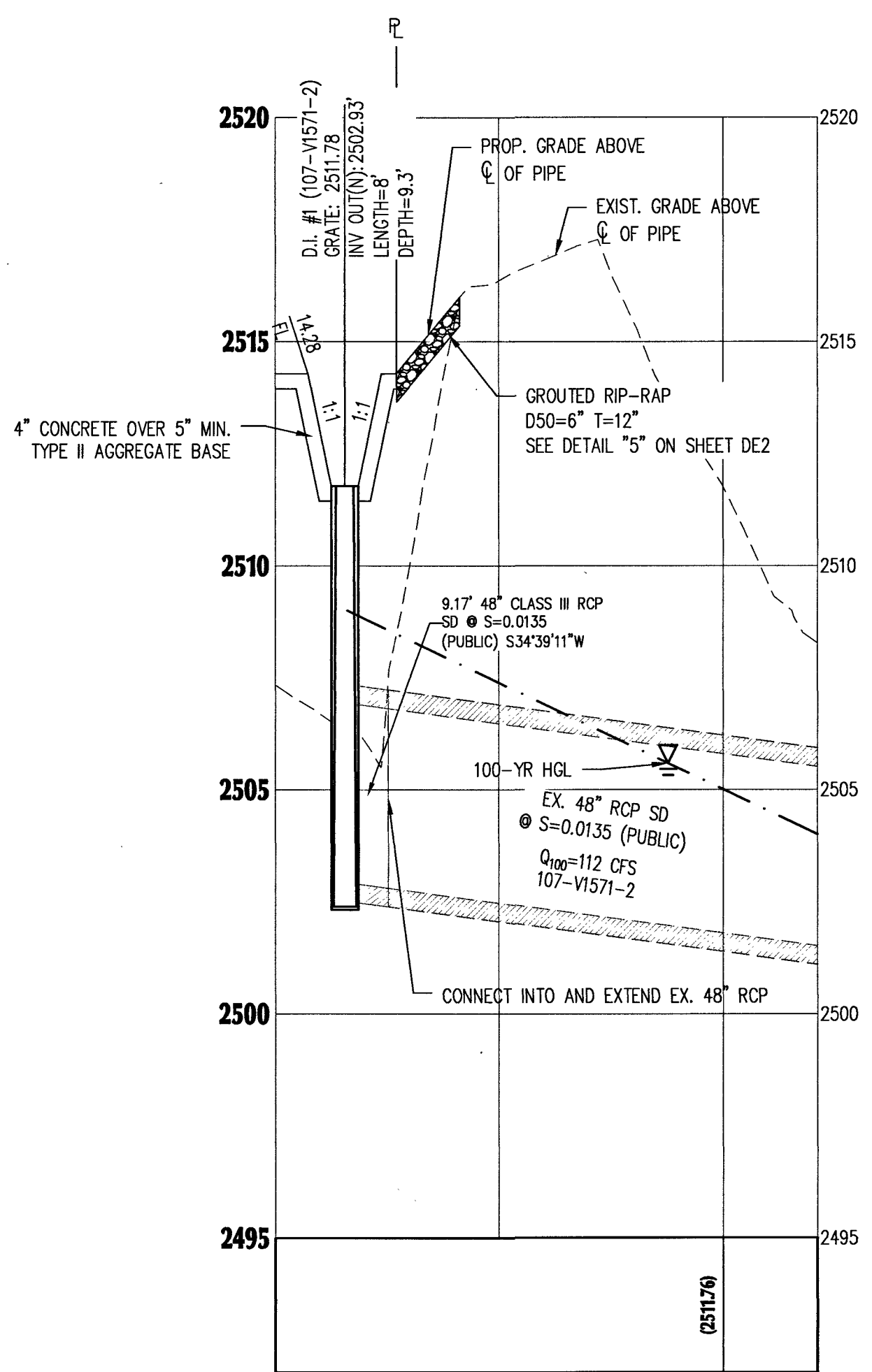
EASEMENT / COMMON ELEMENT DETAIL
TYPE "C" TEST STATION WITHOUT ANODES
NOT TO SCALE



7 IRRIGATION DETAIL

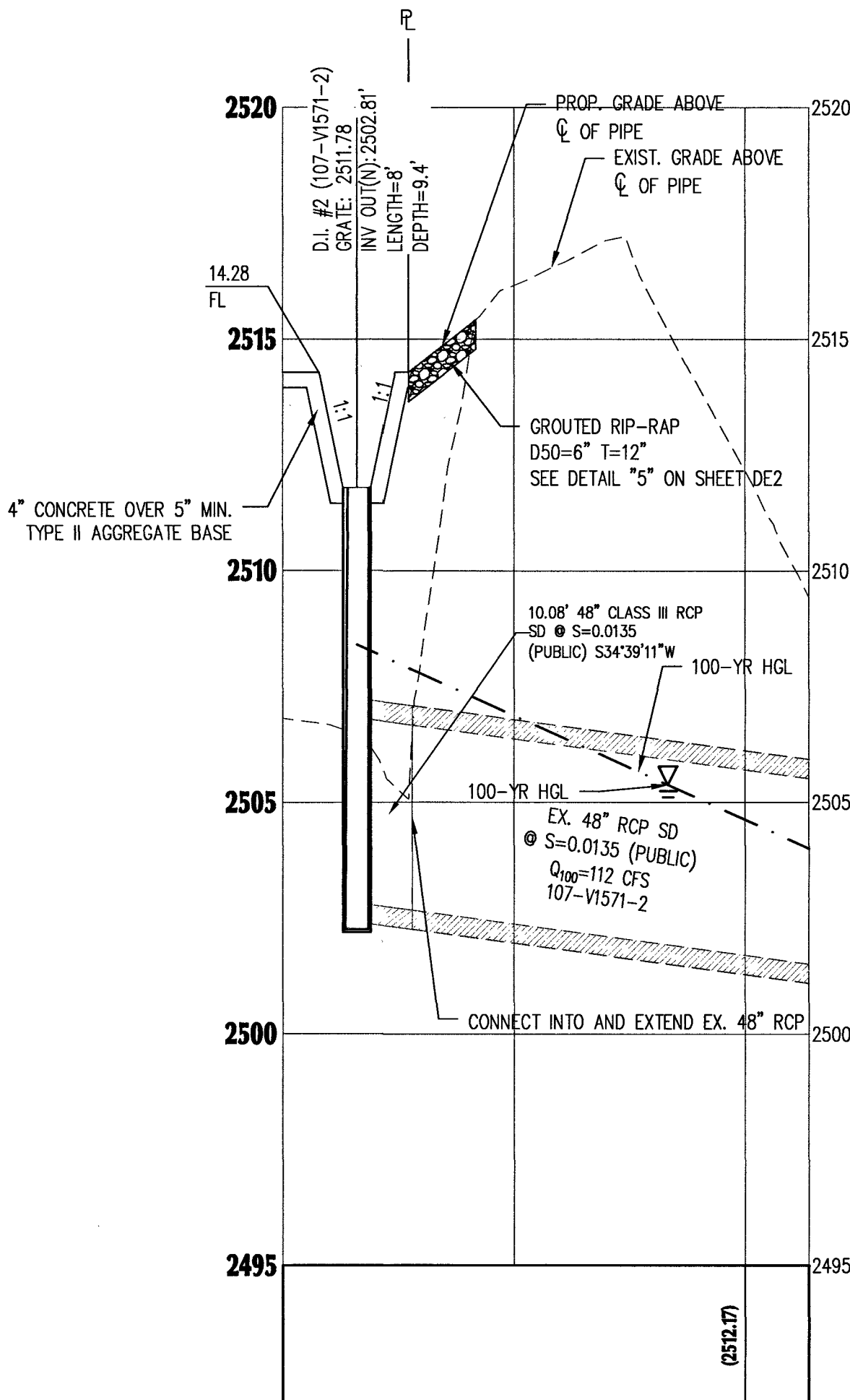


SECTION A



DROP INLET #1-PROFILE VIEW

HORIZONTAL : $1''=30'$
VERTICAL: $1''=3'$



DROP INLET #2-PROFILE VIEW

HORIZONTAL : 1"=30'
VERTICAL: 1"=3'

APPROVED FOR CONSTRUCTION

Janne Oron

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931 DATE: 02-Dec-19
LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

L18-02380

107V5099

GRADING DETAILS 2

BLM 33

BY D.R. HORTON

[illegible]

DE2

24

PROJ#:135931A QS:130-28-SE

WESTCLIFF HEIGHTS UNIT NO.1
SUBDIVISION (R-1)

STORMWATER MANAGEMENT NOTES:

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY BE DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY AS A RESULT OF CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS BEEN TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NV100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NV100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHINGS: 200,000 METERS
FALSE EASTINGS: 100,000 METERS
STANDARD PARALLEL SCALE: 1:0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

FAST LAS VEGAS VERTICAL CONTROL POINT "OLYD 2864" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

EARTHWORK VOLUMES:

RAW CUT..... 29,528 CY
RAW FILL..... 48,607 CY
PRELIMINARY RAW NET..... 19,079 CY IMPORT
TOTAL SITE AREA..... 15.6 ACRES
THIS OPINION OF THE OUT AND FILL QUANTITIES IS PROVIDED AS REQUIRED BY CITY OF HENDERSON REQUIREMENTS. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES.

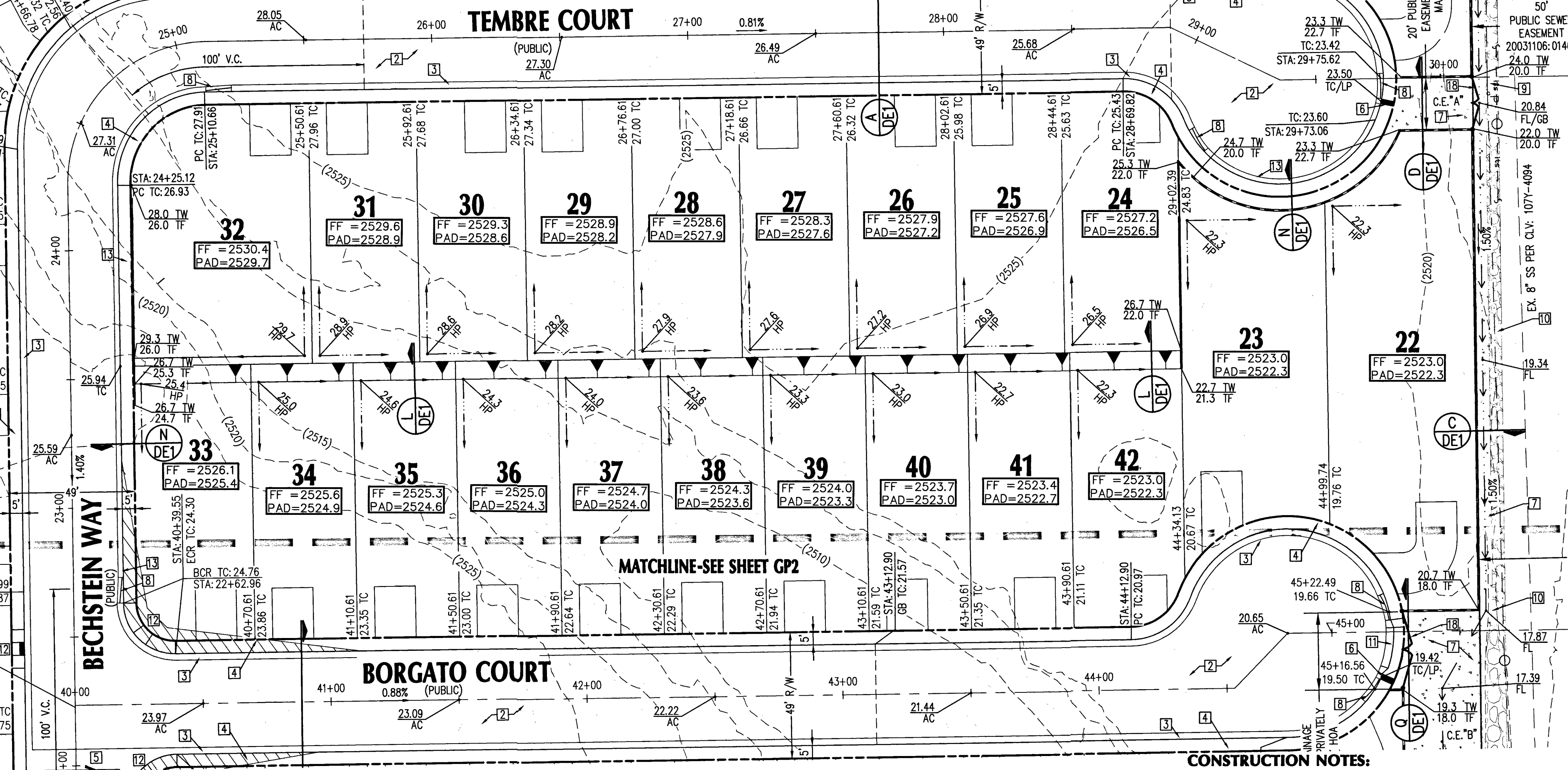
NOTE:

ADVANTAGE CIVIL DESIGN GROUP 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 BOTH THE HORIZONTAL AND VERTICAL LOCATION 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.

GENERAL NOTES

1. SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
2. CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
3. ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY.
FOR SOILS INFORMATION, REFERENCE SOILS STUDY
BY: ANGLE ENGINEERING
PROJECT NUMBER: 37031-1 DATED: 2/15/18
4. CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION, REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
5. CONSTRUCT RETAINING WALL, FOOTING ELEVATION AND TOP OF RETAINING WALL ELEVATION PER PLAN.
6. CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
7. ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
8. DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%
9. EXISTING ELECTRICAL TRANSFORMER TO BE RELOCATED BY CONTRACTOR.
10. INSTALL GROUTED LANDSCAPE ROCK SWALE D50=6", T=12" PER DETAIL "5" ON SHEET DE2.
11. COMMERCIAL DRIVEWAY APPROACH PER CCAUSD #224.
12. CONSTRUCT SIDEWALK RAMP PER CCAUSD #235, CASE 1 A & B = 8 U.O.N.
13. INSTALL "L" TYPE CURB AND GUTTER PER CCAUSD #216.
14. INSTALL DROP INLET PER DRAINAGE STRUCTURE TABLE SHEET GP2.
15. INSTALL CLASS III RCP STORM DRAIN, SIZE, LENGTH, & MATERIAL PER PLAN.
16. LANDSCAPE AREA, SEE LANDSCAPE PLANS.
17. GRADE TO DRAIN V-DITCH 0.5' DEEP, 10:1 SS. CONTRACTOR TO SALVAGE AND REINSTALL EXISTING LANDSCAPE ROCK.
18. INSTALL DECORATIVE WROUGHT IRON GATE PER CCAUSD #425 S1.

LA MANCHA OESTE
138-28-810-030
(R-PD6)



LEGEND

- EXISTING PAVEMENT
- BLOCK WALL
- FLOW RATE/DIRECTION
- PROPERTY LINE
- SCARP (2:1 U.O.N.)
- RETAINING WALL
- 2090 PROPOSED CONTOUR
- 2090 EX. GRND CONTOUR
- (XX.XX) V-DITCH/SWALE
- (XX.XX) EXISTING GRADE
- BC FUTURE GRADE
- BC ASPHALTIC CONCRETE
- BC BACK OF CURB
- BVC BEGIN VERTICAL CURVE
- BL BOUNDARY LINE
- CL CENTERLINE
- C.E. COMMON ELEMENT
- C&G CURB AND GUTTER
- EP EDGE OF PAVEMENT
- EVC END VERTICAL CURVE
- EX EXISTING
- FF FINISH FLOOR
- FG FINISH GRADE
- FL FLOW LINE
- GB GRADE BREAK
- LSA LANDSCAPE AREA
- MG MATCH EXISTING GRADE
- M.U.E. MUNICIPAL UTILITY EASEMENT
- N.U.E. NON EXCLUSIVE UTILITY EASEMENT
- PAD PAD GRADE
- PP POWER POLE
- PL PRIVATE STREET
- P.U.E. PUBLIC UTILITY EASEMENT
- R/W RIGHT OF WAY
- SVZ SIGHT VISIBILITY ZONE
- TC TOP OF CURB
- TF TOP OF FOOTING
- TFW TOP OF RETAINING WALL
- TRANS TOP OF FLOOD WALL
- TRANS TRANSITION
- VG VALLEY GUTTER
- V.C. VERTICAL CURVE
- U.O.N. UNLESS OTHERWISE NOTED
- UNIT BOUNDARY
- MATCHLINE
- AREA OF NEW AC PAVEMENT

APPROVED FOR CONSTRUCTION

7/8/19
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931 FIRST APPROVED DATE: 2-6-19

FLOOD NOTE:

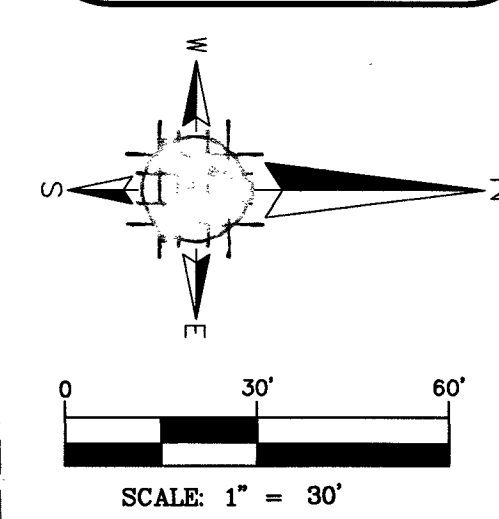
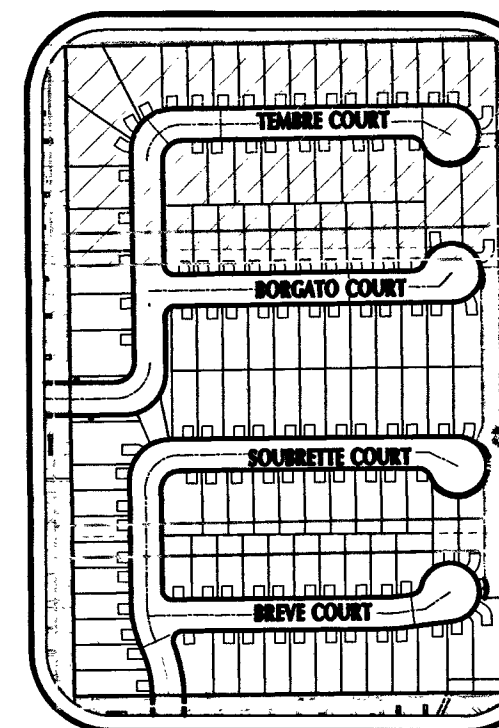
SITE AREA LIES WITHIN FEMA ZONE "X" PER THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 32003C 2545F, CLARK COUNTY, NEVADA, REVISED TO REFLECT LOMR EFFECTIVE MAY 10, 2016. FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

DRAINAGE CERTIFICATION

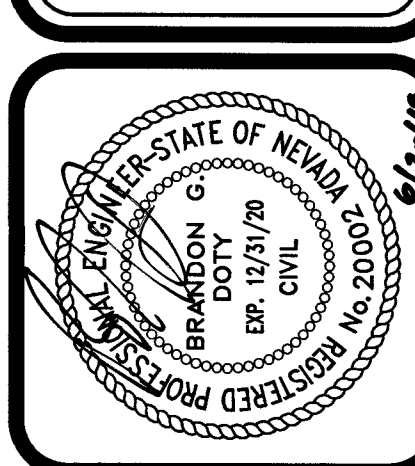
"I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE CITY OF LAS VEGAS DRAINAGE REQUIREMENTS, D55012A"

6/20/2019
DATE
BRANDON G. DOTY P.E. #20002

L18-02380 10754099



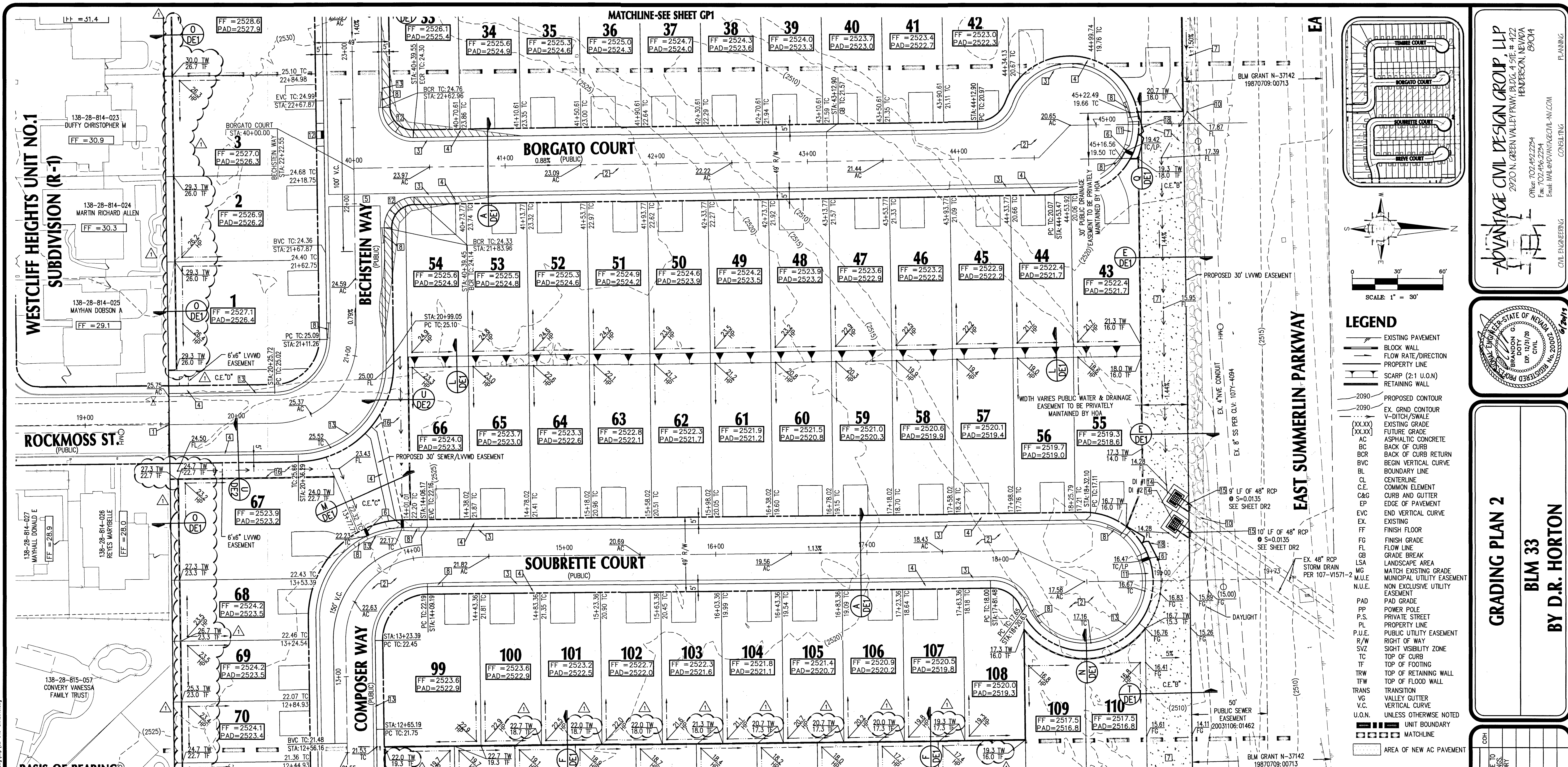
ADVANTAGE CIVIL DESIGN GROUP LLP
2920 N. GREEN VALLEY PKWY. BLDG. 4 STE. 4122
HENDERSON, NEVADA 89014
Office: 702.452.2294
Fax: 702.456.2294
Email: WA@ADVANTAGECIVIL-NEV.COM
CONSULTING
CIVIL ENGINEERING
PLANNING



GRADING PLAN 1
BLM 33
BY D.R. HORTON

NO.	DATE	REVISIONS
1	5/2/19	REVISED RETAINING WALLS, REVISED WATER MAIN DUE TO CONFLICTS, UPDATE STATIONS FOR WATERMAIN FITTINGS, ADDED NOTE TO REMOVE EX. SEWER STUB, ADDED DRY UTILITY PLANS.
JOB NUMBER: 02-043		
DRAWN BY: CW		
DESIGNED BY: CW		
CHECKED BY: BGD		
DATE: 12/2018		
GP1 5 24		

PROJ#: 135931A QS-138-28-SE



BASIS OF BEARING
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS). LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

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FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

FLOOD NOTE:
SITE AREA LIES WITHIN FEMA ZONE "X" PER THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 32003C 2545F, CLARK COUNTY, NEVADA REVISED TO REFLECT LOMR EFFECTIVE MAY 10, 2016. FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

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Call 811
1-800-227-2600

Call before you Dig
1-702-227-2929

CONSTRUCTION NOTES:

- SAWCUT AND MATCH EXISTING AC, PAVEMENT, CURB, GUTTER, AND SIDEWALK PAVEMENT. CONTRACTOR TO VERIFY ELEVATION.
- INSTALL 2" A.C. PAVEMENT WITH 4" TYPE 1 AGGREGATE BASE PER SOILS REPORT AND DETAIL "1" SHEET DE2.
- INSTALL 30" ROLL CURB & GUTTER PER CCAUSD #217.1
- INSTALL 5" THICK SIDEWALK PER CCAUSD #234 (WIDTH PER PLANS).
- INSTALL 8" CONCRETE VALLEY GUTTER PER CCAUSD #228
- INSTALL SIDEWALK UNDER DRAIN PER CCAUSD #236
- INSTALL CONCRETE GUTTER PER DETAIL "2", SHEET DE2
- CONSTRUCT 10" TRANSITION FROM "L" CURB TO "ROLL" CURB PER DETAIL "3" SHEET DE2
- EXISTING ELECTRICAL TRANSFORMER TO BE RELOCATED BY CONTRACTOR.
- INSTALL GROUTED LANDSCAPE ROCK SWALE D50=6", T=12" PER DETAIL "5" ON SHEET DE2
- COMMERCIAL DRIVEWAY APPROACH PER CCAUSD #224.
- CONSTRUCT SIDEWALK RAMP PER CCAUSD #235. CASE 1 A & B = 8 U.O.N.
- INSTALL "L" TYPE CURB AND GUTTER PER CCAUSD #216.
- INSTALL DROP INLET PER DRAINAGE STRUCTURE TABLE SHEET GP2.
- INSTALL CLASS III ROP STORM DRAIN, SIZE, LENGTH, & MATERIAL PER PLAN.
- LANDSCAPE AREA, SEE LANDSCAPE PLANS.
- GRADE TO DRAIN V-DITCH 0.5' DEEP, 10:1 SS. CONTRACTOR TO SALVAGE AND REINSTALL EXISTING LANDSCAPE ROCK.
- INSTALL DECORATIVE WROUGHT IRON GATE PER CCAUSD #425 S1.

EARTHWORK VOLUMES:

RAW CUT..... 29,528 CY
FILL..... 48,807 CY
PRELIMINARY RAW NET..... 19,079 CY IMPORT
TOTAL SITE AREA..... 15.6 ACRES
THIS OPINION OF THE CUT AND FILL QUANTITIES IS PROVIDED AS REQUIRED BY CITY OF HENDERSON REQUIREMENTS. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES.

NOTE:
ADVANTAGE CIVIL DESIGN GROUP 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 BOTH THE HORIZONTAL AND VERTICAL LOCATION 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.

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931 FIRST APPROVED DATE: 3-19-19

STORMWATER MANAGEMENT NOTES:

- THE OWNER, SITE DEVELOPER, 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 AS A RESULT OF CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SYSTEM.
- ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORSEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40, AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
- TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS BEEN TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
- AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
- ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

DRAINAGE STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE	DEPTH	SIZE
*DI #1	GRATE: 2511.78 INV OUT: (2502.93')	DEPTH: 9.3'	8'x6'
*DI #2	GRATE: 2511.78 INV OUT: (2502.81')	DEPTH: 9.4'	8'x6'

*STORMWATER INLET CONCRETE STAMP PER USDOCC DRAWING #421

GENERAL NOTES

- SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
- CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY. FOR SOILS INFORMATION, REFERENCE SOILS STUDY BY: ANGLE ENGINEERING. PROJECT NUMBER: 37031-1 DATED: 2/15/18
- CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
- CONSTRUCT RETAINING WALL, FOOTING ELEVATION AND TOP OF RETAINING WALL ELEVATION PER PLAN.
- CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
- ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
- DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%.

DRAINAGE CERTIFICATION
I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE CITY OF LAS VEGAS DRAINAGE REQUIREMENTS, DS5012A

BRANDON G. DOTY P.E. #20002
DATE: 6/20/2019
L18-02380 107Y5099

REVISIONS

NO.	DATE	DESCRIPTION
1	5/2/19	REVISED RETAINING WALLS, REVISED WATER MAIN DATE TO CONFORM TO THE CITY OF LAS VEGAS DRAINAGE REQUIREMENTS, DS5012A.

JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/2018

GP2 **6** **24**

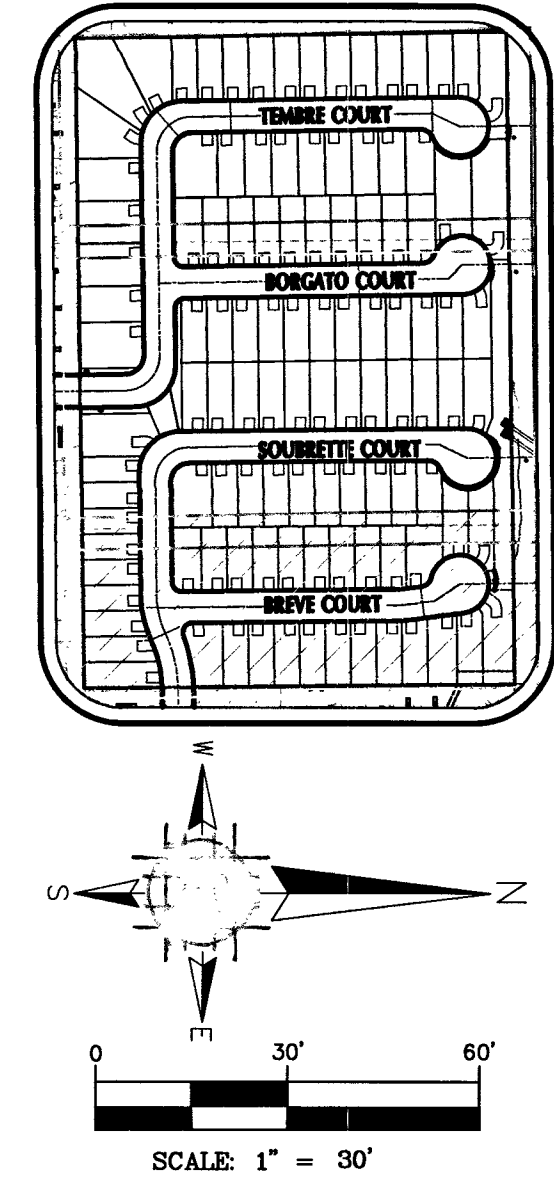
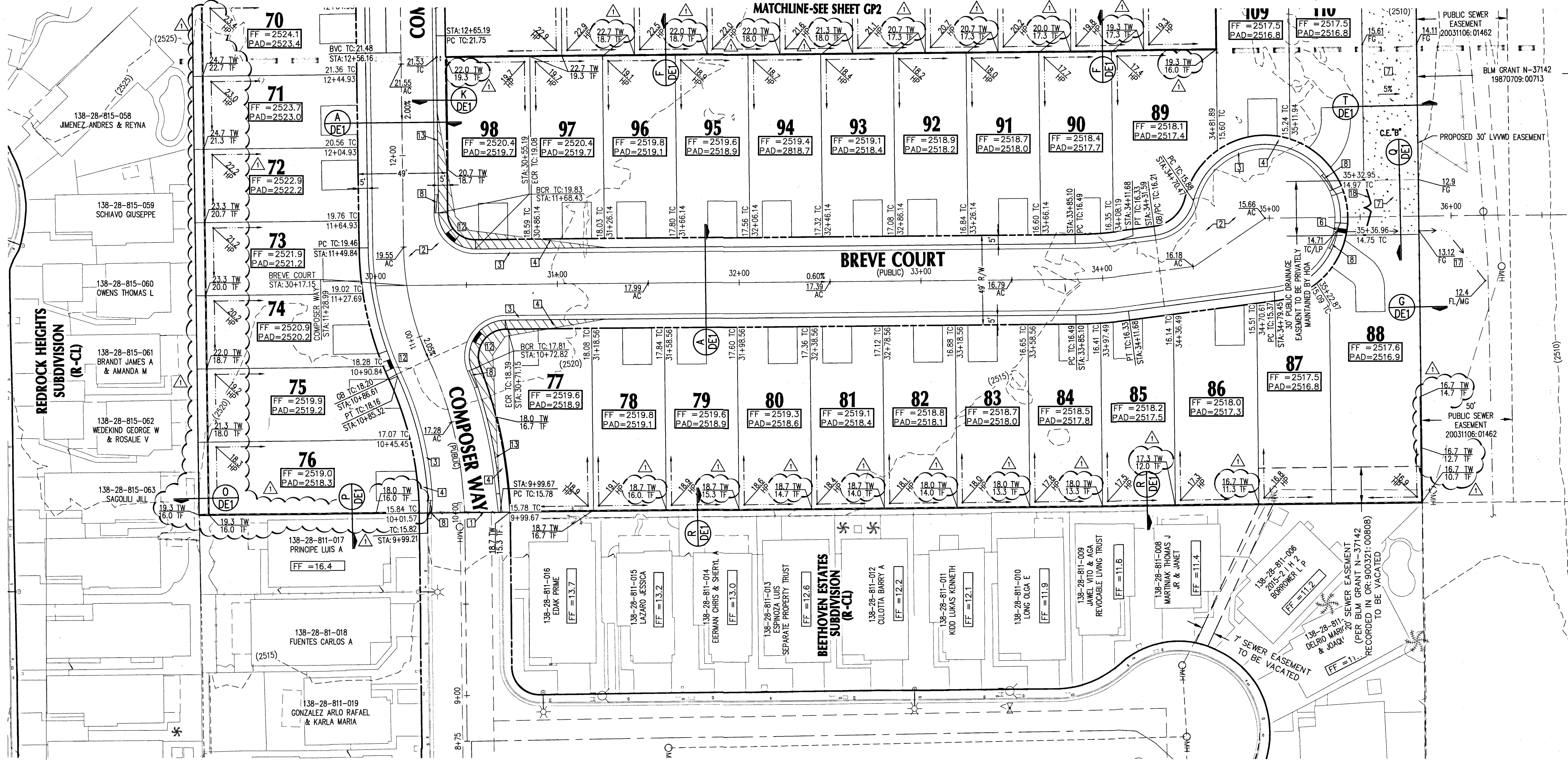
ADVANTAGE CIVIL DESIGN GROUP, LLP
2970 N. GREEN VALLEY PKWY, BLDG. 4 STE # 422
HENDERSON, NEVADA 89014
OFFICE: 702.492.2294
FAX: 702.496.2294
Email: JMB@ADVANTAGECIVIL-LLP.COM
CONSULTING
CIVIL ENGINEERING

BLM 33
BY D.R. HORTON

GRADING PLAN 2

LEGEND

- EXISTING PAVEMENT
- BLOCK WALL
- FLOW RATE/DIRECTION
- PROPERTY LINE
- SCARP (2:1 U.O.N.)
- RETAINING WALL
- PROPOSED CONTOUR
- EX. GRND CONTOUR
- V-DITCH/SWALE
- EXISTING GRADE
- FUTURE GRADE
- AC
- ASPHALTIC CONCRETE
- BACK OF CURB
- BACK OF CURB RETURN
- BVC
- BACK VERTICAL CURVE
- BOUNDARY LINE
- CENTERLINE
- C.E.
- COMMON ELEMENT
- C&G
- CURB AND GUTTER
- EP
- EDGE OF PAVEMENT
- EVC
- END VERTICAL CURVE
- EX
- EXISTING
- FF
- FINISH FLOOR
- FG
- FINISH GRADE
- FL
- FLOW LINE
- GB
- GRADE BREAK
- LANDSCAPE AREA
- LSA
- MATCH EXISTING GRADE
- MG
- MUNICIPAL UTILITY EASEMENT
- N.U.E.
- NON EXCLUSIVE UTILITY EASEMENT
- PAD
- PAVEMENT
- PP
- POWER POLE
- P.S.
- PRIVATE STREET
 PL | PROPERTY LINE || P.U.E. | PUBLIC UTILITY EASEMENT |
| R/W | RIGHT OF WAY |
| SVZ | SIGHT VISIBILITY ZONE |
| TC | TOP OF CURB |
| TF | TOP OF FOOTING |
| TRW | TOP OF RETAINING WALL |
| TFW | TOP OF FLOOD WALL |
| TRANS | TRANSITION |
| VG | VALLEY GUTTER |
| V.C. | VERTICAL CURVE |
| U.O.N. | UNLESS OTHERWISE NOTED |
| UNIT BOUNDARY | |
| MATCHLINE | |
| AREA OF NEW AC PAVEMENT | |



- LEGEND**
- EXISTING PAVEMENT
 - FLOW RATE/DIRECTION
 - PROPERTY LINE
 - SCARP (2:1 U.O.N)
 - RETAINING WALL
 - PROPOSED CONTOUR
 - EX. GRND CONTOUR
 - V-DITCH/SWALE
 - EXISTING GRADE
 - FUTURE GRADE
 - AC ASPHALTIC CONCRETE
 - BC BACK OF CURB
 - BOR BACK OF CURB RETURN
 - BVC BEGIN VERTICAL CURVE
 - BL BOUNDARY LINE
 - CL CENTERLINE
 - C.E. COMMON ELEMENT
 - C&G CURB AND GUTTER
 - EP EDGE OF PAVEMENT
 - EVC END VERTICAL CURVE
 - EX EXISTING
 - FF FINISH FLOOR
 - FG FINISH GRADE
 - FL FLOW LINE
 - GB GRADE BREAK
 - LSA LANDSCAPE AREA
 - WG MATCH EXISTING GRADE
 - M.U.E MUNICIPAL UTILITY EASEMENT
 - N.U.E NON EXCLUSIVE UTILITY EASEMENT
 - PAD PAD GRADE
 - PP POWER POLE
 - P.S. PRIVATE STREET
 - PL PROPERTY LINE
 - P.U.E PUBLIC UTILITY EASEMENT
 - R/W RIGHT OF WAY
 - SVZ SIGHT VISIBILITY ZONE
 - TC TOP OF CURB
 - TF TOP OF FOOTING
 - TRW TOP OF RETAINING WALL
 - TFW TOP OF FLOOD WALL
 - TRANS TRANSITION
 - VS VALLEY CUTTER
 - V.C. VERTICAL CURVE
 - U.O.N. UNLESS OTHERWISE NOTED
 - UNIT BOUNDARY
 - MATCHLINE
 - AREA OF NEW AC PAVEMENT

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FLOOD NOTE:

SITE AREA LIES WITHIN FEMA ZONE "X" PER THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 32003C 2545F, CLARK COUNTY, NEVADA REVISED TO REFLECT LOWR EFFECTIVE MAY 10, 2016. FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 3615°00' N
CENTRAL MERIDIAN: 114°58' W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

AT LAS VEGAS VERTICAL CONTROL POINT "OLVDO 285A" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

STORM DRAIN QUANTITIES

CONCRETE FOR DRAINAGE EASEMENTS 1400 SY
GROUTED RIP-RAP D50=6", T=12" 169 CY
48" ROP STORM DRAIN 19 LF
8"x6" DROP INLET 2 EA

SOILS NOTE:

FOR SOILS INFORMATION, REFERENCE SOILS STUDY
BY: ANGLE ENGINEERING
PROJECT NUMBER: 37031-1
DATED: 2/15/18

EARTHWORK VOLUMES:

RAW CUT..... 29,528 CY
RAW FILL..... 48,607 CY
PRELIMINARY RAW NET..... 19,079 CY IMPORT
TOTAL SITE AREA..... 15.6 ACRES
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- CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
- ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
- DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%

CONSTRUCTION NOTES:

- SAWCUT AND MATCH EXISTING A.C. PAVEMENT, CURB, GUTTER, AND SIDEWALK PAVEMENT. CONTRACTOR TO VERIFY ELEVATION.
- INSTALL 2" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1" SHEET DE2
- INSTALL 30" ROLL CURB & GUTTER PER CCAUSD #217.1
- INSTALL 5" THICK SIDEWALK PER CCAUSD #234 (WIDTH PER PLANS).
- INSTALL 8" CONCRETE VALLEY GUTTER PER CCAUSD #228
- INSTALL SIDEWALK UNDER DRAIN PER CCAUSD #236
- INSTALL CONCRETE GUTTER PER DETAIL "2", SHEET DE2
- CONSTRUCT 10' TRANSITION FROM "L" CURB TO "ROLL" CURB PER DETAIL "3" SHEET DE2
- EXISTING ELECTRICAL TRANSFORMER TO BE RELOCATED BY CONTRACTOR.
- INSTALL GROUTED LANDSCAPE ROCK SWALE D50=6", T=12" PER DETAIL "5" ON SHEET DE2
- COMMERCIAL DRIVEWAY APPROACH PER CCAUSD #224
- CONSTRUCT SIDEWALK RAMP PER CCAUSD #235, CASE 1 A & B = 8 U.O.N.
- INSTALL "L" TYPE CURB AND GUTTER, PER CCAUSD #216.
- INSTALL DROP INLET PER DRAINAGE STRUCTURE TABLE SHEET GP2.
- INSTALL CLASS III ROP STORM DRAIN, SIZE, LENGTH, & MATERIAL PER PLAN.
- LANDSCAPE AREA, SEE LANDSCAPE PLANS.
- GRADE TO DRAIN V-DITCH 0.5' DEEP, 10:1 SS. CONTRACTOR TO SALVAGE AND REINSTALL EXISTING LANDSCAPE ROCK.
- INSTALL DECORATIVE WROUGHT IRON GATE PER CCAUSD #425 S1.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931A FIRST APPROVED DATE: 2-6-19

DRAINAGE CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE CITY OF LAS VEGAS DRAINAGE REQUIREMENTS, D55012A

BRANDON G. DOTY P.E. #20002
DATE: 6/20/2019

GRADING PLAN 3

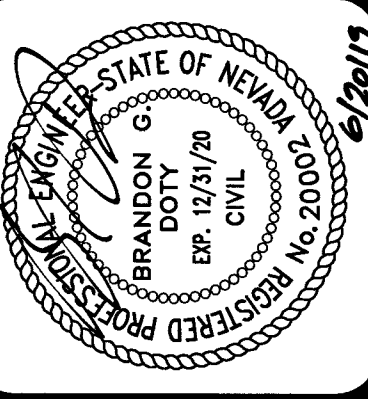
BLM 33

BY D.R. HORTON

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY. BLDG. 4 STE # 422
HENDERSON, NEVADA 89014

Office: 702.452.2254
Fax: 702.456.2254
Email: MAIL@ADVANTAGECIVIL-LLP.COM

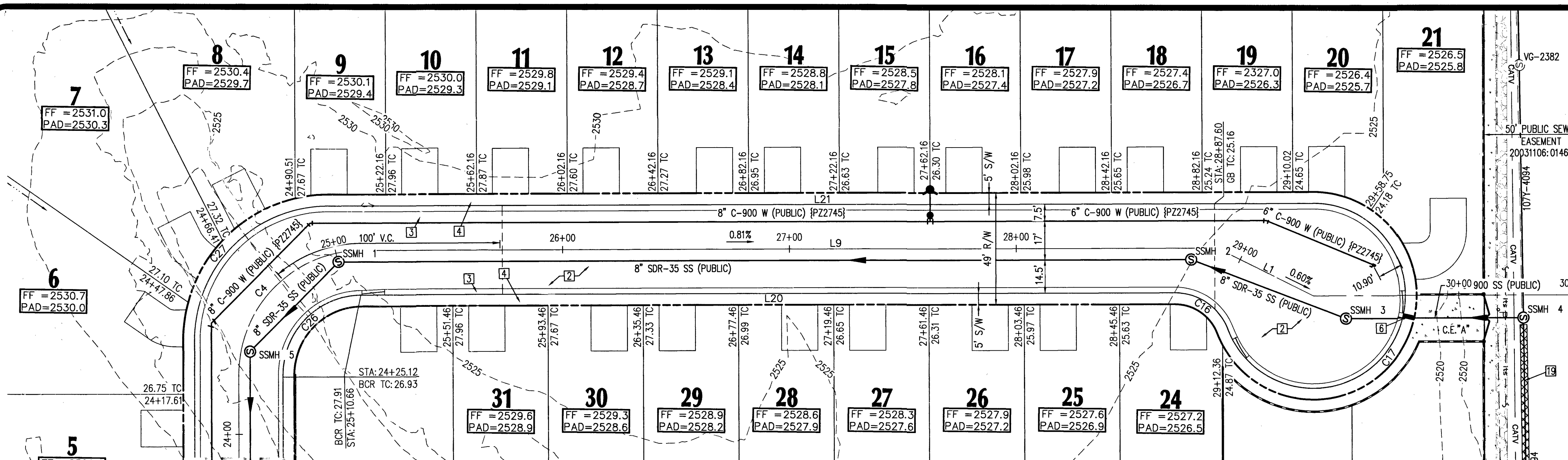
CIVIL ENGINEERING PLANNING



REVISIONS		NO.	DATE	DESCRIPTION
1	5/2/19	1		REVISED RETAINING WALLS, DELETED WATER MAIN DUE TO CONFLICTS, UPDATE STATIONS FOR WATERMAIN ELEVATIONS, ADDED NOTE TO REMOVE EX. SEWER STUD, ADDED DRY UTILITY PLANS.

JOB NUMBER: 02-043	DRAWN BY: CW
DESIGNED BY: CW	CHECKED BY: BGD
DATE: 12/2018	
GP3	7
24	

L18-02380 107Y5099



TEMBRE COURT (PUBLIC)-PLAN VIEW
SCALE: 1"=30'

- CONSTRUCTION NOTES:**
- SAWOUT AND MATCH EXISTING A.C. PAVEMENT, CURB, GUTTER, AND SIDEWALK PAVEMENT. CONTRACTOR TO VERIFY ELEVATION.
 - INSTALL 2" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1" SHEET DE2.
 - INSTALL 30" ROLL CURB & GUTTER PER CCAUSD #217.1.
 - INSTALL 5" THICK SIDEWALK PER CCAUSD #234 (WIDTH PER PLANS).
 - INSTALL 8" CONCRETE VALLEY GUTTER PER CCAUSD #228.
 - INSTALL SIDEWALK UNDER DRAIN PER CCAUSD #236.
 - INSTALL CONCRETE GUTTER PER DETAIL "2", SHEET DE2.
 - CONSTRUCT 10' TRANSITION FROM "L" CURB TO "ROLL" CURB PER DETAIL "3" SHEET DE2.
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 - COMMERCIAL DRIVEWAY APPROACH PER CCAUSD #224.
 - CONSTRUCT SIDEWALK RAMP PER CCAUSD #235, CASE 1 A & B = 8 U.O.N.
 - INSTALL "L" TYPE CURB AND GUTTER PER CCAUSD #216.
 - INSTALL DROP INLET PER DRAINAGE STRUCTURE TABLE THIS SHEET.
 - INSTALL CLASS III RCP STORM DRAIN, SIZE, LENGTH, & MATERIAL PER PLAN.
 - LANDSCAPE AREA, SEE LANDSCAPE PLANS.
 - GRADE TO DRAIN V-DITCH 0.5' DEEP, 10:1 SS. CONTRACTOR TO SALVAGE AND REINSTALL EXISTING LANDSCAPE ROCK.
 - TRENCH BACKFILL AND AC PAVEMENT RESTORATION PER CCAUSD #503, 500.4, AND 500.5.
 - ABANDON EXISTING MANHOLES AND SEWER MAINS PER DCSWCS SECTION 3.18.1 METHOD C & 3.18.2A.
 - CONTRACTOR TO INSTALL A MINIMUM OF 4" THICK REINFORCED CONCRETE ENCASUREMENT PER DCSWCS ST DWGS SD-14.

NOTE:
SEE SHEET PP8 FOR LINE AND CURVE TABLES.

LEGEND

CENTER LINE	---
RIGHT-OF-WAY	---
PROPOSED WATER	PVC W
PROPOSED SEWER	PVC SS
EXISTING WATER	EX. WATER LINE
EXISTING SEWER	EX. SEWER LINE
EXISTING GAS	EX. GAS
PROPOSED SAWCUT	---
EXISTING EDGE PWMT	---
SANITARY SEWER	SS
WATER	WAT
PRIVATE	PVT
INVERT	INV
ELEVATION	ELEV
MANHOLE	MH

- UTILITY NOTES:**
- ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
 - WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (REF. UDACS 2.17.01.D).
 - GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 2.11.01.E.
 - ALL SEWER AND STORM DRAIN 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 CROSSING AND CLEARANCES.
 - ALL LOTS HAVE WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER PRESSURE EXCEEDS 80 PSI.
 - INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
 - WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
 - MAINTAIN MINIMUM 24" COVER PER UDACS 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.
 - WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03.
 - INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15.

- GENERAL NOTES**
- SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
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 - ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY.
 - CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION, REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
 - CONSTRUCT RETAINING WALL, FOOTING ELEVATION AND TOP OF WALL ELEVATION PER PLAN.
 - CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
 - ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
 - DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%.

SIGHT VISIBILITY NOTE:
NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTING, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE.

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TEMBRE COURT (PUBLIC)-PROFILE VIEW
HORIZONTAL: 1"=30'
VERTICAL: 1"=3'

BASIS OF BEARING
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK
CITY OF LAS VEGAS VERTICAL CONTROL POINT "OLV00 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

FAST
Call before you Dig
1-702-432-5300
FRESHWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig
1-800-227-2600

Call before you Dig
1-702-227-2929

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931A DATE: 2-6-19

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY. 4TH FL. # 422
HENDERSON, NEVADA 89014
Office: 702.432.2224
Fax: 702.436.2224
Email: MHL@ADVANTAGECIVIL-LLP.COM
CONSULTING

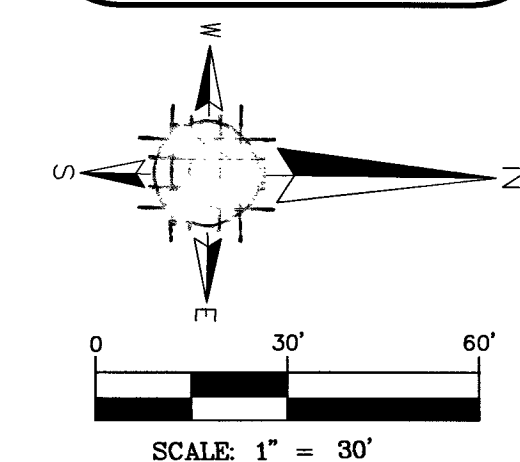
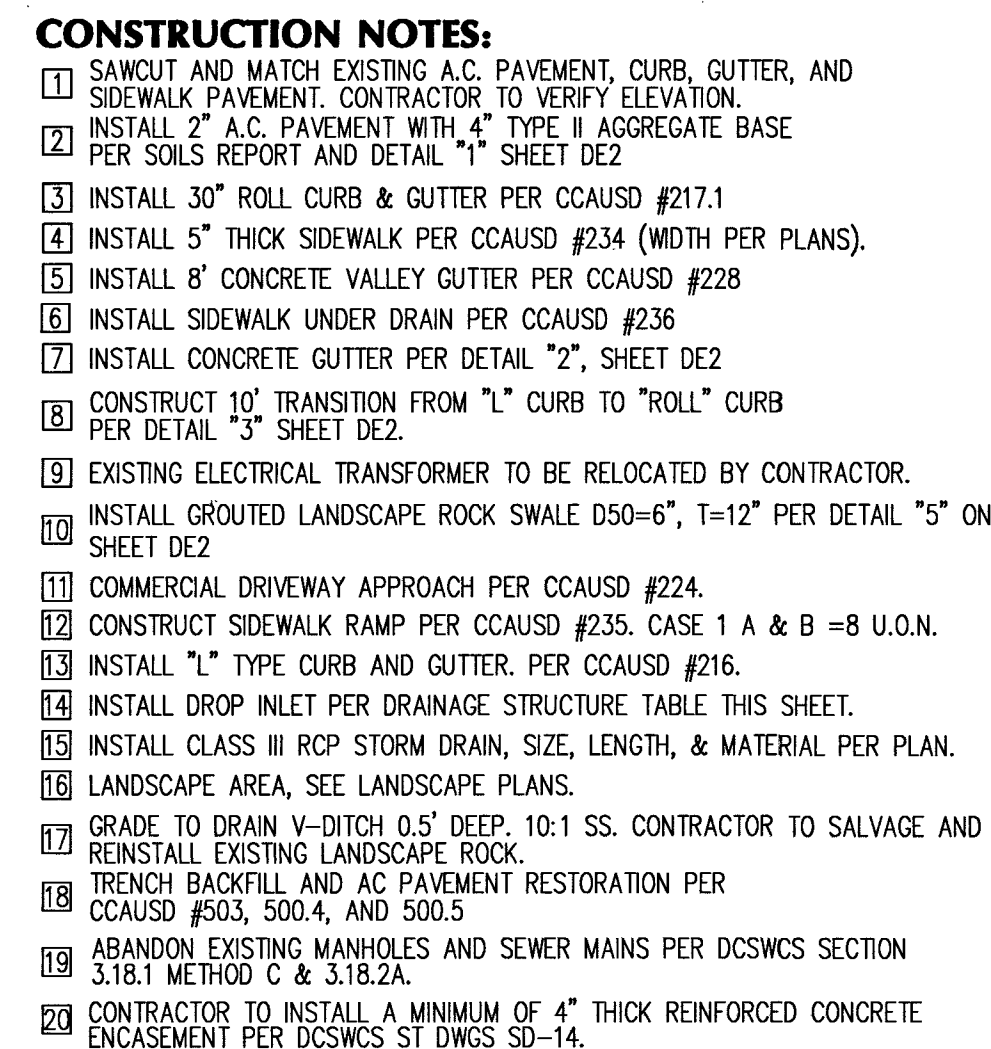
PLAN & PROFILE TEMBRE COURT
BLM 33
BY D.R. HORTON

NO.	DATE	REVISIONS	DESCRIPTION
1	5/2/19	ADDED	WATER CROSSING PER UDACS SECTION 2.22.02.C
2		ADDED	NOTE TO REMOVE EX. SEWER SUB. & SING PLANS
3		ADDED	UPDATE STATIONS FOR WATERMAIN FITTINGS

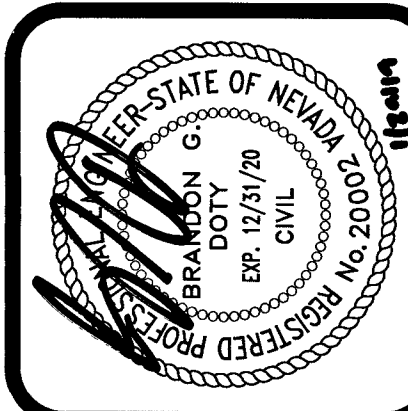
JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/2018

PP1 8 24

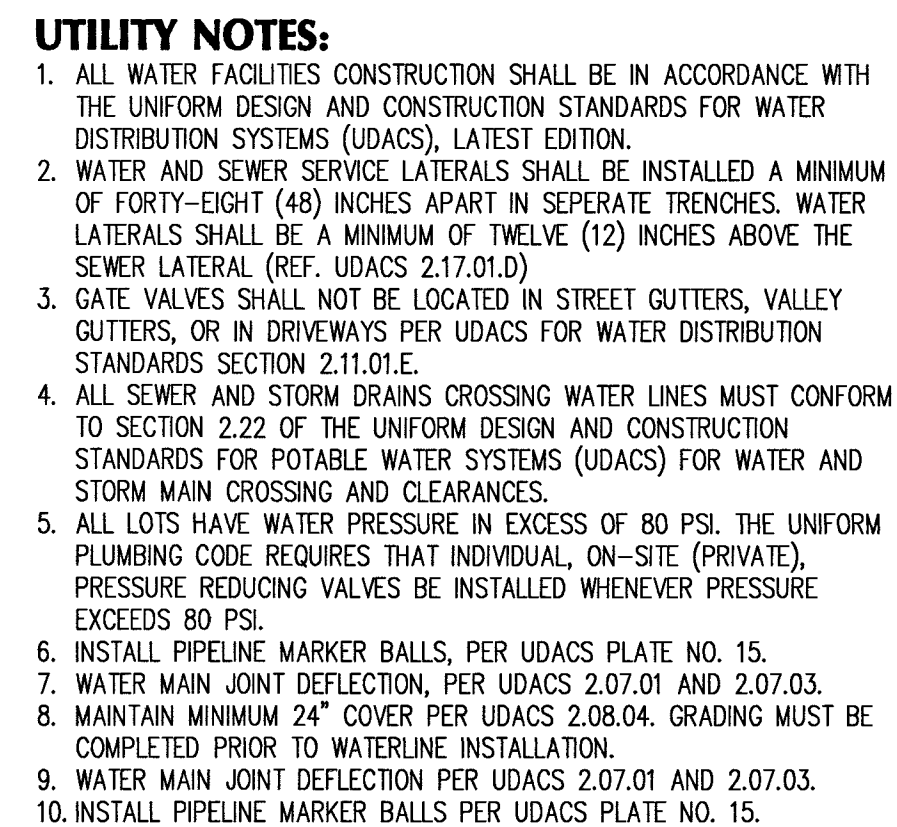
L18-02380 107Y5099



ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY, BLDG. 4 5TH FL. 422
HENDERSON, NEVADA 89014
Office: 702.452.2294
Fax: 702.456.2254
Email: MAIL@ADVANTAGECIVIL-NC.COM
P.L.L.P.
CIVIL ENGINEERING CONSULTING



BLM 33
BY D.R. HORTON



GENERAL NOTES

1. SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
2. CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
3. ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY.
4. CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION, REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
5. CONSTRUCT RETAINING WALL, FOOTING ELEVATION AND TOP OF WALL ELEVATION PER PLAN.
6. CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
7. ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
8. DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%

APPROVED FOR CONSTRUCTION

Shanne Ocon
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931 DATE: 02-26-19

[illegible]

PP2	9 24
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schaffin PLOT DATE: 01-29-19 PLOT TIME: 11:37:29 DWG PATH: N:\Horton\043 BLM 33\dwg\Imp\02-043-PNP.DWG

FAST

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before you
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FREWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION

Call before you dig
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.

Call
811

OR
1-800-227-2600

BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS) LAS VEGAS AND THE CENTRAL MERIDIAN OF THE NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

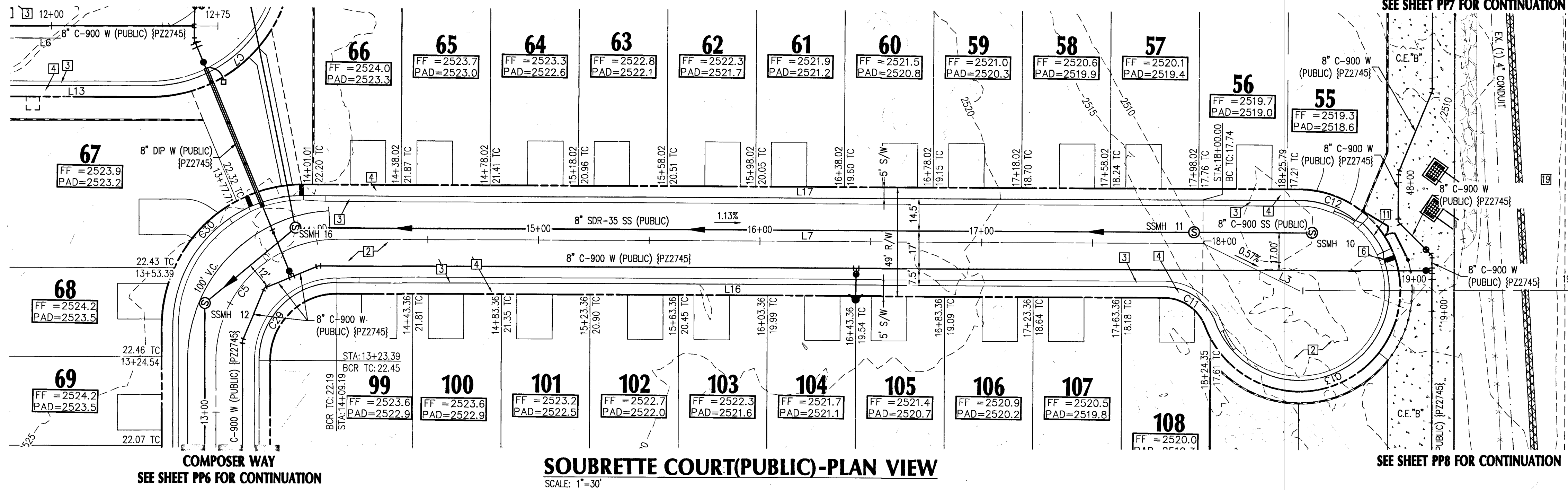
BENCHMARK
CITY OF LAS VEGAS VERTICAL CONTROL POINT "0LV00 28S4" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.
ELEVATION: 2551.98 FEET
777.844 METERS
CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN DATUM OF 1988 (NAVD 88)

SIGHT VISIBILITY NOTE:
NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTING, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE.

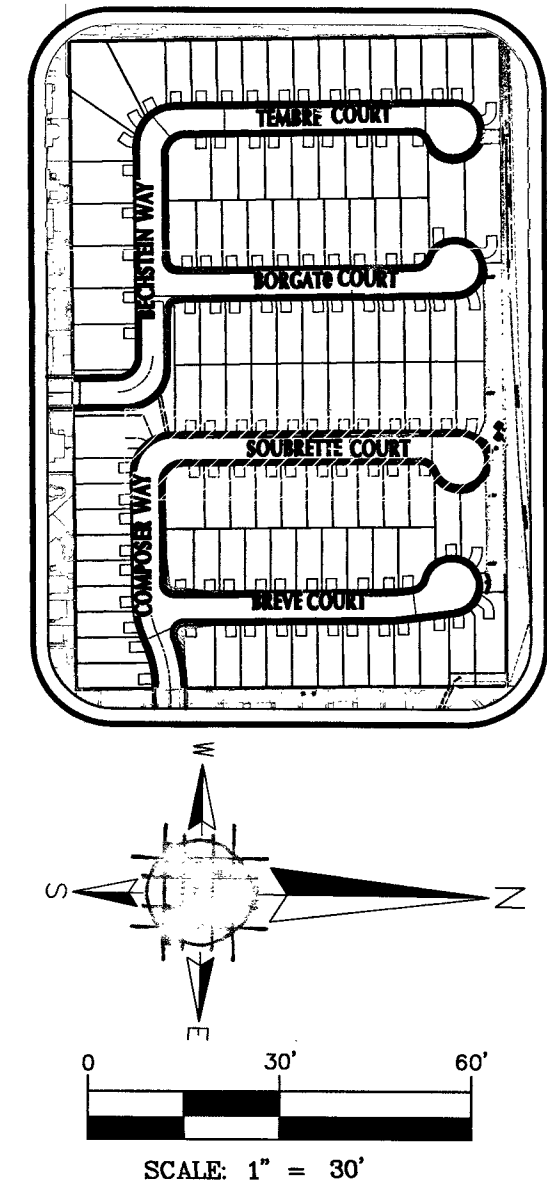
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NOTE:
LOTS 22-23 REQUIRE C-900 SANITARY SEWER LATERAL

L18-02380 107V5099



- CONSTRUCTION NOTES:**
1. SAWCUT AND MATCH EXISTING A.C. PAVEMENT, CURB, GUTTER, AND SIDEWALK PAVEMENT. CONTRACTOR TO VERIFY ELEVATION.
 2. INSTALL 2" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1" SHEET DE2.
 3. INSTALL 30" ROLL CURB & GUTTER PER CCAUSD #217.1
 4. INSTALL 5" THICK SIDEWALK PER CCAUSD #234 (WIDTH PER PLANS).
 5. INSTALL 8" CONCRETE VALLEY GUTTER PER CCAUSD #228
 6. INSTALL SIDEWALK UNDER DRAIN PER CCAUSD #236
 7. INSTALL CONCRETE GUTTER PER DETAIL "2", SHEET DE2
 8. CONSTRUCT 10' TRANSITION FROM "1" CURB TO "ROLL" CURB PER DETAIL "3" SHEET DE2.
 9. EXISTING ELECTRICAL TRANSFORMER TO BE RELOCATED BY CONTRACTOR.
 10. INSTALL CROUTED LANDSCAPE ROCK SWALE D50=6", T=12" PER DETAIL "5" ON SHEET DE2
 11. COMMERCIAL DRIVEWAY APPROACH PER CCAUSD #224.
 12. CONSTRUCT SIDEWALK RAMP PER CCAUSD #235, CASE 1 A & B = 8 U.O.N.
 13. INSTALL "L" TYPE CURB AND GUTTER. PER CCAUSD #216.
 14. INSTALL DROP INLET PER DRAINAGE STRUCTURE TABLE THIS SHEET.
 15. INSTALL CLASS III RCP STORM DRAIN, SIZE, LENGTH, & MATERIAL PER PLAN.
 16. LANDSCAPE AREA, SEE LANDSCAPE PLANS.
 17. GRADE TO DRAIN V-DITCH 0.5' DEEP. 10:1 SS. CONTRACTOR TO SALVAGE AND REINSTALL EXISTING LANDSCAPE ROCK.
 18. TRENCH BACKFILL AND AC PAVEMENT RESTORATION PER CCAUSD #503, 500.4, AND 500.5
 19. ABANDON EXISTING MANHOLES AND SEWER MAINS PER DCSWCS SECTION 3.18.1 METHOD C & 3.18.2A.
 20. CONTRACTOR TO INSTALL A MINIMUM OF 4" THICK REINFORCED CONCRETE ENCASEMENT PER DCSWCS ST DWGS SD-14.



LEGEND

CENTER LINE	---
RIGHT-OF-WAY	---
PROPOSED WATER	PVC W
PROPOSED SEWER	PVC SS
EXISTING WATER	EX. WATER LINE
EXISTING SEWER	EX. SEWER LINE
EXISTING GAS	EX. GAS
PROPOSED SAWCUT	---
EXISTING EDGE PAVT	---
SANITARY SEWER	SS
WATER	WAT
PRIVATE	PVT
INVERT	INV
ELEVATION	ELEV
MANHOLE	MH

UTILITY NOTES:

1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
2. WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (REF. UDACS 2.17.01.0)
3. GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 2.11.01.E.
4. ALL SEWER AND 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 CROSSING AND CLEARANCES.
5. ALL LOTS HAVE WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER PRESSURE EXCEEDS 80 PSI.
6. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
7. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
8. MAINTAIN MINIMUM 24" COVER PER UDACS 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.
9. WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03.
10. INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15.

GENERAL NOTES

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5. CONSTRUCT RETAINING WALL, FOOTING ELEVATION AND TOP OF WALL ELEVATION PER PLAN.
6. CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
7. ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
8. DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%

NOTE:
LOTS 108 REQUIRE C-900 SANITARY SEWER LATERAL

SIGHT VISIBILITY NOTE:

NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTING, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE.

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BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL POINT "OLVQO 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.
ELEVATION: 2551.98 FEET
777.844 METERS
CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)



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PLAN & PROFILE SOUBRETTE COURT

BLM 33

BY D.R. HORTON

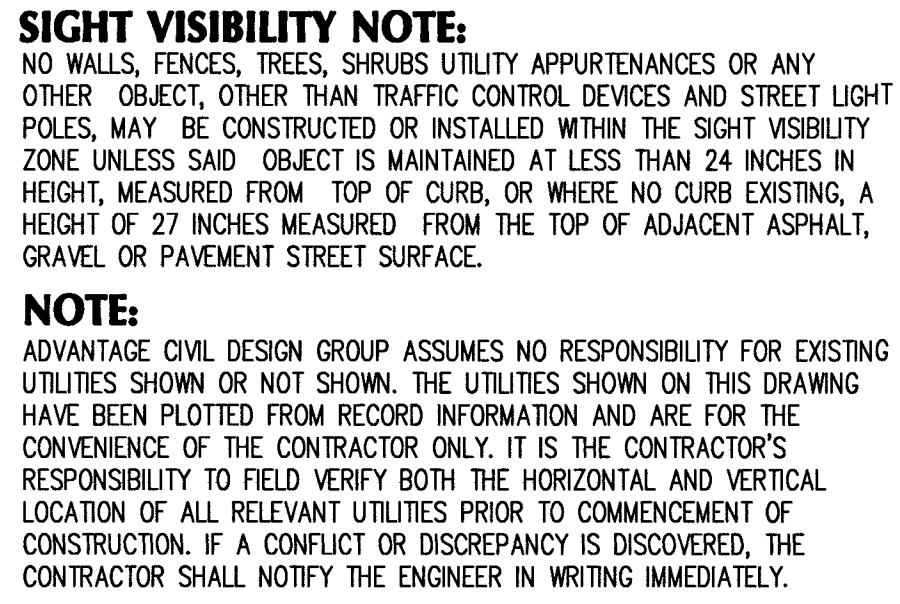
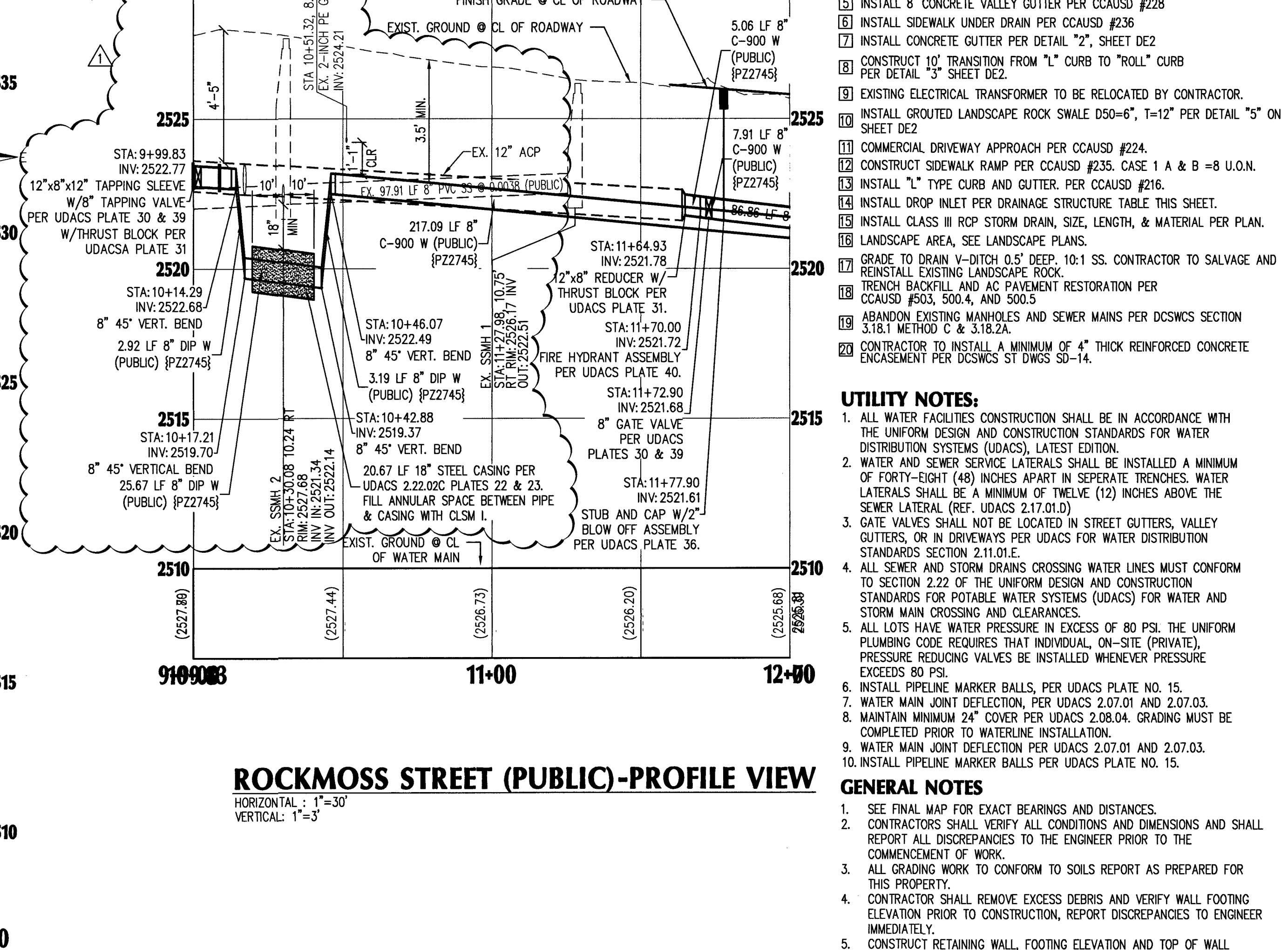
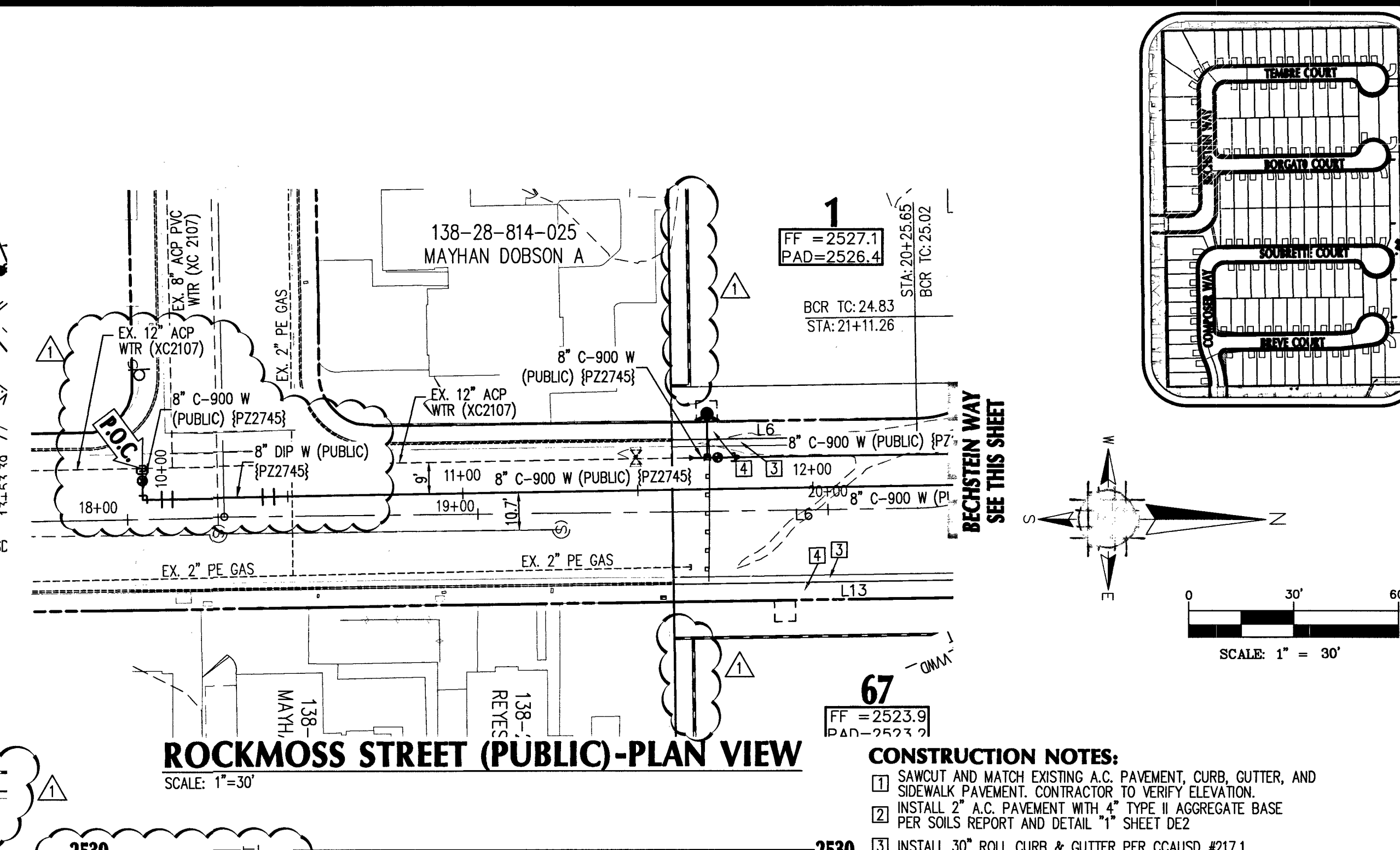
NO.	DATE	REVISIONS	DESCRIPTION

JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/2018

PP3 10 24

L18-02380 107V5099

PROJ# 135931A Q3: 13-28-SE



Chell

SOUTHWEST GAS CORPORATION

DATE 7/10/11

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NOTE:
SEE SHEET PP8 FOR LINE AND CURVE TABLES.

6. CONJUNCTION TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS
AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.

7. ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.

8. DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%

APPROVED FOR CONSTRUCTION

[Signature] 7/8/19

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135921 DATE: 2-6-19

L18-02380 1074509

REVISIONS		COH
NO.	DATE	DESCRIPTION
1	5/2/19	ADDED WATER CROSSING PER UDACS SECTION 2.22.02.C
		ADDED NOTE TO REMOVE EX. SEWER STUB, & S/WG PLANS
		UPDATE STATIONS FOR WATERMAIN FITTINGS

JOB NUMBER: 02-043

DRAWN BY: CW

DESIGNED BY: CW

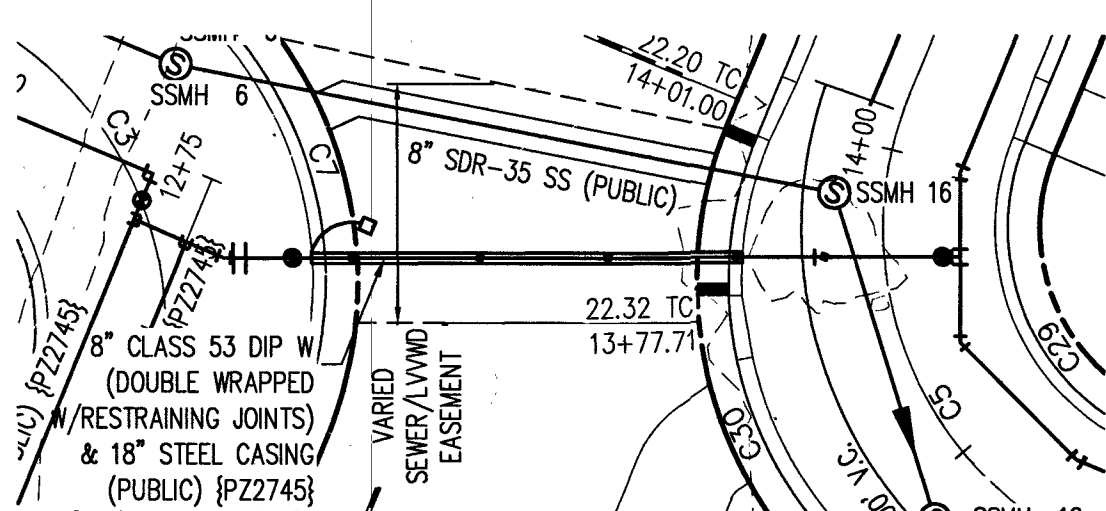
CHECKED BY: BGD

DATE: 12/2018

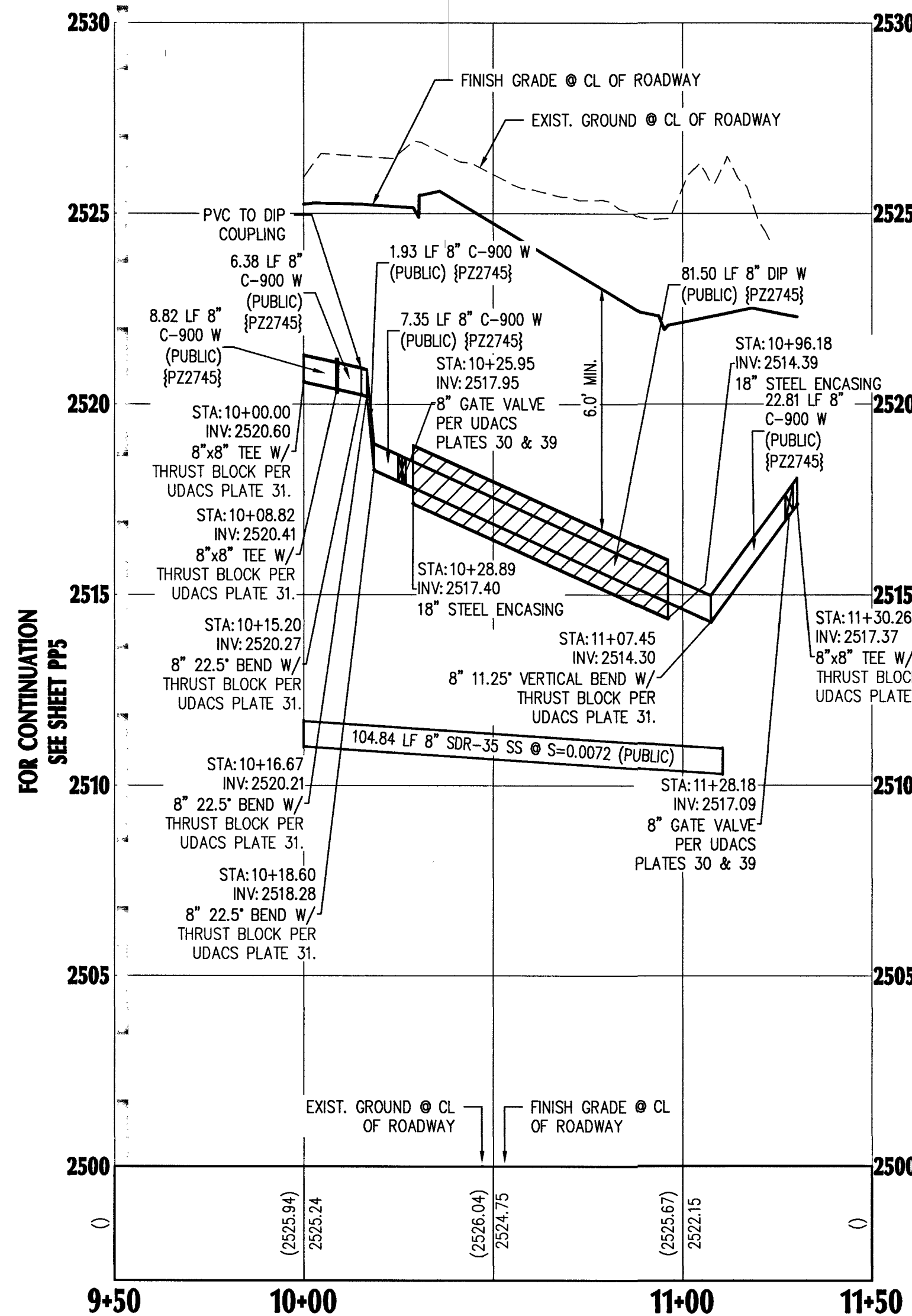
PP5

12

24



30' LVVWD EASEMENT PLAN
SCALE: 1"=30'



30' LVVWD EASEMENT PROFILE VIEW

HORIZONTAL: 1"=30'
VERTICAL: 1"=3'

NOTE:
SEE SHEET PP8 FOR LINE AND CURVE TABLES.

BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

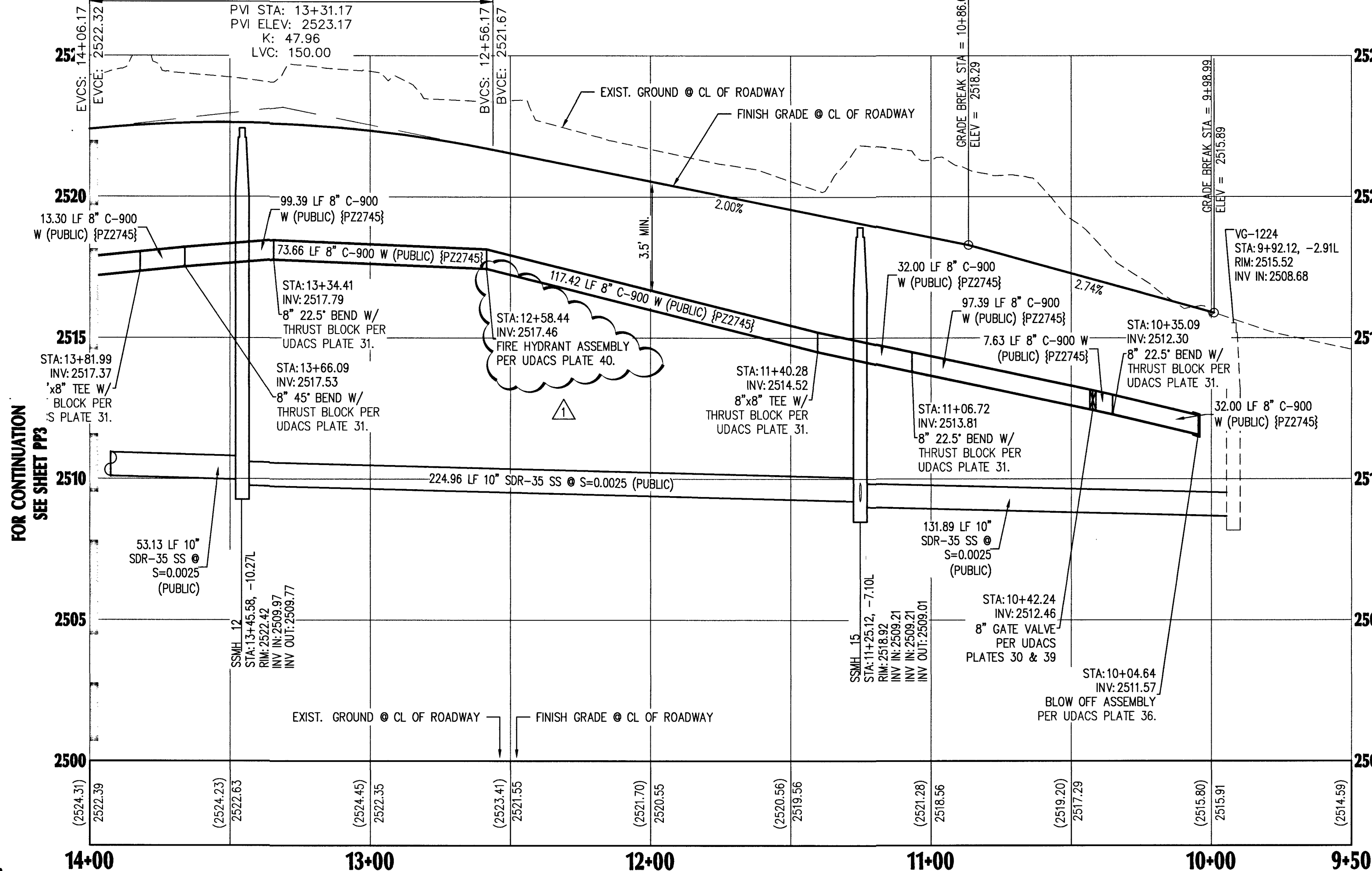
DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

COMPOSER WAY (PUBLIC)-PLAN VIEW

SCALE: 1"=30'



COMPOSER WAY (PUBLIC)-PROFILE VIEW

HORIZONTAL: 1"=30'
VERTICAL: 1"=3'

SIGHT VISIBILITY NOTE:

NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTING, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVED STREET SURFACE.

NOTE:

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CONSTRUCTION NOTES:

1. SAWCUT AND MATCH EXISTING A.C. PAVEMENT, CURB, GUTTER, AND SIDEWALK PAVEMENT. CONTRACTOR TO VERIFY ELEVATION.
2. INSTALL 2" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1" SHEET DE2.
3. INSTALL 30" ROLL CURB & GUTTER PER CCAUSD #217.1.
4. INSTALL 5" THICK SIDEWALK PER CCAUSD #234 (WIDTH PER PLANS).
5. INSTALL 8" CONCRETE VALLEY GUTTER PER CCAUSD #228.
6. INSTALL SIDEWALK UNDER DRAIN PER CCAUSD #236.
7. INSTALL CONCRETE GUTTER PER DETAIL "2", SHEET DE2.
8. CONSTRUCT 10' TRANSITION FROM "L" CURB TO "ROLL" CURB PER DETAIL "3" SHEET DE2.
9. EXISTING ELECTRICAL TRANSFORMER TO BE RELOCATED BY CONTRACTOR.
10. INSTALL GROUDED LANDSCAPE ROCK SWALE D50-6", T=12" PER DETAIL "5" ON SHEET DE2.
11. COMMERCIAL DRIVEWAY APPROACH PER CCAUSD #224.
12. CONSTRUCT SIDEWALK RAMP PER CCAUSD #235, CASE 1 A & B U.O.N.
13. INSTALL "L" TYPE CURB AND GUTTER, PER CCAUSD #216.
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15. INSTALL CLASS III ROP STORM DRAIN, SIZE, LENGTH, & MATERIAL PER PLAN.
16. LANDSCAPE AREA, SEE LANDSCAPE PLANS.
17. GRADE TO DRAIN V-DITCH 0.5' DEEP, 10:1 SS. CONTRACTOR TO SALVAGE AND REINSTALL EXISTING LANDSCAPE ROCK.
18. TRENCH BACKFILL AND AC PAVEMENT RESTORATION PER CCAUSD #503, 500.4, AND 500.5.
19. ABANDON EXISTING MANHOLES AND SEWER MAINS PER DCSWCS SECTION 3.18.1 METHOD C & 3.18.2A.
20. CONTRACTOR TO INSTALL A MINIMUM OF 4" THICK REINFORCED CONCRETE ENCASEMENT PER DCSWCS ST DWGS SD-14.

UTILITY NOTES:

1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
2. WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (REF. UDACS 2.17.01.D).
3. GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 2.11.01.E.
4. ALL SEWER AND 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 CROSSING AND CLEARANCES.
5. ALL LOTS HAVE WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER PRESSURE EXCEEDS 80 PSI.
6. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
7. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
8. MAINTAIN MINIMUM 24" COVER PER UDACS 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.
9. WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03.
10. INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15.

GENERAL NOTES

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3. ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY.
4. CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
5. CONSTRUCT RETAINING WALL, FOOTING ELEVATION AND TOP OF WALL ELEVATION PER PLAN.
6. CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
7. ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
8. DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%.

APPROVED FOR CONSTRUCTION

DESIGNED BY: D. SHADY 7/8/19
PROJECT NO.: 135931 DATE: 2-6-19

PLAN & PROFILE COMPOSER WAY

BLM 33

BY D.R. HORTON

NO.	DATE	REVISIONS	DESCRIPTION
1	6/7/19	ADDED WATER CROSSING PER UDACS SECTION 2.22.02.C	
2		ADDED NOTE TO REMOVE EX. SEWER STUB, & SWG PLANS	
3		UPDATE STATIONS FOR WATERMAIN FITTINGS	
JOB NUMBER: 02-043			
DRAWN BY: CW			
DESIGNED BY: BGD			
CHECKED BY: BGD			
DATE: 12/20/18			

PP6

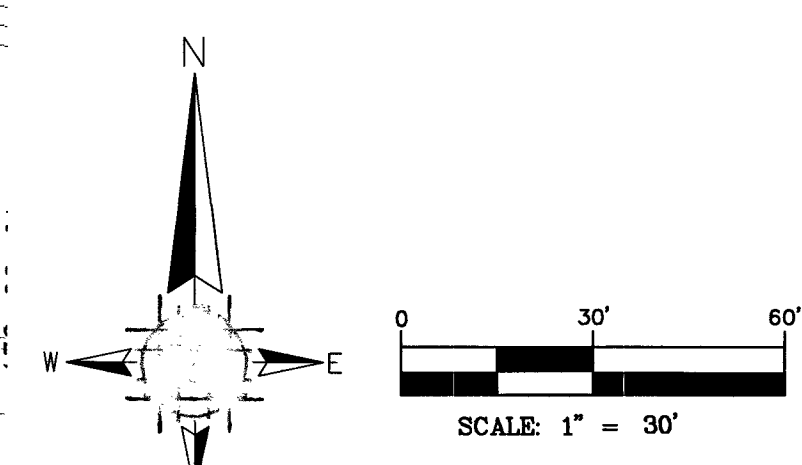
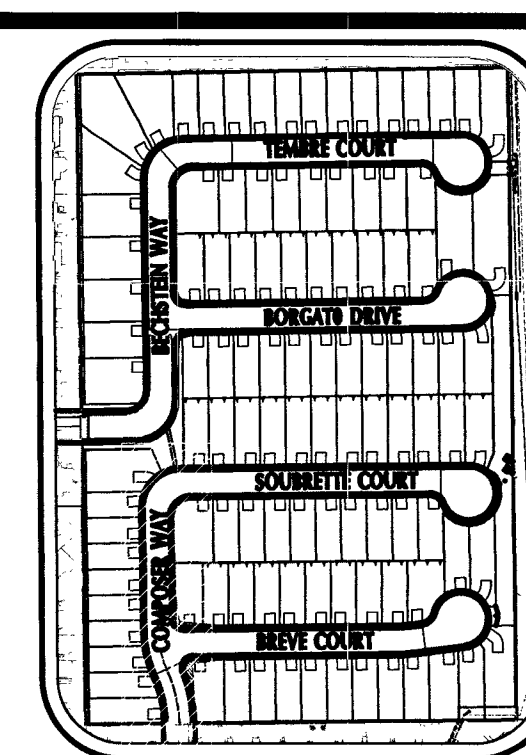
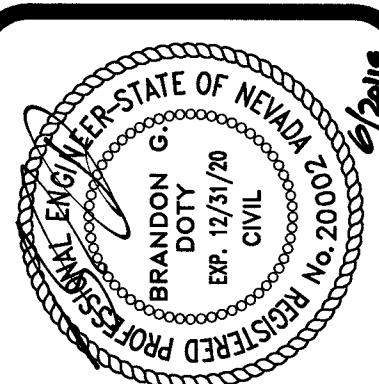
13

24

L18-02380 107Y5099

PROJ.#: 135931A QS: 138-26-SE

ADVANTAGE CIVIL DESIGN GROUP LLP
2970 N. GREEN VALLEY PKWY, BLDG. 4 STE # 422
HENDERSON, NEVADA 89014
Office: 702.452.2294
Fax: 702.456.2294
Email: ADVANTAGECIVIL@GMAIL.COM
CONSULTING
CIVIL ENGINEERING

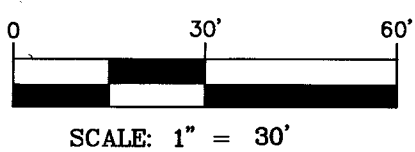
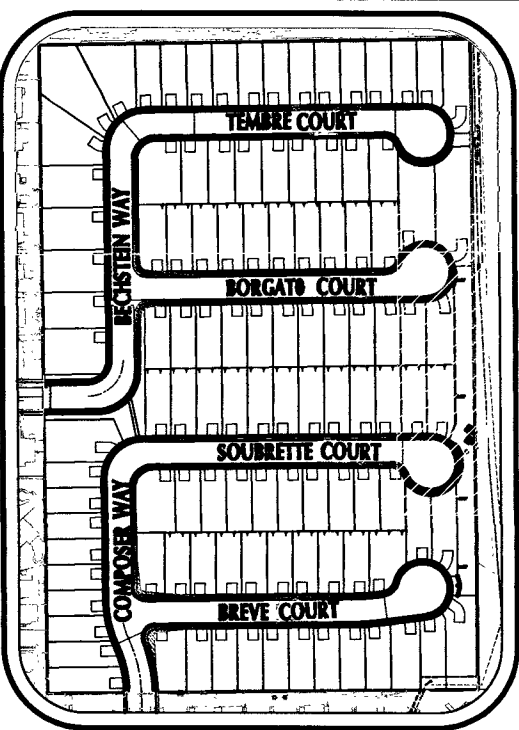




ADVANTAGE CIVIL DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION 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.

- 1 SAWCUT AND MATCH EXISTING A.C. PAVEMENT, CURB, GUTTER, AND SIDEWALK PAVEMENT. CONTRACTOR TO VERIFY ELEVATION.
- 2 INSTALL 2" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOLUS REPORT AND DETAIL "1", SHEET D62
- 3 INSTALL 30" ROLL CURB & GUTTER PER CCAUSD #217.1
- 4 INSTALL 5" THICK SIDEWALK PER CCAUSD #234 (WIDTH PER PLANS).
- 5 INSTALL 8" CONCRETE VALLEY GUTTER PER CCAUSD #228
- 6 INSTALL SIDEWALK UNDER DRAIN PER CCAUSD #236
- 7 INSTALL CONCRETE GUTTER PER DETAIL "2", SHEET D62
- 8 CONSTRUCT 10' TRANSITION FROM "L" CURB TO "ROLL" CURB PER DETAIL "3" SHEET D62.
- 9 EXISTING ELECTRICAL TRANSFORMER TO BE RELOCATED BY CONTRACTOR.
- 10 INSTALL GROUTED LANDSCAPE ROCK SWALE D50=6", T=12" PER DETAIL "5" ON SHEET D62
- 11 COMMERCIAL DRIVEWAY APPROACH PER CCAUSD #224.
- 12 CONSTRUCT SIDEWALK RAMP PER CCAUSD #235. CASE 1 A & B = 8 U.O.N.
- 13 INSTALL "L" TYPE CURB AND GUTTER. PER CCAUSD #216.
- 14 INSTALL DROP INLET PER DRAINAGE STRUCTURE TABLE THIS SHEET.
- 15 INSTALL CLASS III ROP STORM DRAIN, SIZE, LENGTH, & MATERIAL PER PLAN.
- 16 LANDSCAPE AREA, SEE LANDSCAPE PLANS.
- 17 GRADE TO DRAIN V-DITCH 05' DEEP, 10' SS. CONTRACTOR TO SALVAGE AND REINSTALL EXISTING LANDSCAPE RESTORATION.
- 18 TRENCH BACKFILL AND AC PAVEMENT RECONSTRUCTION PER CCAUSD #503, 500.4, AND 500.5
- 19 ABANDON EXISTING MANHOLES AND SEWER MAINS PER DCSWCS SECTION 5.18.1 METHOD C & D
- 20 CONTRACTOR TO INSTALL A MINIMUM OF 4" THICK REINFORCED CONCRETE ENCASEMENT PER DCSWCS ST DWGS 50-14.

SEE SHEET PP8 FOR LINE AND CURVE TABLES



CENTER LINE	----
RIGHT-OF-WAY	=====
PROPOSED WATER	PVC W
PROPOSED SEWER	PVC SS
EXISTING WATER	EX. WATER LINE
EXISTING SEWER	EX. SEWER LINE
EXISTING GAS	EX. GAS
PROPOSED SAWCUT	~~~~~
EXISTING EDGE PVMT	≡≡≡
SANITARY SEWER	SS
WATER	WAT
PRIVATE	PVT
INVERT	INV
ELEVATION	ELEV
MANHOLE	MH

1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
2. WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FOUR (4) FEET (48) INCHES APART. TRENCHES, WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL. (REF. UDACS 2.17.01.0)
3. GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 2.17.01.0
4. ALL WATER MAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER MAIN CROSSING AND CLEARANCES.
5. ALL LOTS HAVE WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS REQUIRE THAT INDIVIDUAL, ONE-SIZE PRIVATE PRESSURE REDUCING VALVES BE INSTALLED WHENEVER PSR EXCEEDS 80 PSI.
6. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
7. MAINTAIN MINIMUM 24" COVER, PER UDACS 2.07.01 AND 2.07.03.
8. MAINTAIN MINIMUM 24" COVER PER UDACS 2.08.04. GRADING MUST BE COMPLETED TO THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS.
9. WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03.
10. INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15.

1. SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
2. CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
3. ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY.
4. CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION, REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
5. CONSTRUCT RETAINING WALL, FOOTING ELEVATION AND TOP OF WALL ELEVATION PER PLAN.
6. CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
7. ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
8. DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931 DATE: 02.06.19

L18-02380 107V5099

BY D.R. HORTON

[illegible]

PROJ#:135931A QS:138-28-SE

ccchaffin PLOT DATE: 01-29-19 PLOT TIME: 11:39:05 DWG PATH: N:\Horton\043 BLM 33\dwg\mp\02-043--PWP.DWG

FAST

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

Call before you Dig
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.

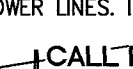
Call
811

OR

1-800-227-2600

AVOID HITTING OVERHEAD
POWER LINES. IT'S COSTLY.

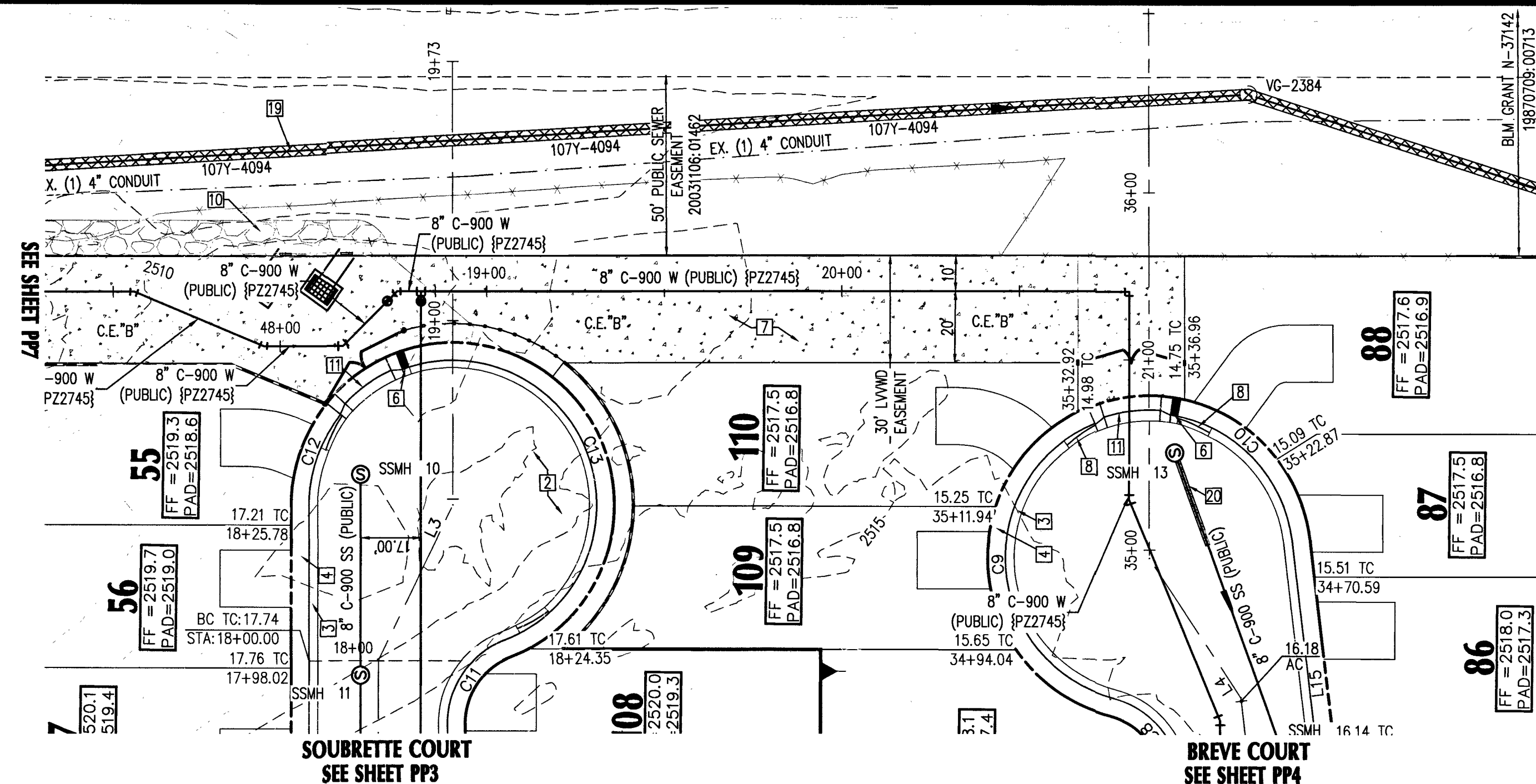
**CALL BEFORE
YOU DO
OVERHEAD**



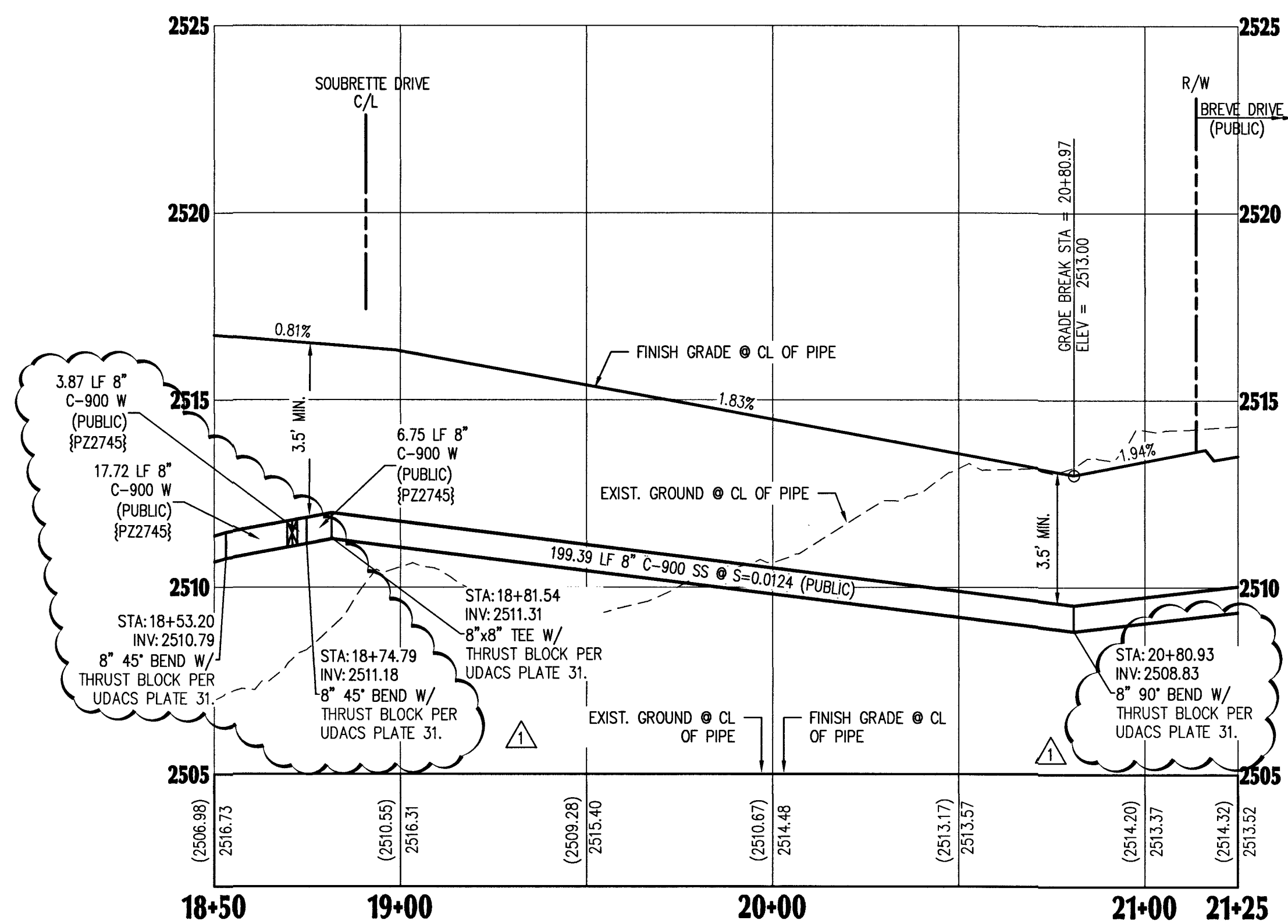
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DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0
 ZONE: LAS VEGAS ZONE
 STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
 CENTRAL MERIDIAN: 114°58'00" W
 FALSE NORTHING: 200,000 METERS
 FALSE EASTING: 100,000 METERS
 STANDARD PARALLEL SCALE: 1.0001
 LINEAR UNIT: US SURVEY FOOT (SFT)

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)



SOUBRETTE-BREVE WATER LOOP-PLAN VIEW
SCALE: 1"=30'



SOUBRETTE-BREVE WATER LOOP-PROFILE VIEW
HORIZONTAL: 1"=30'
VERTICAL: 1"=3'

LINE TABLE		
TAG	LENGTH	BEARING
L1	47.32'	S25°27'01"W
L2	29.68'	S45°53'38"E
L3	48.31'	S25°06'11"W
L4	46.75'	S34°06'38"E
L5	39.28'	S07°25'06"E
L6	70.00'	N00°49'09"W
L7	390.87'	S00°37'58"E
L8	453.05'	S00°53'38"E
L9	377.14'	S00°53'38"E
L10	313.87'	S89°10'51"W
L11	173.54'	S89°10'51"W
L12	367.94'	S00°37'58"E
L13	85.00'	N00°49'09"W
L14	19.91'	S07°25'06"E
L15	80.97'	S00°37'58"E
L16	372.30'	S00°53'38"E
L17	450.88'	S00°37'58"E
L18	433.70'	S00°53'38"E
L19	373.35'	S00°53'38"E
L20	358.41'	S00°53'38"E
L21	434.40'	S00°53'38"E
L22	163.02'	S89°10'51"W
L23	88.70'	S89°10'51"W
L24	328.85'	S89°10'51"W
L25	154.95'	S89°10'51"W
L26	188.59'	S89°10'51"W
L27	330.00'	S00°37'58"E
L28	313.95'	S00°37'58"E

CURVE TABLE				
TAG	RADIUS	LENGTH	TANGENT	DELTA
C1	152.00	64.28	32.63	241°3'46"
C2	225.62	85.57	43.30	211°43'47"
C3	54.50	85.61	54.50	90°00'00"
C4	54.50	85.54	54.43	89°55'31"
C5	54.50	85.79	54.68	90°11'10"
C6	224.50	26.59	13.31	6°47'07"
C7	59.00	92.68	59.00	90°00'00"
C8	25.00	30.10	17.17	68°58'29"
C9	40.50	101.42	122.73	143°28'32"
C10	40.50	52.95	31.03	74°54'44"
C11	25.00	31.16	17.97	71°25'12"
C12	40.50	25.97	13.45	36°44'05"
C13	40.50	126.95	11687.69	179°36'11"
C14	40.50	47.44	26.86	67°06'55"
C15	40.50	107.73	164.97	152°24'48"
C16	25.00	30.10	17.17	68°58'29"
C17	40.50	176.11	58.76	249°09'01"
C18	25.00	30.09	17.17	68°57'56"
C19	171.50	72.52	36.81	241°3'46"
C20	249.60	80.03	40.36	18°22'20"
C21	20.00	38.46	28.65	110°10'21"
C22	181.50	77.20	39.19	24°22'16"
C23	35.00	54.98	35.00	90°00'00"
C24	20.00	31.39	19.97	89°55'31"
C25	20.00	31.44	20.03	90°04'29"
C26	35.00	54.93	34.95	89°55'31"
C27	59.00	92.60	58.92	89°55'31"
C28	20.00	31.35	19.94	89°48'50"
C29	35.00	55.09	35.11	90°11'10"
C30	59.00	92.87	59.19	90°11'10"
C31	244.00	28.90	14.46	6°47'07"
C32	205.00	24.28	12.15	6°47'07"

UTILITY NOTES:

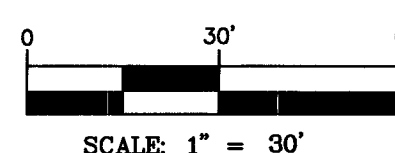
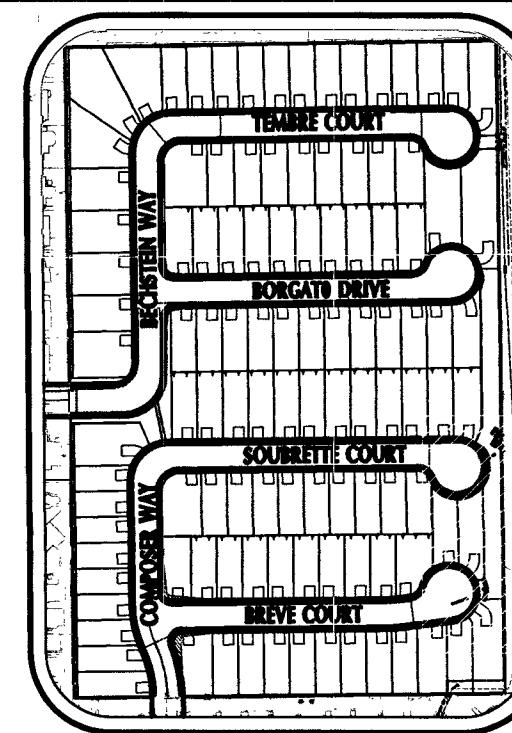
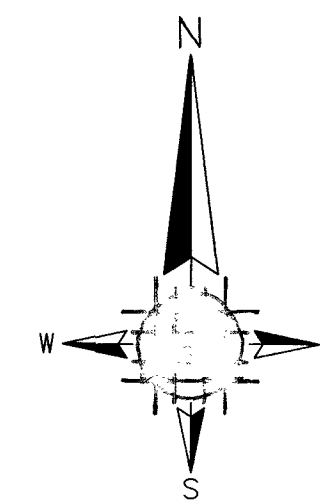
- ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
- WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (REF. UDACS 2.17.01.D)
- GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 2.11.01.E.
- ALL SEWER AND 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 CROSSING AND CLEARANCES.
- ALL LOTS HAVE WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER PRESSURE EXCEEDS 80 PSI.
- INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
- WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
- MAINTAIN MINIMUM 24" COVER PER UDACS 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.
- WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03.
- INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15.

GENERAL NOTES

- SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
- CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY.
- CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION, REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
- CONSTRUCT RETAINING WALL, FOOTING ELEVATION AND TOP OF WALL ELEVATION PER PLAN.
- CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
- ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
- DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%.

CONSTRUCTION NOTES:

- SAWCUT AND MATCH EXISTING A.C. PAVEMENT, CURB, GUTTER, AND SIDEWALK PAVEMENT. CONTRACTOR TO VERIFY ELEVATION.
- INSTALL 2" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1" SHEET DE2
- INSTALL 30" ROLL CURB & GUTTER PER CCAUSD #217.1
- INSTALL 5" THICK SIDEWALK PER CCAUSD #234 (WIDTH PER PLANS).
- INSTALL 8" CONCRETE VALLEY GUTTER PER CCAUSD #228
- INSTALL SIDEWALK UNDER DRAIN PER CCAUSD #236
- INSTALL CONCRETE GUTTER PER DETAIL "2", SHEET DE2
- CONSTRUCT 10' TRANSITION FROM "L" CURB TO "ROLL" CURB PER DETAIL "3" SHEET DE2.
- EXISTING ELECTRICAL TRANSFORMER TO BE RELOCATED BY CONTRACTOR.
- INSTALL GROUTED LANDSCAPE ROCK SWALE D50=6", T=12" PER DETAIL "5" ON SHEET DE2
- COMMERCIAL DRIVEWAY APPROACH PER CCAUSD #224.
- CONSTRUCT SIDEWALK RAMP PER CCAUSD #235, CASE 1 A & B =8 U.O.N.
- INSTALL "L" TYPE CURB AND GUTTER. PER CCAUSD #216.
- INSTALL DROP INLET PER DRAINAGE STRUCTURE TABLE THIS SHEET.
- INSTALL CLASS III RCP STORM DRAIN, SIZE, LENGTH, & MATERIAL PER PLAN.
- LANDSCAPE AREA, SEE LANDSCAPE PLANS.
- GRADE TO DRAIN V-DITCH 0.5' DEEP, 10:1 SS. CONTRACTOR TO SALVAGE AND REINSTALL EXISTING LANDSCAPE ROCK.
- TRENCH BACKFILL AND AC PAVEMENT RESTORATION PER CCAUSD #503, 500.4, AND 500.5
- ABANDON EXISTING MANHOLES AND SEWER MAINS PER DCSWCS SECTION 3.18.1 METHOD C & 3.18.2A.
- CONTRACTOR TO INSTALL A MINIMUM OF 4" THICK REINFORCED CONCRETE ENCASEMENT PER DCSWCS ST DWGS SD-14.



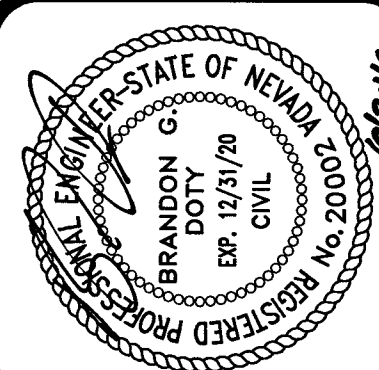
LEGEND

CENTER LINE	---
RIGHT-OF-WAY	---
PROPOSED WATER	PVC W
PROPOSED SEWER	PVC SS
EXISTING WATER	EX. WATER LINE
EXISTING SEWER	EX. SEWER LINE
EXISTING GAS	EX. GAS
PROPOSED SAWCUT	---
EXISTING EDGE PVT	---
SANITARY SEWER	SS
WATER	WAT
PRIVATE	PVT
INVERT	INV
ELEVATION	ELEV
MANHOLE	MH

P&P SOUBRETTE-BREVE WATER LOOP

BLM 33

BY D.R. HORTON



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HENDERSON, NEVADA 89014
Office: 702.452.2294
Fax: 702.456.2294
Email: MHL@ADVANTAGECIVIL.COM
CONSULTING
CIVIL ENGINEERING
PLANNING

NO.	DATE	REVISIONS	DESCRIPTION
1	6/7/19	ADDED WATER CROSSING PER UDACS SECTION 2.22.02.C	
2		ADDED NOTE TO REMOVE EX. SEWER SUB. & SWG PLANS	
3		UPDATE STATIONS FOR WATERMAIN FITTINGS	

JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/2018

PP8 **15** **24**

APPROVED FOR CONSTRUCTION

DISHAD 7/8/19
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931 DATE: 2-6-19

L18-02380 107Y5099

SIGHT VISIBILITY NOTE:

NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTING, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE.

NOTE:

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BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL POINT "OLV00 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)



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1-800-227-2600



chaffin PLOT DATE: 06-20-19 PLOT TIME: 11:35:22 DWG PATH: K:\Users\UAS\BLM 33\Drawings\102-043-PP9-official.dwg

BASIS OF BEARING
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE
NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND
LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF
1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE
GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

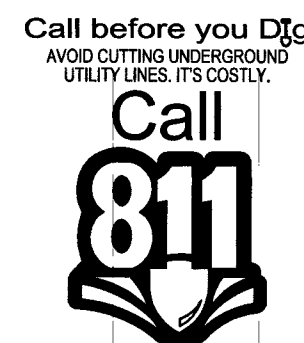
BENCHMARK
CITY OF LAS VEGAS VERTICAL CONTROL POINT "OLV00 2854" BEING A
RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF &
CIMARRON.

ELEVATION: 2551.98 FEET
777.844 METERS

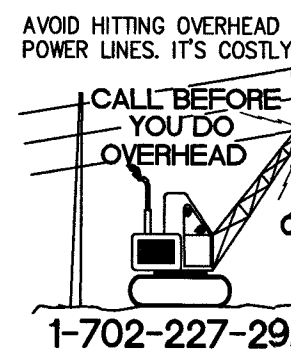
CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)



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FREEMAN AND ARTISAN
SYSTEM OF TRANSPORTATION



1-800-227-2600

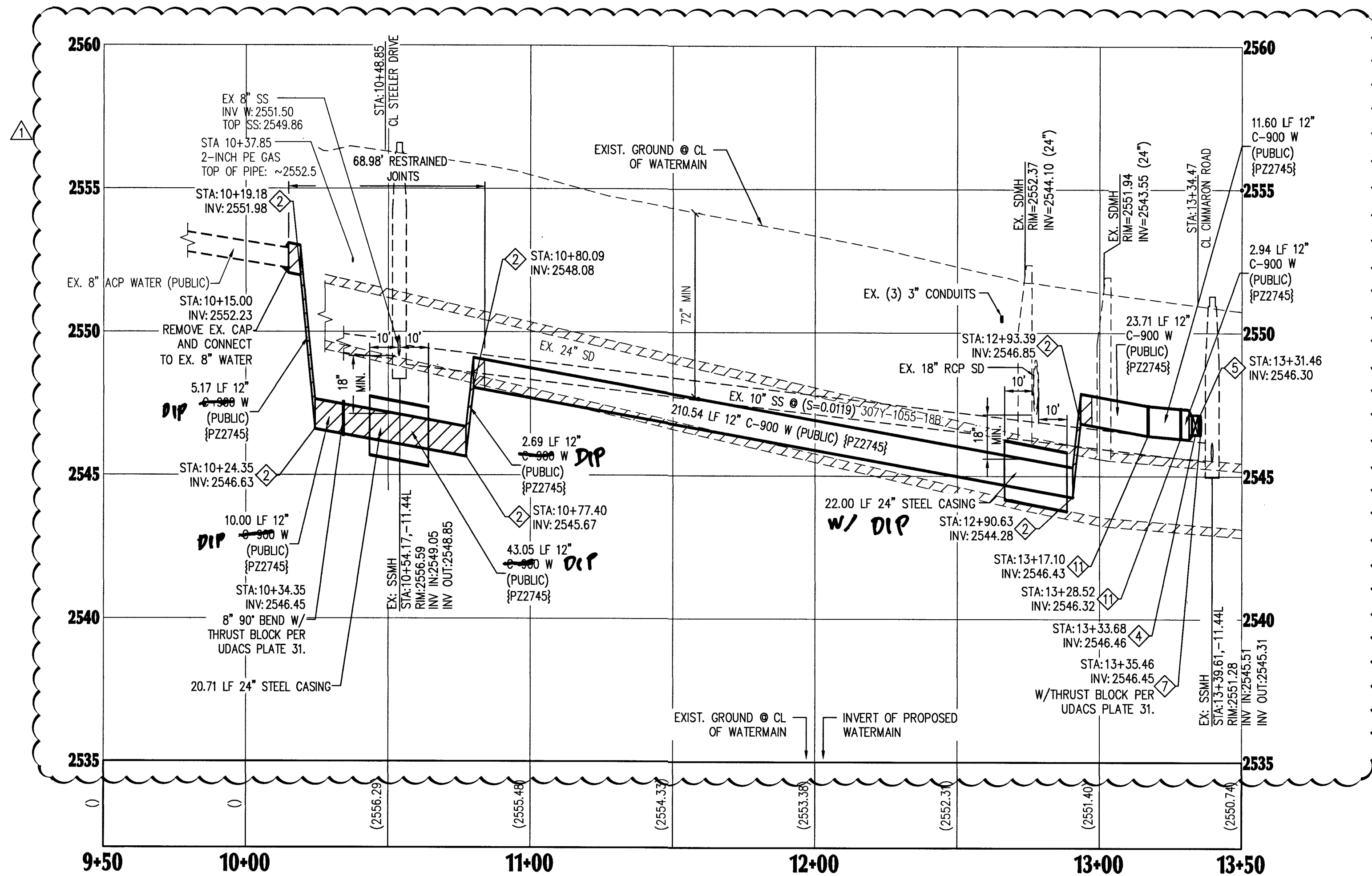


NOTE:

ADVANTAGE CIVIL DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING
UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING
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CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S
RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL
LOCATION 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.

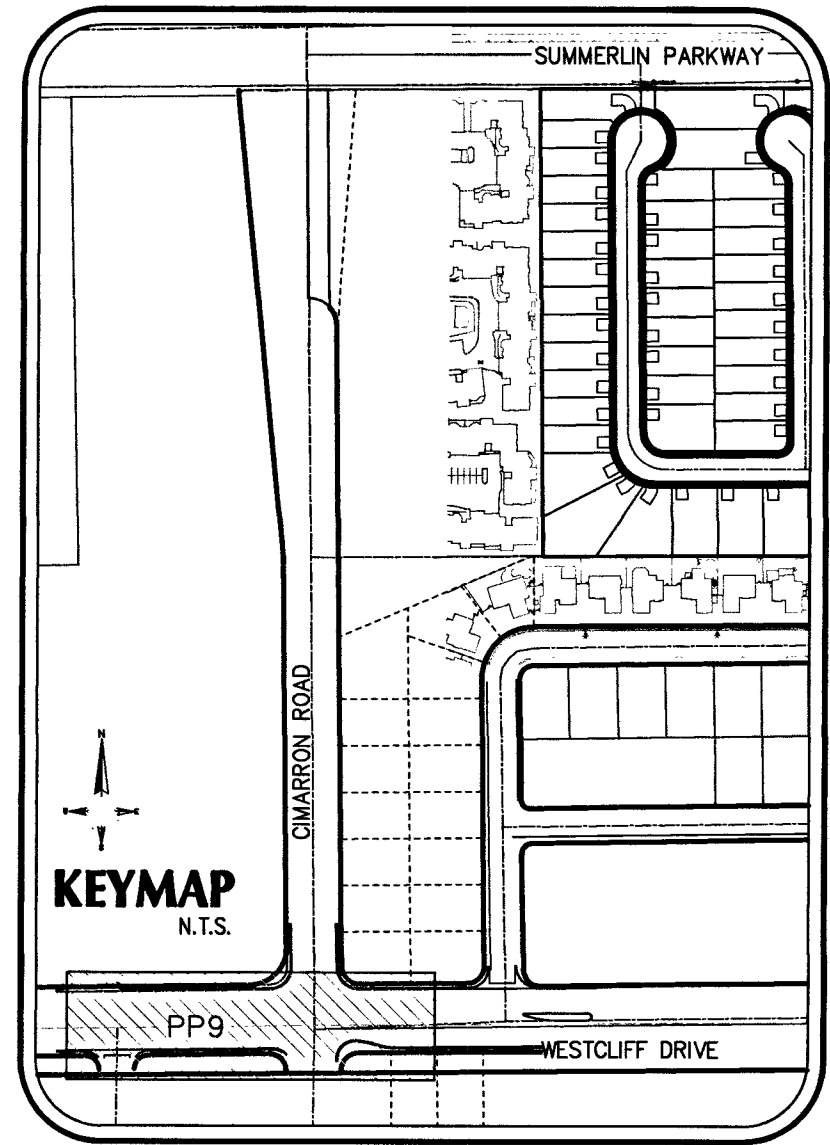
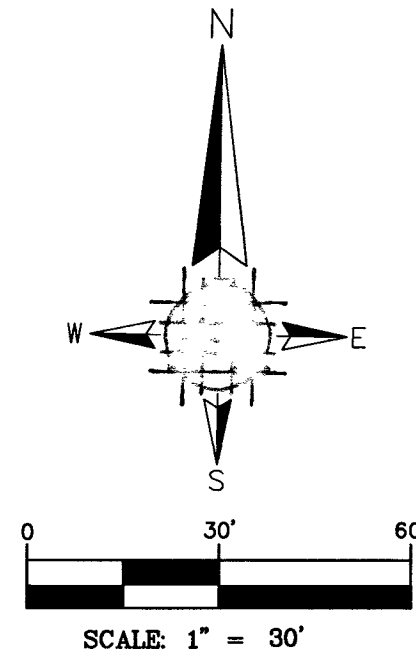
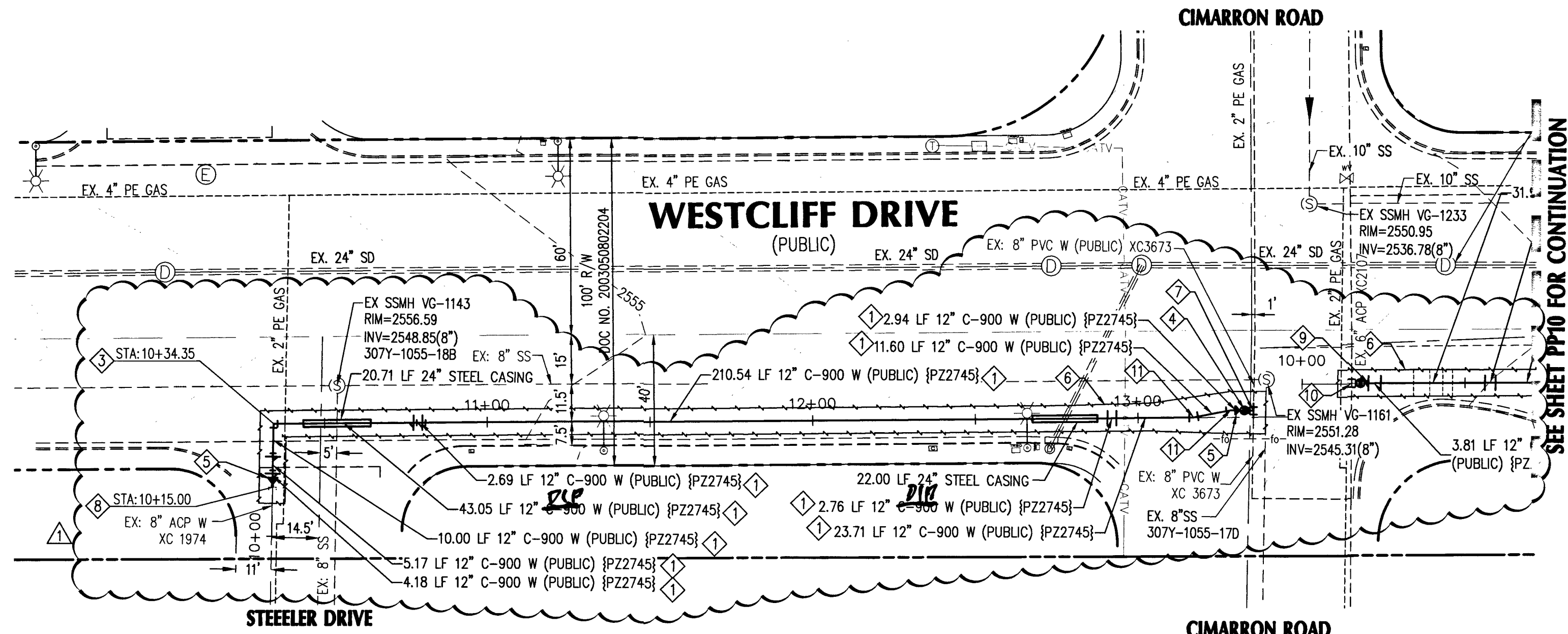
WESTCLIFF DRIVE (PUBLIC)-PROFILE VIEW

HORIZONTAL: 1"=30'
VERTICAL: 1"=3'



WESTCLIFF DRIVE (PUBLIC)-PLAN VIEW

SCALE: 1"=30'



LEGEND

CENTER LINE	---
PROPOSED EASEMENT	---
RIGHT-OF-WAY	---
PROPOSED WATER	PVC W
PROPOSED SEWER	PVC SS
EXISTING WATER	EX. WATER LINE
EXISTING SEWER	EX. SEWER LINE
EXISTING GAS	EX. GAS
PROPOSED SAWCUT	---
EXISTING EDGE PAVT	---
SANITARY SEWER	SS
WATER	WAT
PRIVATE	PVT
INVERT	INV
ELEVATION	ELEV
MANHOLE	MH
BACKWATER VALVE	BWV
PRESSURE REDUCING VALVE	PRV

WATER

1. WATER MAIN SIZE/MATERIAL PER PLAN. TRENCH & BACKFILL PER UDACS PLATE 17.
2. INSTALL 12" 45° BEND W/ THRUST BLOCK PER UDACS PLATE 31.
3. INSTALL 12" 90° BEND W/ THRUST BLOCK PER UDACS PLATE 31.
4. INSTALL 8" GATE VALVE PER UDACS PLATES 30 & 39.
5. INSTALL 12"x8" REDUCER W/ THRUST BLOCK PER UDACS PLATE 31.
6. SAWCUT REMOVE AND REPLACE WITH 4" A.C. PAVEMENT OVER 4" TYPE II OVER 9" TYPE I.
7. AGGREGATE BASE PER CCADSD #503.
8. INSTALL 8"x8" TAPPING SLEEVE W/TAPPING VALVE PER UDACS 2.24.01 A, PLATE 30 & 39.
9. REMOVE CAP AND BLOWOFF PER UDACS PLATE #36 AND CONNECT TO EXISTING MAIN.
10. INSTALL 12"x6" REDUCER W/ THRUST BLOCK PER UDACS PLATE 31.
11. INSTALL 6"x6" TAPPING SLEEVE W/TAPPING VALVE PER UDACS 2.24.01 A, PLATE 30 & 39.
12. INSTALL 12" 11.25° BEND W/ THRUST BLOCK PER UDACS PLATE 31.

UTILITY NOTES:

1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
2. WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (REF. UDACS 2.17.01.D).
3. GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 2.11.01.E.
4. ALL SEWER AND 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 CROSSING AND CLEARANCES.
5. ALL LOTS HAVE WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER PRESSURE EXCEEDS 80 PSI.
6. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
7. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
8. MAINTAIN MINIMUM 24" COVER PER UDACS 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

NOTES

1. PROTECT IN PLACE AND ADJUST LYVWD EXISTING. FACILITIES TO FINISH GRADE PER UDACS. ALL LYVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
2. DISPOSAL OF ASBESTOS CEMENT PIPE (ACP) SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

Southwest Gas Corporation
DATE: 7/10/19

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APPROVED FOR CONSTRUCTION

DESIGNED BY: DSHAD
CHECKED BY: BGD
DATE: 7/8/19
PROJECT NO.: 135931 DATE: 7-6-19

L18-02380 107Y5099

PROP. 12" WATERLINE - WESTCLIFF DR.

BLM 33

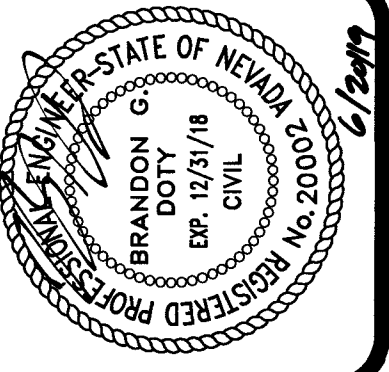
BY D.R. HORTON

NO.	DATE	DESCRIPTION
1	5/2/19	REVISED RETAINING WALLS, REVISED WATER MAIN DUE TO CONFLICTS, UPDATE STATIONS FOR WATERMAIN ELEVATIONS. ADDED NOTE TO REMOVE EX. SEWER STUB. ADDED DRY UTILITY PLANS.
2	7/8/19	REVISED RETAINING WALLS, REVISED WATER MAIN DUE TO CONFLICTS, UPDATE STATIONS FOR WATERMAIN ELEVATIONS. ADDED NOTE TO REMOVE EX. SEWER STUB. ADDED DRY UTILITY PLANS.

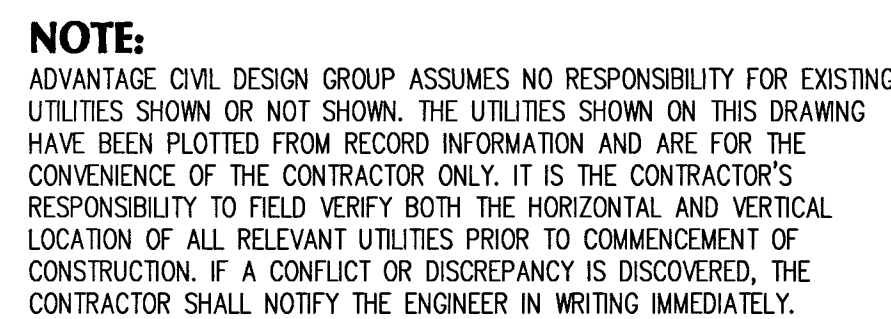
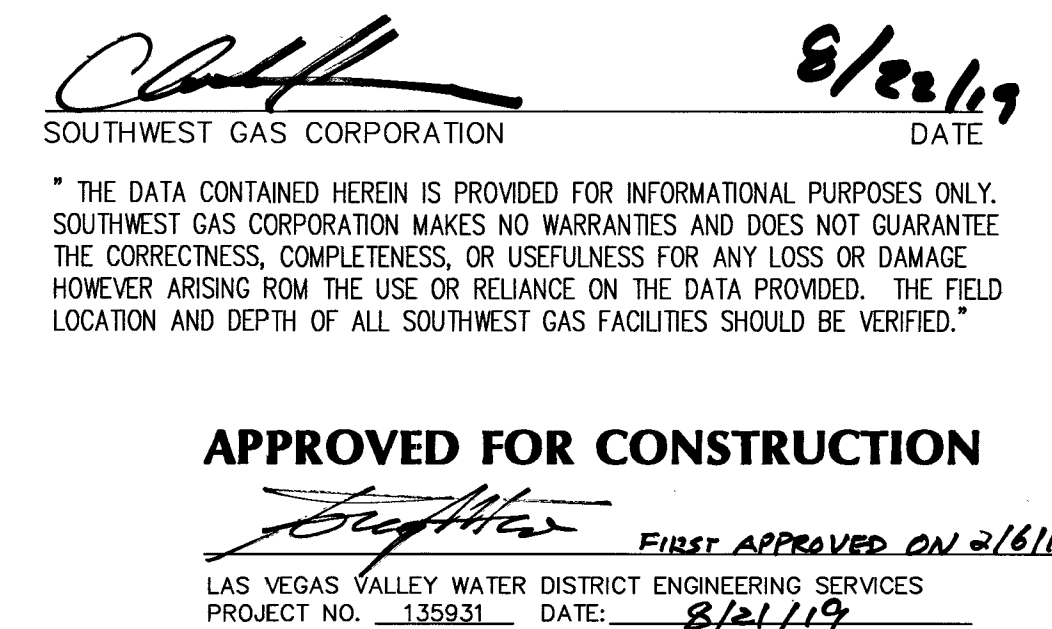
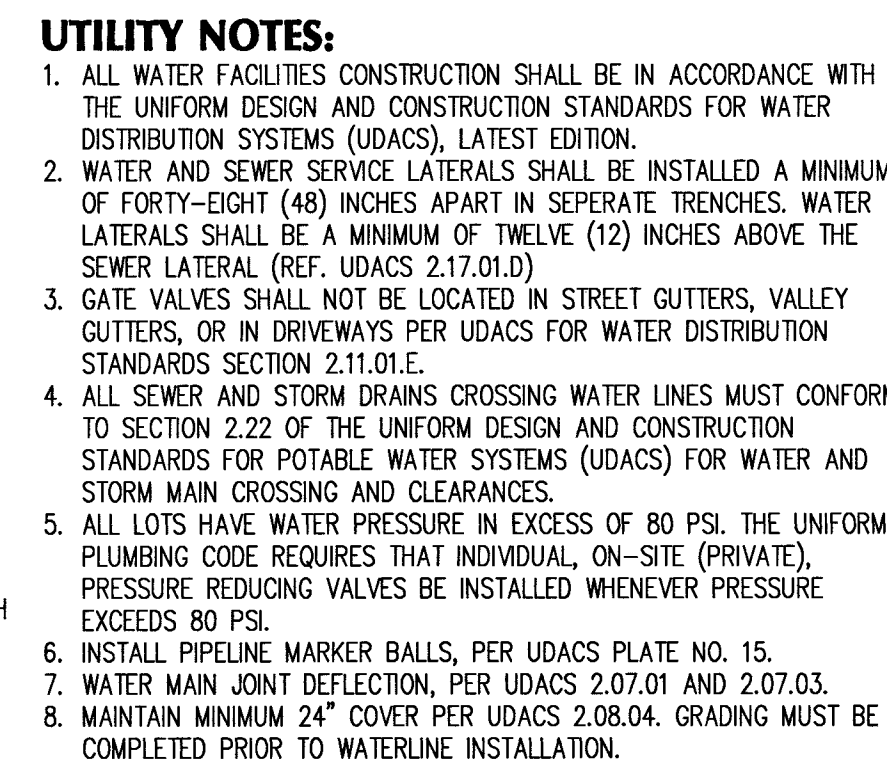
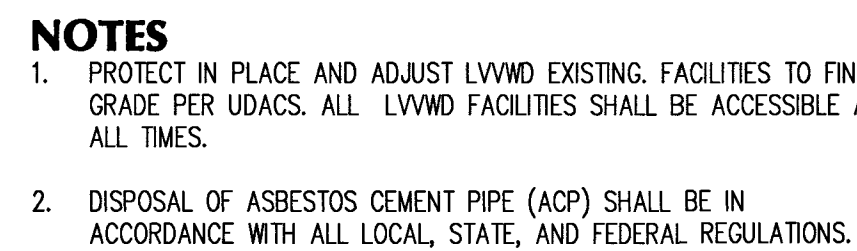
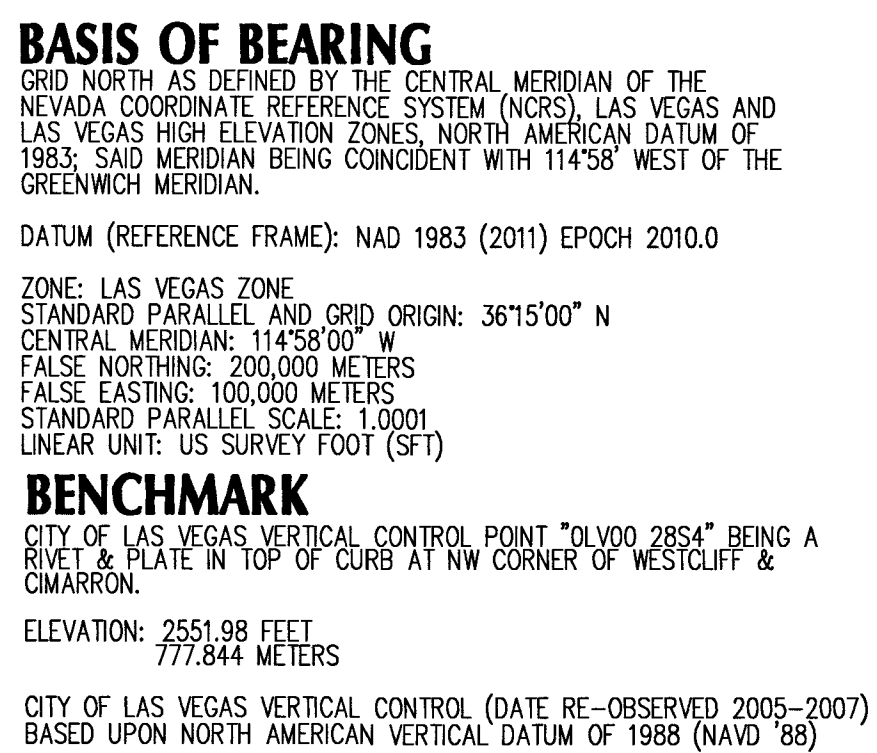
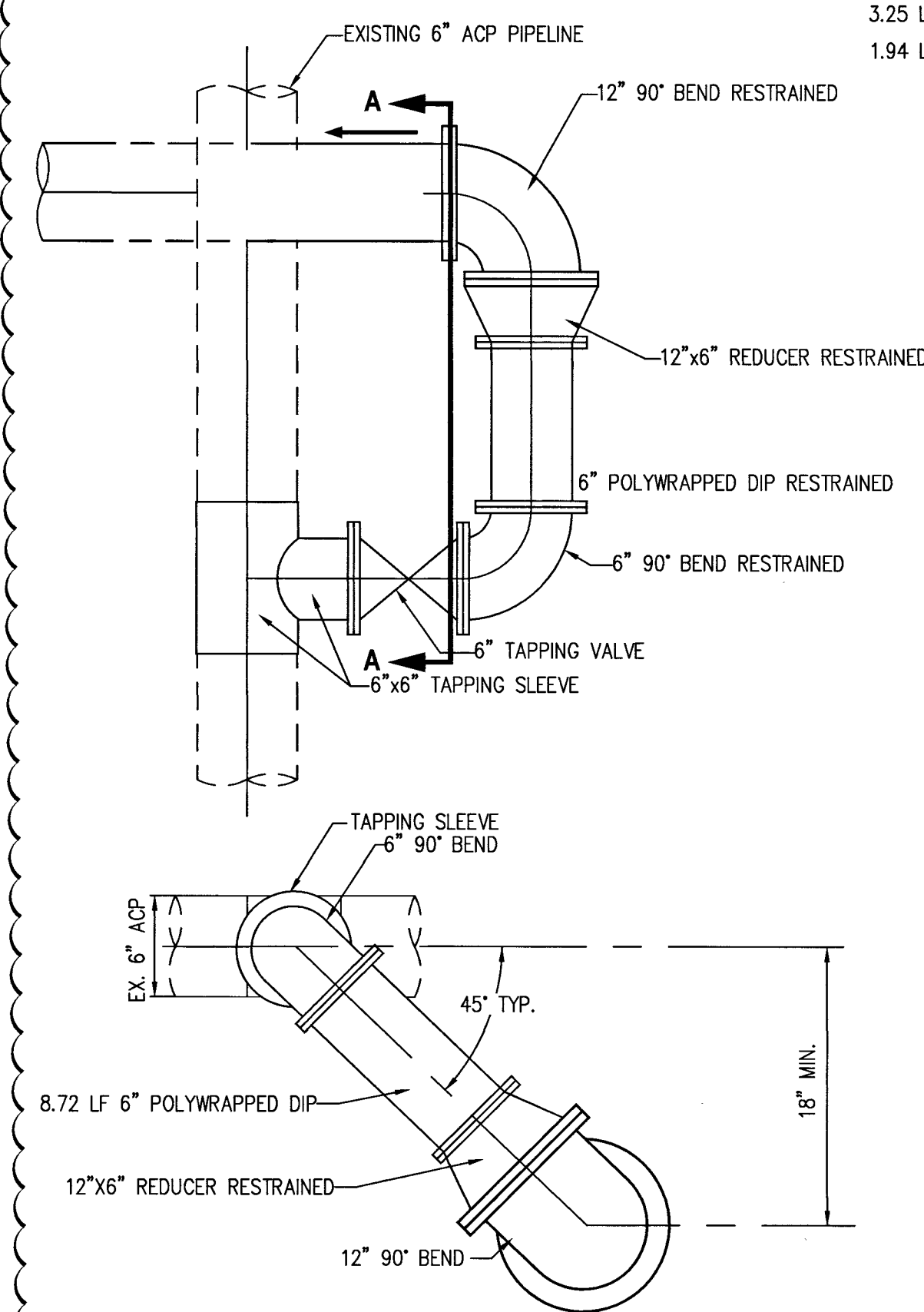
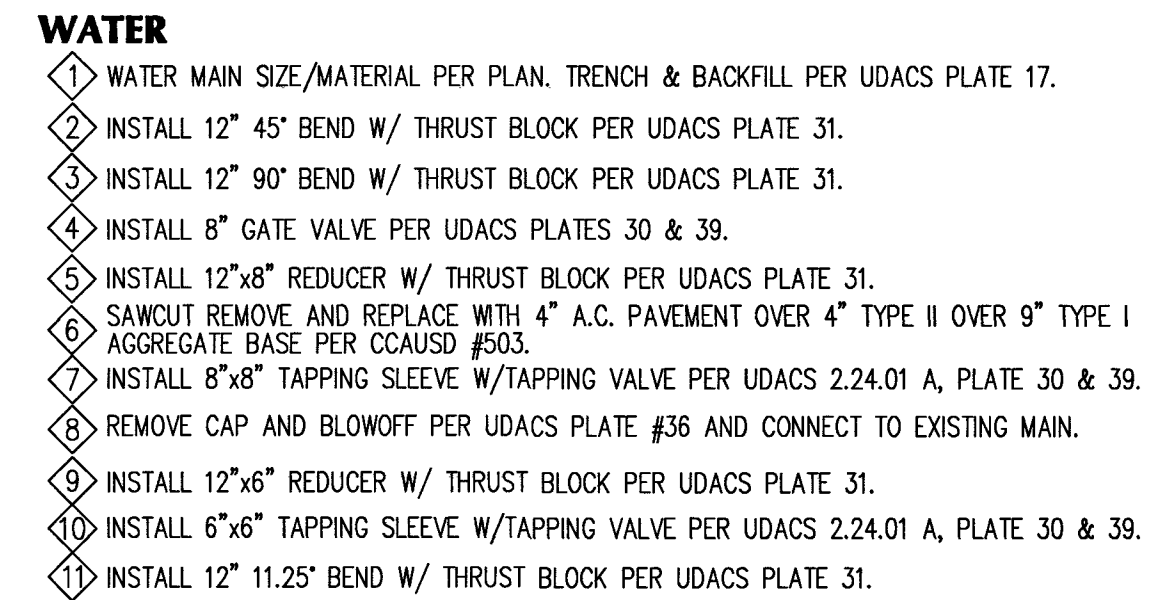
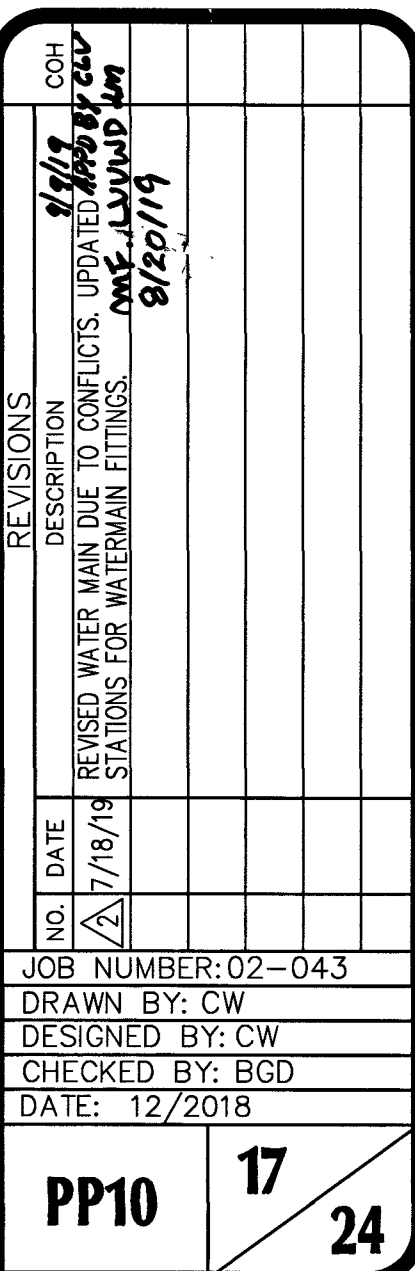
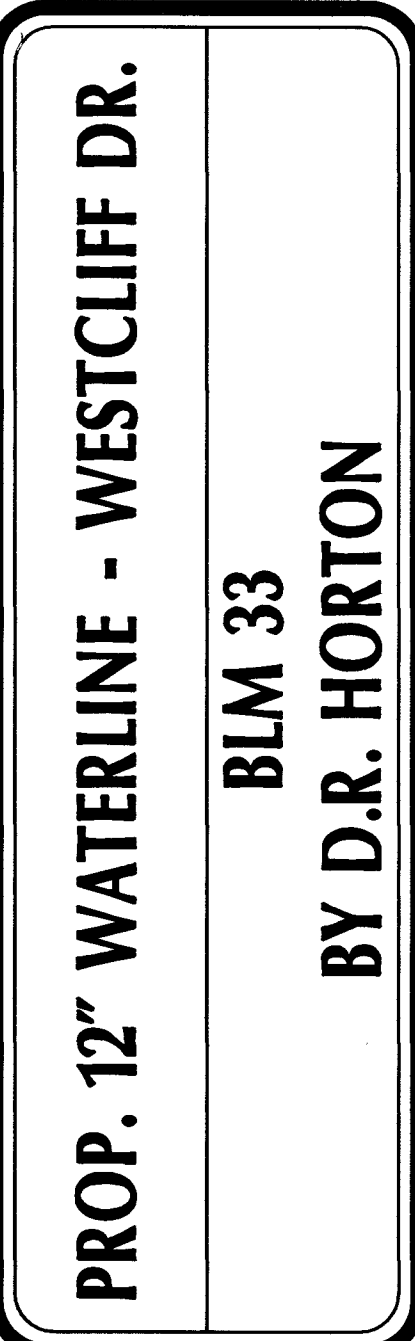
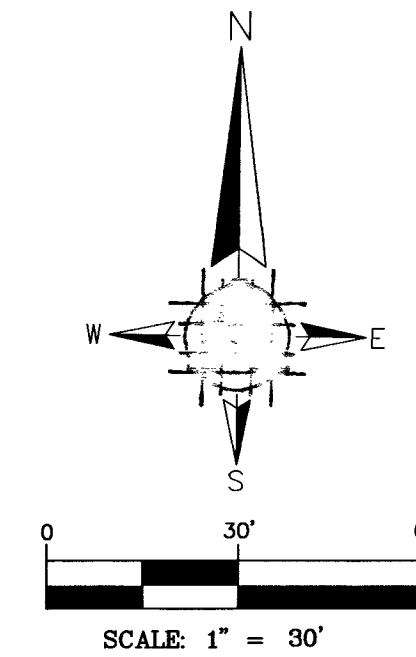
REVISIONS

JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/2018

PP9 16 24



ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY. BLDG. 4 STE # 422
HENDERSON, NEVADA 89014
Office: 702.452.2294
Fax: 702.456.2294
Email: WAH@ADVANTAGECIVIL-NEV.COM
CIVIL ENGINEERING CONSULTING
PLANNING





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Call 811
1-800-227-2600



BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS). LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING CONSIDERED WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL POINT "OLV00 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

ELEVATION: 2551.98 FEET
77.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN DATUM OF 1988 (NAD'88)

WATER MAIN JOINT DEFLECTION (PVC 4" - 24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET PER UDCS 2.07.01 AND 2.07.02.

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

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UTILITY NOTES:

- ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
- WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-FOUR (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (REF. UDCS 2.17.01.D)
- GATE VALVES SHALL NOT BE LOCATED IN STREET CUTTERS, VALLEY CUTTERS, OR IN DRIVEWAYS PER UDCS FOR WATER DISTRIBUTION STANDARDS SECTION 2.11.01.E.
- ALL SEWER AND 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 CROSSING AND CLEARANCES.
- ALL HOMES SHALL HAVE A FIRE SPRINKLER SYSTEM INSTALLED.
- ALL LOTS ON THIS PROPERTY HAVE A STATIC PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES BE INSTALLED WHEN EVER THE PRESSURE EXCEEDS 80 PSI. PRIVATE ARE THE DEVELOPERS RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.

NOTE:

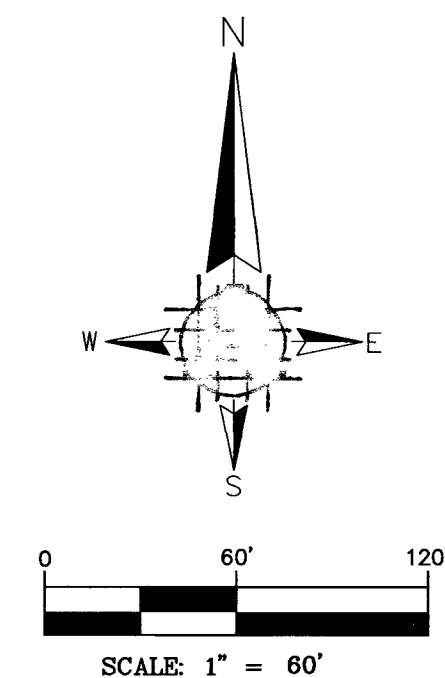
THIS PLAN IS FOR REFERENCE ONLY AND IS FOR CONVENIENCE OF THE CITY ENTITY REVIEWERS AND CONTRACTOR. PLEASE REFER TO THE UTILITY PLANS FOR ACTUAL CONSTRUCTION SPECIFICATIONS.

NOTE:

SEE UP1 - UP3 FOR CONSTRUCTION NOTE CALL OUTS.

NOTE:

SEE SHEET 2 FOR TOTAL PROJECT QUANTITIES AND GENERAL NOTES.



LEGEND

CENTER LINE	
RIGHT-OF-WAY	
PROPOSED WATER	C-900 W
PROPOSED WATER	CLASS 53 DIP W
PROPOSED SEWER	SDR-35 SS
EXISTING WATER	EX. WATER LINE
EXISTING SEWER	EX. SEWER LINE
EXISTING GAS	EX. GAS
PROPOSED SAWCUT	
EXISTING EDGE PWT	
SANITARY SEWER	SS
WATER	WAT
PRIVATE	PVT
INVERT	INV
ELEVATION	ELEV
MANHOLE	MH
BACKWATER VALVE	BWV
PRESSURE REDUCING VALVE	PRV
PRESSURE ZONE	PZ 2745

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS: 1,500 GPM AT 20 PSI RESIDUAL PRESSURE.

BASED ON
FOOTAGE: 3,120

LARGEST AREA BETWEEN
4-HOUR AREA SEPARATION
WALLS: N/A

BUILDING HEIGHT: <35'

NUMBER OF STORIES: 2

TYPE OF CONSTRUCTION: V-B

OCCUPANCY: R-3

FULL AUTOMATIC FIRE
SPRINKLER SYSTEM: YES

ESTIMATED SEWER CONTRIBUTION:

110 UNITS * 250 GPD/UNIT = 27,500 GPD
27,500 GPD = 0.0275 MGD
0.0275 MGD * 3.3 (PEAK FACTOR) = 0.09075 MGD
+ ADDITIONAL WET-WEATHER FLOW ALLOWANCE (25%)
= 0.11344 MGD

APPROVALS

1-31-19
SOUTHWEST GAS CORPORATION

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1-31-19
CITY OF LAS VEGAS FIRE DEPARTMENT

APPROVAL OF THESE PLANS SHALL NOT BE CONSIDERED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS.

APPROVED FOR CONSTRUCTION

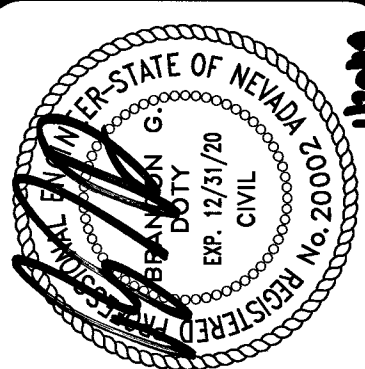
1-31-19
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 135831 DATE 01-31-19
LVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 26 GPM

L18-02380 107V5099

MASTER UTILITY PLAN

BLM 33

BY D.R. HORTON



ADVANTAGE CIVIL DESIGN GROUP, LLP
2970 N. GREEN VALLEY PKWY, BLDG. 4 STE. # 422
HENDERSON, NEVADA 89044
Office: 702.452.2254
Fax: 702.456.2254
Email: info@advantagecivil-nv.com
CONSULTING
CIVIL ENGINEERING

NO.	DATE	DESCRIPTION
1	01-31-19	ISSUED FOR PERMIT
2	01-31-19	ISSUED FOR CONSTRUCTION
3	01-31-19	ISSUED FOR CONSTRUCTION
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MUP

18

24

WESTCLIFF HEIGHTS UNIT NO.1
SUBDIVISION (CLV#307Y-3285-1)

BASIS OF BEARING
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

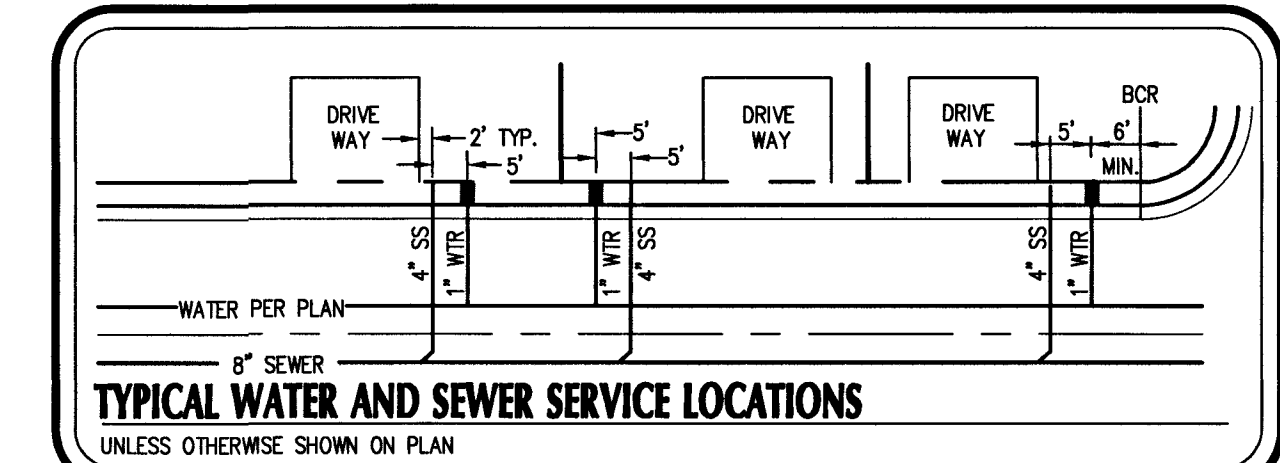
BENCHMARK
CITY OF LAS VEGAS VERTICAL CONTROL POINT "01V00 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

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

Call before you Dig
1-800-227-2600



NOTE:
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- WATER**
1. INSTALL C-900 PVC, SIZE PER PLAN.
 2. INSTALL 8" 11.25" BEND W/ THRUST BLOCK PER UDACS PLATE 31.
 3. INSTALL 8" 22.5" BEND W/ THRUST BLOCK PER UDACS PLATE 31.
 4. INSTALL 8" 45" BEND W/ THRUST BLOCK PER UDACS PLATE 31.
 5. INSTALL 8" 90" BEND W/ THRUST BLOCK PER UDACS PLATE 31.
 6. INSTALL 3" WIDE CONCRETE PAD FOR RPPA TO COMPLETELY COVER WATER LATERAL BETWEEN METER AND RPPA.
 7. INSTALL 8"x8" TEE W/ THRUST BLOCK PER UDACS PLATE 31.
 8. INSTALL 8" GATE VALVE PER UDACS PLATES 30 & 39.
 9. INSTALL 8" WET TAP PER UDACS PLATES 34 & 35.
 10. STUB & CAP W/ 2" BLOW OFF ASSEMBLY PER UDACS PLATE 36.
 11. INSTALL PVC TO D.I.P. COUPLER.
 12. INSTALL STEEL ENCASED DOUBLE WRAPPED CLASS 53 DIP PER UDACS PLATE #23, SIZE PER PLAN, TRENCH & BACKFILL PER UDACS PLATE 17.
 13. INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE 40 AND DETAIL THIS SHEET. INCLUDE ALL VALVES, TEES, THRUST BLOCKS & APPURTENANCES.
 14. INSTALL 3/4" METER PER UDACS PLATE #1.
 15. INSTALL 3/4" METER (PUBLIC) PER UDACS PLATE 1 W/ 1" RPPA (PRIVATE) PER UDACS PLATE 8, SEE DETAIL 7, SHEET DT2.
 16. INSTALL LOCATOR RIBBON PER UDACS 2.17.01B.
 17. INSTALL TYPE "C" TESTING STATION PER "S" ON SHEET DE2.
 18. INSTALL CLASS 53 DIP, SIZE PER PLAN. TRENCH & BACKFILL PER UDACS PLATE 17.
 19. INSTALL 8"x6" REDUCER W/ THRUST BLOCK PER UDACS PLATE 30.
 20. CONTRACTOR TO CONNECT TO EXISTING 12" WATER LINE WITH A 12"x8" TAPPING SLEEVE VALVE PER UDACS PLATE 24 & 39, UDACS SECTION 2.24.01A.
 21. REMOVE CAP AND BLOW OFF PER UDACS PLATE 36 AND CONNECT TO EXISTING MAIN.
 22. INSTALL 12"x8" REDUCER PER UDACS PLATE 30.
- SEWER**
1. INSTALL SEWER MANHOLE PER DCSWCS SD-7.
 2. SEWER MAIN SIZE/MATERIAL PER PLAN, TRENCH & BACKFILL PER DCSWCS SD-17.
 3. INSTALL 48" TYPE I SANITARY SEWER MANHOLE PER DCSWCS SD-1A & SD-4, WITH SINGLE 24" LID.
 4. INSTALL 4" SDR-35 SEWER LATERAL & WYE PER DCSWCS SD-22.
 5. ABANDON EXISTING MANHOLES AND SEWER MAINS PER DCSWCS SECTION 3.18, METHOD 3.18.1 B OR C, AND METHOD 3.18.2 A.
 6. INSTALL SHALLOW MANHOLE PER DCSWCS DWG SD-13, TYPE "A" SHORTY CONE.
 7. CONTRACTOR TO INSTALL A MINIMUM OF 4" THICK REINFORCED CONCRETE ENCASEMENT PER DCSWCS STD DWGS SD-14.
 8. INSTALL 4" C-900 SEWER LATERAL & WYE PER DCSWCS SD-22 AND UDACS 2.22.02.B.3.0.
 9. SAWCUT, REMOVE AND REPLACE PAVEMENT PER CCAUSD #500.4.

NOTE:
SEE SHEETS NTS FOR TOTAL PROJECT QUANTITIES AND GENERAL NOTES.

TO INSURE LLVWD ACCESS WITHIN EASEMENT
ALL ABOVE GROUND OBSTRUCTION INCLUDING BUT NOT LIMITED TO, LANDSCAPE, BOULDER, FENCES/WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN THE ESMT.

NOTE:
ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.06 AND 19.08.

UTILITY NOTES:

1. FIRE SPRINKLER SYSTEMS SHALL BE PLUMBED TO THE MASTER TOILET. NO EXCEPTION ALLOWED.
2. ALL LOTS ON THIS PROPERTY HAVE A STATIC PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES BE INSTALLED WHEN EVER THE PRESSURE EXCEEDS 80 PSI. PRIVATE ARE THE DEVELOPERS RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LLVWD FACILITIES.
3. ALL SERVICES STATIONED AT R/W.
4. P.O.S.T. P.I. = POINT ON SUBTANTANT PAST POINT OF INTERSECTION ALONG THE SAME BEARING.

SECTION VIEW
SEE UDACS PLATE NO. 40
CONDITION C
FIRE HYDRANT LOCATION
DETAIL WHERE ATTACHED
SIDEWALK OCCURS
NOT TO SCALE

APPROVALS

CITY OF LAS VEGAS FIRE DEPARTMENT
7-2-19
DATE

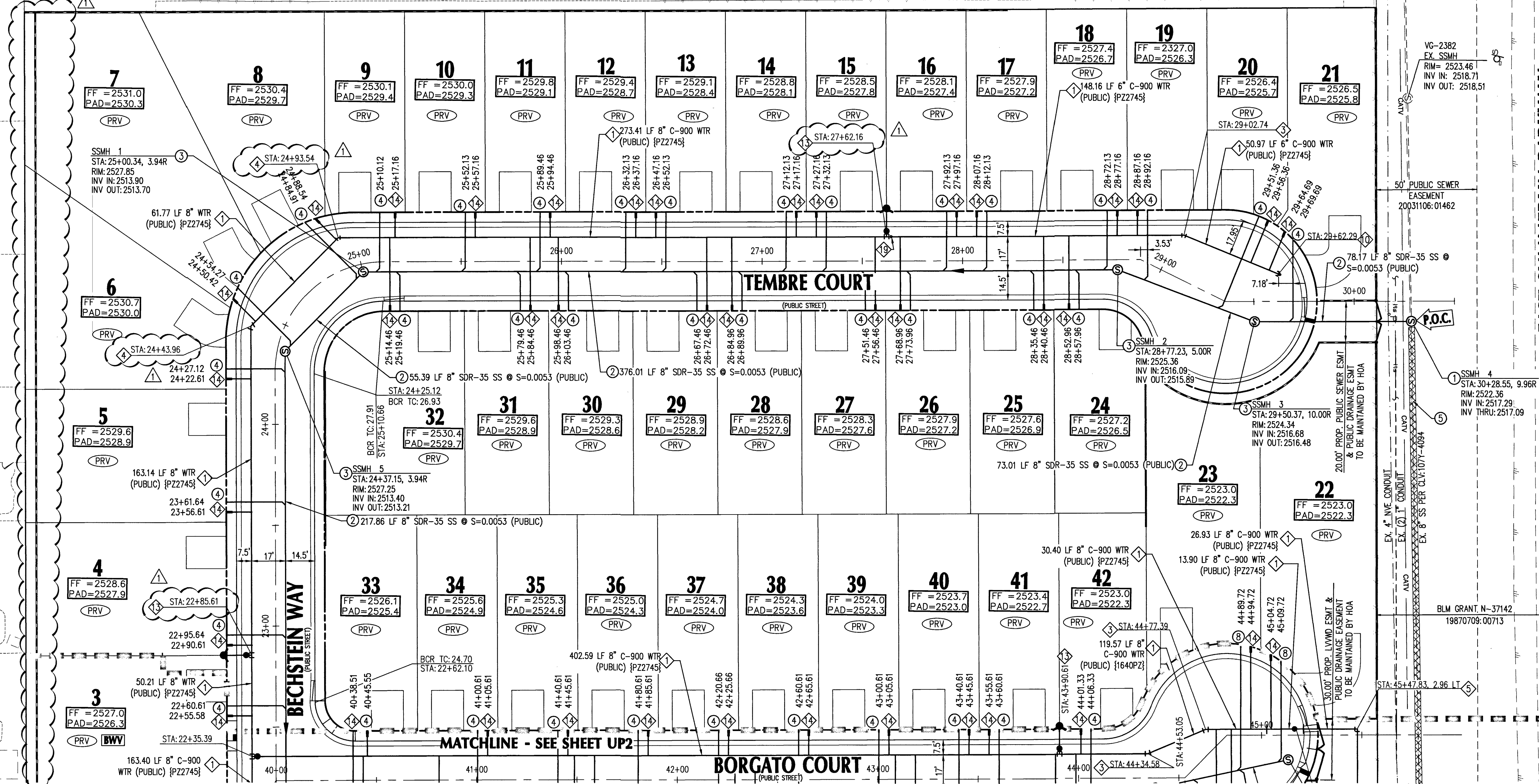
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW 1500 GPM AT 20 P.S.I. RESIDUAL.

APPROVED FOR CONSTRUCTION
7/8/19
DATE

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931 DATE: 2-6-19
LVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 26 GPM
L18-02380 1075099

NO.	DATE	REVISIONS	DESCRIPTION
1	5/2/19	REVISED RETAINING WALLS, REUSED WATER MAIN DUE TO CONFLICTS, UPDATE STATIONS FOR WATERMAIN FITTINGS, ADDED NOTE TO REMOVE EX SEWER STUB, ADDED DRY UTILITY PLANS.	
JOB NUMBER: 02-043			DRAWN BY: CW
DESIGNED BY: CW			CHECKED BY: BGD
DATE: 12/2018			
UP1			19
			24

LA MANCHA OESTE
(CLV#107Y-4094)



- LEGEND**
- CENTER LINE
RIGHT-OF-WAY
PROPOSED WATER
PROPOSED SEWER
EXISTING WATER
EXISTING SEWER
EXISTING GAS
PROPOSED SAWCUT
EXISTING EDGE PAVT
SANITARY SEWER
WATER
PRIVATE
INVERT
ELEVATION
MANHOLE
BACKWATER VALVE
PRESSURE REDUCING VALVE
- PVC W
PVC SS
EX. WATER LINE
EX. SEWER LINE
EX. GAS
SS
WAT
PVT
INV
ELEV
MH
BWV
PRV

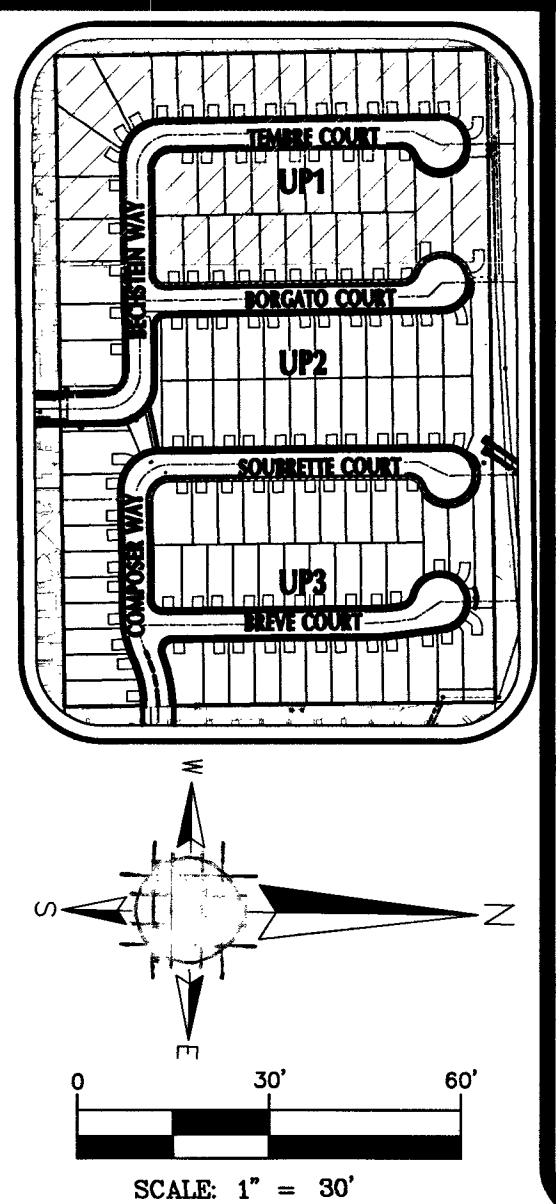
FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS: 1,500 GPM AT 20 PSI RESIDUAL PRESSURE.

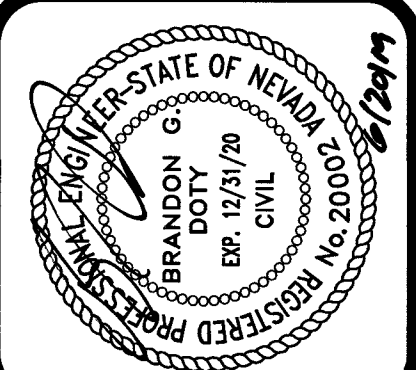
BASED ON
SQUARE FOOTAGE: 3,120 SF

LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:
BUILDING HEIGHT:
NUMBER OF STORIES:
TYPE OF CONSTRUCTION:
OCCUPANCY:
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:

N/A
SF
FEET
2
V-B
R-3
YES

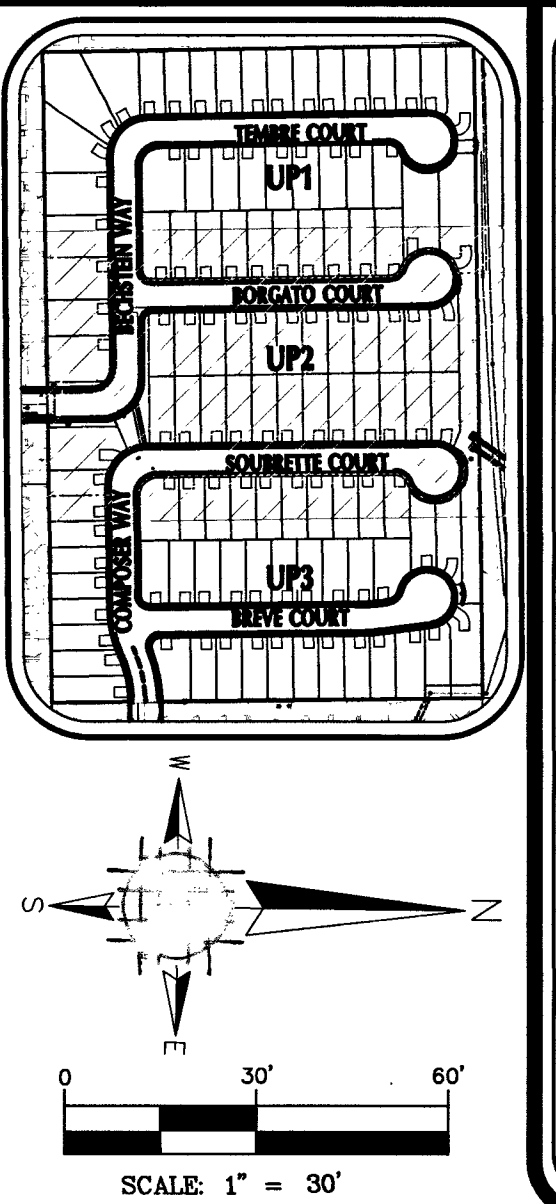
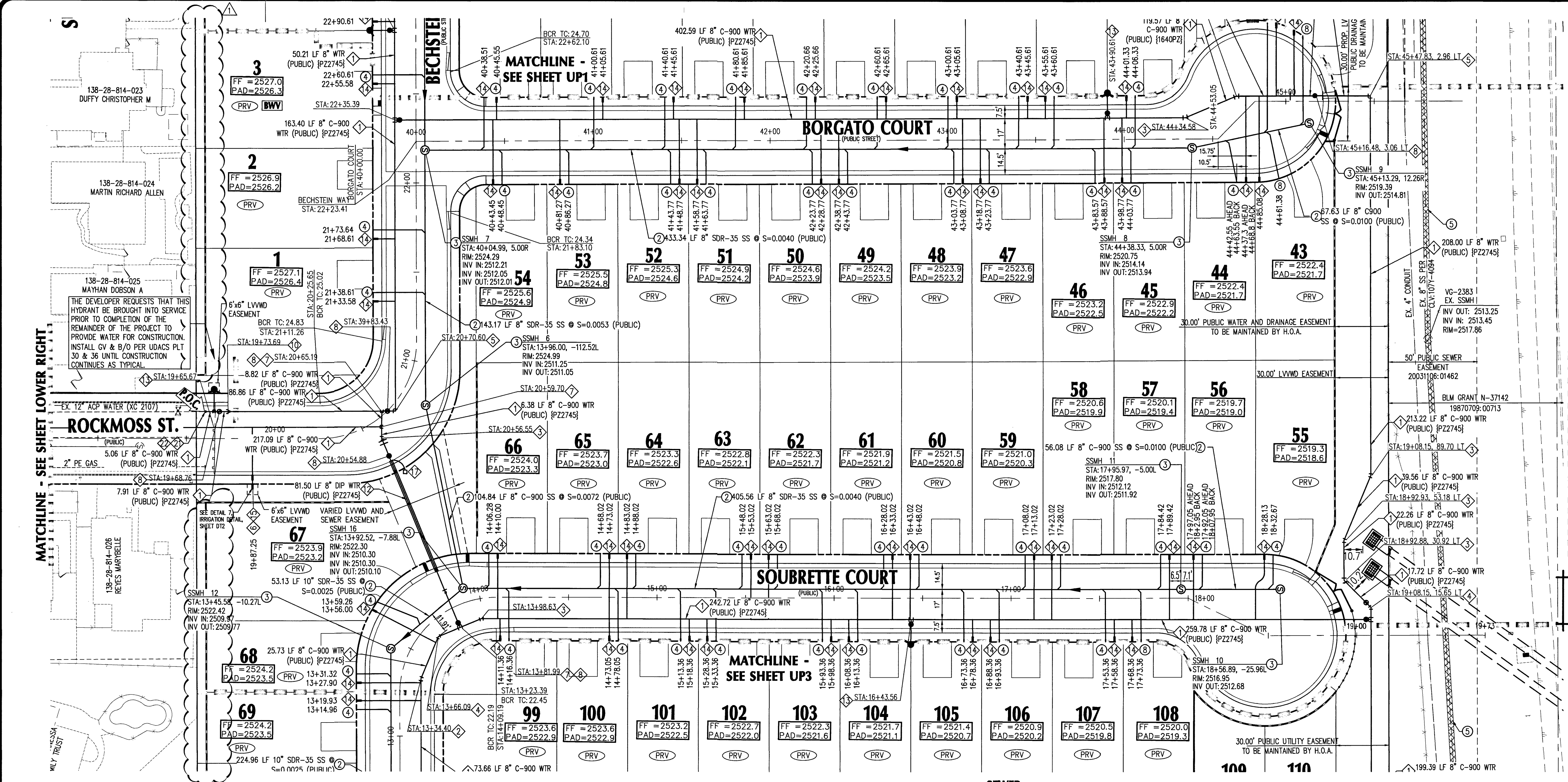


ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY FRY RD. 4 STE # 422
HENDERSON, NEVADA 89014
Office: 702.432.2294
Fax: 702.436.2294
Email: MAIL@ADVANTAGECIVIL-LLP.COM
CONSULTING
CIVIL ENGINEERING
PLANNING



UTILITY PLAN 1
BLM 33
BY D.R. HORTON

PROJ# 135931A QS-138-28-5E



LEGEND

CENTER LINE	
RIGHT-OF-WAY	
PROPOSED WATER	PVC W
PROPOSED SEWER	PVC SS
EXISTING WATER	EX. WATER LINE
EXISTING SEWER	EX. SEWER LINE
EXISTING GAS	EX. GAS
PROPOSED SAWCUT	
EXISTING EDGE PAVT	
SANITARY SEWER	SS
WATER	WAT
PRIVATE	PVT
INVERT	INV
ELEVATION	ELEV
MANHOLE	MH
BACKWATER VALVE	BWV
PRESSURE REDUCING VALVE	PRV

NOTE:
SEE SHEETS NTS FOR TOTAL PROJECT QUANTITIES AND GENERAL NOTES.

BASIS OF BEARING
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS). LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK
CITY OF LAS VEGAS VERTICAL CONTROL POINT "OLV02 28S4" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

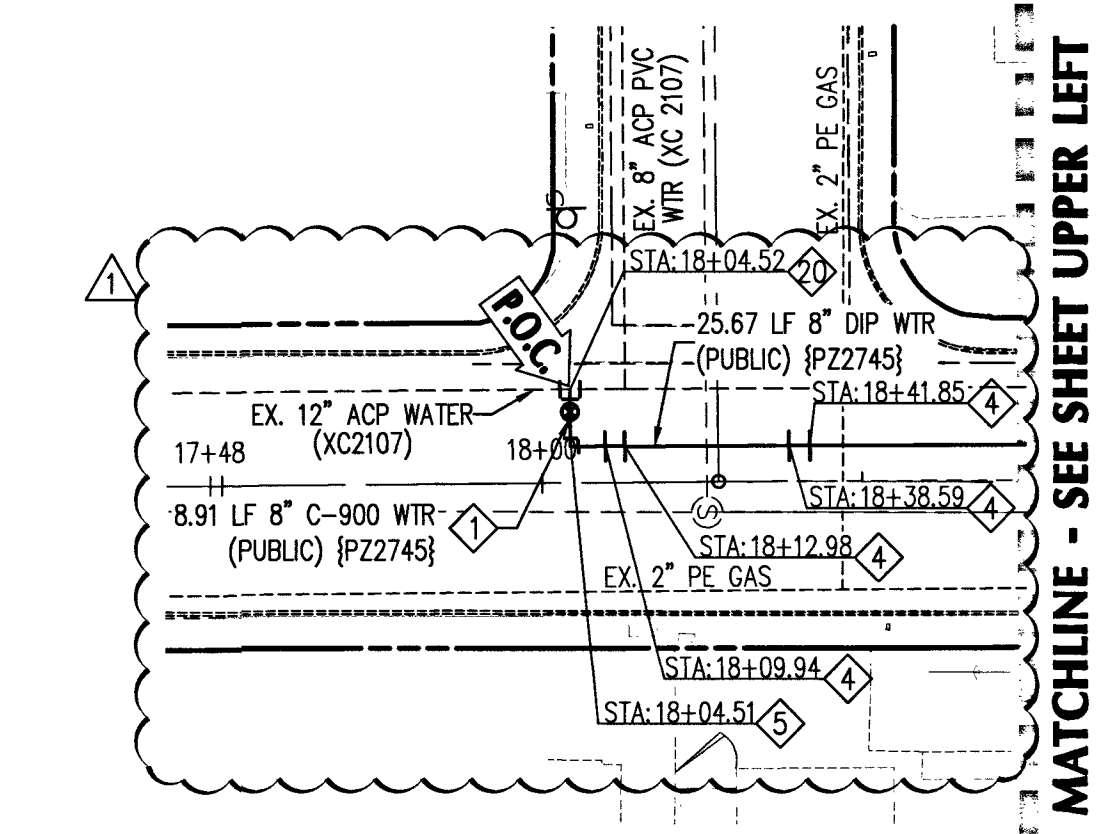
ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

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

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

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



- WATER**
- 1. INSTALL C-900 PVC, SIZE PER PLAN.
 - 2. INSTALL 8" 11.25' BEND W/ THRUST BLOCK PER UDACS PLATE 31.
 - 3. INSTALL 8" 22.5' BEND W/ THRUST BLOCK PER UDACS PLATE 31.
 - 4. INSTALL 8" 45' BEND W/ THRUST BLOCK PER UDACS PLATE 31.
 - 5. INSTALL 8" 90' BEND W/ THRUST BLOCK PER UDACS PLATE 31.
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 - 14. INSTALL 3/4" METER PER UDACS PLATE #1.
 - 15. INSTALL 3/4" METER (PUBLIC) PER UDACS PLATE 1 W/ 1" RPPA (PRIVATE) PER UDACS PLATE 8, SEE DETAIL 7, SHEET D12.
 - 16. INSTALL LOCATOR RIBBON PER UDACS 2.17.01B.
 - 17. INSTALL TYPE 'C' TESTING STATION PER 'S' ON SHEET D2.
 - 18. INSTALL CLASS 53 DIP, SIZE PER PLAN. TRENCH & BACKFILL PER UDACS PLATE 17.
 - 19. INSTALL 8"x6" REDUCER W/ THRUST BLOCK PER UDACS PLATE 30.
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- 1. INSTALL SEWER MANHOLE PER DCSWCS SD7.
 - 2. SEWER MAIN SIZE/MATERIAL PER PLAN. TRENCH & BACKFILL PER DCSWCS SD-17.
 - 3. INSTALL 48" TYPE 1 SANITARY SEWER MANHOLE PER DCSWCS SD-1A & SD-4, WITH SINGLE 24" LID.
 - 4. INSTALL 4" SDR-35 SEWER LATERAL & WYE PER DCSWCS SD-22.
 - 5. ABANDON EXISTING MANHOLES AND SEWER MAINS PER DCSWCS SECTION 3.18, METHOD 3.18.1 B OR C, AND METHOD 3.18.2 A.
 - 6. INSTALL SHALLOW MANHOLE PER DCSWCS DWG SD-13, TYPE "A" SHORTY CONE.
 - 7. CONTRACTOR TO INSTALL A MINIMUM OF 4" THICK REINFORCED CONCRETE ENCASEMENT PER DCSWCS STD DWGS SD-14.
 - 8. INSTALL 4" C-900 SEWER LATERAL & WYE PER DCSWCS SD-22 AND UDACS 2.22.02.B.3.d
 - 9. SAWCUT, REMOVE AND REPLACE PAVEMENT PER CCAUSD #500.4.
- UTILITY NOTES:**
- 1. FIRE SPRINKLER SYSTEMS SHALL BE PLUMBED TO THE MASTER TOILET. NO EXCEPTION ALLOWED.
 - 2. ALL LOTS ON THIS PROPERTY HAVE A STATIC PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES BE INSTALLED WHEN EVER THE PRESSURE EXCEEDS 80 PSI. PRV ARE THE DEVELOPERS RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LLVWD FACILITIES.
 - 3. ALL SERVICES STATIONED AT R/W.
 - 4. P.O.S.T. P.I. = POINT ON SUBTANGENT PAST POINT OF INTERSECTION ALONG THE SAME BEARING.
- TO INSURE LLVWD ACCESS WITHIN EASEMENT**
- ALL ABOVE GROUND OBSTRUCTION INCLUDING BUT NOT LIMITED TO, LANDSCAPE, BOULDER, FENCES/WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN THE ESMT.
- NOTE:**
ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.06 AND 19.08.

- SEWER**
- 1. INSTALL SEWER MANHOLE PER DCSWCS SD7.
 - 2. SEWER MAIN SIZE/MATERIAL PER PLAN. TRENCH & BACKFILL PER DCSWCS SD-17.
 - 3. INSTALL 48" TYPE 1 SANITARY SEWER MANHOLE PER DCSWCS SD-1A & SD-4, WITH SINGLE 24" LID.
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NOTE:
ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.06 AND 19.08.

APPROVALS

[Signature] DATE 7/10/19
SOUTHWEST GAS CORPORATION

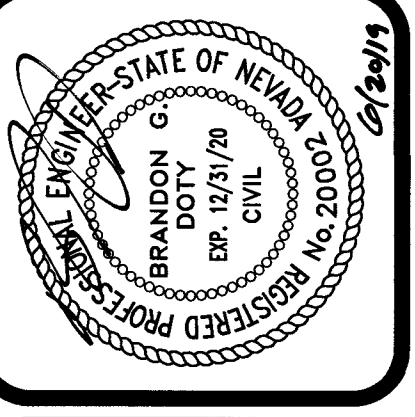
[Signature] DATE 7-2-19
CITY OF LAS VEGAS FIRE DEPARTMENT

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW 1500 GPM AT 20 P.S.I. RESIDUAL.

APPROVED FOR CONSTRUCTION

[Signature] DATE 7/10/19
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 138931, DATE 2-2-19
DESIGNED BY: BGD
CHECKED BY: BGD
DATE: 12/2018
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 26 GPM

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY, BLDG. 4 STE # 422
HENDERSON, NEVADA 89014
Office: 702.452.2294
Fax: 702.456.2294
Email: info@advantagecivil.com
CONSULTING
CIVIL ENGINEERING
PLANNING



UTILITY PLAN 2
BLM 33
BY D.R. HORTON

NO.	DATE	DESCRIPTION	COH
1	5/2/19	REVISED RETAINING WALLS, REVISED WATER MAIN DUE TO CONFLICTS, UPDATE STATIONS FOR WATERMAIN FITTINGS.	
2		ADDED NOTE TO REMOVE EX. SEWER STUB. ADDED DRY UTILITY PLANS.	

JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: BGD
CHECKED BY: BGD
DATE: 12/2018

UP2 20 24

PROJ#: 138931A QS:138-28-28

RED ROCK HEIGHTS SUBDIVISION
(CLV#107Y-3285)

BASIS OF BEARING
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE
NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND
LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF
1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE
GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK
CITY OF LAS VEGAS VERTICAL CONTROL POINT "01000 2854" BEING A RIVET &
PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

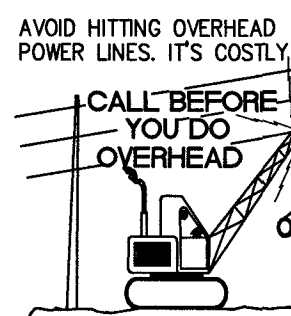
ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)



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

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



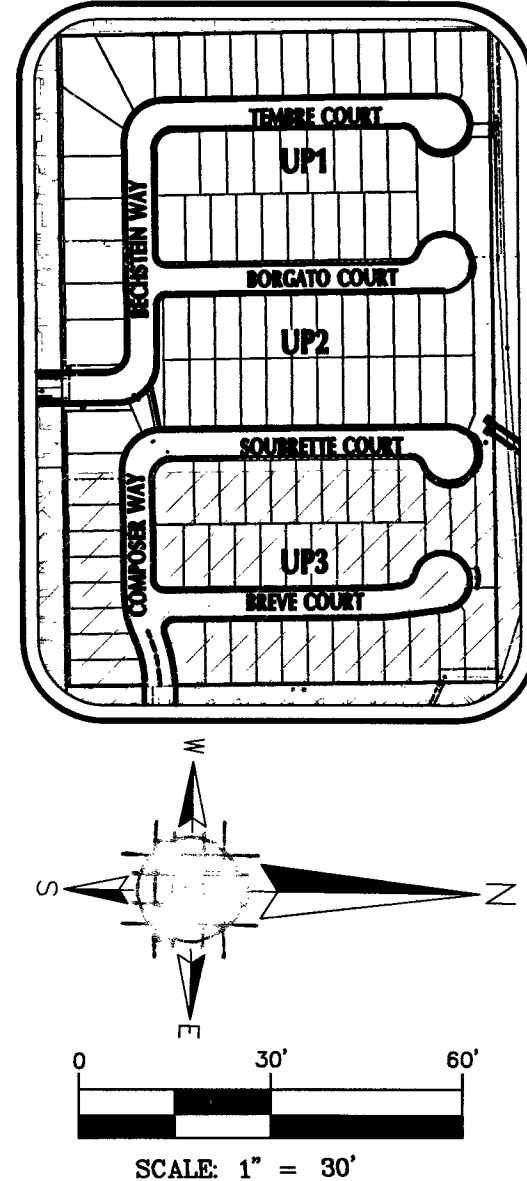
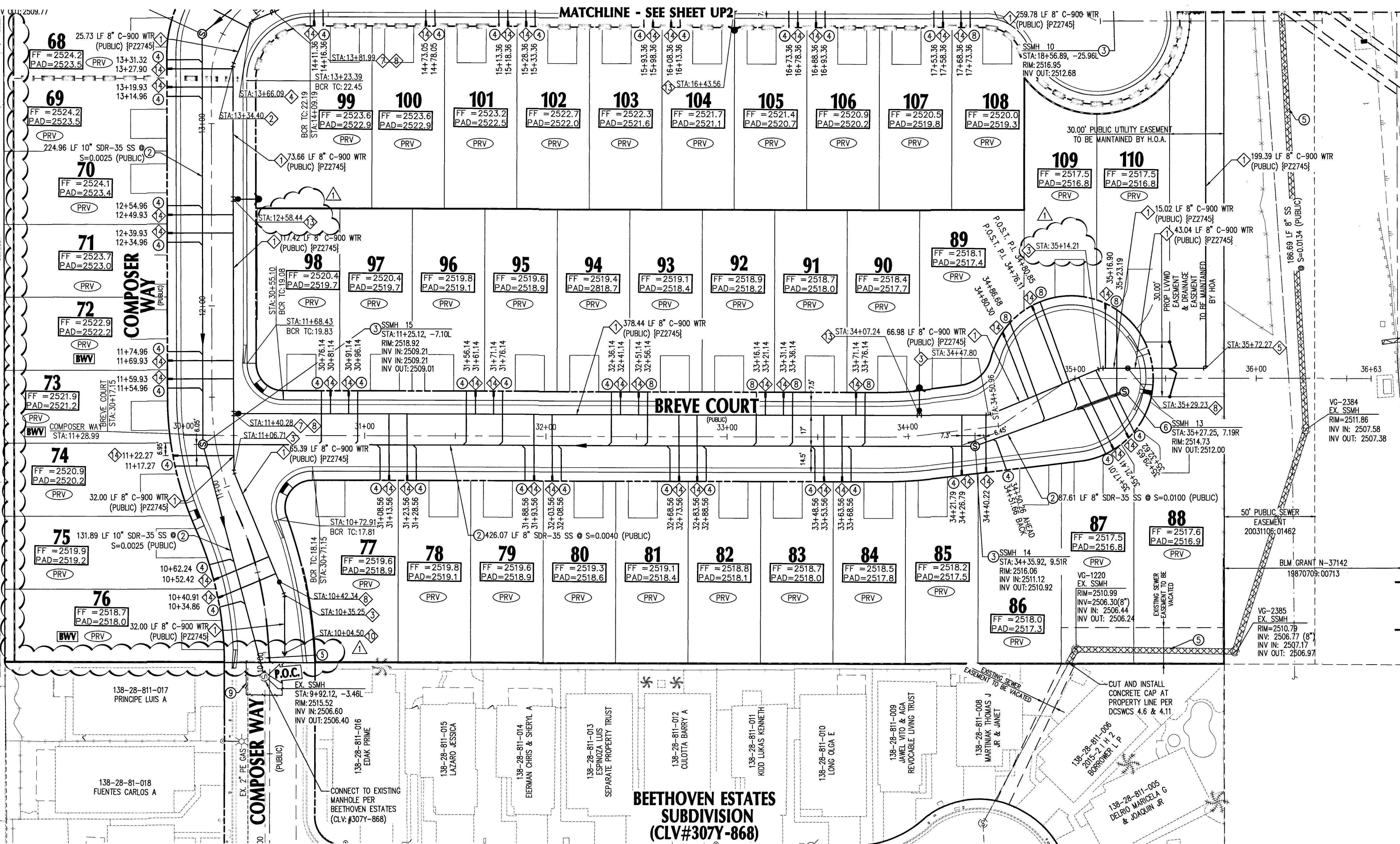
NOTE:

ADVANTAGE CIVIL DESIGN GROUP 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 BOTH THE HORIZONTAL AND VERTICAL LOCATION 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.

TO INSURE LLVWD ACCESS WITHIN EASEMENT

ALL ABOVE GROUND OBSTRUCTION INCLUDING BUT NOT LIMITED TO, LANDSCAPE BOULDER, FENCES/WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN THE ESMT.

MATCHLINE - SEE SHEET UP2

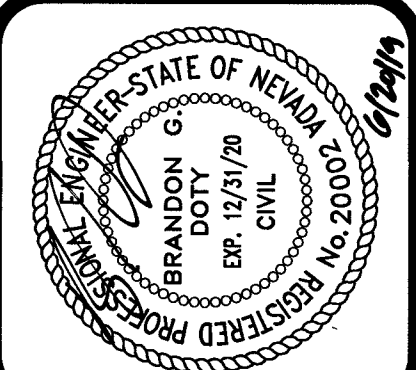


LEGEND

CENTER LINE	
RIGHT-OF-WAY	
PROPOSED WATER	PVC W
PROPOSED SEWER	PVC SS
EXISTING WATER	EX. WATER LINE
EXISTING SEWER	EX. SEWER LINE
EXISTING GAS	EX. GAS
EXISTING SAWCUT	
EXISTING EDGE PAVT	
SANITARY SEWER	SS
WATER	WAT
PRIVATE	PVT
INVERT	INV
ELEVATION	ELEV
MANHOLE	MH
BACKWATER VALVE	BWV
PRESSURE REDUCING VALVE	PRV

NOTE:
SEE SHEETS NTS FOR TOTAL PROJECT QUANTITIES AND GENERAL NOTES.

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY FRY RD., 4 STE # 422
HENDERSON, NEVADA 89014
Office: 702.452.2224
Fax: 702.456.2224
Email: MAIL@ADVANTAGECIVIL-LLP.COM
CIVIL ENGINEERING
PLANNING



UTILITY PLAN 3
BLM 33
BY D.R. HORTON

WATER

1. INSTALL C-900 PVC, SIZE PER PLAN.
2. INSTALL 8" 11.25' BEND W/ THRUST BLOCK PER UDACS PLATE 31.
3. INSTALL 8" 22.5' BEND W/ THRUST BLOCK PER UDACS PLATE 31.
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4. INSTALL 4" SDR-35 SEWER LATERAL & WYE PER DCSWCS SD-22.
5. ABANDON EXISTING MANHOLES AND SEWER MAINS PER DCSWCS SECTION 3.18, METHOD 3.18.1 B OR C, AND METHOD 3.18.2 A.
6. INSTALL SHALLOW MANHOLE PER DCSWCS DWG SD-13, TYPE "A" SHORTY CONE.
7. CONTRACTOR TO INSTALL A MINIMUM OF 4" THICK REINFORCED CONCRETE ENCASUREMENT PER DCSWCS STD DWGS SD-14.
8. INSTALL 4" C-900 SEWER LATERAL & WYE PER DCSWCS SD-22 AND UDACS 2.22.02.B.3.a
9. SAWCUT, REMOVE AND REPLACE PAVEMENT PER CCAUSD #500.4.

UTILITY NOTES:

1. FIRE SPRINKLER SYSTEMS SHALL BE PLUMBED TO THE MASTER TOILET. NO EXCEPTION ALLOWED.
2. ALL LOTS ON THIS PROPERTY HAVE A STATIC PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES BE INSTALLED WHEN EVER THE PRESSURE EXCEEDS 80 PSI. PRV ARE THE DEVELOPERS RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LLVWD FACILITIES.
3. ALL SERVICES STATIONED AT R/W.
4. P.O.S.T. P.I. = POINT ON SUBTANGENT PAST POINT OF INTERSECTION ALONG THE SAME BEARING.

NOTE:

ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.06 AND 19.08.

APPROVALS

[Signature] 7/10/19
SOUTHWEST GAS CORPORATION DATE

[Signature] 7-2-19
CITY OF LAS VEGAS FIRE DEPARTMENT DATE

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW 1500 GPM AT 20 P.S.I. RESIDUAL.

APPROVED FOR CONSTRUCTION

[Signature] 7/8/19
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135921, DATE: 7/8/19
LYVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 26 GPM

NO.	DATE	REVISIONS
1	5/2/19	REVISED RETAINING WALLS, PERCEIVED WATER MAIN DUE TO CONFLICTS, UPDATE STATIONS FOR WATERMAIN FITTINGS, ADDED NOTE TO REMOVE EX-SEWER STUB, ADDED DRY UTILITY PLANS.
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WESTCLIFF HEIGHTS UNIT NO.1
SUBDIVISION (CLV#307Y-3285-1)

BASIS OF BEARING
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK
CITY OF LAS VEGAS VERTICAL CONTROL POINT "01V00.2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

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

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



EXISTING SP-1, PRIVATE CIRCUIT "A"				EXISTING SP-2, PRIVATE CIRCUIT "A"			
SERVICE POINT CAPACITY	=	60	AMPS	SERVICE POINT CAPACITY	=	60	AMPS
MAXIMUM ALLOWABLE DRAW (.80) x 60 AMPS	=	48	AMPS	MAXIMUM ALLOWABLE DRAW (.80) x 60 AMPS	=	48	AMPS
EXISTING CIRCUIT LOAD	=	31	AMPS	EXISTING CIRCUIT LOAD	=	7	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT (INDUCTION LIGHTS)				PROPOSED LUMINAIRE LOAD TO CIRCUIT (INDUCTION LIGHTS)			
(10) NUMBER OF 100 WATTS @ 1.00 AMPS	=	10	AMPS	(8) NUMBER OF 100 WATTS @ 1.00 AMPS	=	8	AMPS
(0) NUMBER OF 150 WATTS @ 1.25 AMPS	=	0	AMPS	(0) NUMBER OF 150 WATTS @ 1.25 AMPS	=	0	AMPS
(0) NUMBER OF 250 WATTS @ 1.5 AMPS	=	0	AMPS	(0) NUMBER OF 250 WATTS @ 1.5 AMPS	=	0	AMPS
(0) NUMBER OF 400 WATTS @ 3.9 AMPS	=	0	AMPS	(0) NUMBER OF 400 WATTS @ 3.9 AMPS	=	0	AMPS
TOTAL PROPOSED LOAD	=	10	AMPS	TOTAL PROPOSED LOAD	=	8	AMPS
EXISTING PLUS PROPOSED LOAD	=	41	AMPS	EXISTING PLUS PROPOSED LOAD	=	15	AMPS
REMAINING AVAILABLE LOAD	=	7	AMPS	REMAINING AVAILABLE LOAD	=	33	AMPS

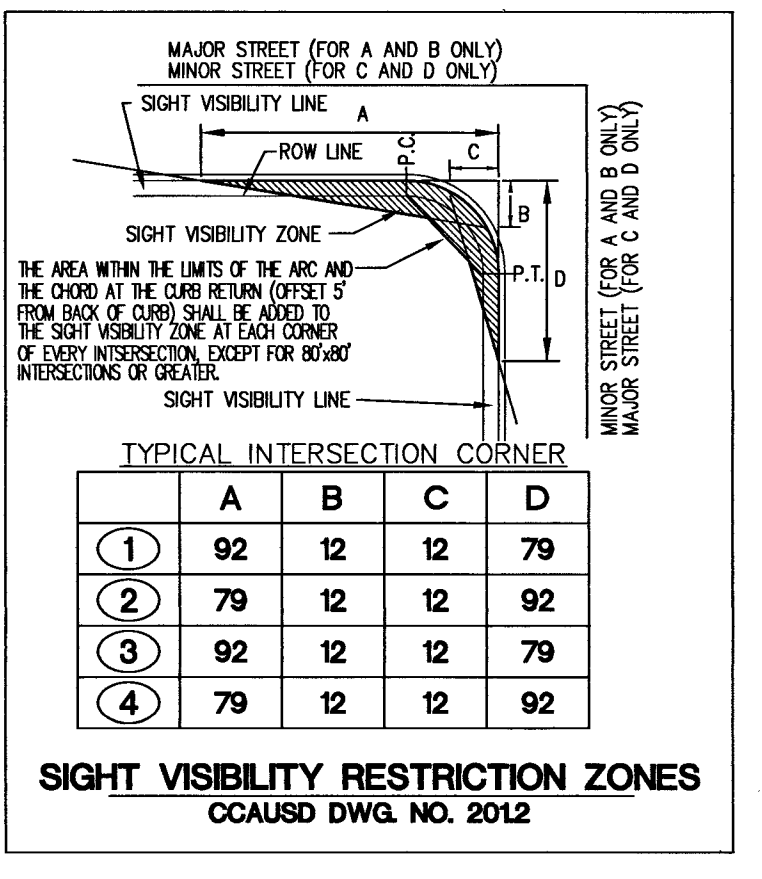
AS OF 10/17/2018 BY CHRIS WALDEN
DATE NAME OF PERSON WHO DID CALCULATIONS

AS OF 10/17/2018 BY CHRIS WALDEN
DATE NAME OF PERSON WHO DID CALCULATIONS

APPROVALS

CITY OF LAS VEGAS FIRE DEPARTMENT

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW 1500 GPM AT 20 P.S.I. RESIDUAL.



TYPICAL INTERSECTION CORNER			
	A	B	C
1	92	12	12
2	79	12	12
3	92	12	12
4	79	12	12

SIGHT VISIBILITY NOTE:
NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTING, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE.

NOTE:
1. ADVANTAGE CIVIL DESIGN GROUP 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 BOTH THE HORIZONTAL AND VERTICAL LOCATION 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.

2. SEE SHEET SS1 FOR STREETLIGHT LOAD CALCULATIONS.

3. SEE SHEET 2 FOR TOTAL PROJECT QUANTITIES AND GENERAL NOTES.

LEGEND

PROPOSED STREET LIGHT CONDUIT
PRIVATE STREET ESMT.
R.O.W.
PROPOSED 100W HPS SINGLE STREETLIGHT ASSEMBLY PER USD 314 OR 316.
PROPOSED SERVICE PEDESTAL
PROPOSED PULLBOX PER USD 326.
BLUE REFLECTOR

STREET NAME SIGN
R1-1 "STOP SIGN" WITH D3's
TRAFFIC SIGN
MATCHLINE
SIGHT VISIBILITY ZONE

- CONSTRUCTION NOTES**
- INSTALL 9" D-3 STREET NAME SIGNS. INITIAL UPPER CASE LETTER IS "B" SERIES C AND LOWER CASE LETTERS ARE 6" SERIES C.
 - INSTALL 36" R1-1 STOP SIGN.
 - INSTALL GE-ENVELOPE ERL1-0-08-B3-1-40-A-GRAY-ALR-GBSP LED STREETLIGHT (OR APPROVED EQUAL) AND FOUNDATION PER CCAUSD 314, 320 AND 321.
 - INSTALL STANDARD 1 1/4" STREETLIGHT CONDUIT WITH 2 #4 AND 1 #8 THW COPPER CONDUCTOR.
 - INSTALL NO 3 1/2 PULL BOX PER CCAUSD #326.
 - RED PAINTED CURB FROM CENTERLINE OF HYDRANT FOR TOTAL OF 30' (CURB LENGTH PERMITTING) AND WHERE ROAD WIDTH DOES NOT ALLOW PARKING, STENCIL "NO PARKING - FIRE LANE" IN 4" WHITE LETTERS EVERY 50 LF.
 - INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER ADJACENT TO THE FIRE HYDRANT ON ALL IMPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS, OR FIRE LANES.
 - HATCHED AREA DENOTES SIGHT VISIBILITY ZONE PER CCAUSD #201.2.
 - EXISTING LUMINAIRE.
 - REMOVE EXISTING TYPE III BARRICADE.

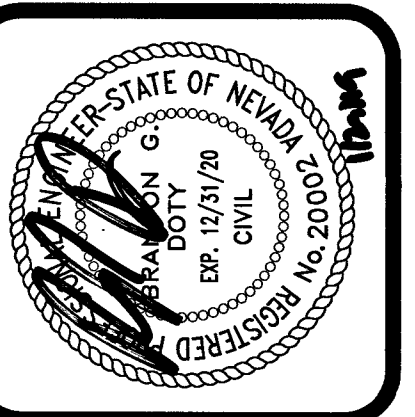
North arrow pointing up.

SCALE: 1" = 30'

Inset map showing the location of the project within the larger context of the area.

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY, SUITE 400
LAS VEGAS, NV 89114
OFFICE: 702.452.2294
FAX: 702.452.2294
Email: info@advantagecivil-nv.com

CIVIL ENGINEERING
PLANNING



STREETLIGHT & SIGNAGE PLAN 1

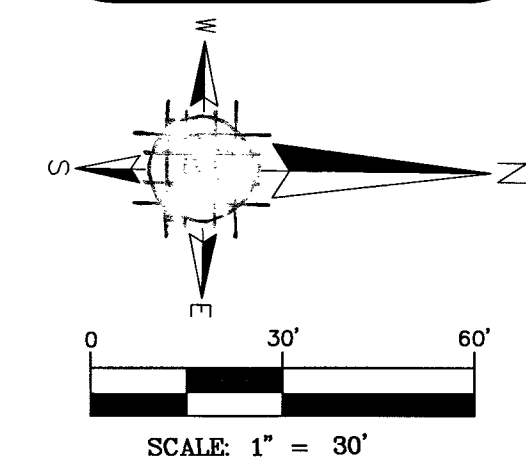
BLM 33

BY D.R. HORTON

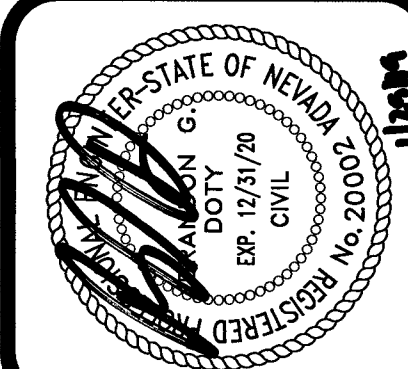
REVISIONS		NO.	DATE	DESCRIPTION

JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/2018

SS1 **22** **24**



ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY., BLDG. 4 5TH FL. 4122
HENRIKSON, NEVADA 89014
Office: 702.492.2294
Fax: 702.496.2284
Email: info@advancivil.com
CIVIL ENGINEERING PLANNING CONSULTING



STREETLIGHT & SIGNAGE PLAN 2

BLM 33

BY D.R. HORTON

BASIS OF BEARING

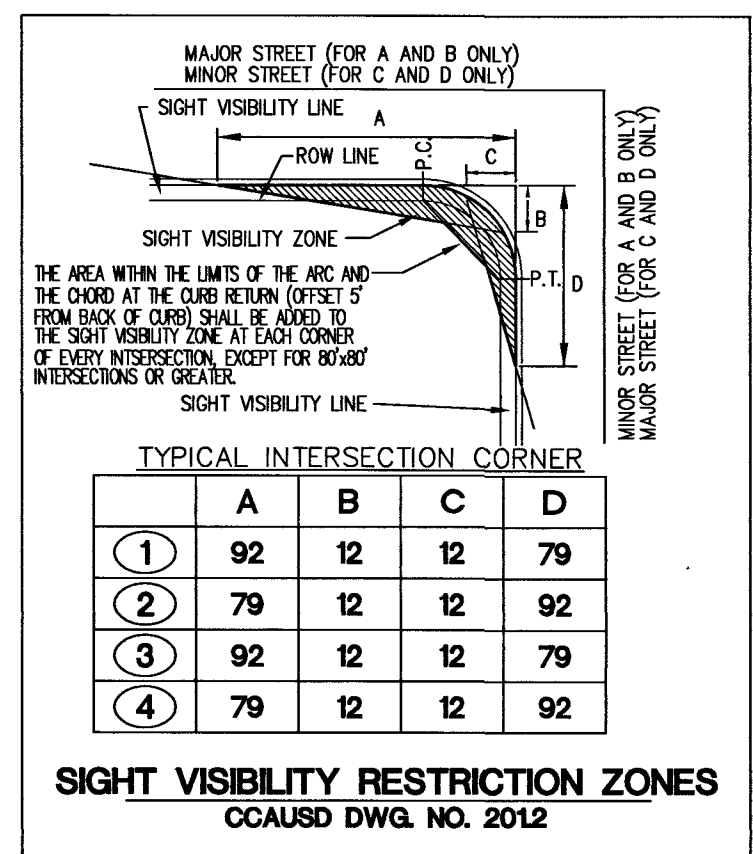
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0
 ZONE: LAS VEGAS ZONE
 STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
 CENTRAL MERIDIAN: 114°58'00" W
 FALSE NORTHING: 200,000 METERS
 FALSE EASTING: 100,000 METERS
 STANDARD PARALLEL SCALE: 1.0001
 LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK
CITY OF LAS VEGAS VERTICAL CONTROL POINT "0LV00 2854" BEING A RIVET &
PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

**SIGHT VISIBILITY NOTE:**

NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE, UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTING, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE.

NOTE:

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2. SEE SHEET SS1 FOR STREETLIGHT LOAD CALCULATIONS.

3. SEE SHEET 2 FOR TOTAL PROJECT QUANTITIES AND GENERAL NOTES

CONSTRUCTION NOTES

- (1) INSTALL 9" D-3 STREET NAME SIGNS. INITIAL UPPERCASE LETTER IS 8" SERIES C AND LOWERCASE LETTERS ARE 6" SERIES C.
- (2) INSTALL 36" R-1 STOP SIGN.
- (3) INSTALL GE-ENVELOPE ERL1-0-08-B3-1-40-A-GRAY-ALR-GBSP LED STREETLIGHT (OR APPROVED EQUAL) AND FOUNDATION PER CCAUSD 314, 320 AND 321
- (4) INSTALL STANDARD 1 1/4" STREETLIGHT CONDUIT WITH 2 #4 AND 1 #8 THW COPPER CONDUCTOR
- (5) INSTALL NO 3 1/2" PULL BOX PER CCAUSD #326.
- (6) RED PAINTED CURB FROM CENTERLINE OF HYDRANT FOR TOTAL OF 30' (CURB LENGTH PERMITTING) AND WHERE ROAD WIDTH DOES NOT ALLOW PARKING. STENCIL "NO PARKING - FIRE LANE" IN 4" WHITE LETTERS EVERY 50 LF.
- (7) INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER ADJACENT TO THE FIRE HYDRANT ON ALL IMPROVED FIRE APPARATUS ACCESS ROADSWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS, OR FIRE LANES.
- (8) HATCHED AREA DENOTES SIGHT VISIBILITY ZONE PER CCAUSD #201.2.
- (9) EXISTING LUMINAIRE
- (10) REMOVE EXISTING TYPE III BARRICADE.
- (11) INSTALL W14-2 (NO OUTLET) SIGN

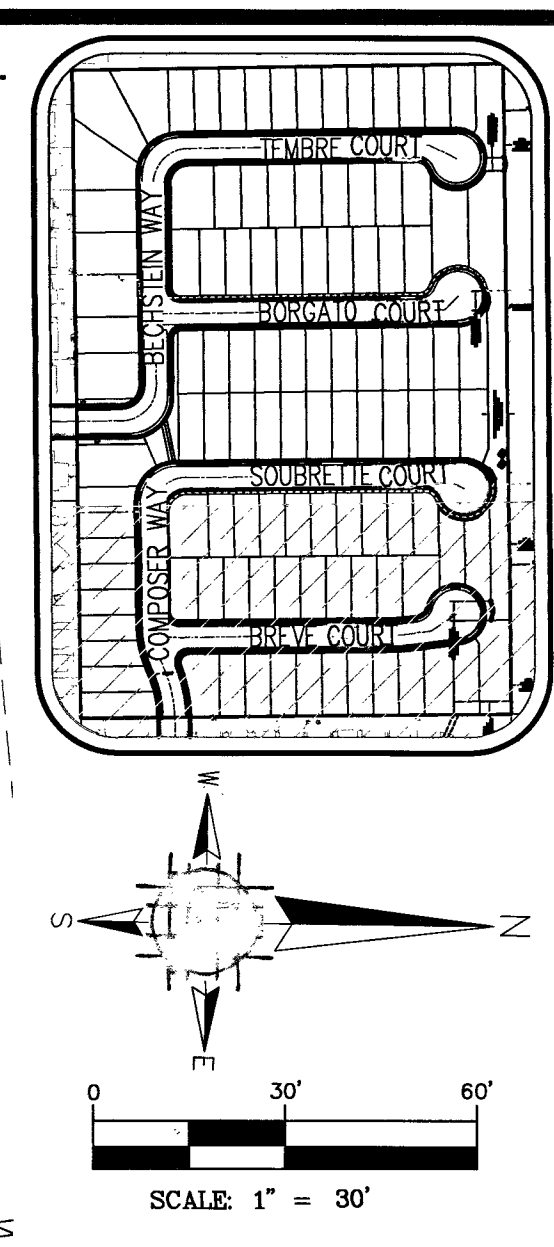
APPROVALS


CITY OF LAS VEGAS FIRE DEPARTMENT

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BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF
ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS.
FIRE FLOW 1500 GPM AT 20 P.S.I. RESIDUAL.

L18-02380 107V5099

[illegible]



BASIS OF BEARING
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.10

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK
LAS VEGAS VERTICAL CONTROL POINT "QV02 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

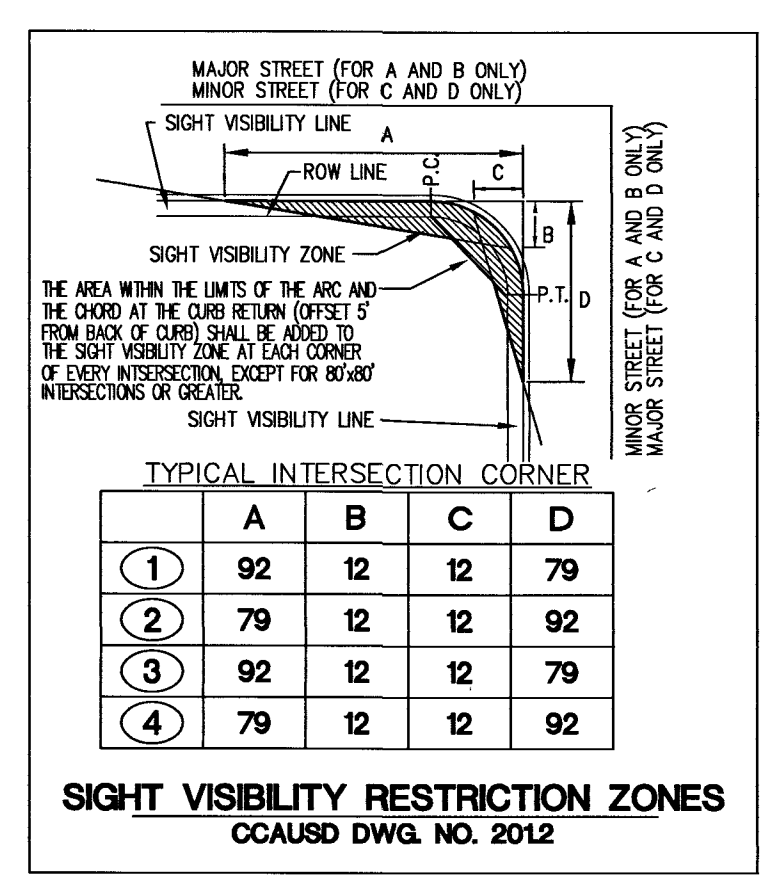
ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

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

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

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929



SIGHT VISIBILITY NOTE:
NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTING, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE.

NOTE:
1. ADVANTAGE CIVIL DESIGN GROUP 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 BOTH THE HORIZONTAL AND VERTICAL LOCATION 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.

2. SEE SHEET SS1 FOR STREETLIGHT LOAD CALCULATIONS.

3. SEE SHEET 2 FOR TOTAL PROJECT QUANTITIES AND GENERAL NOTES.

- CONSTRUCTION NOTES**
1. INSTALL 9" D-3 STREET NAME SIGNS. INITIAL UPPERCASE LETTER IS 8" SERIES C AND LOWERCASE LETTERS ARE 6" SERIES C.
 2. INSTALL 36" R1-1 STOP SIGN.
 3. INSTALL GE-ENVELOPE ERL1-0-08-B3-1-40-A-GRAY-ALR-GBSP LED STREETLIGHT (OR APPROVED EQUAL) AND FOUNDATION PER CCAUSD 314, 320 AND 321.
 4. INSTALL STANDARD 1 1/4" STREETLIGHT CONDUIT WITH 2 #4 AND 1 #8 THW COPPER CONDUCTOR.
 5. INSTALL NO 3 1/2 PULL BOX PER CCAUSD #326.
 6. RED PAINTED CURB FROM CENTERLINE OF HYDRANT FOR TOTAL OF 30' (CURB LENGTH PERMITTING) AND WHERE ROAD WIDTH DOES NOT ALLOW PARKING. STENCIL "NO PARKING - FIRE LANE" IN 4" WHITE LETTERS EVERY 50 LF.
 7. INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER ADJACENT TO THE FIRE HYDRANT ON ALL IMPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS, OR FIRE LANES.
 8. HATCHED AREA DENOTES SIGHT VISIBILITY ZONE PER CCAUSD #201.2.
 9. EXISTING LUMINAIRE.
 10. REMOVE EXISTING TYPE III BARRICADE.
 11. INSTALL W14-2 (NO OUTLET) SIGN.

LEGEND

- PROP. STREET LIGHT CONDUIT
- PRIVATE STREET ESMT.
- R.O.W.
- PROPOSED 100W HPS SINGLE STREETLIGHT ASSEMBLY PER USD 314 OR 316.
- PROPOSED SERVICE PEDESTAL.
- PROPOSED PULLBOX PER USD 326.
- BLUE REFLECTOR

- STREET NAME SIGN
- R1-1 "STOP SIGN" WITH D3's
- TRAFFIC SIGN
- MATCHLINE
- SIGHT VISIBILITY ZONE

STOP

R1-1 "STOP SIGN"

APPROVALS

CITY OF LAS VEGAS FIRE DEPARTMENT

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW 1500 GPM AT 20 P.S.I. RESIDUAL.

DATE: 12/20/18

1-3-19

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PARKWAY, SUITE 400
HENDERSON, NEVADA 89014
Office: 702.452.2294
Fax: 702.496.2294
Email: info@advantagecivil-nv.com
CONSULTING

STATE OF NEVADA
COUNTY OF CLAY
CIVIL
RECEIVED
DEC 20 2018

STREETLIGHT & SIGNAGE PLAN 3

BLM 33

BY D.R. HORTON

NO.	DATE	REVISIONS	DESCRIPTION

JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/20/18

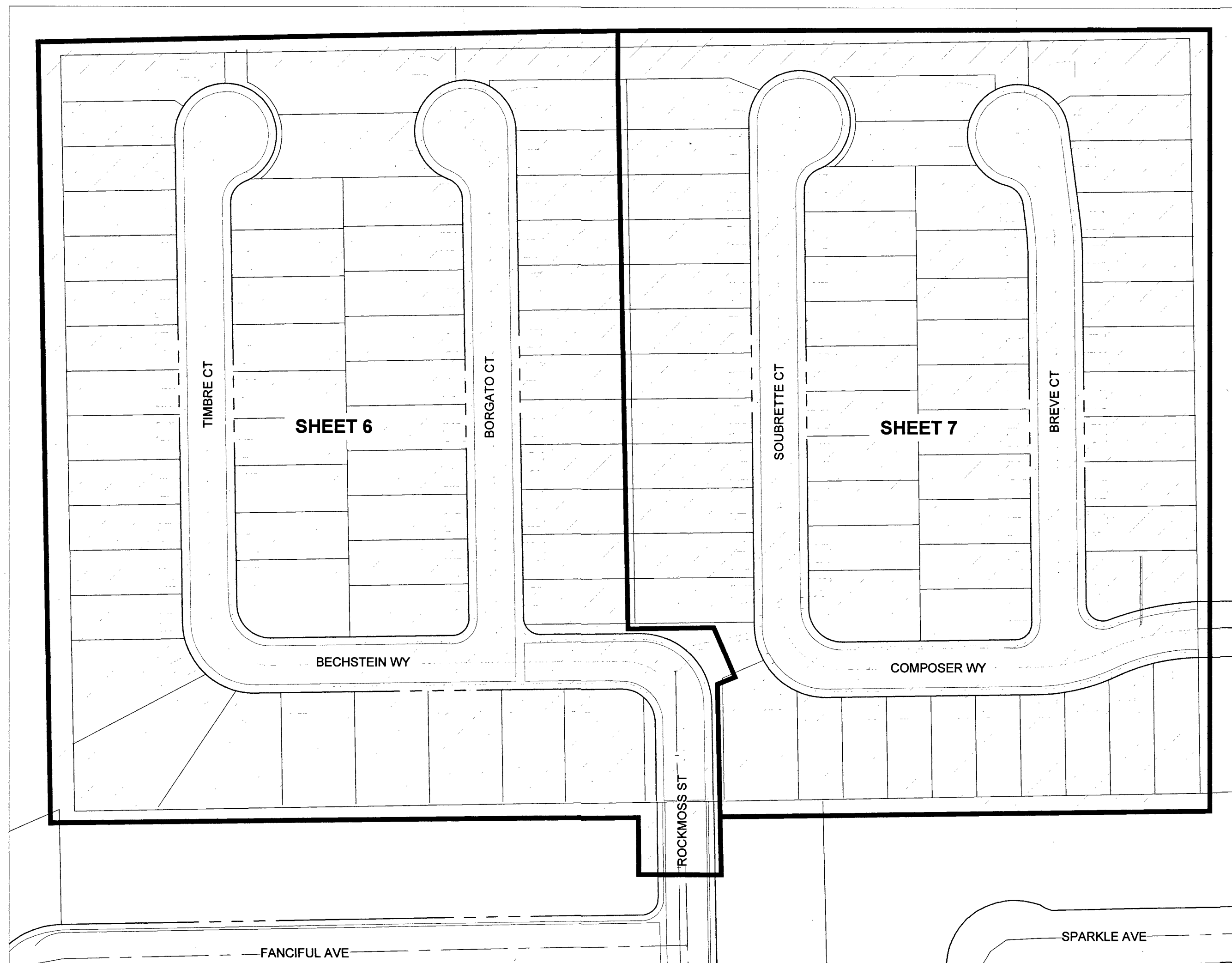
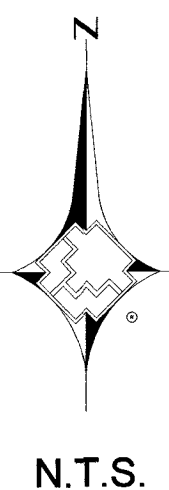
SS3

24

24

LEGEND

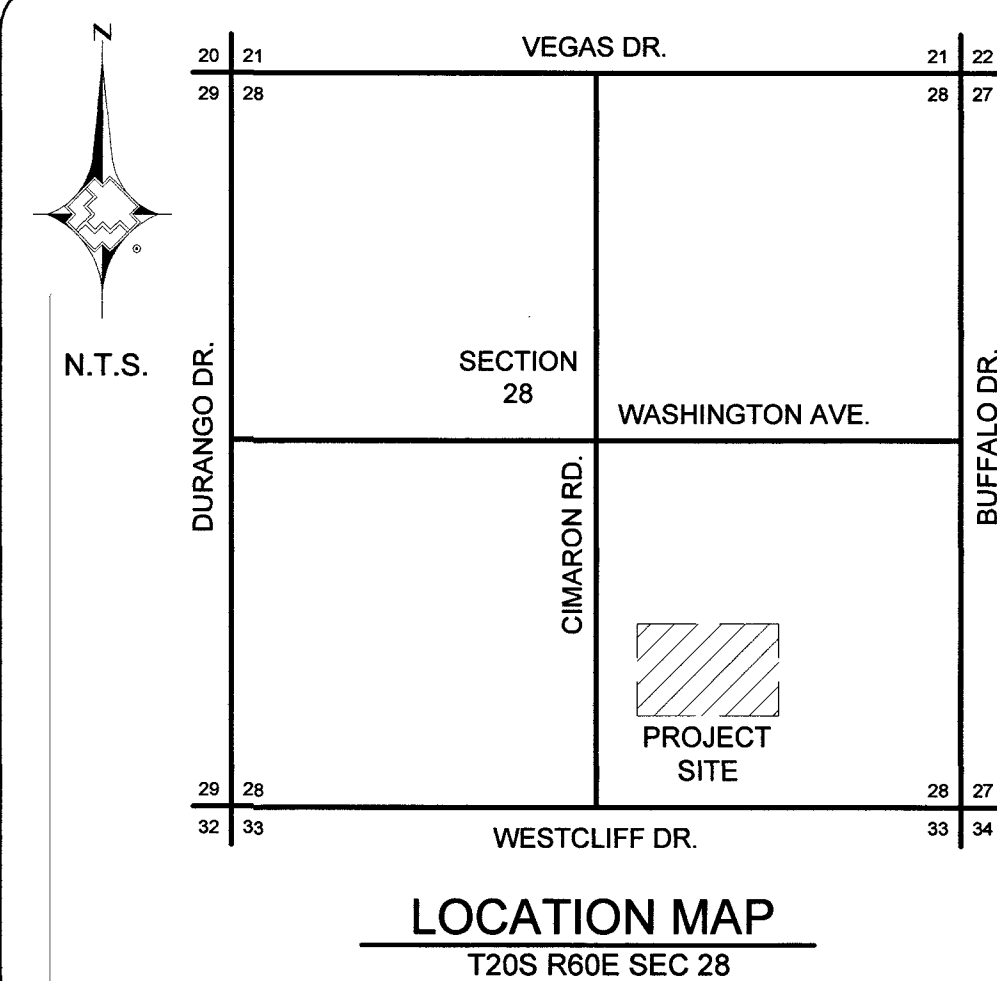
EXISTING GAS MAIN	
EXISTING GAS SERVICE	
GAS LINE TO BE ABANDONED	
STEEL RISER	
ANODELESS RISER	
GASLIGHT	
GAS VALVE	
EXCESS FLOW VALVE	
RELIEF VALVE	
COUPLINGS	
BOND OVER	
TEST POINT	
INSULATOR	
REGULATOR STATION	
RECTIFIER	
ANODE	
SCADA	
METER SET ASSEMBLY	
PURGE POINT	
BRANCH,CVT,LINE STOPPER	
GAS LINE TO BE ABANDONED	
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
- 6-7 PLAN SHEETS



City of Las Vegas

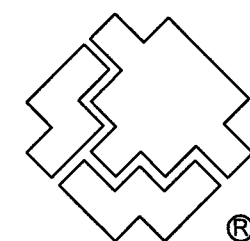
Total footage located in Public ROW 3,045'

APPROVED FOR CONSTRUCTION
THIS APPROVAL IS FOR WORK IN CLV RW OR CLV
EASEMENTS ONLY. OBTAINING PERMISSION OR
EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY
IS THE RESPONSIBILITY OF THE UTILITY.

Approval *[Signature]* Date 7/25/19



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Southwest Gas Corporation.

REVISIONS					D_W_VALLEY		JOB TYPE		WR NO.		ENGINEER/TECHNICIAN		AMANDA HENDERSON		PHONE: (702) 365-2152		
						SYSTEM MAOP:	60	HP SERVICE	☐	3771778		ACCOUNT REP.		TONY STIPANOV		PHONE: (702) 365-2053	
						SYSTEM MOP:	55	DISTRIBUTION	☒			PROJECT CONTACT		DAVE VON OY		PHONE: (702) 376-7577	
NO.	DESCRIPTION			BY	DATE	APPVD.							SHEET NO. 1 OF 7		SCALE	N.T.S.	DATE 05/23/2019
													DWN. BY SEI		CHKD. BY	AH	APPVD. BY BWJ
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE				FEEDER		RELATED WR NO.S							
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_232	T20S R60E SEC 28 M.D.M.	x591y518		SYSTEM MAOP:		TRANS. BY DEF					BLM 33				
						SYSTEM MOP:		TRANS > 20%		L18-02380 107Y5099							

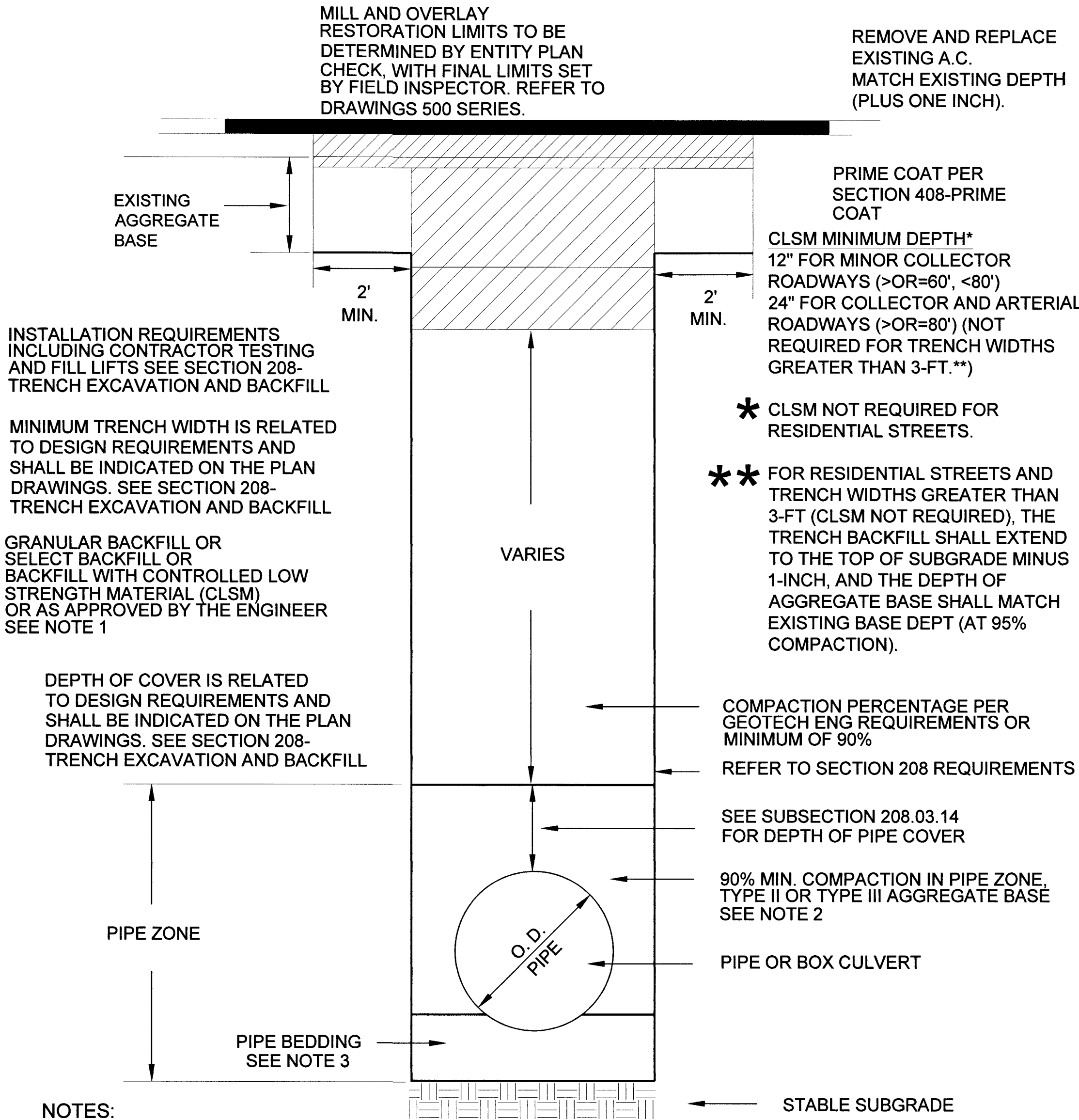
- GENERAL NOTES:
- SUGGESTED GAS LOCATIONS ARE TO CLEAR SUBSTRUCTURES. LOCATE IN FIELD.
 - ALL PIPELINE CONSTRUCTION SHALL CONFORM TO APPLICABLE JURISDICTION SPECIFICATIONS..
 - DO NOT SCALE THIS DRAWING.
 - CHANGE IN PROPOSED MAIN LOCATION MUST BE AUTHORIZED BY SWG ENGINEER PRIOR TO INSTALLATION.
 - GAS MAINS SHALL BE PURGED PER OPERATIONS MANUAL.
 - ALL EXISTING UTILITY LOCATIONS TO BE VERIFIED PRIOR TO START OF CONSTRUCTION.
 - TRENCH IS TO BE EXCAVATED TO THE DEPTH AND WIDTH AS INDICATED ON THE TRENCH DETAIL(S).
 - CONTACT ENGINEERING FOR BYPASS INFORMATION.
 - ALL MAIN TIE-INS REQUIRING TEES ARE TO BE FULL-FLOW TEES UNLESS OTHERWISE STATED..
 - ALL SHORING REQUIREMENTS SHALL CONFORM TO APPLICABLE PORTIONS OF THE OPERATIONS MANUAL.
 - REQUEST FOR SURVEYING AND/OR STAKING WILL BE SUBMITTED TO ENGINEERING 72 HOURS IN ADVANCE, MINIMUM.
 - TRENCHING AND PAVEMENT REPLACEMENT SHALL CONFORM WITH RTC STANDARD 503. AND UNIFORM STANDARD SPEC SECTION 208.
 - 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
3,045'	2" PE8100
2,124'	1" PE8100



NOTES:

- NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
- TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.
- 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.
- 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:

AA ALDYL-A PIPE
ABND ABANDONED
AC ASPHALTIC CONCRETE
ACP ACCELERATED CONSTRUCTION
APN ASBESTOS CEMENT PIPE
APN ASSESSOR PARCEL NUMBER

BLVD BOULEVARD
BM BENCHMARK
BO BLOW OFF
BTU BRITISH THERMAL UNIT

CIP CAST IRON PIPE
CL CENTERLINE
CMP CORRUGATED METAL PIPE
CP CATHODIC PROTECTION

D INSIDE DIAMETER
DDCA DESIGN DATA COLLECTION APPLICATION
DET DETAIL
DIP DUCTILE IRON PIPE
DIA DIAMETER
DIMP DISTRIBUTION INTEGRITY MANAGEMENT PROGRAM
DP DESIGN PRESSURE
DWG DRAWING

EFV EXCESS FLOW VALVE
EG EXISTING GRADE
ELEC ELECTRICAL
ELEV ELEVATION
EMS ELECTRONIC MARKING SYSTEM
E.P END POINT
EPR ELECTRONIC PRESSURE RECORDERS
ESMT EASEMENT
EX EXISTING

FERC FEDERAL ENERGY REGULATORY COMMISSION
FH FIRE HYDRANT

GIR GAS INFRASTRUCTURE REPLACEMENT
GPR GAS PRESSURE REGULATOR

HCA HIGH CONSEQUENCE AREA
HDD HEATING DEGREE DAY
HDPE HIGH DENSITY POLYETHYLENE PIPE
HP HIGH PRESSURE
HOP HISTORIC OPERATING PRESSURE
HVTT HIGH VOLUME TAPPING TEE

IN INCH(ES)
IPS IRON PIPE SIZE

JT JOINT TRENCH

MAOP MAXIMUM ALLOWABLE OPERATING PRESSURE
M&C MEASUREMENTS & CONTROL
MCFH THOUSAND CUBIC FEET PER HOUR
MH MANHOLE
MOP MAXIMUM OPERATING PRESSURE
MP MANUFACTURER'S PRESSURE RATING
MSA METER SET ASSEMBLY
MVP MAPPING VERIFICATION PROCEDURE

NAP NOT A PART

NTSB NATIONAL TRANSPORTATION SAFETY BOARD
NTS NOT TO SCALE
OC ON CENTER
OD OUTSIDE DIAMETER
OH OVERHEAD
OHE OVERHEAD ELECTRIC

P POWER
PAOP POTENTIAL ALLOWABLE OPERATING PRESSURE
PCC PORTLAND CEMENT CONCRETE
PE POLYETHYLENE PIPE
PH POT HOLE

PHMSA PIPELINE & HAZARDOUS MATERIALS SAFETY ADMINISTRATION
PL PROPERTY LINE
PIC POTENTIAL IMPACT CIRCLE
PLS PRESSURE LIMITING STATION
P.O.B POINT OF BEGINNING
PP POWER POLE
PROP PROPOSED
PQF PREQUALIFIED FITTING
PSIG POUNDS PER SQUARE INCH (GAUGE)
PVC POLYVINYL CHLORIDE
PUE PUBLIC UTILITY EASEMENT

RC REINFORCED CONCRETE
RCP REINFORCED CONCRETE PIPE
ROW RIGHT OF WAY

SCADA SUPERVISORY CONTROL AND DATA ACQUISITION
SD STORM DRAIN
SDMH STORM DRAIN MANHOLE
SDR STANDARD DIMENSION RATIO
SF SQUARE FOOT
SHT SHEET
SLSV SERVICE LINE SHUT-OFF VALVE
SMYS SPECIFIED MAXIMUM YIELD STRENGTH
SS SANITARY SEWER
SST STAINLESS STEEL
ST STREET
STA STATION
STL STEEL
SWG SOUTHWEST GAS

TDS TEST DATA SHEET
TEL TELEPHONE
TB THRUST BLOCK
TOP TOP OF PIPE
TP TEST POINT
TS TECHNICAL SERVICE NOTE
TRIMP TRANSMISSION INTEGRITY MANAGEMENT PROGRAM
TYP TYPICAL

U.E UTILITY EASEMENT
UGE UNDERGROUND ELECTRIC
UOC UNUSUAL OPERATING CONDITION
USD UNIFORM STANDARD DRAWING
UGT UNDERGROUND TELEPHONE

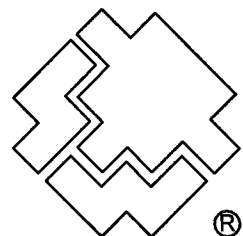
VCP VITRIFIED CLAY PIPE
VERT VERTICAL
VG VALLEY GUTTER
VSP VINTAGE STEEL PIPE

W WATER
WMS WORK MANAGEMENT SYSTEM
WR WORK REQUEST
WT WALL THICKNESS
WV WATER VALVE

YD YARD(S)



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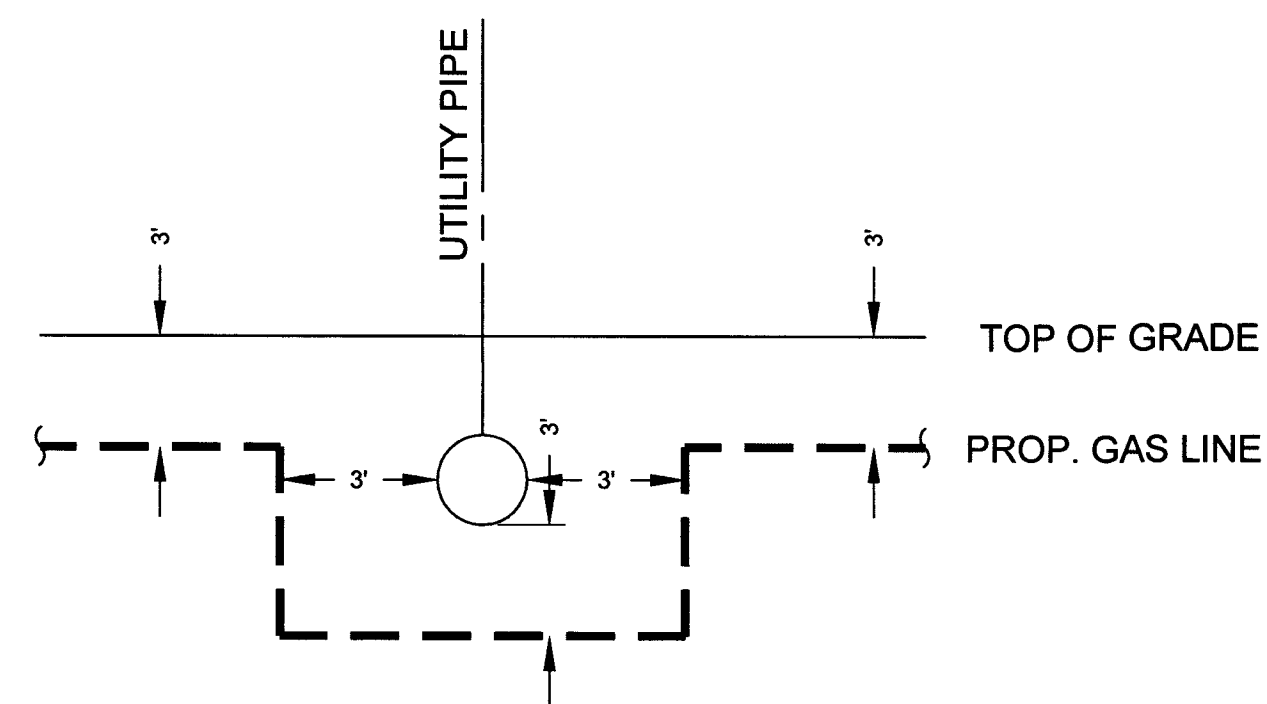
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NO.	DESCRIPTION	BY	DATE	APPVD.
PERMIT INFORMATION				
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_232	T20S R60E SEC 28 M.D.M.	x591y518

D_W_VALLEY	
SYSTEM MAOP:	60
SYSTEM MOP:	55
SYSTEM MAOP:	
SYSTEM MOP:	

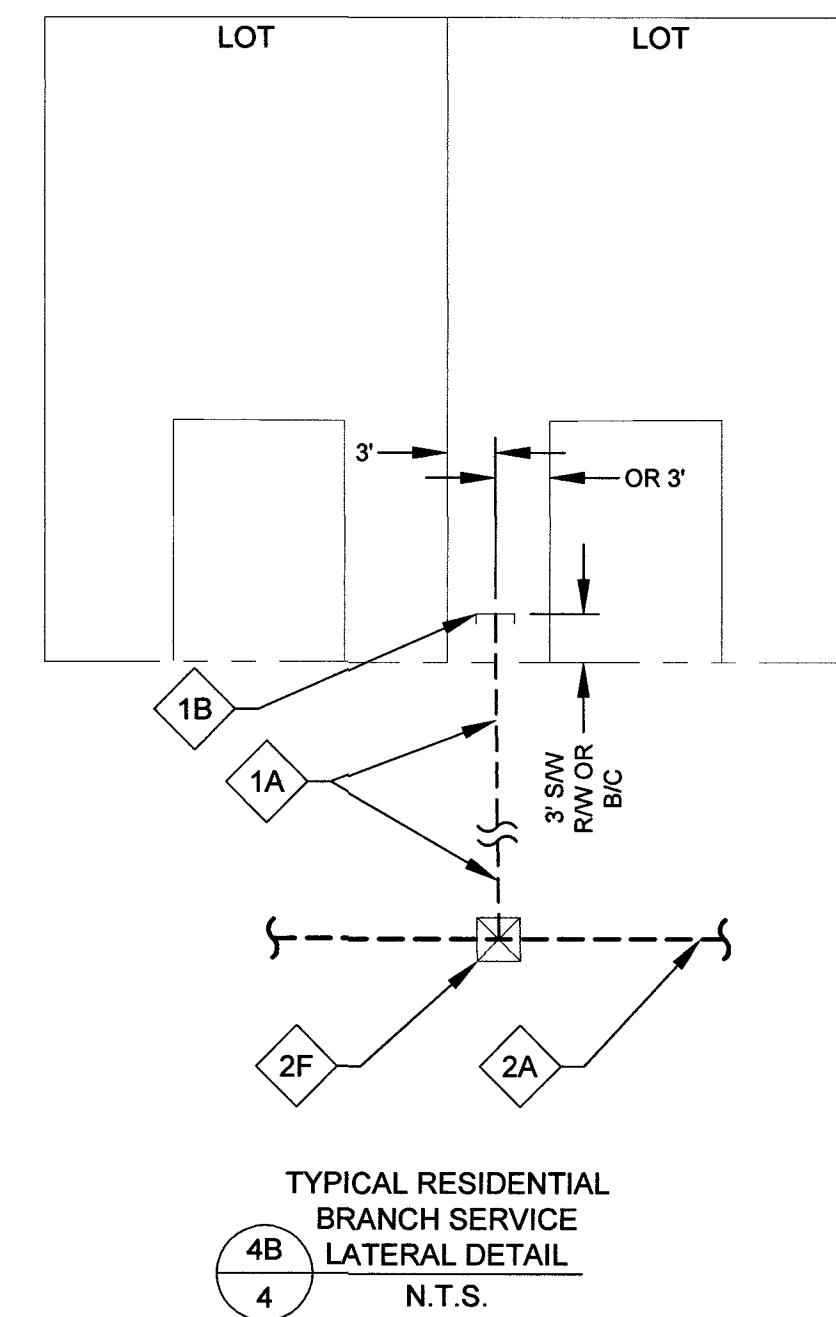
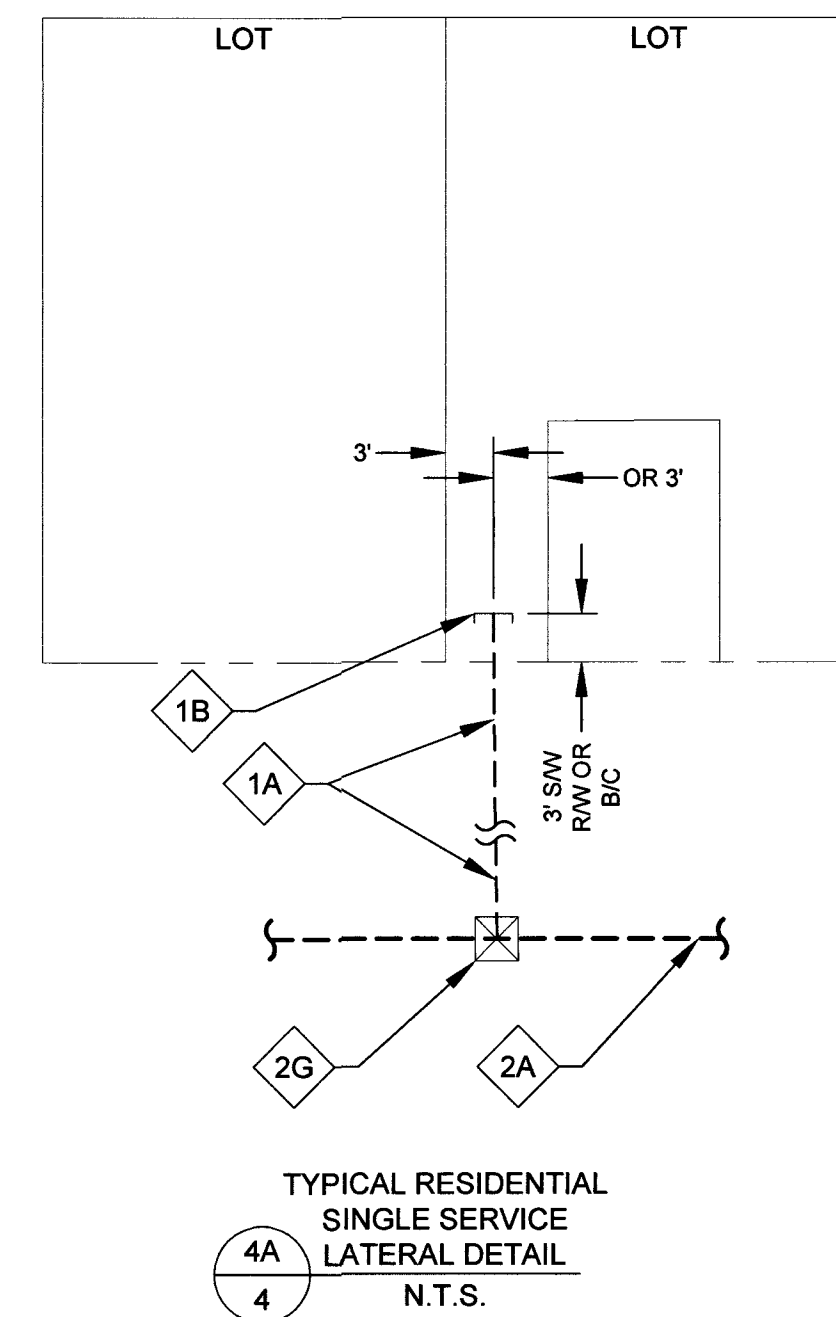
JOB TYPE	
HP SERVICE	☐
DISTRIBUTION	☒
FEEDER	☐
TRANS. BY DEF	☐
TRANS > 20%	☐

WR NO.	
3771778	
RELATED WR NO.S	

ENGINEER/TECHNICIAN	AMANDA HENDERSON	PHONE: (702) 365-2152
ACCOUNT REP.	TONY STIPANOV	PHONE: (702) 365-2053
PROJECT CONTACT	DAVE VON OY	PHONE: (702) 378-7577
SHEET NO. 3 OF 7	SCALE N.T.S.	DATE 05/23/2019
DWN. BY SEI	CHKD. BY AH	APPVD. BY BWJ
BLM 33		
118-02380		107Y5099



TYPICAL UTILITY CROSSING DETAIL
N.T.S.

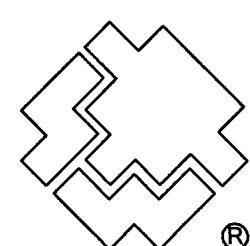


2" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
2A	0'	0'	100-5101	2" PE8100 MAIN	N/A	N/A
2F	37	0	160-8394	2" X 1" PE TAPPING TEE W/1800 EFV	N/A	N/A
2G	36	0	160-8577	2" X 1" PE TAPPING TEE W/1200 EFV	N/A	N/A

1 1/4" AND BELOW, DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
1A	2,124'	0'	101-8526	1" PE SERVICE	N/A	N/A
1B	73	0'	850-8773	1" PE CAP	N/A	N/A



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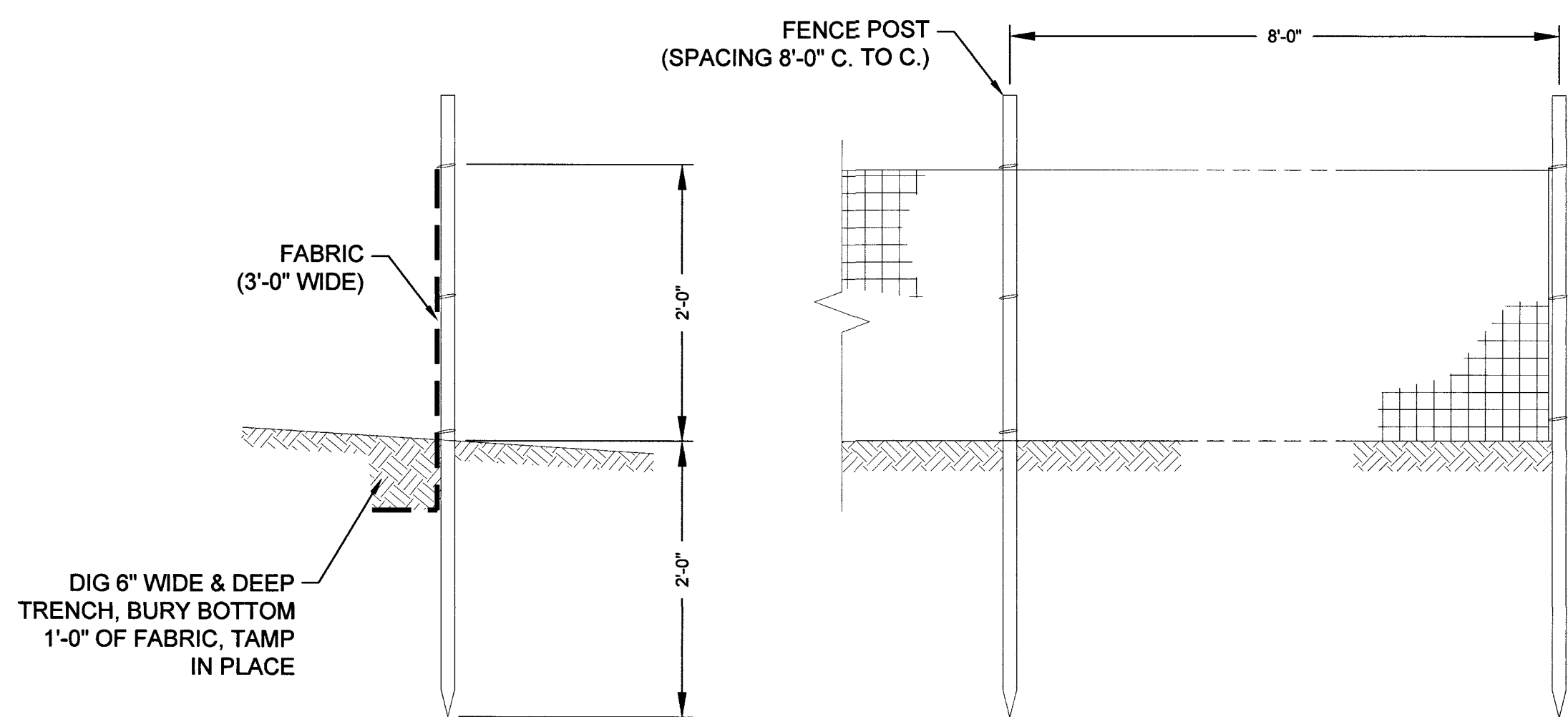
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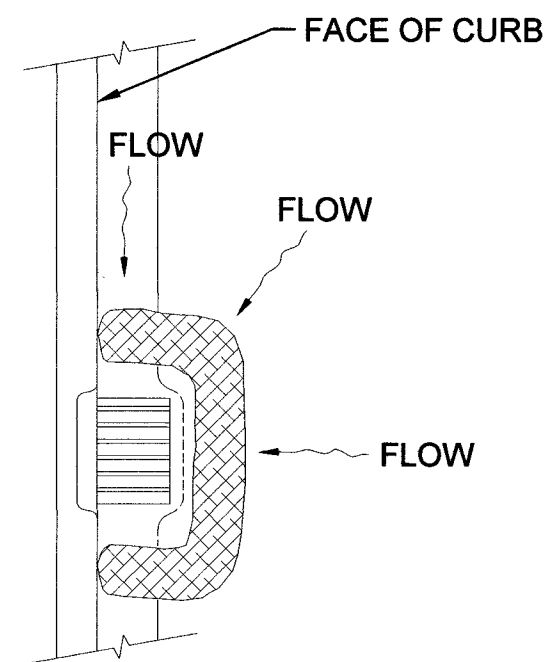
REVISIONS					D_W_VALLEY		JOB TYPE	WR NO.	ENGINEER/TECHNICIAN	AMANDA HENDERSON	PHONE: (702) 365-2152
						SYSTEM MAOP: 60	HP SERVICE ☐	3771778	ACCOUNT REP.	TONY STIPANOV	PHONE: (702) 365-2053
						SYSTEM MOP: 55	DISTRIBUTION ☒		PROJECT CONTACT	DAVE VON OY	PHONE: (702) 376-7577
									SHEET NO. 4 OF 7	SCALE N.T.S.	DATE 05/23/2019
NO.	DESCRIPTION			BY	DATE	APPVD.			DWN. BY SEI	CHKD. BY AH	APPVD. BY BWJ
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE			FEEDER ☐	RELATED WR NO.S	BLM 33 L18-02380 10745099		
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_232	T20S R60E SEC 28 M.D.M.	x591y518		SYSTEM MAOP:	TRANS. BY DEF ☐				
						SYSTEM MOP:	TRANS > 20% ☐				

TYPICAL SWPPP BMP DETAILS

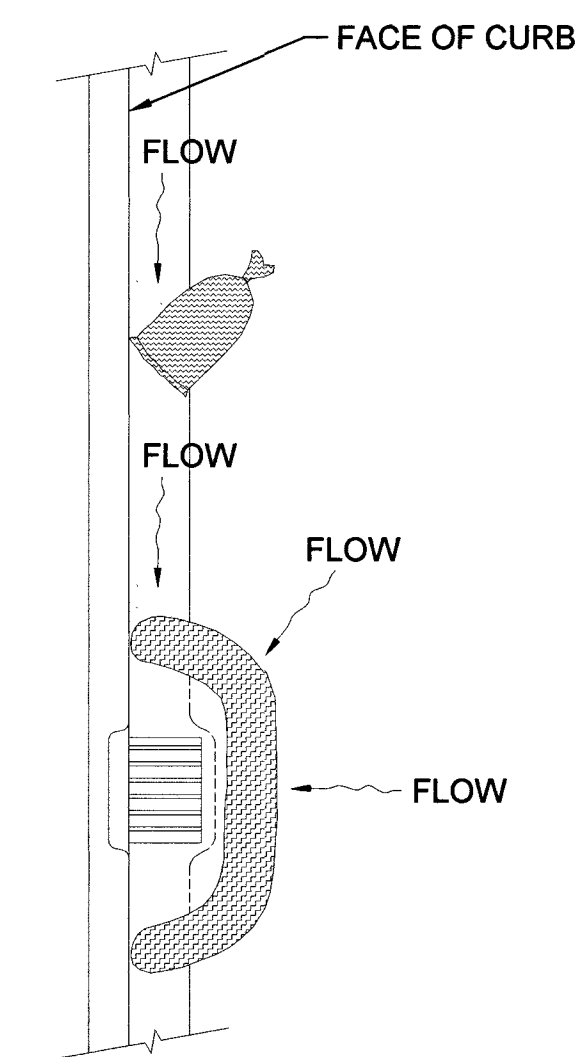
SWPPP NOTES



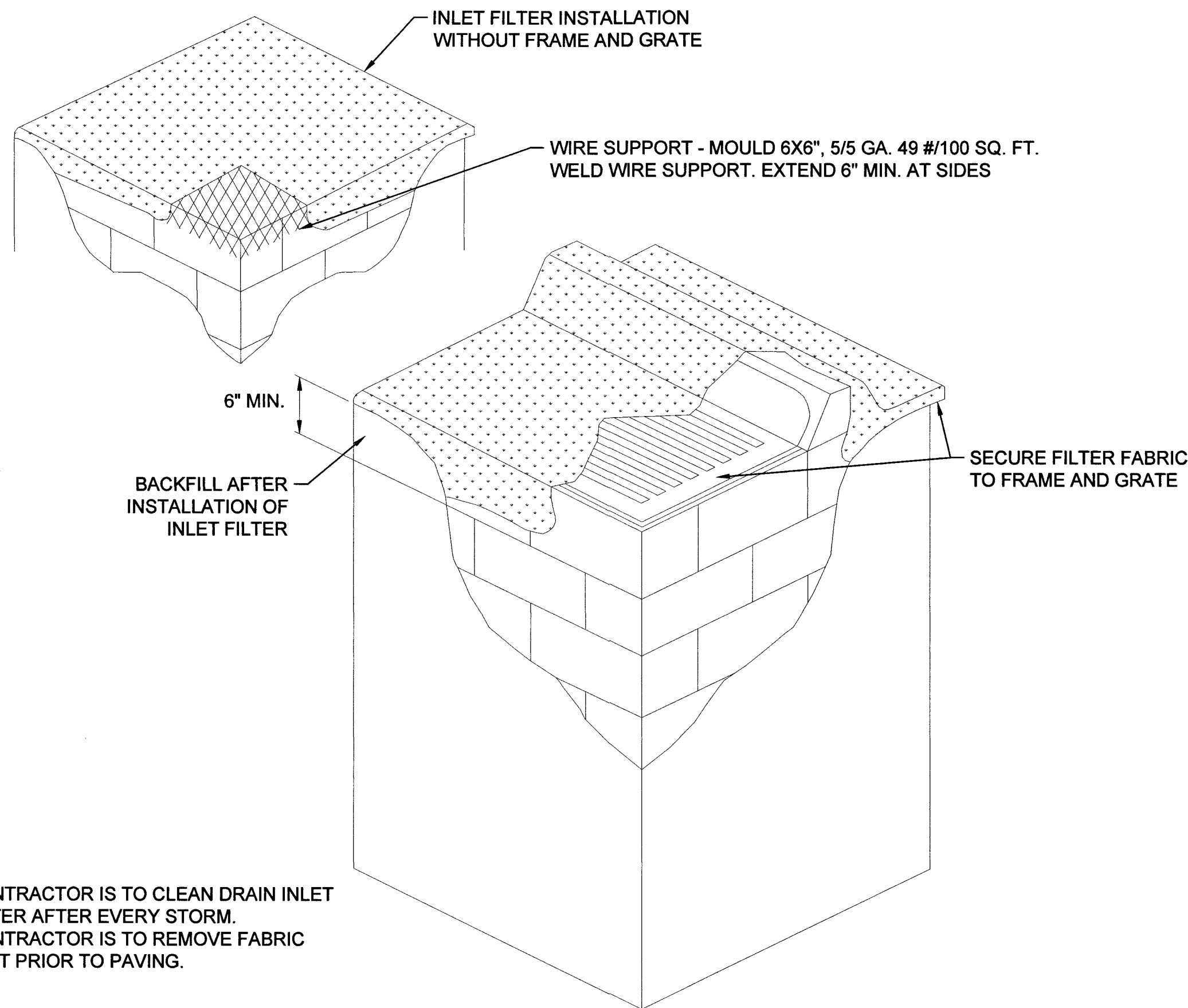
1 SILT FENCE
- N.T.S.



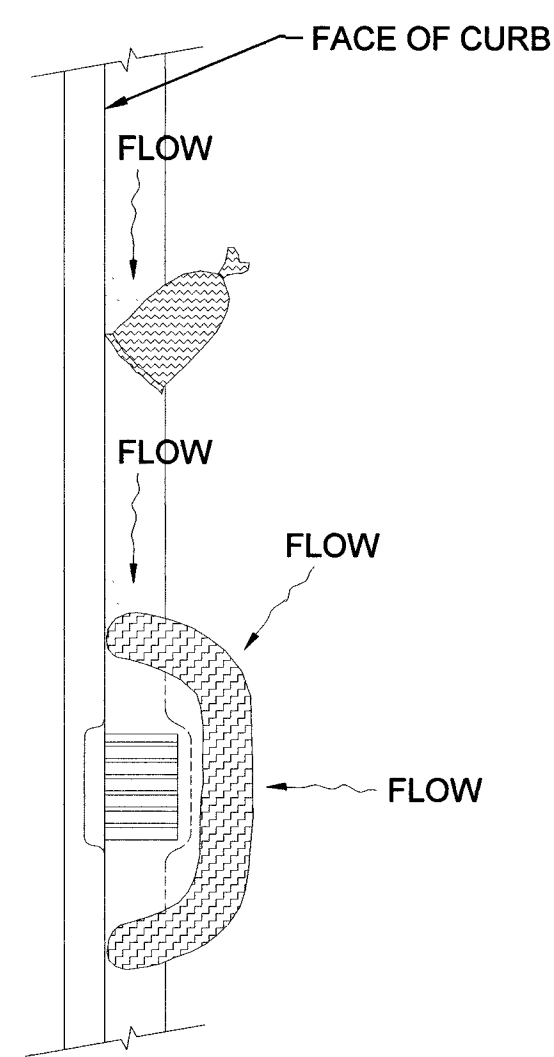
2 FIBER ROLL
- N.T.S.



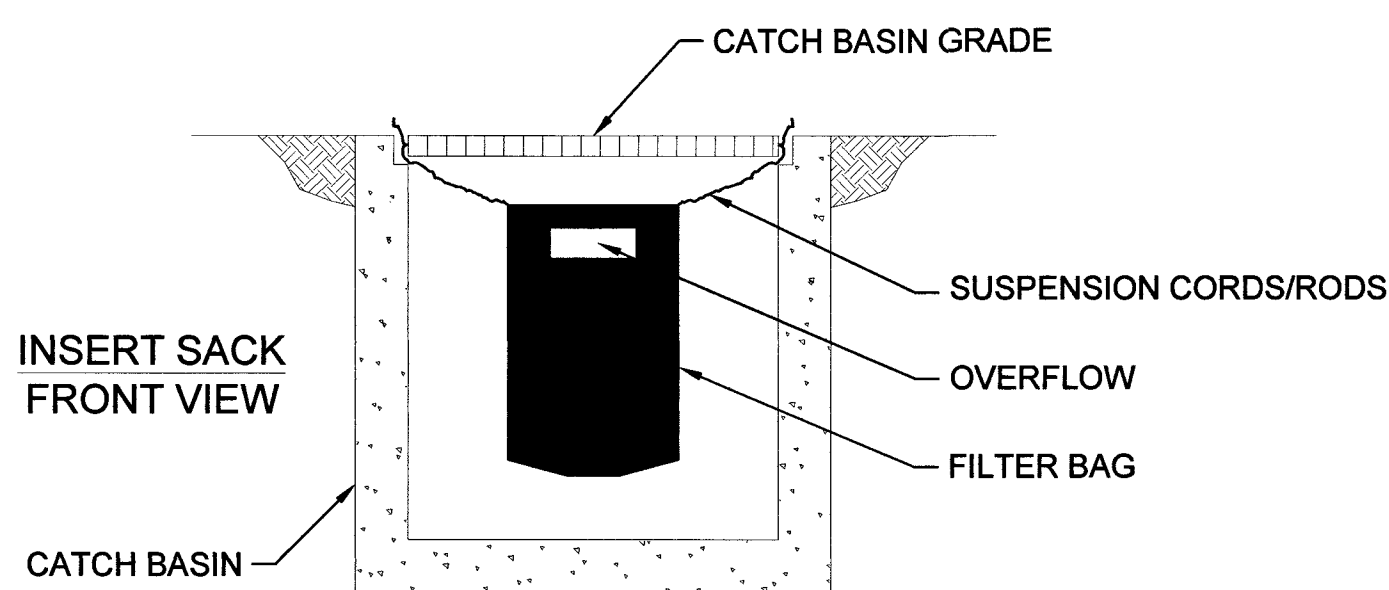
3 SAND BAG/ROLL
- N.T.S.



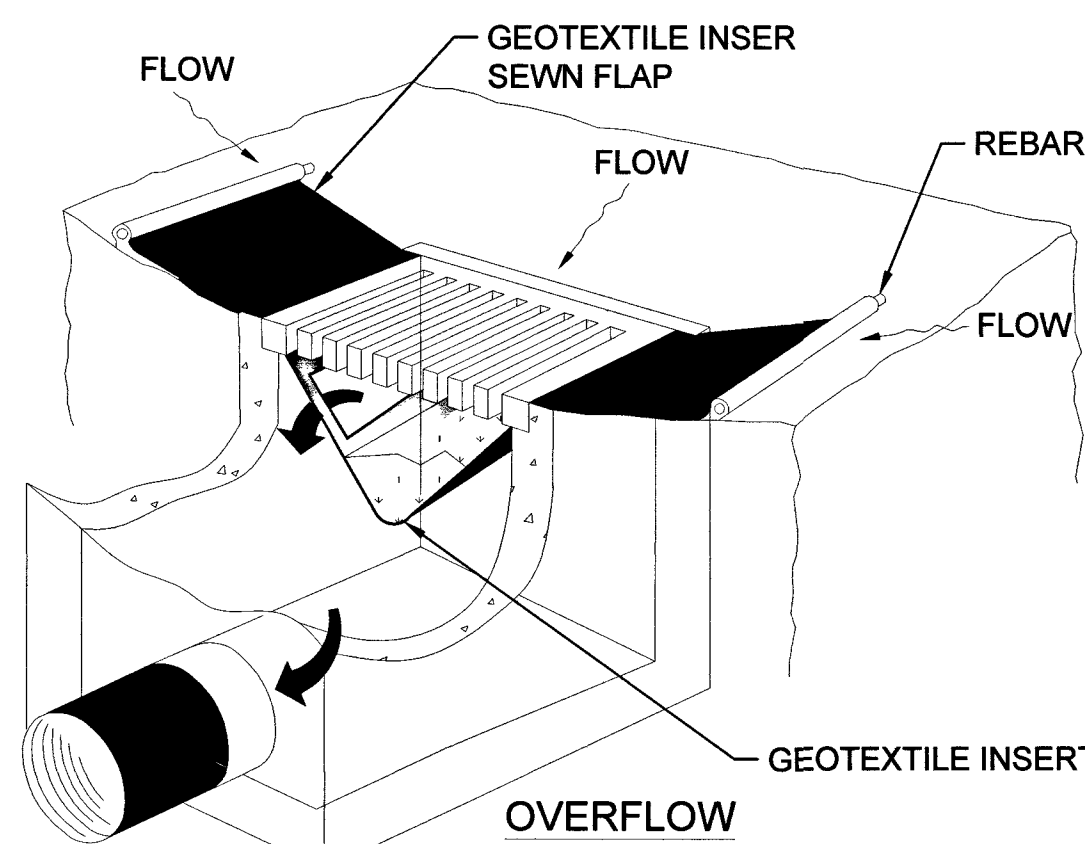
4 DRAIN
INLET FILTER
- N.T.S.



5 GRAVEL
BAG/ROLL
- N.T.S.



6 SEDIMENT
FILTER BAG
- N.T.S.



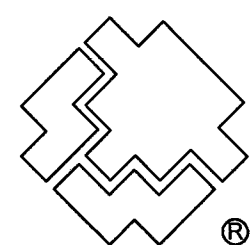
NOTE:
RECESSED CURB INLET MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS.
SIZE OF FILTER FABRIC INLET SACK TO BE DETERMINED BY MANUFACTURER.

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 DOT 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.

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



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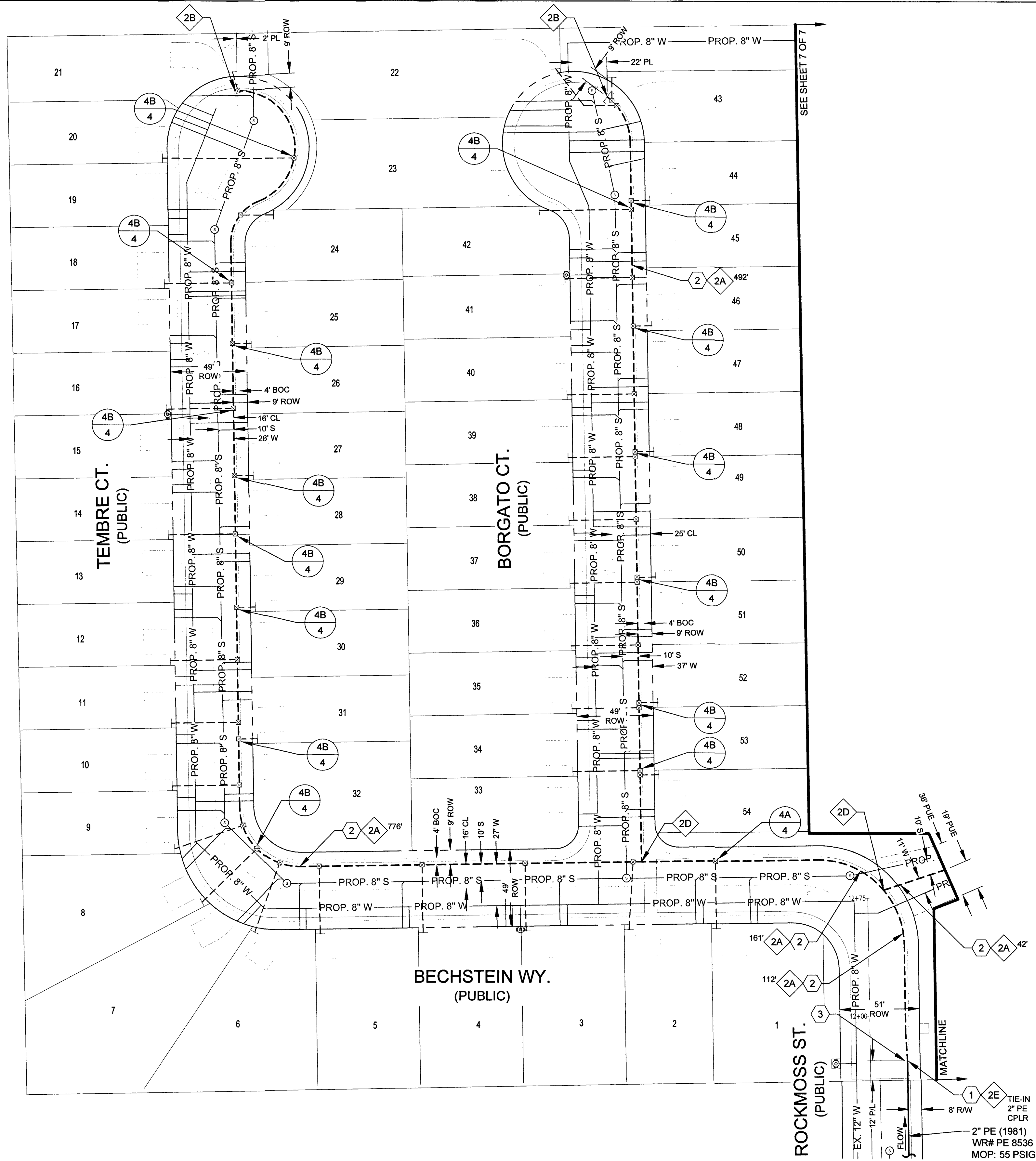
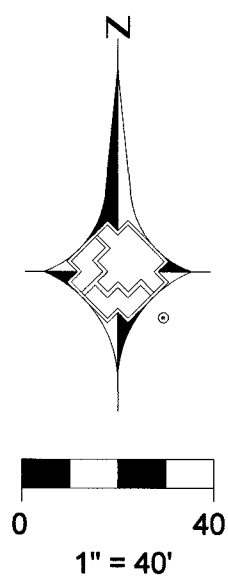
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					SYSTEM MAOP:	60	HP SERVICE	3771778	ACCOUNT REP.	TONY STIPANOV	PHONE: (702) 365-2053							
					SYSTEM MOP:	55	DISTRIBUTION		PROJECT CONTACT	DAVE VON OY	PHONE: (702) 376-7577							
NO.	DESCRIPTION			BY	DATE	APPVD.			SHEET NO.	5 OF 7	SCALE	N.T.S.	DATE	05/23/2019				
							FEEDER		RELATED WR NO.S				DWN. BY	SEI	CHKD. BY	AH	APPVD. BY	BWJ
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE				TRANS. BY DEF		BLM 33								
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_232	T20S R60E SEC 28 M.D.M.	x591y518		SYSTEM MAOP: SYSTEM MOP:		TRANS > 20%										
418-02380 10745099																		

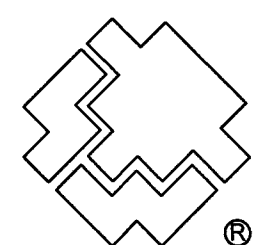


2" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
2A	1,583'	0'	100-5101	2" PE 8100 PIPE	N/A	N/A
2B	2	0'	140-3080	2" PE CAP	N/A	N/A
2D	2	0	140-3074	2" PE FULL FLOW TEE	N/A	N/A
2E	1	0	140-3532	2" PE COUPLING	N/A	N/A

CONSTRUCTION NOTES	
1	TIE NEW 2" PE8100 TO EXISTING 2" PE
2	503
3	500.4 - PAVEMENT CUT 13'



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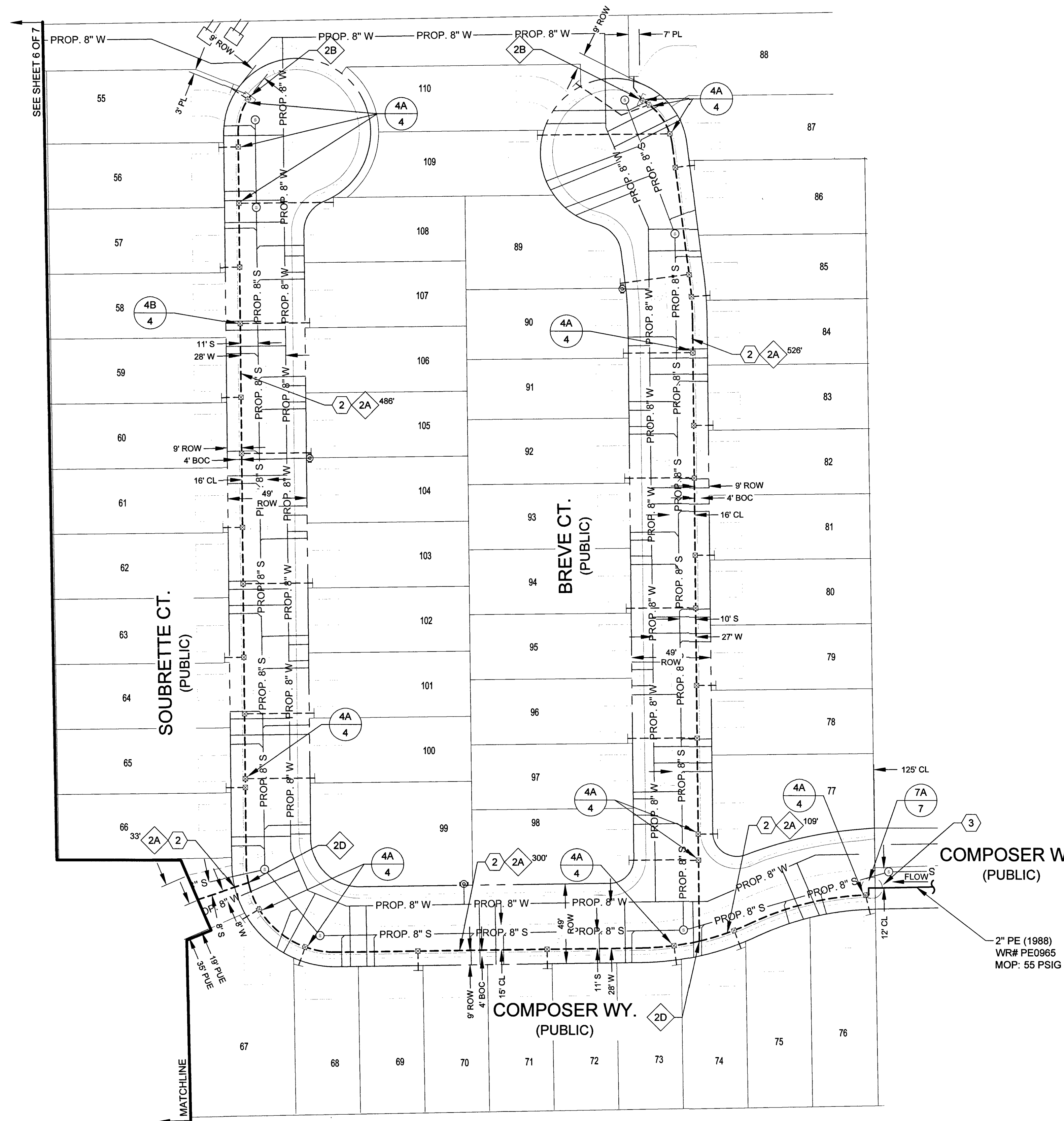
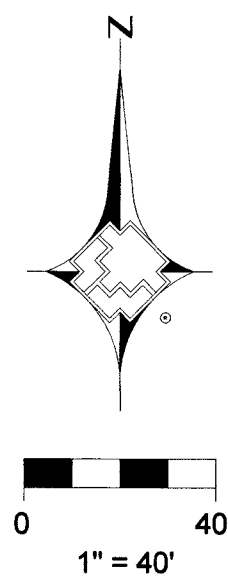


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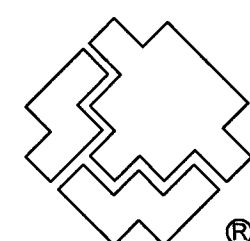
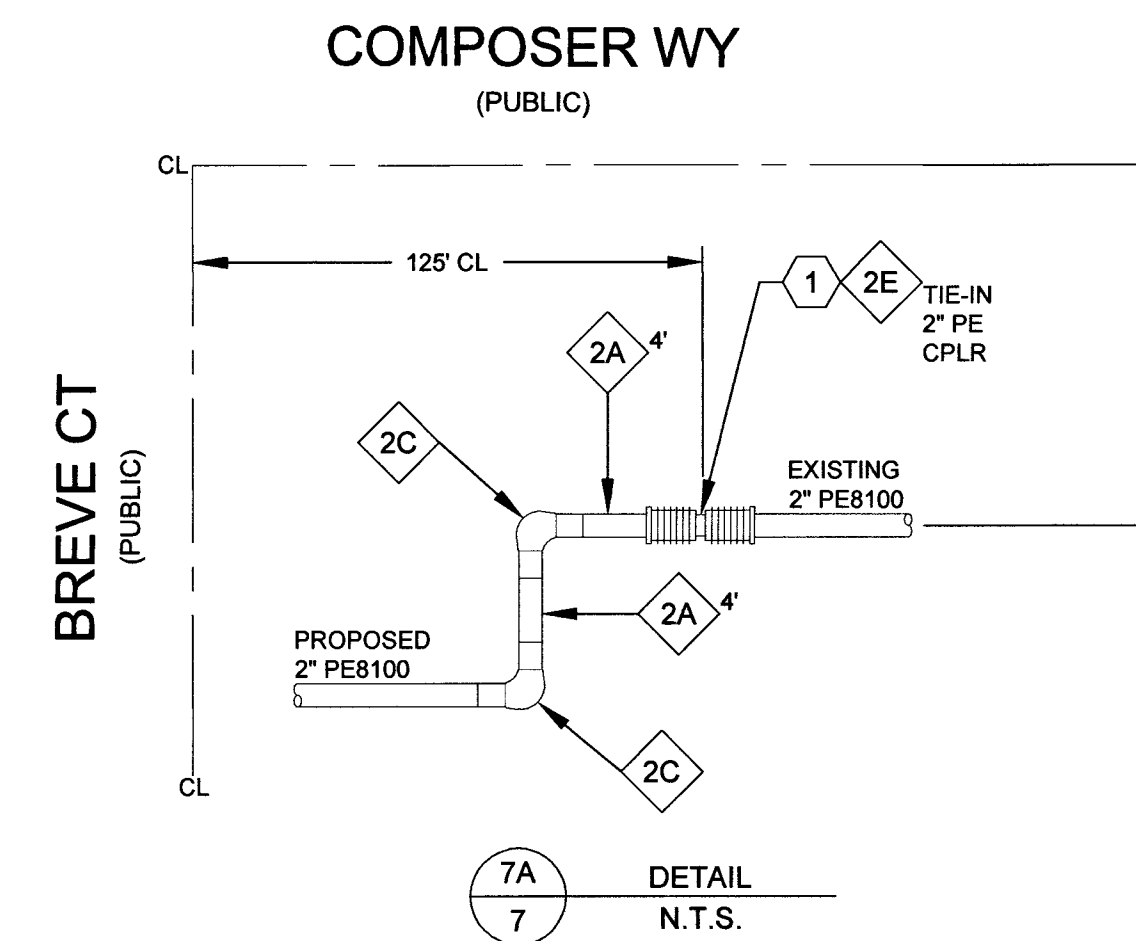
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REVISIONS					D_W_VALLEY		JOB TYPE	WR NO.	ENGINEER/TECHNICIAN	AMANDA HENDERSON	PHONE: (702) 365-2152
						SYSTEM MAOP: 60	HP SERVICE ☐	3771778	ACCOUNT REP.	TONY STIPANOV	PHONE: (702) 365-2053
						SYSTEM MOP: 55	DISTRIBUTION ☒		PROJECT CONTACT	DAVE VON OY	PHONE: (702) 376-7577
									SHEET NO. 6 OF 7	SCALE 1" = 40'	DATE 05/23/2019
NO.	DESCRIPTION			BY	DATE	APPVD.			DWN. BY SEI	CHKD. BY AH	APPVD. BY BWJ
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE			FEEDER ☐	RELATED WR NO.S	BLM 33 L18-02380 107Y5099		
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_232	T20S R60E SEC 28 M.D.M.	x591y518			TRANS. BY DEF ☐				
							TRANS > 20% ☐				



2" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
2A	1,462'	0'	100-5101	2" PE 8100 PIPE	N/A	N/A
2B	2	0'	140-3060	2" PE CAP	N/A	N/A
2C	2	0	140-3067	2" PE 90 DEGREE ELBOW	N/A	N/A
2D	2	0	140-3074	2" PE FULL FLOW TEE	N/A	N/A
2E	1	0	140-3532	2" PE COUPLING	N/A	N/A

CONSTRUCTION NOTES	
1	TIE NEW 2" PE8100 TO EXISTING 2" PE
2	503
3	500.4 - PAVEMENT CUT 5'

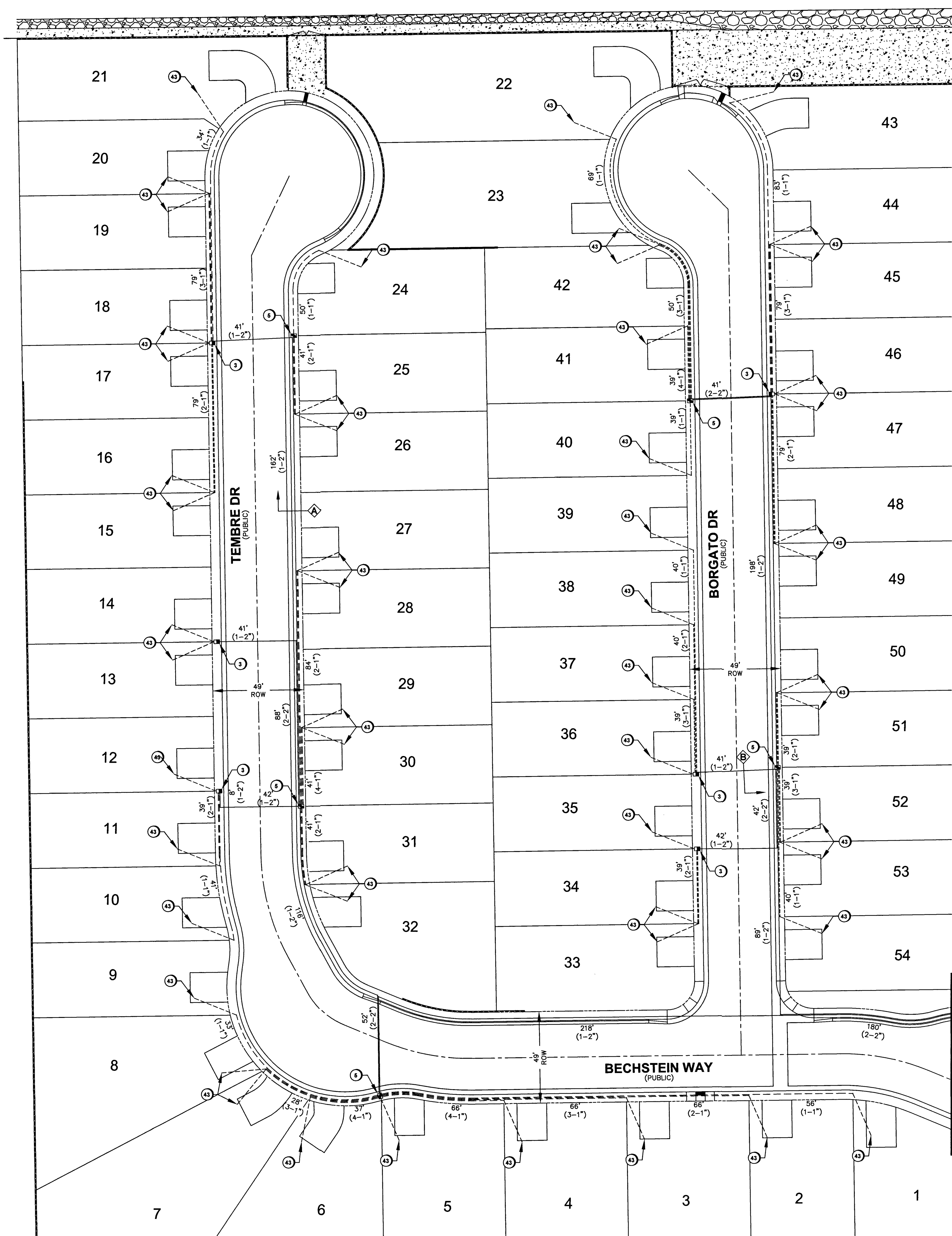


SOUTHWEST GAS CORPORATION

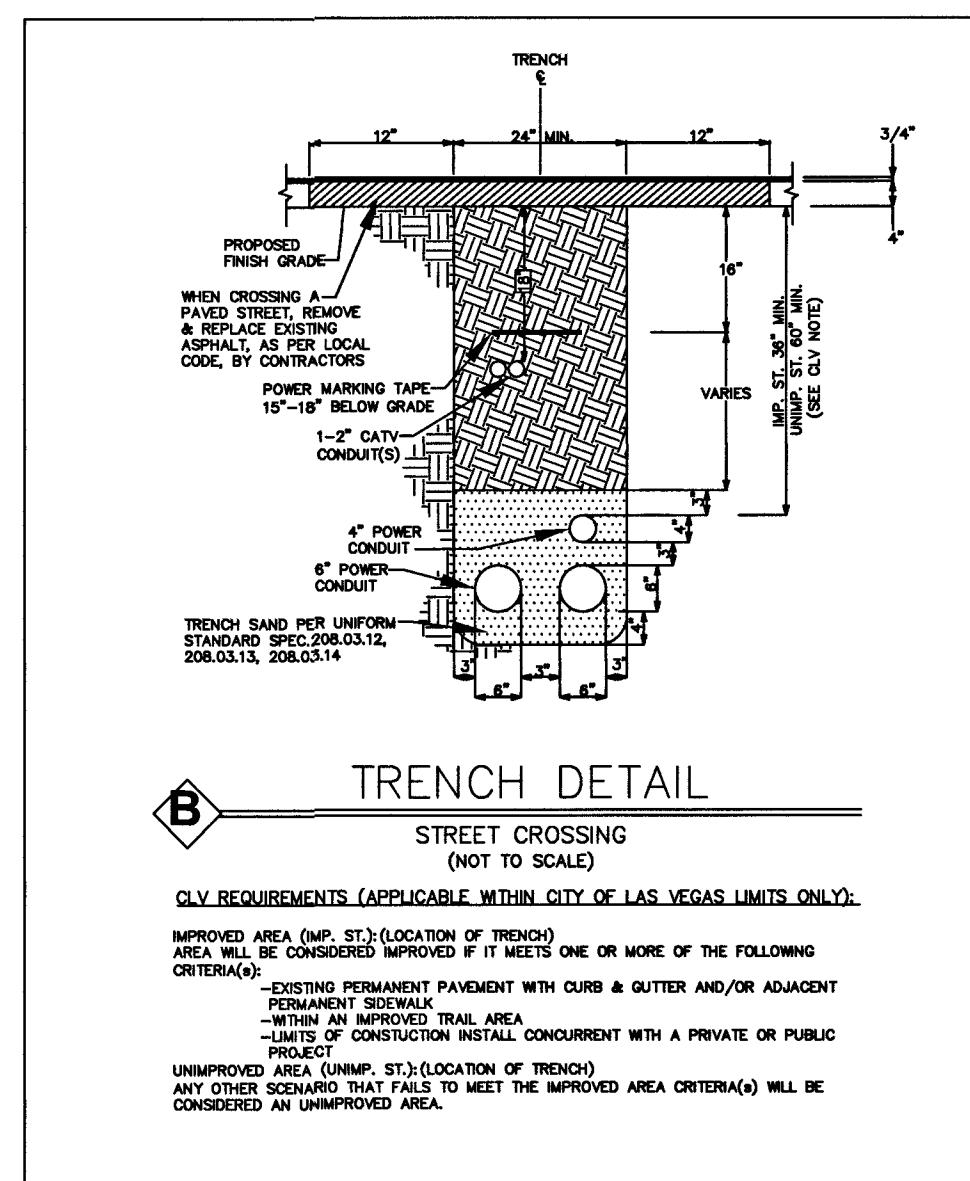
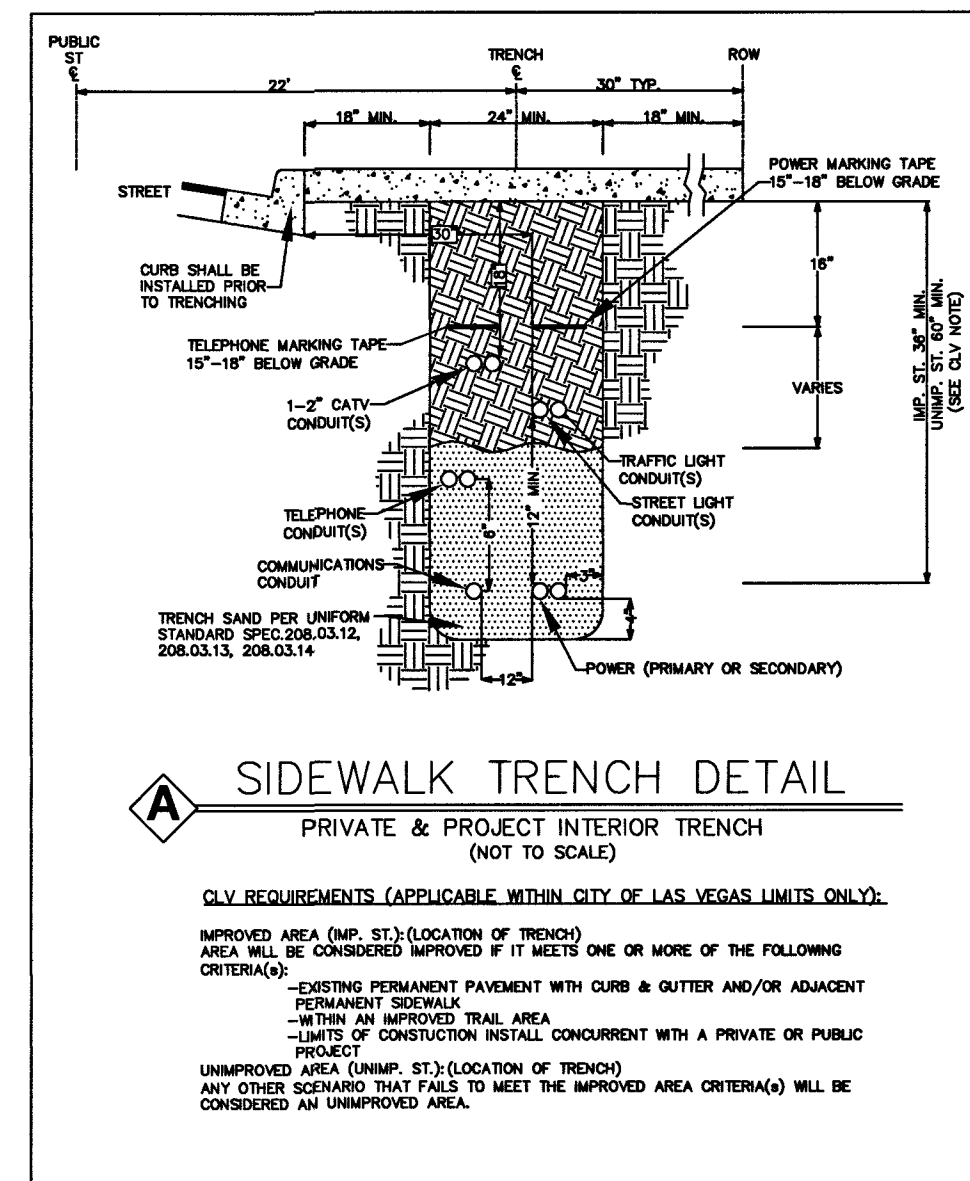
Southwest Gas Corporation Confidential and Proprietary Information
For Reference Only - Not Valid for Line Locating Purposes. No representation or warranty is made for the adequacy, accuracy, or completeness of the information or depictions shown. This information is protected from further disclosure under the federal Freedom of Information Act and the Protected Critical Infrastructure Information Act of 2002, and Nevada Revised Statutes § 239C.

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												ACCOUNT REP.			TONY STIPANOV			PHONE: (702) 365-2053		
												PROJECT CONTACT			DAVE VON OY			PHONE: (702) 376-7577		
												SHEET NO. 7 OF 7			SCALE 1" = 40'			DATE 05/23/2019		
NO.	DESCRIPTION				BY	DATE	APPVD					DWN. BY SEI			CHKD. BY AH			APPVD. BY BWJ		
PERMIT INFORMATION		ISOLATION AREA		LOCATION		ATLAS OR TILE				FEEDER		RELATED WR NO.S		BLM 33						
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_232		T20S R60E SEC 28 M.D.M.		x591y518		SYSTEM MAOP:		TRANS. BY DEF				L18-02380 107Y5099						
								SYSTEM MOP:		TRANS > 20%										



MATCHLINE - SEE SHEET 2



LEGEND	
1	INSTALL B-36 PULL BOX (24"x36"x24")
2	EXISTING B-36 PULL BOX (24"x36"x24")
3	INSTALL B-50 PULL BOX (13"x24"x24")
4	EXISTING B-50 PULL BOX (13"x24"x24")
5	INSTALL B-100 PULL BOX (24"x36"x24")
6	EXISTING B-100 PULL BOX (24"x36"x24")
7	INSTALL T-200 CATV VAULT (30"x48"x36")
8	EXISTING T-200 CATV VAULT (30"x48"x36")
9	INSTALL T-400 CATV VAULT (36"x60"x36")
10	EXISTING T-400 CATV VAULT (36"x60"x36")
11	INSTALL T-600 CATV VAULT (48"x72"x36")
12	EXISTING T-600 CATV VAULT (48"x72"x36")
13	INSTALL NEW CATV PEDESTAL/CABINET
14	EXISTING NEW CATV PEDESTAL/CABINET
15	R&R S/W SLAB(S)
16	POTHOLE
17	SIDEWALK/DIRT TRENCH INSTALL WITH FIBER/COAX PULL
18	ASPHALT MITIGATION/STREET TRENCH WITH FIBER/COAX PULL
19	PROPOSED BORE WITH FIBER/COAX PULL
20	EXISTING CATV CONDUIT(S)
21	PROPOSED OVERHEAD FIBER OPTIC CABLE OR COAX INSTALL
22	EXISTING OVERHEAD FIBER OPTIC CABLE OR COAX
23	U.G. FIBER/COAX PULL
24	RIGHT OF WAY LINE
25	LOT/PROPERTY LINE
26	EDGE OF PAVEMENT
27	P EXISTING NVE PULL BOX
28	T EXISTING TELCO PULL BOX
29	TM EXISTING TELCO MANHOLE
30	T EXISTING TELCO POLE
31	NVE EXISTING NVE POLE
32	NVE EXISTING NVE TRANSMISSION POLE
33	X EXISTING JOINT POLE
34	X EXISTING JOINT POLE WITH TRANSFORMER
35	POLE ANCHOR
36	NVE EXISTING NVE TRANSFORMER TRANSFORMER PAD
37	TS SNWA TEST STATION
38	COX POWER SUPPLY (49"x24"x52")
39	RC INSTALL RHINO CABINET
40	RISER POLE/QUADRANT DETAIL RISER OWNERSHIP NOTED
41	RAILROAD
42	EXISTING MANHOLE (SS),(SD)...ECT
43	1in CONDUIT LATERAL
44	STORMWATER ASSETS
45	

DISCLAIMER NOTE

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AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

BEFORE YOU DIG
OR 1-800-227-2600
UNDERGROUND SERVICE (USA)

AVOID OVERHEAD POWER LINE CONTACT

CALL BEFORE YOU OVERHEAD
1-702-227-2929
NEVADA POWER ENVIRONMENT AND SAFETY SERVICE DEPARTMENT

811

BEFORE YOU DIG
OR 1-800-227-2600
UNDERGROUND SERVICE (USA)

CALL BEFORE YOU UNDERGROUND
1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS AND 1-702-432-5300
LAS VEGAS AREA COMPUTERIZED SYSTEM

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

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CALL BEFORE YOU OVERHEAD
1-702-227-2929
NEVADA POWER ENVIRONMENT AND SAFETY SERVICE DEPARTMENT

T20S R60E SEC28

VICINITY MAP (NOT TO SCALE)

REVISIONS

REV	DESCRIPTION	DATE	BY
0			

APPROVED FOR CONSTRUCTION

THIS APPROVAL IS FOR WORK IN CLV R/W OR CLV EASEMENT ONLY. OBTAINING PERMISSION OR EASEMENT FOR WORK SHOWN IN PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

APPROVAL: *[Signature]* DATE: 7/25/19

CITY OF LAS VEGAS
333 N. RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 545-1606
FAX: (702) 545-2606

PROJECT LOCATION:
BLM 33
COMPOSER WAY & BEETHOVEN ST

SUB-CONTRACTOR:
DBA: COX COMMUNICATIONS

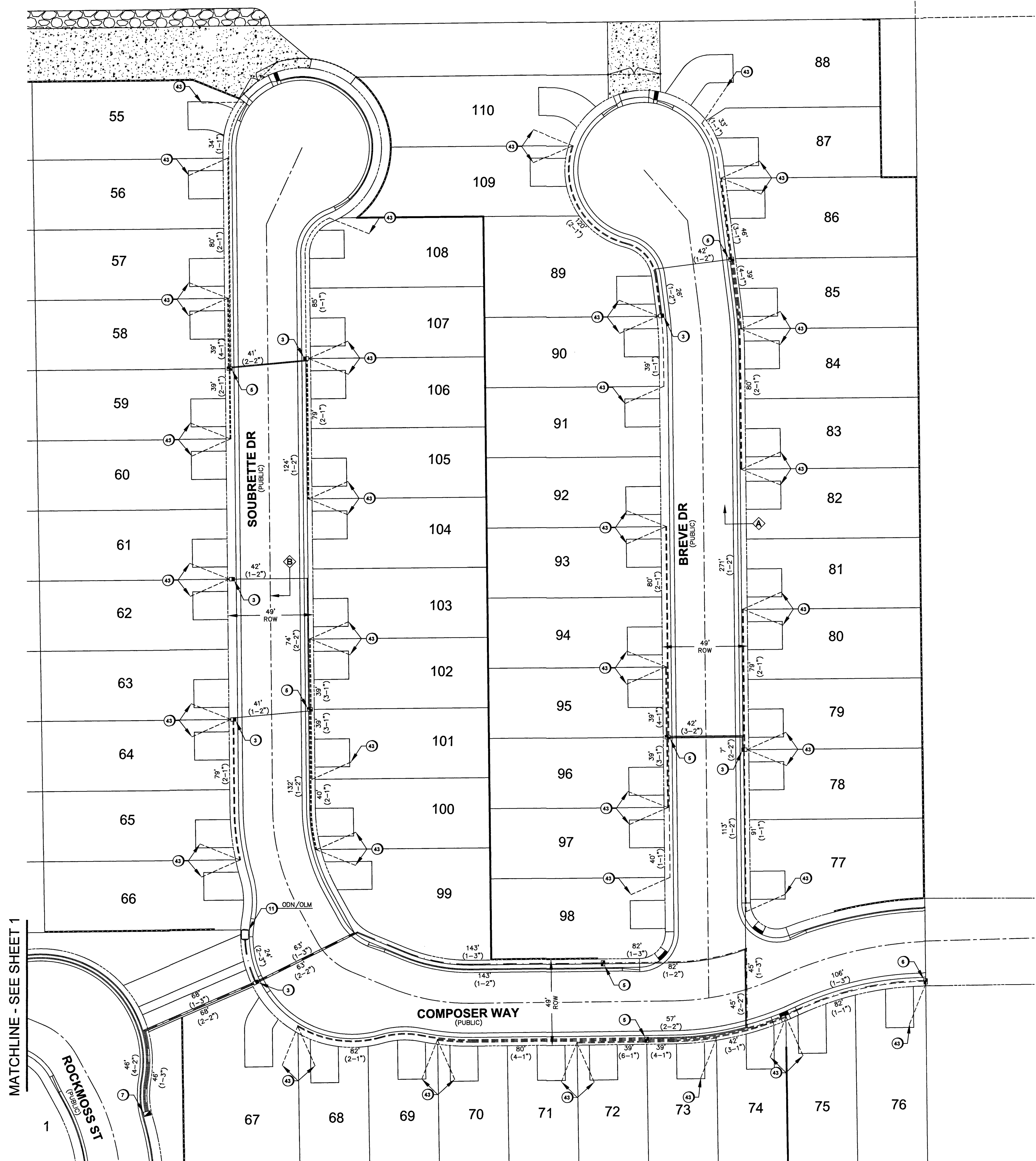
ENTITY NOTES:
13764

PROJECT LOCATION:
BLM 33
COMPOSER WAY & BEETHOVEN ST

SUB-CONTRACTOR:
DBA: COX COMMUNICATIONS

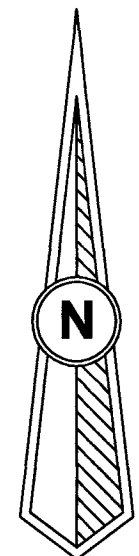
ENTITY NOTES:
13764

10745099
L18-02380



MATCHLINE - SEE SHEET 1

10745099
L18-02380



LEGEND	
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CALL BEFORE YOU DIG

OR 1-800-227-2600

UNDERGROUND SERVICE (USA)

AVOID OVERHEAD POWER LINE CONTACT

CALL BEFORE YOU OVERHEAD

1-702-227-2928

NEVADA POWER ENVIRONMENT AND SAFETY SERVICE DEPARTMENT

UNDERGROUND CALL BEFORE YOU CALL

UNDERGROUND CALL BEFORE YOU CALL

1-702-455-7611

CLARK COUNTY TRAFFIC OPERATIONS AND

1-702-432-5300

LAS VEGAS AREA COMPUTERIZED SYSTEM

TOTAL BORE 0'

TOTAL DIRT TRENCH 0'

TOTAL ASPHALT TRENCH 0'

TOTAL TRENCH 0'

SIDEWALK REMOVAL/REPAIR 0'

TOTAL S/W PANELS 0

TOTAL LINEAR FOOTAGE 0'

T20S R60E SEC28

VICINITY MAP (NOT TO SCALE)

REVISIONS

REV	DESCRIPTION	DATE	BY
0			

APPROVED FOR CONSTRUCTION

THIS APPROVAL IS FOR WORK IN CLV RW OR CLV EASEMENT ONLY. OBTAINING PERMISSION OR EASEMENT FOR WORK SHOWN IN PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

APPROVAL: *[Signature]* DATE: 7/25/19

CITY OF LAS VEGAS

333 N. RANCHO DRIVE

LAS VEGAS, NEVADA 89106

PHONE: (702) 545-1606

FAX: (702) 545-2606

CITY/ENTITY: BLM 33

PROJECT LOCATION: COMPOSER WAY & BEETHOVEN ST

SUB-CONTRACTOR: DBA: COX COMMUNICATIONS

ENTITY NOTES:

PERMIT # RB-2013

DRAWN BY: WTB

DATE: 3/18/2019

SCALE: 1:30

NODE: RB-2013

PROJECT #: 40505190000RB20130

TECH # 702-545-1590

APPROVED BY: MICHAEL HERVIS

CITY OF LAS VEGAS

COMPOSER WAY & BEETHOVEN ST

DBA: COX COMMUNICATIONS

PROJECT LOCATION: BLM 33

SUB-CONTRACTOR: DBA: COX COMMUNICATIONS

ENTITY NOTES:

311

BEFORE YOU DIG

OR 1-800-227-2600

UNDERGROUND SERVICE (USA)

311

BEFORE YOU OVERHEAD

1-702-227-2928

NEVADA POWER ENVIRONMENT AND SAFETY SERVICE DEPARTMENT

UNDERGROUND CALL BEFORE YOU CALL

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1-702-455-7611

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TOTAL ASPHALT TRENCH 0'

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SIDEWALK REMOVAL/REPAIR 0'

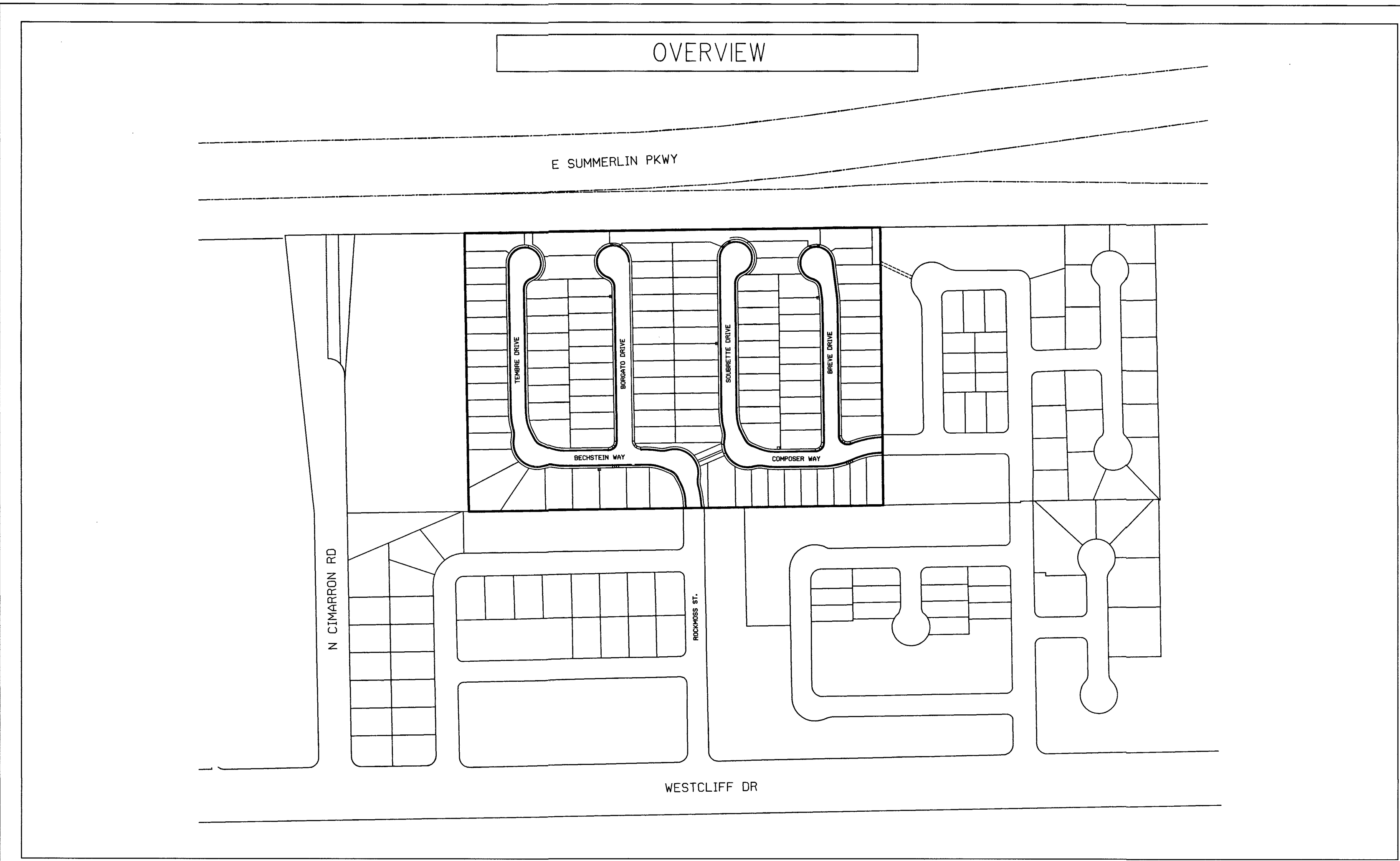
TOTAL S/W PANELS 0

TOTAL LINEAR FOOTAGE 0'

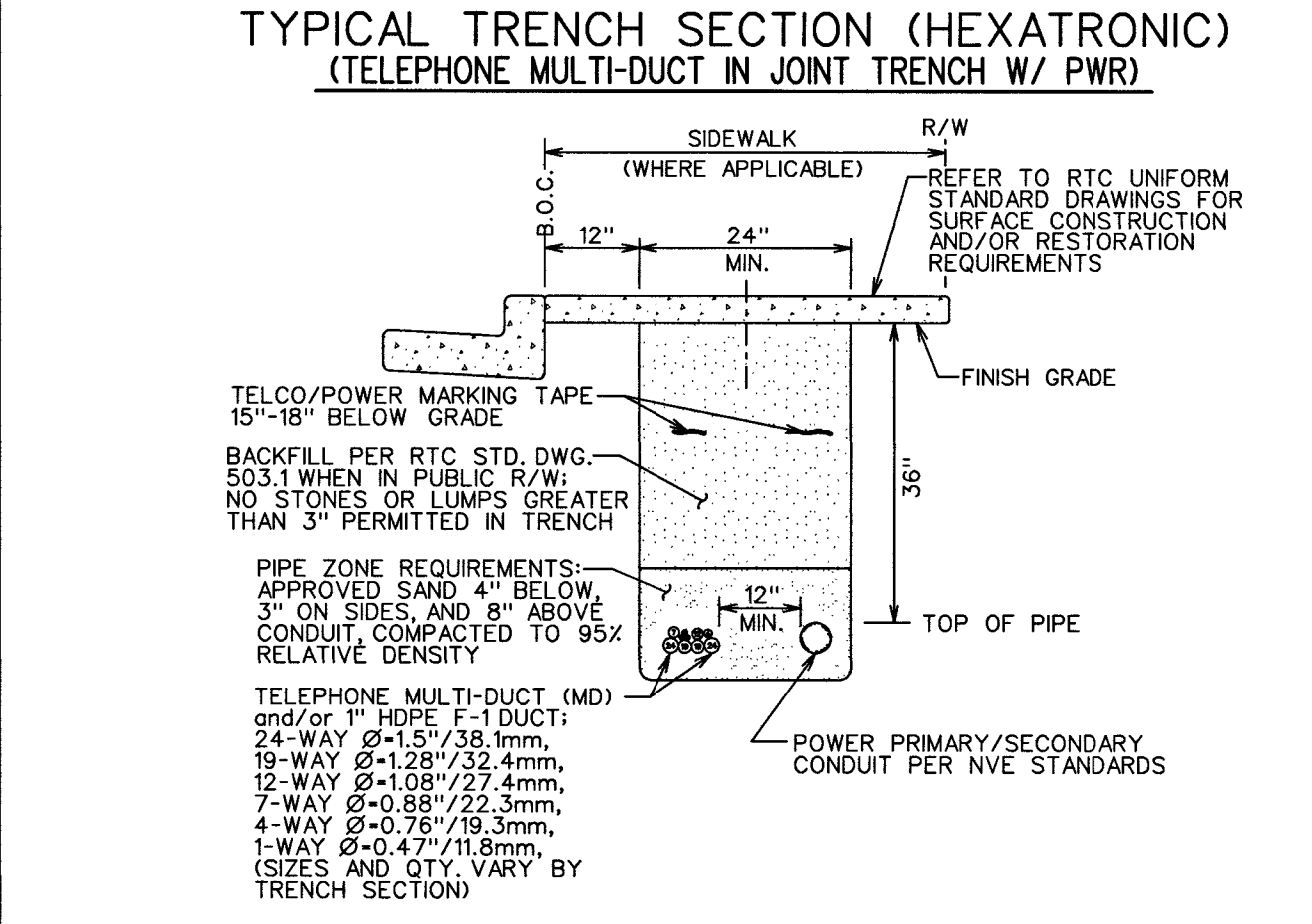
233

Sheet 2 of 2

OVERVIEW



TYPICAL TRENCH SECTION (HEXATRONIC)
(TELEPHONE MULTI-DUCT IN JOINT TRENCH W/ PWR)



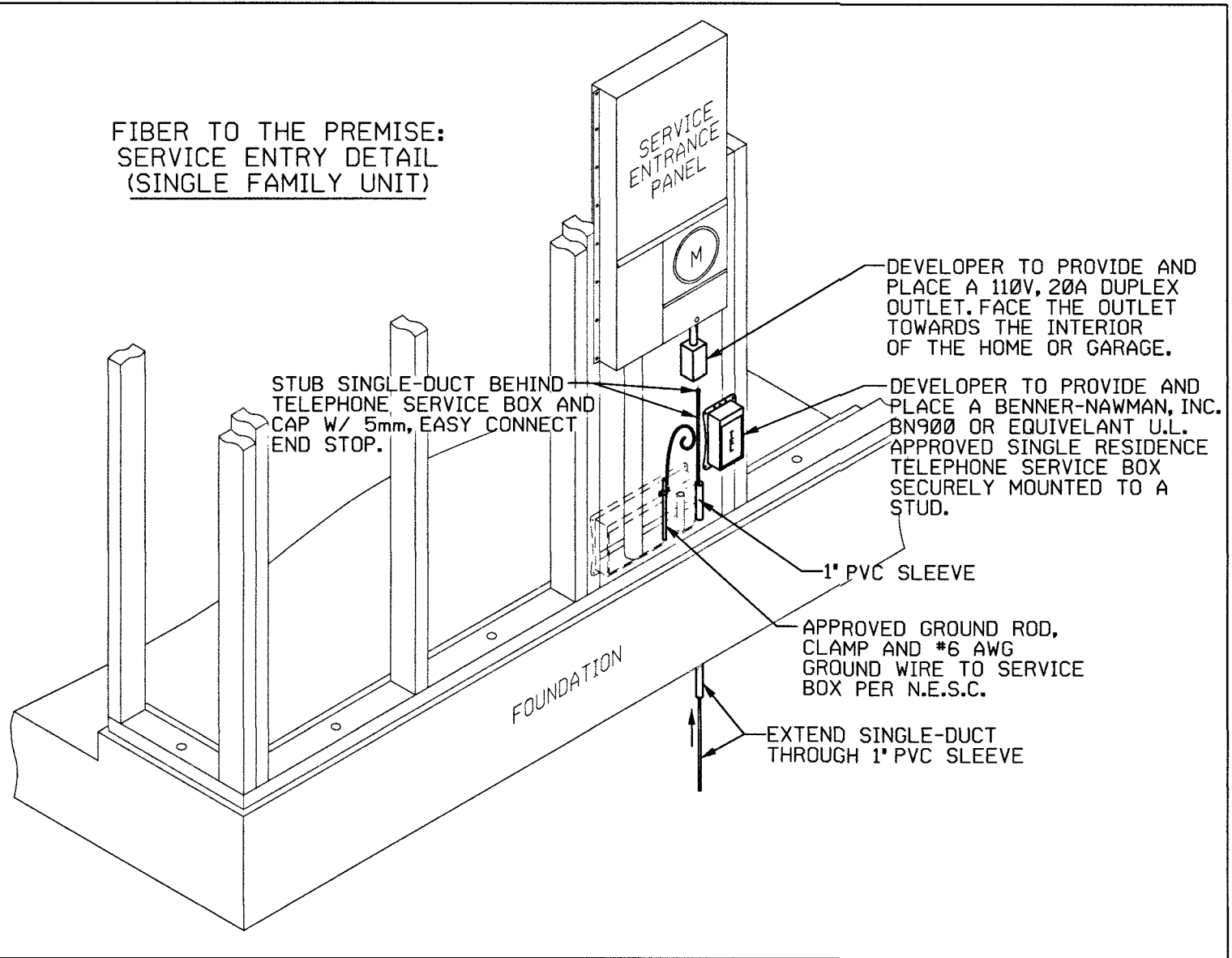
RTC SOUTHERN NEVADA NOTES:

- FOR ASPHALT CUT AND RESTORATION REQUIREMENTS, SEE RTC UNIFORM STANDARD DRAWING SERIES 500.1, 500.2, 500.3, 500.4 AND 500.5
- FOR SIDEWALK REMOVAL AND REPLACEMENT REQUIREMENTS SEE RTC UNIFORM STANDARD DRAWING 234
- FOR TYPICAL U.G. UTILITY LOCATIONS UNDER STREETS AND SIDEWALKS, SEE RTC UNIFORM STANDARD DRAWINGS 501 AND 501.1
- FOR BACKFILL REQUIREMENTS SEE RTC UNIFORM STANDARD DRAWING 503.1
- SEE COMPLETE RTC UNIFORM STANDARD DRAWINGS FOR FURTHER AGENCY REQUIREMENTS

DEVELOPER/CONTRACTOR NOTE:
CALL CENTURYLINK'S CONTROL CENTER AT 702-244-7811 TO SCHEDULE INSPECTIONS OF OPEN TRENCH AS REQUIRED. ALLOW 48 HOURS ADVANCE NOTICE FOR DIRECT BURIED MULTI-DUCT IN OPEN TRENCH AND SIDE-LOT TRENCH SECTIONS. THE 48 HOURS BEGINS AFTER THE CENTURYLINK INSPECTOR APPROVES THE OPEN TRENCH.

DEVELOPER: D.R. HORTON, INC.
CONTACT: DAVE VON-OY
CONTACT #: 702-379-7577
NMBR OF LOTS: 110
NMBR OF GATE SVC'S: 0
NMBR OF POOL SVC'S: 0

FIBER TO THE PREMISE:
SERVICE ENTRY DETAIL
(SINGLE FAMILY UNIT)



DEVELOPER TO PROVIDE AND PLACE A 110V, 20A DUPLEX OUTLET, FACE THE OUTLET TOWARDS THE INTERIOR OF THE HOME OR GARAGE.

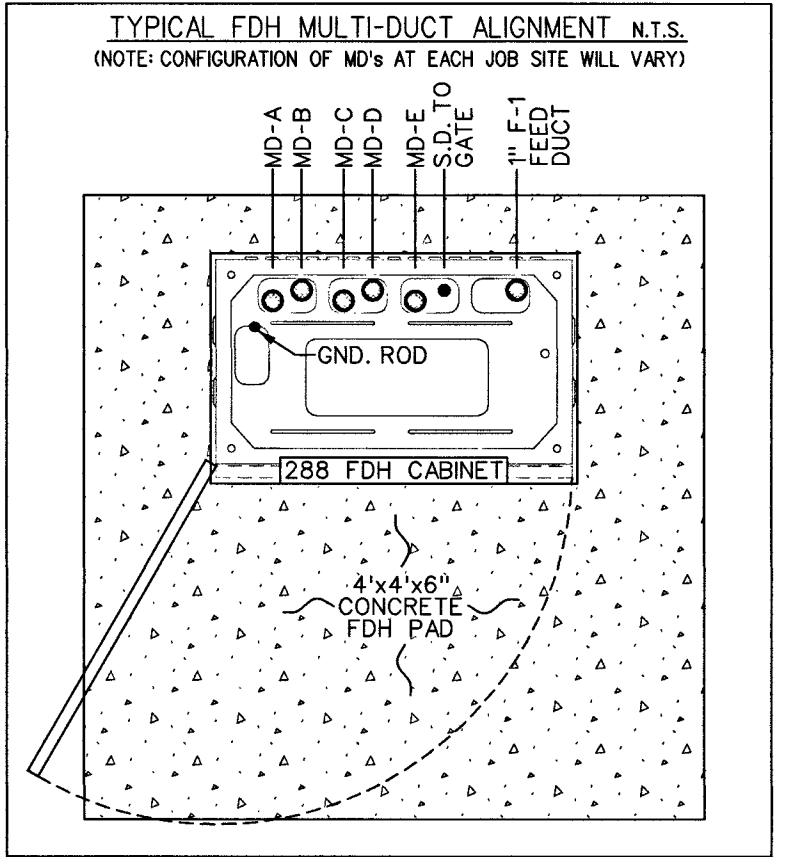
DEVELOPER TO PROVIDE AND PLACE A BENNER-NAWMAN, INC. BN900 OR EQUIVALENT U.L. APPROVED SINGLE RESIDENCE TELEPHONE SERVICE BOX SECURELY MOUNTED TO A STUD.

1" PVC SLEEVE

APPROVED GROUND ROD, CLAMP AND #6 AWG GROUND WIRE TO SERVICE BOX PER N.E.S.C.

EXTEND SINGLE-DUCT THROUGH 1" PVC SLEEVE

TYPICAL FDH MULTI-DUCT ALIGNMENT N.T.S.
(NOTE: CONFIGURATION OF MD'S AT EACH JOB SITE WILL VARY)



THIS PROJECT HAS BEEN DESIGNED AS JOINT TRENCH WITH NV ENERGY PER THE LATEST NV ENERGY PLAN. NOTIFY THE CENTURYLINK ENGINEER IMMEDIATELY IF REVISIONS OCCUR.

THIS DRAWING MAY SHOW APPROXIMATE LOCATIONS OF KNOWN UTILITIES IN THE IMMEDIATE VICINITY OF THE WORK TO BE DONE, BUT CENTURYLINK DOES NOT GUARANTEE OR ASSUME LIABILITY FOR THEIR POSITION OR DEPTH. CONTRACTORS SHALL DETERMINE TO THEIR SATISFACTION THE ACTUAL POSITION AND DEPTH OF EXISTING UTILITIES AS THEY WILL ASSUME THIS LIABILITY DURING THE PERFORMANCE OF THIS WORK.

APPROVED FOR CONSTRUCTION

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 7/25/19
APPROVAL DATE

Project Description: RESIDENTIAL FIBER TO THE PREMISE (FTTP) T&S - HEXATRONIC

Project * N.503475

Community Name: BLM 33 SUBDIVISION

Exchange Key: WEST WEST

WC CLLI: LSVGNVXW

Remote Switch Exchange Key: N/A

Engineering Contact
Contract Engineer

Construction Coordinator

Revision 1:
Revision 2:

Name: Lori Johnson
Phone Number: 702-244-7899

Name: Kyle Cummings

Name: Stacie Booth
Phone Number: 702-244-7830

INSPECTOR: _____

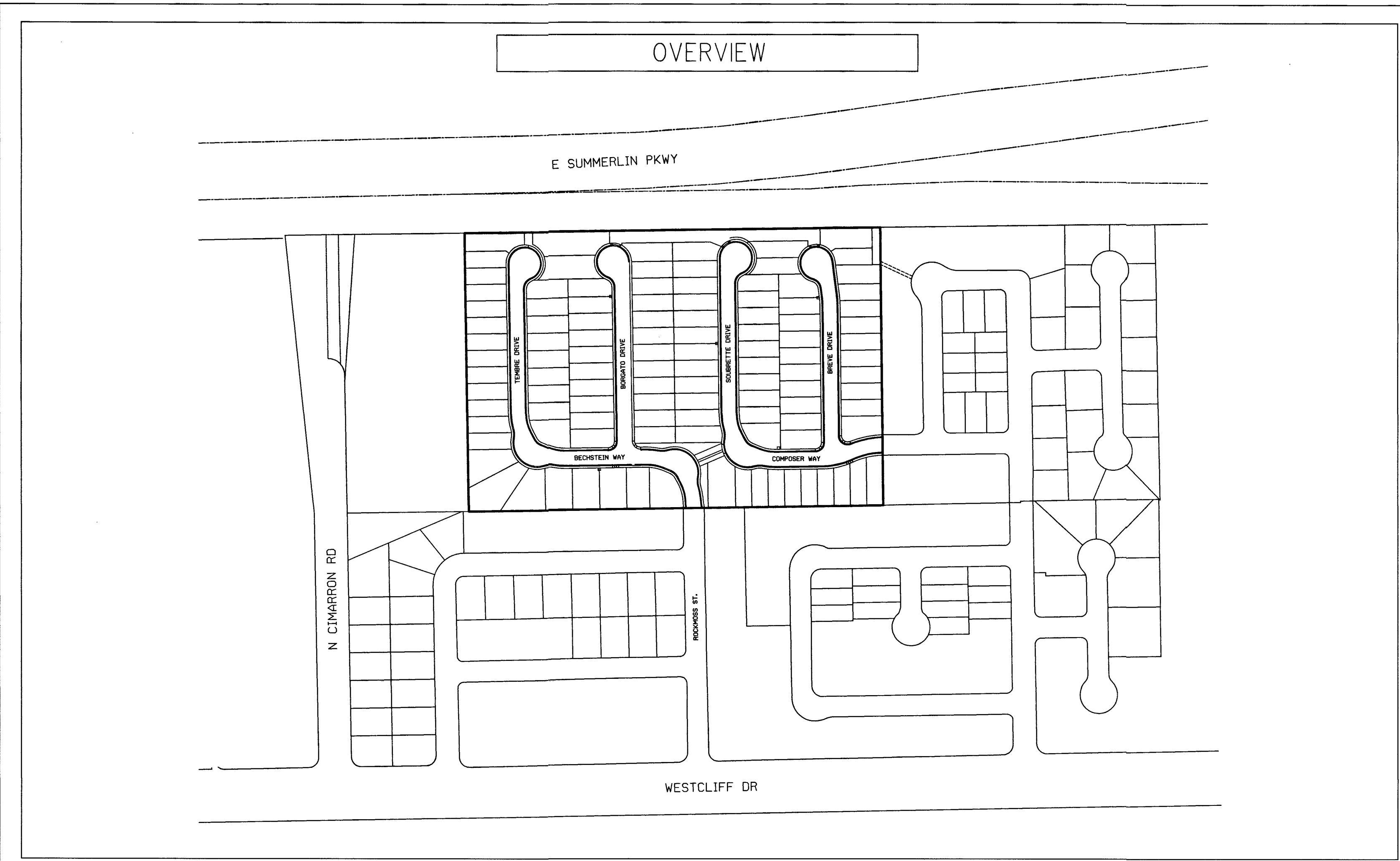
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 CenturyLink™

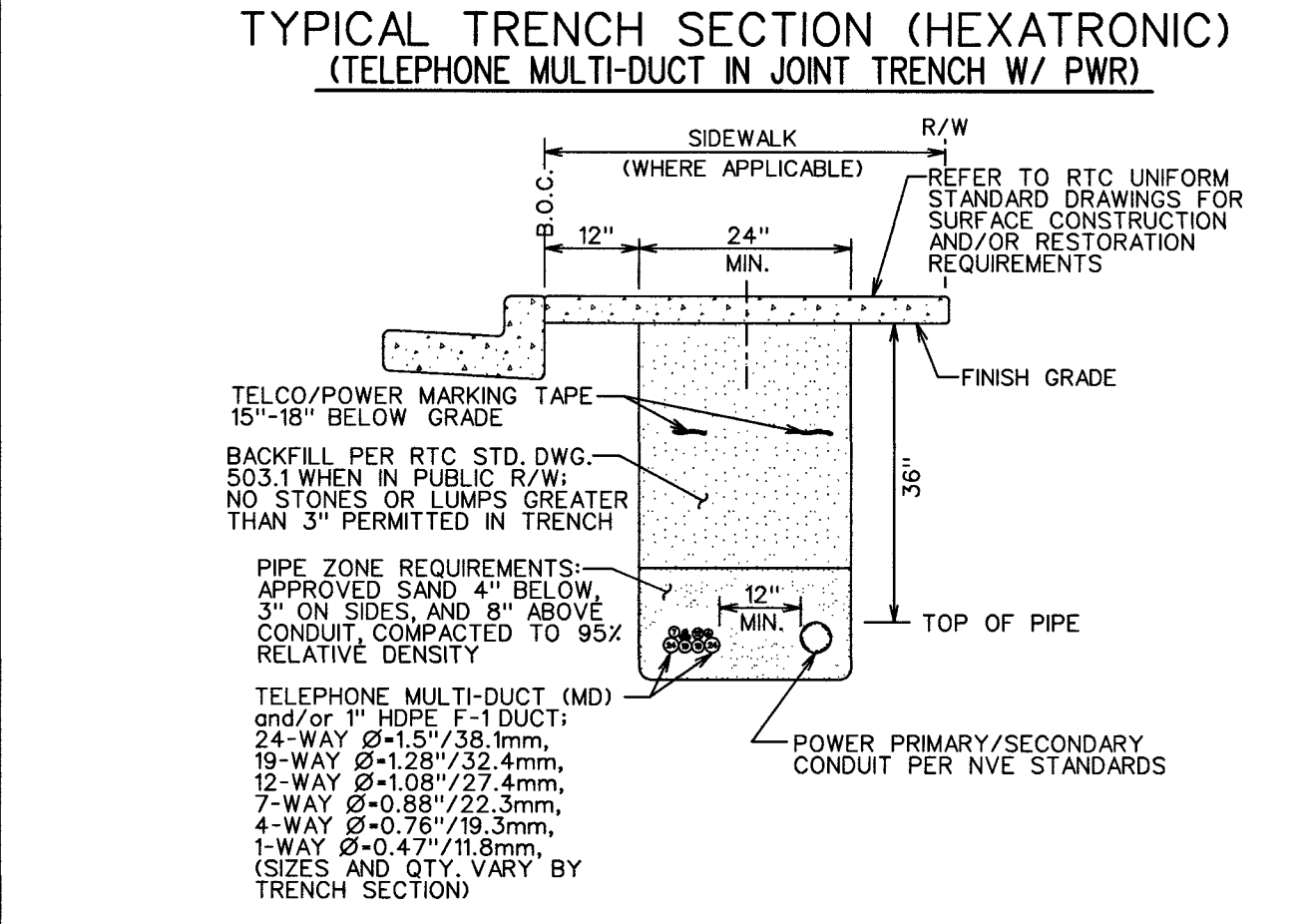
CONFIDENTIAL-Disclose and Distribute Solely to CTL Employees Having a Need to Know.

Sheet: 1 Issue Date: 3/4/19

OVERVIEW



TYPICAL TRENCH SECTION (HEXATRONIC)
(TELEPHONE MULTI-DUCT IN JOINT TRENCH W/ PWR)



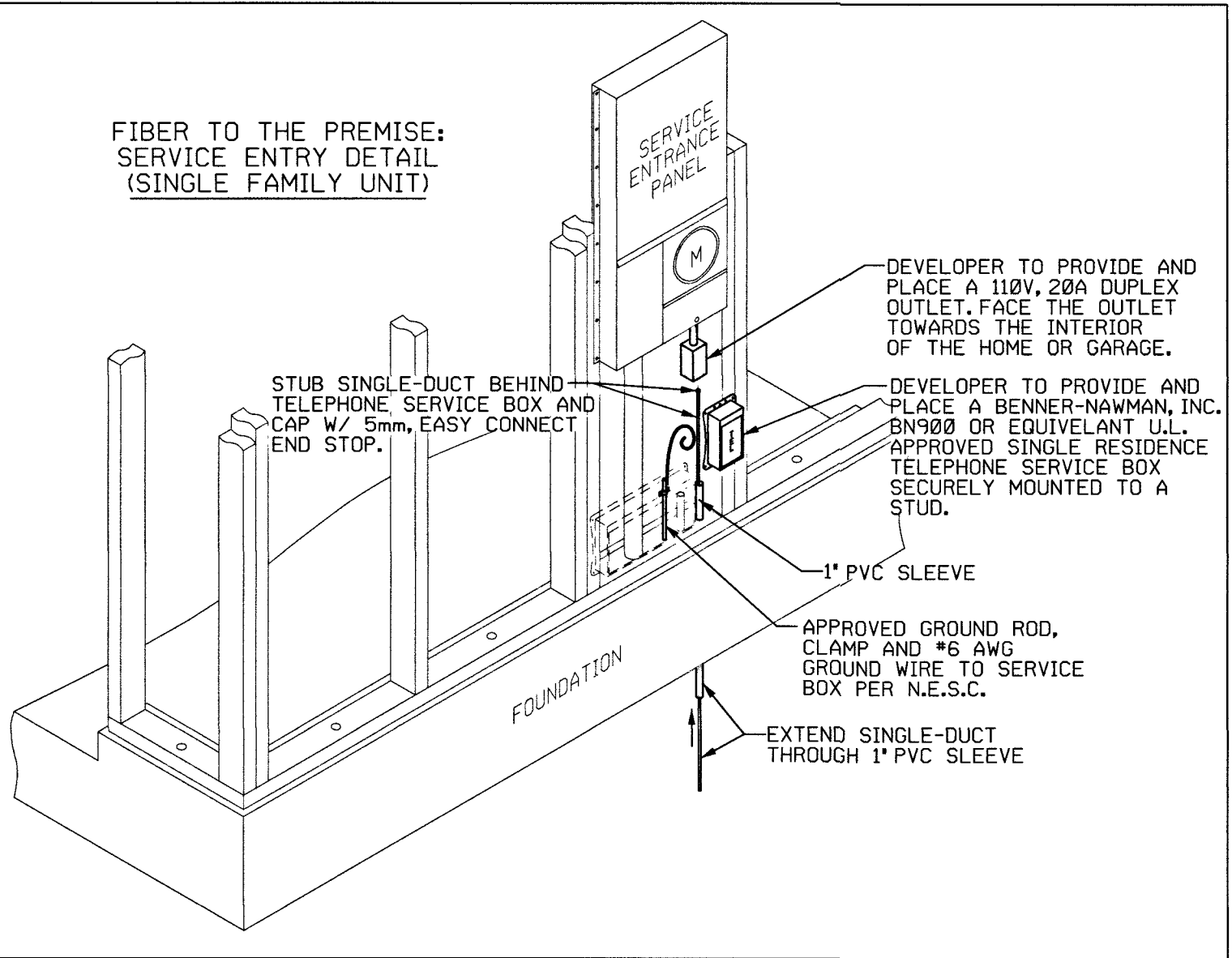
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DEVELOPER/CONTRACTOR NOTE:
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CONTACT: DAVE VON-OY
CONTACT #: 702-379-7577
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NMBR OF GATE SVC'S: 0
NMBR OF POOL SVC'S: 0

FIBER TO THE PREMISE:
SERVICE ENTRY DETAIL
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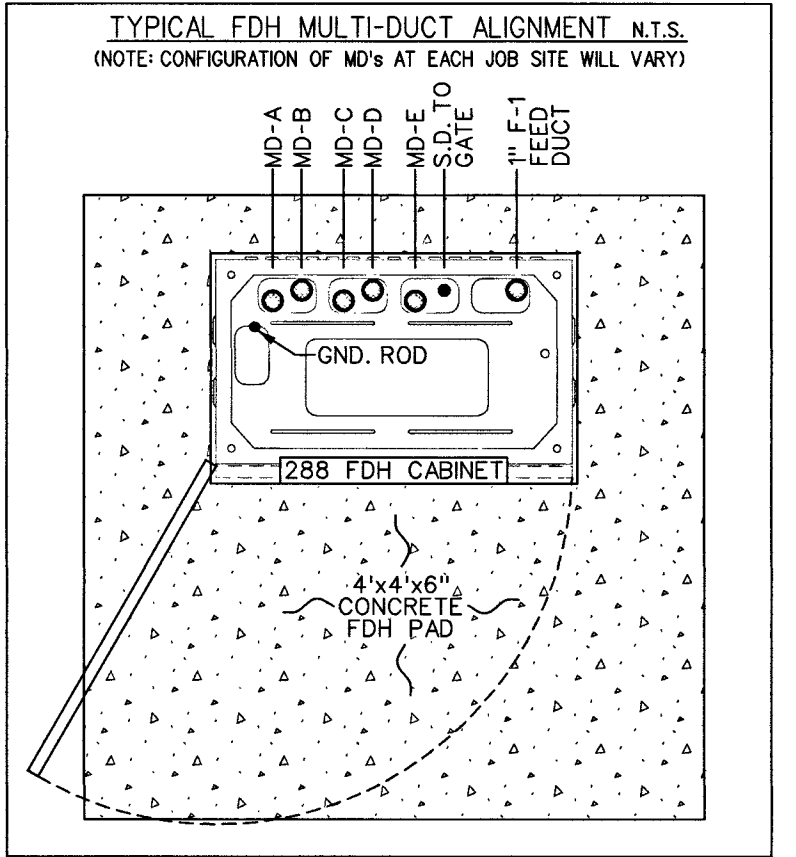
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 7/25/19
APPROVAL DATE

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Project * N.503475

Community Name: BLM 33 SUBDIVISION

Exchange Key: WEST WEST

WC CLLI: LSVGNVXW

Remote Switch Exchange Key: N/A

Engineering Contact
Contract Engineer

Construction Coordinator

Revision 1:
Revision 2:

Name: Lori Johnson
Phone Number: 702-244-7899

Name: Kyle Cummings

Name: Stacie Booth
Phone Number: 702-244-7830

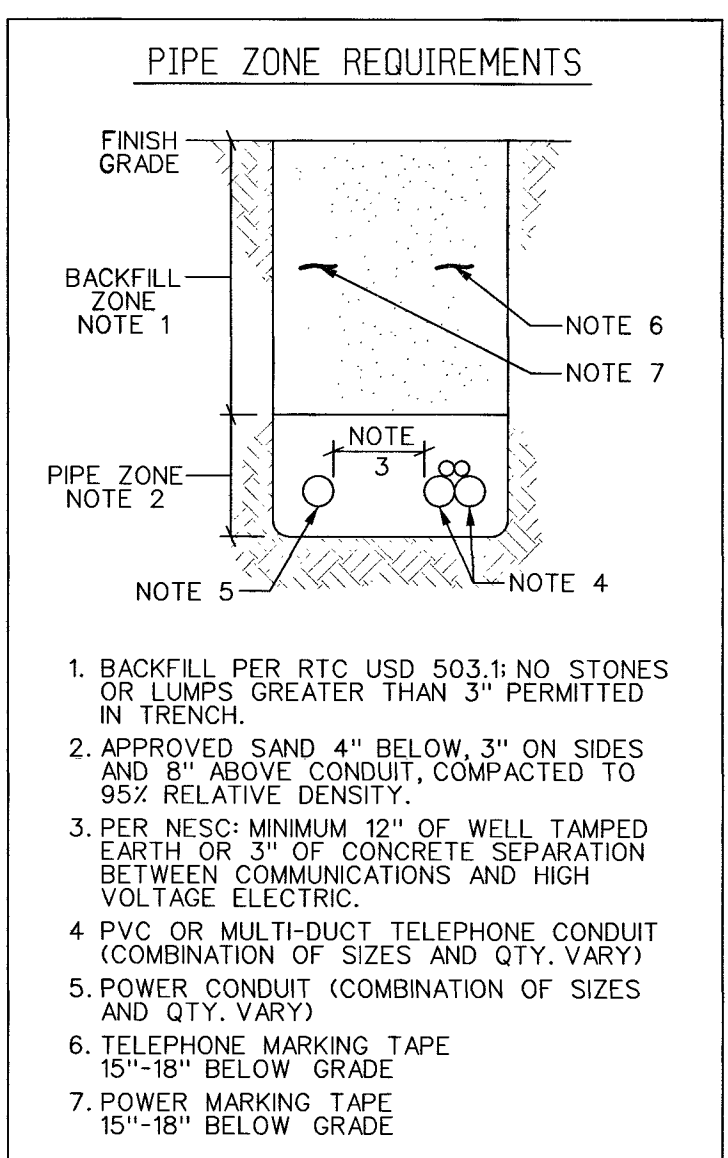
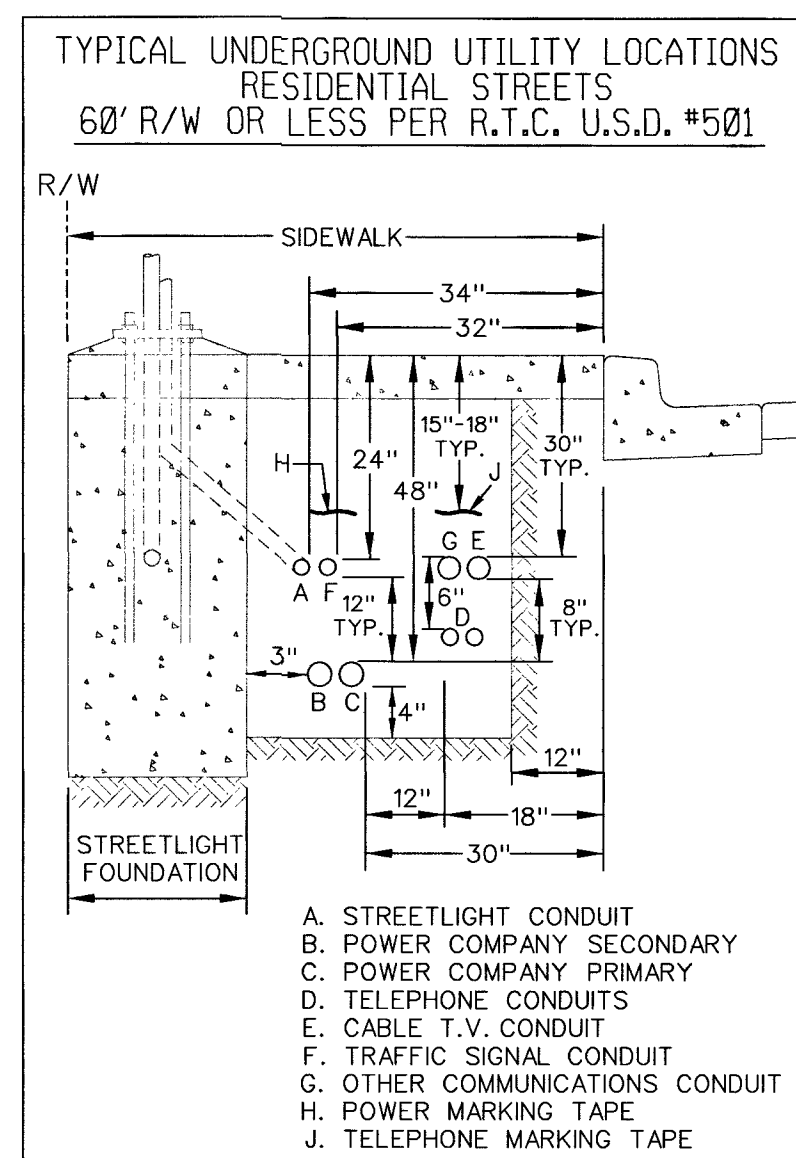
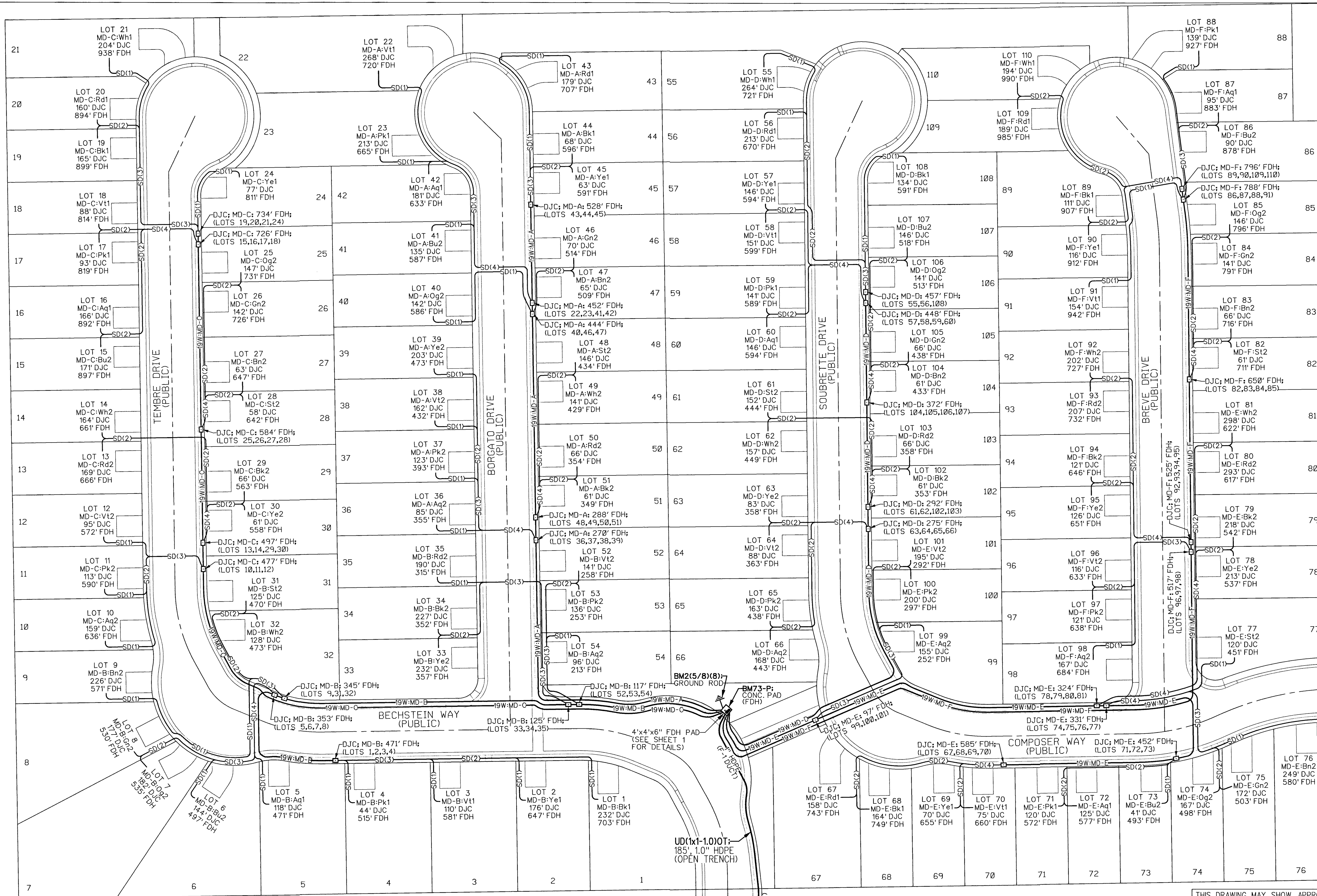
INSPECTOR: _____

DATE: _____

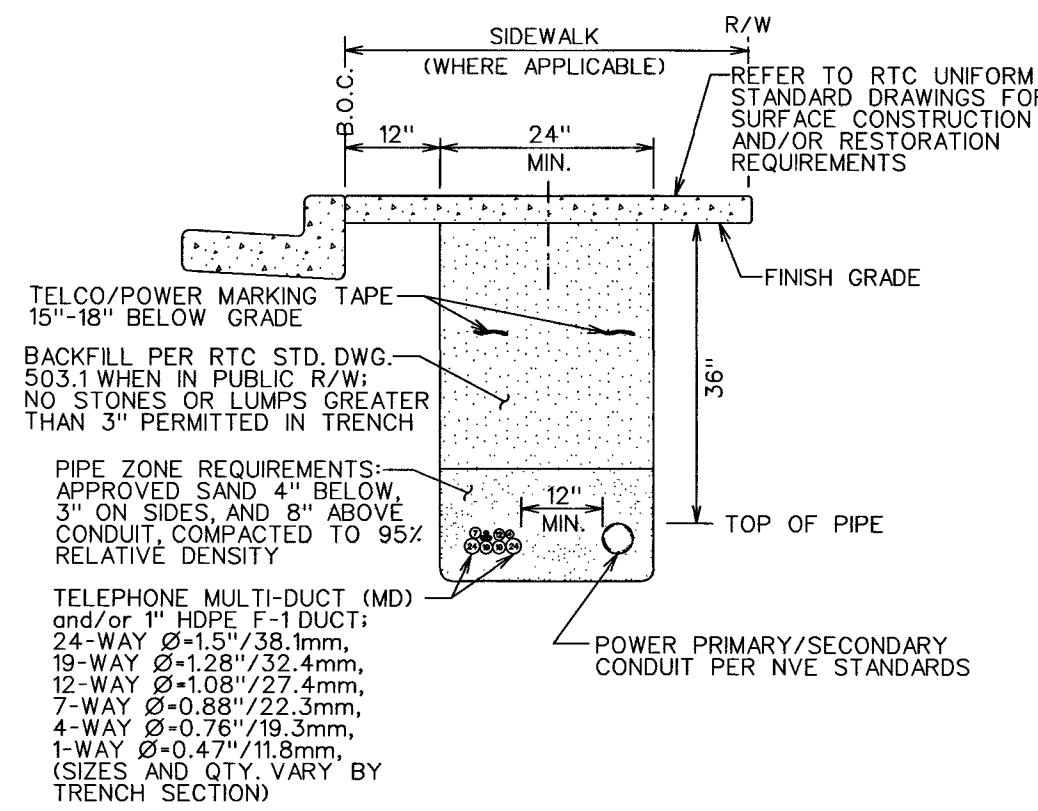
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Sheet: 1 Issue Date: 3/4/19



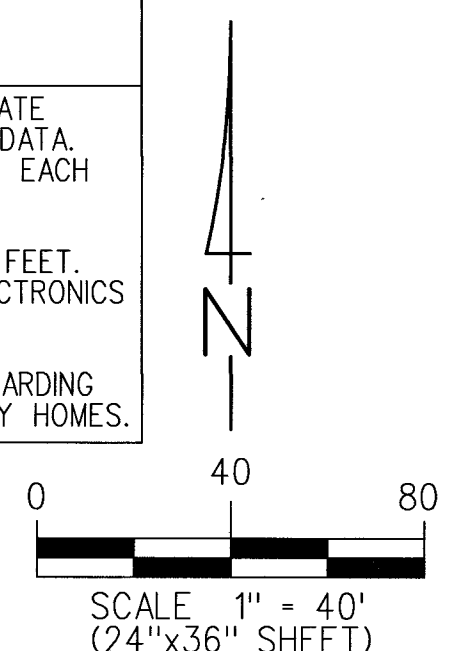
TYPICAL TRENCH SECTION (HEXATRONIC) (TELEPHONE MULTI-DUCT IN JOINT TRENCH W/ PWR)



TOTAL HEXATRONIC QUANTITIES:		
MATERIAL (HEX)	DESIGN EST.	ORDER QTY.
19W MULTI-DUCT	3,568'	4,920'
1W SINGLE-DUCT	15,558'	18,040'
DJC	30 EACH	30 EACH

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

FIBER TO THE PREMISE (FTTP) / SINGLE FAMILY HOMES MINIMUM INSIDE WIRING REQUIREMENTS FOR CUSTOMER OWNED PREMISE WIRE (COPW)
CUSTOMER OWNED PREMISE WIRE (COPW) SHALL CONSIST OF ONE SEPARATE CAT-5E/CAT6 FOR VOICE AND ONE SEPARATE CAT-5E/CAT6 FOR VIDEO/DATA. COPW SHALL BE RAN FROM THE OUTDOOR TELEPHONE SERVICE BOX TO EACH RJ11 (VOICE) AND RJ45 (DATA) JACK AS DESIGNATED BY THE BUILDER.
CAT5E/CAT6 CABLE HAS AN EFFECTIVE RANGE OF 100 METERS OR 328 FEET. THE TOTAL LENGTH BETWEEN THE OUTDOOR DEMARK AND THE END ELECTRONICS SHOULD NOT EXCEED 328 FEET.
CONTACT THE CENTURYLINK ENGINEER FOR ADDITIONAL INFORMATION REGARDING CENTURYLINK'S FIBER TO THE PREMISE DEPLOYMENTS FOR SINGLE FAMILY HOMES.



DEVELOPER/CONTRACTOR NOTE:
CALL CENTURYLINK'S CONTROL CENTER AT 702-244-7811 TO SCHEDULE INSPECTIONS OF OPEN TRENCH AS REQUIRED. ALLOW 48 HOURS ADVANCE NOTICE FOR DIRECT BURIED MULTI-DUCT IN OPEN TRENCH AND SIDE-LOT TRENCH SECTIONS. THE 48 HOURS BEGINS AFTER THE CENTURYLINK INSPECTOR APPROVES THE OPEN TRENCH.

F-1: FIBER FEED DUCT & FDH PAD
F-2: HEXATRONIC LAYOUT

SINGLE-DUCT (S.D.) NOTE:
1) CONTRACTOR TO COIL, TEST AND END CAP THE SINGLE-DUCT (S.D.) AT EACH LOT LINE WHERE DESIGNATED ON THE DRAWINGS.
2) LABEL EACH S.D. WITH THE LOT NUMBER.
3) LEAVE SUFFICIENT AMOUNT OF SINGLE-DUCT COILED AT THE SIDE LOT TRENCH TO REACH THE ENTRY POINT OF EACH HOME. NOTE THAT LENGTHS VARY TO EACH HOME DUE TO VARYING SETBACKS AT EACH LOT.
4) S.D. WILL BE EXTENDED TO EACH HOME AT A LATER DATE WHEN THE SIDE LOT TRENCHES ARE OPENED.

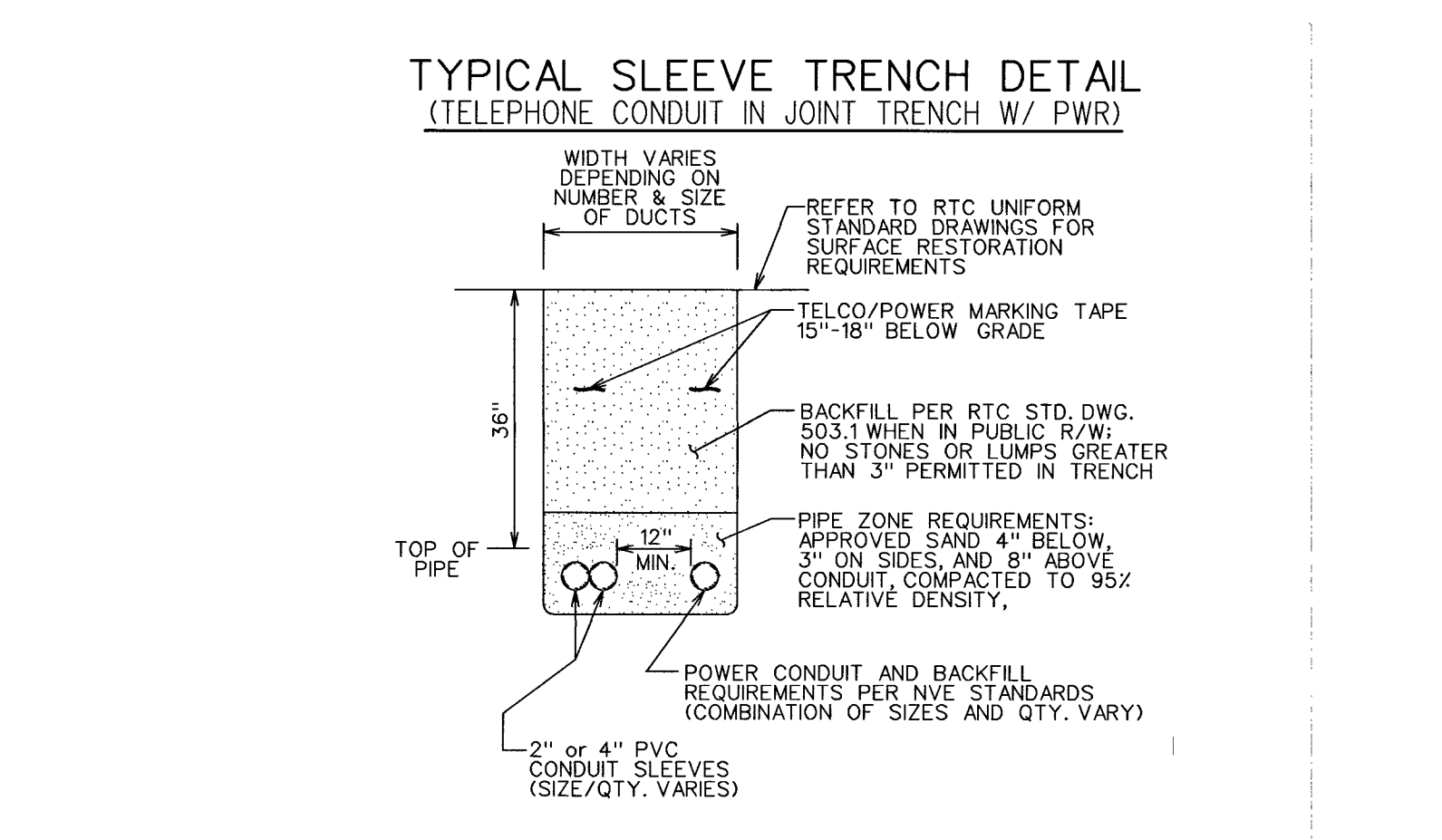
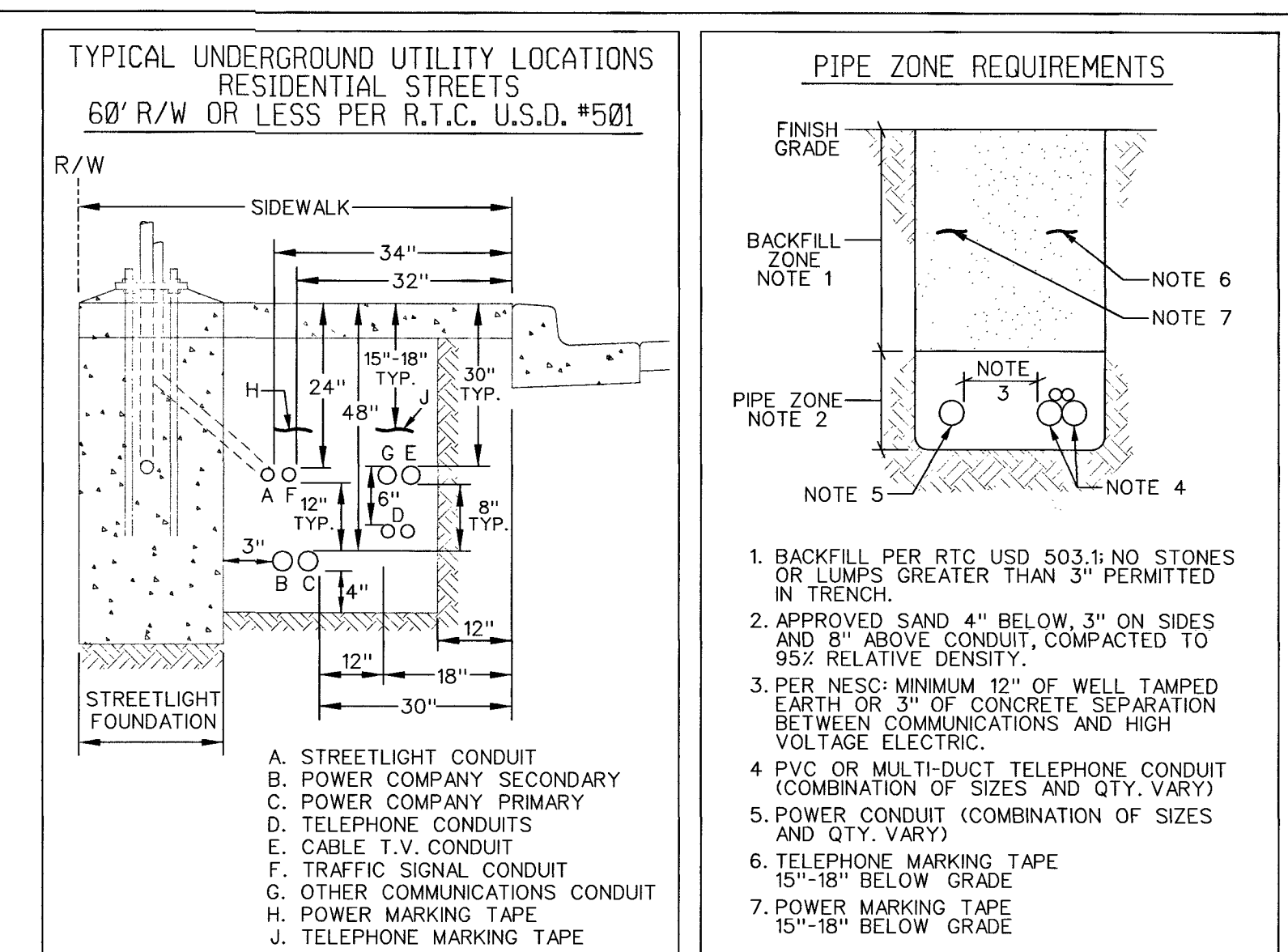
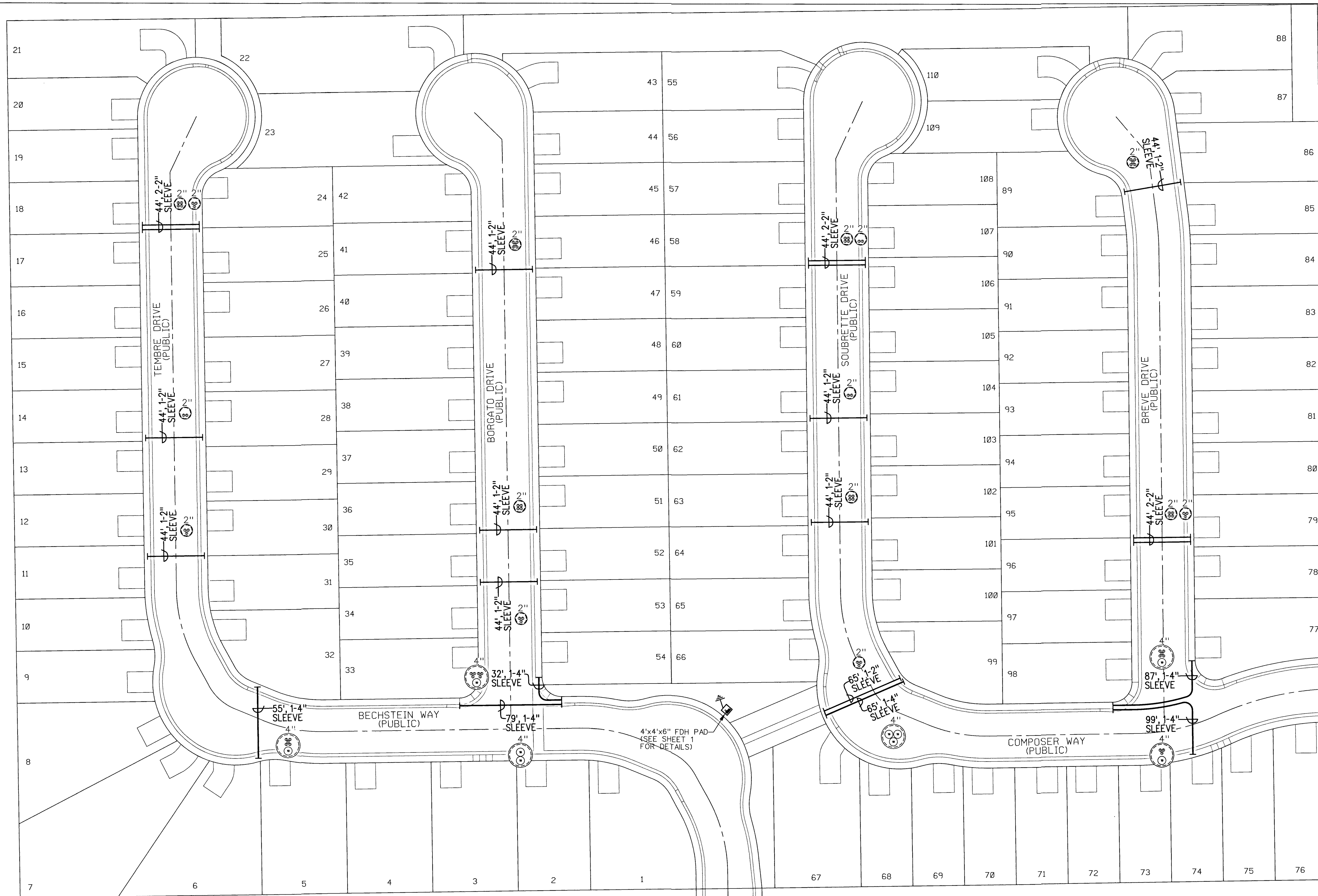
RTC SOUTHERN NEVADA NOTES:
• FOR ASPHALT CUT AND RESTORATION REQUIREMENTS, SEE RTC UNIFORM STANDARD DRAWING SERIES 500.1, 500.2, 500.3, 500.4 AND 500.5
• FOR SIDEWALK REMOVAL AND REPLACEMENT REQUIREMENTS SEE RTC UNIFORM STANDARD DRAWING 234
• FOR TYPICAL U.G. UTILITY LOCATIONS UNDER STREETS AND SIDEWALKS, SEE RTC UNIFORM STANDARD DRAWINGS 501 AND 501.1
• FOR BACKFILL REQUIREMENTS SEE RTC UNIFORM STANDARD DRAWING 503.1
• SEE COMPLETE RTC UNIFORM STANDARD DRAWINGS FOR FURTHER AGENCY REQUIREMENTS

THIS DRAWING MAY SHOW APPROXIMATE LOCATIONS OF KNOWN UTILITIES IN THE IMMEDIATE VICINITY OF THE WORK TO BE DONE, BUT CENTURYLINK DOES NOT GUARANTEE OR ASSUME LIABILITY FOR THEIR POSITION OR DEPTH. CONTRACTORS SHALL DETERMINE TO THEIR SATISFACTION THE ACTUAL POSITION AND DEPTH OF EXISTING UTILITIES AS THEY WILL ASSUME THIS LIABILITY DURING THE PERFORMANCE OF THIS WORK.
APPROVED FOR CONSTRUCTION
THIS APPROVAL IS FOR WORK IN CLV R/W OR CLV EASEMENTS ONLY. OBTAINING PERMISSIONS OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.
7/25/19
APPROVAL DATE

THIS PROJECT HAS BEEN DESIGNED AS JOINT TRENCH WITH NV ENERGY PER THE LATEST NV ENERGY PLAN. NOTIFY THE CENTURYLINK ENGINEER IMMEDIATELY IF REVISIONS OCCUR.

CITY OF LAS VEGAS PERMIT REQUIRED *		AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. CALL 811	
DEVELOPER/CONTRACTOR SHALL OBTAIN A CITY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY		OR 1-800-227-2600	
*CENTURYLINK INSPECTOR WILL VERIFY CITY PERMIT FOR WORK DONE WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY			
INSPECTOR:	DATE:		

Project Description: RESIDENTIAL FIBER TO THE PREMISE (FTTP) T&S - HEXATRONIC		Engineering Contact Name: Lori Johnson	
Project # N.503475		Phone Number: 702-244-7899	
Community Name: BLM 33 SUBDIVISION		Contract Engineer Name: Kyle Cummings	
Exchange Key: WEST WEST		Construction Coordinator Name: Stacie Booth	
Remote Switch Exchange Key: N/A		Phone Number: 702-244-7830	
		Revision 1:	
		Revision 2:	



RE-IMBURSEABLE PROJECT QUANTITIES	
THE DEVELOPER'S CONTRACTOR MAY SUBMIT A PROPOSAL FOR THIS WORK PER THE LATEST STANDARD CONTRACTOR PRICE LIST.	
MATERIAL ITEMS (ALL TRENCHING BY DEVELOPER)	EST. QTY.
4" D.B. 100 GRADE PVC	418 L.F.
2" D.B. 60 GRADE PVC	680 L.F.
4"x48" SCH. 40 PVC 90° BENDS	3 EACH
2"x36" SCH. 40 PVC 90° BENDS	0 EACH

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0 40 80
SCALE 1\"/>

DEVELOPER/CONTRACTOR NOTE:
CALL CENTURYLINK'S CONTROL CENTER AT 702-244-7811 TO SCHEDULE INSPECTIONS OF STREET CROSSINGS AS REQUIRED.

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

STREET CROSSINGS - SLEEVES and GATE SERVICE CABINETS

Project Description: RESIDENTIAL FIBER TO THE PREMISE (FTTP) T&S - HEXATRONIC

Project # N.503475

Community Name: BLM 33 SUBDIVISION

Exchange Key: WEST WEST

RTC SOUTHERN NEVADA NOTES:

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Luis 7/25/19
APPROVAL DATE

CITY OF LAS VEGAS PERMIT REQUIRED *

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*CENTURYLINK INSPECTOR WILL VERIFY CITY PERMIT FOR WORK DONE WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY

INSPECTOR: DATE:

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. CALL 811 OR 1-800-227-2600

CenturyLink

CONFIDENTIAL-Disclose and Distribute Solely to CTL Employees Having a Need to Know. 36

Sheet: 2A Issue Date: 3/4/19

Engineering Contact: Name: Lori Johnson Phone Number: 702-244-7899

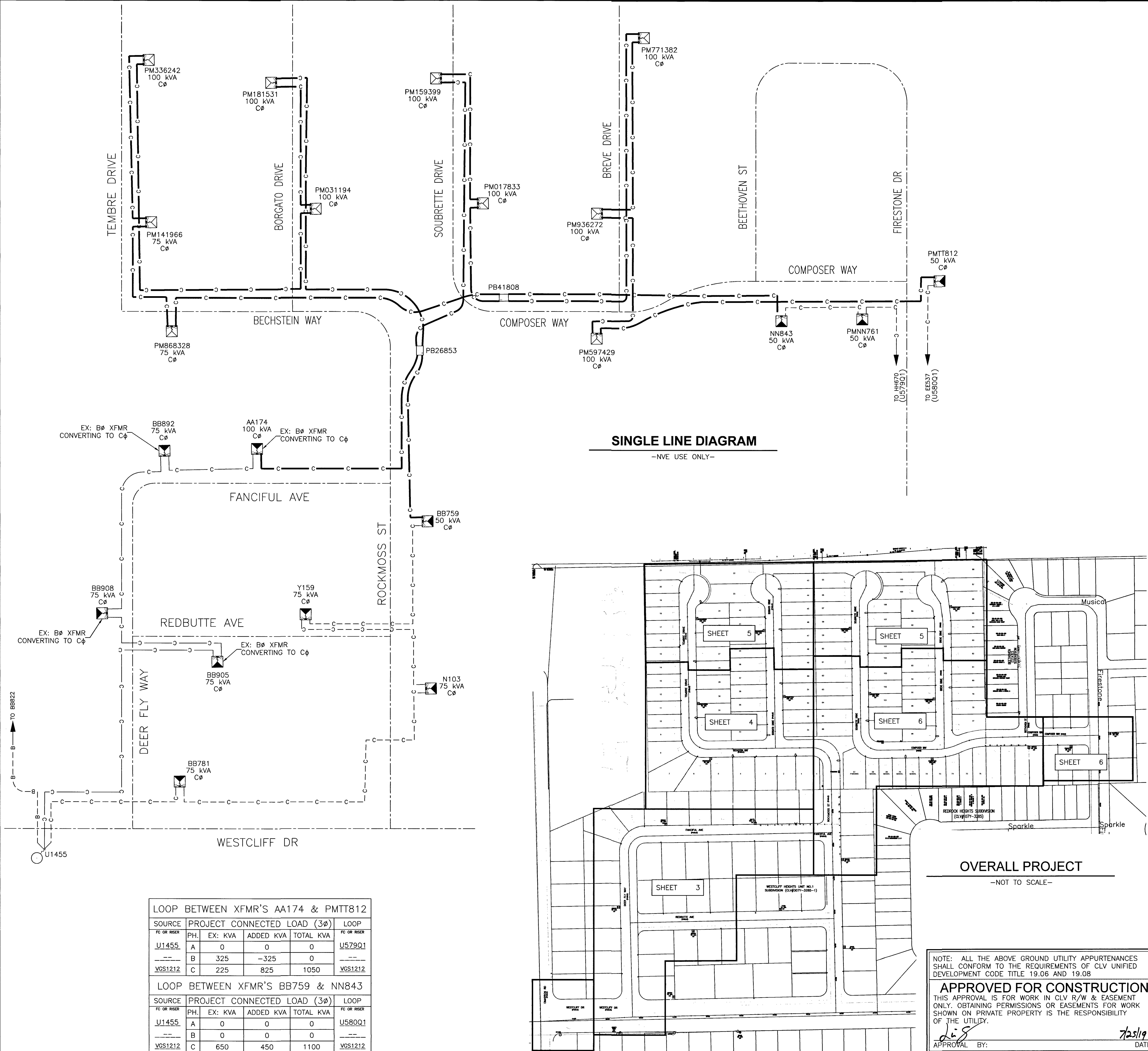
Contract Engineer: Name: Kyle Cummings

Construction Coordinator: Name: Stacie Booth Phone Number: 702-244-7830

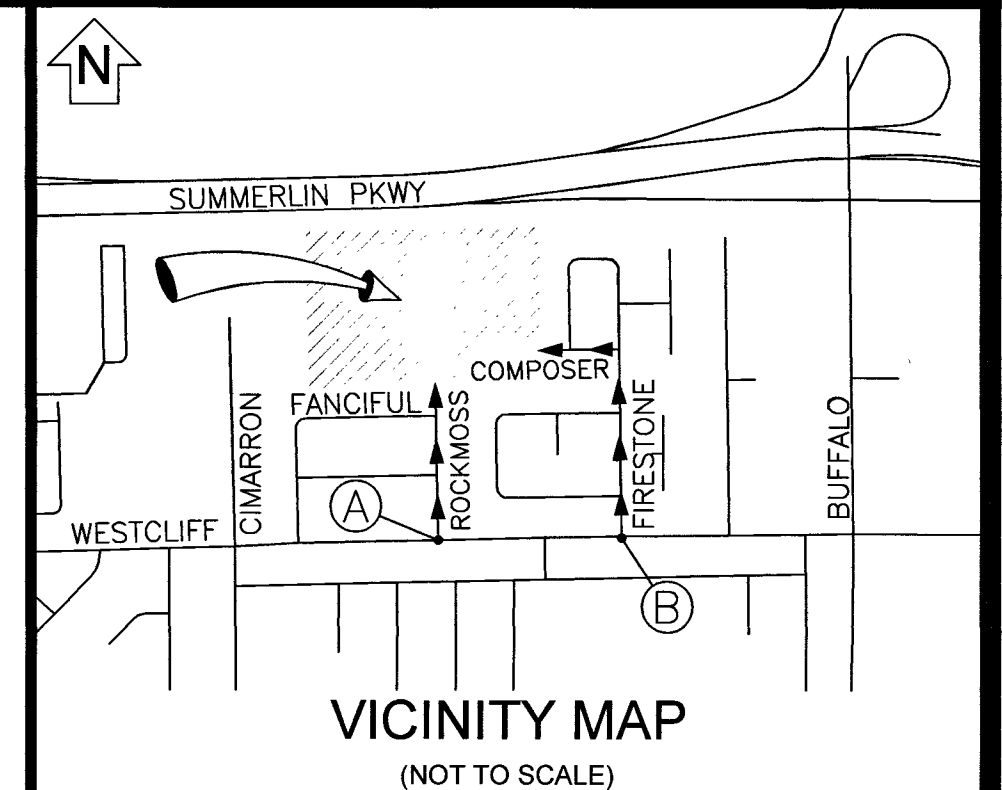
Revision 1: Revision 2:

WC CLLI: LSVGNVXW

Remote Switch Exchange Key: N/A



N
T,R,S: 20-60-28
APN: 138-28-801-002
138-28-801-003



EVERY EFFORT HAS BEEN MADE TO IDENTIFY ALL NVE FACILITIES. THE CUSTOMER SHALL CONFIRM THE EXISTENCE AND LOCATION OF THESE FACILITIES.

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

Call before you Dig
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CALL 811
OR
1-800-227-2600
AND CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-6000

REVISIONS			
NO.	DESCRIPTION	DATE	REV BY

STANDARD DCA

PROJECT PURPOSE:
TO PROVIDE 120/240V SINGLE PHASE SERVICE TO (110) 225 AMP PANELS FOR NEW DETACHED SINGLE FAMILY HOME SUBDIVISION

EXHIBIT 'A'

NVEnergy INFORMATION:
COORDINATOR: SANTIAGO, CHERI
PHONE: (702)622-4365 D.F. LOWELL, KEN
DESIGNER: MIDROWSKY, ANDREW
DCA: 285-8182, 219-5761
INSPECTOR: 702-402-3008 OR UG@NVEENERGY.COM
STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118
DISTRICT: LAS VEGAS NORTH DISTRICT

JPA INFORMATION:
JPA ADMIN PHONE: N/A JPA#: N/A

CUSTOMER INFORMATION:
APPLICANT: D.R. HORTON, INC.
ENGINEER: ADVANTAGE CIVIL DESIGN GROUP, LLP
CONTACT: RICHARDSON VON-OY, DAVE ** 702-379-7577
APPROVAL DATE: 1/23/2019

GOVERNMENT INFORMATION:
AGENCY: CLV
APPROVAL DATE: -----

FOR EACH SERVICE POINT (POINT OF DELIVERY), ENERGY FOR EACH TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.

NVEnergy.

BLM 33 - SUBDIVISION

CIMARRON ROAD / WESTCLIFF DRIVE 38

PROJ #3003118199 SCALE: 1"=30'

SHEET # 2 OF 7 DATE:12/18/2018

LOOP BETWEEN XFMR'S AA174 & PMTT812				
SOURCE	PH.	EX. KVA	ADDED KVA	TOTAL KVA
U1455	A	0	0	0
	B	325	-325	0
VGS1212	C	225	825	1050

LOOP BETWEEN XFMR'S BB759 & NN843				
SOURCE	PH.	EX. KVA	ADDED KVA	TOTAL KVA
U1455	A	0	0	0
	B	0	0	0
VGS1212	C	650	450	1100

NOTE: ALL THE ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF CLV UNIFIED DEVELOPMENT CODE TITLE 19.06 AND 19.08

APPROVED FOR CONSTRUCTION

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APPROVAL BY: *[Signature]* DATE: 7/25/19

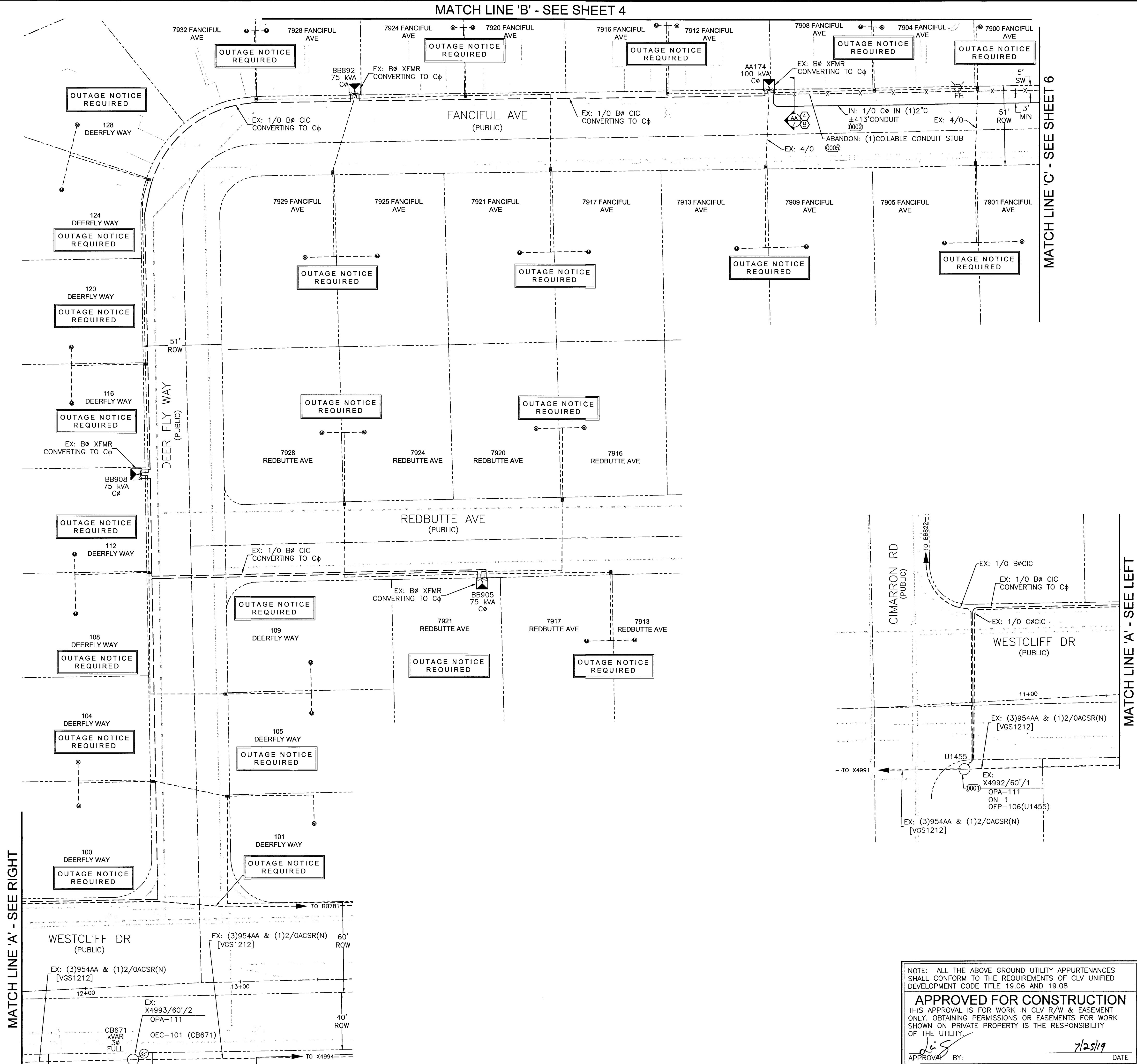
CITY OF LAS VEGAS
PERMIT REQUIRED*

CONTACT CLV LAND DEVELOPMENT (229-6371)
CLV CONSTRUCTION SERVICES MUST BE NOTIFIED 24 HOURS PRIOR TO COMMENCING CONSTRUCTION (229-6337)

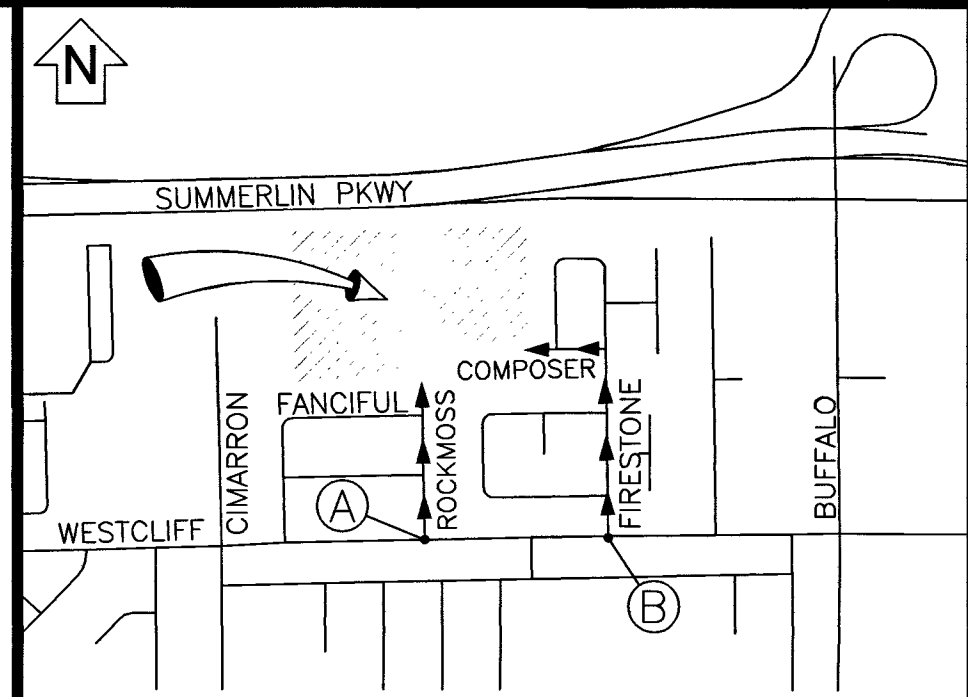
10745099
HANSEN 418-02380

DATE 7/25/19

*NVE INSPECTOR MUST BE NOTIFIED BY FAX 48 HOURS PRIOR TO COMMENCING CONSTRUCTION & WILL VERIFY CITY PERMIT FOR WORK DONE IN STREETS OR SIDEWALK.
FAX PERMIT TO:
LAS VEGAS NORTH (RYAN CENTER): 402-4354
LAS VEGAS SOUTH (BELTWAY CENTER): 402-6864



N
T,R,S: 20-60-28
APN: 138-28-801-002
138-28-801-003



VICINITY MAP
(NOT TO SCALE)

EVERY EFFORT HAS BEEN MADE TO IDENTIFY ALL NVE FACILITIES. THE CUSTOMER SHALL CONFIRM THE EXISTENCE AND LOCATION OF THESE FACILITIES.

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
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OR
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AND CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-6000

REVISIONS			
NO.	DESCRIPTION	DATE	REV BY

STANDARD DCA

PROJECT PURPOSE:
TO PROVIDE 120/240V SINGLE PHASE SERVICE TO (110) 225 AMP PANELS FOR NEW DETACHED SINGLE FAMILY HOME SUBDIVISION

EXHIBIT 'A'

NVEnergy INFORMATION:
COORDINATOR: SANTIAGO, CHERI
PHONE: (702)622-4365 D.F. LOWELL, KEN
DESIGNER: MIDROWSKY, ANDREW
DCA: 285-8182, 219-5761
INSPECTOR: 702-402-3008 OR UGI@NVEENERGY.COM
STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118
DISTRICT: LAS VEGAS NORTH DISTRICT

JPA INFORMATION:
JPA ADMIN PHONE: N/A JPA#: N/A
CUSTOMER INFORMATION:
APPLICANT: D.R. HORTON, INC.
ENGINEER: ADVANTAGE CIVIL DESIGN GROUP, LLP
CONTACT: RICHARDSON VON-OY, DAVE ** 702-379-7577
APPROVAL DATE: 1/23/2019

GOVERNMENT INFORMATION:
AGENCY: CLV
APPROVAL DATE: _____

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NVEnergy.

BLM 33 - SUBDIVISION

CIMARRON ROAD / WESTCLIFF DRIVE 39

PROJ #3003118199 SCALE: 1"=30'

SHEET # 3 OF 7 DATE: 12/18/2018

NOTE: ALL THE ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF CLV UNIFIED DEVELOPMENT CODE TITLE 19.06 AND 19.08

APPROVED FOR CONSTRUCTION

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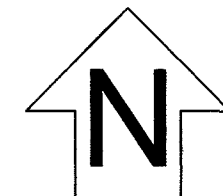
CITY OF LAS VEGAS
PERMIT REQUIRED*

CONTACT CLV LAND DEVELOPMENT (229-6371)
CLV CONSTRUCTION SERVICES MUST BE NOTIFIED 24 HOURS PRIOR TO COMMENCING CONSTRUCTION (229-6337)

HANSEN 107V5099
418-02380

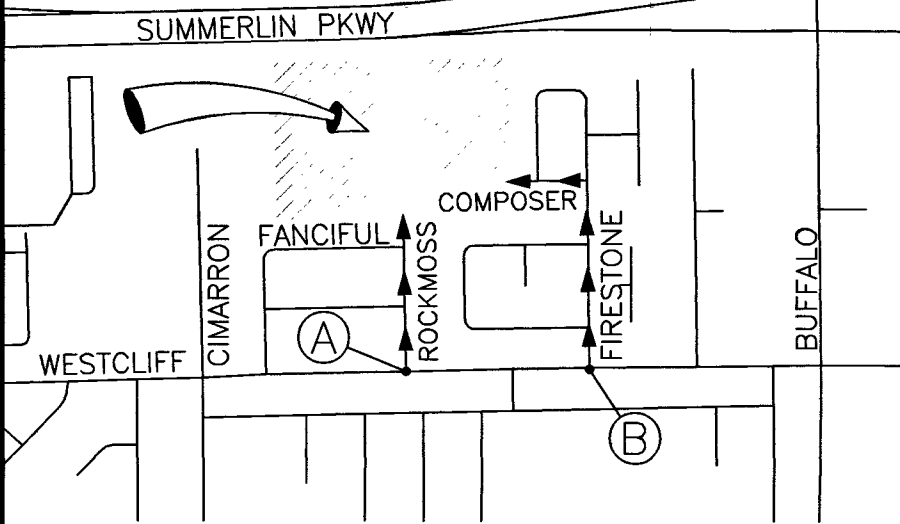
DATE 7/25/19

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FAX PERMIT TO:
LAS VEGAS NORTH (RYAN CENTER): 402-4354
LAS VEGAS SOUTH (BELTWAY CENTER): 402-6864



T,R,S: 20-60-28

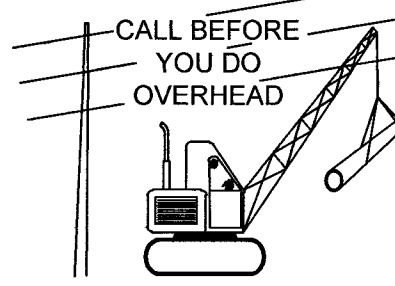
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138-28-801-003



VICINITY MAP
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AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.



CALL 1-702-402-2929

Call before you Dig
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OR
1-800-227-2600
AND CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-6000

REVISIONS

NO.	DESCRIPTION	DATE	REV BY

STANDARD DCA

PROJECT PURPOSE:

TO PROVIDE 120/240V SINGLE PHASE SERVICE TO
(110) 225 AMP PANELS
FOR NEW DETACHED SINGLE FAMILY HOME
SUBDIVISION

EXHIBIT 'A'

NVEnergy INFORMATION:

COORDINATOR: SANTIAGO, CHERI
PHONE: (702)622-4365 D.F. LOWELL, KEN
DESIGNER: MIDROWSKY, ANDREW
DCA: 285-8182, 219-5761
INSPECTOR: 702-402-3008 OR UGI@NVEENERGY.COM
STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118
DISTRICT: LAS VEGAS NORTH DISTRICT

JPA INFORMATION:

JPA ADMIN PHONE: N/A JPA#: N/A
CUSTOMER INFORMATION:

APPLICANT: D.R. HORTON, INC.
ENGINEER: ADVANTAGE CIVIL DESIGN GROUP, LLP
CONTACT: RICHARDSON VON-OY, DAVE ** 702-379-7577
APPROVAL DATE: 1/23/2019

GOVERNMENT INFORMATION:

AGENCY: CLV
APPROVAL DATE: _____

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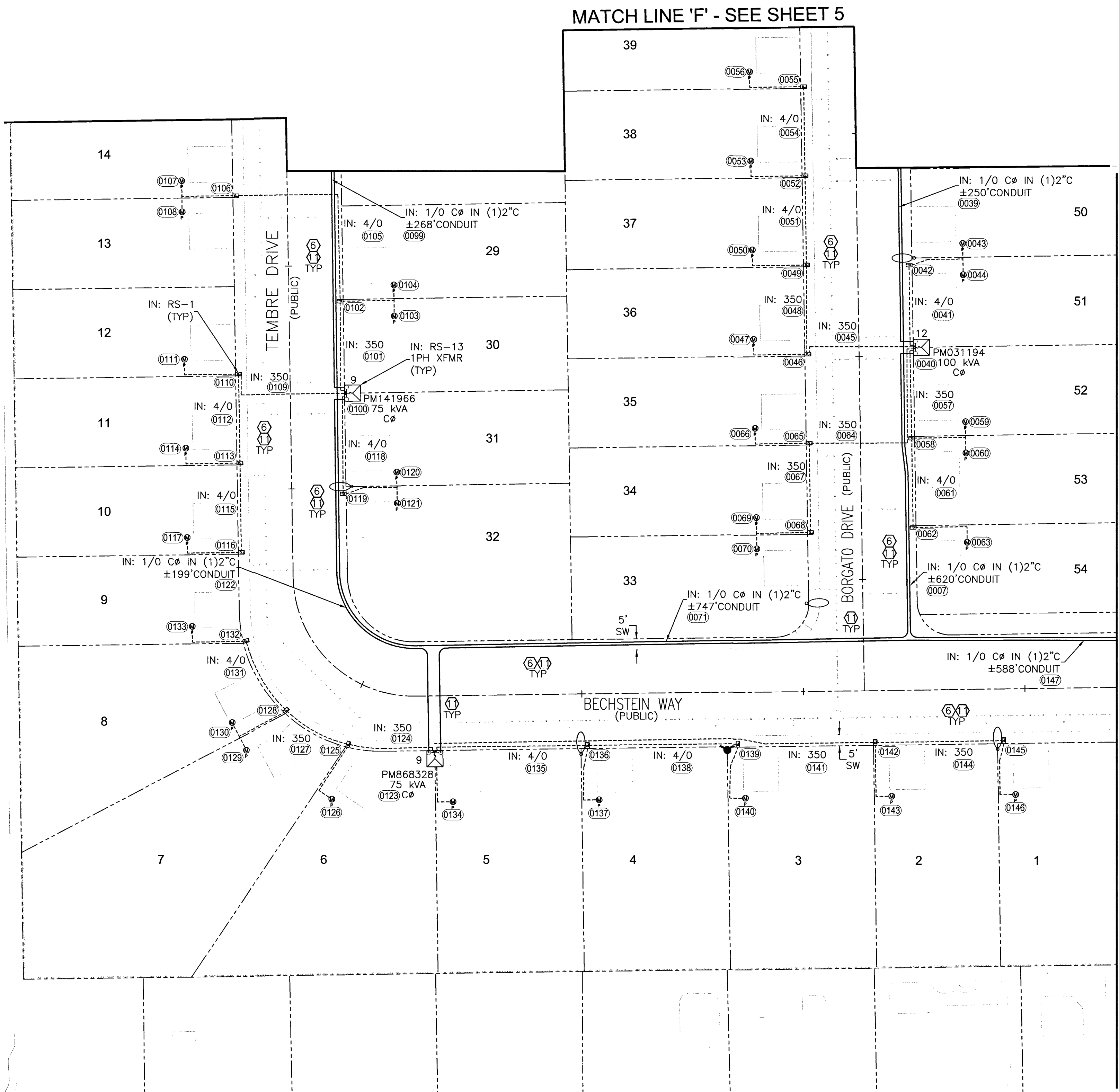


BLM 33 - SUBDIVISION

CIMARRON ROAD / WESTCLIFF
DRIVE 4/0

PROJ #3003118199 SCALE: 1"=30'

SHEET # 4 OF 7 DATE:12/18/2018



UNLESS OTHERWISE NOTED:

ALL SERVICE CONDUCTOR: 2/0 AL TRI.
ALL TRANSFORMERS: 7200V-120/240V-1Ø PM
LARGEST A/C UNIT SIZE: 4 TONS
NUMBER OF UNITS: 110
MAIN SIZE: 225 AMPS
ESTIMATED KVA PER UNIT: 7.8 KVA
SQ. FT. OF LARGEST UNIT: 2435 FT²

NOTE: ALL THE ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF CLV UNIFIED DEVELOPMENT CODE TITLE 19.06 AND 19.08

APPROVED FOR CONSTRUCTION

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APPROVAL BY: *[Signature]* DATE: 7/25/19

CITY OF LAS VEGAS
PERMIT REQUIRED*

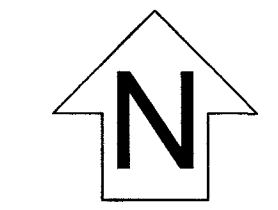
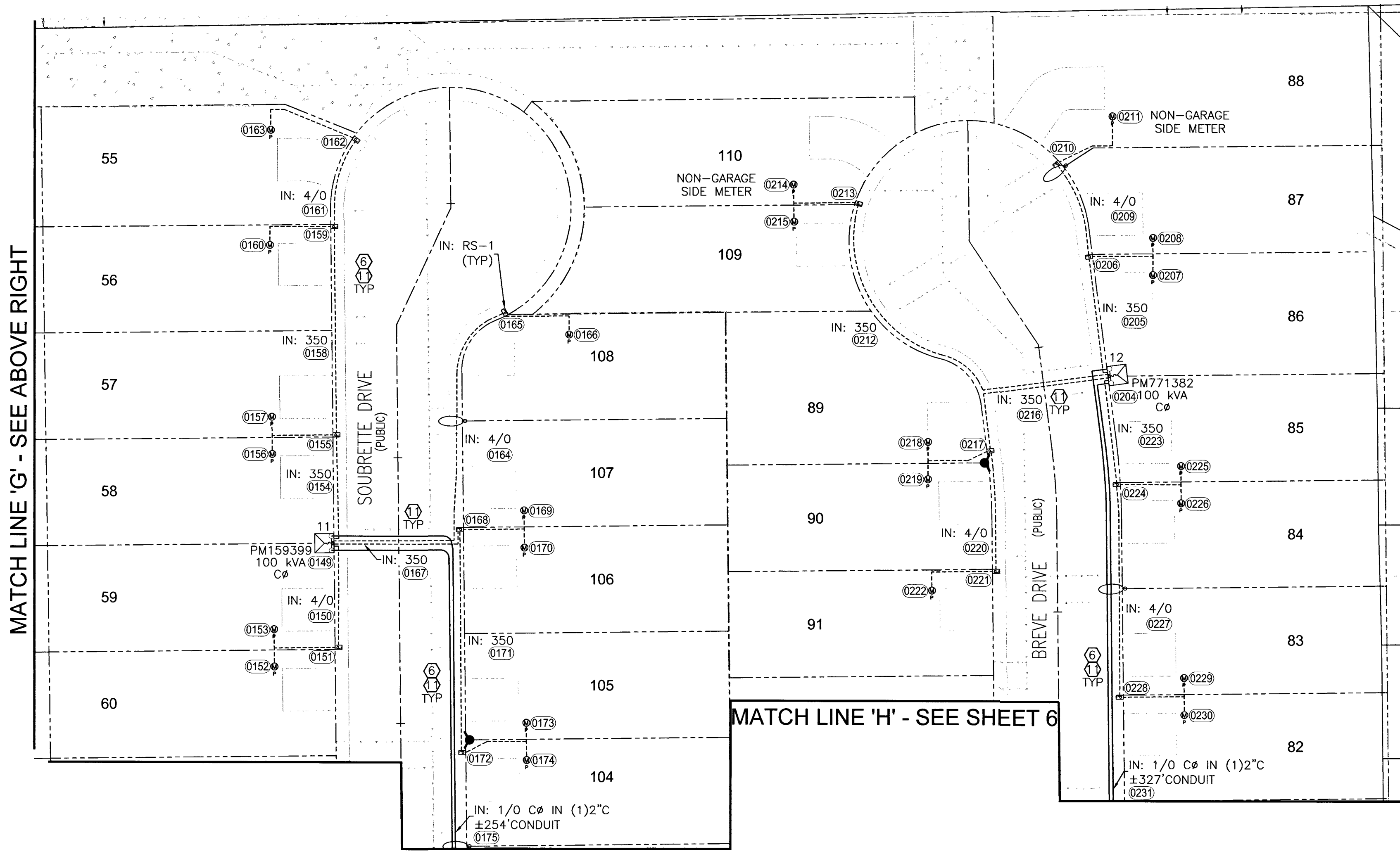
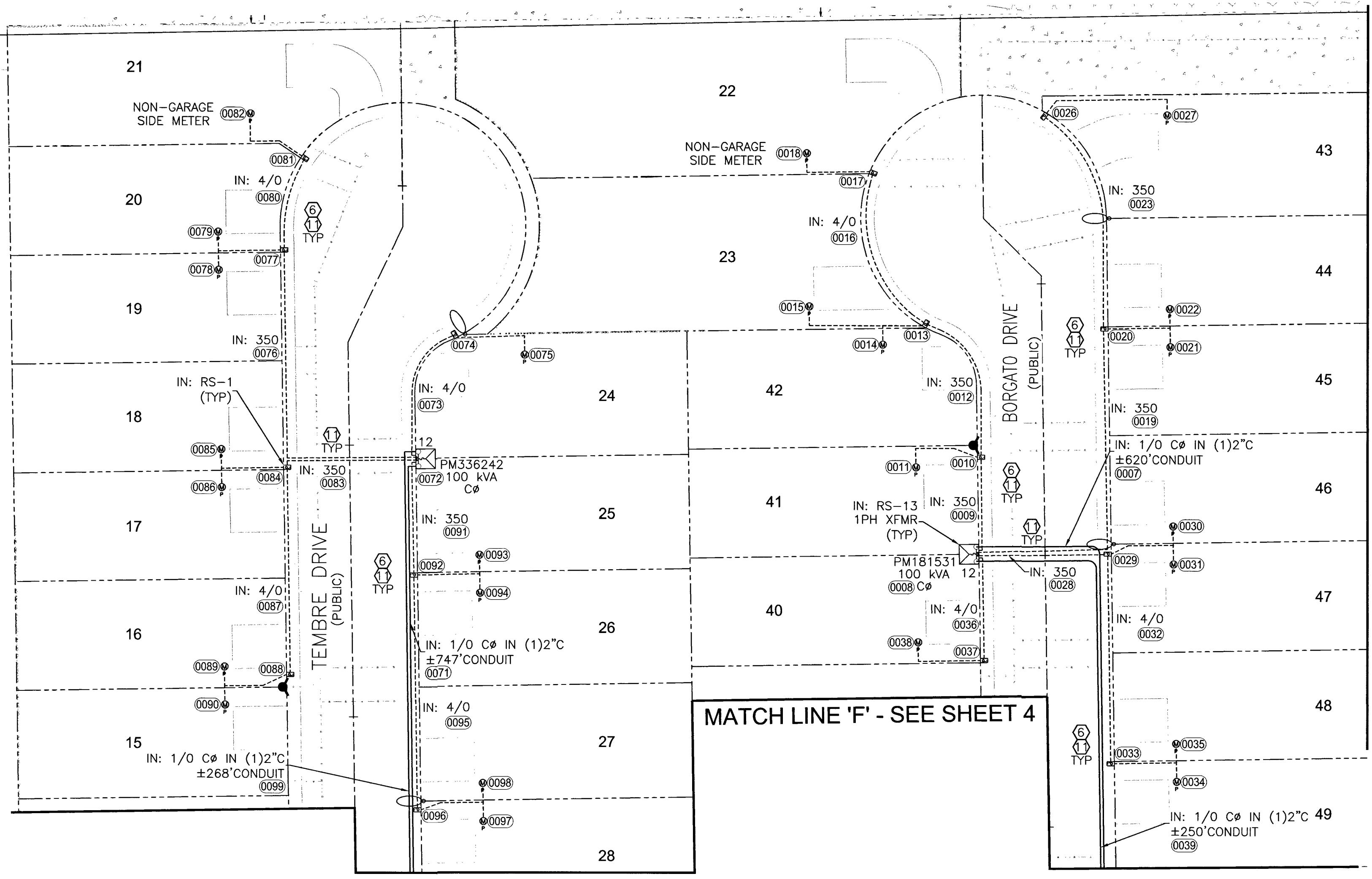
CONTACT CLV LAND DEVELOPMENT (229-6371)
CLV CONSTRUCTION SERVICES MUST BE NOTIFIED 24 HOURS PRIOR TO COMMENCING CONSTRUCTION (229-6337)

HANSEN 107Y5099
618-02380

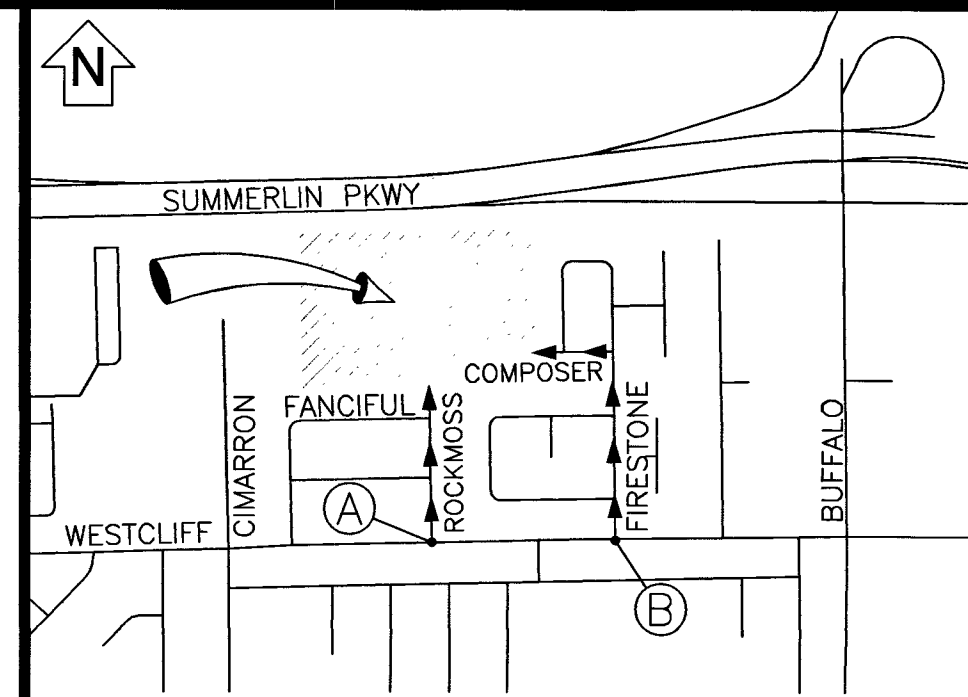
DATE 7/25/19

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FAX PERMIT TO:
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T,R,S: 20-60-28
 APN: 138-28-801-002
 138-28-801-003



VICINITY MAP
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REVISIONS			
NO.	DESCRIPTION	DATE	REV BY

STANDARD DCA

PROJECT PURPOSE:
 TO PROVIDE 120/240V SINGLE PHASE SERVICE TO (110) 225 AMP PANELS FOR NEW DETACHED SINGLE FAMILY HOME SUBDIVISION

EXHIBIT 'A'

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 JPA ADMIN PHONE: N/A JPA#: N/A

CUSTOMER INFORMATION:
 APPLICANT: D.R. HORTON, INC.
 ENGINEER: ADVANTAGE CIVIL DESIGN GROUP, LLP
 CONTACT: RICHARDSON VON-OY, DAVE ** 702-379-7577
 APPROVAL DATE: 1/23/2019

GOVERNMENT INFORMATION:
 AGENCY: CLV
 APPROVAL DATE: _____

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NVEnergy.

BLM 33 - SUBDIVISION

CIMARRON ROAD / WESTCLIFF DRIVE

PROJ #3003118199 SCALE: 1"=30'

SHEET # 5 OF 7 DATE: 12/18/2018

UNLESS OTHERWISE NOTED:

ALL SERVICE CONDUCTOR: 2/0 AL TRI.
 ALL TRANSFORMERS: 7200V-120/240V-1Ø PM
 LARGEST A/C UNIT SIZE: 4 TONS
 NUMBER OF UNITS: 110
 MAIN SIZE: 225 AMPS
 ESTIMATED KVA PER UNIT: 7.8 KVA
 SQ. FT. OF LARGEST UNIT: 2435 FT²

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APPROVED FOR CONSTRUCTION

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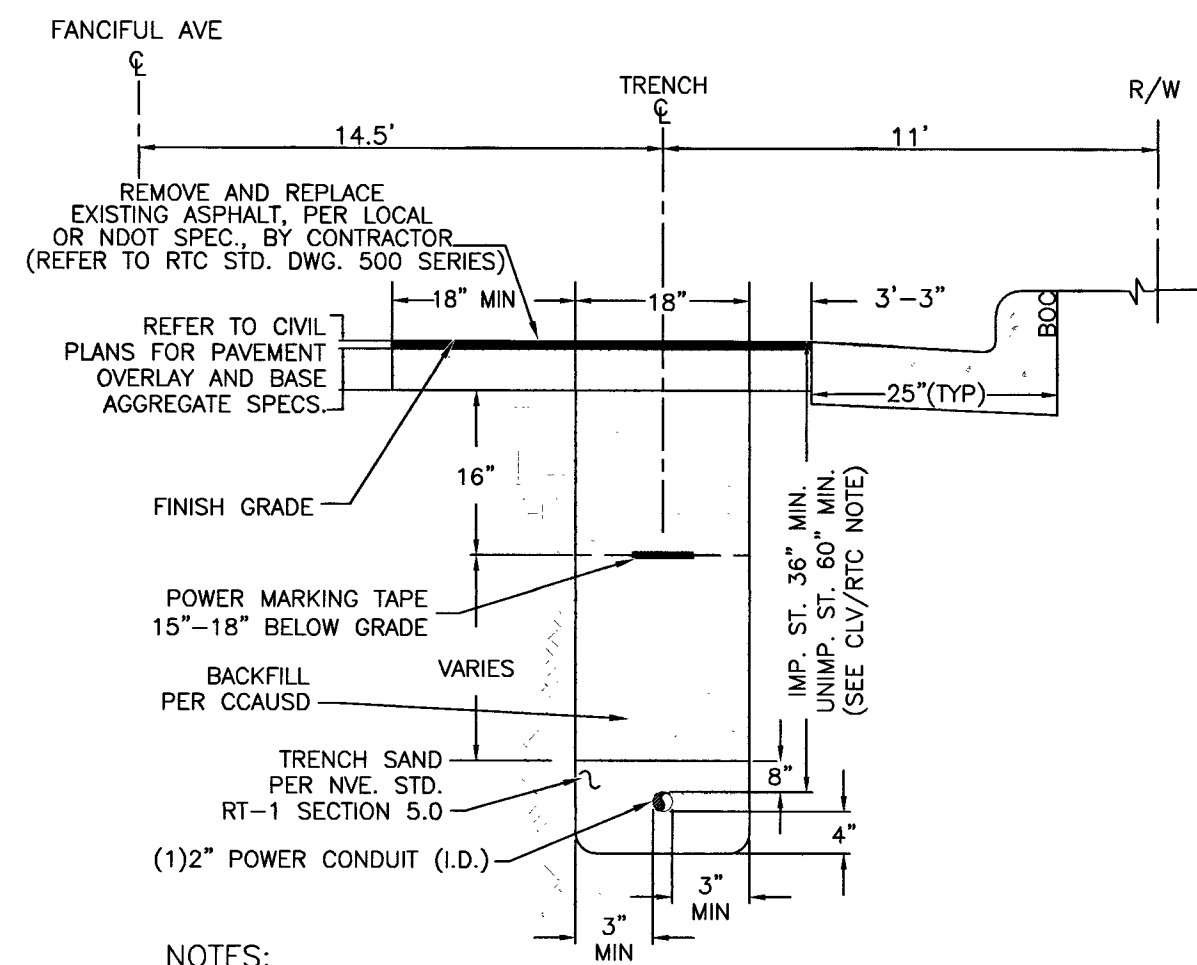
CITY OF LAS VEGAS
 PERMIT REQUIRED*

CONTACT CLV LAND DEVELOPMENT (229-6371)
 CLV CONSTRUCTION SERVICES MUST BE NOTIFIED 24 HOURS PRIOR TO COMMENCING CONSTRUCTION (229-6337)

107Y5099
 HANSEN 118-02380

DATE: 7/25/19

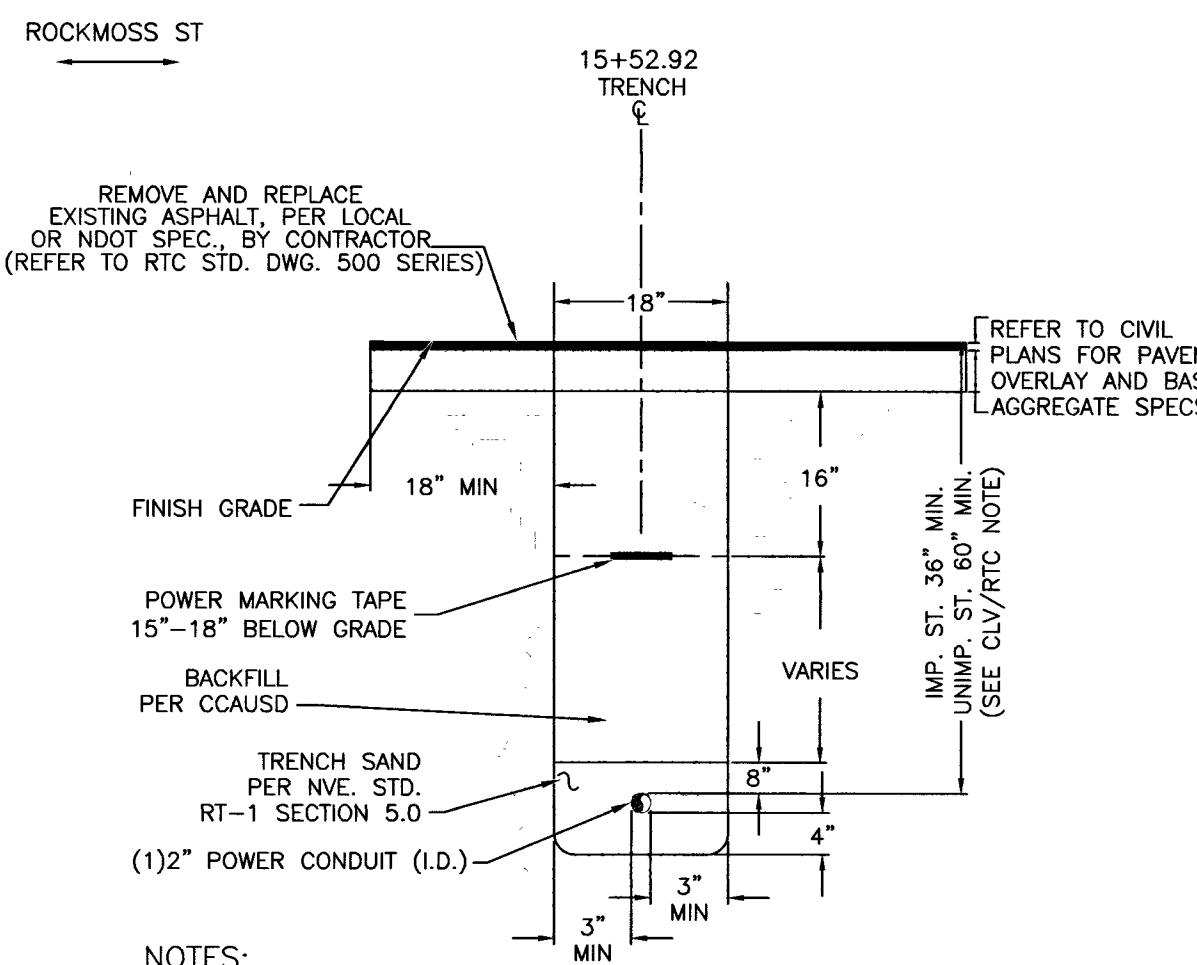
*NVE INSPECTOR MUST BE NOTIFIED BY FAX 48 HOURS PRIOR TO COMMENCING CONSTRUCTION & WILL VERIFY CITY PERMIT FOR WORK DONE IN STREETS OR SIDEWALK.
 FAX PERMIT TO:
 LAS VEGAS NORTH (RYAN CENTER): 402-4254
 LAS VEGAS SOUTH (BELTWAY CENTER): 402-6864



NOTES:

CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):
IMPROVED AREA (IMP. ST.): (LOCATION OF TRENCH)
AREA WILL BE CONSIDERED IMPROVED IF IT MEETS ONE OR MORE OF THE FOLLOWING CRITERIA(S):
- EXISTING PERMANENT PAVEMENT WITH CURB & GUTTER AND/OR ADJACENT PERMANENT SIDEWALK.
- WITHIN AN IMPROVED TRAIL AREA.
- LIMITS OF CONSTRUCTION INSTALLED CONCURRENT WITH A PRIVATE OR PUBLIC PROJECT.
UNIMPROVED AREA (UNIMP. ST.): (LOCATION OF TRENCH)
ANY OTHER SCENARIO THAT FAILS TO MEET THE IMPROVED AREA CRITERIA(S) WILL BE CONSIDERED AN UNIMPROVED AREA.
NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

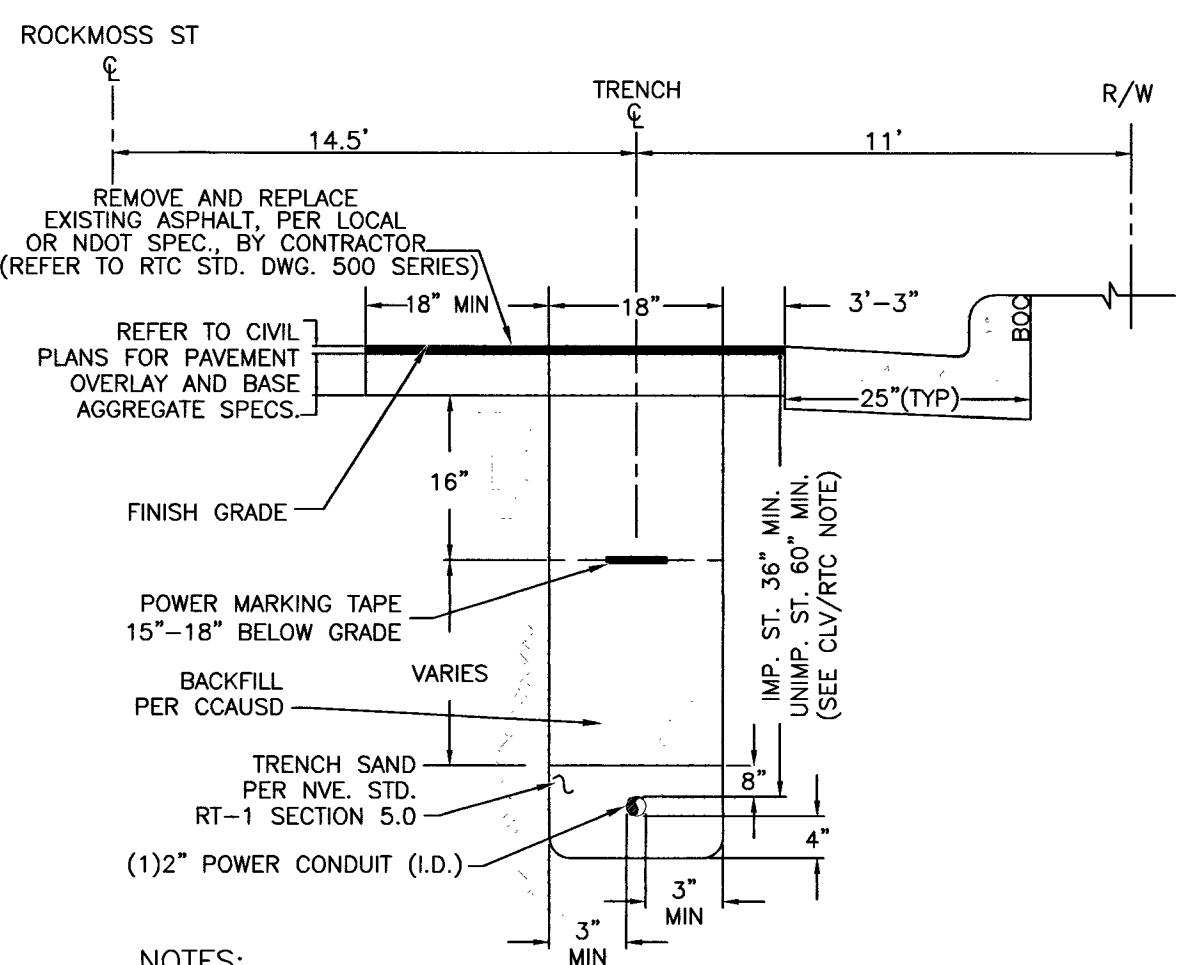
TRENCH DETAIL SECTION "AA"



NOTES:

REGIONAL TRANSPORTATION COMMISSION, CITY OF HENDERSON,
CITY OF NORTH LAS VEGAS AND UNINCORPORATED CLARK COUNTY
REQUIREMENTS (SECTION 503.1 & 503.2):
METHOD A/B FOR FLEXIBLE/RIGID PIPE TRENCH BACKFILL-PAVED AREAS
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.
COH JURISDICTION:
FOR ALL AREAS EXCEPT NVENERGY PIPE ZONE, THE TRENCH, BACKFILL AND AC REPLACEMENT SHALL BE PER CCAUSD.
NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

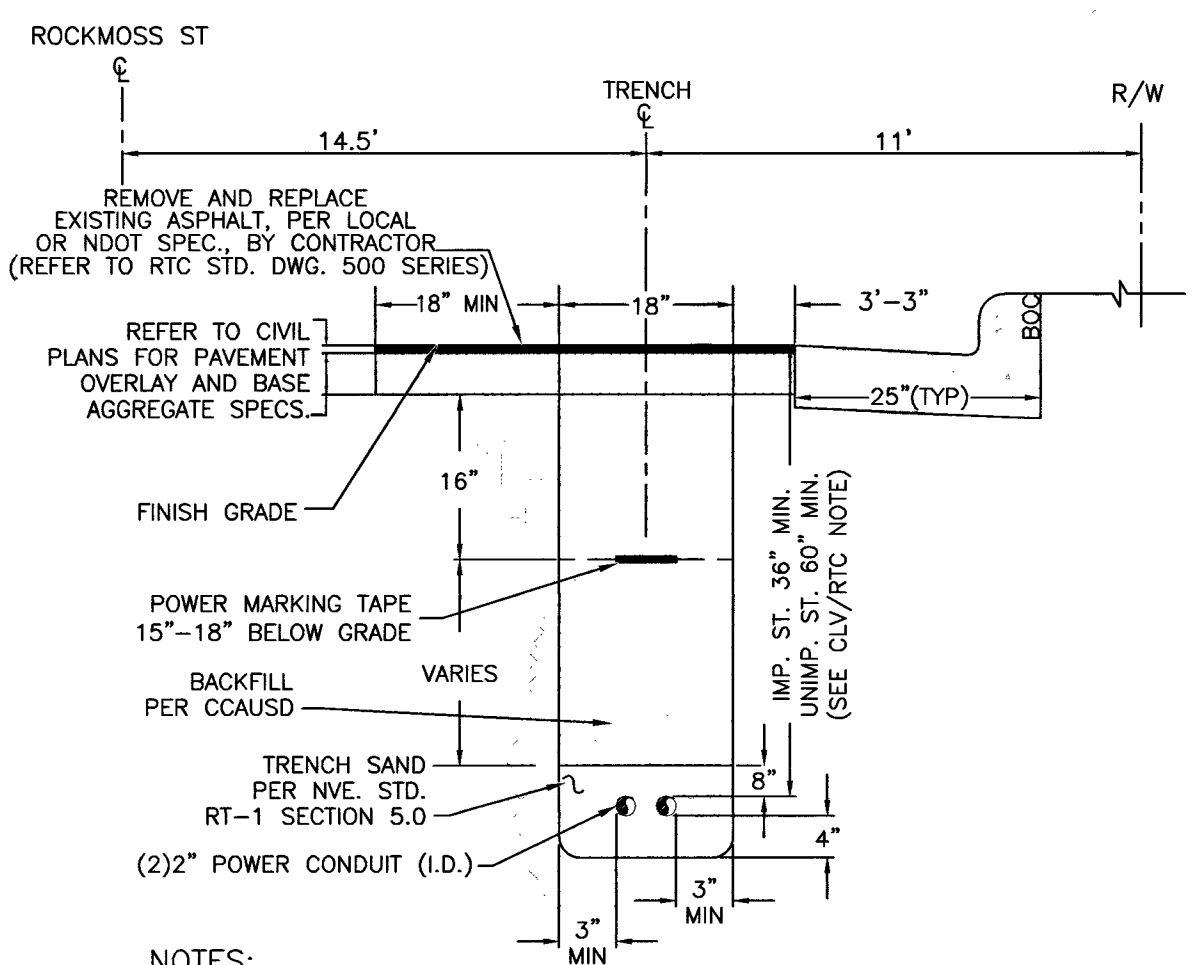
TRENCH DETAIL SECTION "BB"



NOTES:

CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):
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AREA WILL BE CONSIDERED IMPROVED IF IT MEETS ONE OR MORE OF THE FOLLOWING CRITERIA(S):
- EXISTING PERMANENT PAVEMENT WITH CURB & GUTTER AND/OR ADJACENT PERMANENT SIDEWALK.
- WITHIN AN IMPROVED TRAIL AREA.
- LIMITS OF CONSTRUCTION INSTALLED CONCURRENT WITH A PRIVATE OR PUBLIC PROJECT.
UNIMPROVED AREA (UNIMP. ST.): (LOCATION OF TRENCH)
ANY OTHER SCENARIO THAT FAILS TO MEET THE IMPROVED AREA CRITERIA(S) WILL BE CONSIDERED AN UNIMPROVED AREA.
NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

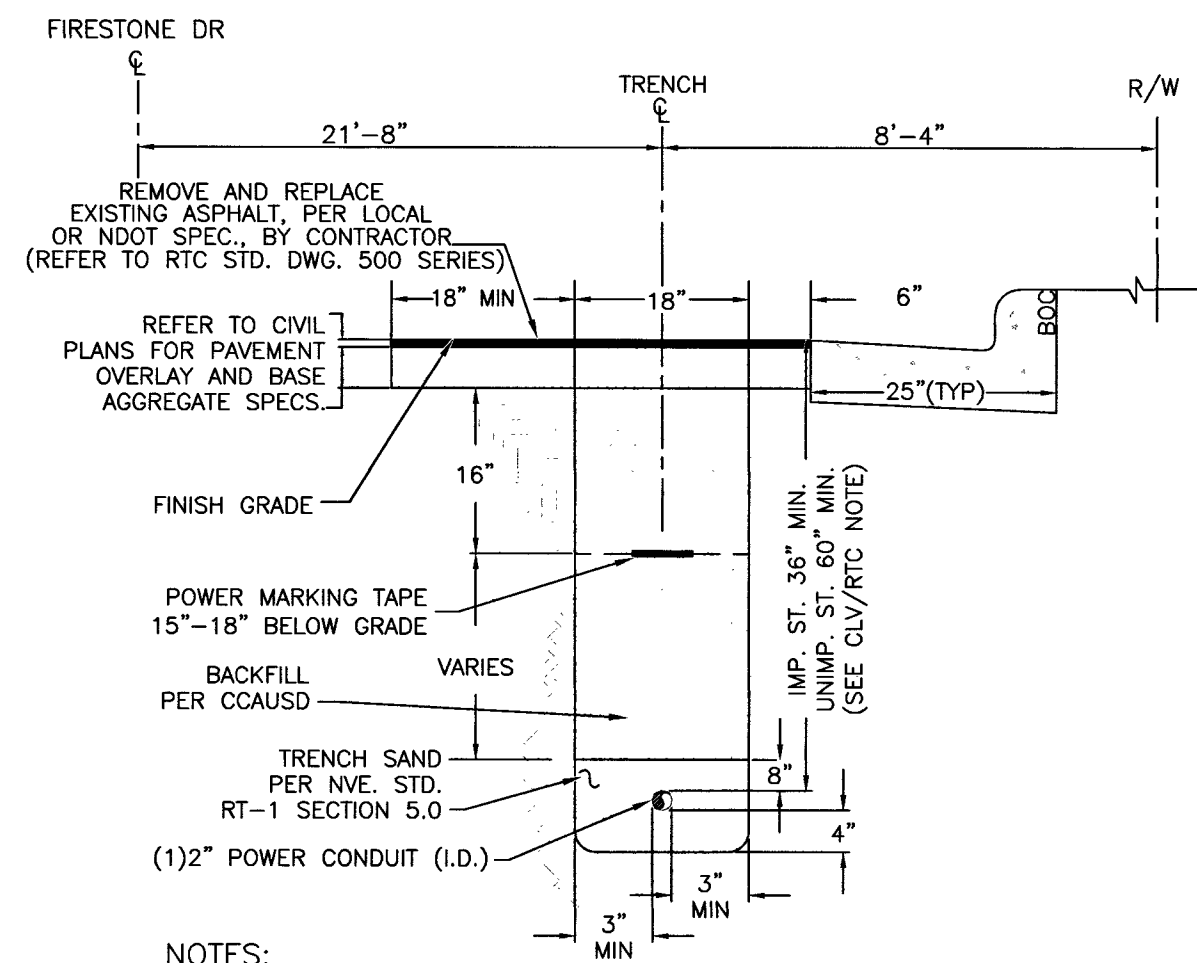
TRENCH DETAIL SECTION "CC"



NOTES:

CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):
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- WITHIN AN IMPROVED TRAIL AREA.
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NVE REQUIREMENTS:
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BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

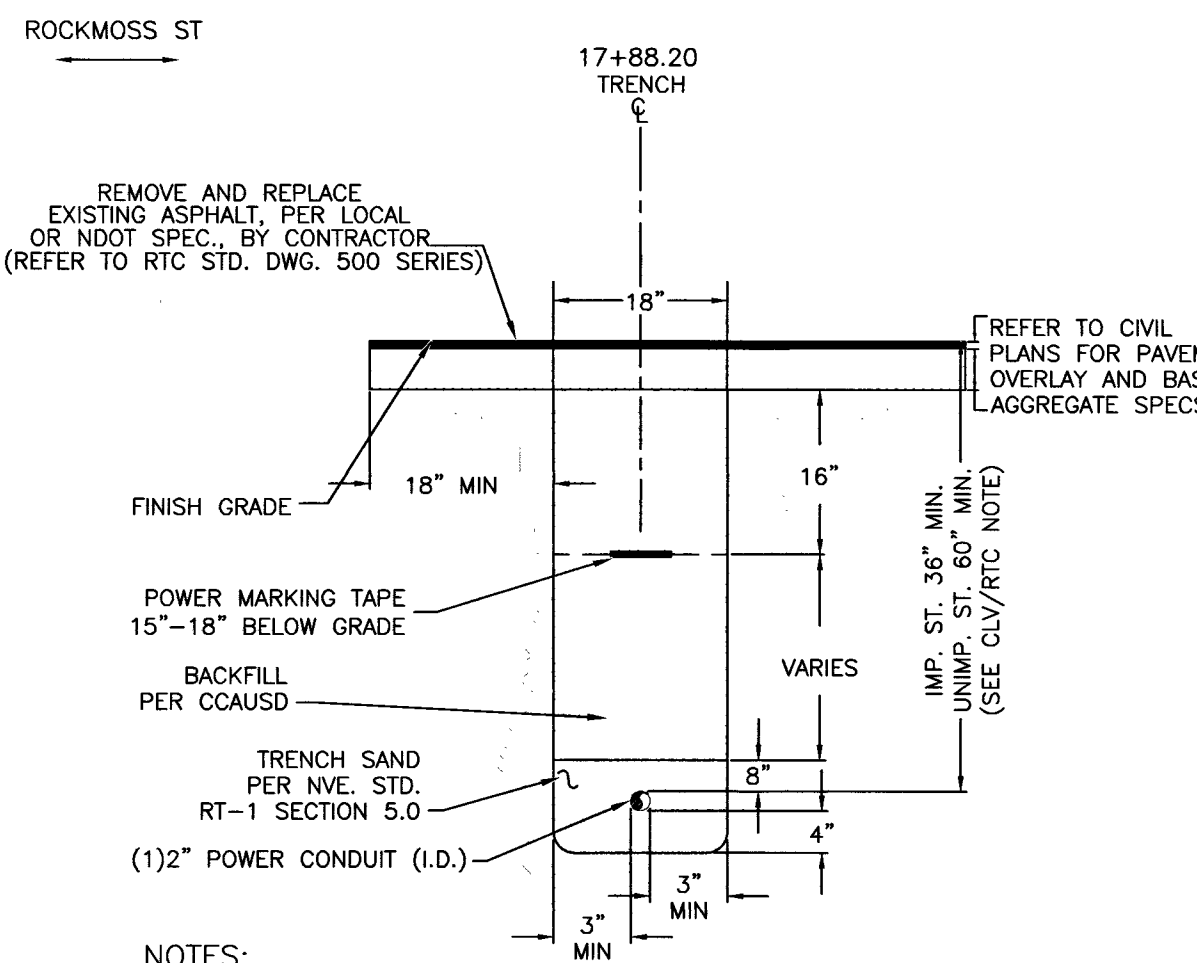
TRENCH DETAIL SECTION "DD"



NOTES:

CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):
IMPROVED AREA (IMP. ST.): (LOCATION OF TRENCH)
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- WITHIN AN IMPROVED TRAIL AREA.
- LIMITS OF CONSTRUCTION INSTALLED CONCURRENT WITH A PRIVATE OR PUBLIC PROJECT.
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NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

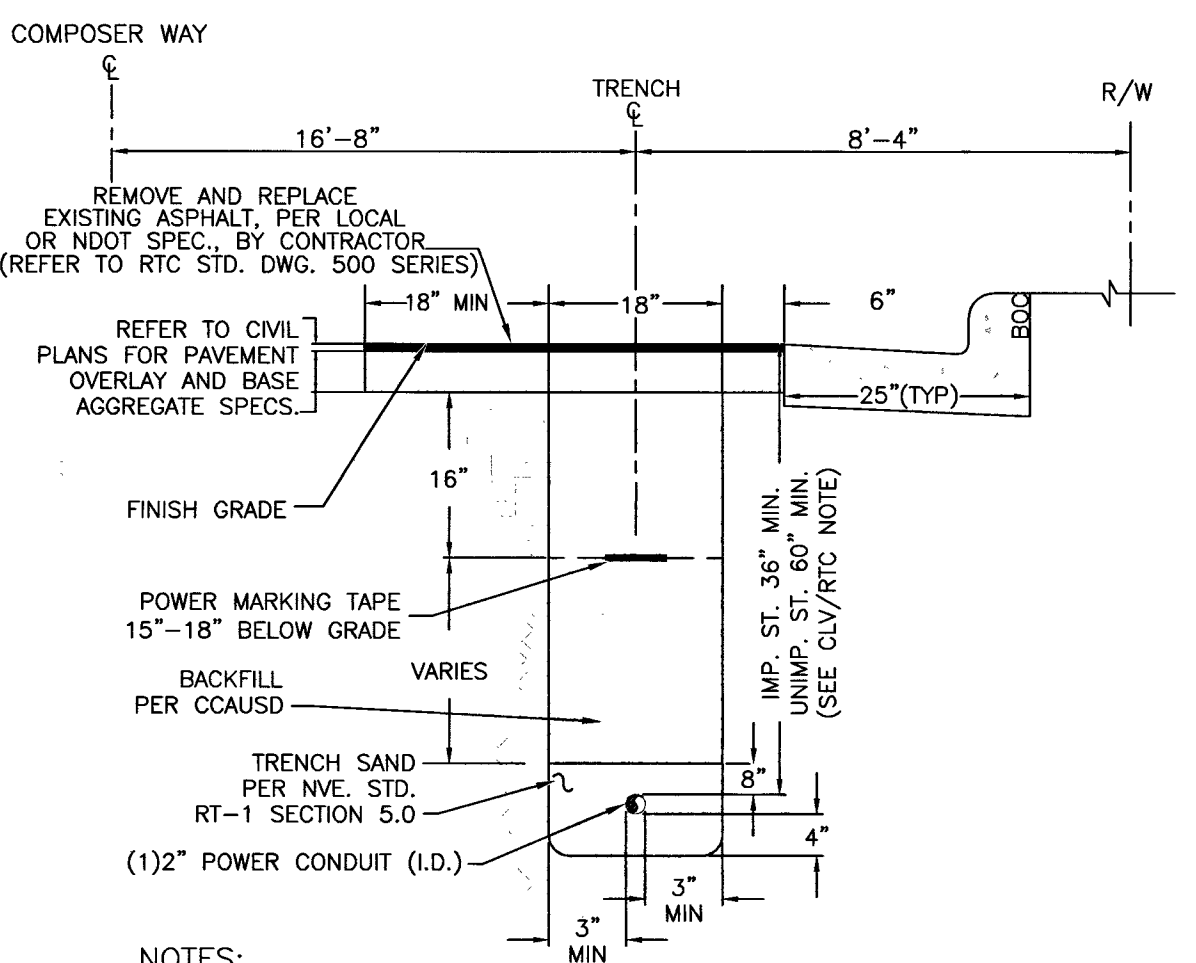
TRENCH DETAIL SECTION "EE"



NOTES:

REGIONAL TRANSPORTATION COMMISSION, CITY OF HENDERSON,
CITY OF NORTH LAS VEGAS AND UNINCORPORATED CLARK COUNTY
REQUIREMENTS (SECTION 503.1 & 503.2):
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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.
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BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

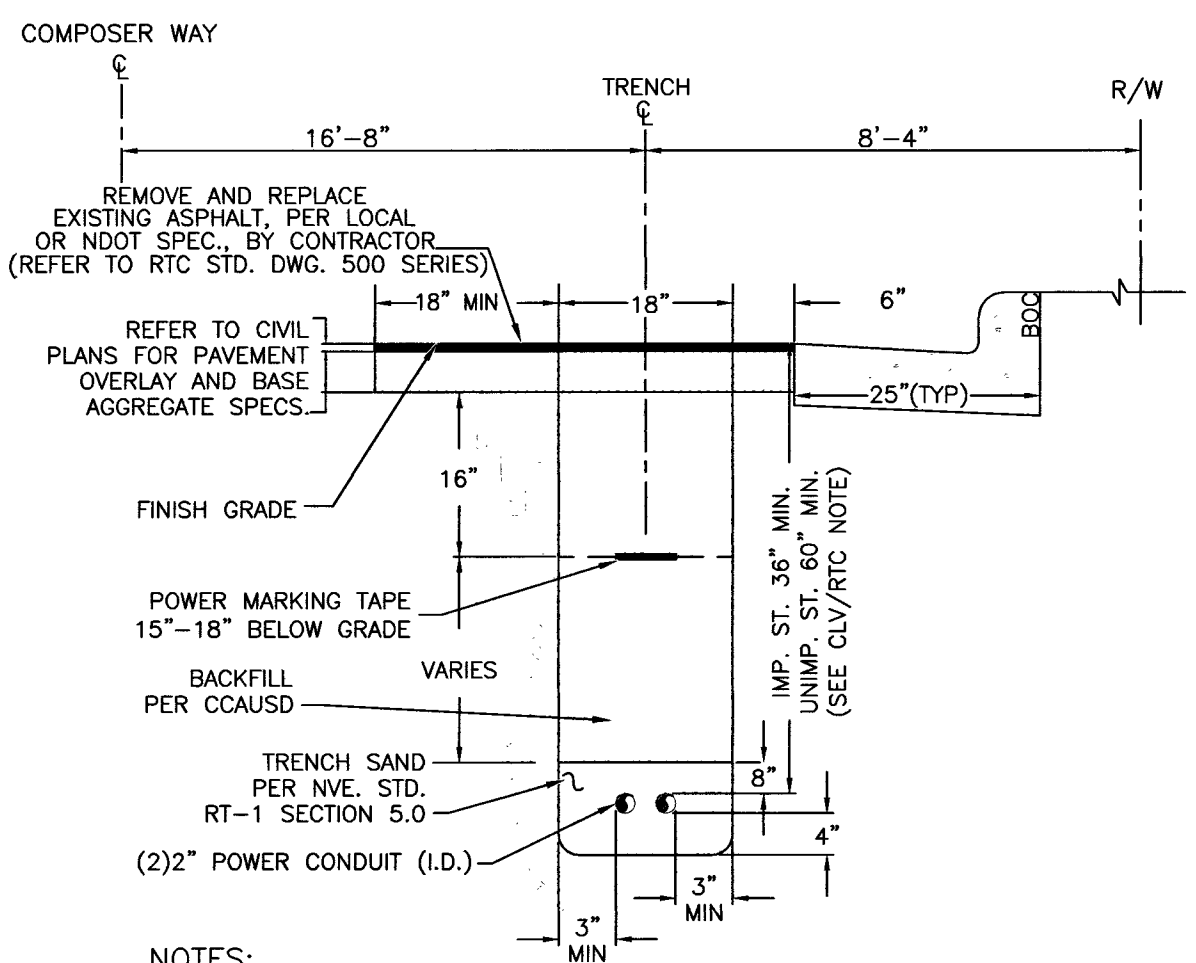
TRENCH DETAIL SECTION "FF"



NOTES:

CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):
IMPROVED AREA (IMP. ST.): (LOCATION OF TRENCH)
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- EXISTING PERMANENT PAVEMENT WITH CURB & GUTTER AND/OR ADJACENT PERMANENT SIDEWALK.
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- LIMITS OF CONSTRUCTION INSTALLED CONCURRENT WITH A PRIVATE OR PUBLIC PROJECT.
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NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

TRENCH DETAIL SECTION "GG"



NOTES:

CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):
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AREA WILL BE CONSIDERED IMPROVED IF IT MEETS ONE OR MORE OF THE FOLLOWING CRITERIA(S):
- EXISTING PERMANENT PAVEMENT WITH CURB & GUTTER AND/OR ADJACENT PERMANENT SIDEWALK.
- WITHIN AN IMPROVED TRAIL AREA.
- LIMITS OF CONSTRUCTION INSTALLED CONCURRENT WITH A PRIVATE OR PUBLIC PROJECT.
UNIMPROVED AREA (UNIMP. ST.): (LOCATION OF TRENCH)
ANY OTHER SCENARIO THAT FAILS TO MEET THE IMPROVED AREA CRITERIA(S) WILL BE CONSIDERED AN UNIMPROVED AREA.
NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

TRENCH DETAIL SECTION "HH"

#	STREET INTERSECTION	STA.	HEADED
1	WESTCLIFF DR	19+83.26	EAST
2	ROCKMOOS ST	10+00	NORTH
3	WESTCLIFF DR	26+79.33	EAST
4	FIRESTONE DR	10+00	NORTH

CENTERLINE STATION TABLE

NOTE: ALL THE ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF CLV UNIFIED DEVELOPMENT CODE TITLE 19.06 AND 19.08

APPROVED FOR CONSTRUCTION

THIS APPROVAL IS FOR WORK IN CLV R/W & EASEMENT ONLY. OBTAINING PERMISSIONS OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

APPROVAL BY: 7/25/19 DATE: 7/25/19

CITY OF LAS VEGAS
PERMIT REQUIRED*

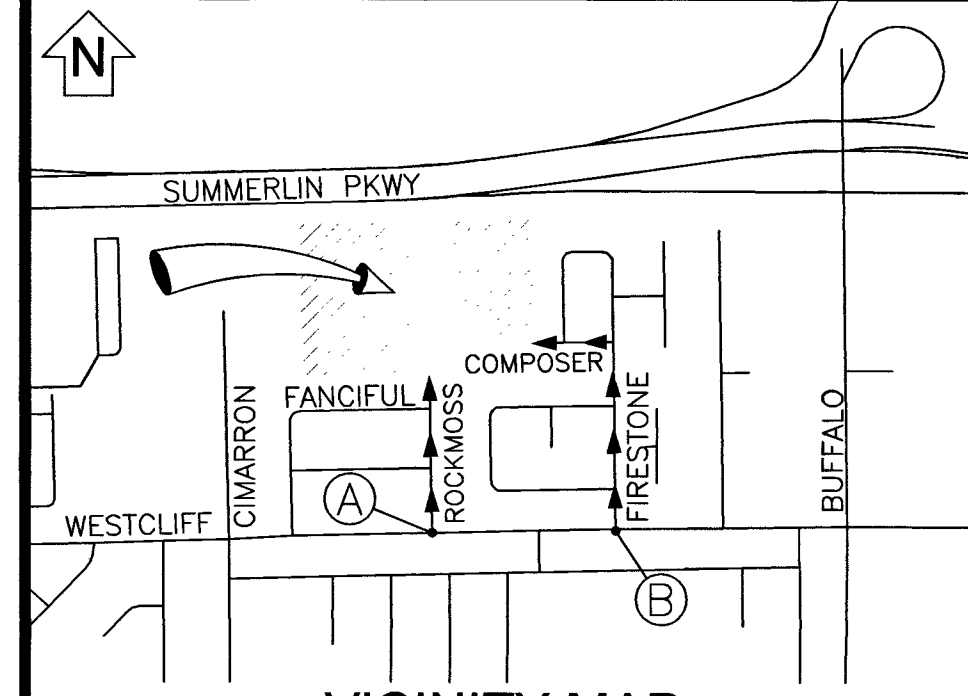
CONTACT CLV LAND DEVELOPMENT (229-6371)
CLV CONSTRUCTION SERVICES MUST BE NOTIFIED 24 HOURS PRIOR TO COMMENCING CONSTRUCTION (229-6371)

HANSEN 10745099
418-02380

DATE 7/25/19

*NVE INSPECTOR MUST BE NOTIFIED BY FAX 48 HOURS PRIOR TO COMMENCING CONSTRUCTION & WILL VERIFY CITY PERMIT FOR WORK DONE IN STREETS OR SIDEWALK.

LAS VEGAS NORTH (RYAN CENTER): 402-4354
LAS VEGAS SOUTH (BELTWAY CENTER): 402-6864



VICINITY MAP (NOT TO SCALE)

EVERY EFFORT HAS BEEN MADE TO IDENTIFY ALL NVE FACILITIES. THE CUSTOMER SHALL CONFIRM THE EXISTENCE AND LOCATION OF THESE FACILITIES.

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

CALL BEFORE YOU DO OVERHEAD

CALL 1-702-402-2929

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

CALL 811

OR
1-800-227-2600

AND CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-6000

REVISIONS

NO.	DESCRIPTION	DATE	REV BY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

STANDARD DCA

PROJECT PURPOSE:

TO PROVIDE 120/240V SINGLE PHASE SERVICE TO
(110) 225 AMP PANELS
FOR NEW DETACHED SINGLE FAMILY HOME
SUBDIVISION

EXHIBIT 'A'

NVEnergy INFORMATION:
COORDINATOR: SANTIAGO, CHERI
PHONE: (702)622-4365 D.F. LOWELL, KEN
DESIGNER: MIDROWSKY, ANDREW
DCA: 285-8182, 219-5761
INSPECTOR: 702-402-3008 OR UGI@NVEENERGY.COM
STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118
DISTRICT: LAS VEGAS NORTH DISTRICT
JPA INFORMATION:
JPA ADMIN PHONE: N/A JPA#: N/A
CUSTOMER INFORMATION:
APPLICANT: D.R. HORTON, INC.
ENGINEER: ADVANTAGE CIVIL DESIGN GROUP, LLP
CONTACT: RICHARDSON VON-OY, DAVE ** 702-379-7577
APPROVAL DATE: 1/23/2019
GOVERNMENT INFORMATION:
AGENCY: CLV
APPROVAL DATE: ----
FOR EACH SERVICE POINT (POINT OF DELIVERY), ENERGY FOR EACH TENANT SPACE WILL BE MEASURED THROUGH ONE WATT/OUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATT/OUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.



BLM 33 - SUBDIVISION

CIMARRON ROAD / WESTCLIFF
DRIVE 43

PROJ #3003118199 SCALE: 1"=30'
SHEET # 7 OF 7 DATE: 12/18/2018