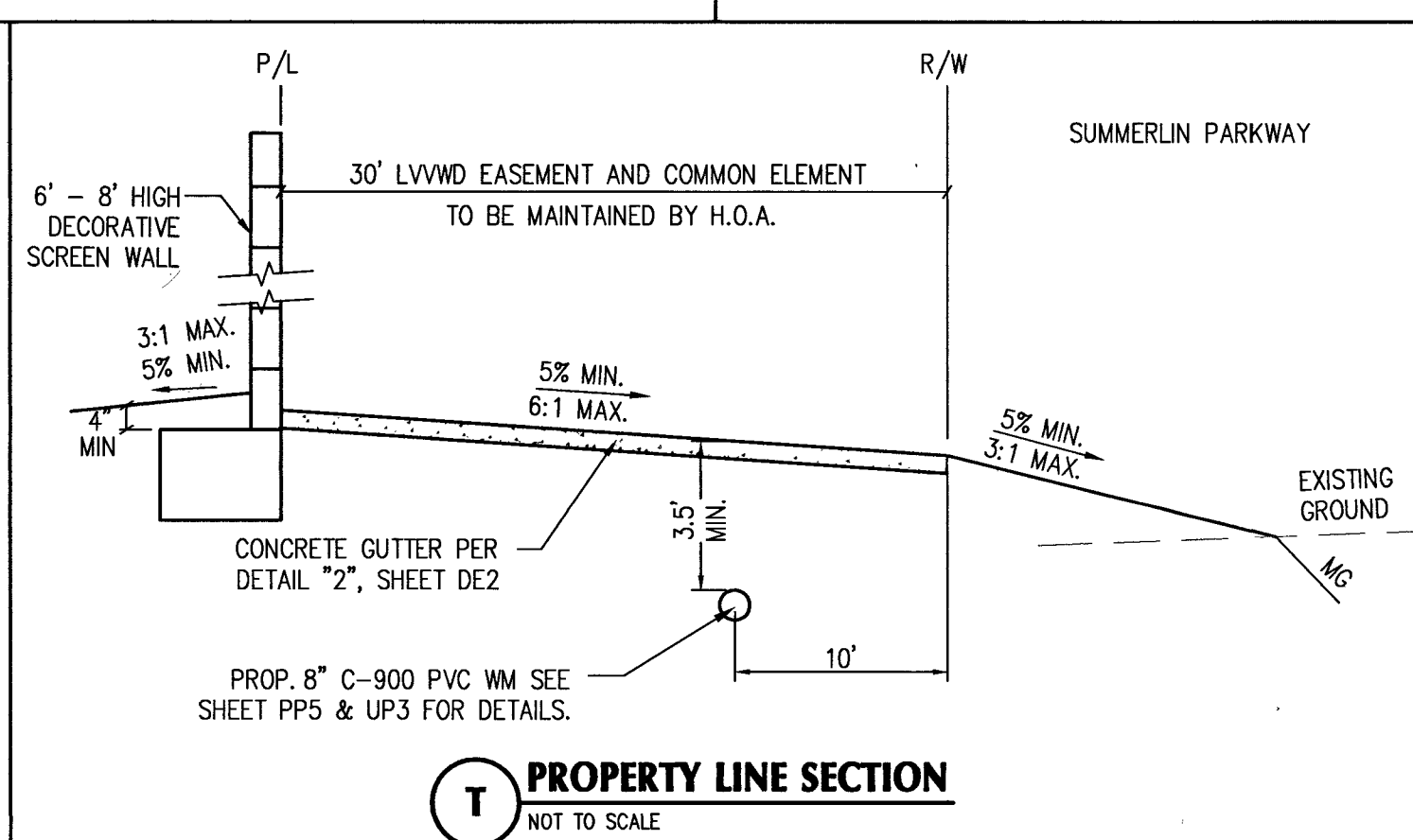
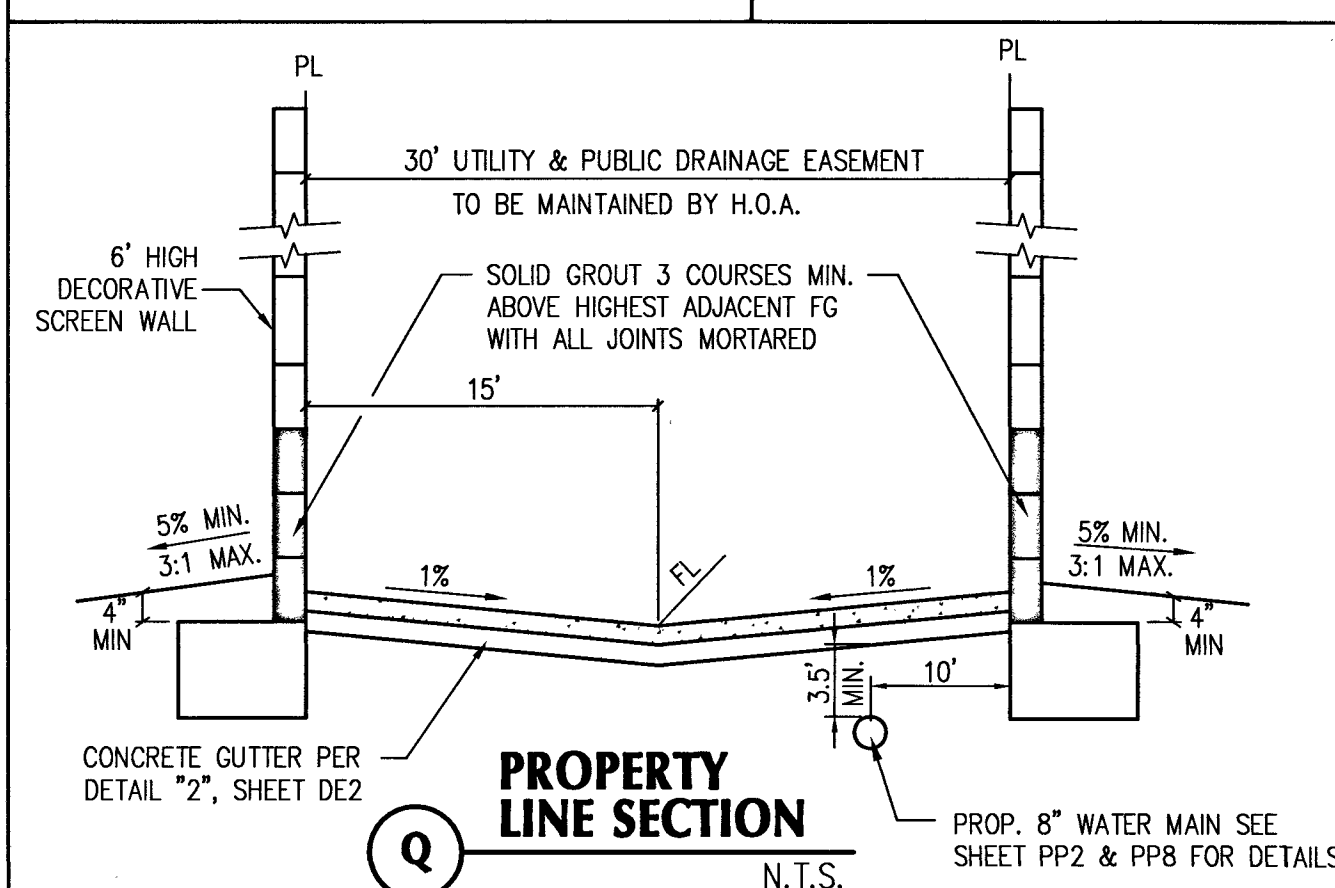
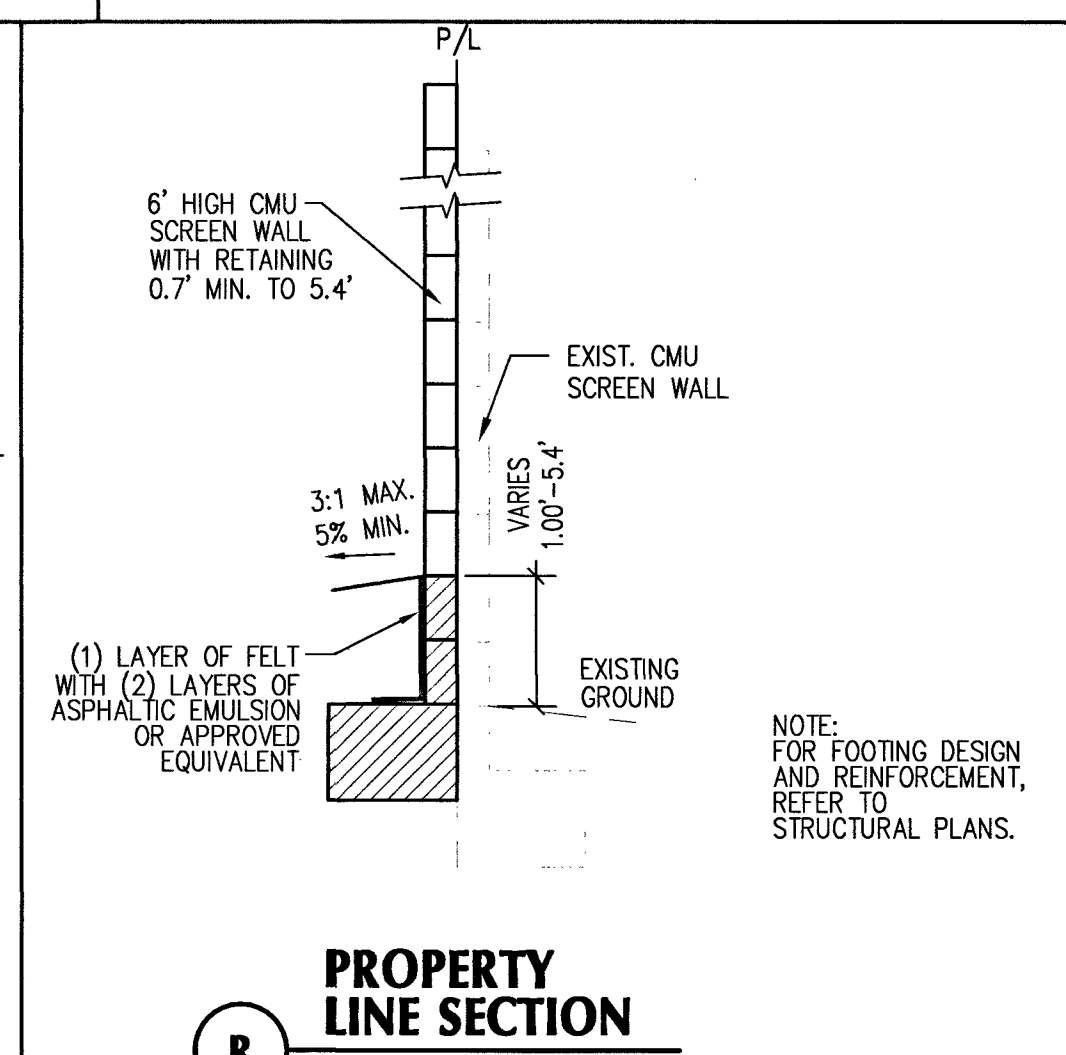
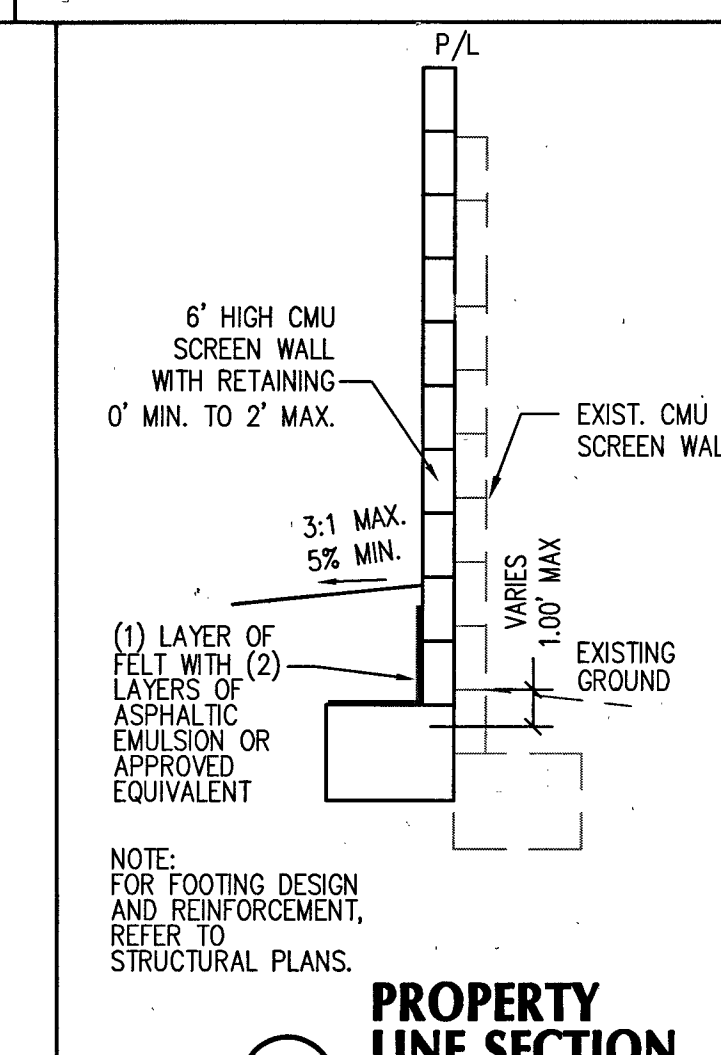
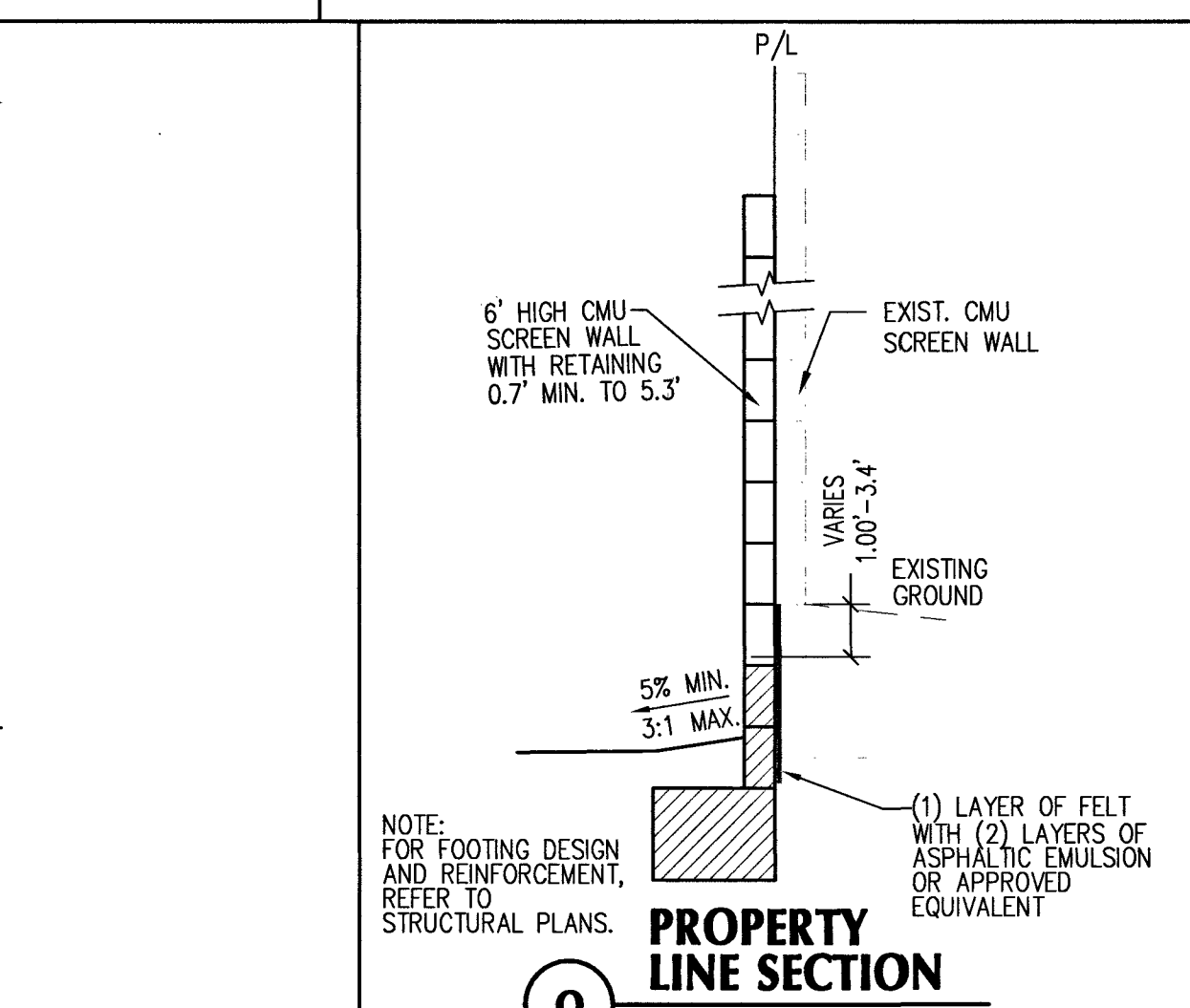
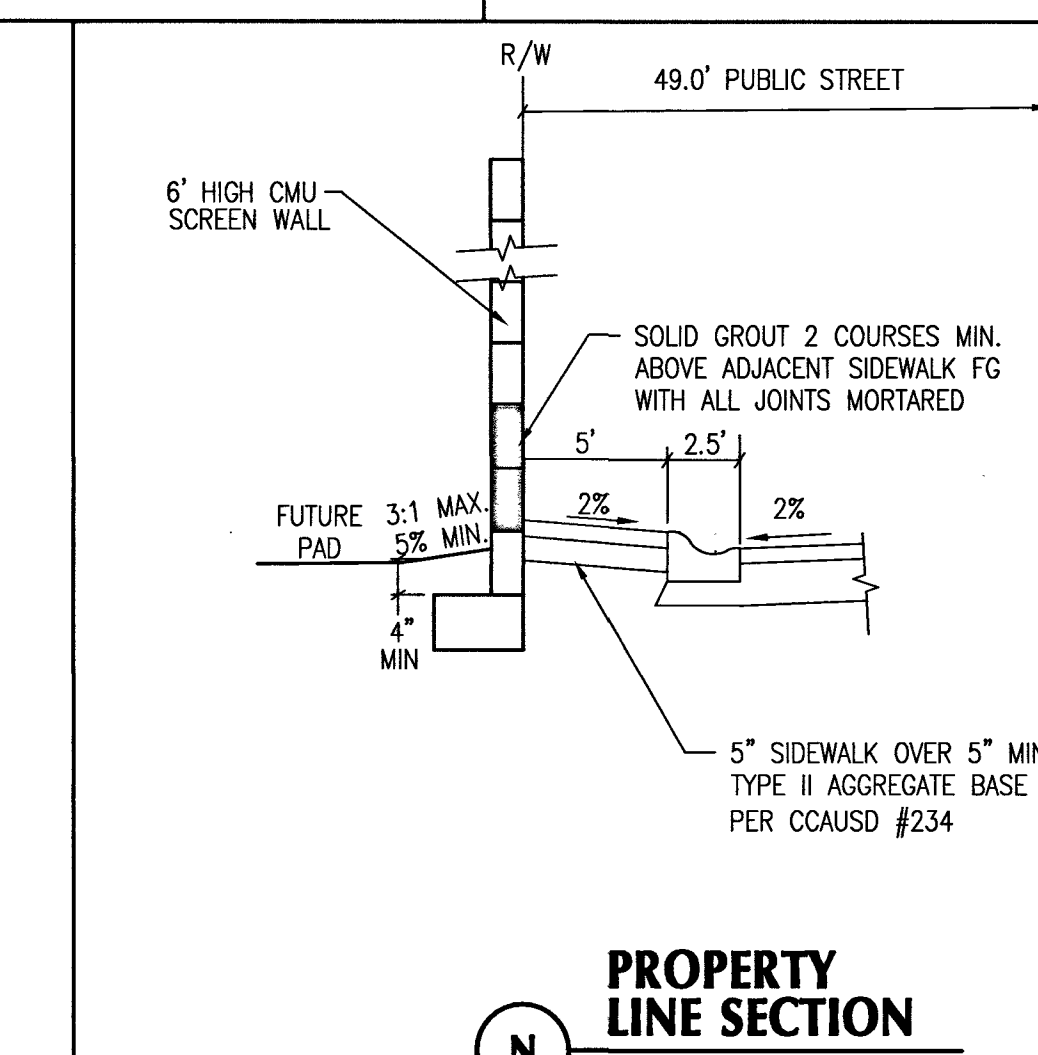
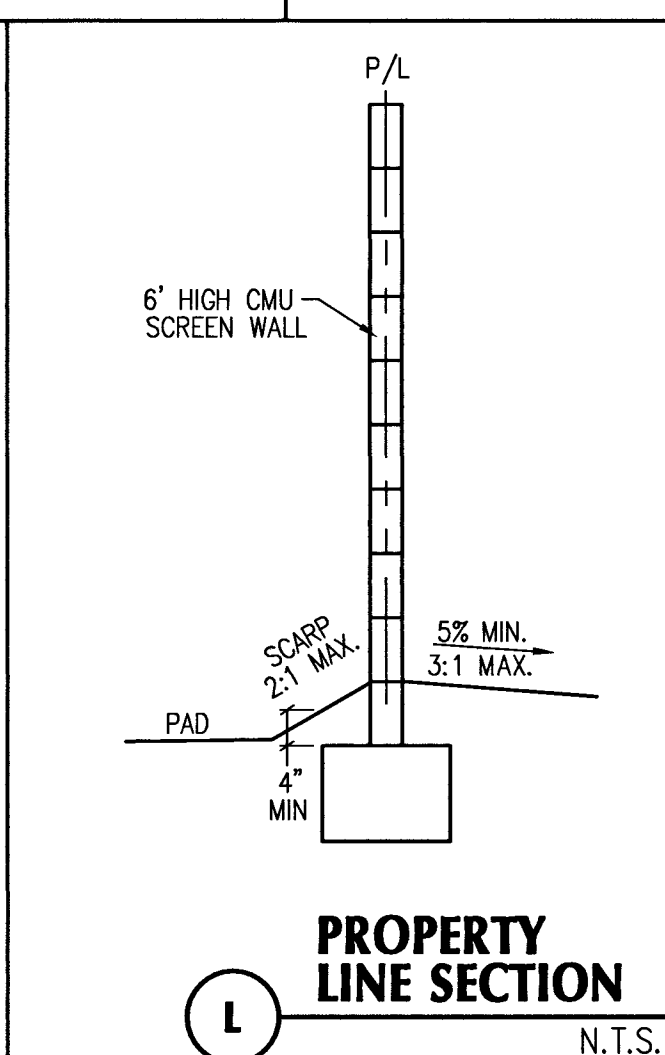
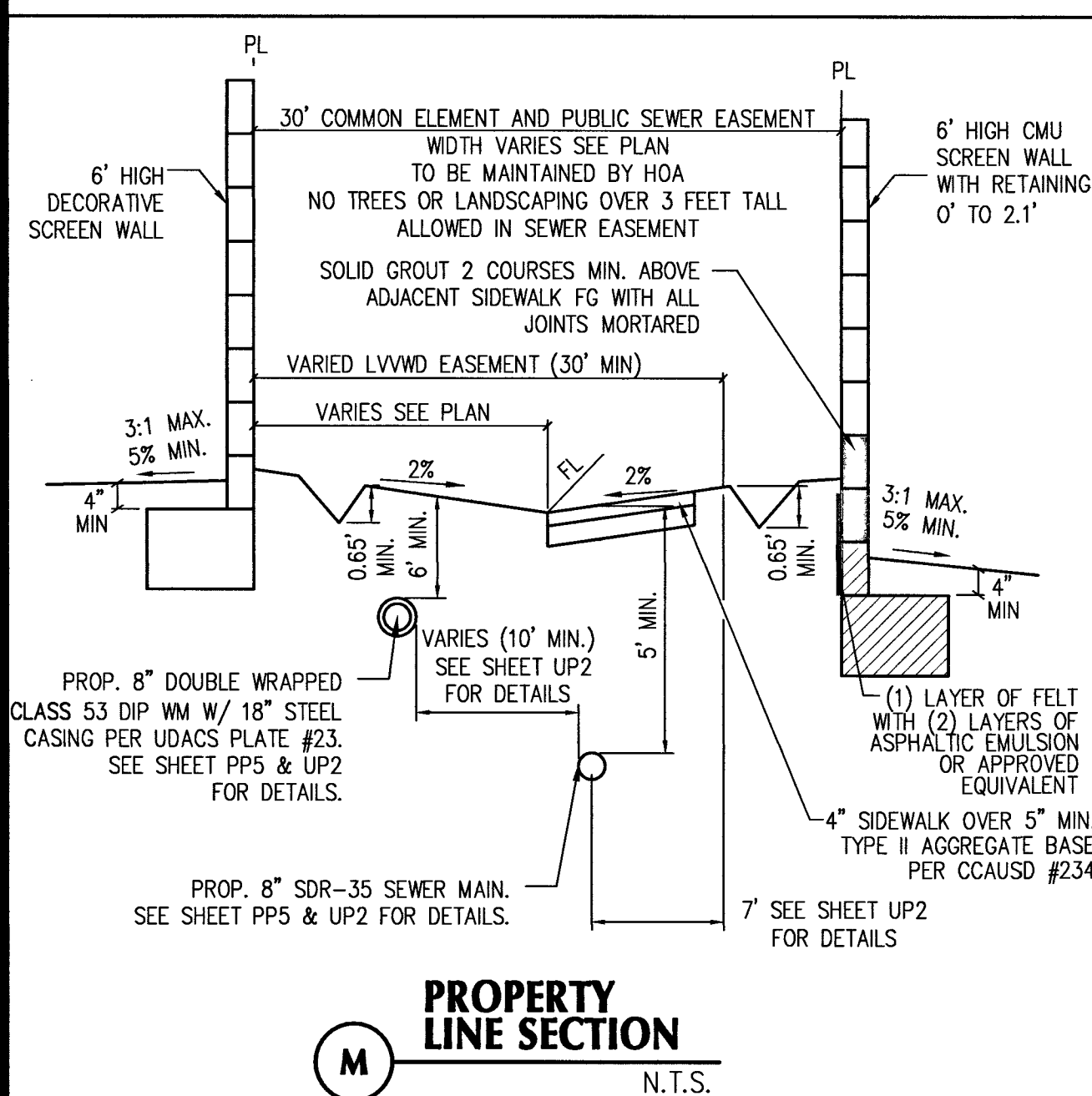
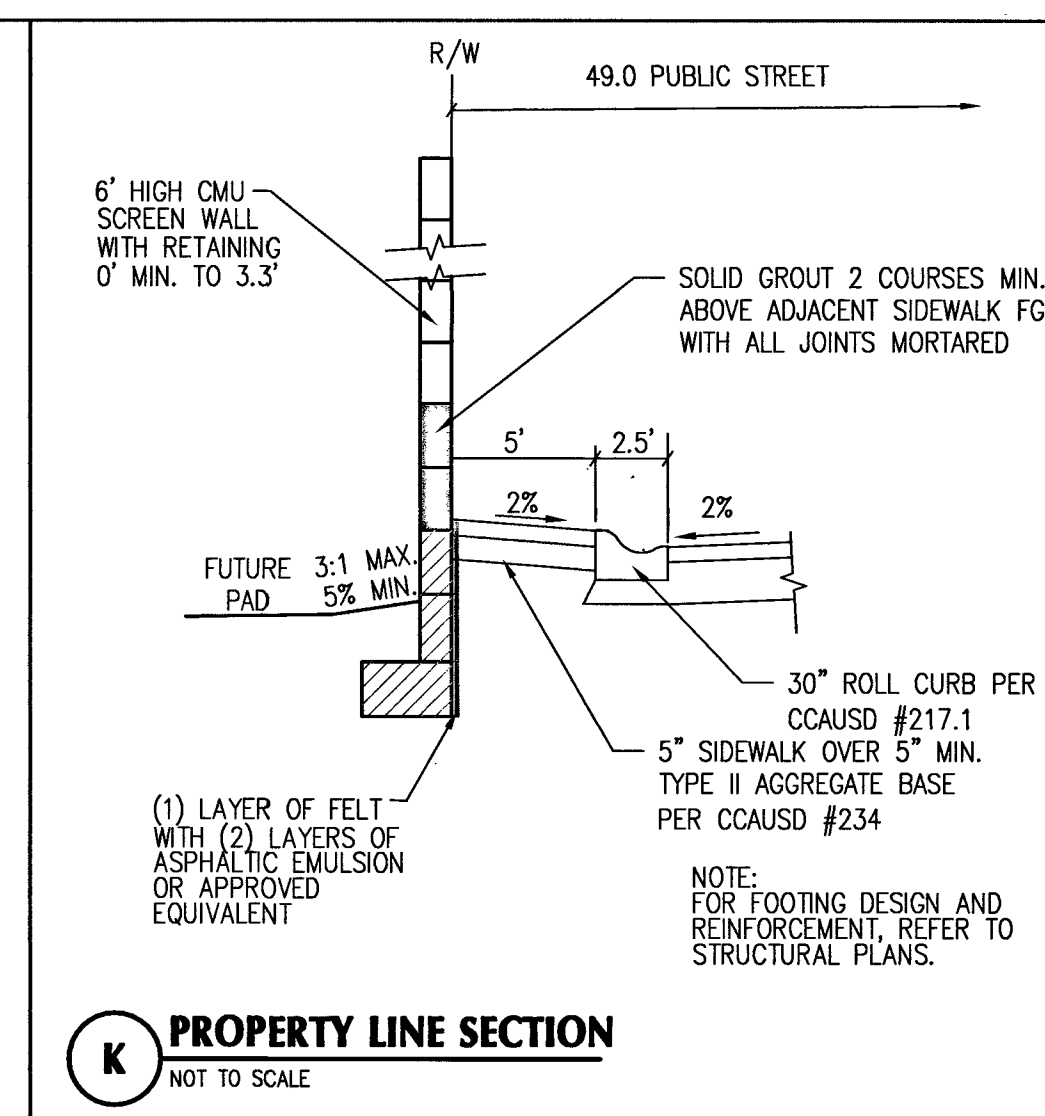
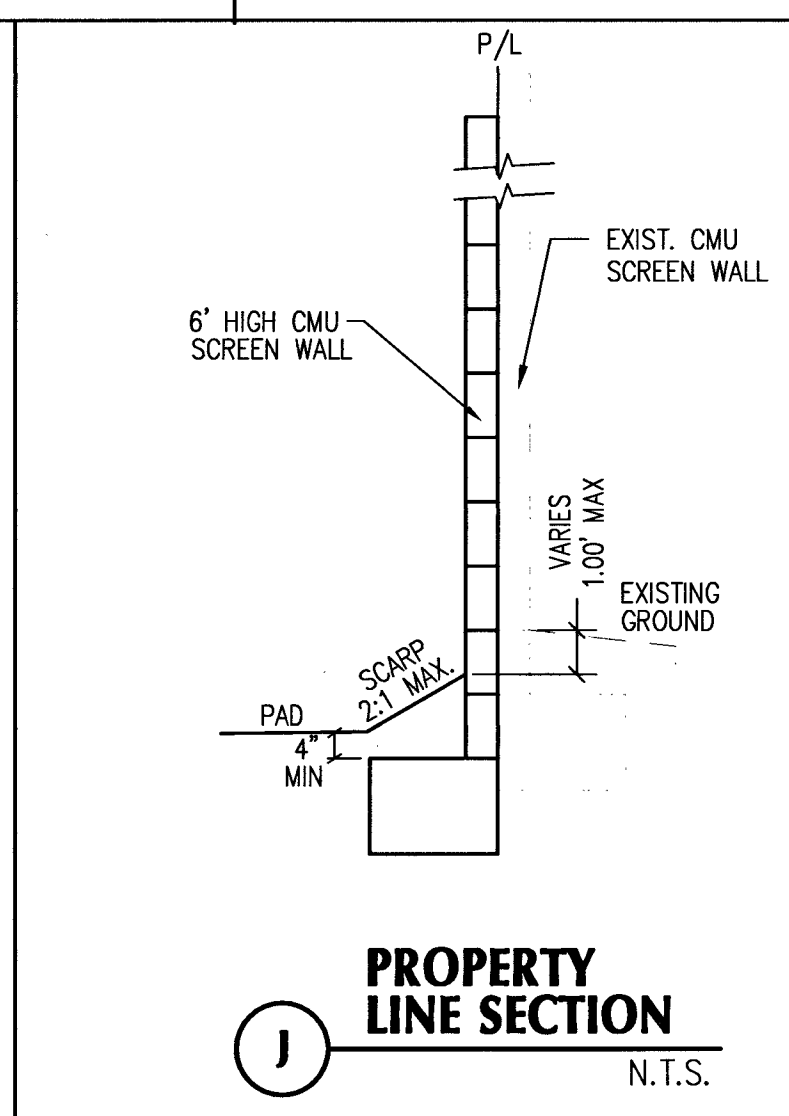
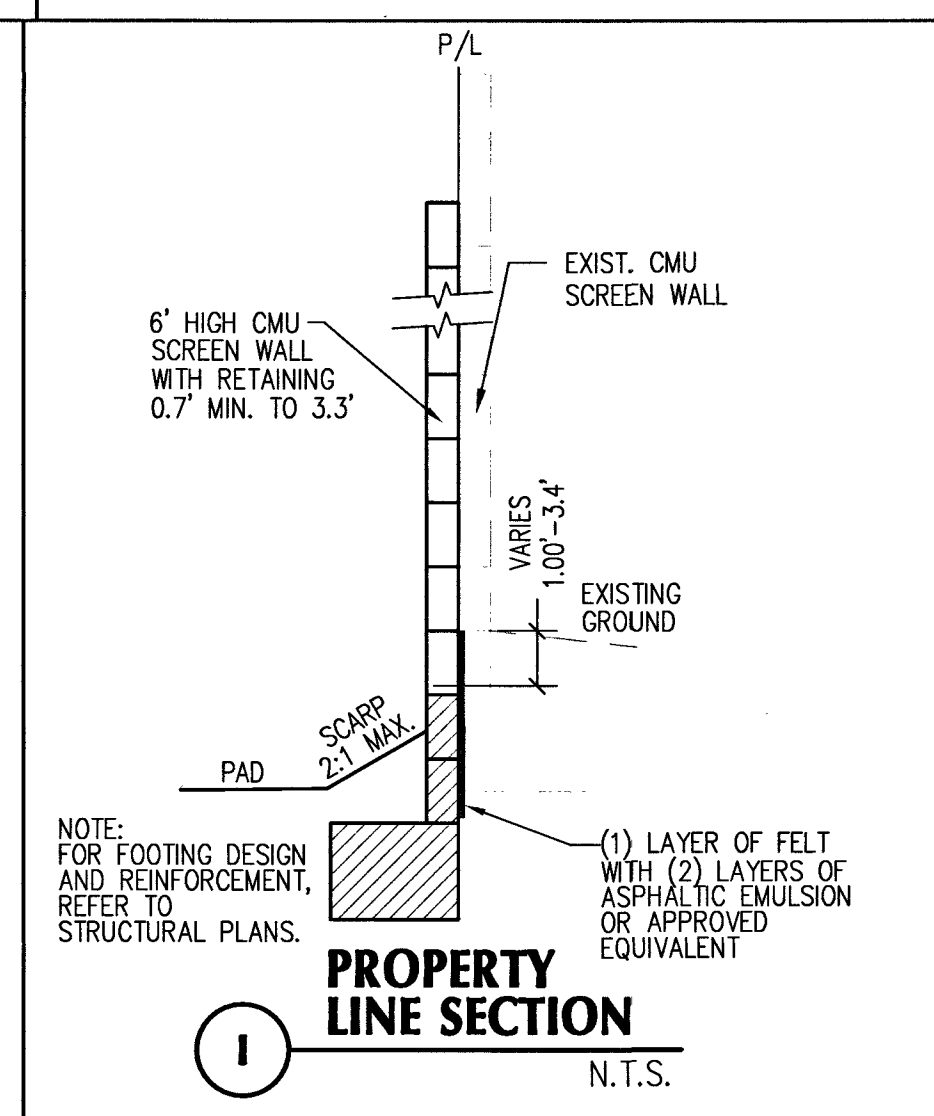
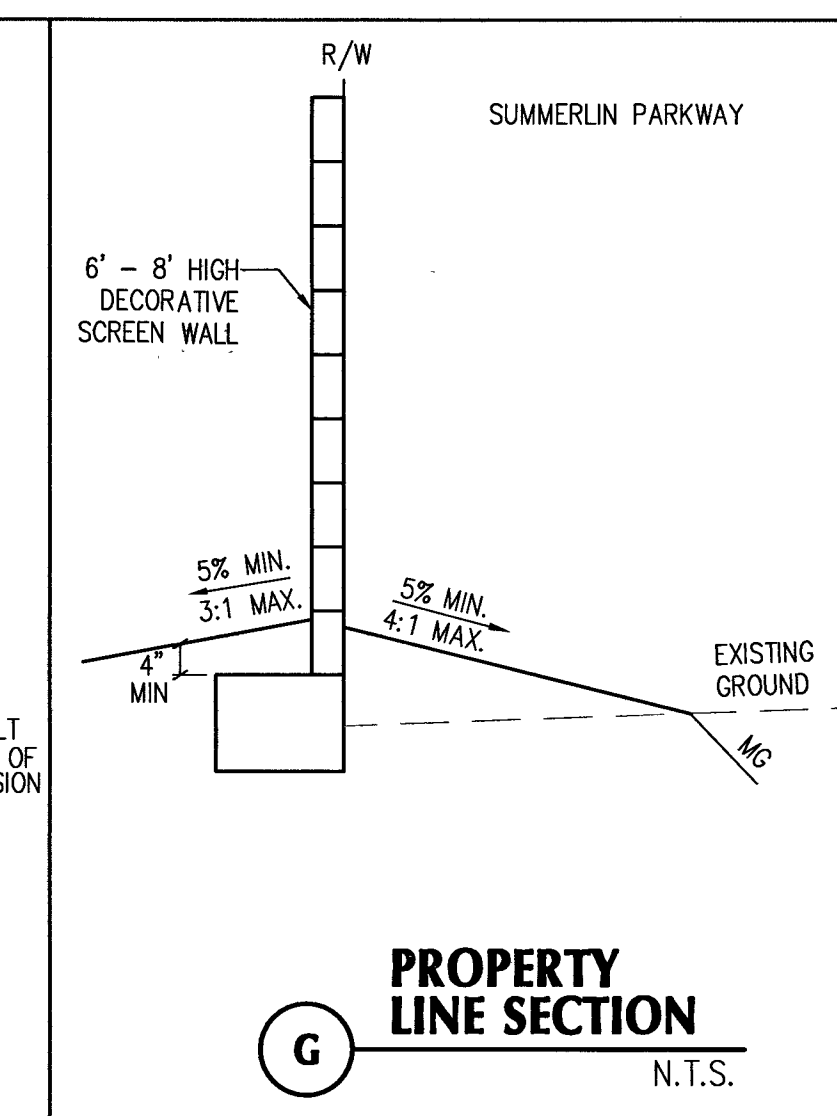
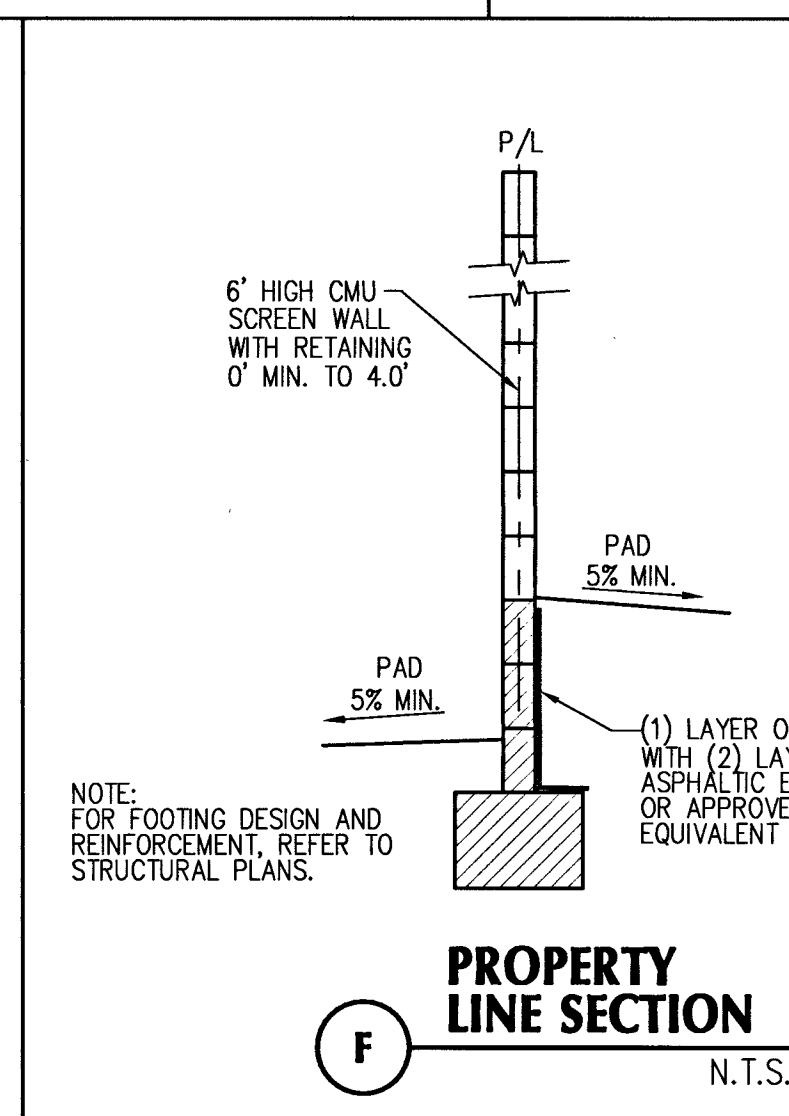
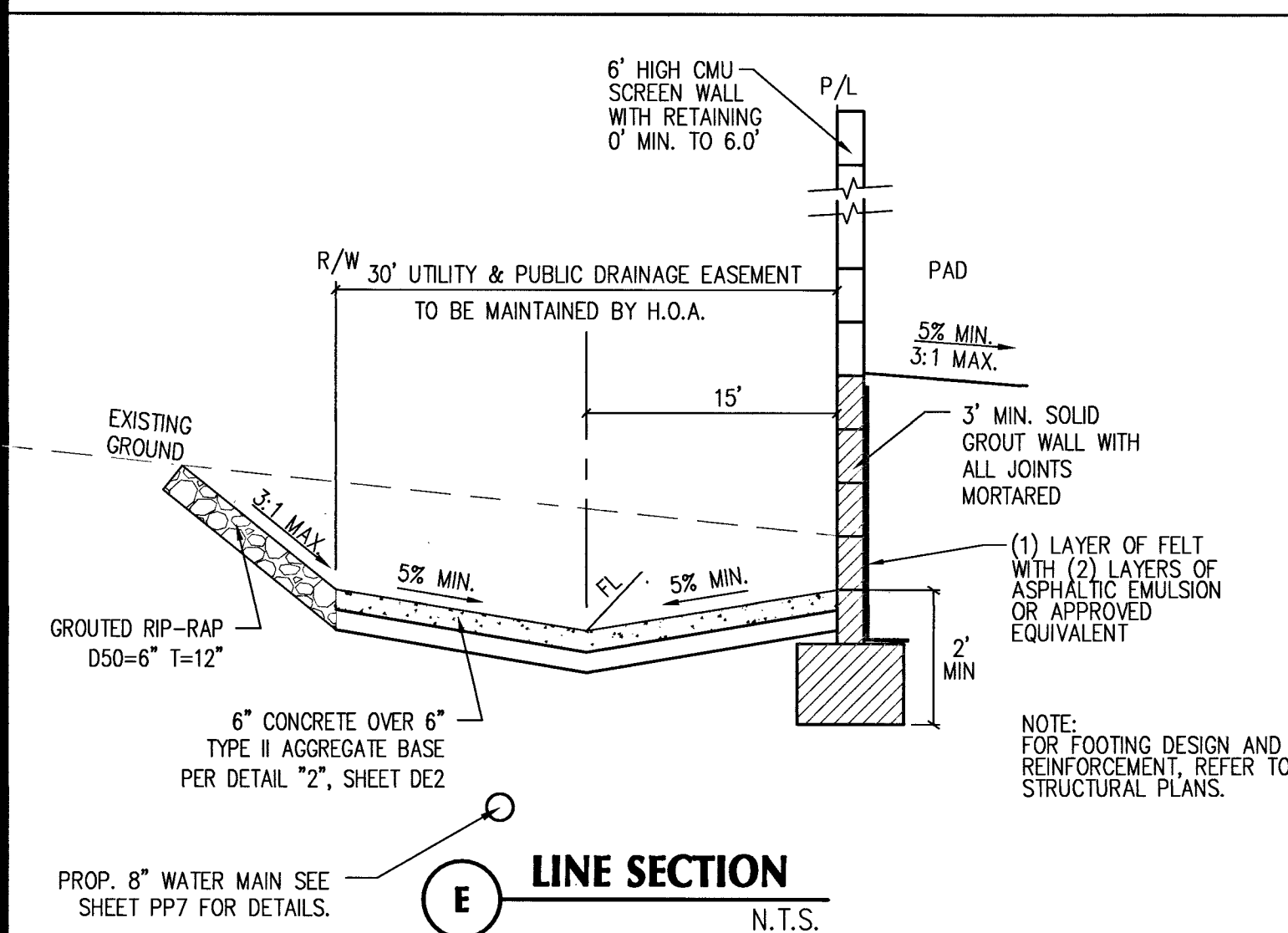
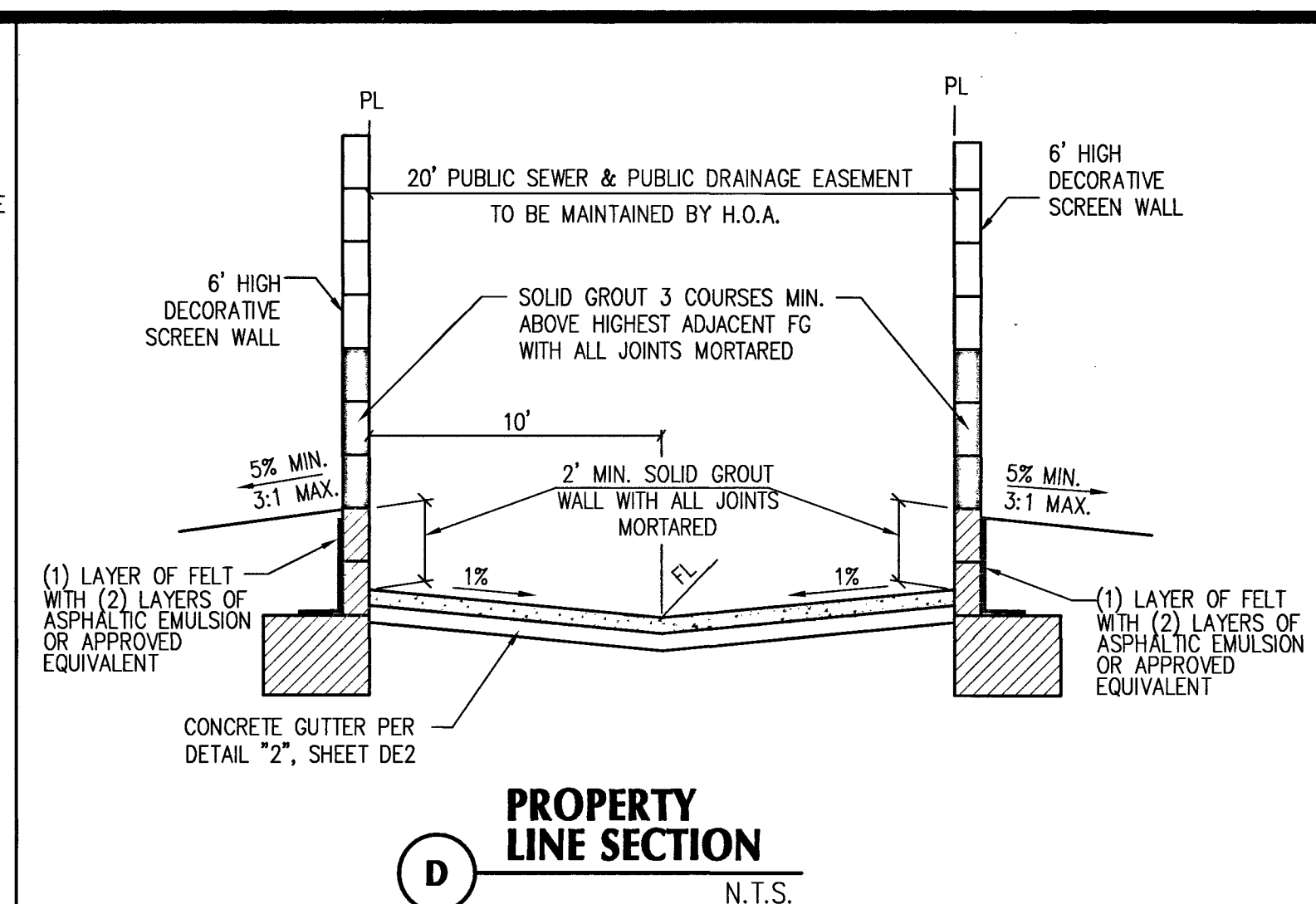
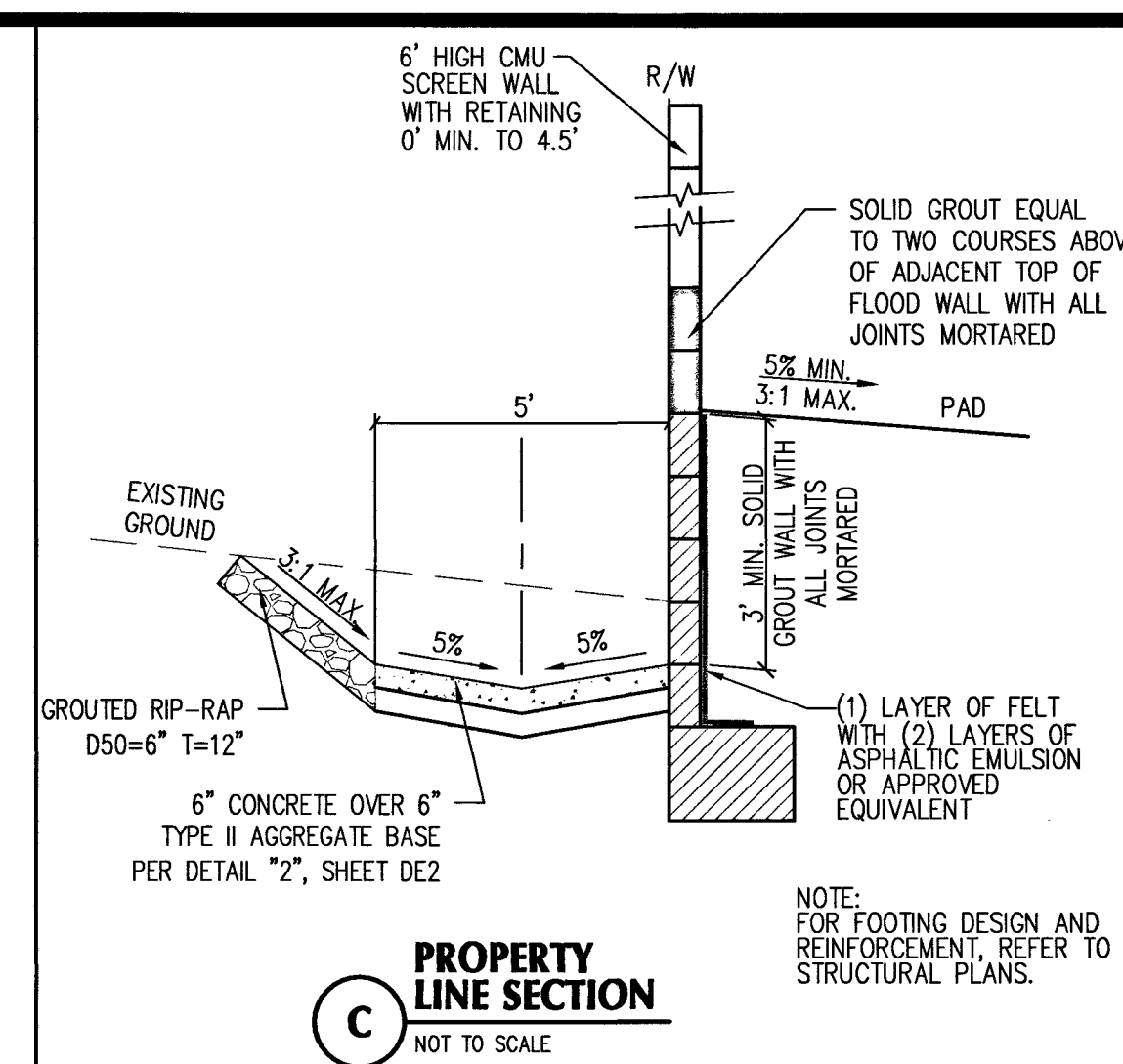
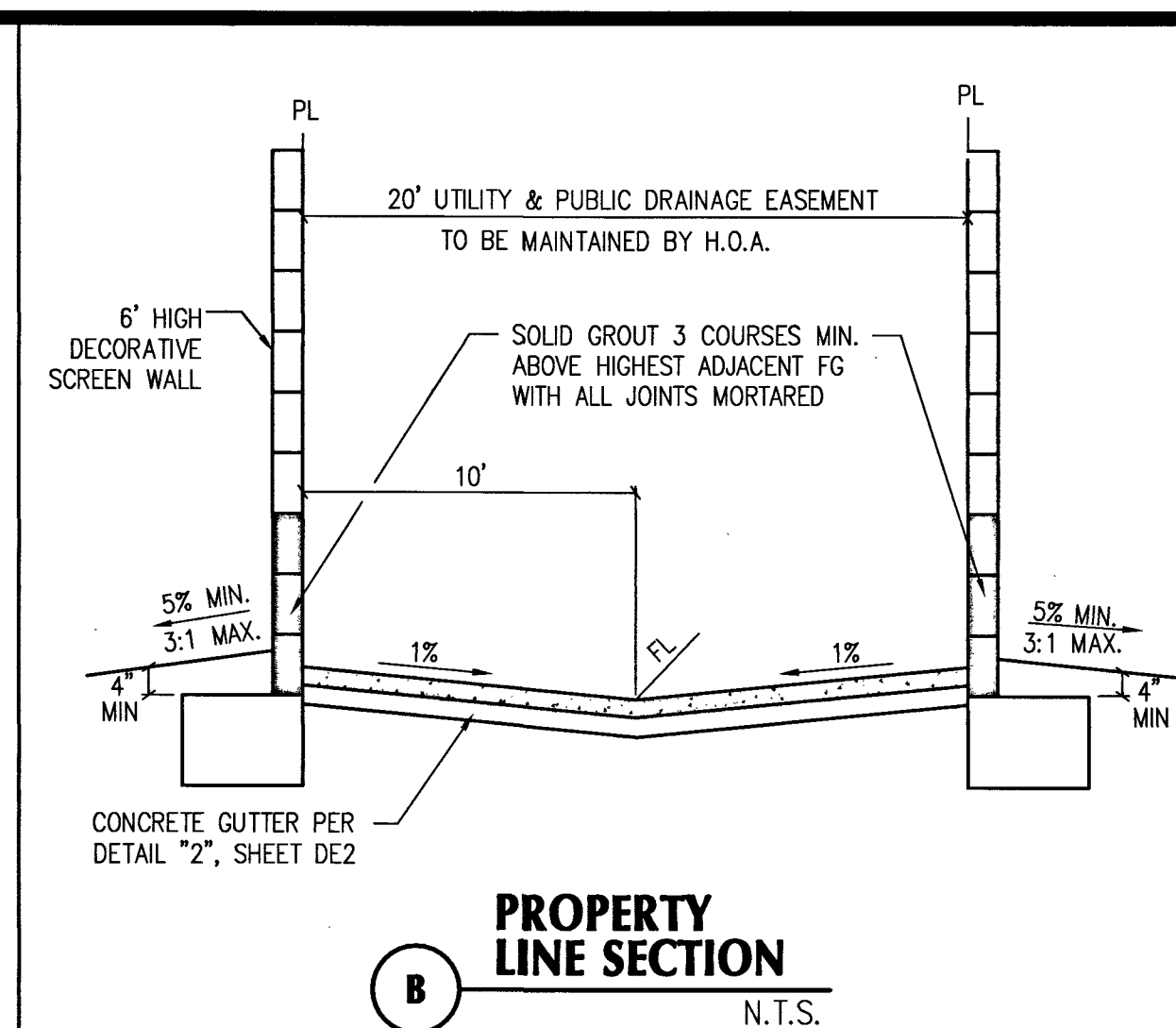
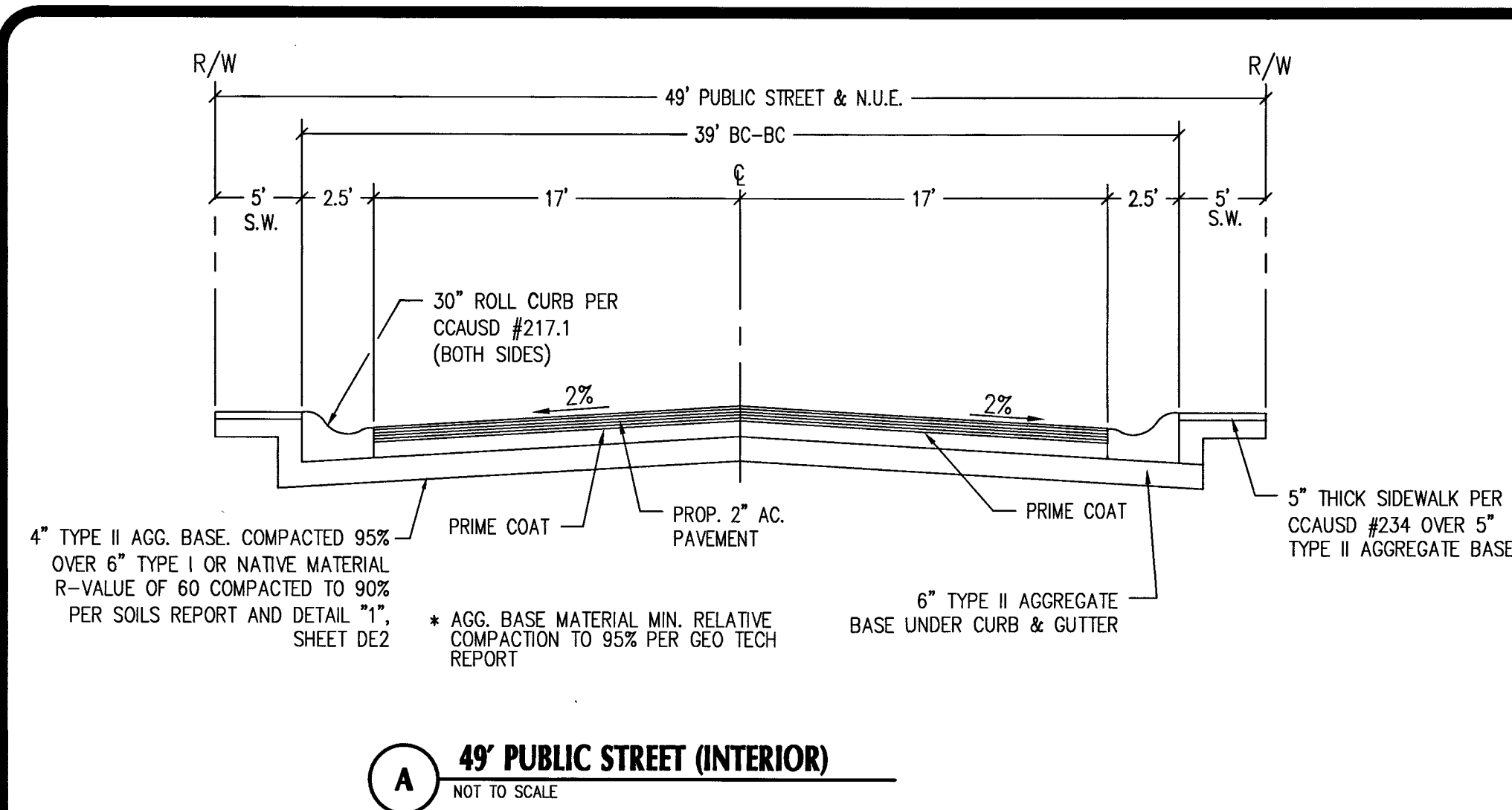








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UTILITY LINES. IT'S COSTLY.



1-800-227-2600



Call  
before you  
UnderGround

1-702-432-5300

FREIGHTWAY AND ARTERIAL  
SYSTEMS OF TRANSPORTATION

**APPROVED FOR CONSTRUCTION**

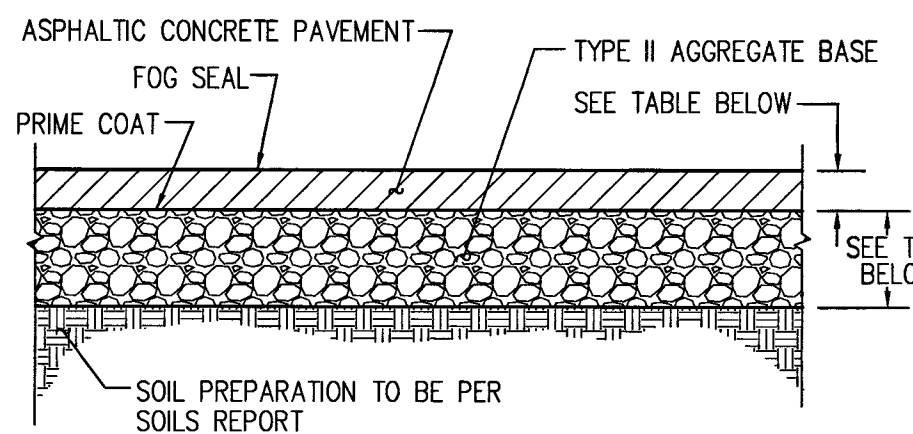
*Shawni Brown*

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES  
PROJECT NO. 135931 DATE: 02-06-14  
LVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

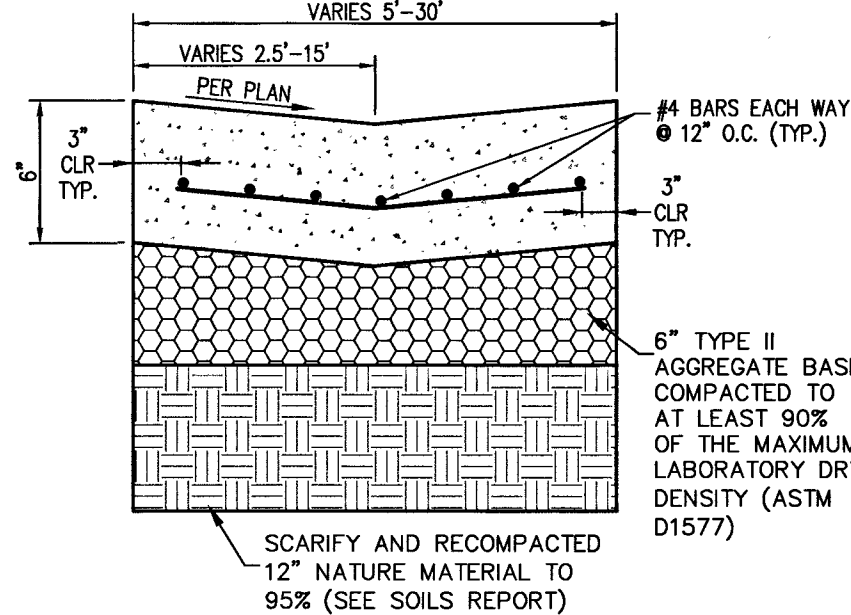
## GRADING DETAILS 1

**BLM 33**  
**BY D.R. HORTON**

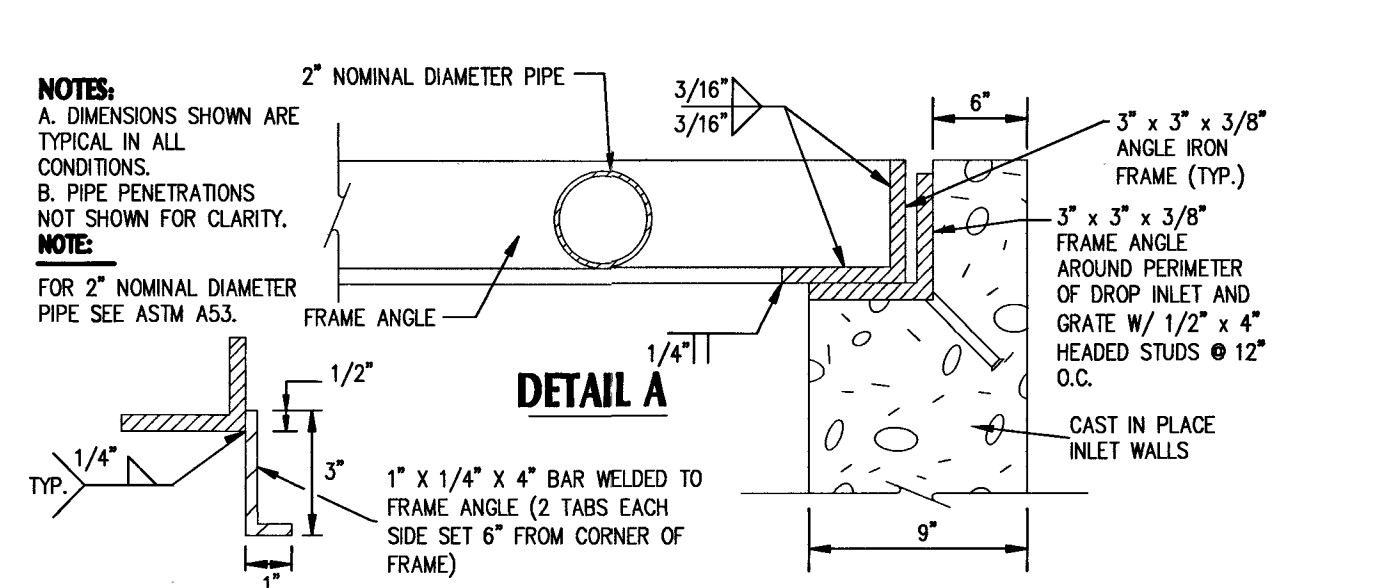
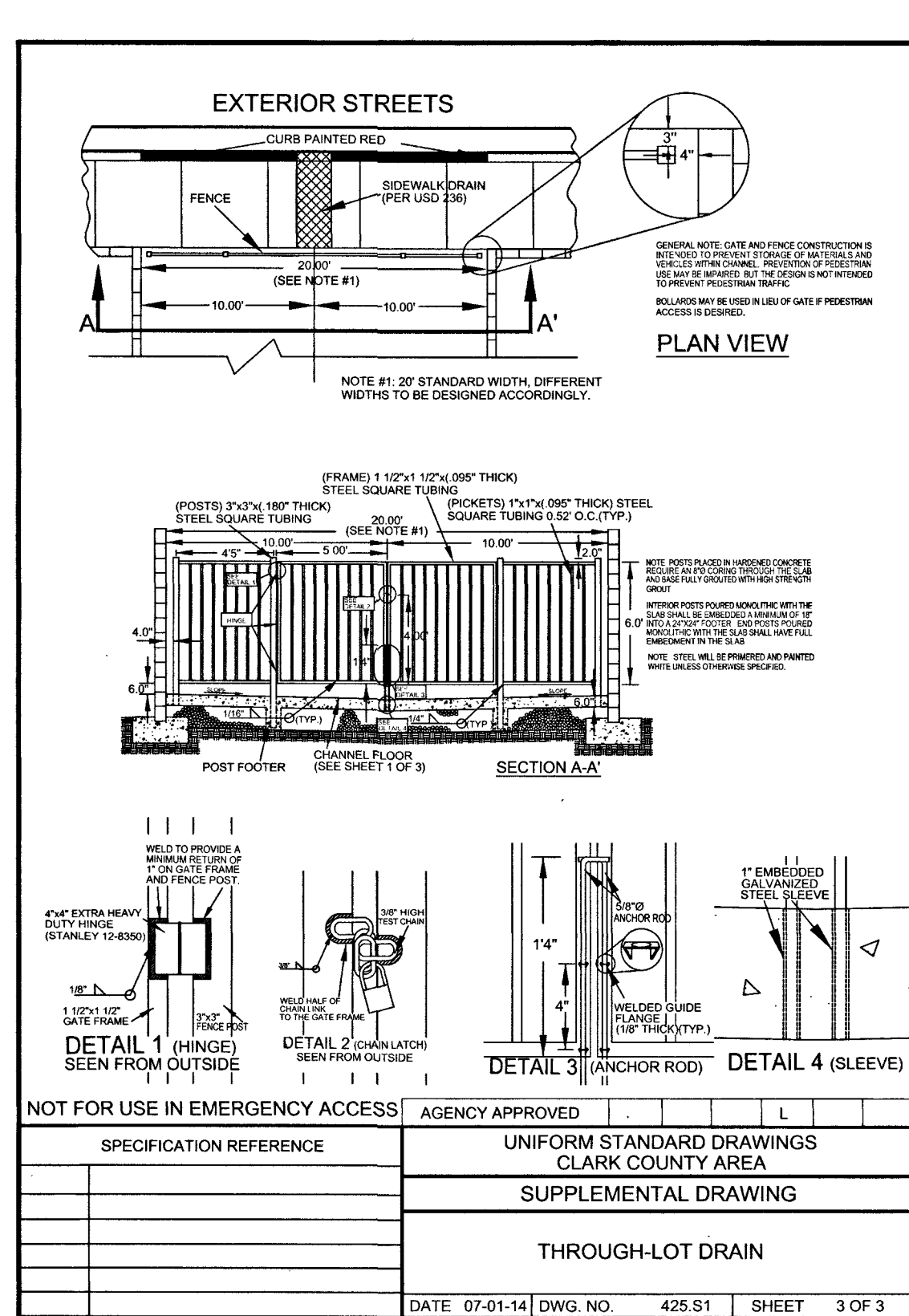
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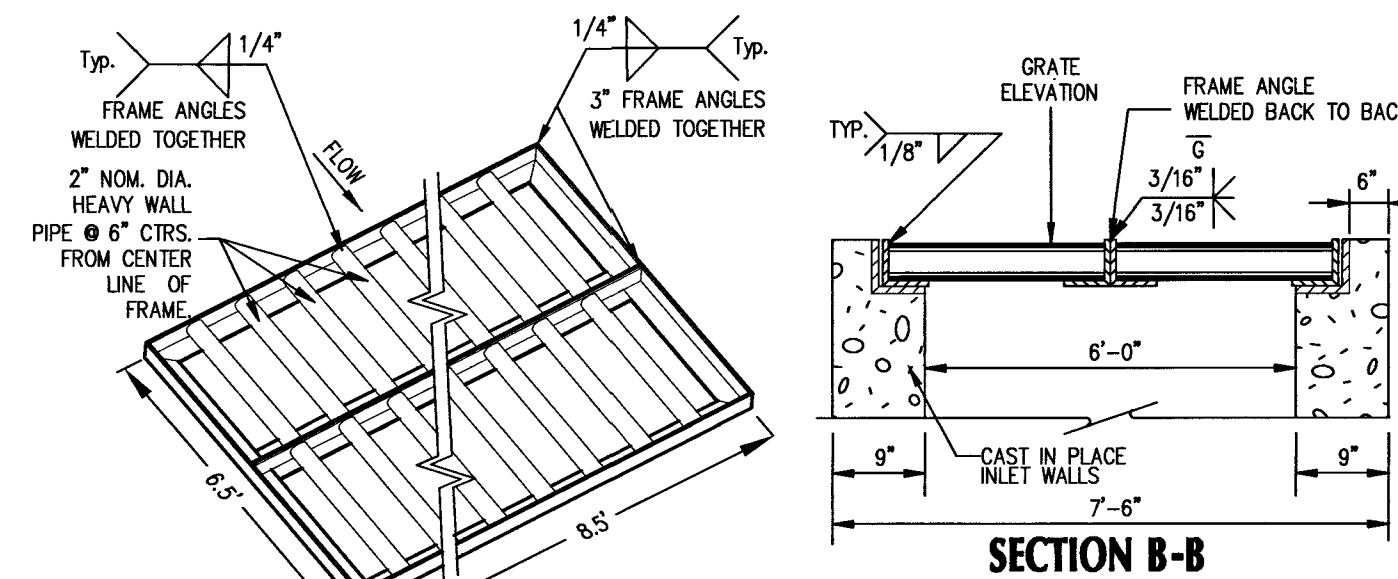
**1 PAVING SECTION**  
NOT TO SCALE



**2 CONCRETE GUTTER**  
NOT TO SCALE

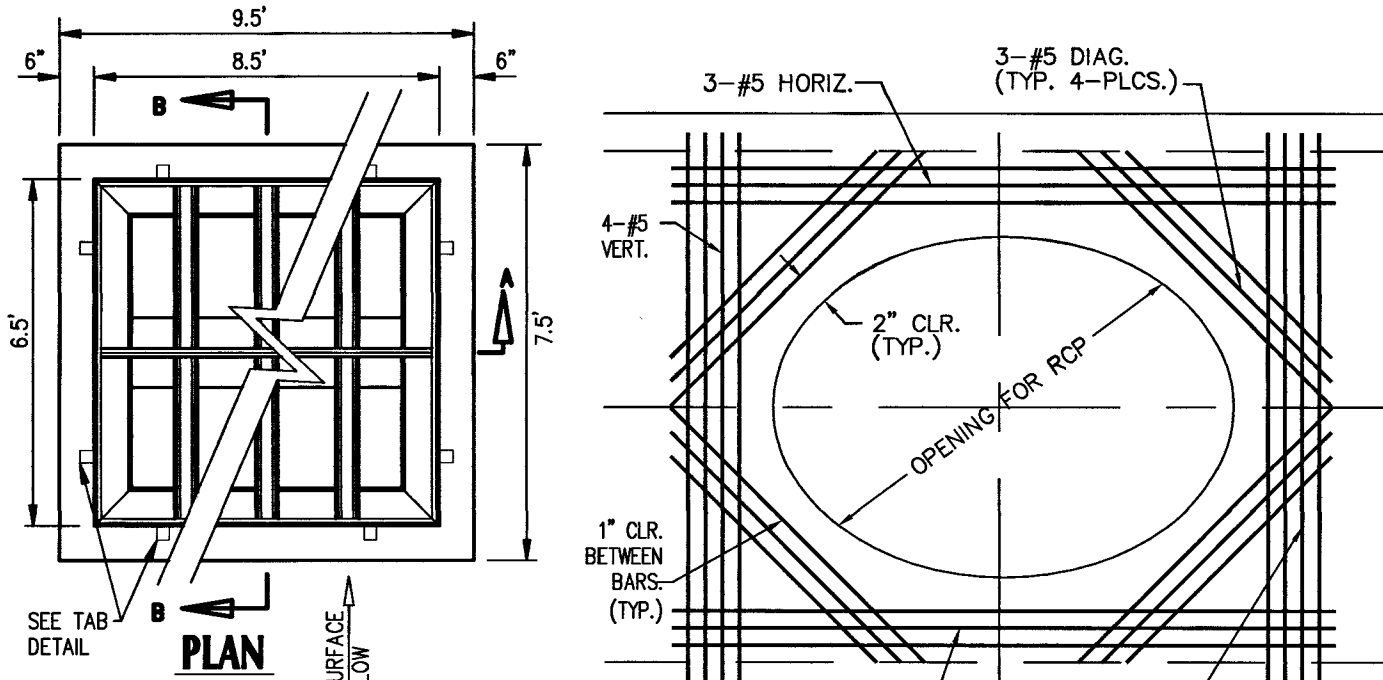


**TAB DETAIL**



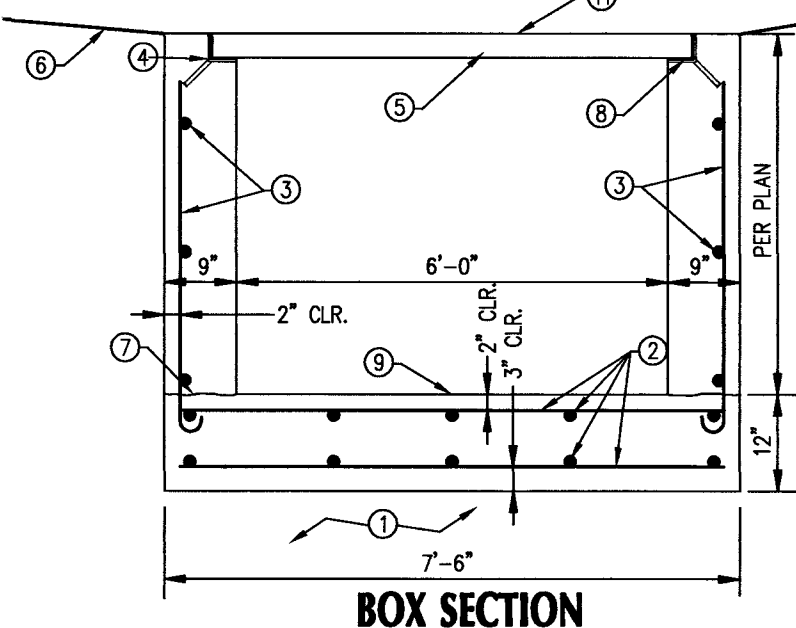
**FABRICATED GRATE DETAIL**

**4 8'x6' GRATE DETAIL**  
NOT TO SCALE

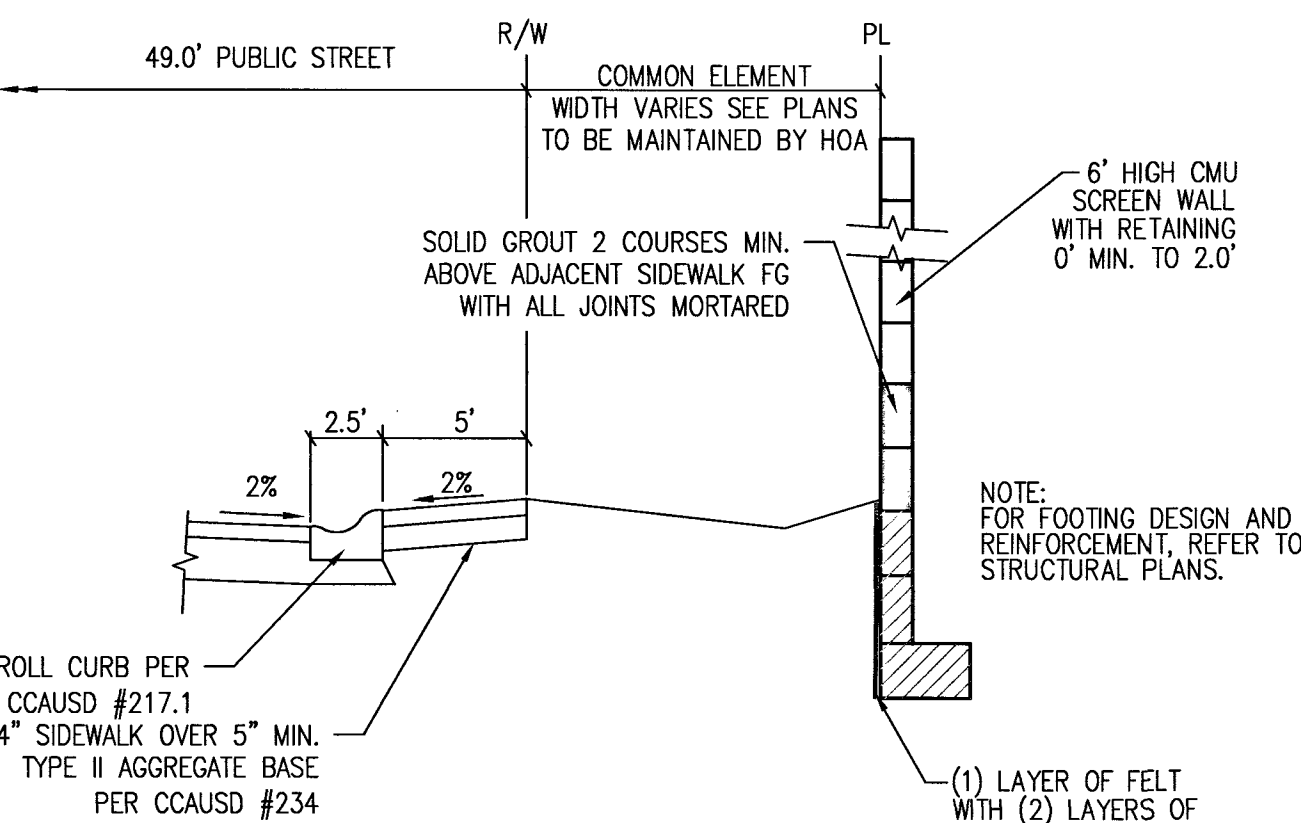


**RCP CONNECTION REINFORCEMENT**  
NOT TO SCALE

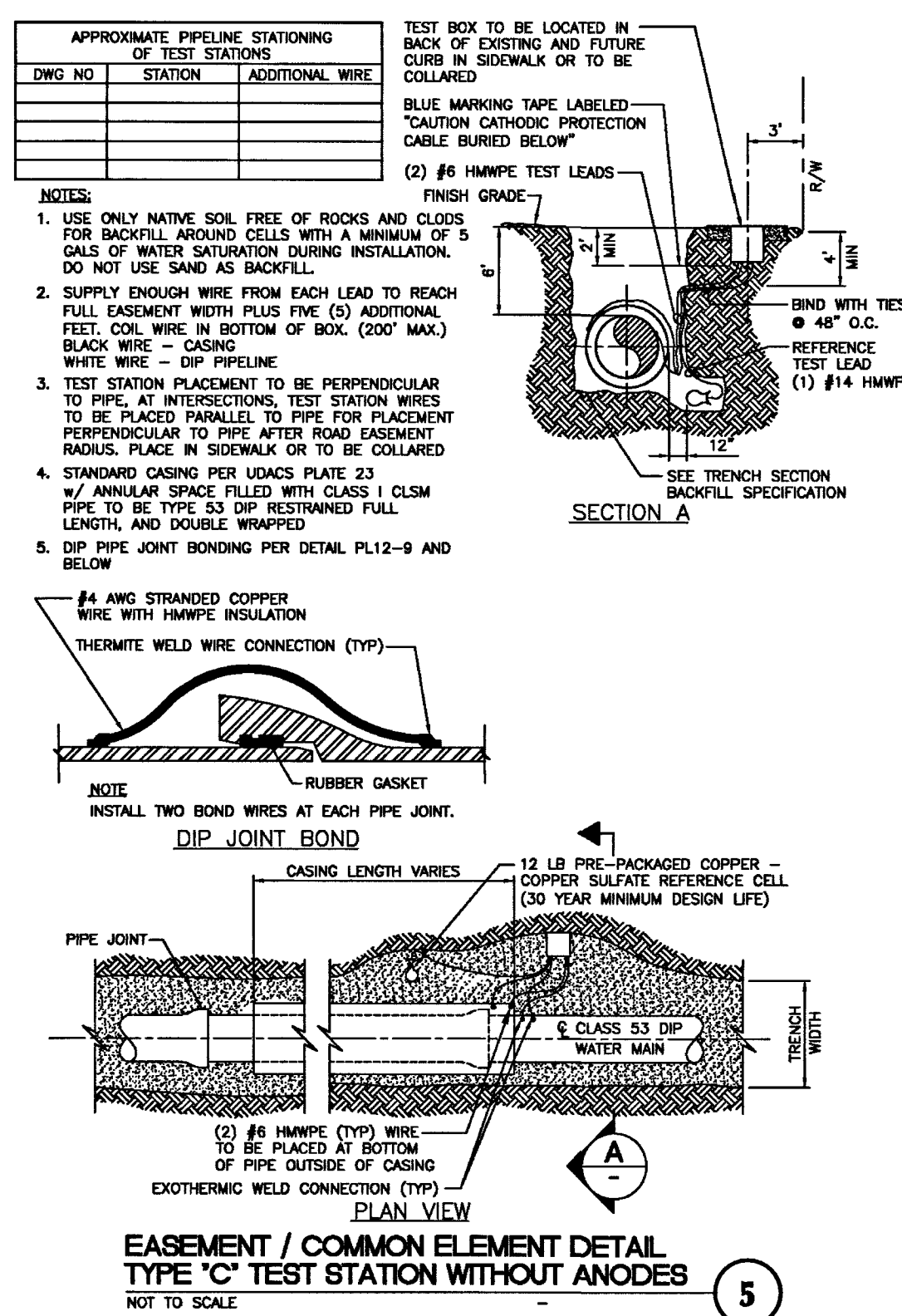
- CONSTRUCTION NOTES:**
- PROPERLY PREPARED SUB BASE PER SOILS REPORT.
  - #5 AT 14" EACH WAY TAB.
  - #4 BARS TO HAVE STD. HOOK INTO FLOOR SLAB.
  - 3" x 3" x 3/8" FRAME ANGLE W/ 1/2" x 4" HEADED STUDS @ 12" O.C.
  - FABRICATED GRATE AND FRAME.
  - FINISHED GRADE PER PLAN.
  - ROUGHENED CONSTRUCTION JOINT AT CONTRACTORS OPTION. ROUGHEN INTERFACE 1/4" AMPLITUDE.
  - PROVIDE 1/4" GAP BETWEEN FRAME ANGLE AND GRATE ALL AROUND PERIMETER.
  - INVERT (INV) PER PLAN.
  - #5 AT 16" O.C. EACH WAY OUTSIDE FACE ONLY WHERE ADDITIONAL CURBING IS SHOWN PER PLAN. HOOK BARS TO HAVE STD. HOOK INTO FLOOR SLAB.
  - TOP OF GRATE (TG) PER PLAN.
  - TOP OF CURB (TC) PER PLAN.



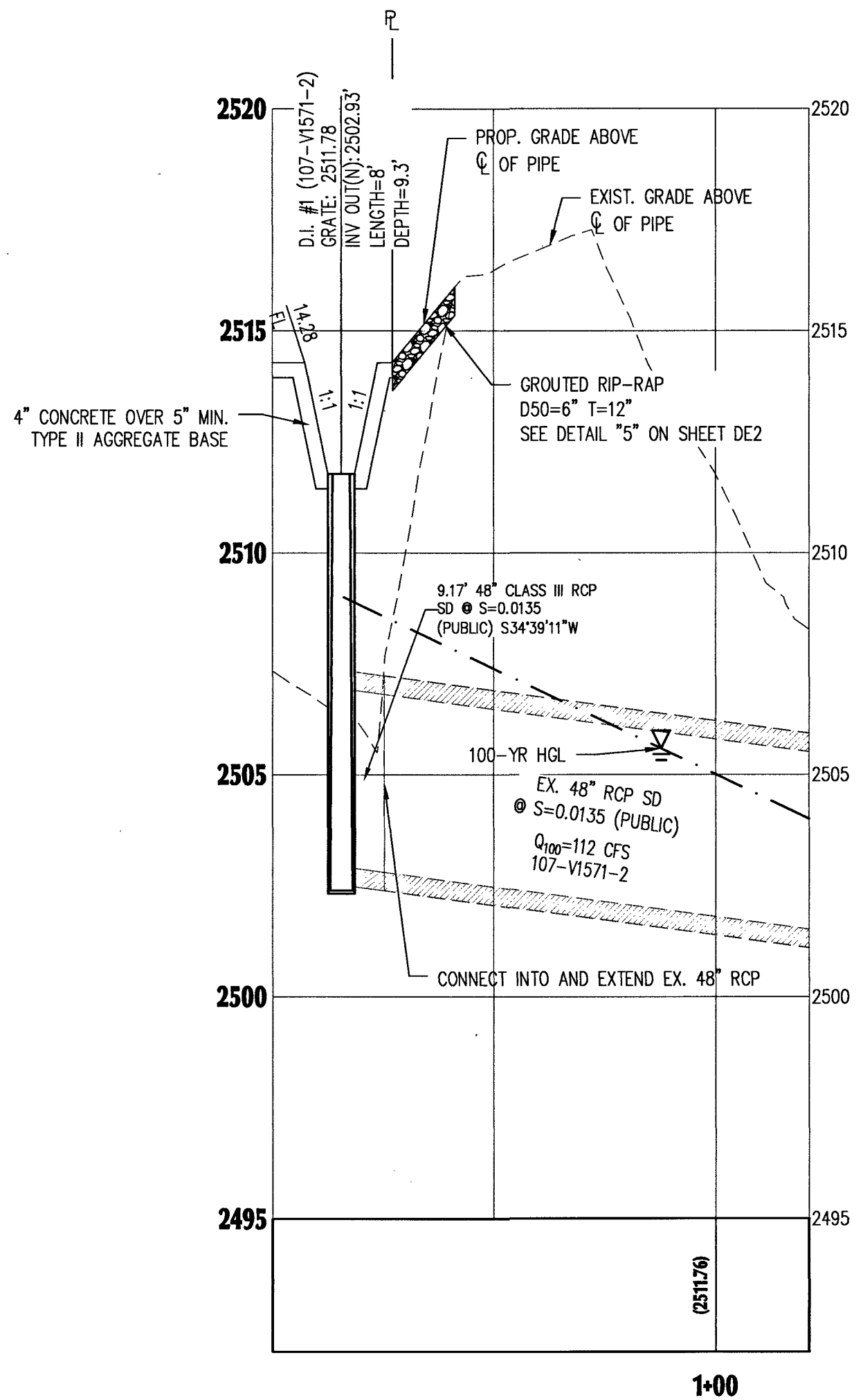
**BOX SECTION**



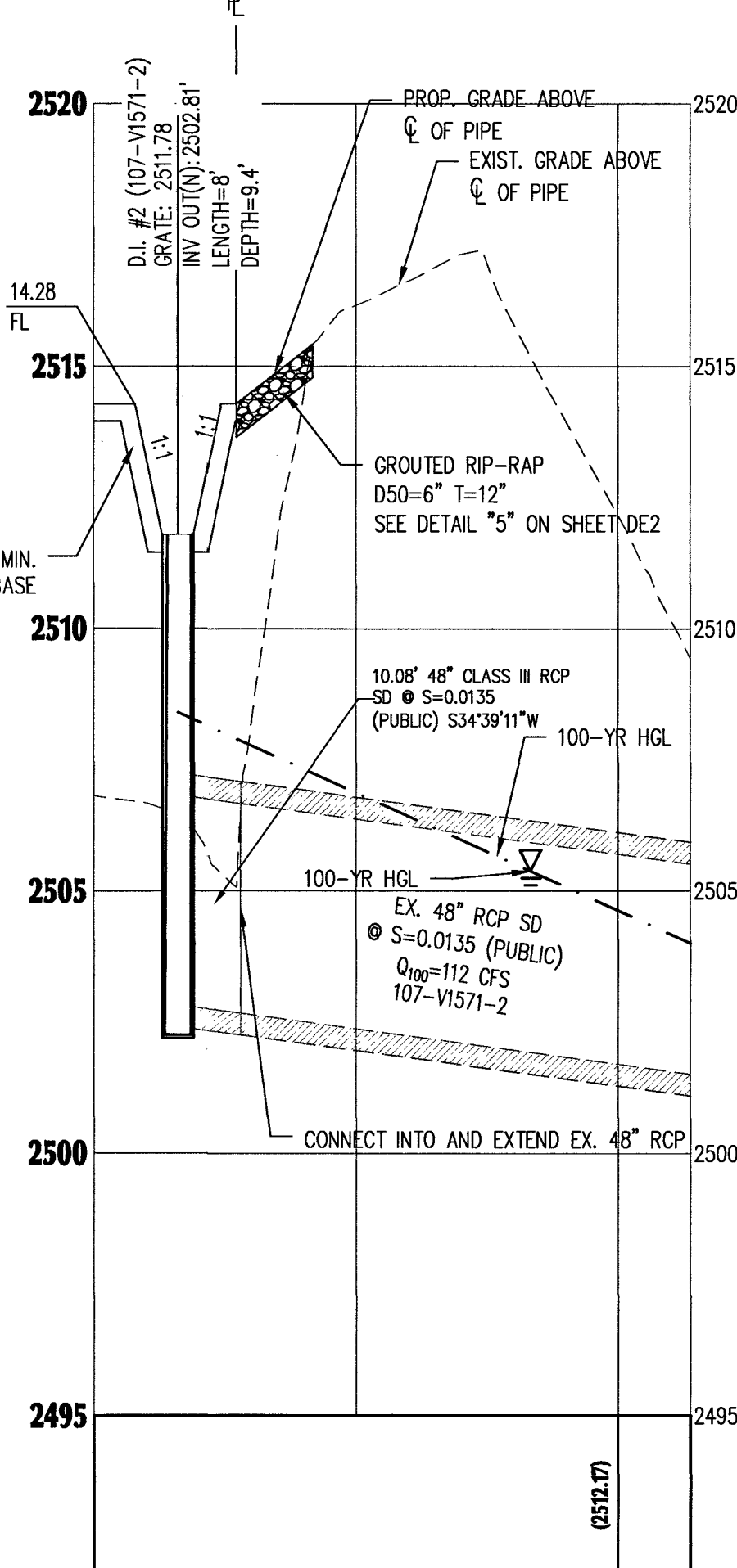
**U PROPERTY LINE SECTION**  
NOT TO SCALE



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



**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**

Las Vegas Valley Water District Engineering Services  
PROJECT NO. 135931A DATE: 02-04-14  
LVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

**GRADING DETAILS 2**  
**BLM 33**  
**BY D.R. HORTON**

| NO. | DATE | REVISIONS | DESCRIPTION |
|-----|------|-----------|-------------|
| 1   |      |           |             |
| 2   |      |           |             |
| 3   |      |           |             |
| 4   |      |           |             |
| 5   |      |           |             |
| 6   |      |           |             |
| 7   |      |           |             |
| 8   |      |           |             |
| 9   |      |           |             |
| 10  |      |           |             |

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

**DE2**  
**4**  
**24**

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 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.
2. 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.
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, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, 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 NVR100000, 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 NORTHING: 200,000 METERS  
FALSE EASTING: 100,000 METERS  
STANDARD PARALLEL SCALE: 1.0001  
UNITS: U.S. SURVEY FOOT (SFT)

BENCHMARK

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

ELEVATION: 2551.98 FEET  
277.84 METERS

QTY 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 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.

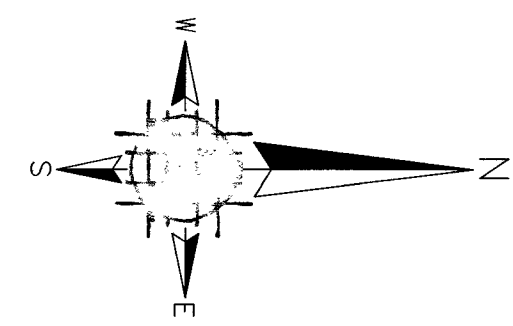
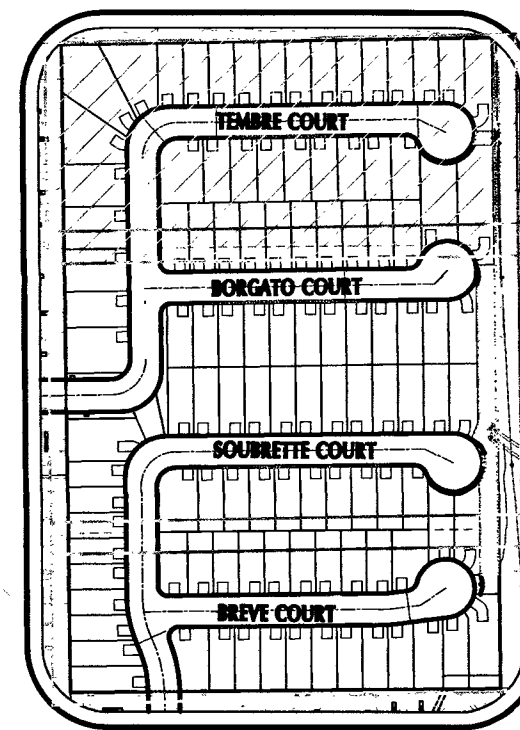
GENERAL NOTES

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%

LA MANCHA OESTE

138-28-810-030

(R-PD6)



SCALE: 1" = 30'

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
- AC
- BCR
- BVC
- BL
- CL
- C.E.
- C&G
- EP
- EVC
- EX
- FF
- FG
- FL
- GB
- LSA
- MG
- M.U.E.
- N.U.E.
- PAD
- PP
- P.S.
- PL
- P.U.E.
- R/W
- SVZ
- TC
- TF
- TRW
- TFW
- TRANS
- VG
- V.C.
- U.O.N.
- UNIT BOUNDARY
- MATCHLINE
- AREA OF NEW AC PAVEMENT

APPROVED FOR CONSTRUCTION

*Samuel Dean*  
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES  
PROJECT NO. 135931-1 FIRST APPROVED DATE: 02-00-19

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, DS5012A"

*Brandon G. Doty*  
BRANDON G. DOTY P.E. #20002

L18-02380 107V5099

GRADING PLAN 1

BLM 33

BY D.R. HORTON

| NO. | DATE     | DESCRIPTION     |
|-----|----------|-----------------|
| 1   | 02-00-19 | DESIGNED BY: CW |
| 2   | 12/2018  | CHECKED BY: BGD |
| 3   |          | DATE: 12/2018   |
| 4   |          |                 |
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| 42  |          |                 |

GP1

5

24

PROJECT: 135931A QS: 136-26-56

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

ROCKMOSS ST.  
(PUBLIC)

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

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

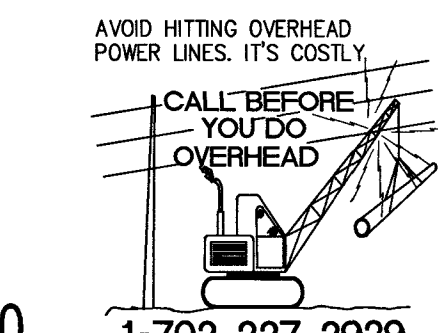
FLOOD NOTE:

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



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SYSTEM OF TRANSPORTATION

Call before you Dig  
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1-702-227-2929



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

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)

EARTHWORK VOLUMES:

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RAW FILL: 48,607 CY  
PRELIMINARY RAW NET: 19,079 CY IMPORT  
TOTAL SITE AREA: 15.6 ACRES  
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CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

MATCHLINE-SEE SHEET GP3

CONSTRUCTION NOTES:

- SAW CUT 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 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

*Shuanne Dean*  
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES  
PROJECT NO. 135931 FIRST APPROVED DATE: 02-06-19

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 REACHED BY 50 PERCENT OR MORE.

DRAINAGE STRUCTURE TABLE

| STRUCTURE NAME | STRUCTURE DETAILS                    | DEPTH       | SIZE  |
|----------------|--------------------------------------|-------------|-------|
| *DI #1         | GRATE: 2511.78<br>INV OUT: (2502.93) | DEPTH: 9.3' | 8'x6' |
| *DI #2         | GRATE: 2511.78<br>INV OUT: (2502.81) | DEPTH: 9.4' | 8'x6' |

\*STORMWATER INLET CONCRETE STAMP PER USDOCC DRAWING #421

GENERAL NOTES

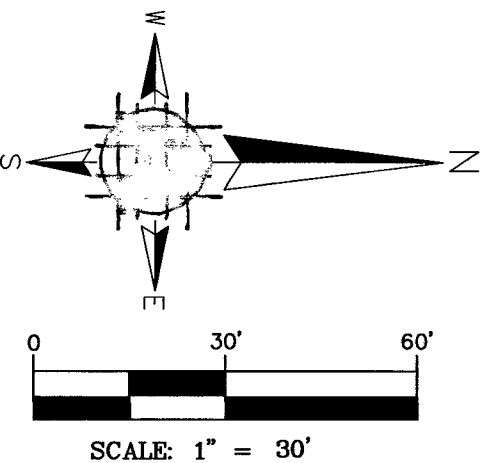
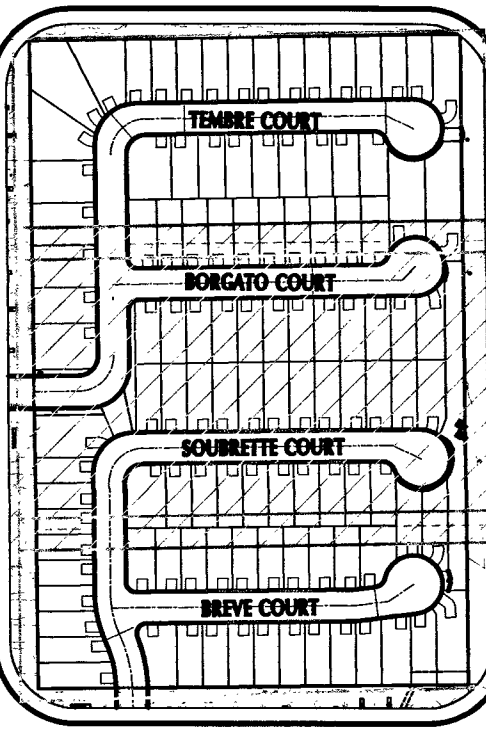
- SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
- CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL  
DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY.  
FOR SOILS INFORMATION, REFERENCE 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, DSS012A

*Brandon G. Doty*  
BRANDON G. DOTY P.E. #20002  
DATE: 12/20/18

L18-02380 107V5099

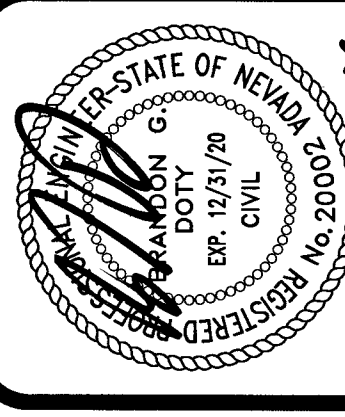


LEGEND

- 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
- BACK OF CURB
- BACK OF CURB RETURN
- BEGIN VERTICAL CURVE
- BOUNDARY LINE
- CENTERLINE
- COMMON ELEMENT
- CURB AND GUTTER
- EDGE OF PAVEMENT
- END VERTICAL CURVE
- EXISTING
- FINISH FLOOR
- FINISH GRADE
- FLOW LINE
- GRADE BREAK
- LANDSCAPE AREA
- MATCH EXISTING GRADE
- MUNICIPAL UTILITY EASEMENT
- NON EXCLUSIVE UTILITY EASEMENT
- PAD GRADE
- POWER POLE
- PRIVATE STREET
- PROPERTY LINE
- PUBLIC UTILITY EASEMENT
- RIGHT OF WAY
- SIGHT VISIBILITY ZONE
- TOP OF CURB
- TOP OF FOOTING
- TOP OF RETAINING WALL
- TOP OF FLOOD WALL
- TRANSITION
- VALLEY GUTTER
- V.C.
- VERTICAL CURVE
- UNLESS OTHERWISE NOTED
- UNIT BOUNDARY
- MATCHLINE
- AREA OF NEW AC PAVEMENT

GRADING PLAN 2

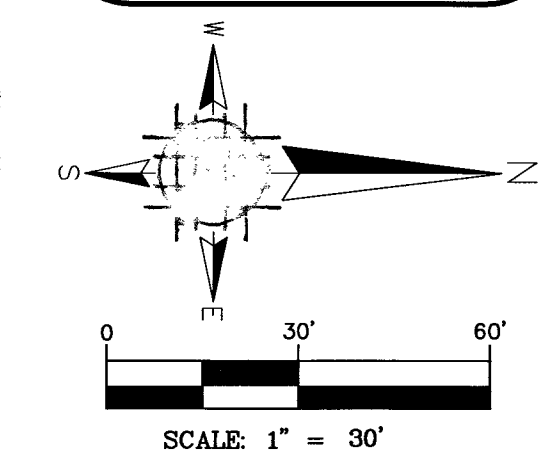
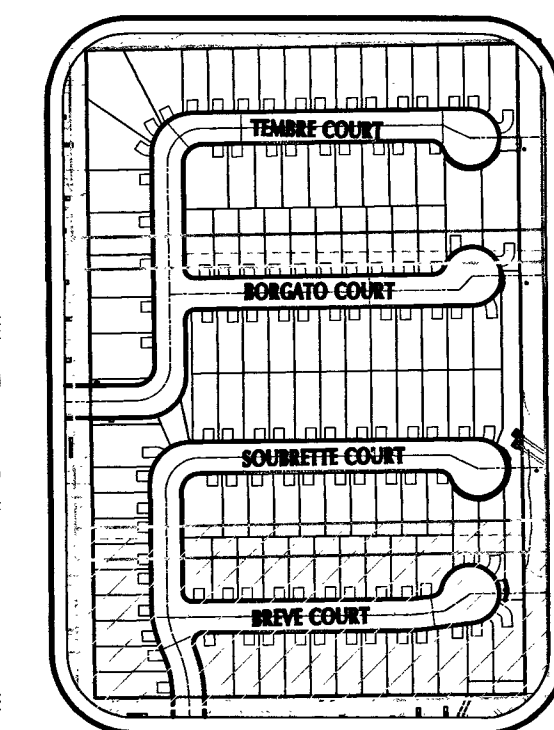
BLM 33  
BY D.R. HORTON



ADVANTAGE CIVIL DESIGN GROUP, LLP  
2920 N. GREEN VALLEY PKWY, SUITE 400  
HENDERSON, NEVADA 89014  
OFFICE: 702.452.2294  
FAX: 702.456.2294  
Email: info@advantagecivil-nv.com  
CONSULTING  
CIVIL ENGINEERING

| NO. | DATE     | DESCRIPTION       |
|-----|----------|-------------------|
| 1   | 12/20/18 | ISSUED FOR PERMIT |
| 2   |          |                   |
| 3   |          |                   |
| 4   |          |                   |
| 5   |          |                   |
| 6   |          |                   |
| 7   |          |                   |
| 8   |          |                   |
| 9   |          |                   |
| 10  |          |                   |

JOB NUMBER: 02-043  
DRAWN BY: CW  
DESIGNED BY: CW  
CHECKED BY: BGD  
DATE: 12/20/18  
GP2 6 24  
PROJ#: 135931A QS: 13-26-SE

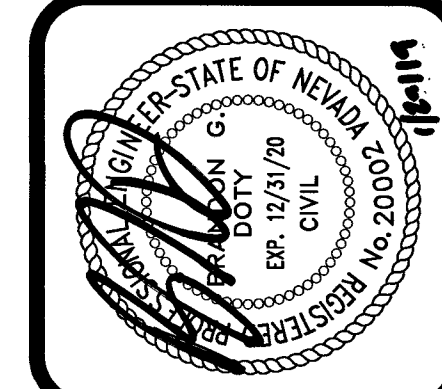


|  |                        |
|--|------------------------|
|  | EXISTING PAVEMENT      |
|  | BLOCK WALL             |
|  | FLOW RATE/DIRECTION    |
|  | PROPERTY LINE          |
|  | SCARP (2:1 U.O.N)      |
|  | RETAINING WALL         |
|  | PROPOSED CONTOUR       |
|  | EX. GRIND CONTOUR      |
|  | V-DITCH/SWALE          |
|  | EXISTING GRADE         |
|  | FUTURE GRADE           |
|  | AC                     |
|  | BC                     |
|  | BCR                    |
|  | BVC                    |
|  | BL                     |
|  | CL                     |
|  | C.E.                   |
|  | C&G                    |
|  | EP                     |
|  | EVC                    |
|  | EX                     |
|  | FF                     |
|  | FG                     |
|  | FL                     |
|  | GB                     |
|  | LSA                    |
|  | MG                     |
|  | M.U.E                  |
|  | N.U.E                  |
|  | PAD                    |
|  | PP                     |
|  | P.S.                   |
|  | PL                     |
|  | P.U.E                  |
|  | R/W                    |
|  | SVZ                    |
|  | TC                     |
|  | TF                     |
|  | TRW                    |
|  | TFW                    |
|  | TRANS                  |
|  | VG                     |
|  | V.C.                   |
|  | U.O.N                  |
|  | UNLESS OTHERWISE NOTED |
|  | UNIT BOUNDARY          |
|  | MATCHLINE              |

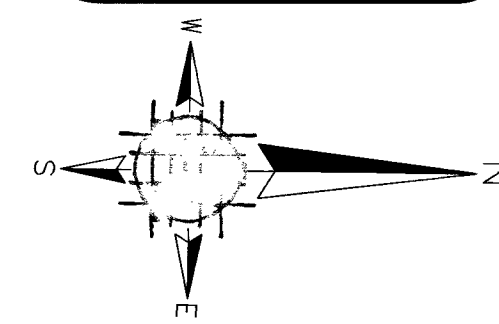
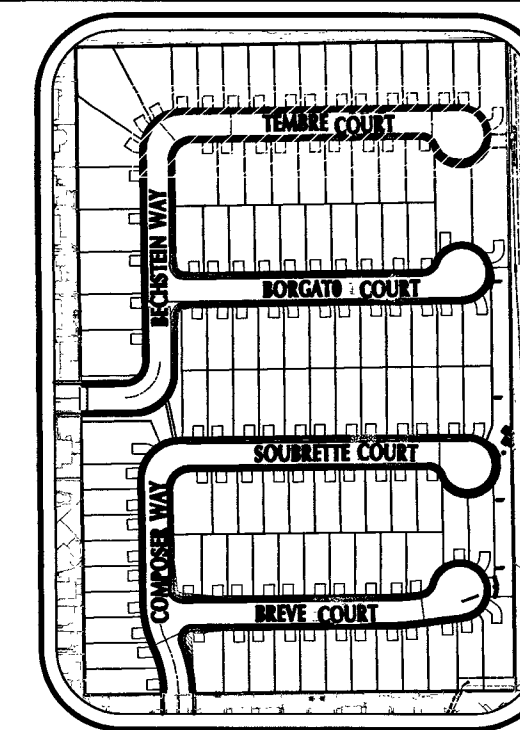
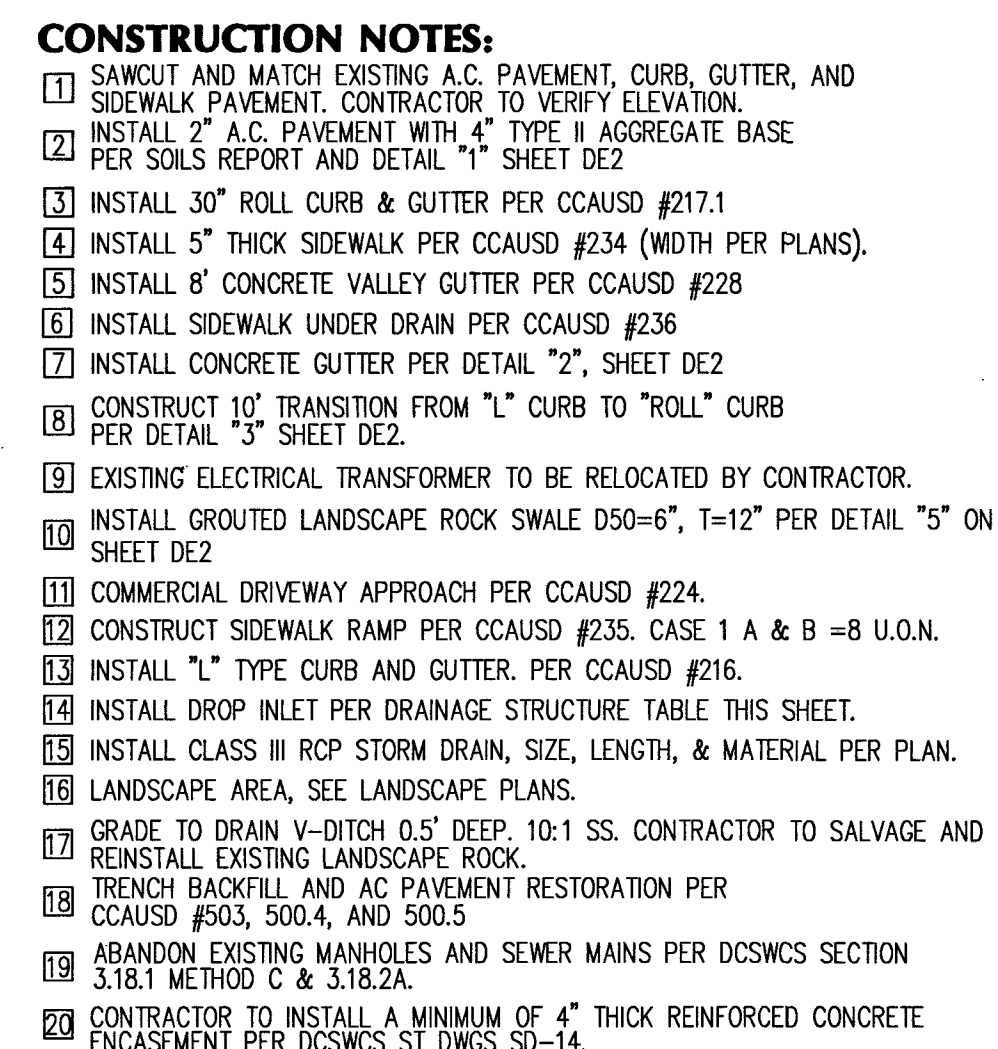
L18-02380 107V5099

**BLM 33**  
**BY D.R. HORTON**

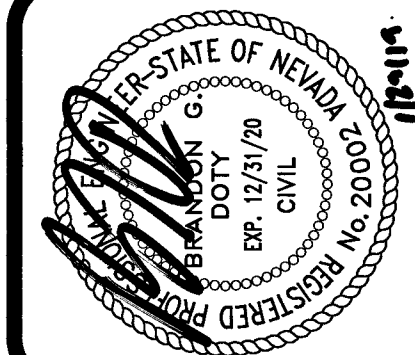
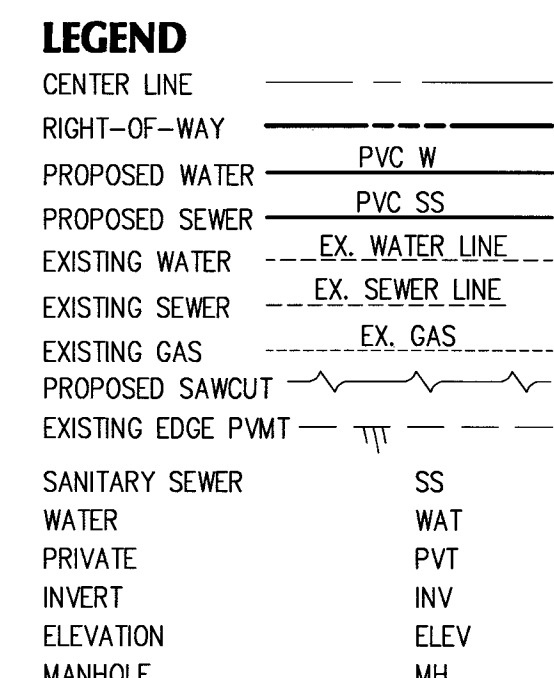
**ADVANTAGE CIVIL DESIGN GROUP, LLP**  
29720 N. GREEN VALLEY PKWY, BLDG. 4 STE. # 4122  
HENRIKSON, NEVADA 89014  
Office: 702.452.2294  
Fax: 702.456.2294  
Email: MAIL@ADVANTAGECIVIL-LLP.COM  
CONSULTING  
P. ADVISING



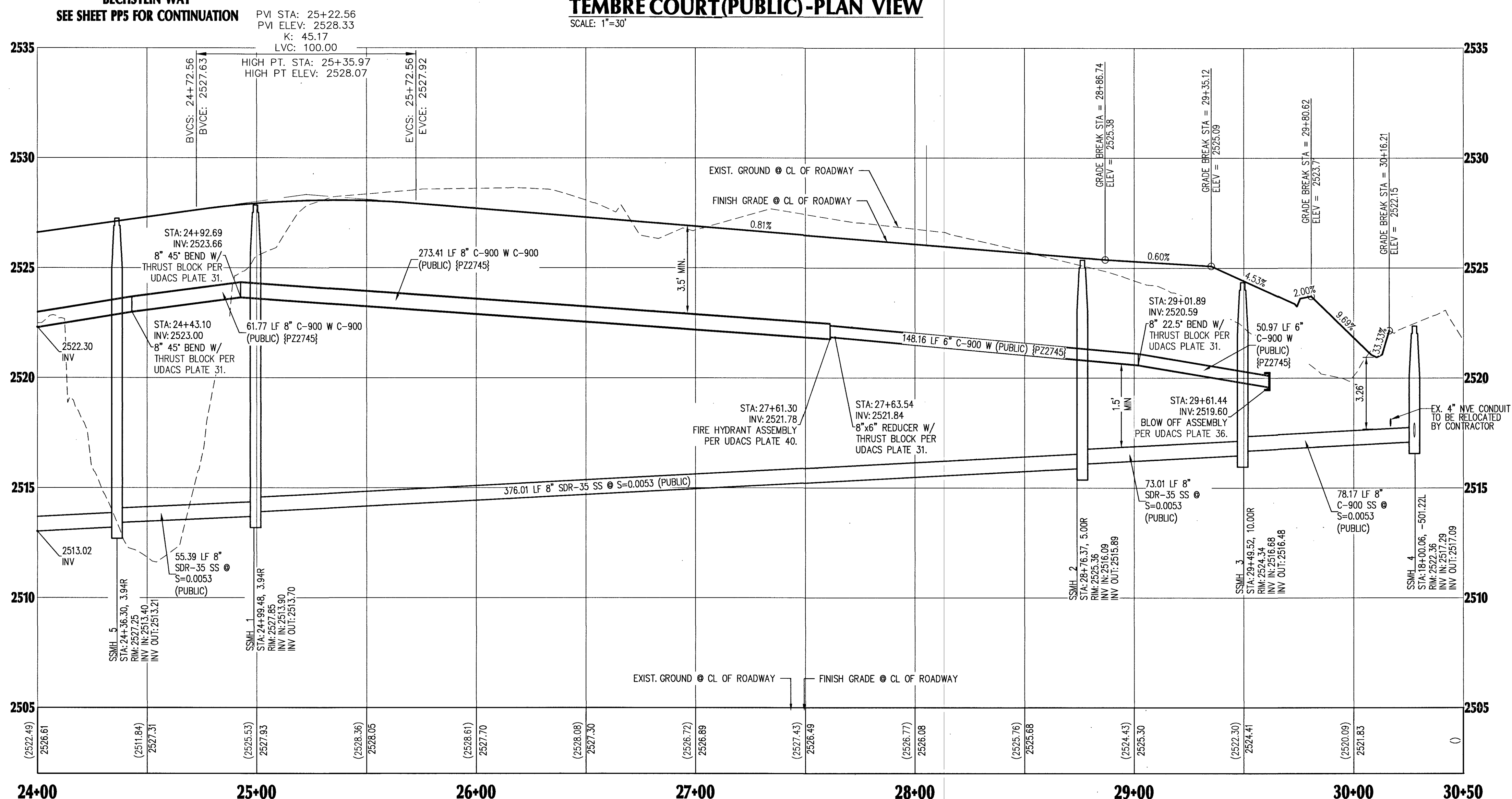
PROJ.#:135931A QS:138-28-SE



**NOTE:**  
SEE SHEET PP8 FOR LINE AND CURVE TABLES



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

[illegible]

# TEMBRE COURT (PUBLIC)-PROFILE VIEW

**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:**  
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.

## 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 2.07.01.0)
3. GATE VALVES SHALL NOT BE LOCATED IN STREET CUTOFFS, VALLEY CUTTERS, 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 2.01.01.E OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND SEWER 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 CUT 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 CUT DEFLECTION PER UDACS 2.07.01 AND 2.07.03.
10. INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15.

## 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. CONSTRUCTION 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 Doon  
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES  
PROJECT NO. 135931 DATE: 02-06-19

L18-02380 107V5099

cchaffin PLOT DATE: 01-29-19 PLOT TIME: 11:37:12 DWG PATH: N:\Horton\043 BLM 33\dwg\lmp\02-043-PNP.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.

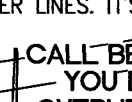
Call  
**811**

OR

**-800-227-2600**

VOID HITTING OVERHEAD  
POWER LINES. IT'S COSTLY.

**CALL BEFORE  
YOU DO  
OVERHEAD**



1-702-227-2929

# BASIS OF BEARING

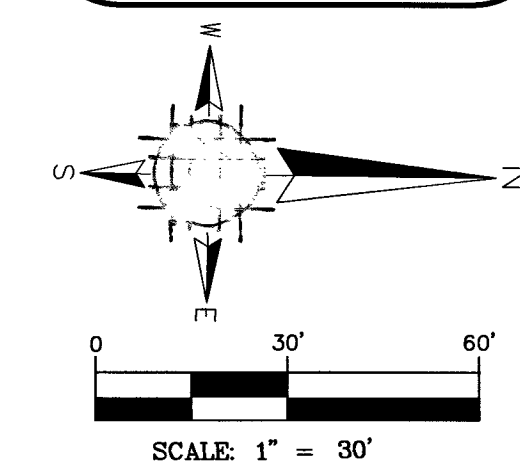
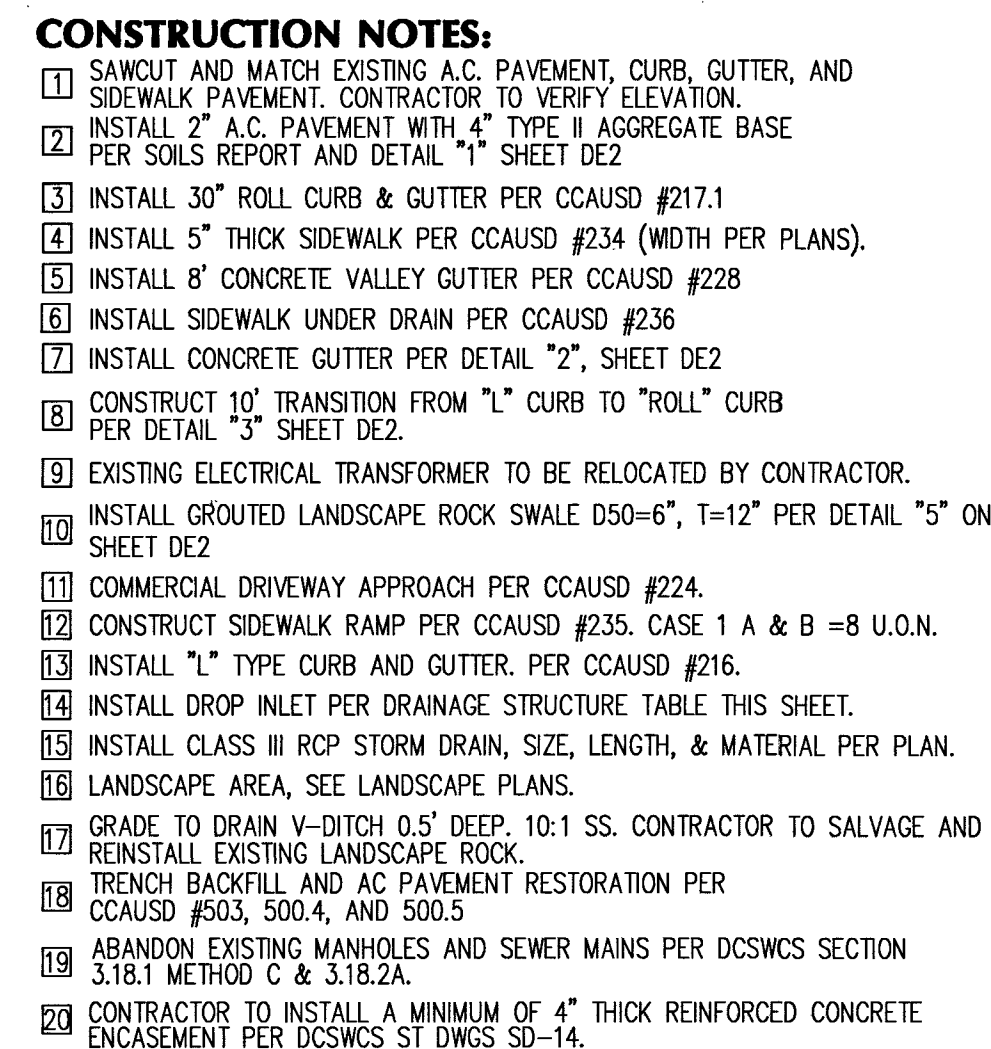
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, IS BEING CONSIDERED TO BE CONCURRENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

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

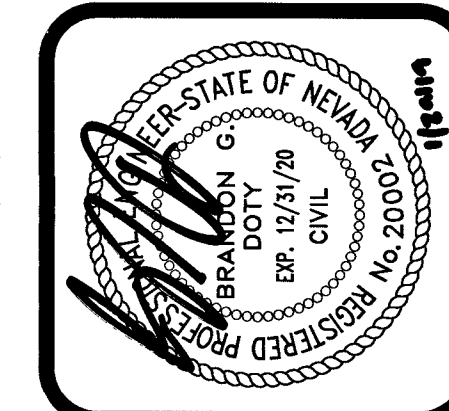
ZONE: LAS VEGAS ZONE  
STANDARD PARALLEL, AND GRID ORIGIN: 36°15'00" N  
CENTRAL MERIDIAN: 115°00' W  
FALSE NORTING: 200,000 METERS  
FALSE EASTING: 100,000 METERS  
STANDARD PARALLEL SCALE: 0.999999  
LINEAR UNIT: US SURVEY FOOT (SFT)

**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)

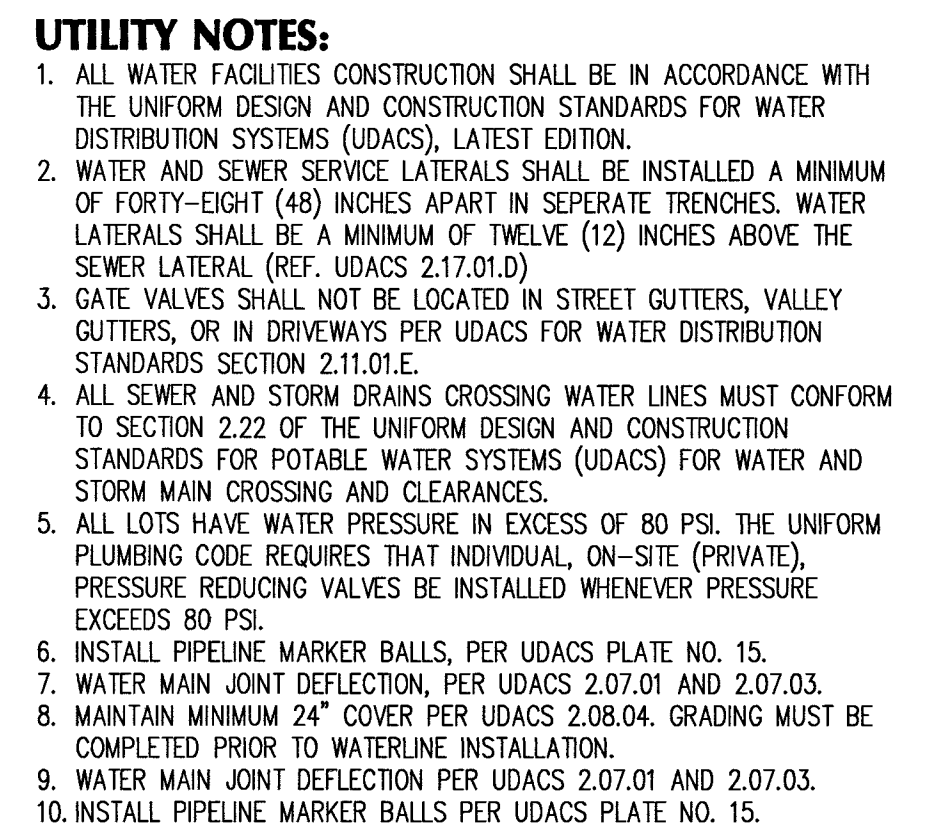
PROJ#:135931A QS:138-28-SE



**ADVANTAGE CIVIL DESIGN GROUP, LLP**  
2920 N. GREEN VALLEY PKWY, BLDG. 4 5TH FL. 422  
HENDERSON, NEVADA 89014  
Office: 702.492.2294  
Fax: 702.496.2254  
Email: [MAIL@ADVANTAGECIVIL-NC.COM](mailto:MAIL@ADVANTAGECIVIL-NC.COM)  
P.L.L.P.



**BLM 33**  
**BY D.R. HORTON**

[illegible]

## 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, EXCEPT EXPOSED MAXIMUM SLOPE OF 12.5%.

**APPROVED FOR CONSTRUCTION**

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

L18-02380 107V5099

|     |         |
|-----|---------|
| PP2 | 9<br>24 |
|-----|---------|

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**

 Call  
before you  
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OR  
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AVOID HITTING OVERHEAD  
POWER LINES. IT'S COSTLY.

CALL BEFORE  
YOU DO  
OVERHEAD



1-702-227-2921

## 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.

DATE: (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 "OLVDO 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)

**SIGHT VISIBILITY NOTE:**

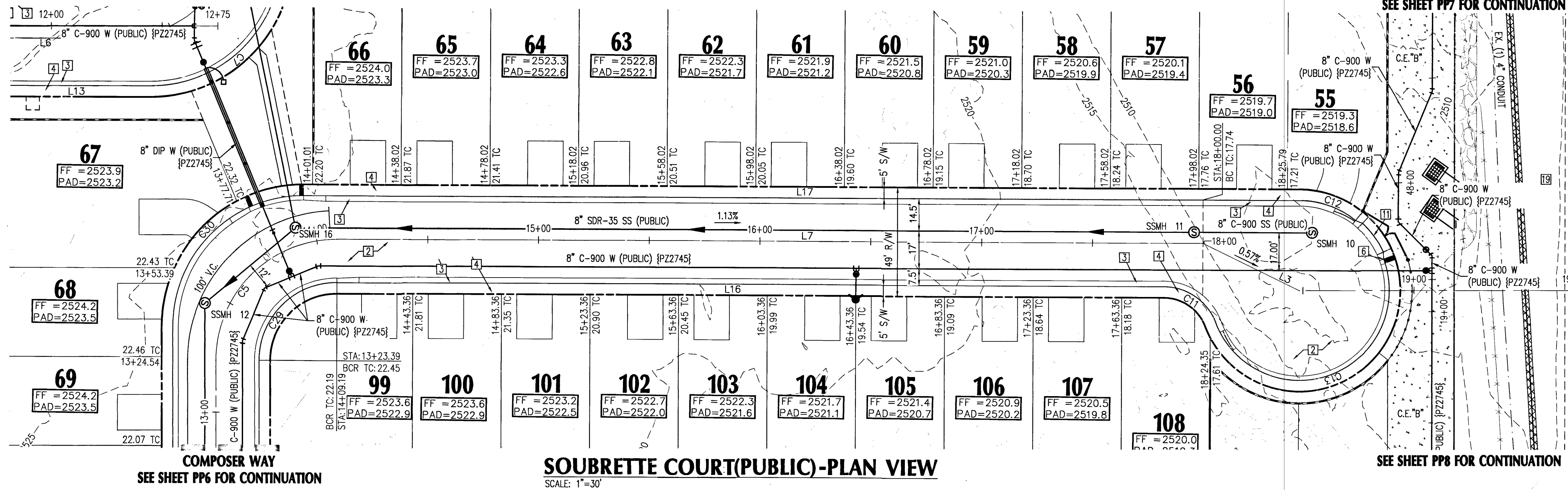
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**NOTE:**

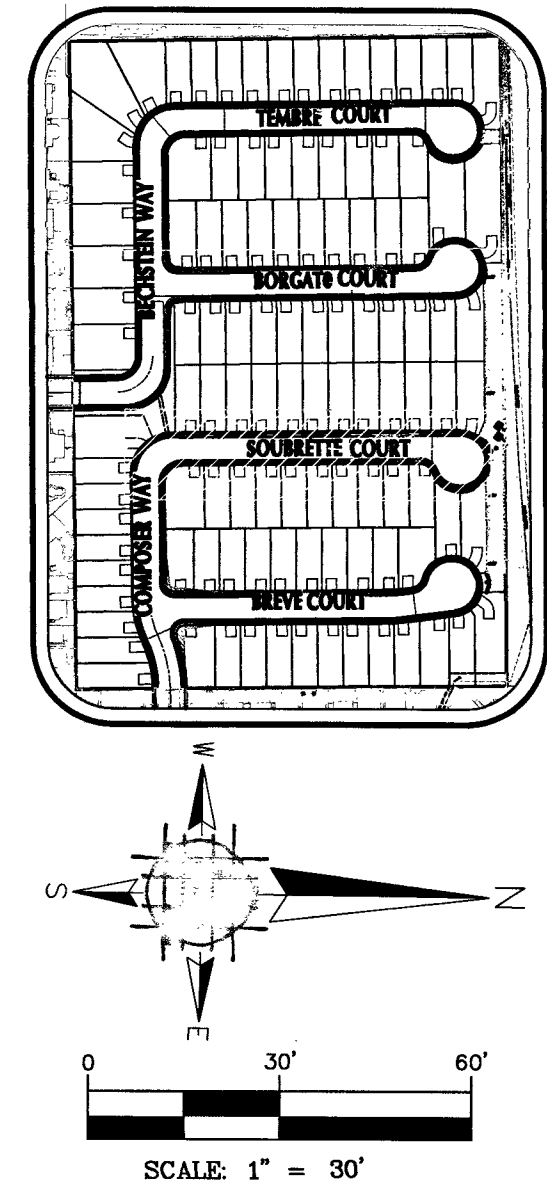
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**NOTE:**

LOTS 22-23 REQUIRE C-900 SANITARY SEWER LATERAL



- 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 "1" CURB TO "ROLL" CURB PER DETAIL "3" SHEET DE2.
  - EXISTING ELECTRICAL TRANSFORMER TO BE RELOCATED BY CONTRACTOR.
  - INSTALL CROUTED 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 SAWT      | ---            |
| EXISTING EDGE PAVT | ---            |
| 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 2.17.01.0)
- 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%

**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.

#### 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.

#### 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

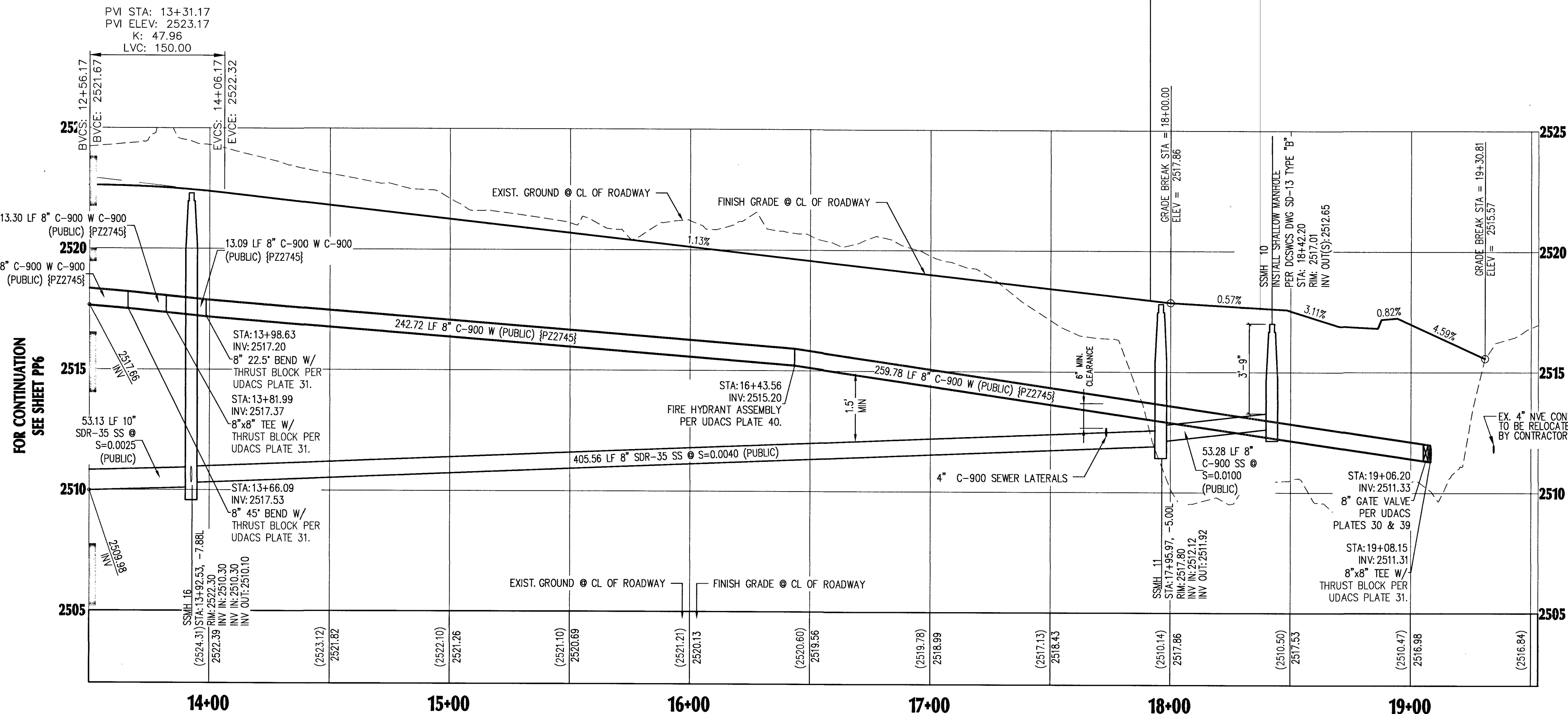
CITY OF LAS VEGAS VERTICAL CONTROL POINT "OLVQO 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

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)

#### SOUBRETTE COURT(PUBLIC)-PROFILE VIEW

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



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#### PLAN & PROFILE SOUBRETTE COURT

BLM 33

BY D.R. HORTON

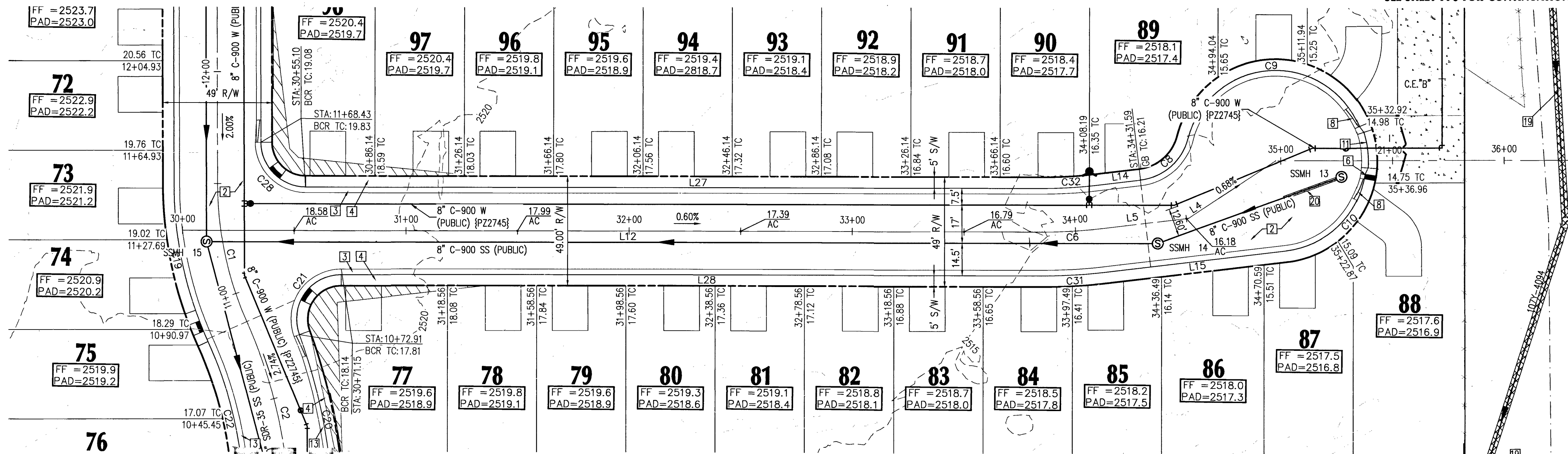
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JOB NUMBER: 02-043  
DRAWN BY: CW  
DESIGNED BY: CW  
CHECKED BY: BGD  
DATE: 12/2018

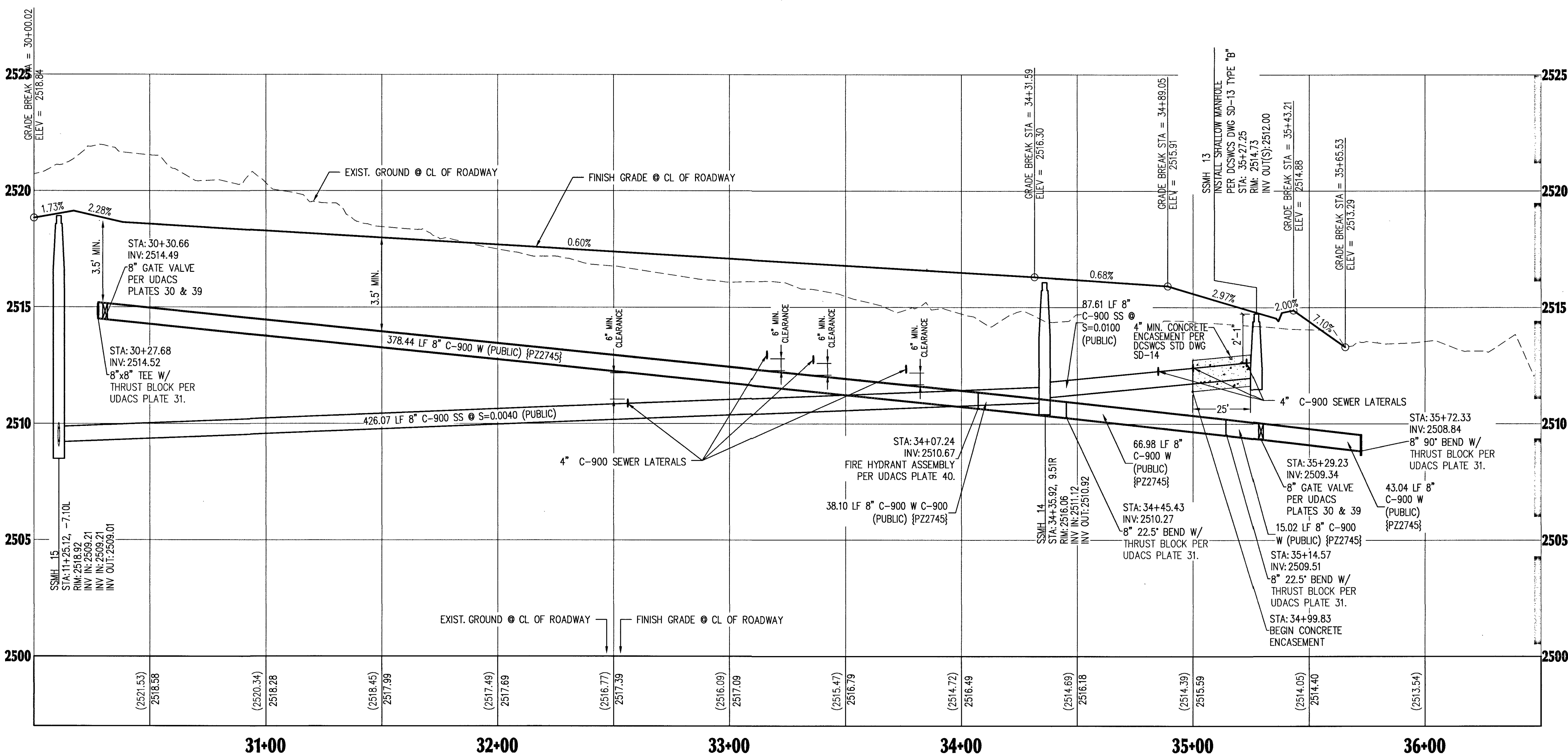
PP3 10 24

L18-02380 107V5099

PROJ# 135931A Q5: 13-28-SE



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



**BREVE 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 EASTING: 200,000 METERS  
FALSE NORTHING: 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)

**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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**NOTE:**

LOTS 89-93 AND LOTS 109-110 REQUIRE C-900 SANITARY SEWER LATERAL.

**CONSTRUCTION NOTES:**

- SAW CUT AND MATCH EXISTING A.C. 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 THIS SHEET.
- 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.
- 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 STD 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 PAVT | ---            |
| 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.
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**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%.

**APPROVED FOR CONSTRUCTION**

*Samuel Bern*  
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES  
PROJECT NO. 135931 DATE: 02-06-14

L18-02380

107V5099

**PLAN & PROFILE BREVE COURT**

BLM 33

BY D.R. HORTON

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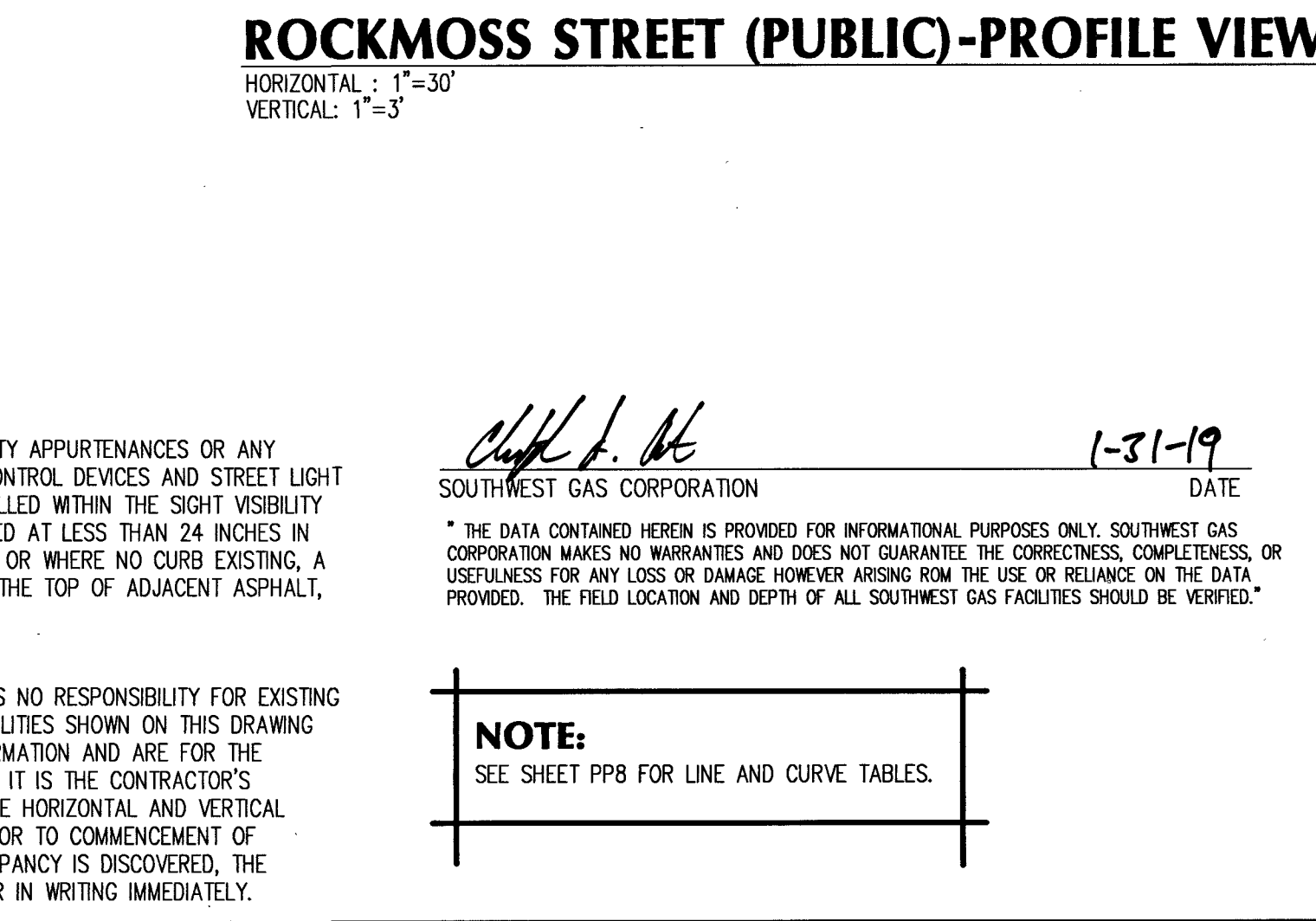
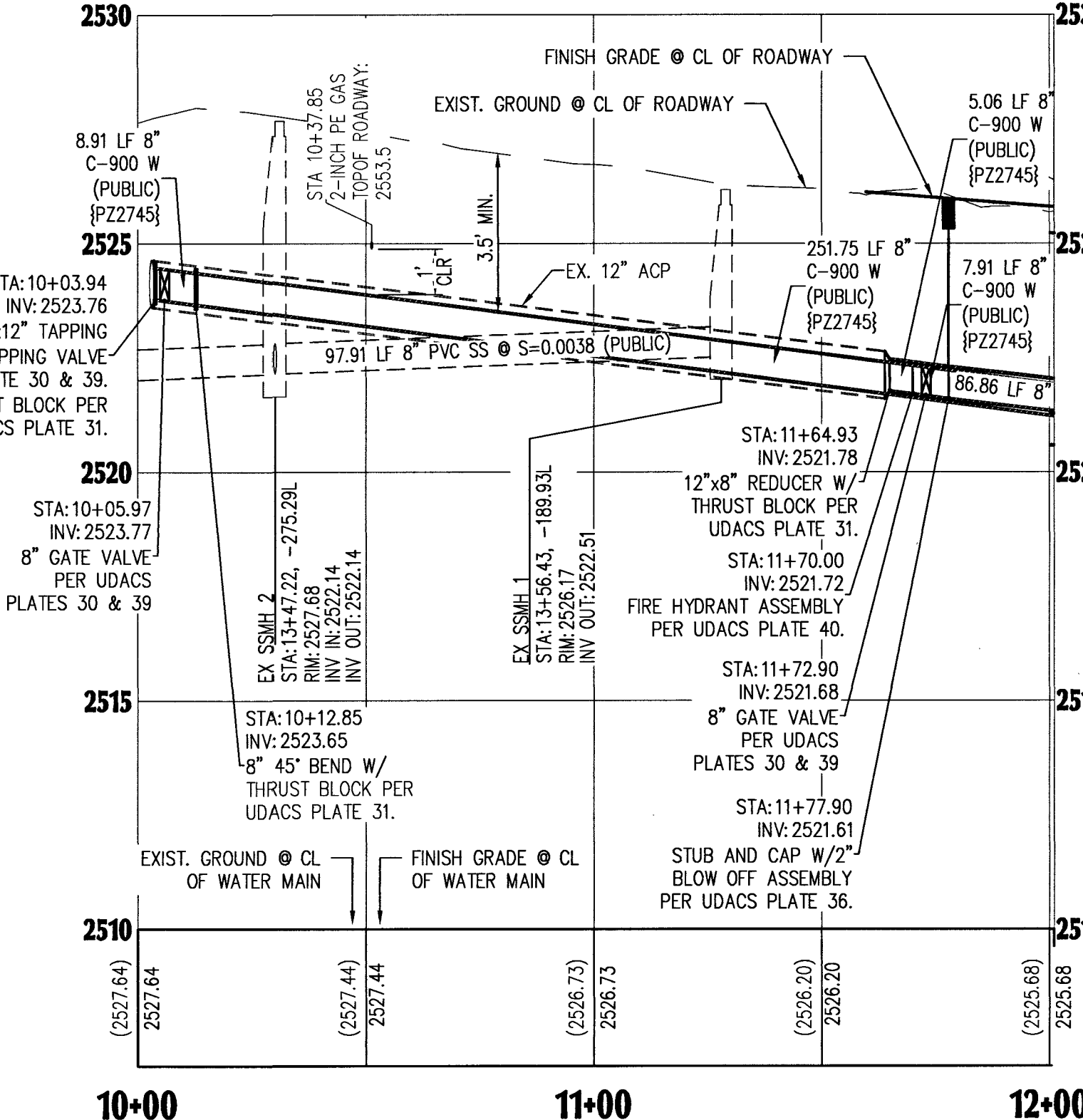
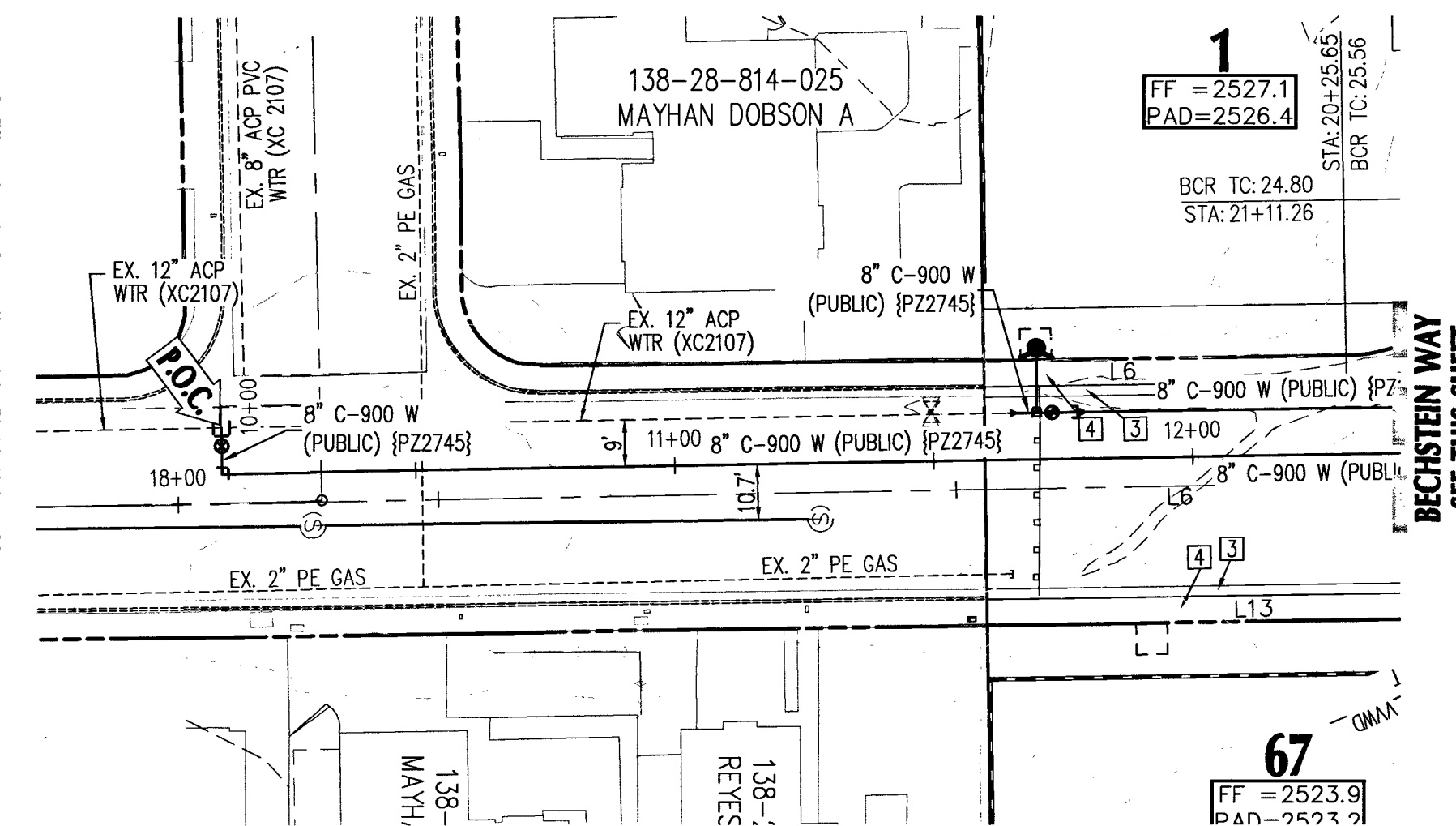
JOB NUMBER: 02-043  
DRAWN BY: CW  
DESIGNED BY: CW  
CHECKED BY: BGD  
DATE: 12/2018

PP4

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PROJ# 135931A QS:13628-SE



### 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 18" (483) INCHES ABOVE ALL EXISTING 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. THE SEWER AND STORM MAINS 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 PRESSURES EXCEEDS 80 PSI.
6. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
7. WATER MAIN GUT 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 GUT 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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2. CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
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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 SLOPES OCCUR.
7. ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
8. DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%

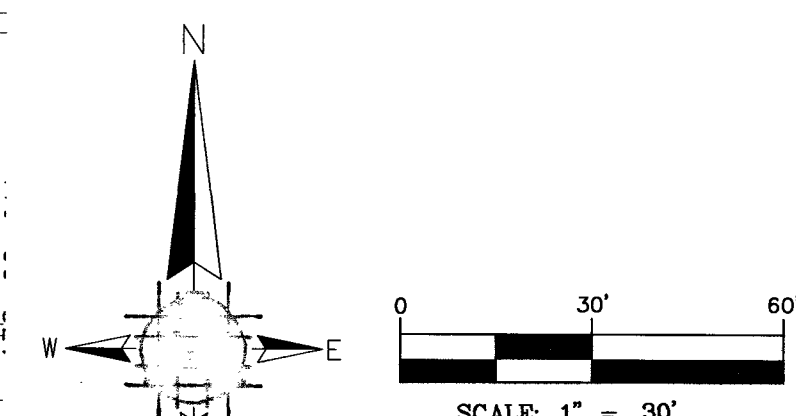
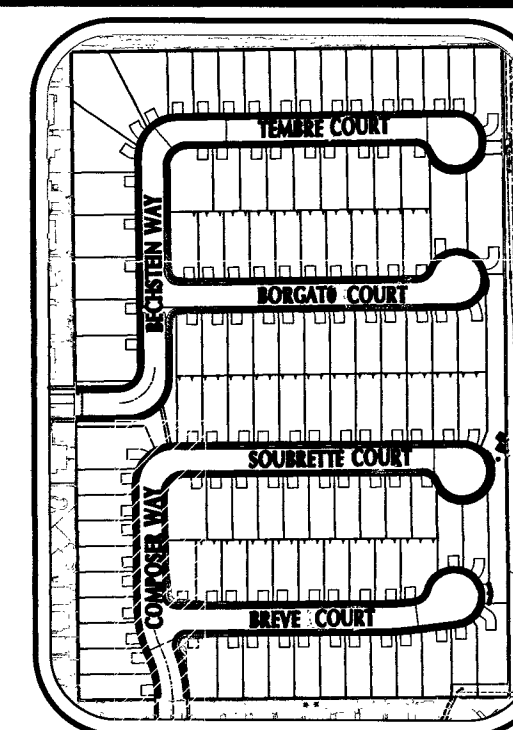
APPROVED FOR CONSTRUCTION

*Ernie Dean*

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES  
PROJECT NO. 135931 DATE: 02-06-19

L18-02380 107V5099

[illegible]



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

**NOTE:**  
SEE SHEET PP8 FOR LINE AND CURVE TABLES.



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

**SIGHT VISIBILITY NOTE:**

**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.

Chf. Ac  
SOUTHWEST GAS CORPORATION

\* THE DATA CONTAINED HEREIN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SOUTHWEST GAS CORPORATION MAKES NO WARRANTIES AND DOES NOT GUARANTEE THE CORRECTNESS, COMPLETENESS, OR USEFULNESS FOR ANY LOSS OR DAMAGE HOWEVER ARISING FROM THE USE OR RELIANCE ON THE DATA PROVIDED. THE FIELD LOCATION AND DEPTH OF ALL SOUTHWEST GAS FACILITIES SHOULD BE VERIFIED.\*

- ### 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 D2
  - 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 D2
  - 8) CONSTRUCT 10' TRANSITION FROM "L" CURB TO "ROLL" CURB PER DETAIL "3" SHEET D2.
  - 9) EXISTING ELECTRICAL TRANSFORMER TO BE RELOCATED BY CONTRACTOR.
  - 10) INSTALL GROUTED LANDSCAPE ROCK SWALE D50-6", T=12" PER DETAIL "5" ON SHEET D2
  - 11) COMMERCIAL DRIVEWAY APPROACH PER CCAUSD #224.
  - 12) CONSTRUCT SIDEWALK RAMP PER CCAUSD #235. CASE 1 A & B = 0 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 II 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 18.1 HUB C & 18.2.
  - 20) CONTRACTOR TO INSTALL A MINIMUM OF 4" THICK REINFORCED CONCRETE ENCASEMENT PER DCSWCS STD. 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. GUTTER LINES 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 LINES HAVE WATER PRESSURE REQUIREMENTS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER PRESSURE EXCEEDS 80 PSI.
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  8. WATER MAIN JOINT DEFLECTION PER UDACS 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.
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  10. INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15.

## 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**

*Shirley Dean*  
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES  
PROJECT NO. 135931 DATE: 02-06-19

L18-02380 107V5099

## PLAN & PROFILE COMPOSER WAY

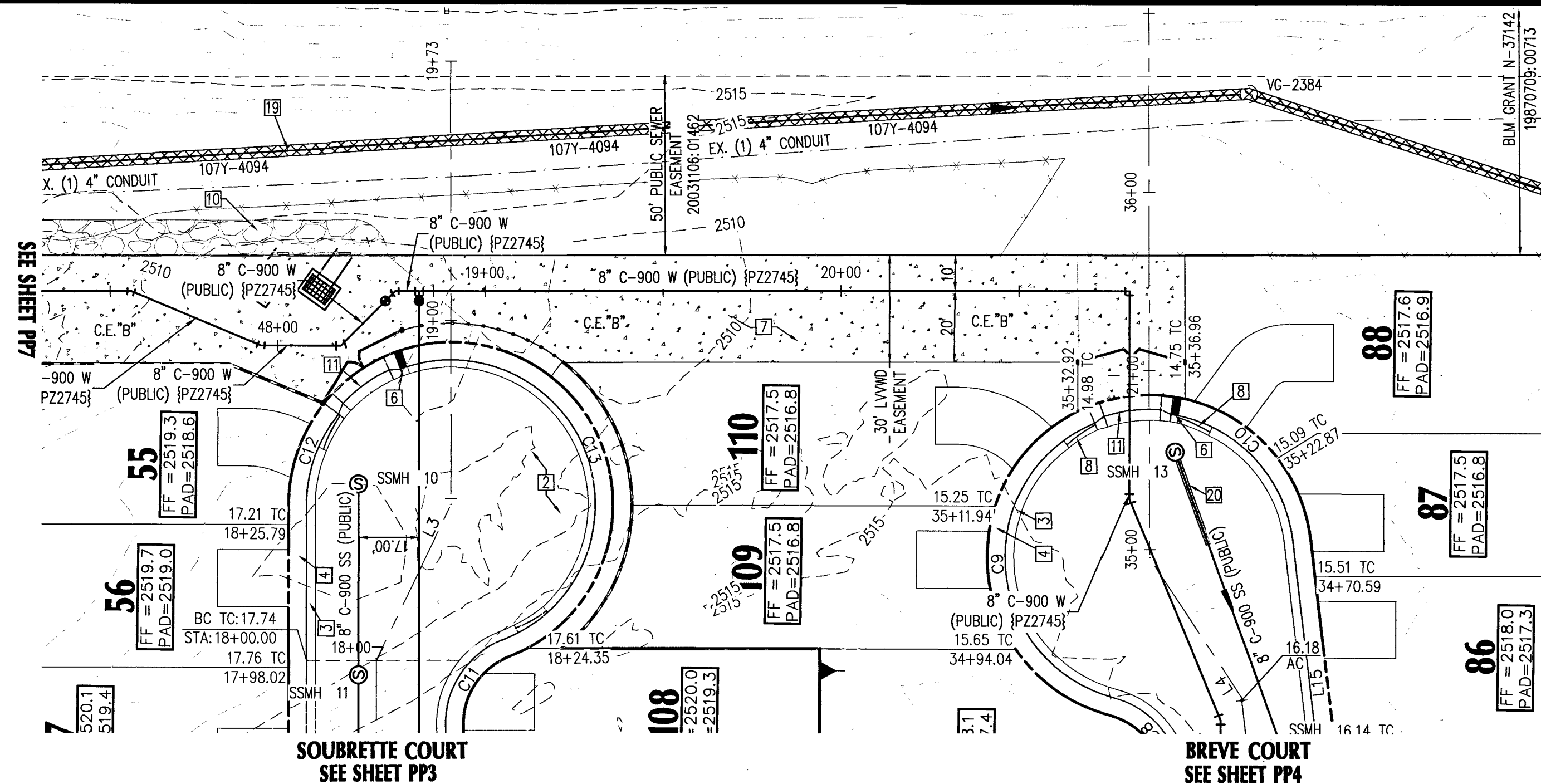
**BLM 33**

BY D.R. HORTON

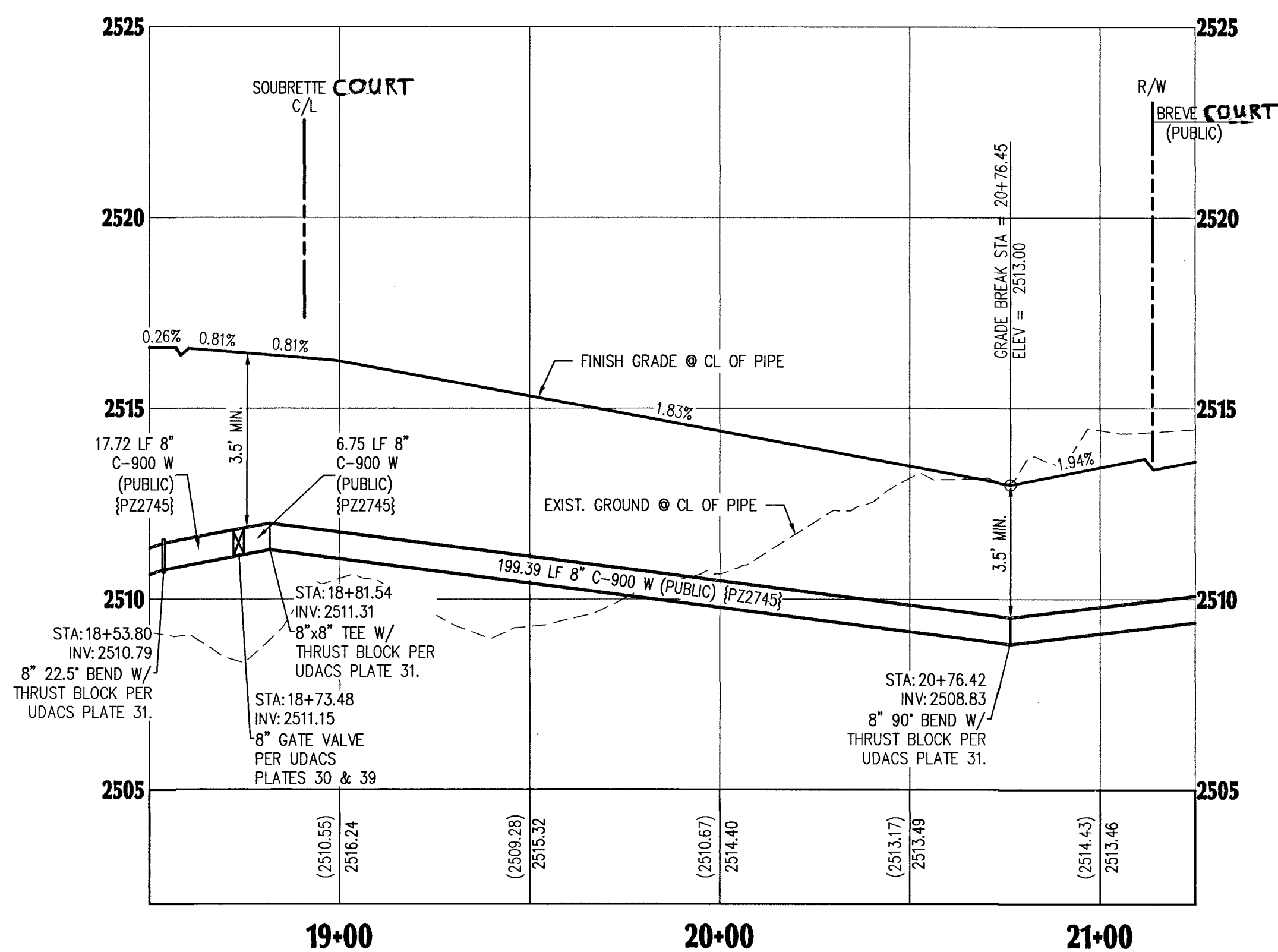
**ADVANTAGE CIVIL DESIGN GROUP, LLP**  
2920 N. GREEN VALLEY FWAY, BLDG. 4 STE. # 422  
HENDERSON, NEVADA 89014  
Other: 702.432.2234  
Fax: 702.432.2234  
Email: [MAIL@ADVANTAGECIVIL-NT.COM](mailto:MAIL@ADVANTAGECIVIL-NT.COM)  
CONSULTING  
CIVIL ENGINEERING PLANNING

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





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



**SOUBRETTE-BREVE WATER LOOP-PROFILE VIEW**  
HORIZONTAL: 1"=30'  
VERTICAL: 1"=5'

#### 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: 1.001  
LINEAR UNIT: US SURVEY FOOT (SFT)

#### BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL POINT "OLV00 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)

#### SIGHT VISIBILITY NOTE:

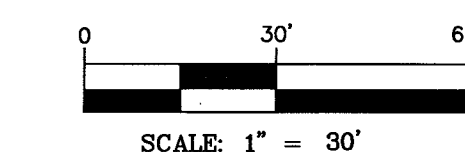
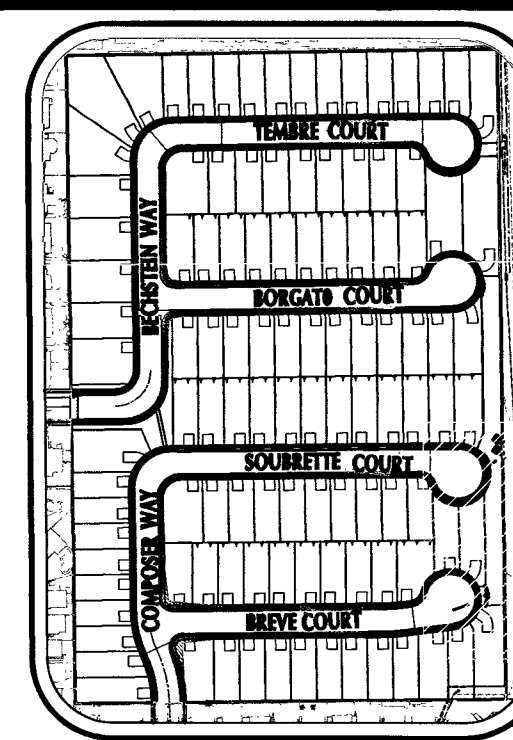
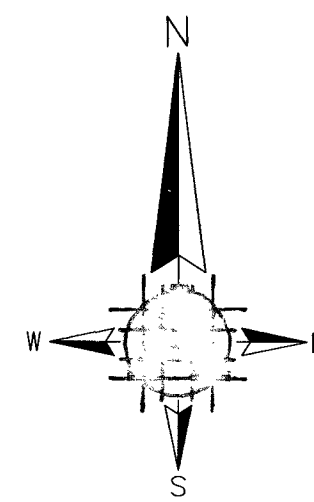
NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE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

#### NOTE:

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.

#### 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 318.1 METHOD C & 318.2A
- 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 PAVT  
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 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%

#### APPROVED FOR CONSTRUCTION

*Samuel*  
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES  
PROJECT NO. 135931 DATE: 02-06-19

### P&P SOUBRETTE-BREVE WATER LOOP

BLM 33

BY D.R. HORTON

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JOB NUMBER: 02-043

DRAWN BY: CW

DESIGNED BY: CW

CHECKED BY: BGD

DATE: 12/2018

PP8

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L18-02380 107V5099

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

casaffr PLOT DATE: 01-28-19 PLOT TIME: 11:40:08 DWG PATH: N:\Projects\043 BLDG 13\dwg\map\02-043-UNPR-02043a.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 "01V00 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

ELEVATION: 2551.98 FEET  
777.844 METERS

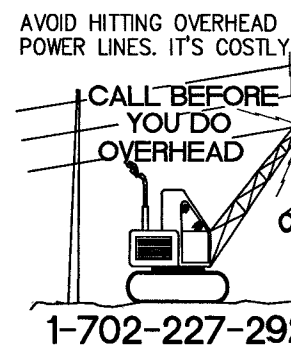
CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)  
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)



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



1-800-227-2600

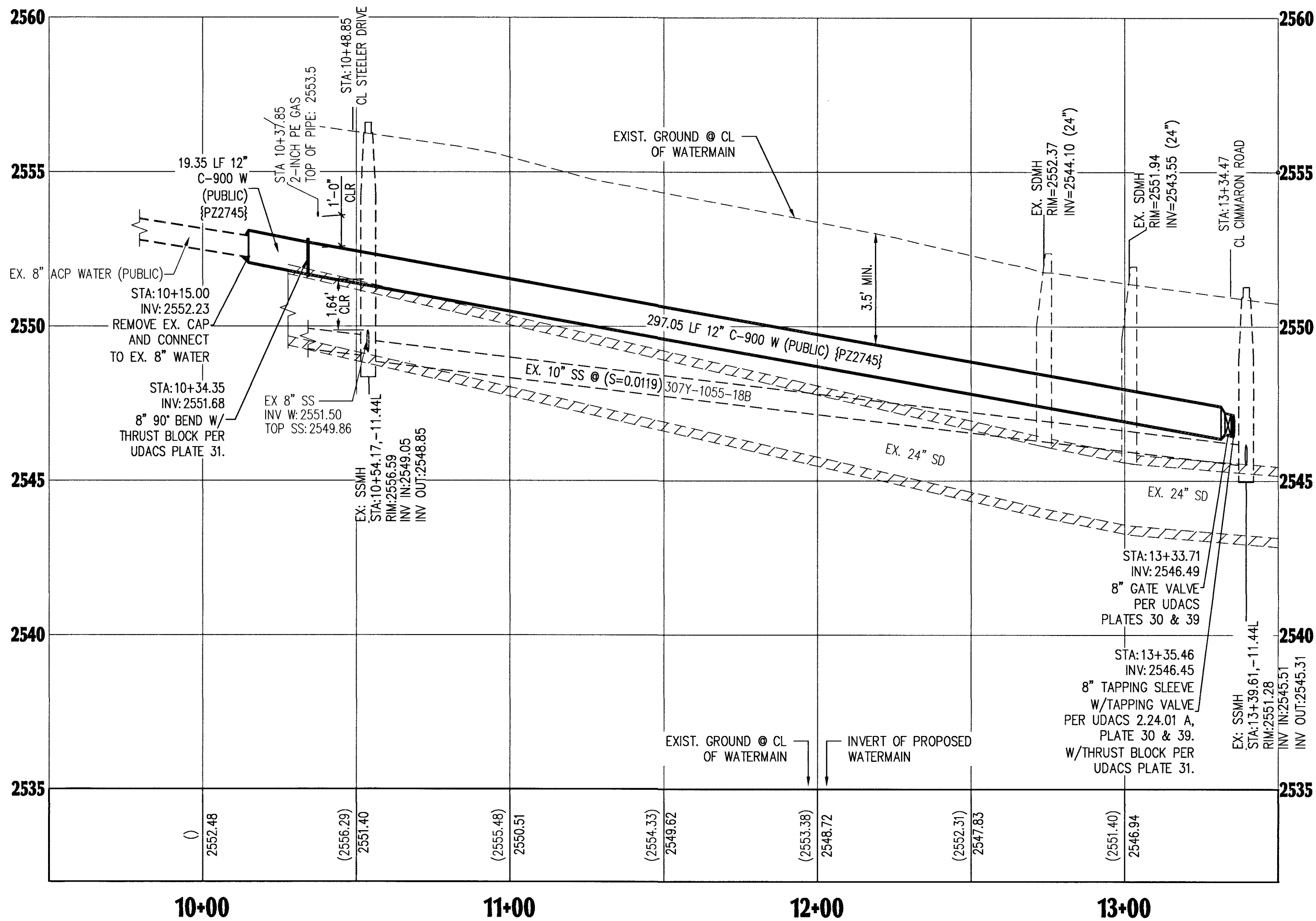


**NOTE:**

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**WESTCLIFF DRIVE (PUBLIC)-PROFILE VIEW**

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



**NOTES**

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

**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)
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- INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
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- MAINTAIN MINIMUM 24" COVER PER UDACS 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

**APPROVED FOR CONSTRUCTION**

*Samuel Dean*  
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES  
PROJECT NO. 135931 DATE: 02-06-19

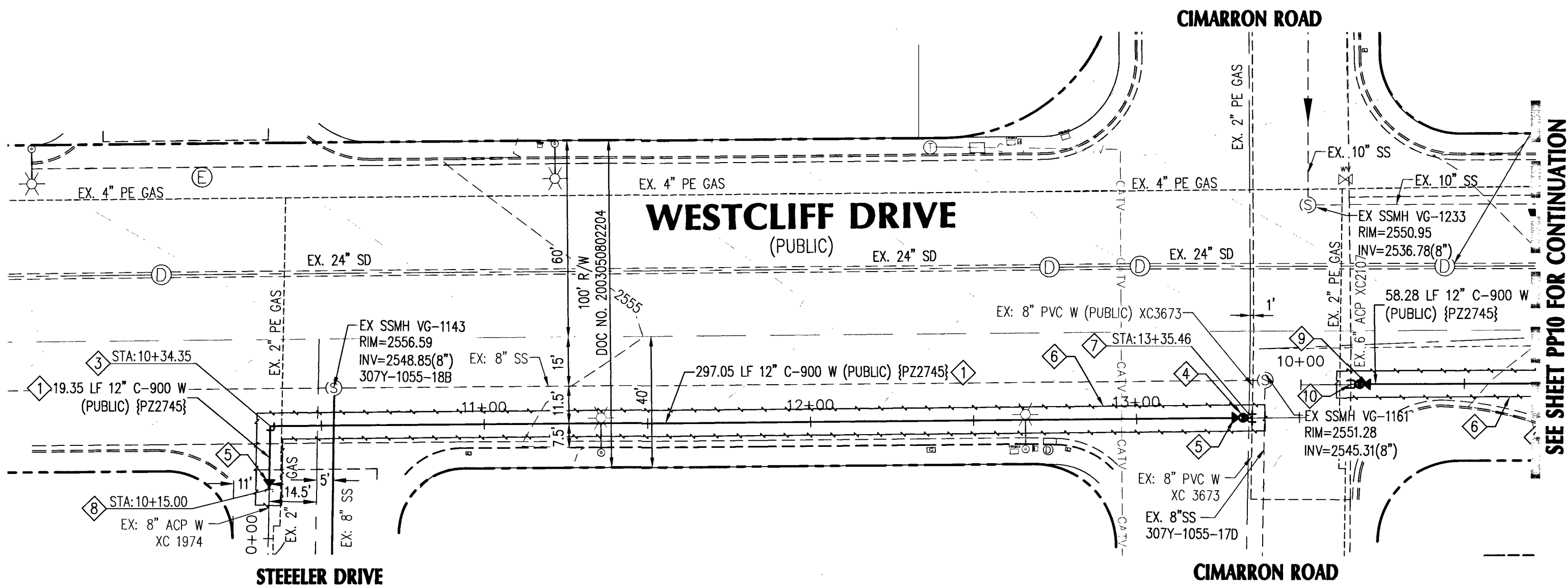
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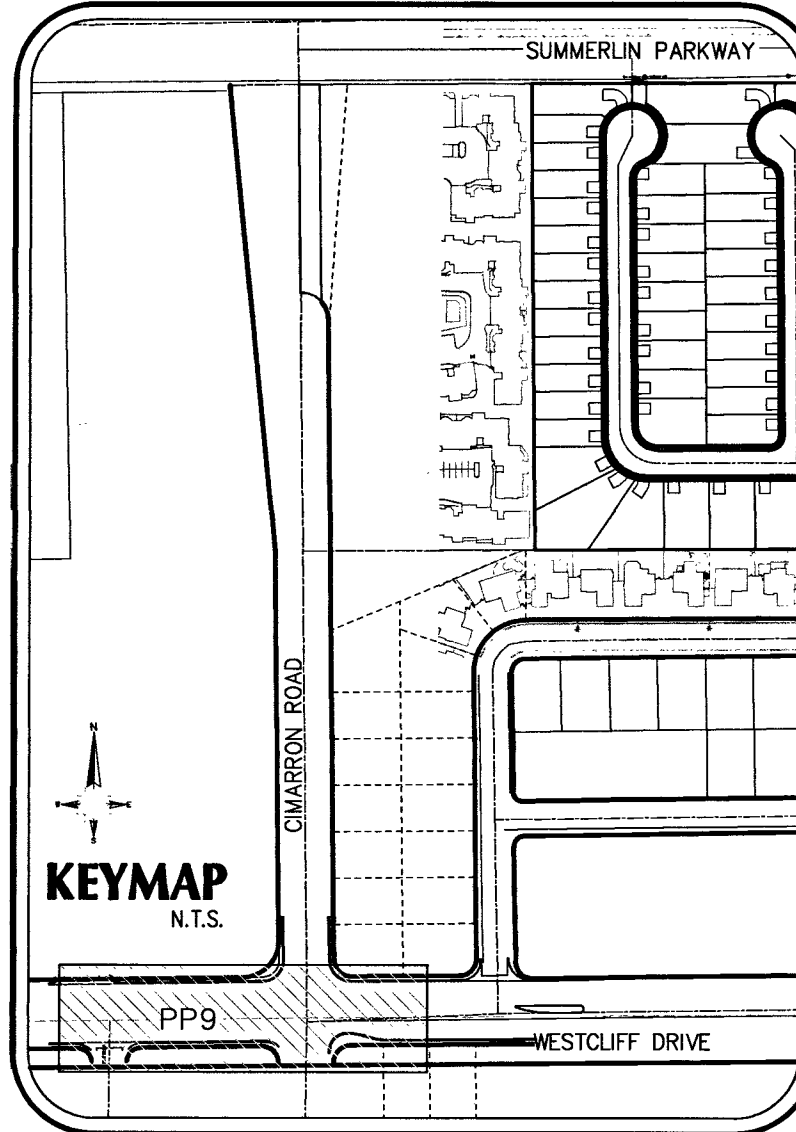
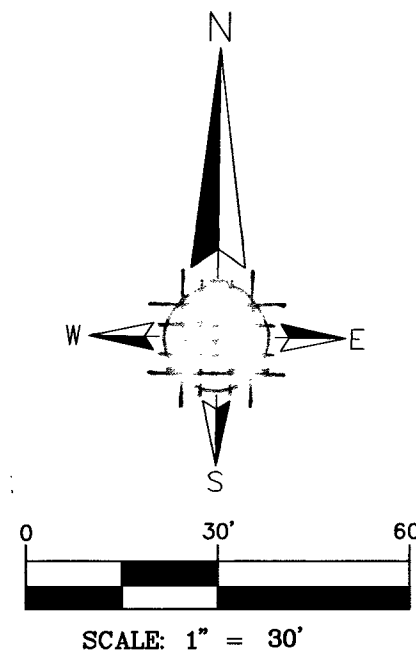
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**WESTCLIFF DRIVE (PUBLIC)-PLAN VIEW**

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**

- WATER MAIN SIZE/MATERIAL PER PLAN. TRENCH & BACKFILL PER UDACS PLATE 17.
- INSTALL 12" 45° BEND W/ THRUST BLOCK PER UDACS PLATE 31.
- INSTALL 12" 90° BEND W/ THRUST BLOCK PER UDACS PLATE 31.
- INSTALL 8" GATE VALVE PER UDACS PLATES 30 & 39.
- INSTALL 12"x8" REDUCER W/ THRUST BLOCK PER UDACS PLATE 31.
- SAWCUT REMOVE AND REPLACE WITH 4" A.C. PAVEMENT OVER 4" TYPE II OVER 9" TYPE I
- AGGREGATE BASE PER CCASD #803.
- INSTALL 8"x8" TAPPING SLEEVE W/TAPPING VALVE PER UDACS 2.24.01 A, PLATE 30 & 39.
- REMOVE CAP AND BLOWOFF PER UDACS PLATE #36 AND CONNECT TO EXISTING MAIN.
- INSTALL 12"x6" REDUCER W/ THRUST BLOCK PER UDACS PLATE 31.
- INSTALL 6"x6" TAPPING SLEEVE W/TAPPING VALVE PER UDACS 2.24.01 A, PLATE 30 & 39.

PROP. 12" WATERLINE - WESTCLIFF DR.

BLM 33

BY D.R. HORTON

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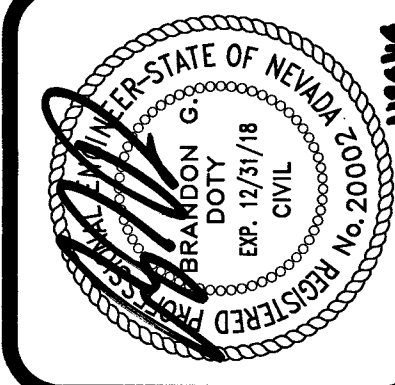
JOB NUMBER: 02-043  
DRAWN BY: CW  
DESIGNED BY: CW  
CHECKED BY: BGD  
DATE: 12/2018

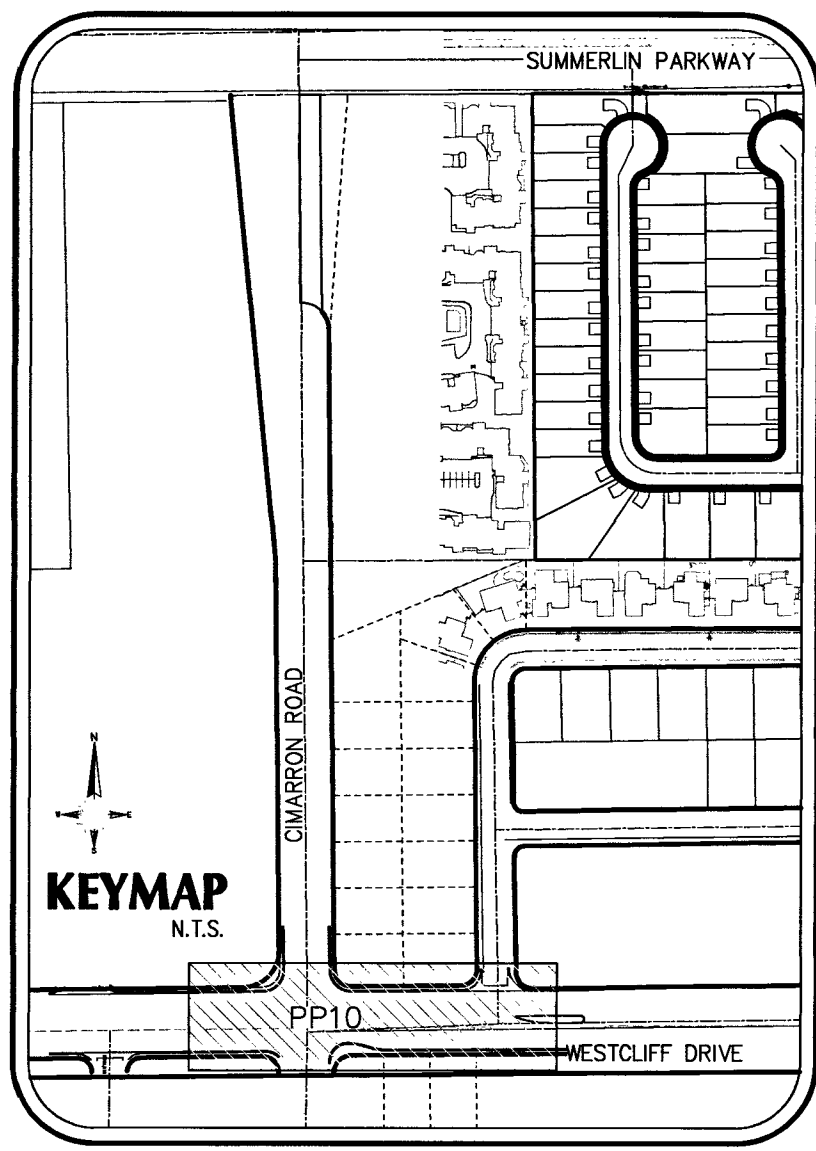
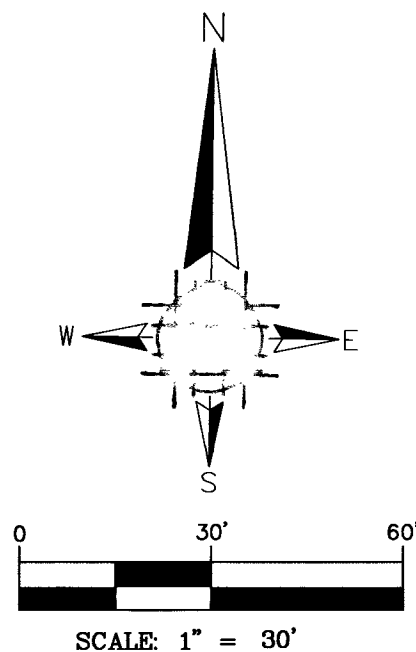
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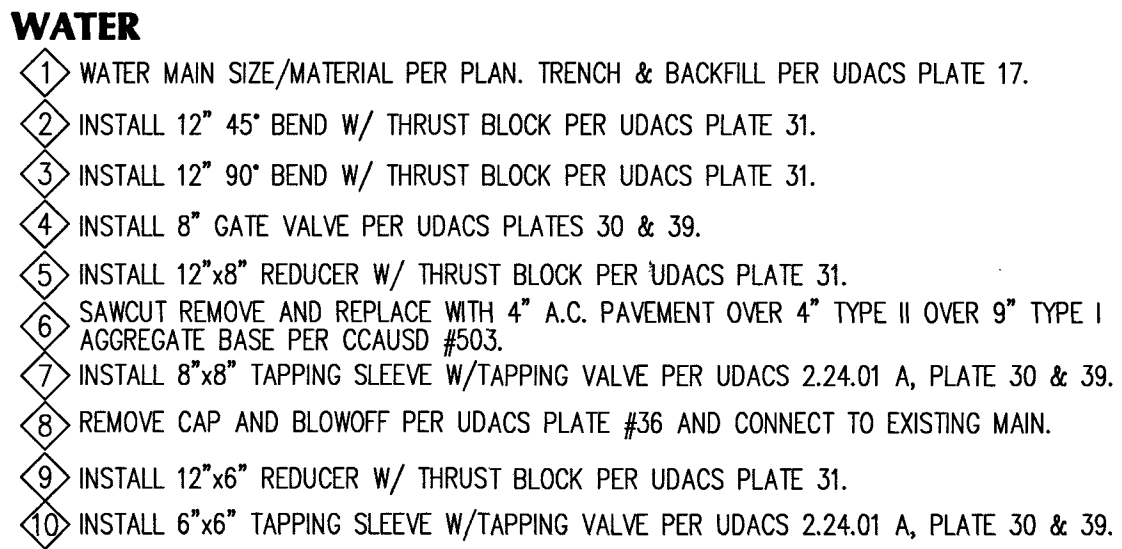
24

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: [info@advantagecivil-nv.com](mailto:info@advantagecivil-nv.com)  
CONSULTING  
CIVIL ENGINEERING  
PLANNING





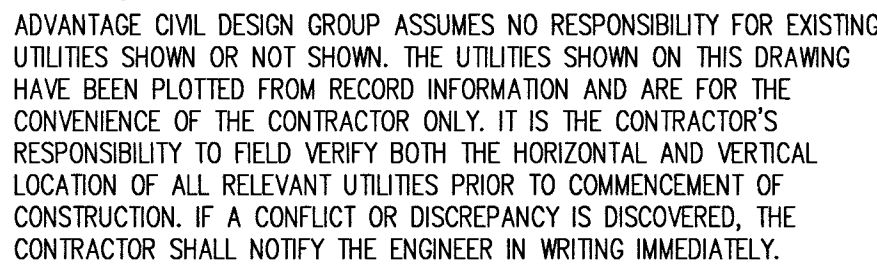
|                         |                     |
|-------------------------|---------------------|
| <b>LEGEND</b>           |                     |
| CENTER LINE             | ----                |
| PROPOSED EASEMENT       | -----               |
| RIGHT-OF-WAY            | =====               |
| 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 PYMT      | -----               |
| SANITARY SEWER          | SS                  |
| WATER                   | WAT                 |
| PRIVATE                 | PVT                 |
| INVERT                  | INV                 |
| ELEVATION               | ELEV                |
| MANHOLE                 | MH                  |
| BACKWATER VALVE         | <b>BWV</b>          |
| PRESSURE REDUCING VALVE | <b>PRV</b>          |



**ADVANTAGE CIVIL DESIGN GROUP, LLP**  
2920 N. GREEN VALLEY PKWY., BLDG. 4 STE # 422  
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Office: 702.492.2254  
Fax: 702.496.2254  
Email: [MAIL@ADVANTAGECIVIL-INV.COM](mailto:MAIL@ADVANTAGECIVIL-INV.COM)

CIVIL ENGINEERING CONSULTING PLANNING



1. PROTECT IN PLACE AND ADJUST LVVWD EXISTING. FACILITIES TO FINISH GRADE PER UDACS. ALL LVVWD 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.

L18-02380 107V5099

24

PRR ID: A135931A OS: 138-28-SF



Call before you Dig  
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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.

### 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.

### 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:

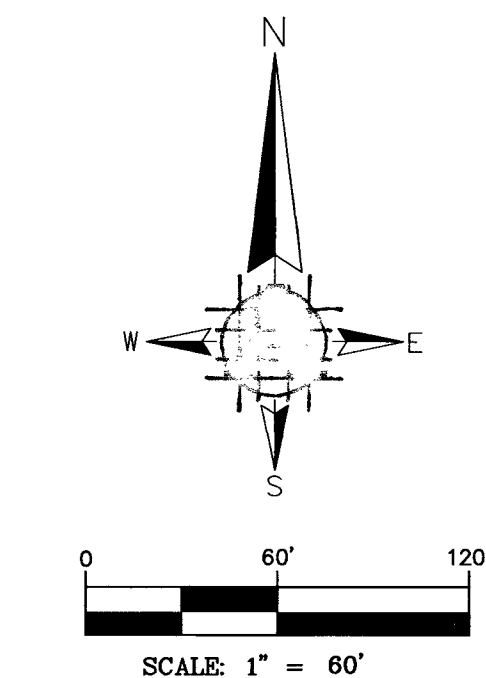
THIS PLAN IS FOR REFERENCE ONLY AND IS FOR CONVENIENCE OF THE CITY ENTITY REVIEWERS AND CONTRACTOR. PLEASE REFER TO THE UTILITY PLANS FOR ACTUAL CONSTRUCTION SPECIFICATIONS.

### 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

SOUTHWEST GAS CORPORATION

1-31-19

DATE

\* THE DATA CONTAINED HEREIN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SOUTHWEST GAS CORPORATION MAKES NO WARRANTIES AND DOES NOT GUARANTEE THE CORRECTNESS, COMPLETENESS, OR USEFULNESS FOR ANY LOSS OR DAMAGE HOWEVER ARISING FROM THE USE OR RELIANCE ON THE DATA PROVIDED. THE FIELD LOCATION AND DEPTH OF ALL SOUTHWEST GAS FACILITIES SHOULD BE VERIFIED.

CITY OF LAS VEGAS FIRE DEPARTMENT

1-31-19

DATE

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

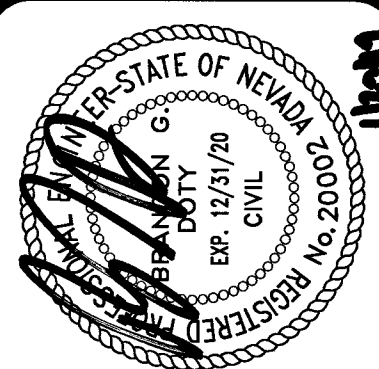
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER  
PROJECT NO. 135831 DATE 02-01-19  
LVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL  
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 26 GPM

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-NEV.COM  
CONSULTING  
CIVIL ENGINEERING  
PLANNING

| NO. | DATE     | DESCRIPTION                                       |
|-----|----------|---------------------------------------------------|
| 1   | 01-29-18 | ISSUED FOR PERMIT                                 |
| 2   | 02-01-19 | REVISED PER CITY OF LAS VEGAS COMMENTS            |
| 3   | 02-01-19 | REVISED PER SOUTHWEST GAS CORPORATION COMMENTS    |
| 4   | 02-01-19 | REVISED PER FIRE DEPARTMENT COMMENTS              |
| 5   | 02-01-19 | REVISED PER ADVANTAGE CIVIL DESIGN GROUP COMMENTS |

JOB NUMBER: 02-043

DRAWN BY: CW

CHECKED BY: BGD

DATE: 12/2018

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 "OLVOD 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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Underground  
1-702-432-5300



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.

TYPICAL WATER AND SEWER SERVICE LOCATIONS

UNLESS OTHERWISE SHOWN ON PLAN

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 D12.
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 SD7.
2. SEWER MAIN SIZE/MATERIAL PER PLAN. TRENCH & BACKFILL PER DCSWCS SD-17.
3. INSTALL 48" Ø 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.
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.c
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

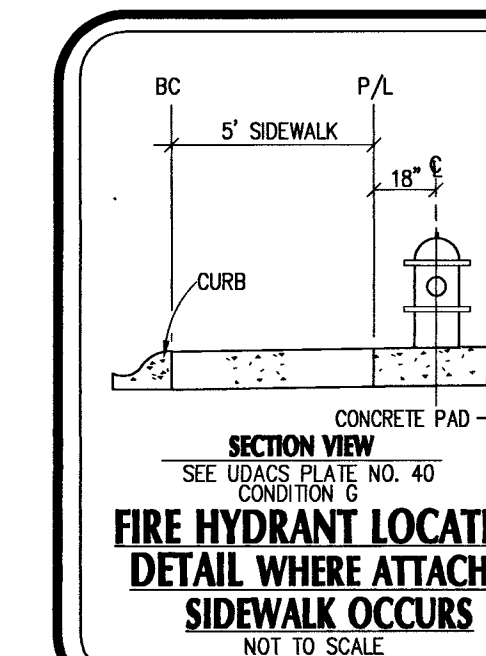
ALL ABOVE GROUND OBSTRUCTION INCLUDING BUT NOT LIMITED TO, LANDSCAPE BOULDER, FENCES/WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN THE ESMT.

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. 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.



APPROVALS

CITY OF LAS VEGAS FIRE DEPARTMENT  
1-349 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

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES  
PROJECT NO. 135931 DATE: 02-06-19  
LLVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL  
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 26 GPM  
L18-02380 107V5099

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: N/A SF

BUILDING HEIGHT: <35' FEET

NUMBER OF STORIES: 2

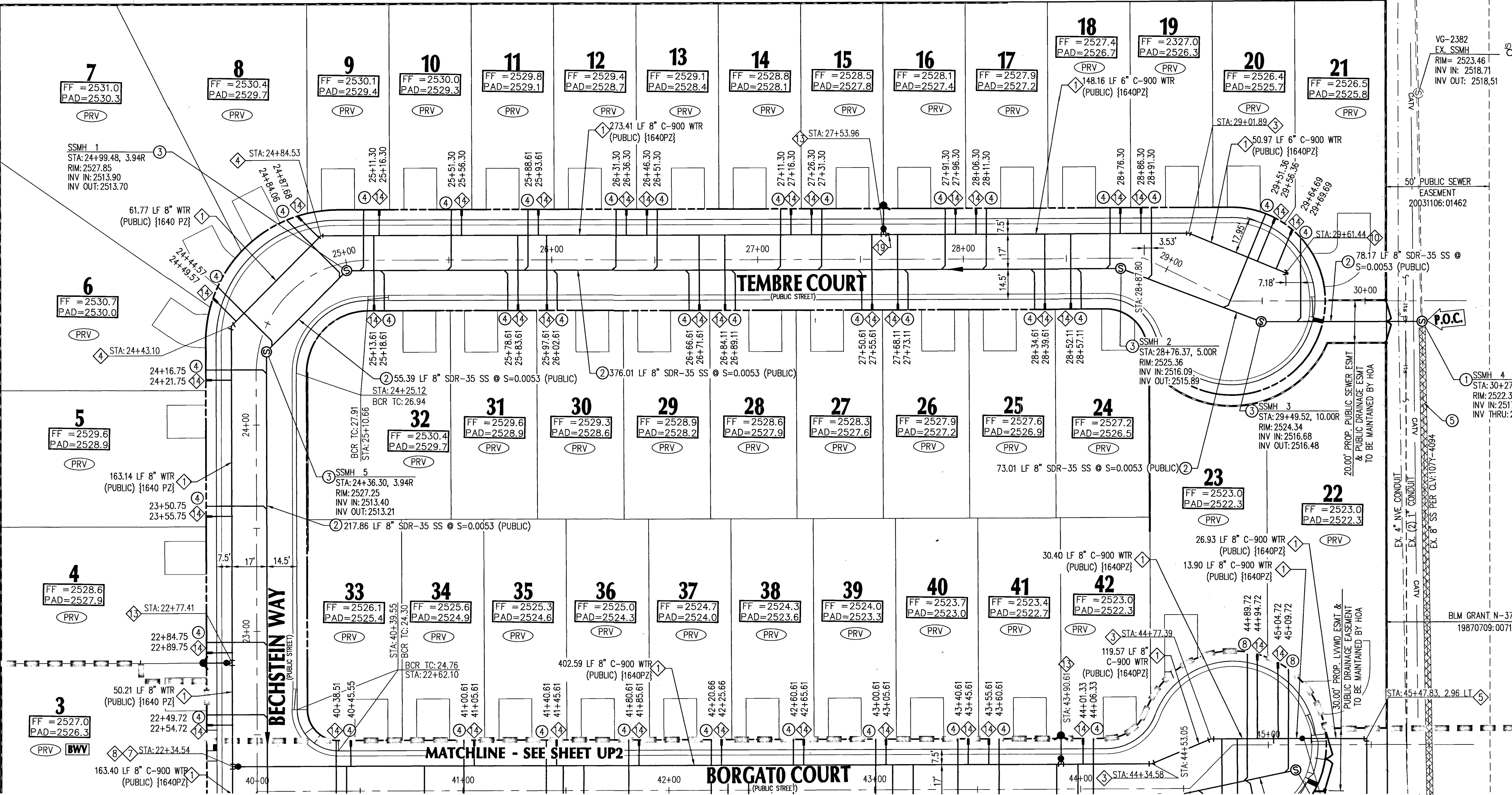
TYPE OF CONSTRUCTION: V-B

OCCUPANCY: R-3

FULL AUTOMATIC FIRE SPRINKLER SYSTEM: YES

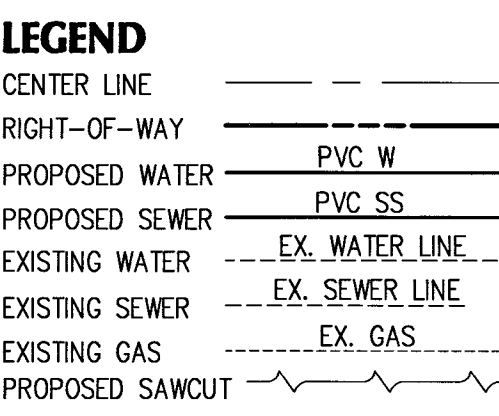
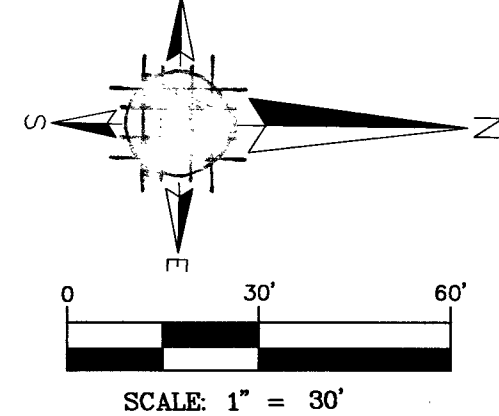
107V5099

LA MANCHA OESTE  
(CLV#107Y-4094)

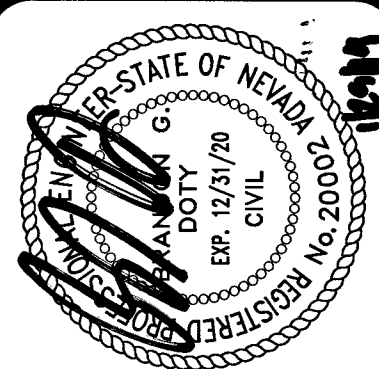


LEGEND

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



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CONSULTING



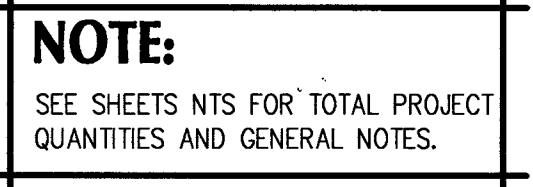
UTILITY PLAN 1  
BLM 33  
BY D.R. HORTON

| NO. | DATE     | DESCRIPTION             |
|-----|----------|-------------------------|
| 1   | 02-06-19 | ISSUED FOR PERMIT       |
| 2   | 02-06-19 | ISSUED FOR CONSTRUCTION |

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

UP1 19 24

PROJ#135931A QS:136-28-SE



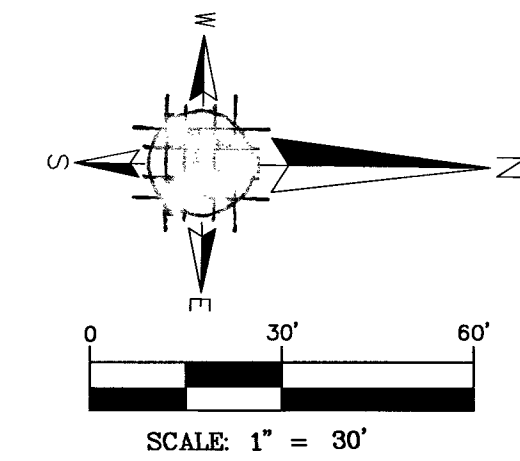
**UTILITY PLAN 2**

**BLM 33**

**BY D.R. HORTON**

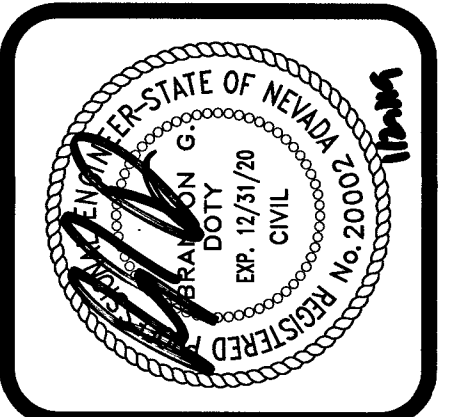
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| UP2 | 20<br>24 |
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**ADVANTAGE CIVIL DESIGN GROUP, LLP**  
2920 N. GREEN VALLEY PKWY, BLDG. 4 5/F. # 422  
PENSACOLA, NEVADA 89004  
Office 702.452.2294  
Fax 702.456.2224  
Email: [info@advantagedesign-llp.com](mailto:info@advantagedesign-llp.com)

CIVIL ENGINEERING CONSULTING PLANNING



**STREETLIGHT & SIGNAGE PLAN 1**

**BLM 33**

**BY D.R. HORTON**

[illegible]



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SYSTEM OF TRANSPORTATION

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OR

1-800-227-2600

MAJOR STREET (FOR A AND B ONLY)  
MINOR STREET (FOR C AND D ONLY)

SIGHT VISIBILITY LINE A

ROW LINE

SIGHT VISIBILITY ZONE

P.T. D

MINOR STREET (FOR A AND B ONLY)  
MAJOR STREET (FOR C AND D ONLY)

THE AREA WITHIN THE LIMITS OF THE ARC AND THE CHORD AT THE CURB RETURN (OFFSET S FROM CHORD OF CHORD SHALL BE KNOWN)

THE SIGHT VISIBILITY ZONE AT EACH CORNER OF EVERY INTERSECTION, EXCEPT FOR BEAR/ INTERSECTIONS OF GREATER

SIGHT VISIBILITY LINE

TYPICAL INTERSECTION CORNER

|   | A  | B  | C  | D  |
|---|----|----|----|----|
| ① | 92 | 12 | 12 | 79 |
| ② | 79 | 12 | 12 | 92 |
| ③ | 92 | 12 | 12 | 79 |
| ④ | 79 | 12 | 12 | 92 |

SIGHT VISIBILITY RESTRICTION ZONE  
CCLASD DWG. NO. 212

## LEGEND

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><br><br><br><br><br><br><br><br><br><br><br><br><br> | <p>PROP. STREET LIGHT CONDUIT</p> <p>PRIVATE STREET LIGHT.</p> <p>R.O.W</p> <p>PROPOSED 100W HPS SINGLE STREETLIGHT ASSEMBLY PER USD 314 OR 316.</p> <p>PROPOSED SERVICE PEDESTAL.</p> <p>PROPOSED PULLBOX PER USD 326.</p> <p>BLUE REFLECTOR</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## CONSTRUCTION NOTES

- ① INSTALL 8" 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 CE-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.

**APPROVALS**

  1-31-09

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.

**APPROVALS**

  1-31-19

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.

L18-02380 107V509



**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 "QVOD 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

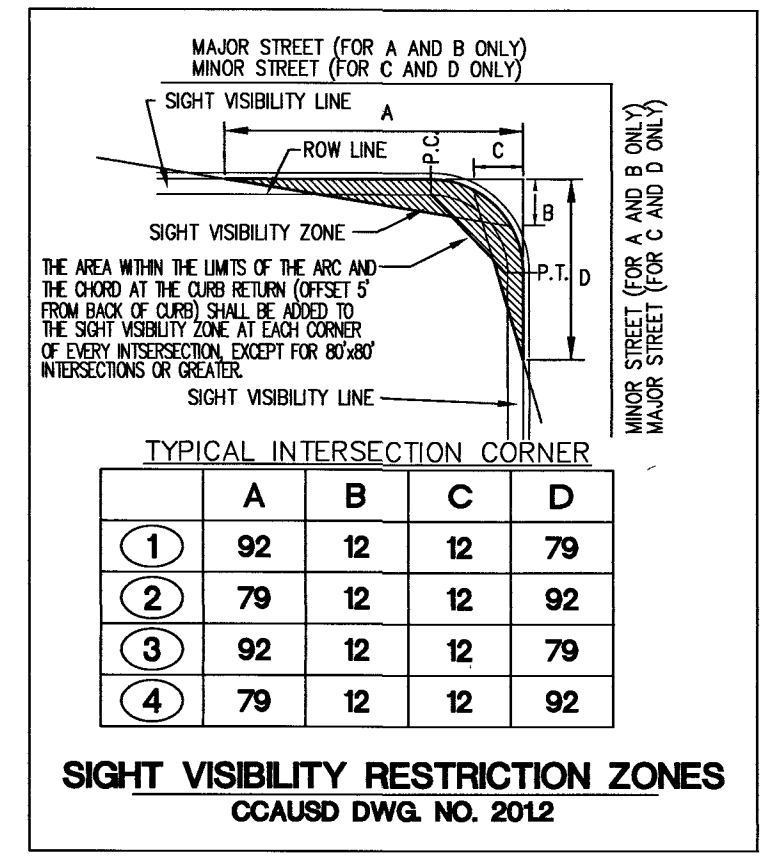
ELEVATION: 2551.98 FEET  
777.844 METERS

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

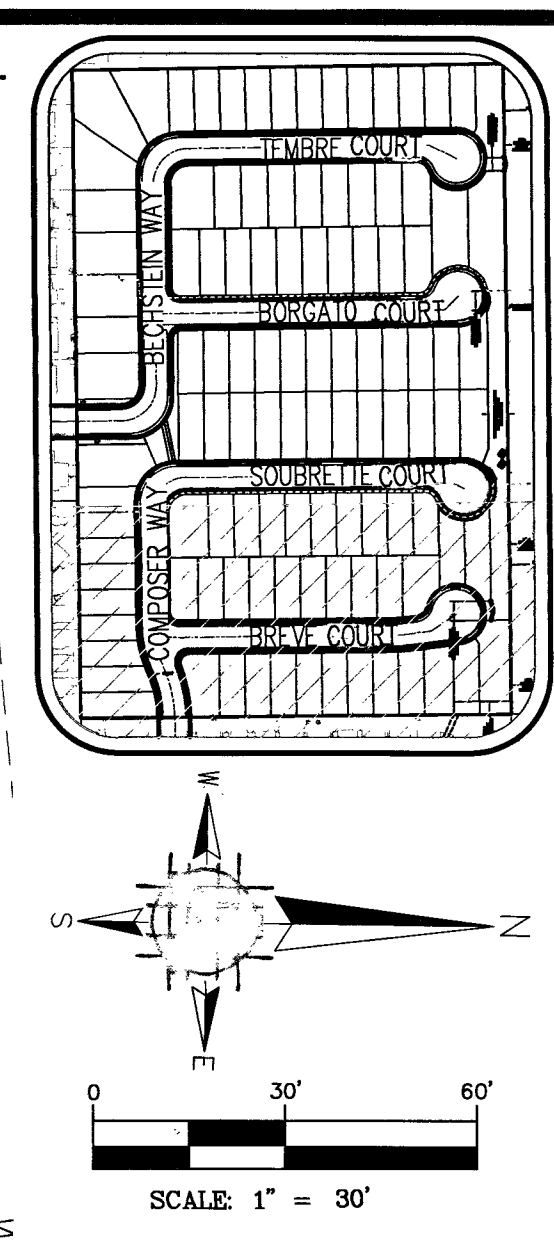
R1-1 "STOP SIGN"

**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



**ADVANTAGE CIVIL DESIGN GROUP, LLP**  
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HENDERSON, NEVADA 89014  
Office: 702.452.2294  
Fax: 702.496.2294  
Email: info@advantagecivil-nv.com  
CONSULTING

**STATE OF NEVADA**  
JAN 12 2019  
CIVIL  
RECEIVED  
NO. 20000

**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**

L18-02380 107V5099