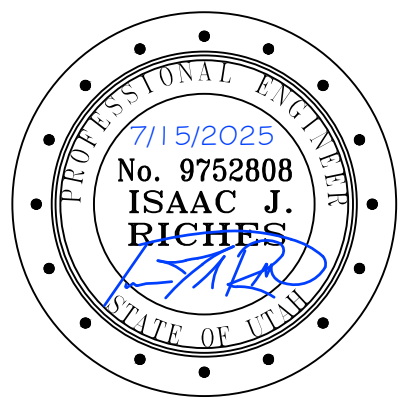




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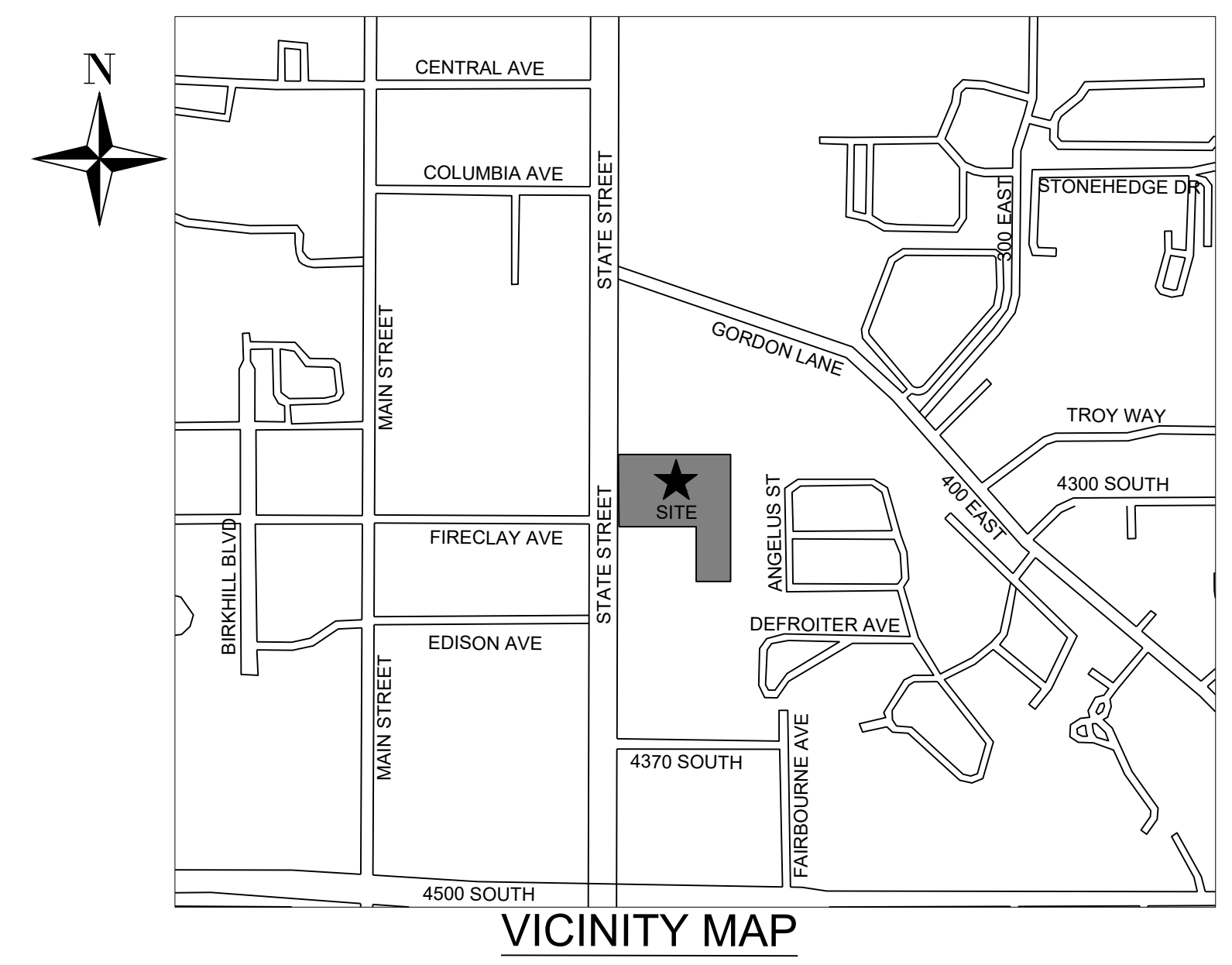


RC AUTOMOTIVE SERVICE BAYS

4293 SOUTH STATE STREET MURRAY, UTAH 84107

**NORTHWEST QUARTER OF SECTION 6
TOWNSHIP 2 SOUTH & RANGE 1 EAST
SALT LAKE BASE AND MERIDIAN
MURRAY, SALT LAKE COUNTY, UTAH**

RC AUTOMOTIVE SERVICE BAYS
4293 SOUTH STATE STREET
MURRAY CITY, UTAH, 84107



1. ALL WORK SHALL CONFORM TO MURRAY CITY STANDARDS & SPECIFICATIONS
2. CALL BLUE STAKES AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
3. THE CONTRACTOR IS CAUTIONED THAT THE LOCATION AND/OR ELEVATIONS OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE CARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES.

GENERAL NOTES

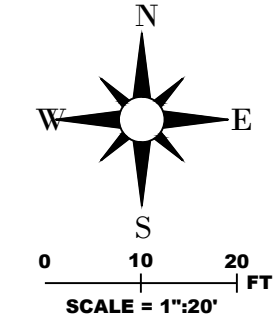
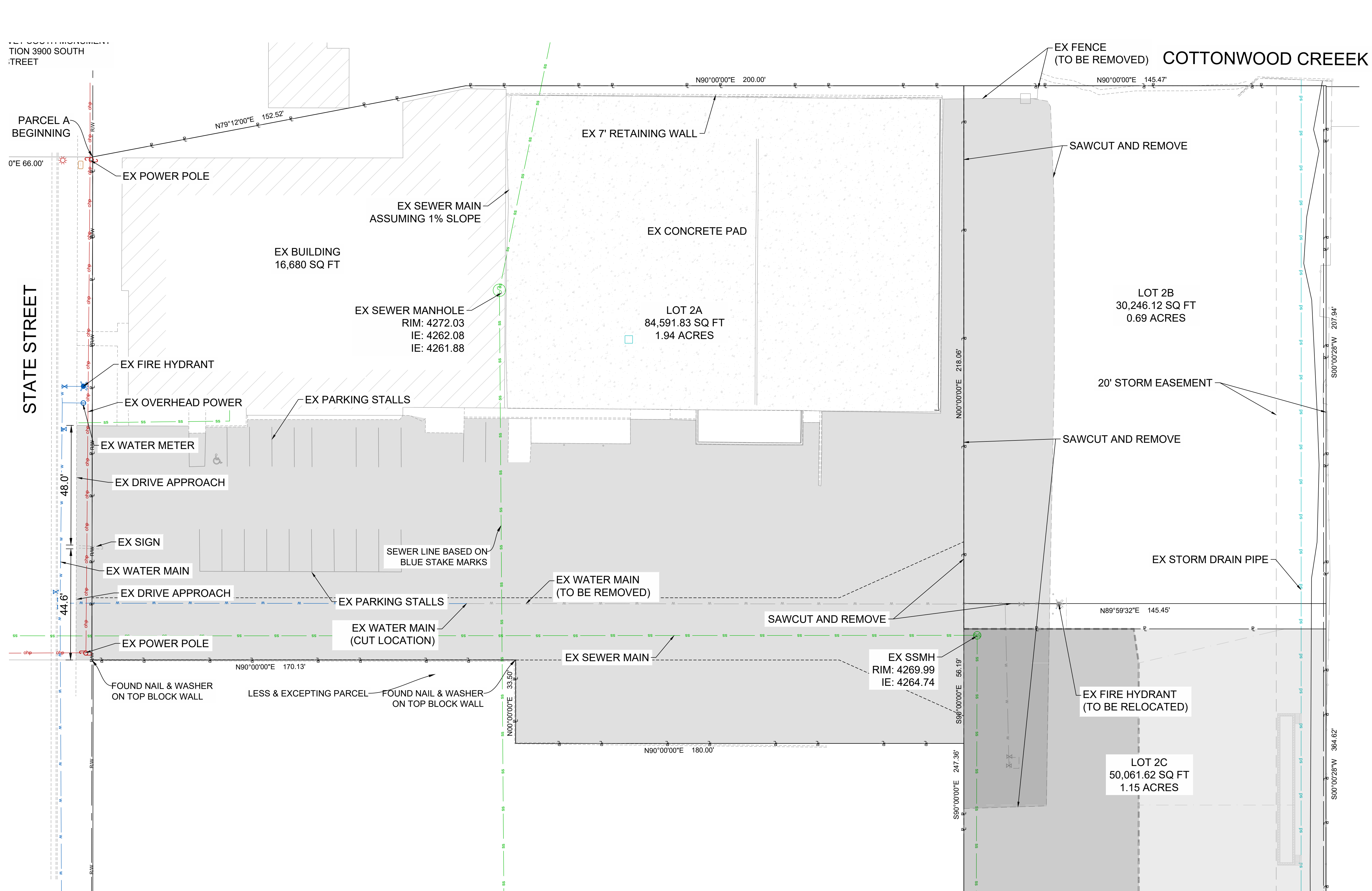
SHEET INDEX		
PAGE #	SHEET #	SHEET TITLE
1	C000	COVER SHEET
2	C100	GENERAL NOTES
3	C200	EXISTING/DEMO PLAN
4	C300	SITE/UTILITY PLAN
5	C301	UTILITY PROFILE
6	C400	GRADING PLAN
7	C500	DRAINAGE PLAN
8	C600	EROSION CONTROL PLAN
9	C700-C702	DETAILS
10	LA100	LANDSCAPE PLAN

CLIENT/DEVELOPER CONTACT
NAME: CAMERON BROWN
ADDRESS: 4339 SOUTH STATE STREET
MURRAY, UTAH 84107
PHONE: 385-225-1722
EMAIL: BROWN.CBADVISORS@GMAIL.COM

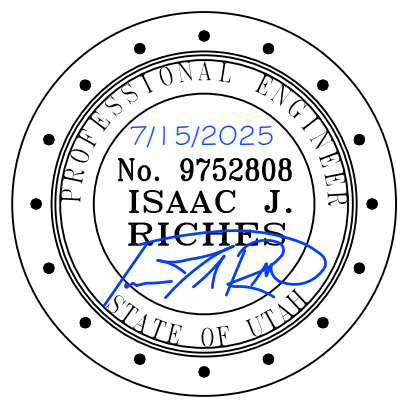
REV	COMMENT

SHEET NO.
C000
COVER PAGE

SECTION 3900 SOUTH STREET



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SLC, UT 84106
isaac@irecivil.com (801) 860-2191



RC AUTOMOTIVE SERVICE BAYS
4293 SOUTH STATE STREET
MURRAY CITY, UTAH, 84107

CLIENT/DEVELOPER CONTACT
NAME: CAMERON BROWN
ADDRESS: 4339 SOUTH STATE STREET
MURRAY, UTAH 84107
PHONE: 385-225-1722
EMAIL: CBROWN.CBADVISORS@GMAIL.COM

REV	COMMENT

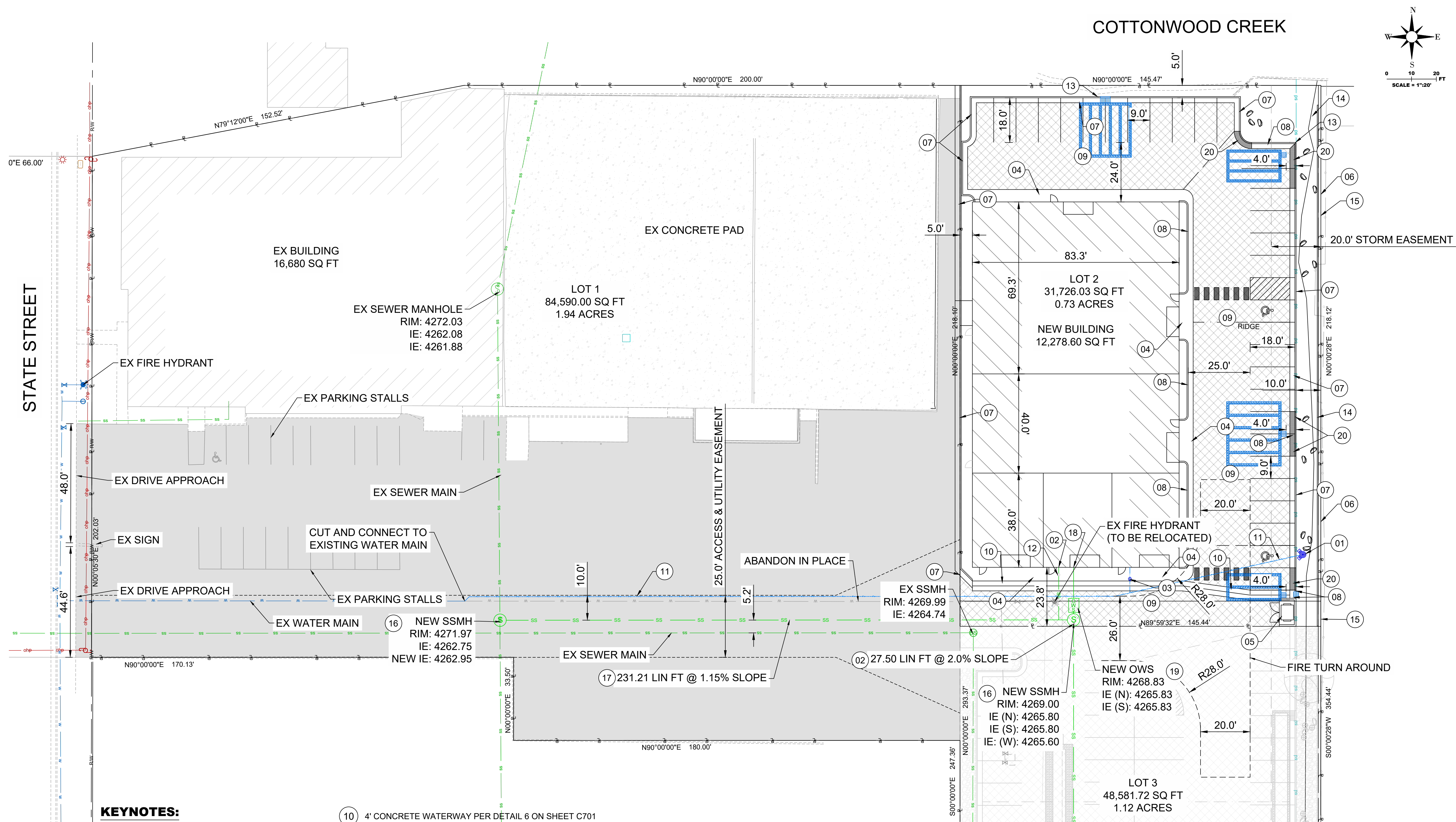
SHEET NO.
C200
EXISTING/DEMO
PLAN

CAUTION: NOTICE TO CONTRACTOR

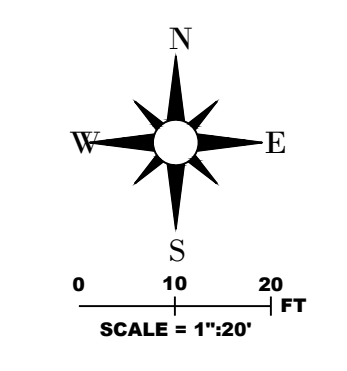
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THE CONTRACTOR IS TO CALL BLUE STAKES PRIOR TO ANY CONSTRUCTION.



COTTONWOOD CREEK



1246 E Driggs Ave
SLC, UT 84106
isaac@recivil.com (801) 860-2191



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4293 SOUTH STATE STREET
MURRAY CITY, UTAH, 84107

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EMAIL: BROWN.CB@ADVISORSIGMAIL.COM

REV	COMMENT

SHEET NO.
C300
SITE/UTILITY PLAN

KEYNOTES:

- 01 NEW FIRE HYDRANT & 4'X4' CONCRETE PAD PER MURRAY CITY WATER SPECIFICATIONS & REQUIREMENTS PAGE 9-10 (SEE DETAIL 1 ON SHEET C700)
- 02 4" DIA SDR35 SEWER LATERAL @ 2.0% SLOPE PER MURRAY CITY WATER SPECIFICATIONS & REQUIREMENTS PAGE #11 (SEE DETAILS 2 ON SHEET C700)
- 03 1" COPPER WATER LATERAL & METER W/ COLLAR PER MURRAY CITY WATER SPECIFICATION & REQUIREMENTS PAGE #16. POLY PIPE TO BE RUN AFTER METER (SEE DETAILS 4&5 ON SHEET C700)
- 04 CONCRETE APRON PER DETAIL 1 ON SHEET C701
- 05 DUMPSTER ENCLOSURE PER DETAIL 2 ON SHEET C701
- 06 RETAINING WALL PER DETAIL 6 ON SHEET C701
- 07 2.5" 'CATCH' CURB AND GUTTER PER DETAIL 3 ON SHEET C701
- 08 2.5" 'RELEASE' CURB AND GUTTER PER DETAIL 4 ON SHEET C701
- 09 3" ASPHALT PER DETAIL 5 ON SHEET C701 & GEOTECHNICAL REPORT
- 10 4' CONCRETE WATERWAY PER DETAIL 6 ON SHEET C701
- 11 6" DIA POLY-WRAPPED CLASS 52 DUCTILE IRON WATER LINE
- 12 SEWER CLEANOUT (PER DETAIL 3 ON SHEET C700)
- 13 CURB CUT
- 14 STORM OVERFLOW ROUTE
- 15 6" CONCRETE MASONRY FENCE
- 16 5' SEWER MANHOLE PER APWA #411
- 17 8" DIA C700 SEWER MAIN
- 18 6" DIA C700 SEWER LATERAL
- 19 OIL WATER SEPERATOR PER APWA #441
- 20 CURB TRANSITION

LAND USE TABLE - LOT 2		
MURRAY CITY ZONING: CD (COMMERCIAL DEVELOPMENT)		
GROSS SQUARE FOOTAGE (ACRES)	31,706.50 SQ. FT. (0.73 ACRES)	100%
BUILDING FOOTPRINT	12,277.73 SQ. FT.	38.70%
HARDSCAPE	14,814.36 SQ. FT.	46.70%
LANDSCAPE	4,614.41 SQ. FT.	14.60%
PARKING STALLS	29 STALLS	
ADA STALLS	2 STALLS	
TOTAL PARKING	31 STALLS	

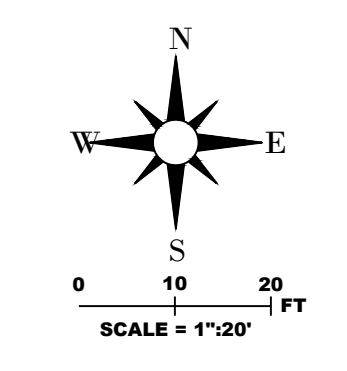
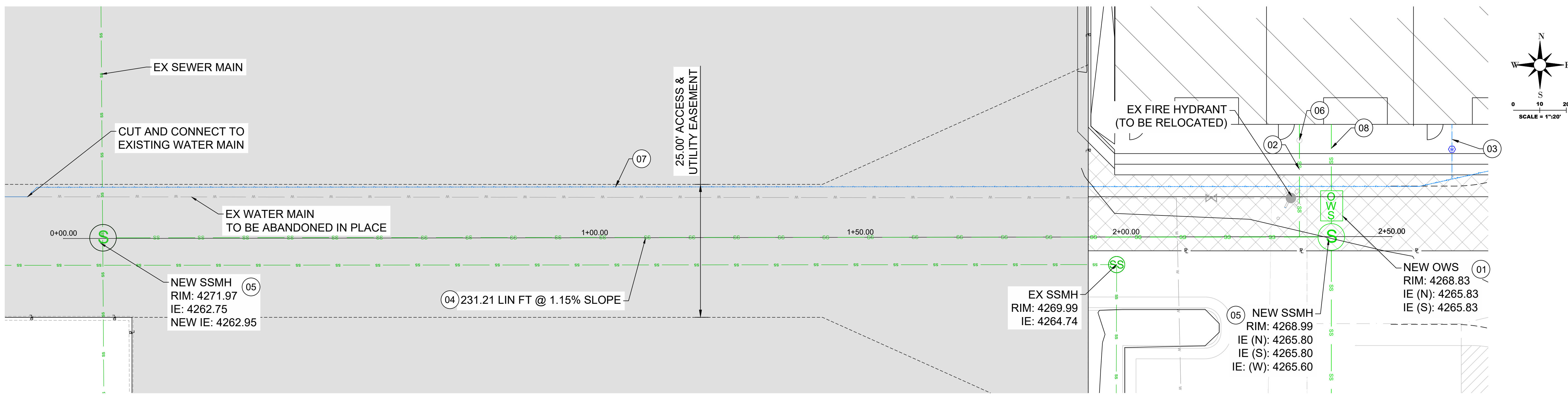


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CAUTION: NOTICE TO CONTRACTOR

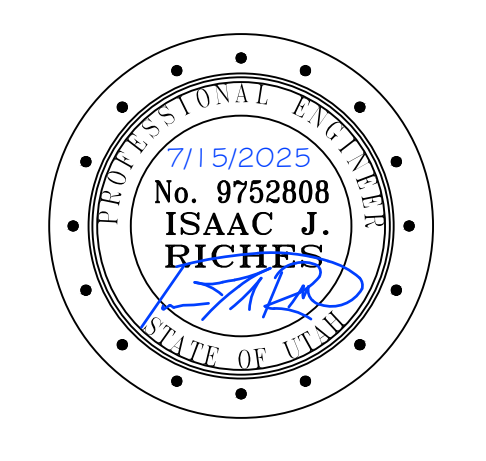
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THE EXISTING CHANNEL (COTTONWOOD CREEK) EMBANKMENTS AND/OR RETAINING WALLS SHALL BE PRESERVED PER PRE-DEVELOPMENT CONDITIONS.

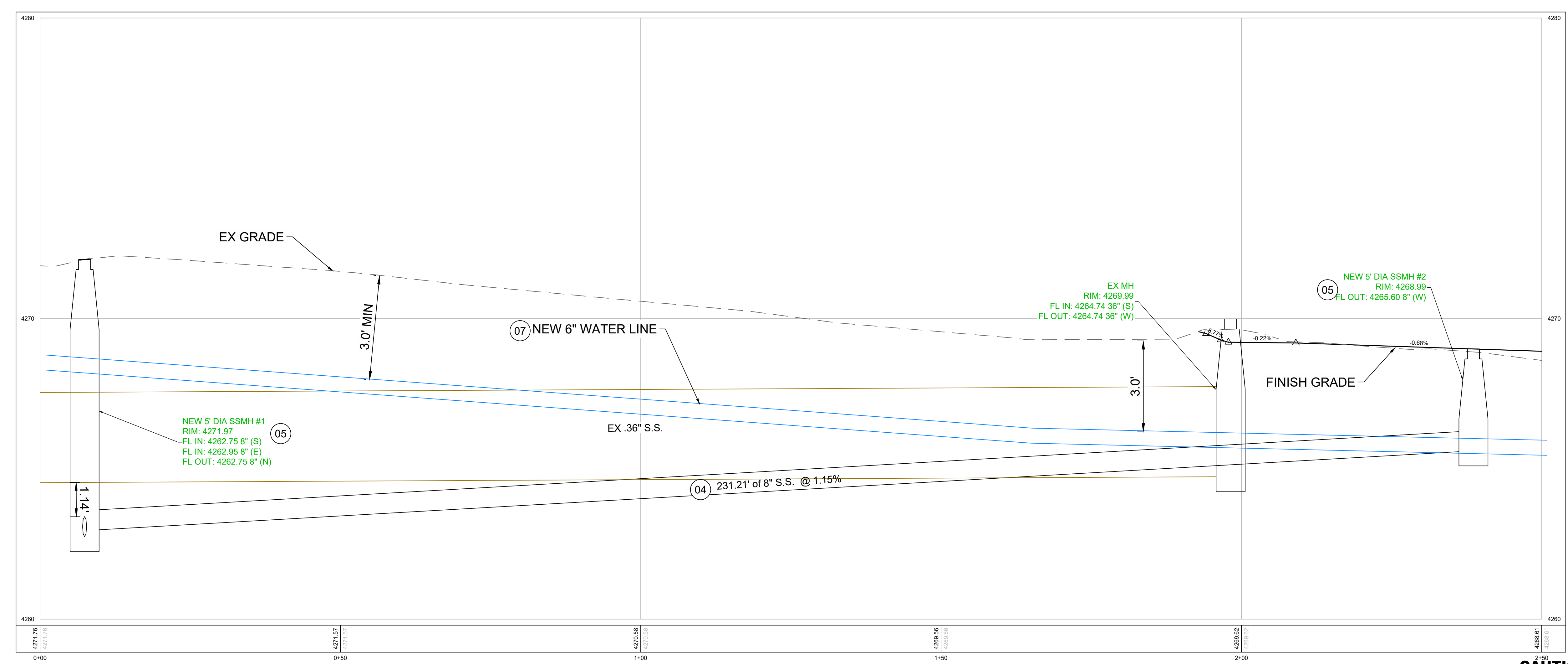


RE CIVIL

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PLAN



PROFILE

KEYNOTES:

- 01 OIL WATER SEPERATOR PER APWA #441
- 02 4" DIA SDR35 SEWER LATERAL @ 2.0% SLOPE PER MURRAY CITY WATERWATER SPECIFICATIONS & REQUIREMENTS PAGE #11 (SEE DETAILS 2 ON SHEET C700)
- 03 1" COPPER WATER LATERAL & METER W/ COLLAR PER MURRAY CITY WATER SPECIFICATION & REQUIREMENTS PAGE #16. POLY PIPE TO BE RUN AFTER METER (SEE DETAILS 4&5 ON SHEET C700)
- 04 8" DIA C700 SEWER MAIN'
- 05 5' SEWER MANHOLE PER APWA #411
- 06 SEWER CLEANOUT (PER DETAIL 3 ON SHEET C700)
- 07 6" DIA POLY-WRAPPED CLASS 52 DUCTILE IRON WATER LINE
- 08 6" DIA C700 SEWER LATERAL



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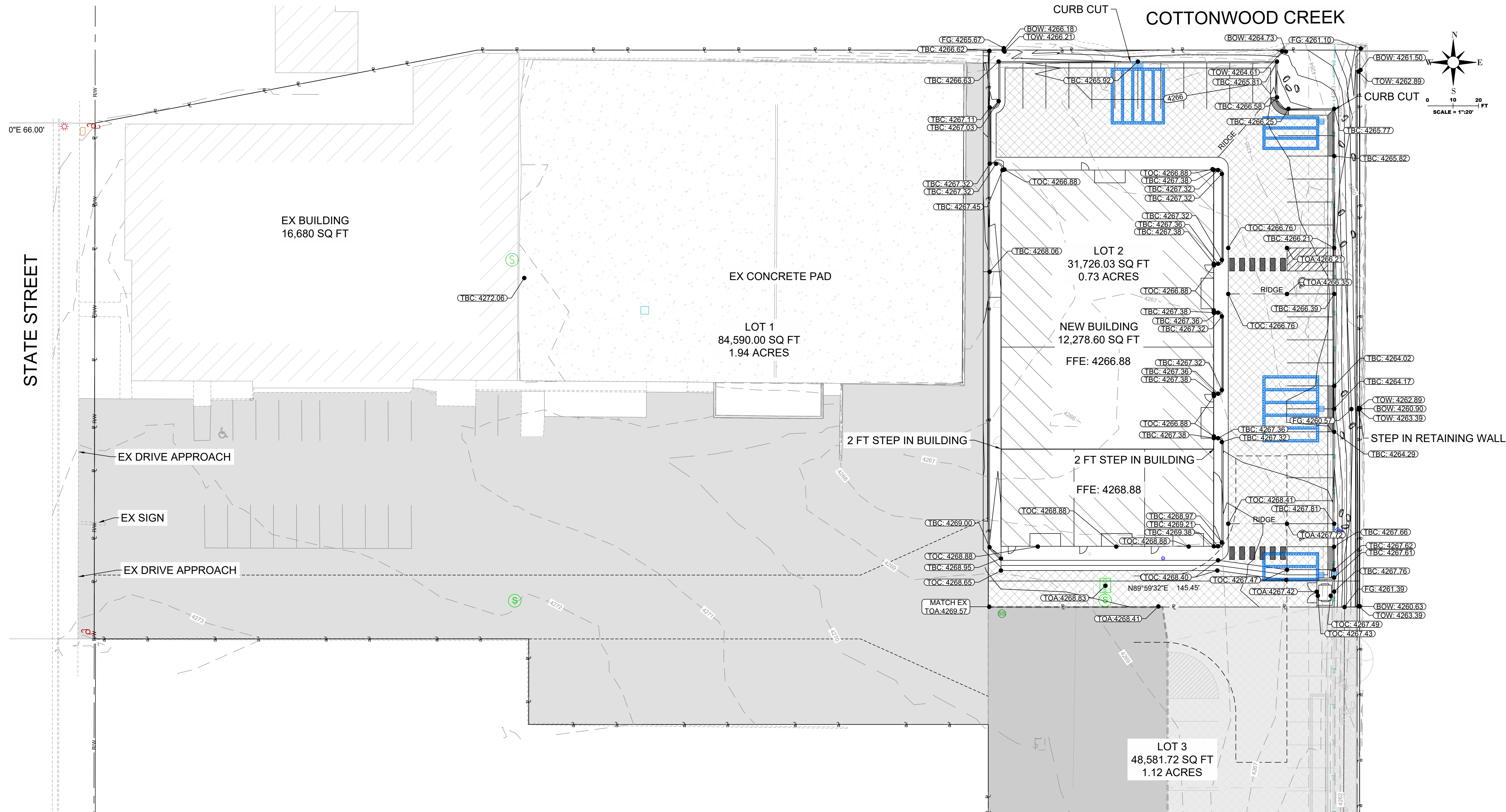
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MURRAY, UTAH 84107
PHONE: 385-225-1722
EMAIL: CBROWN.CBADVISORS@GMAIL.COM

REV	COMMENT

SHEET NO.
C301
PROFILE

RC AUTOMOTIVE SERVICE BAYS
4293 SOUTH STATE STREET
MURRAY CITY, UTAH, 84107



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SLC, UT 84106
isaac@irecivil.com (801) 860-2191



RC AUTOMOTIVE SERVICE BAYS
4293 SOUTH STATE STREET
MURRAY CITY, UTAH, 84107

MATERIAL ANALYSIS		
ITEM	QUANTITY	UNITS
TOTAL CUT/FILL	266.40 (CUT)	CU YD
ASPHALT	3,397	CU FT
ROAD BASE	6,794	CU FT
CURB & GUTTER	590	LIN FT
CONCRETE	1666	SQ FT

** THESE ARE ESTIMATES ONLY AND CONTRACTOR IS TO VERIFY ALL NUMBERS FOUND HEREIN

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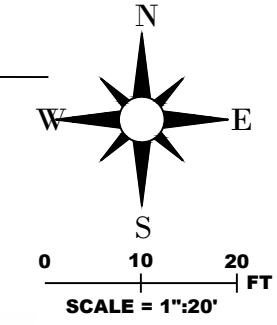
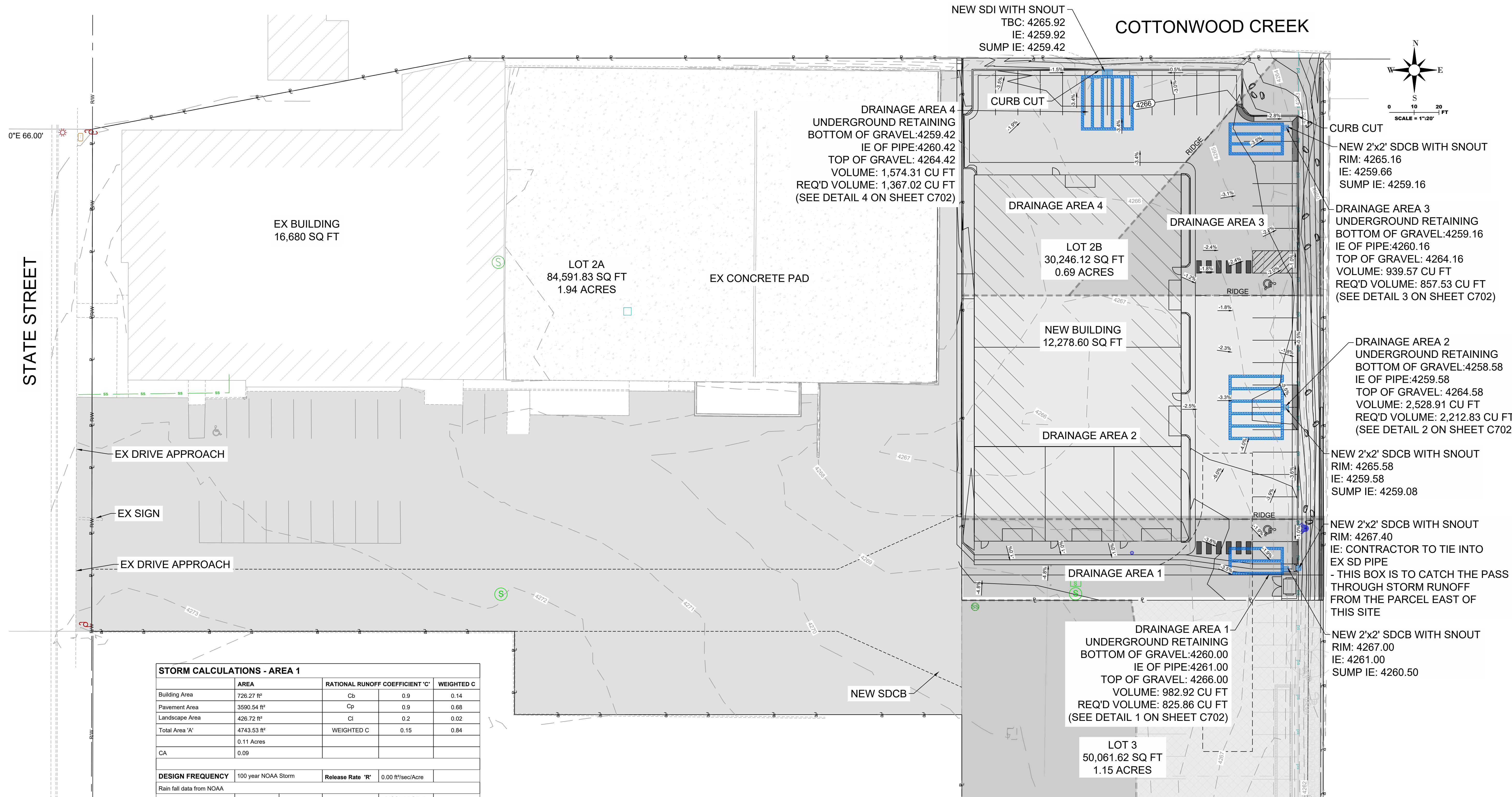
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REV	COMMENT

SHEET NO.

C400
GRADING
PLAN



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isaac@recivil.com (801) 860-2191



RC AUTOMOTIVE SERVICE BAYS
4293 SOUTH STATE STREET
MURRAY CITY, UTAH, 84107

CLIENT/DEVELOPER CONTACT
NAME: CAMERON BROWN
ADDRESS: 4339 SOUTH STATE STREET
MURRAY, UTAH 84107
PHONE: 385-225-1722
EMAIL: BROWN.CB@ADVISORS@GMAIL.COM

STORM CALCULATIONS - AREA 1

AREA	RATIONAL RUNOFF COEFFICIENT 'C'	WEIGHTED C
Building Area	C _b 0.9	0.14
Pavement Area	C _p 0.9	0.68
Landscape Area	C _l 0.2	0.02
Total Area 'A'	WEIGHTED C	0.84
CA		0.09

DESIGN FREQUENCY: 100 year NOAA Storm
Release Rate 'R': 0.00 ft³/sec/Acre

T	RAIN FALL	C*A	RAIN FALL * C*A	DISCHARGE, D	STORAGE
15 min	4.18 in/hr	3970.47 ft ²	345.76 ft ³	0.00 ft ³	345.76 ft ³
30 min	2.81 in/hr	3970.47 ft ²	464.88 ft ³	0.00 ft ³	464.88 ft ³
60 min	1.74 in/hr	3970.47 ft ²	575.72 ft ³	0.00 ft ³	575.72 ft ³
180 min	0.64 in/hr	3970.47 ft ²	637.26 ft ³	0.00 ft ³	637.26 ft ³
360 min	0.35 in/hr	3970.47 ft ²	692.85 ft ³	0.00 ft ³	692.85 ft ³
720 min	0.21 in/hr	3970.47 ft ²	817.92 ft ³	0.00 ft ³	817.92 ft ³
1440 min	0.10 in/hr	3970.47 ft ²	825.86 ft ³	0.00 ft ³	825.86 ft ³

EQUATION: CA = C*A, F = d/12*CA, D=R*A*60*T, Storage = F-D

STORM CALCULATIONS - AREA 2

AREA	RATIONAL RUNOFF COEFFICIENT 'C'	WEIGHTED C
Building Area	C _b 0.9	0.52
Pavement Area	C _p 0.9	0.27
Landscape Area	C _l 0.2	0.02
Total Area 'A'	WEIGHTED C	0.81
CA		0.24

DESIGN FREQUENCY: 100 year NOAA Storm
Release Rate 'R': 0.00 ft³/sec/Acre

T	RAIN FALL	C*A	RAIN FALL * C*A	DISCHARGE, D	STORAGE
15 min	4.18 in/hr	10638.61 ft ²	926.45 ft ³	0.00 ft ³	926.45 ft ³
30 min	2.81 in/hr	10638.61 ft ²	1245.60 ft ³	0.00 ft ³	1245.60 ft ³
60 min	1.74 in/hr	10638.61 ft ²	1542.60 ft ³	0.00 ft ³	1542.60 ft ³
180 min	0.64 in/hr	10638.61 ft ²	1707.50 ft ³	0.00 ft ³	1707.50 ft ³
360 min	0.35 in/hr	10638.61 ft ²	1856.44 ft ³	0.00 ft ³	1856.44 ft ³
720 min	0.21 in/hr	10638.61 ft ²	2191.55 ft ³	0.00 ft ³	2191.55 ft ³
1440 min	0.10 in/hr	10638.61 ft ²	2212.83 ft ³	0.00 ft ³	2212.83 ft ³

EQUATION: CA = C*A, F = d/12*CA, D=R*A*60*T, Storage = F-D

STORM CALCULATIONS - AREA 3

AREA	RATIONAL RUNOFF COEFFICIENT 'C'	WEIGHTED C
Building Area	C _b 0.9	0.18
Pavement Area	C _p 0.9	0.48
Landscape Area	C _l 0.2	0.05
Total Area 'A'	WEIGHTED C	0.71
CA		0.09

DESIGN FREQUENCY: 100 year NOAA Storm
Release Rate 'R': 0.00 ft³/sec/Acre

T	RAIN FALL	C*A	RAIN FALL * C*A	DISCHARGE, D	STORAGE
15 min	4.18 in/hr	4122.76 ft ²	359.02 ft ³	0.00 ft ³	359.02 ft ³
30 min	2.81 in/hr	4122.76 ft ²	482.71 ft ³	0.00 ft ³	482.71 ft ³
60 min	1.74 in/hr	4122.76 ft ²	597.80 ft ³	0.00 ft ³	597.80 ft ³
180 min	0.64 in/hr	4122.76 ft ²	661.70 ft ³	0.00 ft ³	661.70 ft ³
360 min	0.35 in/hr	4122.76 ft ²	719.42 ft ³	0.00 ft ³	719.42 ft ³
720 min	0.21 in/hr	4122.76 ft ²	849.29 ft ³	0.00 ft ³	849.29 ft ³
1440 min	0.10 in/hr	4122.76 ft ²	857.53 ft ³	0.00 ft ³	857.53 ft ³

EQUATION: CA = C*A, F = d/12*CA, D=R*A*60*T, Storage = F-D

STORM CALCULATIONS - AREA 4

AREA	RATIONAL RUNOFF COEFFICIENT 'C'	WEIGHTED C
Building Area	C _b 0.9	0.32
Pavement Area	C _p 0.9	0.47
Landscape Area	C _l 0.2	0.03
Total Area 'A'	WEIGHTED C	0.81
CA		0.15

DESIGN FREQUENCY: 100 year NOAA Storm
Release Rate 'R': 0.00 ft³/sec/Acre

T	RAIN FALL	C*A	RAIN FALL * C*A	DISCHARGE, D	STORAGE
15 min	4.18 in/hr	6572.23 ft ²	572.33 ft ³	0.00 ft ³	572.33 ft ³
30 min	2.81 in/hr	6572.23 ft ²	769.50 ft ³	0.00 ft ³	769.50 ft ³
60 min	1.74 in/hr	6572.23 ft ²	952.97 ft ³	0.00 ft ³	952.97 ft ³
180 min	0.64 in/hr	6572.23 ft ²	1054.84 ft ³	0.00 ft ³	1054.84 ft ³
360 min	0.35 in/hr	6572.23 ft ²	1146.85 ft ³	0.00 ft ³	1146.85 ft ³
720 min	0.21 in/hr	6572.23 ft ²	1353.88 ft ³	0.00 ft ³	1353.88 ft ³
1440 min	0.10 in/hr	6572.23 ft ²	1367.02 ft ³	0.00 ft ³	1367.02 ft ³

EQUATION: CA = C*A, F = d/12*CA, D=R*A*60*T, Storage = F-D



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REV	COMMENT

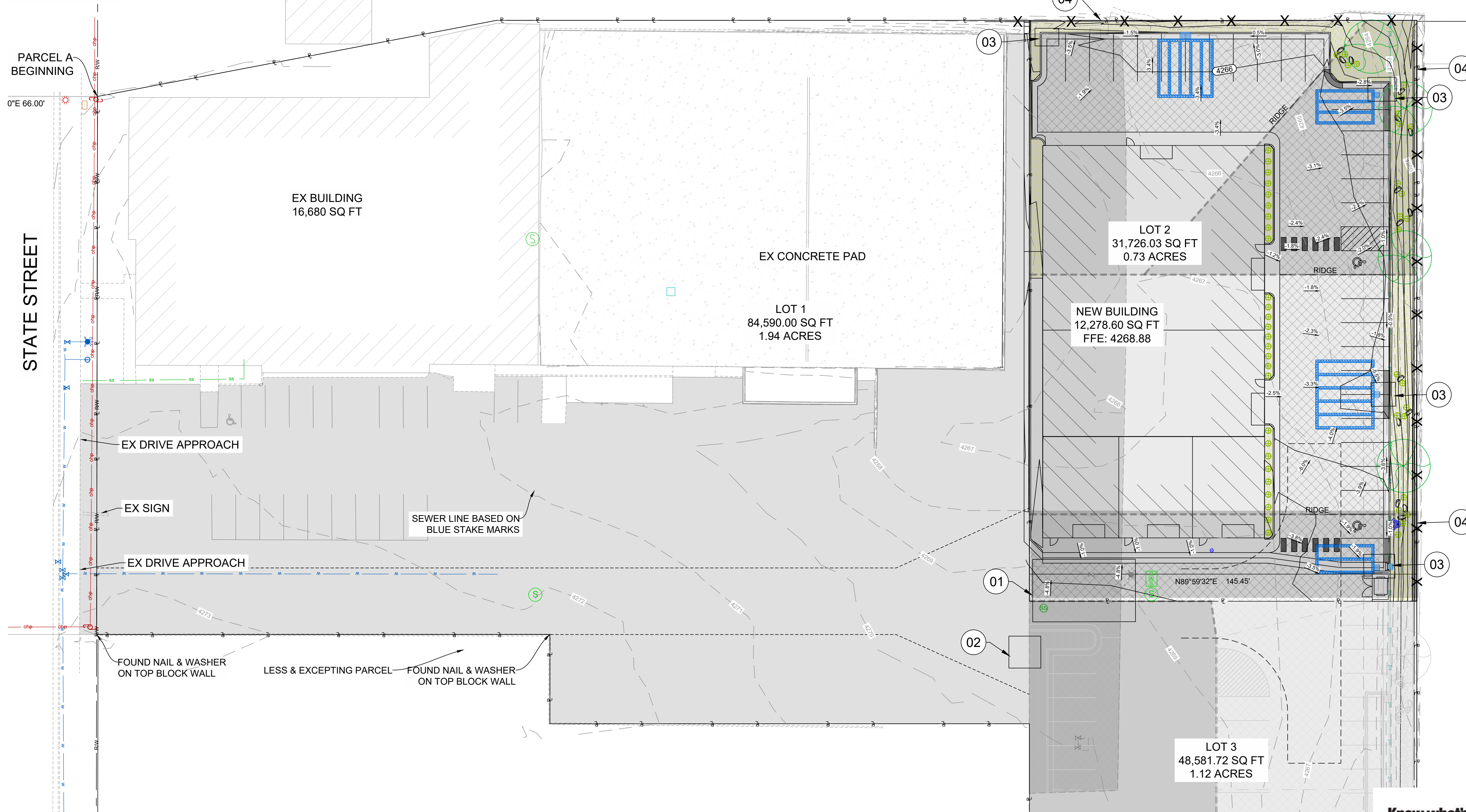
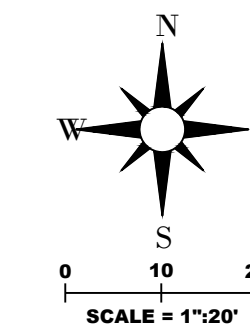
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C500
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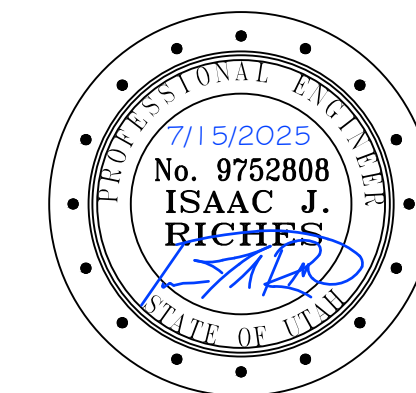
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STATE STREET

COTTONWOOD CREEK



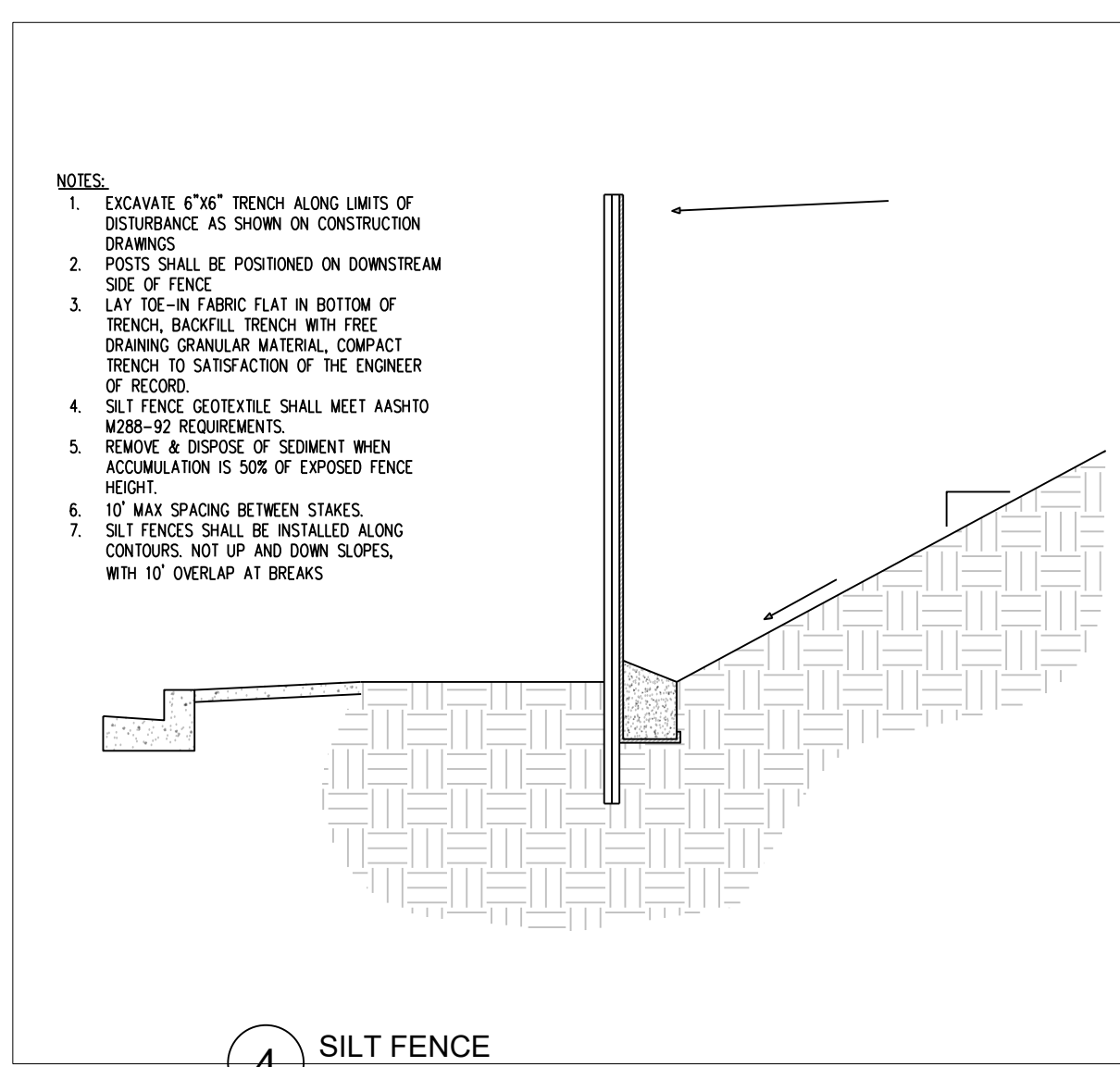
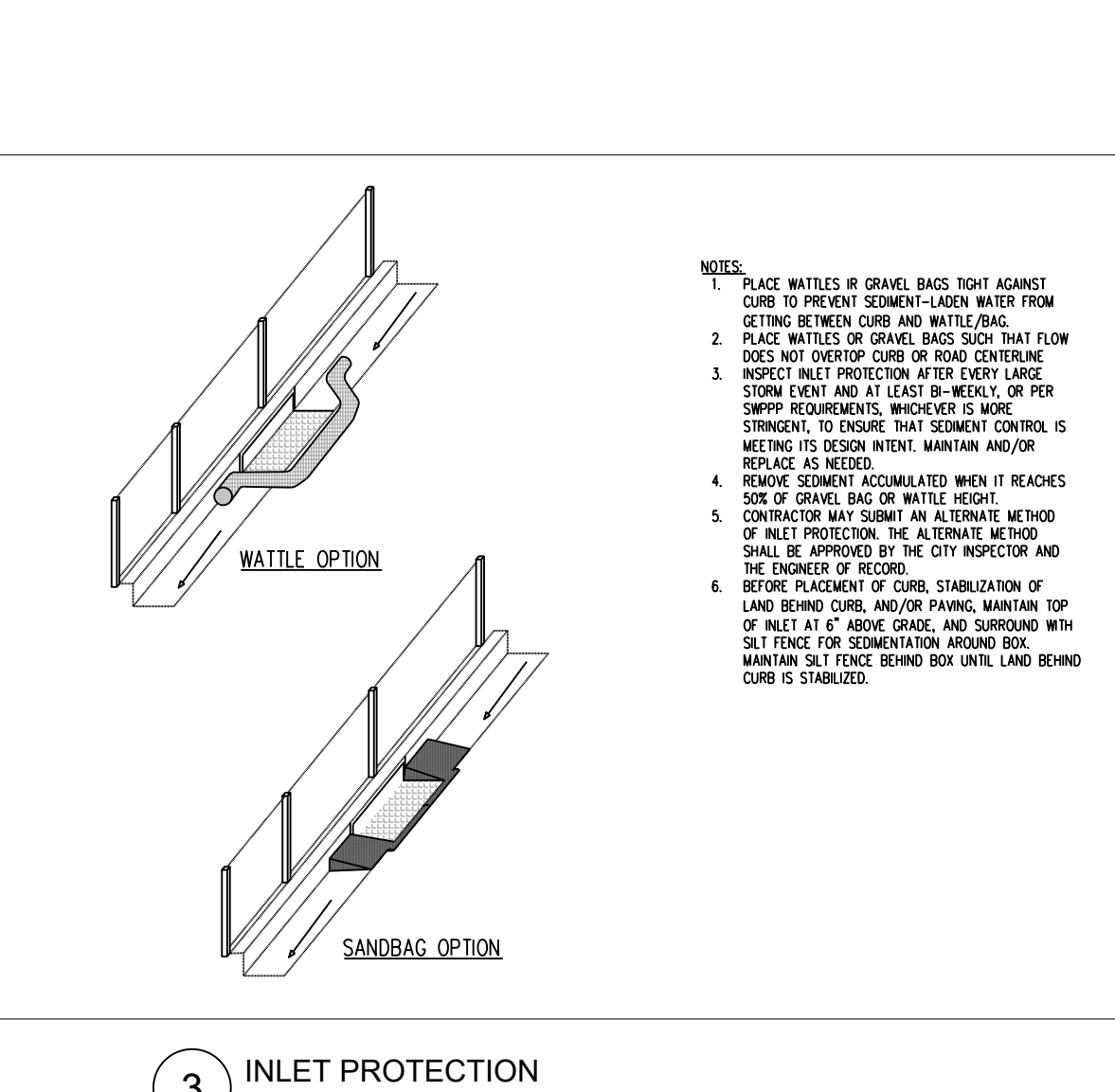
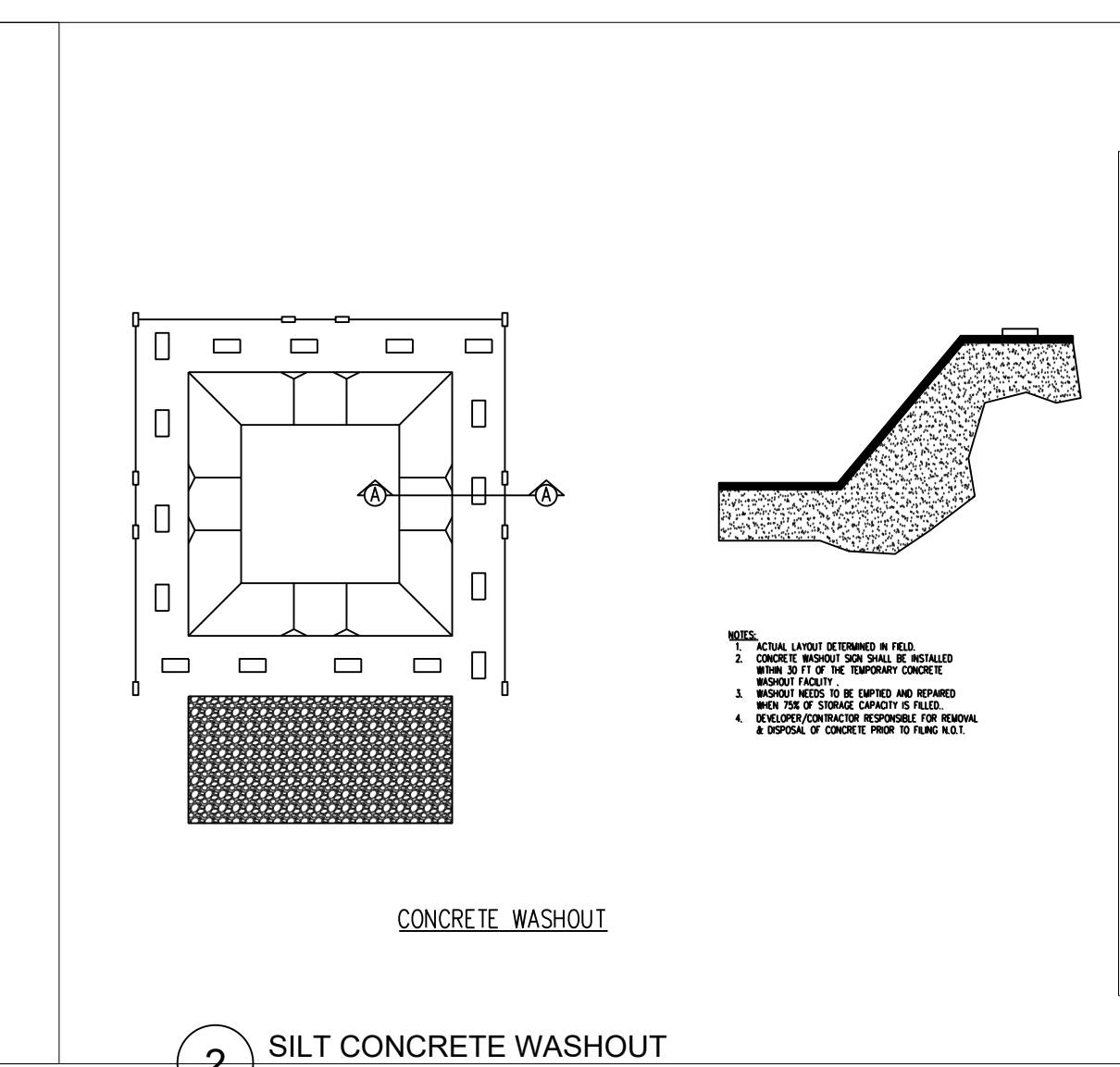
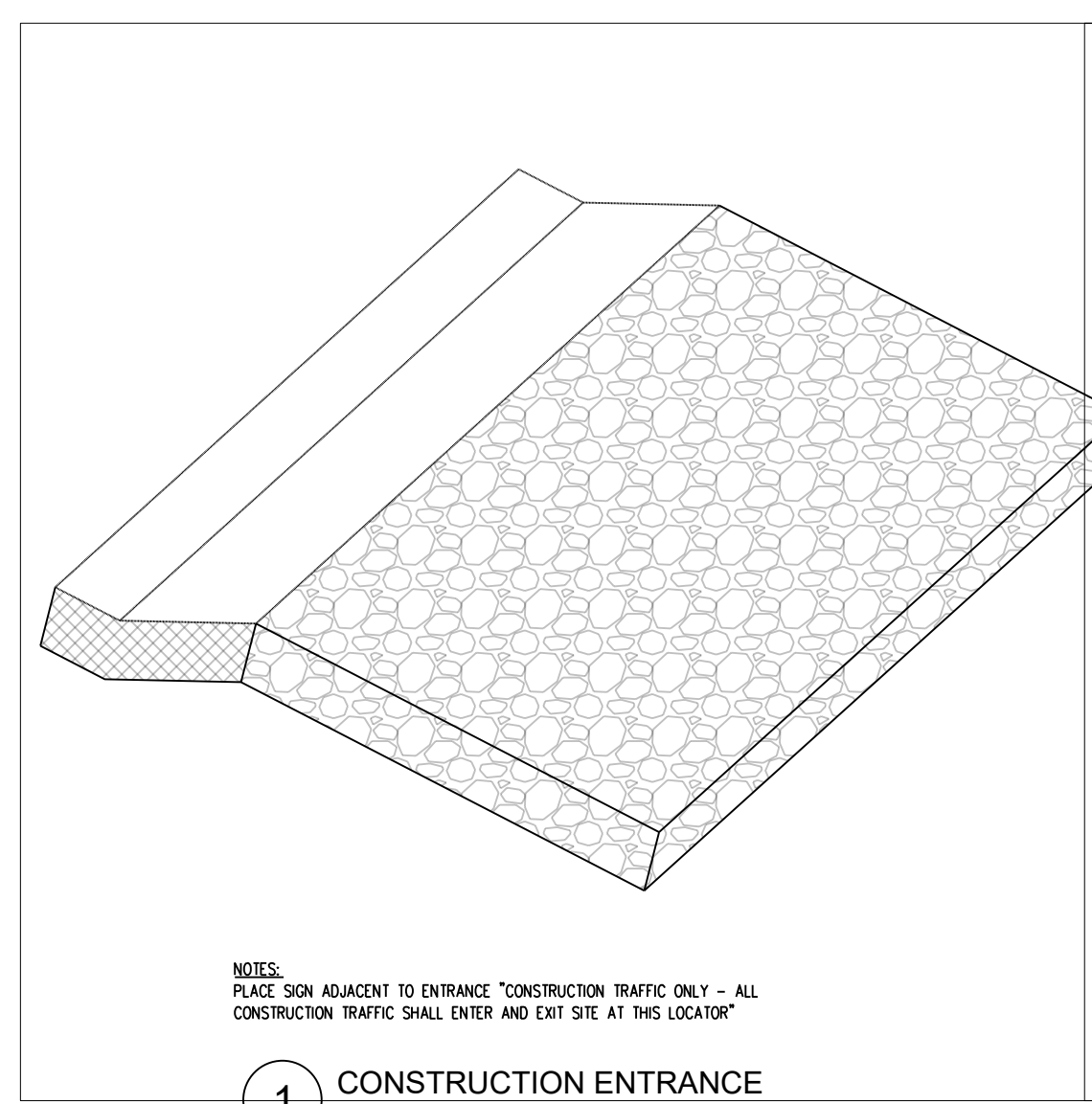
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SLC, UT 84106
isaac@recivil.com (801) 860-2191



RC AUTOMOTIVE SERVICE BAYS
4293 SOUTH STATE STREET
MURRAY CITY, UTAH, 84107

Know what's below. **811** before you dig.

BLUE STAKES OF UTAH
UTILITY NOTIFICATION CENTER, INC.
www.bluestakes.org
1-800-662-4111



- NOTES:
1. PLACE WATTLES IN GRAVEL BAGS TIGHT AGAINST CURB TO PREVENT SEDIMENT-LADEN WATER FROM GETTING BETWEEN CURB AND WATTLE/BAG.
 2. PLACE WATTLES OR GRAVEL BAGS SUCH THAT FLOW DOES NOT OVERTOP CURB OR ROAD CENTERLINE.
 3. INSPECT INLET PROTECTION AFTER EVERY LARGE STORM EVENT AND AT LEAST BI-MONTHLY OR PER SWPPP REQUIREMENTS, WHICHEVER IS MORE STRINGENT, TO ENSURE THAT SEDIMENT CONTROL IS MEETING ITS DESIGN INTENT. MAINTAIN AND/OR REPLACE AS NEEDED.
 4. REMOVE SEDIMENT ACCUMULATED WHEN IT REACHES SIDE OF GRAVEL BAG OR WATTLE HEIGHT.
 5. CONTRACTOR MAY SUBMIT AN ALTERNATE METHOD OF INLET PROTECTION. THE ALTERNATE METHOD SHALL BE APPROVED BY THE CITY INSPECTOR AND THE ENGINEER OF RECORD.
 6. BEFORE PLACEMENT OF CURB, STABILIZATION OF LAND BEHIND CURB AND/OR PARKING MAINTAIN TOP OF INLET AT 6" ABOVE GRADE, AND SURROUND WITH SILT FENCE FOR STABILIZATION. MAINTAIN SILT FENCE BEHIND BOX UNTIL LAND BEHIND CURB IS STABILIZED.

- NOTES:
1. EXCAVATE 6"x6" TRENCH ALONG LIMITS OF DISTURBANCE AS SHOWN ON CONSTRUCTION DRAWINGS.
 2. POSTS SHALL BE POSITIONED ON DOWNSTREAM SIDE OF FENCE.
 3. LAY TIE-IN FABRIC FLAT IN BOTTOM OF TRENCH. BACKFILL TRENCH WITH FREE DRAINING GRANULAR MATERIAL, COMPACT TRENCH TO SATISFACTION OF THE ENGINEER OF RECORD.
 4. SILT FENCE GEOTEXTILE SHALL MEET AASHTO M108-92 REQUIREMENTS.
 5. REMOVE & DISPOSE OF SEDIMENT WHEN ACCUMULATION IS 50% OF EXPOSED FENCE HEIGHT.
 6. 10' MAX SPACING BETWEEN STAKES.
 7. SILT FENCES SHALL BE INSTALLED ALONG CONTOURS, NOT UP AND DOWN SLOPES, WITH 10' OVERLAP AT BREAKS.

THE CONTRACTOR IS TO CALL BLUE STAKES PRIOR TO ANY CONSTRUCTION.

CAUTION: NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. IF A CONFLICT IS IDENTIFIED, THE ENGINEER OF RECORD SHOULD BE CONTACTED IMMEDIATELY, PRIOR TO ANY FURTHER WORK BEING DONE RELATED TO THE ISSUE. CONTRACTOR IS TO BEGIN CONSTRUCTION AT LOW SIDE OF ALL GRAVITY LINES.

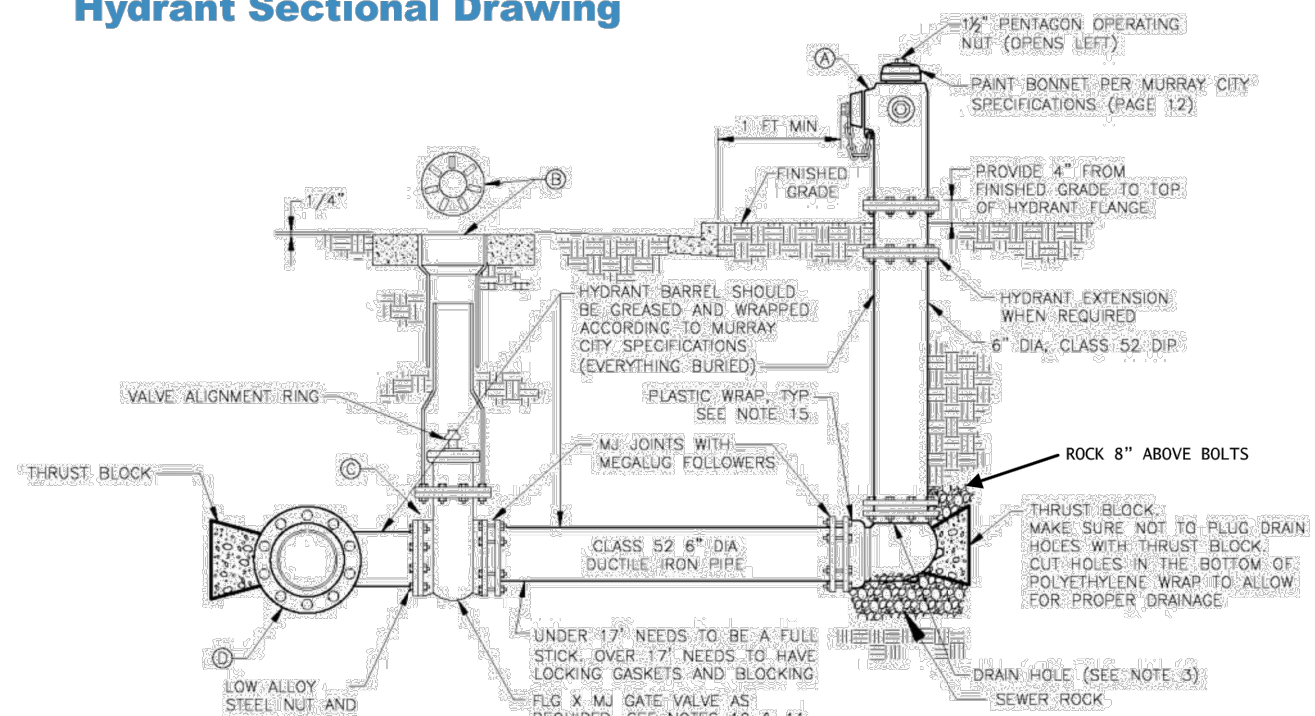
THE EXISTING CHANNEL (COTTONWOOD CREEK) EMBANKMENTS AND/OR RETAINING WALLS SHALL BE PRESERVED PER PRE-DEVELOPMENT CONDITIONS.

CLIENT/DEVELOPER CONTACT
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REV	COMMENT

SHEET NO.
C600
EROSION CONTROL PLAN

Hydrant Sectional Drawing



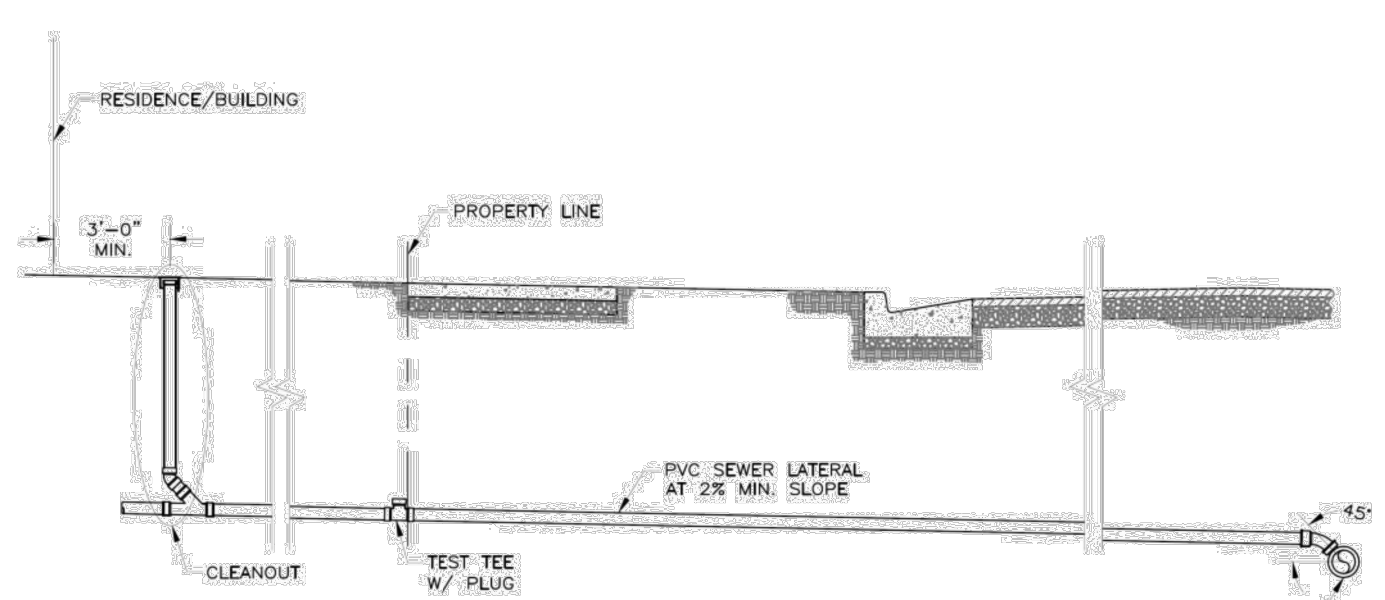
ITEM	DESCRIPTION	PART NUMBER	ITEM	DESCRIPTION	PART NUMBER
1	FRAMES OR W/ FIRE HYDRANT AS REQUIRED. PAINT BONNET PER MURRAY CITY SPECIFICATIONS.	MUELLER 8-423 OR SUPER CENTURION HYDRANT (MURRAY/CITY SPEC. DRIP BARREL)	2	FLANGE VALVE WITH 2" X 2" OPERATING NUT	MUELLER 8- RESILIENT SEAT GATE VALVE OF EQUAL
3	SLIDING ADJUSTABLE VALVE BOX WITH DROP LID WITH THE WORD "WATER" CAST INTO IT.	3/4" X 1/2" TEE WITH ACCESSORIES	4	MU X FLG. TEE AND/ANNA (110/AS1-10 W/ 125) FOUND FLANGE.	

SECTIONALS FOR HYDRANT PADS		
AREA	SIZE	CONCRETE MIN THICKNESS
OPEN AREA	4' x 4'	1 1/2" THICK - 4 1/2" RC (CLASS 4000)
CURB TO SIDEWALK	5' x 3'	1 1/2" THICK - 4 1/2" RC (CLASS 4000)

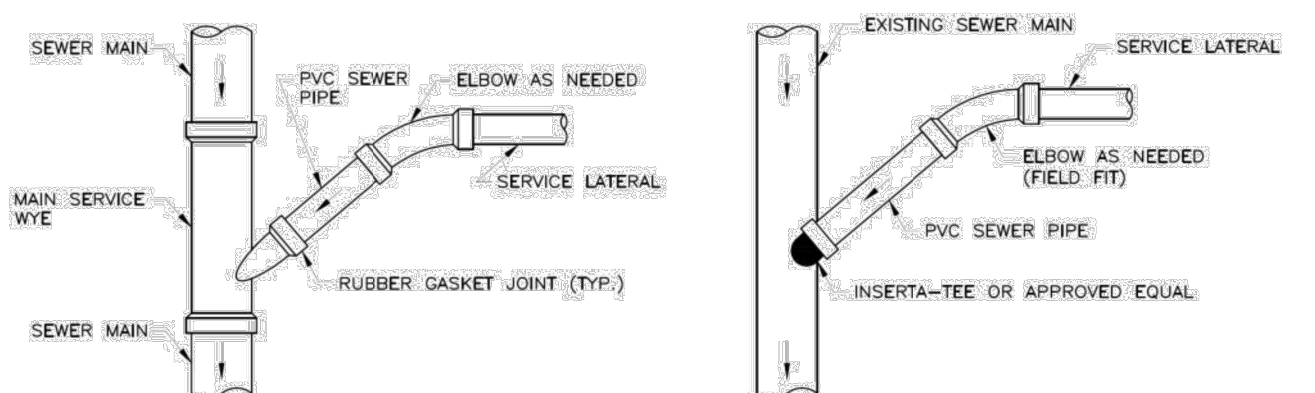
- NOTES:**
- ALL WORK MUST BE INSPECTED BY THE OWNER OR ENGINEER PRIOR TO BACKFILL.
 - HYDRANT THRUST BLOCK (REQUIRED WITH A MINIMUM OF 6.0 SQ. FEET BEARING ON UNDISTURBED SOIL).
 - DRAIN HOLES AT BASE OF HYDRANT TO REMAIN CLEAR WITH A MINIMUM OF 3/4" DIA. OF CLEAN 1/2" MINUS GRANEL PLACED AROUND HYDRANT BASE AND DRAIN GRADE SHALL BE WRAPPED IN GEOTEXTILE FABRIC TO PREVENT MIGRATION OF FINES.
 - "THE 4 1/2" STREAMER NOZZLE TO FACE THE STREET.
 - IF FIRE HYDRANTS SHALL BE INSTALLED IN SUCH A MANNER THAT THE HYDRANT FLANGE IS 4" ABOVE FINISHED GRADE.
 - CONTRACTOR SHALL PLACE AND MAINTAIN A BLACK PLASTIC BAG OVER NEW FIRE HYDRANTS UNTIL THEY ARE PLACED IN SERVICE.
 - HYDRANT SHALL BE PAINTED RED WITH SHERWIN WILLIAMS B-547 INDUSTRIAL ENAMEL OR EQUIV. BONNETS SHALL BE PAINTED ACCORDING TO THE MAIN SERVING THE HYDRANT AS FOLLOWS: 4" OR LESS = WHITE; 3" = RED; 2" AND 1 1/2" = ORANGE; 1 1/2" OR GREATER = GREEN.
 - STANDARD DRILLING - CAST FLANGES, ANS/ANNA (110) 125/AS1-10-125.
 - SUPPLY AND INSTALL SERIES 1100 MEGALOG JOINT RESTRAINTS OR APPROVED EQUAL AS REQUIRED ON ALL PIPE.
 - GATE VALVES TO BE IN ACCORDANCE WITH ANNA (C500) WHERE THE DISTANCE BETWEEN THE MAIN AND HYDRANT IS GREATER THAN 17'. TWO GATE VALVES SHALL BE REQUIRED (ONE ON MAIN, AND ONE AT HYDRANT).
 - ALL BURIED FITTINGS AND BOLTS TO BE COATED WITH CHEMICAL FMU GREASE #1 OR EQUAL AND WRAPPED WITH 1 MIL SHEET POLYETHYLENE.
 - ALL DUCTILE IRON PIPE TO BE IN ACCORDANCE WITH ANS/ANNA (C115/AS1-15 CLASS 52).
 - SUBSTITUTIONS TO BE IN ACCORDANCE WITH ANNA SEC. 01-26.05.
 - ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH ANS/ANNA (C502) AND THE FINAL GENERAL CONDITIONS AND STANDARD SPECIFICATIONS FOR CONSTRUCTION.
 - PRIOR TO POURING CONCRETE, WRAP PIPE SYSTEM WITH 8 MIL THICK PLASTIC SHEET TO PREVENT BONDING OF CONCRETE TO PIPE SYSTEM. CUT HOLES IN PLASTIC AROUND DRAIN HOLES ON HYDRANT.

1 MURRAY CITY WATER SPECIFICATION PG 8 - FIRE HYDRANT
SCALE: NONE

Typical Sewer Lateral and Cleanout



TYPICAL SEWER LATERAL

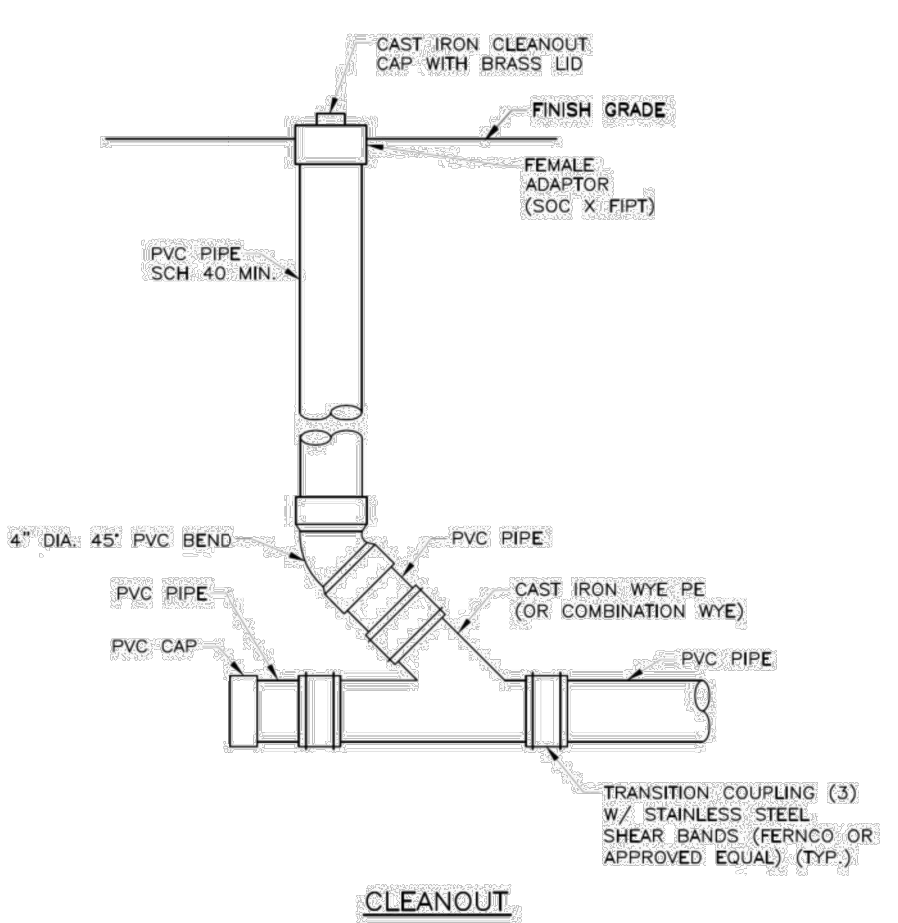


SERVICE CONNECTION TO NEW MAIN SERVICE CONNECTION TO EXISTING MAIN

- NOTES:**
- SERVICE LATERAL SHALL BE 4" OR 6" AS SHOWN ON PLANS OR AS DIRECTED BY CITY.
 - SEWER LATERALS SHALL CONNECT TO SEWER MAIN AT 45° ANGLE.

2 MURRAY CITY WASTEWATER SPECIFICATION PG 11 - SEWER LATERAL
SCALE: NONE

Typical Sewer Lateral and Cleanout (Cont..)

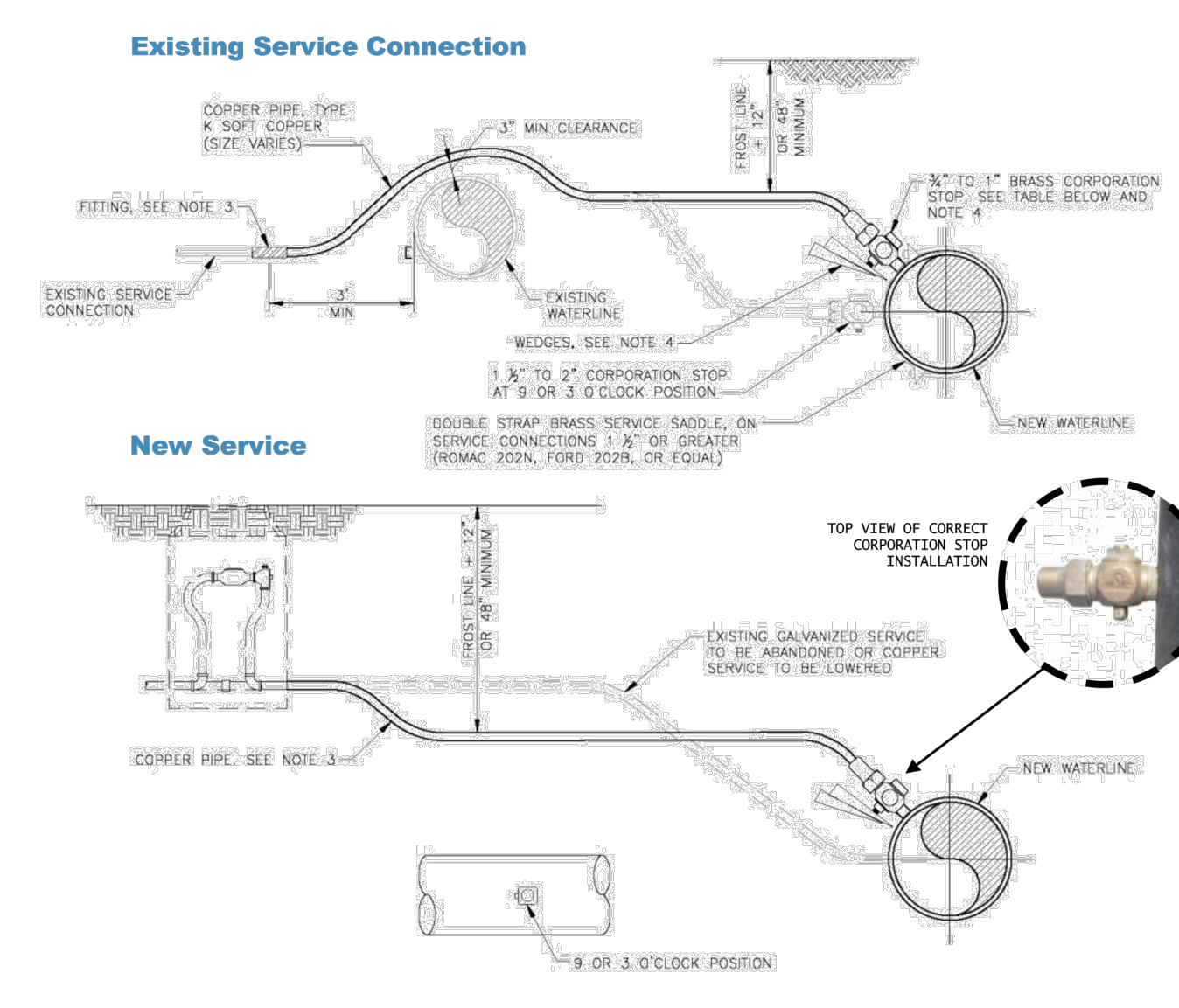


CLEANOUT

- NOTES:**
- SIZE OF PIPING AS SHOWN ON DRAWINGS OR AS DETERMINED BY CITY.

3 MURRAY CITY WASTEWATER SPECIFICATION PG 12 - CLEANOUT
SCALE: NONE

Water Service Taps

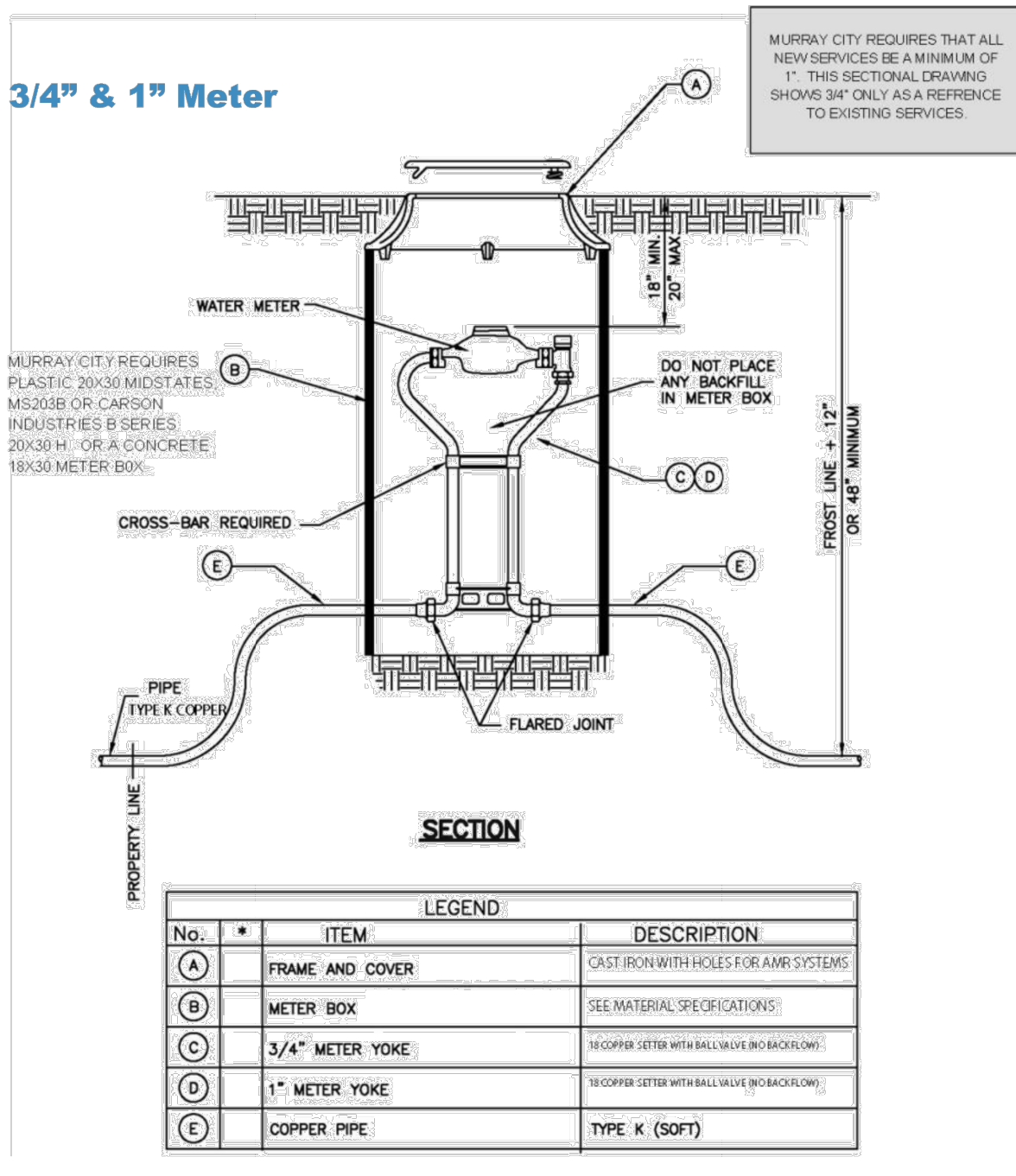


- NOTES:**
- FOR EXISTING COPPER SERVICES, DETACH EXISTING SERVICE CONNECTION, EXTEND (USING COPPER SERVICE OF EQUAL SIZE) OR SHORTEN AS NECESSARY, AND RECONNECT TO NEW WATER MAIN, UNLESS NOTED OTHERWISE.
 - FOR EXISTING GALVANIZED SERVICES, REPLACE EXISTING SERVICE WITH COPPER SERVICE OF EQUAL SIZE. REPLACE BETWEEN EXISTING WATER AND NEW WATER MAIN, INCLUDING REPLACEMENT OF METER YOKES AND BOX, UNLESS NOTED OTHERWISE.
 - USE COPPER TO COPPER FLARE FITTINGS.
 - CONTRACTOR SHALL ROTATE CORPORATION STOP SO THAT VALVE ACTUATOR RUNS PARALLEL WITH PIPE AT THE 9 OR 3 O'CLOCK POSITION. REDWOOD OR PRESSURE TREATED WOOD SHIMS SHALL BE PLACED UNDER CORPORATION STOP TO PREVENT SUPPORT BEING BACKLASHED.
 - ALL NEW SERVICES SHALL BE A MINIMUM OF 1 1/2" (3/4" CONNECTIONS SHALL ONLY BE USED FOR RECONNECTED SERVICES).

4 MURRAY CITY WATER SPECIFICATION - WATER LATERAL
SCALE: NONE

Meter Box Installation

- All meters are to be installed in the park strip or within 5 feet of the property line (street side).
- Do not install meter boxes under driveway approaches, sidewalks, in parking lots, or under curb and gutter. Box should be placed in a landscaped area.
- The box shall be set so that the grade of the frame and the cover matches the grade of the surrounding surface.
- Concrete meter boxes with larger lids may be deemed necessary by Murray City personnel in a situation where the meter must be placed in an asphalt, concrete or other high traffic area.

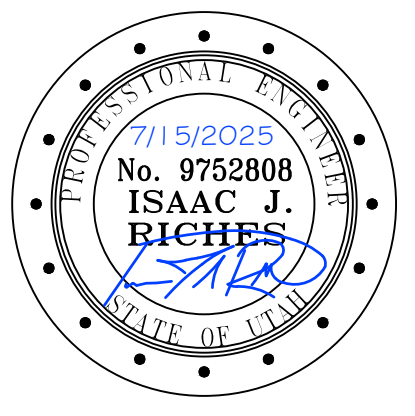


SECTION

No.	ITEM	DESCRIPTION
A	FRAME AND COVER	CAST IRON WITH HOLES FOR AWW SYSTEMS
B	METER BOX	SEE MATERIAL SPECIFICATIONS
C	3/4" METER YOKE	3/4" COPPER SETTER WITH BALL VALVE (NO BACKFLOW)
D	1" METER YOKE	1" COPPER SETTER WITH BALL VALVE (NO BACKFLOW)
E	COPPER PIPE	TYPE K (SOFT)

5 MURRAY CITY WATER SPECIFICATION - WATER METER
SCALE: NONE

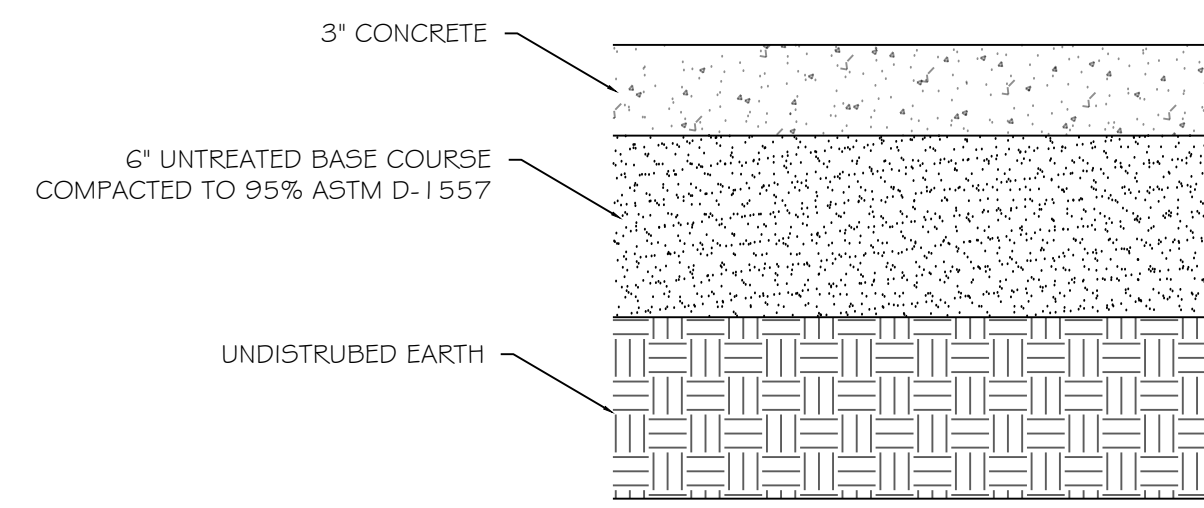
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isaac@rcivil.com (801) 860-2191



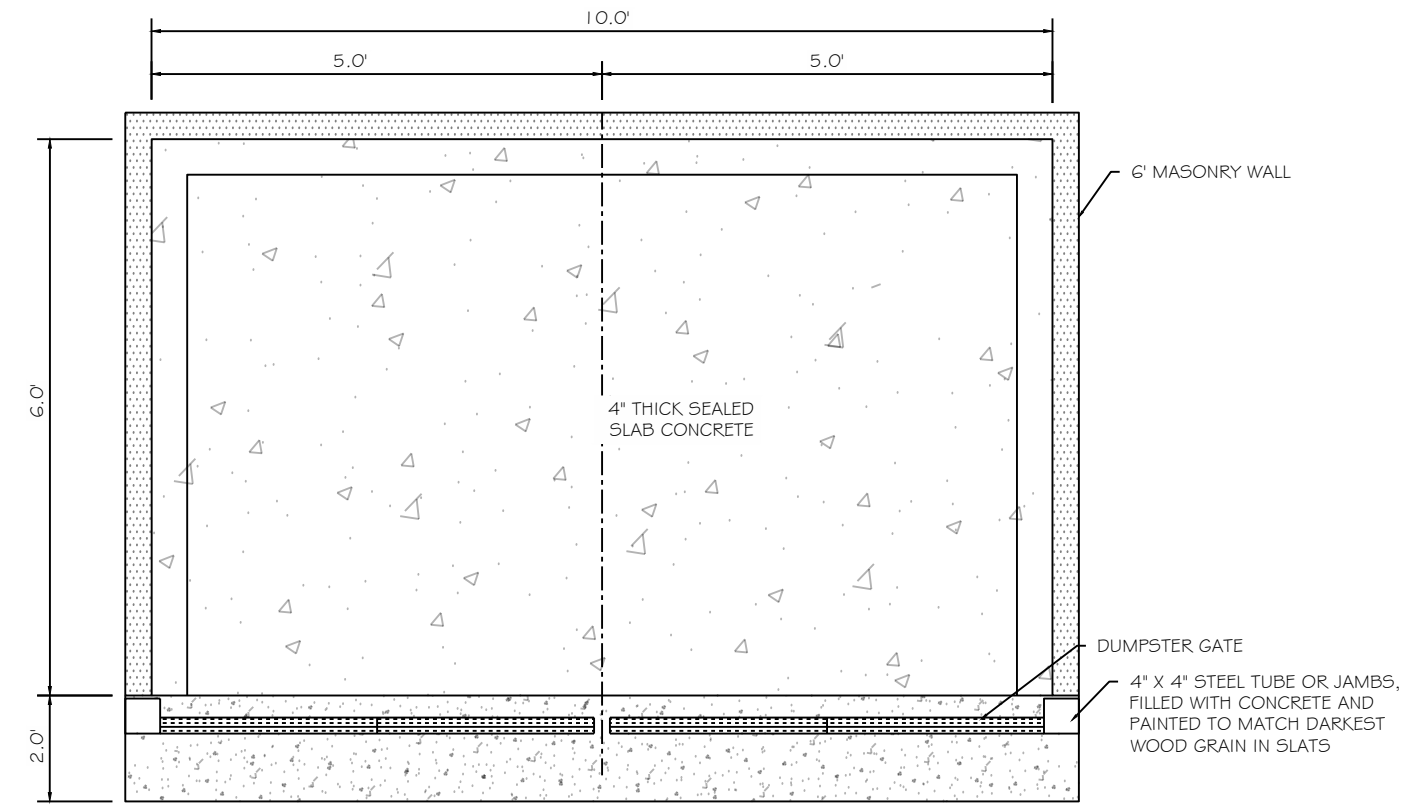
RC AUTOMOTIVE SERVICE BAYS
4293 SOUTH STATE STREET
MURRAY CITY, UTAH, 84107

CLIENT/DEVELOPER CONTACT
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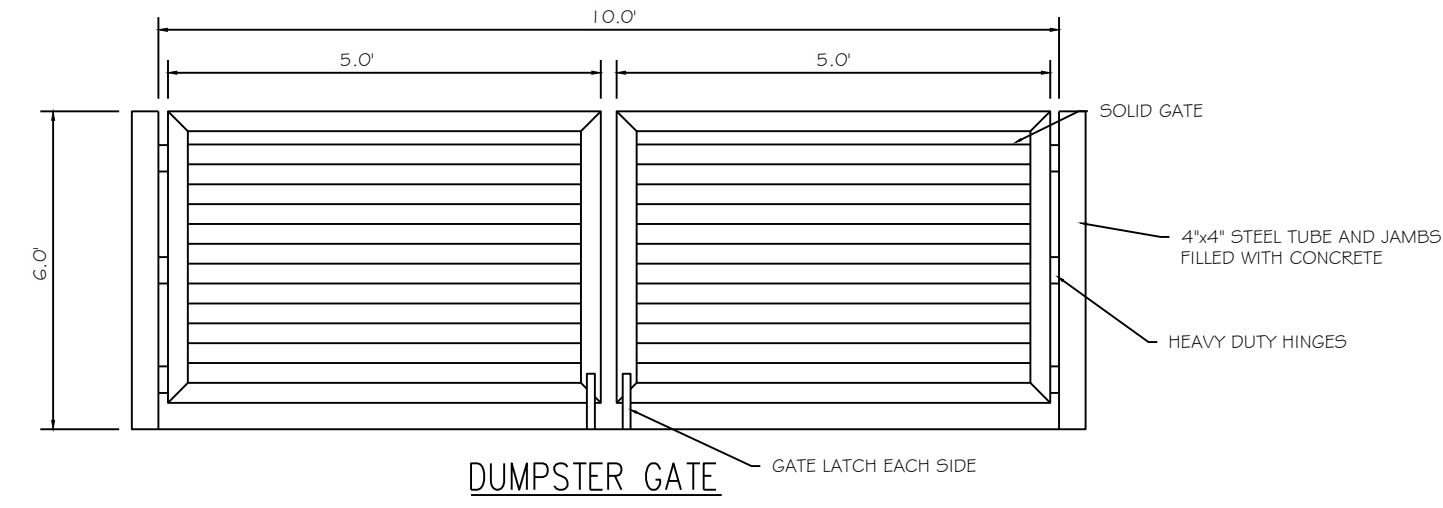
REV	COMMENT



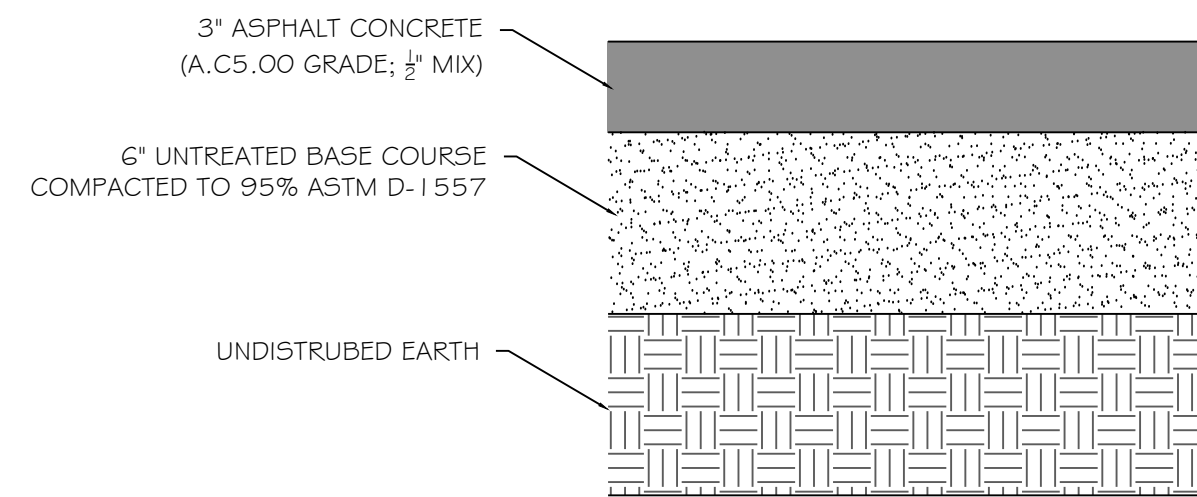
1 CONCRETE DETAIL
SCALE: NONE



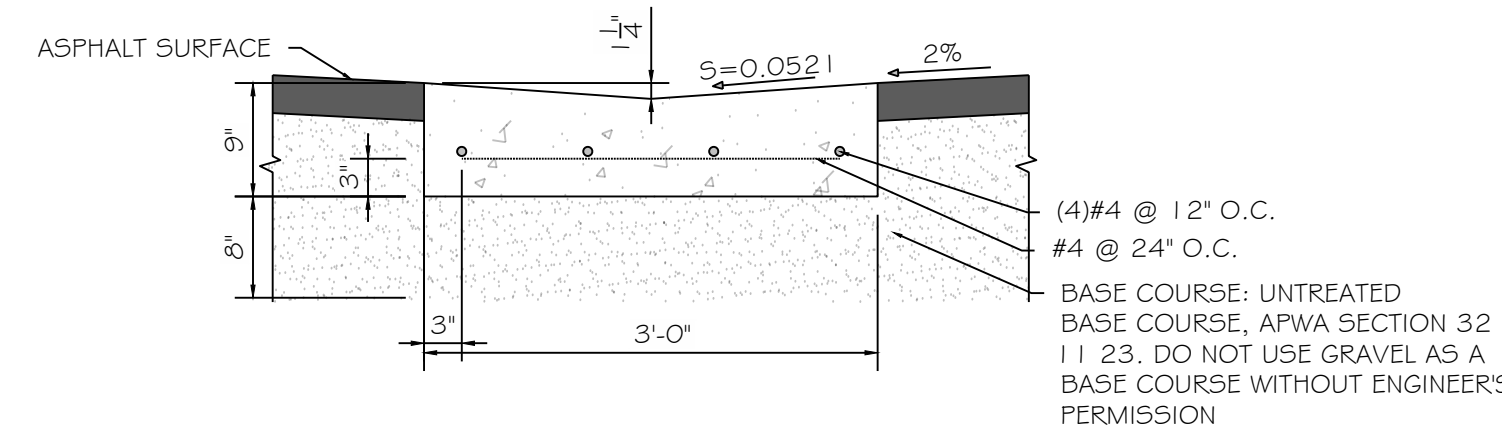
DUMPSTER ENCLOSURE PLAN



2 DUMPSTER PAD DETAIL
SCALE: NONE

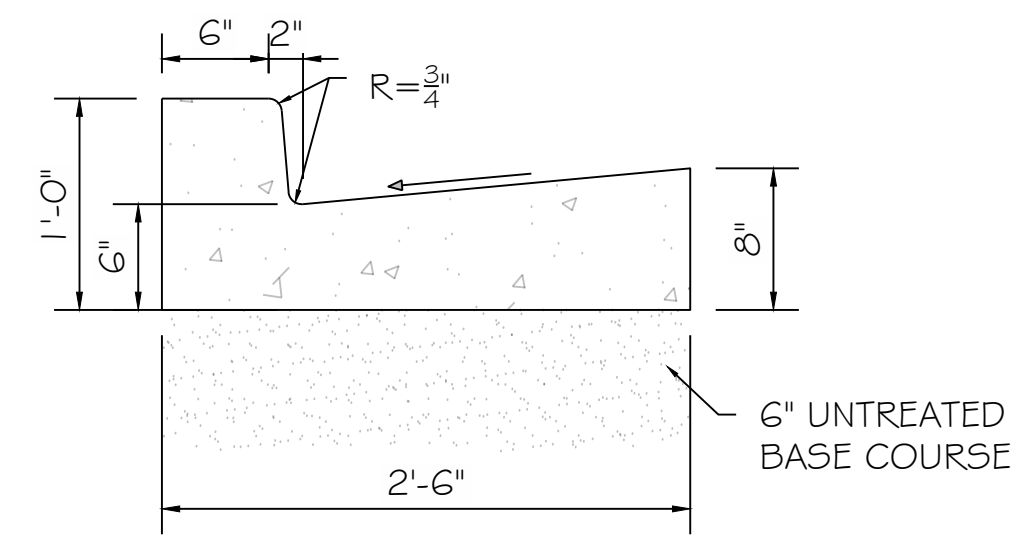


5 ASPHALT DETAIL
SCALE: NONE



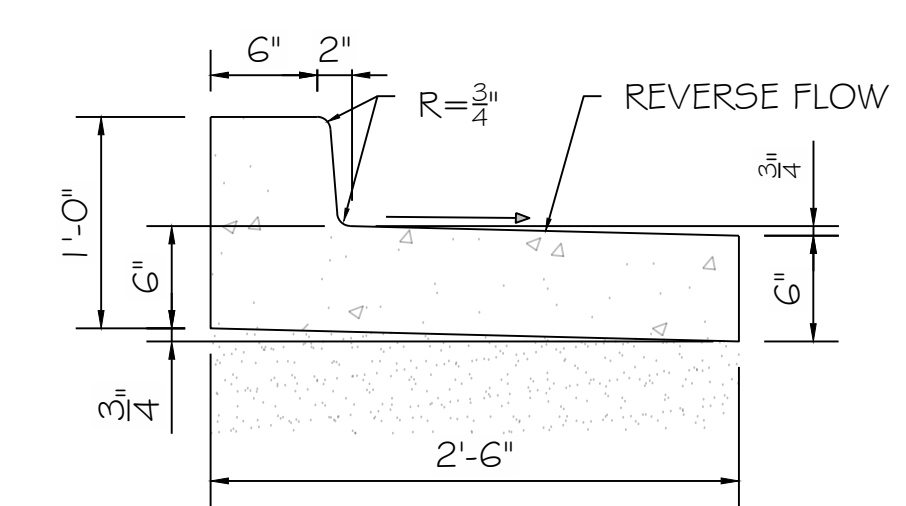
6 4" CONCRETE WATRWAY DETAIL
SCALE: NONE

NOTE:
• CONSTRUCT PER NOTES AND SPECIFICATIONS ASSOCIATED WITH APWA PLAN NO. 211
• CONCRETE AREA = 2.094 SQ. FT.



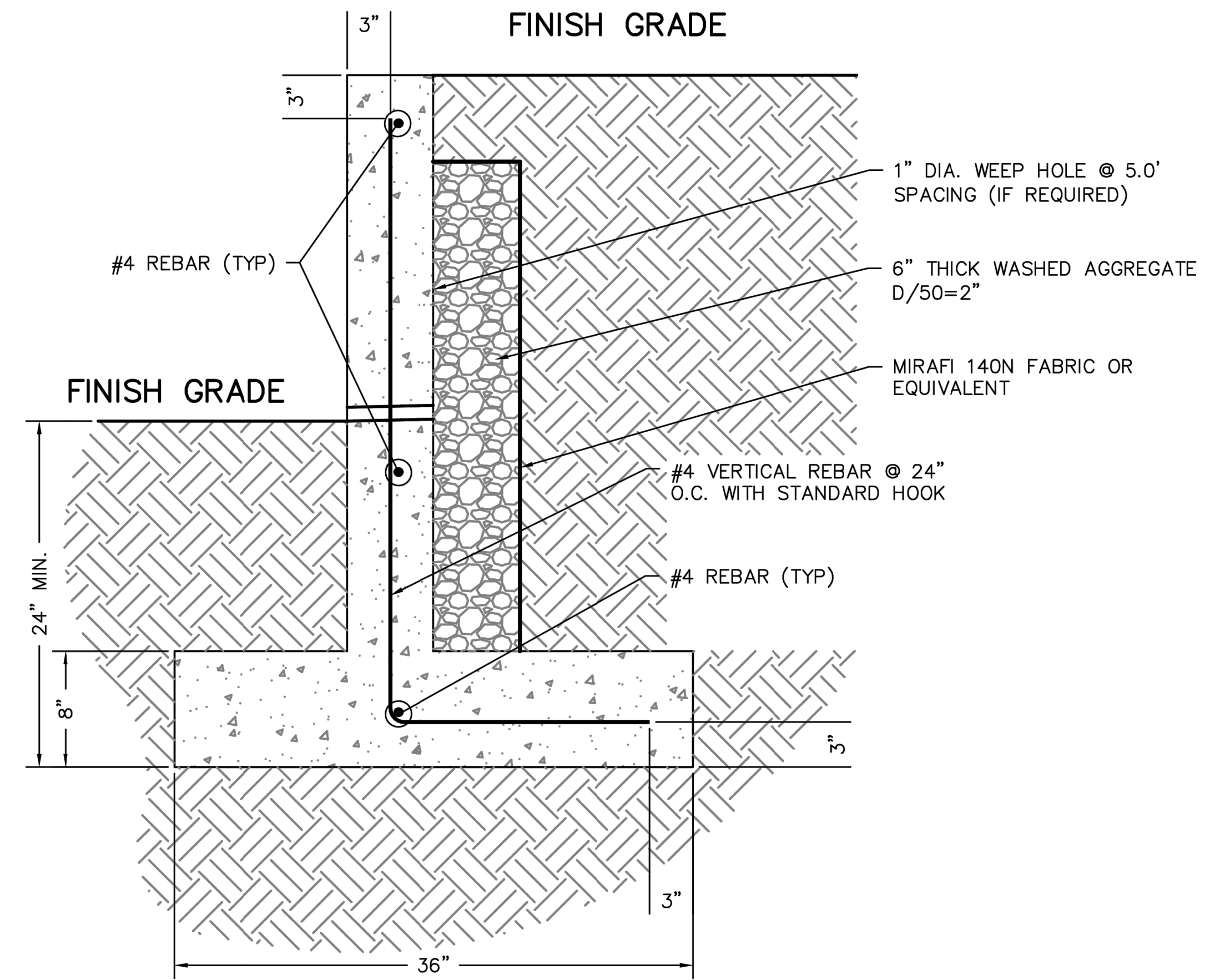
3 2.5" CATCH CURB & GUTTER DETAIL
SCALE: NONE

NOTE:
• CONSTRUCT PER NOTES AND SPECIFICATIONS ASSOCIATED WITH APWA PLAN NO. 205
• CONCRETE AREA = 1.698 SQ. FT.



4 2.5" RELEASE CURB & GUTTER DETAIL
SCALE: NONE

NOTE:
• CONSTRUCT PER NOTES AND SPECIFICATIONS ASSOCIATED WITH APWA PLAN NO. 205
• CONCRETE AREA = 1.546 SQ. FT.



CONCRETE WALL NOTES:

1. COMPLY WITH CURRENT UNIFORM BUILDING CODE AND STANDARDS.
2. PLACE FOOTING ON UNDISTURBED SOILS OR FILL COMPACTED TO 96% MAXIMUM DRY DENSITY (ASTM D698).
3. MAXIMUM WALL HEIGHT SHALL BE 4'-0" AT ANY LOCATION AS MEASURED FROM BOTTOM OF FOOTING.
4. BACKFILL SOILS SHOULD BE PLACED IN LOOSE LIFTS NOT EXCEEDING A THICKNESS OF 12 INCHES, MOISTURE CONDITIONED TO WITHIN 2% OF OPTIMUM, AND COMPACTED TO A MINIMUM 90% OF THE MAXIMUM DRY DENSITY.

REINFORCING STEEL NOTES:

1. REINFORCING STEEL SHALL BE 60 GRADE.
2. STAGGER HORIZONTAL BAR LAP SPLICE LOCATIONS.
3. TERMINATE ALL REINFORCING STEEL WITH STANDARD HOOKS.
4. ALTERNATE STANDARD HOOKS IN FOOTING.
5. LAP SPLICE 48 BAR DIAMETERS IN WALLS.
6. SECURE ALL REINFORCING STEEL FROM DISPLACEMENT PRIOR TO CONCRETE PLACEMENT.

7 RETAINING WALL
SCALE: NONE



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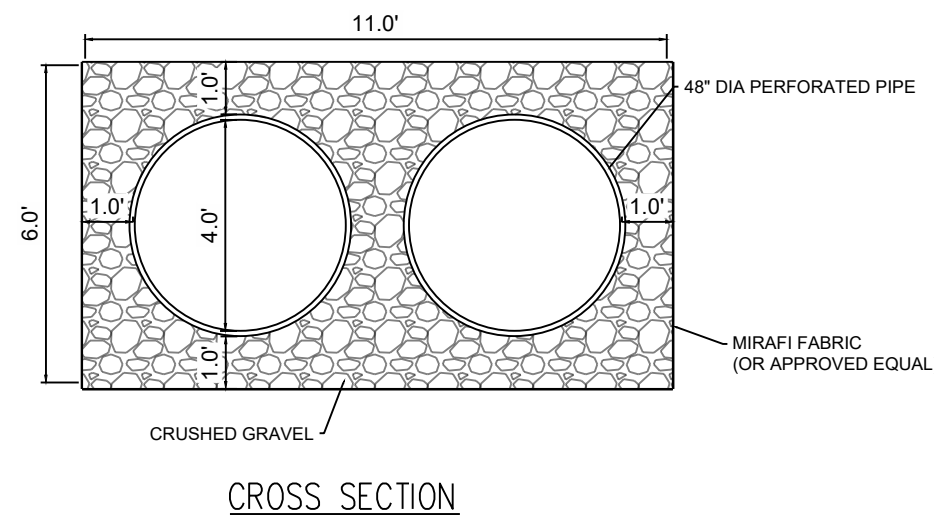
CLIENT/DEVELOPER CONTACT
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EMAIL: BROWN.CBADVISORS@GMAIL.COM

REV	COMMENT

SHEET NO.

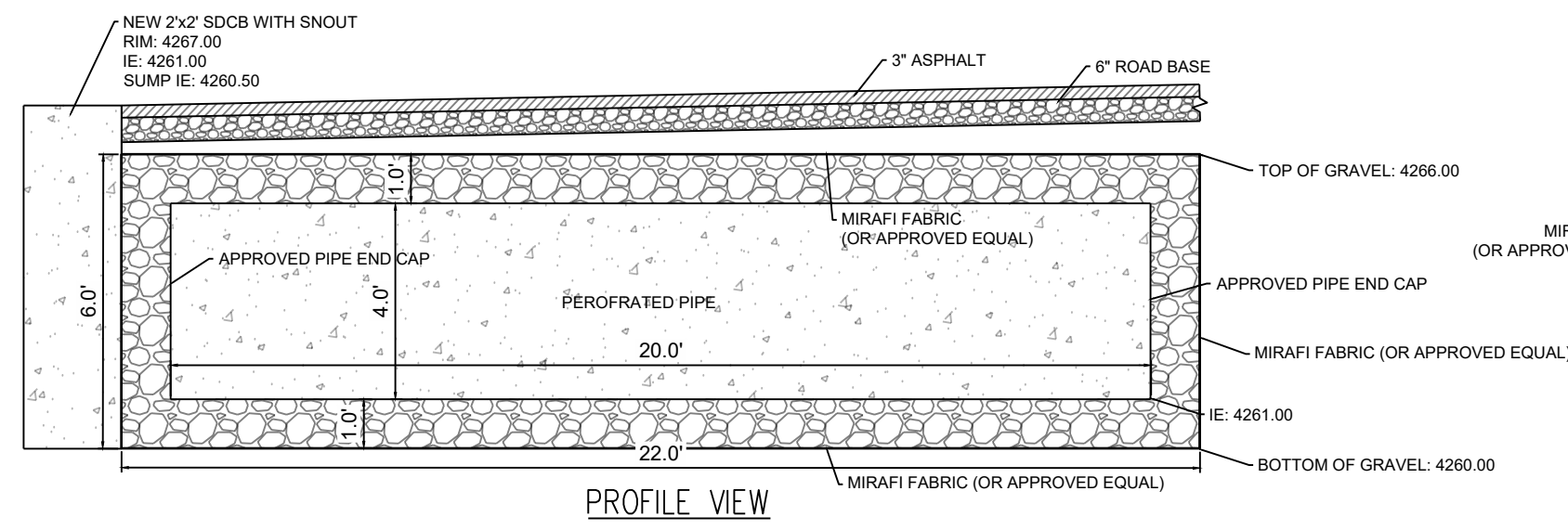
C701

DETAILS



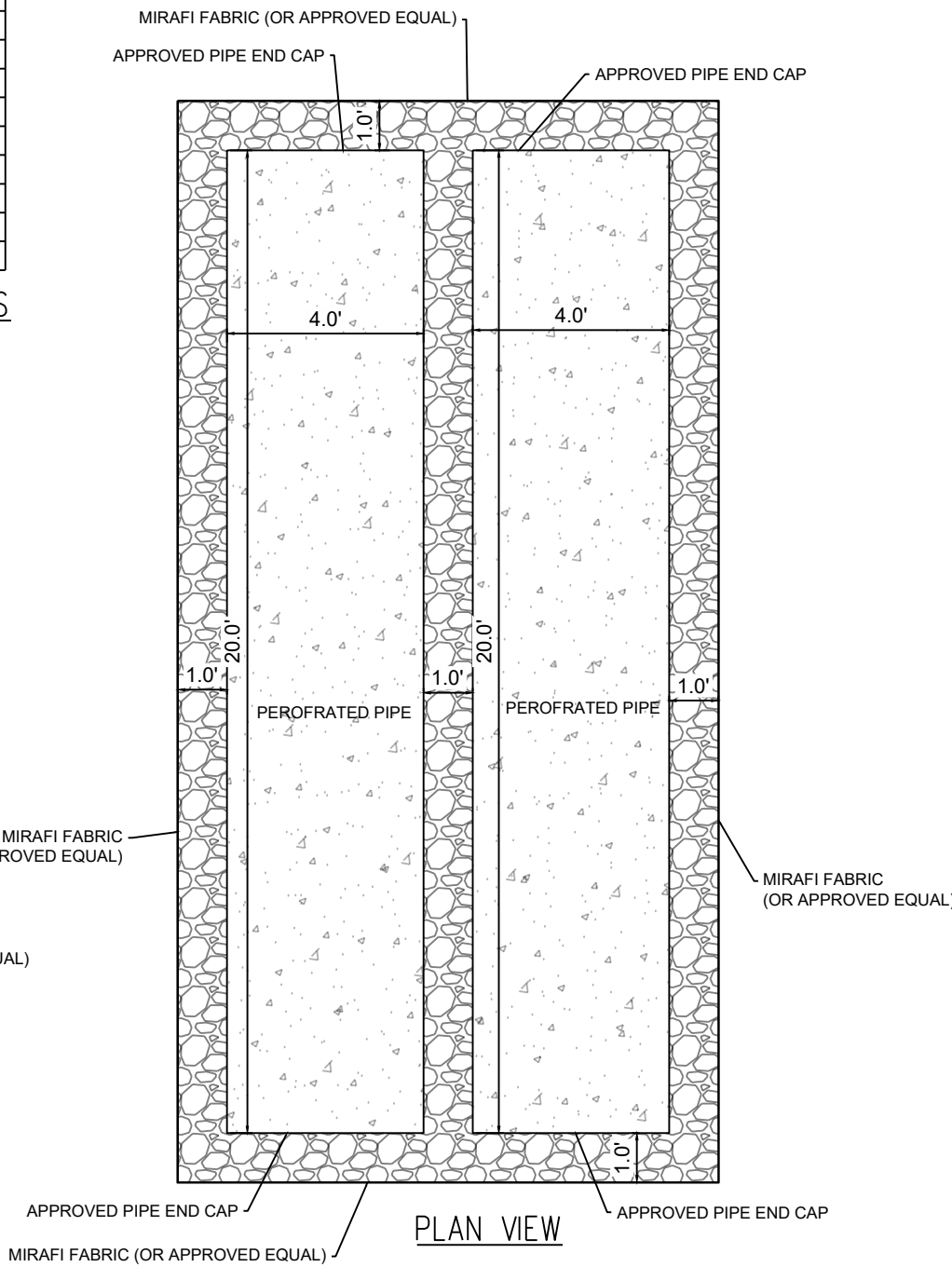
PIPE VOLUME	
Pipe Dia	4.00 ft
Pipe Area	12.57 ft ²
Pipe Length	20.00 ft
Pipe Volume	251.33 ft ³
# of Pipes	2
Total Pipe Vol	502.65 ft ³
Gravel Volume	362.65 ft ³
Gravel Width	11.00 ft
Gravel Length	22.00 ft
Gravel Depth	6.00 ft
Gravel Volume	1452.00 ft ³
Gravel Porosity	40%
Gravel minus Pipe	3200.67 ft ³
Gravel Volume after Porosity	480.23 ft ³
Total System Volume	982.92 ft ³

VOLUME CALCULATIONS



PROFILE VIEW

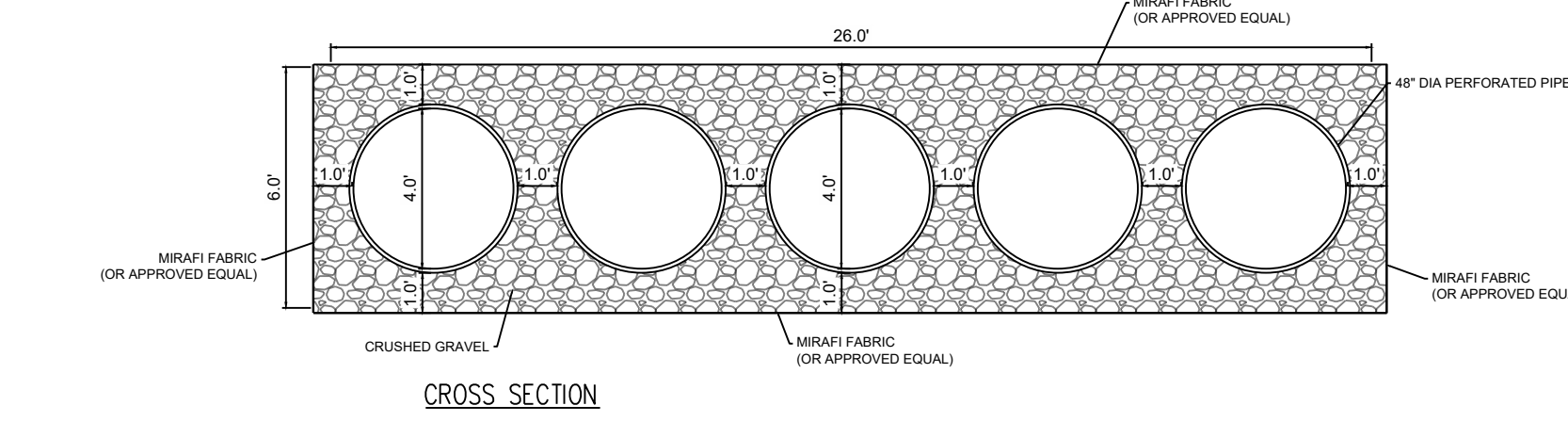
** ALTERNATIVE DESIGN MAY BE SUBMITTED FOR APPROVAL



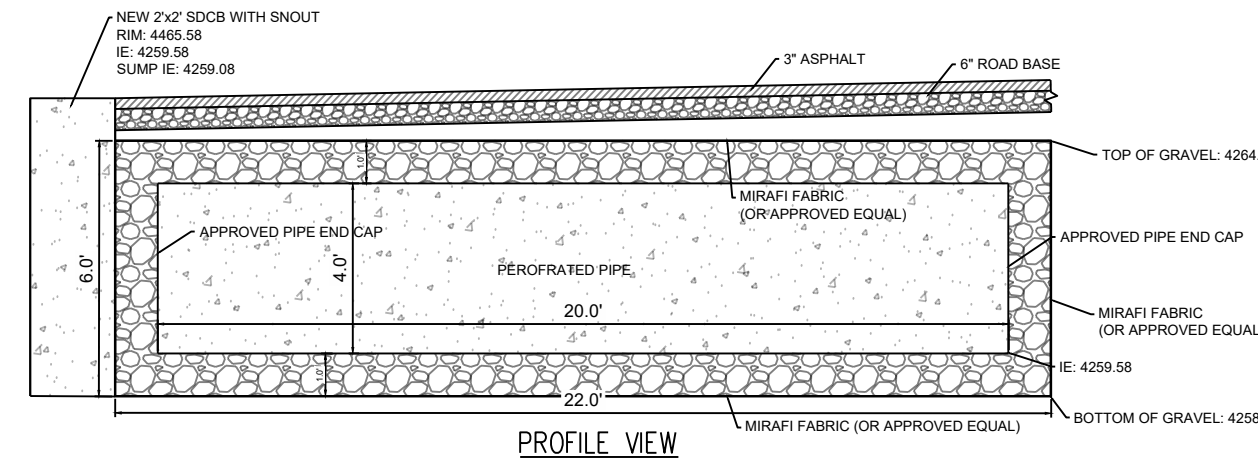
PLAN VIEW

1 STORAGE BASIN 1 DETAILS

SCALE: NONE



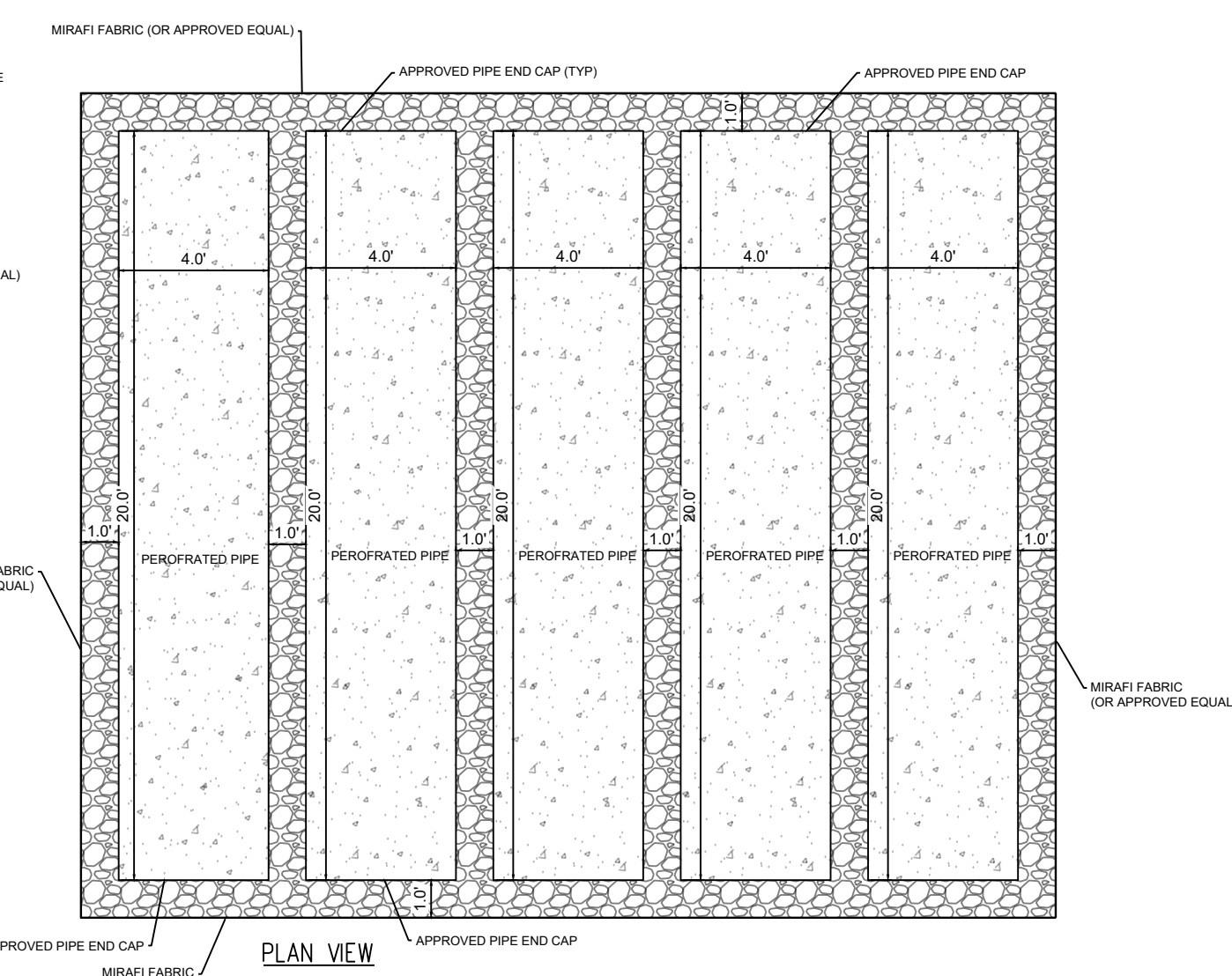
CROSS SECTION



PROFILE VIEW

PIPE VOLUME	
Pipe Dia	4.00 ft
Pipe Area	12.57 ft ²
Pipe Length	20.00 ft
Pipe Volume	251.33 ft ³
# of Pipes	4
Total Pipe Vol	1005.32 ft ³
Gravel Volume	724.32 ft ³
Gravel Width	28.00 ft
Gravel Length	22.00 ft
Gravel Depth	6.00 ft
Gravel Volume	2820.00 ft ³
Gravel Porosity	40%
Gravel minus Pipe	2568.68 ft ³
Gravel Volume after Porosity	370.30 ft ³
Total System Volume	1375.62 ft ³

VOLUME CALCULATIONS

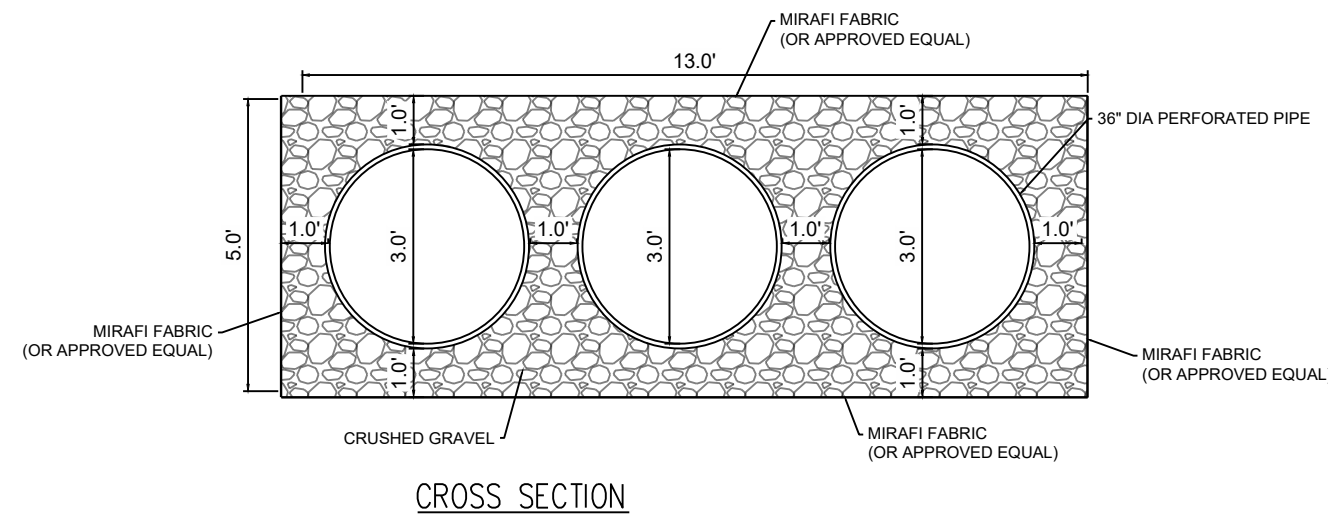


PLAN VIEW

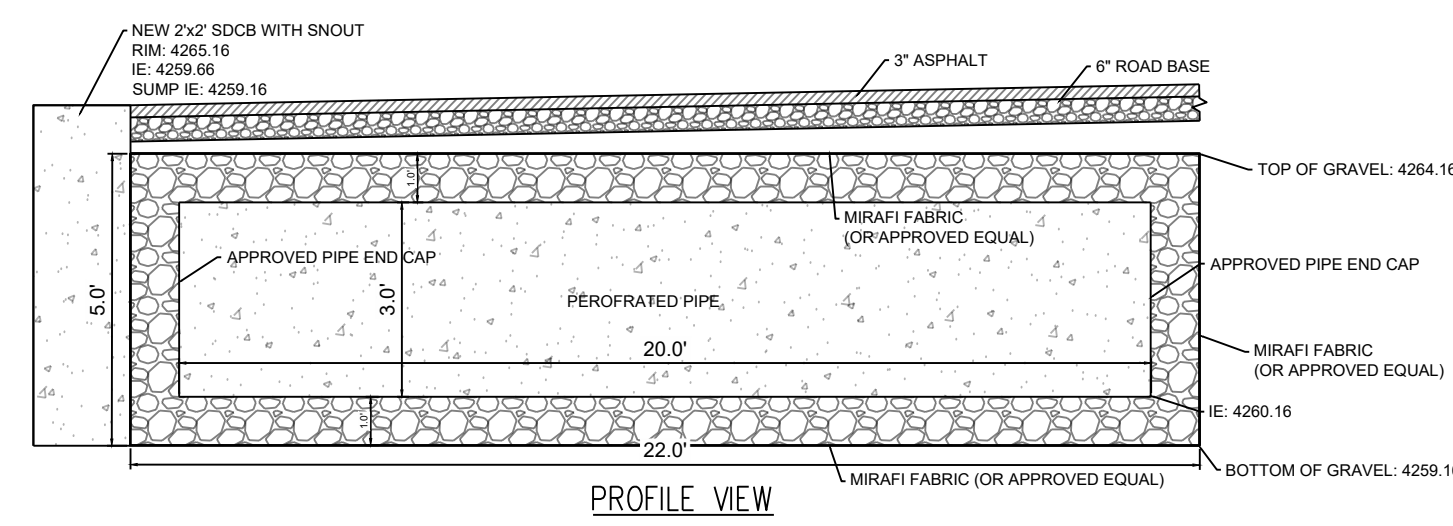
** ALTERNATIVE DESIGN MAY BE SUBMITTED FOR APPROVAL

2 STORAGE BASIN 2 DETAILS

SCALE: NONE



CROSS SECTION

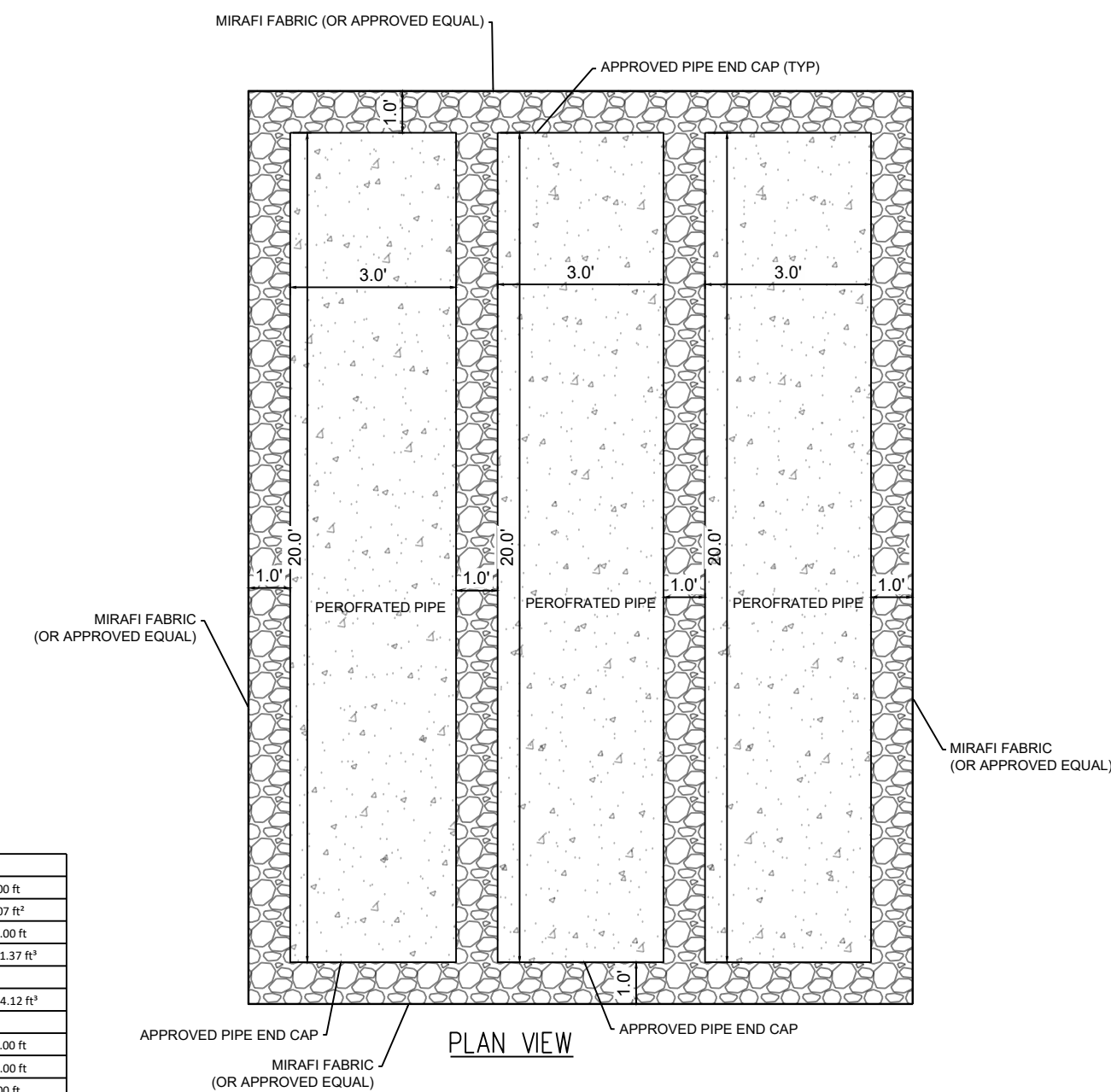


PROFILE VIEW

** ALTERNATIVE DESIGN MAY BE SUBMITTED FOR APPROVAL

PIPE VOLUME	
Pipe Dia	3.00 ft
Pipe Area	7.07 ft ²
Pipe Length	20.00 ft
Pipe Volume	141.37 ft ³
# of Pipes	3
Total Pipe Vol	424.12 ft ³
Gravel Volume	23.00 ft ³
Gravel Length	23.00 ft
Gravel Depth	5.00 ft
Gravel Volume	583.00 ft ³
Gravel Porosity	40%
Gravel minus Pipe	1238.88 ft ³
Gravel Volume after Porosity	511.43 ft ³
Total System Volume	935.55 ft ³

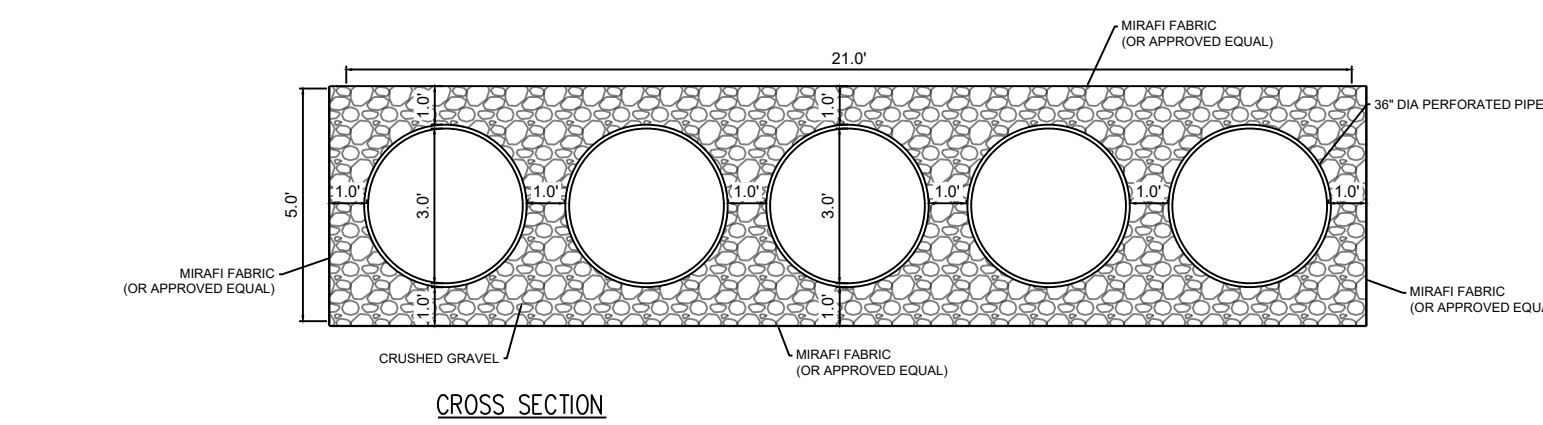
VOLUME CALCULATIONS



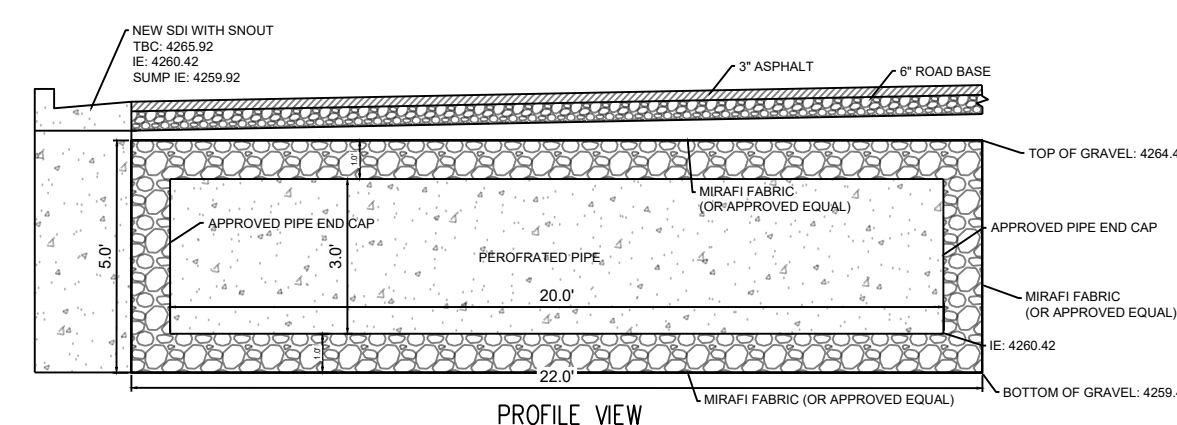
PLAN VIEW

3 STORAGE BASIN 3 DETAILS

SCALE: NONE



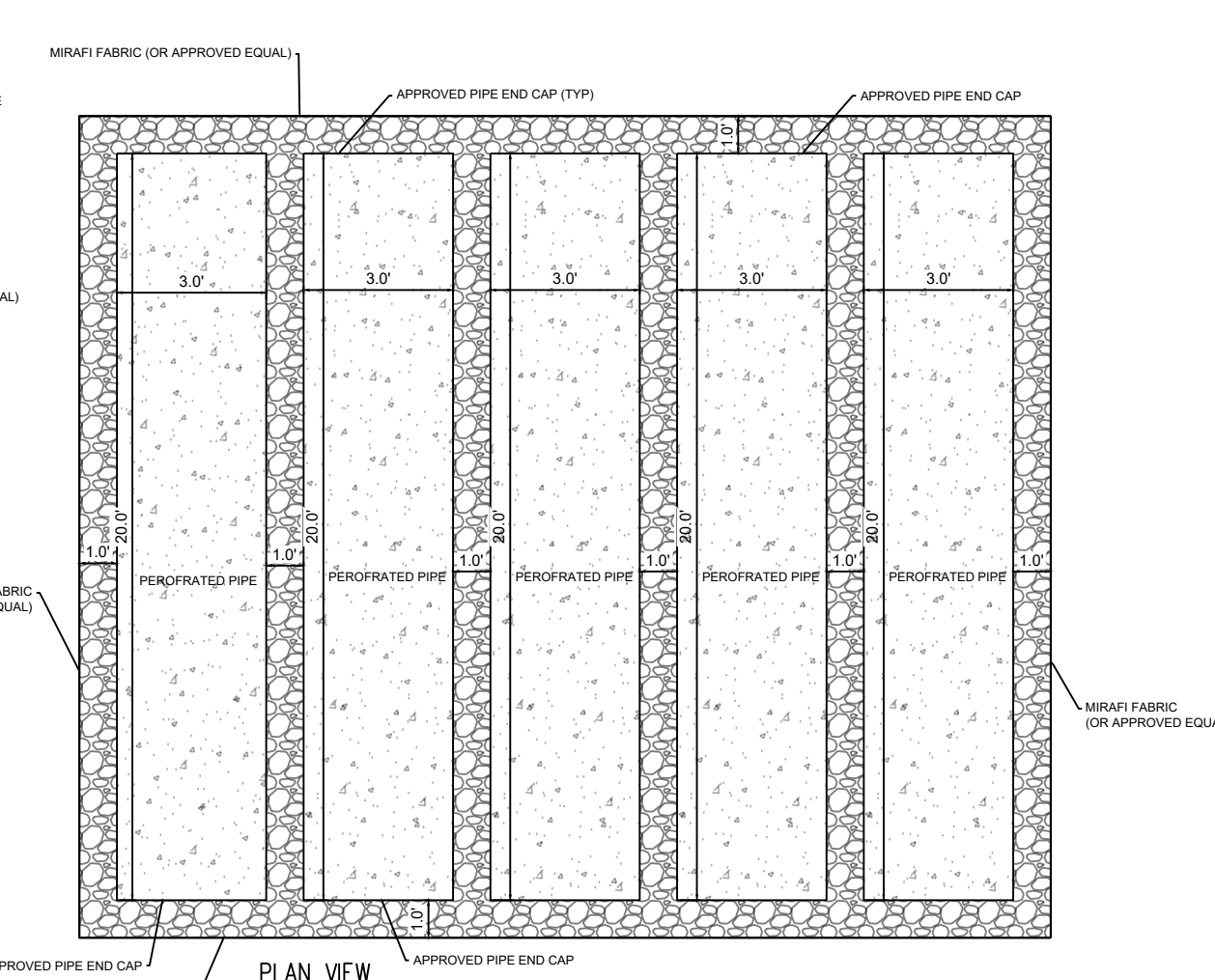
CROSS SECTION



PROFILE VIEW

PIPE VOLUME	
Pipe Dia	3.00 ft
Pipe Area	7.07 ft ²
Pipe Length	20.00 ft
Pipe Volume	141.37 ft ³
# of Pipes	4
Total Pipe Vol	565.48 ft ³
Gravel Volume	23.00 ft ³
Gravel Length	23.00 ft
Gravel Depth	5.00 ft
Gravel Volume	1238.88 ft ³
Gravel Porosity	40%
Gravel minus Pipe	677.40 ft ³
Gravel Volume after Porosity	254.52 ft ³
Total System Volume	820.00 ft ³

VOLUME CALCULATIONS



PLAN VIEW

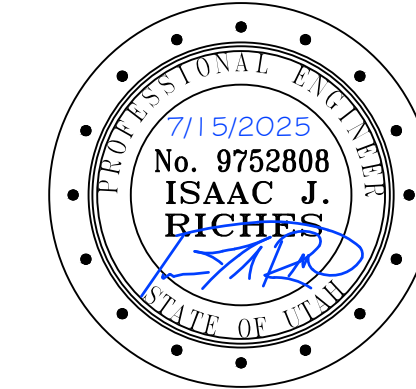
** ALTERNATIVE DESIGN MAY BE SUBMITTED FOR APPROVAL

4 STORAGE BASIN 4 DETAILS

SCALE: NONE



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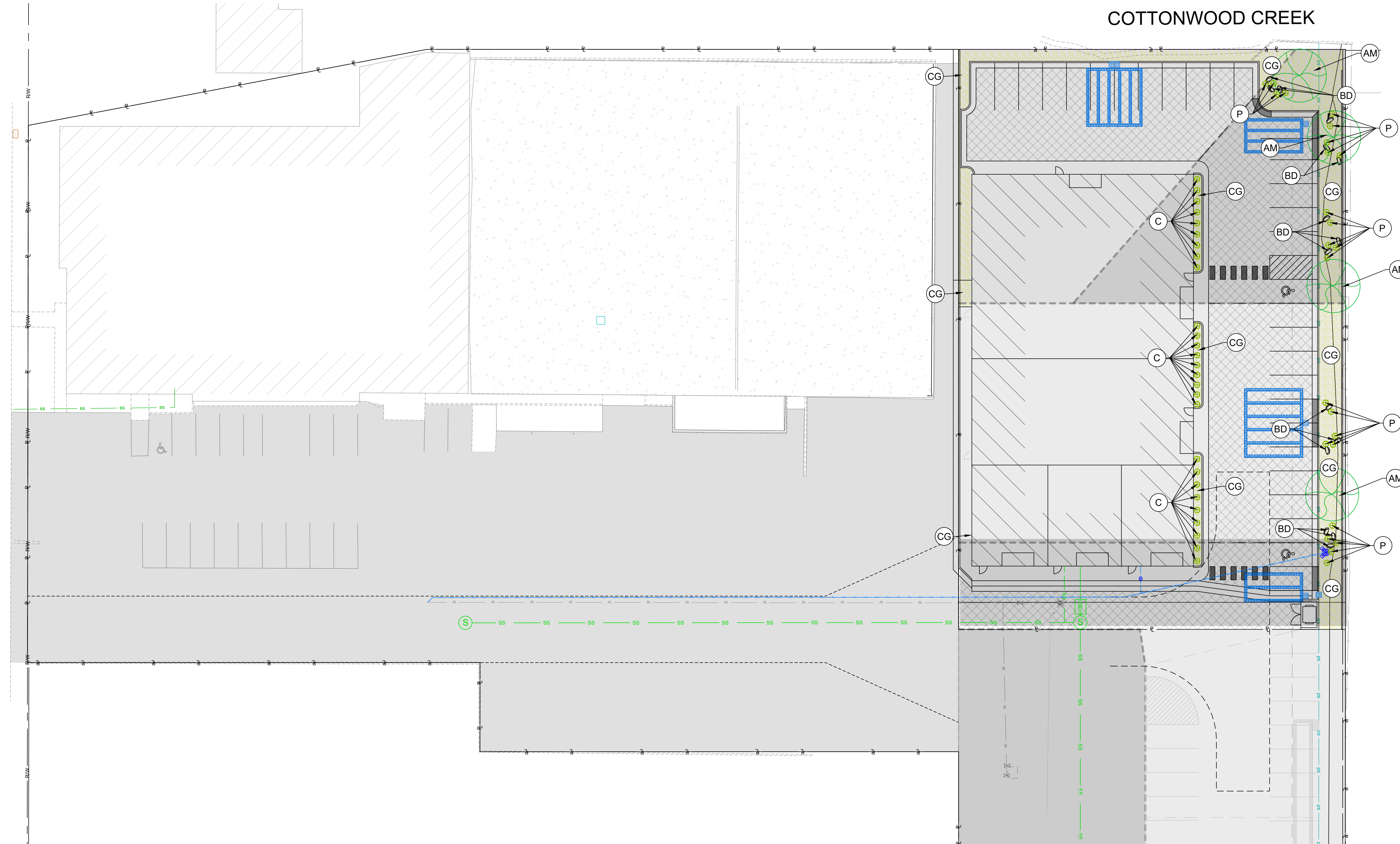
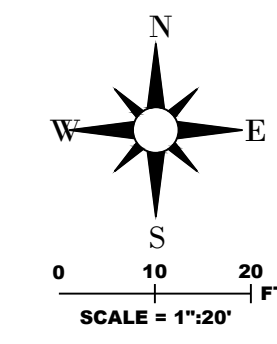
REV	COMMENT

SHEET NO.

C702
UG STORAGE
DETAILS

STATE STREET

COTTONWOOD CREEK



PLANT LEGEND

Perennials and Grasses

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	H	W
P	34	Pennisetum Alopecuroides 'Hamlen'	Dwarf Fountain Grass	2 gal	3'-0"	2'-0"
C	27	Calamagrostis x Acutiflora 'Karl Foerster'	Karl Foerster Grass	2 gal	5'-0"	3'-0"

Trees

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	H	W
AM	4	Amelanchier laevis 'JFS-Arg' Spring Flurry	Serviceberry Tree	2" Cal	28'-0"	20'-0"

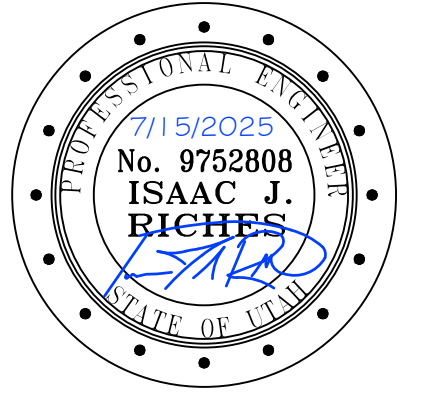
Hardscape

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	H	W
BD	14		Landscape Boulder		2'-3"	4'-6"
CG	822 FT ³		2"-3" Cobble Rock			

NOTE: CONTRACTOR TO COMPARE QUANTITIES ON THIS LEGEND WITH THOSE ON THE PLAN BEFORE ORDERING. PLANT QUANTITIES ON PLAN GOVERN.



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REV	COMMENT

SHEET NO.

LA100

LANDSCAPE PLAN