

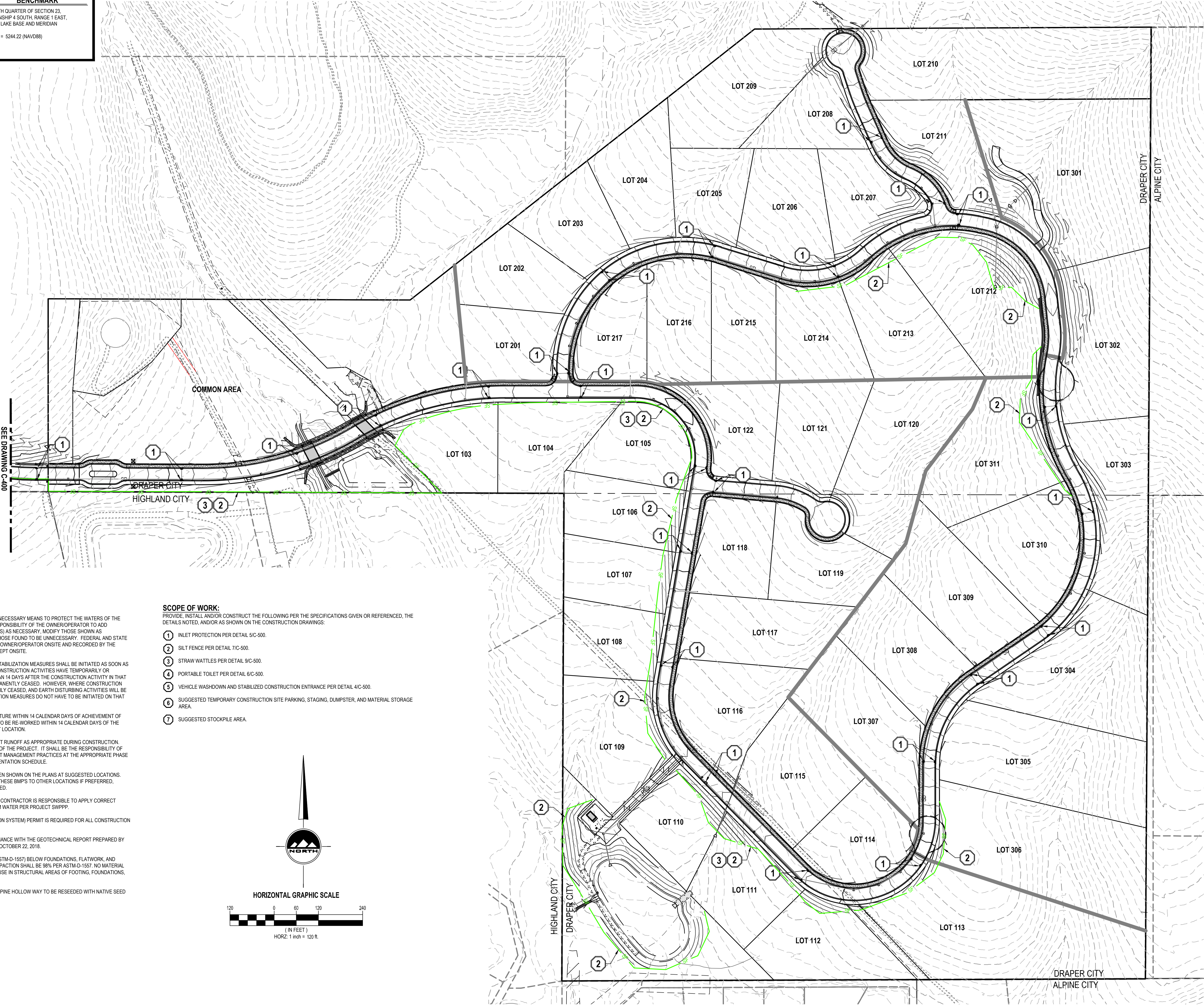
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BENCHMARK

NORTH QUARTER OF SECTION 23,
TOWNSHIP 4 SOUTH, RANGE 1 EAST,
SALT LAKE BASE AND MERIDIAN
ELEV = 5244.22 (NAVD88)



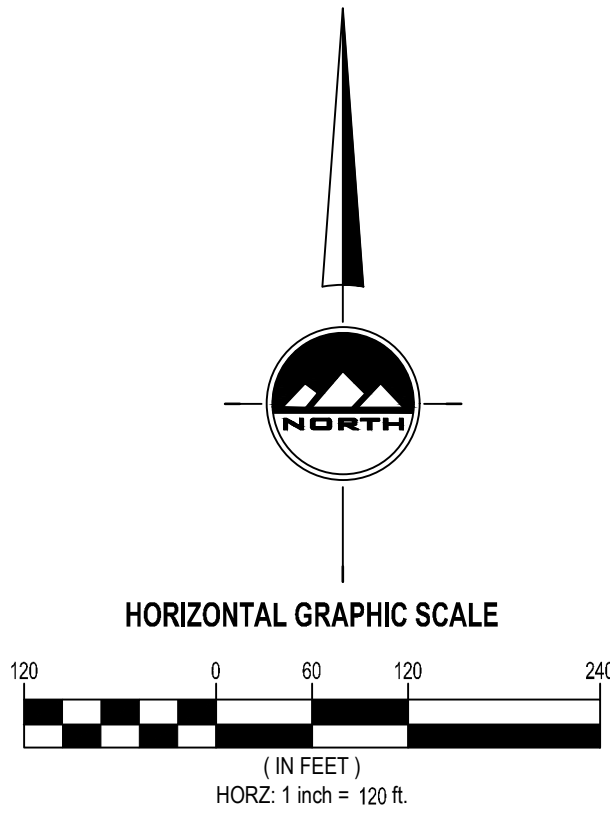
GENERAL NOTES

- THIS PLAN IS DESIGNED AS A FIRST APPRAISAL. OF NECESSARY MEANS TO PROTECT THE WATERS OF THE STATE FROM POTENTIAL POLLUTION. IT IS THE RESPONSIBILITY OF THE OWNER/OPERATOR TO ADD WARRANTED BEST MANAGEMENT PRACTICES (BMPs) AS NECESSARY, MODIFY THOSE SHOWN AS APPROPRIATE, AND DELETE FROM THE PROJECT THOSE FOUND TO BE UNNECESSARY. FEDERAL AND STATE LAW ALLOWS THESE UPDATES TO BE MADE BY THE OWNER/OPERATOR ONSITE AND RECORDED BY THE OWNER/OPERATOR ON THE COPY OF THE SWPPP KEPT ONSITE.
- DISTURBED LAND SHALL BE KEPT TO A MINIMUM. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. HOWEVER, WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 21 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- RESEED DISTURBED LAND WITH NATIVE GRASS MIXTURE WITHIN 14 CALENDAR DAYS OF ACHIEVEMENT OF FINISH GRADE TO STABILIZE SOILS IF LAND IS NOT TO BE RE-WORKED WITHIN 14 CALENDAR DAYS OF THE CESSATION OF CONSTRUCTION ACTIVITIES AT THAT LOCATION.
- DETAILS SHOWN ARE TO BE EMPLOYED TO PROTECT RUNOFF AS APPROPRIATE DURING CONSTRUCTION. NOT ALL DETAILS ARE NECESSARY AT ALL PHASES OF THE PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE OWNER/OPERATOR TO USE APPROPRIATE BEST MANAGEMENT PRACTICES AT THE APPROPRIATE PHASE OF CONSTRUCTION. SEE SWPPP FOR BMP IMPLEMENTATION SCHEDULE.
- VARIOUS BEST MANAGEMENT PRACTICES HAVE BEEN SHOWN ON THE PLANS AT SUGGESTED LOCATIONS. THE CONTRACTOR MAY MOVE AND RECONFIGURE THESE BMPs TO OTHER LOCATIONS IF PREFERRED, PROVIDED THE INTENT OF THE DESIGN IS PRESERVED.
- NOT ALL POSSIBLE BMPs HAVE BEEN SHOWN. THE CONTRACTOR IS RESPONSIBLE TO APPLY CORRECT MEASURES TO PREVENT THE POLLUTION OF STORM WATER PER PROJECT SWPPP.
- A UPODES (UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM) PERMIT IS REQUIRED FOR ALL CONSTRUCTION ACTIVITIES 1 ACRE OR MORE.
- ALL ROUGH GRADING TO BE COMPLETED IN COMPLIANCE WITH THE GEOTECHNICAL REPORT PREPARED BY GEOSTRATA, "THE SEQUOIAS SUBDIVISION" DATED OCTOBER 22, 2018.
- COMPACTION TO MEET 95% MODIFIED PROCTOR (ASTM-D-1557) BELOW FOUNDATIONS, FLATWORK, AND PAVEMENTS. IN FILL AREAS GREATER THAN 6" COMPACTION SHALL BE 98% PER ASTM-D-1557. NO MATERIAL REFLECTING PINHOLE CHARACTERISTIC SHALL BE USE IN STRUCTURAL AREAS OF FOOTING, FOUNDATIONS, ROAD, BUILDINGS, ETC.
- ALL SLOPES (DISTURBED OR CONSTRUCTED) ON ALPINE HOLLOW WAY TO BE RESEEDD WITH NATIVE SEED MIX PER UDOT SPECIFICATION 02922.

SCOPE OF WORK:

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- INLET PROTECTION PER DETAIL 5/C-500.
- SILT FENCE PER DETAIL 7/C-500.
- STRAW WATTLES PER DETAIL 9/C-500.
- PORTABLE TOILET PER DETAIL 6/C-500.
- VEHICLE WASHDOWN AND STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 4/C-500.
- SUGGESTED TEMPORARY CONSTRUCTION SITE PARKING, STAGING, DUMPSTER, AND MATERIAL STORAGE AREA.
- SUGGESTED STOCKPILE AREA.



EN SIGN

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Phone: 801.547.1100

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CEDAR CITY

Phone: 435.865.1453

RICHFIELD

Phone: 435.896.2983

WWW.ENSIGNENG.COM

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TRIUMPH DESIGN BUILD
5151 SOUTH 900 EAST, STE. 250
SALT LAKE CITY, UTAH 84117
CONTACT:
DAVID KILLPACK
PHONE: 801-716-3222

ALPINE HOLLOW SUBDIVISION

15900 SOUTH 2800 EAST
DRAPER, UTAH

PROFESSIONAL ENGINEER
No. 169379
ROBERT Q. ELDER
8-25-25
STATE OF UTAH

EROSION CONTROL PLAN

PROJECT NUMBER
8884C

PRINT DATE
8/18/25

DRAWN BY
J. GERA

CHECKED BY
R. ELDER

PROJECT MANAGER
R. ELDER

C-401

811

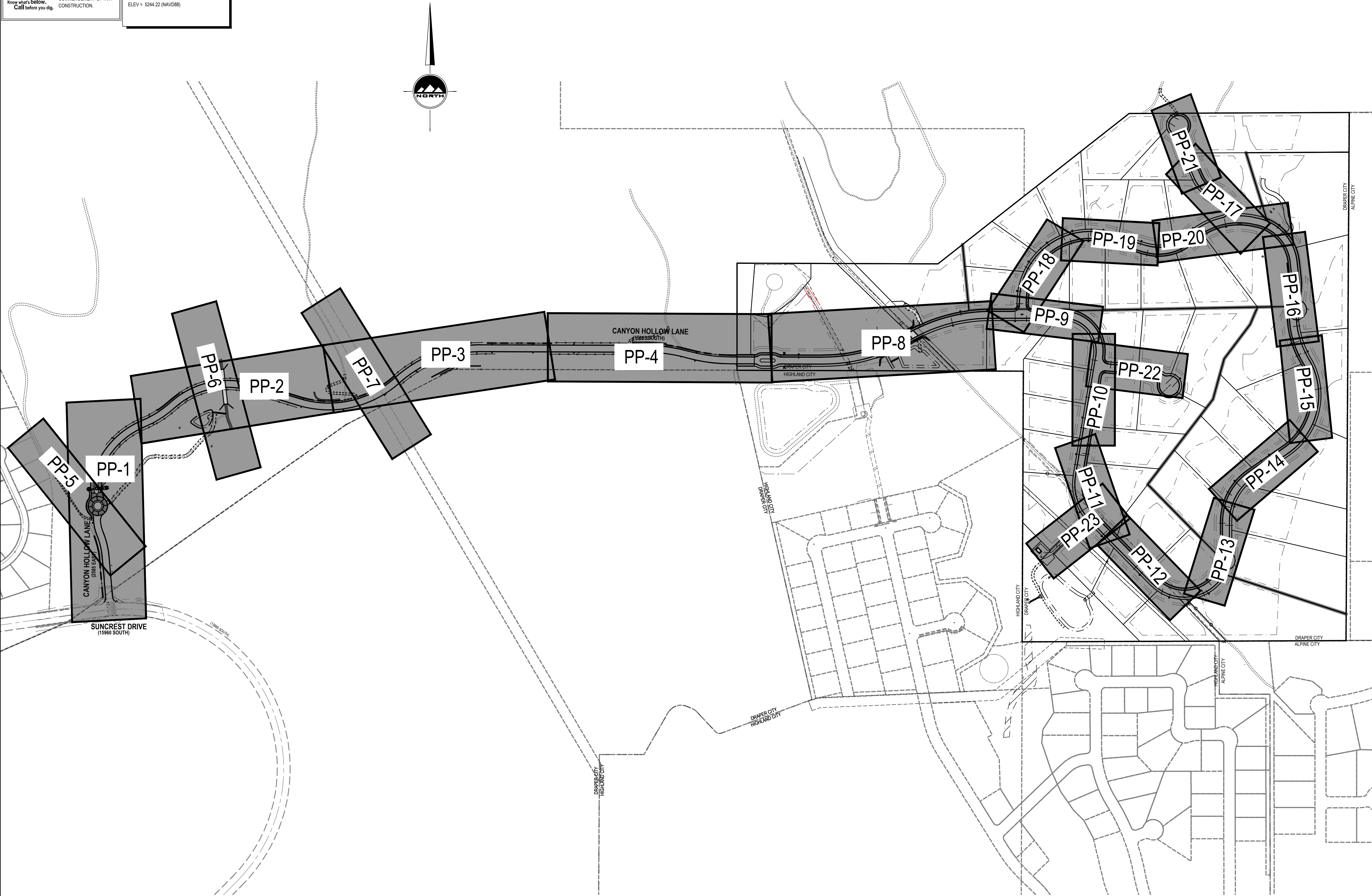
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ELEV = 5244.22 (NAVD88)



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SHEET INDEX

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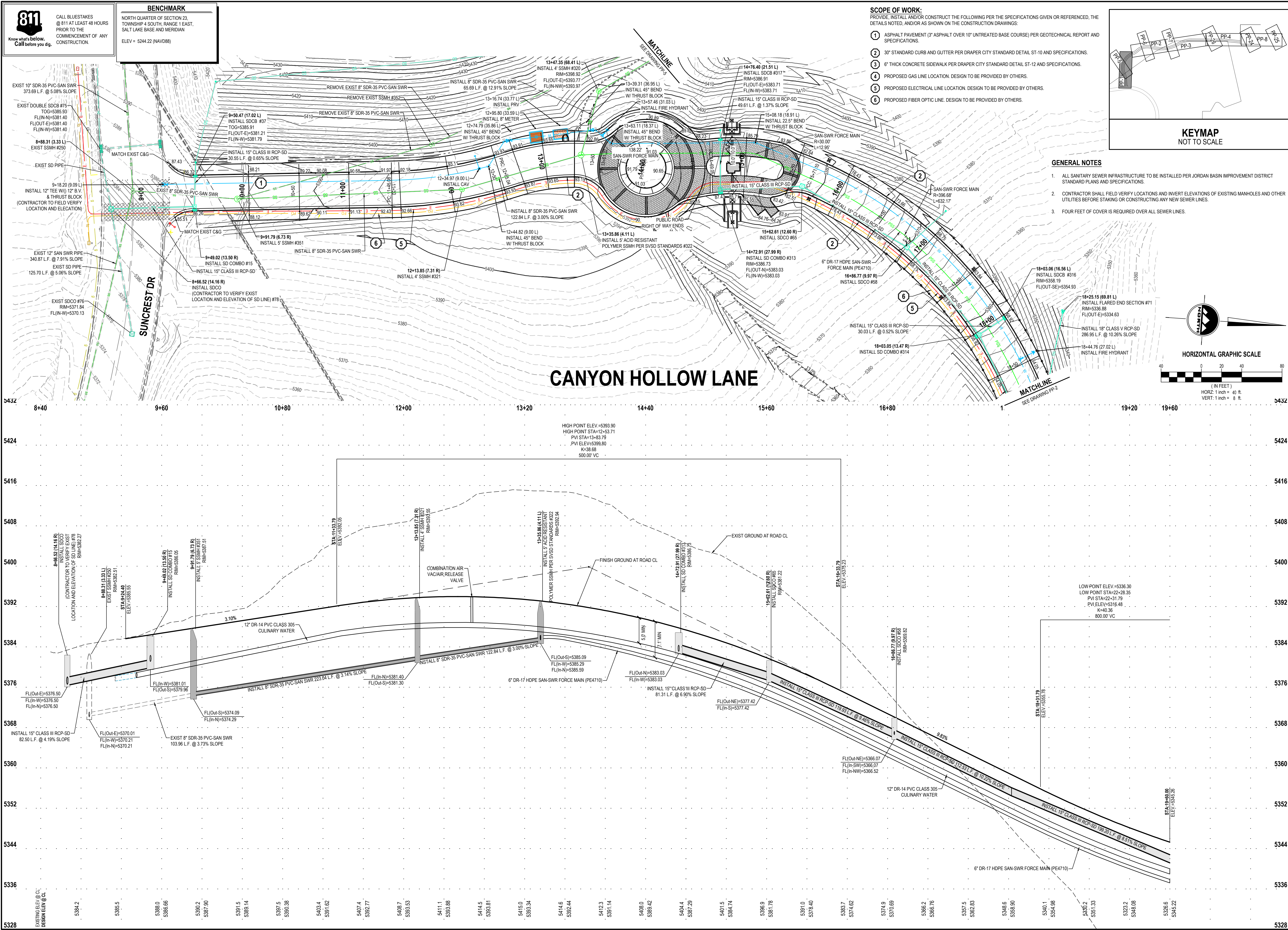
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PP-00



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CANYON HOLLOW LANE
PLAN AND PROFILE

PP-1

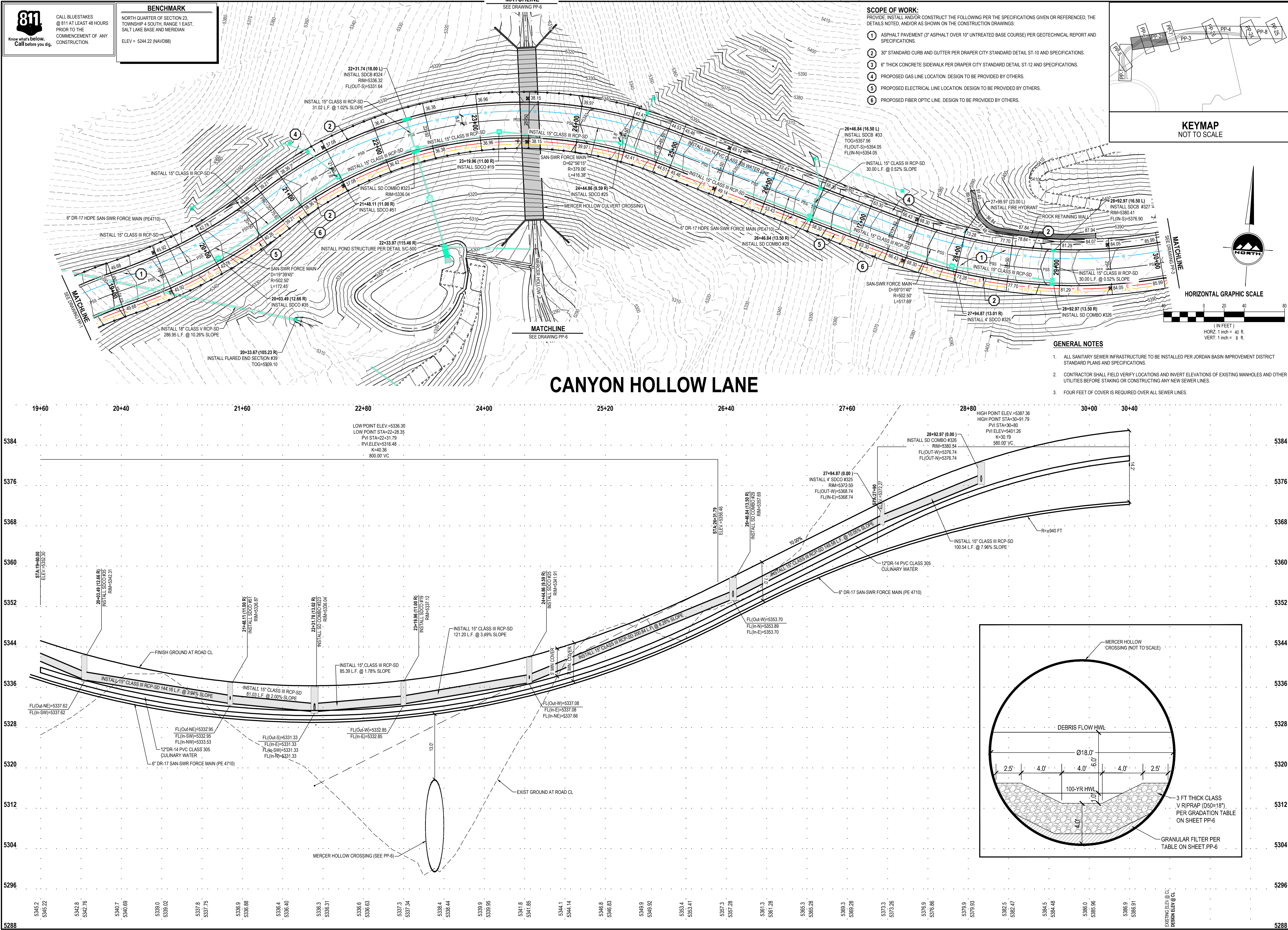
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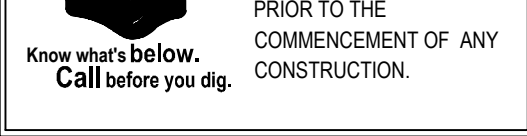
CHECKED BY
R. ELDER

PROJECT MANAGER
R. ELDER

PP-2

NORTH QUARTER OF SECTION 23,
TOWNSHIP 4 SOUTH, RANGE 1 EAST,
SALT LAKE BASE AND MERIDIAN

ELEV = 5244.33'

[illegible]

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

-

HORZ: 1 inch = 40 f

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This sanitary sewer layout plan illustrates the proposed sewer line from station 30+40 to 41+60. The plan includes the following details:

- Stationing and Elevation:** Stationing is marked every 20 feet from 30+40 to 41+60. Elevation is shown on the left (5296 to 5392) and right (5304 to 5392) margins.
- Proposed Sewer Line:** The main sewer line is shown as a solid line with a dashed centerline. It starts at station 30+40 and ends at station 41+60. The line is labeled "INSTALL 15" CLASS III RCP-SD" with various lengths and slopes (e.g., 9.31% slope, 9.63% slope, 6.25% slope, 5.54% slope, 3.39% slope).
- Manholes and Structures:** Several manholes are indicated with labels like "INSTALL 5' DIA. CONCRETE MH", "INSTALL 15" CLASS III RCP-SD", and "INSTALL 15" CLASS III RCP-SD".
- Property Boundaries:** The plan shows the "MWD/S/L PROPERTY BOUNDARY" and the "METRO WATER DISTRICT OF SALT LAKE AND SANDY (MWD/S/L) PROPERTY BOUNDARY".
- Other Features:** The plan includes labels for "EXISTING CONCRETE LINED ALPINE-DRAPEL NON CIRCULAR TUNNEL (SALT LAKE AQUEDUCT)", "EXIST GROUND AT ROAD CL", "FINISH GROUND AT ROAD CL", "COMBINATION AIR VAC/AIR RELEASE VALVE", "12" DR-14 PVC CLASS 305 CULINARY WATER", and "6" DR-17 HDPE SAN-SWR FORCE MAIN (PE4710)".
- Notes:** A note at station 30+40 states: "NOTE: SET TOP OF VENTOMAT RGXII NO HIGHER THAN 5375.53".

**15900 SOUTH 2800 EAST
DRAPER, UTAH**



PP-3

BENCHMARK

NORTH QUARTER OF SECTION 23,
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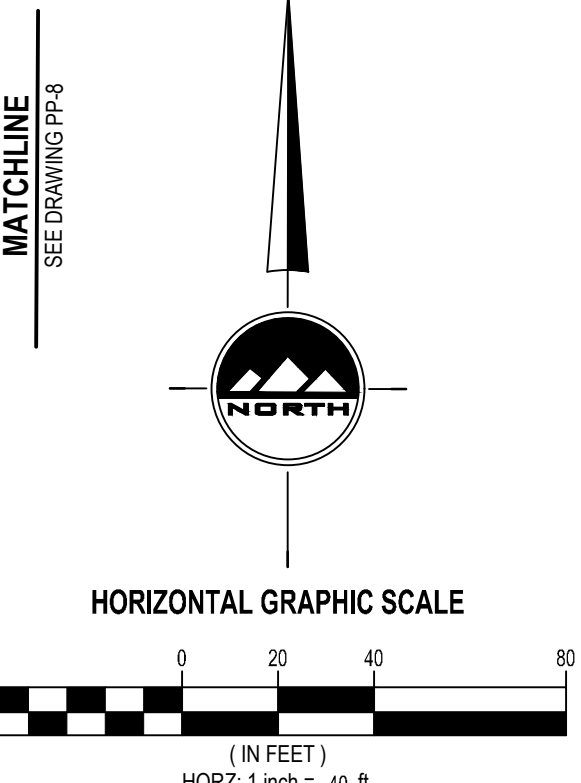
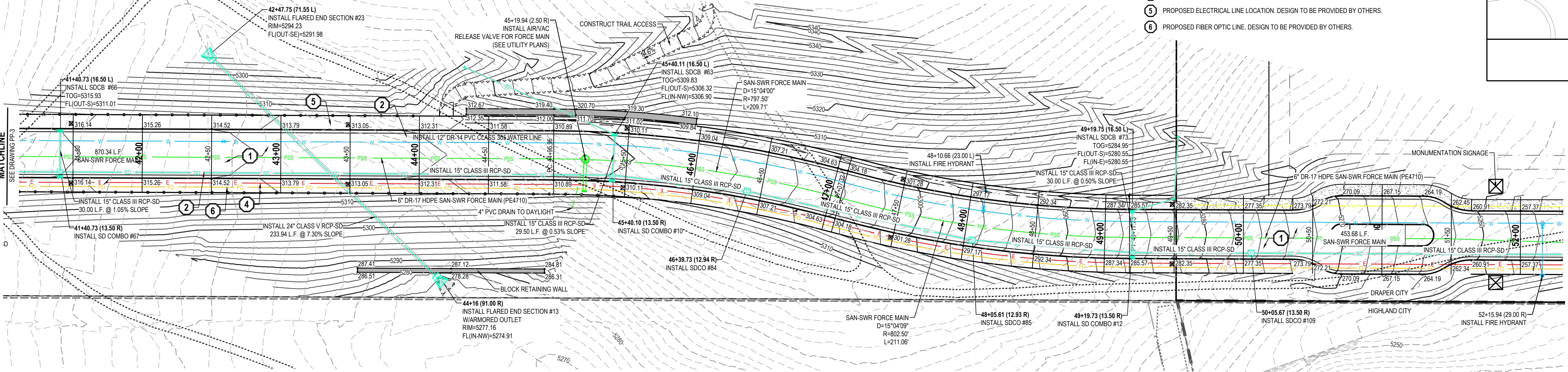
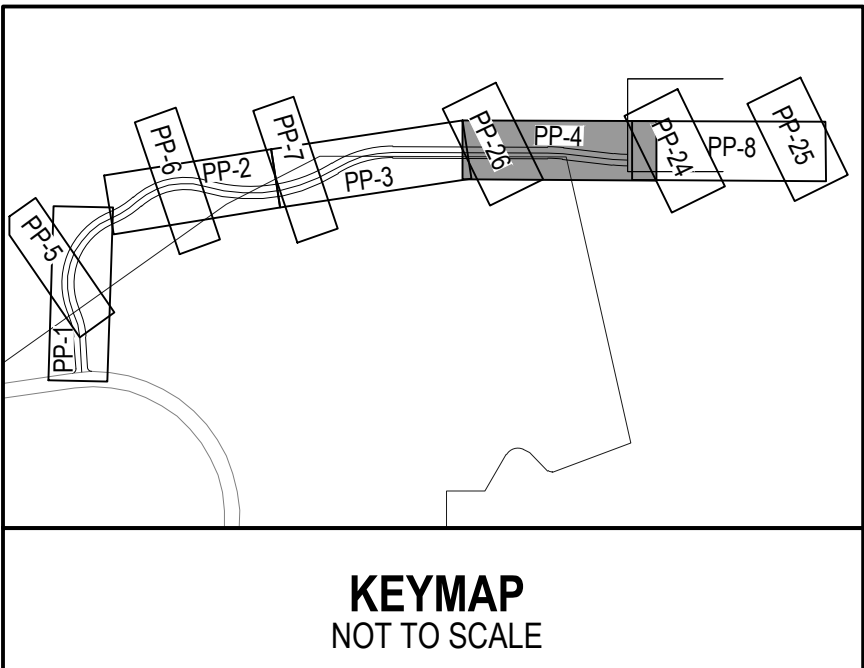
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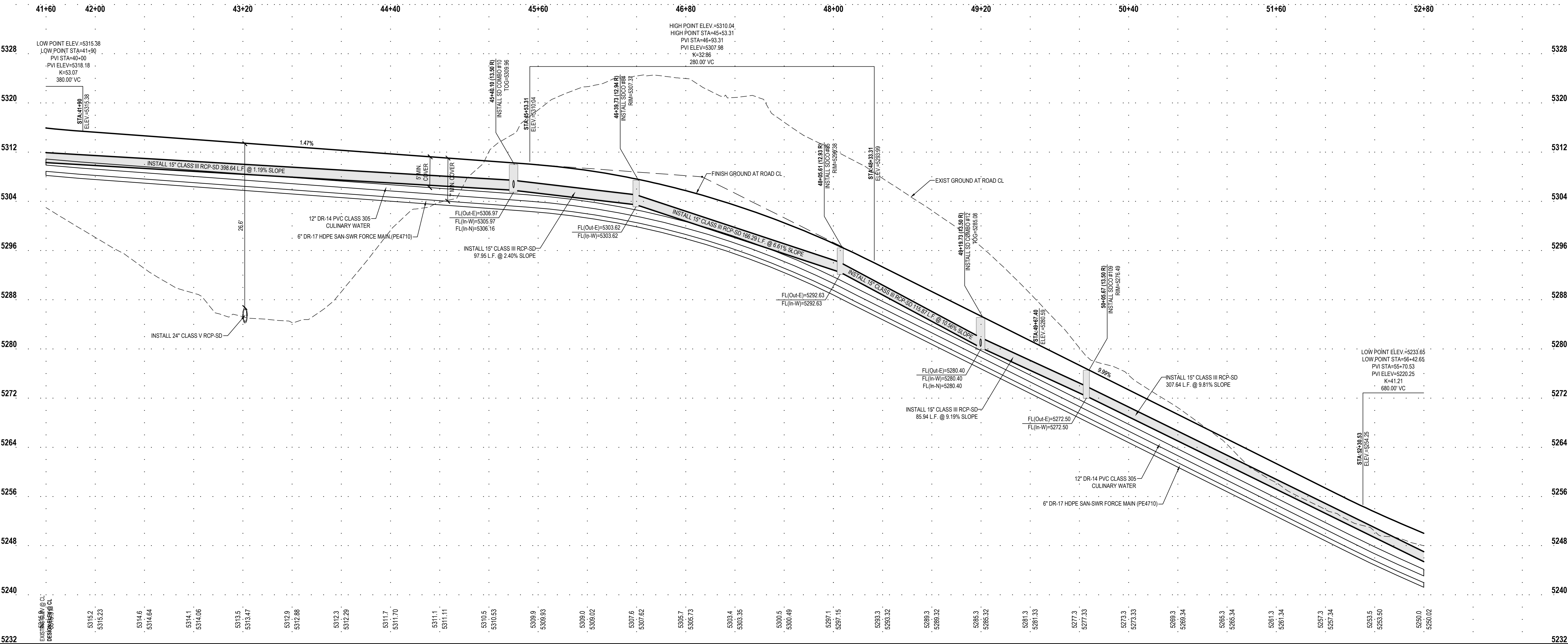
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CANYON HOLLOW LANE



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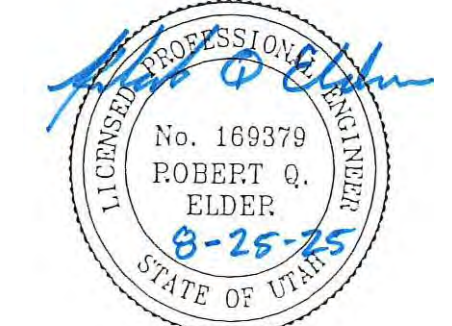
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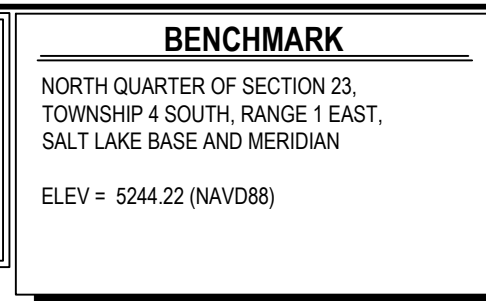
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PHONE: 801-716-3222

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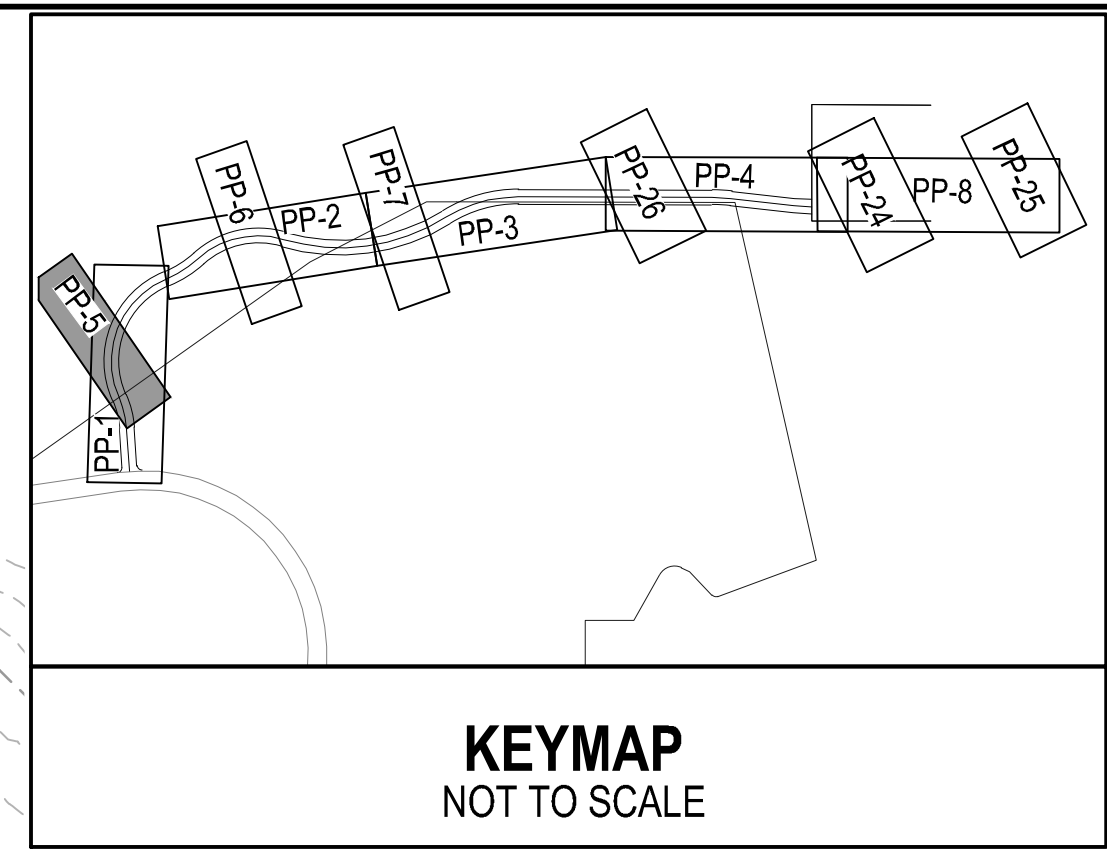
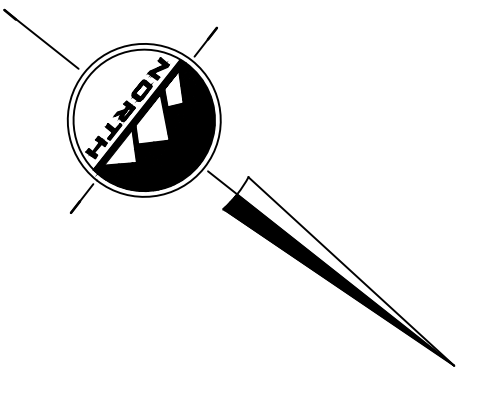


CANYON HOLLOW LANE
PLAN AND PROFILE

PROJECT NUMBER: 8884C
PRINT DATE: 8/18/25
DRAWN BY: J. GERA
CHECKED BY: R. ELDER
PROJECT MANAGER: R. ELDER



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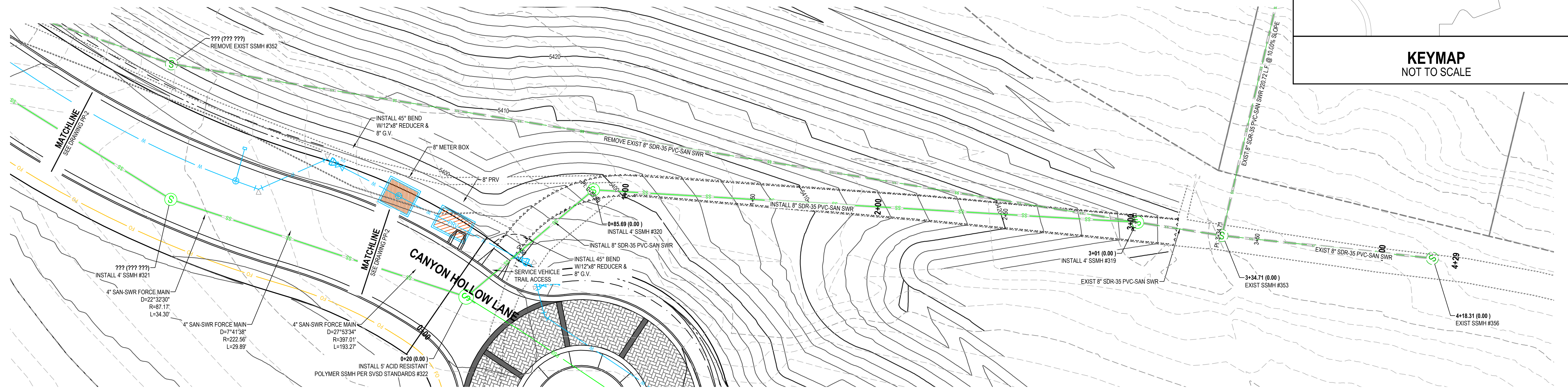
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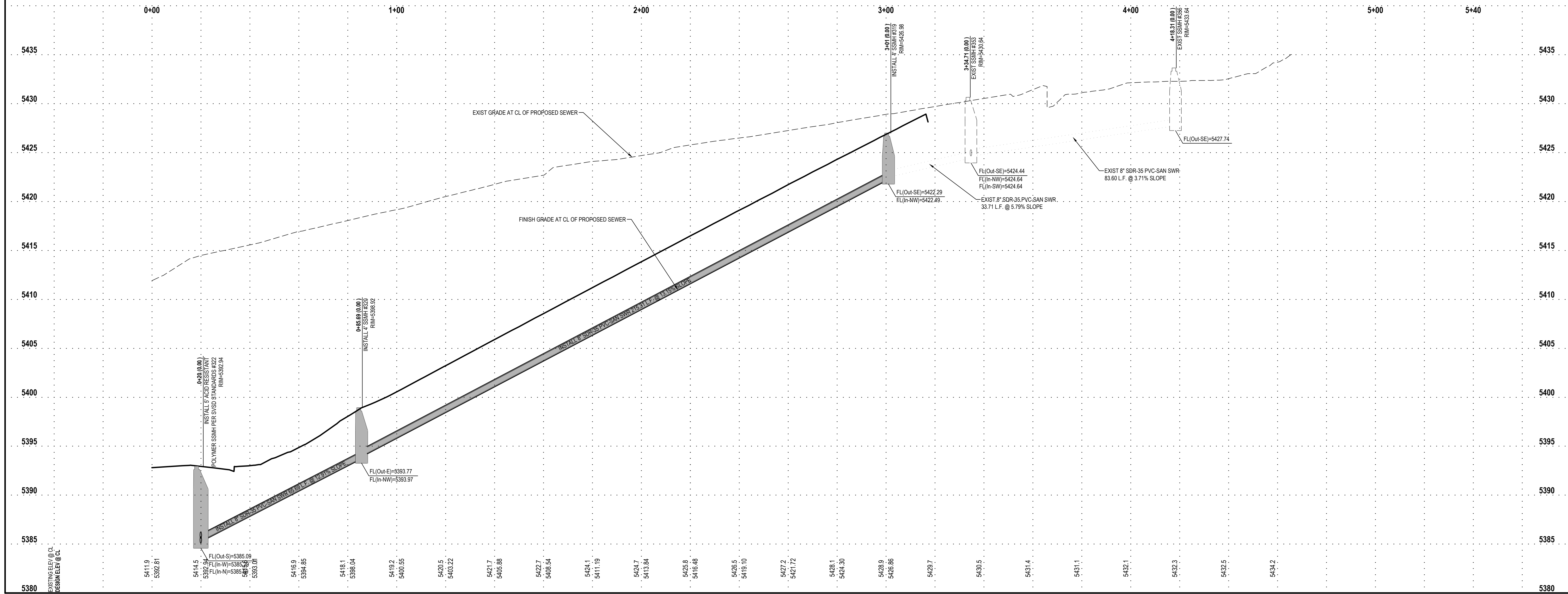
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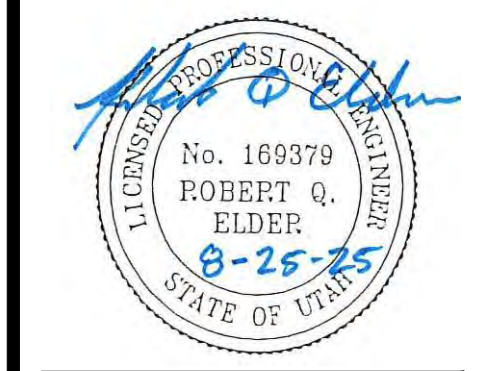
CONTACT:
DAVID KILLPACK
PHONE: 801-718-3222



OFFSITE SEWER



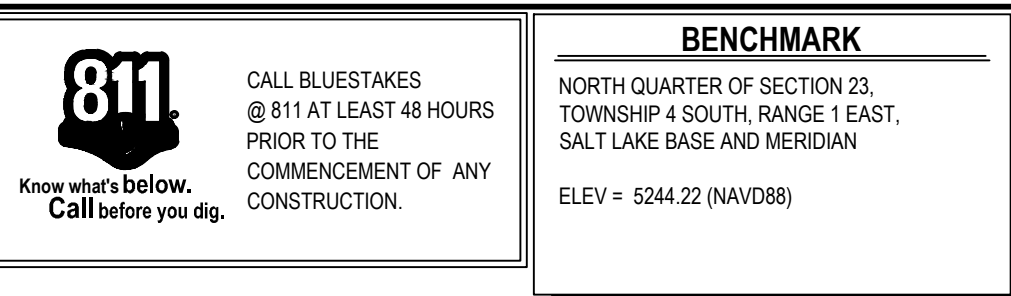
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OFFSITE SEWER PLAN AND PROFILE

PROJECT NUMBER	PRINT DATE
8684C	8/18/25
DRAWN BY	CHECKED BY
J. GERA	R. ELDER
PROJECT MANAGER	
R. ELDER	

PP-5



GRANULAR FILTER GRADATIONS	
% Smaller Than Given Size by Given Weight	Size (Inches)
90-100	3
35-90	3/4
0-30	No. 4
0-15	No. 16
0-3	No. 200

LOOSE RIPRAP GRADATIONS			
Riprap Designation	% Smaller Than Given Size by Given Weight	Size (Inches)	D50 (Inches)
Class V	70-100	30	18
	50-70	24	
	35-50	18	
	2-10	6	

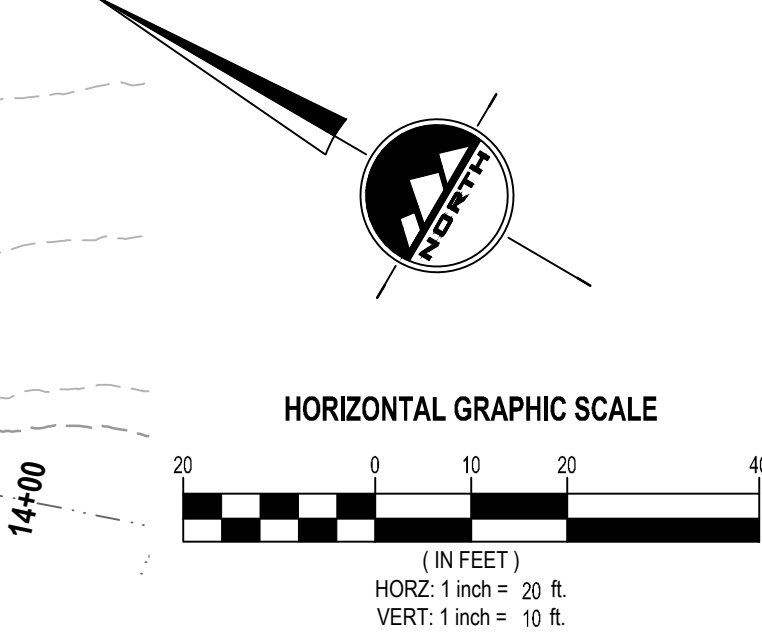
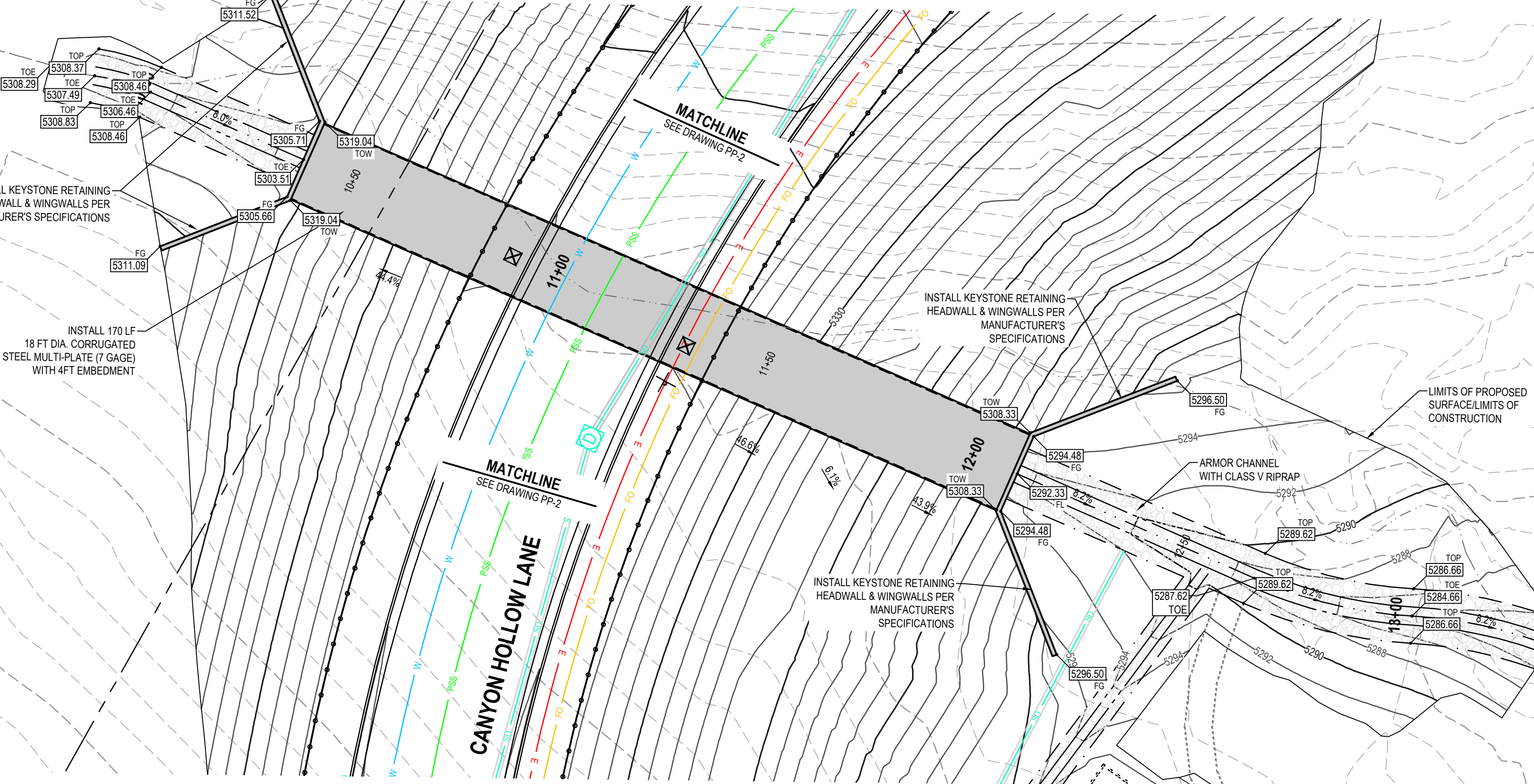
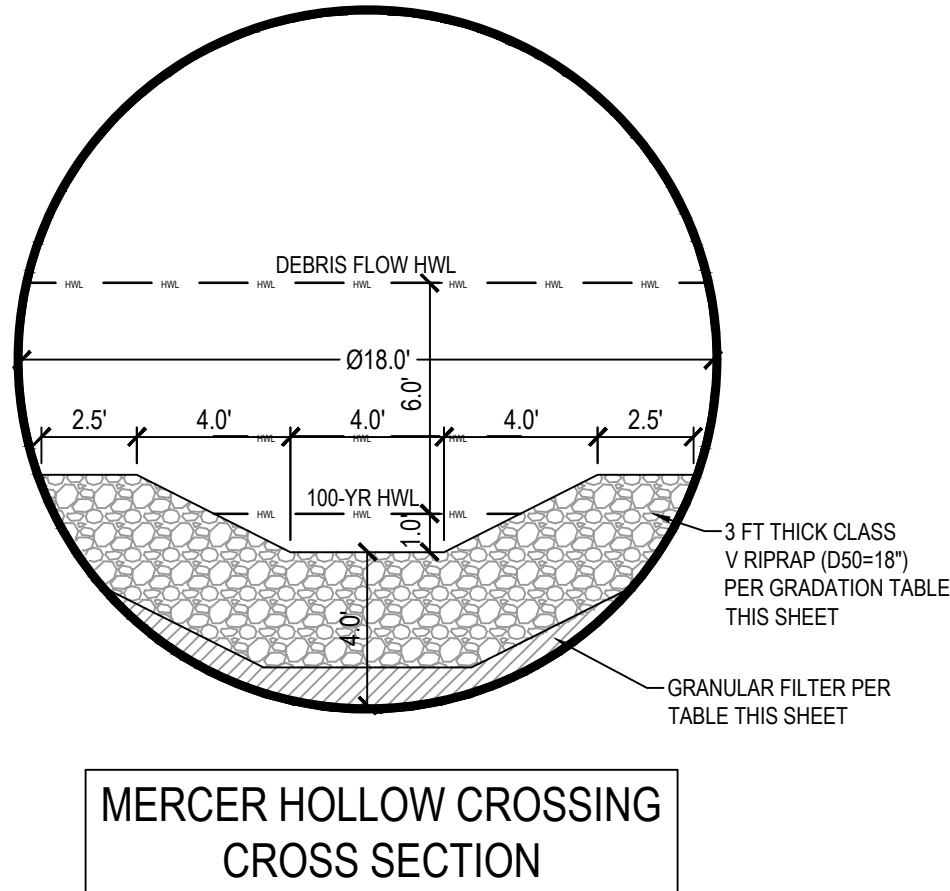
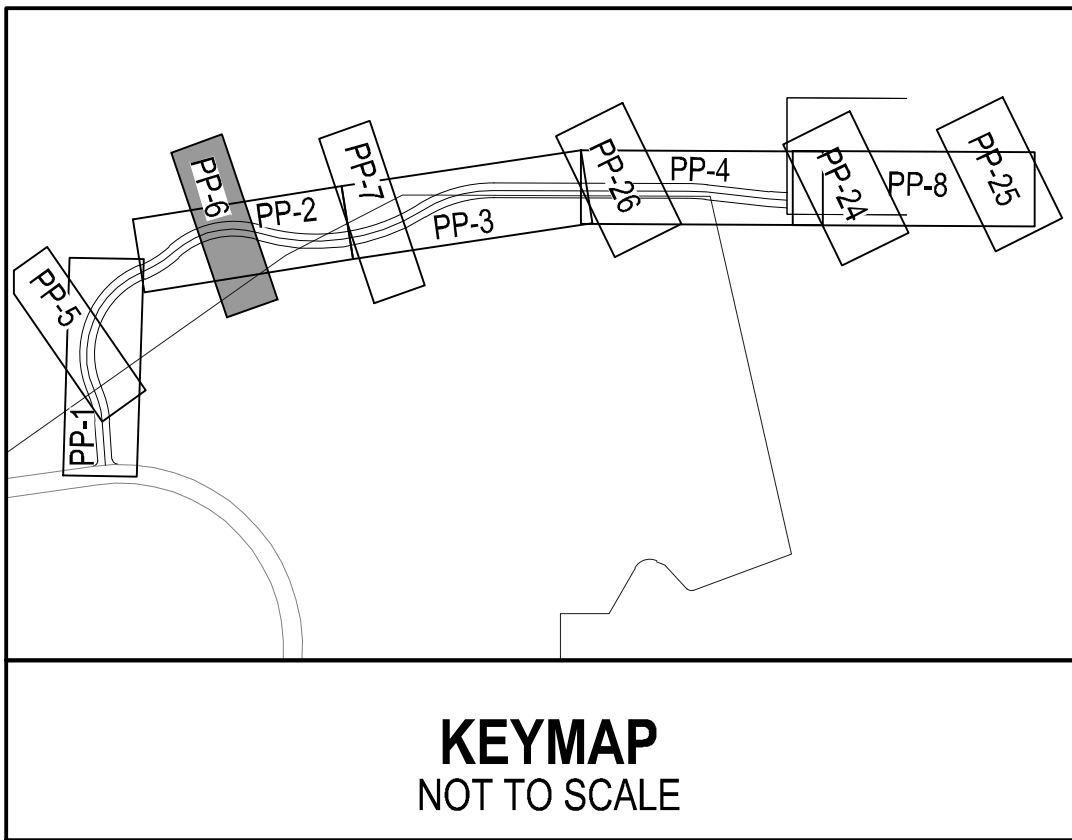
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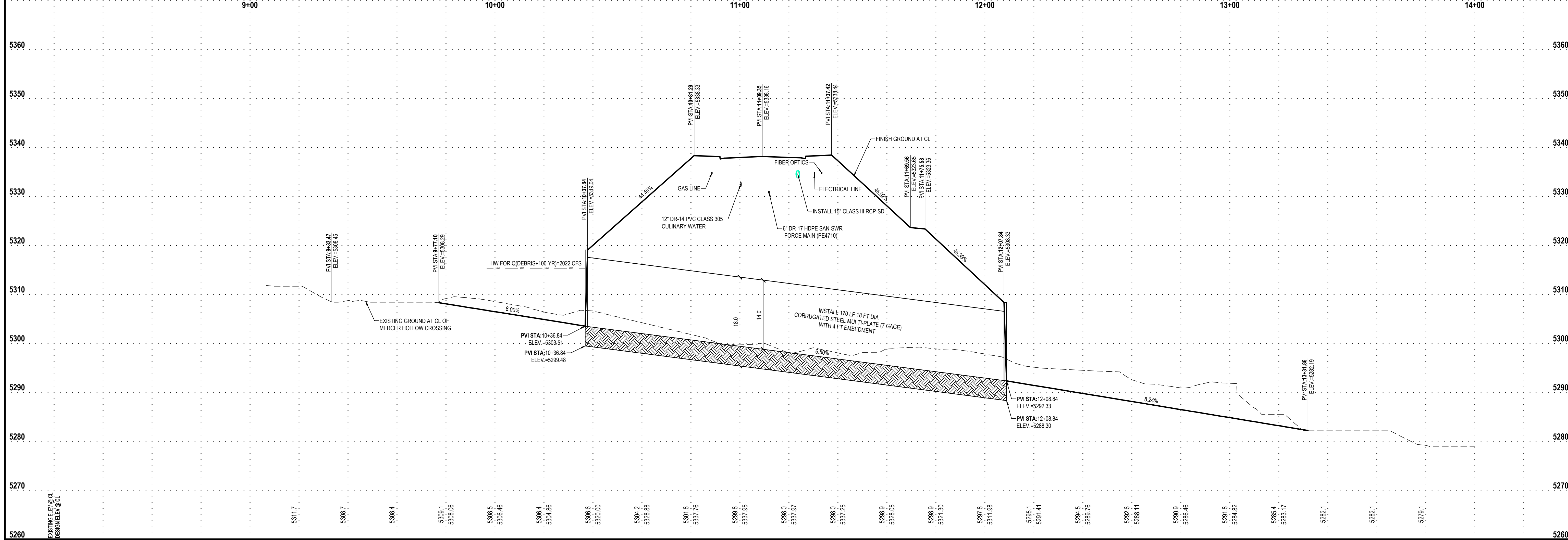
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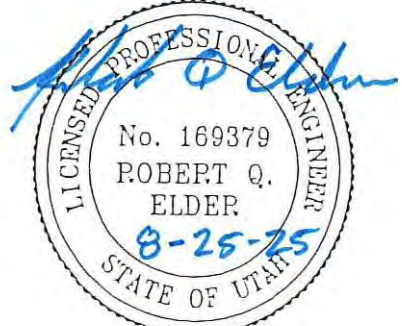
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CONTACT:
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PHONE: 801-718-3222

ALPINE HOLLOW SUBDIVISION

**15900 SOUTH 2800 EAST
DRAPER, UTAH**



MERCER HOLLOW DRAINAGE PLAN AND PROFILE

PROJECT NUMBER	PRINT DATE
84C	8/18/25
DRAWN BY	CHECKED BY
GERA	R. ELDER
PROJECT MANAGER	
ELDER	

PP-6

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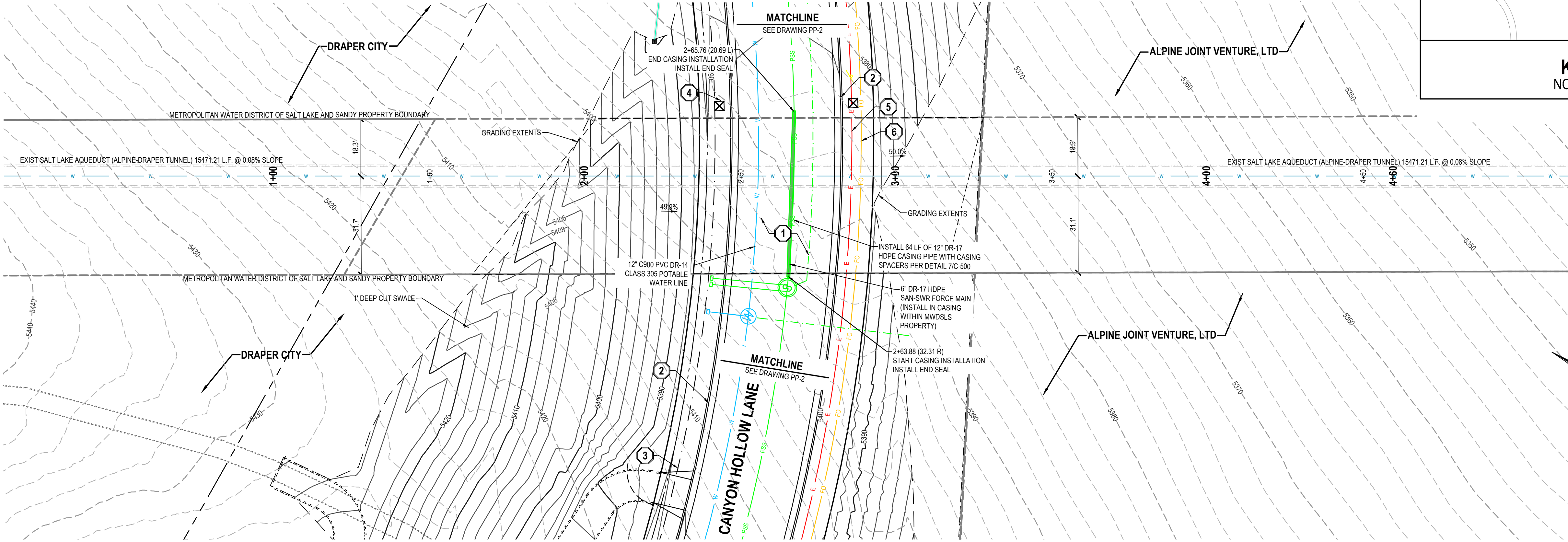
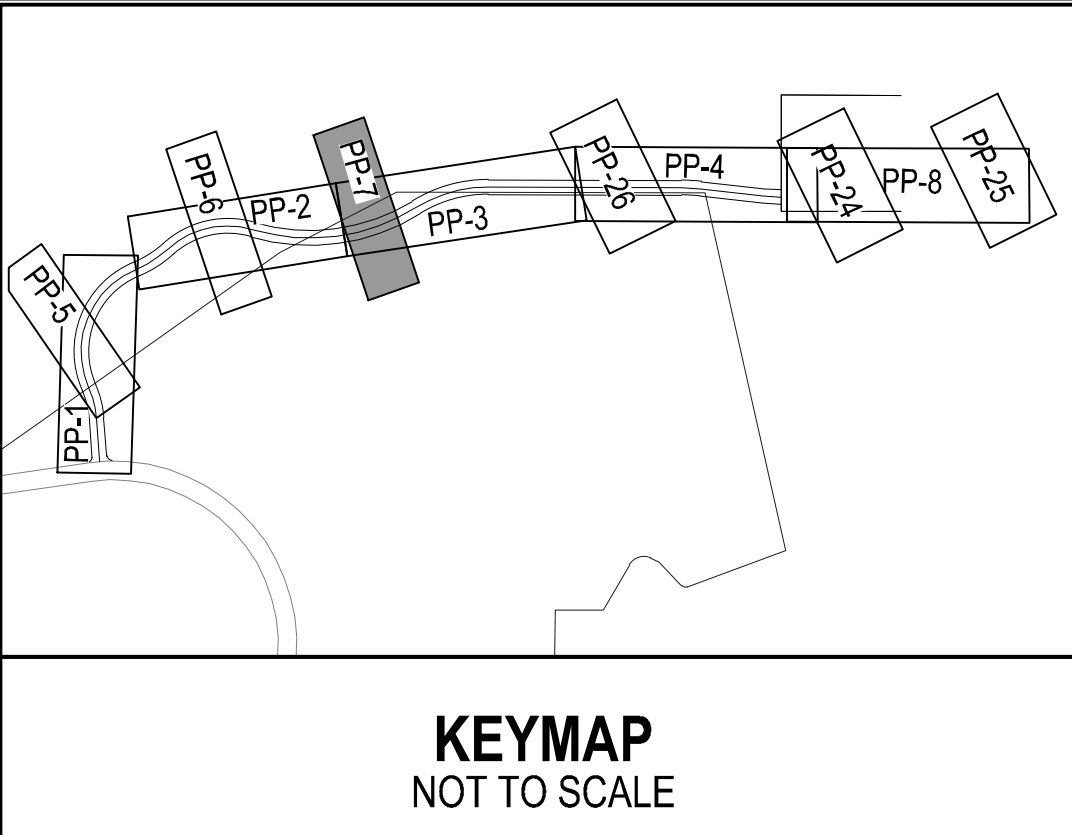
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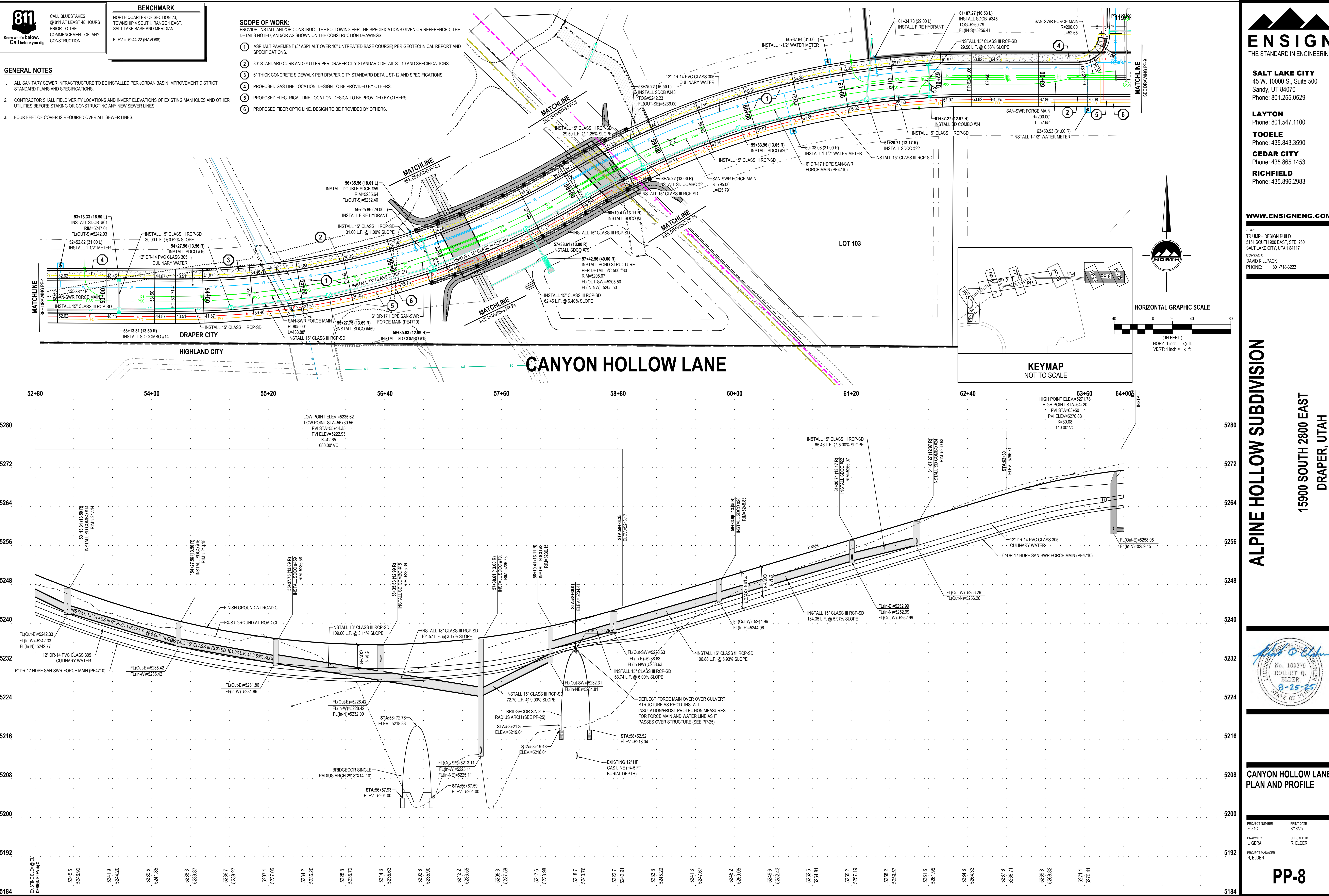
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FOR:
TRIUMPH DESIGN BUILD
5151 SOUTH 900 EAST, STE. 250
SALT LAKE CITY, UTAH 84117

CONTACT:
DAVID KILLPACK
PHONE: 801-716-3222

ALPINE HOLLOW SUBDIVISION

15900 SOUTH 2800 EAST
DRAPER, UTAH

CANYON HOLLOW LANE
PLAN AND PROFILE

PP-8

PROJECT NUMBER
8884C

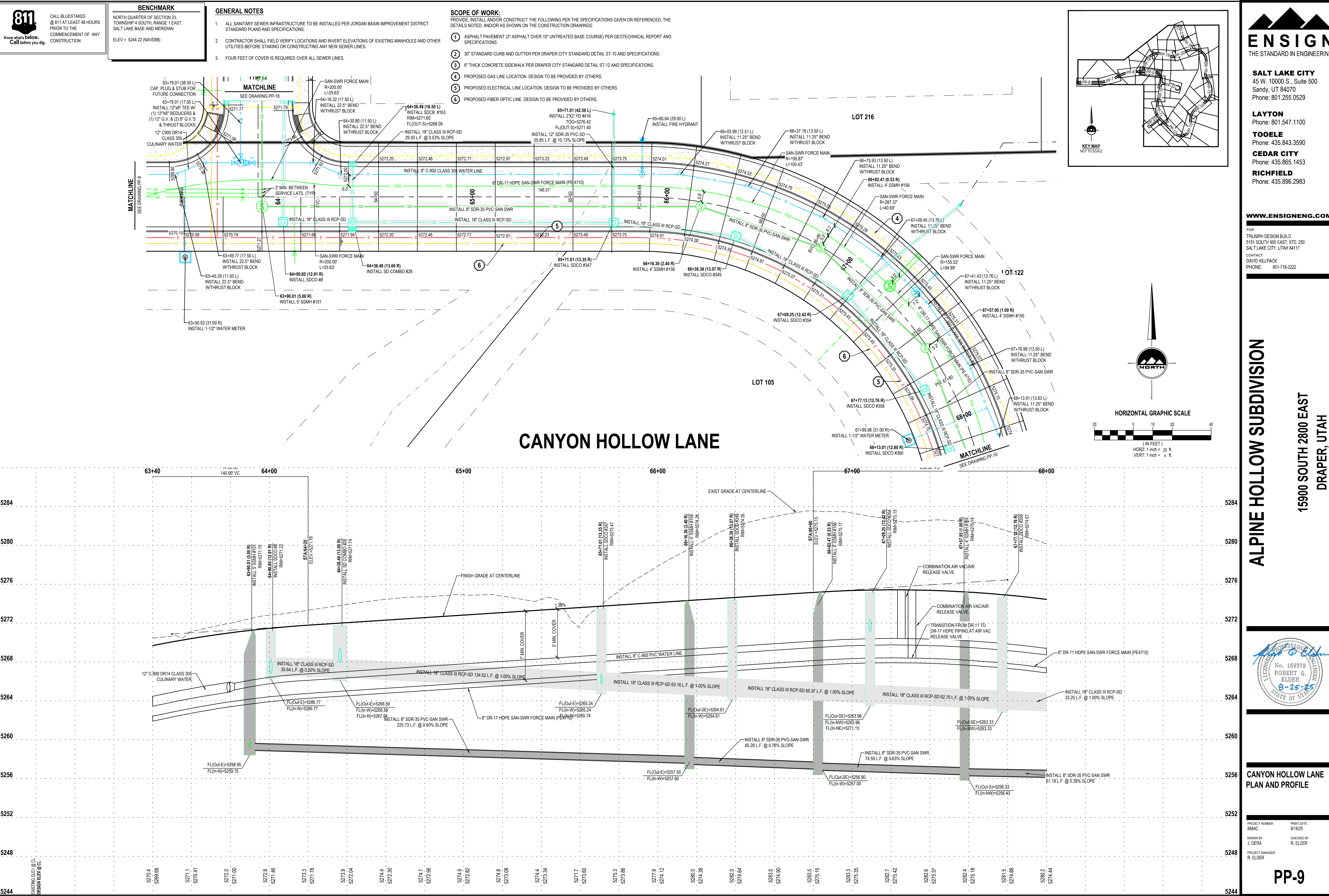
PRINT DATE
8/18/25

DRAWN BY
J. GERA

CHECKED BY
R. ELDER

PROJECT MANAGER
R. ELDER

ROBERT Q. ELDER
No. 169379
8-25-25
STATE OF UTAH

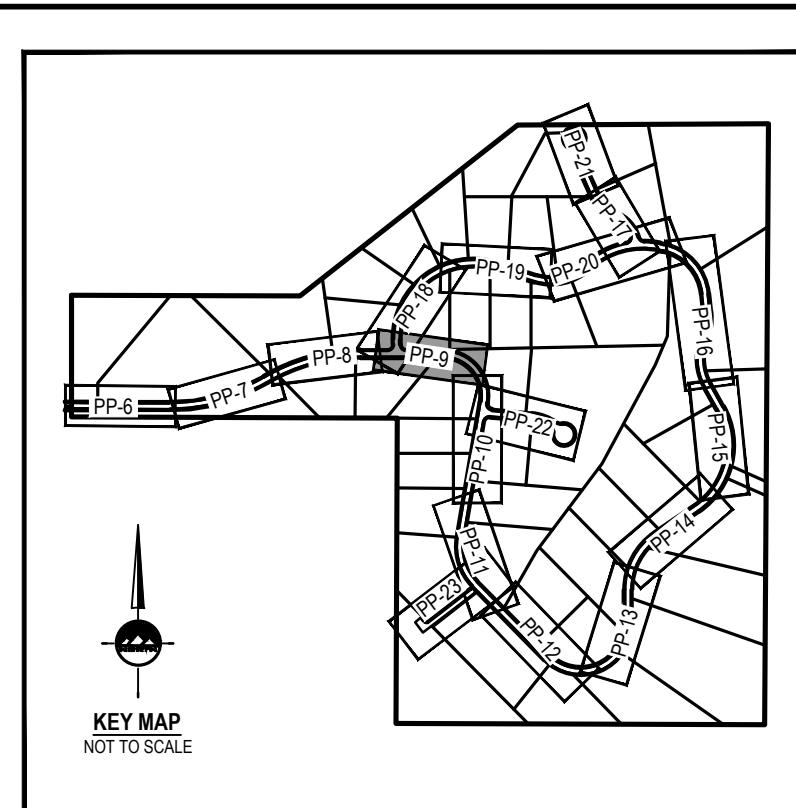


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BENCHMARK
NORTH QUARTER OF SECTION 23,
TOWNSHIP 4 SOUTH, RANGE 1 EAST,
SALT LAKE BASE AND MERIDIAN
ELEV = 5244.22 (NAVD88)

GENERAL NOTES
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3. 6" THICK CONCRETE SIDEWALK PER DRAPER CITY STANDARD DETAIL ST-12 AND SPECIFICATIONS.
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6. PROPOSED FIBER OPTIC LINE. DESIGN TO BE PROVIDED BY OTHERS.



EN SIGN
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LAYTON
Phone: 801.547.1100

TOOELE
Phone: 435.843.3590

CEDAR CITY
Phone: 435.865.1453

RICHFIELD
Phone: 435.896.2983

WWW.ENSIGNENG.COM

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SALT LAKE CITY, UTAH 84117

CONTACT:
DAVID KILLPACK
PHONE: 801-716-3222

ALPINE HOLLOW SUBDIVISION

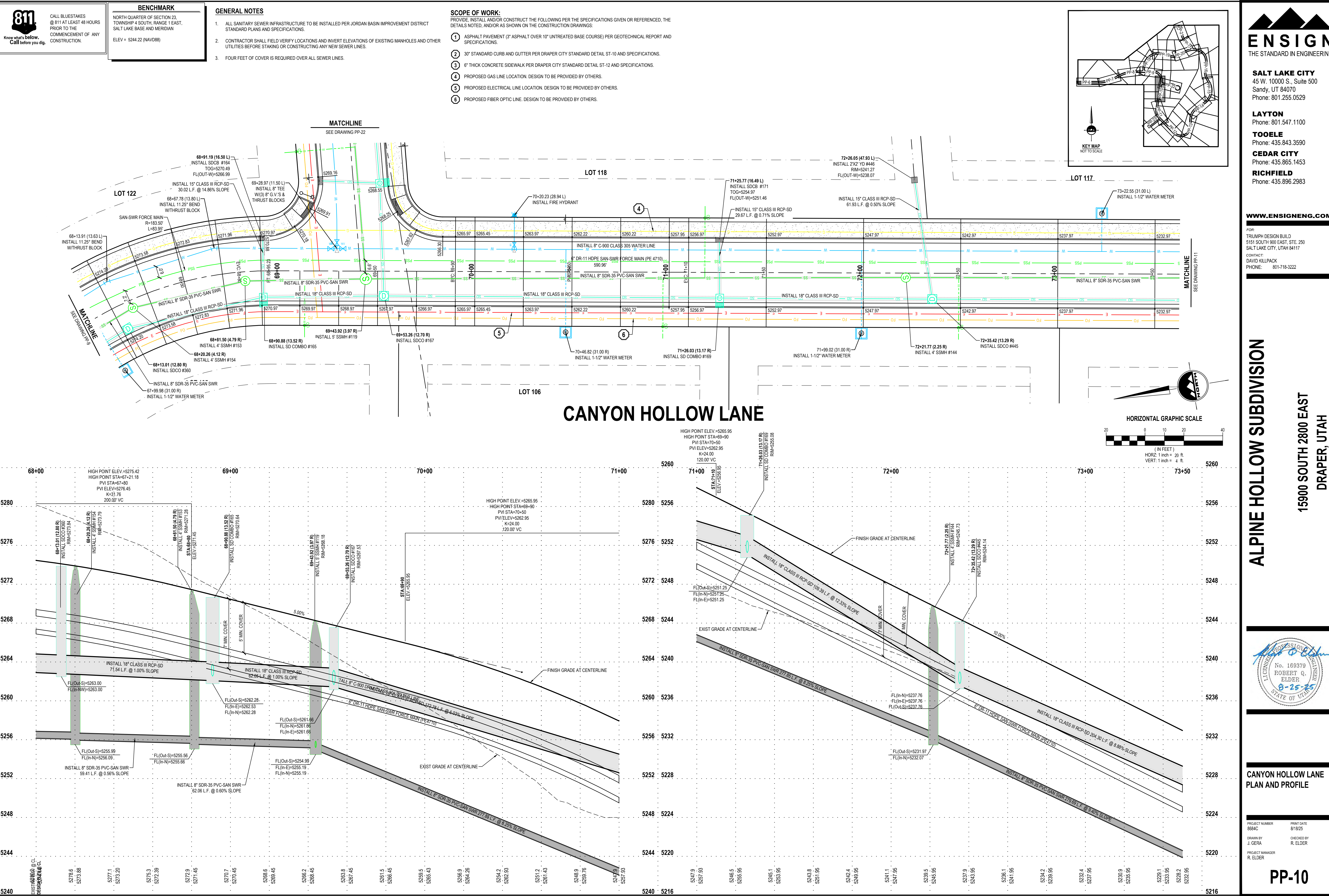
15900 SOUTH 2800 EAST
DRAPER, UTAH

PROFESSIONAL ENGINEER
No. 169379
ROBERT Q. ELDER
3-25-25
STATE OF UTAH

CANYON HOLLOW LANE
PLAN AND PROFILE

PROJECT NUMBER: 8884C
PRINT DATE: 8/18/25
DRAWN BY: J. GERA
CHECKED BY: R. ELDER
PROJECT MANAGER: R. ELDER

PP-9



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BENCHMARK

NORTH QUARTER OF SECTION 23,
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SALT LAKE BASE AND MERIDIAN

ELEV = 5244.22 (NAV88)

ENBRIDGE NOTES:

ENBRIDGE GAS IDENTIFICATION MARKERS TO BE PROTECTED IN PLACE AT ALL
TIMES DURING AND AFTER CONSTRUCTION.

CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS IN ACCORDANCE WITH
ENBRIDGE STANDARDS TO PROTECT THE HIGH PRESSURE GAS MAIN AND
ABANDONED GAS MAIN IN PLACE. CONTRACTOR SHALL NOTIFY ENBRIDGE WHEN
WORKING NEAR OR ADJACENT TO THE EASEMENT. NO STRUCTURES, TREES,
SHRUBS, RETAINING WALLS, OR FENCING IS PERMITTED WITHIN THE EASEMENT
EXTENTS.

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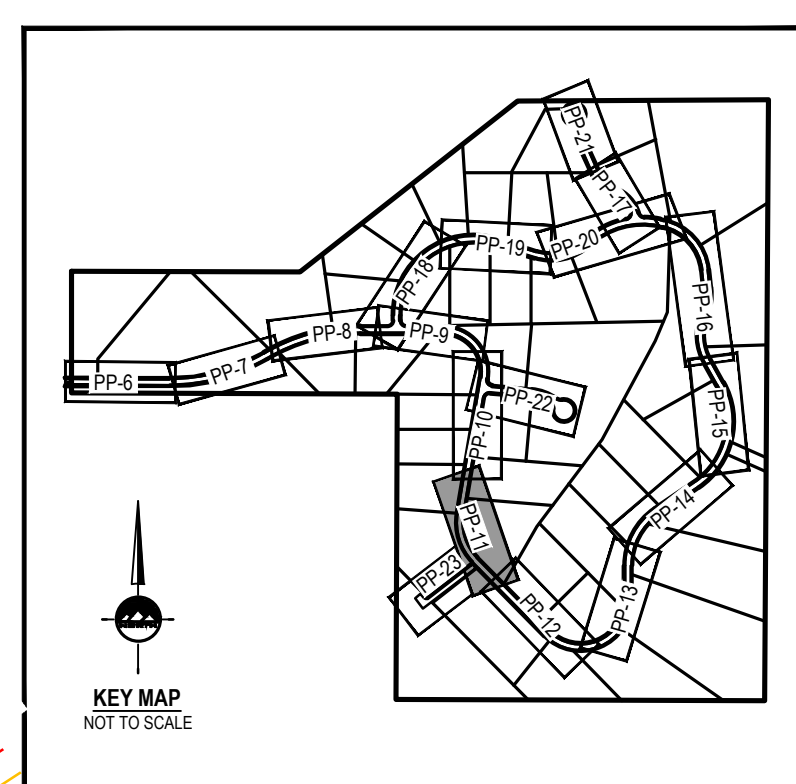
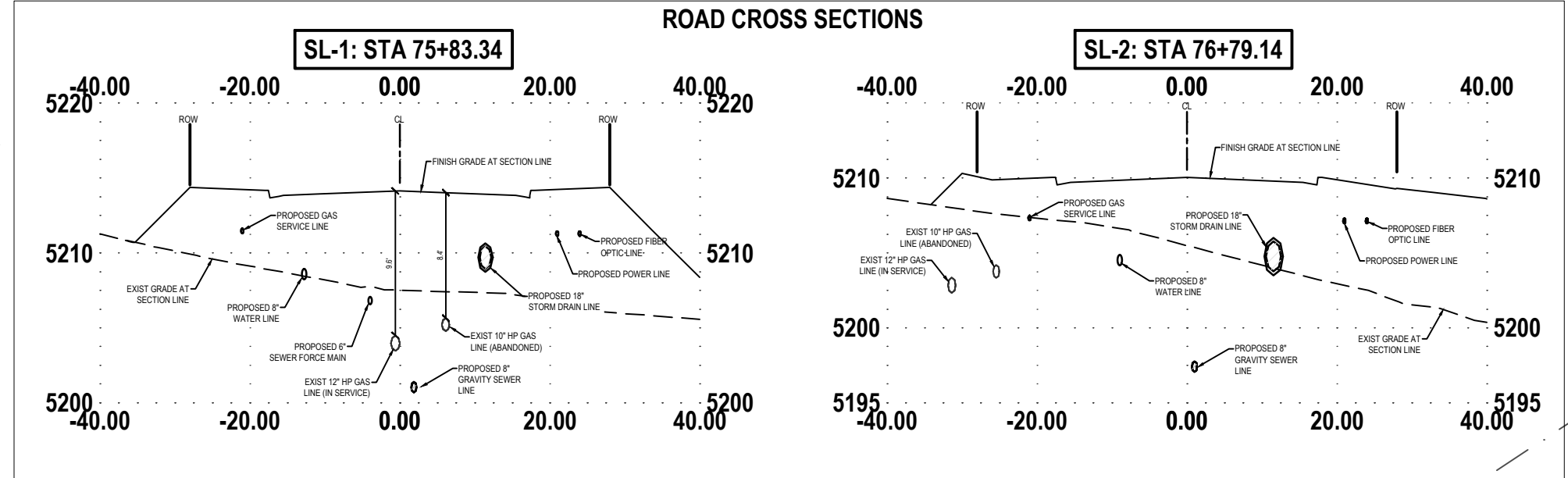
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SALT LAKE CITY, UTAH 84117

CONTACT:
DAVID KILPACK
PHONE: 801-718-3222

LOT 117

LOT 110

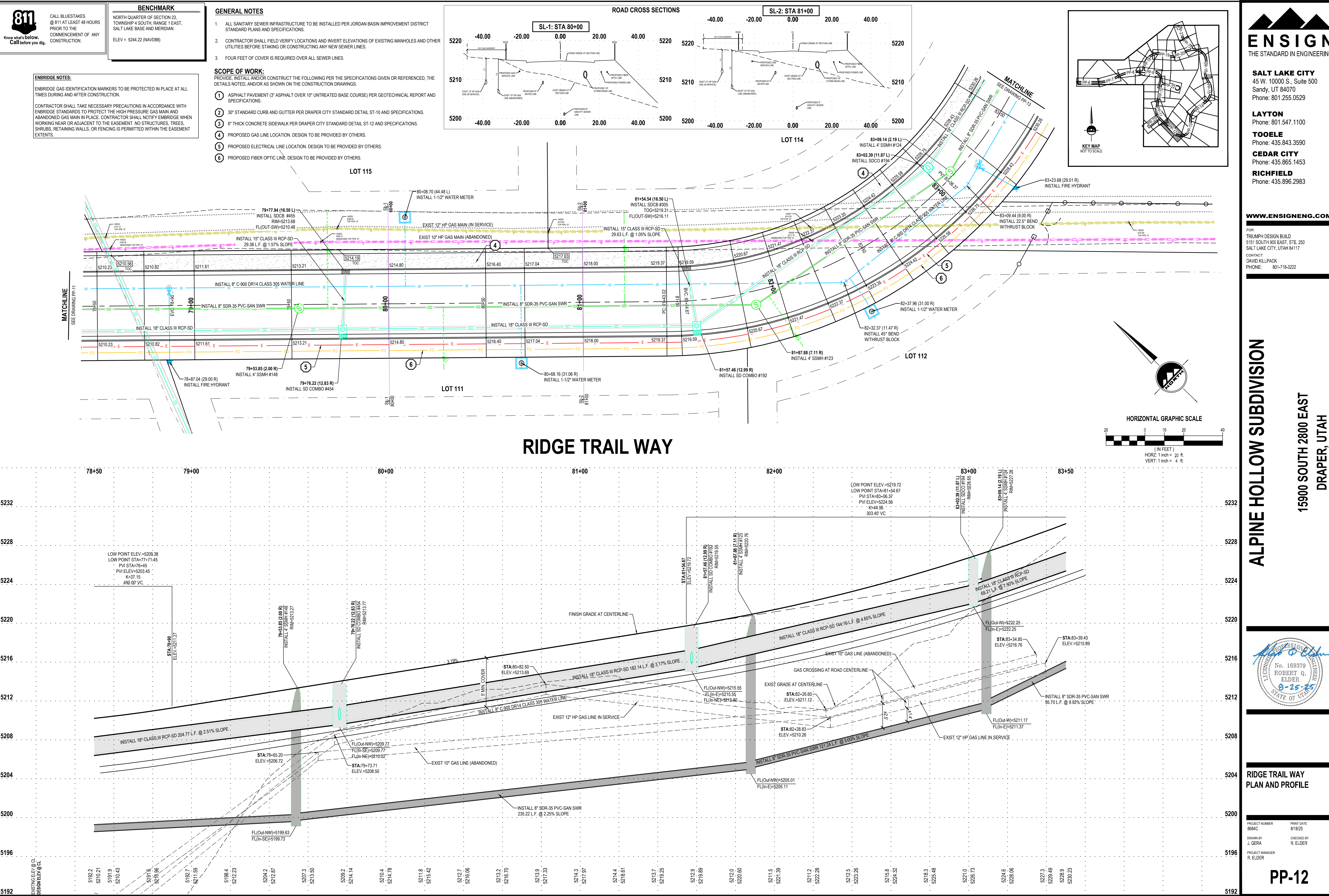
CANYON HOLLOW LANE

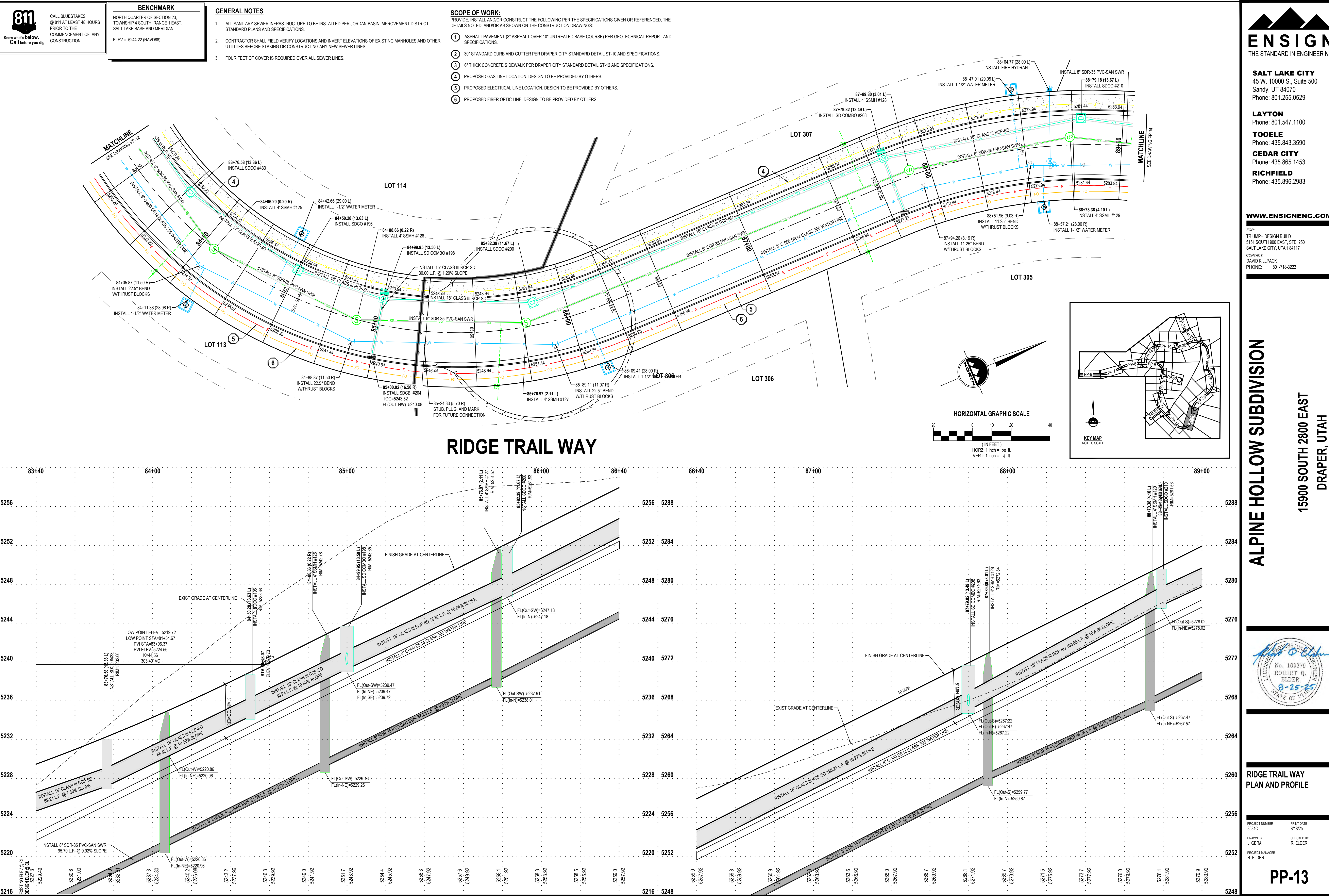
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DRAPER, UTAH

ALPINE HOLLOW SUBDIVISION

PLAN AND PROFILE

PP-11





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CONTACT:
DAVID KILLPACK
PHONE: 801-716-3222

ALPINE HOLLOW SUBDIVISION

15900 SOUTH 2800 EAST

DRAPER, UTAH

RIDGE TRAIL WAY
PLAN AND PROFILE

PROJECT NUMBER: 8884C
PRINT DATE: 8/18/25
DRAWN BY: J. GERA
CHECKED BY: R. ELDER
PROJECT MANAGER: R. ELDER

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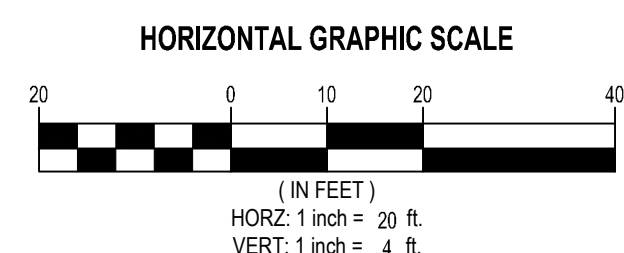
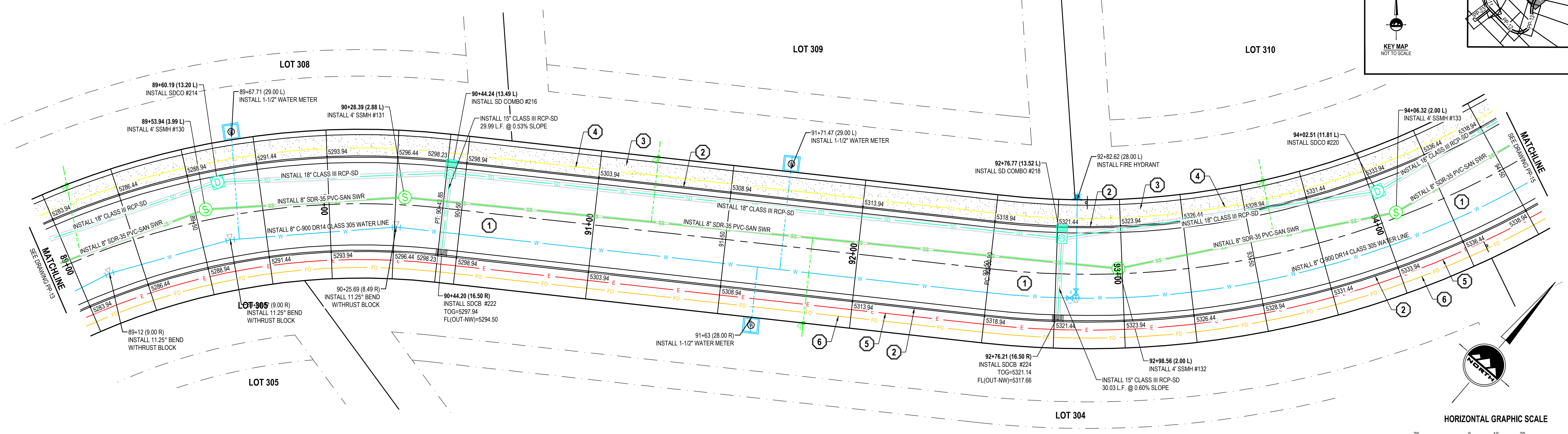
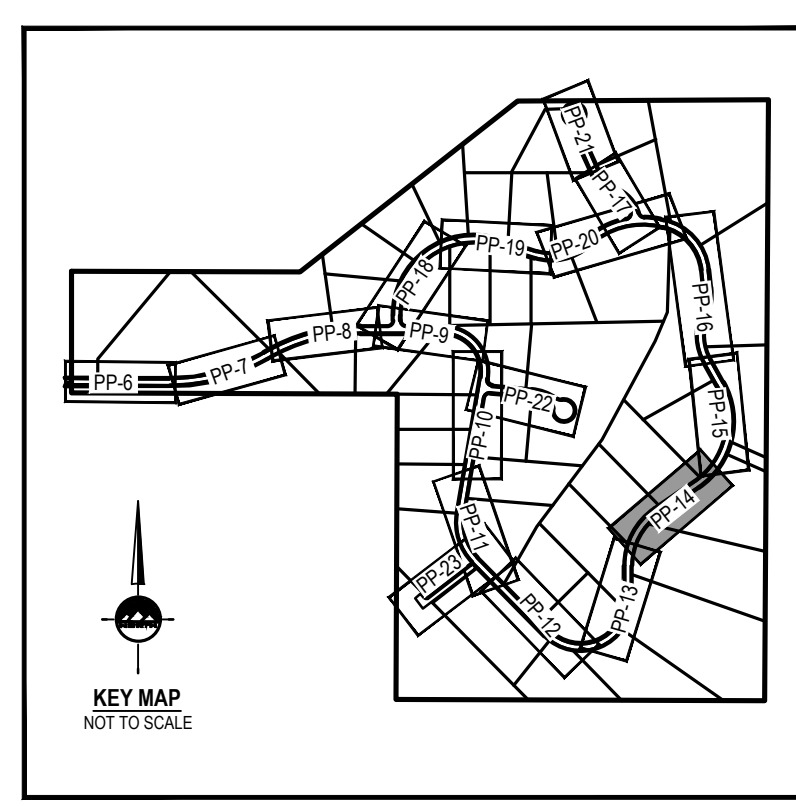
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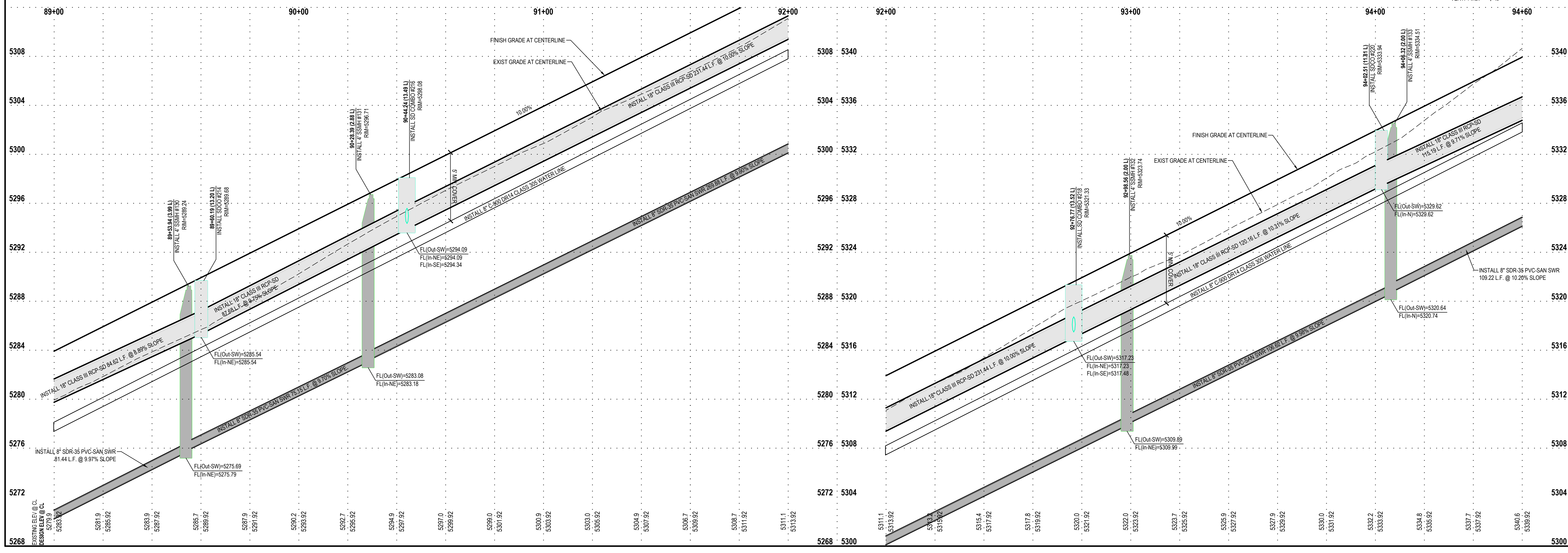
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RIDGE TRAIL WAY



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CONTACT:
DAVID KILPACK
PHONE: 801-716-3222

ALPINE HOLLOW SUBDIVISION

15900 SOUTH 2800 EAST
DRAPER, UTAH

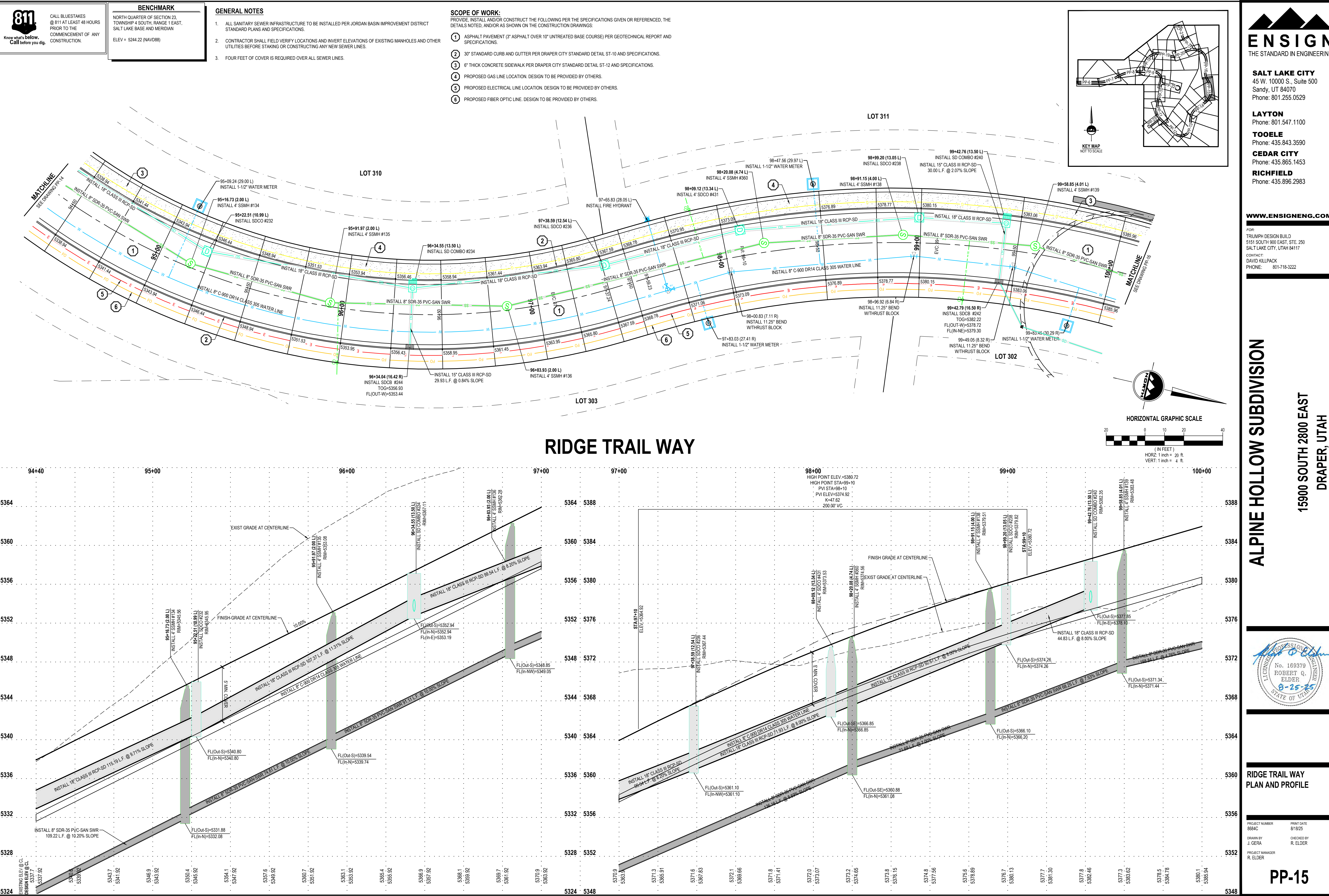
LICENSURE PROFESSIONAL ENGINEER

No. 169379
ROBERT Q. ELDER
3-25-25
STATE OF UTAH

RIDGE TRAIL WAY
PLAN AND PROFILE

PROJECT NUMBER
8884C
PRINT DATE
8/18/25
DRAWN BY
J. GERA
CHECKED BY
R. ELDER
PROJECT MANAGER
R. ELDER

PP-14





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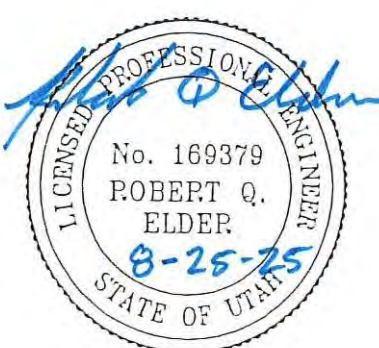
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SALT LAKE CITY, UTAH 84117

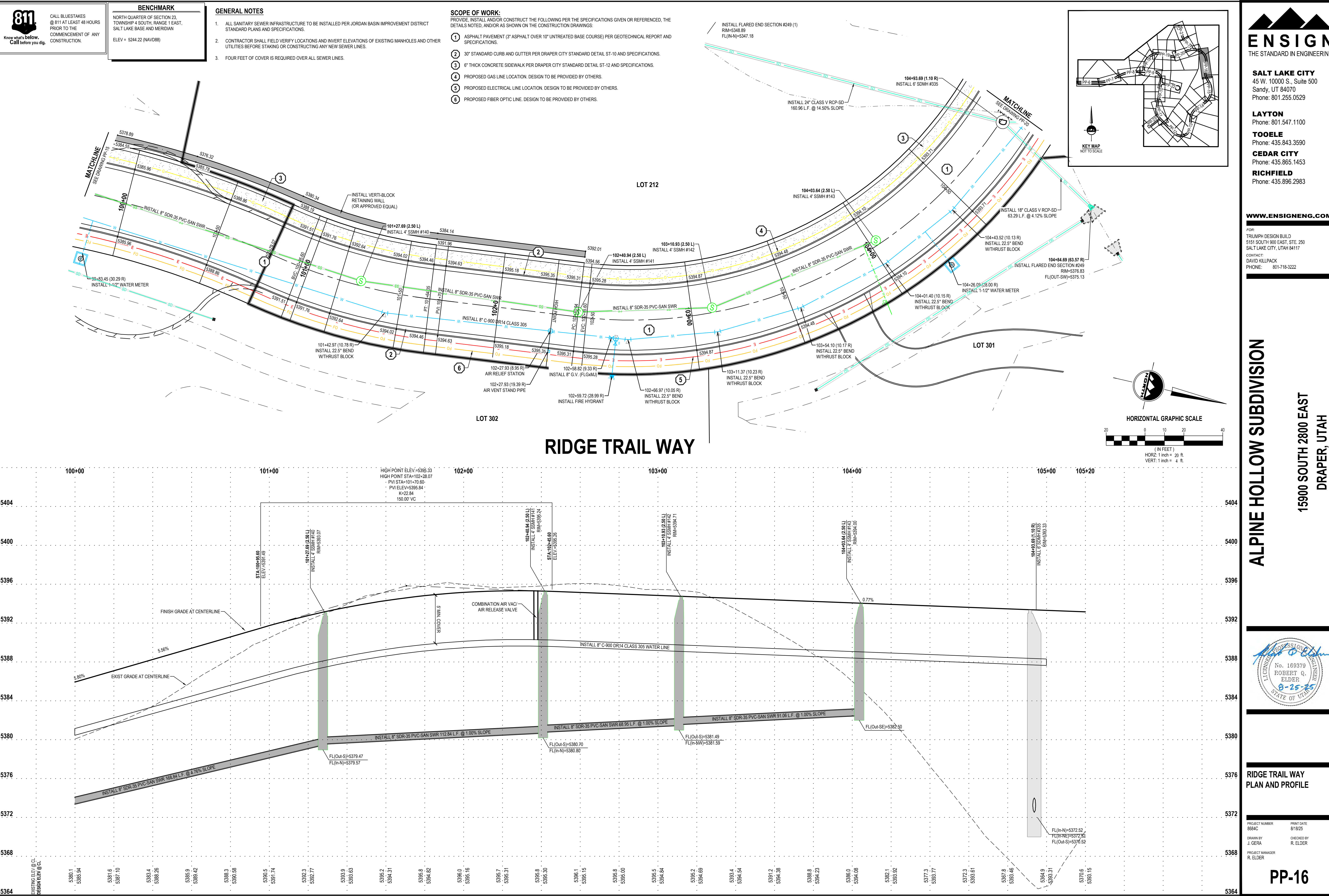
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PHONE: 801-716-3222

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DRAPER, UTAH



RIDGE TRAIL WAY
PLAN AND PROFILE

PP-15



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BENCHMARK

NORTH QUARTER OF SECTION 23,
TOWNSHIP 4 SOUTH, RANGE 1 EAST,
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ELEV = 5244.22 (NAV88)

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5

PROPOSED ELECTRICAL LINE LOCATION. DESIGN TO BE PROVIDED BY OTHERS.

6

PROPOSED FIBER OPTIC LINE. DESIGN TO BE PROVIDED BY OTHERS.

INSTALL FLARED END SECTION #249 (1)
RIM=5348.89
FL(IN-N)=5347.18

INSTALL 24" CLASS V RCP-SD
160.96 L.F. @ 14.50% SLOPE

104+93.69 (1.10 R)
INSTALL 6" SSMH #335

MATCHLINE
SEE DRAWING PP-30

INSTALL 18" CLASS V RCP-SD
63.29 L.F. @ 4.12% SLOPE

104+43.52 (10.13 R)
INSTALL 22.5" BEND
WITHRUST BLOCK

104+94.69 (63.57 R)
INSTALL FLARED END SECTION #249
RIM=5376.83
FL(OUT-SW)=5375.13

104-26.09 (28.00 R)
INSTALL 1-1/2" WATER METER

104-31.40 (10.15 R)
INSTALL 22.5" BEND
WITHRUST BLOCK

103+54.10 (10.17 R)
INSTALL 22.5" BEND
WITHRUST BLOCK

103+11.37 (10.23 R)
INSTALL 22.5" BEND
WITHRUST BLOCK

102-66.97 (10.06 R)
INSTALL 22.5" BEND
WITHRUST BLOCK

102-59.72 (28.99 R)
INSTALL FIRE HYDRANT

102-58.82 (9.33 R)
INSTALL 8" G.V. (FLGAM)

102-27.93 (8.95 R)
AIR RELIEF STATION

102-27.93 (19.39 R)
AIR VENT STAND PIPE

102+40.94 (2.50 L)
INSTALL 4" SSMH #141

103+10.93 (2.50 L)
INSTALL 4" SSMH #142

104+03.64 (2.50 L)
INSTALL 4" SSMH #143

INSTALL 8" SDR-35 PVC-SAN SWR

INSTALL 8" C-900 DR14 CLASS 305

INSTALL VERTI-BLOCK
RETAINING WALL
(OR APPROVED EQUAL)

101+27.69 (2.50 L)
INSTALL 4" SSMH #140

101+42.97 (10.78 R)
INSTALL 22.5" BEND
WITHRUST BLOCK

101-43.45 (30.29 R)
INSTALL 1-1/2" WATER METER

LOT 212

LOT 302

LOT 301

EN SIGN

THE STANDARD IN ENGINEERING

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15900 SOUTH 2800 EAST
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RIDGE TRAIL WAY
PLAN AND PROFILE

PROJECT NUMBER
8884C

PRINT DATE
8/18/25

DRAWN BY
J. GERA

CHECKED BY
R. ELDER

PROJECT MANAGER
R. ELDER

PP-16

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BENCHMARK

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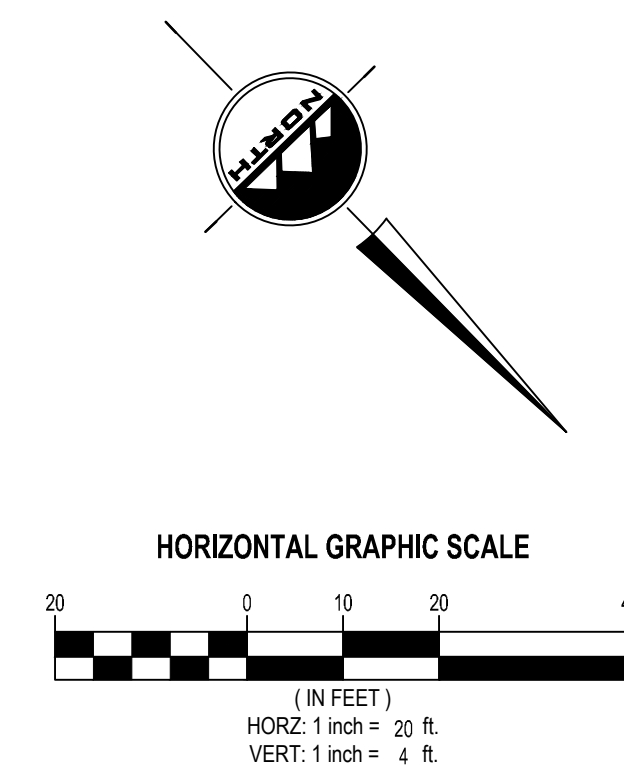
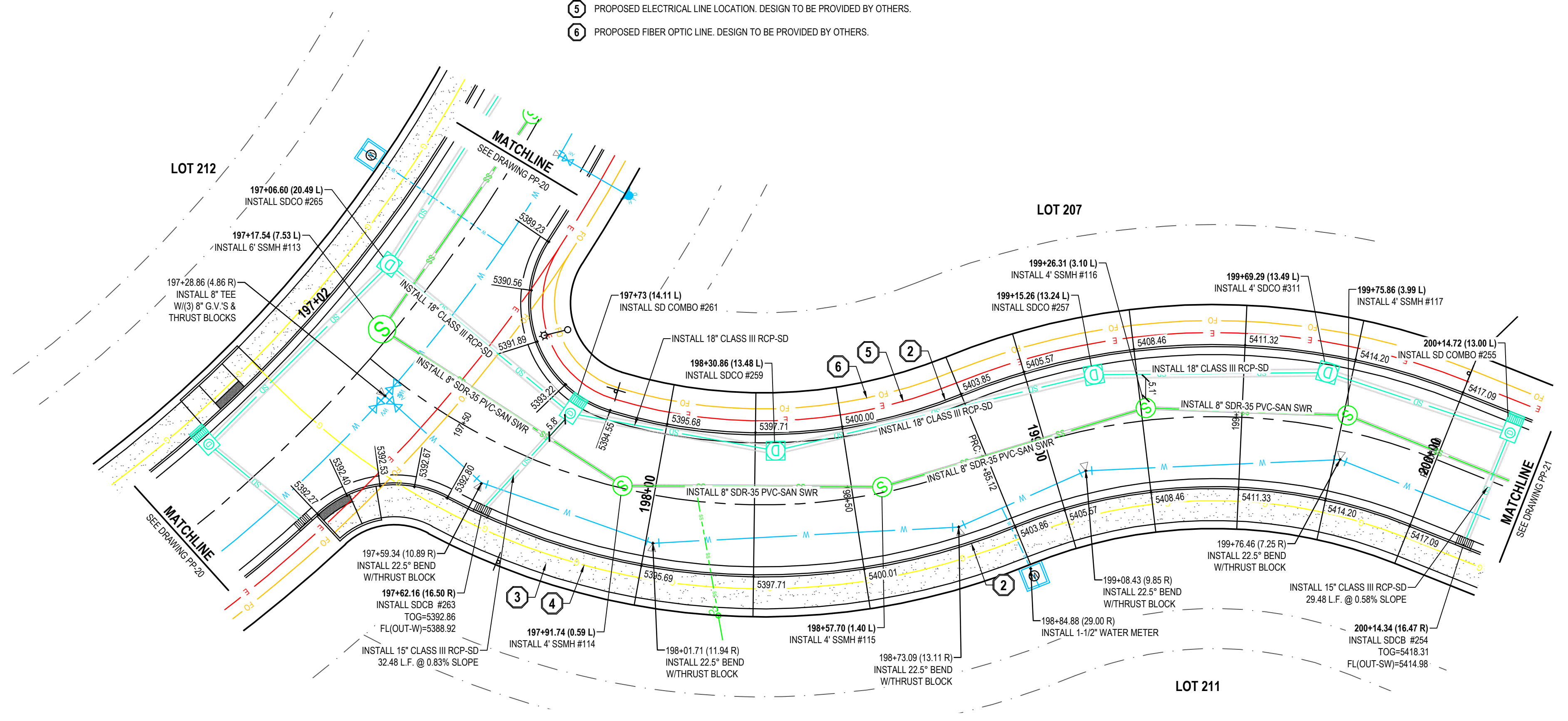
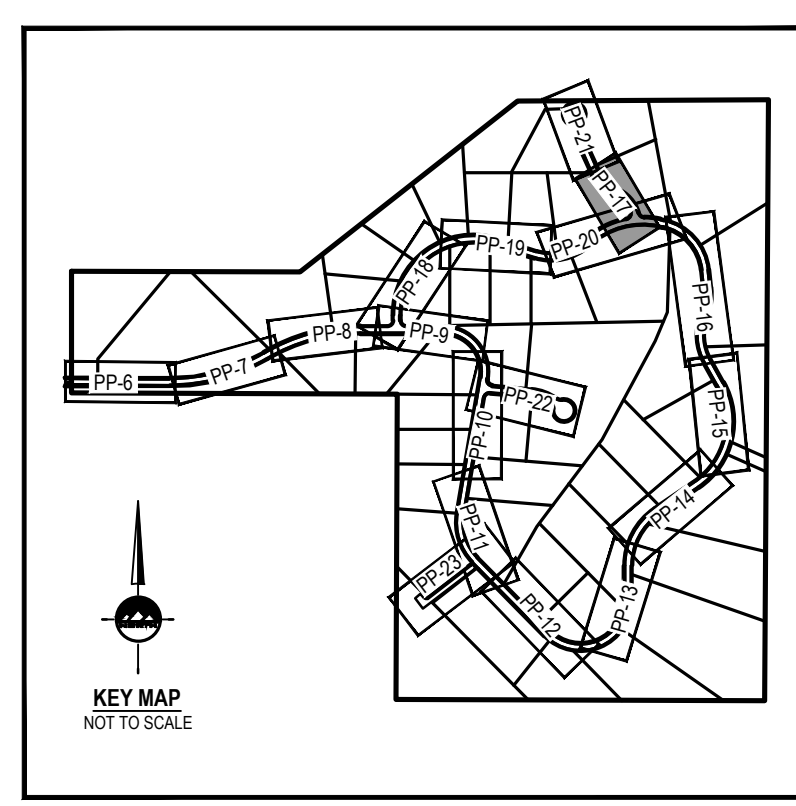
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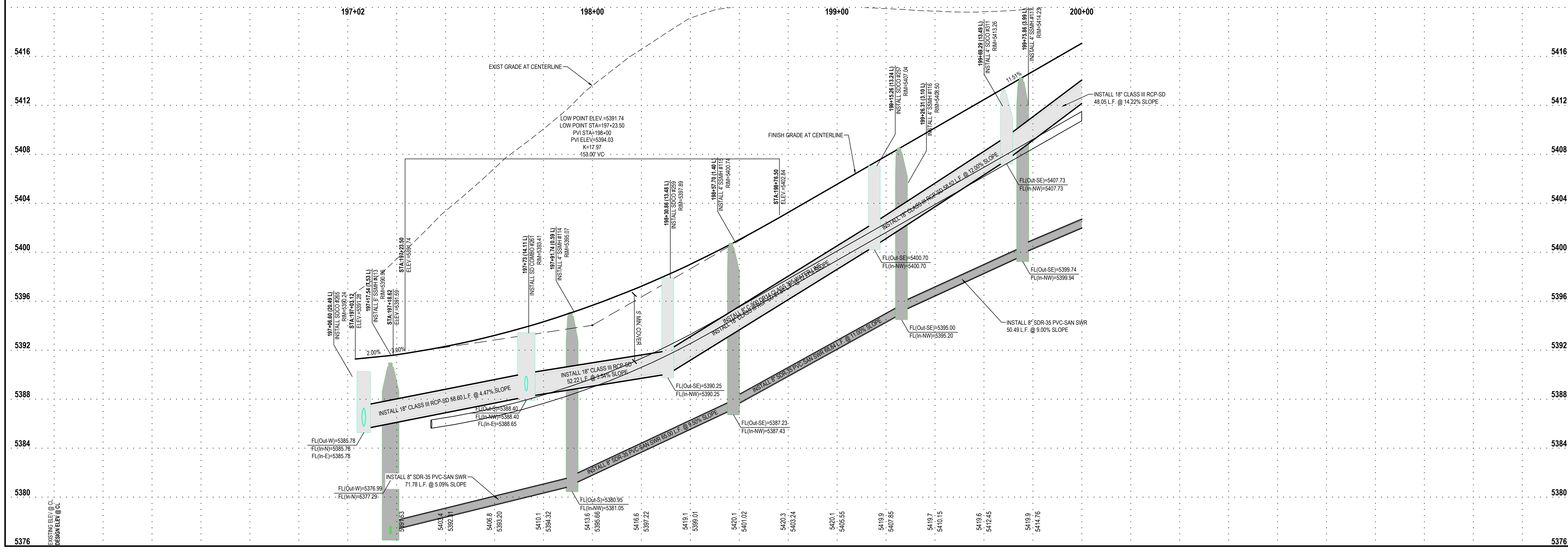
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CARIBOU CREST CIRCLE



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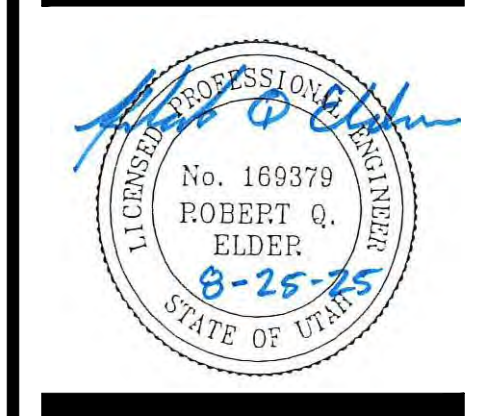
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CONTACT:
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ALPINE HOLLOW SUBDIVISION

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CARIBOU CREST CIRCLE
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PROJECT NUMBER
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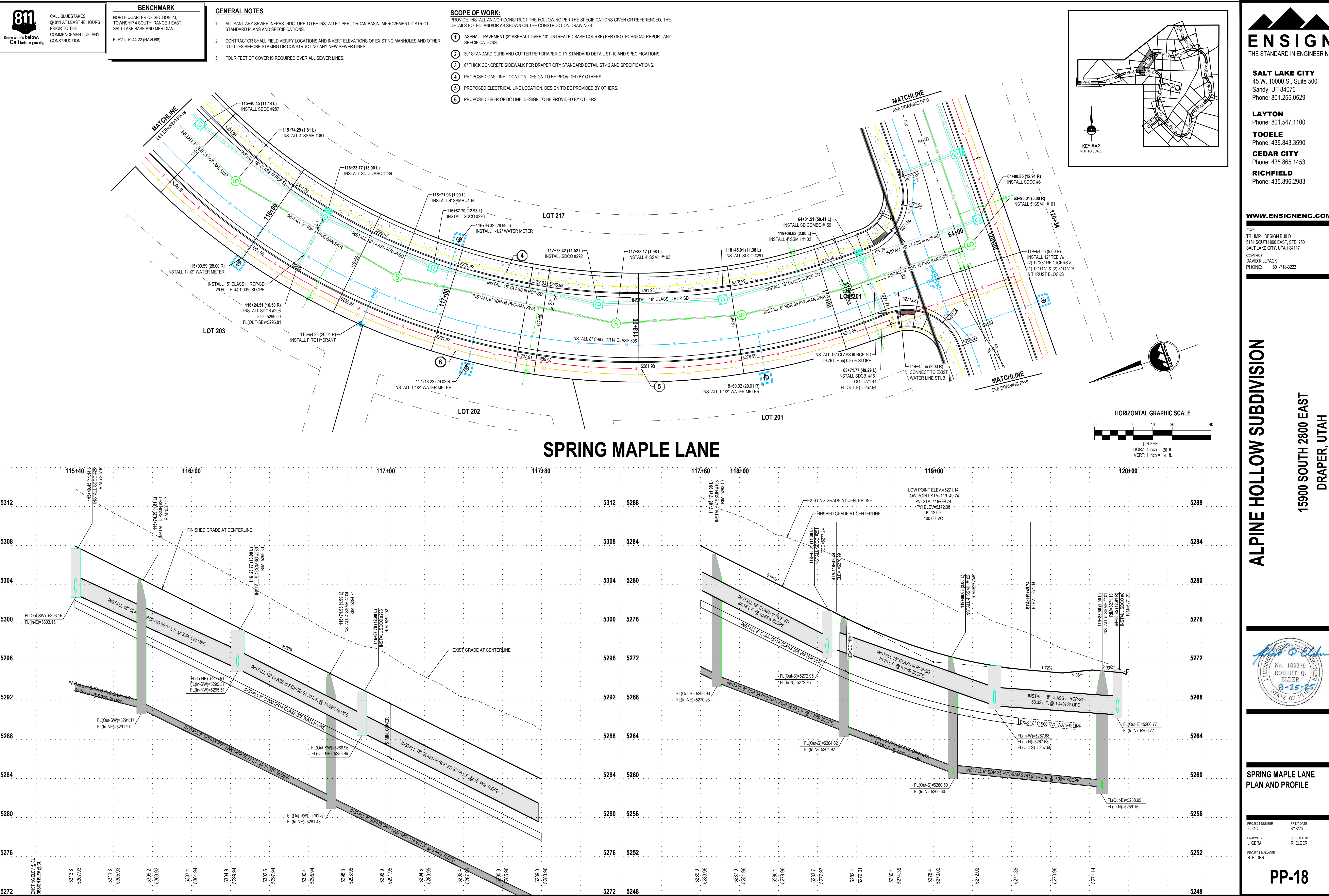
PRINT DATE
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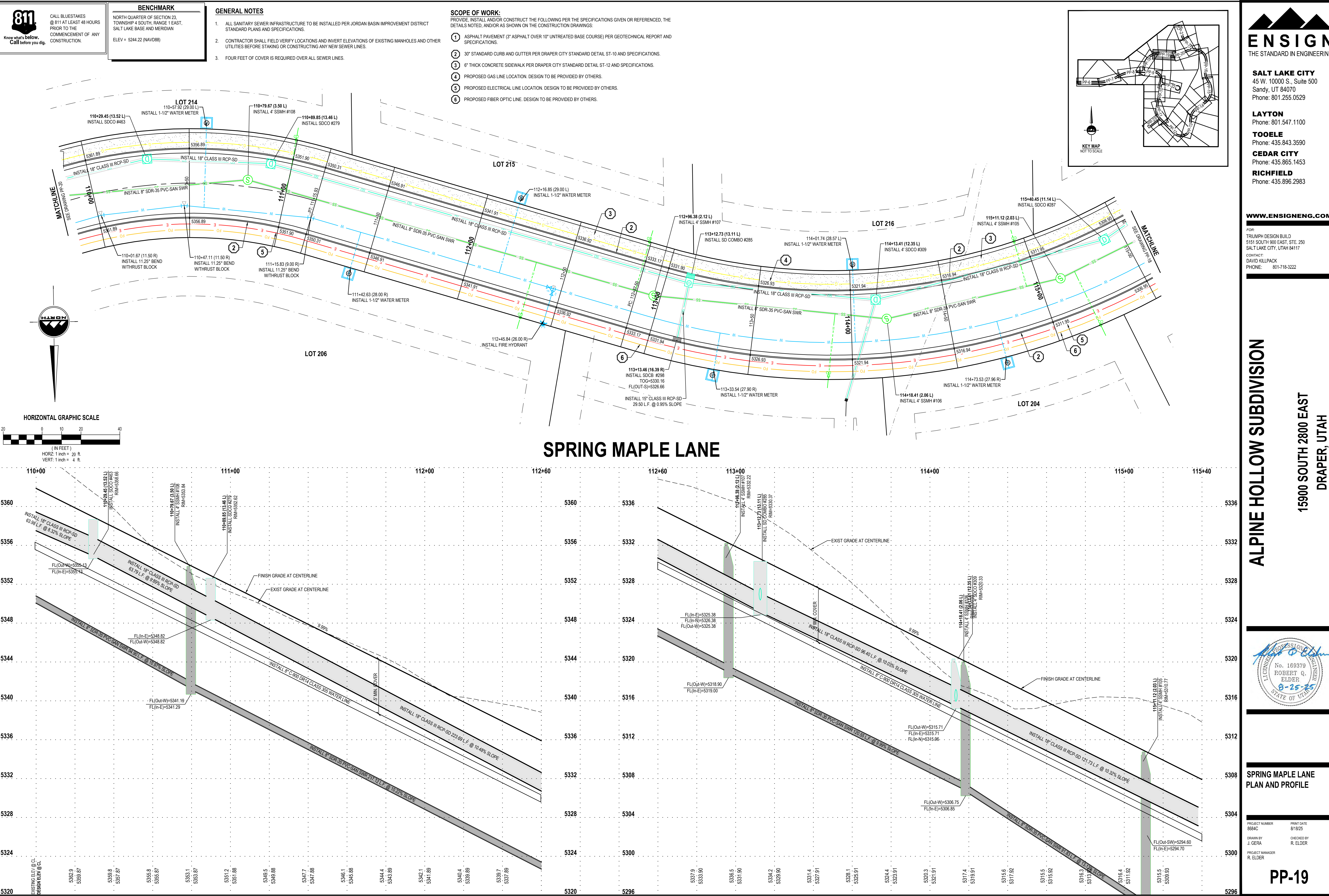
DRAWN BY
J. GERA

CHECKED BY
R. ELDER

PROJECT MANAGER
R. ELDER

PP-17



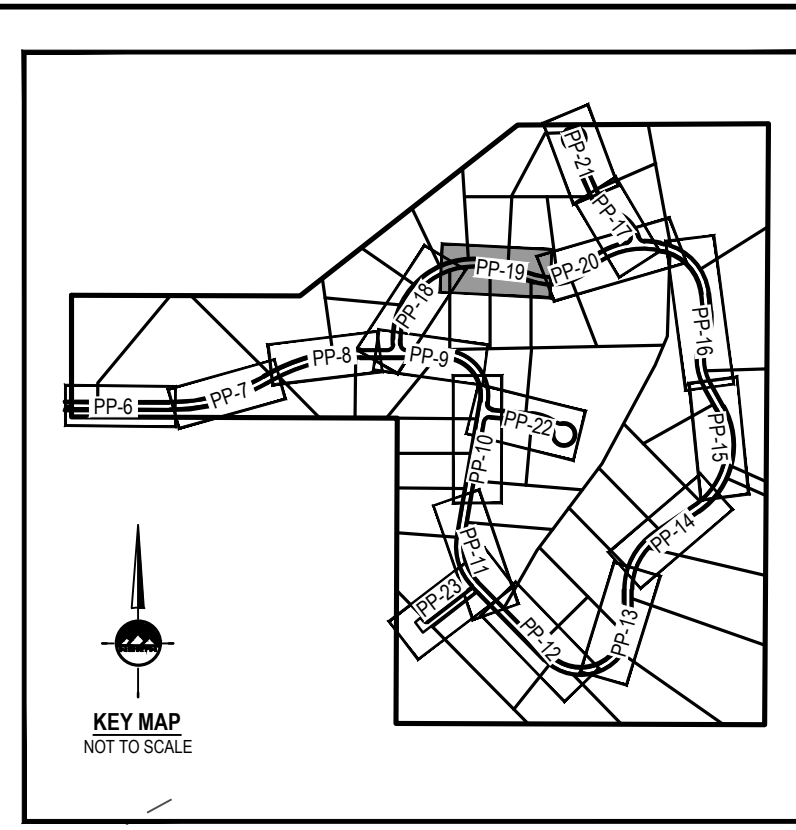


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② 30" STANDARD CURB AND GUTTER PER DRAPER CITY STANDARD DETAIL ST-10 AND SPECIFICATIONS.
③ 6" THICK CONCRETE SIDEWALK PER DRAPER CITY STANDARD DETAIL ST-12 AND SPECIFICATIONS.
④ PROPOSED GAS LINE LOCATION. DESIGN TO BE PROVIDED BY OTHERS.
⑤ PROPOSED ELECTRICAL LINE LOCATION. DESIGN TO BE PROVIDED BY OTHERS.
⑥ PROPOSED FIBER OPTIC LINE. DESIGN TO BE PROVIDED BY OTHERS.



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LAYTON
Phone: 801.547.1100

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Phone: 435.843.3590

CEDAR CITY
Phone: 435.865.1453

RICHFIELD
Phone: 435.896.2983

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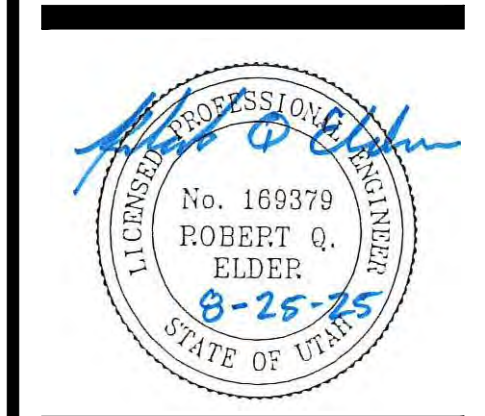
FOR:
TRIUMPH DESIGN BUILD
5151 SOUTH 900 EAST, STE. 250
SALT LAKE CITY, UTAH 84117

CONTACT:
DAVID KILLPACK
PHONE: 801-716-3222

ALPINE HOLLOW SUBDIVISION

15900 SOUTH 2800 EAST

DRAPER, UTAH



SPRING MAPLE LANE
PLAN AND PROFILE

PROJECT NUMBER
8884C

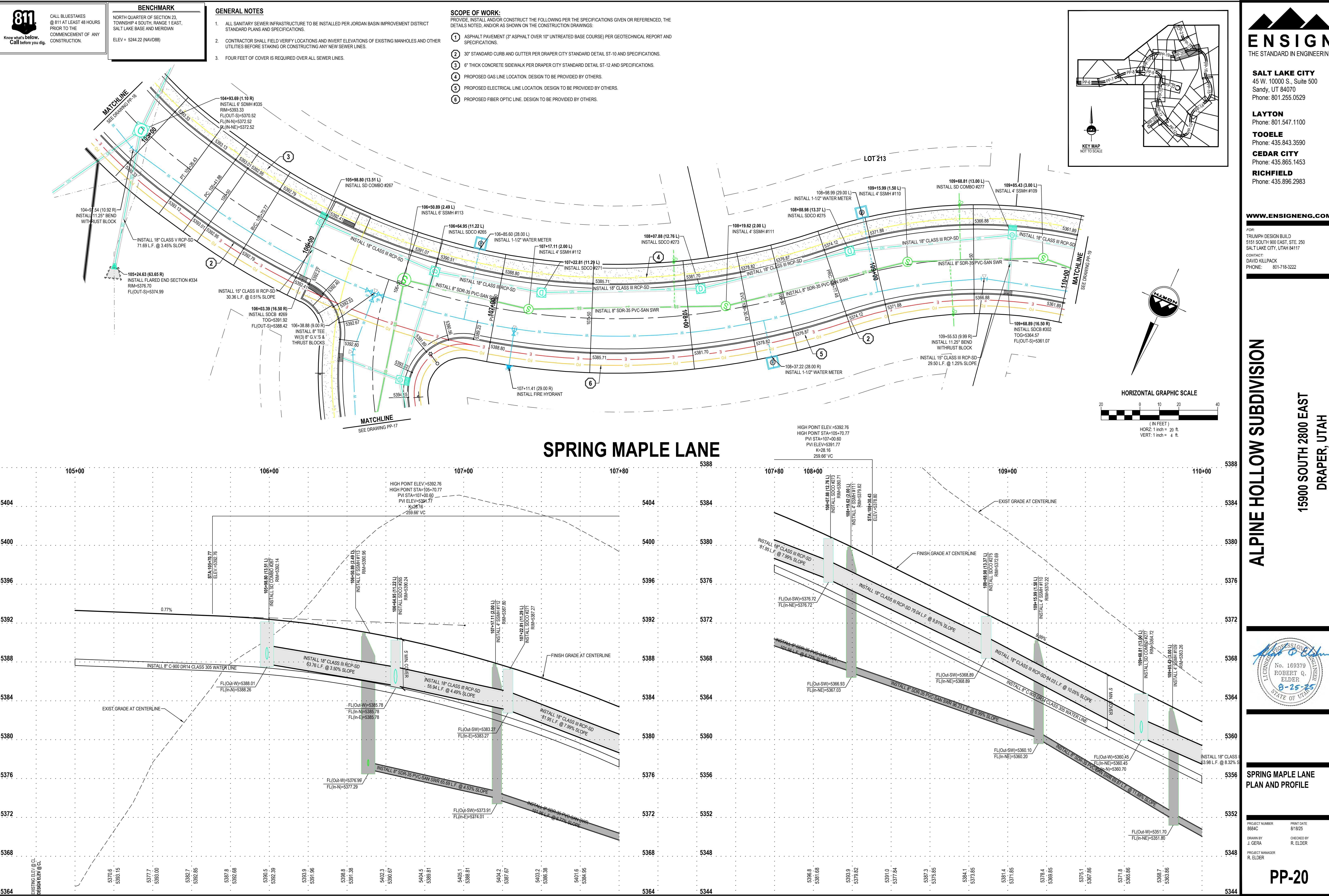
PRINT DATE
8/18/25

DRAWN BY
J. GERA

CHECKED BY
R. ELDER

PROJECT MANAGER
R. ELDER

PP-19





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RICHFIELD
Phone: 435.896.2983

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SALT LAKE CITY, UTAH 84117

CONTACT:
DAVID KILLPACK
PHONE: 801-718-3222

**SPRING MAPLE LANE
PLAN AND PROFILE**

PROJECT NUMBER
8884C

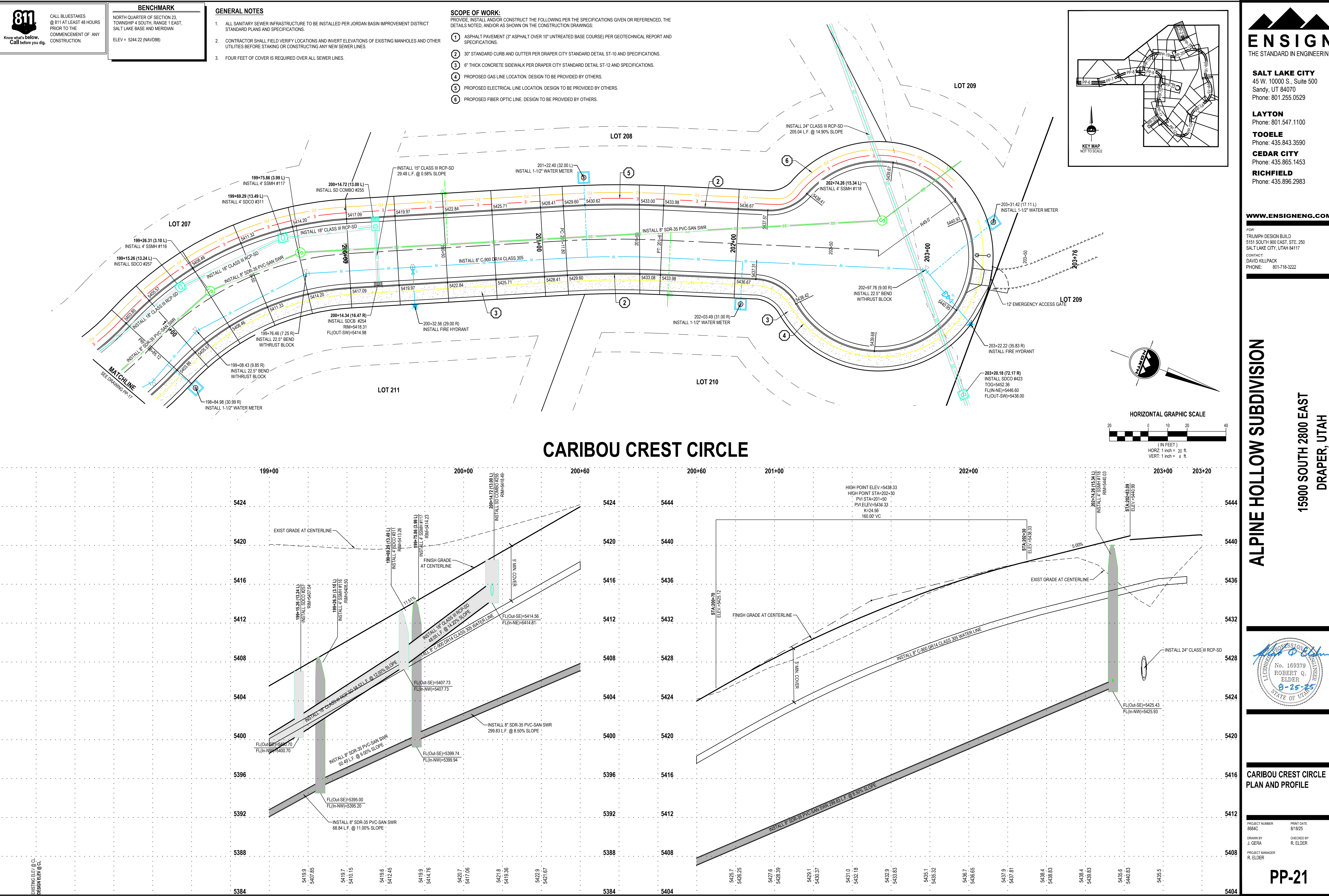
PRINT DATE
8/18/25

DRAWN BY
J. GERA

CHECKED BY
R. ELDER

PROJECT MANAGER
R. ELDER

PP-20



811

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BENCHMARK

NORTH QUARTER OF SECTION 23,
TOWNSHIP 4 SOUTH, RANGE 1 EAST,
SALT LAKE BASE AND MERIDIAN

ELEV = 5244.22 (NAVD88)

- GENERAL NOTES
1.

ALL SANITARY SEWER INFRASTRUCTURE TO BE INSTALLED PER JORDAN BASIN IMPROVEMENT DISTRICT STANDARD PLANS AND SPECIFICATIONS.
2.

CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTING ANY NEW SEWER LINES.
3.

FOUR FEET OF COVER IS REQUIRED OVER ALL SEWER LINES.

- SCOPE OF WORK:
- PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:
- 1

ASPHALT PAVEMENT (3" ASPHALT OVER 10" UNTREATED BASE COURSE) PER GEOTECHNICAL REPORT AND SPECIFICATIONS.
- 2

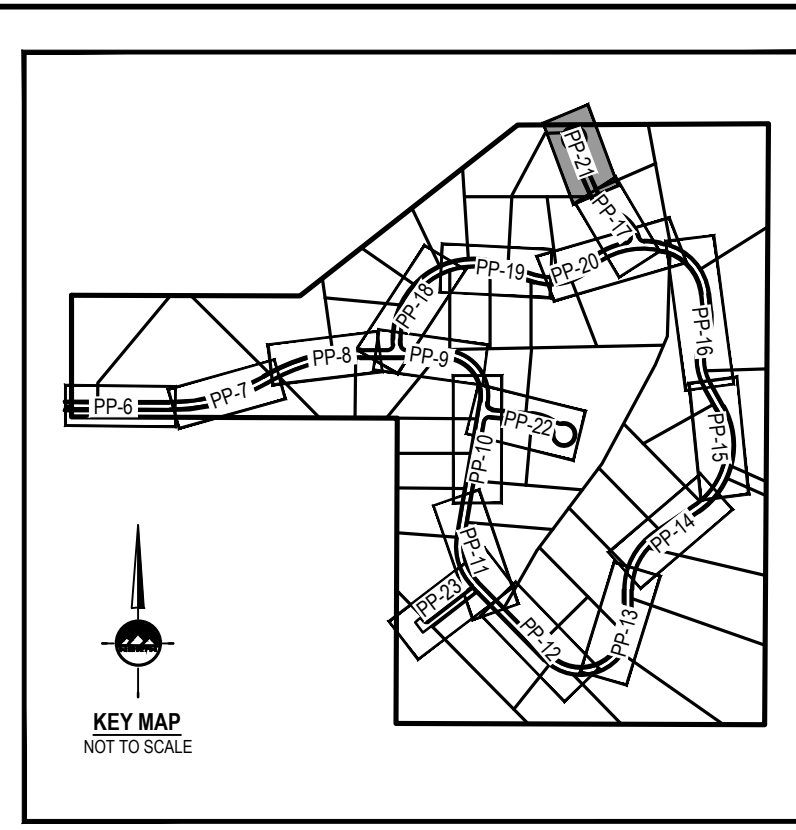
30" STANDARD CURB AND GUTTER PER DRAPER CITY STANDARD DETAIL ST-10 AND SPECIFICATIONS.
- 3

6" THICK CONCRETE SIDEWALK PER DRAPER CITY STANDARD DETAIL ST-12 AND SPECIFICATIONS.
- 4

PROPOSED GAS LINE LOCATION. DESIGN TO BE PROVIDED BY OTHERS.
- 5

PROPOSED ELECTRICAL LINE LOCATION. DESIGN TO BE PROVIDED BY OTHERS.
- 6

PROPOSED FIBER OPTIC LINE. DESIGN TO BE PROVIDED BY OTHERS.



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TOOELE

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CEDAR CITY

Phone: 435.865.1453

RICHFIELD

Phone: 435.896.2983

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FOR:

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5151 SOUTH 900 EAST, STE. 250
SALT LAKE CITY, UTAH 84117

CONTACT:

DAVID KILLPACK
PHONE: 801-718-3222

ALPINE HOLLOW SUBDIVISION

15900 SOUTH 2800 EAST
DRAPER, UTAH

PROFESSIONAL

ROBERT Q. ELDER

8-25-25

STATE OF UTAH

CARIBOU CREST CIRCLE
PLAN AND PROFILE

PROJECT NUMBER
8884C

PRINT DATE
8/18/25

DRAWN BY
J. GERA

CHECKED BY
R. ELDER

PROJECT MANAGER
R. ELDER

PP-21



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BENCHMARK

NORTH QUARTER OF SECTION 23,
TOWNSHIP 4 SOUTH, RANGE 1 EAST,
SALT LAKE BASE AND MERIDIAN

ELEV = 5244.22 (NAVD88)

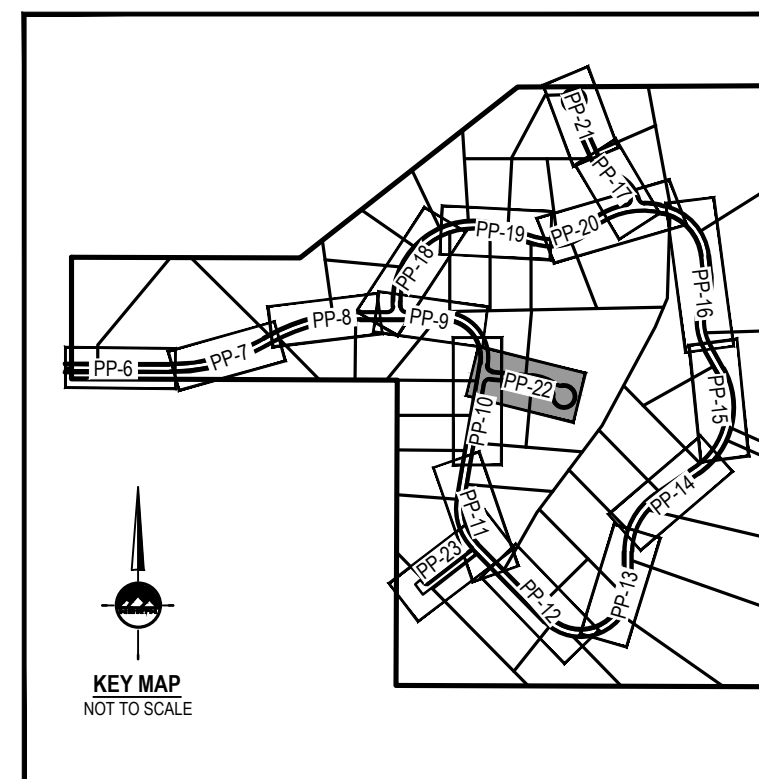
GENERAL NOTES

1. ALL SANITARY SEWER INFRASTRUCTURE TO BE INSTALLED PER JORDAN BASIN IMPROVEMENT DISTRICT STANDARD PLANS AND SPECIFICATIONS.
2. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTING ANY NEW SEWER LINES.
3. FOUR FEET OF COVER IS REQUIRED OVER ALL SEWER LINES.

SCOPE OF WORK:

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED. THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

1. ASPHALT PAVEMENT (3" ASPHALT OVER 10" UNTREATED BASE COURSE) PER GEOTECHNICAL REPORT AND SPECIFICATIONS.
2. 30" STANDARD CURB AND GUTTER PER DRAPER CITY STANDARD DETAIL ST-10 AND SPECIFICATIONS.
3. 6" THICK CONCRETE SIDEWALK PER DRAPER CITY STANDARD DETAIL ST-12 AND SPECIFICATIONS.
4. PROPOSED GAS LINE LOCATION. DESIGN TO BE PROVIDED BY OTHERS.
5. PROPOSED ELECTRICAL LINE LOCATION. DESIGN TO BE PROVIDED BY OTHERS.
6. PROPOSED FIBER OPTIC LINE. DESIGN TO BE PROVIDED BY OTHERS.



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CEDAR CITY
Phone: 435.865.1453

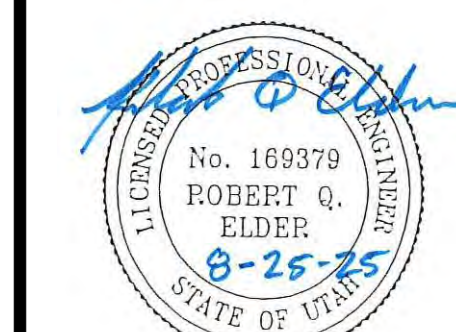
RICHFIELD
Phone: 435.896.2983

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FOR:
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SALT LAKE CITY, UTAH 84117
CONTACT:
DAVID KILLPACK
PHONE: 801-716-3222

ALPINE HOLLOW SUBDIVISION

15900 SOUTH 2800 EAST
DRAPER, UTAH



**BIGTOOTH OAK CIRCLE
PLAN AND PROFILE**

PROJECT NUMBER
8884C
DRAWN BY
J. GERA
PROJECT MANAGER
R. ELDER
PRINT DATE
8/18/25
CHECKED BY
R. ELDER

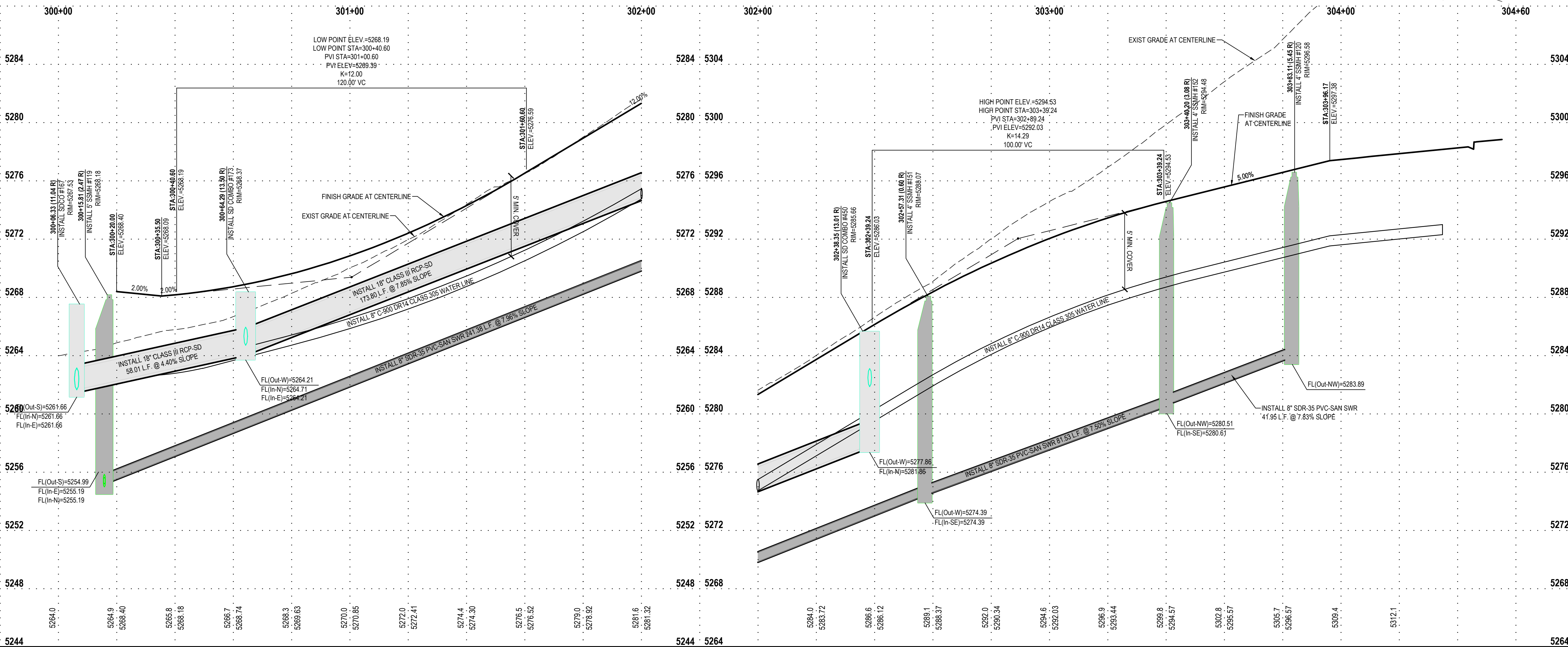
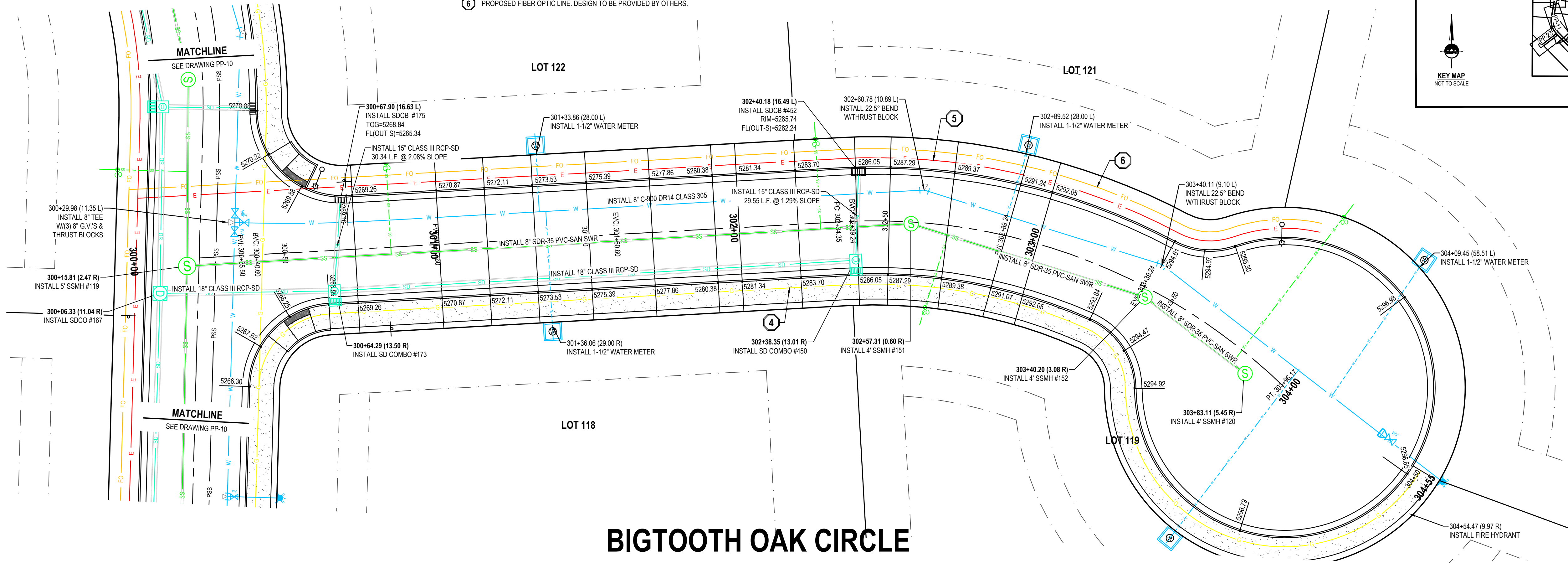
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BIGTOOTH OAK CIRCLE

HORIZONTAL GRAPHIC SCALE



(IN FEET)
HORZ: 1 inch = 20 ft.
VERT: 1 inch = 4 ft.



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BENCHMARK

NORTH QUARTER OF SECTION 23,
TOWNSHIP 4 SOUTH, RANGE 1 EAST,
SALT LAKE BASE AND MERIDIAN

ELEV = 5244.22 (NAVD88)

- GENERAL NOTES
1.

ALL SANITARY SEWER INFRASTRUCTURE TO BE INSTALLED PER JORDAN BASIN IMPROVEMENT DISTRICT
STANDARD PLANS AND SPECIFICATIONS.
2.

CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER
UTILITIES BEFORE STAKING OR CONSTRUCTING ANY NEW SEWER LINES.
3.

FOUR FEET OF COVER IS REQUIRED OVER ALL SEWER LINES.

- SCOPE OF WORK:
- PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED. THE
DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:
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ASPHALT PAVEMENT (3" ASPHALT OVER 10" UNTREATED BASE COURSE) PER GEOTECHNICAL REPORT AND
SPECIFICATIONS.
- 2

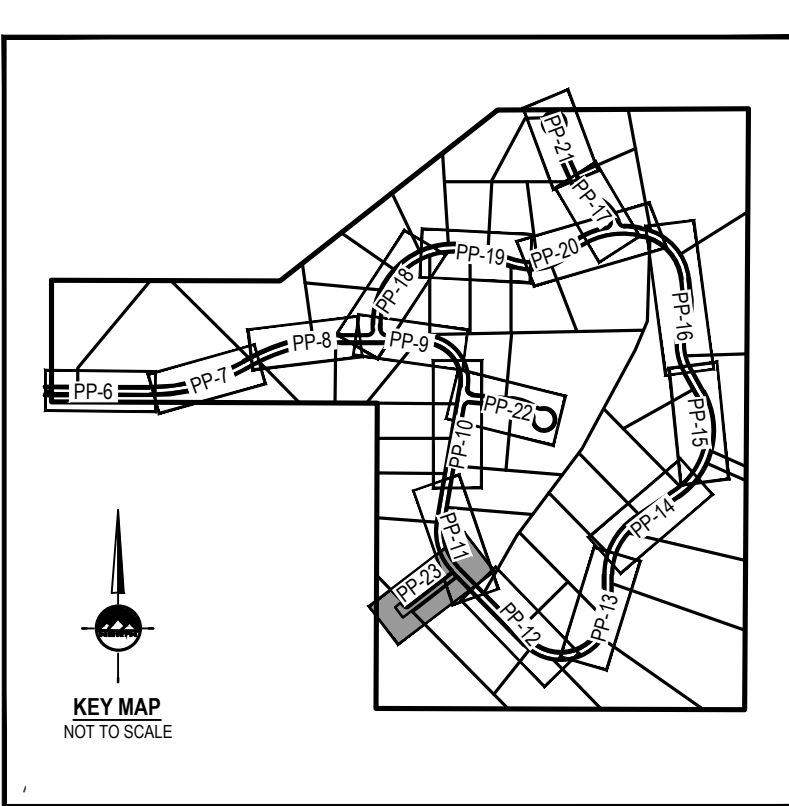
30" STANDARD CURB AND GUTTER PER DRAPER CITY STANDARD DETAIL ST-10 AND SPECIFICATIONS.
- 3

6" THICK CONCRETE SIDEWALK PER DRAPER CITY STANDARD DETAIL ST-12 AND SPECIFICATIONS.
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PROPOSED FIBER OPTIC LINE. DESIGN TO BE PROVIDED BY OTHERS.



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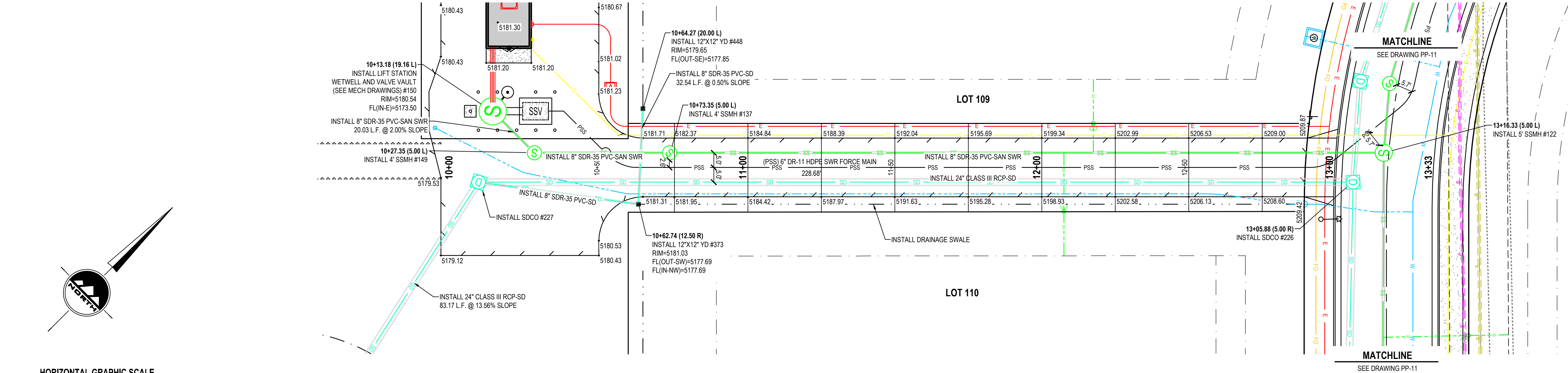
RICHFIELD

Phone: 435.896.2983

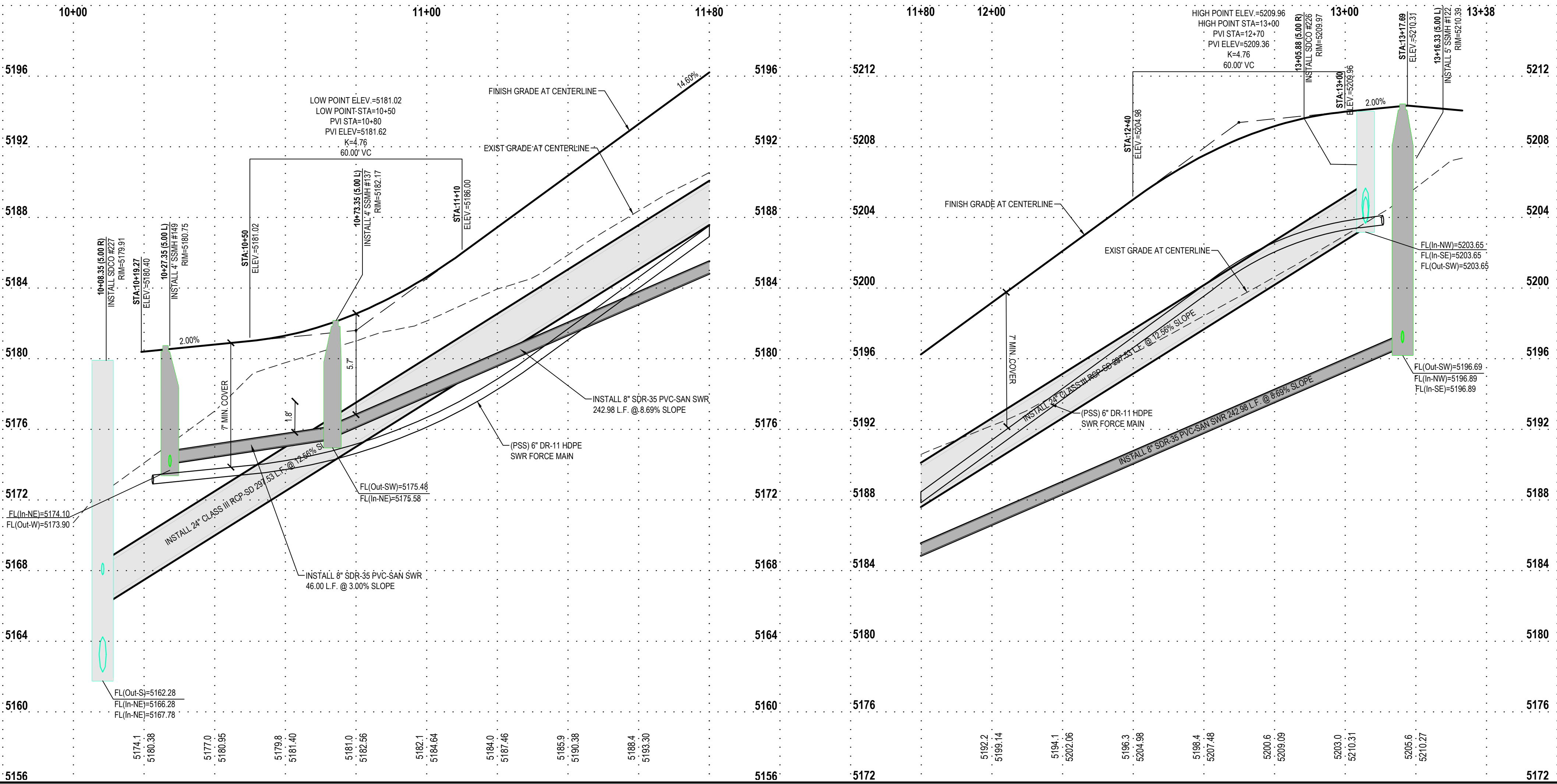
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SALT LAKE CITY, UTAH 84117

CONTACT:
DAVID KILLPACK
PHONE: 801-716-3222

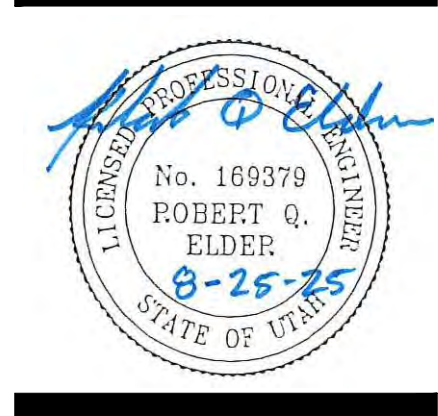


ACCESS ROAD



ALPINE HOLLOW SUBDIVISION

15900 SOUTH 2800 EAST
DRAPER, UTAH



ACCESS ROAD
PLAN AND PROFILE

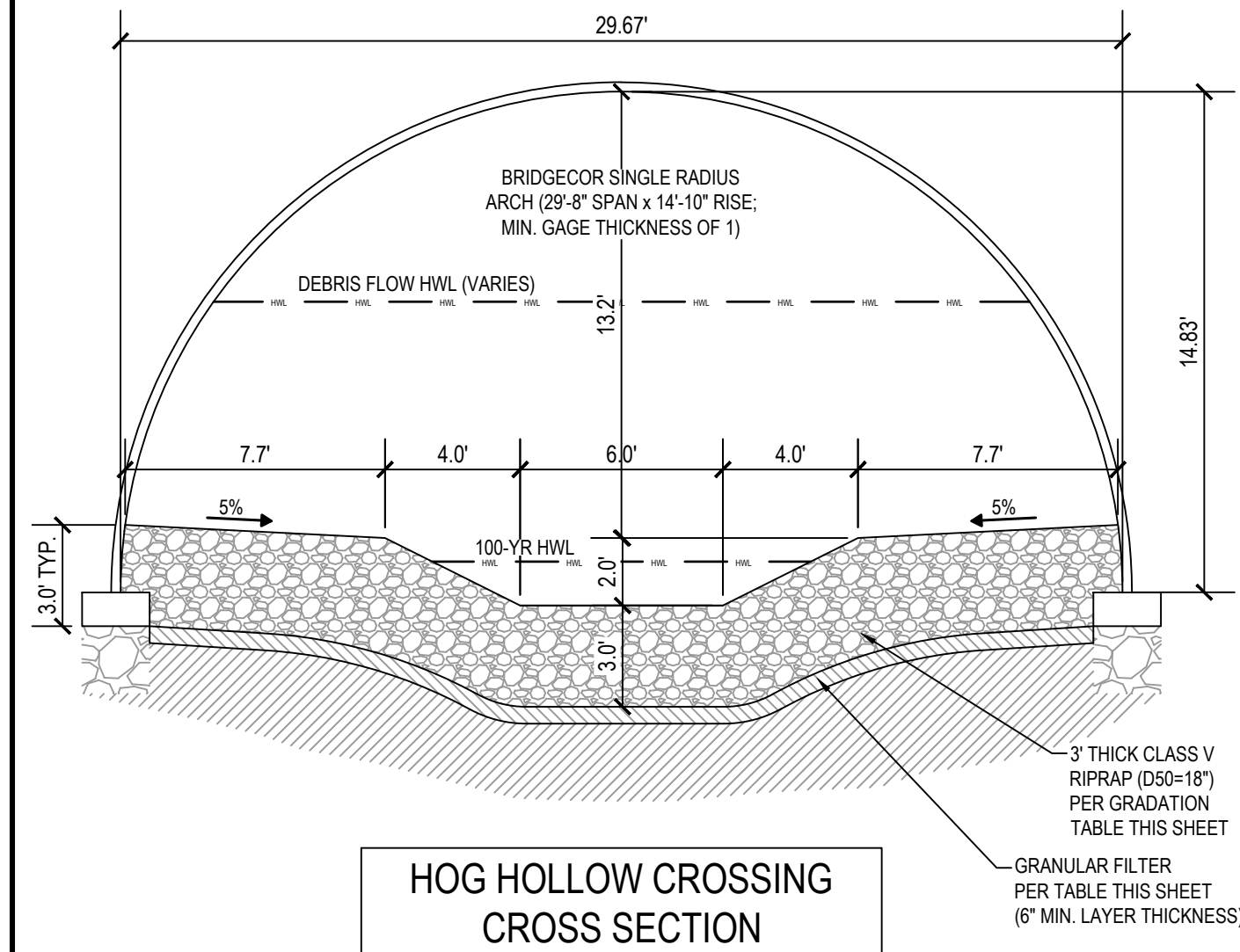
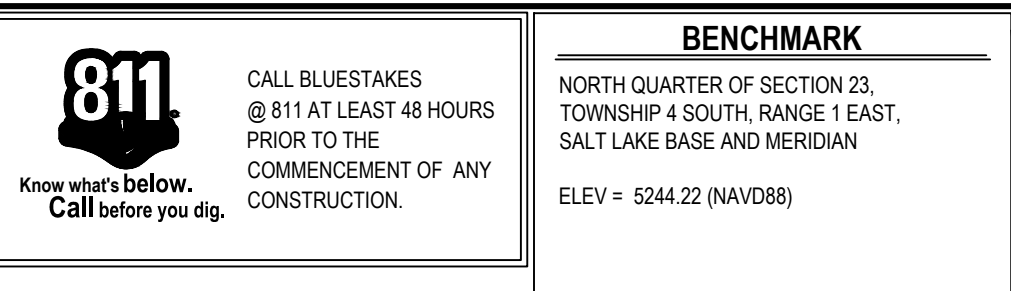
PROJECT NUMBER
8884C

PRINT DATE
8/18/25

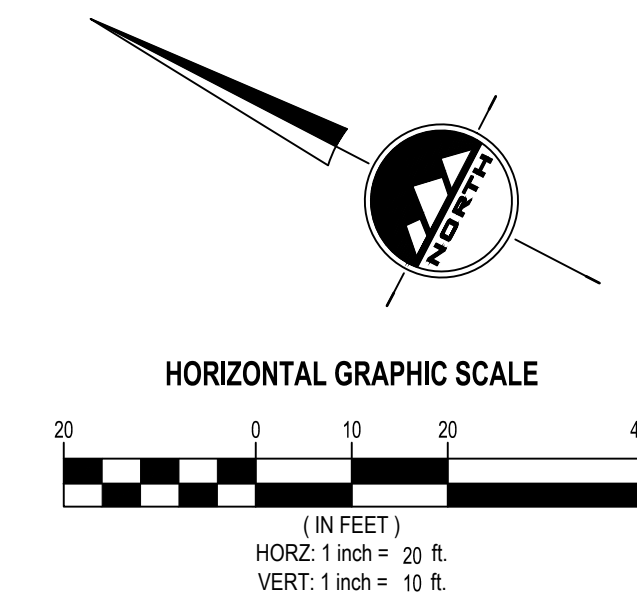
DRAWN BY
J. GERA

CHECKED BY
R. ELDER

PROJECT MANAGER
R. ELDER



Q(100-YR)=131 CFS
Q(100-YR+DEBRIS FLOW)=3661 CFS



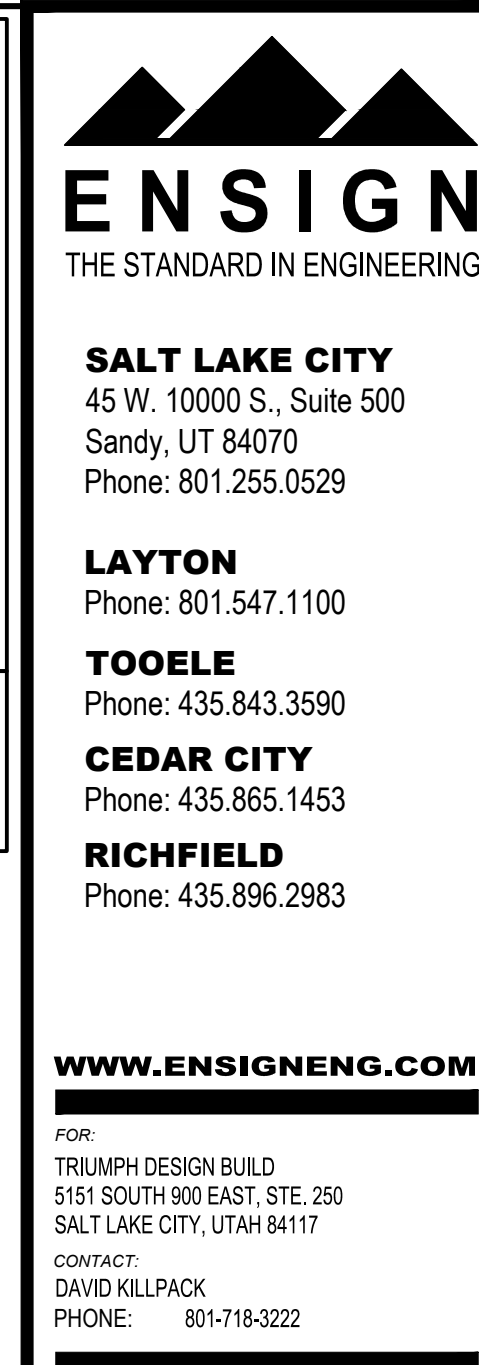
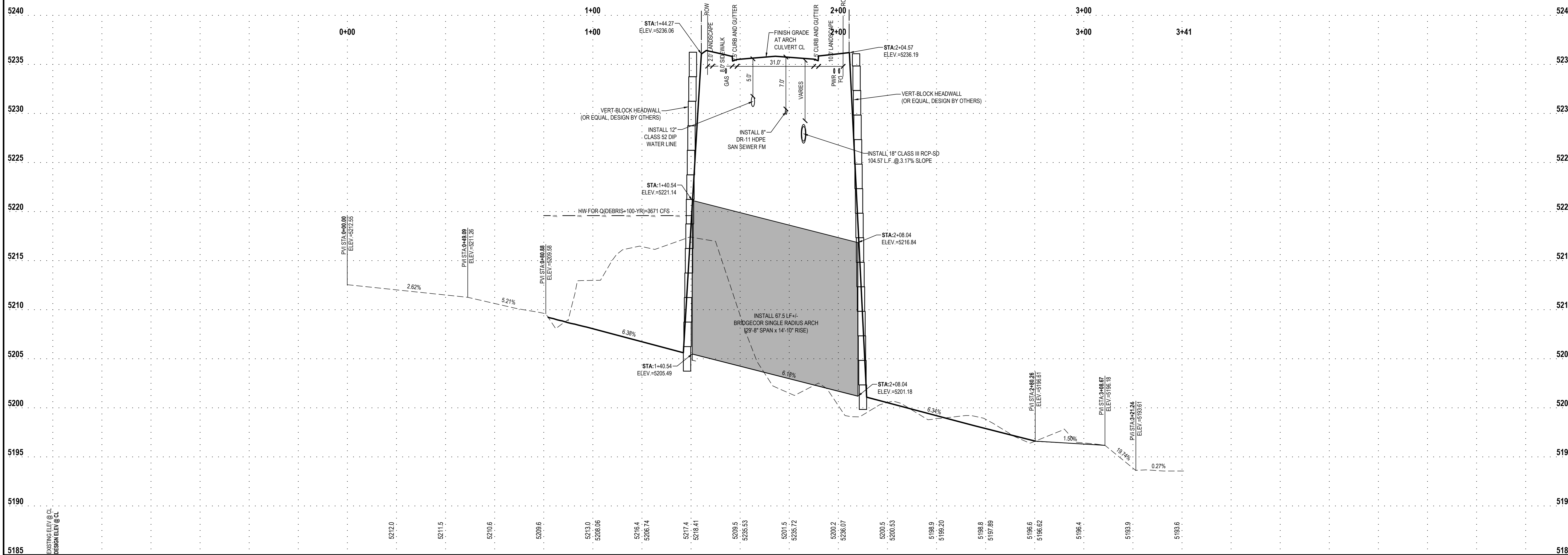
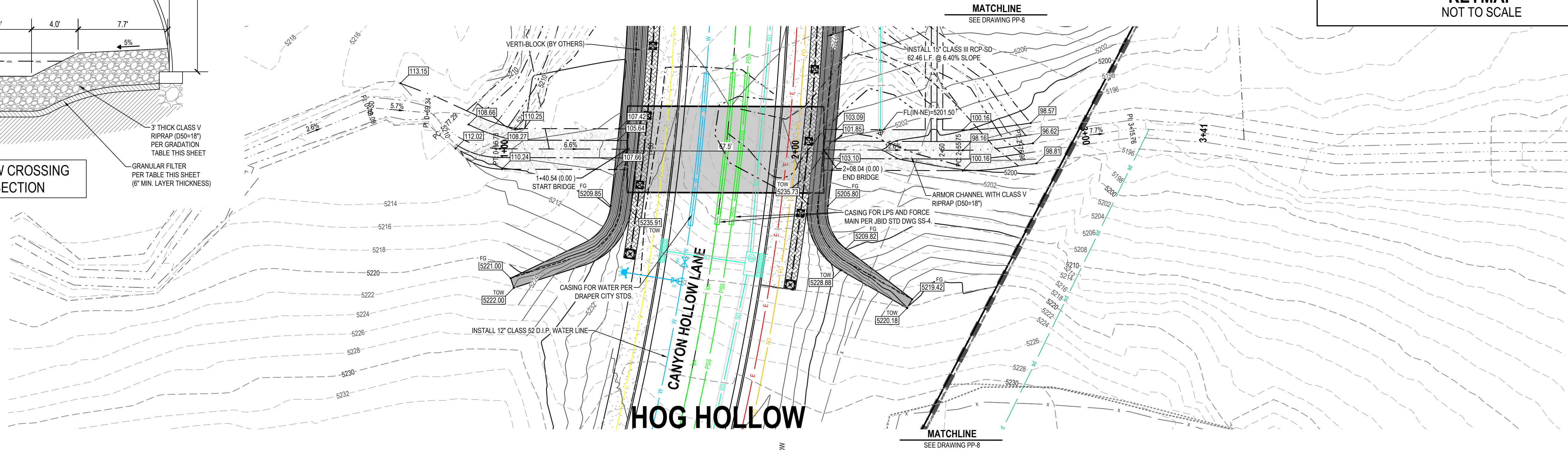
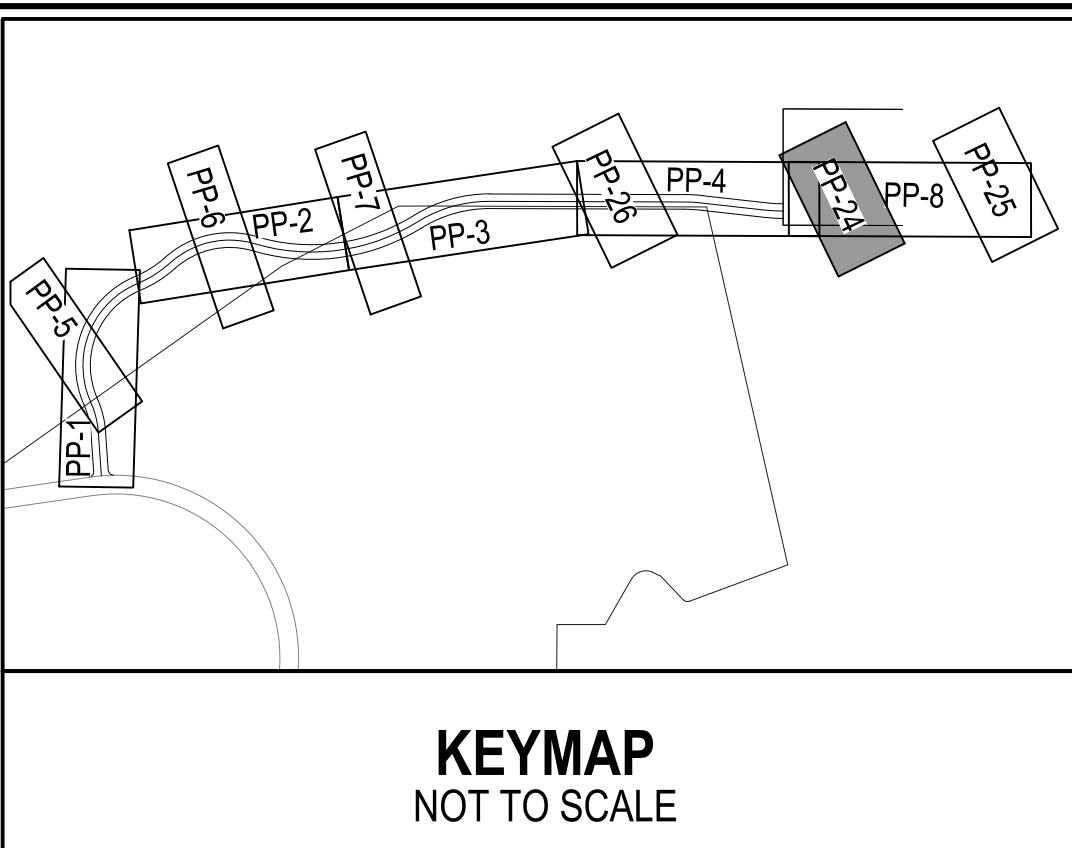
GRANULAR FILTER GRADATIONS	
% Smaller Than Given Size by Given Weight	Size (Inches)
90-100	3
35-90	3/4
0-30	No. 4
0-15	No. 16
0-3	No. 200

LOOSE RIPRAP GRADATIONS			
Riprap Designation	% Smaller Than Given Size by Given Weight	Size (Inches)	D50 (Inches)
Class V	70-100	30	18
	50-70	24	
	35-50	18	
	2-10	6	

RIPRAP & GRANULAR FILTER GRADATIONS

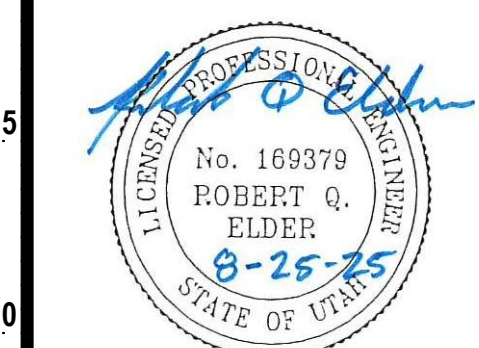
GENERAL NOTES

- | | |
|---|--|
| 1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS. | THICKNESS OF 24 INCHES. TRENCH PLUGS SHALL TO BE 10% BENTONITE AND 90% CLAY MIXTURE. |
| 2. ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS. | 9. THE CARRIER PIPE MUST HAVE ADEQUATE STEEL-BANDED SKIDS. |
| 3. ALL STORM DRAIN INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND SPECIFICATIONS. | 10. WATERLINE PIPES INSIDE THE CASINGS SHALL HAVE RESTRAINING CHAINS. APPROXIMATELY 12" BLOCKS ARE REQUIRED ON ALL BENDS FOR DIP, PVC OR PIP WATERLINES. |
| 4. ALL SANITARY SEWER INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY STANDARD PLANS AND SPECIFICATIONS. | 11. THE CONCRETE MIX SHALL INCLUDE BETWEEN 5% AND 7% AIR ENTRAINMENT. |
| 5. ALL WATER INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY STANDARD PLANS AND SPECIFICATIONS. | 12. PVC WATER STOP, OR EQUIVALENT, IS REQUIRED IN ALL JOINTS OF CAST-IN-PLACE CONCRETE. |
| 6. NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING CONCRETE, ASPHALT, UTILITY STRUCTURES OR PIPES. | 13. ALL SANITARY SEWER CONSTRUCTION SHALL COMPLY WITH JORDAN BASIN IMPROVEMENT DISTRICT'S DESIGN STANDARDS AND SPECIFICATIONS. |
| 7. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS. | CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE OPENING OR CONSTRUCTING ANY NEW SEWER LINES. |
| 8. ALL TRENCH PLUGS ARE TO BE EXTENDED THE WIDTH OF TRENCH 12 INCHES ABOVE AND BELOW CASING PIPES, AND WITH A | 15. FOUR FEET OF COVER IS REQUIRED OVER ALL SEWER LINES. |



ALPINE HOLLOW SUBDIVISION

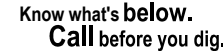
**15900 SOUTH 2800 EAST
DRAPER, UTAH**



**HOG HOLLOW
PLAN AND PROFILE**

PROJECT NUMBER	PRINT DATE
8684C	8/25/25
DRAWN BY	CHECKED BY
J. GERA	R. ELDER
PROJECT MANAGER	
R. ELDER	

PP-24

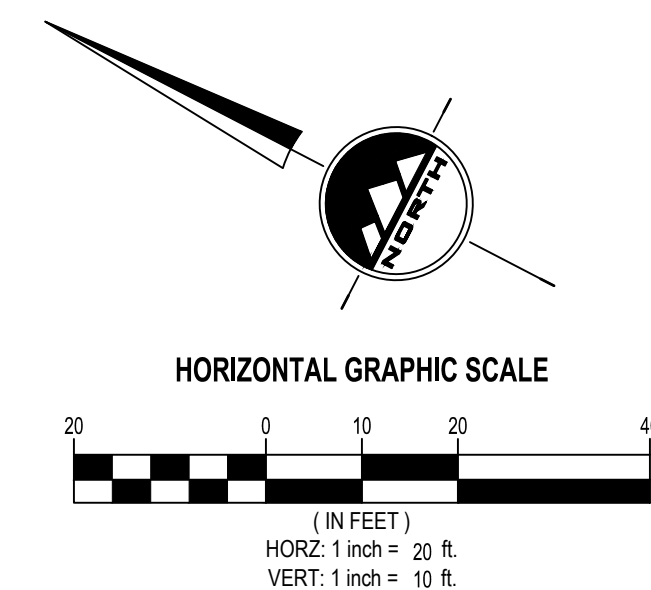


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CONSTRUCTION.

BENCHMARK

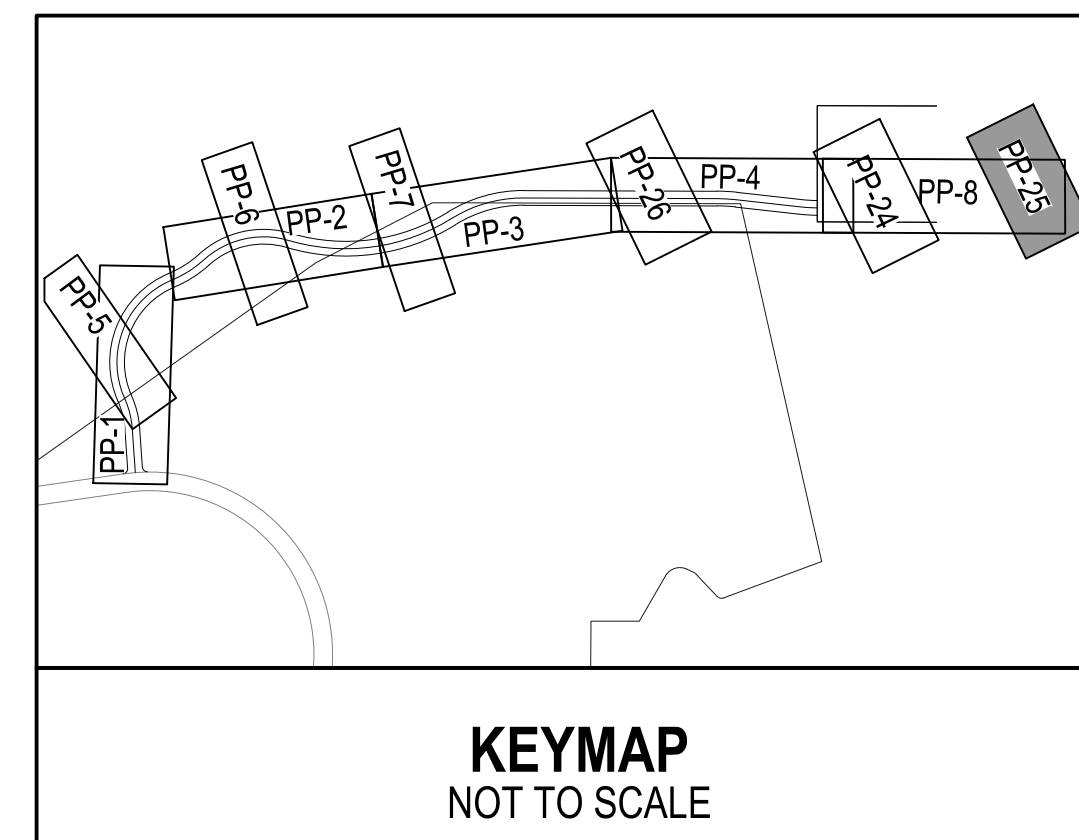
NORTH QUARTER OF SECTION 23,
TOWNSHIP 4 SOUTH, RANGE 1 EAST,
SALT LAKE BASE AND MERIDIAN

ELEV = 5244.22 (NAVD88)



GENERAL NOTES

1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
2. ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS.
3. ALL STORM DRAIN INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND SPECIFICATIONS.
4. ALL SANITARY SEWER INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY STANDARD PLANS AND SPECIFICATIONS.
5. ALL SLOPE INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND SPECIFICATIONS.
6. NOTIFY EMPLOYER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING CONCRETE, ASPHALT, UTILITY STRUCTURES OR PIPES.
7. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.
8. ALL TRENCH PLUGS ARE TO BE EXTENDED THE WIDTH OF TRENCH, 12 INCHES ABOVE AND BELOW WATERING PIPES, AND WITH A THICKNESS OF 24 INCHES. TRENCH PLUGS SHALL TO BE 10% BENTONITE AND 90% CLAY MIXTURE.
9. THE CARRIER PIPE MUST HAVE ADEQUATE STEEL-BAND SKIDS.
10. WATERLINE PIPES INSIDE THE CASINGS SHALL HAVE RESTRAINING JOINTS. ADEQUATE THRUST BLOCKS ARE REQUIRED ON ALL BENDS FOR DIP, PVC OR PIPE WATERLINES.
11. THE CONCRETE MIX SHALL INCLUDE BETWEEN 5% AND 7% AIR ENTRAINMENT.
12. PVC WATER STOP, OR EQUIVALENT, IS REQUIRED IN ALL JOINTS OF CAST-IN-PLACE CONCRETE.
13. ALL SANITARY SEWER CONSTRUCTION SHALL COMPLY WITH SOUTH VALLEY SEWER DISTRICT'S DESIGN STANDARDS AND SPECIFICATIONS.
14. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTING ANY NEW SEWER LINES.
15. FOUR FEET OF COVER IS REQUIRED OVER ALL SEWER LINES.



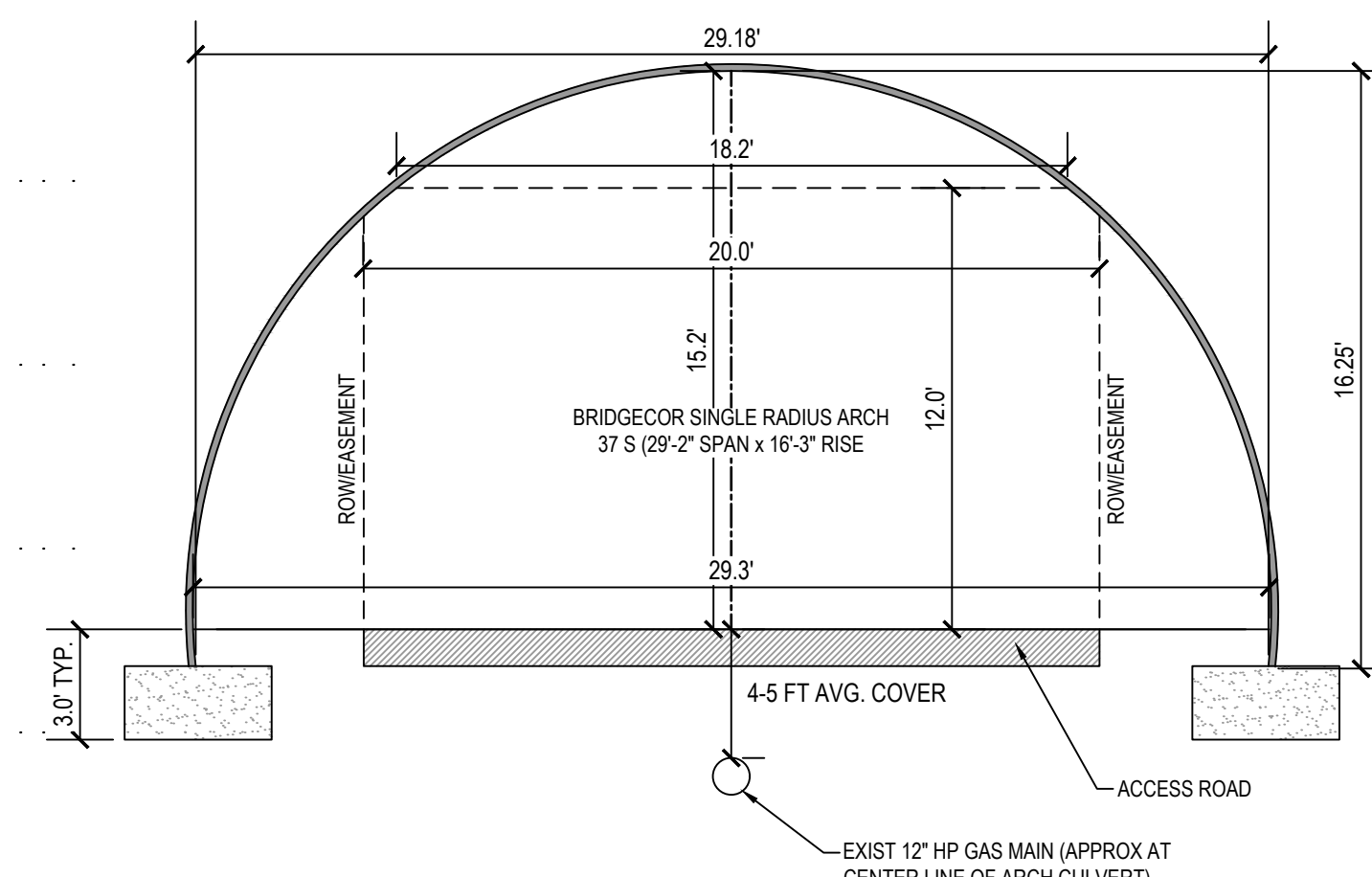
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SALT LAKE CITY, UTAH 84117

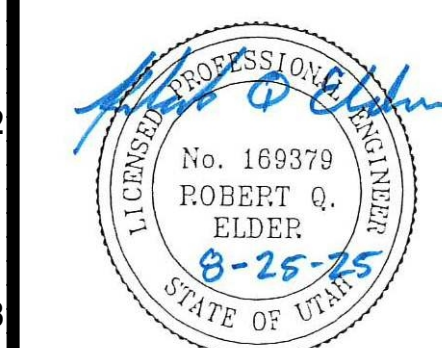
CONTACT:
DAVID KILLPACK
PHONE: 801-718-3222

ALPINE HOLLOW SUBDIVISION

15900 SOUTH 2800 EAST
DRAPER, UTAH



GAS LINE TRAIL
CROSS SECTION



TRAIL PLAN AND PROFILE

PROJECT NUMBER	PRINT DATE
8684C	8/25/25
DRAWN BY	CHECKED
J. GERA	R. ELDER
PROJECT MANAGER	
R. ELDER	

PP-25

5208

811

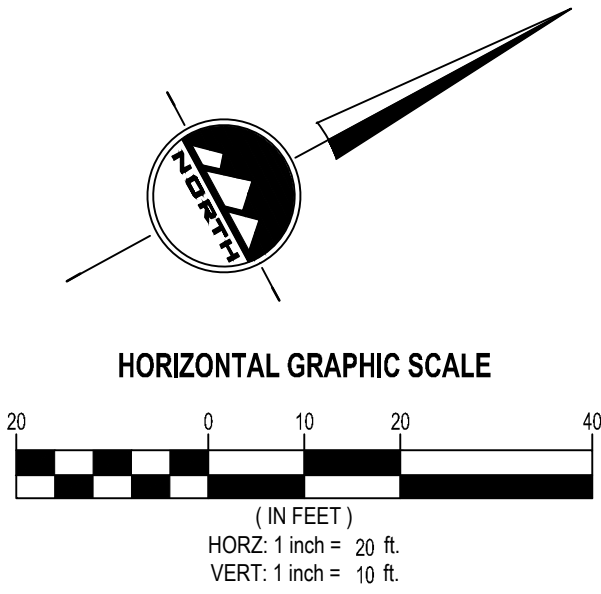
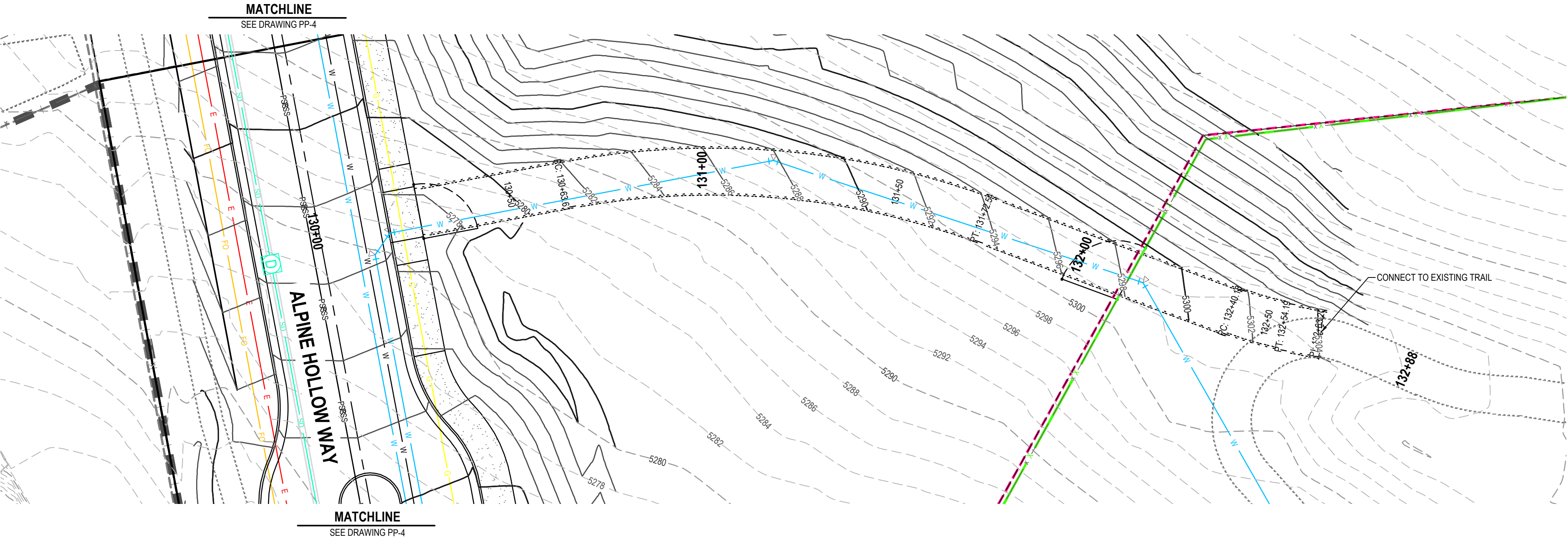
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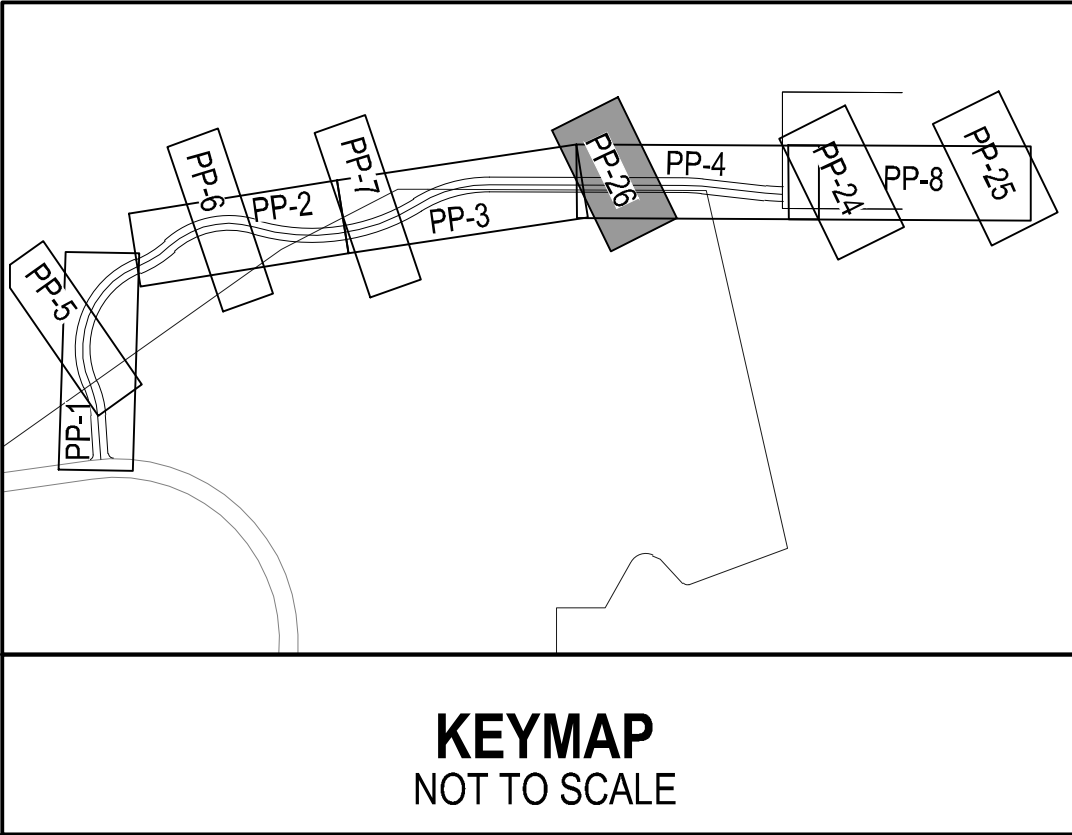
BENCHMARK

NORTH QUARTER OF SECTION 23,
TOWNSHIP 4 SOUTH, RANGE 1 EAST,
SALT LAKE BASE AND MERIDIAN

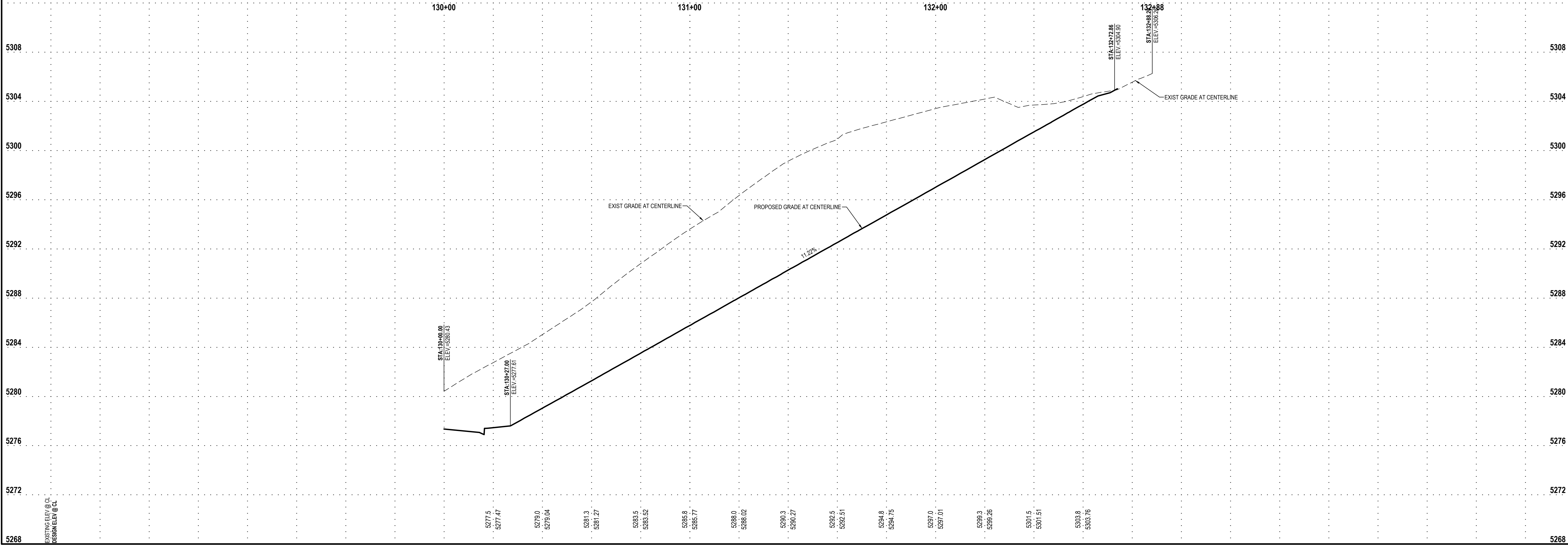
ELEV = 5244.22 (NAVD88)



- GENERAL NOTES**
1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
 2. ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS.
 3. ALL STORM DRAIN INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND SPECIFICATIONS.
 4. ALL SANITARY SEWER INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY STANDARD PLANS AND SPECIFICATIONS.
 5. ALL WATER INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND SPECIFICATIONS.
 6. NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING CONCRETE, ASPHALT, UTILITY STRUCTURES OR PIPES.
 7. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.
 8. ALL TRENCH PLUGS ARE TO BE EXTENDED THE WIDTH OF TRENCH, 12 INCHES ABOVE AND BELOW CASING PIPES, AND WITH A THICKNESS OF 24 INCHES. TRENCH PLUGS SHALL TO BE 10% BENTONITE AND 90% CLAY MIXTURE.
 9. THE CARRIER PIPE MUST HAVE ADEQUATE STEEL-BANDED SKIDS.
 10. WATERLINE PIPES INSIDE THE CASINGS SHALL HAVE RESTRAINING JOINTS. ADEQUATE THRUST BLOCKS ARE REQUIRED ON ALL BENDS FOR DIP, PVC OR RIP WATERLINES.
 11. THE CONCRETE MIX SHALL INCLUDE BETWEEN 5% AND 7% AIR ENTRAINMENT.
 12. PVC WATER STOP, OR EQUIVALENT, IS REQUIRED IN ALL JOINTS OF CAST-IN-PLACE CONCRETE.
 13. ALL SANITARY SEWER CONSTRUCTION SHALL COMPLY WITH SOUTH VALLEY SEWER DISTRICT'S DESIGN STANDARDS AND SPECIFICATIONS.
 14. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTING ANY NEW SEWER LINES.
 15. FOUR FEET OF COVER IS REQUIRED OVER ALL SEWER LINES.



TRAIL ACCESS



SALT LAKE CITY
45 W. 10000 S., Suite 500
Sandy, UT 84070
Phone: 801.255.0529

LAYTON
Phone: 801.547.1100

TOOELE
Phone: 435.843.3590

CEDAR CITY
Phone: 435.865.1453

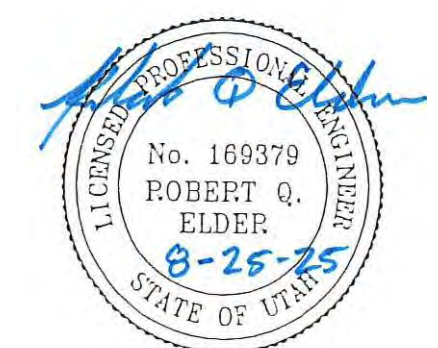
RICHFIELD
Phone: 435.896.2983

WWW.ENSIGNENG.COM

FOR:
TRIUMPH DESIGN BUILD
5151 SOUTH 900 EAST, STE. 250
SALT LAKE CITY, UTAH 84117

CONTACT:
DAVID KILLPACK
PHONE: 801-716-3222

**ALPINE HOLLOW SUBDIVISION
PRELIMINARY SUBMITTAL**
15900 SOUTH 2800 EAST
DRAPER, UTAH

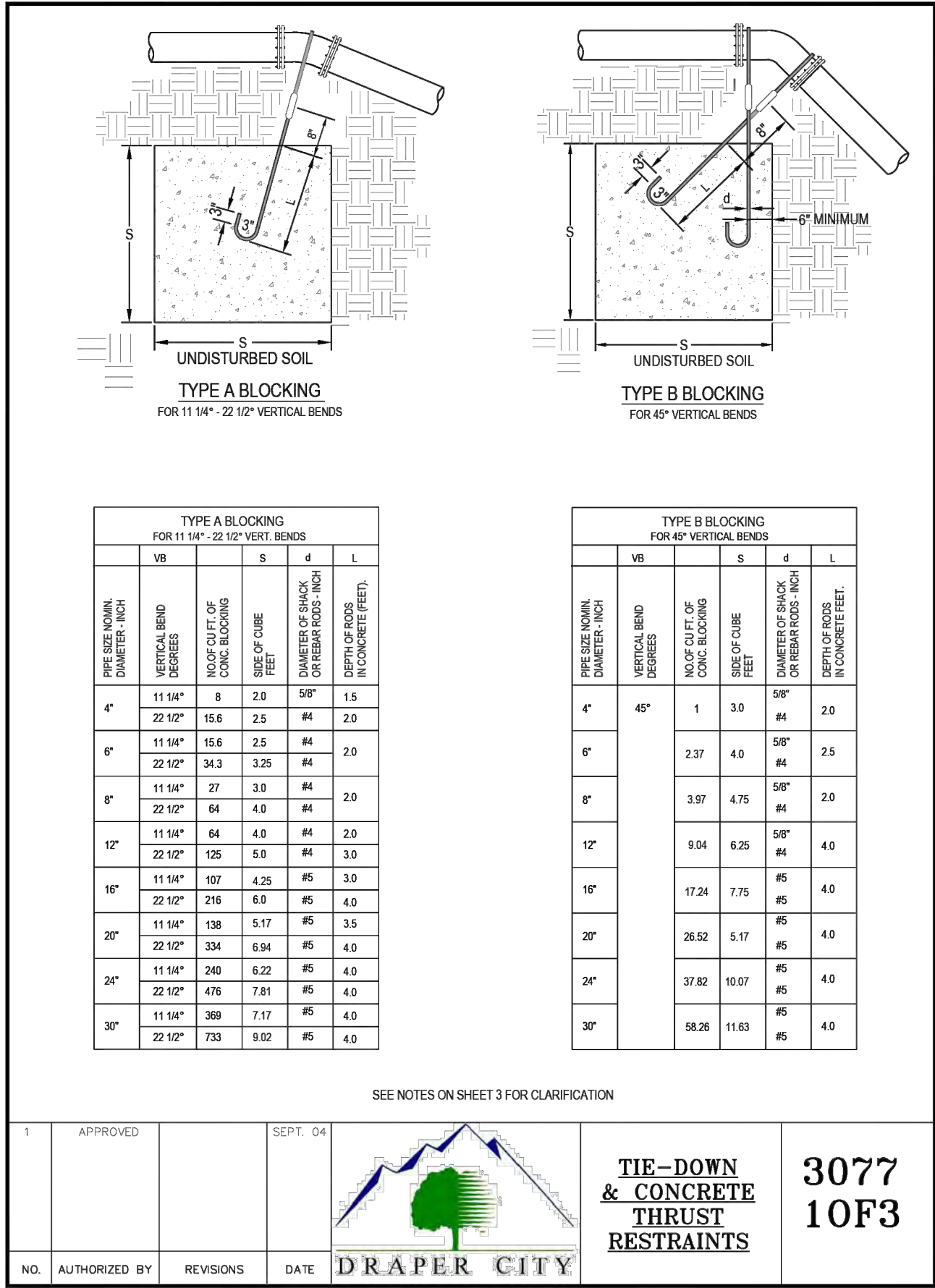


**TRAIL ACCESS
PLAN AND PROFILE**

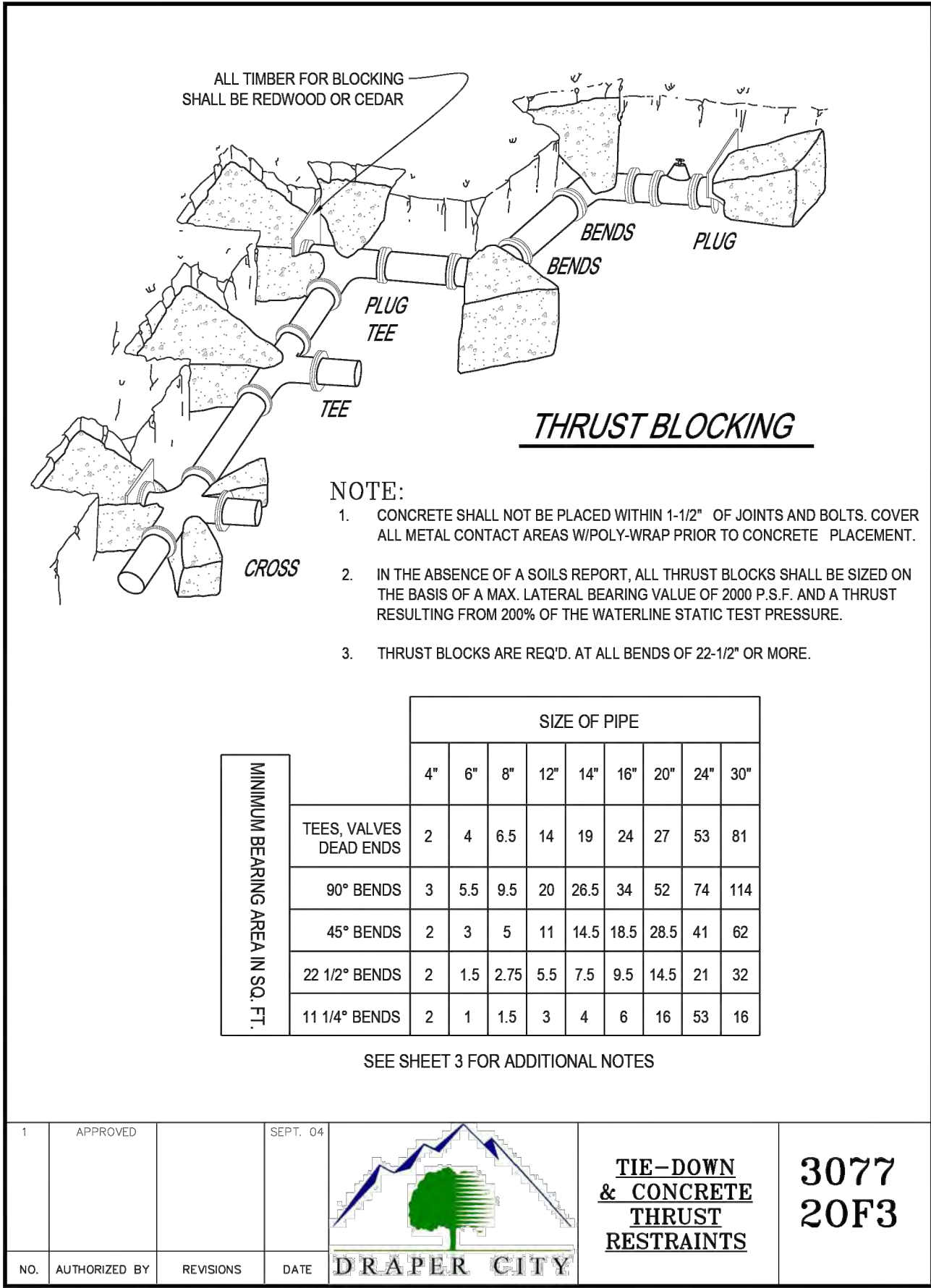
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8884E
PRINT DATE
8/12/24
DRAWN BY
J. GERA
CHECKED BY
R. ELDER
PROJECT MANAGER
R. ELDER

PP-26

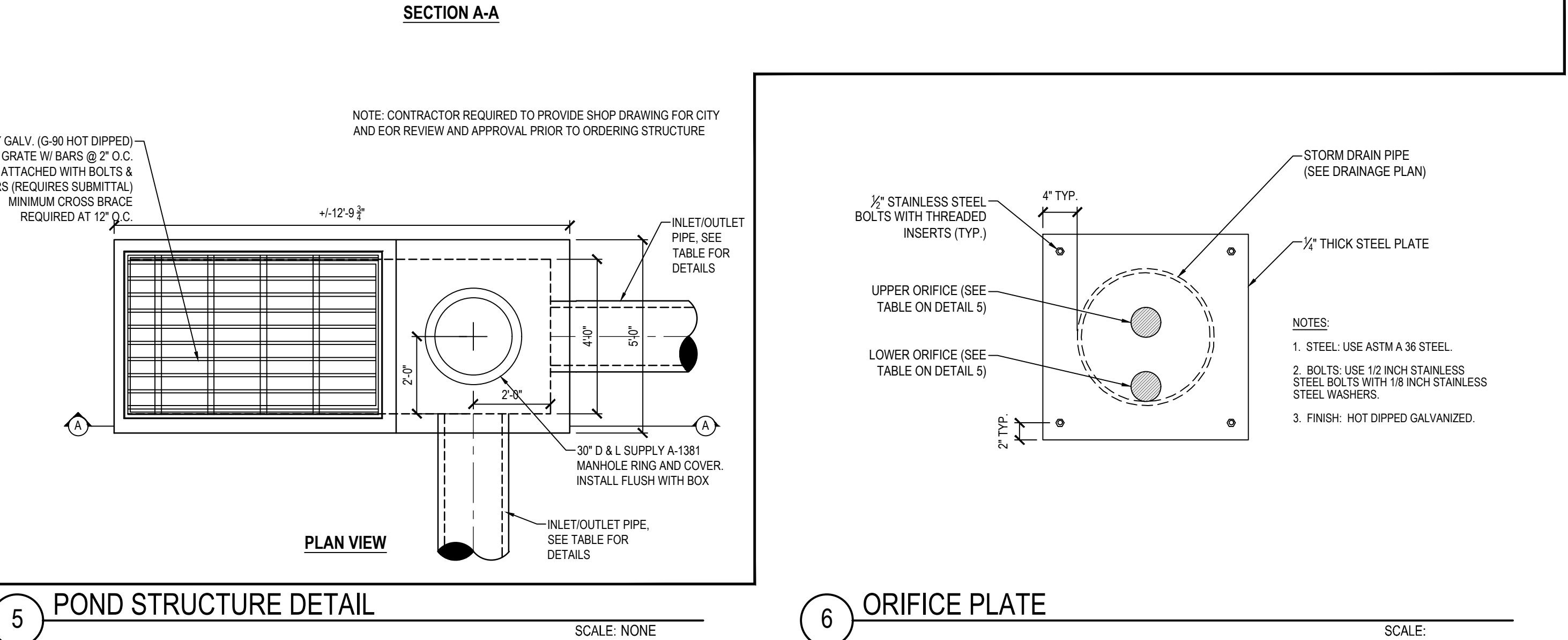
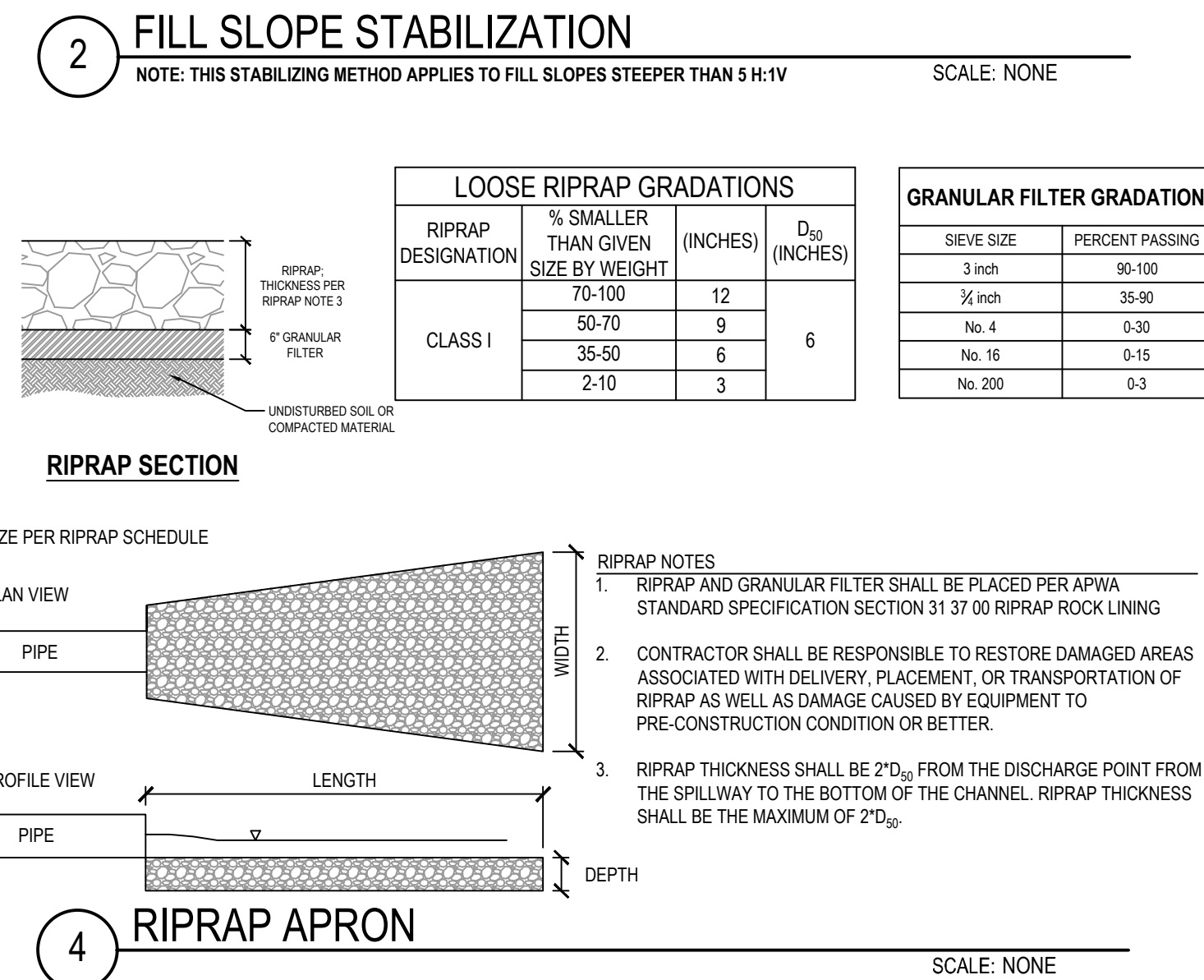
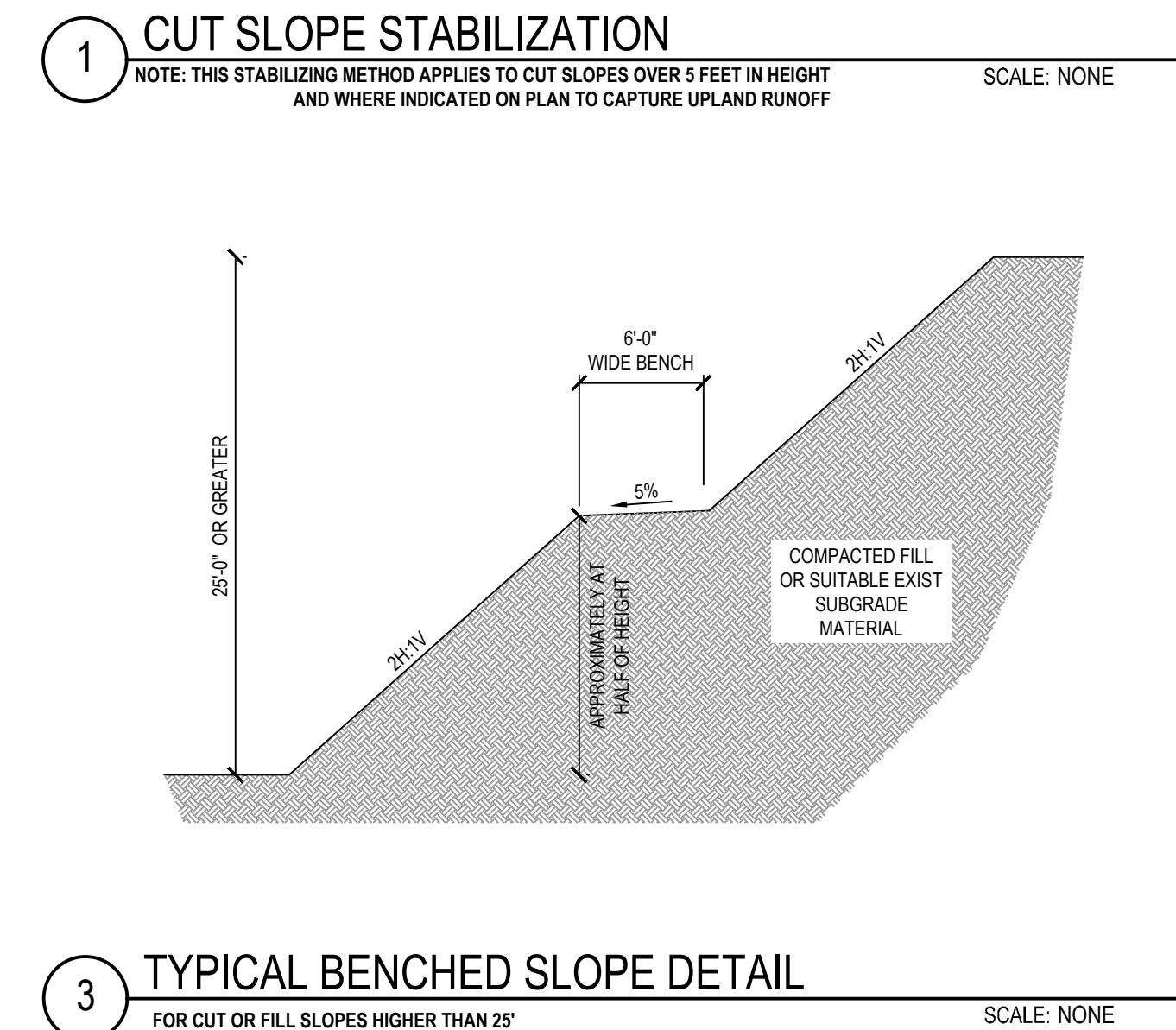
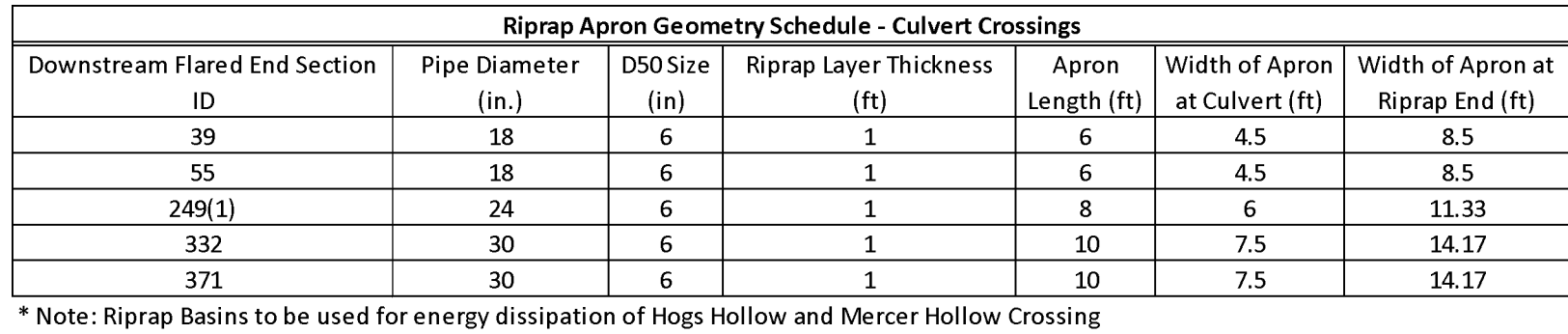
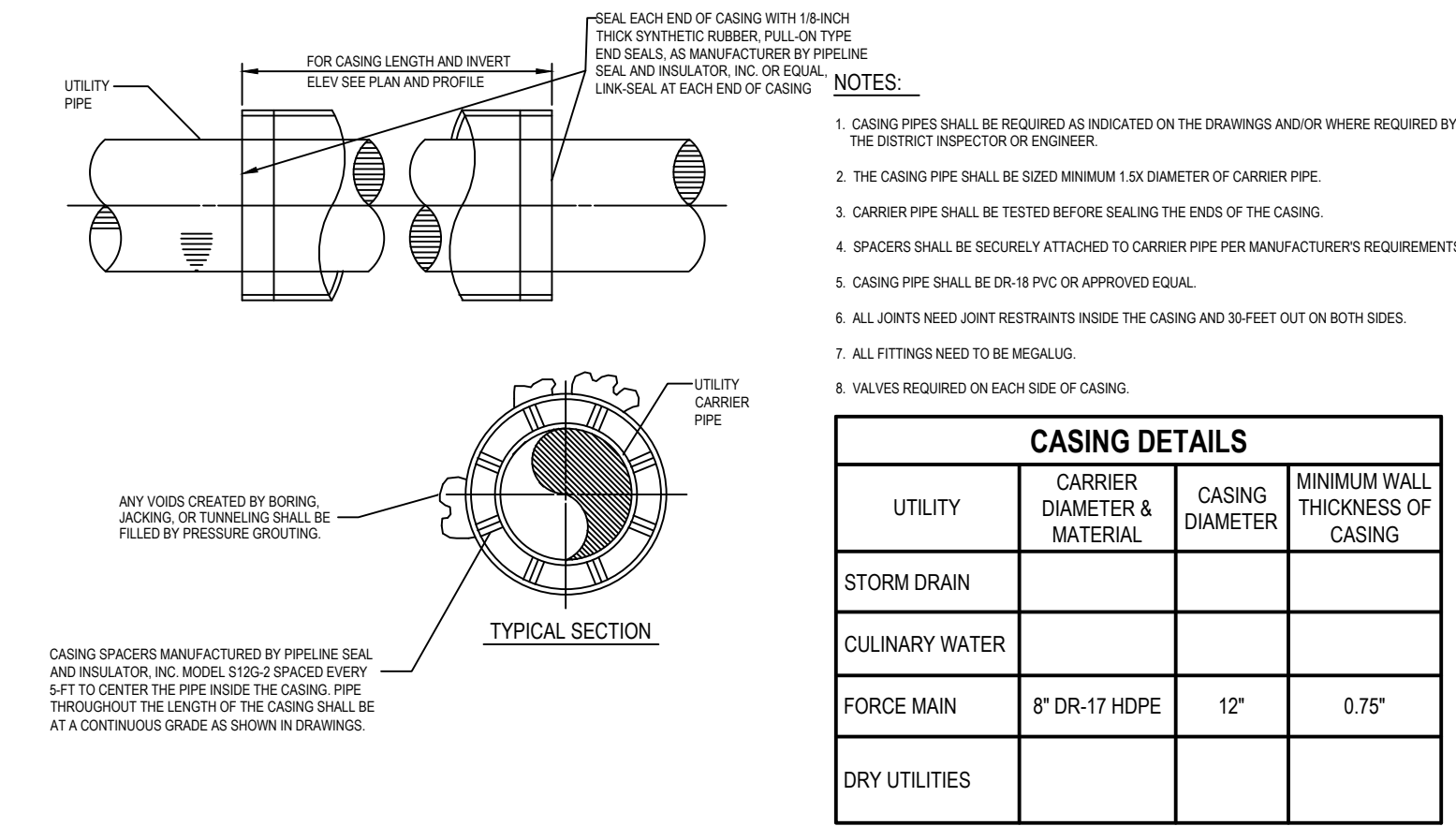
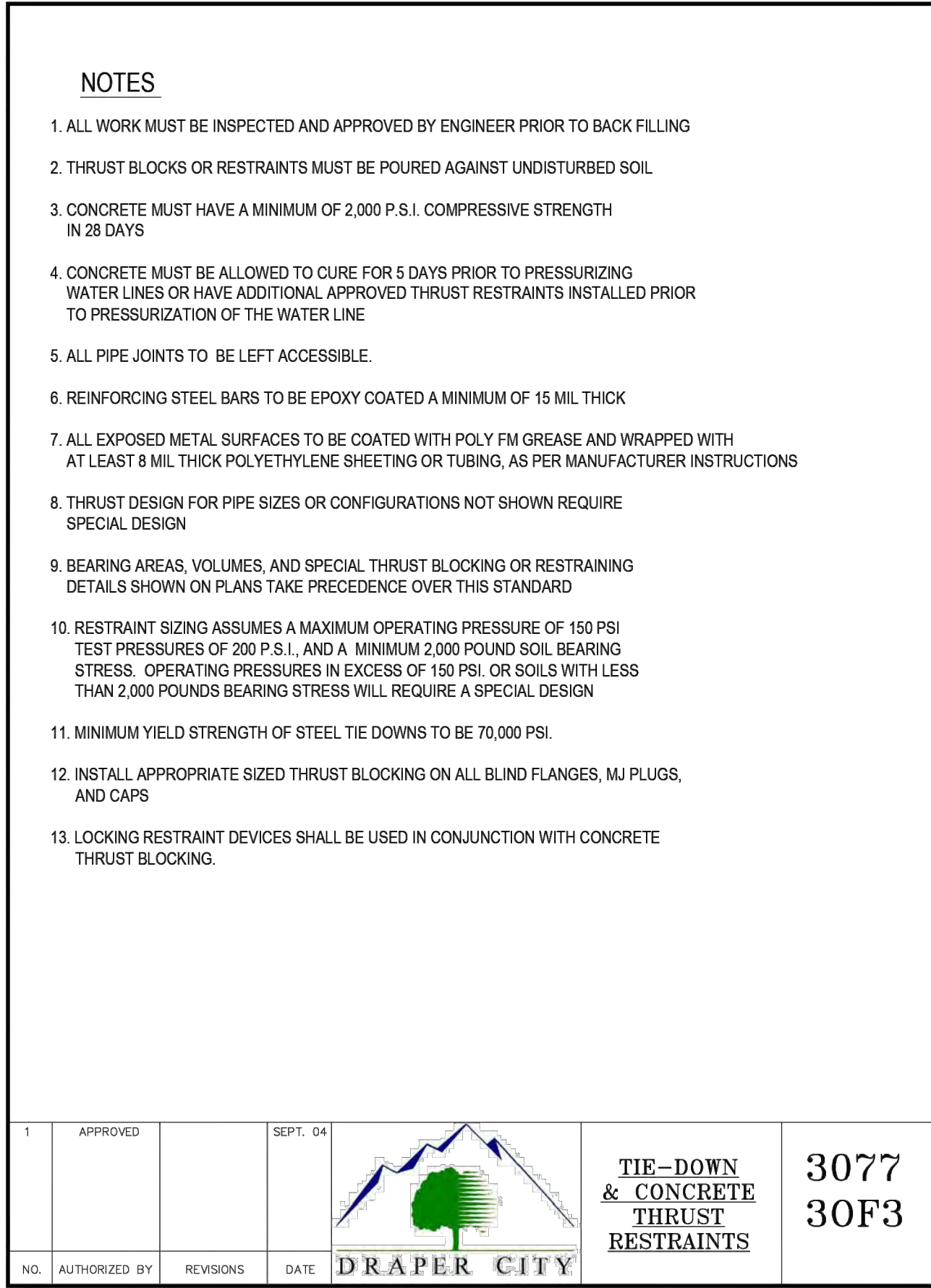
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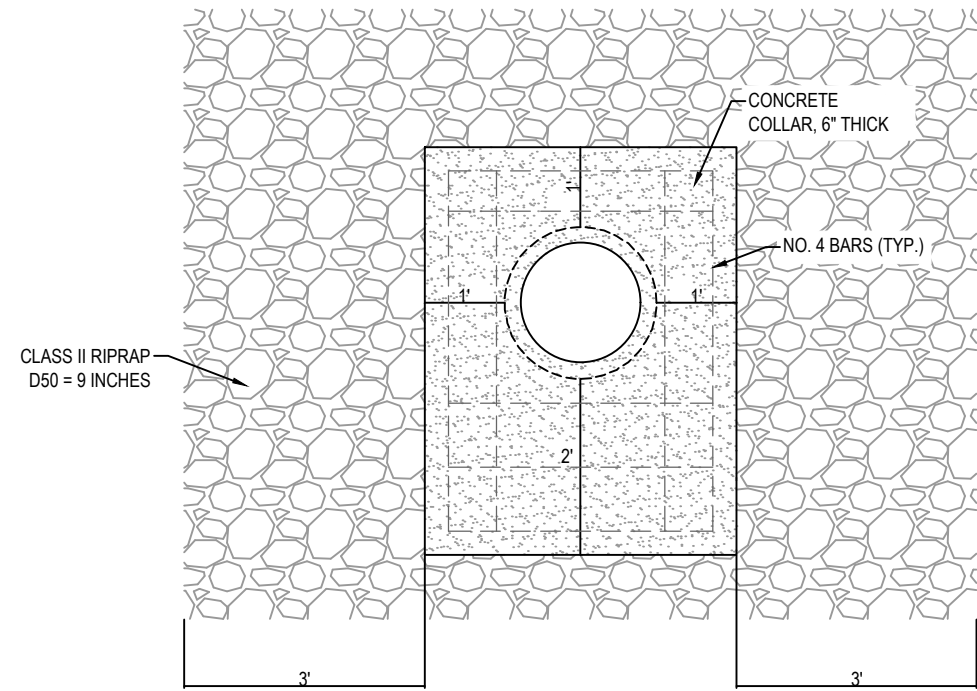
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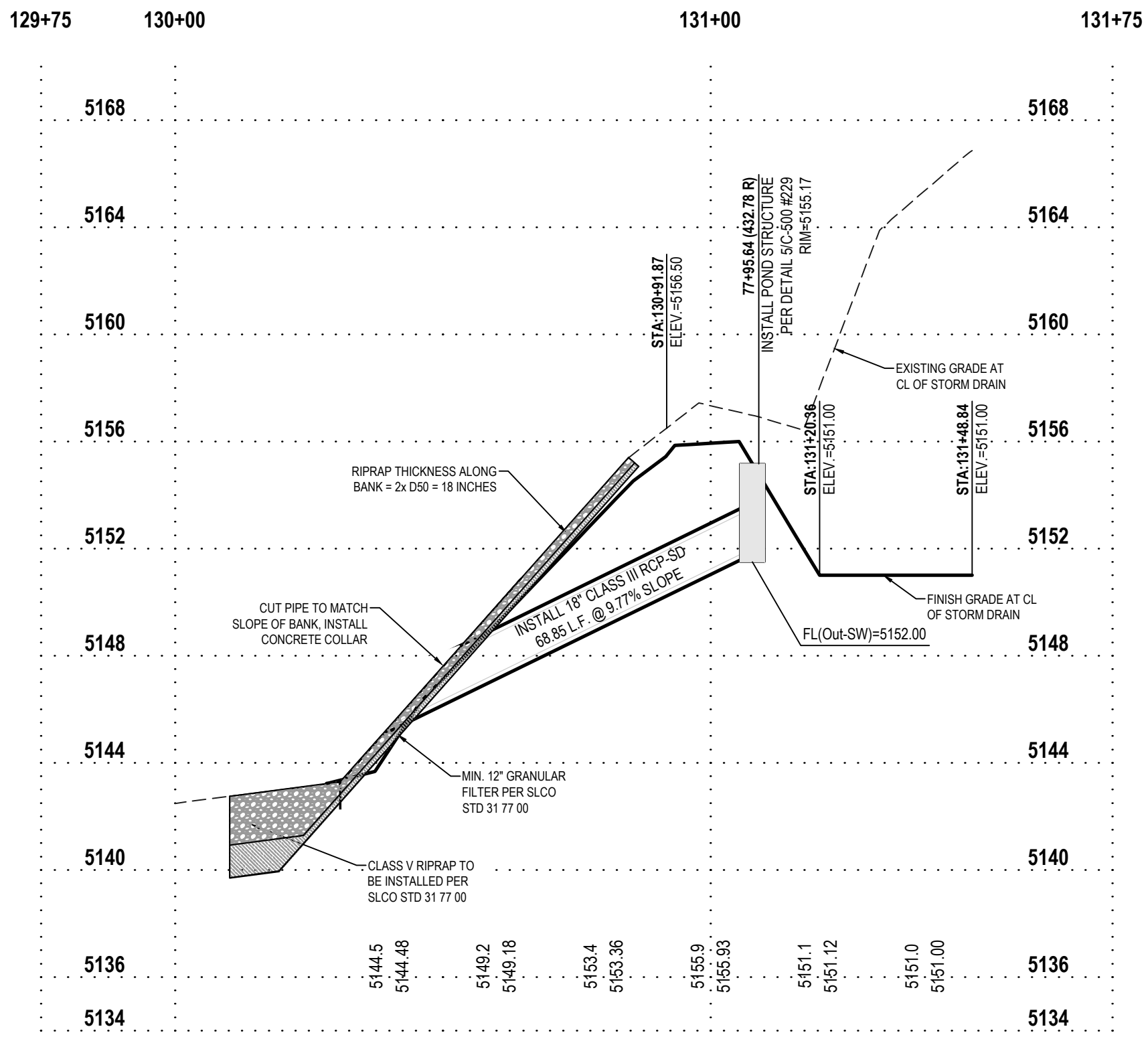
NOTES:
1. REINFORCING BARS TO BE DEFORMED, 60 KSI YIELD GRADE STEEL, ASTM A615.
2. CONCRETE TO BE CLASS 4000, APWA SECTION 03 30 04.



CONCRETE COLLAR DETAIL

GRANULAR FILTER GRADATIONS		
% Smaller Than Given Size by Given Weight	Size (Inches)	
90-100	3	
35-90	3/4	
0-30	No. 4	
0-15	No. 16	
0-3	No. 200	

RIPRAP & GRANULAR FILTER GRADATIONS

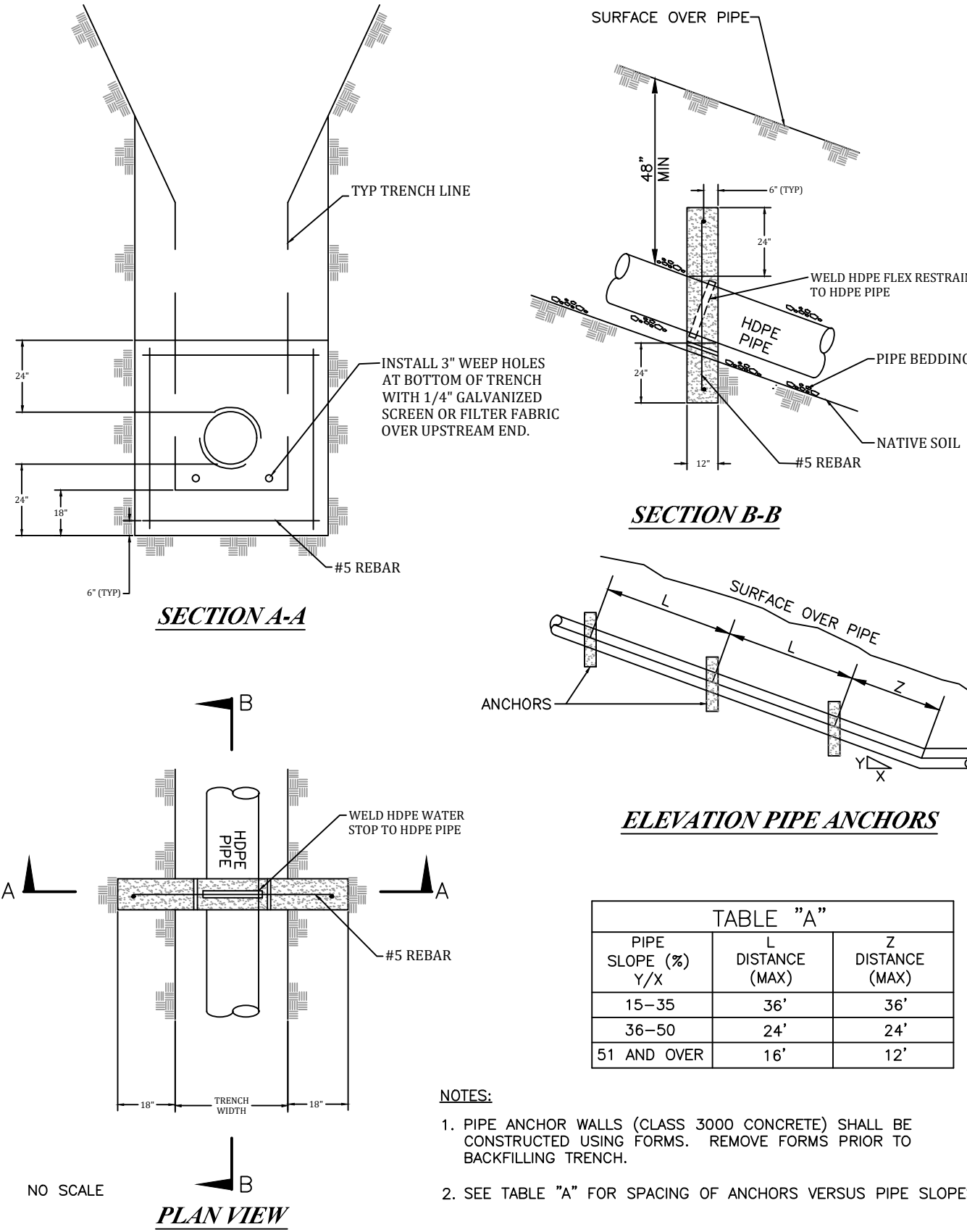


CROSS SECTION VIEW AT PIPE OUTLET

NOTE: VERTICAL EXAGGERATION OF 10

SCALE: NONE

1 OUTFALL TO HOG HOLLOW CHANNEL



NOTES:

- PIPE ANCHOR WALLS (CLASS 3000 CONCRETE) SHALL BE CONSTRUCTED USING FORMS. REMOVE FORMS PRIOR TO BACKFILLING TRENCH.
- SEE TABLE "A" FOR SPACING OF ANCHORS VERSUS PIPE SLOPES.

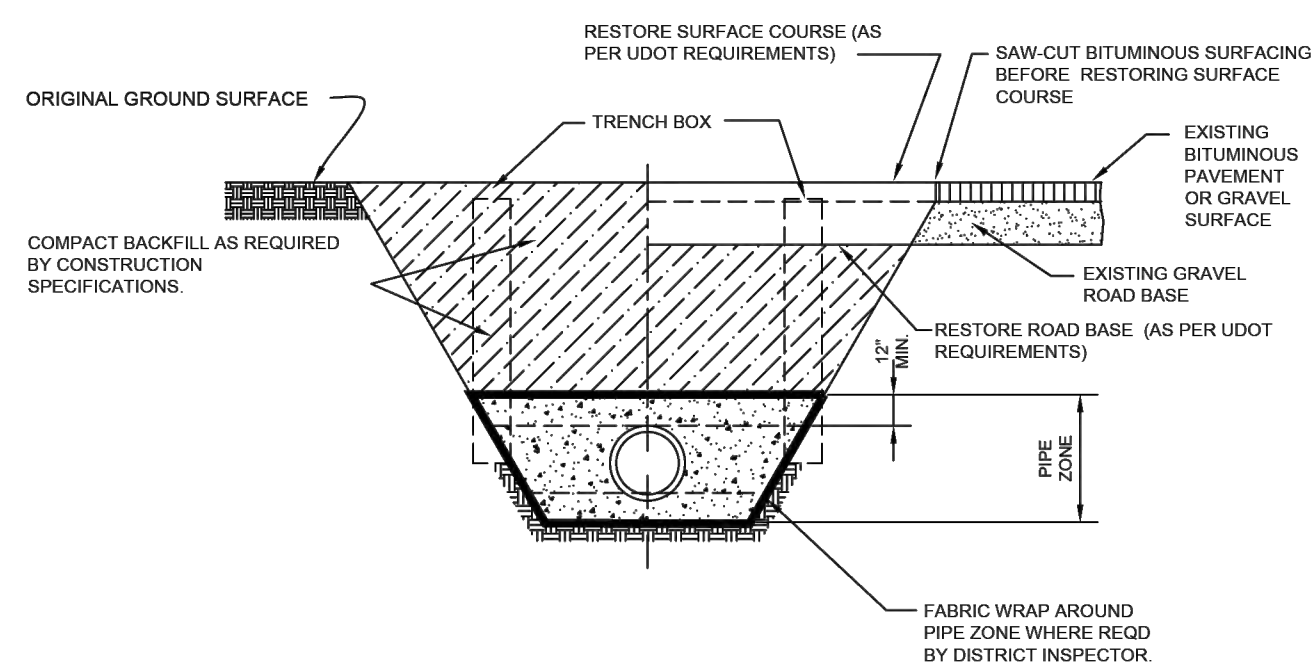
TABLE "A"		
PIPE SLOPE (%) Y/X	L DISTANCE (MAX)	Z DISTANCE (MAX)
15-35	36"	36"
36-50	24"	24"
51 AND OVER	16"	12"

2 PIPE ANCHOR DETAIL

SCALE: NONE

3 SEWAGE FORCE MAIN - VENTOMAT COMBINATION AIR VALVE VAULT AND VENTS DETAILS

SCALE: NONE

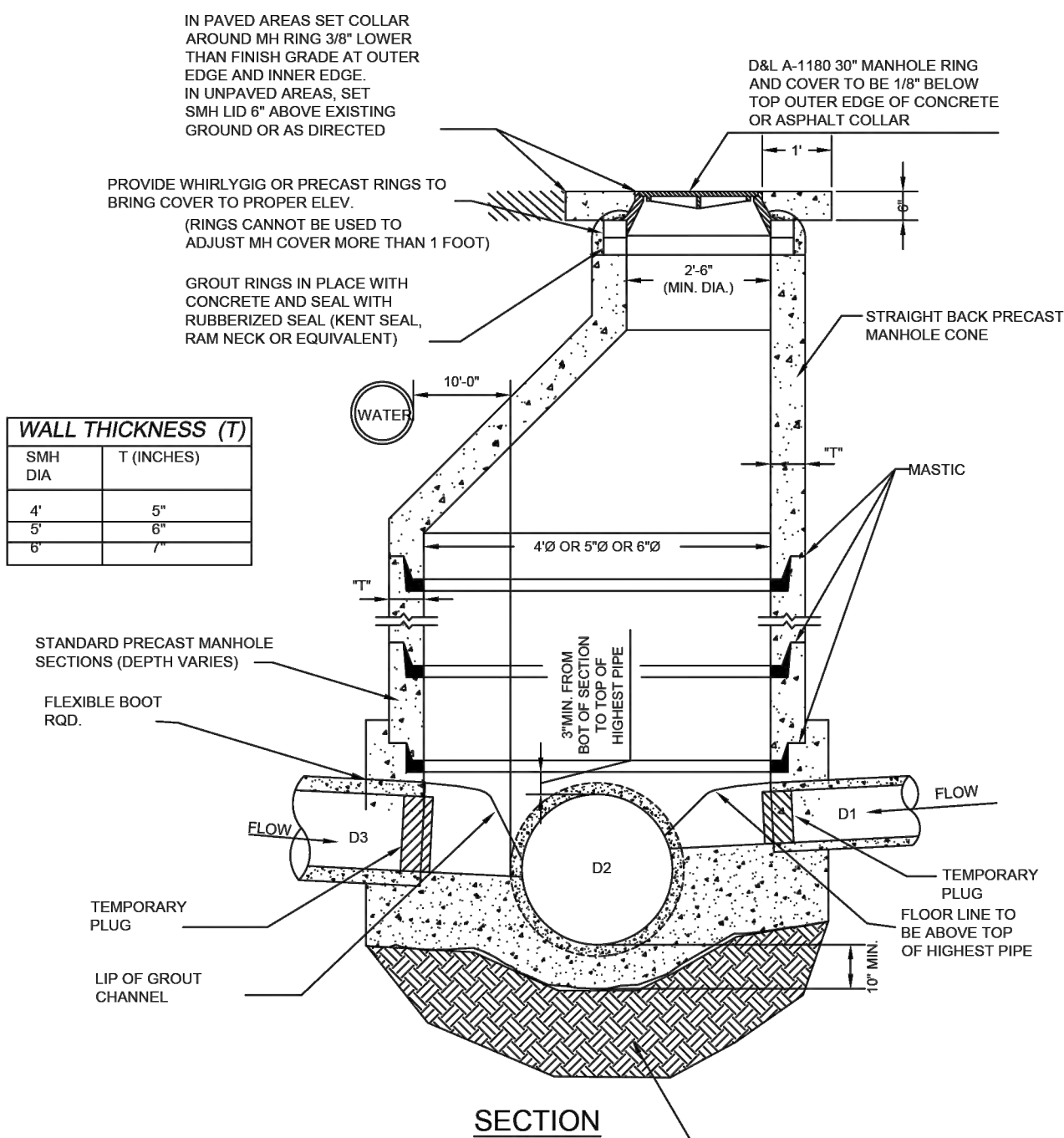


CROSS-SECTION: TYPICAL TRENCH

NOTES:

- ALL SEWER LINES TO BE INSTALLED IN PUBLIC RIGHT-OF-WAY OR RECORDED SEWER EASEMENT UNLESS OTHERWISE APPROVED BY SOUTH VALLEY SEWER DISTRICT.
- THE DISTRICT RECOMMENDS CONTRACTOR MEET ALL OF THE REQUIREMENTS ESTABLISHED FOR SAFE TRENCHING. (SEE OSHA AND UOSH REQUIREMENTS, LATEST EDITIONS).
- CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BEFORE LAYING PIPE WITHIN 50' OF SAID UTILITIES WHICH MAY BE EXPOSED, DAMAGED OR CROSSED AS SHOWN ON THE DRAWINGS OR AS "BLUE STAKED". THE CONTRACTOR WILL MAKE ARRANGEMENTS WITH THE UTILITY COMPANY TO MOVE THE UTILITY IF NECESSARY OR OBTAIN PERMISSION FROM THE DISTRICT ENGINEER TO MODIFY GRADE OF PIPELINE IN ORDER TO GO AROUND UTILITIES.
- TESTING: ALL NEW SANITARY SEWERS TO BE "TELEVIEWED" AND NECESSARY REPAIRS MADE BEFORE ACCEPTANCE. ALL LINES SHALL BE PRESSURE TESTED TO 4.0 PSI MIN. FOR 5 MINUTES. A MANHOLE OR BALL CAN BE USED TO VERIFY DEFORMATION OF A PIPE AS DETERMINED FROM THE VIDEO UNLESS SPECIFIED OTHERWISE. ALL SEWER LINES SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS FOR ASTM F1417-98 AND UBPPA UNI-B-6.
- ASPHALT RESTORATION SHALL MATCH EXISTING TO A MAXIMUM OF 6" AND SHALL INCLUDE A 6" UNTREATED BASE COURSE AND 12" GRANULAR BORROW COURSE AS PER UDOT STANDARDS.

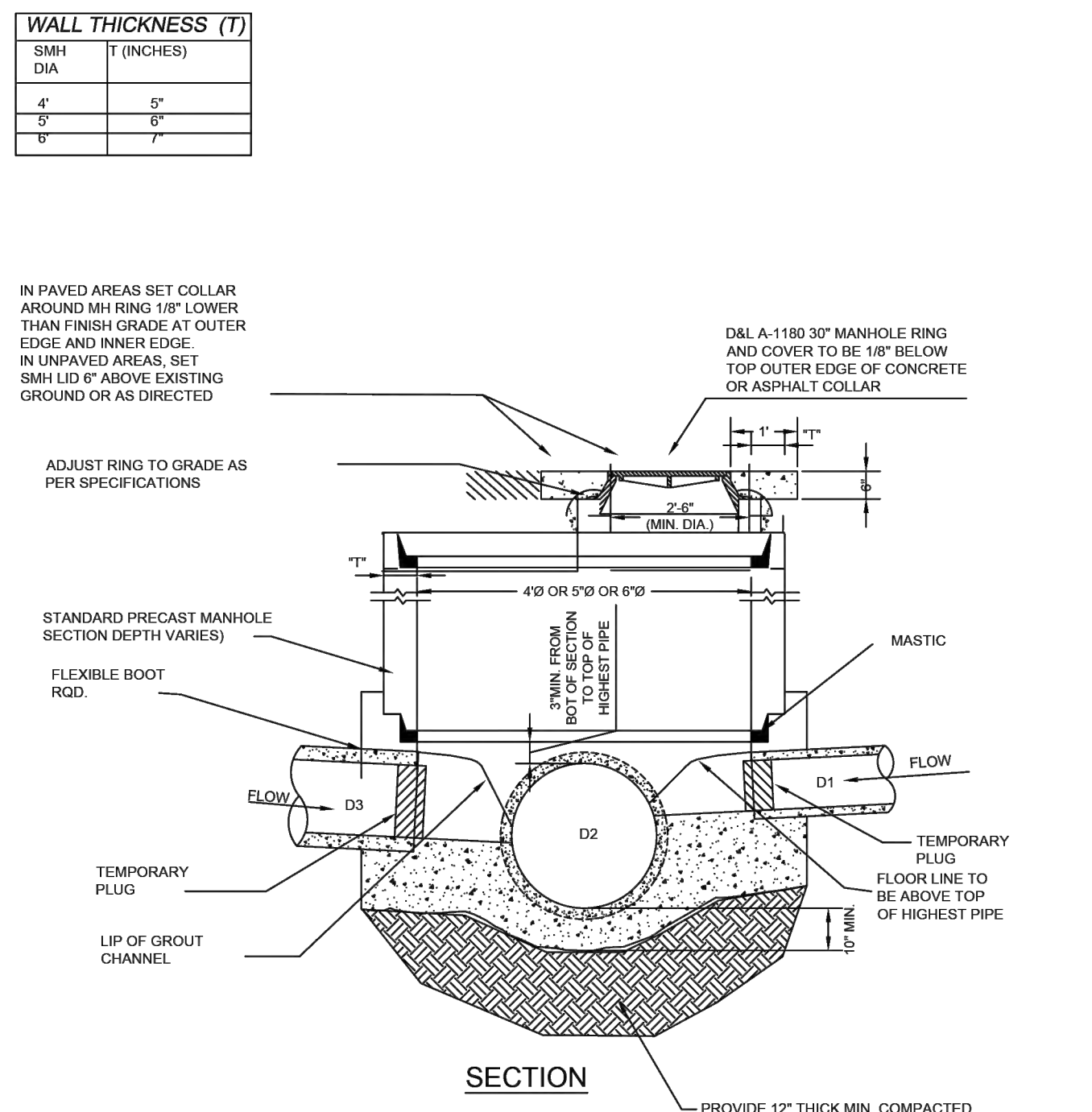
NO SCALE



NOTES:

- IF GRADE ALLOWS, INVERTS OF D1 & D3 SHALL MATCH THE 0.75 DEPTH POINT OF D2. OTHERWISE AS APPROVED BY DISTRICT.
- AFTER ALL GRADING AROUND MANHOLE HAS BEEN COMPLETED AND FINAL SURFACING IS IN PLACE, REMOVE DEBRIS AND TEMPORARY PLUGS OR PLYWOOD FROM INSIDE OF MANHOLES. SET MANHOLE FRAME AND COVER TO 18" BELOW FINISH GRADE AFTER FINAL STREET GRADING.
- IS COMPLETE.
- CONE AND WALL SECTIONS TO CONFORM TO ASTM C-478.
- PLUG OUTLET OF DOWNSTREAM MANHOLE UNTIL CONSTRUCTION IS COMPLETE.

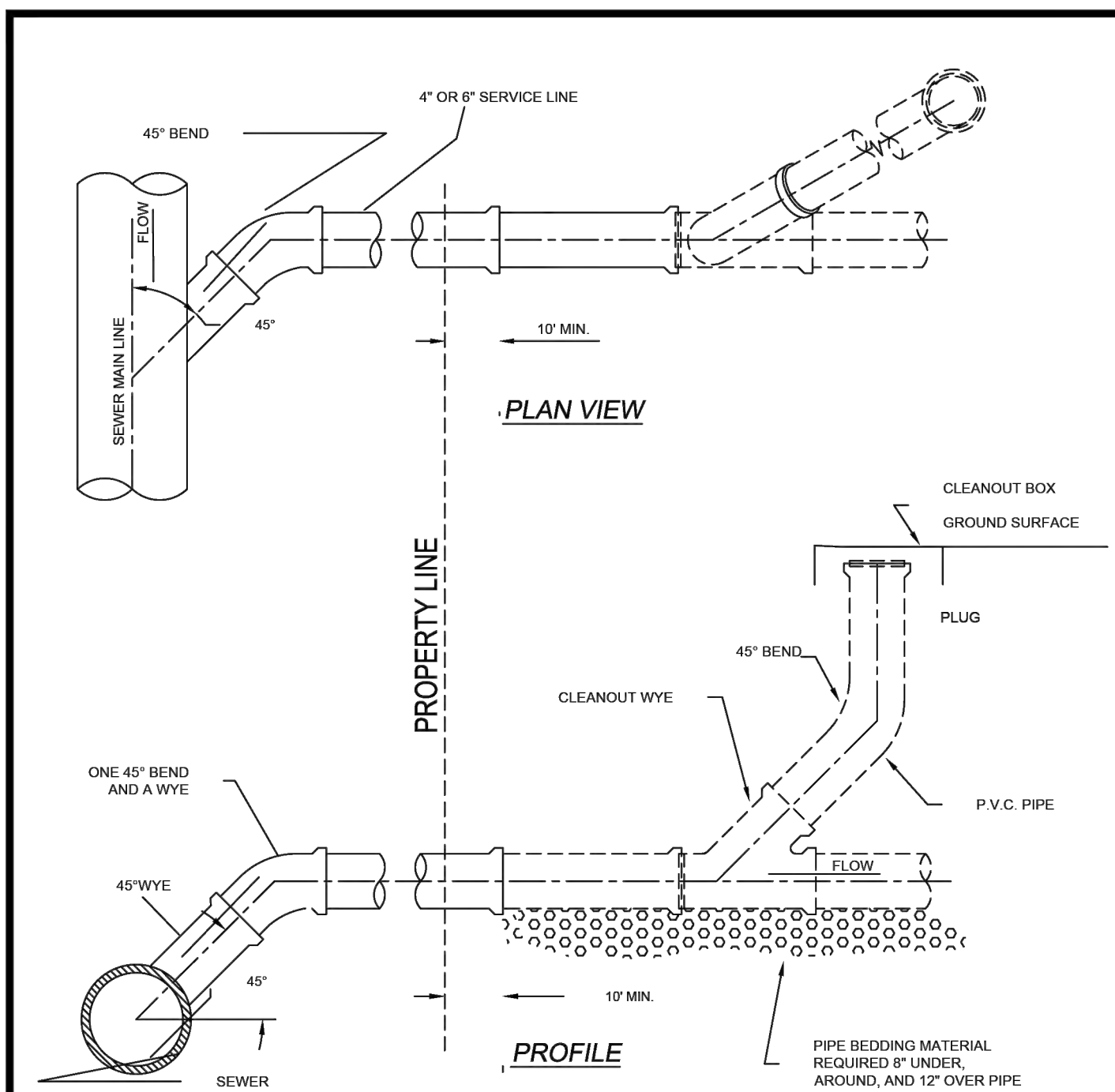
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NOTES:

- IF GRADE ALLOWS, INVERTS OF D1 & D3 SHALL MATCH THE 0.75 DEPTH POINT OF D2. OTHERWISE AS APPROVED BY DISTRICT.
- AFTER ALL GRADING AROUND MANHOLE HAS BEEN COMPLETED AND FINAL SURFACING IS IN PLACE, REMOVE DEBRIS AND TEMPORARY PLUGS OR PLYWOOD FROM INSIDE OF MANHOLES. SET MANHOLE FRAME AND COVER TO 18" BELOW FINISH GRADE AFTER FINAL STREET GRADING.
- IS COMPLETE.
- CONE AND WALL SECTIONS TO CONFORM TO ASTM C-478.
- PLUG OUTLET OF DOWNSTREAM MANHOLE UNTIL CONSTRUCTION IS COMPLETE.

NO SCALE



NOTES:

- ALL SERVICES SHALL BE 4" DIAMETER MINIMUM, UNLESS DIRECTED OTHERWISE AND SHALL BE EXTENDED FROM MAIN LINES TO 10' INSIDE OF PROPERTY LINES.
- MINIMUM SLOPE: 1/4" PER FOOT (2%) OR WHERE APPROVED BY THE DISTRICT 1/8" PER FOOT (1%).
- CLEAN-OUTS SHALL BE NO MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEANOUT.
- ALL 90° CONNECTIONS TO MAIN MUST BE CONSTRUCTED WITH ONE 45° BEND AND A WYE.
- 90° FITTINGS ARE NOT ALLOWED. 90° SHALL BE MADE WITH TWO 45° BENDS OR A COMBO WYE AND 45° BEND.
- DIRECT NOSE-ON CONNECTIONS ARE USED WHEN CONNECTING TO EXISTING MAIN LINE. ALL NOSE-ON WORK IS TO BE DONE BY DISTRICT PERSONNEL.

NO SCALE

		STANDARD SEWER TRENCH DETAIL	
DESIGN	DRAWN	CHECKED	APPROVED
DATE	FILE NAME	PROJECT NAME	SS-1A
AUG 2024			

		STANDARD MANHOLE DETAIL	
DESIGN	DRAWN	CHECKED	APPROVED
DATE	FILE NAME	PROJECT NAME	SS-2A
AUG 2024			

		SHALLOW MANHOLE DETAIL	
DESIGN	DRAWN	CHECKED	APPROVED
DATE	FILE NAME	PROJECT NAME	SS-2B
AUG 2024			

		STANDARD SEWER SERVICE CONNECTION & CLEAN-OUT	
DESIGN	DRAWN	CHECKED	APPROVED
DATE	FILE NAME	PROJECT NAME	SS-3A
AUG 2024			



RIPRAP & GRANULAR FILTER GRADATIONS



NOTE: VERTICAL EXAGGERATION OF 10

SCALE: NONE



NOTES:

1. PIPE ANCHOR WALLS (CLASS 3000 CONCRETE) SHALL BE CONSTRUCTED USING FORMS. REMOVE FORMS PRIOR TO BACKFILLING TRENCH.
2. SEE TABLE "A" FOR SPACING OF ANCHORS VERSUS PIPE SLOPES

② PIPE ANCHOR DETAIL

SCALE: NONE



THE DEGREE OF TOLERANCE ALLOWED FOR THE EFFECTIVE OPERATION OF A VENT-O-MAT AIR RELEASE AND VACUUM BREAK VALVE IS 3 DEGREES FROM VERTICAL

3 SEWAGE FORCE MAIN - VENTOMAT COMBINATION AIR VALVE
VAULT AND VENTS DETAILS SCALE: NONE

SCALE: NONE



NOTES:

- ALL SEWER LINES TO BE INSTANT IN PUBLIC RIGHT-OF-WAY OR RECORDED SEWER EASEMENT UNLESS OTHERWISE APPROVED BY SOUTH VALLEY SEWER DISTRICT
2. THE DISTRICT RECOMMENDS CONTRACTOR MEET ALL OF THE REQUIREMENTS ESTABLISHED FOR SAFE TRENCHING. (SEE OSHA AND UDD REQUIREMENTS, LATEST EDITIONS)
3. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BEFORE LAYING PIPE WITHIN 5' OF SAID UTILITIES WHICH MAY BE EXPOSED, DAMAGED OR CROSSED AS SHOWN ON THE DRAWINGS OR AS "BLUE STAKED". THE CONTRACTOR WILL MAKE ARRANGEMENTS WITH THE UTILITIES COMPANY TO MOVE OR PROTECT ANY UTILITY IF NECESSARY ON "OUTLINE" PORTION FROM THE DISTRICT ENGINEER TO MODIFY GRADE OF PIPELINE IN ORDER TO GO AROUND UTILITIES.
4. TESTING: ALL NEW SANITARY SEWERS TO BE "TELEVISIONED" AND NECESSARY REPAIRS MADE BEFORE ACCEPTANCE. ALL LINES SHALL BE TESTED TO A MINIMUM OF 10' OF COVER. ALL LINES SHALL BE TESTED TO A MINIMUM OF 10' OF COVER. ALL LINES SHALL BE TESTED FROM THE VIDEO UNLESS SPECIFIED OTHERWISE. ALL SEWER LINES SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS FOR ASTM F1417-96 AND UPPHIA UNB-8.6.
5. ASPHALT RESTORATION SHALL MATCH EXISTING TO A MAXIMUM OF 6" AND SHALL INCLUDE A 6" UNTREATED BASE COURSE AND 12" GRANULAR BROWER COURSE AS PER UDD SPECIFICATIONS.

NO SCALE



SECTION

NOTES:

1. IF GRADE ALLOWS, INVERTS OF D1 AND D3 SHALL MATCH THE 0.75 DEPTH POINT OF D2 OTHERWISE AS APPROVED BY DISTRICT.
2. AFTER THE FRAME AND GRADE HAS BEEN COMPLETED AND FINAL SURFACING IS IN PLACE, REMOVE DEBRIS AND TEMPORARY PLUGS OR PLYWOOD FROM INSIDE OF MANHOLES. SET MANHOLE FRAME AND COVER TO 18" BELOW FINISH GRADE AFTER FINAL STREET GRADING IS COMPLETE.
3. CONE AND WALL SECTIONS TO CONFORM TO ASTM C-478
4. PLUG OUTLET OF DOWNSTREAM MANHOLE UNTIL CONSTRUCTION IS COMPLETE.

NO SCALE



SECTION

NOTES:

1. IF GRADE ALLOWS, INVERTS OF D1 & D3 SHALL MATCH THE 0.75 DEPTH POINT OF D2. OTHERWISE AS APPROVED BY DISTRICT.
2. AFTER ALL GRADING AROUND MANHOLE HAS BEEN COMPLETED AND FINAL SURFACING IS IN PLACE, REMOVE DEBRIS AND TEMPORARY PLUGS OR PLYWOOD FROM INSIDE OF MANHOLES. SET MANHOLE FRAME AND COVER TO 1/8" BELOW FINISH GRADE AFTER FINAL STREET GRAD IS COMPLETE.
3. COME AND WALL SECTIONS TO CONFORM TO ASTM C-478
4. PLUG OUTLET OF DOWNSTREAM MANHOLE UNTIL CONSTRUCTION IS COMPLETE.

NO SCALE



PLAN VIEW

PROC

NOTES:

1. ALL SERVICES SHALL BE 4" DIAMETER MINIMUM, UNLESS DIRECTED OTHERWISE AND SHALL BE EXTENDED FROM MAIN LINES TO 15' INSIDE OF PROPERTY LINES.
2. MINIMUM SLOPE: 1/4" PER FOOT (2%) OR (WHERE APPROVED BY THE DISTRICT 1/8" PER FOOT)(1%).
3. CLEAN-OUTS SHALL BE NO MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM END OF THE CLEANOUT.
4. ALL 90° CONNECTIONS TO MAIN MUST BE CONSTRUCTED WITH ONE 45° BEND AND A COMBO WYE.
5. 90° FITTINGS ARE NOT ALLOWED. 90° SHALL BE MADE WITH TWO 45° BENDS OR A COMBO WYE AND 45° BEND.
6. DIRECT NOSE-ON CONNECTIONS ARE USED WHEN CONNECTING TO EXISTING MAIN LINE. ALL NOSE-ON WORK IS TO BE DONE BY DISTRICT PERSONNEL.

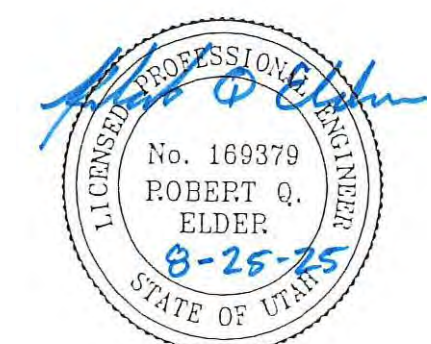
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CONTACT:
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15900 SOUTH 2800 EAST

DRAPER, UTAH



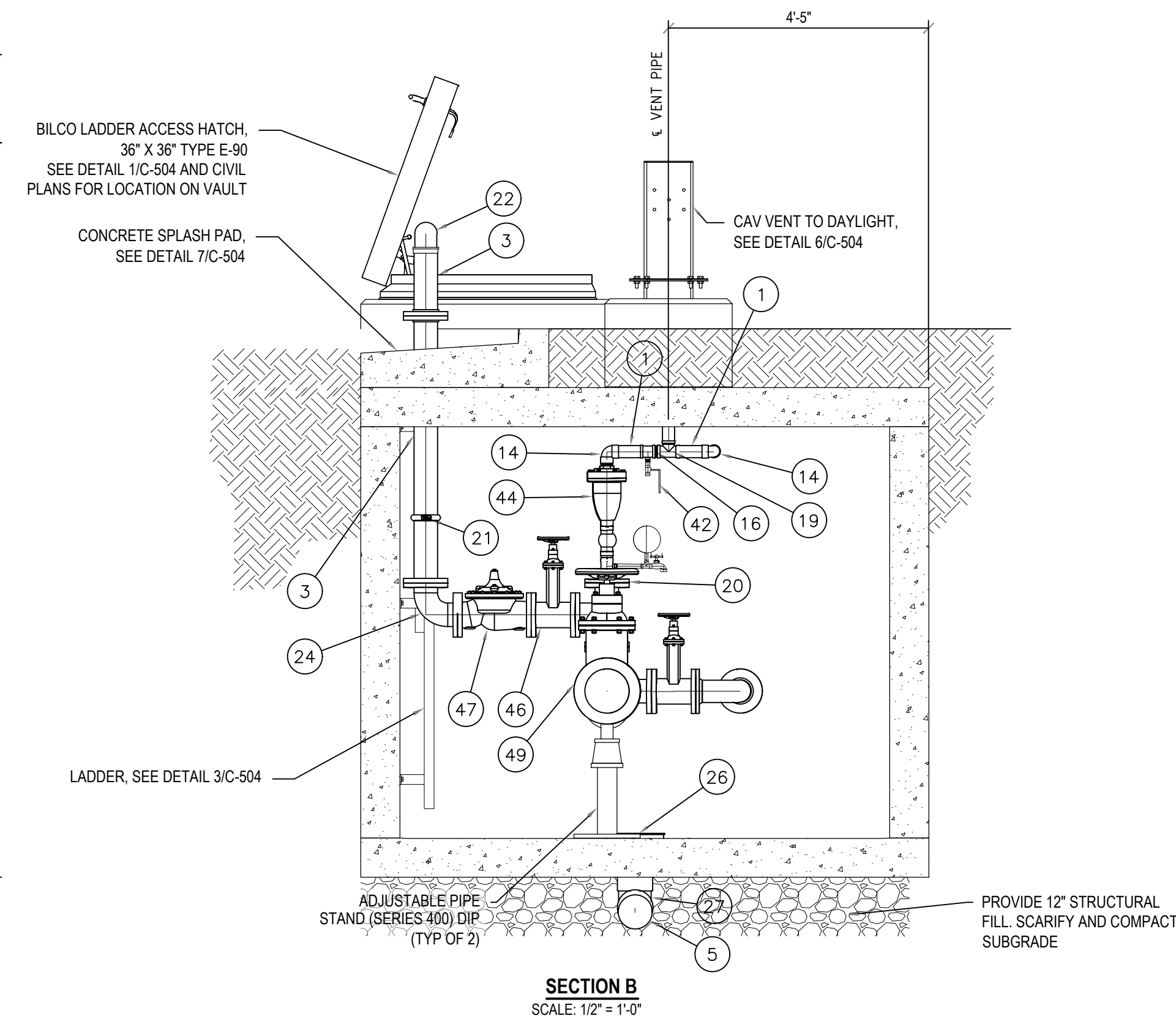
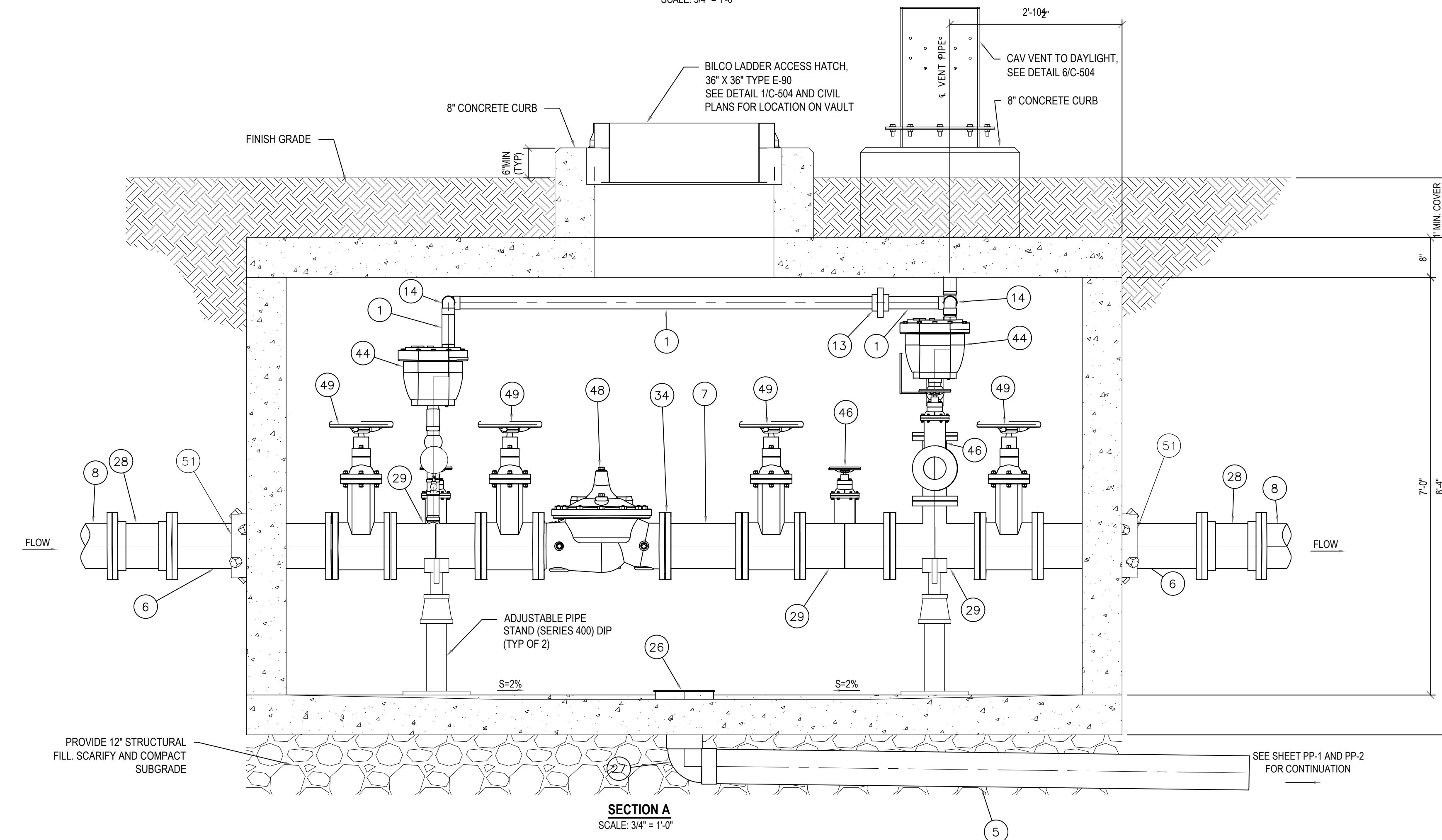
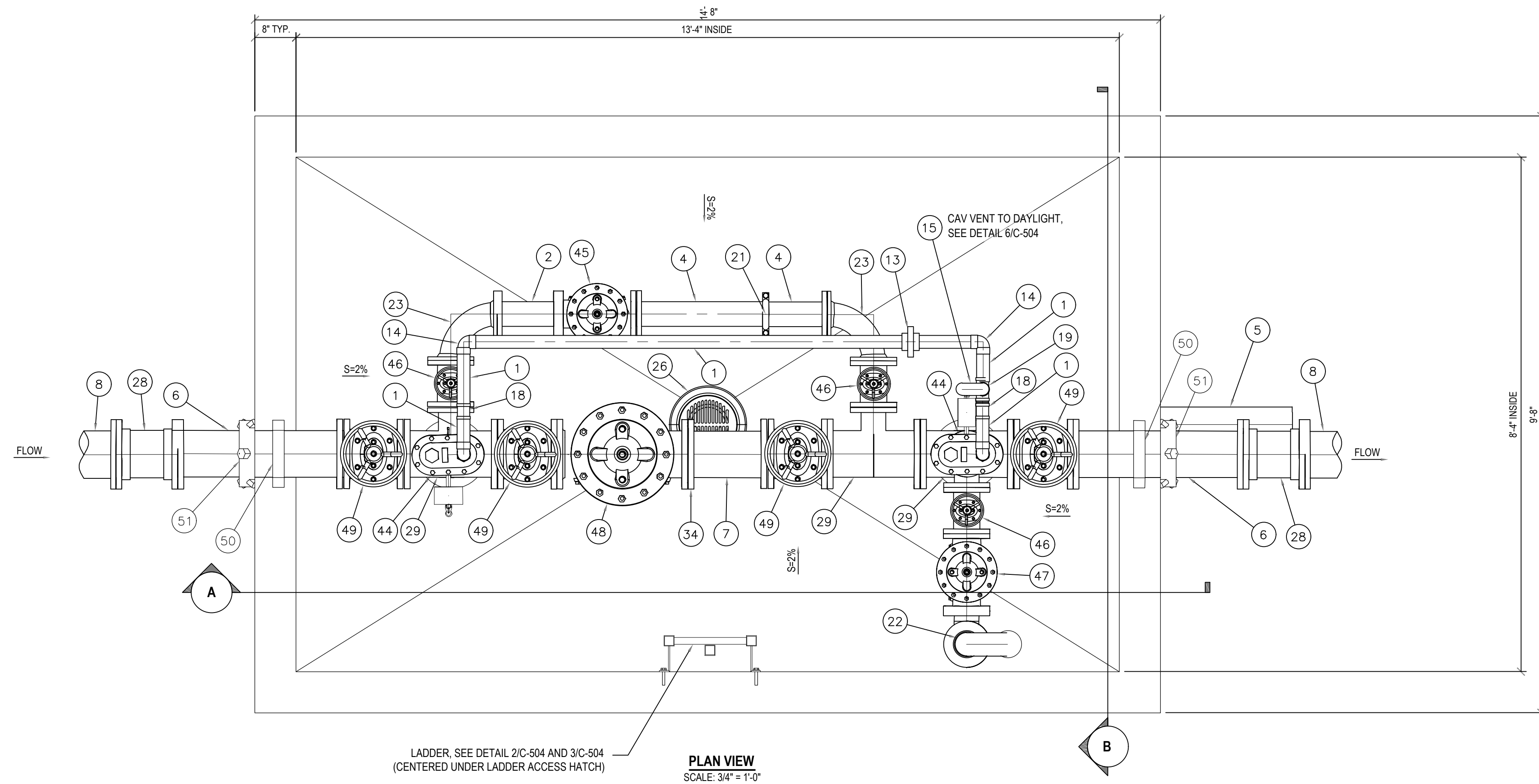
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J. GERA

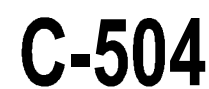
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R. ELDER

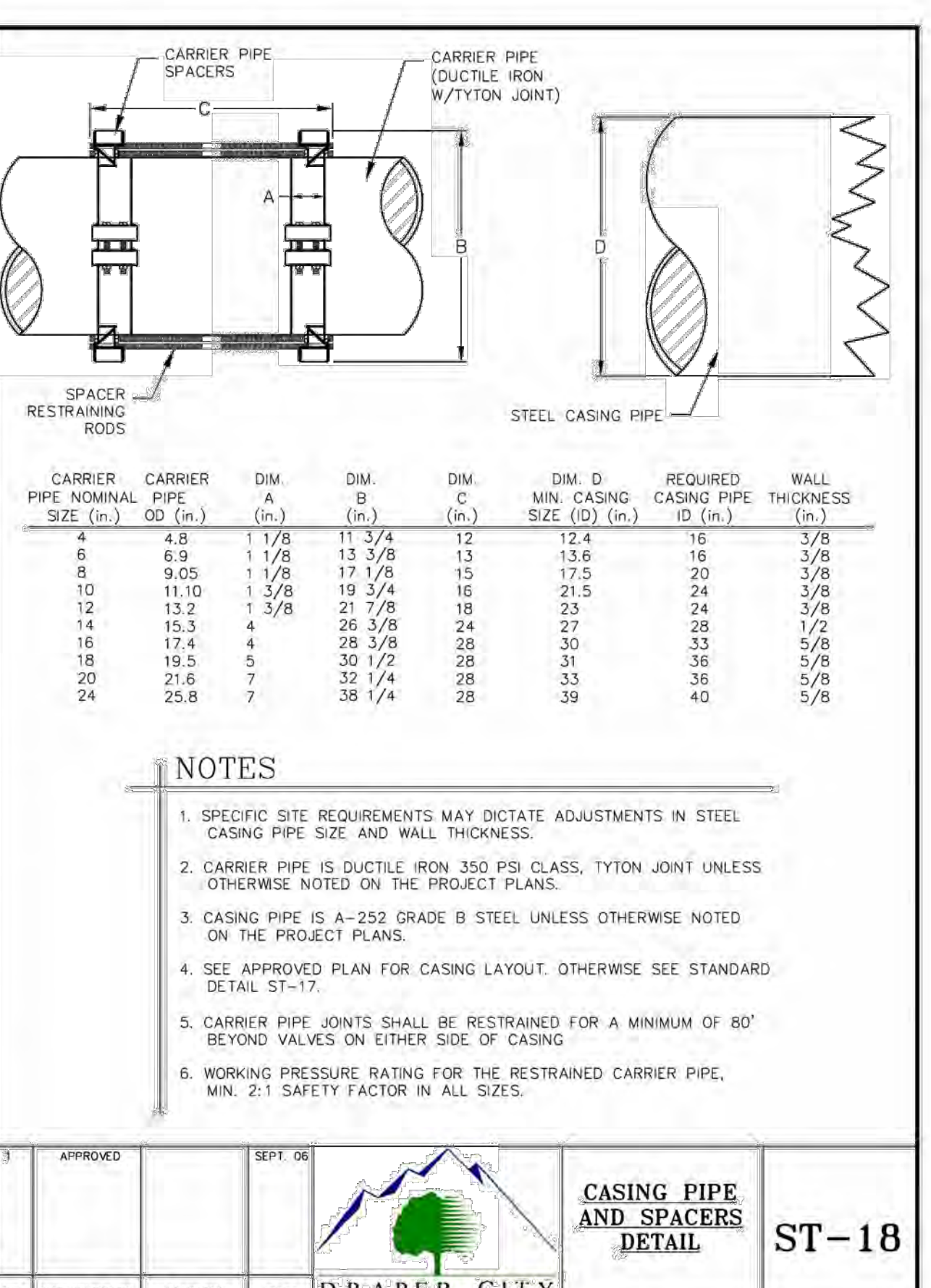
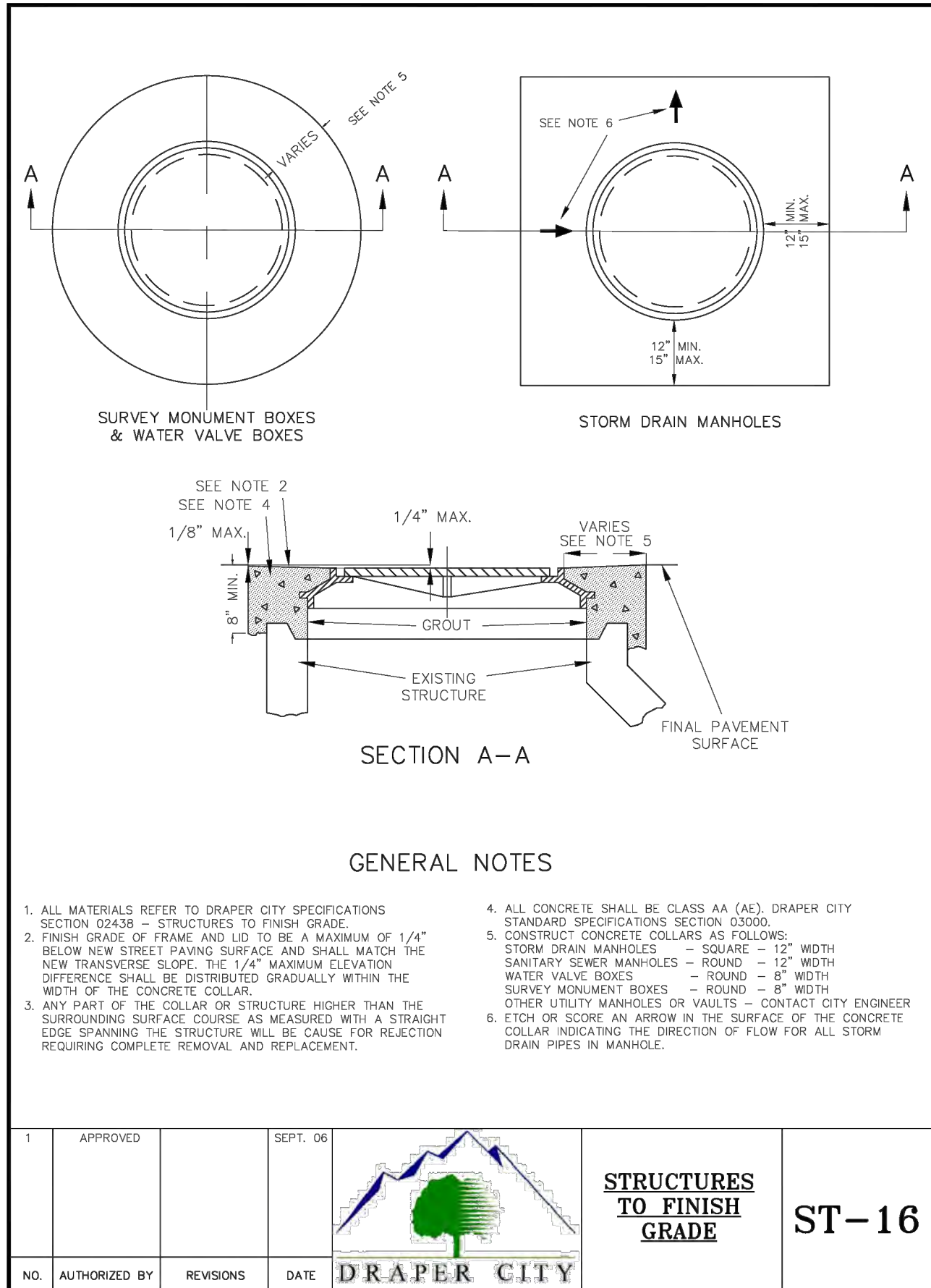
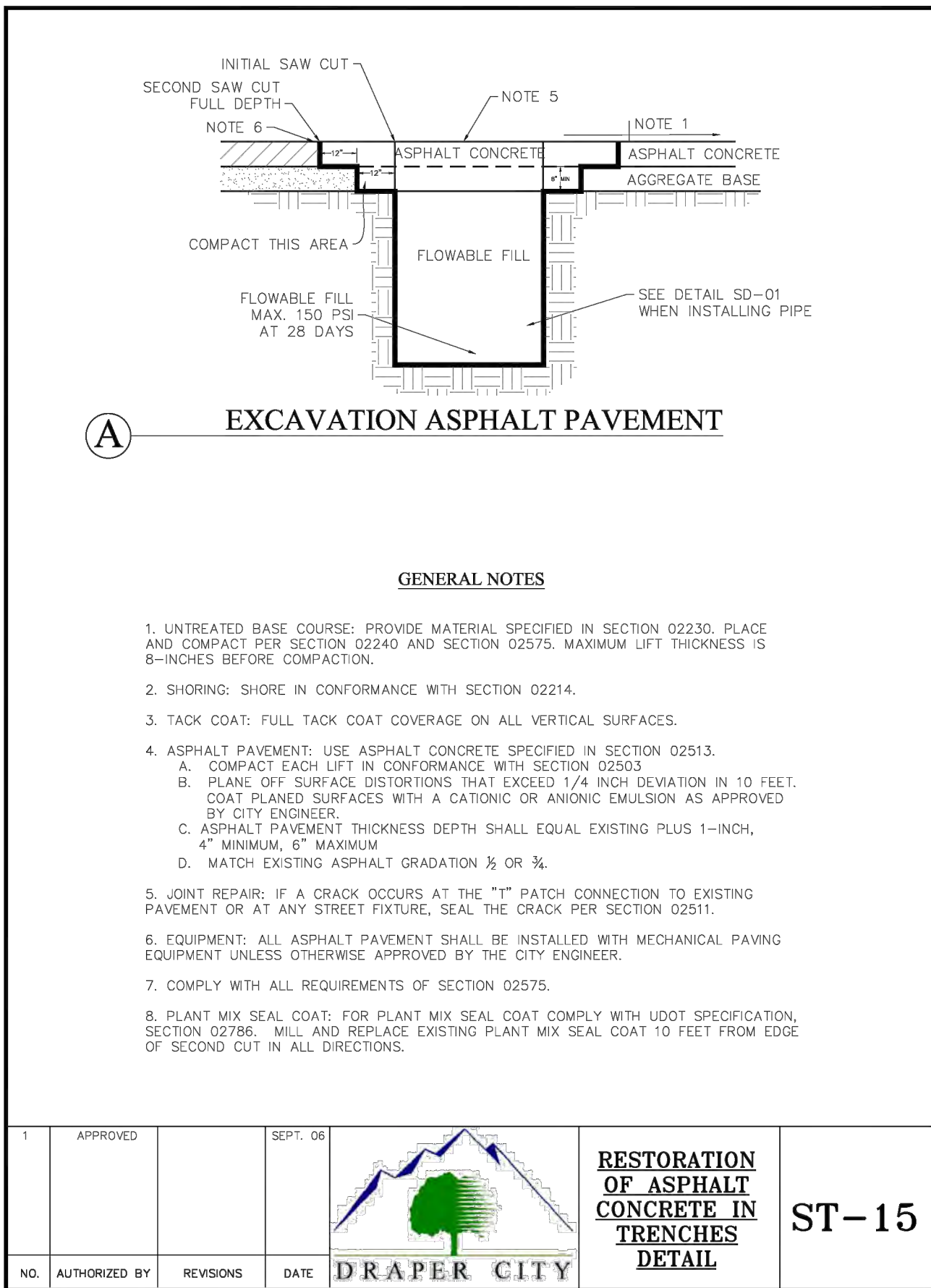
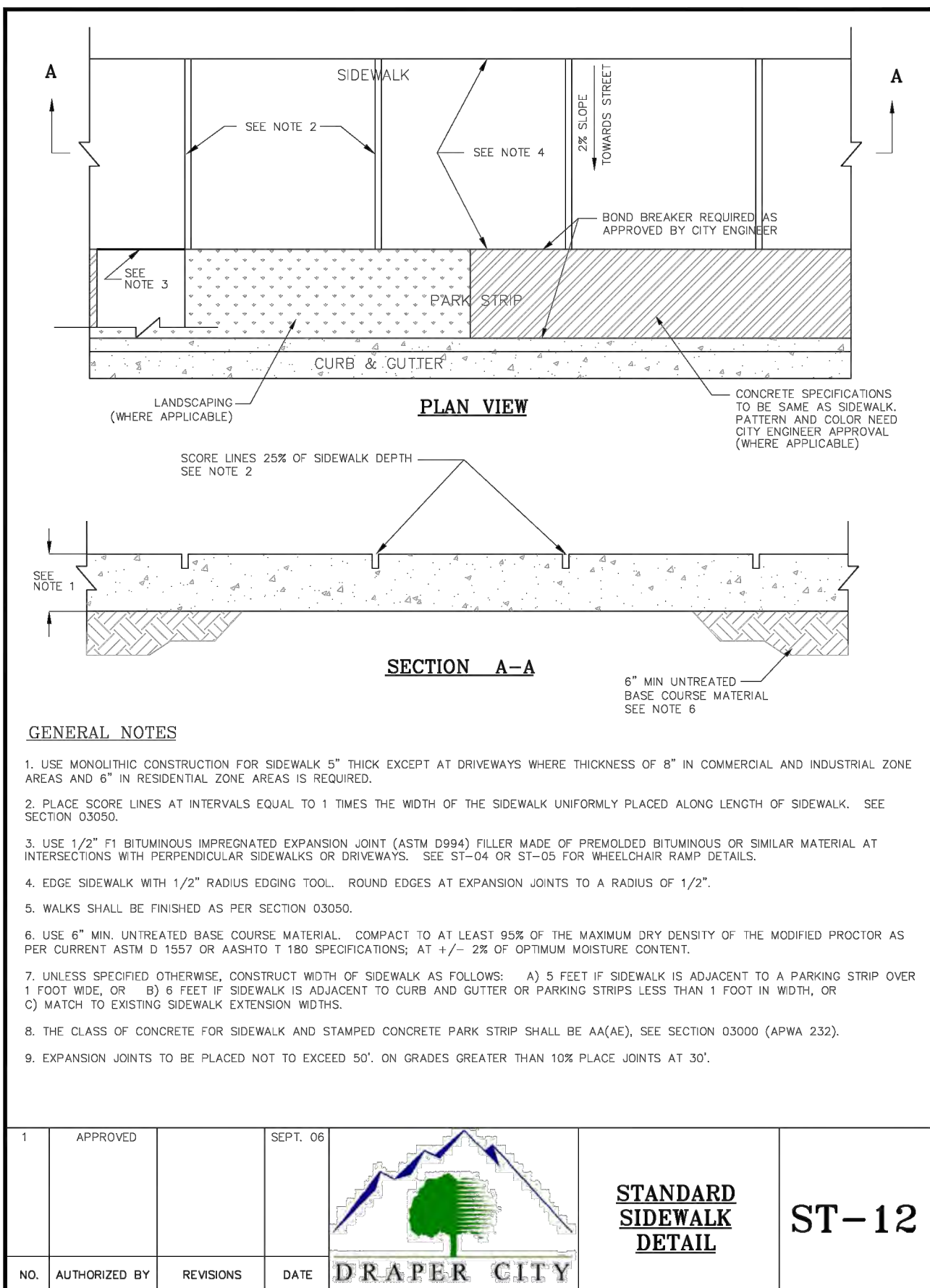
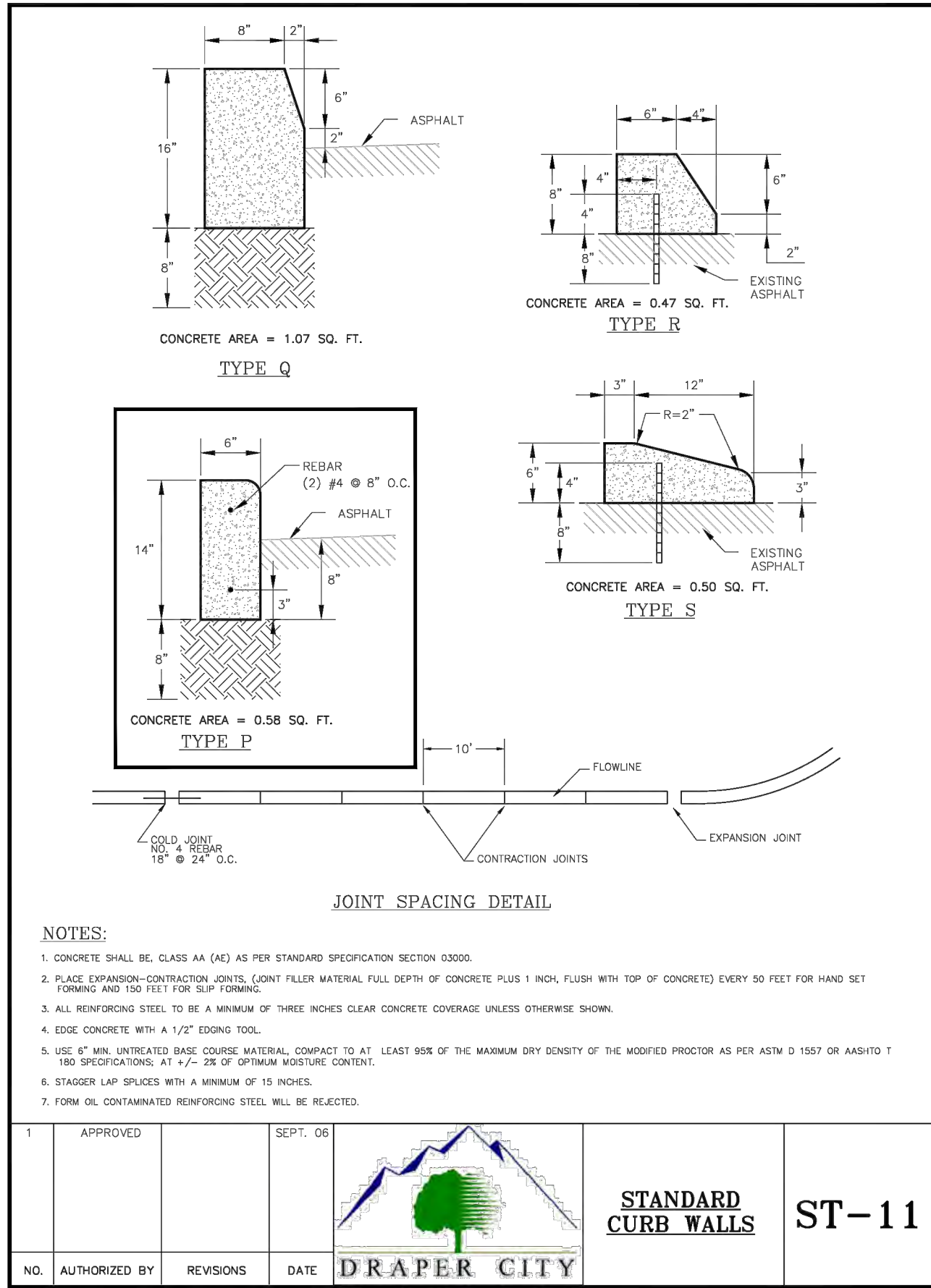
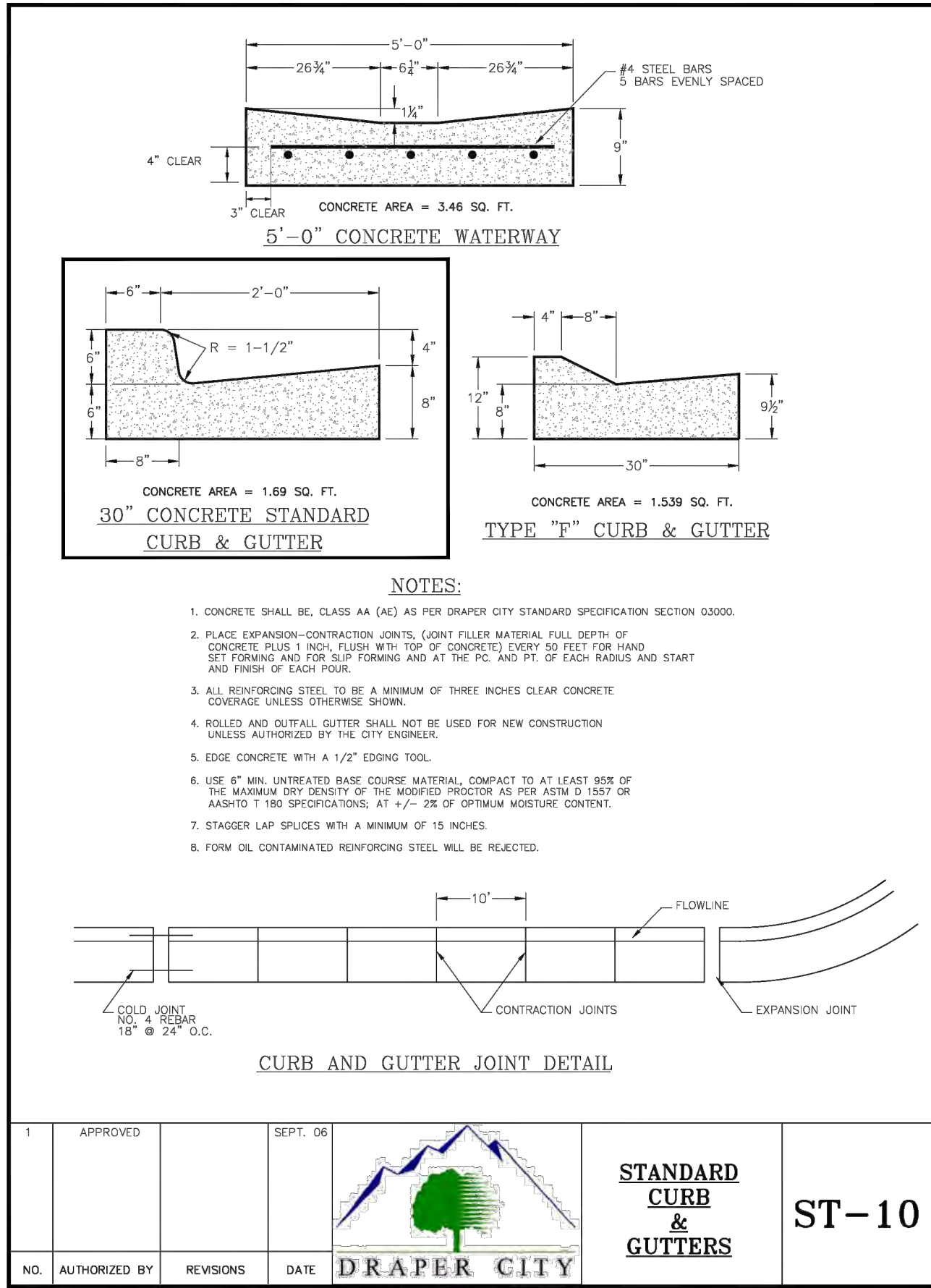
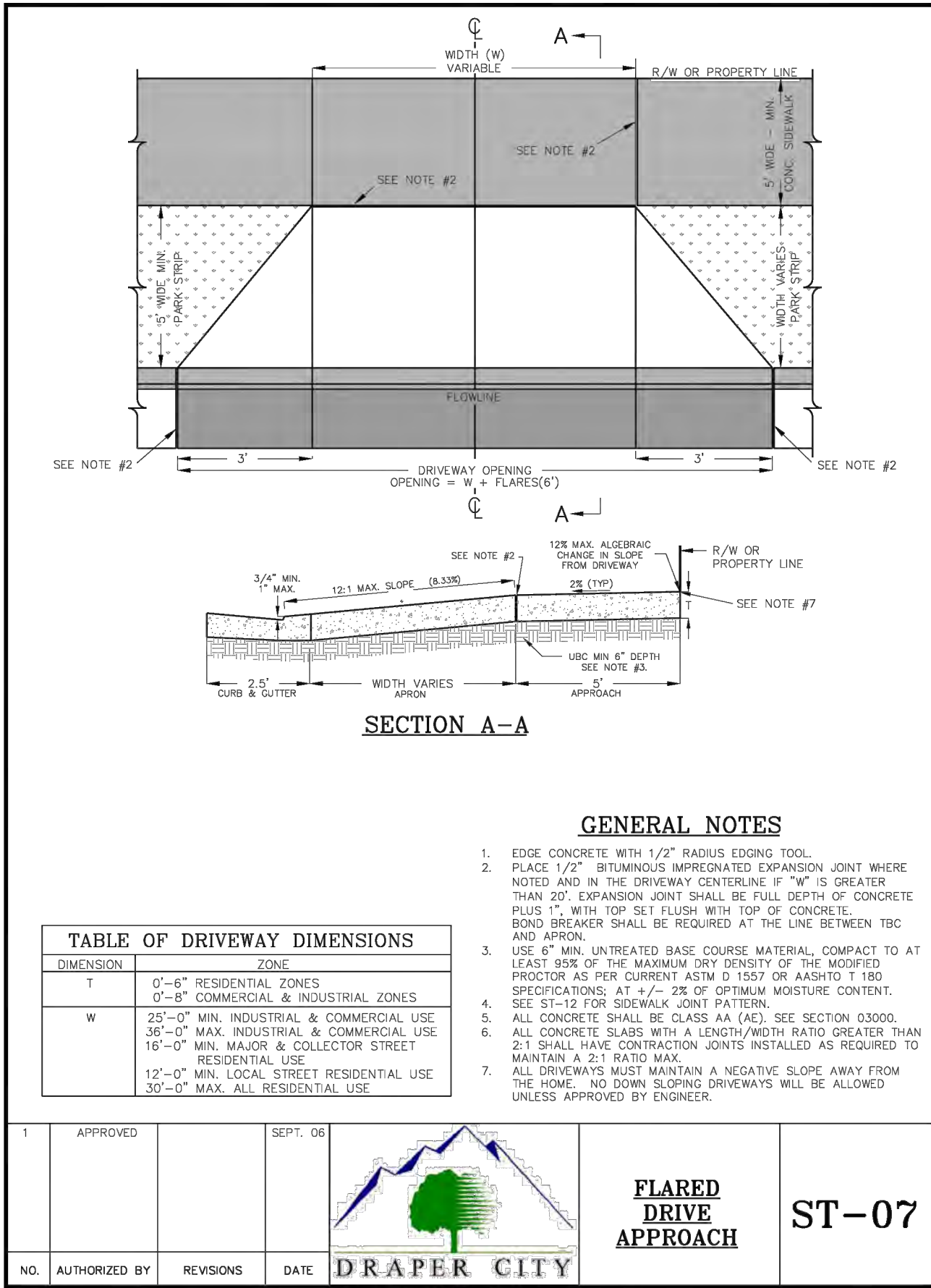
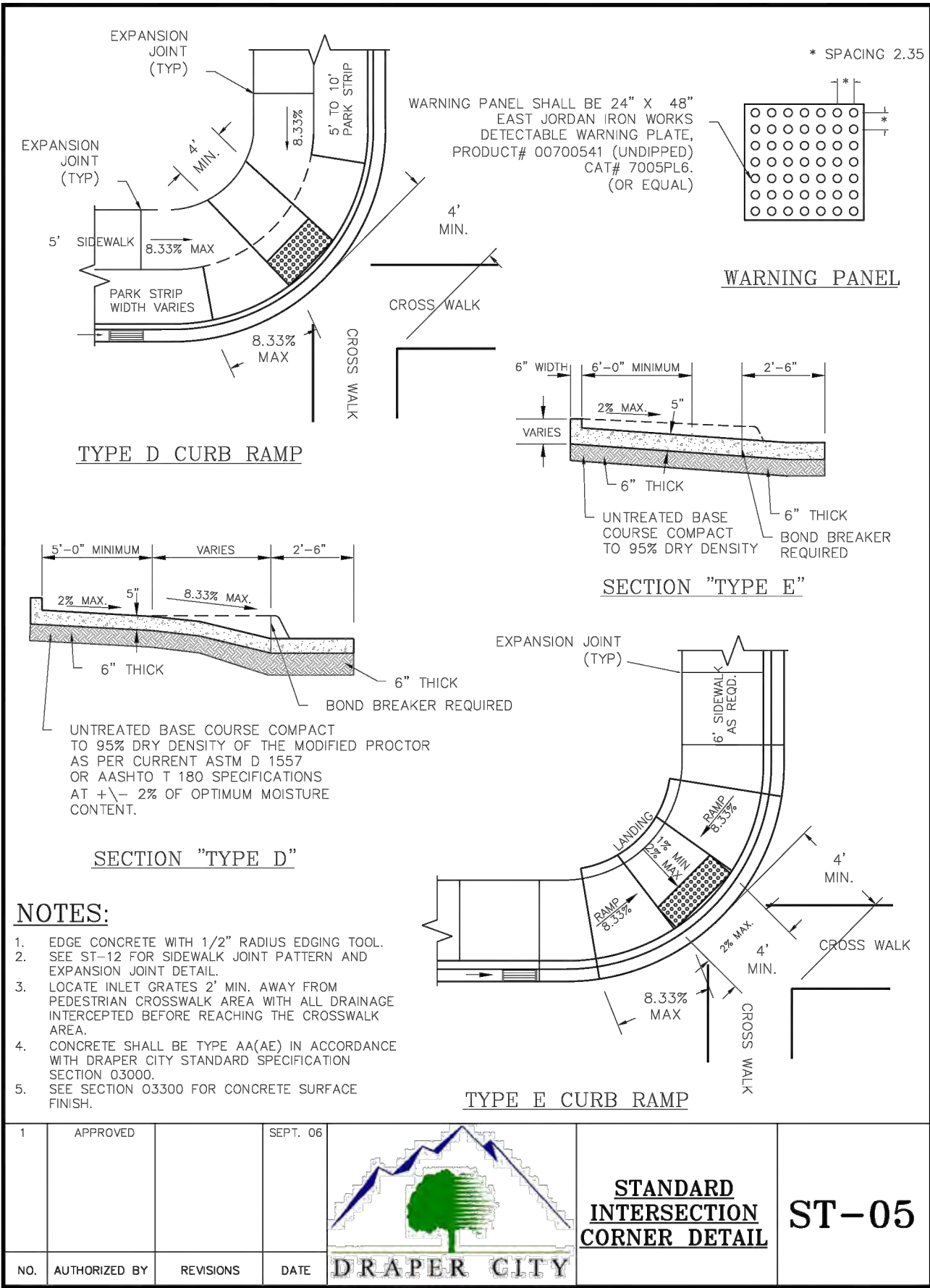
PROJECT MANAGER
R. ELDER

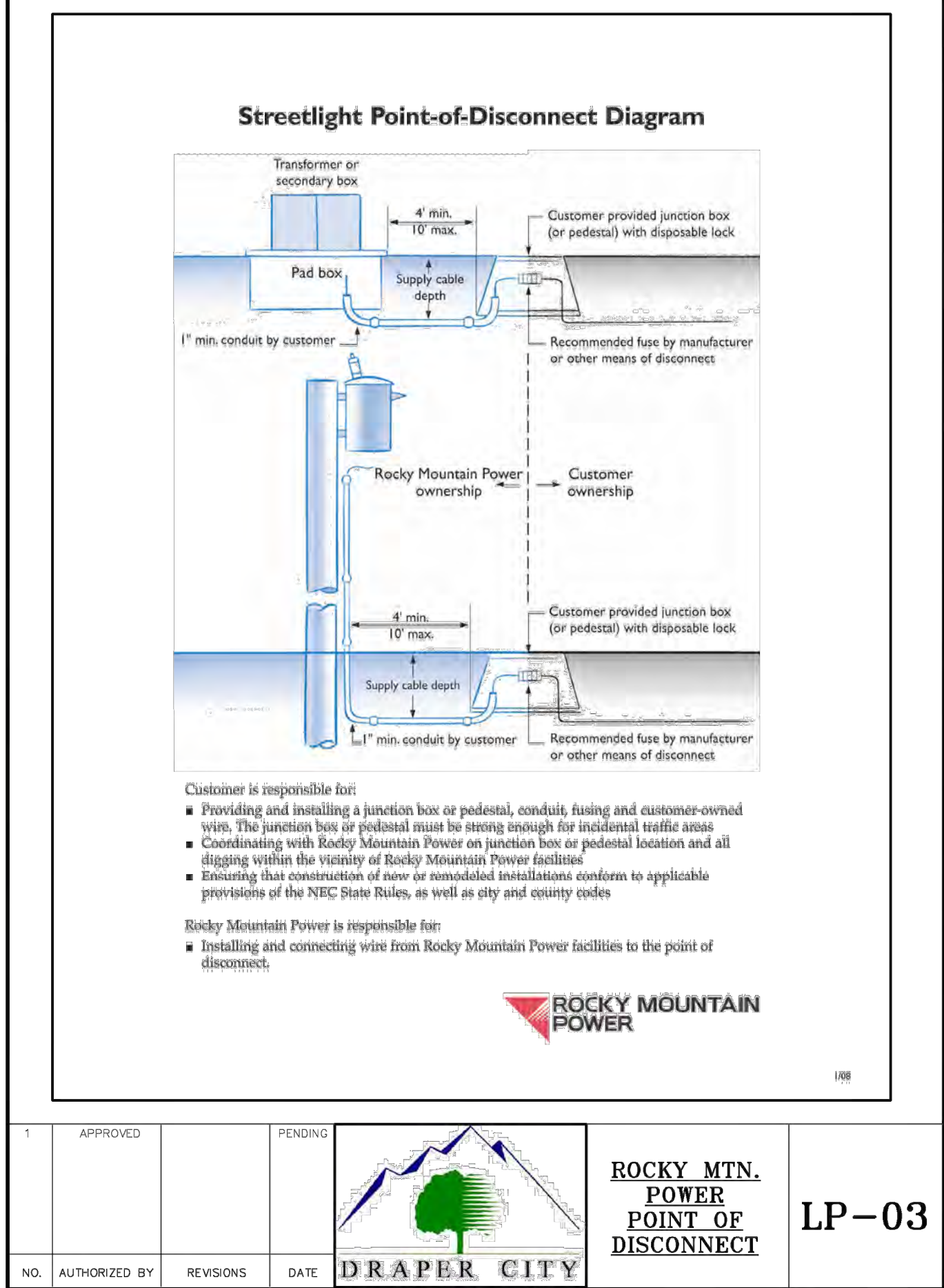
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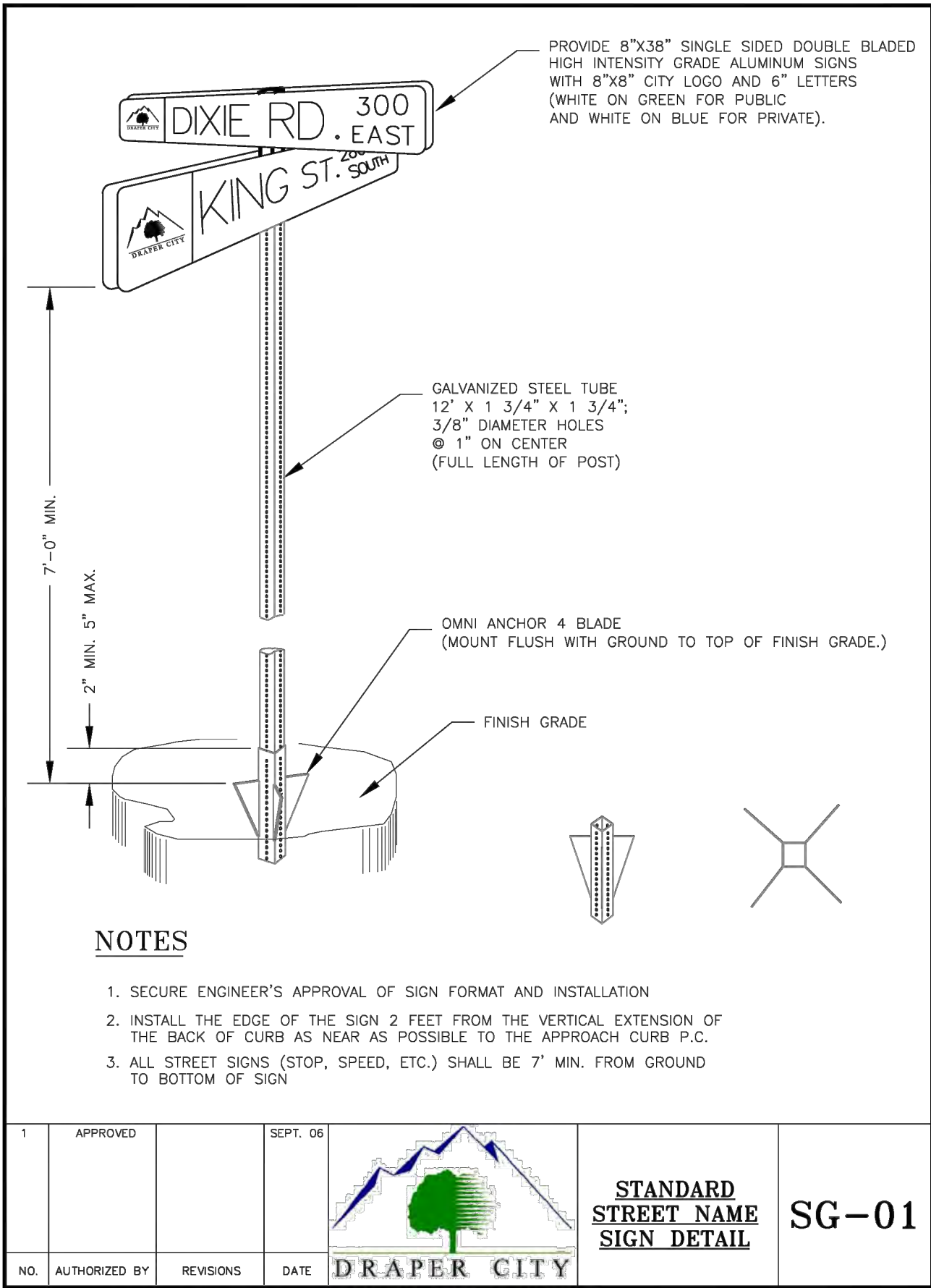
FITTING SCHEDULE					
ID	SIZE	DESCRIPTION	MAT'L	FITTING	REMARKS
1	2"	PIPE SPOOL	BRASS	THD X THD	
2	4"	PIPE SPOOL	DIP	FL X FL	
3	4"	PIPE SPOOL	DIP	FL X PE	
4	4"	PIPE SPOOL	DIP	FL X VIC	
5	6"	DRAIN PIPE	SDR-35 PVC	PO X PE	
6	8"	PIPE SPOOL	DIP	FL X PE	
7	8"	PIPE SPOOL	DIP	VIC X FL	
8	8"	PIPE	C900 PVC	PE X PE	
9	3/8"	PRESSURE GAUGE		THD	0-150 PSI
10	1/2"	NIPPLE, CLOSE TYPE	BRASS	TDHM	
11	1/2"	NIPPLE, LONG TYPE	BRASS	THDM	
12	1/2"x3/8"x1/2"	REDUCING TEE	BRASS	THD	
13	2"	UNION	BRASS	THD	
14	2"	ELL 90	BRASS	THD	
15	2"	RETURN 180 SR	BRASS	THDF	W/ #14 BRASS SCREEN
16	2"	NIPPLE, CLOSE TYPE	BRASS	TDHM	
17	2"	NIPPLE, CLOSE TYPE	BRASS	TDHM	
18	2"x1/2"	REDUCING TEE	BRASS	THD	
19	2"	TEE	BRASS	THD	
20	4"	COMPANION FLANGE	STEEL	FL	W/ 2" THREADED TAP
21	4"	VICTAULIC COUPLING STYLE 77	STEEL	VIC	
22	4"	RETURN 180 SR	DIP	FL X PE	
23	4"	ELBOW 90, LR	DIP	FL	
24	4"	ELBOW 90	DIP	FL	
25	4"	TEE	DIP	FL	
26	6"	ZURN Z-541 DRAIN	STEEL	THDF	
27	6"	ELBOW, PUSH-ON	SDR-35 PVC	PO X PO	
28	8"	LONG SLEEVE	DIP	MJ X MJ	
29	8"x4"	REDUCING TEE	DIP	FL	W/ 2" THREADED TAP
30	NOT USED				
31	8"x2"	THREADED TAP	DIP	THD	
34	8"	VICTAULIC FLANGE ADAPTER	DI	VIC X FL	
35	12"	VICTAULIC FLANGE ADAPTER	DI	VIC X FL	
40	1/2"	HOSE BIB	BRASS	THDM	
42	1/2"	BALL VALVE	BRASS	THD	
43	2"	BALL VALVE	BRASS	THD	
44	2"	COMB AIR/VAC VALVE ASSEMBLY	BRASS	THD	SEE DETAIL 5M-101
45	4"	PRESSURE REDUCING VALVE	CI	FL X FL	CLA-VAL MODEL 90-01, YBCSKC SS TRIM, SS TUBES AND FITTINGS 30-300 PSI PILOT
46	4"	GATE VALVE, WEDGE	DI	FL X FL	
47	4"	PRESSURE RELIEF VALVE	CI	FL X FL	CLA-VAL MODEL 50-01, YBCSKC SS TRIM, SS TUBES AND FITTINGS
48	8"	PRESSURE REDUCING VALVE	DIP	FL X FL	CLA-VAL MODEL 90-01, YBCSKC SS TRIM, SS TUBES AND FITTINGS 30-300 PSI PILOT
49	8"	GATE VALVE, WEDGE	DI	FL X FL	
50	8"	THRUST RING	STEEL		
51	8"	MEGALUG	STEEL		2 PIECE MEGALUG RETAINER GLAND



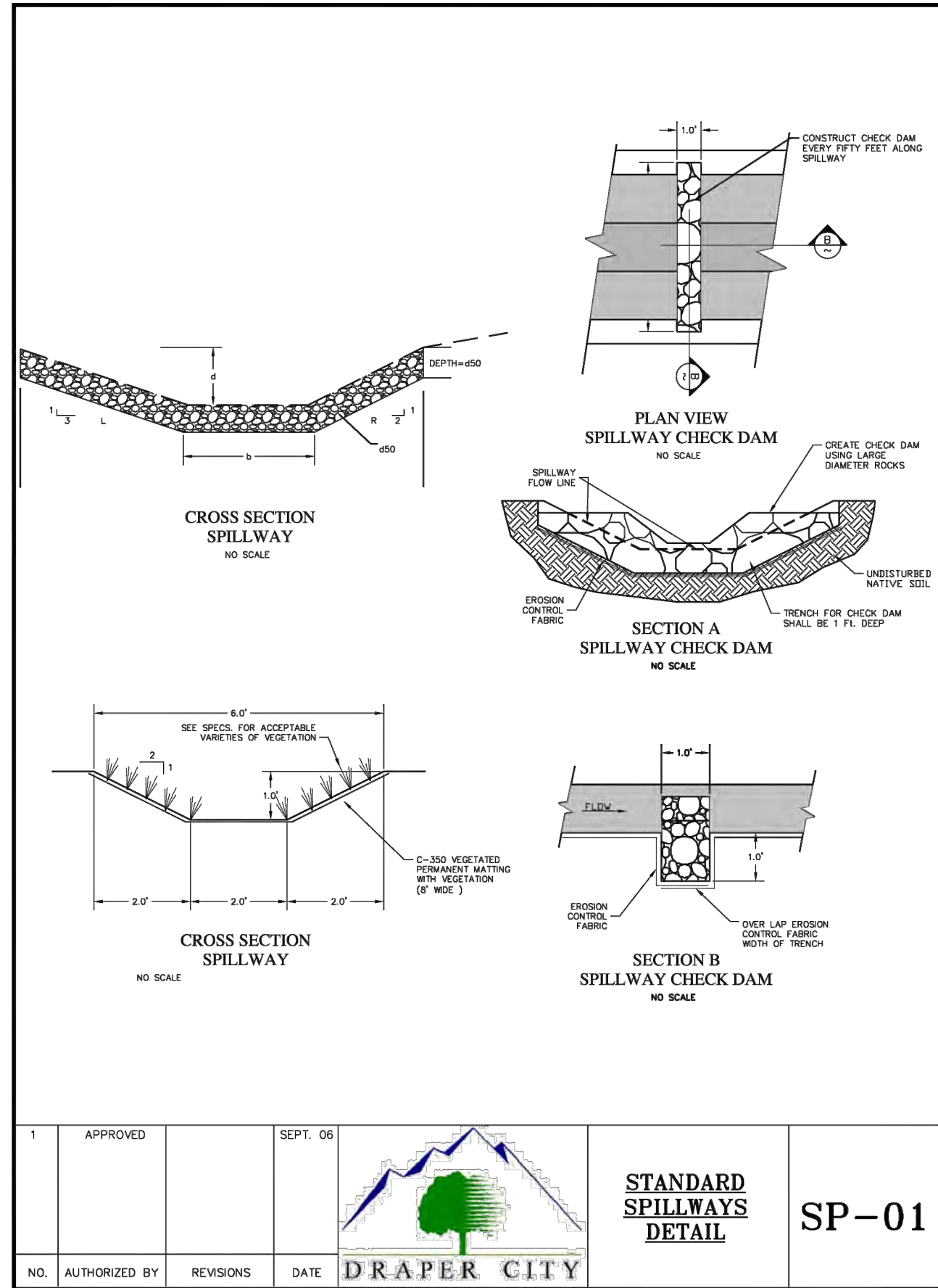




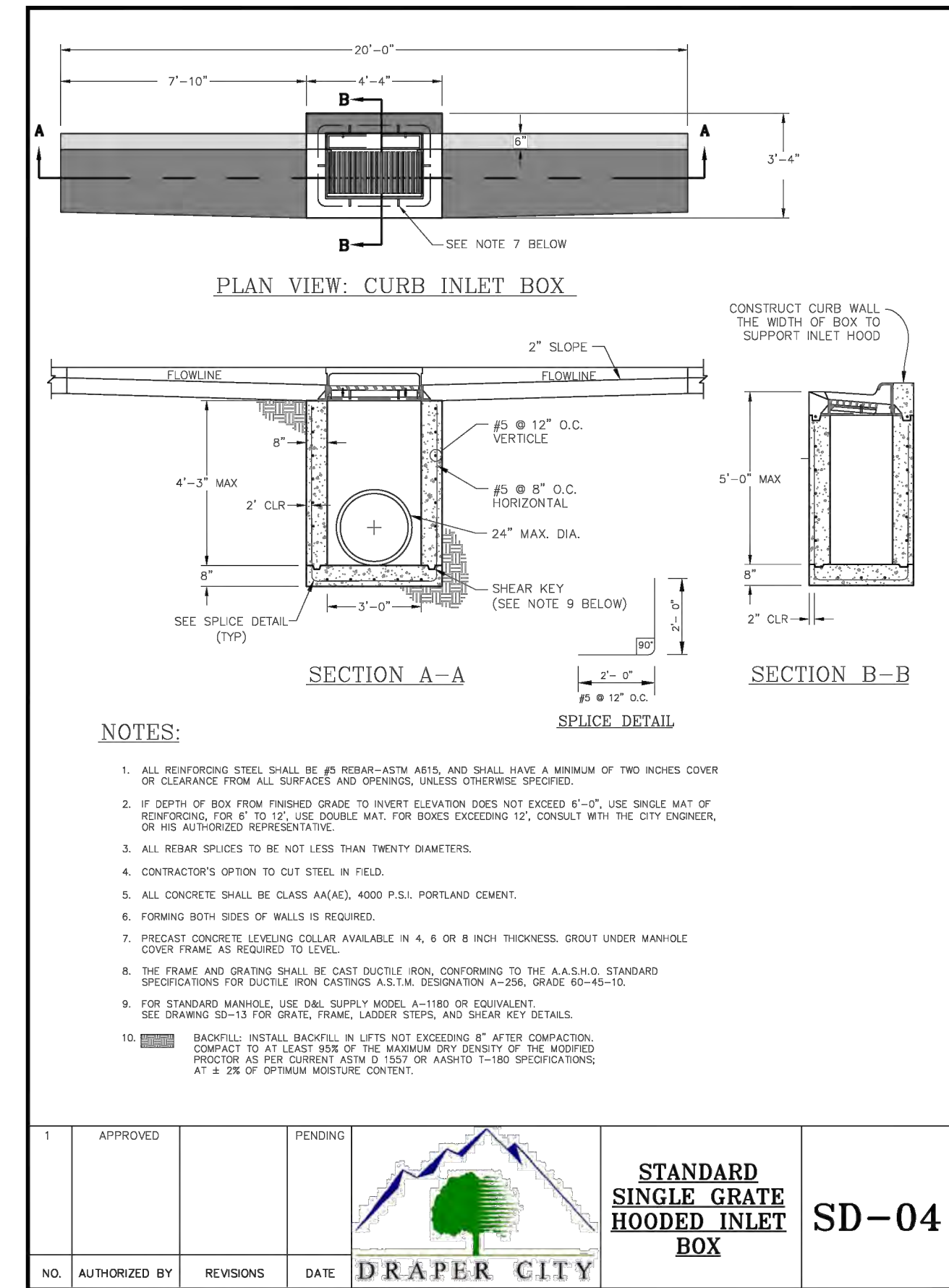
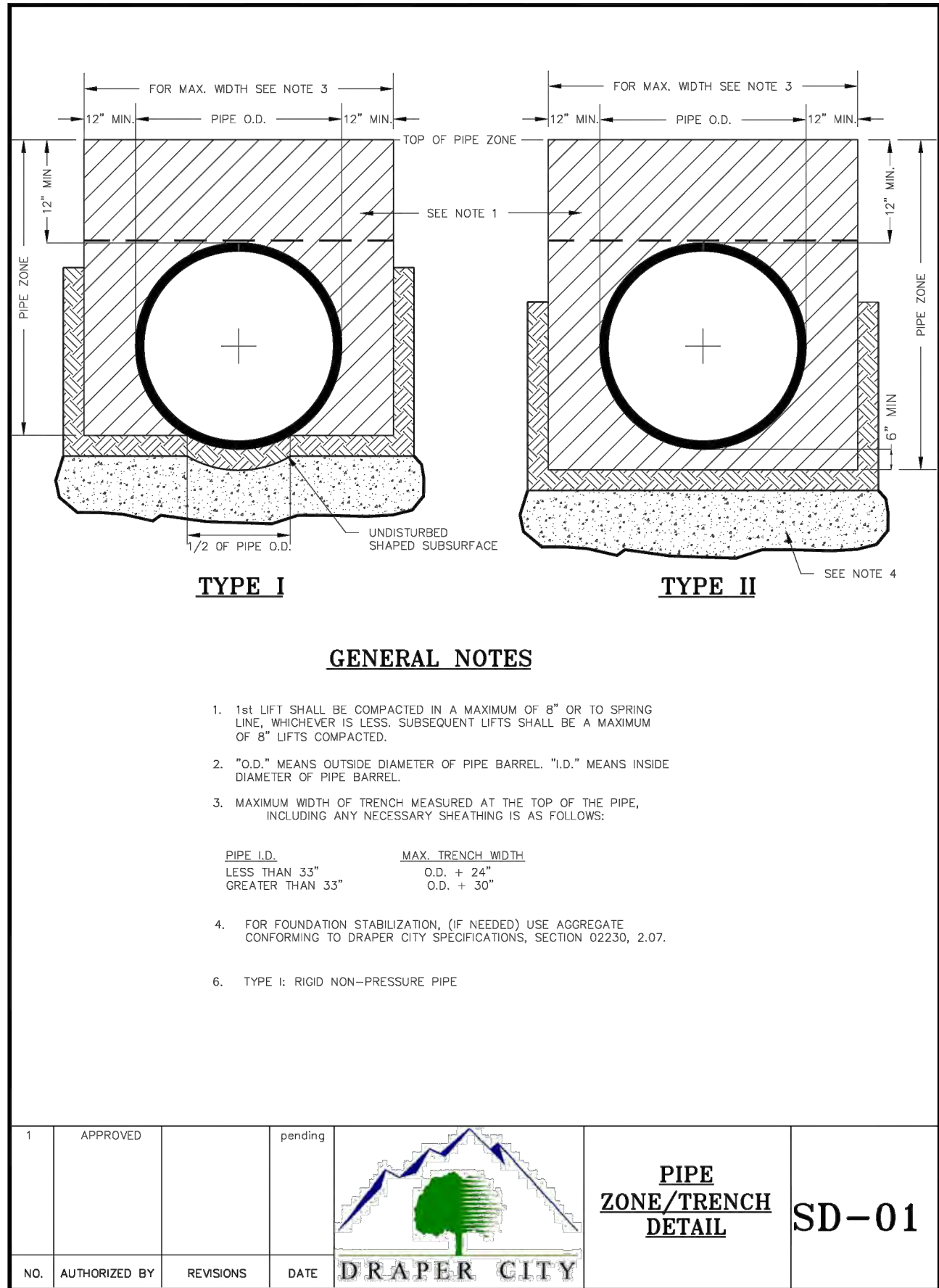
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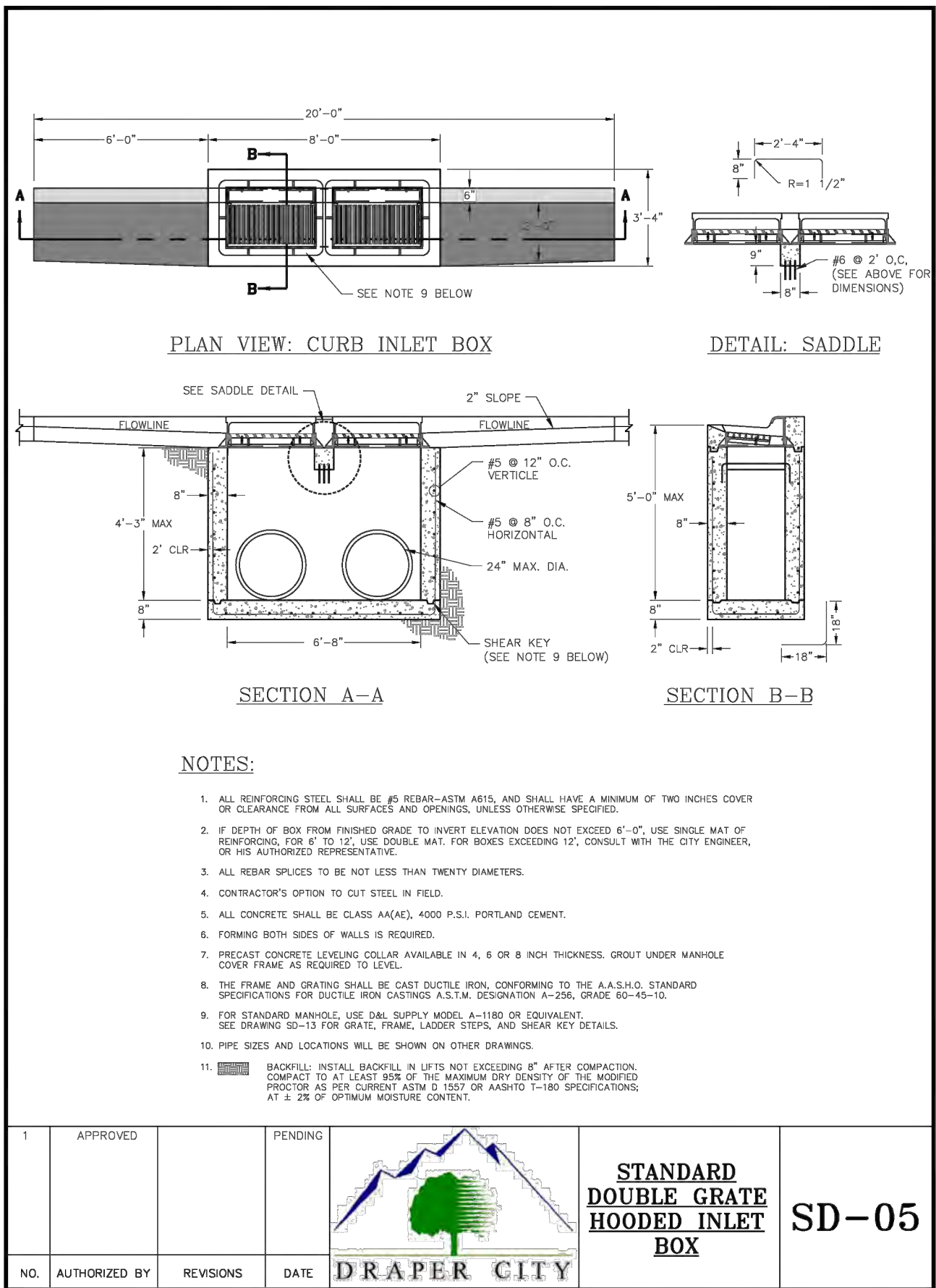
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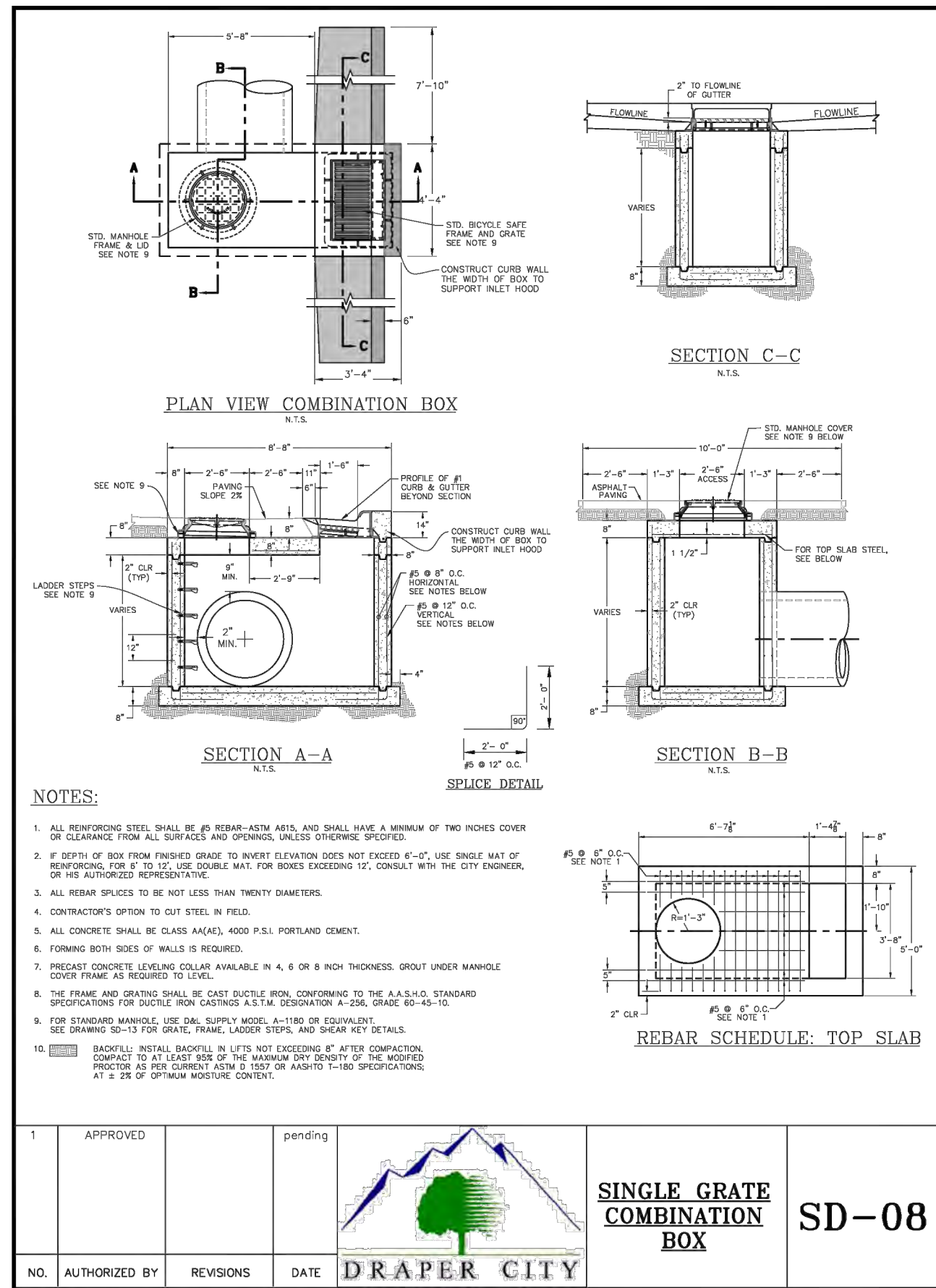
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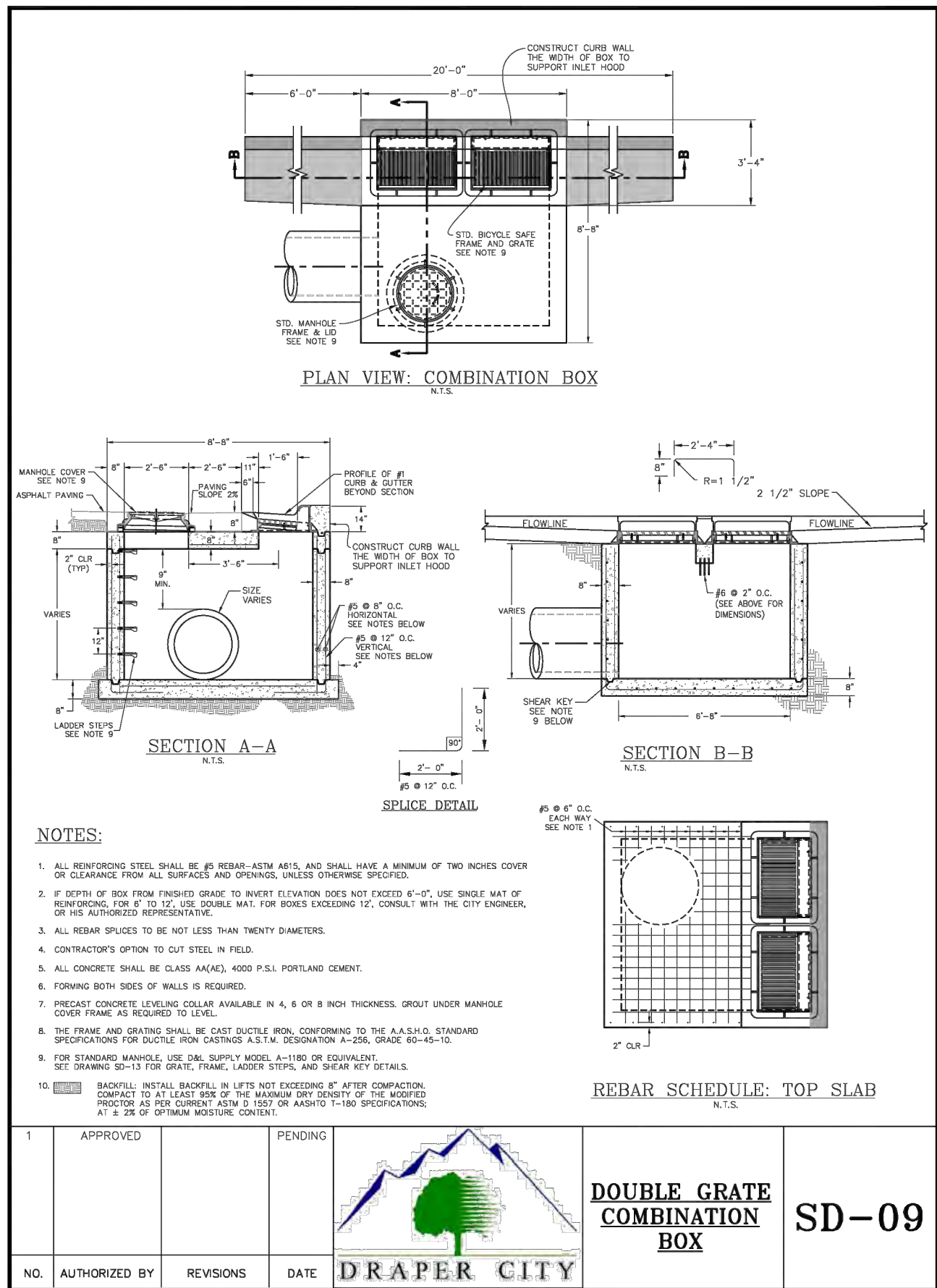
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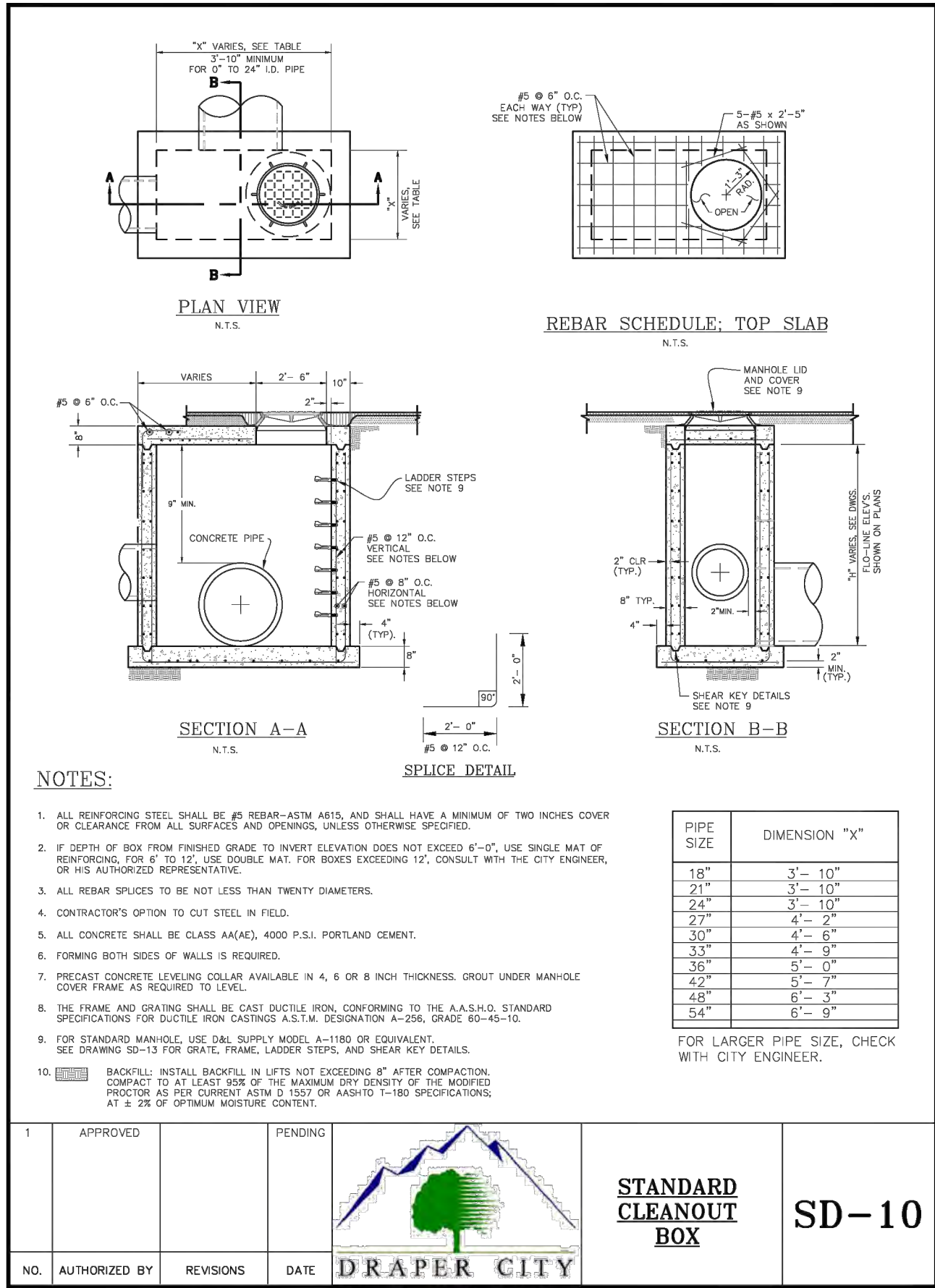
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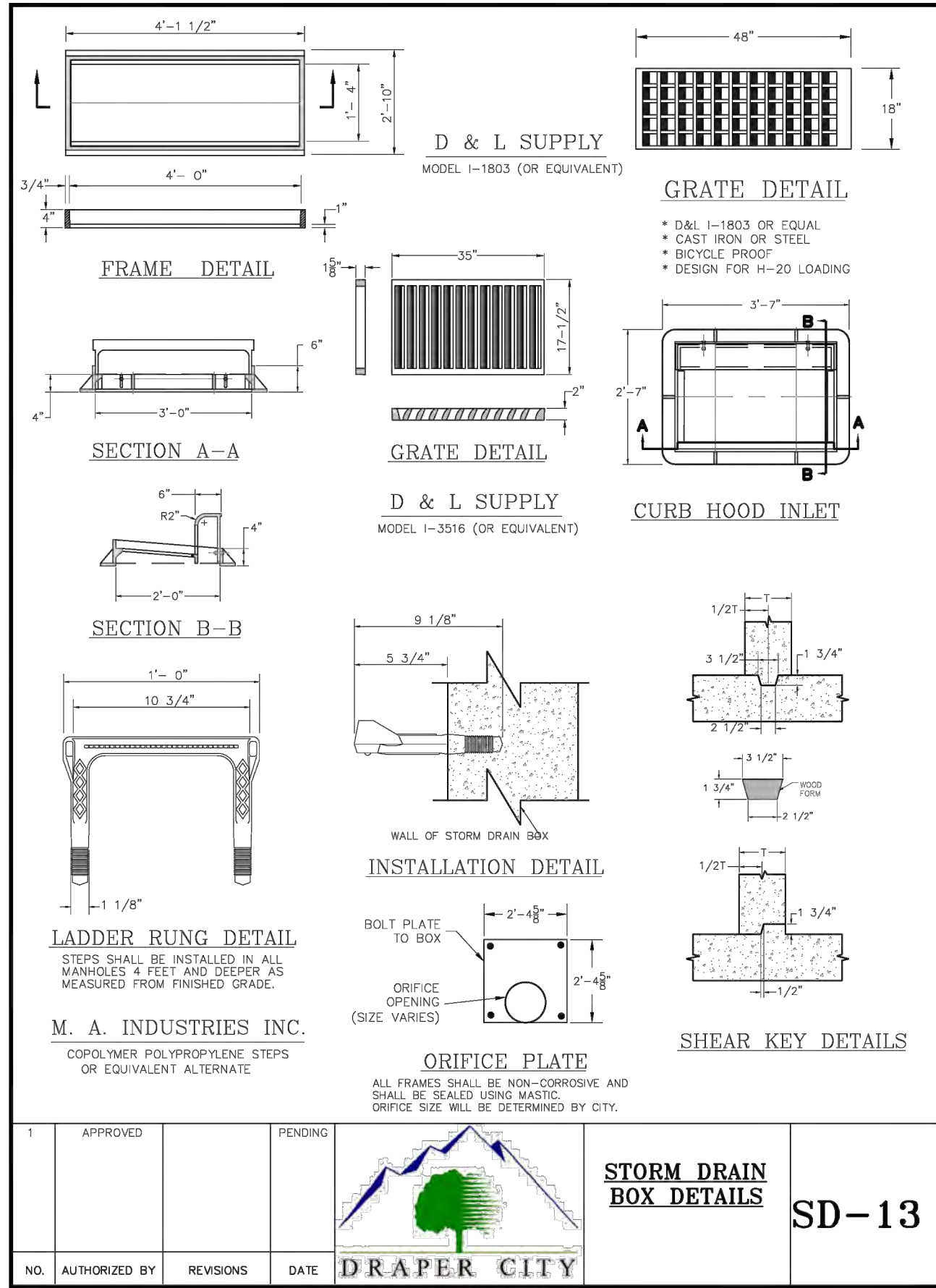
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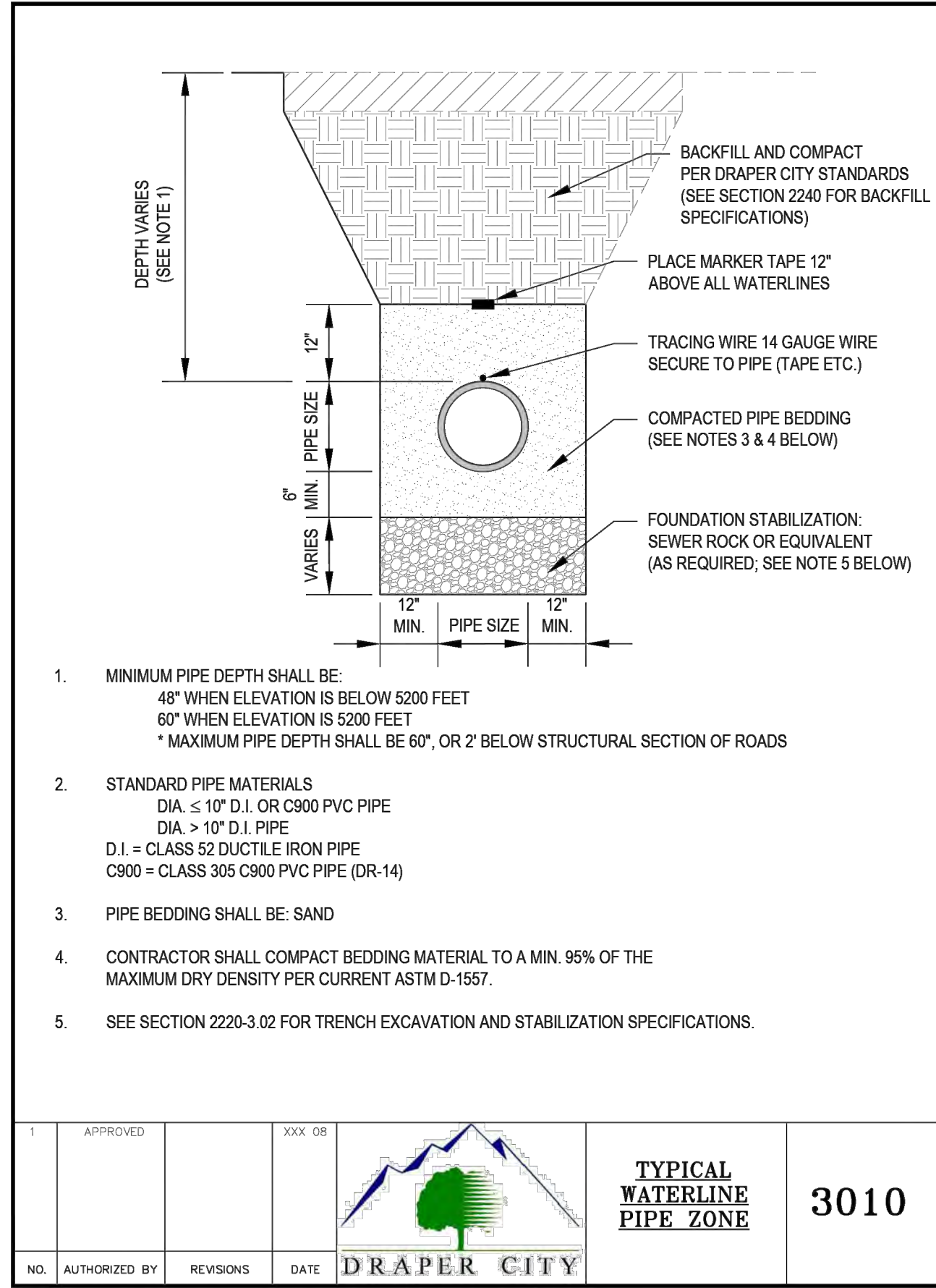
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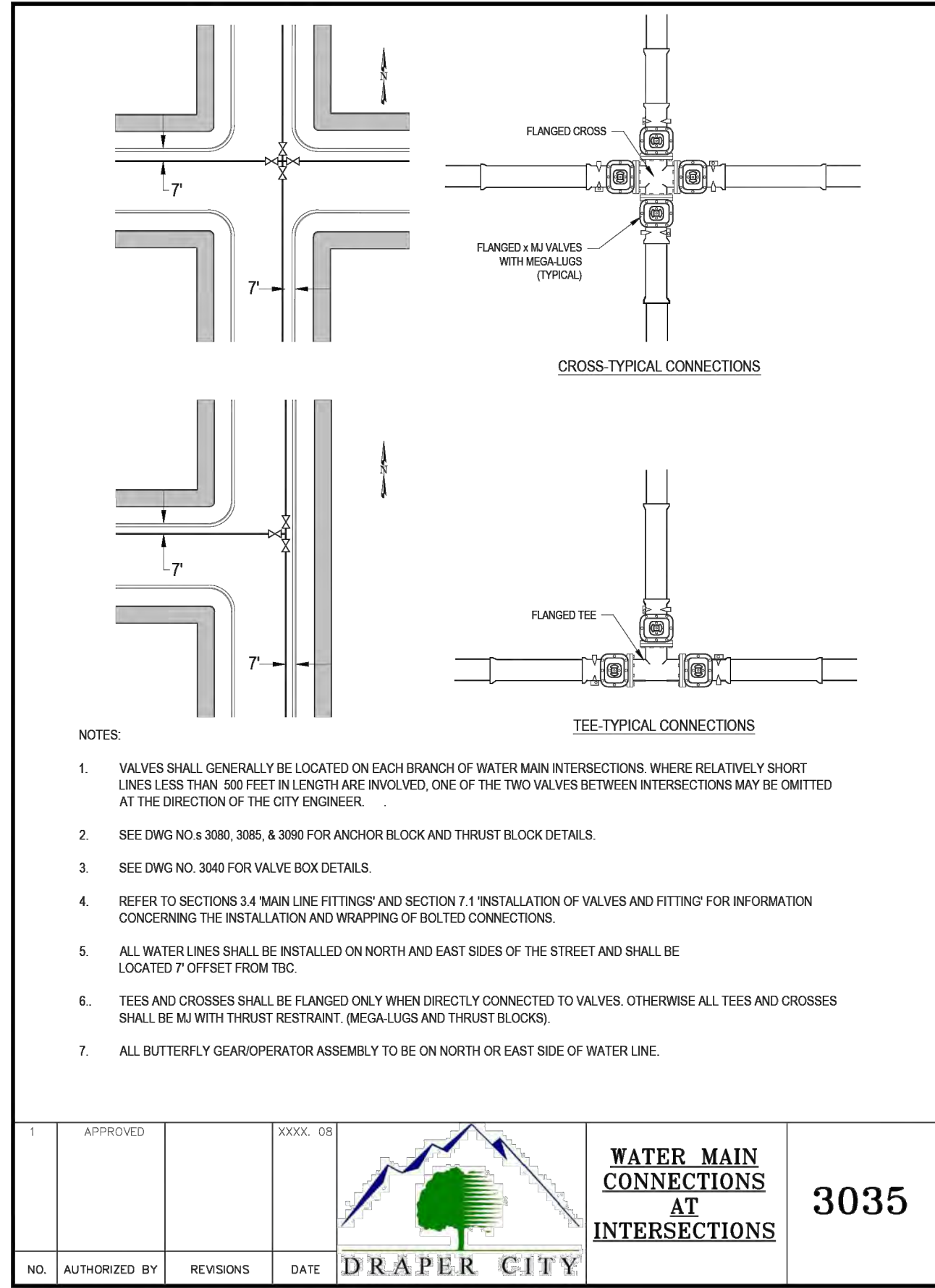
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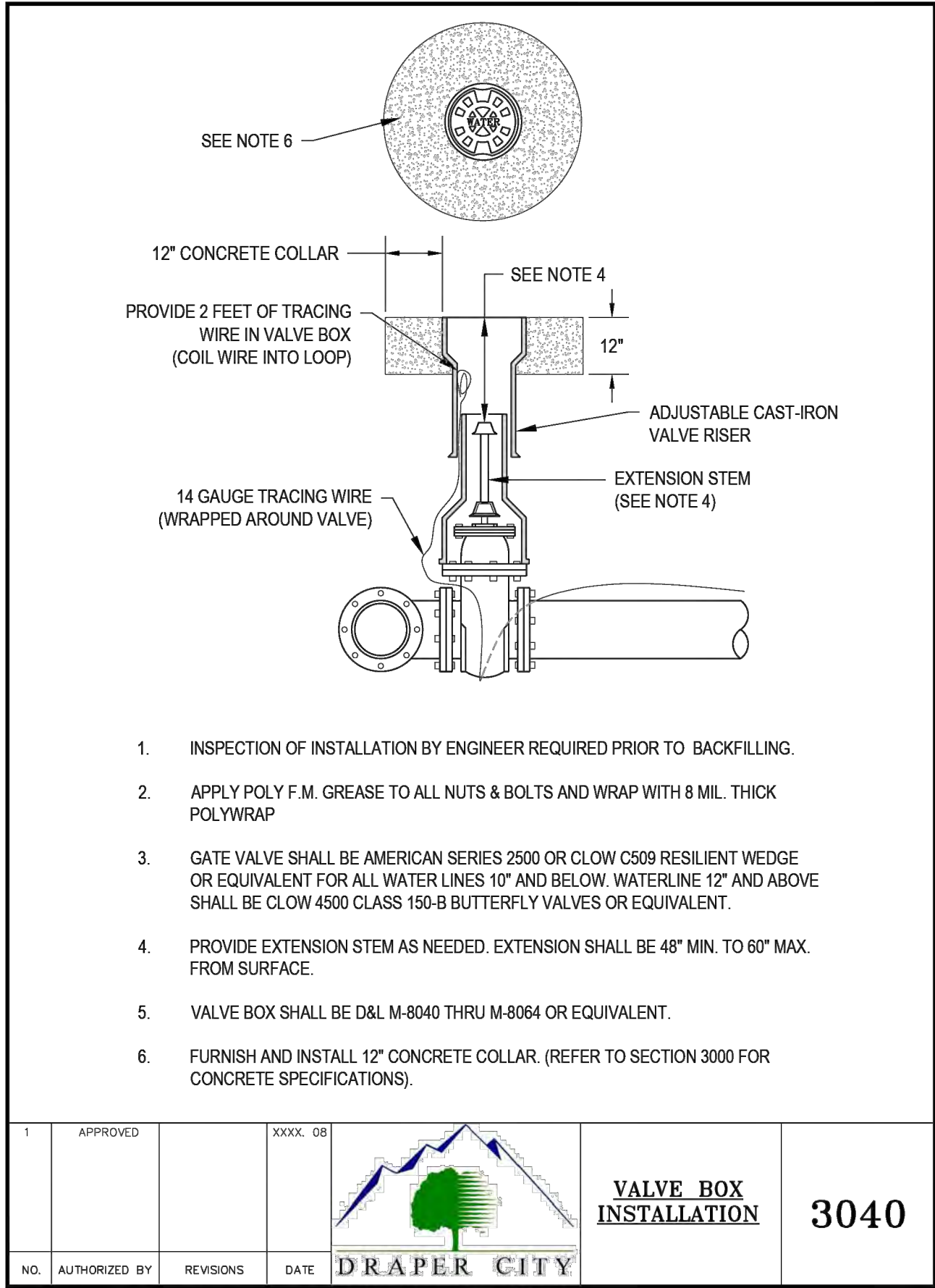
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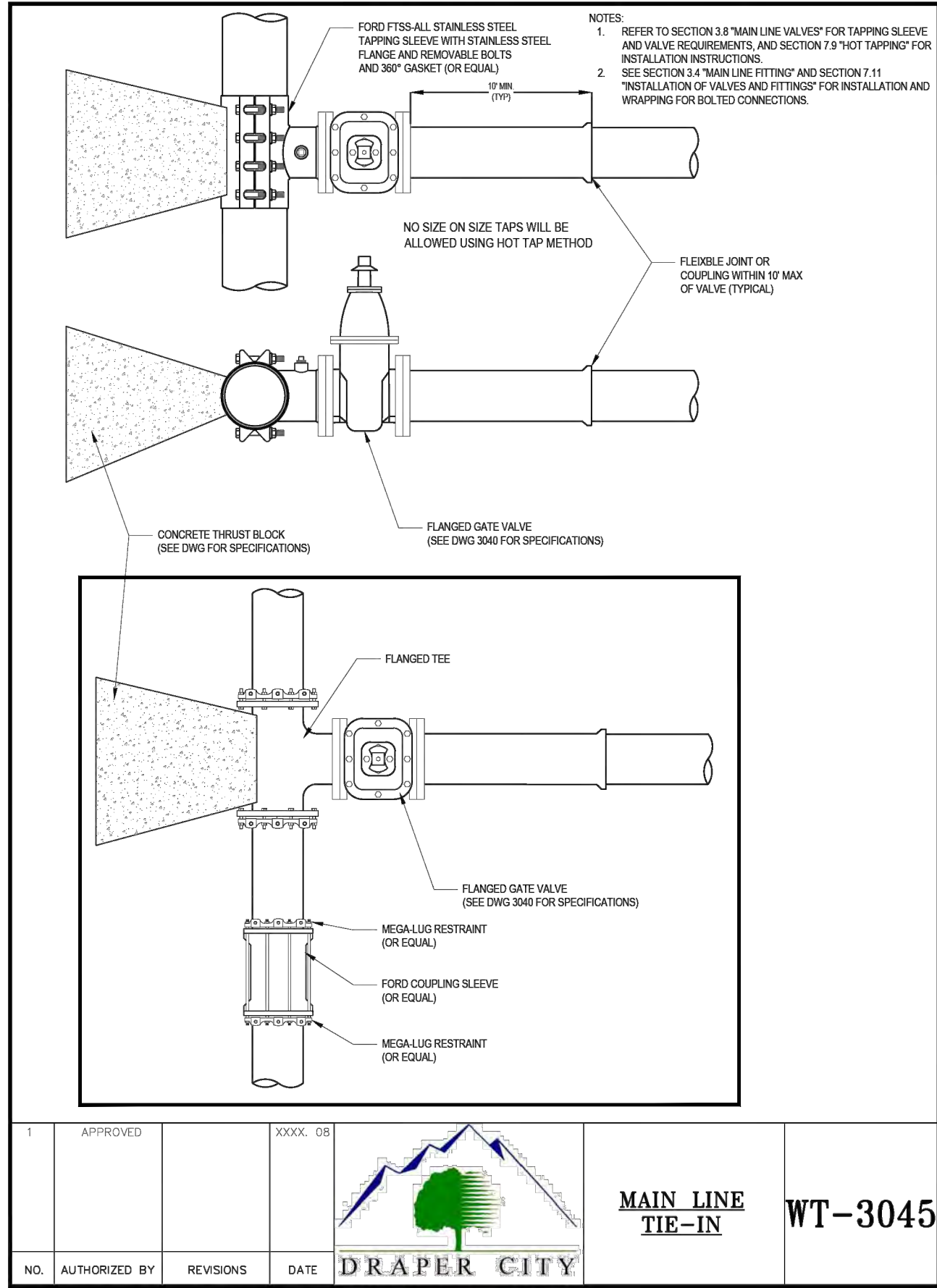
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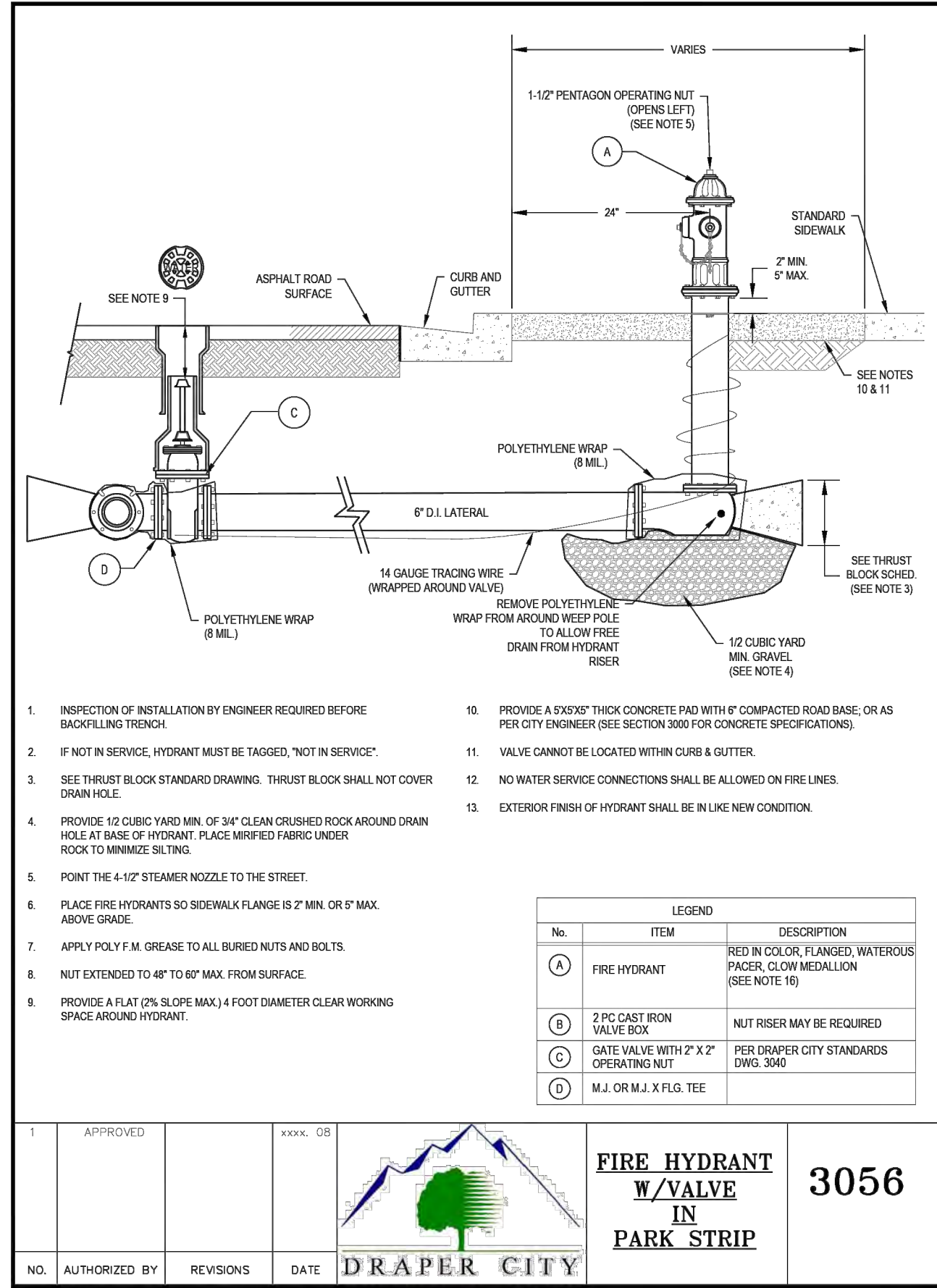
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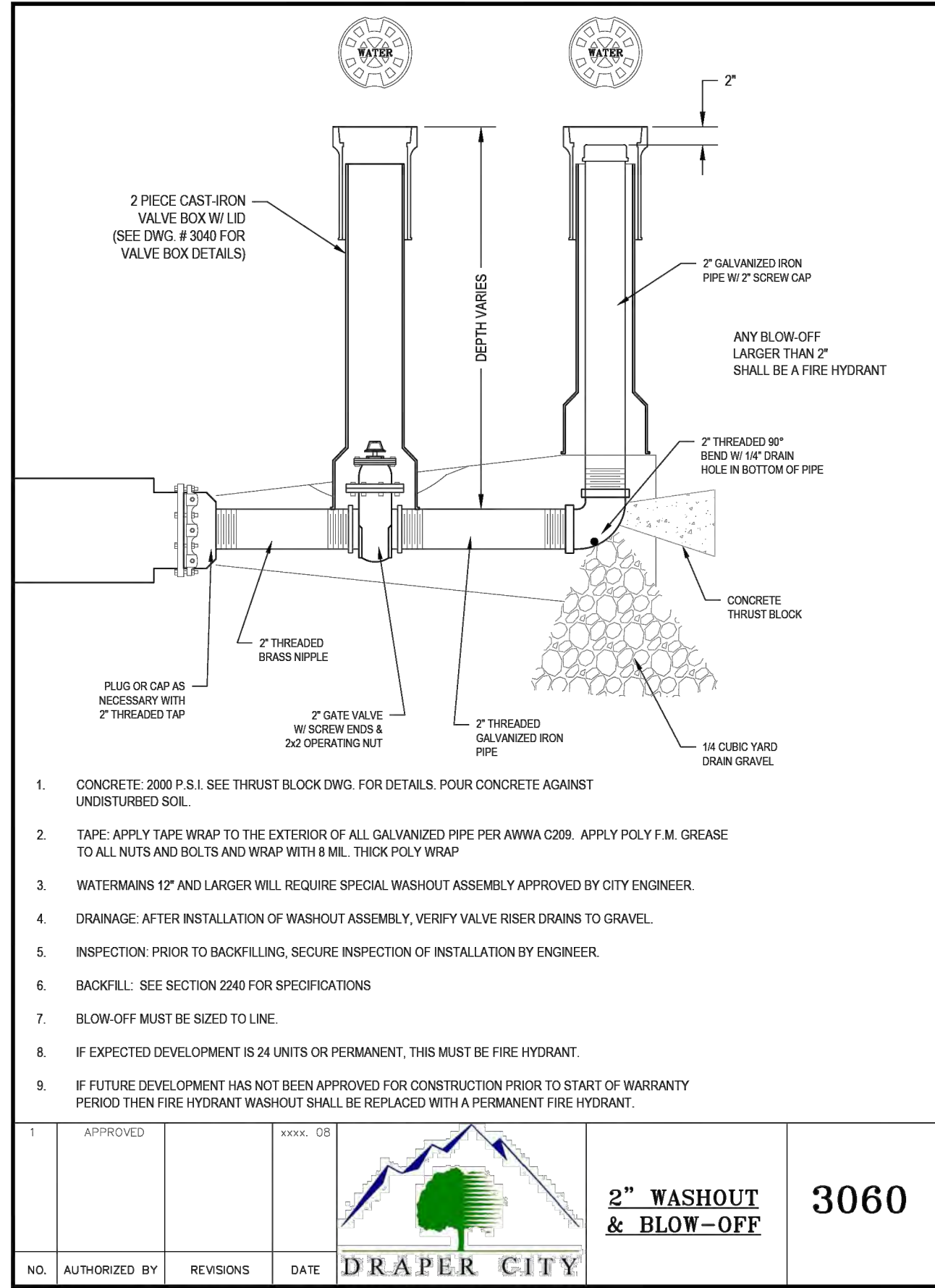
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APCO Single Body Combination Air Valves (AVC) 1-8"

Product datasheet



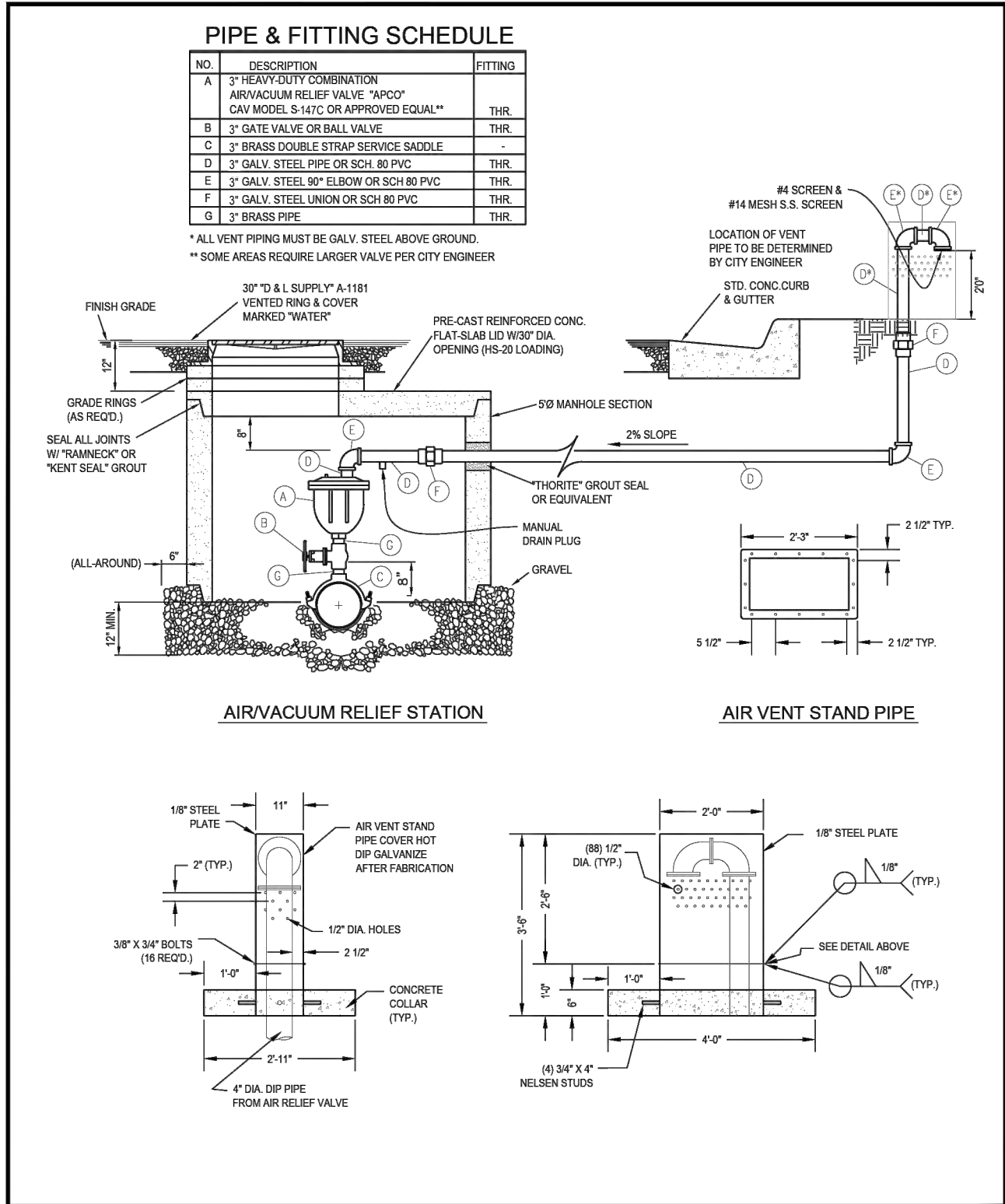
APCO Single Body Combination Air Valves (AVC) 1-8"

Product datasheet

2 Configuration settings

Configuration	
Valve Size	3" (80mm)
End Connection	Threaded Inlet NPT
Outlet Option	Flanged Outlet
Accessories	None

Bill of Materials Data	
Manufacturer	DeZURIK
Description	DeZURIK Brand AVC-3" (80mm) Valve, 147C, Single Body NPT Output, Threaded Inlet NPT, Flanged Outlet
Part number	AVC-3-147C-T1-FL
URL	https://www.dezurik.com/products/product-line/air-valves/1725/



Date : February 4, 2025

Page : 2

TraceParts ®

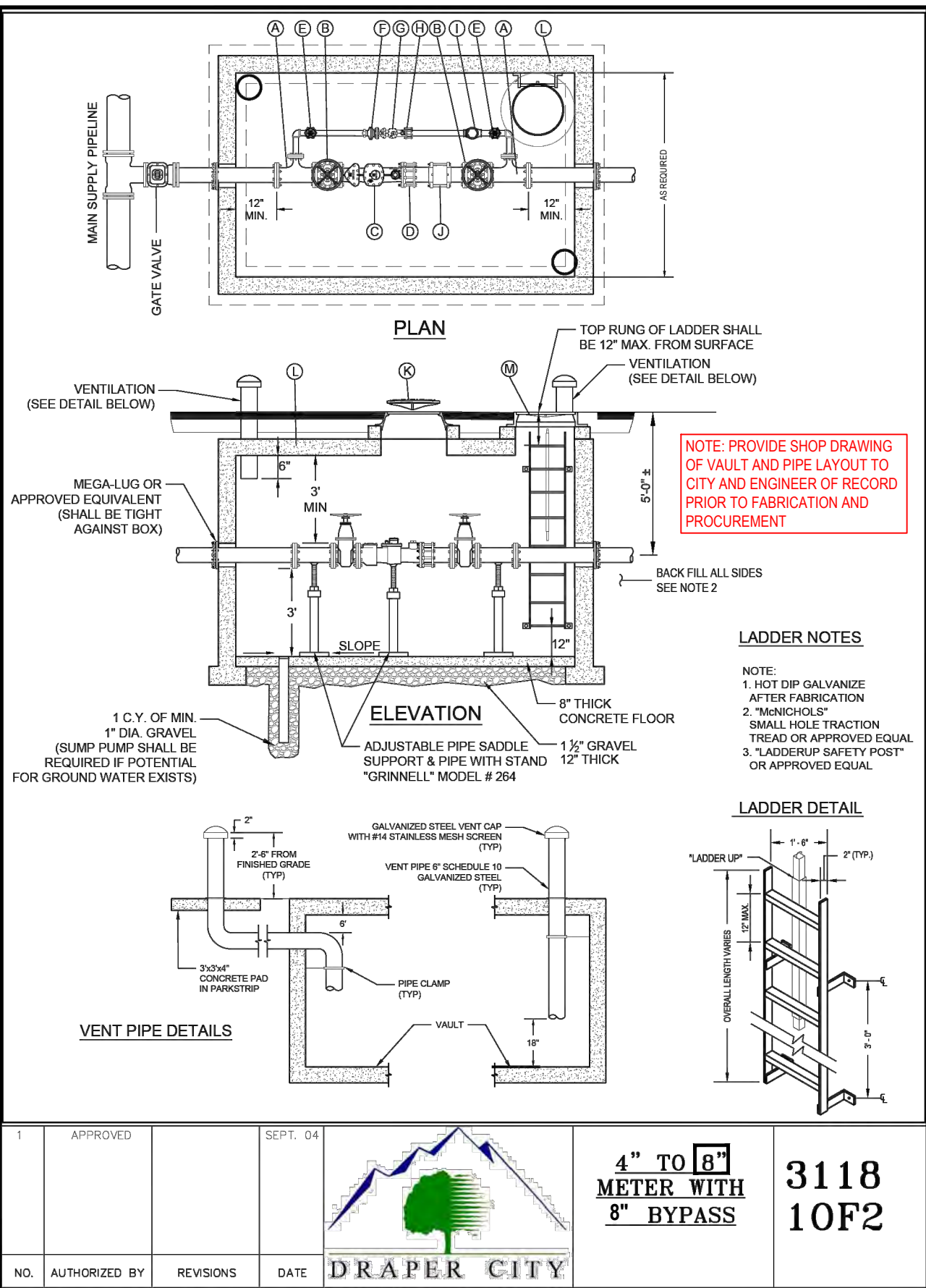
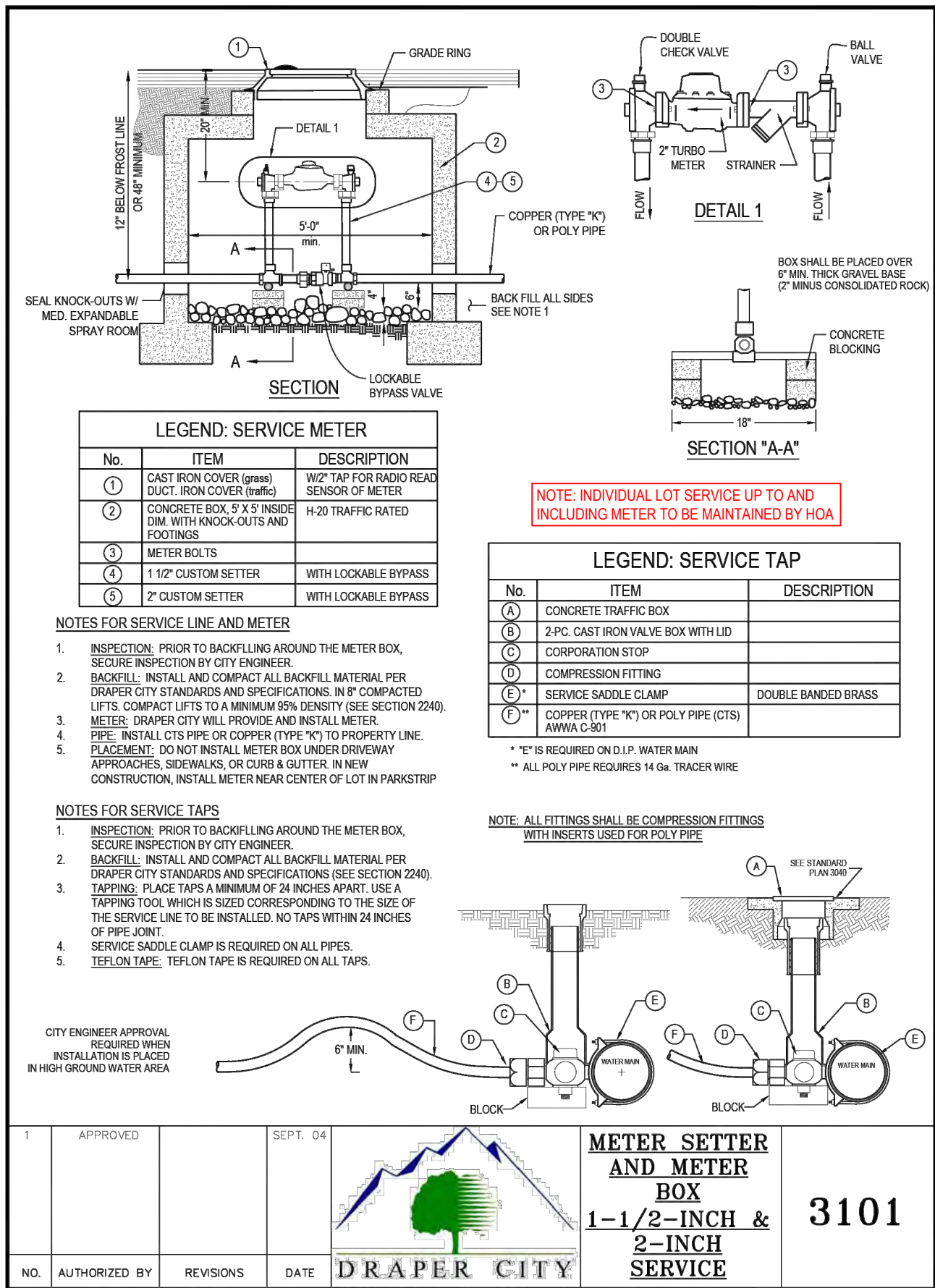
1 COMBINATION AIR RELEASE & VACUUM VALVE

SCALE: NONE

Date : February 4, 2025

Page : 3

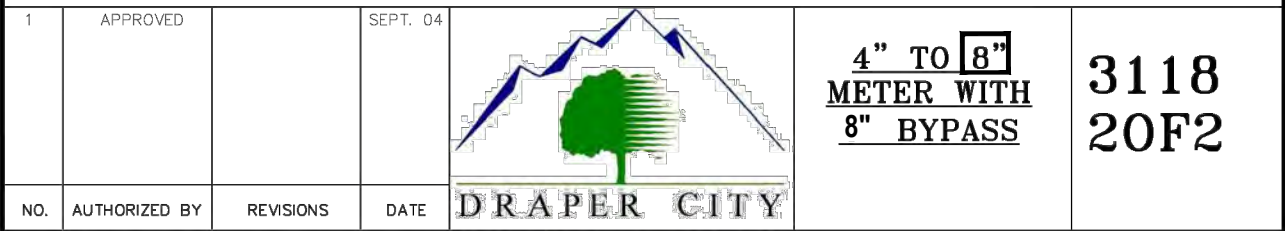
TraceParts ®



NOTES

- PRIOR TO BACK FILLING AROUND CONCRETE BOX, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
- INSTALL BACK FILL IN LIFTS NOT EXCEEDING 8" AFTER COMPACTION. COMPACT EACH LIFT TO DRY DENSITY OF 96% ± 2% OPTIMUM MOISTURE.
- PROVIDE BRASS FITTINGS AND NIPPLES IF NOT SPECIFIED OTHERWISE. DO NOT USE GALVANIZED MATERIALS.
- ALL PIPING SHALL BE DUCTILE IRON CLASS 55 AND SHALL BE PAINTED AS PER AWWA STANDARD C210-97.
- CONCRETE METER BOX SHALL BE H-20 TRAFFIC LOADING RATED.
- ALLOW 1" CLEARANCE AROUND WATERLINE WHERE LINE PASSES CONCRETE WALLS. SEAL OPENING WITH COMPRESSIBLE SEAL.
- INSTALL VALVE WITH VALVE BOX ADJACENT TO MAIN.
- GREASE MEGA-LUGS USING POLY F.M. GREASE AND WRAP WITH 8 MIL THICK POLYWRAP.
- 10" AND LARGER METERS SHALL BE ENGINEERED AND SUBMITTED TO CITY FOR APPROVAL BY CITY ENGINEER.

LEGEND		
ITEM	DESCRIPTION	PART NUMBER
1	FLANGED TEE	
2	GATE VALVE W/ HANDWHEEL	
3	SENSUS METER	SENSUS OMNIT 2 W/ RADIO READ FOR COMMERCIAL APPLICATIONS SENSUS OMNIT 2 W/ RADIO READ FOR METER METER APPLICATIONS
4	FLANGED COUPLING ADAPTER	
5	1" LOCK-FIT TYPE OF METER FLANGE	
6	SENSUS METER	SENSUS OMNIT 2 W/ RADIO READ
7	1" FLANGED COUPLING ADAPTER	
8	1" CHECK VALVE	
9	VAL-MATIC CHECK VALVE	SEE SPECIFICATIONS FOR REQUIRED VALVE BEARING FROM METER
10	24" MANHOLE RING AND COVER	
11	CONCRETE BOX (SEE NOTE 5)	TO BE SIZED PER APPLICATION AND PIPE SIZE
12	24" MANHOLE RING AND COVER	



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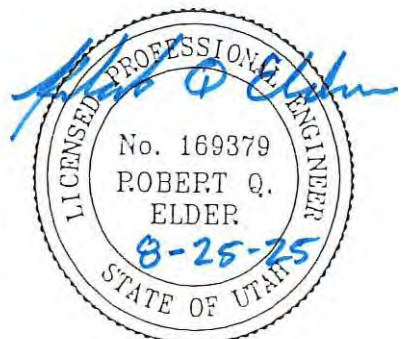
RICHFIELD
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DETAILS

PROJECT NUMBER
8884C

PRINT DATE
8/18/25

DRAWN BY
J. GERA

CHECKED BY
R. ELDER

PROJECT MANAGER
R. ELDER

C-508