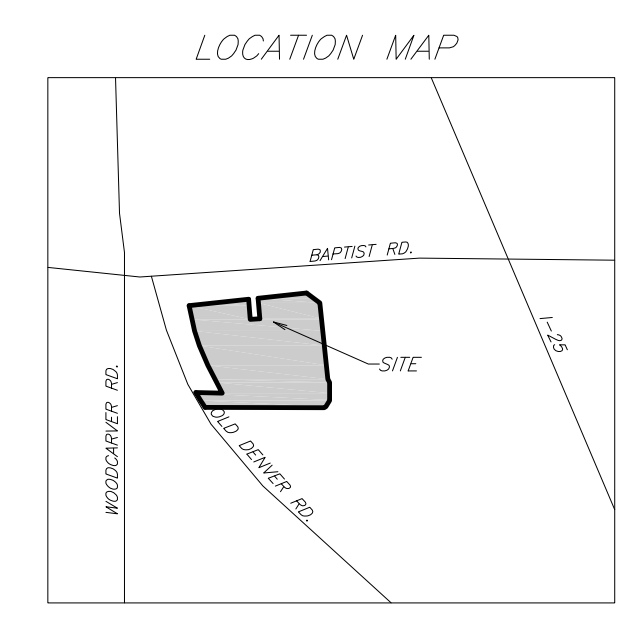
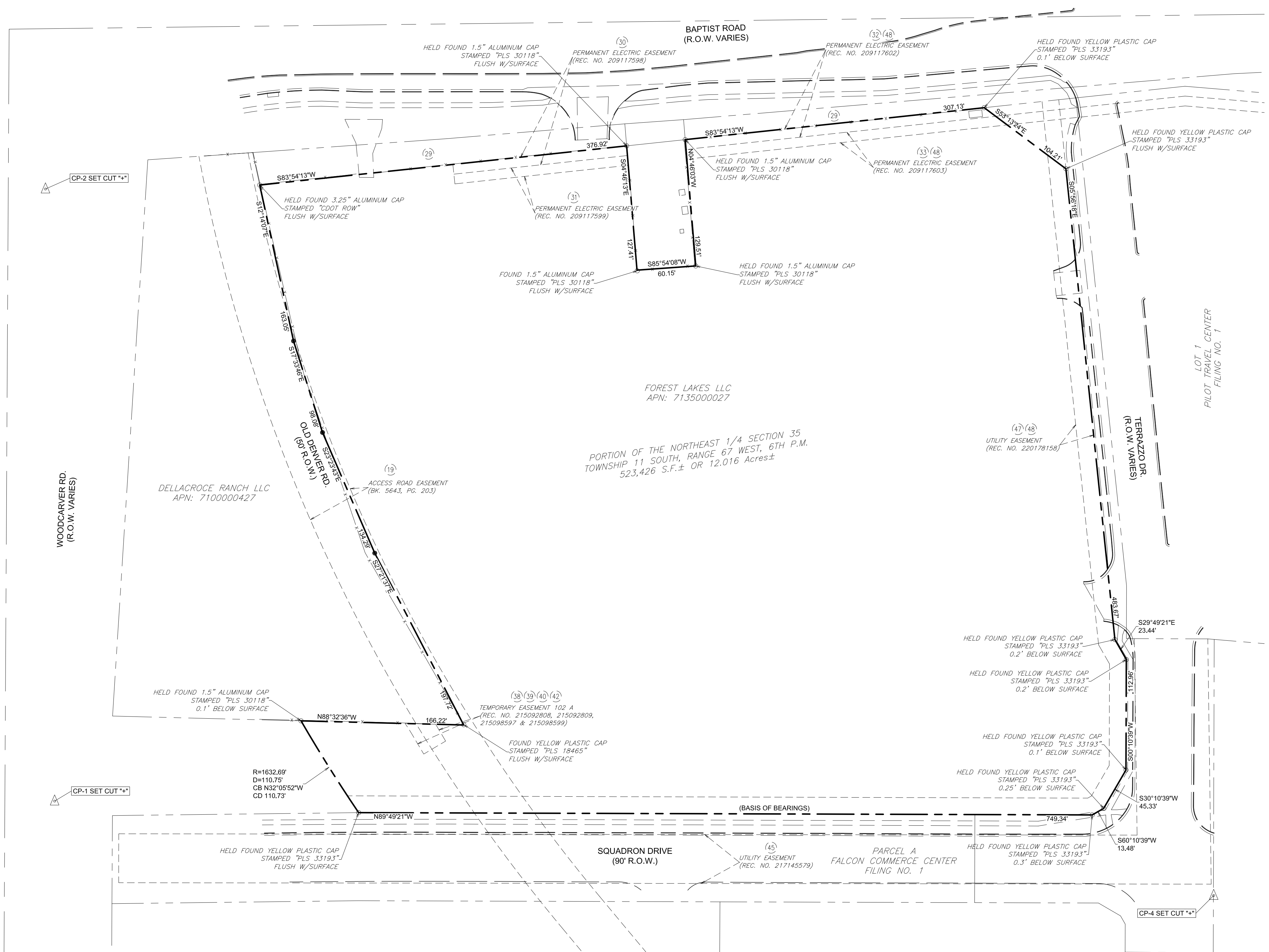






BOUNDARY DETAIL  
SCALE: 1" = 60'

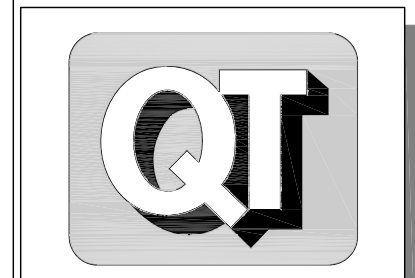


**SURVEY LEGEND**

- Control Point (Set)
  - Section Corner (Found)
  - Property Corner (Found)
  - Property Corner (To be Set)
  - R/W Monument Found
  - Benchmark
  - Utility Pedestal/Riser
  - Utility Pole
  - Utility Pole W/Transformer
  - Utility Pole W/Light
  - Guy Wire
  - Light Pole
  - Utility Valve (Plus Type)
  - Fire Hydrant
  - Single Post Sign
  - Double Post Sign
  - Utility Manhole
  - Traffic Arrows
  - Spot Elevation
  - Major Contour
  - Minor Contour
  - Curb & Gutter Elevation
  - Overhead Electric
  - Overhead Electric, Telephone and Cable
  - Water Line
  - Sanitary Sewer Line
  - Gas Line
  - Underground Telephone
  - Underground Cable TV
  - Storm Sewer Line
  - Guardrail
  - Wire Fence
  - Center Line
  - Property R/W Line (QT Net)
  - Property R/W Lot Line (Others)
  - Curb Line
  - Edge of Asphalt
  - Edge of Concrete
- BM BENCHMARK  
 WTR WATER  
 WV WATER VALVE  
 EBOX ELECTRIC BOX  
 SP STEEL POLE  
 WP WOOD POLE  
 VOL VOLUME  
 PG PAGE  
 OPR OFFICIAL PUBLIC RECORDS  
 DPR DEED AND PLAT RECORDS  
 R.O.W. RIGHT-OF-WAY  
 C&G CURB AND GUTTER  
 SSMH STORM DRAIN MAINHOLE  
 CI SANITARY SEWER MANHOLE CURB INLET

PROJECT NO.: 21165

**QuikTrip No. 4299**  
1671 SQUADRON DRIVE  
MONUMENT, CO.



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PROTOTYPE: X  
DIVISION: X  
VERSION: X  
DESIGNED BY: X  
DRAWN BY: JT  
REVIEWED BY: JAL

REV	DATE	DESCRIPTION
1	11/24/21	SUBDIVISION PLAT 1ST REVIEW COMMENT REVISION

SHEET TITLE:

TOPOGRAPHIC SURVEY PLAN

SHEET NUMBER:

3

MODIFIED PROJECT GROUND CONTROL (NAD 83)				
CP	NORTHING	EASTING	ELEV	DESCRIPTION
CP-1	1445358.22	3182136.88	6794.71'	SET CUT CROSS
CP-2	1445983.65	3182127.51	6811.94'	SET CUT CROSS
CP-4	1445261.71	3183320.79	6811.30'	SET CUT CROSS

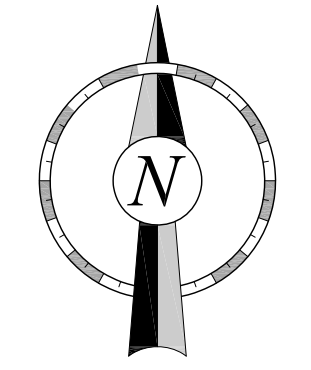
THE CONTROL POINTS SHOWN HEREON SHALL BE USED FOR THE DEVELOPMENT OF THE PROJECT. ALTURA LAND CONSULTANTS, LLC WILL NOT BE HELD LIABLE FOR ANY LOSS OR DAMAGE ARISING FROM ANY DEVIATION FROM THE USE OF SAID CONTROL POINTS DURING THE DEVELOPMENT OF THE PROJECT.

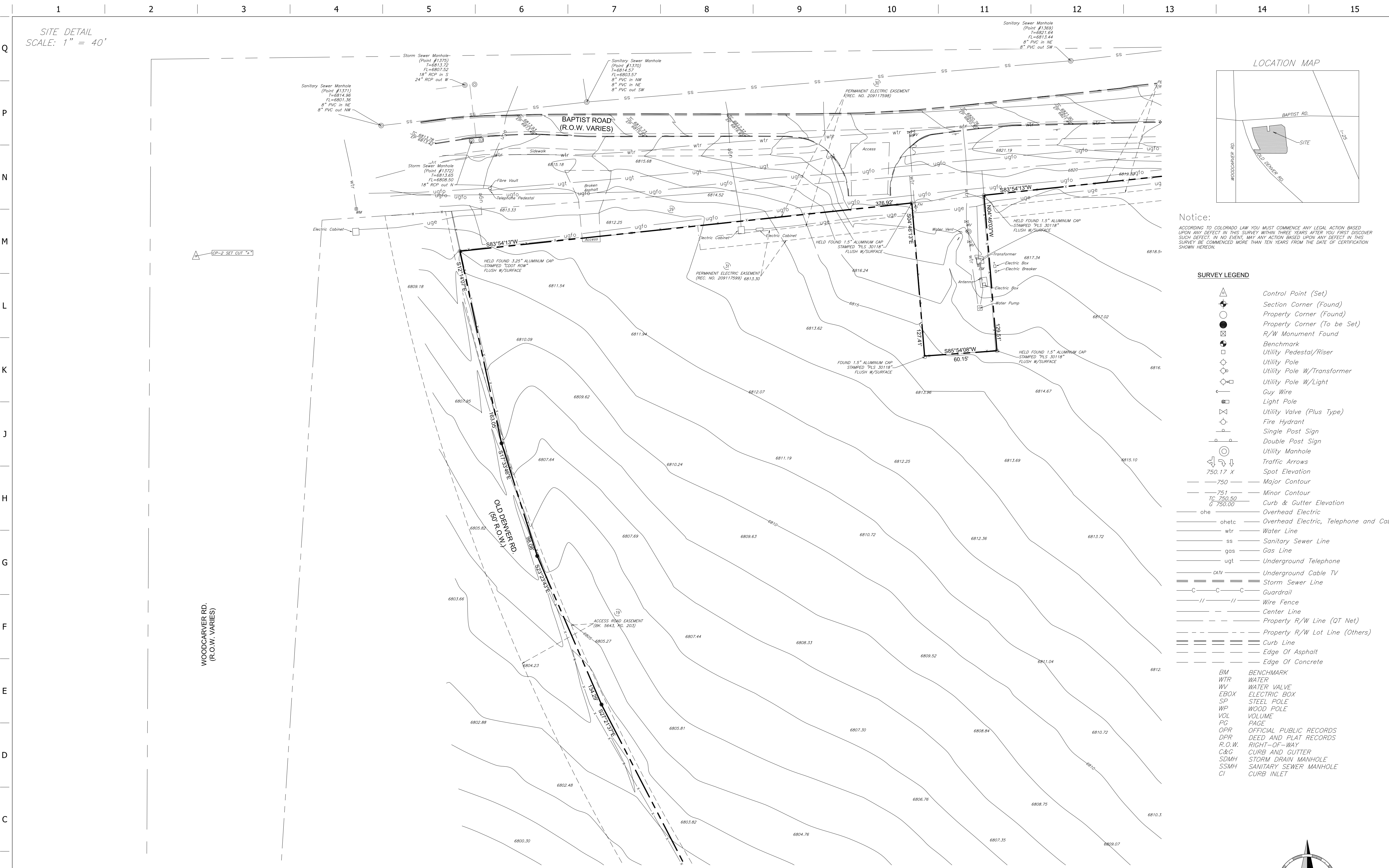
**Notice:**

ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT IN NO EVENT, MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF CERTIFICATION SHOWN HEREON.

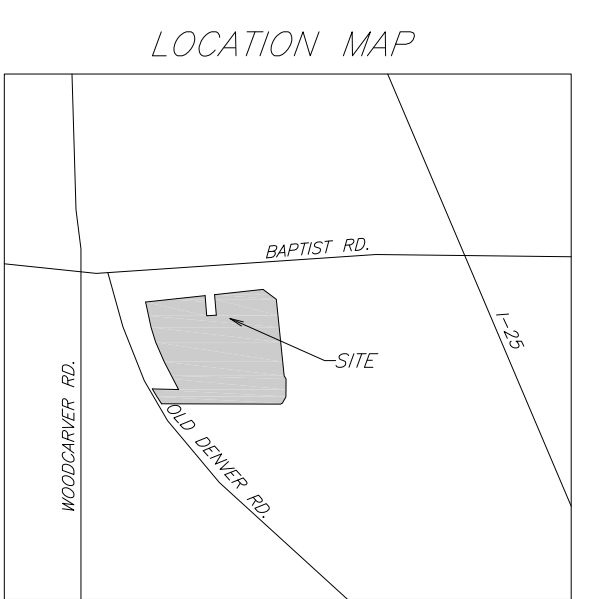
**Underground Utility Note:**

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SITE DETAIL  
SCALE: 1" = 40'



Notice:  
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SURVEY LEGEND

- Control Point (Set)
  - Section Corner (Found)
  - Property Corner (Found)
  - Property Corner (To be Set)
  - R/W Monument Found
  - Benchmark
  - Utility Pedestal/Riser
  - Utility Pole
  - Utility Pole W/Transformer
  - Utility Pole W/Light
  - Guy Wire
  - Light Pole
  - Utility Valve (Plus Type)
  - Fire Hydrant
  - Single Post Sign
  - Double Post Sign
  - Utility Manhole
  - Traffic Arrows
  - Spot Elevation
  - Major Contour
  - Minor Contour
  - Curb & Gutter Elevation
  - Overhead Electric
  - Overhead Electric, Telephone and Cable
  - Water Line
  - Sanitary Sewer Line
  - Gas Line
  - Underground Telephone
  - Underground Cable TV
  - Storm Sewer Line
  - Guardrail
  - Wire Fence
  - Center Line
  - Property R/W Line (OT Net)
  - Curb Line
  - Edge Of Asphalt
  - Edge Of Concrete
- BM BENCHMARK  
 WTR WATER  
 WV WATER VALVE  
 EBOX ELECTRIC BOX  
 SP STEEL POLE  
 WP WOOD POLE  
 VOL VOLUME  
 PG PAGE  
 OPR OFFICIAL PUBLIC RECORDS  
 DPR DEED AND PLAT RECORDS  
 R.O.W. RIGHT-OF-WAY  
 C&G CURB AND GUTTER  
 SSMH STORM DRAIN MANHOLE  
 SSMH SANITARY SEWER MANHOLE  
 CI CURB INLET

PROJECT NO.: 21165

**QuikTrip No. 4299**  
1671 SQUADRON DRIVE  
MONUMENT, CO.



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PROTOTYPE: X  
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VERSION: X  
DESIGNED BY: X  
DRAWN BY: JT  
REVIEWED BY: JAL

REV	DATE	DESCRIPTION	REVISION COMMENT
1	11/24/21	SUBDIVISION PLAT	1ST REVIEW COMMENT REVISION

ORIGINAL ISSUE DATE: JUL.

MODIFIED PROJECT GROUND CONTROL (NAD 83)				
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CP-2	1445983.65	3182127.51	6811.94'	SET CUT CROSS
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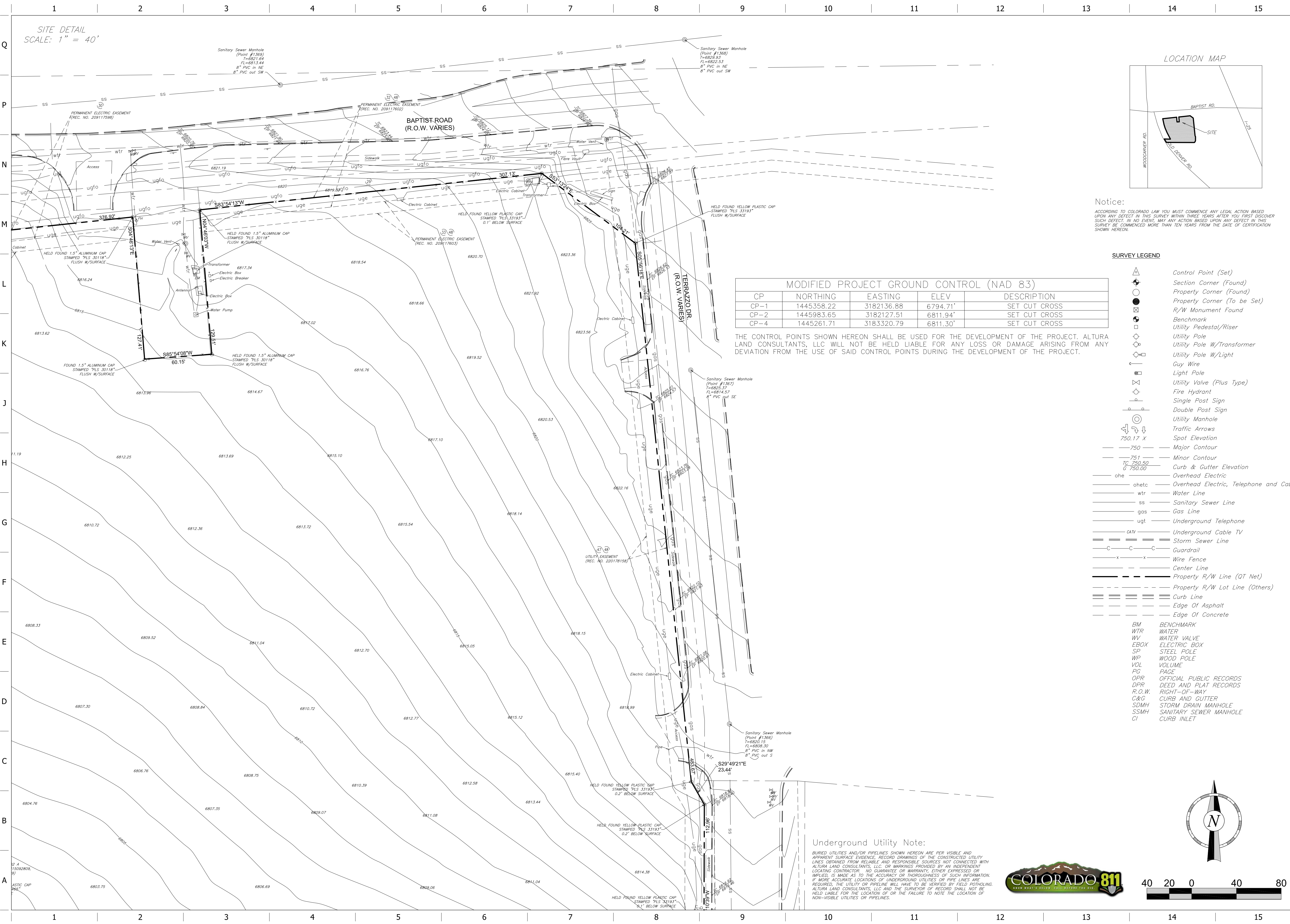


SHEET TITLE:

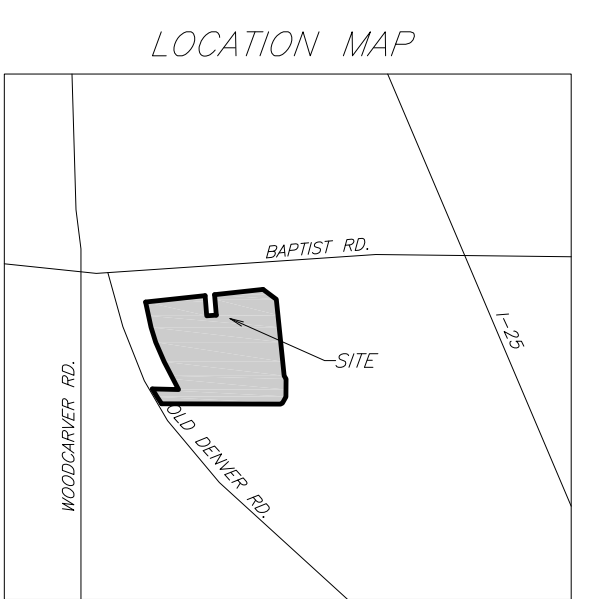
TOPOGRAPHIC SURVEY PLAN

SHEET NUMBER:

4



SITE DETAIL  
SCALE: 1" = 40'



Notice:  
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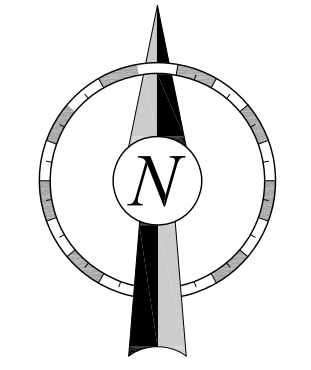
MODIFIED PROJECT GROUND CONTROL (NAD 83)				
CP	NORTHING	EASTING	ELEV	DESCRIPTION
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**SURVEY LEGEND**

- Control Point (Set)
  - Section Corner (Found)
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  - Property Corner (To Be Set)
  - R/W Monument Found
  - Benchmark
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  - Utility Pole
  - Utility Pole W/Transformer
  - Utility Pole W/Light
  - Guy Wire
  - Light Pole
  - Utility Valve (Plus Type)
  - Fire Hydrant
  - Single Post Sign
  - Double Post Sign
  - Utility Manhole
  - Traffic Arrows
  - Spot Elevation
  - Major Contour
  - Minor Contour
  - Curb & Gutter Elevation
  - Overhead Electric
  - Overhead Electric, Telephone and Cable
  - Water Line
  - Sanitary Sewer Line
  - Gas Line
  - Underground Telephone
  - Underground Cable TV
  - Storm Sewer Line
  - Guardrail
  - Wire Fence
  - Center Line
  - Property R/W Line (OT Net)
  - Property R/W Lot Line (Others)
  - Curb Line
  - Edge Of Asphalt
  - Edge Of Concrete
- 
- BM BENCHMARK
  - WTR WATER
  - WV WATER VALVE
  - EBOX ELECTRIC BOX
  - SP STEEL POLE
  - WP WOOD POLE
  - VOL VOLUME
  - PG PAGE
  - OPR OFFICIAL PUBLIC RECORDS
  - DPR DEED AND PLAT RECORDS
  - R.O.W. RIGHT-OF-WAY
  - C&G CURB AND GUTTER
  - SDMH STORM DRAIN MANHOLE
  - SSMH SANITARY SEWER MANHOLE
  - CI CURB INLET

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PROJECT NO.: 21165

**QuikTrip No. 4299**  
1671 SQUADRON DRIVE  
MONUMENT, CO.



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PROTOTYPE: X  
DIVISION: X  
VERSION: X  
DESIGNED BY: X  
DRAWN BY: JT  
REVIEWED BY: JAL

REV	DATE	DESCRIPTION
1	11/24/21	SUBDIVISION PLAT 1ST REVIEW COMMENT REVISION

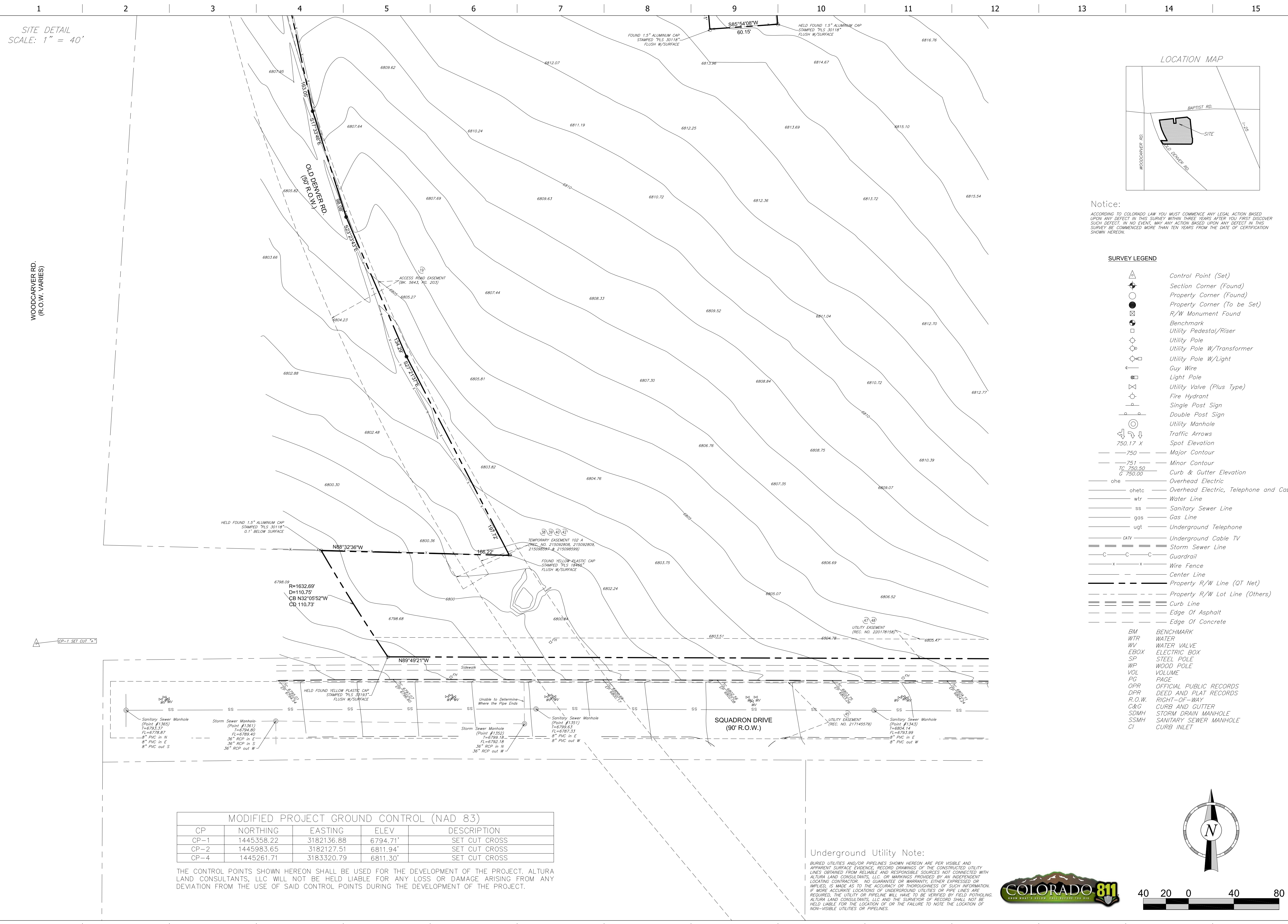
SHEET TITLE:

TOPOGRAPHIC SURVEY PLAN

SHEET NUMBER:

5

ORIGINAL ISSUE DATE: JUL.



SITE DETAIL  
SCALE: 1" = 40'

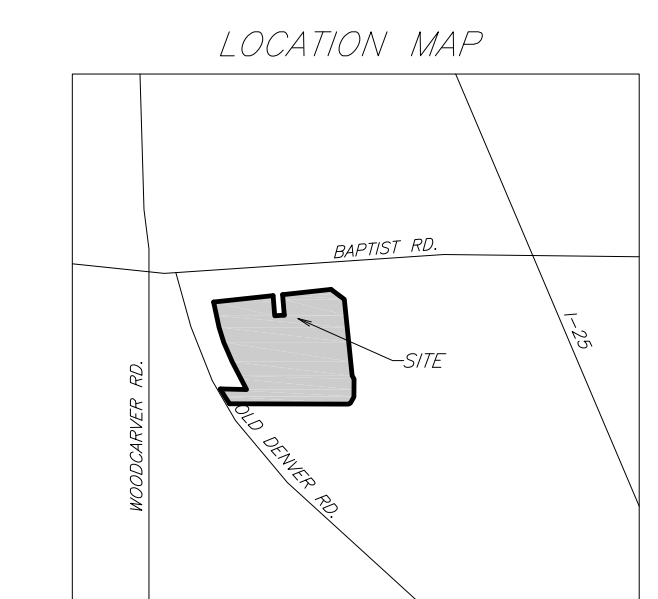
WOODCARVER RD.  
(R.O.W. VARIES)

CP-1 SET OUT

MODIFIED PROJECT GROUND CONTROL (NAD 83)				
CP	NORTHING	EASTING	ELEV.	DESCRIPTION
CP-1	1445358.22	3182136.88	6794.71'	SET CUT CROSS
CP-2	1445983.65	3182127.51	6811.94'	SET CUT CROSS
CP-4	1445261.71	3183320.79	6811.30'	SET CUT CROSS

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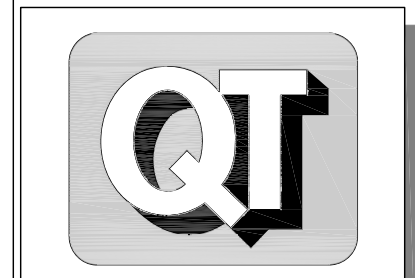
Notice:  
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**SURVEY LEGEND**

- ▲ Control Point (Set)
  - Section Corner (Found)
  - Property Corner (Found)
  - Property Corner (To be Set)
  - R/W Monument Found
  - Benchmark
  - Utility Pedestal/Riser
  - Utility Pole
  - Utility Pole W/Transformer
  - Utility Pole W/Light
  - Guy Wire
  - Light Pole
  - Utility Valve (Plus Type)
  - Fire Hydrant
  - Single Post Sign
  - Double Post Sign
  - Utility Manhole
  - Traffic Arrows
  - 750.17 X Spot Elevation
  - 750 Major Contour
  - 751 Minor Contour
  - 750.00 Curb & Gutter Elevation
  - 6 750.00 Overhead Electric
  - ohe Overhead Electric, Telephone and Cable
  - wtr Water Line
  - ss Sanitary Sewer Line
  - gas Gas Line
  - ugt Underground Telephone
  - catv Underground Cable TV
  - SS Storm Sewer Line
  - C-C-C Guardrail
  - x-x-x Wire Fence
  - - - Center Line
  - - - Property R/W Line (OT Net)
  - - - Property R/W Lot Line (Others)
  - - - Curb Line
  - - - Edge Of Asphalt
  - - - Edge Of Concrete
- BM BENCHMARK  
WTR WATER  
WV WATER VALVE  
EBOX ELECTRIC BOX  
SP STEEL POLE  
WP WOOD POLE  
VOL VOLUME  
PG PAGE  
OPR OFFICIAL PUBLIC RECORDS  
DPR DEED AND PLAT RECORDS  
R.O.W. RIGHT-OF-WAY  
C&G CURB AND GUTTER  
SDMH STORM DRAIN MANHOLE  
SSMH SANITARY SEWER MANHOLE  
CI CURB INLET

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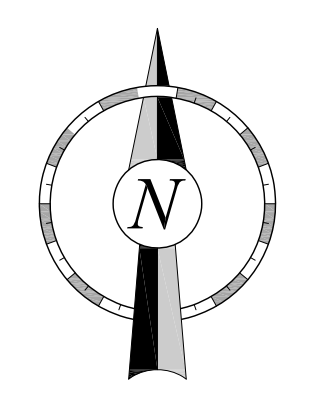
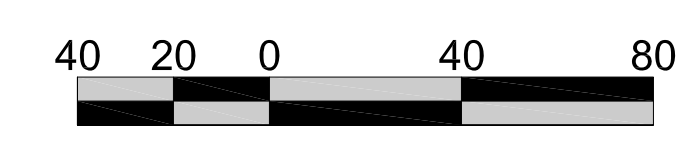
PROTOTYPE: X  
DIVISION: X  
VERSION: X  
DESIGNED BY: X  
DRAWN BY: JT  
REVIEWED BY: JAL

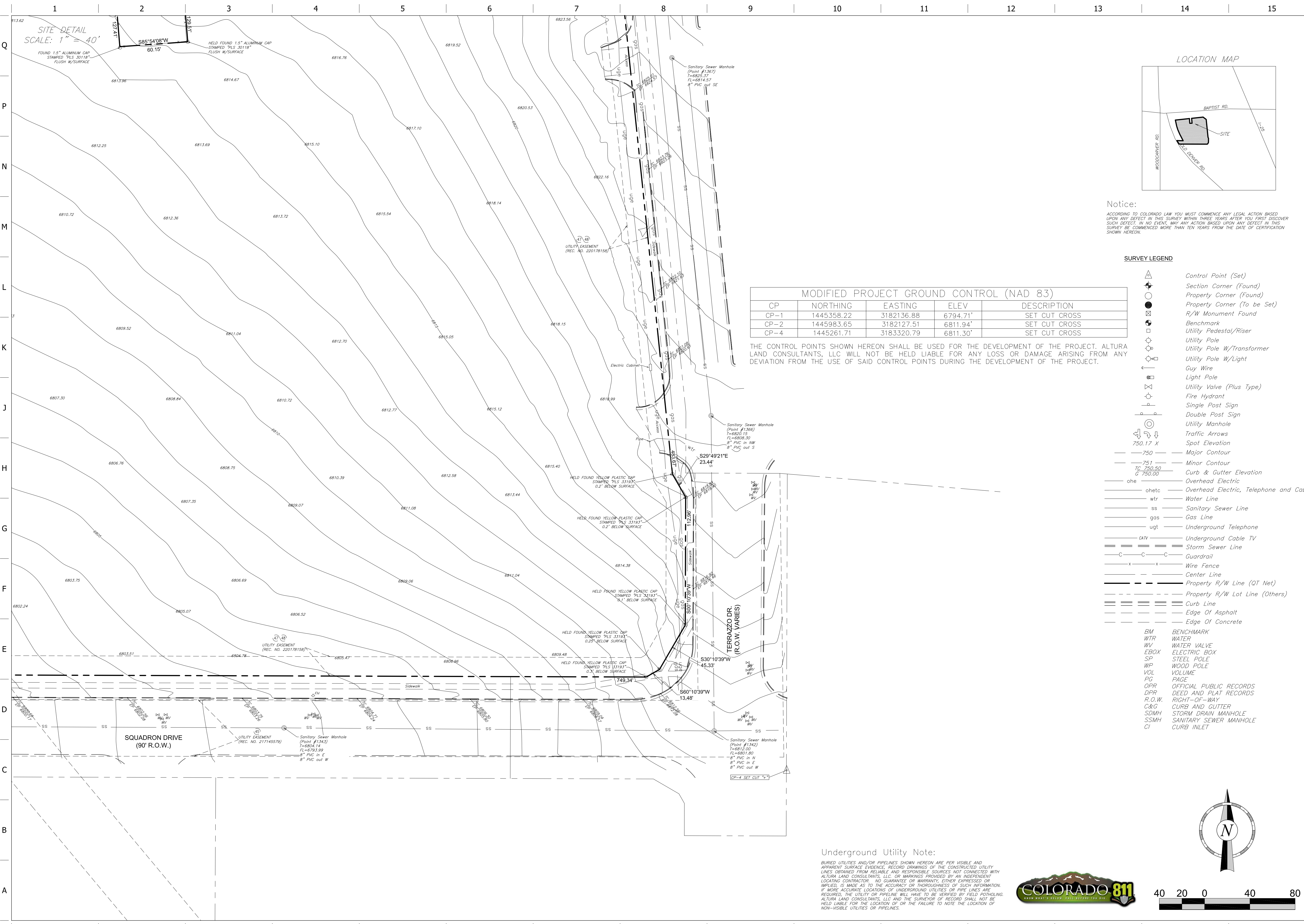
REV	DATE	DESCRIPTION	BY	CHK
1	11/24/21	SUBDIVISION PLAT 1ST REVIEW COMMENT REVISION		

SHEET TITLE:  
TOPOGRAPHIC SURVEY PLAN

SHEET NUMBER:  
**6**

ORIGINAL ISSUE DATE: JUL





Q  
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

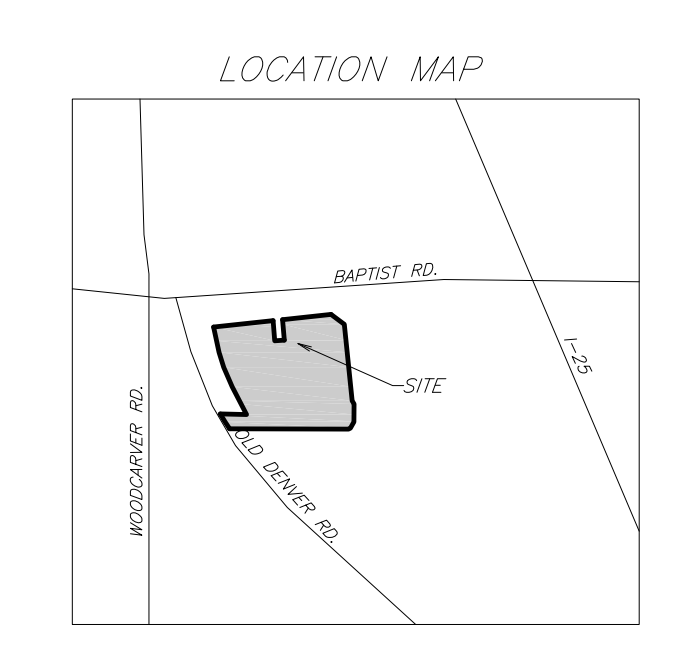
Q  
P  
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M  
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J  
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D  
C  
B  
A

**SITE DETAIL**  
SCALE: 1" = 40'

FOUND 1.5" ALUMINUM CAP  
STAMPED "PLS 30118"  
FLUSH W/SURFACE

895°54'08"W  
60.15'

HELD FOUND 1.5" ALUMINUM CAP  
STAMPED "PLS 30118"  
FLUSH W/SURFACE



**Notice:**  
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**MODIFIED PROJECT GROUND CONTROL (NAD 83)**

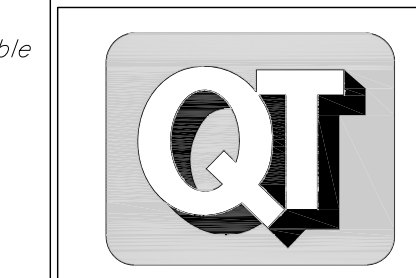
CP	NORTHING	EASTING	ELEV	DESCRIPTION
CP-1	1445358.22	3182136.88	6794.71'	SET CUT CROSS
CP-2	1445983.65	3182127.51	6811.94'	SET CUT CROSS
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- SURVEY LEGEND**
- ▲ Control Point (Set)
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  - ⊕ Guy Wire
  - ⊕ Light Pole
  - ⊕ Utility Valve (Plus Type)
  - ⊕ Fire Hydrant
  - ⊕ Single Post Sign
  - ⊕ Double Post Sign
  - ⊕ Utility Manhole
  - ⊕ Traffic Arrows
  - 750.17 X Spot Elevation
  - 750 Major Contour
  - 751 Minor Contour
  - 750.00 Curb & Gutter Elevation
  - ohe Overhead Electric
  - ohe Overhead Electric, Telephone and Cable
  - wtr Water Line
  - ss Sanitary Sewer Line
  - gas Gas Line
  - ugt Underground Telephone
  - cav Underground Cable TV
  - SS Storm Sewer Line
  - C-C Guardrail
  - x-x-x Wire Fence
  - - - Center Line
  - - - Property R/W Line (OT Net)
  - - - Property R/W Lot Line (Others)
  - - - Curb Line
  - - - Edge Of Asphalt
  - - - Edge Of Concrete
- BM BENCHMARK  
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WV WATER VALVE  
EBOX ELECTRIC BOX  
SP STEEL POLE  
WP WOOD POLE  
VOL VOLUME  
PAGE OFFICIAL PUBLIC RECORDS  
DPR DEED AND PLAT RECORDS  
R.O.W. RIGHT-OF-WAY  
C&G CURB AND GUTTER  
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REVIEWED BY: JAL

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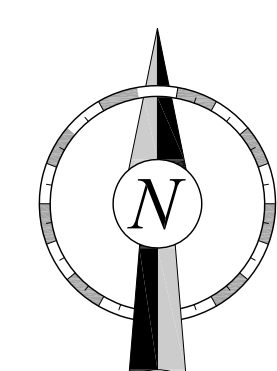
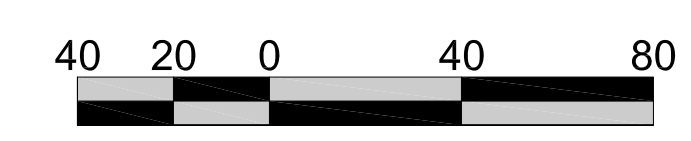
SHEET TITLE:

TOPOGRAPHIC SURVEY PLAN

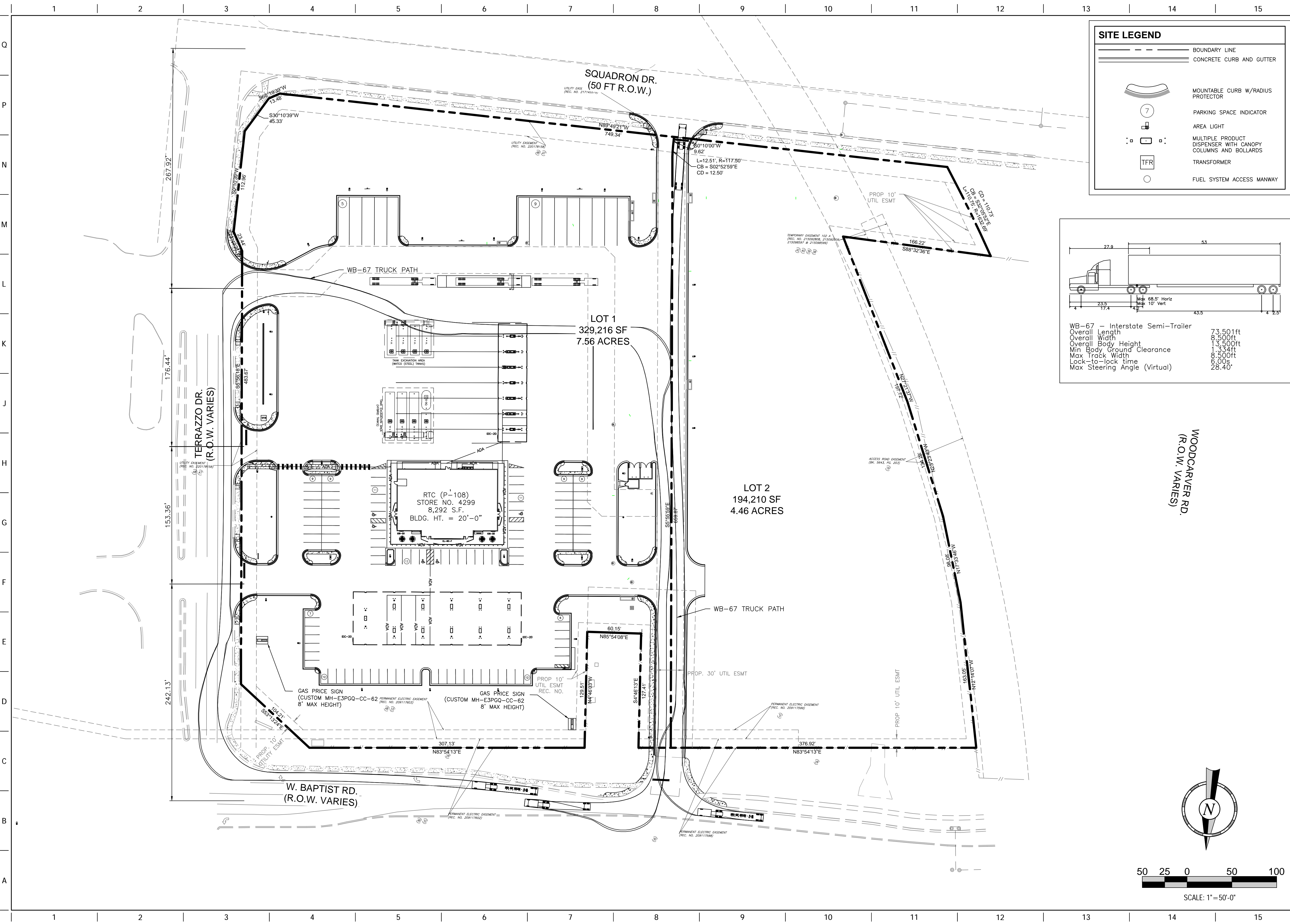
SHEET NUMBER:

7

**Underground Utility Note:**  
BURIED UTILITIES AND/OR PIPELINES SHOWN HEREON ARE PER VISIBLE AND APPARENT SURFACE EVIDENCE. RECORDED DRAWINGS OF THE CONSTRUCTED UTILITY LINES OBTAINED FROM RELIABLE AND RESPONSIBLE SOURCES NOT CONNECTED WITH ALTURA LAND CONSULTANTS, LLC. OR MARKINGS PROVIDED BY AN INDEPENDENT LOCATING CONTRACTOR. NO GUARANTEE OR WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY OR THOROUGHNESS OF SUCH INFORMATION. IF MORE ACCURATE LOCATIONS OF UNDERGROUND UTILITIES OR PIPE LINES ARE REQUIRED, THE UTILITY OR PIPELINE WILL HAVE TO BE VERIFIED BY FIELD POT-HOLING. ALTURA LAND CONSULTANTS, LLC AND THE SURVEYOR OF RECORD SHALL NOT BE HELD LIABLE FOR THE LOCATION OF OR THE FAILURE TO NOTE THE LOCATION OF NON-VISIBLE UTILITIES OR PIPELINES.



FILE LOCATION: \\Quiktrip\Monument\CD\CD\2-Plan\85-4299\_Civil.dwg Overall USE: Duncun\_Roady SAV: 11/12/2021 7:44 AM PLOTTED: 11/12/2021 12:15 PM



**SITE LEGEND**

- BOUNDARY LINE
- ==== CONCRETE CURB AND GUTTER
- MOUNTABLE CURB W/RADIUS PROTECTOR
- PARKING SPACE INDICATOR
- AREA LIGHT
- MULTIPLE PRODUCT DISPENSER WITH CANOPY COLUMNS AND BOLLARDS
- TRANSFORMER
- FUEL SYSTEM ACCESS MANWAY

WB-67 - Interstate Semi-Trailer

Overall Length	73.50ft
Overall Width	8.50ft
Overall Body Height	13.50ft
Min Body Ground Clearance	1.33ft
Max Track Width	8.50ft
Lock-to-lock time	6.00s
Max Steering Angle (Virtual)	28.40°

PROJECT NO.: QKT004299

**QuikTrip No. 4299**  
S.W.C. OF BAPTIST RD & TERRAZZO DR.  
MONUMENT, COLORADO



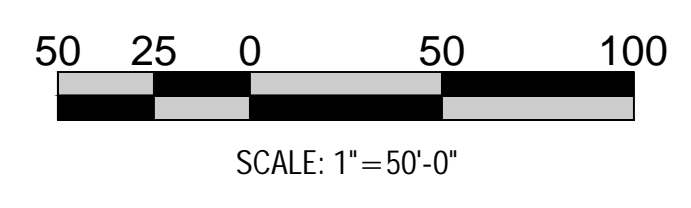
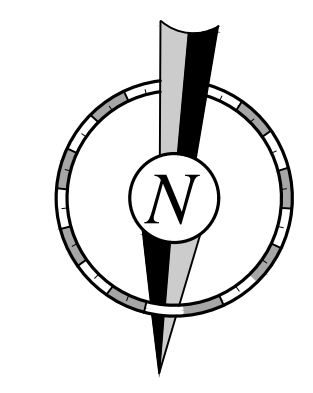
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PROTOTYPE: P-108 (11/01/21)
DIVISION: 83
VERSION: 001
DESIGNED BY: DLR
DRAWN BY: DLR
REVIEWED BY: ACJ

REV	DATE	DESCRIPTION

SHEET TITLE:  
SITE PLAN (OVERALL)

SHEET NUMBER:  
**8**

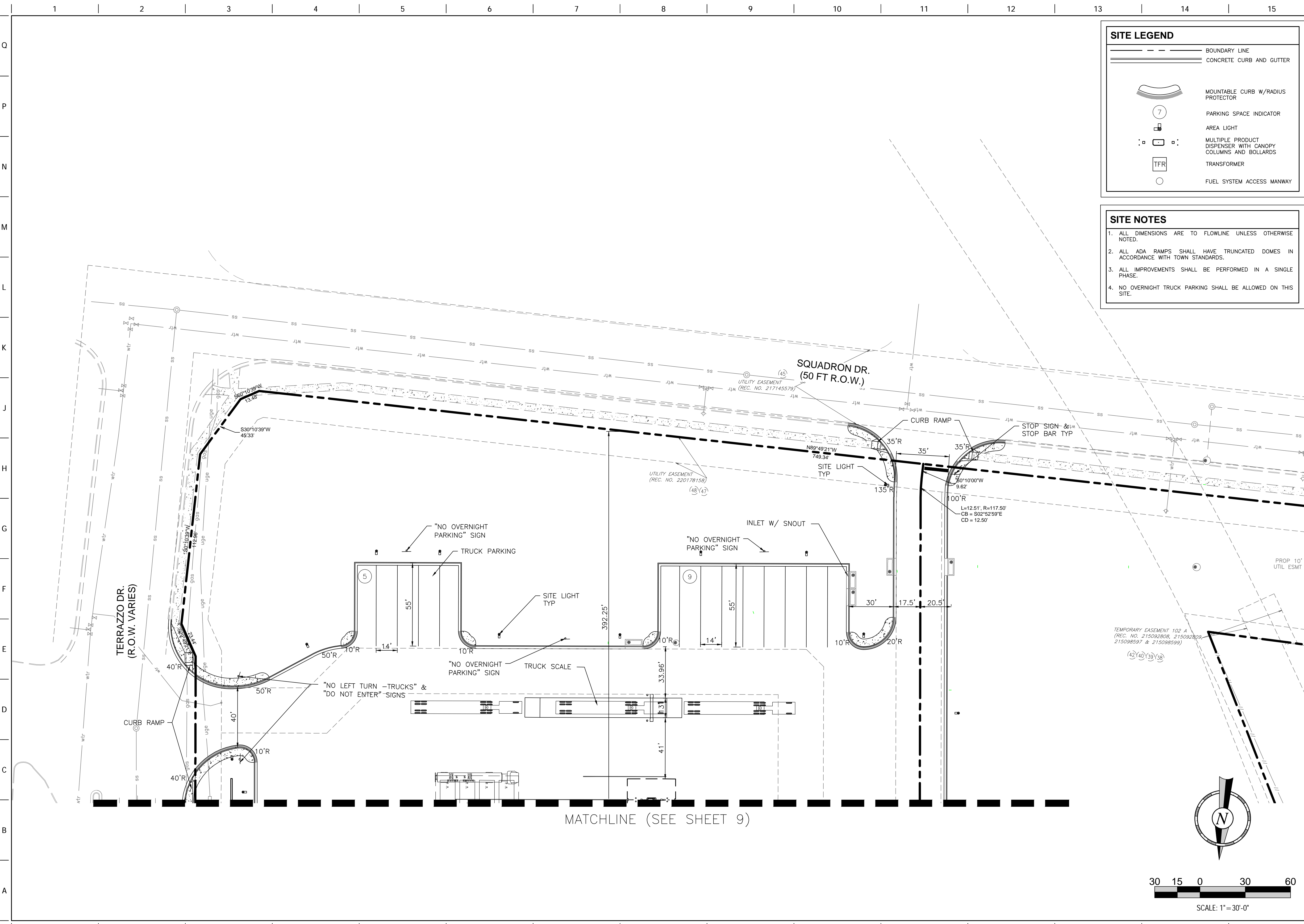


ORIGINAL ISSUE DATE: 9/24/2021





FILE LOCATION: H:\QuikTrip\QuikTrip\CD\CD\2-Plan\85-4299\_Civil.dwg TAB NAME: Site (PUD) South USER: Duncanson, Roddy SAVED: 11/12/2021 7:44 AM PLOTTED: 11/12/2021 12:15 PM



**SITE LEGEND**

- BOUNDARY LINE
- ==== CONCRETE CURB AND GUTTER
- MOUNTABLE CURB W/RADIUS PROTECTOR
- PARKING SPACE INDICATOR
- AREA LIGHT
- MULTIPLE PRODUCT DISPENSER WITH CANOPY COLUMNS AND BOLLARDS
- TRANSFORMER
- FUEL SYSTEM ACCESS MANWAY

**SITE NOTES**

1. ALL DIMENSIONS ARE TO FLOWLINE UNLESS OTHERWISE NOTED.
2. ALL ADA RAMP SHALL HAVE TRUNCATED DOMES IN ACCORDANCE WITH TOWN STANDARDS.
3. ALL IMPROVEMENTS SHALL BE PERFORMED IN A SINGLE PHASE.
4. NO OVERNIGHT TRUCK PARKING SHALL BE ALLOWED ON THIS SITE.

PROJECT NO.: QKT004299

**QuikTrip No. 4299**  
S.W.C. OF BAPTIST RD & TERRAZZO DR.  
MONUMENT, COLORADO

**QT**

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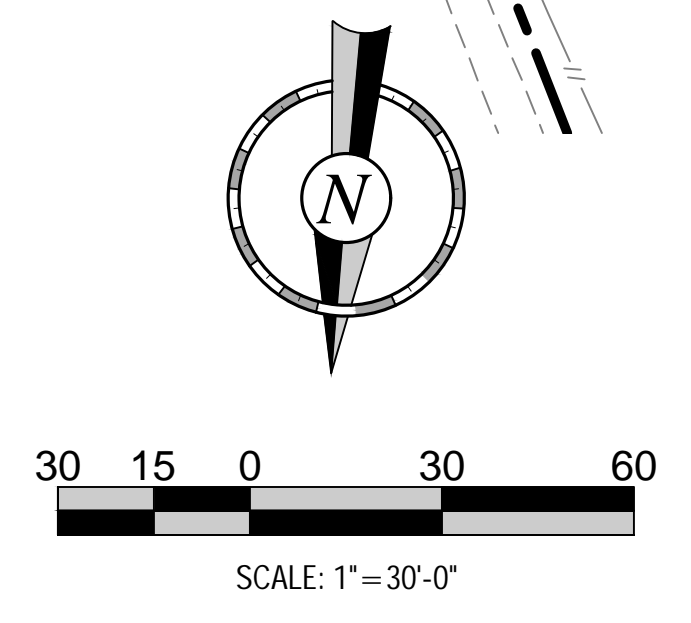
PROTOTYPE: P-108 (11/01/21)  
DIVISION: 83  
VERSION: D01  
DESIGNED BY: DLR  
DRAWN BY: DLR  
REVIEWED BY: ACJ

REV	DATE	DESCRIPTION

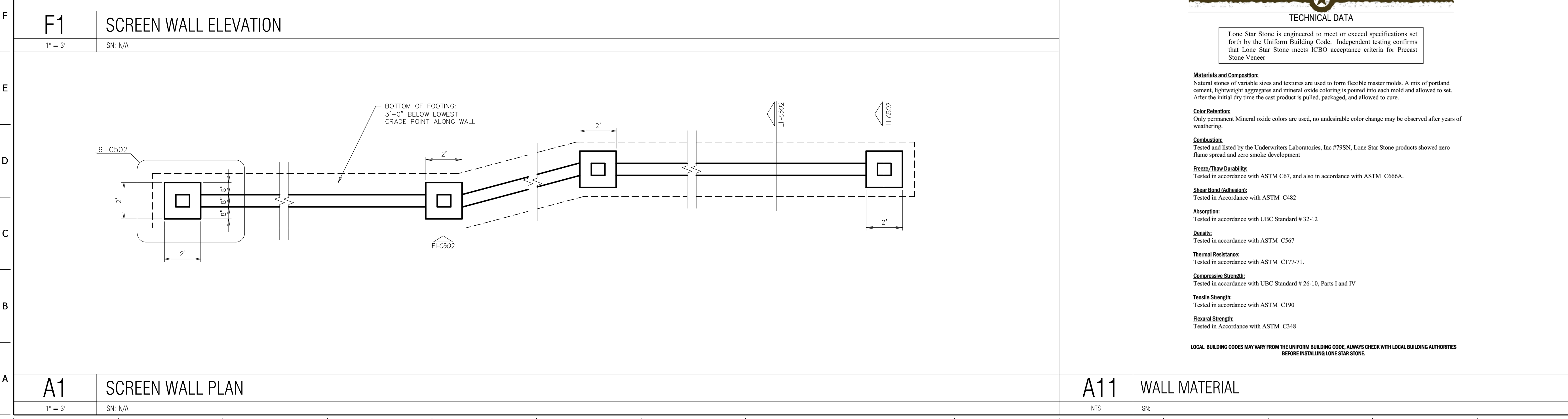
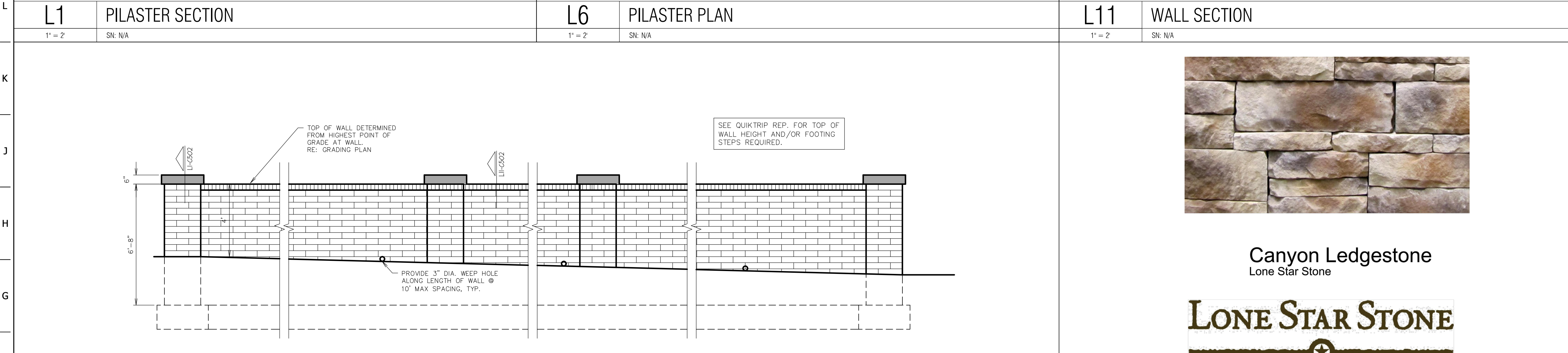
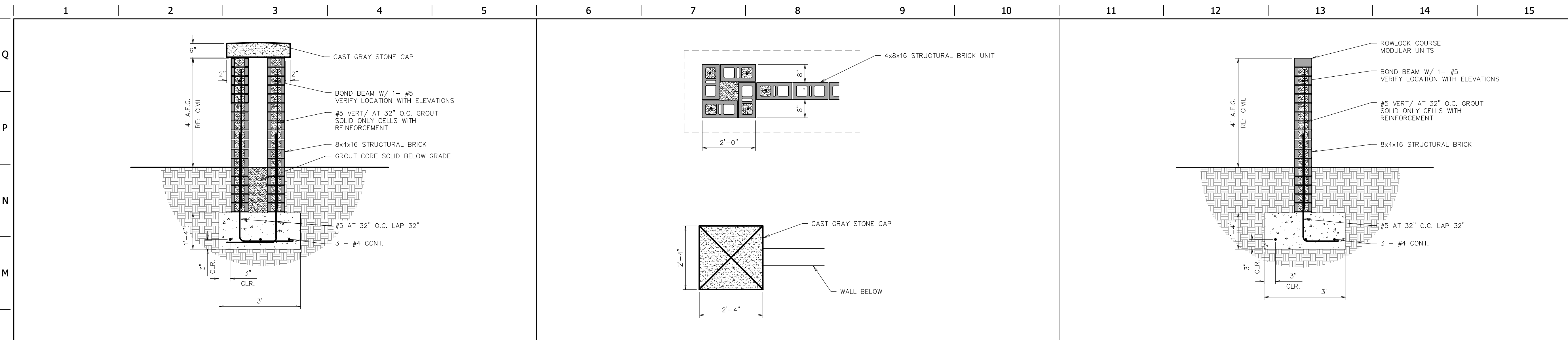
ORIGINAL ISSUE DATE: 9/24/2021

SHEET TITLE:  
SITE PLAN (SOUTH)

SHEET NUMBER:  
**10**



FILE LOCATION: H:\Quiktrip\0004299-Monument, CO\0004299-Plan\03-4299-WALL DETAILS.dwg TAB NAME: WALL DETAIL SHEET USER: duncanson Body SAVED: 11/9/2021 1:22 PM PLOTTED: 11/16/2021 12:39 PM



**L11 WALL SECTION**  
 1" = 2" SN: N/A

**Canyon Ledgestone Lone Star Stone**

**LONE STAR STONE**

TECHNICAL DATA

Lone Star Stone is engineered to meet or exceed specifications set forth by the Uniform Building Code. Independent testing confirms that Lone Star Stone meets ICBO acceptance criteria for Precast Stone Veneer.

**Materials and Composition:**  
 Natural stones of variable sizes and textures are used to form flexible master molds. A mix of portland cement, lightweight aggregates and mineral oxide coloring is poured into each mold and allowed to set. After the initial dry time the cast product is pulled, packaged, and allowed to cure.

**Color Retention:**  
 Only permanent mineral oxide colors are used, no undesirable color change may be observed after years of weathering.

**Combustion:**  
 Tested and listed by the Underwriters Laboratories, Inc #79SN, Lone Star Stone products showed zero flame spread and zero smoke development.

**Freeze/Thaw Durability:**  
 Tested in accordance with ASTM C67, and also in accordance with ASTM C666A.

**Shear Bond (Adhesion):**  
 Tested in accordance with ASTM C482

**Absorption:**  
 Tested in accordance with UBC Standard # 32-12

**Density:**  
 Tested in accordance with ASTM C567

**Thermal Resistance:**  
 Tested in accordance with ASTM C177-71.

**Compressive Strength:**  
 Tested in accordance with UBC Standard # 26-10, Parts I and IV

**Tensile Strength:**  
 Tested in accordance with ASTM C190

**Flexural Strength:**  
 Tested in accordance with ASTM C348

LOCAL BUILDING CODES MAY VARY FROM THE UNIFORM BUILDING CODE, ALWAYS CHECK WITH LOCAL BUILDING AUTHORITIES BEFORE INSTALLING LONE STAR STONE.

PROJECT NO.: QKT004299

**QuikTrip No. 4299**  
 S.W.C. OF BAPTIST RD & TERRAZZO DR.  
 MONUMENT, COLORADO

**QT**

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DIVISION:	83
VERSION:	001
DESIGNED BY:	DLR
DRAWN BY:	DLR
REVIEWED BY:	ACJ

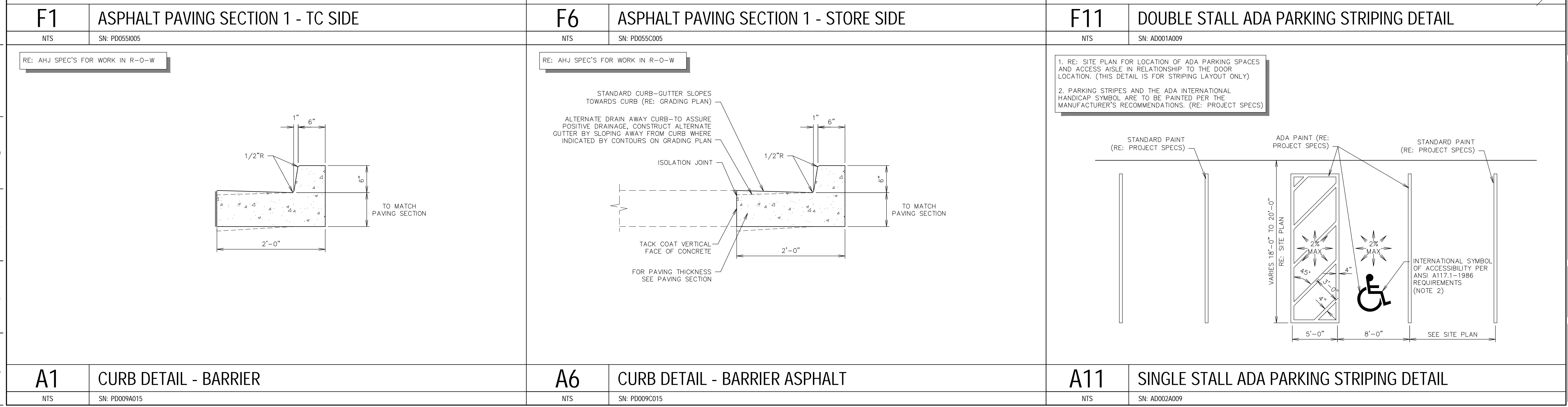
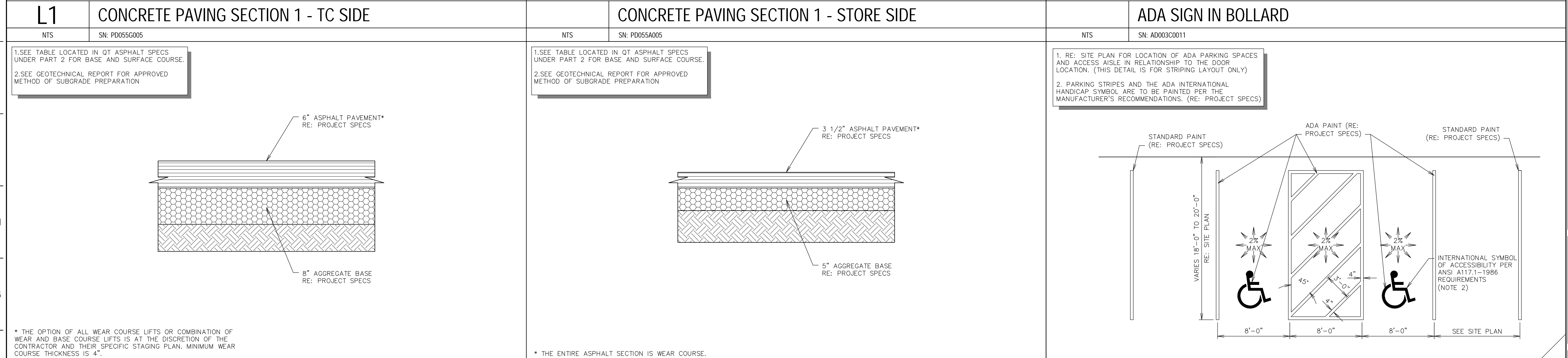
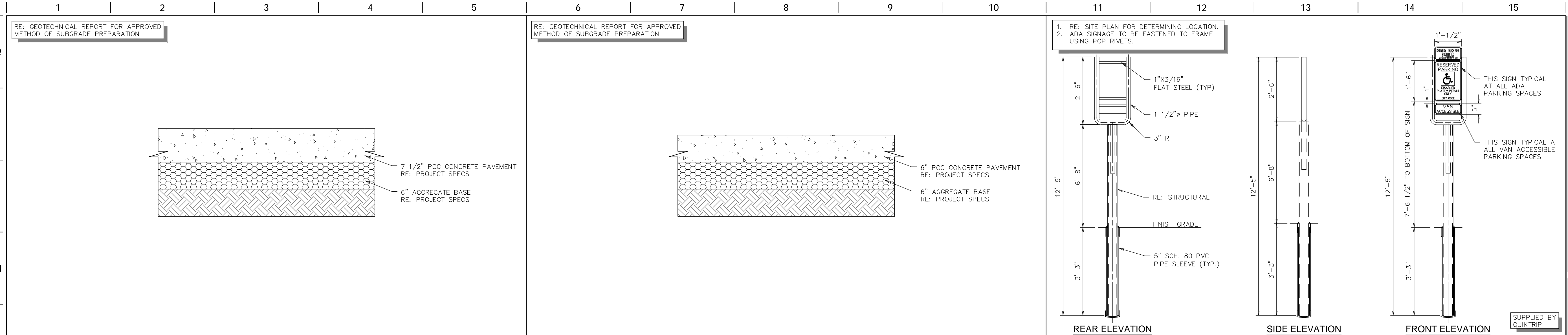
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 9/24/2021

SHEET TITLE:  
 SCREEN WALL DETAILS

SHEET NUMBER:  
 11

FILE LOCATION: H:\QuikTrip\DKT004299-Monument, CO\CD\3-CD\DETAILS PAVING.DWG TAB NAME: Paving Detail Sheet 1 USER: buncan, Rody SAV: 11/10/2021 8:21 AM PLOTTED: 11/12/2021 12:16 PM



PROJECT NO.: QKT004299

**QuikTrip No. 4299**  
S.W.C. OF BAPTIST RD & TERRAZZO DR.  
MONUMENT, COLORADO

PROTOTYPE: P-108 (11/01/21)  
 DIVISION: 83  
 VERSION: 001  
 DESIGNED BY: DLR  
 DRAWN BY: DLR  
 REVIEWED BY: ACJ

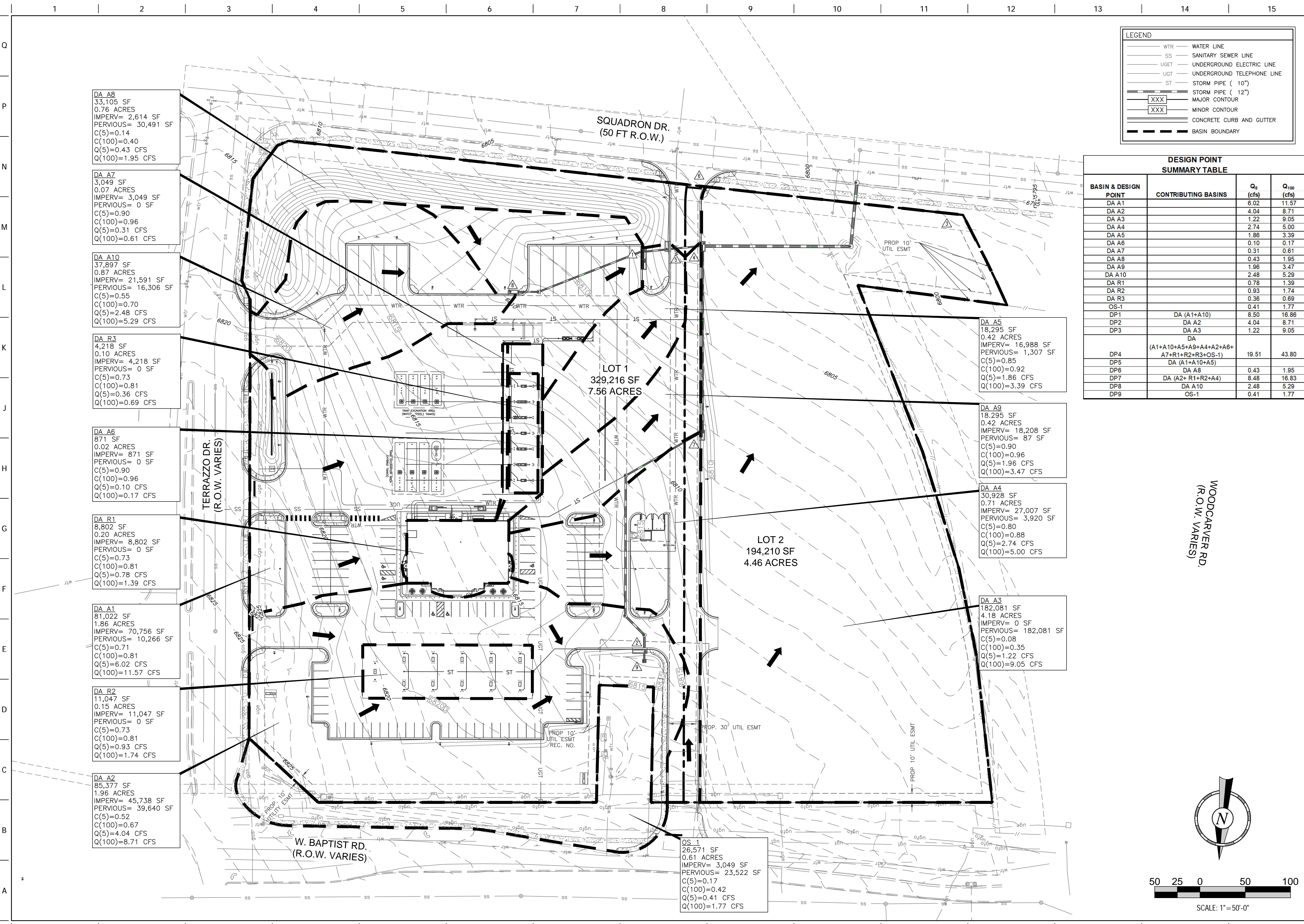
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 9/24/2021

SHEET TITLE:  
MISCELLANEOUS SITE DETAILS

SHEET NUMBER:  
**12**

FILE LOCATION: \\QuikTrip\QuikTrip\GIS\04299-Monument\CD\Civil\2-Plan\85-4299-Civil.dwg TAB NAME: Grading\_Drainage (PUD) USER: duncann\_rody SAV: 11/12/2021 7:44 AM PLOTTED: 11/12/2021 12:17 PM



**LEGEND**

- WTR — WATER LINE
- SS — SANITARY SEWER LINE
- UGET — UNDERGROUND ELECTRIC LINE
- UGT — UNDERGROUND TELEPHONE LINE
- ST — STORM PIPE ( 10" )
- ST — STORM PIPE ( 12" )
- XXX — MAJOR CONTOUR
- XXX — MINOR CONTOUR
- — CONCRETE CURB AND GUTTER
- — BASIN BOUNDARY

**DESIGN POINT SUMMARY TABLE**

BASIN & DESIGN POINT	CONTRIBUTING BASINS	Q <sub>s</sub> (cfs)	Q <sub>100</sub> (cfs)
DA A1		6.02	11.57
DA A2		4.04	8.71
DA A3		1.22	9.05
DA A4		2.74	5.00
DA A5		1.86	3.39
DA A6		0.10	0.17
DA A7		0.31	0.61
DA A8		0.43	1.95
DA A9		1.96	3.47
DA A10		2.48	5.29
DA R1		0.78	1.39
DA R2		0.93	1.74
DA R3		0.36	0.69
OS-1		0.41	1.77
DP1	DA (A1+A10)	8.50	16.86
DP2	DA A2	4.04	8.71
DP3	DA A3	1.22	9.05
DP4	DA (A1+A10+A5+A9+A4+A2+A6+A7+R1+R2+R3+OS-1)	19.51	43.80
DP5	DA (A1+A10+A5)		
DP6	DA A8	0.43	1.95
DP7	DA (A2+ R1+R2+A4)	8.48	16.83
DP8	DA A10	2.48	5.29
DP9	OS-1	0.41	1.77

DA A8  
33,105 SF  
0.76 ACRES  
IMPERV= 2,614 SF  
PERVIOUS= 30,491 SF  
C(5)=0.14  
C(100)=0.40  
Q(5)=0.43 CFS  
Q(100)=1.95 CFS

DA A7  
3,049 SF  
0.07 ACRES  
IMPERV= 3,049 SF  
PERVIOUS= 0 SF  
C(5)=0.90  
C(100)=0.96  
Q(5)=0.31 CFS  
Q(100)=0.61 CFS

DA A10  
37,897 SF  
0.87 ACRES  
IMPERV= 21,591 SF  
PERVIOUS= 16,306 SF  
C(5)=0.55  
C(100)=0.70  
Q(5)=2.48 CFS  
Q(100)=5.29 CFS

DA R3  
4,218 SF  
0.10 ACRES  
IMPERV= 4,218 SF  
PERVIOUS= 0 SF  
C(5)=0.73  
C(100)=0.81  
Q(5)=0.36 CFS  
Q(100)=0.69 CFS

DA A6  
871 SF  
0.02 ACRES  
IMPERV= 871 SF  
PERVIOUS= 0 SF  
C(5)=0.90  
C(100)=0.96  
Q(5)=0.10 CFS  
Q(100)=0.17 CFS

DA R1  
8,802 SF  
0.20 ACRES  
IMPERV= 8,802 SF  
PERVIOUS= 0 SF  
C(5)=0.73  
C(100)=0.81  
Q(5)=0.78 CFS  
Q(100)=1.39 CFS

DA A1  
81,022 SF  
1.86 ACRES  
IMPERV= 70,756 SF  
PERVIOUS= 10,266 SF  
C(5)=0.71  
C(100)=0.81  
Q(5)=6.02 CFS  
Q(100)=11.57 CFS

DA R2  
11,047 SF  
0.15 ACRES  
IMPERV= 45,738 SF  
PERVIOUS= 39,640 SF  
C(5)=0.52  
C(100)=0.67  
Q(5)=4.04 CFS  
Q(100)=8.71 CFS

DA A2  
85,377 SF  
1.96 ACRES  
IMPERV= 45,738 SF  
PERVIOUS= 39,640 SF  
C(5)=0.52  
C(100)=0.67  
Q(5)=4.04 CFS  
Q(100)=8.71 CFS

SQUADRON DR.  
(50 FT R.O.W.)

TERRAZZO DR.  
(R.O.W. VARIES)

W. BAPTIST RD.  
(R.O.W. VARIES)

WOODCARVER RD.  
(R.O.W. VARIES)

LOT 1  
329,216 SF  
7.56 ACRES

LOT 2  
194,210 SF  
4.46 ACRES

OS 1  
26,571 SF  
0.61 ACRES  
IMPERV= 3,049 SF  
PERVIOUS= 23,522 SF  
C(5)=0.17  
C(100)=0.42  
Q(5)=0.41 CFS  
Q(100)=1.77 CFS

PROJECT NO.: QKT004299

**QuikTrip No. 4299**  
S.W.C. OF BAPTIST RD & TERRAZZO DR.  
MONUMENT, COLORADO



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PROTOTYPE: P-108 (11/01/21)  
DIVISION: 83  
VERSION: 001  
DESIGNED BY: DLR  
DRAWN BY: DLR  
REVIEWED BY: ACJ

REV	DATE	DESCRIPTION

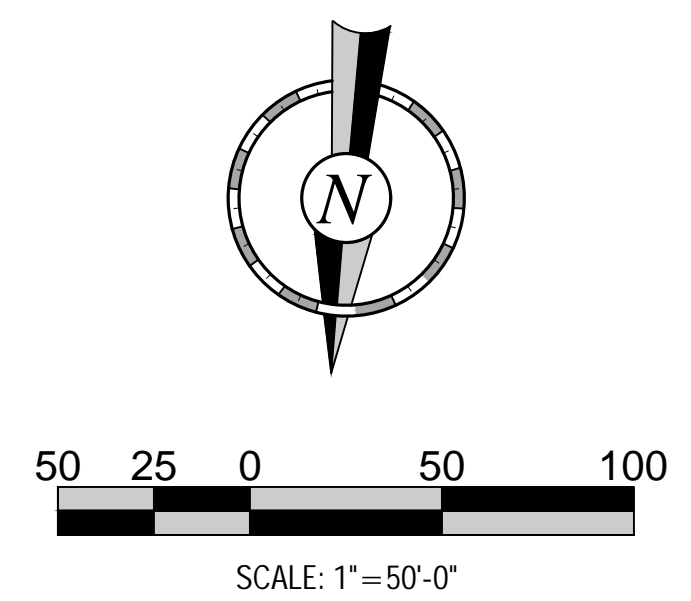
ORIGINAL ISSUE DATE: 9/24/2021

SHEET TITLE:

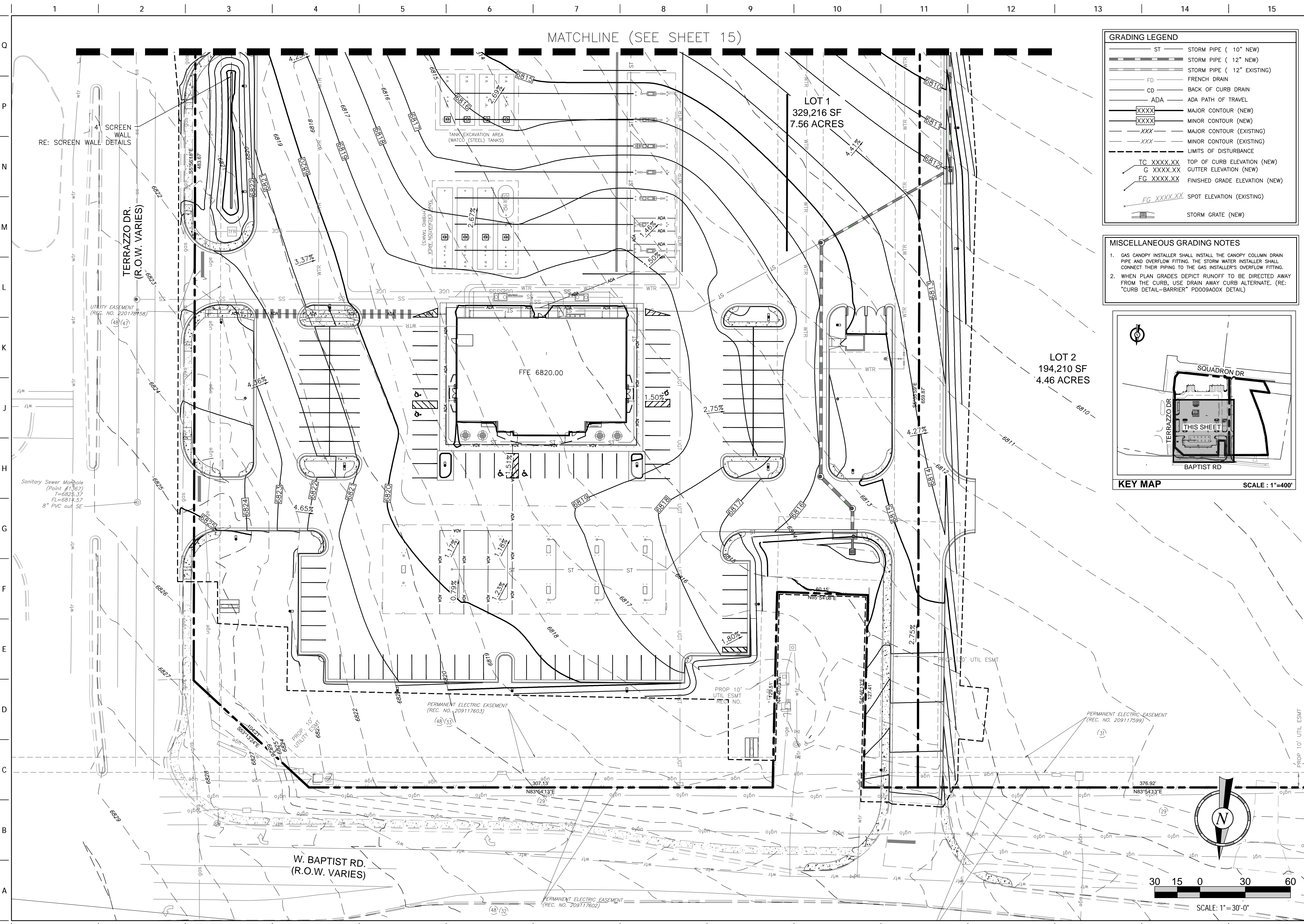
GRADING\_DRAINAGE PLAN

SHEET NUMBER:

13



FILE LOCATION: \\Quiktrip\Quiktrip\Monument\CD\CD\2-Plan\85-4299\_Civil.dwg USER: duncen\_rody SAVETIME: 11/12/2021 7:44 AM PLOTTED: 11/12/2021 12:17 PM

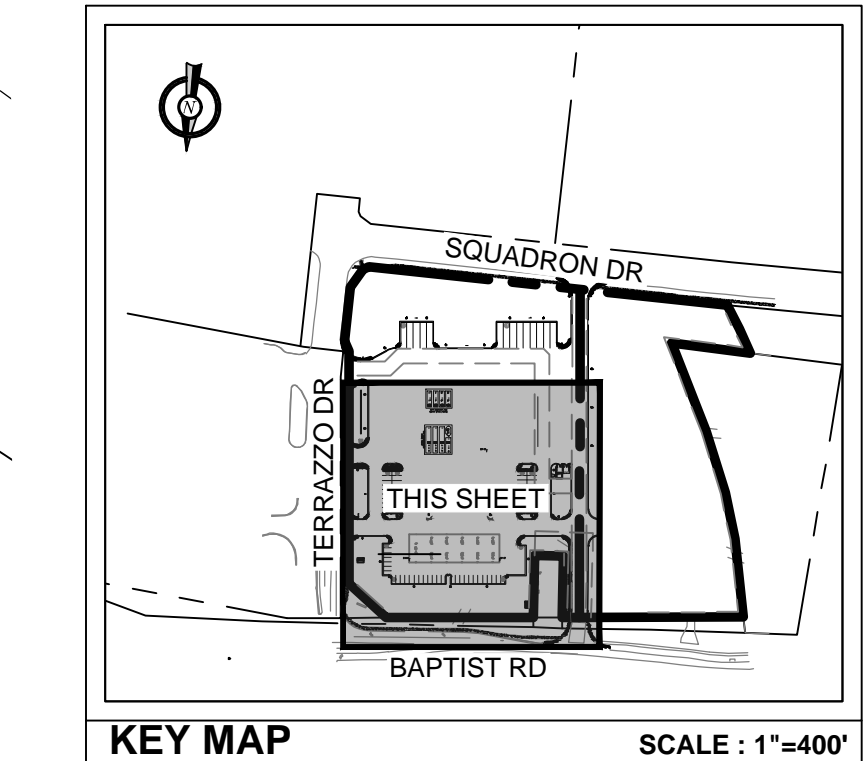


MATCHLINE (SEE SHEET 15)

**GRADING LEGEND**

ST	STORM PIPE ( 10" NEW)
ST	STORM PIPE ( 12" NEW)
ST	STORM PIPE ( 12" EXISTING)
FD	FRENCH DRAIN
CD	BACK OF CURB DRAIN
ADA	ADA PATH OF TRAVEL
XXXX	MAJOR CONTOUR (NEW)
XXXX	MINOR CONTOUR (NEW)
XXX	MAJOR CONTOUR (EXISTING)
XXX	MINOR CONTOUR (EXISTING)
- - - -	LIMITS OF DISTURBANCE
TC XXXX.XX	TOP OF CURB ELEVATION (NEW)
G XXXX.XX	GUTTER ELEVATION (NEW)
FG XXXX.XX	FINISHED GRADE ELEVATION (NEW)
FG XXXX.XX	SPOT ELEVATION (EXISTING)
[Symbol]	STORM GRATE (NEW)

- MISCELLANEOUS GRADING NOTES**
1. GAS CANOPY INSTALLER SHALL INSTALL THE CANOPY COLUMN DRAIN PIPE AND OVERFLOW FITTING. THE STORM WATER INSTALLER SHALL CONNECT THEIR PIPING TO THE GAS INSTALLER'S OVERFLOW FITTING.
  2. WHEN PLAN GRADES DEPICT RUNOFF TO BE DIRECTED AWAY FROM THE CURB, USE DRAIN AWAY CURB ALTERNATE. (RE: "CURB DETAIL-BARRIER" PD09A00X DETAIL)



PROJECT NO.: OKT004299

**QuikTrip No. 4299**  
S.W.C. OF BAPTIST RD & TERRAZZO DR.  
MONUMENT, COLORADO



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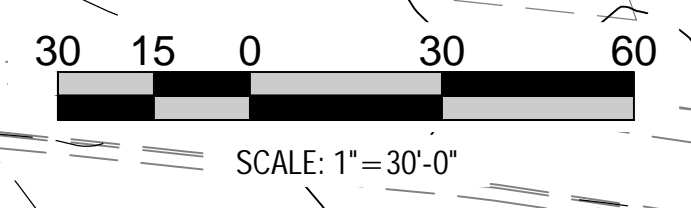
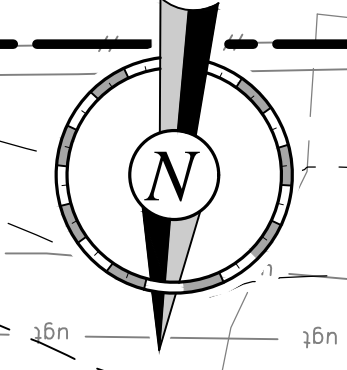
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DIVISION: 83  
VERSION: D01  
DESIGNED BY: DLR  
DRAWN BY: DLR  
REVIEWED BY: ACJ

REV	DATE	DESCRIPTION

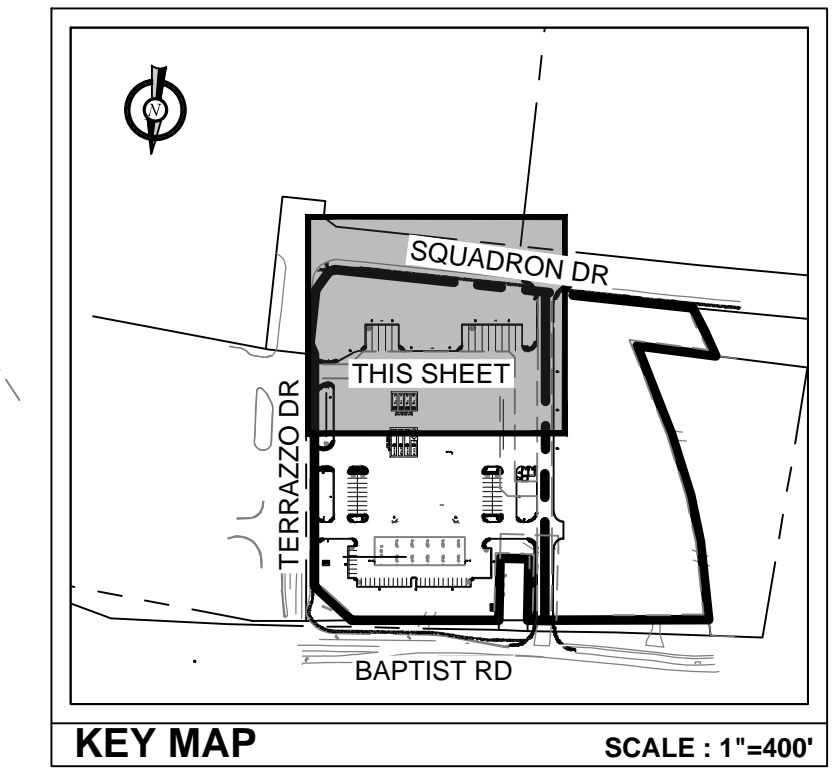
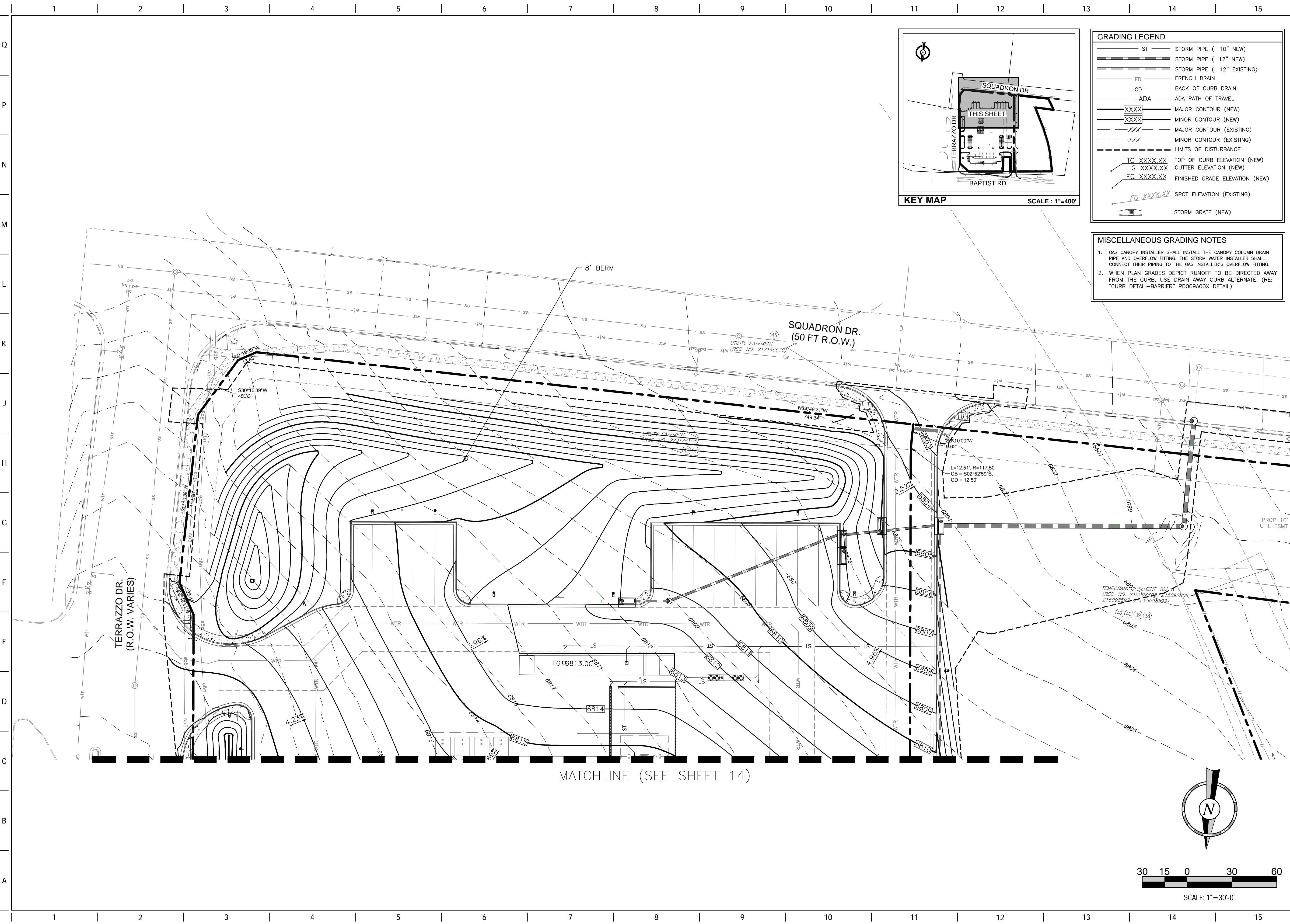
SHEET TITLE:  
**GRADING PLAN (NORTH)**

SHEET NUMBER:  
**14**

ORIGINAL ISSUE DATE: 9/24/2021



FILE LOCATION: H:\QuikTrip\QuikTrip\GK1004299-Monument, CO\CV\2-Plan\85-4299-Civil.dwg USER: duncanson, Rody SAVE DATE: 11/12/2021 7:44 AM PLOTTED: 11/12/2021 12:17 PM



GRADING LEGEND	
ST	STORM PIPE ( 10" NEW)
---	STORM PIPE ( 12" NEW)
---	STORM PIPE ( 12" EXISTING)
FD	FRENCH DRAIN
---	BACK OF CURB DRAIN
---	ADA PATH OF TRAVEL
XXXX	MAJOR CONTOUR (NEW)
XXXX	MINOR CONTOUR (NEW)
XXX	MAJOR CONTOUR (EXISTING)
---	MINOR CONTOUR (EXISTING)
---	LIMITS OF DISTURBANCE
TC XXXX.XX	TOP OF CURB ELEVATION (NEW)
G XXXX.XX	GUTTER ELEVATION (NEW)
FG XXXX.XX	FINISHED GRADE ELEVATION (NEW)
FG XXXX.XX	SPOT ELEVATION (EXISTING)
---	STORM GRATE (NEW)

- MISCELLANEOUS GRADING NOTES**
1. GAS CANOPY INSTALLER SHALL INSTALL THE CANOPY COLUMN DRAIN PIPE AND OVERFLOW FITTING. THE STORM WATER INSTALLER SHALL CONNECT THEIR PIPING TO THE GAS INSTALLER'S OVERFLOW FITTING.
  2. WHEN PLAN GRADES DEPICT RUNOFF TO BE DIRECTED AWAY FROM THE CURB, USE DRAIN AWAY CURB ALTERNATE. (RE: "CURB DETAIL-BARRIER" P0009A00X DETAIL)

PROJECT NO.: GK1004299

**QuikTrip No. 4299**  
S.W.C. OF BAPTIST RD & TERRAZZO DR.  
MONUMENT, COLORADO



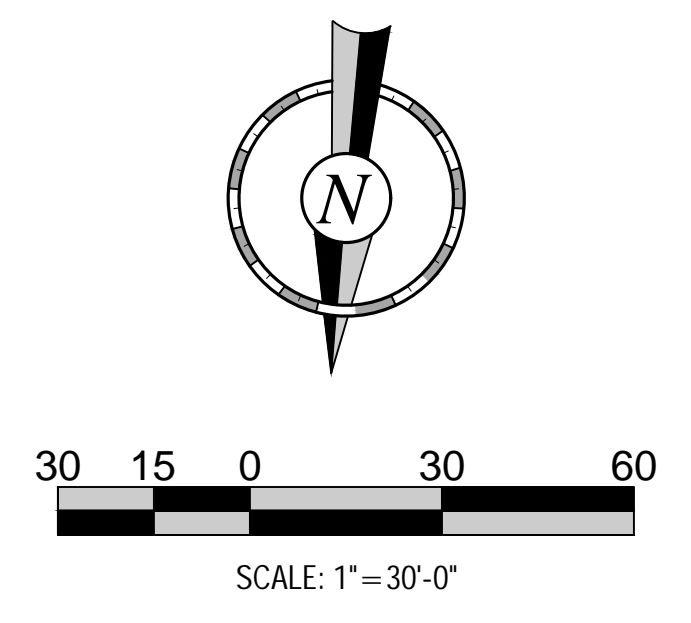
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DIVISION: 83  
VERSION: 001  
DESIGNED BY: DLR  
DRAWN BY: DLR  
REVIEWED BY: ACJ

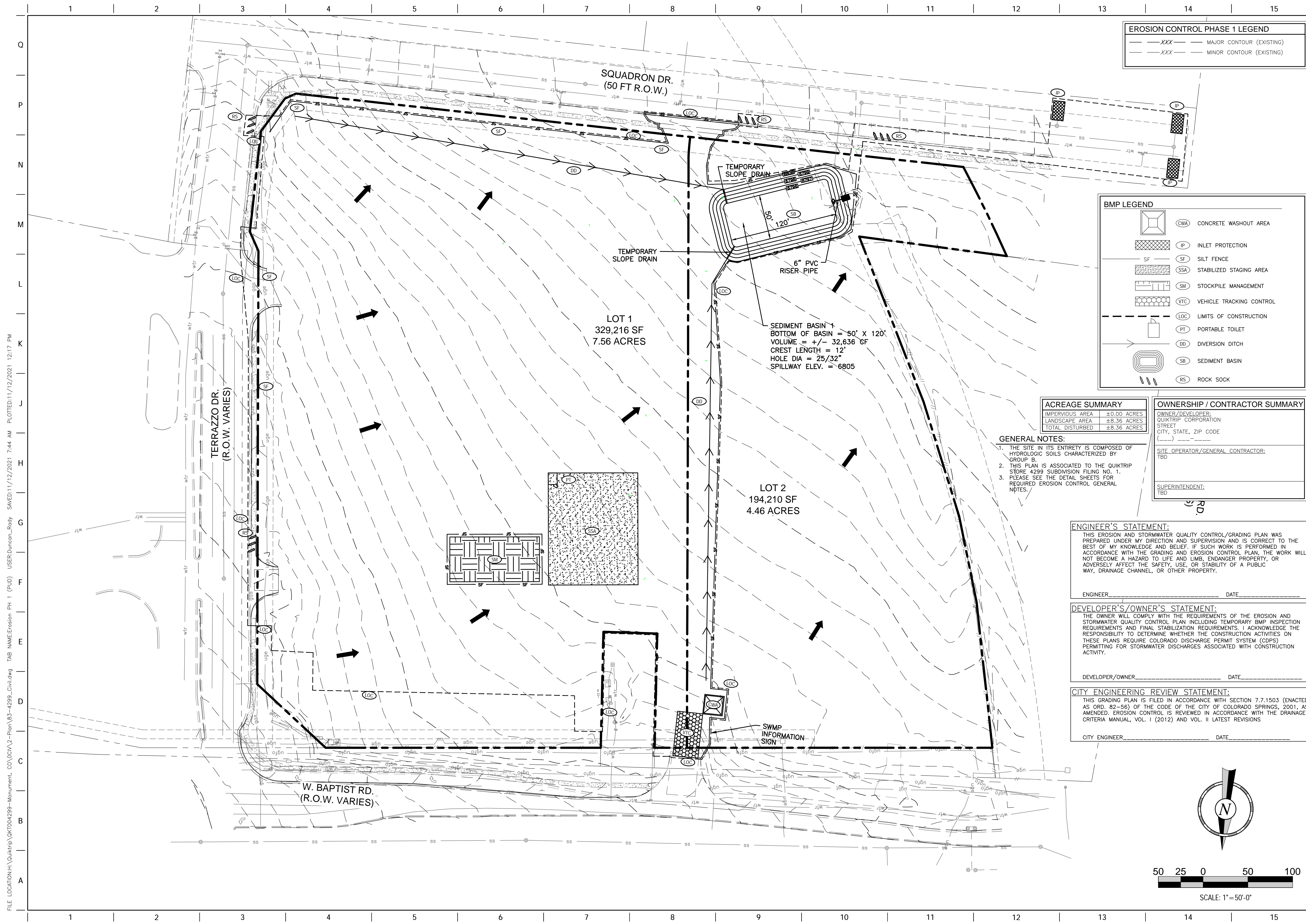
REV	DATE	DESCRIPTION

SHEET TITLE:  
GRADING PLAN (SOUTH)

SHEET NUMBER:  
**15**



MATCHLINE (SEE SHEET 14)



**EROSION CONTROL PHASE 1 LEGEND**

---XXX--- MAJOR CONTOUR (EXISTING)  
 ---XXX--- MINOR CONTOUR (EXISTING)

**BMP LEGEND**

	CWA CONCRETE WASHOUT AREA
	IP INLET PROTECTION
	SF SILT FENCE
	SSA STABILIZED STAGING AREA
	SM STOCKPILE MANAGEMENT
	VTC VEHICLE TRACKING CONTROL
	LOC LIMITS OF CONSTRUCTION
	PT PORTABLE TOILET
	DD DIVERSION DITCH
	SB SEDIMENT BASIN
	RS ROCK SOCK

**ACREAGE SUMMARY**

IMPERVIOUS AREA	±0.00 ACRES
LANDSCAPE AREA	±8.36 ACRES
TOTAL DISTURBED	±8.36 ACRES

**OWNERSHIP / CONTRACTOR SUMMARY**

OWNER/DEVELOPER:  
 QUIKTRIP CORPORATION  
 STREET \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

SITE OPERATOR/GENERAL CONTRACTOR:  
 TBD

SUPERINTENDENT:  
 TBD

- GENERAL NOTES:**
1. THE SITE IN ITS ENTIRETY IS COMPOSED OF HYDROLOGIC SOILS CHARACTERIZED BY GROUP B.
  2. THIS PLAN IS ASSOCIATED TO THE QUIKTRIP STORE 4299 SUBDIVISION FILING NO. 1.
  3. PLEASE SEE THE DETAIL SHEETS FOR REQUIRED EROSION CONTROL GENERAL NOTES.

**ENGINEER'S STATEMENT:**

THIS EROSION AND STORMWATER QUALITY CONTROL/GRADING PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. IF SUCH WORK IS PERFORMED IN ACCORDANCE WITH THE GRADING AND EROSION CONTROL PLAN, THE WORK WILL NOT BECOME A HAZARD TO LIFE AND LIMB, ENDANGER PROPERTY, OR ADVERSELY AFFECT THE SAFETY, USE, OR STABILITY OF A PUBLIC WAY, DRAINAGE CHANNEL, OR OTHER PROPERTY.

ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

**DEVELOPER'S/OWNER'S STATEMENT:**

THE OWNER WILL COMPLY WITH THE REQUIREMENTS OF THE EROSION AND STORMWATER QUALITY CONTROL PLAN INCLUDING TEMPORARY BMP INSPECTION REQUIREMENTS AND FINAL STABILIZATION REQUIREMENTS. I ACKNOWLEDGE THE RESPONSIBILITY TO DETERMINE WHETHER THE CONSTRUCTION ACTIVITIES ON THESE PLANS REQUIRE COLORADO DISCHARGE PERMIT SYSTEM (CDPS) PERMITTING FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.

DEVELOPER/OWNER \_\_\_\_\_ DATE \_\_\_\_\_

**CITY ENGINEERING REVIEW STATEMENT:**

THIS GRADING PLAN IS FILED IN ACCORDANCE WITH SECTION 7.7.1503 (ENACTED AS ORD. 82-56) OF THE CODE OF THE CITY OF COLORADO SPRINGS, 2001, AS AMENDED. EROSION CONTROL IS REVIEWED IN ACCORDANCE WITH THE DRAINAGE CRITERIA MANUAL, VOL. I (2012) AND VOL. II LATEST REVISIONS.

CITY ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

PROJECT NO.: QKT004299

**QuikTrip No. 4299**  
 S.W.C. OF BAPTIST RD & TERRAZZO DR.  
 MONUMENT, COLORADO



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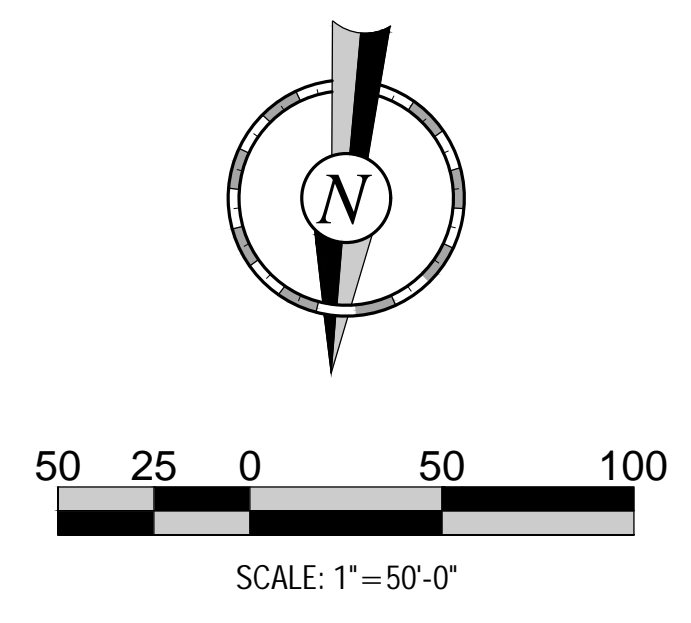
PROTOTYPE:	P-108 (11/01/21)
DIVISION:	83
VERSION:	D01
DESIGNED BY:	DLR
DRAWN BY:	DLR
REVIEWED BY:	ACJ

REV	DATE	DESCRIPTION

SHEET TITLE:  
**EROSION CONTROL PLAN**

SHEET NUMBER:  
**16**

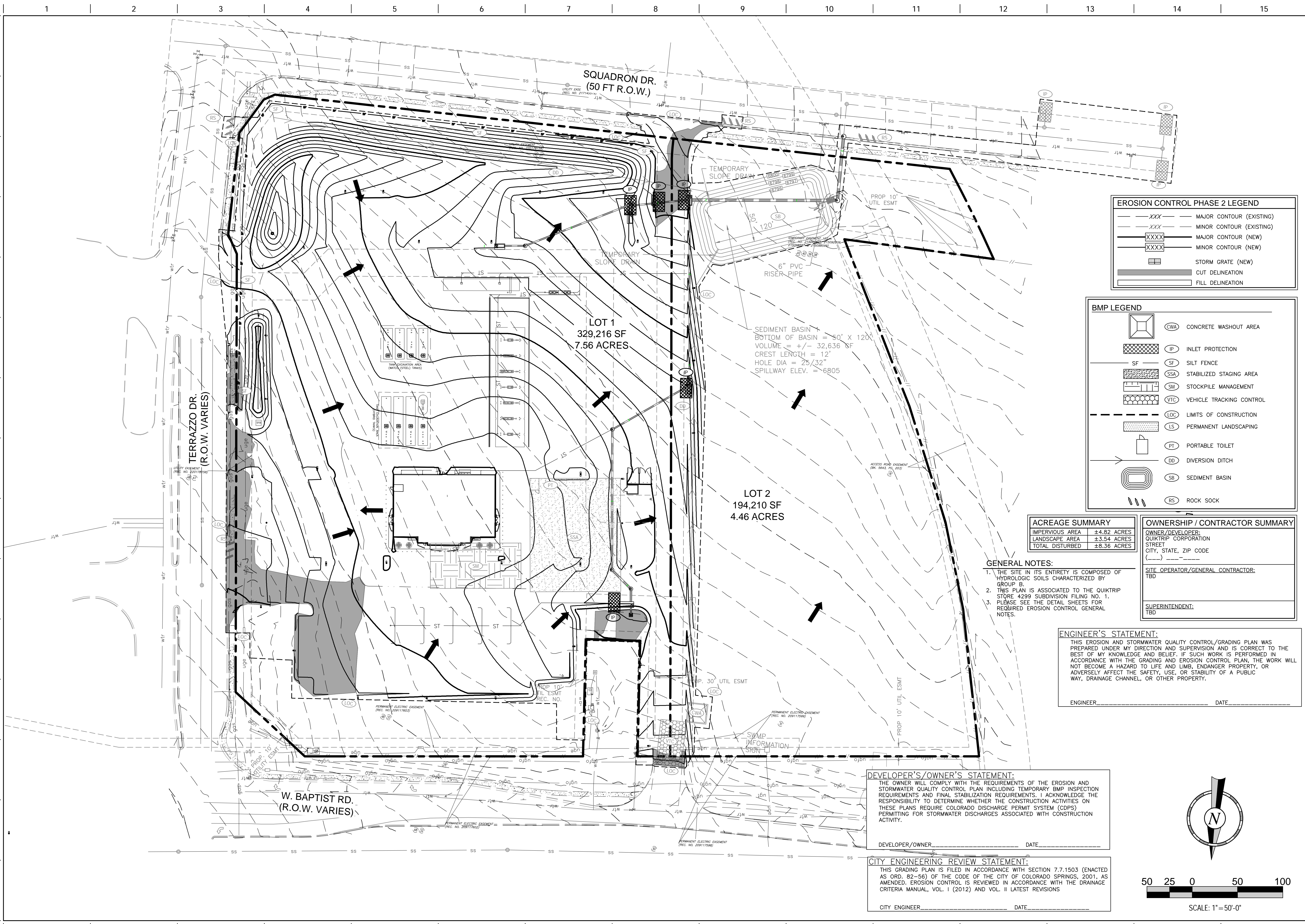
ORIGINAL ISSUE DATE: 9/24/2021



FILE LOCATION: \\Quiktrip\Quiktrip\QKT004299-Monument\_CO\CAD\2-Plan\82-4299\_Civil.dwg TAB NAME: Erosion PH 1 (PUD) USER: Durcan\_Rody SWED: 11/12/2021 7:44 AM PLOTTED: 11/12/2021 12:17 PM



FILE LOCATION: \\Quiktrip\GIS\Projects\4299-Monument\CD\CD\2-Plan\85-4299-Civil.dwg USER: duncan\_rody DATE: 11/12/2021 7:44 AM PLOTTED: 11/12/2021 12:17 PM



**EROSION CONTROL PHASE 2 LEGEND**

---XXX---	MAJOR CONTOUR (EXISTING)
---XXX---	MINOR CONTOUR (EXISTING)
---XXX---	MAJOR CONTOUR (NEW)
---XXX---	MINOR CONTOUR (NEW)
[Symbol]	STORM GRATE (NEW)
[Symbol]	CUT DELINEATION
[Symbol]	FILL DELINEATION

**BMP LEGEND**

[Symbol]	CWA	CONCRETE WASHOUT AREA
[Symbol]	IP	INLET PROTECTION
[Symbol]	SF	SILT FENCE
[Symbol]	SSA	STABILIZED STAGING AREA
[Symbol]	SM	STOCKPILE MANAGEMENT
[Symbol]	VTC	VEHICLE TRACKING CONTROL
[Symbol]	LOC	LIMITS OF CONSTRUCTION
[Symbol]	LS	PERMANENT LANDSCAPING
[Symbol]	PT	PORTABLE TOILET
[Symbol]	DD	DIVERSION DITCH
[Symbol]	SB	SEDIMENT BASIN
[Symbol]	RS	ROCK SOCK

**ACREAGE SUMMARY**

IMPERVIOUS AREA	±4.82 ACRES
LANDSCAPE AREA	±3.54 ACRES
TOTAL DISTURBED	±8.36 ACRES

**OWNERSHIP / CONTRACTOR SUMMARY**

OWNER/DEVELOPER:  
QUIKTRIP CORPORATION  
STREET  
CITY, STATE, ZIP CODE  
( )

SITE OPERATOR/GENERAL CONTRACTOR:  
TBD

SUPERINTENDENT:  
TBD

- GENERAL NOTES:**
1. THE SITE IN ITS ENTIRETY IS COMPOSED OF HYDROLOGIC SOILS CHARACTERIZED BY GROUP B.
  2. THIS PLAN IS ASSOCIATED TO THE QUIKTRIP STORE 4299 SUBDIVISION FILING NO. 1.
  3. PLEASE SEE THE DETAIL SHEETS FOR REQUIRED EROSION CONTROL GENERAL NOTES.

**ENGINEER'S STATEMENT:**

THIS EROSION AND STORMWATER QUALITY CONTROL/GRADING PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. IF SUCH WORK IS PERFORMED IN ACCORDANCE WITH THE GRADING AND EROSION CONTROL PLAN, THE WORK WILL NOT BECOME A HAZARD TO LIFE AND LIMB, ENDANGER PROPERTY, OR ADVERSELY AFFECT THE SAFETY, USE, OR STABILITY OF A PUBLIC WAY, DRAINAGE CHANNEL, OR OTHER PROPERTY.

ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

**DEVELOPER'S/OWNER'S STATEMENT:**

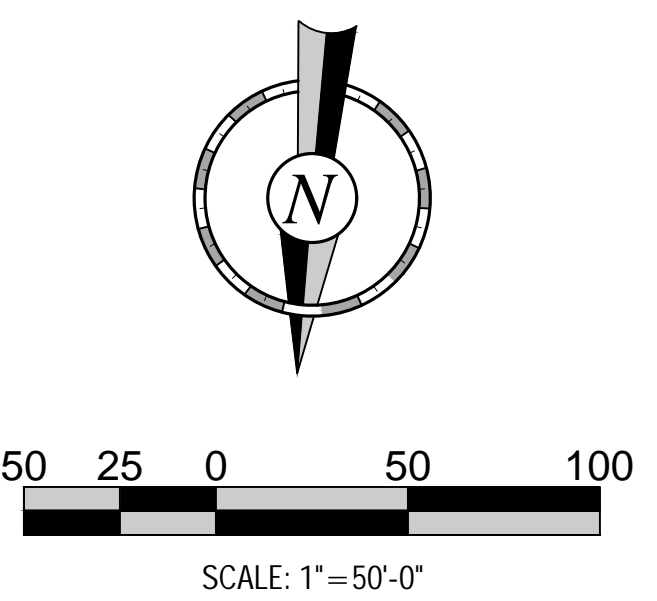
THE OWNER WILL COMPLY WITH THE REQUIREMENTS OF THE EROSION AND STORMWATER QUALITY CONTROL PLAN INCLUDING TEMPORARY BMP INSPECTION REQUIREMENTS AND FINAL STABILIZATION REQUIREMENTS. I ACKNOWLEDGE THE RESPONSIBILITY TO DETERMINE WHETHER THE CONSTRUCTION ACTIVITIES ON THESE PLANS REQUIRE COLORADO DISCHARGE PERMIT SYSTEM (CDPS) PERMITTING FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.

DEVELOPER/OWNER \_\_\_\_\_ DATE \_\_\_\_\_

**CITY ENGINEERING REVIEW STATEMENT:**

THIS GRADING PLAN IS FILED IN ACCORDANCE WITH SECTION 7.7.1503 (ENACTED AS ORD. 82-56) OF THE CODE OF THE CITY OF COLORADO SPRINGS, 2001, AS AMENDED. EROSION CONTROL IS REVIEWED IN ACCORDANCE WITH THE DRAINAGE CRITERIA MANUAL, VOL. I (2012) AND VOL. II LATEST REVISIONS

CITY ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



PROJECT NO.: OKT004299

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EROSION CONTROL PLAN

SHEET NUMBER:

17

ORIGINAL ISSUE DATE: 9/24/2021

FILE LOCATION: H:\Quiktrip\00100299-Monument\_CO\00V\3-CD\DETAILS\MISC. SITE.dwg TAB NAME: EROSION CONTROL SHEET 1 USER: Duneson, Rody SAVED: 11/10/2021 8:22 AM PLOTTED: 11/12/2021 12:17 PM

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### Stockpile Management (SP) MM-2

**STOCKPILE PROTECTION PLAN**

**SECTION A**

**SP-1. STOCKPILE PROTECTION**

**STOCKPILE PROTECTION INSTALLATION NOTES**

- SEE PLAN VIEW FOR:
  - LOCATION OF STOCKPILES
  - TYPE OF STOCKPILE PROTECTION
- INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS. HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIPS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
- STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING. EROSION CONTROL BLANKETS OR SOIL BINDERS. SOIL STOCKPILES FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDING AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
- FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNSTREAM CONTROLS INCLUDING PERIMETER CONTROLS ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

November 2010      Urban Drainage and Flood Control District      SP-3  
Urban Storm Drainage Criteria Manual Volume 3

### MM-2      Stockpile Management (SM)

**STOCKPILE PROTECTION MAINTENANCE NOTES**

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

**STOCKPILE PROTECTION MAINTENANCE NOTES**

- IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.
- STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.

(DETAILS ADAPTED FROM PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

November 2010      Urban Drainage and Flood Control District      SP-4  
Urban Storm Drainage Criteria Manual Volume 3

### Stockpile Management (SP) MM-2

**SP-2. MATERIALS STAGING IN ROADWAY**

**MATERIALS STAGING IN ROADWAYS INSTALLATION NOTES**

- SEE PLAN VIEW FOR:
  - LOCATION OF MATERIAL STAGING AREAS
  - CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
- FEATURE MUST BE INSTALLED PRIOR TO EXCAVATION, EARTHWORK OR DELIVERY OF MATERIALS.
- MATERIALS MUST BE STATIONED ON THE POLY LINER. ANY INCIDENTAL MATERIALS DEPOSITED ON PAVED SECTION OR ALONG CURB LINE MUST BE CLEANED UP PROMPTLY.
- POLY LINER AND TARP COVER SHOULD BE OF SIGNIFICANT THICKNESS TO PREVENT DAMAGE OR LOSS OF INTEGRITY.
- SAND BAGS MAY BE SUBSTITUTED TO ANCHOR THE COVER TARP OR PROVIDE BERMING UNDER THE BASE LINER.
- FEATURE IS NOT INTENDED FOR USE WITH WET MATERIAL THAT WILL BE DRAINING AND/OR SPREADING OUT ON THE POLY LINER OR FOR DEMOLITION MATERIALS.
- THIS FEATURE CAN BE USED FOR:
  - UTILITY REPAIRS
  - WHEN OTHER STAGING LOCATIONS AND OPTIONS ARE LIMITED
  - OTHER LIMITED APPLICATION AND SHORT DURATION STAGING.

November 2010      Urban Drainage and Flood Control District      SP-5  
Urban Storm Drainage Criteria Manual Volume 3

### MM-2      Stockpile Management (SM)

**MATERIALS STAGING IN ROADWAY MAINTENANCE NOTES**

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- INSPECT PVC PIPE ALONG CURB LINE FOR CLOGGING AND DEBRIS. REMOVE OBSTRUCTIONS PROMPTLY.
- CLEAN MATERIAL FROM PAVED SURFACES BY SWEEPING OR VACUUMING.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM PARKER, COLORADO)

November 2010      Urban Drainage and Flood Control District      SP-6  
Urban Storm Drainage Criteria Manual Volume 3

**GENERAL NOTES:**

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS.
- CONCRETE WASH WATER SHALL NOT BE DISCHARGED TO OR ALLOWED TO RUNOFF TO THE MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4).
- BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMPs MAY BE REQUIRED BY THE MS4 PERMITTEE IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES (E.G., ESTIMATED TIME OF EXPOSURE, SEASON OF THE YEAR, ETC.).
- VEHICLE TRACKING OF SOILS OFF-SITE SHALL BE MINIMIZED.
- ALL WASTES COMPOSED OF BUILDING MATERIALS MUST BE REMOVED FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- NO CHEMICALS ARE TO BE ADDED TO THE DISCHARGE UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED BY THE STATE. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE SECONDARY CONTAINMENT OR EQUIVALENT ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING THE MS4, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
- ALL PERSONS ENGAGED IN EARTH DISTURBANCE SHALL IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BMPs IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE DRAINAGE CRITERIA MANUAL, VOLUME 2 AND IN ACCORDANCE WITH THE APPROVED EROSION AND STORMWATER QUALITY CONTROL PLAN APPROVED BY THE MS4 PERMITTEE, IF REQUIRED.
- ALL TEMPORARY EROSION CONTROL FACILITIES INCLUDING BMPs AND ALL PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF ANY EARTH DISTURBANCE OPERATIONS, SHALL BE INSTALLED AS DEFINED IN THE APPROVED EROSION AND STORMWATER QUALITY CONTROL PLAN AND THE DRAINAGE CRITERIA MANUAL, VOLUME 2 AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION. THE INSTALLATION OF THE FIRST LEVEL OF TEMPORARY EROSION CONTROL FACILITIES AND BMPs SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY EARTH DISTURBANCE OPERATIONS TAKING PLACE.
- ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION.
- ALL EARTH DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED IN SUCH A MANNER SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF
- ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- SUSPENDED SEDIMENT CAUSED BY ACCELERATED SOIL EROSION SHALL BE MINIMIZED IN RUNOFF WATER BEFORE IT LEAVES THE SITE OF THE EARTH DISTURBANCE. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE DISCHARGE TO A NON-EROSIVE VELOCITY.
- TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND EARTH DISTURBANCE AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURSUANT TO THE STANDARDS AND SPECIFICATIONS PRESCRIBED IN THE DRAINAGE CRITERIA MANUAL, VOLUME 2, AND IN ACCORDANCE WITH THE PERMANENT EROSION CONTROL FEATURES SHOWN ON THE APPROVED EROSION AND STORMWATER QUALITY CONTROL PLANS, IF REQUIRED.
- SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN TWENTY-ONE (21) CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE, HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AS IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SEEDING. ON A CASE-BY-CASE BASIS, THE MS4 PERMITTEE MAY ALLOW ANOTHER APPROPRIATE BMP TO BE IN PLACE THAT PREVENTS SEDIMENT FROM LEAVING THE SITE. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMPs SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED.
- NO PERSON SHALL CAUSE, PERMIT, OR CONTRIBUTE TO THE DISCHARGE INTO THE MUNICIPAL SEPARATE STORM SEWER POLLUTANTS THAT COULD CAUSE THE MS4 PERMITTEE TO BE IN VIOLATION OF ITS COLORADO DISCHARGE PERMIT SYSTEM MS4 PERMIT.
- THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER, INCLUDING THE TEMPORARY OR PERMANENT RAMPING WITH MATERIALS FOR VEHICLE ACCESS.
- INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT"(TITLE 25, ARTICLE 8, CRS) AND THE "CLEAN WATER ACT"(33 USC 1344), REGULATIONS PROMULGATED, CERTIFICATIONS OR PERMITS ISSUED, IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE DRAINAGE CRITERIA MANUAL, VOLUME 2. IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND WATER QUALITY CONTROL LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL OR STATE AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS. MATERIALS SHALL NOT BE STORED IN A LOCATION WHERE THEY MAY BE CARRIED BY STORMWATER RUNOFF INTO THE MS4 AT ANY TIME.
- SPILL PREVENTION AND CONTAINMENT MEASURES SHALL BE USED AT STORAGE, AND EQUIPMENT FUELING AND SERVICING AREAS TO PREVENT POLLUTION FROM DISCHARGING TO THE MS4. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY, OR CONTAINED UNTIL APPROPRIATE CLEANUP METHODS CAN BE EMPLOYED. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE FOLLOWED, ALONG WITH PROPER DISPOSAL METHODS.

PROJECT NO.: OK1004299

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EROSION CONTROL DETAILS

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**SC-6 Inlet Protection (IP)**

**IP-1. BLOCK AND ROCK SOCK SUMP OR ON GRADE INLET PROTECTION**

**BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES**

- SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
- CONCRETE "CINDER" BLOCKS SHALL BE Laid ON THEIR SIZES AROUND THE INLET IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB.
- GRAVEL BAGS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINTED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.

**IP-2. CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION**

**CURB ROCK SOCK INLET PROTECTION INSTALLATION NOTES**

- SEE ROCK SOCK DESIGN DETAIL INSTALLATION REQUIREMENTS.
- PLACEMENT OF THE SOCK SHALL BE APPROXIMATELY 30 DEGREES FROM PERPENDICULAR IN THE OPPOSITE DIRECTION OF FLOW.
- SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 3 FEET APART.
- AT LEAST TWO CURB SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.

IP-4 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 August 2013

**Inlet Protection (IP) SC-6**

**IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION**

**ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES**

- SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
- STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.

**IP-4. SILT FENCE FOR SUMP INLET PROTECTION**

**SILT FENCE INLET PROTECTION INSTALLATION NOTES**

- SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
- POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF 3 FEET.
- STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF SILT FENCE FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.

August 2013 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 IP-5

**SC-6 Inlet Protection (IP)**

**GENERAL INLET PROTECTION INSTALLATION NOTES**

- SEE PLAN VIEW FOR:
  - LOCATION OF INLET PROTECTION.
  - TYPE OF INLET PROTECTION (IP-1, IP-2, IP-3, IP-4, IP-5, IP-6)
- INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS) IF A RAINFALL/RUNOFF EVENT IS FORECAST. INSTALL INLET PROTECTION PRIOR TO ONSET OF EVENT.
- MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

**INLET PROTECTION MAINTENANCE NOTES**

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED AS NECESSARY TO MAINTAIN BMP EFFECTIVENESS. TYPICALLY WHEN STORAGE VOLUME REACHES SIZE OF CAPACITY, A DEPTH OF 6" WHEN SILT FENCE IS USED, OR 1/4 OF THE HEIGHT FOR STRAW BALES.
- INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED, UNLESS THE LOCAL JURISDICTION APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.
- WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

**NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.**

**NOTE: SOME MUNICIPALITIES DISCOURAGE OR PROHIBIT THE USE OF STRAW BALES FOR INLET PROTECTION. CHECK WITH LOCAL JURISDICTION TO DETERMINE IF STRAW BALE INLET PROTECTION IS ACCEPTABLE.**

IP-8 Urban Drainage and Flood Control District  
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**SC-5 Rock Sock (RS)**

**ROCK SOCK SECTION**

**ROCK SOCK PLAN**

**ROCK SOCK JOINTING**

**ROCK SOCK INSTALLATION NOTES**

- SEE PLAN VIEW FOR:
  - LOCATIONS OF ROCK SOCKS.
- CRUSHED ROCK SHALL BE 1 1/2" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (1/8" MINUS).
- WIRE MESH SHALL BE FABRICATED OF 1/2" GAGE POULTRY MESH OR EQUIVALENT WITH A MAXIMUM OPENING OF 1/2". RECOMMENDED MINIMUM ROLL WIDTH OF 48".
- WIRE MESH SHALL BE SECURED USING "WOOD BRUSH" OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2' CENTERS ON ENDS OF SOCKS.
- SOME MUNICIPALITIES MAY ALLOW THE USE OF FILTER FABRIC AS AN ALTERNATIVE TO WIRE MESH FOR THE ROCK ENCLOSURE.

**RS-1. ROCK SOCK PERIMETER CONTROL**

GRADATION TABLE	
SIETVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES
NO. 4	
2"	100
1 1/2"	90 - 100
1"	20 - 35
3/4"	0 - 15
3/8"	0 - 5

MATCHES SPECIFICATIONS FOR NO. 4 COARSE AGGREGATE FOR CONCRETE PER AASHTO M43. ALL ROCK SHALL BE FRACTURED FACE. ALL SIDES.

RS-2 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 November 2010

**Rock Sock (RS) SC-5**

**ROCK SOCK MAINTENANCE NOTES**

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED/BEYOND REPAIR.
- SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/3 OF THE HEIGHT OF THE ROCK SOCK.
- ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
- WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

**NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF ROCK SOCK INSTALLATION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY PROTECTION PRODUCTS; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.**

November 2010 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 RS-3

**Stabilized Staging Area (SSA) SM-6**

**SSA-1. STABILIZED STAGING AREA**

**STABILIZED STAGING AREA INSTALLATION NOTES**

- SEE PLAN VIEW FOR:
  - LOCATION OF STAGING AREA(S).
  - CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
- STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
- STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
- THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
- UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, ASPHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

**STABILIZED STAGING AREA MAINTENANCE NOTES**

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SHALL BE REPLACED OR REGRADED AS NECESSARY IF BUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

November 2010 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 SSA-3

**SM-6 Stabilized Staging Area (SSA)**

**STABILIZED STAGING AREA MAINTENANCE NOTES**

- STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
- THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

**NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.**

**NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.**

(DETAILS ADAPTED FROM SOULAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

SSA-4 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 November 2010

PROJECT NO.: 0K1004299

**QuikTrip No. 4299**  
S.W.C. OF BAPTIST RD & TERRAZZO DR.  
MONUMENT, COLORADO

**QT**

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EROSION CONTROL DETAILS

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19

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### Vehicle Tracking Control (VTC) SM-4

**VTC-1. AGGREGATE VEHICLE TRACKING CONTROL**

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-3

### SM-4 Vehicle Tracking Control (VTC)

**STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES**

- SEE PLAN VIEW FOR:
  - LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S)
  - TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM)
- CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
- A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
- UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, ASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

**STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES**

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SHALL BE REAPPLIED OR REGRASSED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
- SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

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### Concrete Washout Area (CWA) MM-1

**CWA-1. CONCRETE WASHOUT AREA**

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CWA-3

### MM-1 Concrete Washout Area (CWA)

**CWA MAINTENANCE NOTES**

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS ACCUMULATED IN PIT SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2".
- CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
- THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
- WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CWA-4

### SM-3 Construction Fence (CF)

**CF-1. PLASTIC MESH CONSTRUCTION FENCE**

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CF-2

### SM-3 Construction Fence (CF)

**CONSTRUCTION FENCE MAINTENANCE NOTES**

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- CONSTRUCTION FENCE SHALL BE REPAIRED OR REPLACED WHEN THERE ARE SIGNS OF DAMAGE SUCH AS RIPS OR SAGS. CONSTRUCTION FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
- WHEN CONSTRUCTION FENCES ARE REMOVED, ALL DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE FENCE SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CF-3

### Silt Fence (SF) SC-1

**SF-1. SILT FENCE**

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SF-3

### SC-1 Silt Fence (SF)

**SILT FENCE INSTALLATION NOTES**

- SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.
- A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE, NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.
- COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTERS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
- SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
- SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.
- AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK". THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNNER FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').
- SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

**SILT FENCE MAINTENANCE NOTES**

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".
- REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
- SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
- WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SF-4

PROJECT NO.: 0K1004299

**QuikTrip No. 4299**  
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EROSION CONTROL DETAILS

SHEET NUMBER:

20

ORIGINAL ISSUE DATE: 9/24/2021

Sediment Basin (SB) SC-7

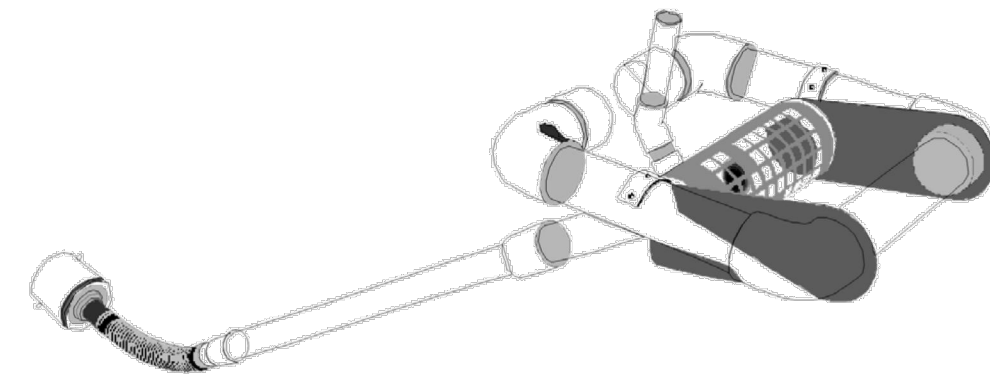


Illustration SB-1. Outlet structure for a temporary sediment basin - Faircloth Skimmer Floating Outlet. Illustration courtesy of J. W. Faircloth & Sons, Inc., FairclothSkimmer.com.

- Outlet Protection and Spillway: Consider all flow paths for runoff leaving the basin, including protection at the typical point of discharge as well as overtopping. Outlet Protection: Outlet protection should be provided where the velocity of flow will exceed the maximum permissible velocity of the material of the waterway into which discharge occurs. Emergency Spillway: Provide a stabilized emergency overflow spillway for rainstorms that exceed the capacity of the sediment basin volume and its outlet.

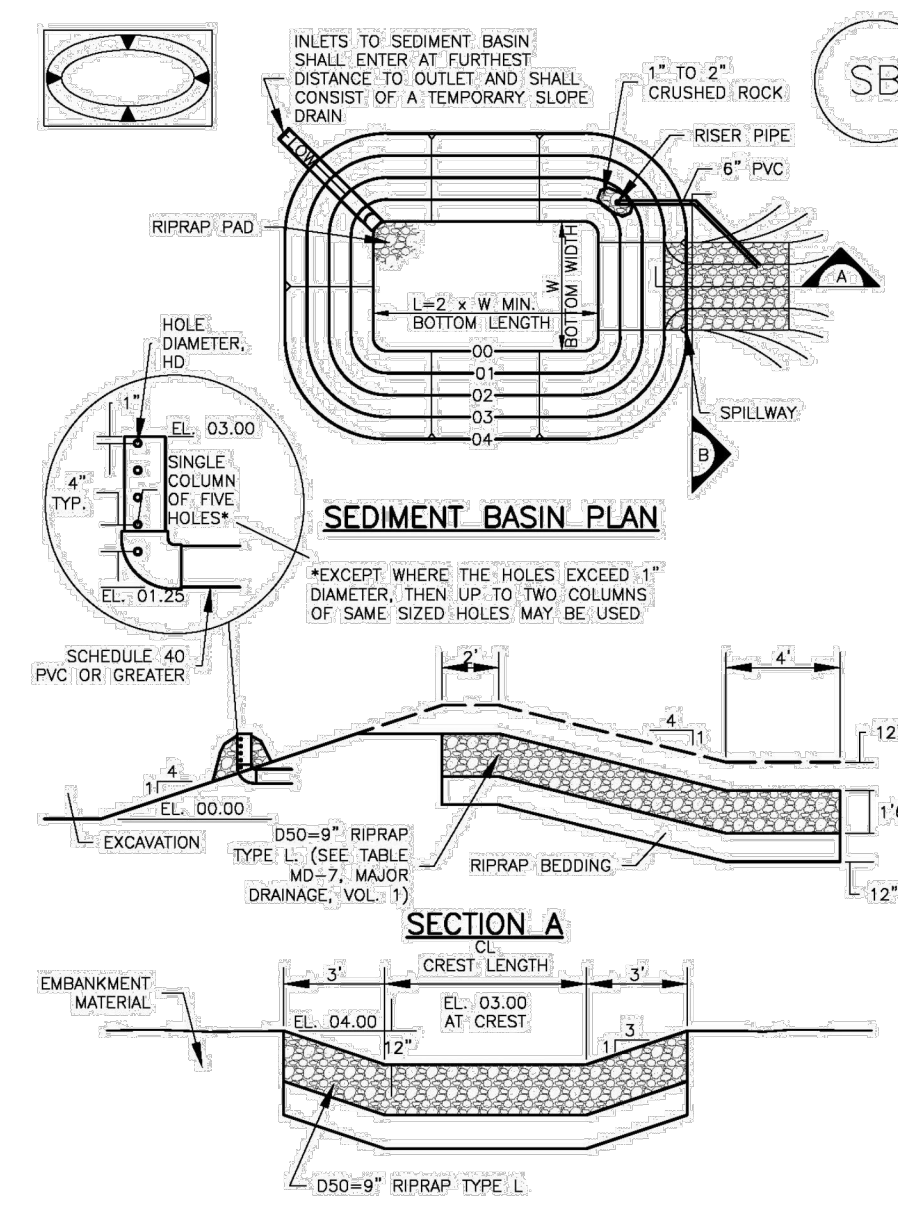
August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SB-3

SC-7 Sediment Basin (SB)

Maintenance and Removal: Maintenance activities include the following: Dredge sediment from the basin, as needed to maintain BMP effectiveness... Inspect the sediment basin embankments for stability and seepage... Be aware that removal of a sediment basin may require dewatering and associated permit requirements.

SB-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

Sediment Basin (SB) SC-7



August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SB-5

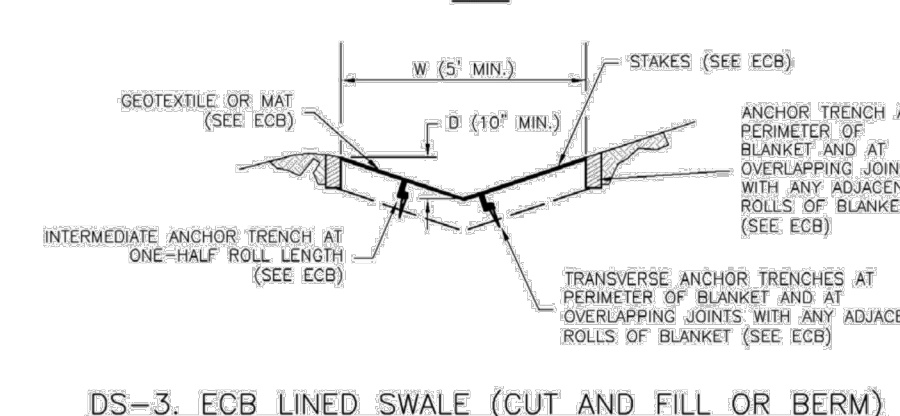
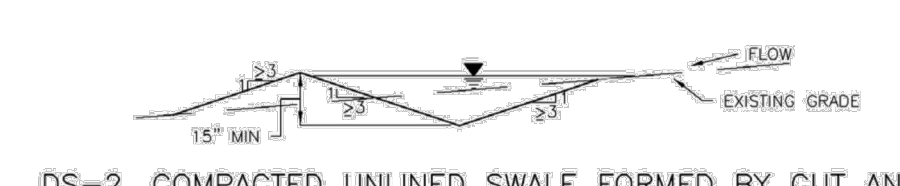
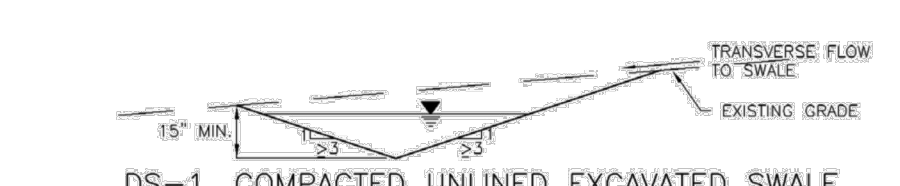
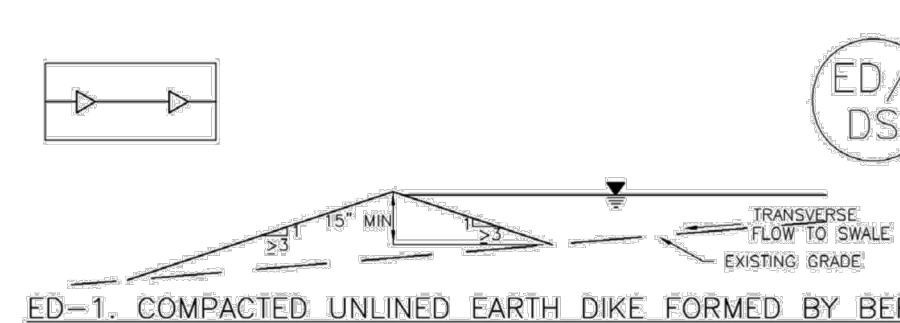
SC-7 Sediment Basin (SB)

Table SB-1, SIZING INFORMATION FOR STANDARD SEDIMENT BASIN. Columns: Upstream Drainage Area, Basin Bottom Width, Spillway Crest Length, Hole Diameter.

- SEDIMENT BASIN INSTALLATION NOTES: 1. SEE PLAN VIEW FOR: LOCATION OF SEDIMENT BASIN, TYPE OF BASIN, TYPE OF EMBANKMENT MATERIAL, EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS... 2. FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.

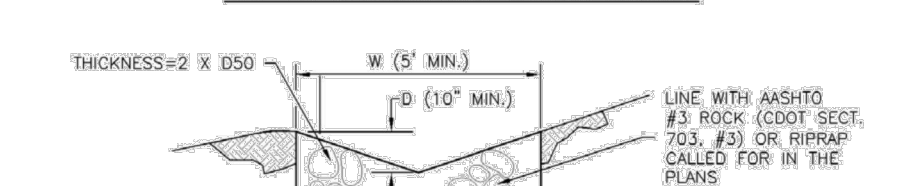
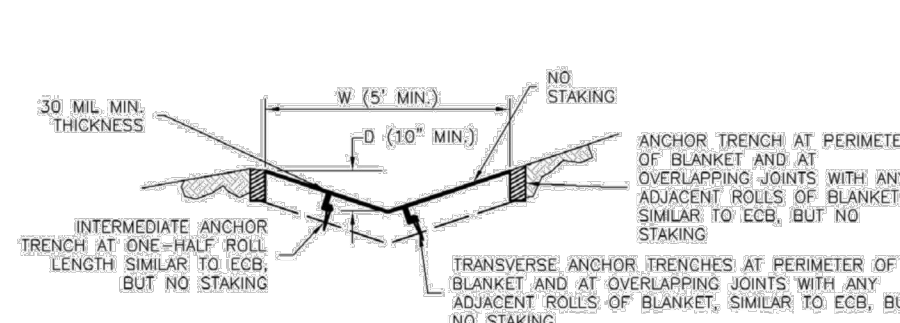
SB-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

Earth Dikes and Drainage Swales (ED/DS) EC-10



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 ED/DS-3

EC-10 Earth Dikes and Drainage Swales (ED/DS)



- EARTH DIKE AND DRAINAGE SWALE INSTALLATION NOTES: 1. SEE SITE PLAN FOR: LOCATION OF DIVERSION SWALE, TYPE OF SWALE, LENGTH OF EACH SWALE, DEPTH, S, AND WIDTH, W DIMENSIONS... 2. SEE DRAINAGE PLANS FOR DETAILS OF PERMANENT CONVEYANCE FACILITIES AND/OR DIVERSION SWALES EXCEEDING 2-YEAR FLOW RATE OR 10 CFS.

ED/DS-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Earth Dikes and Drainage Swales (ED/DS) EC-10

- EARTH DIKE AND DRAINAGE SWALE MAINTENANCE NOTES: 1. INSPECT BMPs EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION... 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION... 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

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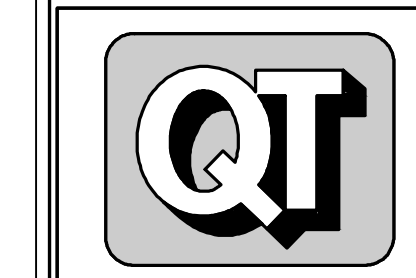
Sediment Basin (SB) SC-7

- SEDIMENT BASIN MAINTENANCE NOTES: 1. INSPECT BMPs EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION... 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION... 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SB-7

PROJECT NO.: OK1004299

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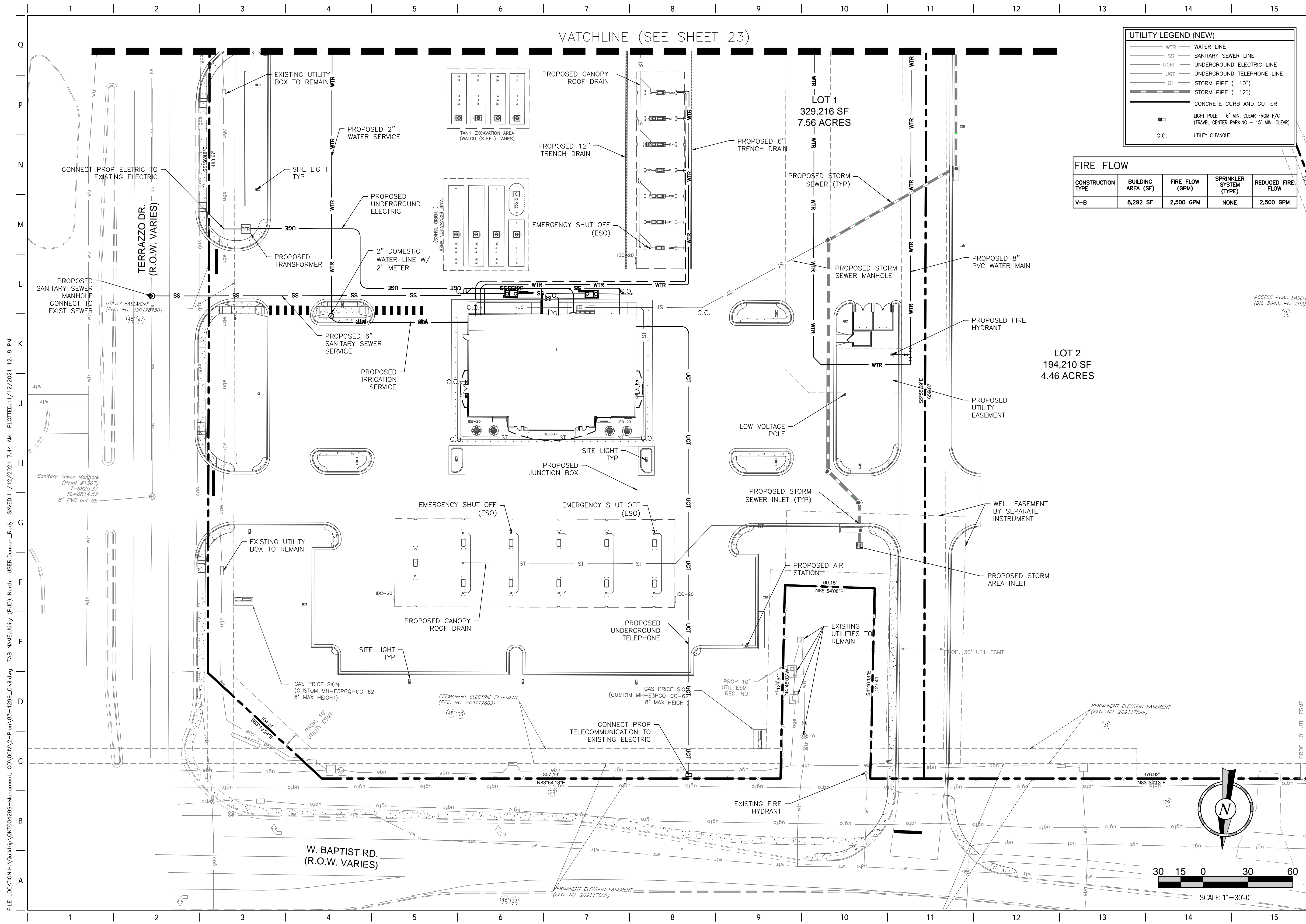


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SHEET TITLE: EROSION CONTROL DETAILS

SHEET NUMBER: 21



**UTILITY LEGEND (NEW)**

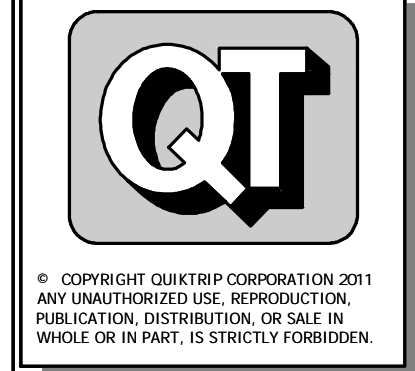
- WTR — WATER LINE
- SS — SANITARY SEWER LINE
- UGET — UNDERGROUND ELECTRIC LINE
- UGT — UNDERGROUND TELEPHONE LINE
- ST — STORM PIPE ( 10" )
- ST — STORM PIPE ( 12" )
- CONCRETE CURB AND GUTTER
- ☐ LIGHT POLE - 6' MIN. CLEAR FROM F/C (TRAVEL CENTER PARKING - 15' MIN. CLEAR)
- C.O. UTILITY CLEANOUT

**FIRE FLOW**

CONSTRUCTION TYPE	BUILDING AREA (SF)	FIRE FLOW (GPM)	SPRINKLER SYSTEM (TYPE)	REDUCED FIRE FLOW
V-B	8,292 SF	2,500 GPM	NONE	2,500 GPM

PROJECT NO.: QKT004299

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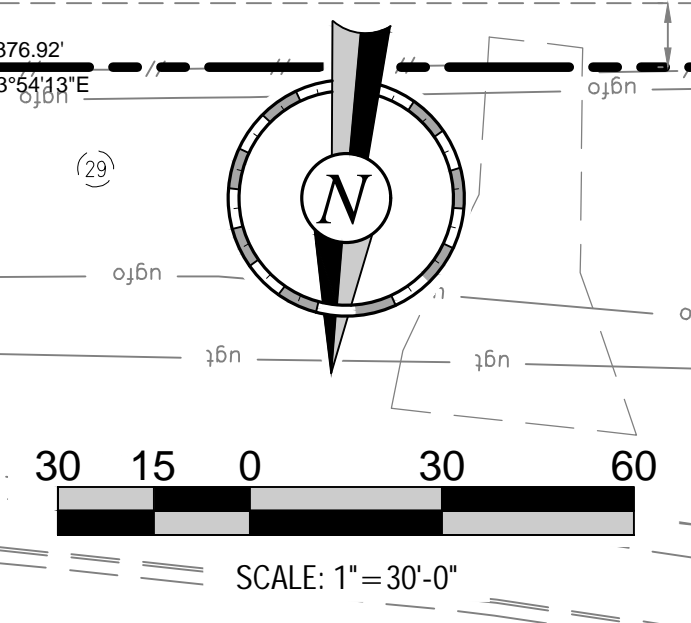
PROTOTYPE: P-108 (11/01/21)  
DIVISION: 83  
VERSION: 001  
DESIGNED BY: DLR  
DRAWN BY: DLR  
REVIEWED BY: ACJ

REV	DATE	DESCRIPTION

SHEET TITLE:  
**UTILITY PLAN (NORTH)**

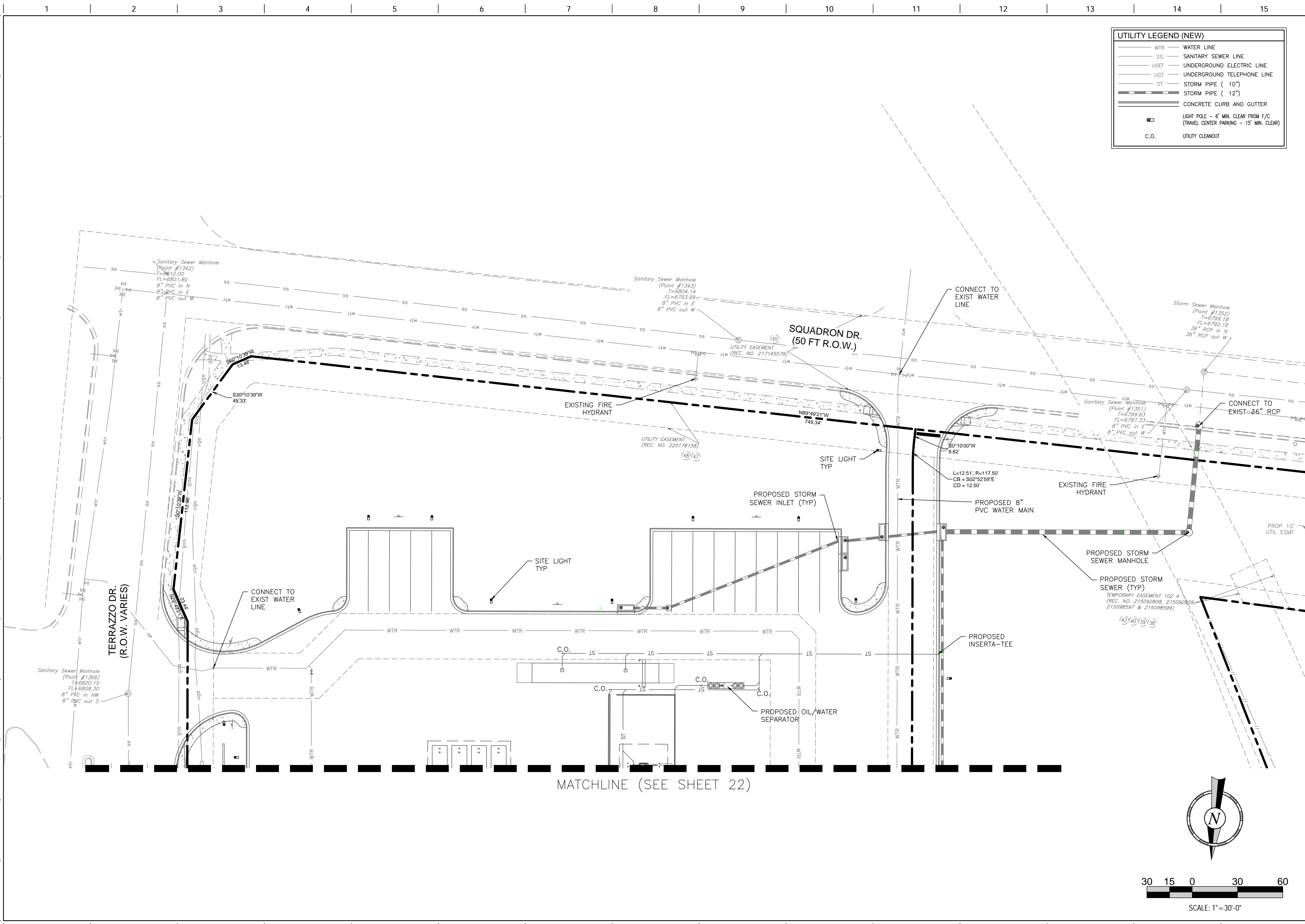
SHEET NUMBER:  
**22**

ORIGINAL ISSUE DATE: 9/24/2021



FILE LOCATION: \\H:\QuikTrip\QKT004299-Monument, CO\CV\2-Plan\85-4299\_Civil.dwg USER: Duncan, Rody SAVED: 11/12/2021 7:44 AM PLOTTED: 11/12/2021 12:18 PM

FILE LOCATION: H:\QuikTrip\QuikTrip\04299-Monument\CD\CD\2-Plan\85-4299\_Civil.dwg USER: Duncanson, Rody SAVED: 11/12/2021 7:44 AM PLOTTED: 11/12/2021 12:18 PM

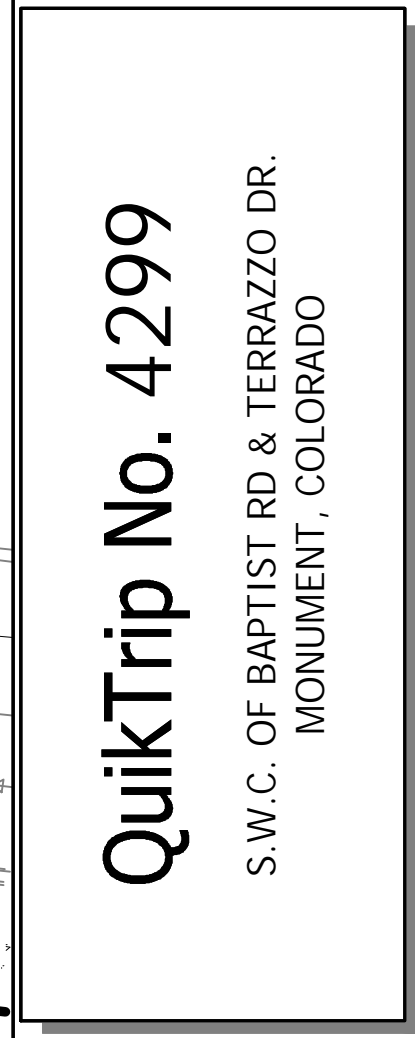


**UTILITY LEGEND (NEW)**

- WTR — WATER LINE
- SS — SANITARY SEWER LINE
- UGET — UNDERGROUND ELECTRIC LINE
- UGT — UNDERGROUND TELEPHONE LINE
- ST — STORM PIPE ( 10" )
- ST — STORM PIPE ( 12" )
- CONCRETE CURB AND GUTTER
- ☐ LIGHT POLE - 6' MIN. CLEAR FROM F/C (TRAVEL CENTER PARKING - 15' MIN. CLEAR)
- C.O. UTILITY CLEANOUT

PROJECT NO.: QKT004299

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MONUMENT, COLORADO



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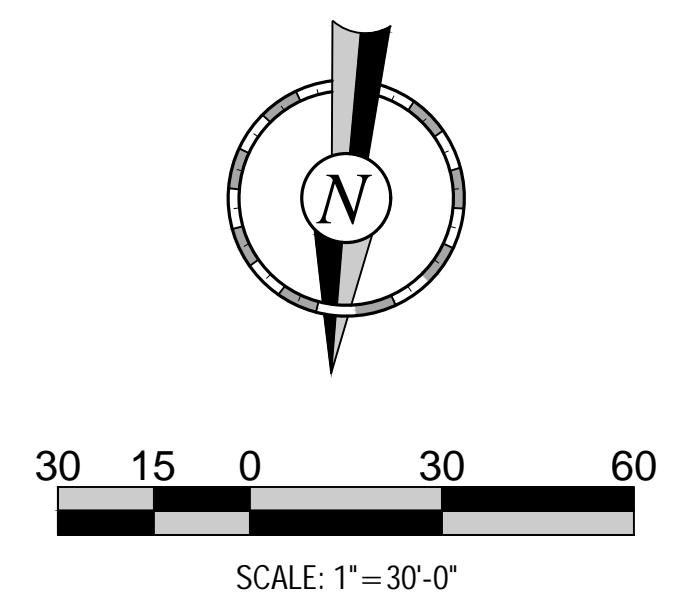
PROTOTYPE:	P-108 (11/01/21)
DIVISION:	83
VERSION:	001
DESIGNED BY:	DLR
DRAWN BY:	DLR
REVIEWED BY:	ACJ

REV	DATE	DESCRIPTION

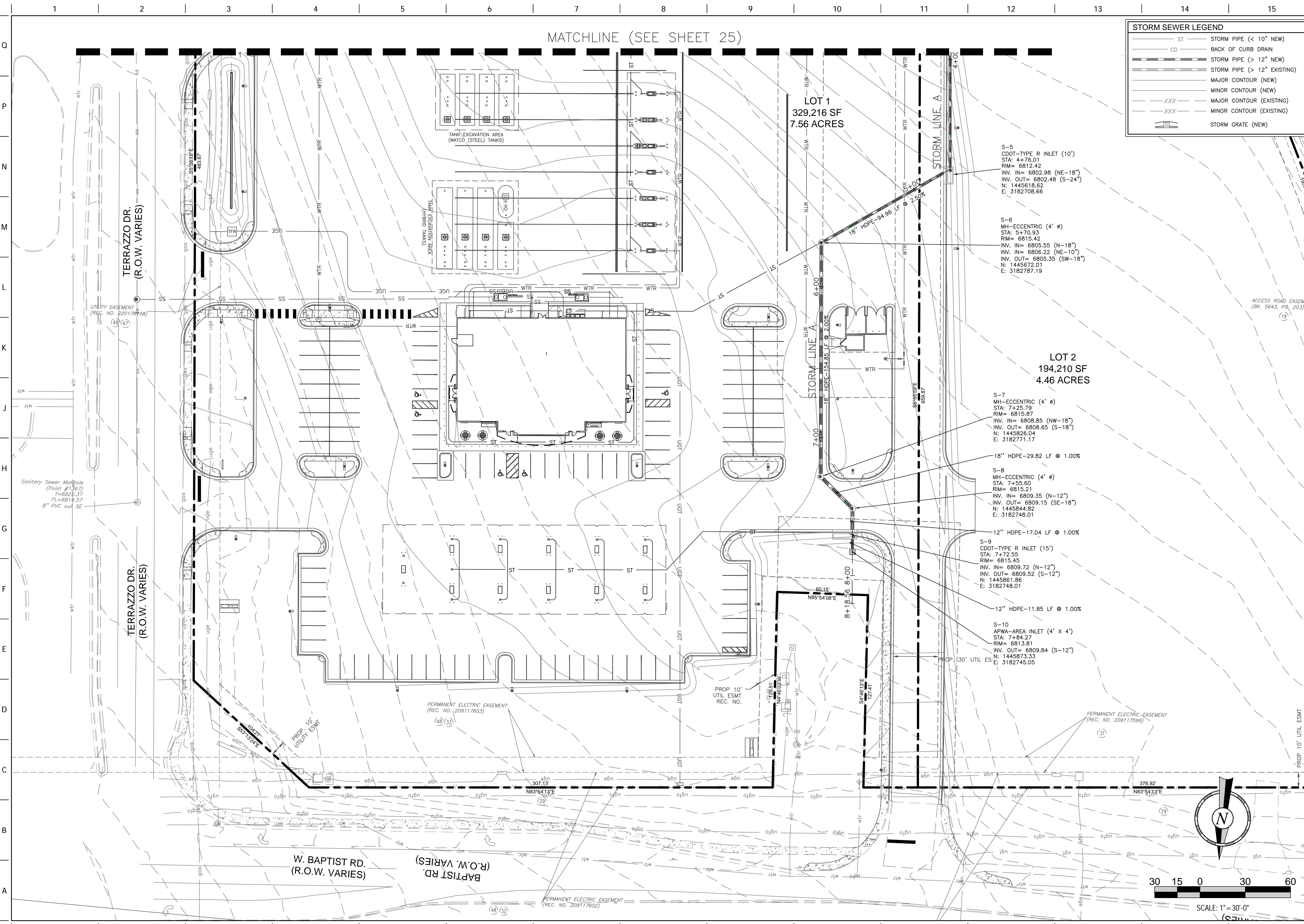
ORIGINAL ISSUE DATE: 9/24/2021

SHEET TITLE:  
UTILITY PLAN (SOUTH)

SHEET NUMBER:  
**23**



FILE LOCATION: \\HR\QuikTrip\QuikTrip\01004299-Monument\CD\CD\2-Plan\85-4299\_Civil.dwg USRR\Duncan\_Rody SAVED: 11/12/2021 7:44 AM PLOTTED: 11/12/2021 12:19 PM



**STORM SEWER LEGEND**

- ST STORM PIPE (< 10" NEW)
- CD BACK OF CURB DRAIN
- STORM PIPE (> 12" NEW)
- STORM PIPE (> 12" EXISTING)
- MAJOR CONTOUR (NEW)
- MINOR CONTOUR (NEW)
- MAJOR CONTOUR (EXISTING)
- MINOR CONTOUR (EXISTING)
- STORM GRATE (NEW)

PROJECT NO.: 01004299

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**QT**

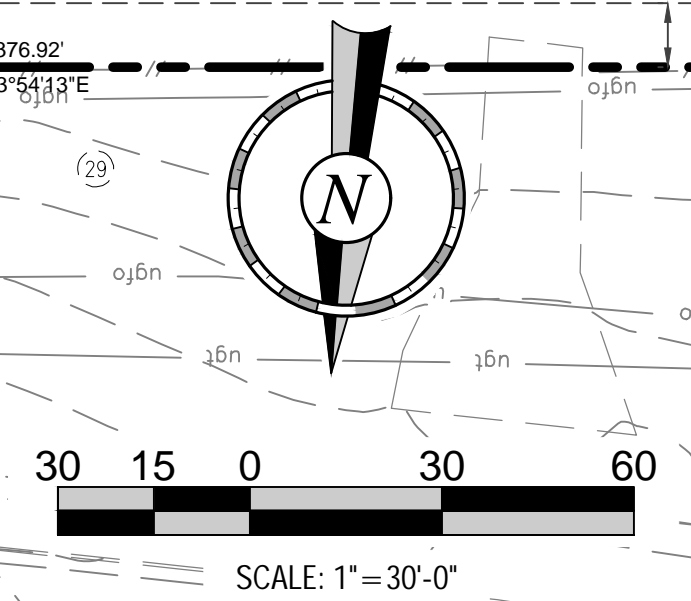
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PROTOTYPE:	P-108 (11/01/21)
DIVISION:	83
VERSION:	D01
DESIGNED BY:	DLR
DRAWN BY:	DLR
REVIEWED BY:	ACJ

REV	DATE	DESCRIPTION

SHEET TITLE:  
**STORM PLAN (NORTH)**

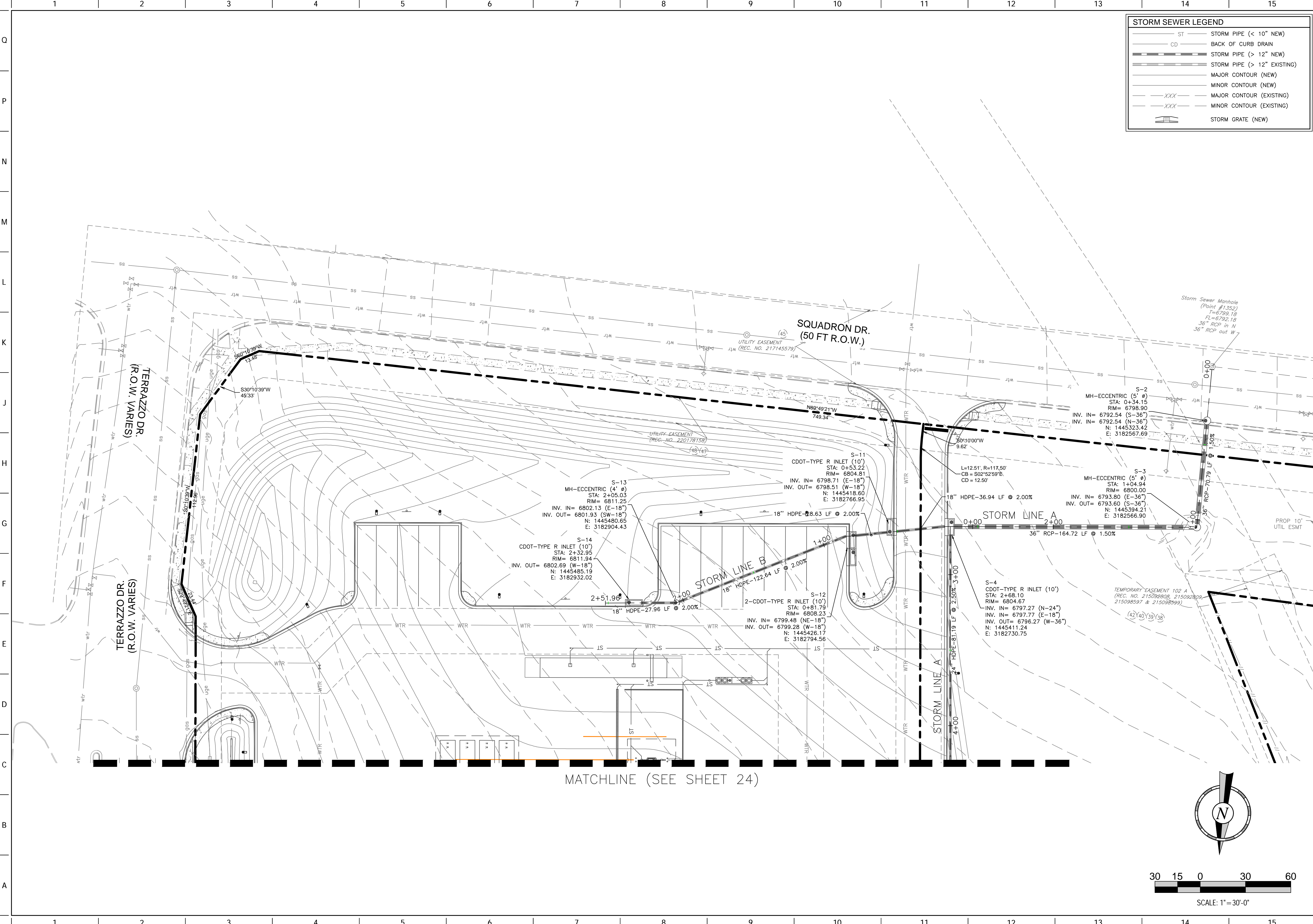
SHEET NUMBER:  
**24**



ORIGINAL ISSUE DATE: 9/24/2021



FILE LOCATION: \\H:\QuikTrip\QuikTrip\04299-Monument\CD\CD\2-Plan\85-4299-Civil.dwg USER: Duncan\_Body SOUTH DATE: 11/12/2021 7:44 AM PLOTTED: 11/12/2021 12:19 PM



**STORM SEWER LEGEND**

- ST STORM PIPE (< 10" NEW)
- CD BACK OF CURB DRAIN
- STORM PIPE (> 12" NEW)
- STORM PIPE (> 12" EXISTING)
- MAJOR CONTOUR (NEW)
- MINOR CONTOUR (NEW)
- XXX--- MAJOR CONTOUR (EXISTING)
- XXX--- MINOR CONTOUR (EXISTING)
- STORM GRATE (NEW)

PROJECT NO.: QKT004299

**QuikTrip No. 4299**  
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**QT**

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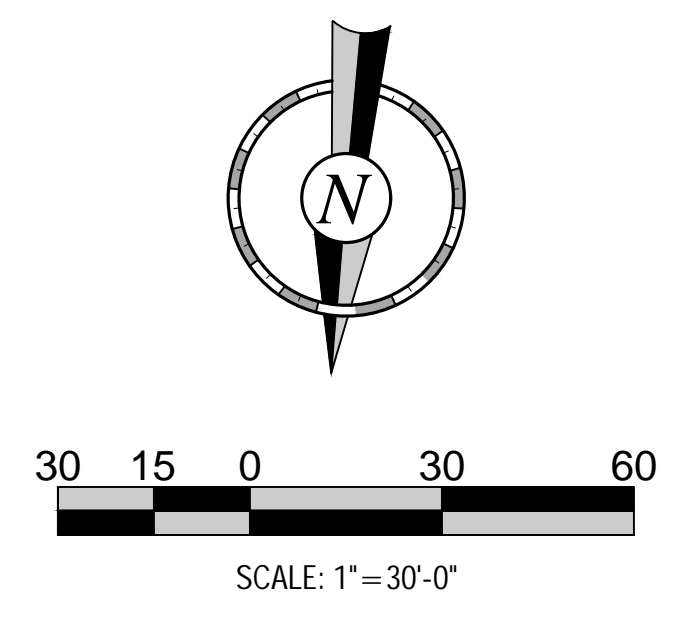
PROTOTYPE: P-108 (11/01/21)  
DIVISION: 83  
VERSION: 001  
DESIGNED BY: DLR  
DRAWN BY: DLR  
REVIEWED BY: ACJ

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 9/24/2021

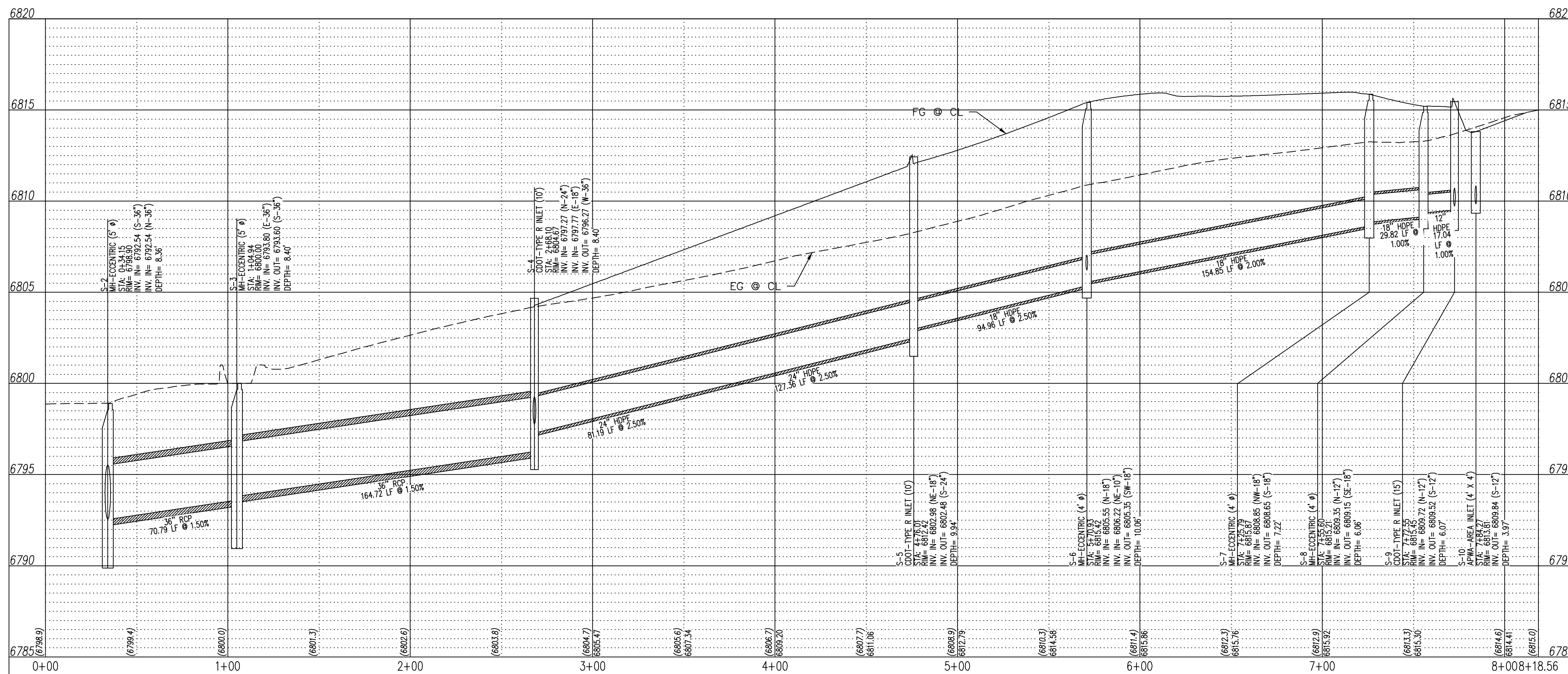
SHEET TITLE:  
**STORM PLAN (SOUTH)**

SHEET NUMBER:  
**25**

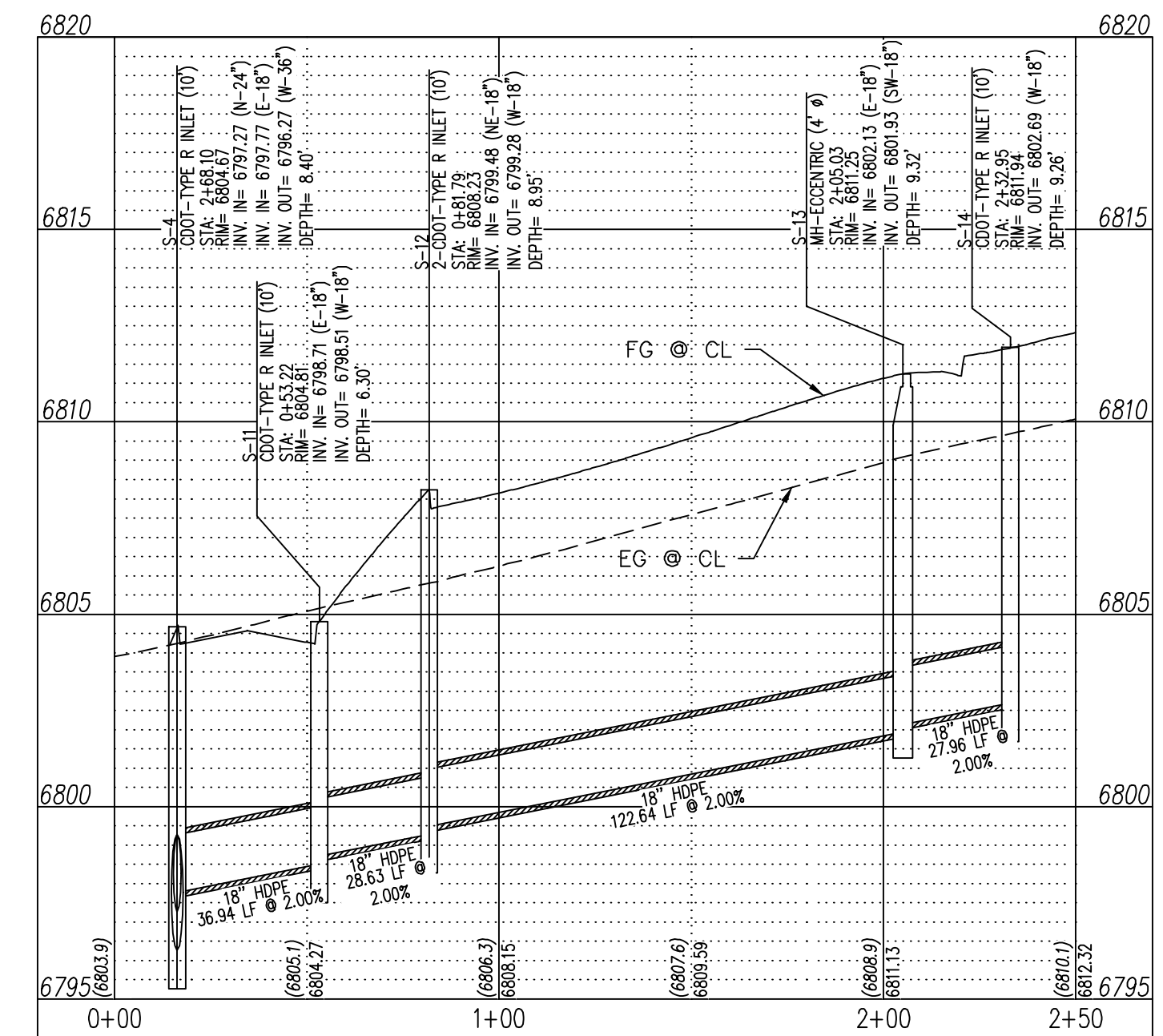


MATCHLINE (SEE SHEET 24)

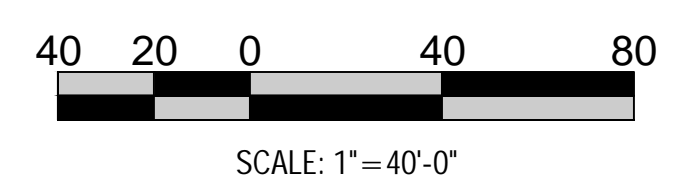
FILE LOCATION: \\Quiktrip\Quiktrip\GK1004299-Monument, CO\CV\2-Plan\85-4299\_Civil.dwg USER: Duncan\_Roady SAVEd: 11/12/2021 7:44 AM PLOTTED: 11/12/2021 12:19 PM



STORM LINE A  
STA: 0+00 - 8+18.56  
SCALE: H: 1"=40' V: 1"=4'



STORM LINE B  
STA: 0+00 - 2+50  
SCALE: H: 1"=40' V: 1"=4'



PROJECT NO.: GK1004299

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DIVISION:	83
VERSION:	D01
DESIGNED BY:	DLR
DRAWN BY:	DLR
REVIEWED BY:	ACJ

REV	DATE	DESCRIPTION

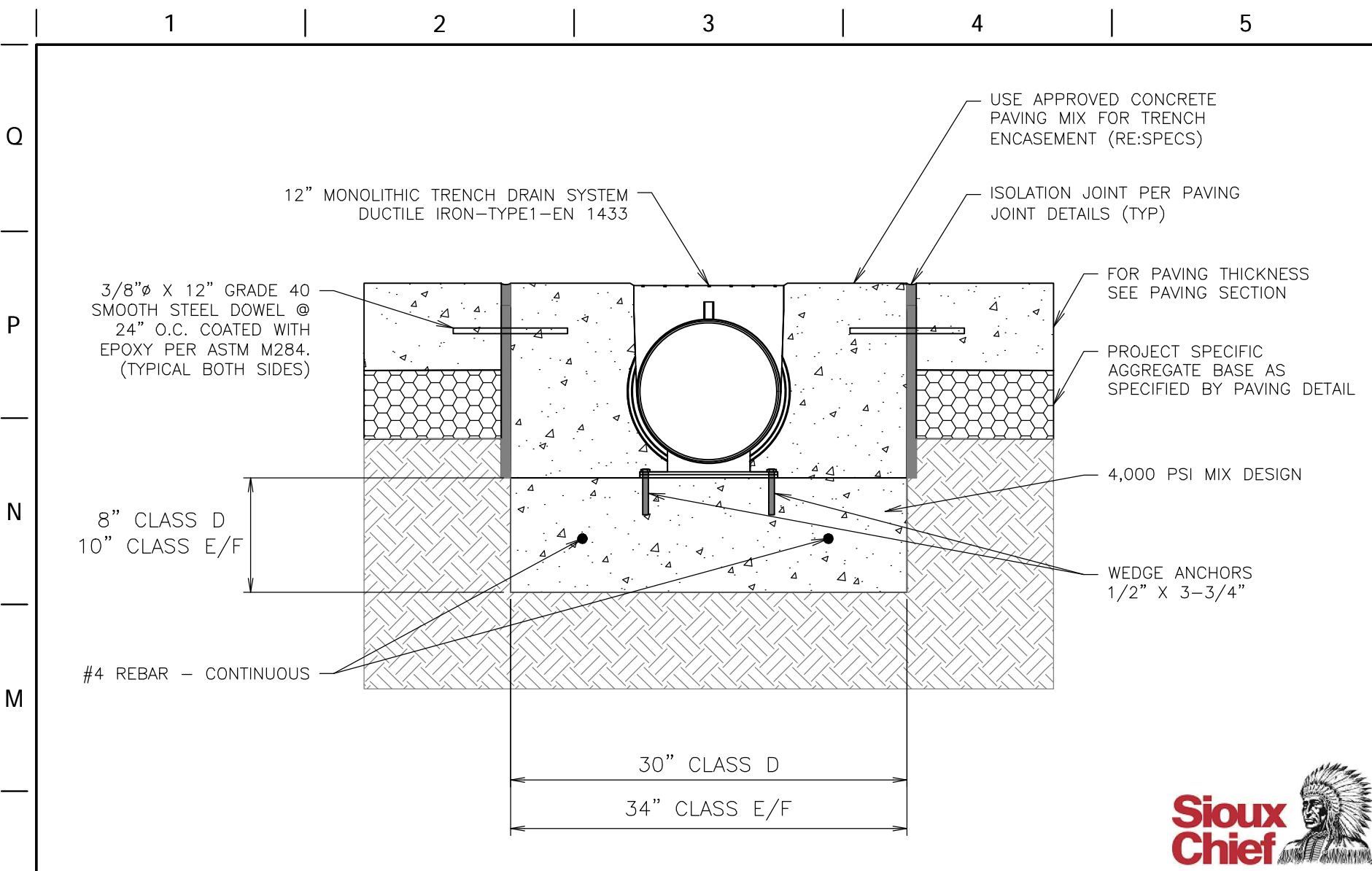
SHEET TITLE:  
STORM PROFILES

SHEET NUMBER:

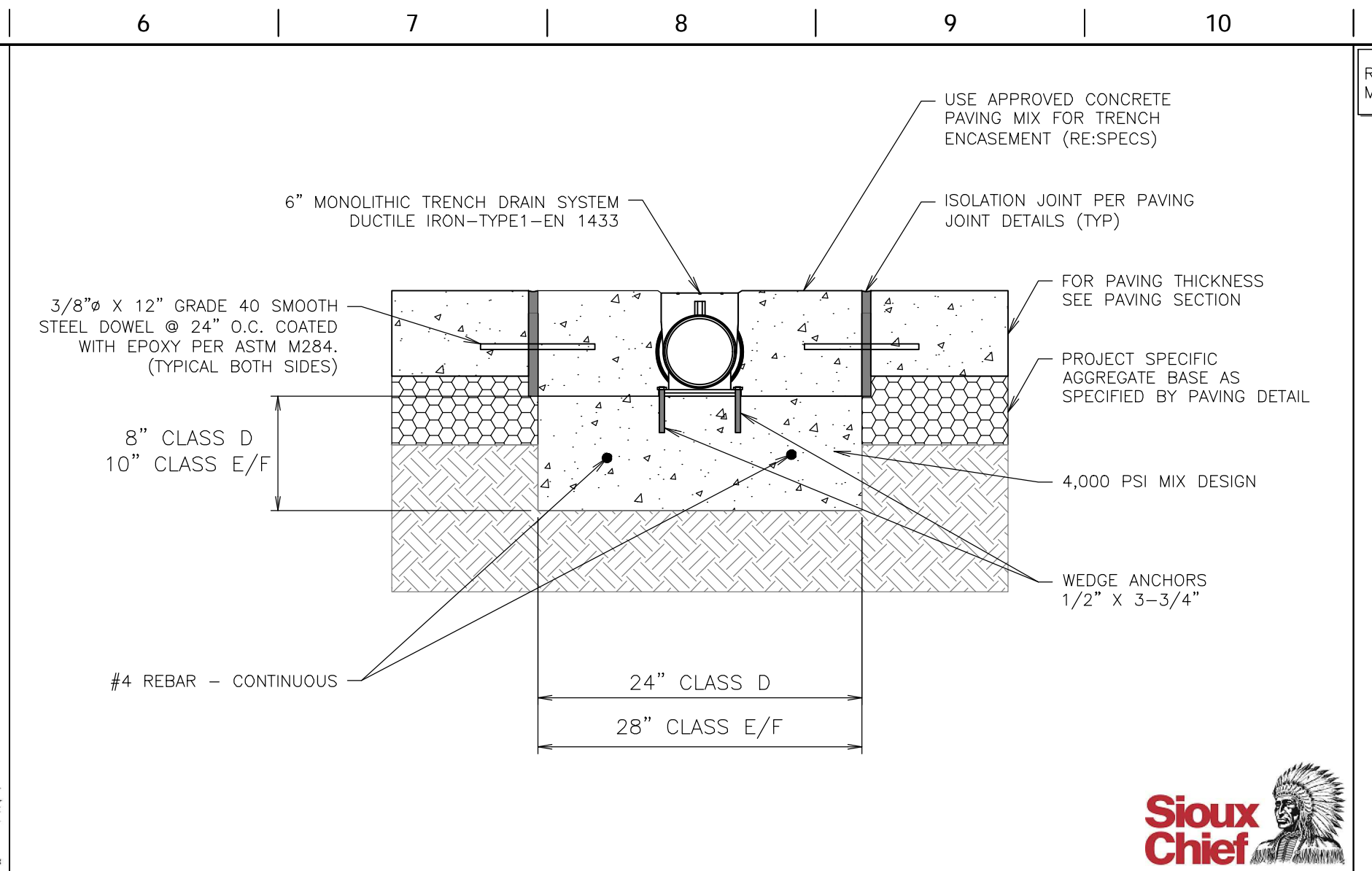
26

ORIGINAL ISSUE DATE: 9/24/2021

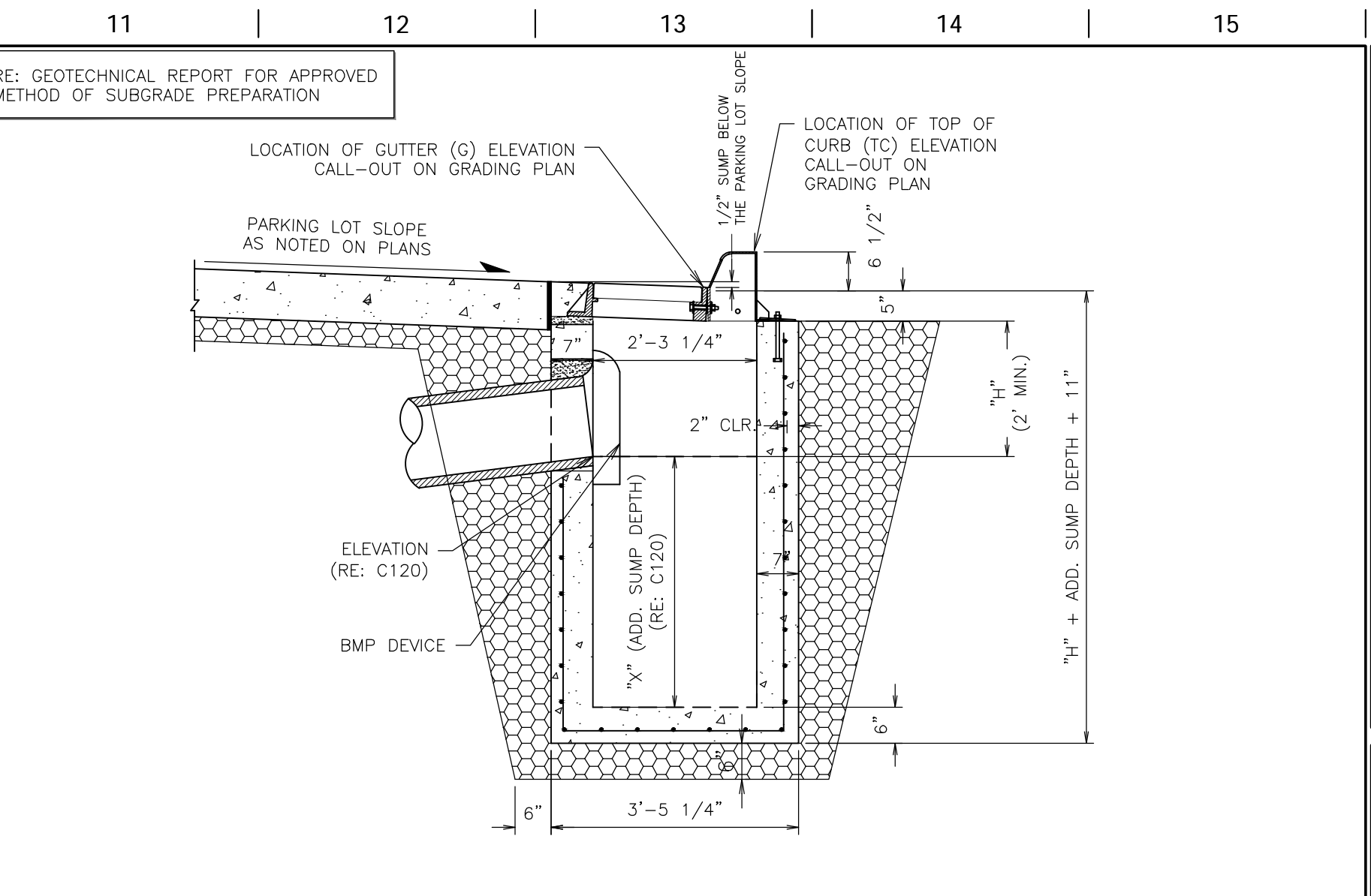
FILE LOCATION: \\\QuikTrip\QuikTrip\QKT004299-Monument, CO\DWG\3-C\DETAILS\Drainage\Sheet 3 USER: Duncanson, Rody SA: WED 11/11/2021 2:28 PM PLOTTED: 11/12/2021 12:19 PM



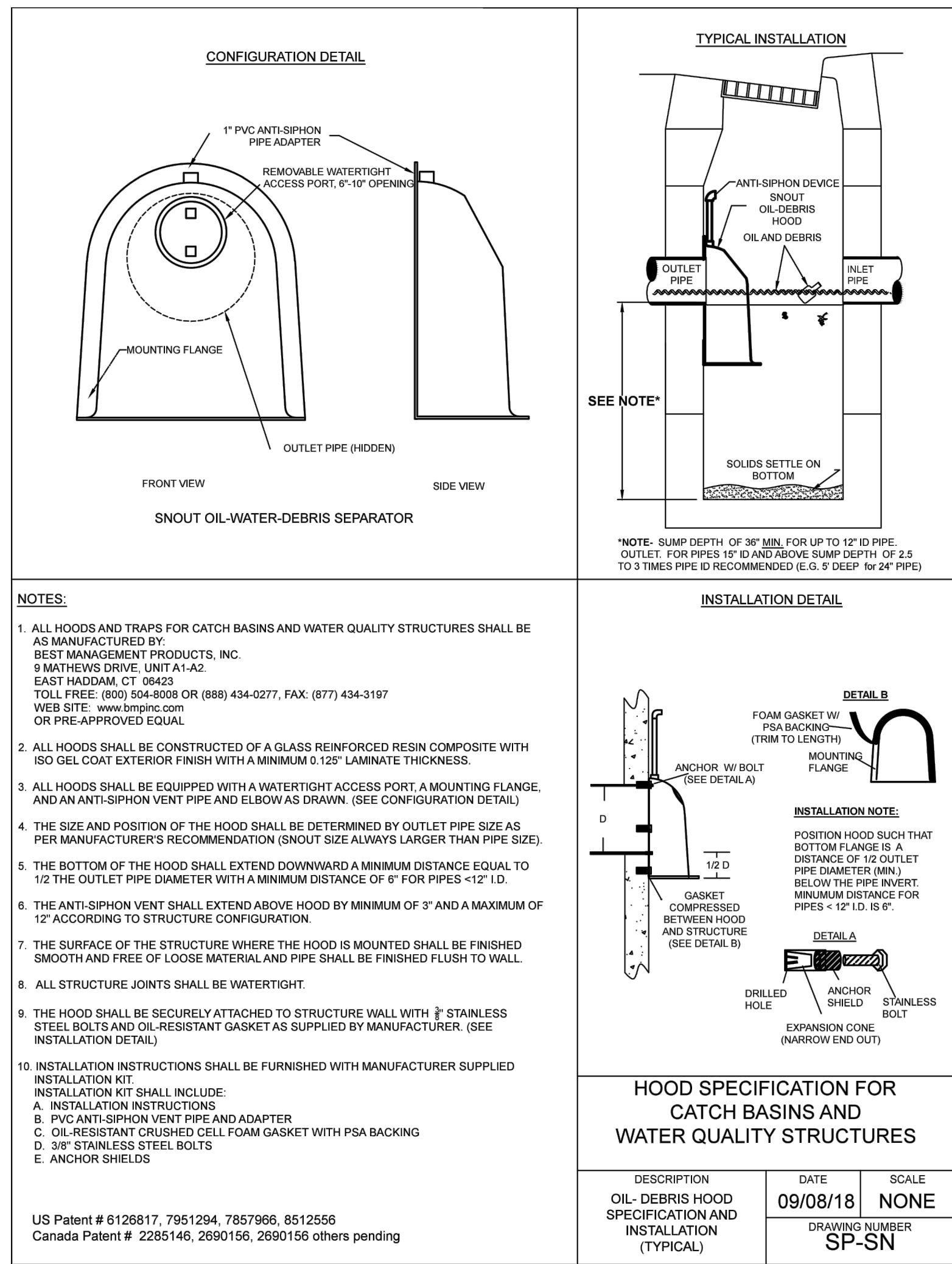
**L1** 12" HYDROTECH HYDROBLOCK 300 ADA TRENCH DRAIN  
 NTS SN: DD030A002



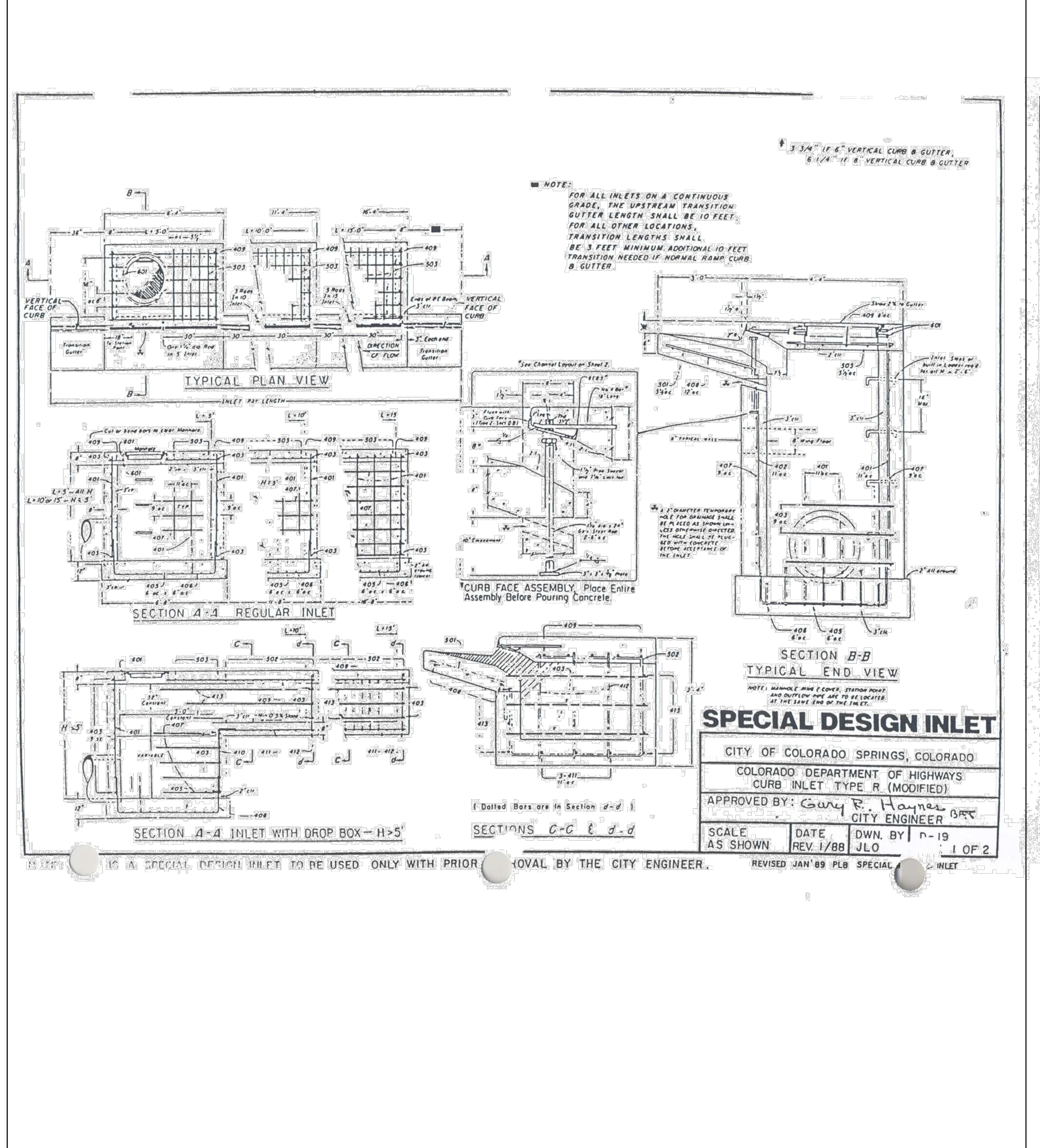
**L6** 6" HYDROTECH HYDROBLOCK 150 ADA TRENCH DRAIN  
 NTS SN: DD030B002



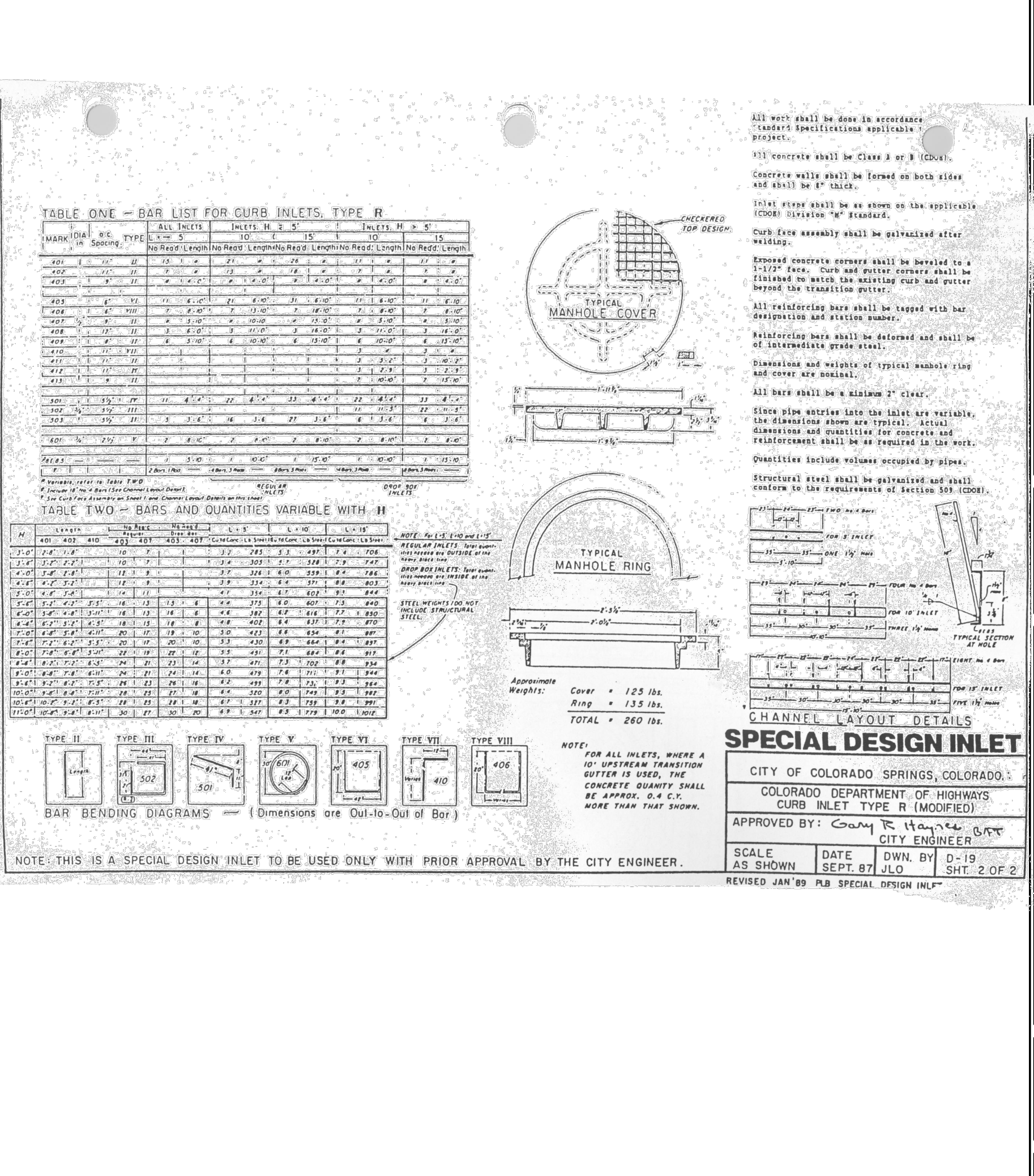
**L11** CURB INLET WITH SNOOT SUMP (SECTION VIEW)  
 NTS SN: DD029A001



**A1** INLET SNOOT  
 NOT TO SCALE SN:



**A6** TYPE R INLET  
 NOT TO SCALE SN:



**A11** TYPE R INLET  
 NOT TO SCALE SN:

PROJECT NO.: QKT004299

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 MONUMENT, COLORADO

PROTOTYPE: P-108 (11/01/21)  
 DIVISION: 83  
 VERSION: 001  
 DESIGNED BY: DLR  
 DRAWN BY: DLR  
 REVIEWED BY: ACJ

REV	DATE	DESCRIPTION

SHEET TITLE:  
**DRAINAGE DETAILS**

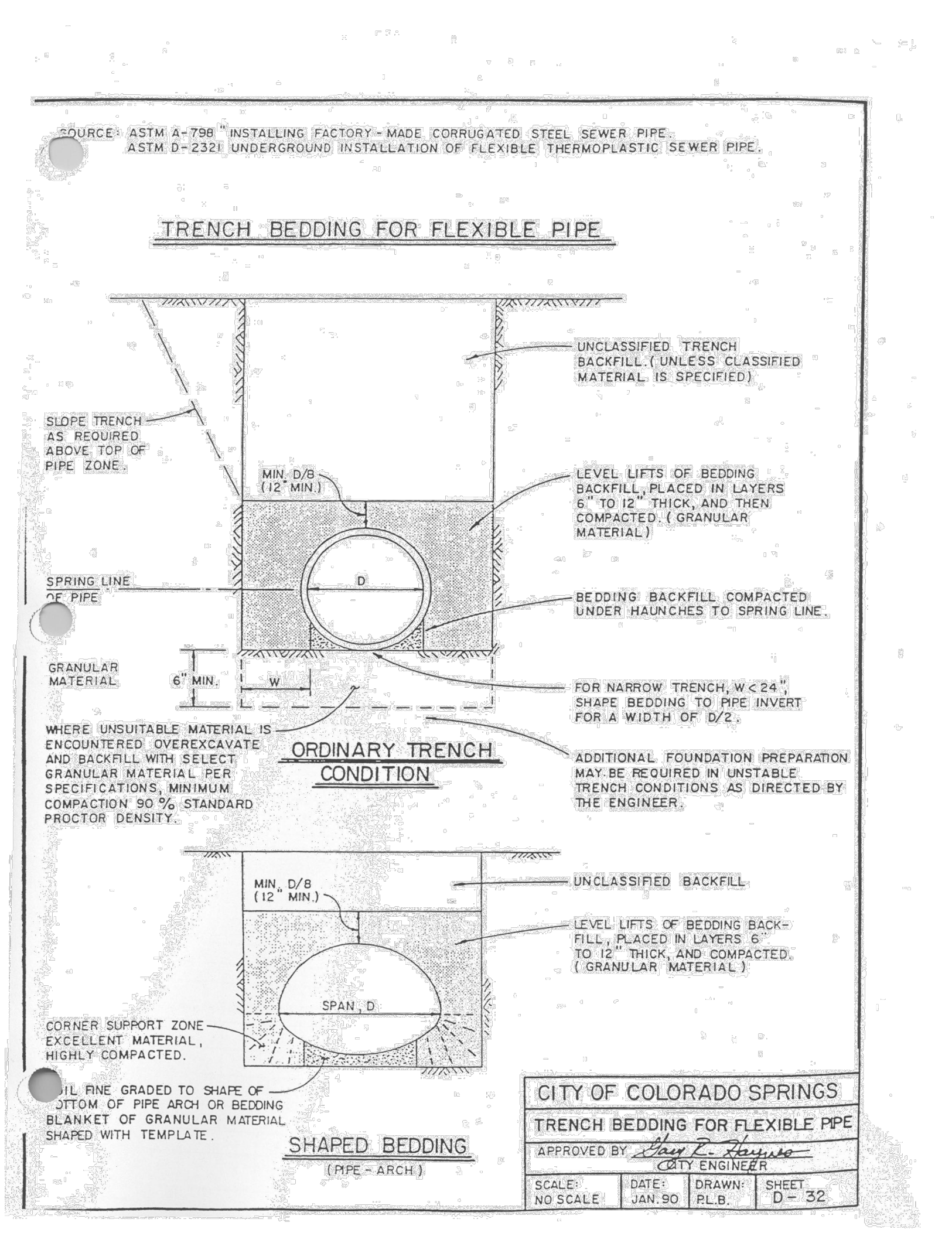
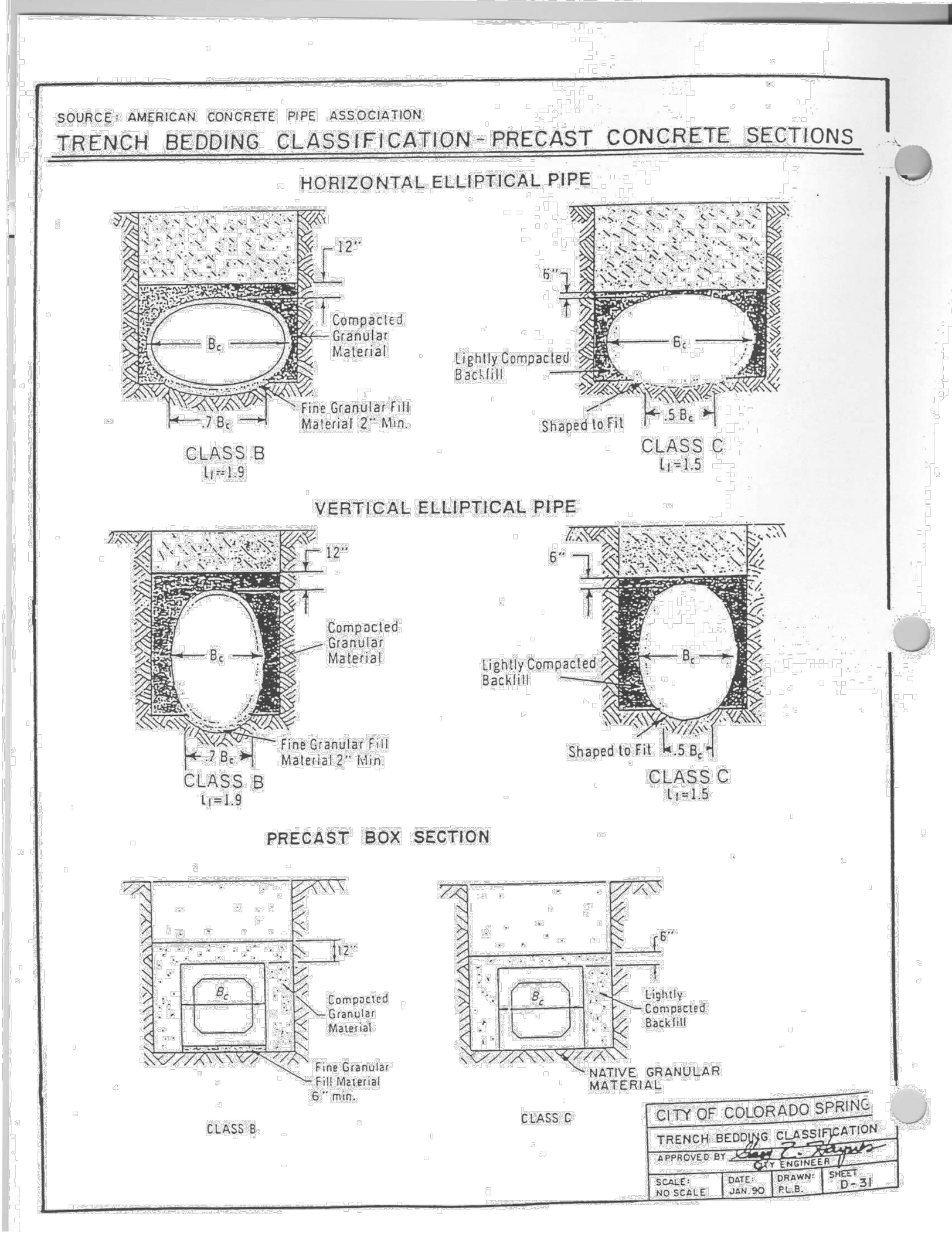
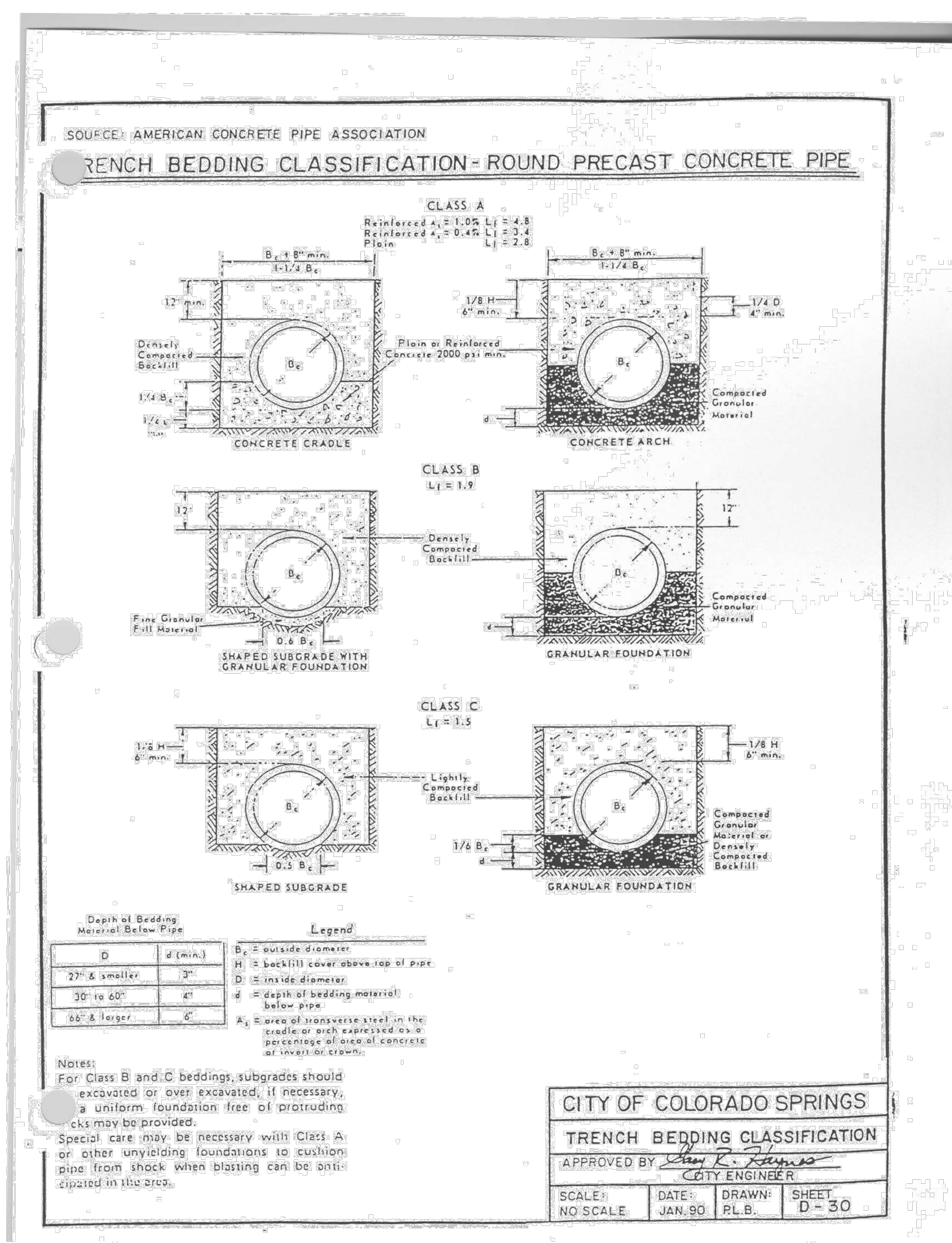
SHEET NUMBER:  
**27**

ORIGINAL ISSUE DATE: 9/24/2021

FILE LOCATION: \\QuikTrip\QuikTrip\Monument\CD\CD\3-CD\DETAILS\DRAINAGE.dwg TAB NAME: Drainage Detail Sheet 3 (2) USER: Duncun\_Redy SAVED: 11/11/2021 2:28 PM PLOTTED: 11/12/2021 12:19 PM

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Q  
P  
N  
M  
L  
K  
J  
H  
G  
F  
E  
D  
C  
B  
A



PROJECT NO.: QKT004299

**QuikTrip No. 4299**  
S.W.C. OF BAPTIST RD & TERRAZZO DR.  
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**QT**

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PROTOTYPE:	P-108 (11/01/21)
DIVISION:	83
VERSION:	001
DESIGNED BY:	DLR
DRAWN BY:	DLR
REVIEWED BY:	ACJ

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 9/24/2021

SHEET TITLE:  
**DRAINAGE DETAILS**

SHEET NUMBER:  
**28**

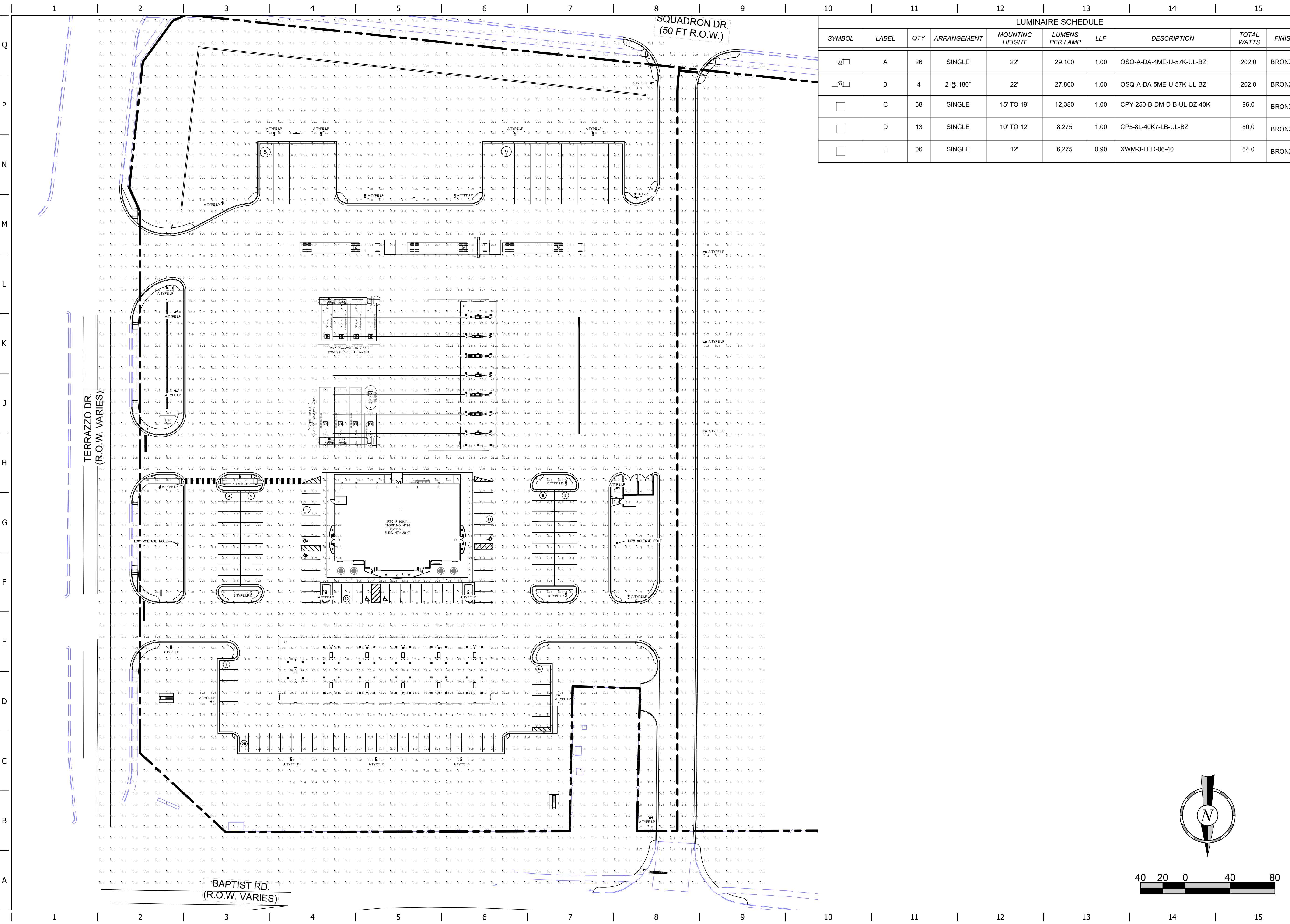
**A1** TRENCHING  
NOT TO SCALE SN:

**A6** TRENCHING  
NOT TO SCALE SN:

**A11** TRENCHING  
NOT TO SCALE SN:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

FILE LOCATION: \\c:\Users\dlr\OneDrive\Documents\Projects\83-4299\01\_Civil\01\_Lighting\83-4299\_Photometric.dwg TAB NAME: Photometric USER: rturner DATE: 10/6/2021 1:43 PM



LUMINAIRE SCHEDULE									
SYMBOL	LABEL	QTY	ARRANGEMENT	MOUNTING HEIGHT	LUMENS PER LAMP	LLF	DESCRIPTION	TOTAL WATTS	FINISH
	A	26	SINGLE	22'	29,100	1.00	OSQ-A-DA-4ME-U-57K-UL-BZ	202.0	BRONZE
	B	4	2 @ 180°	22'	27,800	1.00	OSQ-A-DA-5ME-U-57K-UL-BZ	202.0	BRONZE
	C	68	SINGLE	15' TO 19'	12,380	1.00	CPY-250-B-DM-D-B-UL-BZ-40K	96.0	BRONZE
	D	13	SINGLE	10' TO 12'	8,275	1.00	CP5-8L-40K7-LB-UL-BZ	50.0	BRONZE
	E	06	SINGLE	12'	6,275	0.90	XWM-3-LED-06-40	54.0	BRONZE

PROJECT NO.: #####

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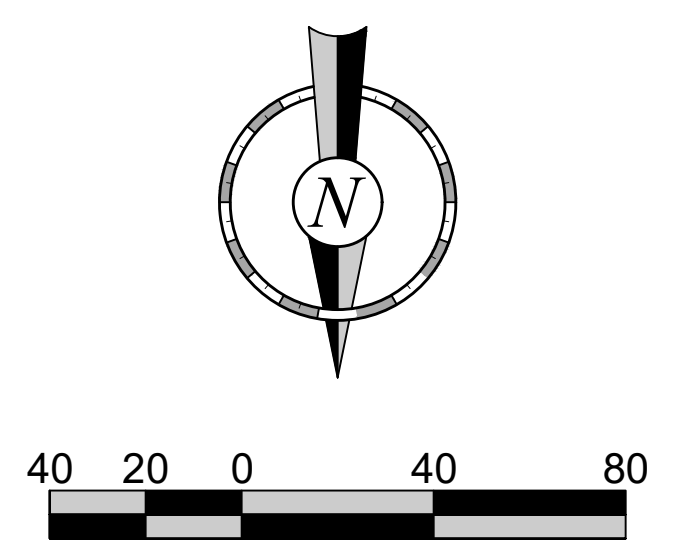
PROTOTYPE: P-107 (08/01/21)  
VERSION: 001  
DESIGNED BY: DLR  
DRAWN BY: DLR  
REVIEWED BY: ACJ

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: X/XX/2021

SHEET TITLE:  
PHOTOMETRIC SITE PLAN

SHEET NUMBER:  
**29**



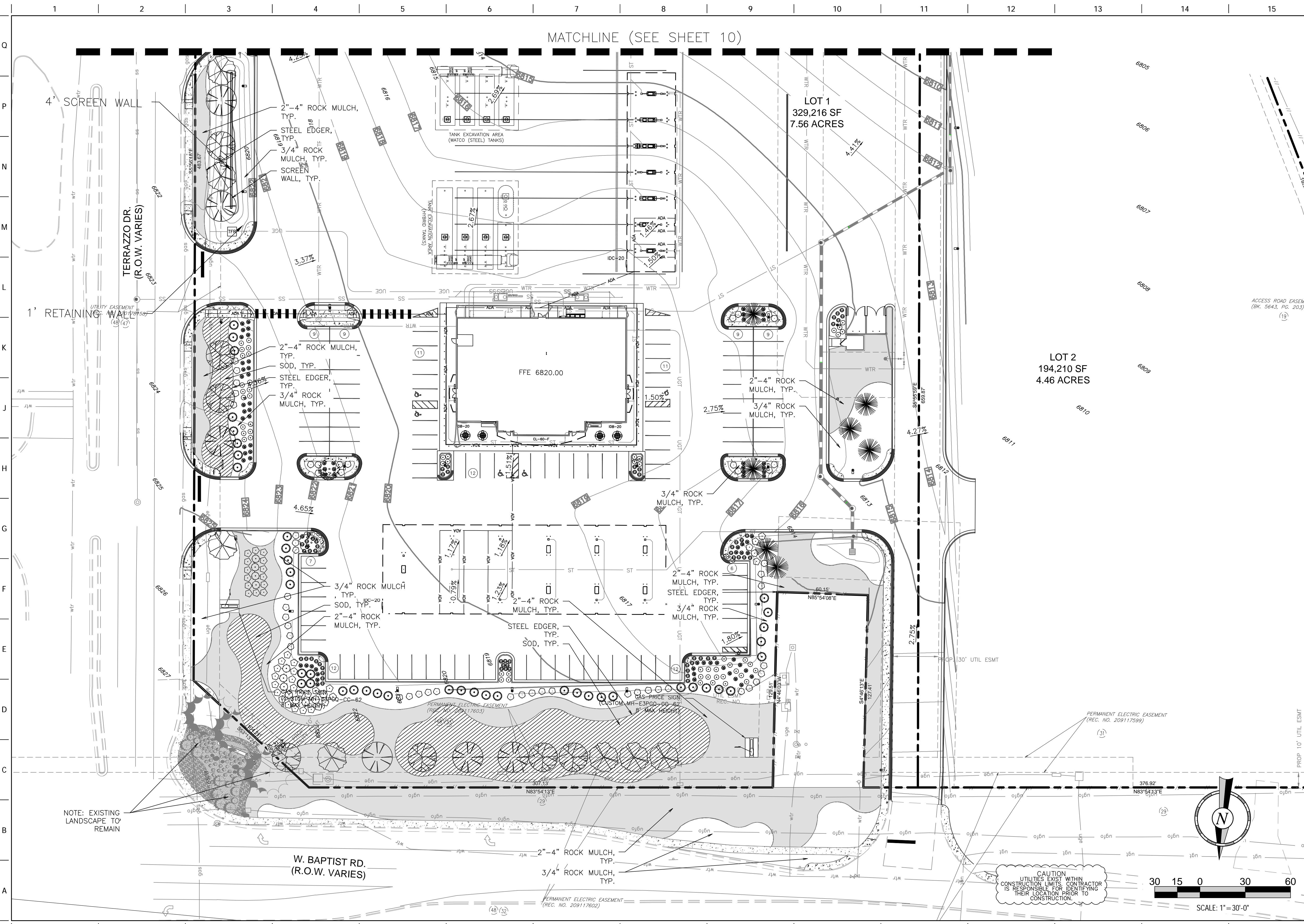








FILE LOCATION: \\Quiktrip\Quiktrip\Monument\_CO\CD\2-Plan\85-4299\_Civil.dwg TAB NAME: Landscape (PUD) North USER: Eric\_Newell SAVED: 12/13/2021 3:25 PM PLOTTED: 12/13/2021 3:31 PM



PROJECT NO.: OKT004299

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PROTOTYPE: P-108 (11/01/21)  
DIVISION: 83  
VERSION: D01  
DESIGNED BY: DLR  
DRAWN BY: DLR  
REVIEWED BY: ACJ

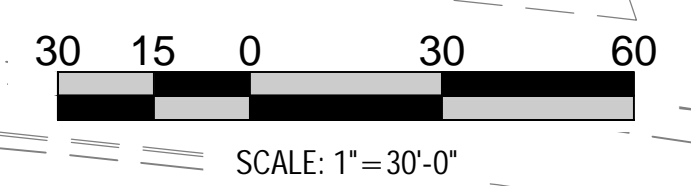
REV	DATE	DESCRIPTION

SHEET TITLE:  
LANDSCAPE PLAN (NORTH)

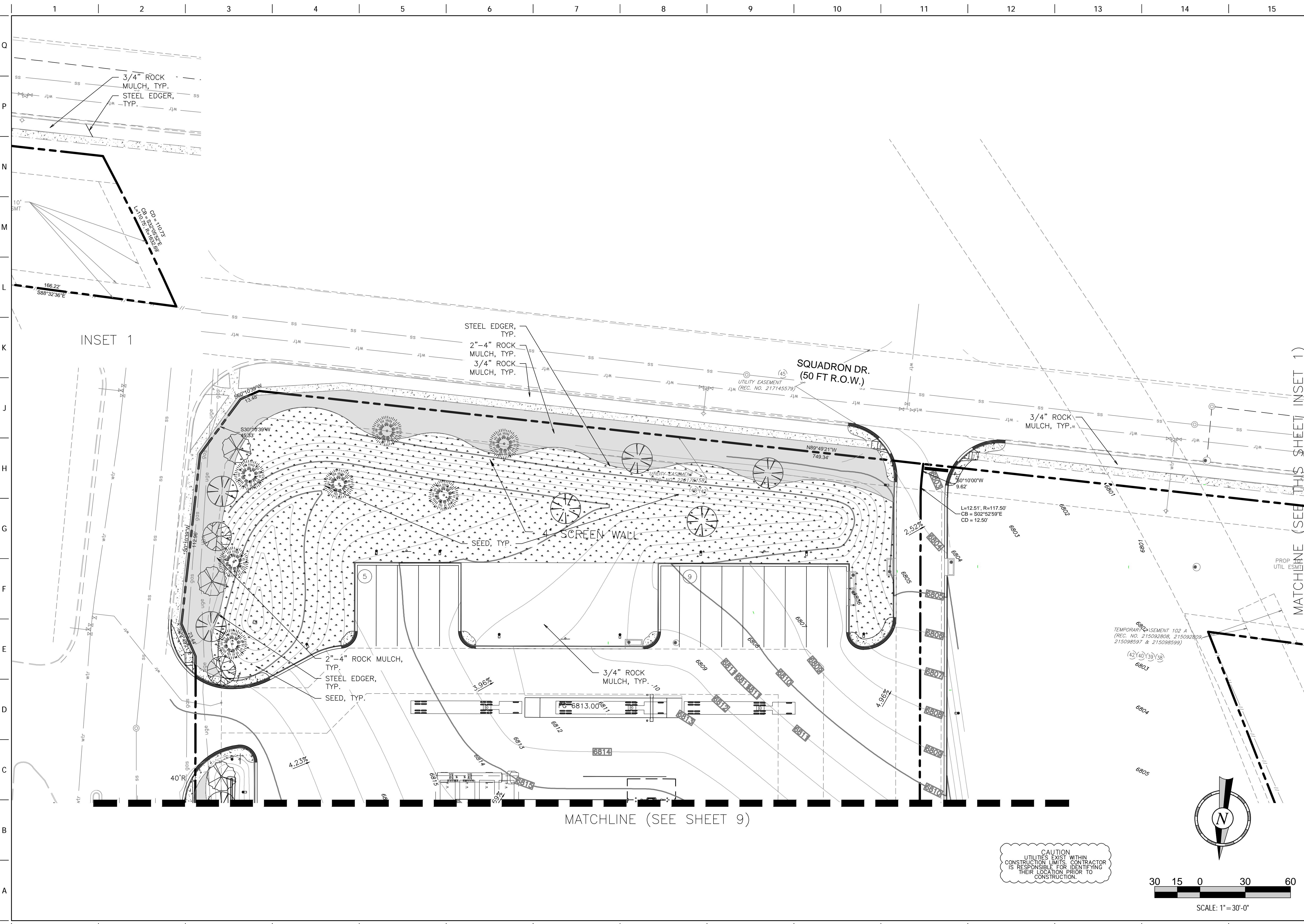
SHEET NUMBER:  
**33**

ORIGINAL ISSUE DATE: 9/24/2021

CAUTION  
UTILITIES EXIST WITHIN  
CONSTRUCTION LIMITS. CONTRACTOR  
IS RESPONSIBLE FOR IDENTIFYING  
THEIR LOCATION PRIOR TO  
CONSTRUCTION.



FILE LOCATION: H:\QuikTrip\QuikTrip\04299-Monument\CD\CD\2-Plan\05-4299-Civil.dwg USER: Eric.Newell SWED: 12/15/2021 3:25 PM PLOTTED: 12/15/2021 3:31 PM

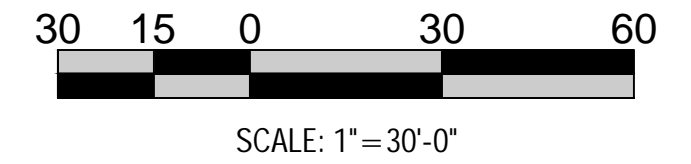
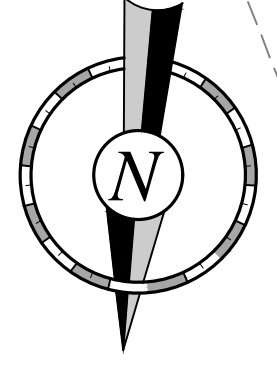


INSET 1

MATCHLINE (SEE THIS SHEET INSET 1)

MATCHLINE (SEE SHEET 9)

CAUTION  
UTILITIES EXIST WITHIN  
CONSTRUCTION LIMITS. CONTRACTOR  
IS RESPONSIBLE FOR IDENTIFYING  
THEIR LOCATION PRIOR TO  
CONSTRUCTION.



PROJECT NO.: QKT004299

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DIVISION:	83
VERSION:	D01
DESIGNED BY:	DLR
DRAWN BY:	DLR
REVIEWED BY:	ACJ

REV	DATE	DESCRIPTION

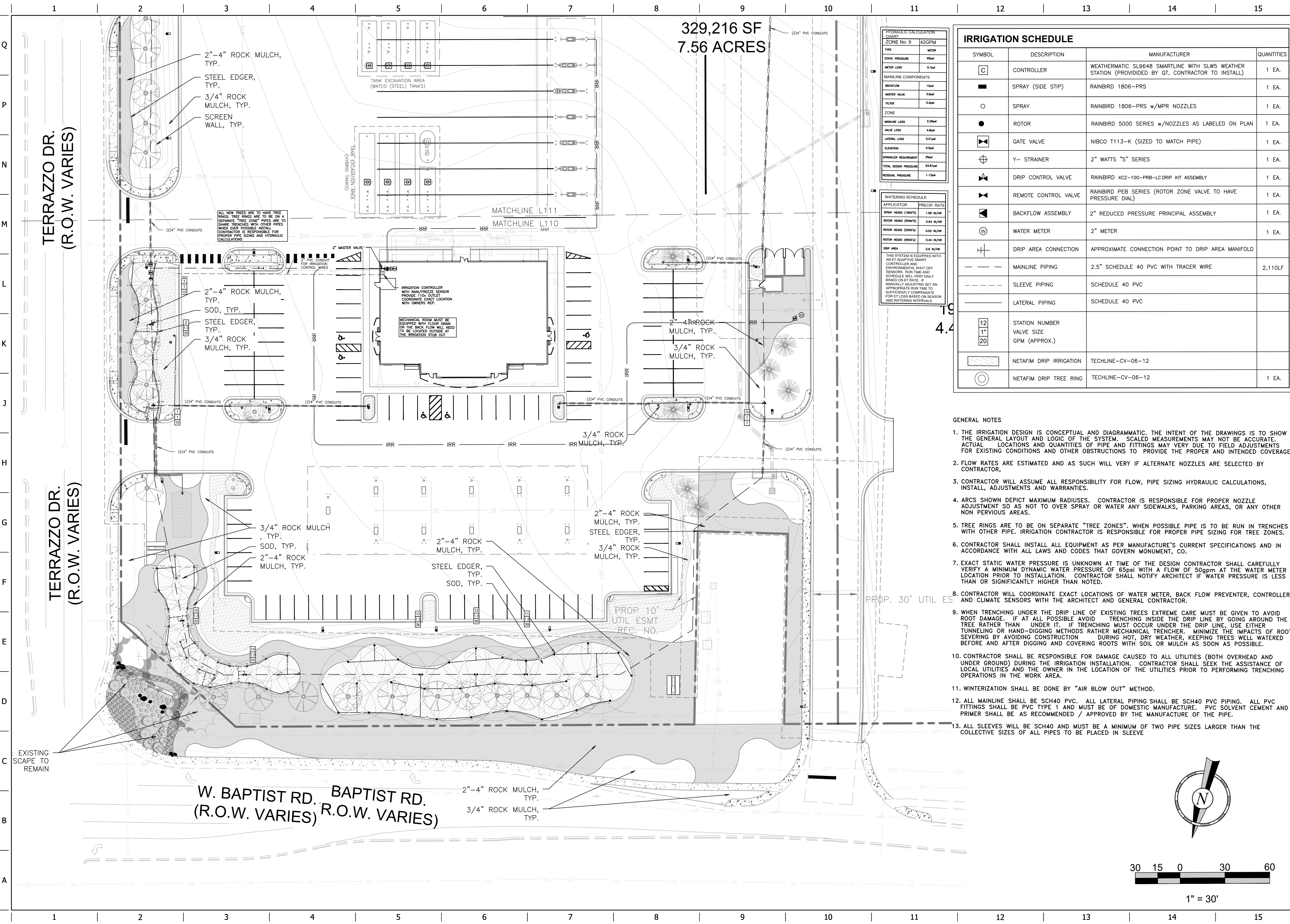
ORIGINAL ISSUE DATE: 9/24/2021

SHEET TITLE:

LANDSCAPE PLAN (SOUTH)

SHEET NUMBER:

34



329,216 SF  
7.56 ACRES

**HYDRAULIC CALCULATION CHART**

ZONE No. 9 42GPM

TYPE	VELOCITY
STATIC PRESSURE	45psi
WATER LOSS	0.7psi

**MAINLINE COMPONENTS**

BACKFLOW	15psi
WATER VALVE	3.0psi
FILTER	0.5psi

**ZONE**

MAINLINE LOSS	2.25psi
VALVE LOSS	4.0psi
LATERAL LOSS	0.51psi
ELEVATION	0.0psi
SPRINKLER REQUIREMENT	35psi
TOTAL DESIGN PRESSURE	63.81psi
DESIGN PRESSURE	1.75psi

**IRRIGATION SCHEDULE**

APPLICATOR	PRECIP. RATE
SPRAY HEADS (1800'S)	1.00 IN/HR
ROTOR HEADS (1800'S)	0.64 IN/HR
ROTOR HEADS (2000'S)	0.52 IN/HR
ROTOR HEADS (2500'S)	0.44 IN/HR
DRIP AREA	0.6 IN/HR

THIS SYSTEM IS EQUIPPED WITH AN ET ADAPTIVE SMART CONTROLLER AND ENVIRONMENTAL SHUT OFF SENSORS. RUN TIME AND SCHEDULE WILL VARY GREATLY BASED ON ET RATE. IF MANUALLY ADJUSTING SET AN APPROPRIATE RUN TIME TO SUFFICIENTLY COMPENSATE FOR ET LOSS BASED ON SEASON AND WATERING INTERVALS.

SYMBOL	DESCRIPTION	MANUFACTURER	QUANTITIES
☐	CONTROLLER	WEATHERMATIC SL9648 SMARTLINE WITH SLW5 WEATHER STATION (PROVIDED BY QT, CONTRACTOR TO INSTALL)	1 EA.
■	SPRAY (SIDE STIP)	RAINBIRD 1806-PRS	1 EA.
○	SPRAY	RAINBIRD 1806-PRS w/MPR NOZZLES	1 EA.
●	ROTOR	RAINBIRD 5000 SERIES w/NOZZLES AS LABELED ON PLAN	1 EA.
⊞	GATE VALVE	NIBCO T113-K (SIZED TO MATCH PIPE)	1 EA.
⊕	Y- STRAINER	2" WATTS "S" SERIES	1 EA.
⊗	DRIP CONTROL VALVE	RAINBIRD XC2-100-PRB-LC DRIP KIT ASSEMBLY	1 EA.
⊘	REMOTE CONTROL VALVE	RAINBIRD PEB SERIES (ROTOR ZONE VALVE TO HAVE PRESSURE DIAL)	1 EA.
⊞	BACKFLOW ASSEMBLY	2" REDUCED PRESSURE PRINCIPAL ASSEMBLY	1 EA.
⊗	WATER METER	2" METER	1 EA.
⊞	DRIP AREA CONNECTION	APPROXIMATE CONNECTION POINT TO DRIP AREA MANIFOLD	
---	MAINLINE PIPING	2.5" SCHEDULE 40 PVC WITH TRACER WIRE	2,110LF
---	SLEEVE PIPING	SCHEDULE 40 PVC	
---	LATERAL PIPING	SCHEDULE 40 PVC	
12 1"	STATION NUMBER		
20	VALVE SIZE		
	GPM (APPROX.)		
⊞	NETAFIM DRIP IRRIGATION	TECHLINE-CV-06-12	
⊞	NETAFIM DRIP TREE RING	TECHLINE-CV-06-12	1 EA.

**GENERAL NOTES**

- THE IRRIGATION DESIGN IS CONCEPTUAL AND DIAGRAMMATIC. THE INTENT OF THE DRAWINGS IS TO SHOW THE GENERAL LAYOUT AND LOGIC OF THE SYSTEM. SCALED MEASUREMENTS MAY NOT BE ACCURATE. ACTUAL LOCATIONS AND QUANTITIES OF PIPE AND FITTINGS MAY VARY DUE TO FIELD ADJUSTMENTS FOR EXISTING CONDITIONS AND OTHER OBSTRUCTIONS TO PROVIDE THE PROPER AND INTENDED COVERAGE.
- FLOW RATES ARE ESTIMATED AND AS SUCH WILL VARY IF ALTERNATE NOZZLES ARE SELECTED BY CONTRACTOR.
- CONTRACTOR WILL ASSUME ALL RESPONSIBILITY FOR FLOW, PIPE SIZING HYDRAULIC CALCULATIONS, INSTALL, ADJUSTMENTS AND WARRANTIES.
- ARCS SHOWN DEPICT MAXIMUM RADIIUSES. CONTRACTOR IS RESPONSIBLE FOR PROPER NOZZLE ADJUSTMENT SO AS NOT TO OVER SPRAY OR WATER ANY SIDEWALKS, PARKING AREAS, OR ANY OTHER NON PERVIOUS AREAS.
- TREE RINGS ARE TO BE ON SEPARATE "TREE ZONES". WHEN POSSIBLE PIPE IS TO BE RUN IN TRENCHES WITH OTHER PIPE. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR PROPER PIPE SIZING FOR TREE ZONES.
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT AS PER MANUFACTURE'S CURRENT SPECIFICATIONS AND IN ACCORDANCE WITH ALL LAWS AND CODES THAT GOVERN MONUMENT, CO.
- EXACT STATIC WATER PRESSURE IS UNKNOWN AT TIME OF THE DESIGN CONTRACTOR SHALL CAREFULLY VERIFY A MINIMUM DYNAMIC WATER PRESSURE OF 65psi WITH A FLOW OF 50gpm AT THE WATER METER LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL NOTIFY ARCHITECT IF WATER PRESSURE IS LESS THAN OR SIGNIFICANTLY HIGHER THAN NOTED.
- CONTRACTOR WILL COORDINATE EXACT LOCATIONS OF WATER METER, BACK FLOW PREVENTER, CONTROLLER AND CLIMATE SENSORS WITH THE ARCHITECT AND GENERAL CONTRACTOR.
- WHEN TRENCHING UNDER THE DRIP LINE OF EXISTING TREES EXTREME CARE MUST BE GIVEN TO AVOID ROOT DAMAGE. IF AT ALL POSSIBLE AVOID TRENCHING INSIDE THE DRIP LINE BY GOING AROUND THE TREE RATHER THAN UNDER IT. IF TRENCHING MUST OCCUR UNDER THE DRIP LINE, USE EITHER TUNNELING OR HAND-DIGGING METHODS RATHER MECHANICAL TRENCHER. MINIMIZE THE IMPACTS OF ROOT SEVERING BY AVOIDING CONSTRUCTION DURING HOT, DRY WEATHER, KEEPING TREES WELL WATERED BEFORE AND AFTER DIGGING AND COVERING ROOTS WITH SOIL OR MULCH AS SOON AS POSSIBLE.
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- ALL SLEEVES WILL BE SCH40 AND MUST BE A MINIMUM OF TWO PIPE SIZES LARGER THAN THE COLLECTIVE SIZES OF ALL PIPES TO BE PLACED IN SLEEVE

**MATTHEW McFARLING**  
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120659  
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**QuikTrip No. 4299**  
S.W.C. OF BAPTIST RD & TERRAZZO DR.  
MONUMENT, COLORADO

**QT**

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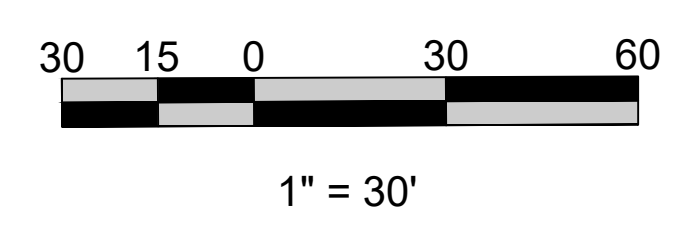
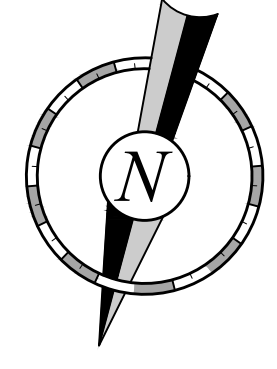
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DIVISION: 83  
VERSION: 001  
DESIGNED BY: MCM  
DRAWN BY: MCM  
REVIEWED BY:

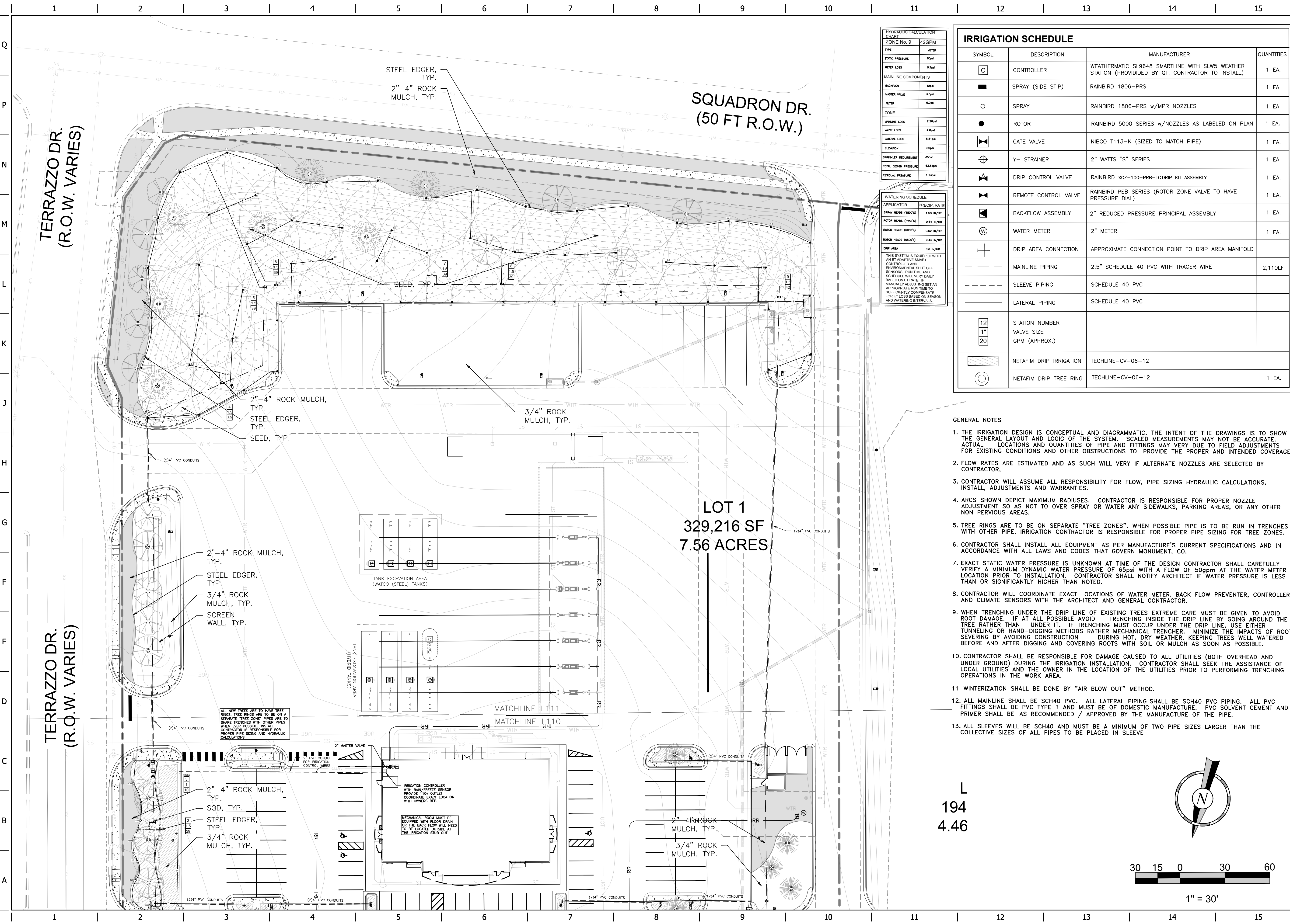
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 9/20/2021

SHEET TITLE:  
IRRIGATION PLAN  
SHEET 1

SHEET NUMBER:  
**35**





**HYDRAULIC CALCULATION CHART**  
 ZONE No. 9 42GPM

TYPE	METER
STATIC PRESSURE	65psi
WATER LOSS	0.7psi

**MAINLINE COMPONENTS**

BACKFLOW	1psi
WATER VALVE	3.0psi
FILTER	0.5psi

**ZONE**

MAINLINE LOSS	2.25psi
VALVE LOSS	4.0psi
LATERAL LOSS	0.51psi
ELEVATION	0.0psi
SPRINKLER REQUIREMENT	35psi
TOTAL DESIGN PRESSURE	63.81psi
DESIGN PRESSURE	1.75psi

**WATERING SCHEDULE**

APPLICATOR	PRECIP. RATE
SPRAY HEADS (1800'S)	1.00 IN/HR
ROTOR HEADS (1800'S)	0.44 IN/HR
ROTOR HEADS (2000'S)	0.52 IN/HR
ROTOR HEADS (2500'S)	0.44 IN/HR
DRIP AREA	0.6 IN/HR

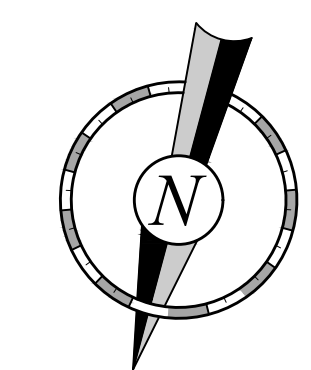
THIS SYSTEM IS EQUIPPED WITH AN ET ADAPTIVE SMART CONTROLLER AND ENVIRONMENTAL SHUT OFF SENSORS. RUN TIME AND SCHEDULE WILL VARY ONLY BASED ON ET RATE. IF MANUALLY ADJUSTING SET AN APPROPRIATE RUN TIME TO SUFFICIENTLY COMPENSATE FOR ET LOSS BASED ON SEASON AND WATERING INTERVALS.

**IRRIGATION SCHEDULE**

SYMBOL	DESCRIPTION	MANUFACTURER	QUANTITIES
☐	CONTROLLER	WEATHERMATIC SL9648 SMARTLINE WITH SLW5 WEATHER STATION (PROVIDED BY QT, CONTRACTOR TO INSTALL)	1 EA.
■	SPRAY (SIDE STIP)	RAINBIRD 1806-PRS	1 EA.
○	SPRAY	RAINBIRD 1806-PRS w/MPR NOZZLES	1 EA.
●	ROTOR	RAINBIRD 5000 SERIES w/NOZZLES AS LABELED ON PLAN	1 EA.
⊞	GATE VALVE	NIBCO T113-K (SIZED TO MATCH PIPE)	1 EA.
⊕	Y- STRAINER	2" WATTS "S" SERIES	1 EA.
⊗	DRIP CONTROL VALVE	RAINBIRD XCZ-100-PRB-LC DRIP KIT ASSEMBLY	1 EA.
⊘	REMOTE CONTROL VALVE	RAINBIRD PEB SERIES (ROTOR ZONE VALVE TO HAVE PRESSURE DIAL)	1 EA.
⊞	BACKFLOW ASSEMBLY	2" REDUCED PRESSURE PRINCIPAL ASSEMBLY	1 EA.
⊞	WATER METER	2" METER	1 EA.
⊞	DRIP AREA CONNECTION	APPROXIMATE CONNECTION POINT TO DRIP AREA MANIFOLD	
---	MAINLINE PIPING	2.5" SCHEDULE 40 PVC WITH TRACER WIRE	2,110LF
---	SLEEVE PIPING	SCHEDULE 40 PVC	
---	LATERAL PIPING	SCHEDULE 40 PVC	
12	STATION NUMBER		
1"	VALVE SIZE		
20	GPM (APPROX.)		
⊞	NETAFIM DRIP IRRIGATION	TECHLINE-CV-06-12	
⊞	NETAFIM DRIP TREE RING	TECHLINE-CV-06-12	1 EA.

**GENERAL NOTES**

1. THE IRRIGATION DESIGN IS CONCEPTUAL AND DIAGRAMMATIC. THE INTENT OF THE DRAWINGS IS TO SHOW THE GENERAL LAYOUT AND LOGIC OF THE SYSTEM. SCALED MEASUREMENTS MAY NOT BE ACCURATE. ACTUAL LOCATIONS AND QUANTITIES OF PIPE AND FITTINGS MAY VARY DUE TO FIELD ADJUSTMENTS FOR EXISTING CONDITIONS AND OTHER OBSTRUCTIONS TO PROVIDE THE PROPER AND INTENDED COVERAGE.
2. FLOW RATES ARE ESTIMATED AND AS SUCH WILL VARY IF ALTERNATE NOZZLES ARE SELECTED BY CONTRACTOR.
3. CONTRACTOR WILL ASSUME ALL RESPONSIBILITY FOR FLOW, PIPE SIZING HYDRAULIC CALCULATIONS, INSTALL, ADJUSTMENTS AND WARRANTIES.
4. ARCS SHOWN DEPICT MAXIMUM RADIIUSES. CONTRACTOR IS RESPONSIBLE FOR PROPER NOZZLE ADJUSTMENT SO AS NOT TO OVER SPRAY OR WATER ANY SIDEWALKS, PARKING AREAS, OR ANY OTHER NON PERVIOUS AREAS.
5. TREE RINGS ARE TO BE ON SEPARATE "TREE ZONES". WHEN POSSIBLE PIPE IS TO BE RUN IN TRENCHES WITH OTHER PIPE. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR PROPER PIPE SIZING FOR TREE ZONES.
6. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AS PER MANUFACTURE'S CURRENT SPECIFICATIONS AND IN ACCORDANCE WITH ALL LAWS AND CODES THAT GOVERN MONUMENT, CO.
7. EXACT STATIC WATER PRESSURE IS UNKNOWN AT TIME OF THE DESIGN CONTRACTOR SHALL CAREFULLY VERIFY A MINIMUM DYNAMIC WATER PRESSURE OF 65psi WITH A FLOW OF 50gpm AT THE WATER METER LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL NOTIFY ARCHITECT IF WATER PRESSURE IS LESS THAN OR SIGNIFICANTLY HIGHER THAN NOTED.
8. CONTRACTOR WILL COORDINATE EXACT LOCATIONS OF WATER METER, BACK FLOW PREVENTER, CONTROLLER AND CLIMATE SENSORS WITH THE ARCHITECT AND GENERAL CONTRACTOR.
9. WHEN TRENCHING UNDER THE DRIP LINE OF EXISTING TREES EXTREME CARE MUST BE GIVEN TO AVOID ROOT DAMAGE. IF AT ALL POSSIBLE AVOID TRENCHING INSIDE THE DRIP LINE BY GOING AROUND THE TREE RATHER THAN UNDER IT. IF TRENCHING MUST OCCUR UNDER THE DRIP LINE, USE EITHER TUNNELING OR HAND-DIGGING METHODS RATHER MECHANICAL TRENCHER. MINIMIZE THE IMPACTS OF ROOT SEVERING BY AVOIDING CONSTRUCTION DURING HOT, DRY WEATHER, KEEPING TREES WELL WATERED BEFORE AND AFTER DIGGING AND COVERING ROOTS WITH SOIL OR MULCH AS SOON AS POSSIBLE.
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194  
4.46

DATE SIGNED: 12/02/2021  
PROJECT NO.: #####

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MONUMENT, COLORADO

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REVIEWED BY:

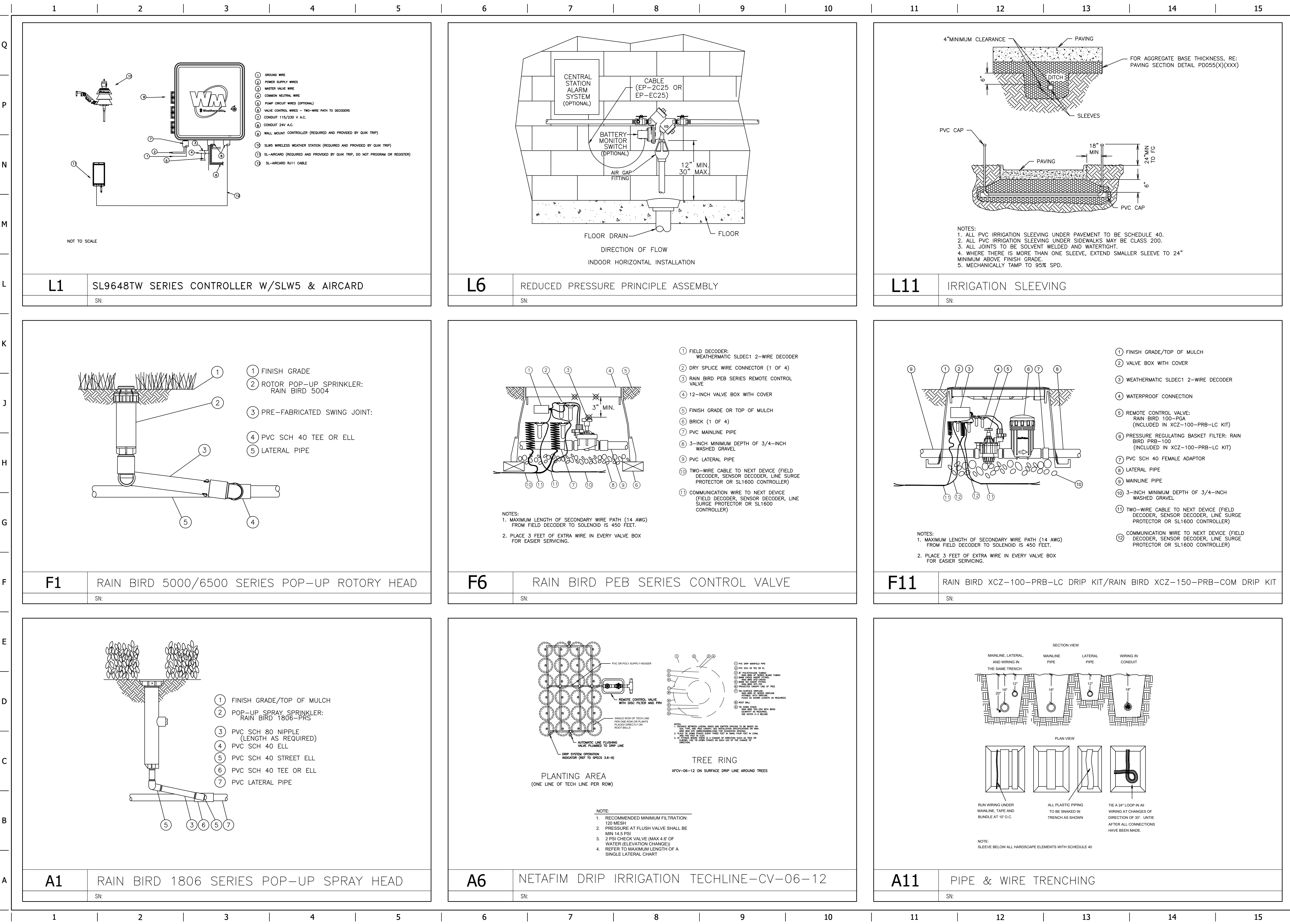
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ORIGINAL ISSUE DATE: 9/20/2021

SHEET TITLE:  
IRRIGATION PLAN  
SHEET 2

SHEET NUMBER:  
**36**

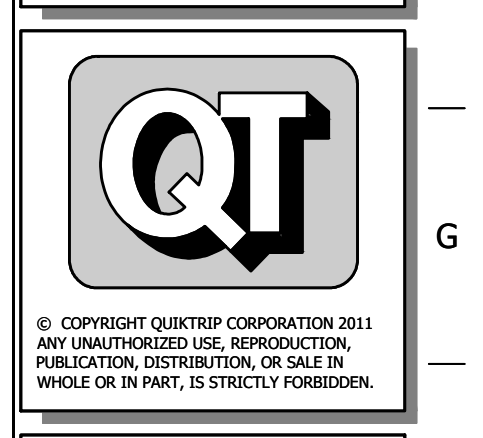




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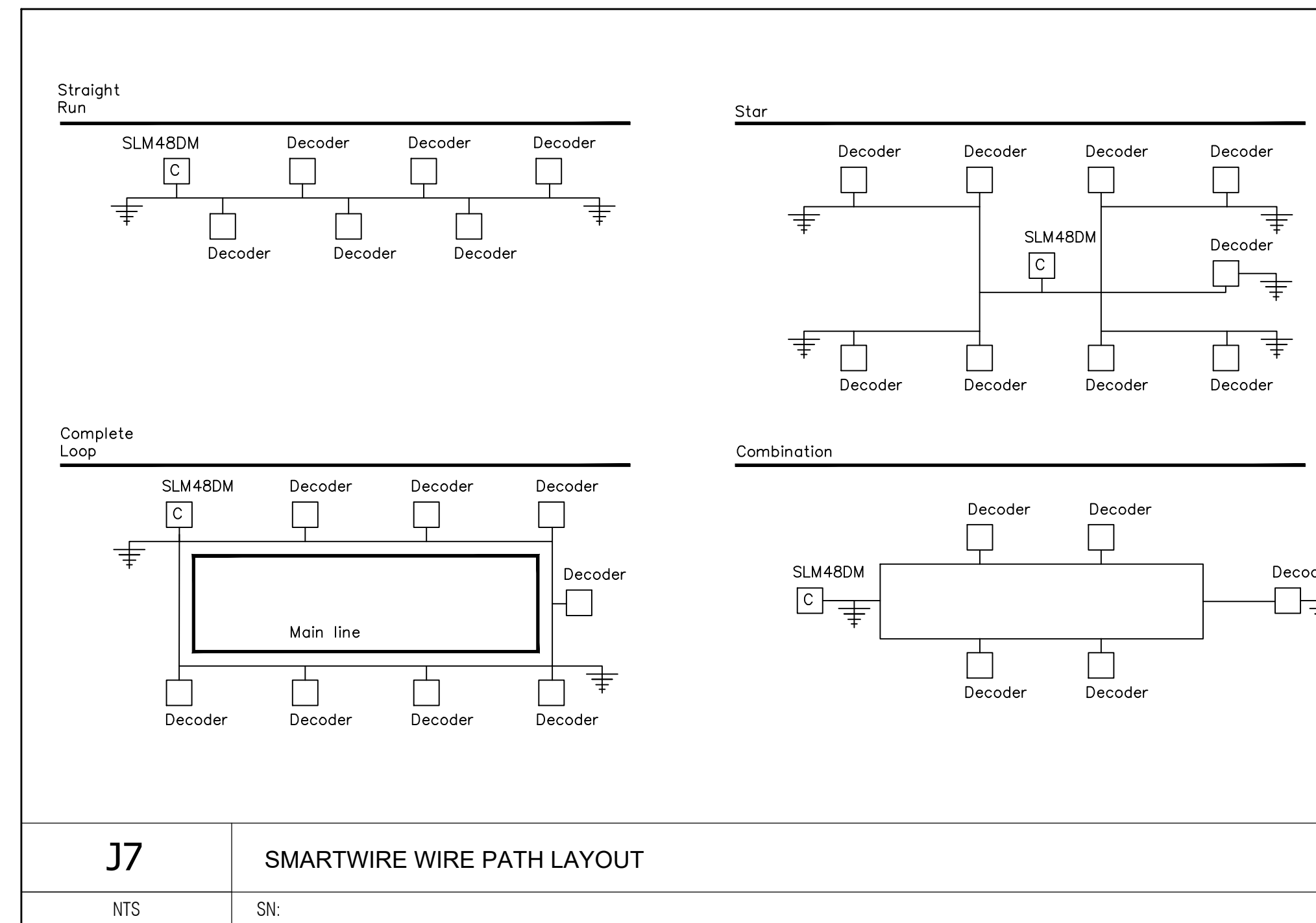
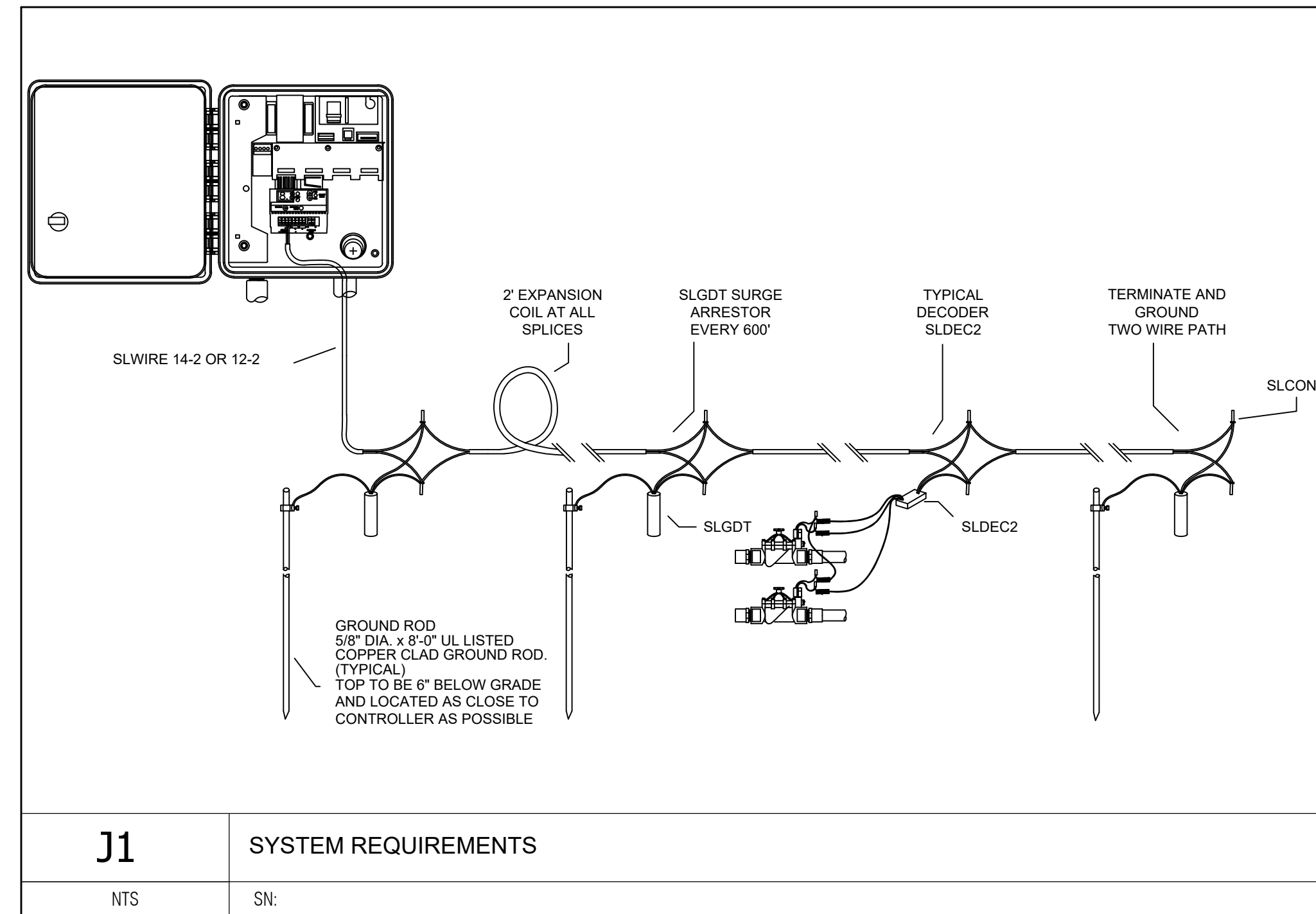
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SHEET TITLE:  
 IRRIGATION DETAILS  
 SHEET 1

SHEET NUMBER:  
**38**

ORIGINAL ISSUE DATE: 9/20/2021

## Two-wire irrigation details:



## Two-wire notes:

- NOTES:
- Specific wire polarity is required. Maintain red and black wire polarity throughout installation.
  - Maintain independent wire path for each controller. No splicing or joining wire paths for multiple controllers.
  - Up to three independent wire paths may be run for each controller.
  - Maximum distance from SLDEC decoders to remote control valve not to exceed 100' (30.5m).
  - Each 2-wire run may be laid out in straight run, complete loop, star, or combination layouts as shown in details. Always terminate and ground each leg of the wire path using manufacturer's recommended grounding methods.
  - Use a continuous loop wire path whenever possible to provide the best communication and power path for the system. Looping provides a redundant path for the power and signal allowing the system to continue operation in the event the wire path is cut.
  - Mark each zone number on the SLDEC decoder. For multi-valve decoders record the zone in order of wire color code: orange, yellow, green, and blue.
  - Mark all zone numbers and decoder locations on the as-built plan for final submittal.
  - Secure all Red and Black 2-wire connections using only manufacturer's supplied SLCONN aluminum connectors and grease filled waterproof connectors.
  - All remote control valve wire splices shall be secured using an encapsulated, gel-filled waterproof wire connector suitable for direct burial and installed according to manufacturer's specifications.
  - Use SmartWire SLWIRE cable supplied by Weathermatic sprinkler division of Telco Industries to comply with the following specifications:
    - Conductors must be soft drawn, annealed, solid copper conforming to ASTM 33.
    - Conductor insulation must be 4/64-inch thick polyvinyl chloride (PVC) conforming to UL #493.
    - The two insulated conductors laid in parallel and encased in a single outer jacket of 3/64-inch thick, high-density, sunlight resistant polyethylene conforming to ICEA S-61-402 and NEMA WC5, having a minimum wall thickness of .045-inch.
    - The two conductors must be color-coded: normally one conductor red and the other black. Both conductors shall be the same size.
    - The following brands meet the above specifications for direct burial cable: Weathermatic SLWIRE12; Weathermatic SLWIRE14.
  - Wire sizing and maximum distance shall not exceed manufacturer's recommendations to avoid voltage loss and insure proper operation of the system.
  - All 2-wire paths under hardscape surfaces shall be sleeved and include no splices of the 2-wire path within 5' of sleeves. Secure a 2' (0.6m) expansion loop in the two-wire path at each change of direction and entry and exit of sleeve locations during wire installation. Release the expansion loops prior to direct burial.
  - Install one SLGDT surge arrester at the following locations along the 2-wire path: within 25' (7.6m) of each controller; the farthest distance on the 2-wire path from the controller, every 300' along the wire path, at any independent branch termination greater than 50' (15m) from than main 2-wire path.
  - Connect each SLGDT to an 8' copper clad UL approved grounding rod or other approved grounding method to obtain 12 ohms or less resistance. Use CADWELD™ permanent welded, low-resistance connection to assure best grounding performance. Consult ASIC specification 100-2002 for additional grounding specifications for appropriate for local soil conditions.
  - Use care in stripping all wire connections to avoid damage to the 2-wire shield and red and black wire path. Remove and discard any damaged 2-wire sections and repair using two SLCONN splice kits.
  - Use expansion coils on the red and black wires at each decoder installation. No expansion coils are necessary for the SLGDT.
  - Adhere to all local and national building and electrical codes.

Straight line configuration, i.e. wire distance to furthest decoder, no loop:

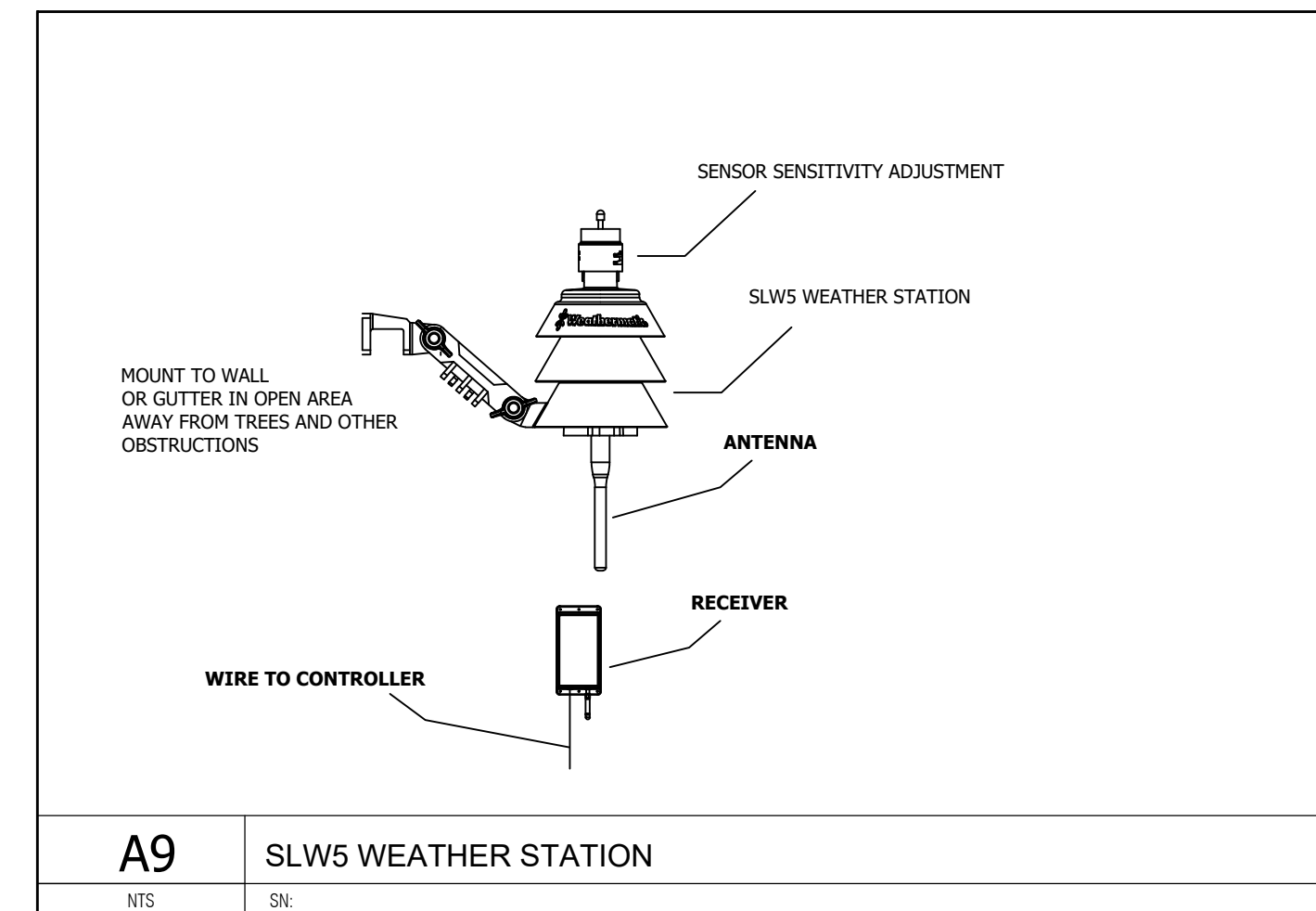
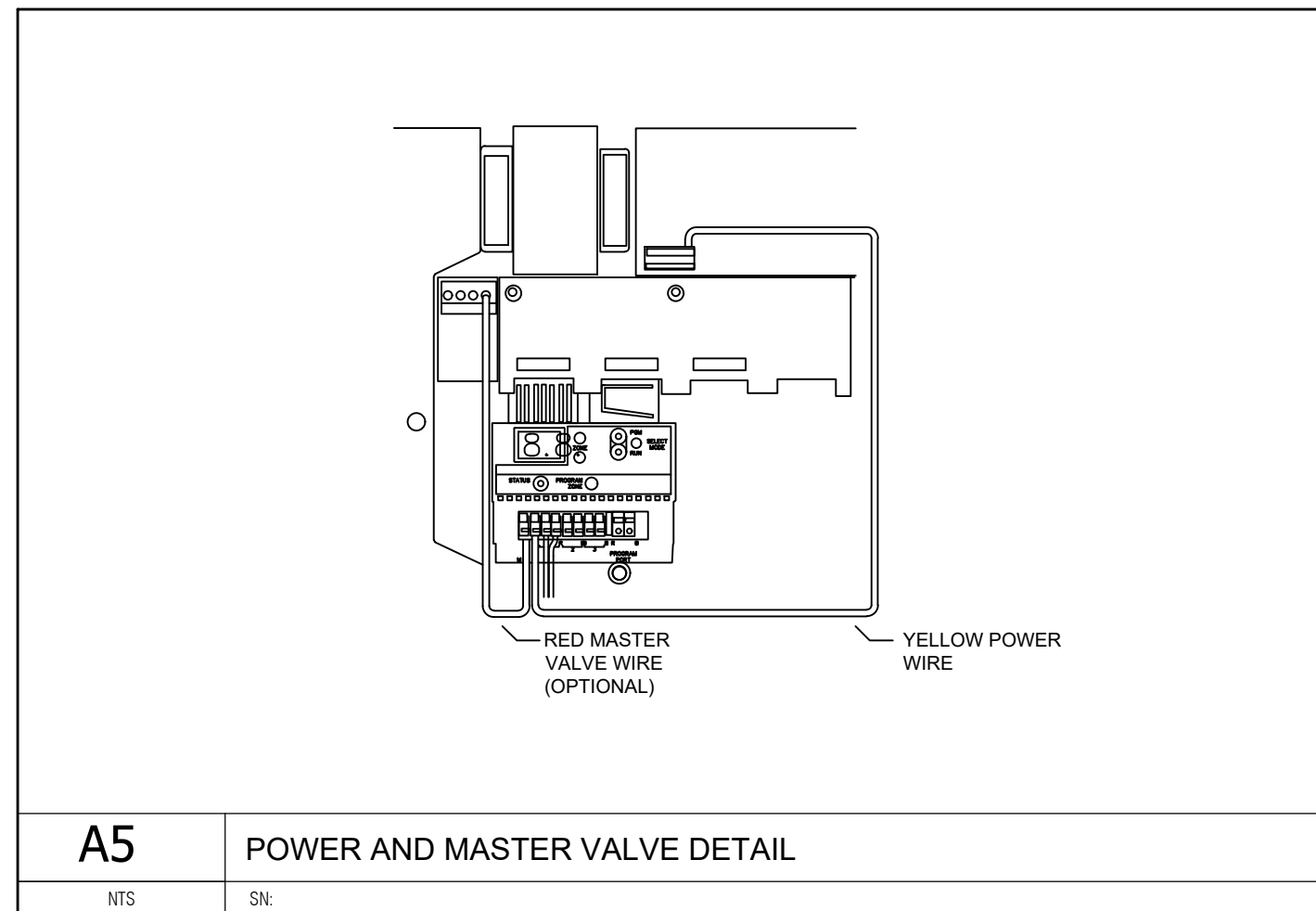
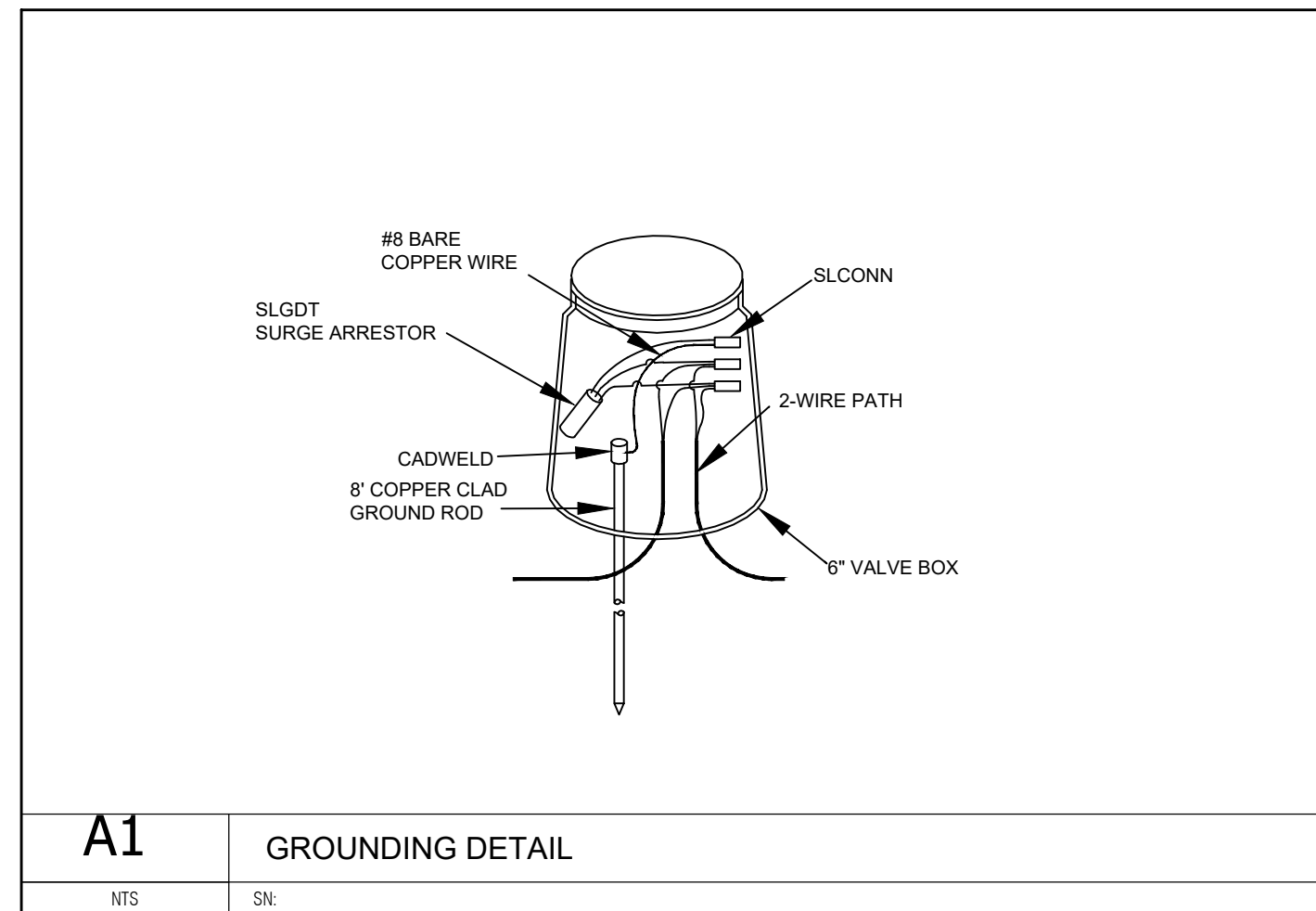
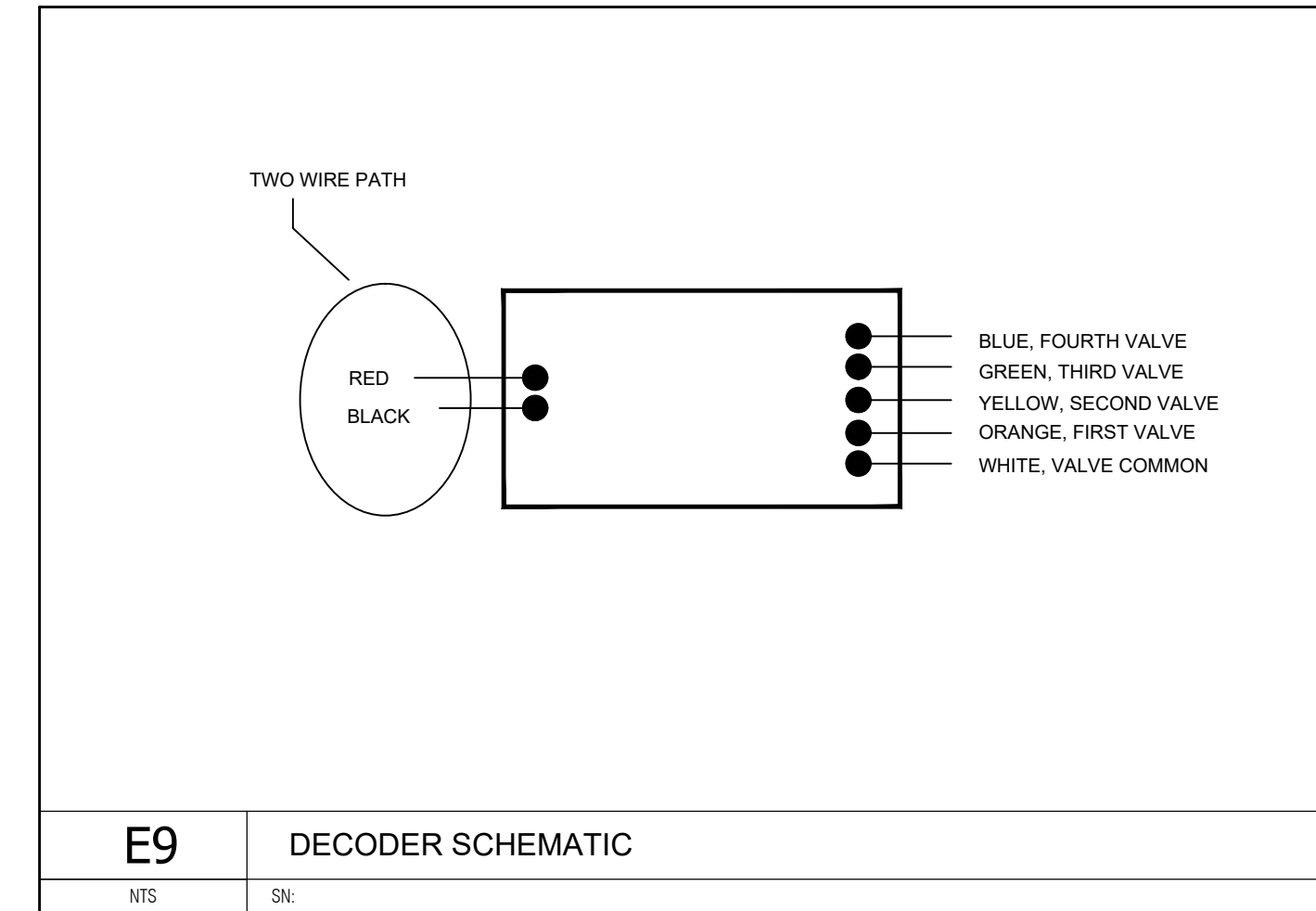
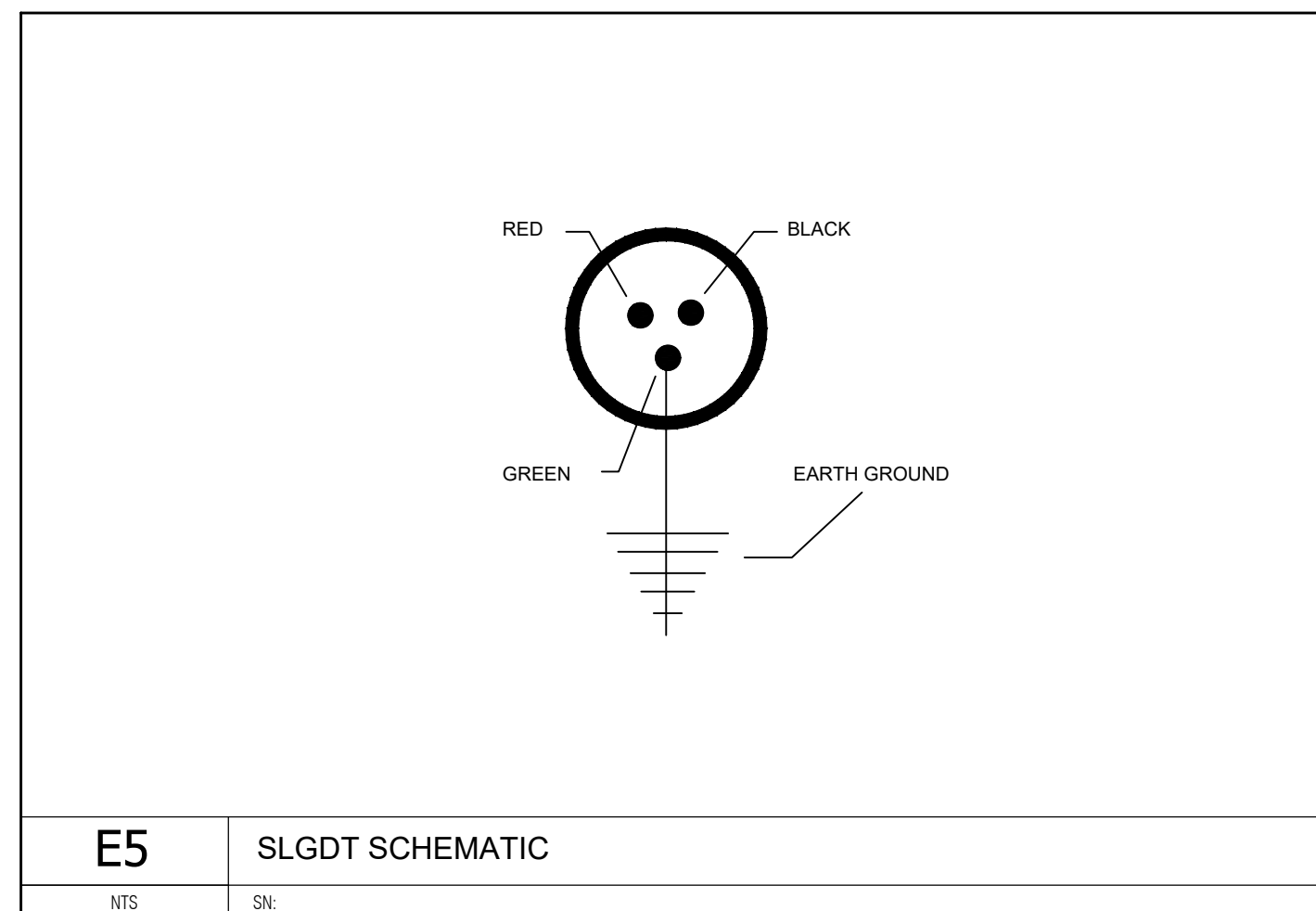
Wire Size (Gauge)	#18	#16	#14	#12
Wire Length (ft)	1,000	2,000	4,000	6,000
Wire Length (m)	300	600	1,200	1,800

Loop Configuration, i.e. wire distance to the furthest decoder in the loop:

Wire Size (Gauge)	#18	#16	#14	#12
Wire Length (ft)	2,000	4,000	10,000	10,000
Wire Length (m)	600	1,200	3,000	3,000

Maximum total wire path length is 10,000 ft. (3,000 m).

<b>E1</b>	<b>WIRE SIZING</b>
NTS	SN:



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MONUMENT, COLORADO

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DIVISION: 83
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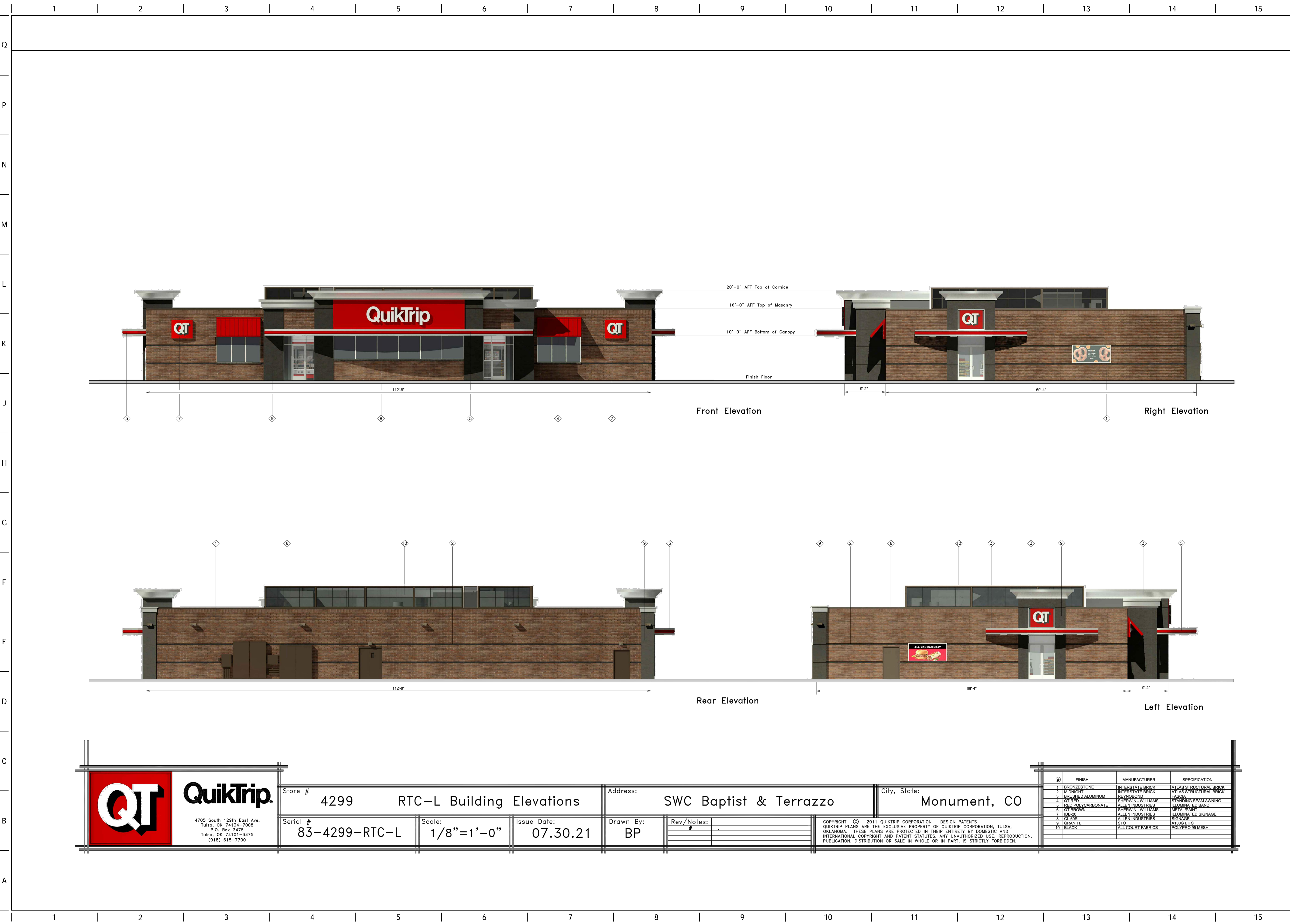
REV	DATE	DESCRIPTION

SHEET TITLE:  
**IRRIGATION DETAILS**  
SHEET 2

SHEET NUMBER:  
**39**

ORIGINAL ISSUE DATE: 9/20/2021

FILE LOCATION: \\QuikTrip\QuikTrip\QKT004299-Monument\_CO\CV\2-Plan\85-4299-Civil.dwg TAB NAME: Elevations (PUD) (1) USER: dbuncen\_Roady SAVE: 11/12/2021 7:44 AM PLOTTED: 11/12/2021 12:21 PM



**QuikTrip**  
 4705 South 129th East Ave.  
 Tulsa, OK 74134-7008  
 P.O. Box 3475  
 Tulsa, OK 74101-3475  
 (918) 615-7700

Store #	4299	RTC-L Building Elevations	Address:	SWC Baptist & Terrazzo	City, State:	Monument, CO	
Serial #	83-4299-RTC-L	Scale:	1/8"=1'-0"	Issue Date:	07.30.21	Drawn By:	BP
Rev/Notes:							

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DIVISION:	83
VERSION:	D01
DESIGNED BY:	DLR
DRAWN BY:	DLR
REVIEWED BY:	ACJ

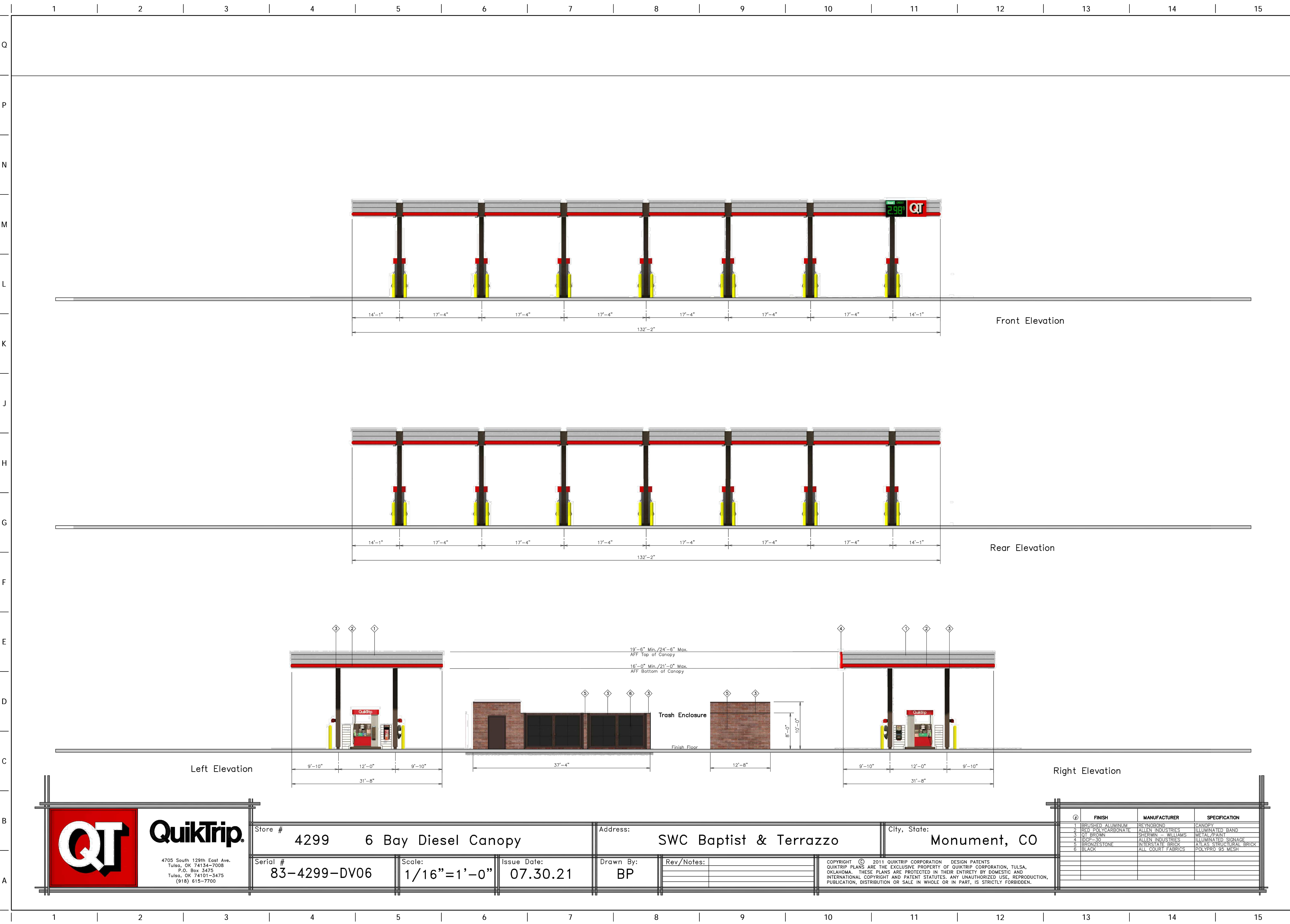

SHEET TITLE:  
**BUILDING ELEVATIONS**

SHEET NUMBER:  
**40**

ORIGINAL ISSUE DATE: 9/24/2021



FILE LOCATION: \\QuikTrip\QuikTrip\04299-Monument\_CO\CAD\2-Plan\83-4299-Civil.dwg TAB NAME: Elevations (PUD) (2) USER: duncan\_rody SWED: 11/12/2021 7:44 AM PLOTTED: 11/12/2021 12:21 PM



PROJECT NO.: OKT004299

**QuikTrip No. 4299**  
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 MONUMENT, COLORADO



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 DIVISION: 83  
 VERSION: D01  
 DESIGNED BY: DLR  
 DRAWN BY: DLR  
 REVIEWED BY: ACJ

REV	DATE	DESCRIPTION

SHEET TITLE:  
 BUILDING ELEVATIONS

SHEET NUMBER:  
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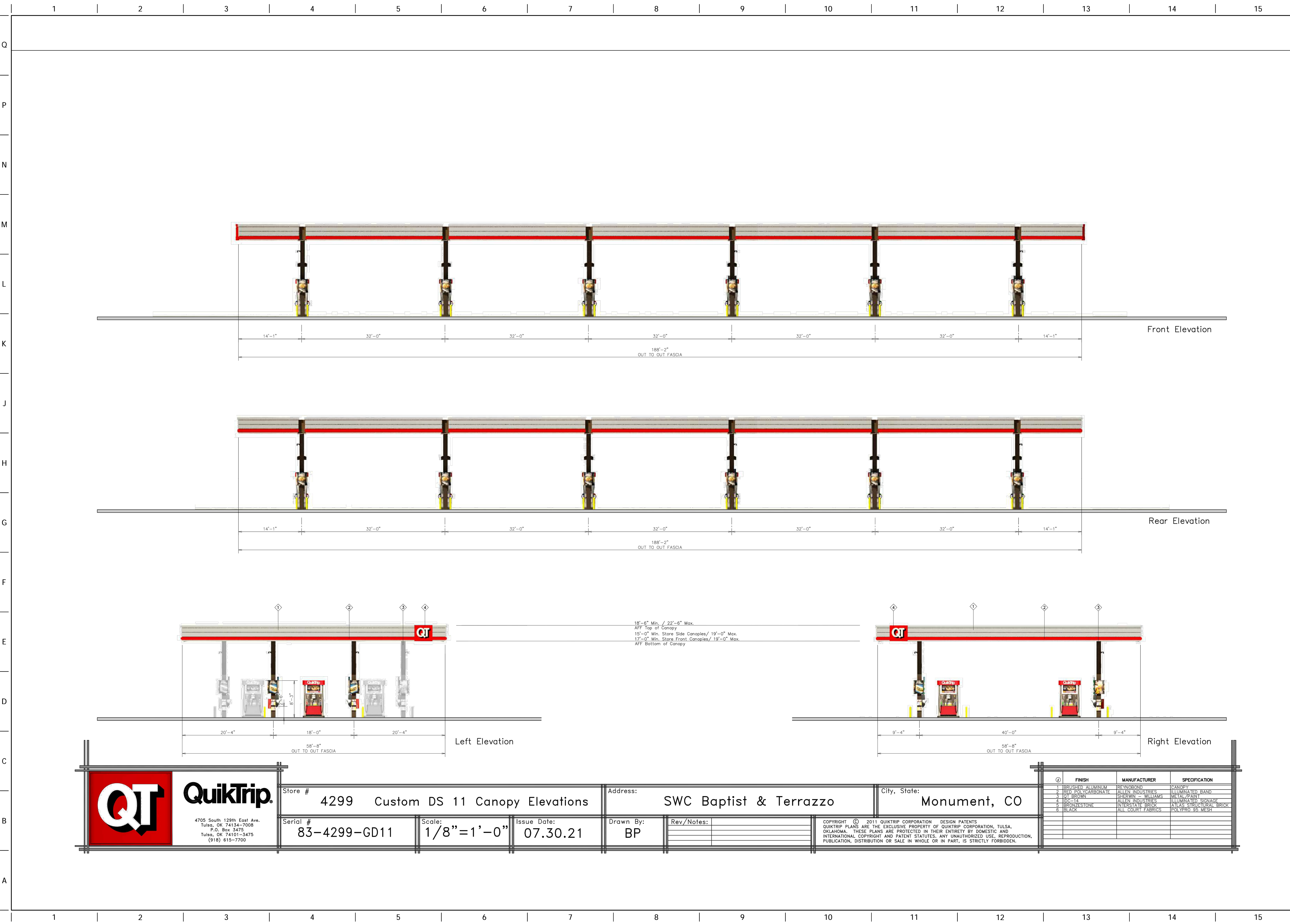
ORIGINAL ISSUE DATE: 9/24/2021



Store #	4299	6 Bay Diesel Canopy	Address:	SWC Baptist & Terrazzo	City, State:	Monument, CO	
Serial #	83-4299-DV06	Scale:	1/16" = 1'-0"	Issue Date:	07.30.21	Drawn By:	BP
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①	FINISH	MANUFACTURER	SPECIFICATION
1	BRUSHED ALUMINUM	BRUNSON	CANOPY
2	RED POLY CARBONATE	ALLIED INDUSTRIES	ILLUMINATED BAND
3	QT BROWN	SHERWIN - WILLIAMS	METAL PAINT
4	QT-NO	ALLIED INDUSTRIES	ILLUMINATED SIGNAGE
5	BRONZE/STONE	INTERSTATE BRICK	ALIAS STRUCTURAL BRICK
6	BLACK	ALL COURT FABRICS	POLYESTER 55% MESH

FILE LOCATION: \\QuikTrip\QuikTrip\04299-Monument\_CD\CV\2-Plan\85-4299-Civil.dwg TAB NAME: Elevations (PUD) (3) USER: duncan\_rady SWED: 11/12/2021 7:44 AM PLOTTED: 11/12/2021 12:21 PM



PROJECT NO.: QKT004299

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 DIVISION: 83  
 VERSION: D01  
 DESIGNED BY: DLR  
 DRAWN BY: DLR  
 REVIEWED BY: ACJ

REV	DATE	DESCRIPTION

SHEET TITLE:  
**BUILDING ELEVATIONS**

SHEET NUMBER:  
**42**

ORIGINAL ISSUE DATE: 9/24/2021

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 4705 South 129th East Ave.  
 Tulsa, OK 74134-7008  
 P.O. Box 3475  
 Tulsa, OK 74101-3475  
 (918) 615-7700

Store #	4299	Custom DS 11 Canopy Elevations	Address:	SWC Baptist & Terrazzo	City, State:	Monument, CO	
Serial #	83-4299-GD11	Scale:	1/8" = 1'-0"	Issue Date:	07.30.21	Drawn By:	BP
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Q	FINISH	MANUFACTURER	SPECIFICATION
1	BRUSHED ALUMINUM	RAYBORND	HANOPY
2	RED POLYCARBONATE	ALLEN INDUSTRIES	ILLUMINATED BAND
3	10' BROWN	SHERWIN - WILLIAMS	PAINT
4	10'-14'	ALLEN INDUSTRIES	ILLUMINATED SIGNAGE
5	BRONZESTONE	INTERSTATE BRICK	PAVING STRUCTURAL BRICK
6	BLACK	ALL COURT FABRICS	POLYPRO 85 MESH