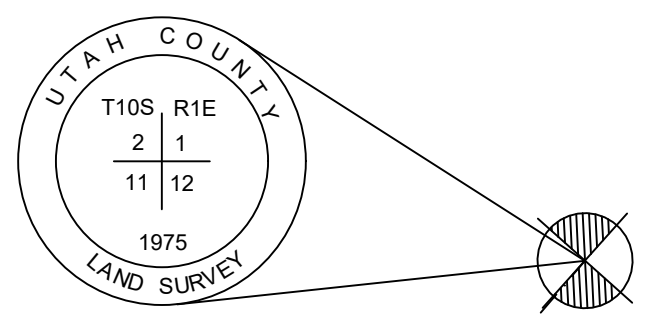
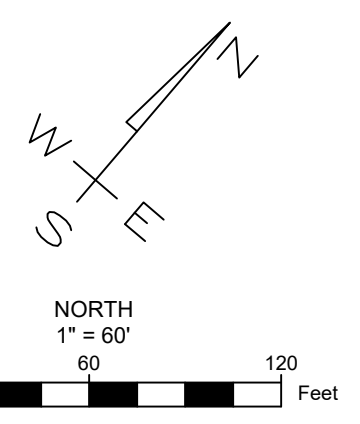


VICINITY MAP (NTS)

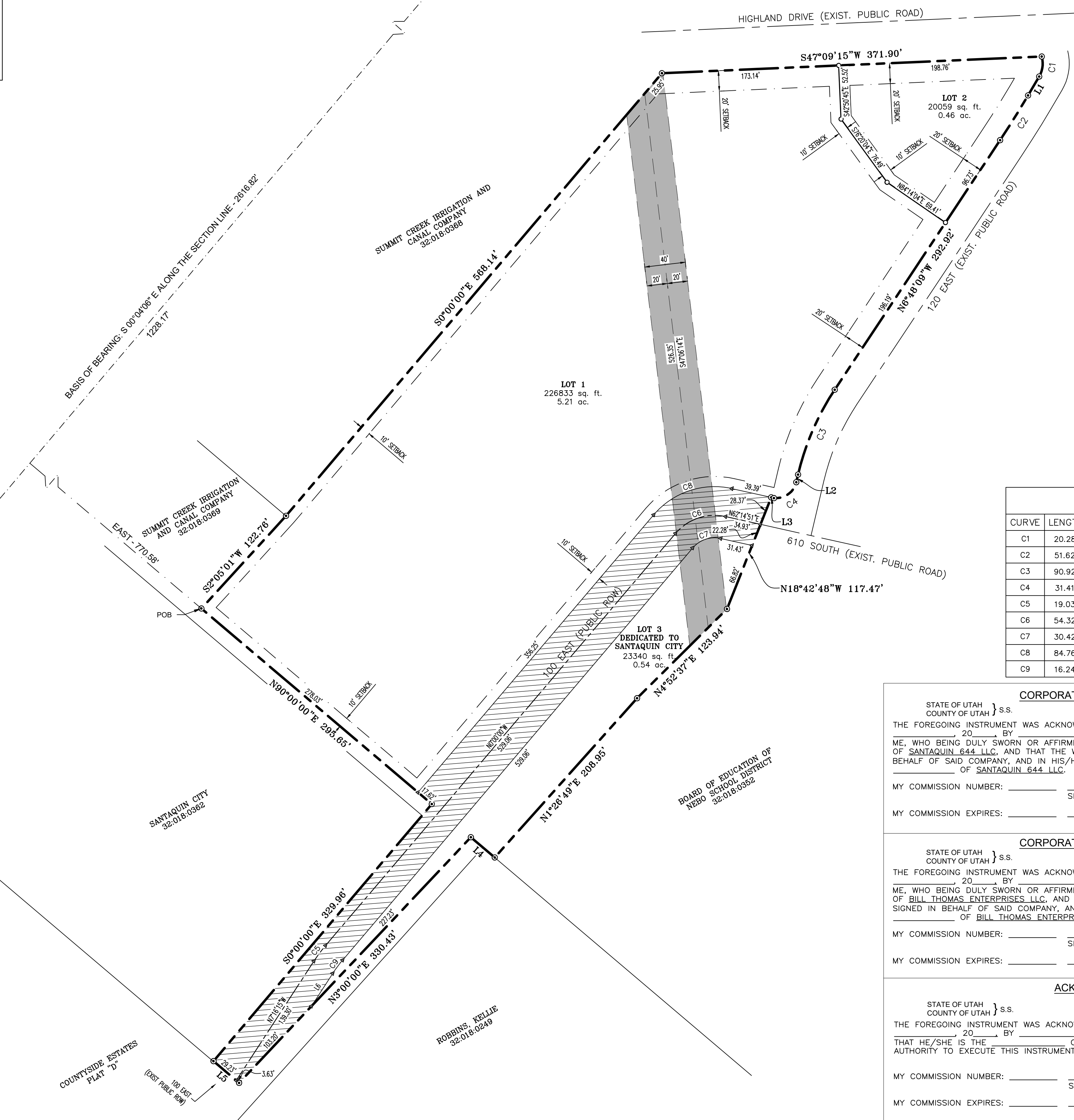
# CITADEL SANTAQUIN STORAGE

## UNITS PLAT "A"

SITUATE IN THE NORTHWEST QUARTER OF SECTION 12, TOWNSHIP 10 SOUTH, RANGE 1 EAST, SALT LAKE BASE & MERIDIAN, SANTAQUIN, UTAH COUNTY, UTAH



- LEGEND**
- ⊙ SUBDIVISION PROPERTY CORNER
  - LOT CORNER (REBAR & CAP ON REAR CORNERS, MAG NAIL & WASHER SET IN CURB ON FRONT CORNERS)
  - △ CALCULATED POINT (NOT SET)
  - ⊕ SECTION CORNER MONUMENT (NTS)
  - PROPERTY LINE
  - LOT LINE
  - ▨ PUBLIC ROAD ROW TO BE DEDICATED TO SALEM CITY, 3.20 ACRES (139,575 SQ. FT.)
  - ▩ A 40' IRRIGATION EASEMENT, 20' PARALLEL EACH SIDE OF THE DESCRIBED CENTERLINE



**LINE TABLE**

LINE	LENGTH	DIRECTION
L1	21.43'	N9°50'42"W
L2	7.71'	N27°08'55"W
L3	0.49'	N62°44'27"E
L4	30.64'	N90°00'00"E
L5	32.86'	S89°59'34"E
L6	38.22'	N7°16'15"W

**CURVE TABLE**

CURVE	LENGTH	RADIUS	CHORD DIST.	CHORD BRG.	DELTA
C1	20.28'	25.00'	19.73'	N3°05'30"W	46°29'00"
C2	51.62'	969.63'	51.61'	N8°19'25"W	3°03'00"
C3	90.92'	255.98'	90.44'	N16°58'37"W	20°21'00"
C4	31.41'	20.00'	28.28'	N17°51'00"E	89°59'00"
C5	19.03'	150.00'	19.02'	N3°38'07"W	7°16'15"
C6	54.32'	50.00'	51.69'	N31°07'25"E	62°14'51"
C7	30.42'	28.00'	28.95'	N31°07'25"E	62°14'51"
C8	84.76'	78.02'	80.66'	N31°07'25"E	62°14'51"
C9	16.24'	128.00'	16.23'	N3°38'07"W	7°16'15"

**SURVEYOR'S CERTIFICATE**

I, JAXON THOMAS BROWN DO HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR, AND THAT I HOLD LICENSE NO. 13513878 IN ACCORDANCE WITH TITLE 58, CHAPTER 22 OF THE PROFESSIONAL ENGINEERS AND LAND SURVEYORS LICENSING ACT, UTAH CODE ANNOTATED, 1953 AS AMENDED. I FURTHER CERTIFY BY AUTHORITY OF THE OWNERS, I HAVE MADE A SURVEY OF THE TRACT OF LAND SHOWN ON THIS PLAT AND DESCRIBED BELOW IN ACCORDANCE WITH SECTION 17-23-17, AND HAVE SUBDIVIDED SAID TRACT OF LAND INTO LOTS, BLOCKS, STREETS, AND EASEMENTS AND THE SAME HAS BEEN CORRECTLY SURVEYED AND STAKED ON THE GROUND AS SHOWN ON THIS PLAT AND THAT THIS PLAT IS TRUE AND CORRECT.

**BOUNDARY DESCRIPTION**

A PARCEL OF LAND SITUATE IN THE NORTHWEST QUARTER OF SECTION 12, TOWNSHIP 10 SOUTH, RANGE 1 EAST, SALT LAKE BASE & MERIDIAN, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

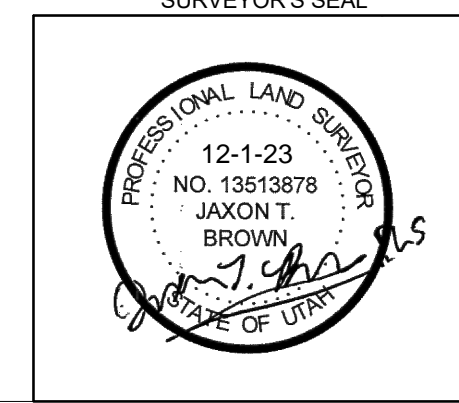
BEGINNING AT A POINT LOCATED 1228.17' S 00°04'06" E ALONG THE SECTION LINE AND 770.58 FEET EAST FROM THE NORTHWEST CORNER OF SAID SECTION 12, AND RUNNING THENCE N 02°05'01" E 122.76 FEET, THENCE N 00°00'00" E 568.14 FEET, THENCE N 47°09'15. E 371.90 FEET TO A POINT ON THE WESTERLY RIGHT OF WAY OF 120 EAST STREET, THENCE ALONG SAID RIGHT OF WAY THE FOLLOWING SEVEN COURSES: 1) ALONG A CURVE TURNING TO THE RIGHT THROUGH AN ANGLE OF 46°29'00", HAVING A RADIUS OF 25.00 FEET, AND WHOSE LONG CHORD BEARS S 33°05'30" E FOR A DISTANCE OF 19.73 FEET, 2) S 09°50'42" E FOR A DISTANCE OF 21.43 FEET TO THE BEGINNING OF A CURVE, 3) ALONG SAID CURVE TURNING TO THE RIGHT THROUGH AN ANGLE OF 03°03'00", HAVING A RADIUS OF 969.63 FEET, AND WHOSE LONG CHORD BEARS S 08°19'25" E FOR A DISTANCE OF 51.61 FEET, 4) S 06°48'09" E 292.92 FEET TO THE BEGINNING OF A CURVE, 5) ALONG SAID CURVE TURNING TO THE LEFT THROUGH AN ANGLE OF 20°21'00", HAVING A RADIUS OF 255.98 FEET, AND WHOSE LONG CHORD BEARS S 16°58'37" E FOR A DISTANCE OF 90.44 FEET, 6) S 27°08'55" E OF 7.71 FEET TO THE BEGINNING OF A CURVE, 7) ALONG SAID CURVE TURNING TO THE RIGHT THROUGH AN ANGLE OF 89°59'00", HAVING A RADIUS OF 20.00 FEET, AND WHOSE LONG CHORD BEARS S 17°51'00" W FOR A DISTANCE OF 28.28 FEET TO A POINT OF INTERSECTION WITH A NON-TANGENTIAL LINE, THENCE S 62°44'27" W 0.49 FEET, THENCE S 18°42'48" E 117.47 FEET, THENCE S 04°52'37" W 123.94 FEET, THENCE S 01°28'49" W 208.95 FEET, THENCE N 90°00'00" W 30.64 FEET, THENCE S 03°00'00" W 330.43 FEET TO A POINT ON THE NORTHERLY BOUNDARY OF COUNTRYSIDE ESTATES PLAT D OF OFFICIAL RECORDS, THENCE ALONG SAID BOUNDARY N 89°59'34" W 32.86 FEET, THENCE N 00°00'00" E 329.96 FEET, THENCE N 90°00'00" W 295.65 FEET TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINS 6.98 ACRES (303,856 SQ. FT.)

NOTE: BASIS OF BEARING IS A MODIFIED NAD 83, UTAH CENTRAL ZONE, S 00°04'06" E ALONG THE SECTION LINE IN BETWEEN THE NORTHWEST CORNER AND THE WEST QUARTER CORNER OF SAID SECTION 12.

*Jaxon T. Brown*  
 JAXON THOMAS BROWN  
 PLS 13513878

12-1-23  
 DATE:



**OWNER'S DEDICATION**

KNOW ALL BY THESE PRESENTS THAT WE, ALL THE UNDERSIGNED OWNERS OF ALL THE PROPERTY DESCRIBED IN THE SURVEYOR'S CERTIFICATE HEREON AND SHOWN ON THIS PLAT, HAVE CAUSED THE SAME TO BE SUBDIVIDED INTO LOTS, BLOCKS, STREETS, AND EASEMENTS AND DO HEREBY DEDICATE THE STREETS AND OTHER PUBLIC AREAS AS INDICATED HEREON FOR THE PERPETUAL USE OF THE PUBLIC.

IN WITNESS WHEREOF WE HAVE HEREUNTO SET OUR HANDS THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, A.D. 20\_\_\_\_.

\_\_\_\_\_  
 SANTAQUIN 644 LLC

\_\_\_\_\_  
 BILL THOMAS ENTERPRISES LLC

SIGNED: \_\_\_\_\_ SIGNED: \_\_\_\_\_  
 (MANAGER) (MANAGER)

BROADBENT, JARIN & JAMI AS HUSBAND & WIFE

SIGNED: \_\_\_\_\_  
 (JARIN & JAMI BROADBENT)

**ACCEPTANCE BY LEGISLATIVE BODY**

THE CITY OF SANTAQUIN, APPROVES THIS SUBDIVISION AND HEREBY ACCEPTS THE DEDICATION OF ALL STREETS, EASEMENTS AND OTHER PARCELS OF LAND INTENDED FOR PUBLIC PURPOSES FOR THE PERPETUAL USE OF THE PUBLIC.

THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, A.D. 20\_\_\_\_.

\_\_\_\_\_  
 CITY ENGINEER  
 (SEE SEAL BELOW)

\_\_\_\_\_  
 APPROVED BY MAYOR

\_\_\_\_\_  
 ATTEST CITY RECORDER

**UTAH COUNTY RECORDER**

**PLAT "A"**  
**CITADEL SANTAQUIN STORAGE**  
 A STORAGE UNIT DEVELOPMENT  
 SITUATE IN THE NORTHWEST QUARTER OF SECTION 12, TOWNSHIP 10 SOUTH, RANGE 1 EAST, SALT LAKE BASE & MERIDIAN, SANTAQUIN, UTAH COUNTY, UTAH  
 SCALE: 1" = 60'  
 SHEET 1 OF 1

NOTARY PUBLIC SEAL      CITY ENGINEER SEAL      CLERK - RECORDER SEAL

**CORPORATE ACKNOWLEDGEMENT**

STATE OF UTAH }  
 COUNTY OF UTAH } s.s.

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_, BY \_\_\_\_\_ WHO PERSONALLY APPEARED BEFORE ME, WHO BEING DULY SWORN OR AFFIRMED, DID SAY THAT HE/SHE IS THE \_\_\_\_\_ OF \_\_\_\_\_ OF SANTAQUIN 644 LLC, AND THAT THE WITHIN AND FOREGOING INSTRUMENT WAS SIGNED IN BEHALF OF SAID COMPANY, AND IN HIS/HER CAPACITY AS \_\_\_\_\_ OF SANTAQUIN 644 LLC.

MY COMMISSION NUMBER: \_\_\_\_\_ SIGNED: (A NOTARY PUBLIC COMMISSIONED IN UTAH)

MY COMMISSION EXPIRES: \_\_\_\_\_ PRINT NAME OF NOTARY \_\_\_\_\_

**CORPORATE ACKNOWLEDGEMENT**

STATE OF UTAH }  
 COUNTY OF UTAH } s.s.

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_, BY \_\_\_\_\_ WHO PERSONALLY APPEARED BEFORE ME, WHO BEING DULY SWORN OR AFFIRMED, DID SAY THAT HE/SHE IS THE \_\_\_\_\_ OF BILL THOMAS ENTERPRISES LLC, AND THAT THE WITHIN AND FOREGOING INSTRUMENT WAS SIGNED IN BEHALF OF SAID COMPANY, AND IN HIS/HER CAPACITY AS \_\_\_\_\_ OF BILL THOMAS ENTERPRISES LLC.

MY COMMISSION NUMBER: \_\_\_\_\_ SIGNED: (A NOTARY PUBLIC COMMISSIONED IN UTAH)

MY COMMISSION EXPIRES: \_\_\_\_\_ PRINT NAME OF NOTARY \_\_\_\_\_

**ACKNOWLEDGEMENT**

STATE OF UTAH }  
 COUNTY OF UTAH } s.s.

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_, BY \_\_\_\_\_ OF THE \_\_\_\_\_ AND HAS AUTHORITY TO EXECUTE THIS INSTRUMENT.

MY COMMISSION NUMBER: \_\_\_\_\_ SIGNED: (A NOTARY PUBLIC COMMISSIONED IN UTAH)





MY COMMISSION EXPIRES: \_\_\_\_\_ PRINT NAME OF NOTARY \_\_\_\_\_

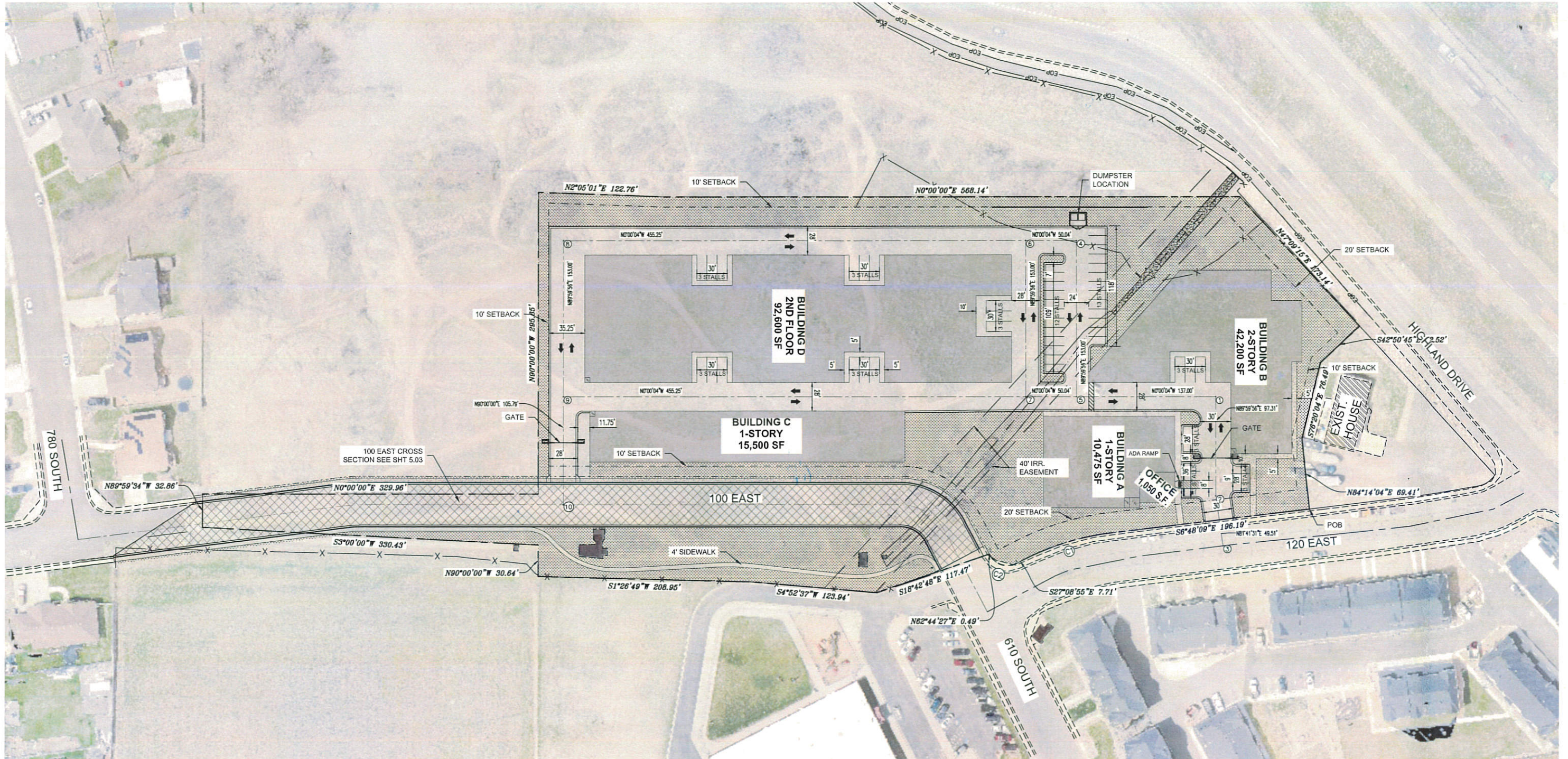
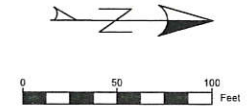
**MW BROWN ENGINEERING, INC**

Office: (801) 377-1790 Fax: (801) 377-1789  
 578 East 770 North, Orem UT 84097

# CITADEL SANTAQUIN STORAGE UNITS

120 EAST HIGHLAND DRIVE  
SANTAQUIN, UTAH

-  LANDSCAPE
-  BUILDING
-  RIGHT OF WAY DEDICATED TO CITY
-  CONCRETE



**MW BROWN ENGINEERING, INC.**  
Office: (801) 377-1790 Fax: (801) 377-1789  
578 East 770 North, Orem UT 84058

No.	Date	By	Notes

Designed: \_\_\_\_\_  
Drawn: \_\_\_\_\_  
Checked: \_\_\_\_\_  
Date: \_\_\_\_\_

**CITADEL SANTAQUIN**  
**SANTAQUIN, UTAH**  
**SITE PLAN**

Title: \_\_\_\_\_  
Location: \_\_\_\_\_  
Drawing Name: \_\_\_\_\_

PROJECT NO.  
2023.018

SHEET NO.  
**1.00**

**BOUNDARY DESCRIPTION**

A PARCEL OF LAND SITUATE IN THE NORTHWEST QUARTER OF SECTION 12, TOWNSHIP 10 SOUTH, RANGE 1 EAST, SALT LAKE BASE & MERIDIAN, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT LOCATED ON THE WESTERLY RIGHT-OF-WAY OF 120 EAST STREET, SAID POINT IS 469.22 FEET S 00°04'06" E ALONG THE SECTION LINE AND 1061.99 FEET EAST FROM THE NORTHWEST CORNER OF SAID SECTION 12, AND RUNNING THENCE ALONG SAID RIGHT-OF-WAY THE FOLLOWING FIVE COURSES: 1) S 06°48'09" E 196.19 FEET TO THE BEGINNING OF A CURVE, 2) ALONG SAID CURVE TURNING TO THE LEFT THROUGH AN ANGLE OF 20°21'00", HAVING A RADIUS OF 255.98 FEET, AND WHOSE LONG CHORD BEARS S 16°56'37" E 90.44 FEET, 3) S 27°08'55" E 7.71 FEET TO THE BEGINNING OF A CURVE, 4) ALONG SAID CURVE TURNING TO THE RIGHT THROUGH AN ANGLE OF 89°59'00", HAVING A RADIUS OF 20.00 FEET, AND WHOSE LONG CHORD BEARS S 17°51'00" W 28.26 FEET TO A POINT OF INTERSECTION WITH A NON-TANGENTIAL LINE, 5) S 62°44'27" W 0.49 FEET, THENCE S 16°42'48" E 117.47 FEET, THENCE S 04°52'37" W 123.94 FEET, S 01°26'49" W 208.95 FEET, THENCE N 90°00'00" W 30.64 FEET, THENCE S 03°00'00" W 330.43 FEET TO A POINT ON THE NORTHERLY BOUNDARY OF COUNTRYSIDE ESTATES PLAT D OF OFFICIAL RECORDS, THENCE ALONG SAID BOUNDARY N 89°59'34" W 32.86 FEET, THENCE N 00°00'00" E 329.96 FEET, THENCE N 90°00'00" W 295.65 FEET, THENCE N 02°05'01" E 122.76 FEET, THENCE N 00°00'00" E 568.14 FEET, THENCE N 47°09'15" E 173.14 FEET, THENCE S 42°50'45" E 52.52 FEET, THENCE S 76°20'04" E 76.49 FEET, THENCE N 84°14'04" E 68.41 FEET TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINS 6.52 ACRES (283,797 SQ. FT.)

NOTE: BASIS OF BEARING IS A MODIFIED NAD 83, UTAH CENTRAL ZONE, S 60°04'06" E ALONG THE SECTION LINE IN BETWEEN THE NORTHWEST CORNER AND THE WEST QUARTER CORNER OF SAID SECTION 12.

**CURVE TABLE**

CURVE	LENGTH	RADIUS	CHORD DIST.	CHORD BRG.	DELTA
C1	90.92'	255.98'	90.44'	N16°58'37"W	20°21'00"
C2	31.41'	20.00'	28.28'	N17°51'00"E	89°59'00"

**Point Table**

Point #	Northing	Easting
1	7156589.8180	1561188.3463
2	7156589.8199	1561285.6523
3	7156596.9733	1561334.6395
4	7156452.8150	1561035.3491
5	7156452.8180	1561188.3490
6	7156402.7742	1561035.3500
7	7156402.7772	1561188.3500
8	7155947.5230	1561035.3589
9	7155947.5260	1561188.3589
10	7155947.5280	1561294.1511

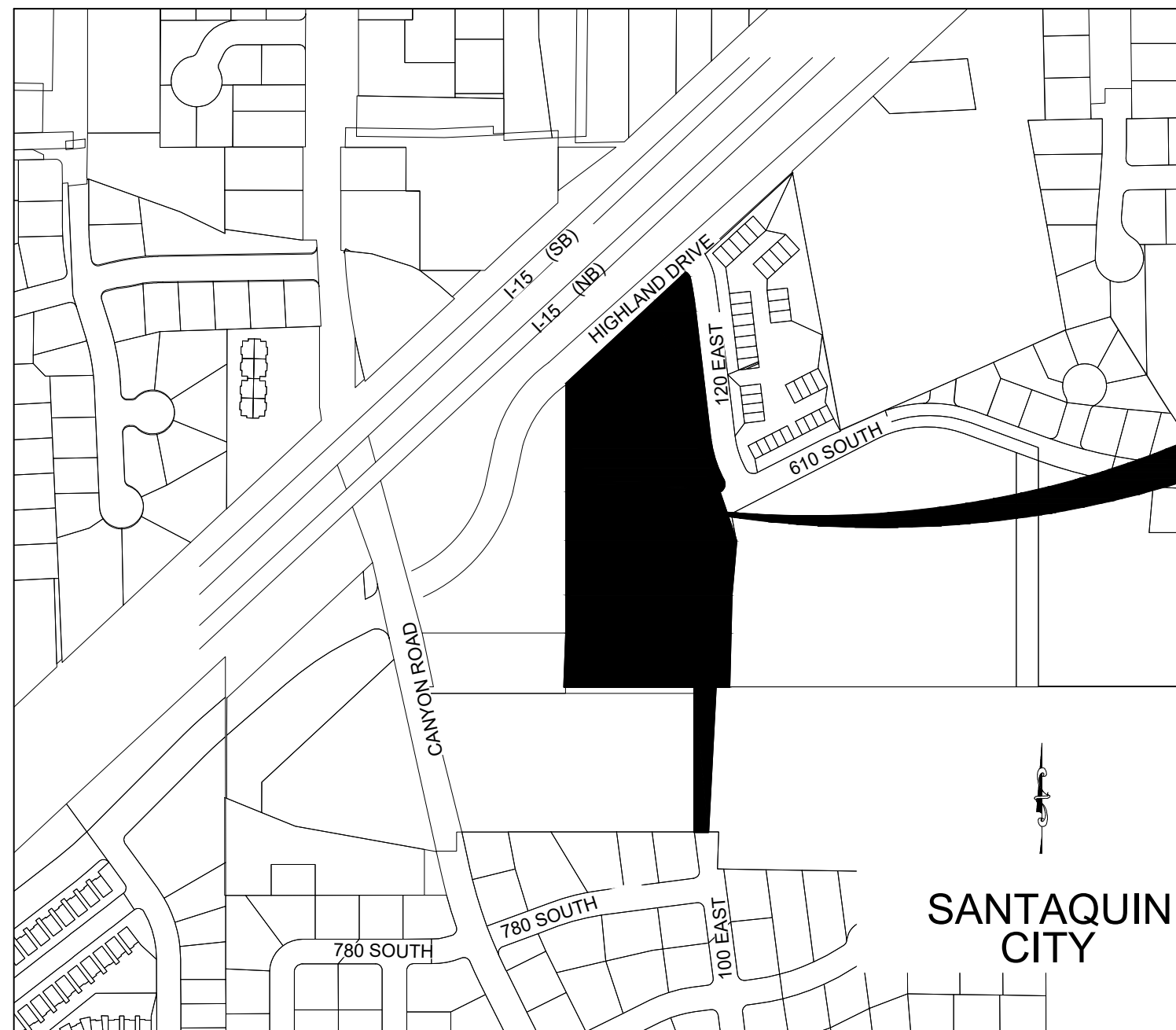
**GENERAL NOTES**

1. EXISTING WATER, SANITARY, AND STORM SEWER LINES ARE SHOWN BASED ON BEST AVAILABLE INFORMATION. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS SPECIFICALLY AT CONNECTION POINTS AND AT POTENTIAL POINTS OF CONFLICT. ALL INFORMATION SHALL BE SUPPLIED TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR:
  - (A) CONTRACTOR SHALL OBTAIN ALL PERMITS FOR STREET CUTS, UTILITIES CONSTRUCTION AND GRADING. THE COST OF ALL PERMITS SHALL BE INCLUDED AS PART OF THE CONTRACTOR'S BID INCLUDING, BUT NOT LIMITED TO THE NOI & NOT PERMITS AND ASSOCIATED SWPPP.
  - (B) COORDINATING WITH ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE.
  - (C) ALL PROJECT SAFETY INCLUDING, BUT NOT LIMITED TO, TRENCH EXCAVATION AND SHORINGS, TRAFFIC CONTROL, AND SECURITY.
  - (D) COORDINATING ALL WORK AND INSPECTIONS AS REQUIRED BY THE CITY OR THE STATE.
  - (E) OBTAINING NECESSARY PERMITS FROM UDOT FOR ALL WORK IN AND ADJACENT TO UDOT RIGHT-OF-WAY.
  - (F) RECORDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS KEPT ON THE CONSTRUCTION SITE. AS-BUILTS SHALL INCLUDE UNDERGROUND UTILITIES AS WELL AS ANY FIELD MODIFICATIONS OF THE PLANS.
  - (G) KEEPING ADJACENT STREETS FREE AND CLEAN OF ALL DEBRIS AND DIRT FROM THE JOB SITE.
3. IF DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH INDICATE AN UNIDENTIFIED SITUATION IS PRESENT, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
4. THE CONTRACTOR SHALL PREPARE ALL TRAFFIC CONTROL PLANS PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMITS FOR WORK WITHIN THE CITY, COUNTY, OR STATE RIGHT-OF-WAYS. THE PLAN SHALL BE PREPARED IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND AS MODIFIED BY THE UDOT SUPPLEMENT TO THE MUTCD. THE PLAN SHALL ADDRESS THE REQUIREMENTS FOR ALL SIGNS, BARRICADES, FLAGMEN, LIGHTS, HOURS OF CONSTRUCTION, AND OTHER DEVICES AS NECESSARY FOR SAFE TRAFFIC CONTROL.
5. TWO WORKINGS DAYS BEFORE YOU DIG, GRADE, OR EXCAVATE, CALL THE UTILITY NOTIFICATION CENTER OF UTAH FOR THE MARKING OF MEMBER UNDERGROUND UTILITIES. THE UTILITIES SHOWN ON THESE PLANS ARE PLOTTED BASED ON AVAILABLE INFORMATION. M.W. BROWN ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, AND REPAIR OF ANY EXISTING UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. ANY UTILITY DAMAGED BY CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE SANTAQUIN CITY STANDARD SPECIFICATIONS AND DRAWINGS. THE CONTRACTOR SHALL HAVE COPIES OF CITY AND STATE SPECIFICATIONS ON THE SITE AT ALL TIMES.
7. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH ALL UTILITY COMPANIES INVOLVED AND THE CITY OF SANTAQUIN WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OR EXISTING UTILITIES DURING CONSTRUCTION TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE.
8. ADVANCE COORDINATION BY THE CONTRACTOR TO ALL UTILITY COMPANIES INVOLVED SHALL BE REQUIRED FOR ANY SERVICE INTERRUPTIONS. CONTRACTOR SHALL NOTIFY THE ENGINEER, PROJECT MANAGER AND THE UTILITY COMPANY 48 HOURS PRIOR TO START OF CONSTRUCTION. NO UTILITY TAPS SHALL BE MADE WITHOUT WRITTEN AUTHORIZATION BY THE UTILITY COMPANY AND THE CITY.
9. MAINTAIN 10-FOOT HORIZONTAL SEPARATION BETWEEN WATER AND SEWER PIPELINES.
10. UTILITY TRENCHES ARE TO BE SLOPED OR BRACED AND SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKMEN AND THE PROTECTION OF OTHER UTILITIES IN COMPLIANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS.
11. CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE CITY BUILDING INSPECTION DEPARTMENT 48 HOURS PRIOR TO THE START OF ANY CONSTRUCTION.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH UTILITY COMPANIES TO OBTAIN TEMPORARY POWER AND TELEPHONE SERVICE DURING CONSTRUCTION. ALL COSTS FOR TEMPORARY SERVICES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
13. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR COMPLETION OF INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED BY NOTE TO BE "PROVIDED", "INSTALLED" OR "CONSTRUCTED" UNLESS SPECIFICALLY NOTED OTHERWISE.
14. CONTRACTOR WILL HAVE A COPY OF APPROVED SOILS REPORTS FOR PAVEMENT DESIGN AND COMPACTION REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL RECOMMENDATIONS CONTAINED WITHIN THE SOILS REPORT AND SHALL SUBMIT A PAVEMENT DESIGN TO THE PAYSON CITY ENGINEERING DEPARTMENT PRIOR TO ANY PAVING.
15. SUBGRADE DENSITY SHALL BE TESTED BY A PRIVATE SOILS TESTING FIRM AND APPROVED BY THE SOILS ENGINEER PRIOR TO INSTALLING BASE COURSE OR CONCRETE. BASE COURSE DENSITY SHALL ALSO BE TESTED BY THE PRIVATE SOILS FIRM AND APPROVED BY THE SOILS ENGINEER PRIOR TO INSTALLING PAVEMENT.
16. THESE GENERAL NOTES SHALL BE APPLICABLE TO ALL SHEETS WITHIN THIS SET OF DRAWINGS.
17. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED AT THE JOB SITE AT ALL TIMES. EACH SUBCONTRACTOR (INCLUDING THE SURVEYOR) SHALL HAVE A SIGNED COPY OF THE PLANS AND THE APPROPRIATE STANDARDS AND SPECIFICATIONS IN HIS POSSESSION AT ALL TIMES WHEN IMPROVEMENTS ARE BEING INSTALLED.
18. THE SITE WORK SHALL MEET OR EXCEED THE LATEST EDITION OF THE CITY DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF THE STANDARDS ON SITE AT ALL TIMES.
19. BENCHMARK VERIFICATION: CONTRACTOR SHALL USE BENCHMARKS AND DATUMS SHOWN HEREON TO SET PROJECT BENCHMARK(S), BY RUNNING A LEVEL LOOP BETWEEN AT LEAST TWO BENCHMARKS, AND SHALL PROVIDE SURVEY NOTES OF SUCH TO PROJECT ENGINEER PRIOR TO COMMENCING CONSTRUCTION.
20. COORDINATES ARE GIVEN TO AID THE CONTRACTOR/SURVEYOR IN LOCATING PROPOSED IMPROVEMENTS. THE CONTRACTOR/SURVEYOR IS RESPONSIBLE FOR CHECKING THE LOCATIONS OF IMPROVEMENTS LAID OUT WITH COORDINATES USING DIMENSIONS AND OFFSETS GIVEN. IF A PERTINENT DIMENSION OR OFFSET IS NOT SHOWN ON THE PLAN, CONTACT THE ENGINEER FOR INFORMATION.

# CITADEL SANTAQUIN STORAGE UNITS CONSTRUCTION PLANS

120 East Highland Drive  
Santaquin, Utah

NOVEMBER 03, 2023



PROJECT LOCATION

## VICINITY MAP

**CITY NOTES:**

THE DEVELOPER AND THE GENERAL CONTRACTOR UNDERSTAND THAT IT IS HIS/HER RESPONSIBILITY TO ENSURE THAT ALL IMPROVEMENTS INSTALLED WITHIN THIS DEVELOPMENT ARE CONSTRUCTED IN FULL COMPLIANCE WITH ALL STATE AND SANTAQUIN CITY CODES, ORDINANCES AND STANDARDS. THESE PLANS ARE NOT ALL INCLUSIVE OF ALL MINIMUM CODES, ORDINANCES AND STANDARDS. THIS FACT DOES NOT RELIEVE THE DEVELOPER OR GENERAL CONTRACTOR FROM FULL COMPLIANCE WITH ALL MINIMUM STATE AND SANTAQUIN CITY CODES, ORDINANCES AND STANDARDS.

ALL RECOMMENDATIONS MADE IN A PERTINENT GEOTECHNICAL REPORT/STUDY SHALL BE FOLLOWED EXPLICITLY DURING CONSTRUCTION OF BUILDINGS AND SITE IMPROVEMENTS.

ARCHITECT:  
JORDAN ARCHITECTS  
DAVID MEINECKE  
949-388-8090  
131 CALLE IGLESIA, SUITE 100  
SAN CLEMENTE, CALIFORNIA 92672

GEOTECHNICAL ENGINEER:  
CMT TECHNICAL SERVICES  
JEFFREY EGBERT, P.E.  
801-810-8193  
496 E 1750 N SUITE B  
VINEYARD, UTAH 84057

ENGINEER:  
M.W. BROWN ENGINEERING  
MATT W. BROWN P.E.  
801-377-1790  
578 EAST 770 NORTH  
OREM, UTAH 84097

OWNER:  
RIDGEPOINT MANAGEMENT GROUP, LLC  
HEATH JOHNSTON  
801-764-9191  
947 SOUTH 500 EAST #100  
AMERICAN FORK, UTAH 84003

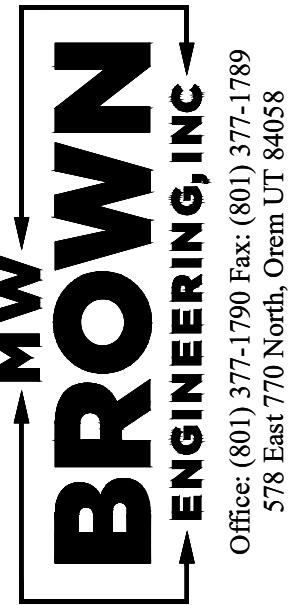
INDEX OF SHEETS	
SHEET	DESCRIPTION
CV	COVER
0.00	EXISTING CONDITIONS
1.00	SITE PLAN
1.01	GRADING PLAN
1.02	UTILITY PLAN
2.00-2.09	PLAN & PROFILE SHEETS
2.10-2.11	SD PROFILES
3.00	SCI&CC IRRIGATION PLAN & PROFILE
4.00-4.01	RETAINING WALL PLAN SHEETS
5.00-5.05	DETAIL SHEETS

SITE INFORMATION	
DESCRIPTION	PROJECT DATA
TYPE OF BLDG	Self Storage
TYPE OF CONSTRUCTION	Type IIB
TYPE OF OCCUPANCY	S-1
NUMBER OF STORIES	1 & 2
FIRE SUPPRESSION	NFPA-13 Sprinkler System

SITE TABULATIONS		
DESCRIPTION	SQ. FT.	ACRES
PARCEL SIZE	303,856	6.98
PARKING LOT AREA	63,099	1.45
LANDSCAPE AREA	83,622	1.92
STREET RW	32,863	0.75
CONC. WALK AREAS	8,976	0.21

BUILDING AREA TABULATIONS (SF)			
BUILDING	SELF STORAGE	OFFICE	TOTAL
BLDG A - 1 STORY	10,475	1,050	11,525
BLDG B - 2 STORY	42,200		42,200
BUILDING C - 1 STORY	15,500		15,500
BUILDING D - 2 STORY	92,600		92,600
TOTAL GROSS AREA	160,025	1,050	161,075

PARKING TABULATIONS		
DESCRIPTION	REQUIRED	PROVIDED
OFFICE SPACE	4*	6
ADA	1	1**
TOTAL PARKING		52
* 1 STALL / 300 SF (1,050 SF PROPOSED)		
** INCLUDES 1 VAN ACCESSIBLE STALLS		



No.	Date	By	Notes

Designed: \_\_\_\_\_  
Drawn: \_\_\_\_\_  
Checked: \_\_\_\_\_  
Date: \_\_\_\_\_

CITADEL SANTAQUIN  
SANTAQUIN, UTAH  
COVER SHEET

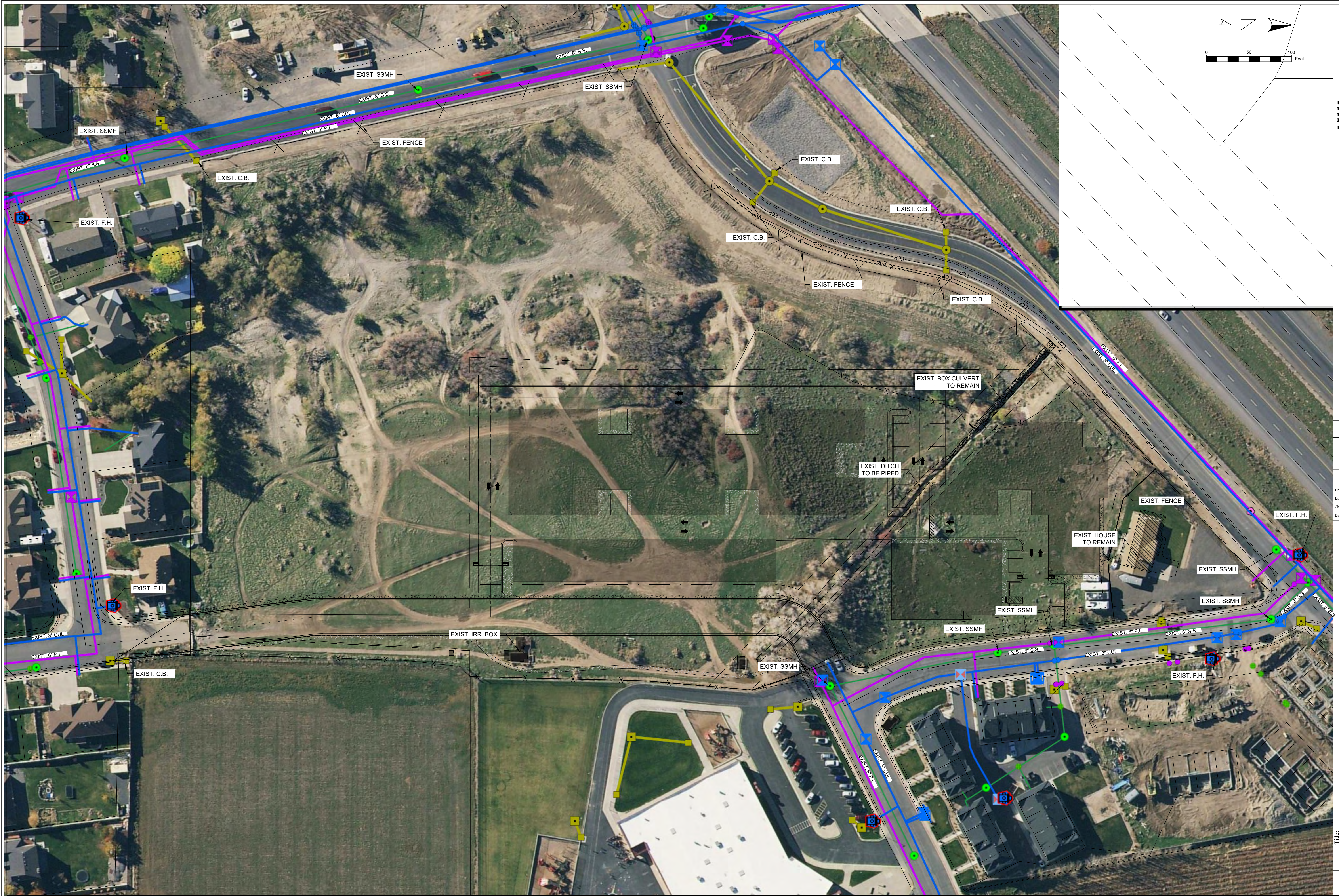
Title: \_\_\_\_\_  
Location: \_\_\_\_\_  
Drawing Name: \_\_\_\_\_

PROJECT NO.  
2023.018

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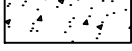
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 Location: **SANTAQUIN, UTAH**  
 Drawing Name: **EXISTING CONDITIONS**

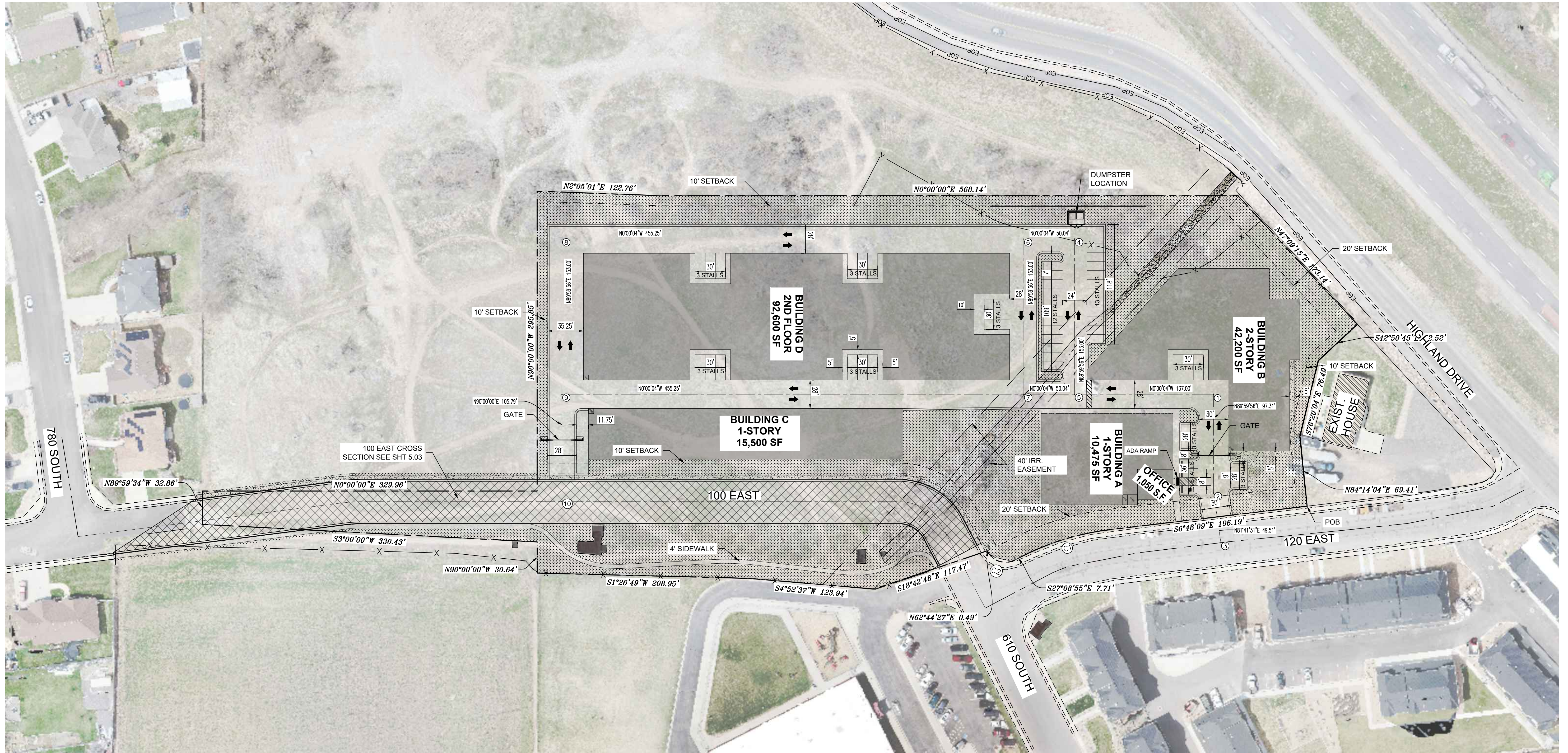
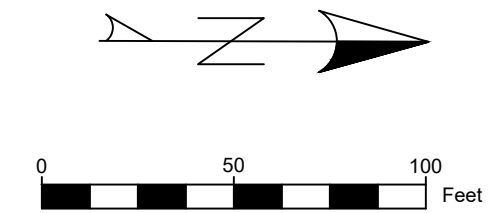
PROJECT NO.  
2023.018

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**0.00**

# CITADEL SANTAQUIN STORAGE UNITS

120 EAST HIGHLAND DRIVE  
SANTAQUIN, UTAH

-  LANDSCAPE
-  BUILDING
-  RIGHT OF WAY DEDICATED TO CITY
-  CONCRETE



**MW BROWN ENGINEERING, INC.**  
Office: (801) 377-1790 Fax: (801) 377-1789  
578 East 770 North, Orem UT 84058

No.	Date	By	Notes

Designed: \_\_\_\_\_  
Drawn: \_\_\_\_\_  
Checked: \_\_\_\_\_  
Date: \_\_\_\_\_

**CITADEL SANTAQUIN**  
**SANTAQUIN, UTAH**  
**SITE PLAN**

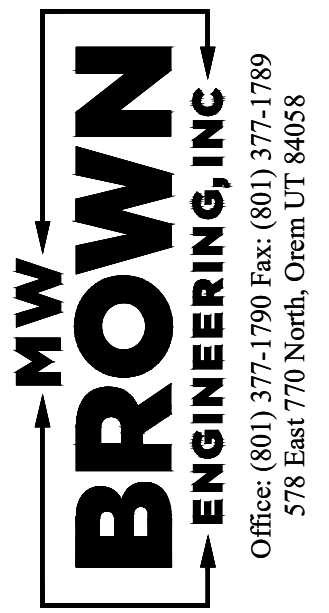
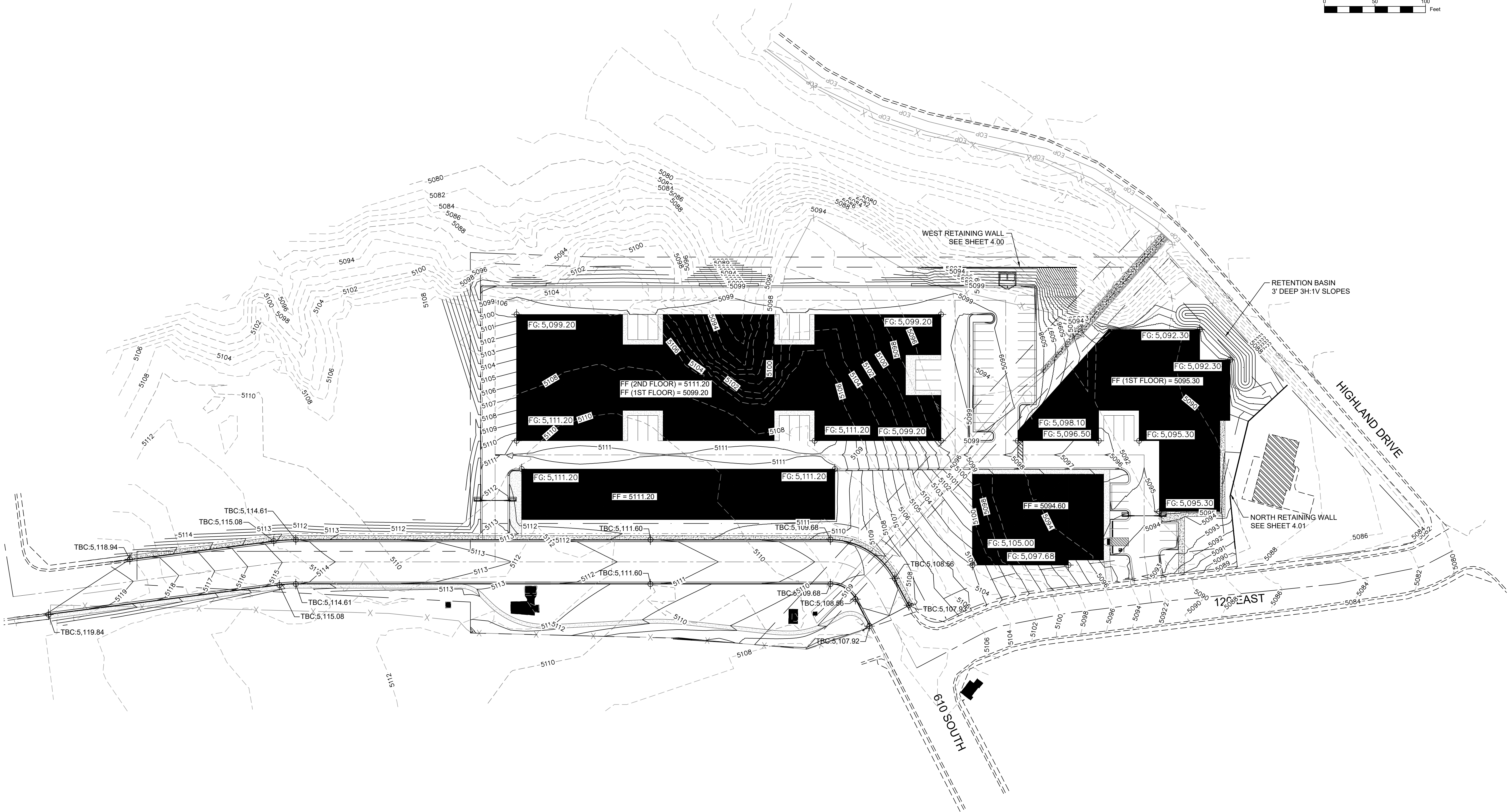
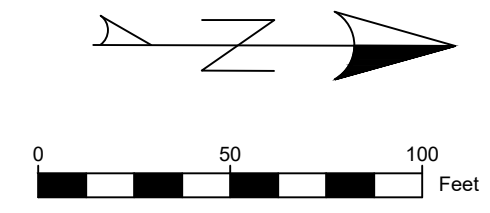
PROJECT NO.  
2023.018  
SHEET NO.  
**1.00**

**BOUNDARY DESCRIPTION**

A PARCEL OF LAND SITUATE IN THE NORTHWEST QUARTER OF SECTION 12, TOWNSHIP 10 SOUTH, RANGE 1 EAST, SALT LAKE BASE & MERIDIAN, MORE PARTICULARLY DESCRIBED AS FOLLOWS:  
BEGINNING AT A POINT LOCATED ON THE WESTERLY RIGHT-OF-WAY OF 120 EAST STREET, SAID POINT IS 469.22 FEET S 00°04'06" E ALONG THE SECTION LINE AND 1081.99 FEET EAST FROM THE NORTHWEST CORNER OF SAID SECTION 12, AND RUNNING THENCE ALONG SAID RIGHT-OF-WAY THE FOLLOWING FIVE COURSES: 1) S 06°48'09" E 196.19 FEET TO THE BEGINNING OF A CURVE, 2) ALONG SAID CURVE TURNING TO THE LEFT THROUGH AN ANGLE OF 20°21'00", HAVING A RADIUS OF 255.98 FEET, AND WHOSE LONG CHORD BEARS S 16°58'37" E 90.44 FEET, 3) S 27°08'55" E 7.71 FEET TO THE BEGINNING OF A CURVE, 4) ALONG SAID CURVE TURNING TO THE RIGHT THROUGH AN ANGLE OF 89°59'00", HAVING A RADIUS OF 20.00 FEET, AND WHOSE LONG CHORD BEARS S 17°51'00" W 28.28 FEET TO A POINT OF INTERSECTION WITH A NON-TANGENTIAL LINE, 5) S 62°44'27" W 0.49 FEET, THENCE S 18°42'48" E 117.47 FEET, THENCE S 04°52'37" W 123.94 FEET, S 01°26'49" W 208.95 FEET, THENCE N 90°00'00" W 30.64 FEET, THENCE S 03°00'00" W 330.43 FEET TO A POINT ON THE NORTHERLY BOUNDARY OF COUNTRYSIDE ESTATES PLAT D OF OFFICIAL RECORDS, THENCE ALONG SAID BOUNDARY N 89°59'34" W 32.86 FEET, THENCE N 00°00'00" E 329.96 FEET, THENCE N 90°00'00" W 285.65 FEET, THENCE N 02°05'01" E 122.76 FEET, THENCE N 00°00'00" E 568.14 FEET, THENCE N 47°09'15" E 173.14 FEET, THENCE S 42°50'45" E 62.52 FEET, THENCE S 76°20'04" E 76.49 FEET, THENCE N 84°14'04" E 69.41 FEET TO THE POINT OF BEGINNING.  
SAID PARCEL CONTAINS 6.52 ACRES (283,797 SQ. FT.)  
NOTE: BASIS OF BEARING IS A MODIFIED NAD 83, UTAH CENTRAL ZONE, S 00°04'06" E ALONG THE SECTION LINE IN BETWEEN THE NORTHWEST CORNER AND THE WEST QUARTER CORNER OF SAID SECTION 12.

Point #	Northing	Easting
1	7156589.8180	1561188.3463
2	7156589.8199	1561285.6523
3	7156596.9733	1561334.6395
4	7156452.8150	1561035.3491
5	7156452.8180	1561188.3490
6	7156402.7742	1561035.3500
7	7156402.7772	1561188.3500
8	7155947.5230	1561035.3589
9	7155947.5260	1561188.3589
10	7155947.5280	1561294.1511

CURVE	LENGTH	RADIUS	CHORD DIST.	CHORD BRG.	DELTA
C1	90.92'	255.98'	90.44'	N16°58'37"W	20°21'00"
C2	31.41'	20.00'	28.28'	N17°51'00"E	89°59'00"

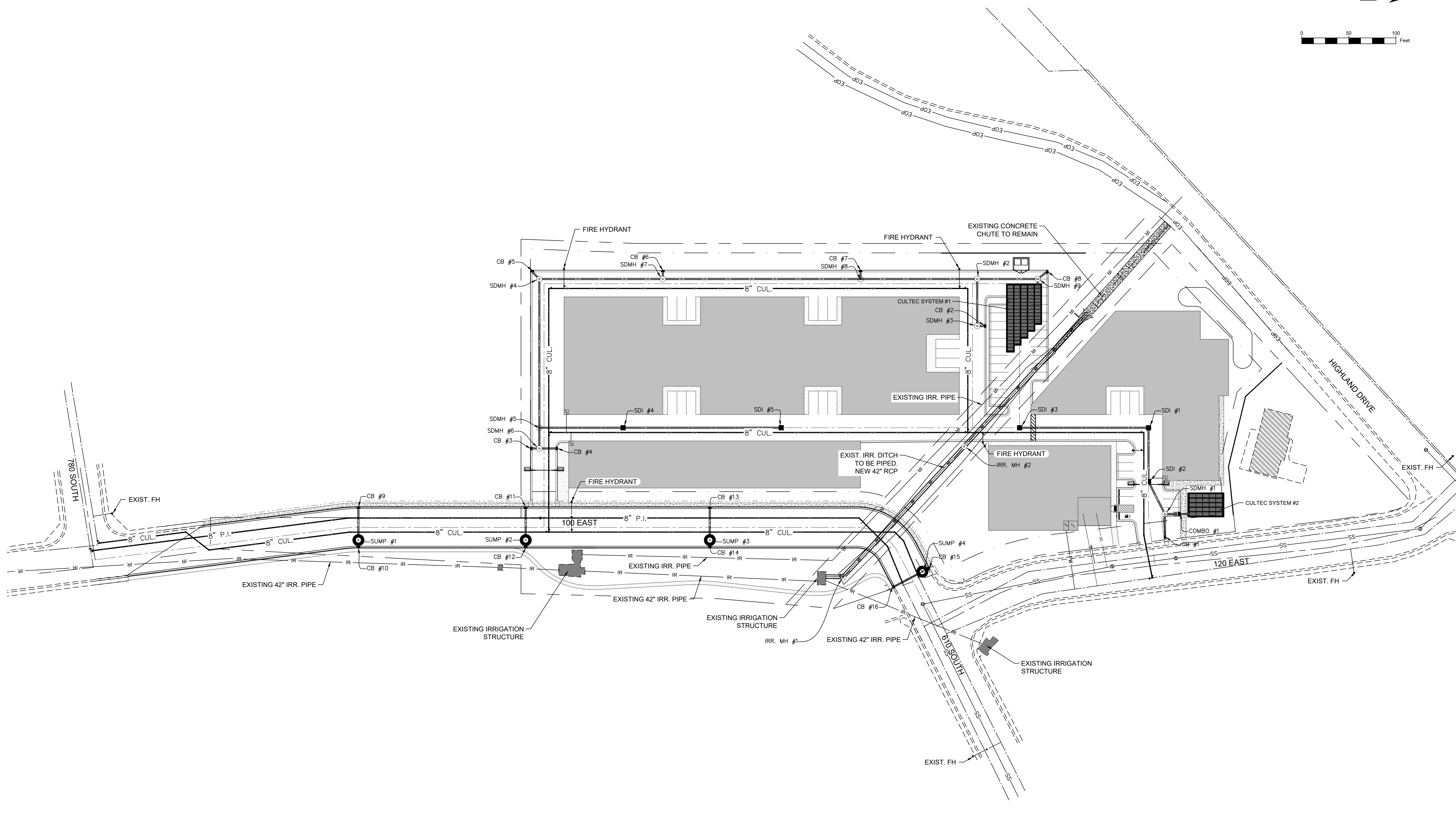
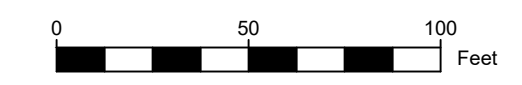
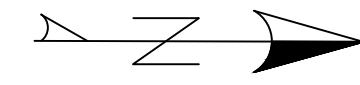


No.	Date	By	Notes

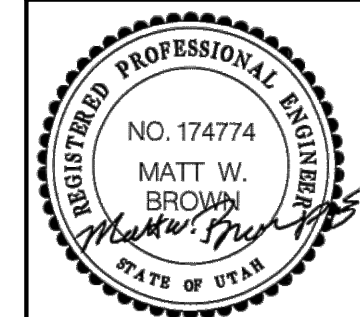
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 Drawn: \_\_\_\_\_  
 Checked: \_\_\_\_\_  
 Date: \_\_\_\_\_

Title: CITADEL SANTAQUIN  
 Location: SANTAQUIN, UTAH  
 Drawing Name: GRADING PLAN

PROJECT NO.  
2023.018  
 SHEET NO.  
1.01



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 Office: (801) 377-1790 Fax: (801) 377-1789  
 578 East 770 North, Orem UT 84058



No.	Date	By	Notes

Designed: \_\_\_\_\_  
 Drawn: \_\_\_\_\_  
 Checked: \_\_\_\_\_  
 Date: \_\_\_\_\_

Title: **CITADEL SANTAQUIN**  
 Location: **SANTAQUIN, UTAH**  
 Drawing Name: **UTILITY PLAN**

PROJECT NO.  
2023.018  
 SHEET NO.  
1.02



No.	Date	By	Notes

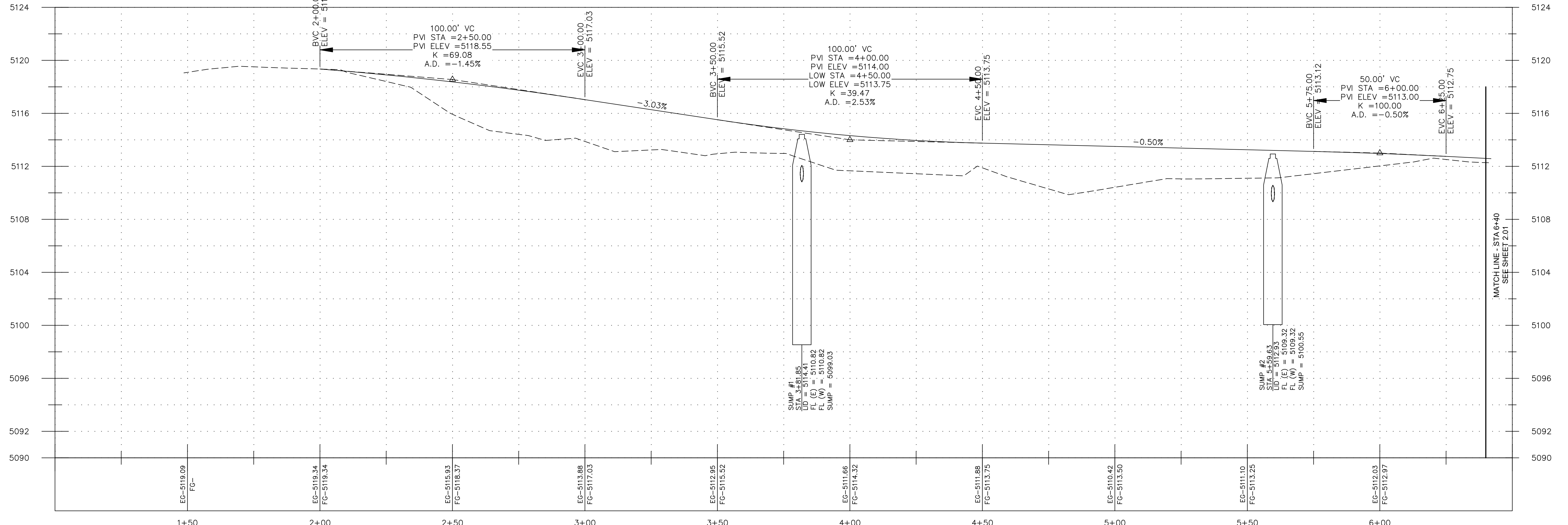
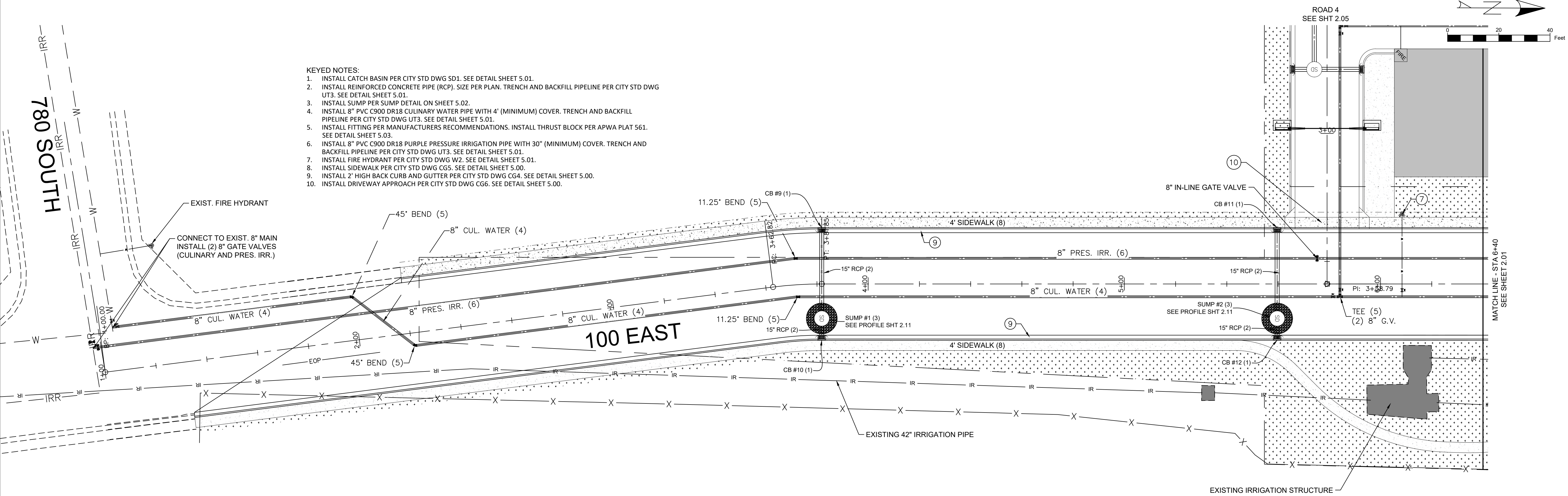
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Drawn: \_\_\_\_\_  
Checked: \_\_\_\_\_  
Date: \_\_\_\_\_

Title: **CITADEL SANTAQUIN**  
Location: **SANTAQUIN, UTAH**  
Drawing Name: **100 EAST P&P**

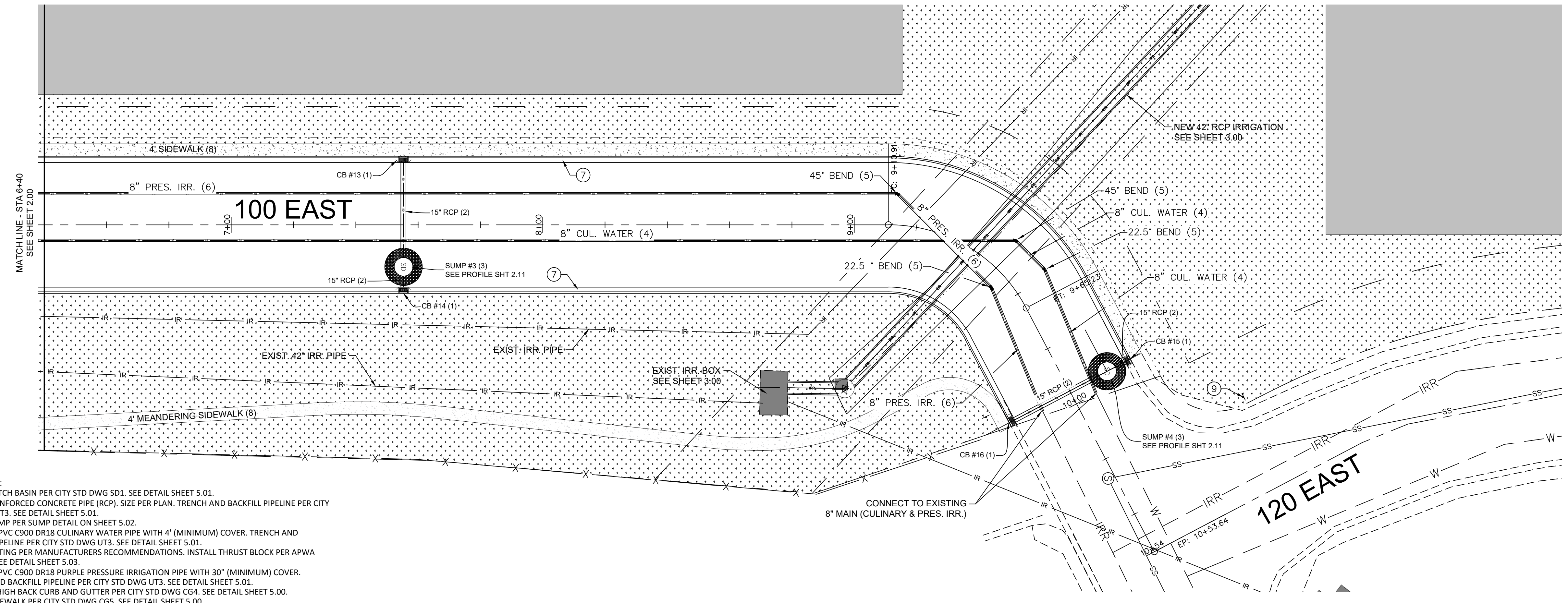
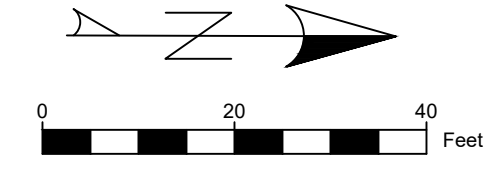
PROJECT NO.  
2023.018

SHEET NO.  
2.00

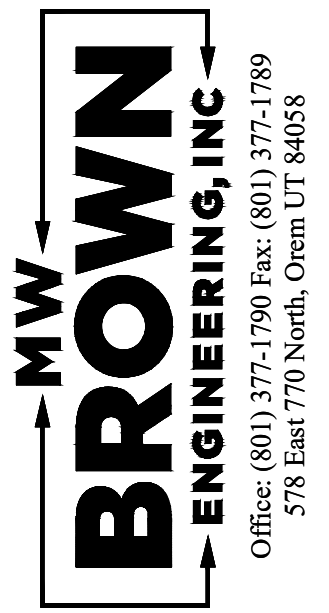
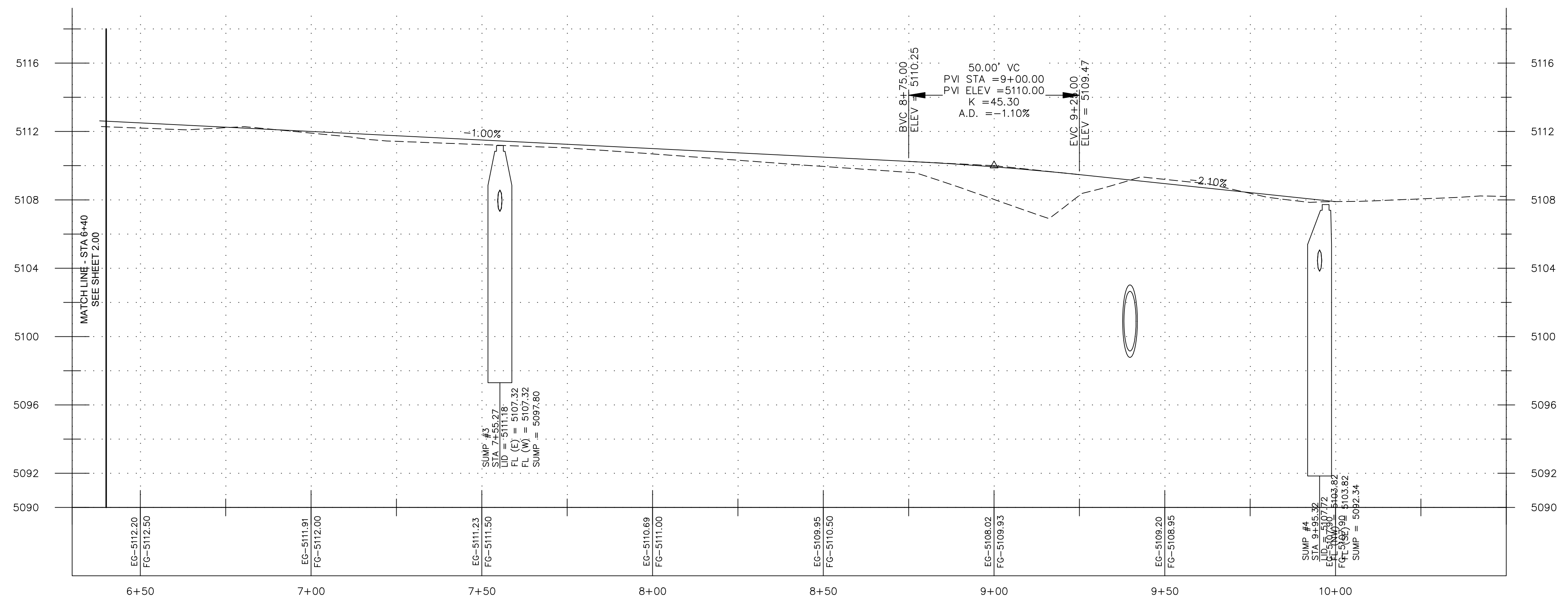
- KEYED NOTES:**
1. INSTALL CATCH BASIN PER CITY STD DWG SD1. SEE DETAIL SHEET 5.01.
  2. INSTALL REINFORCED CONCRETE PIPE (RCP). SIZE PER PLAN. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG UT3. SEE DETAIL SHEET 5.01.
  3. INSTALL SUMP PER SUMP DETAIL ON SHEET 5.02.
  4. INSTALL 8" PVC C900 DR18 CULINARY WATER PIPE WITH 4" (MINIMUM) COVER. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG UT3. SEE DETAIL SHEET 5.01.
  5. INSTALL FITTING PER MANUFACTURERS RECOMMENDATIONS. INSTALL THRUST BLOCK PER APWA PLAT 561. SEE DETAIL SHEET 5.03.
  6. INSTALL 8" PVC C900 DR18 PURPLE PRESSURE IRRIGATION PIPE WITH 30" (MINIMUM) COVER. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG UT3. SEE DETAIL SHEET 5.01.
  7. INSTALL FIRE HYDRANT PER CITY STD DWG W2. SEE DETAIL SHEET 5.01.
  8. INSTALL SIDEWALK PER CITY STD DWG CG5. SEE DETAIL SHEET 5.00.
  9. INSTALL 2" HIGH BACK CURB AND GUTTER PER CITY STD DWG CG4. SEE DETAIL SHEET 5.00.
  10. INSTALL DRIVEWAY APPROACH PER CITY STD DWG CG6. SEE DETAIL SHEET 5.00.







- KEYED NOTES:
1. INSTALL CATCH BASIN PER CITY STD DWG SD1. SEE DETAIL SHEET 5.01.
  2. INSTALL REINFORCED CONCRETE PIPE (RCP). SIZE PER PLAN. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG UT3. SEE DETAIL SHEET 5.01.
  3. INSTALL SUMP PER SUMP DETAIL ON SHEET 5.02.
  4. INSTALL 8" PVC C900 DR18 CULINARY WATER PIPE WITH 4" (MINIMUM) COVER. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG UT3. SEE DETAIL SHEET 5.01.
  5. INSTALL FITTING PER MANUFACTURERS RECOMMENDATIONS. INSTALL THRUST BLOCK PER APWA PLAT 561. SEE DETAIL SHEET 5.03.
  6. INSTALL 8" PVC C900 DR18 PURPLE PRESSURE IRRIGATION PIPE WITH 30" (MINIMUM) COVER. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG UT3. SEE DETAIL SHEET 5.01.
  7. INSTALL 2" HIGH BACK CURB AND GUTTER PER CITY STD DWG CG4. SEE DETAIL SHEET 5.00.
  8. INSTALL SIDEWALK PER CITY STD DWG CG5. SEE DETAIL SHEET 5.00.
  9. INSTALL STREET/STOP SIGN PER CITY STD DWG ST7. SEE DETAIL SHEET 5.01.

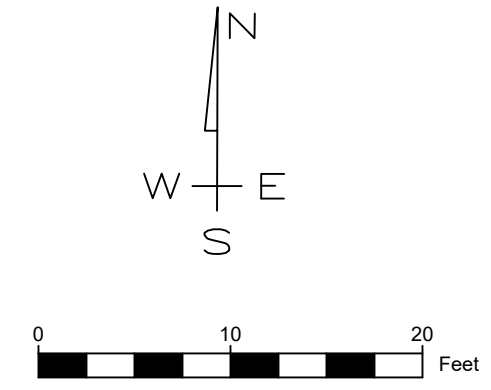
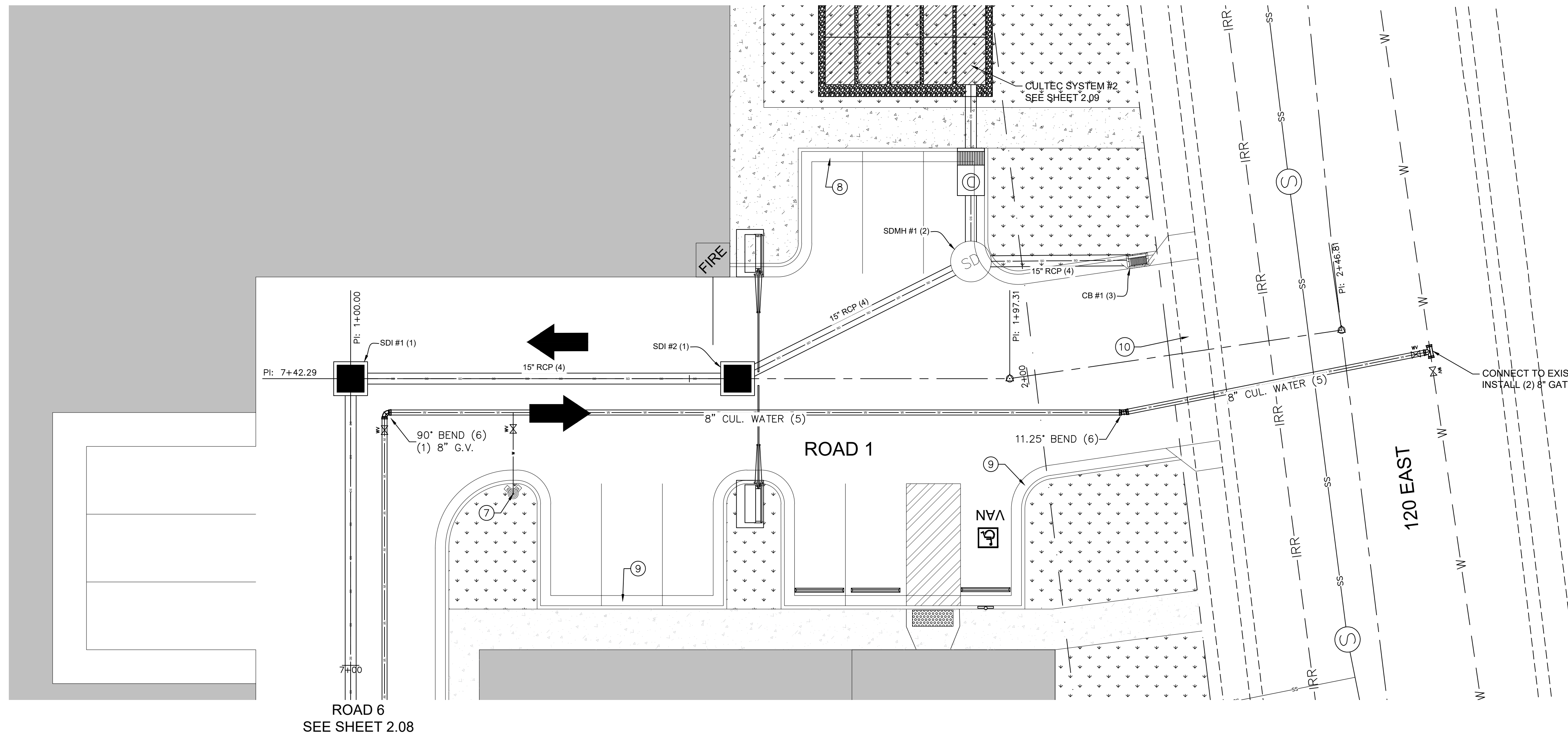


No.	Date	By	REVISIONS

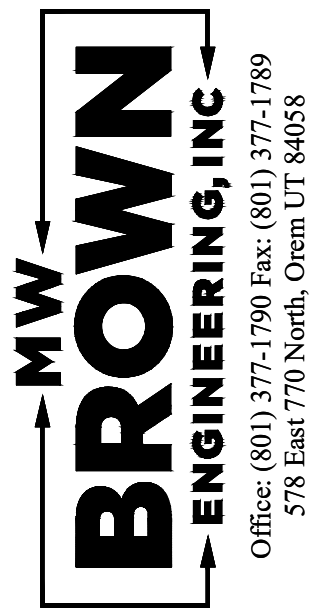
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 Drawn: \_\_\_\_\_  
 Checked: \_\_\_\_\_  
 Date: \_\_\_\_\_

Title: **CITADEL SANTAQUIN**  
 Location: **SANTAQUIN, UTAH**  
 Drawing Name: **100 EAST P&P**

PROJECT NO.  
2023.018  
 SHEET NO.  
**2.01**



- KEYED NOTES:**
1. INSTALL PRECAST 4'x4' STORM DRAIN INLET BOX PER APWA PLAN 332 WITH GRATE LID. SEE DETAIL SHEET 5.02.
  2. INSTALL STORM DRAIN MANHOLE PER CITY STD DWG SD2. SEE DETAIL SHEET 5.01.
  3. INSTALL CATCH BASIN PER CITY STD DWG SD1. SEE DETAIL SHEET 5.01.
  4. INSTALL REINFORCED CONCRETE PIPE (RCP). SIZE PER PLAN. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG UT3. SEE DETAIL SHEET 5.01.
  5. INSTALL 8" PVC C900 DR18 CULINARY WATER PIPE WITH 4" (MINIMUM) COVER. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG UT3. SEE DETAIL SHEET 5.01.
  6. INSTALL FITTING PER MANUFACTURERS RECOMMENDATIONS. INSTALL THRUST BLOCK PER APWA PLAT 561. SEE DETAIL SHEET 5.03.
  7. INSTALL FIRE HYDRANT PER CITY STD DWG W2. SEE DETAIL SHEET 5.01.
  8. INSTALL 2' HIGH BACK CURB AND GUTTER PER CITY STD DWG CG4. SEE DETAIL SHEET 5.00.
  9. INSTALL 2' FALLOUT CURB AND GUTTER. SEE DETAIL SHEET 5.00.
  10. INSTALL DRIVEWAY APPROACH PER CITY STD DWG CG6. SEE DETAIL SHEET 5.00.

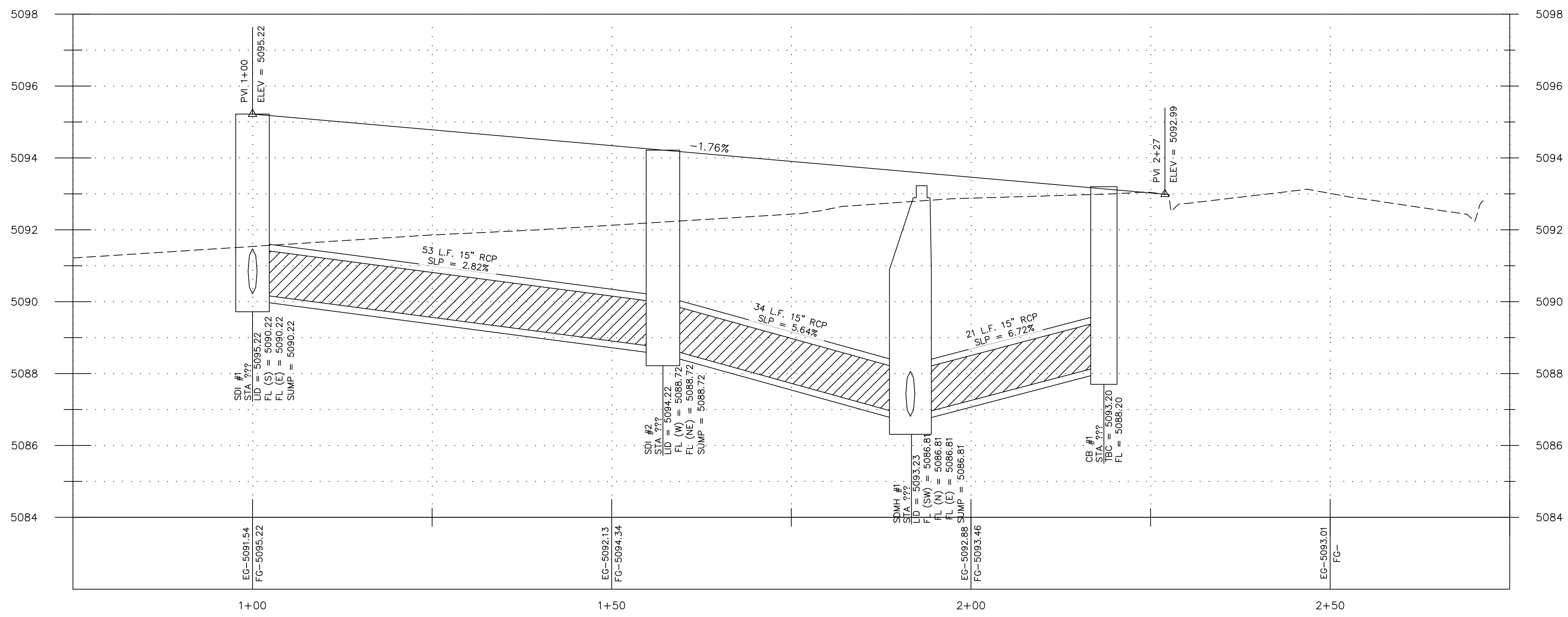


No.	Date	By	Notes

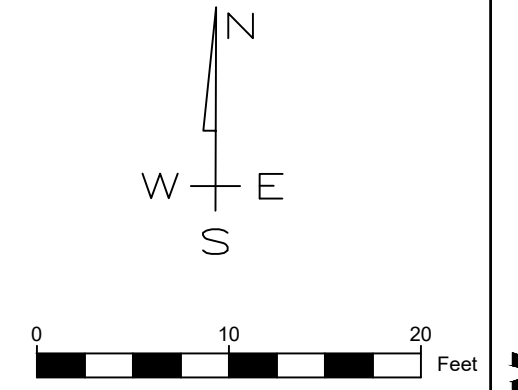
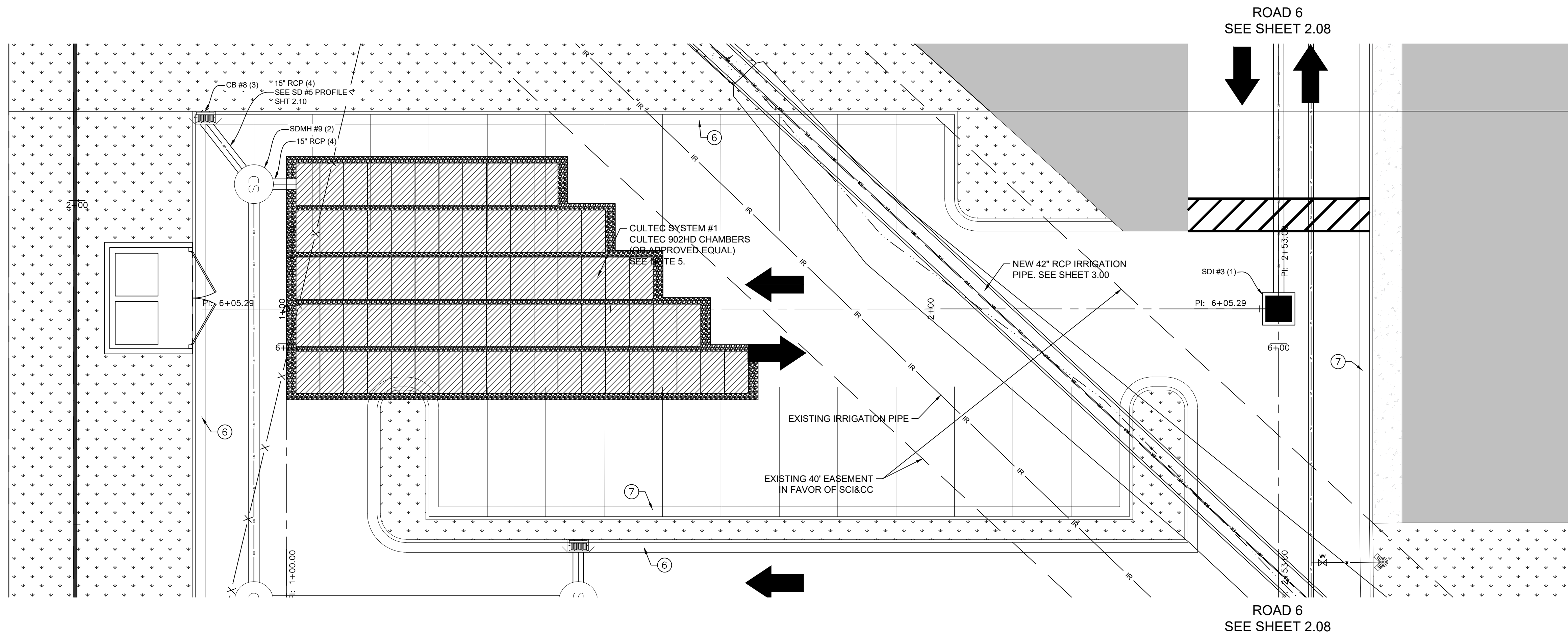
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 Date: \_\_\_\_\_

Title: **CITADEL SANTAQUIN**  
 Location: **SANTAQUIN, UTAH**  
 Drawing Name: **ROAD 1 P&P**

PROJECT NO.  
2023.018  
 SHEET NO.  
2.02

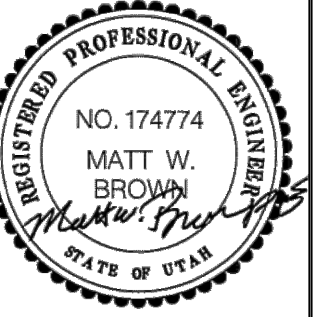


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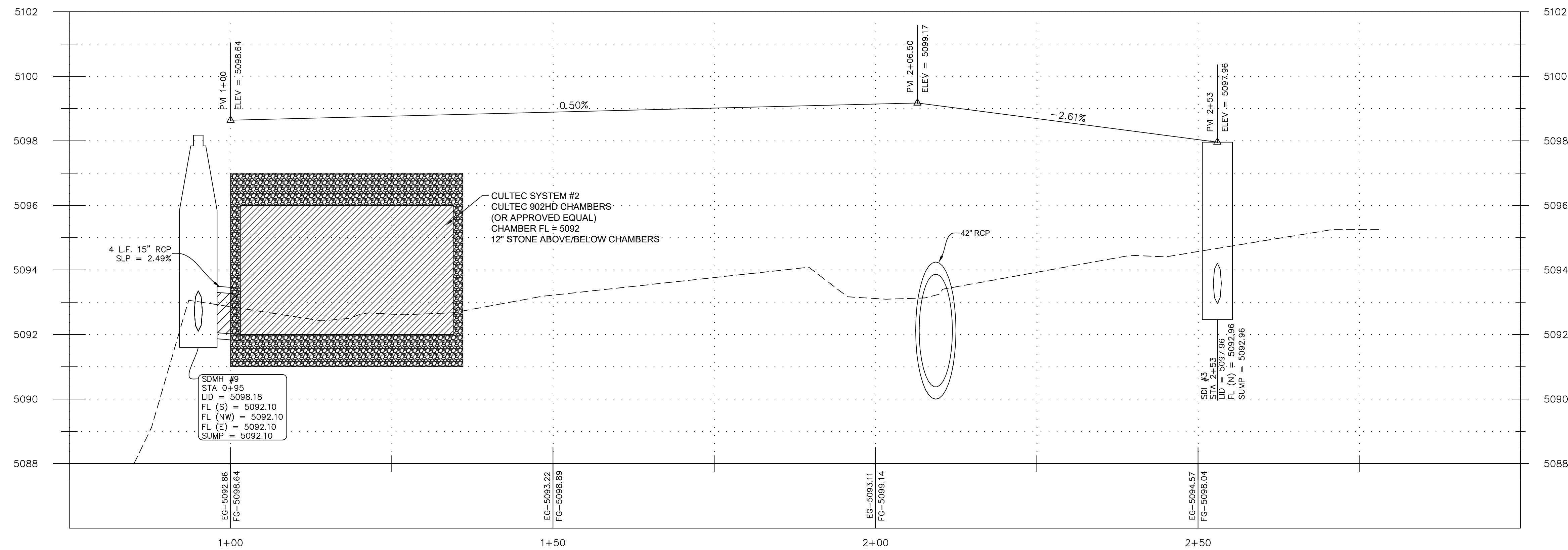
- KEYED NOTES:
1. INSTALL PRECAST 4'X4' STORM DRAIN INLET BOX PER APWA PLAN 332 WITH GRATE LID. SEE DETAIL SHEET 5.02.
  2. INSTALL STORM DRAIN MANHOLE PER CITY STD DWG SD2. SEE DETAIL SHEET 5.01.
  3. INSTALL CATCH BASIN PER CITY STD DWG SD1. SEE DETAIL SHEET 5.01.
  4. INSTALL REINFORCED CONCRETE PIPE (RCP), SIZE PER PLAN. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG UT3. SEE DETAIL SHEET 5.01.
  5. UNDERGROUND RETENTION SYSTEM AREA. PROPOSED CULTEC RECHARGER 902HD CHAMBERS (105) WITH SEPARATOR ROW AND 12" STONE ABOVE/BELOW CHAMBERS. DETAIL DRAWINGS OF SYSTEM TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. CULTEC DETAILS PROVIDED ON SHEET 5.04 ARE FOR REFERENCE ONLY.
  6. INSTALL 2' HIGH BACK CURB AND GUTTER PER CITY STD DWG CG4. SEE DETAIL SHEET 5.00.
  7. INSTALL 2' FALLOUT CURB AND GUTTER. SEE DETAIL SHEET 5.00.

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No.	Date	By	Notes

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Drawn: \_\_\_\_\_  
Checked: \_\_\_\_\_  
Date: \_\_\_\_\_



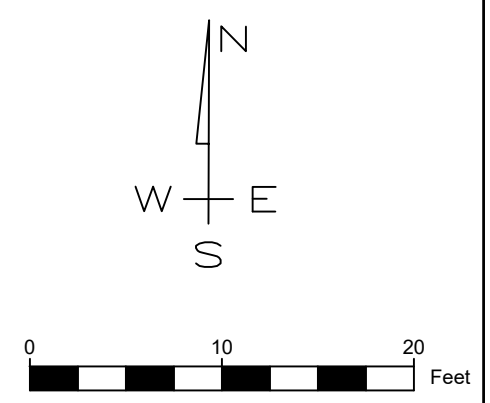
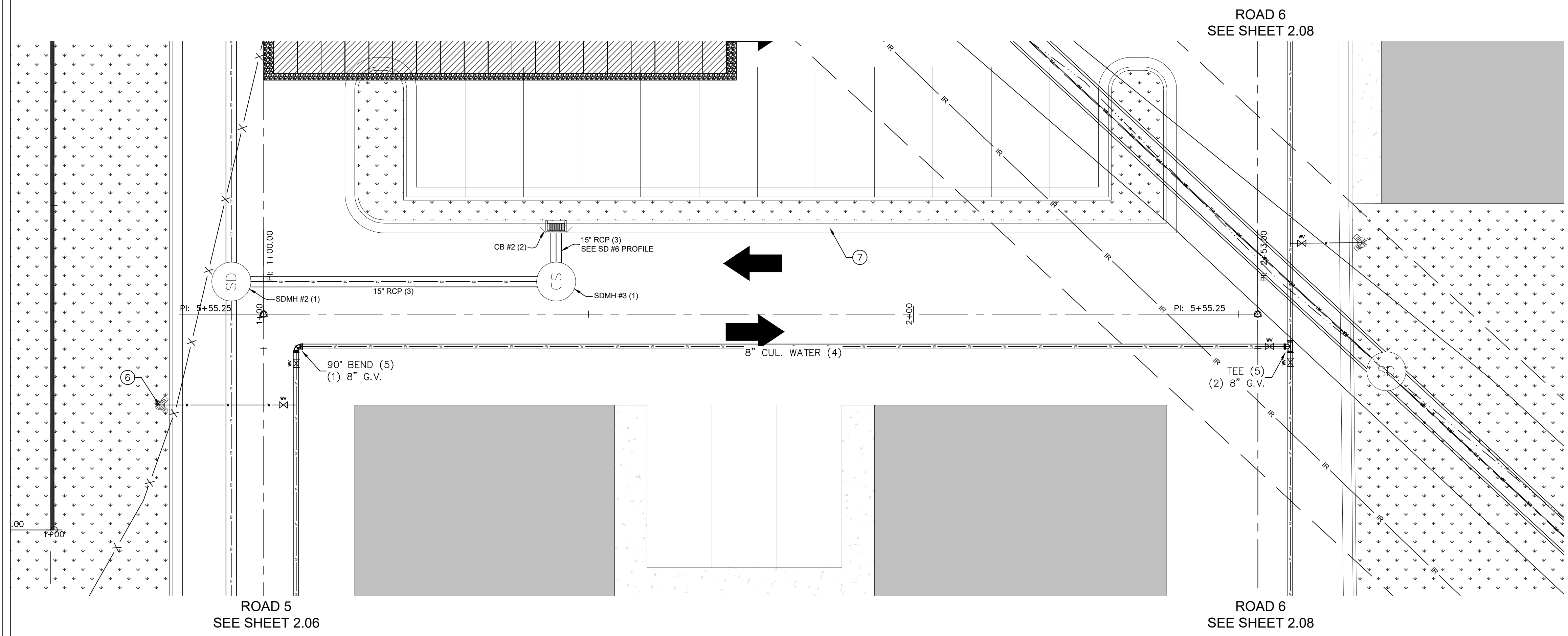
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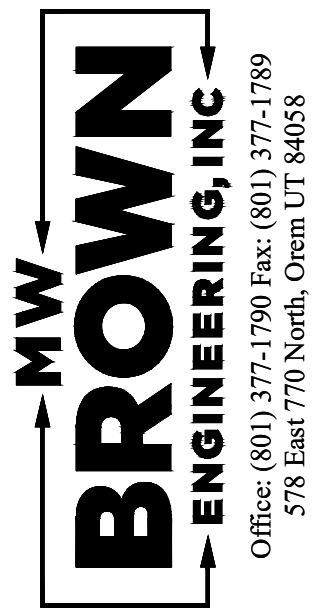
Title: CITADEL SANTAQUIN  
Location: SANTAQUIN, UTAH  
Drawing Name: ROAD 2 P&P

PROJECT NO.  
2023.018

SHEET NO.  
2.03

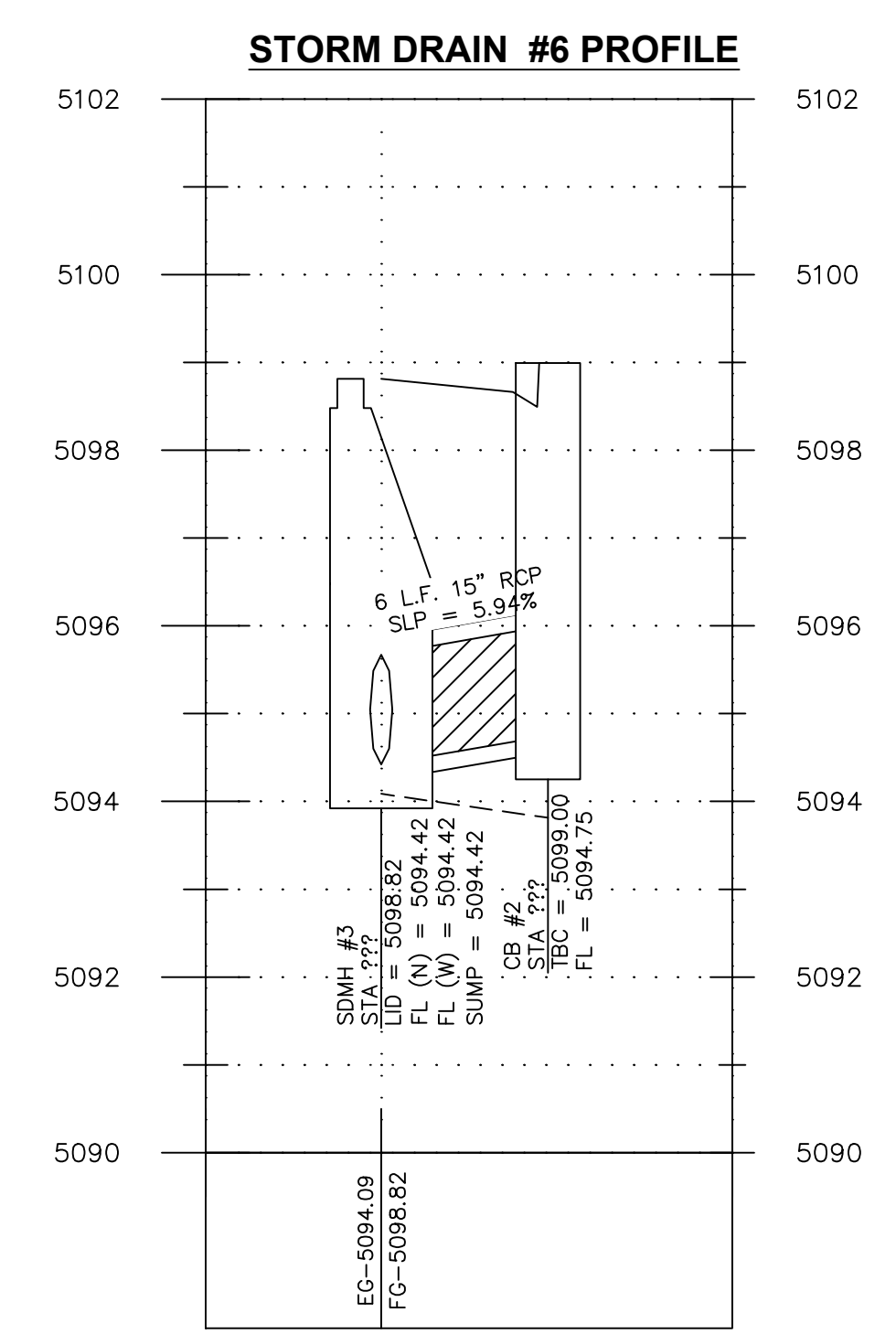
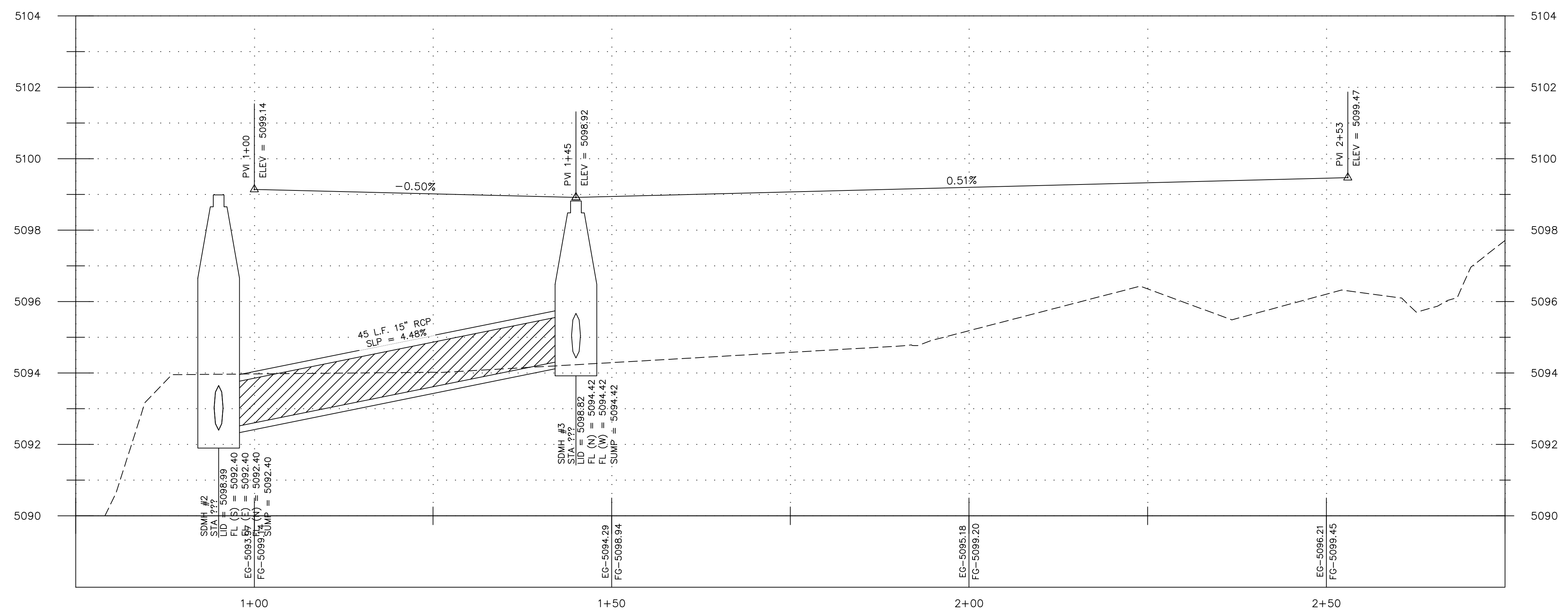


- KEYED NOTES:**
1. INSTALL STORM DRAIN MANHOLE PER CITY STD DWG SD2. SEE DETAIL SHEET 5.01.
  2. INSTALL CATCH BASIN PER CITY STD DWG SD1. SEE DETAIL SHEET 5.01.
  3. INSTALL REINFORCED CONCRETE PIPE (RCP), SIZE PER PLAN. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG UT3. SEE DETAIL SHEET 5.01.
  4. INSTALL 8" PVC C900 DR18 CULINARY WATER PIPE WITH 4" (MINIMUM) COVER. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG UT3. SEE DETAIL SHEET 5.01.
  5. INSTALL FITTING PER MANUFACTURERS RECOMMENDATIONS. INSTALL THRUST BLOCK PER APWA PLAT 561. SEE DETAIL SHEET 5.03.
  6. INSTALL FIRE HYDRANT PER CITY STD DWG W2. SEE DETAIL SHEET 5.01.
  7. INSTALL 2' HIGH BACK CURB AND GUTTER PER CITY STD DWG CG4. SEE DETAIL SHEET 5.00.



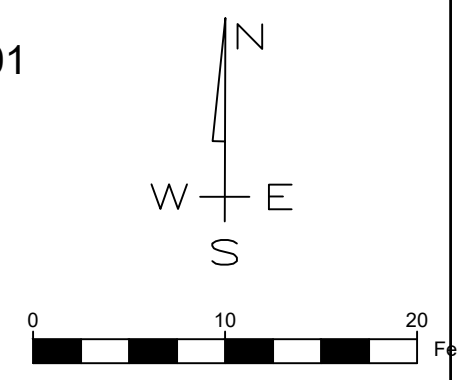
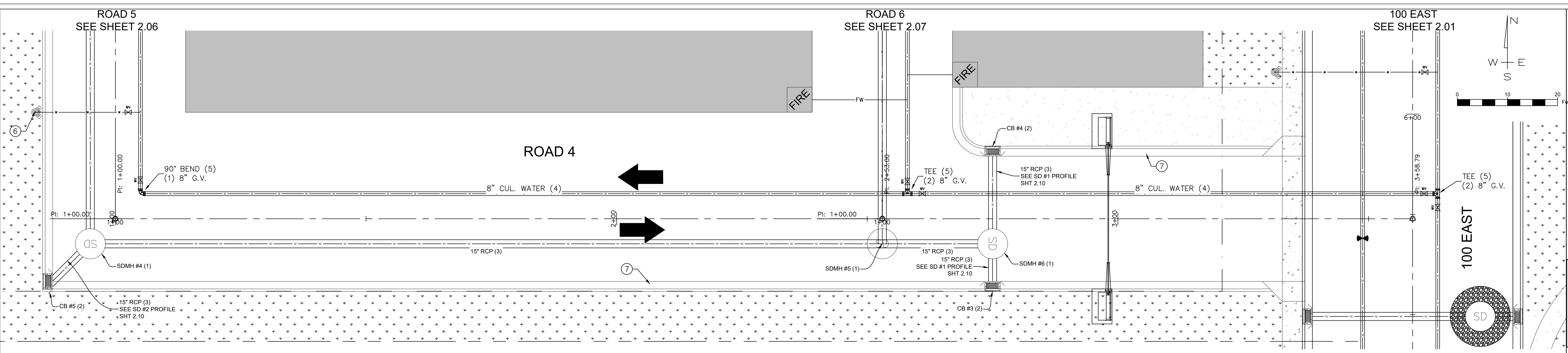
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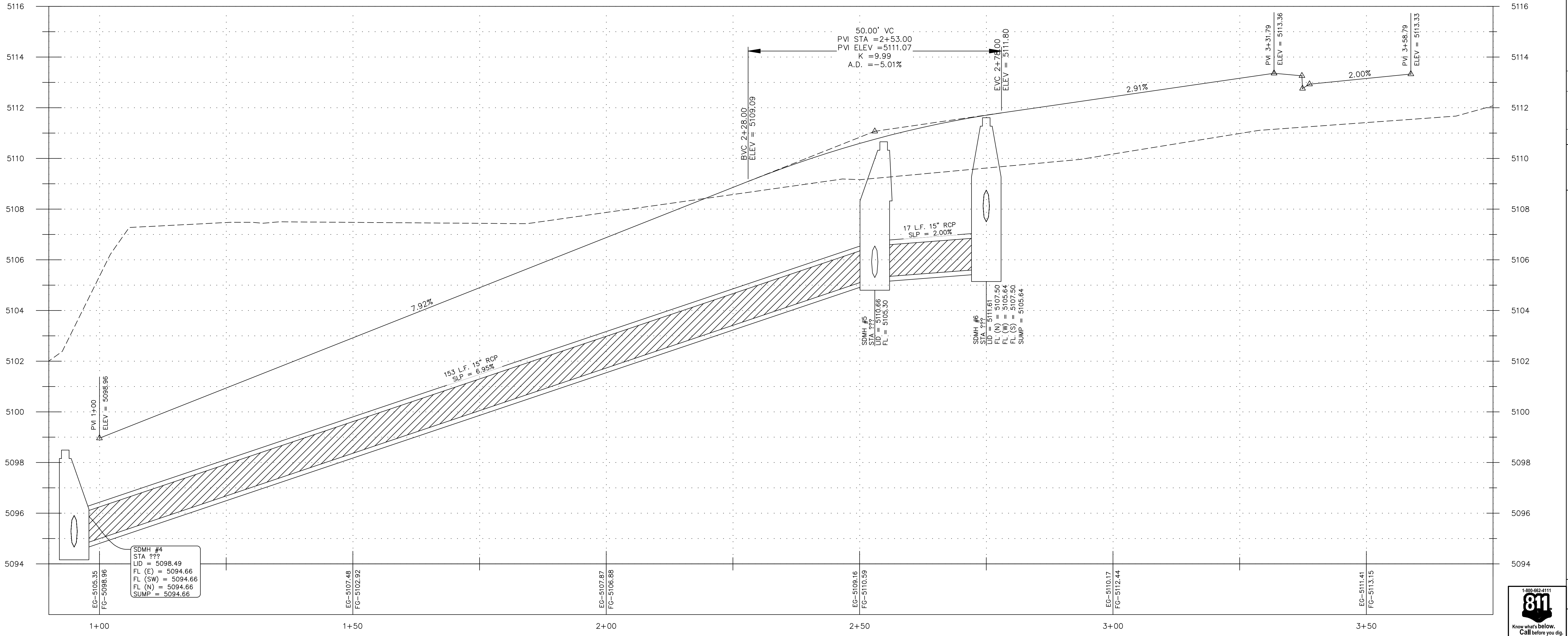


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Title: CITADEL SANTAQUIN  
 Location: SANTAQUIN, UTAH  
 Drawing Name: ROAD 3 P&P  
 PROJECT NO. 2023.018  
 SHEET NO. 2.04



- KEYED NOTES:**
1. INSTALL STORM DRAIN MANHOLE PER CITY STD DWG SD2. SEE DETAIL SHEET 5.01.
  2. INSTALL CATCH BASIN PER CITY STD DWG SD1. SEE DETAIL SHEET 5.01.
  3. INSTALL REINFORCED CONCRETE PIPE (RCP). SIZE PER PLAN. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG UT3. SEE DETAIL SHEET 5.01.
  4. INSTALL 8" PVC C900 DR18 CULINARY WATER PIPE WITH 4" (MINIMUM) COVER. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG UT3. SEE DETAIL SHEET 5.01.
  5. INSTALL FITTING PER MANUFACTURERS RECOMMENDATIONS. INSTALL THRUST BLOCK PER APWA PLAT 561. SEE DETAIL SHEET 5.03.
  6. INSTALL FIRE HYDRANT PER CITY STD DWG W2. SEE DETAIL SHEET 5.01.
  7. INSTALL 2" HIGH BACK CURB AND GUTTER PER CITY STD DWG CG4. SEE DETAIL SHEET 5.00.



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 578 East 770 North, Orem UT 84058



No.	Date	By	Notes

Designed: \_\_\_\_\_  
 Drawn: \_\_\_\_\_  
 Checked: \_\_\_\_\_  
 Date: \_\_\_\_\_

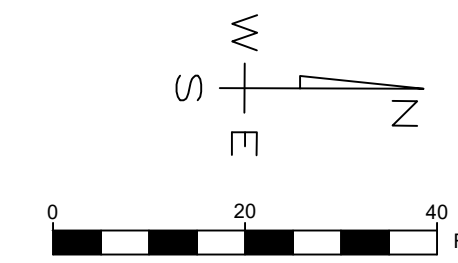
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 Location: **SANTAQUIN, UTAH**  
 Drawing Name: **ROAD 4 P&P**

PROJECT NO. 2023.018  
 SHEET NO. 2.05

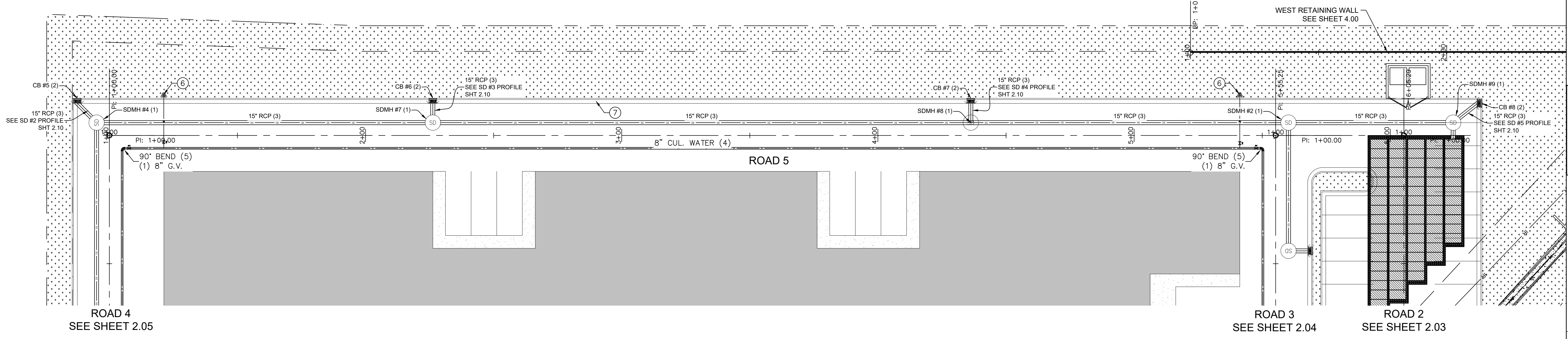
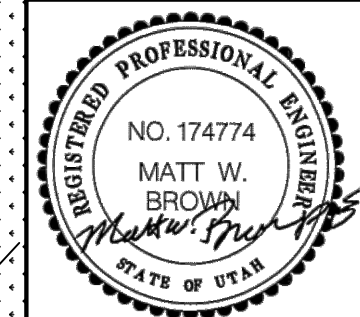




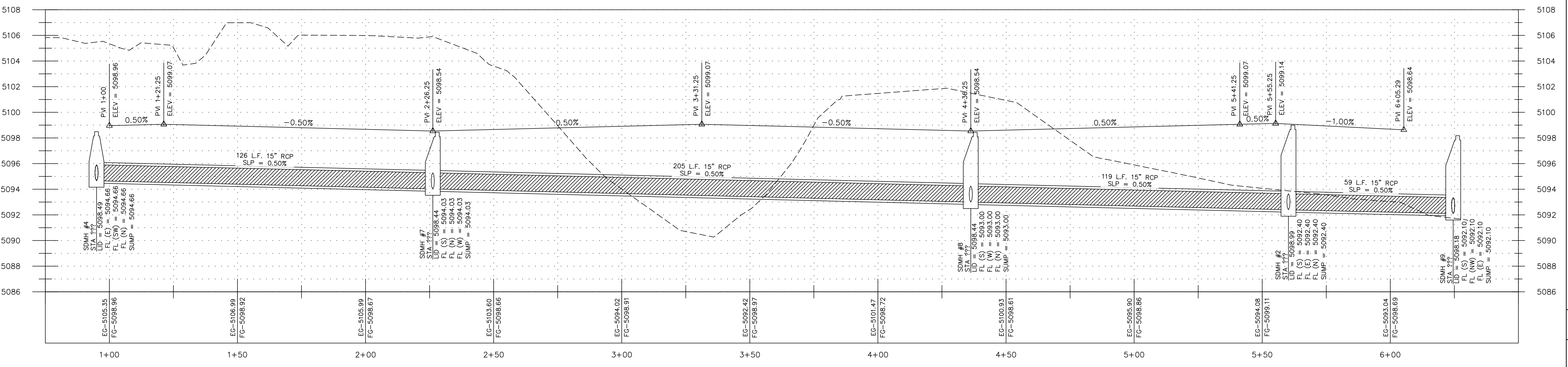
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**MW BROWN ENGINEERING, INC.**  
Office: (801) 377-1790 Fax: (801) 377-1789  
578 East 770 North, Orem UT 84058



- KEYED NOTES:**
1. INSTALL STORM DRAIN MANHOLE PER CITY STD DWG SD2. SEE DETAIL SHEET 5.01.
  2. INSTALL CATCH BASIN PER CITY STD DWG SD1. SEE DETAIL SHEET 5.01.
  3. INSTALL REINFORCED CONCRETE PIPE (RCP), SIZE PER PLAN. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG UT3. SEE DETAIL SHEET 5.01.
  4. INSTALL 8" PVC C900 DR18 CULINARY WATER PIPE WITH 4" (MINIMUM) COVER. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG UT3. SEE DETAIL SHEET 5.01.
  5. INSTALL FITTING PER MANUFACTURERS RECOMMENDATIONS. INSTALL THRUST BLOCK PER APWA PLAT 561. SEE DETAIL SHEET 5.03.
  6. INSTALL FIRE HYDRANT PER CITY STD DWG W2. SEE DETAIL SHEET 5.01.
  7. INSTALL 2' HIGH BACK CURB AND GUTTER PER CITY STD DWG CG4. SEE DETAIL SHEET 5.00.

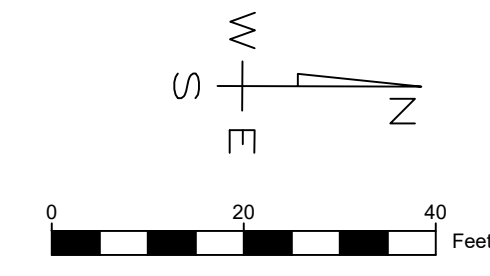


No.	Date	By	Notes

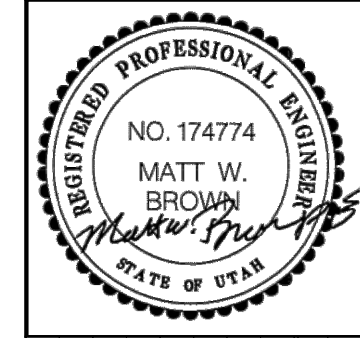
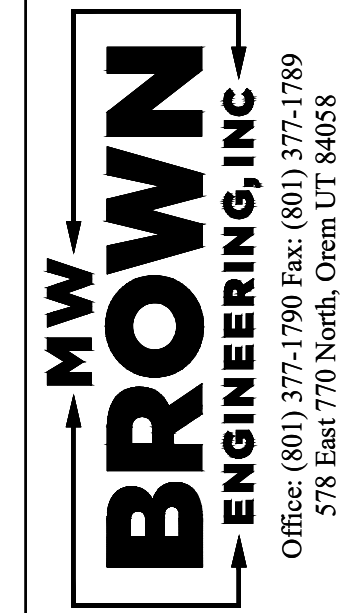
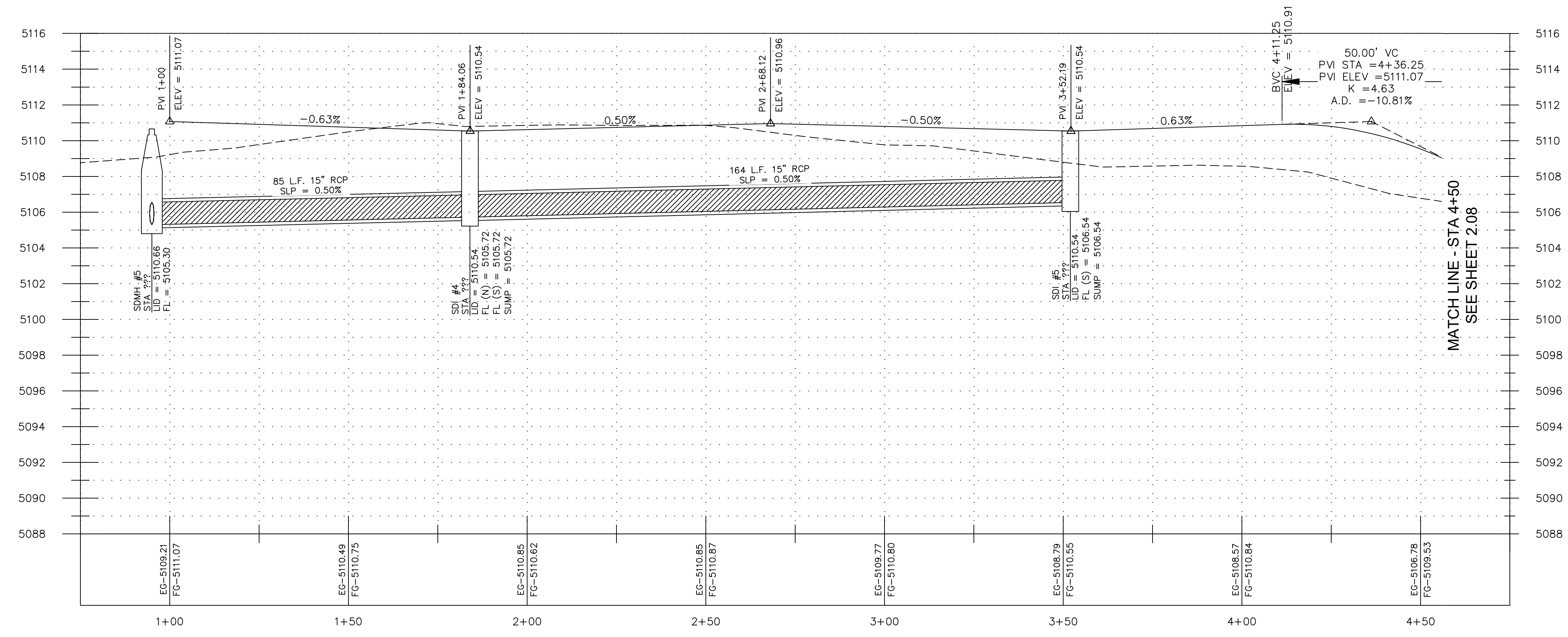
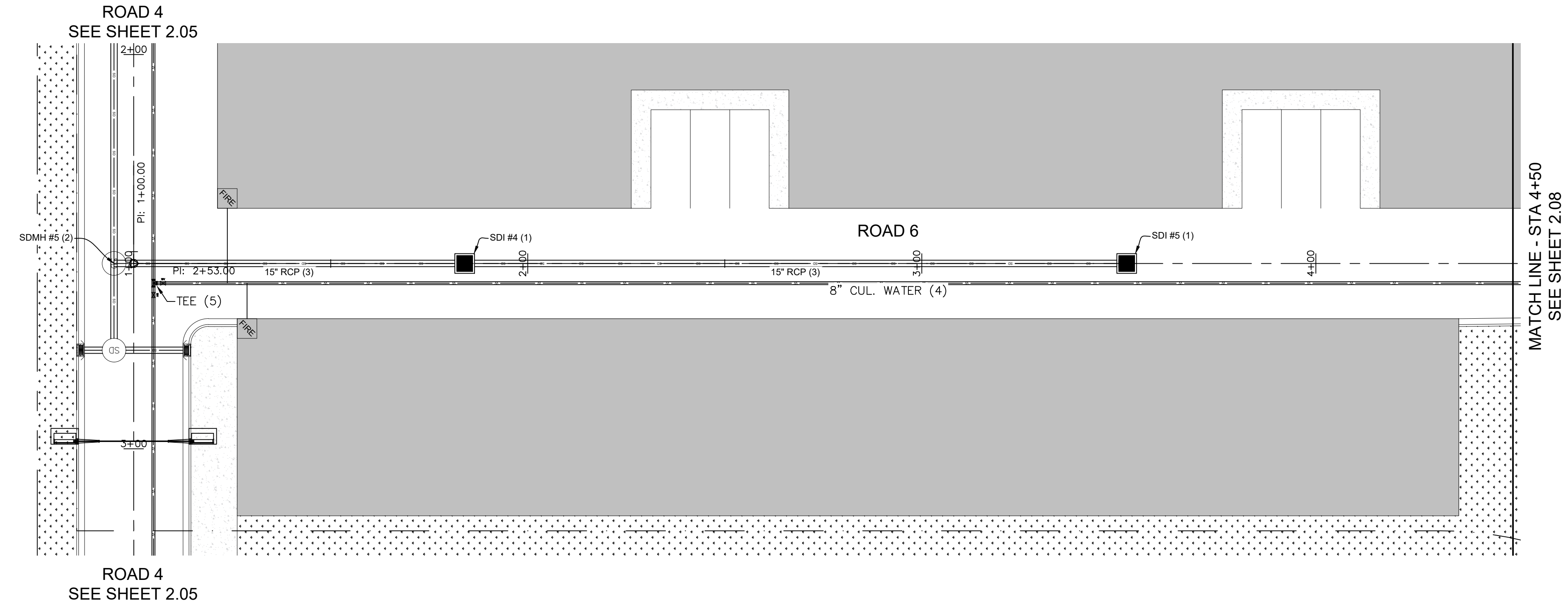
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Drawn: \_\_\_\_\_  
Checked: \_\_\_\_\_  
Date: \_\_\_\_\_

Title: **CITADEL SANTAQUIN**  
Location: **SANTAQUIN, UTAH**  
Drawing Name: **ROAD 5 P&P**

PROJECT NO. 2023.018  
SHEET NO. 2.06



- KEYED NOTES:**
1. INSTALL PRECAST 4'X4' STORM DRAIN INLET BOX PER APWA PLAN 332 WITH GRATE LID. SEE DETAIL SHEET 5.02.
  2. INSTALL STORM DRAIN MANHOLE PER CITY STD DWG SD2. SEE DETAIL SHEET 4.01.
  3. INSTALL REINFORCED CONCRETE PIPE (RCP), SIZE PER PLAN. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG UT3. SEE DETAIL SHEET 5.01.
  4. INSTALL 8" PVC C900 DR18 CULINARY WATER PIPE WITH 4" (MINIMUM) COVER. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG UT3. SEE DETAIL SHEET 5.01.
  5. INSTALL FITTING PER MANUFACTURERS RECOMMENDATIONS. INSTALL THRUST BLOCK PER APWA PLAT 561. SEE DETAIL SHEET 5.03.



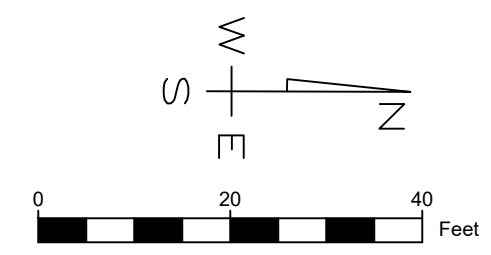
No.	Date	By	Notes

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 Date: \_\_\_\_\_

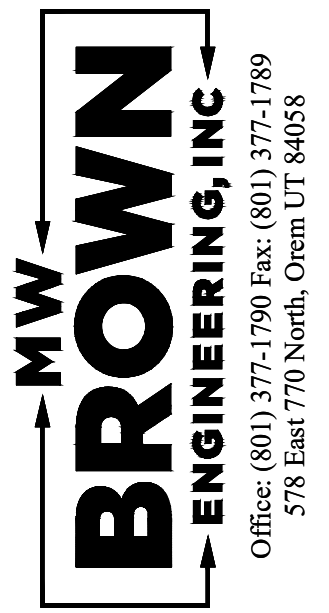
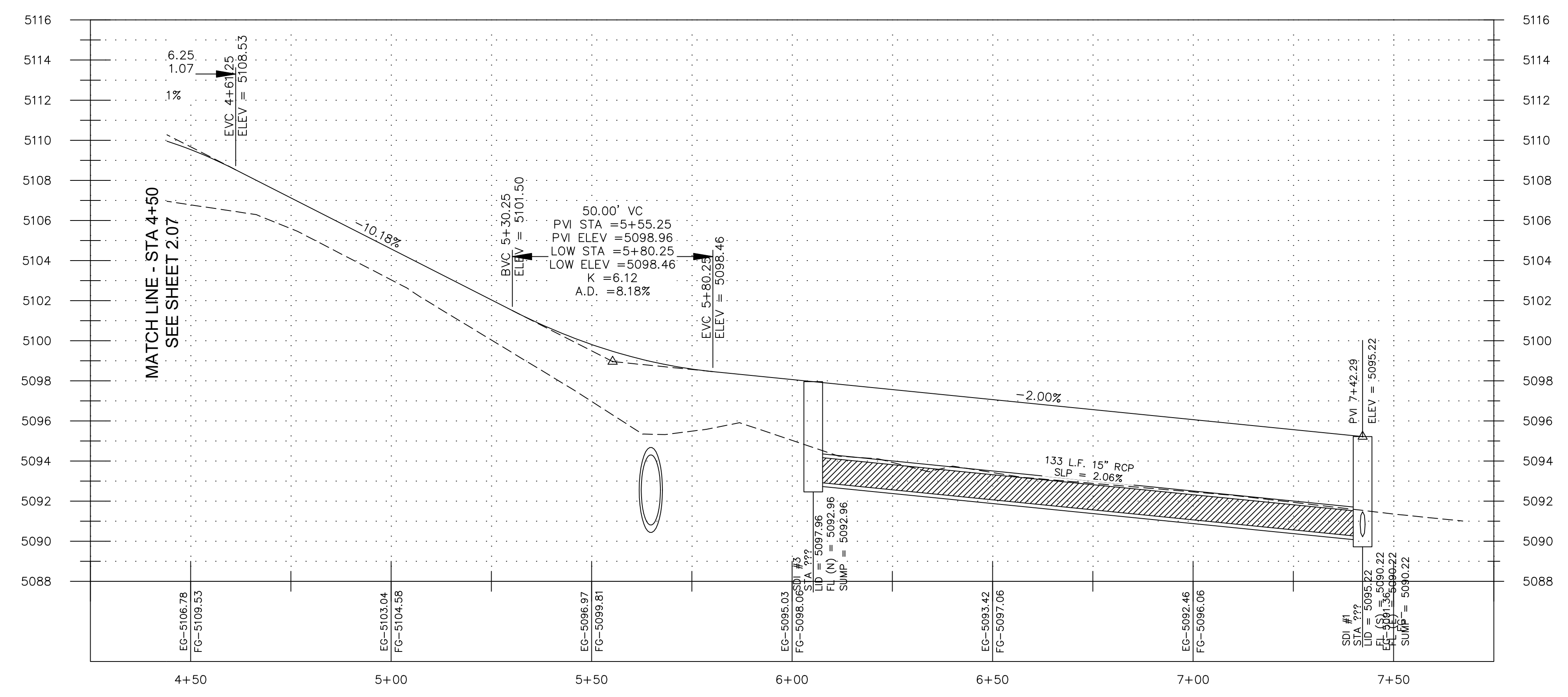
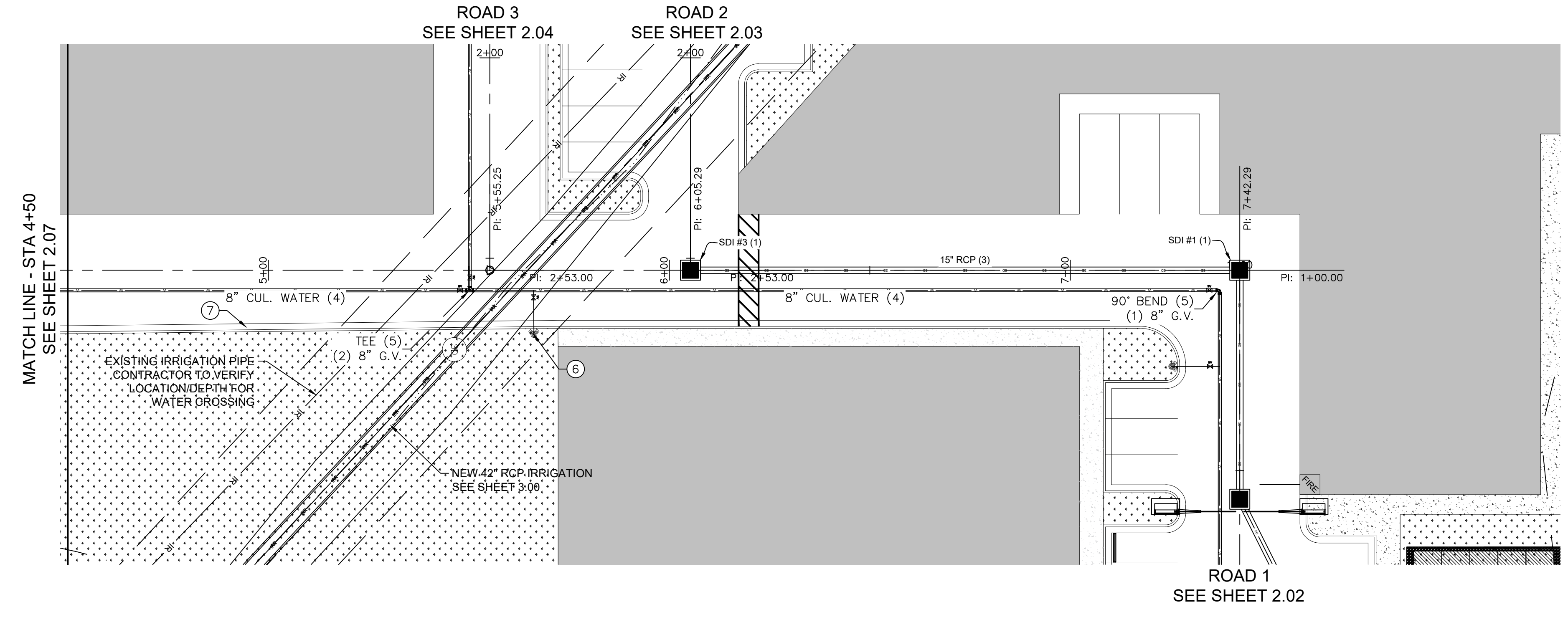
Title: CITADEL SANTAQUIN  
 Location: SANTAQUIN, UTAH  
 Drawing Name: ROAD 6 P&P

PROJECT NO. 2023.018  
 SHEET NO. 2.07





- KEYED NOTES:**
1. INSTALL PRECAST 4'X4' STORM DRAIN INLET BOX PER APWA PLAN 332 WITH GRATE LID. SEE DETAIL SHEET 5.02.
  2. NOT USED
  3. INSTALL REINFORCED CONCRETE PIPE (RCP). SIZE PER PLAN. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG UT3. SEE DETAIL SHEET 5.01.
  4. INSTALL 8" PVC C900 DR18 CULINARY WATER PIPE WITH 4" (MINIMUM) COVER. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG UT3. SEE DETAIL SHEET 5.01.
  5. INSTALL FITTING PER MANUFACTURERS RECOMMENDATIONS. INSTALL THRUST BLOCK PER APWA PLAT 561. SEE DETAIL SHEET 5.03.
  6. INSTALL FIRE HYDRANT PER CITY STD DWG W2. SEE DETAIL SHEET 5.01.
  7. INSTALL 2' FALLOUT CURB AND GUTTER. SEE DETAIL SHEET 5.00.



No.	Date	By	Notes

Designed: \_\_\_\_\_  
 Drawn: \_\_\_\_\_  
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 Date: \_\_\_\_\_

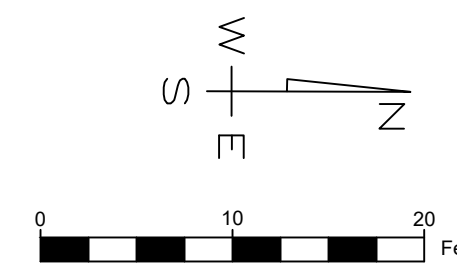
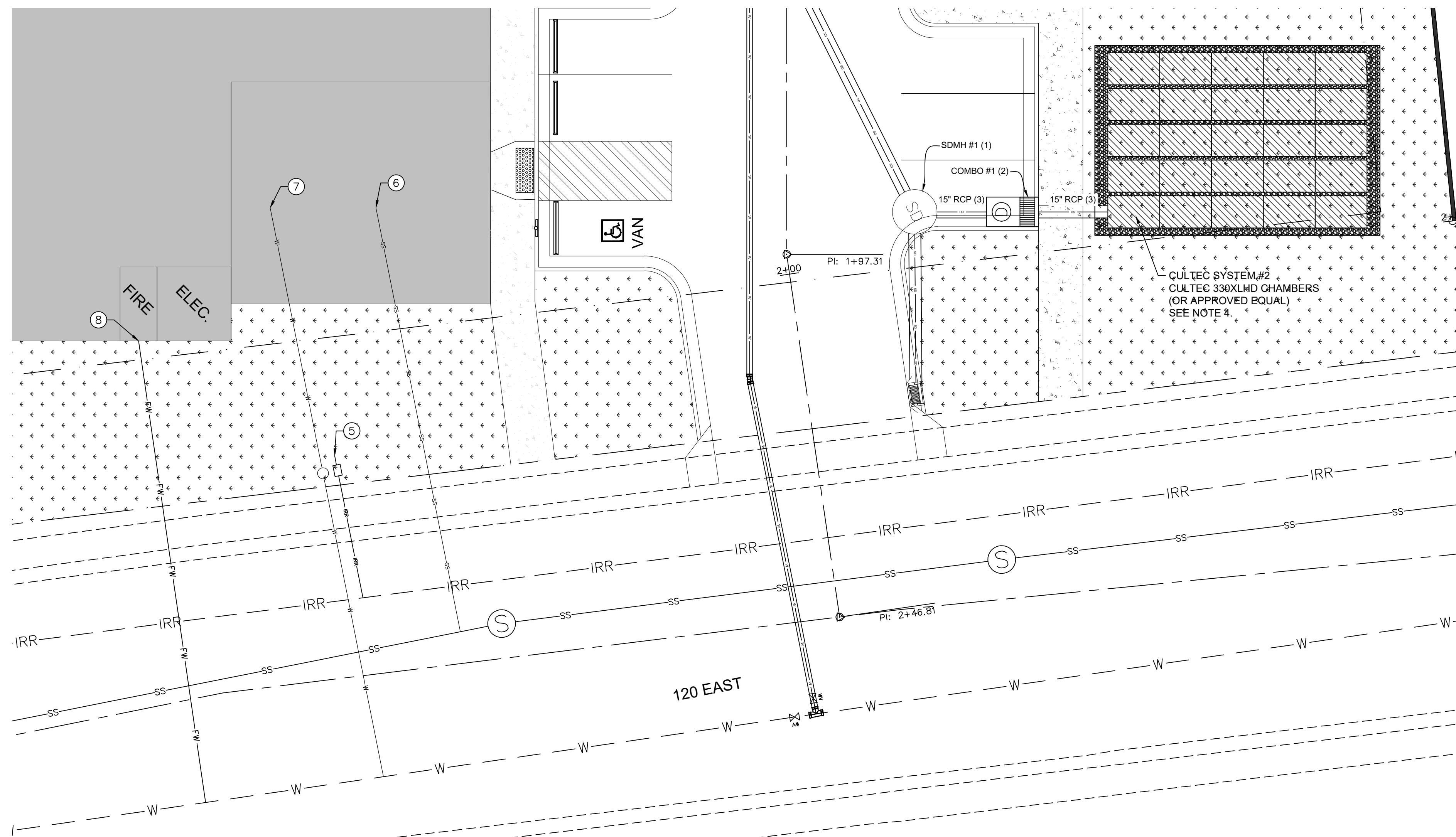
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 Location: SANTAQUIN, UTAH  
 Drawing Name: ROAD 6 P&P

PROJECT NO.  
2023.018  
 SHEET NO.  
2.08

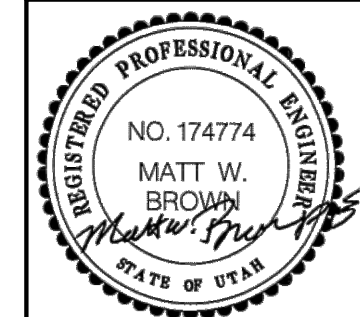
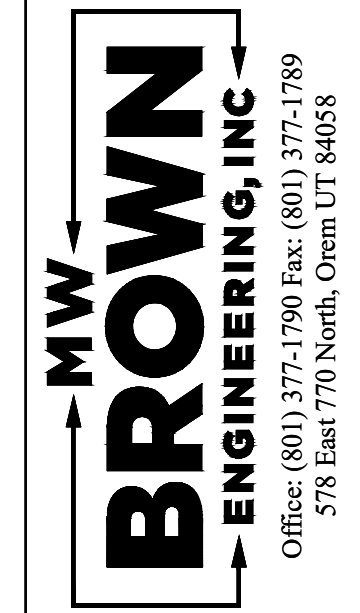




ROAD 1  
SEE SHEET 2.02

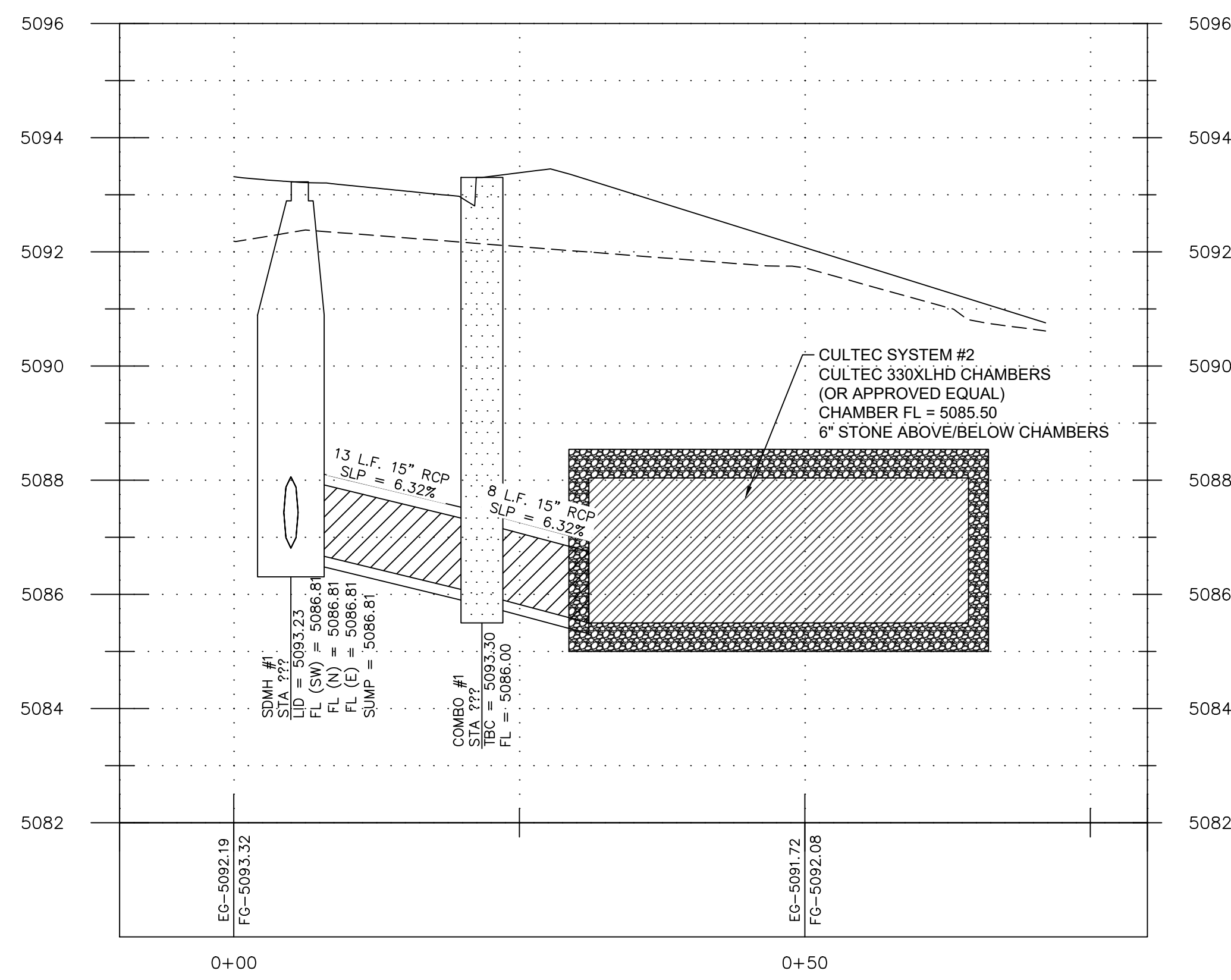


- KEYED NOTES:**
1. INSTALL STORM DRAIN MANHOLE PER CITY STD DWG SD2. SEE DETAIL SHEET 4.01.
  2. INSTALL COMBINATION BOX PER APWA PLAN 316. SEE DETAIL SHEET 4.02.
  3. INSTALL REINFORCED CONCRETE PIPE (RCP). SIZE PER PLAN. TRENCH AND BACKFILL PIPELINE PER CITY STD DWG U73. SEE DETAIL SHEET 4.01.
  4. UNDERGROUND RETENTION SYSTEM AREA. PROPOSED CULTREC RECHARGER 330XLHD CHAMBERS (35) WITH SEPARATOR ROW AND 6" STONE ABOVE/BELOW CHAMBERS. DETAIL DRAWINGS OF SYSTEM TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. CULTREC DETAILS PROVIDED ON SHEET 4.05 ARE FOR REFERENCE ONLY.
  5. INSTALL 1" PRESSURE IRRIGATION SERVICE LATERAL AND METER BOX PER CITY STD DWGS PI1 & PI 2. SEE DETAILS SHEET 4.00.
  6. INSTALL 4" SEWER LATERAL @ 2.0% MIN. SLOPE PER CITY STD DWG S2. SEE DETAIL SHEET 4.01.
  7. INSTALL 1" CULINARY WATER SERVICE PER CITY STD DWG W1. SEE DETAIL SHEET 4.01.
  8. INSTALL 4" FIRE LINE PER FIRER RISER DETAIL. SEE DETAIL SHEET 4.02.



No.	Date	By	Notes

Designed: \_\_\_\_\_  
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 Checked: \_\_\_\_\_  
 Date: \_\_\_\_\_



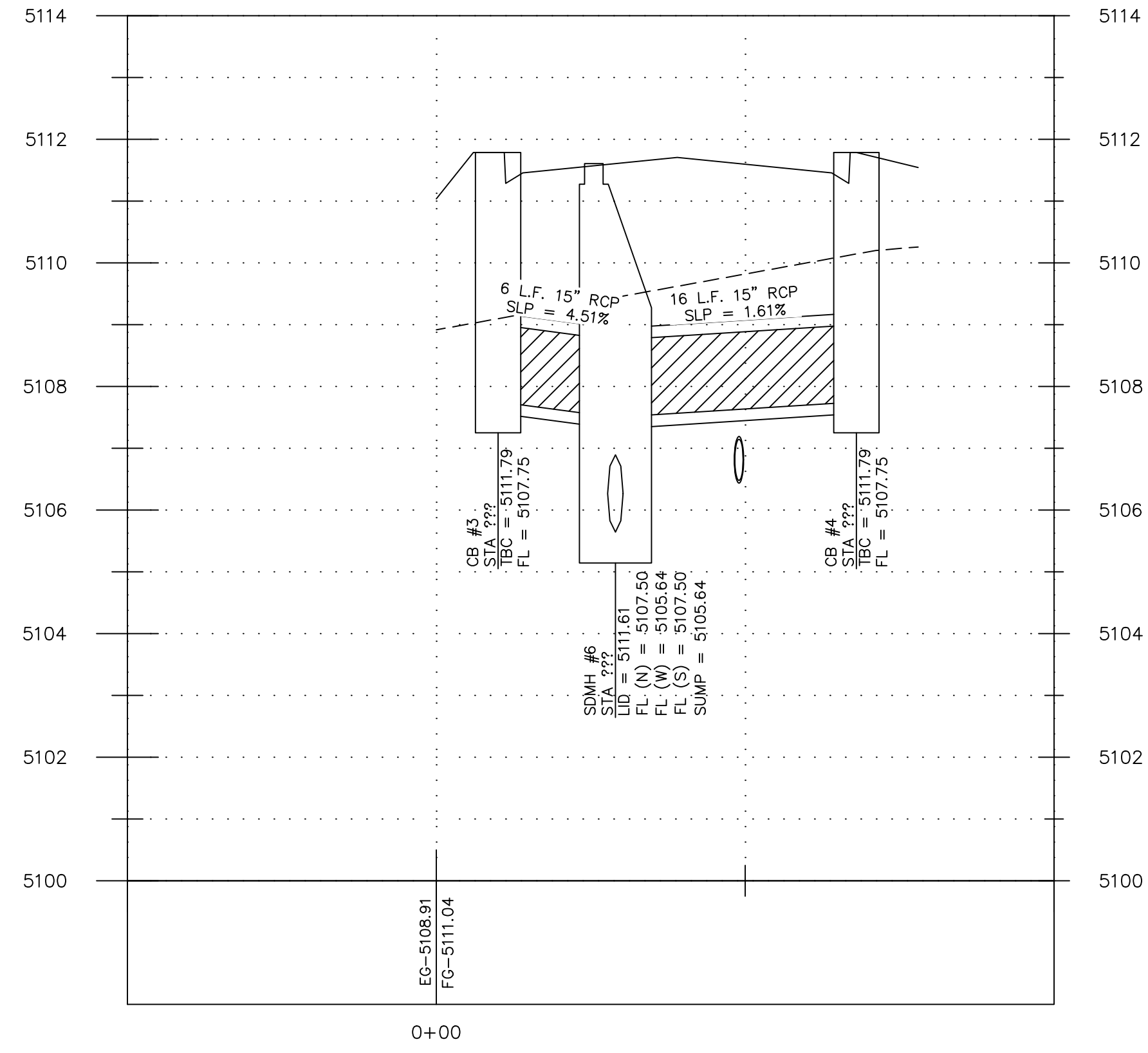
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**811**  
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 Location: SANTAQUIN, UTAH  
 Drawing Name: CULTREC SYSTEM #2 P&P

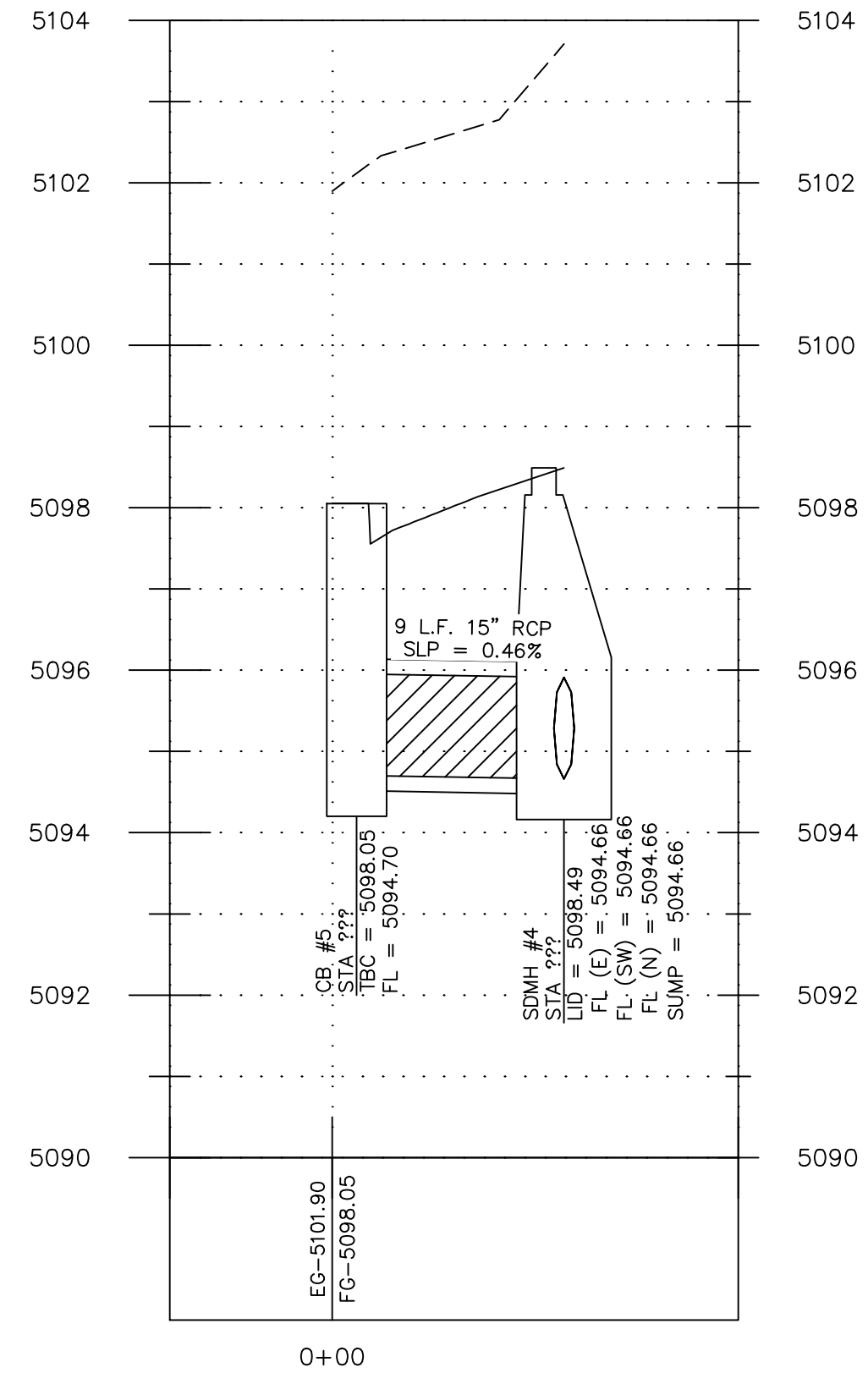
PROJECT NO.  
2023.018

SHEET NO.  
2.09

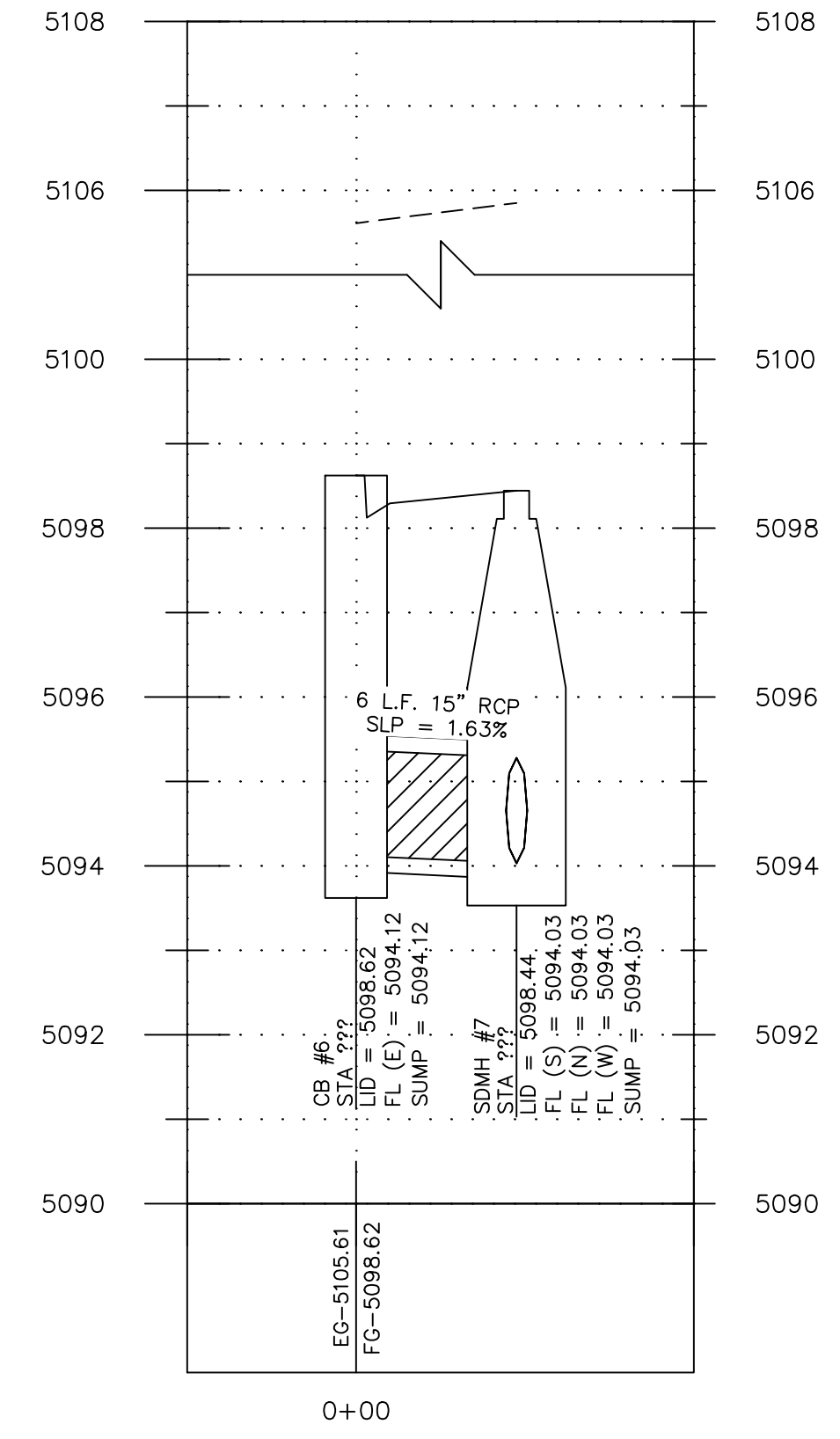
STORM DRAIN #1 PROFILE  
(PLAN VIEW SHEET 2.05)



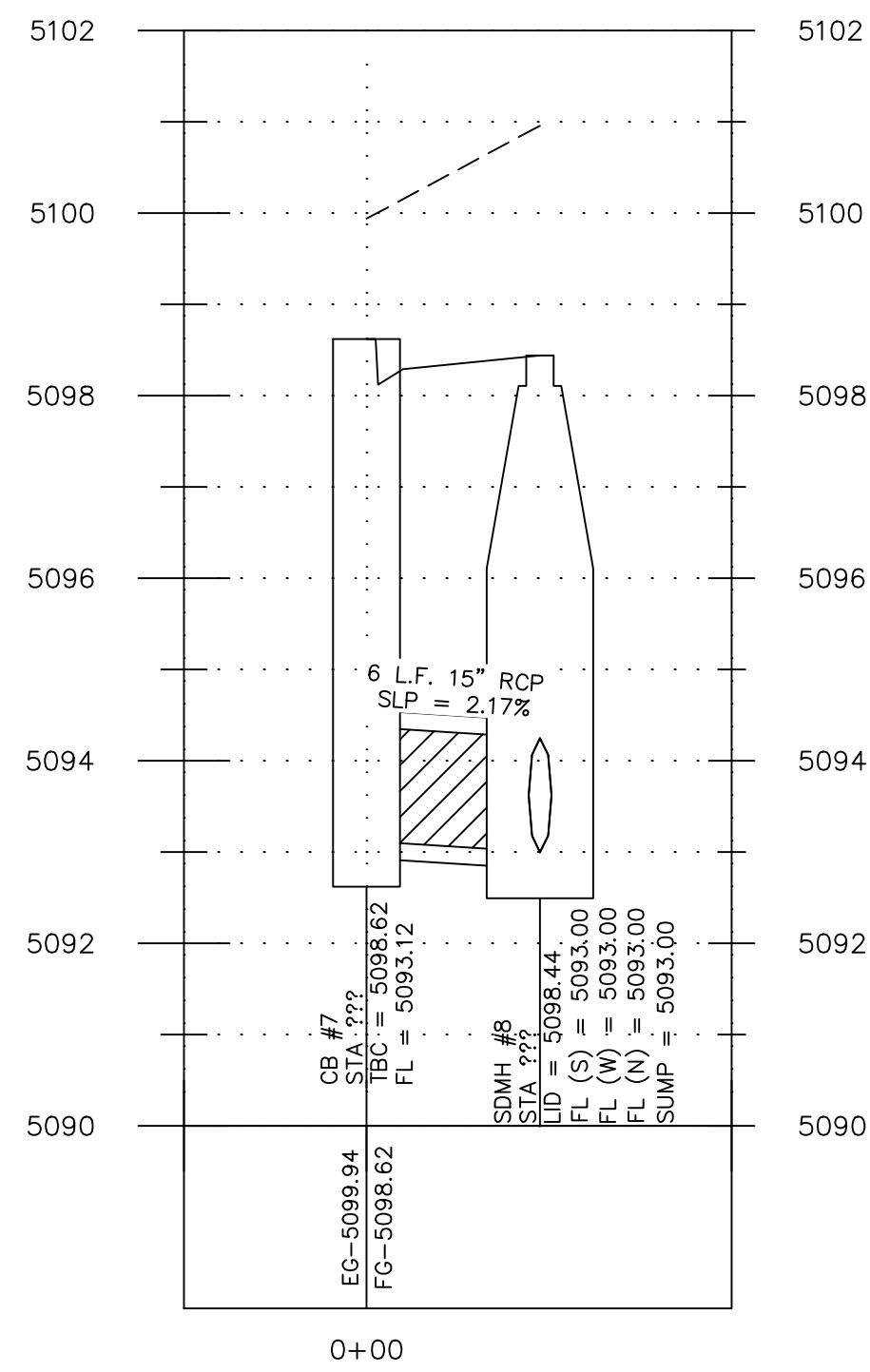
STORM DRAIN #2 PROFILE  
(PLAN VIEW SHEET 2.05 & 2.06)



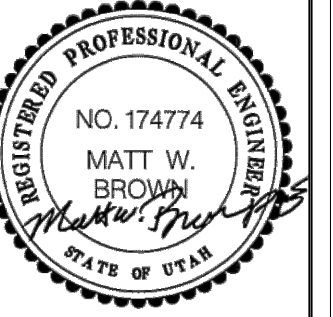
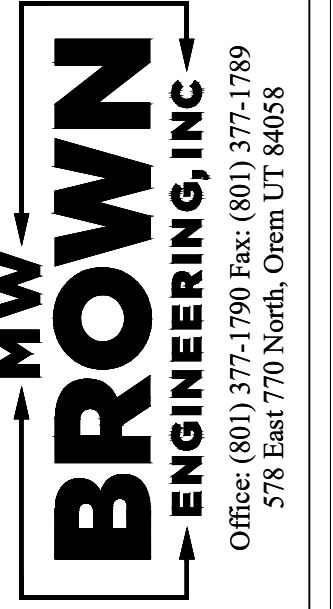
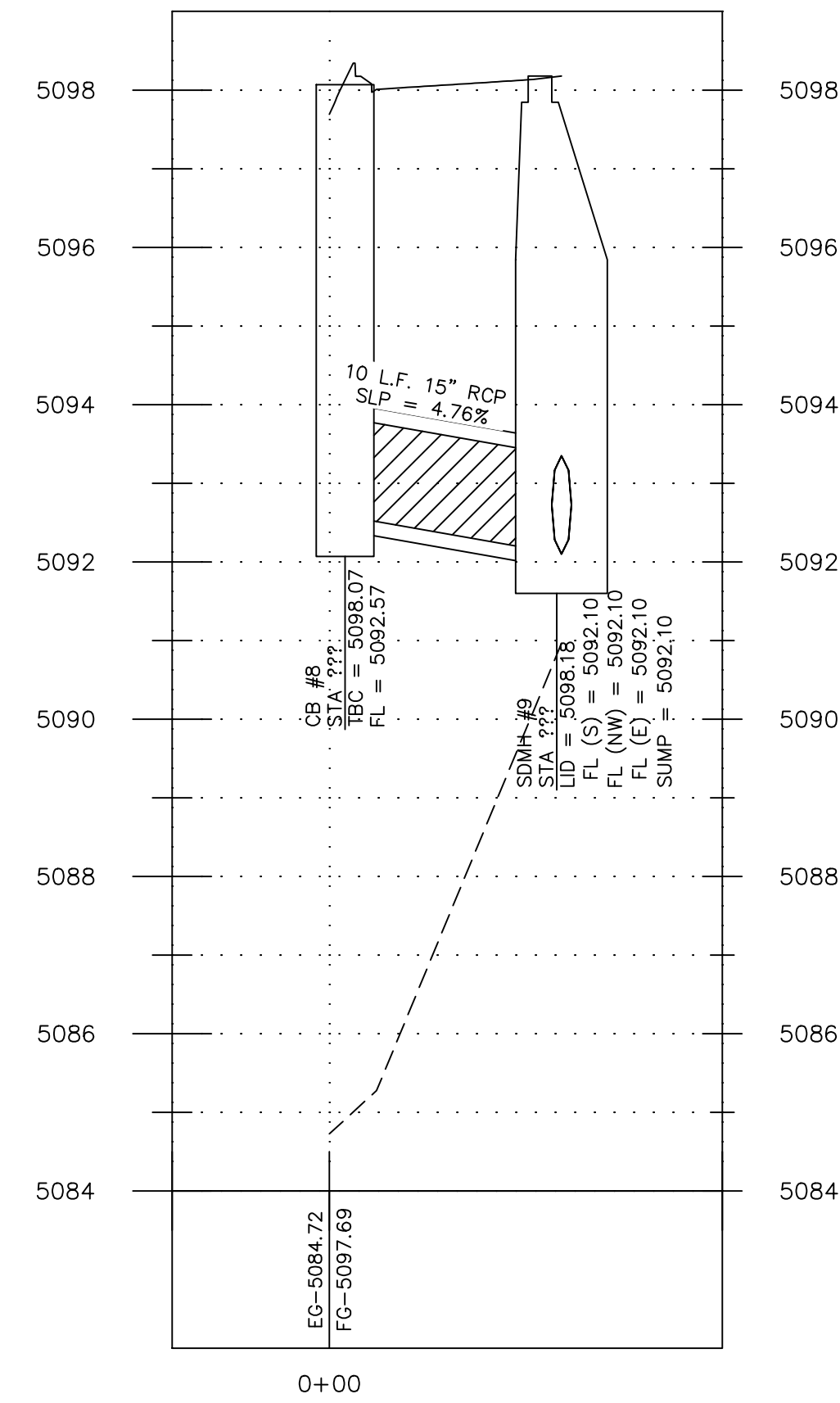
STORM DRAIN #3 PROFILE  
(PLAN VIEW SHEET 2.06)



STORM DRAIN #4 PROFILE  
(PLAN VIEW SHEET 2.06)



STORM DRAIN #5 PROFILE  
(PLAN VIEW SHEET 2.03 & 2.06)



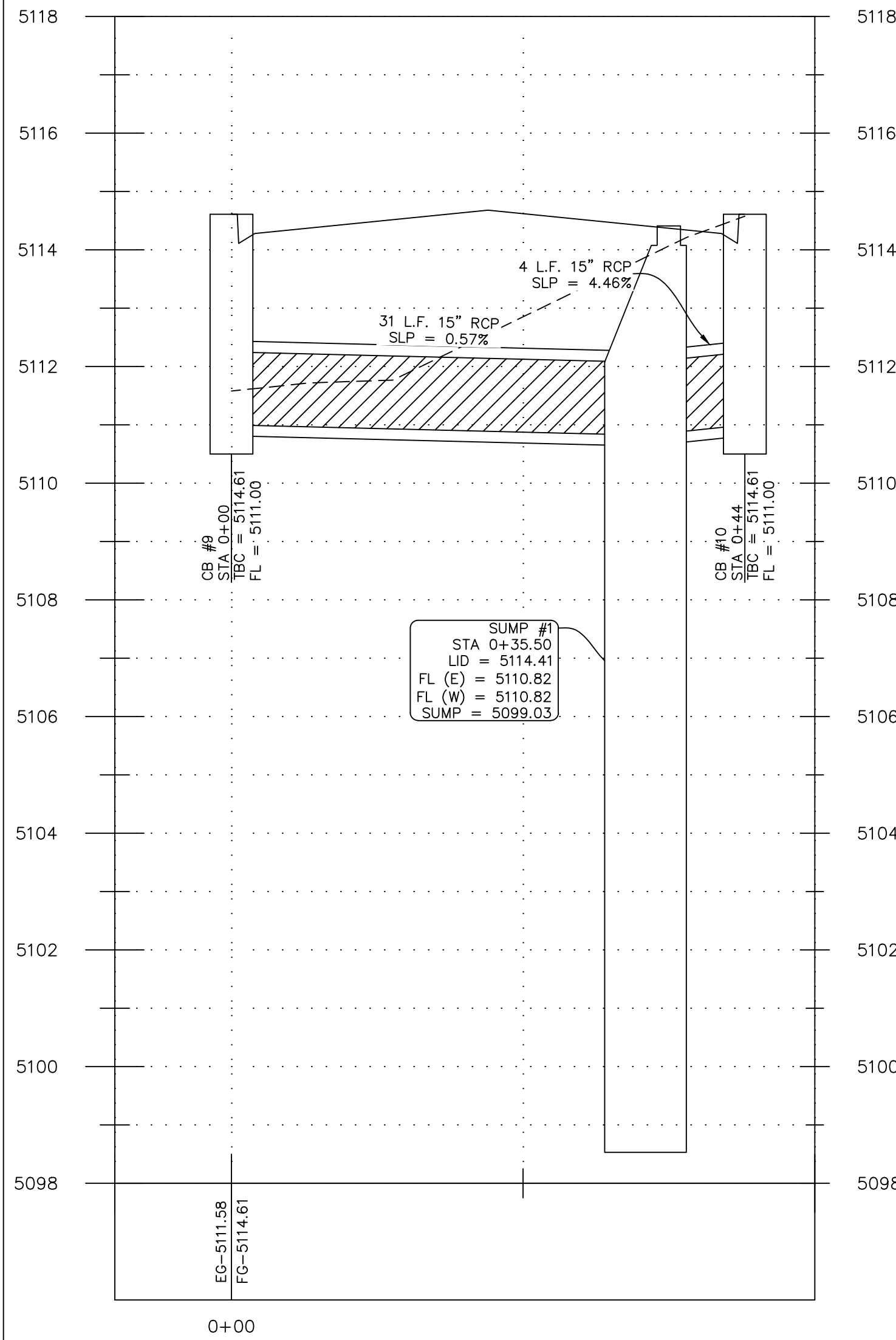
No.	Date	By	Notes

Designed: \_\_\_\_\_  
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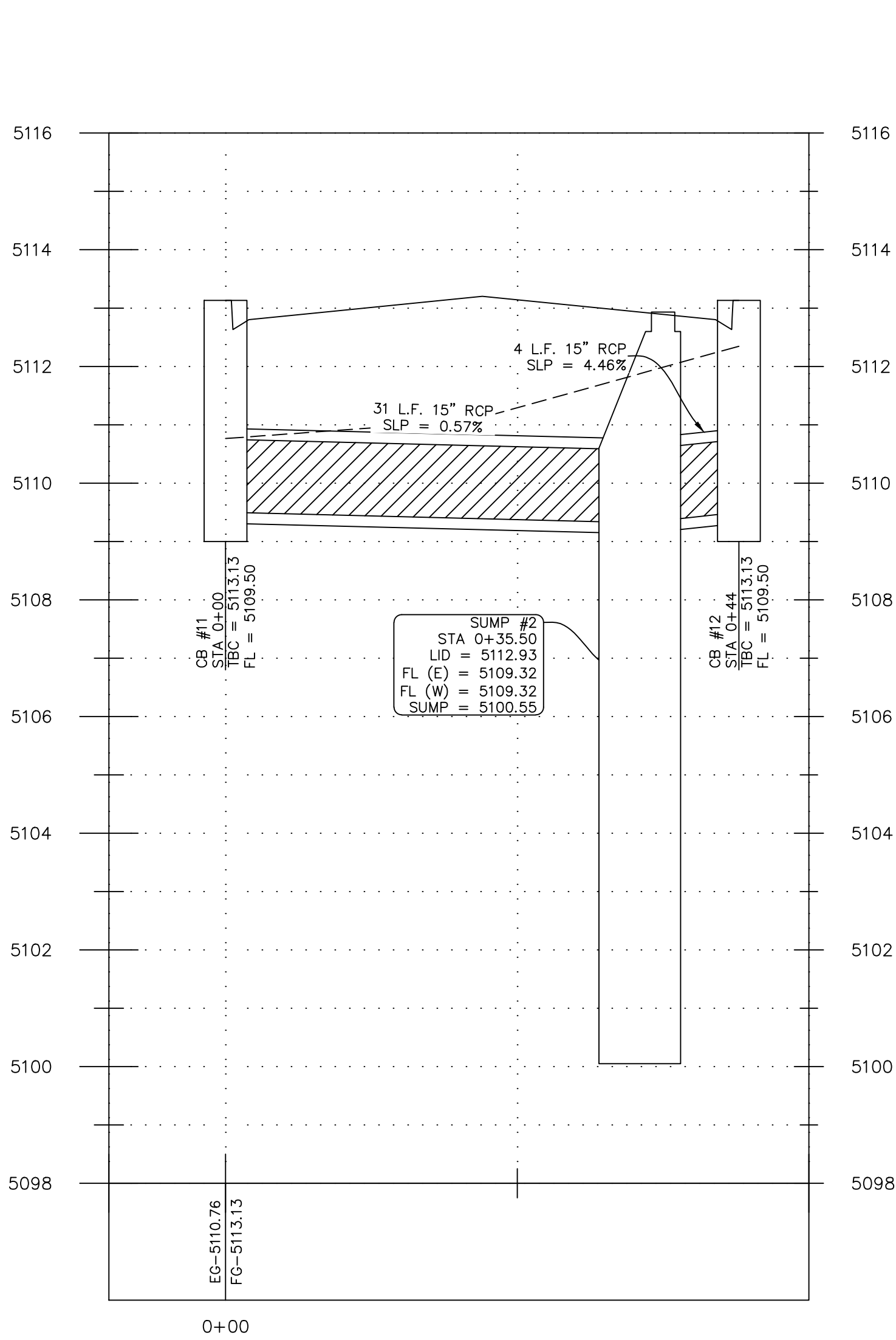
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 Location: **SANTAQUIN, UTAH**  
 Drawing Name: **STORM DRAIN PROFILES**

PROJECT NO.  
2023.018  
 SHEET NO.  
**2.10**

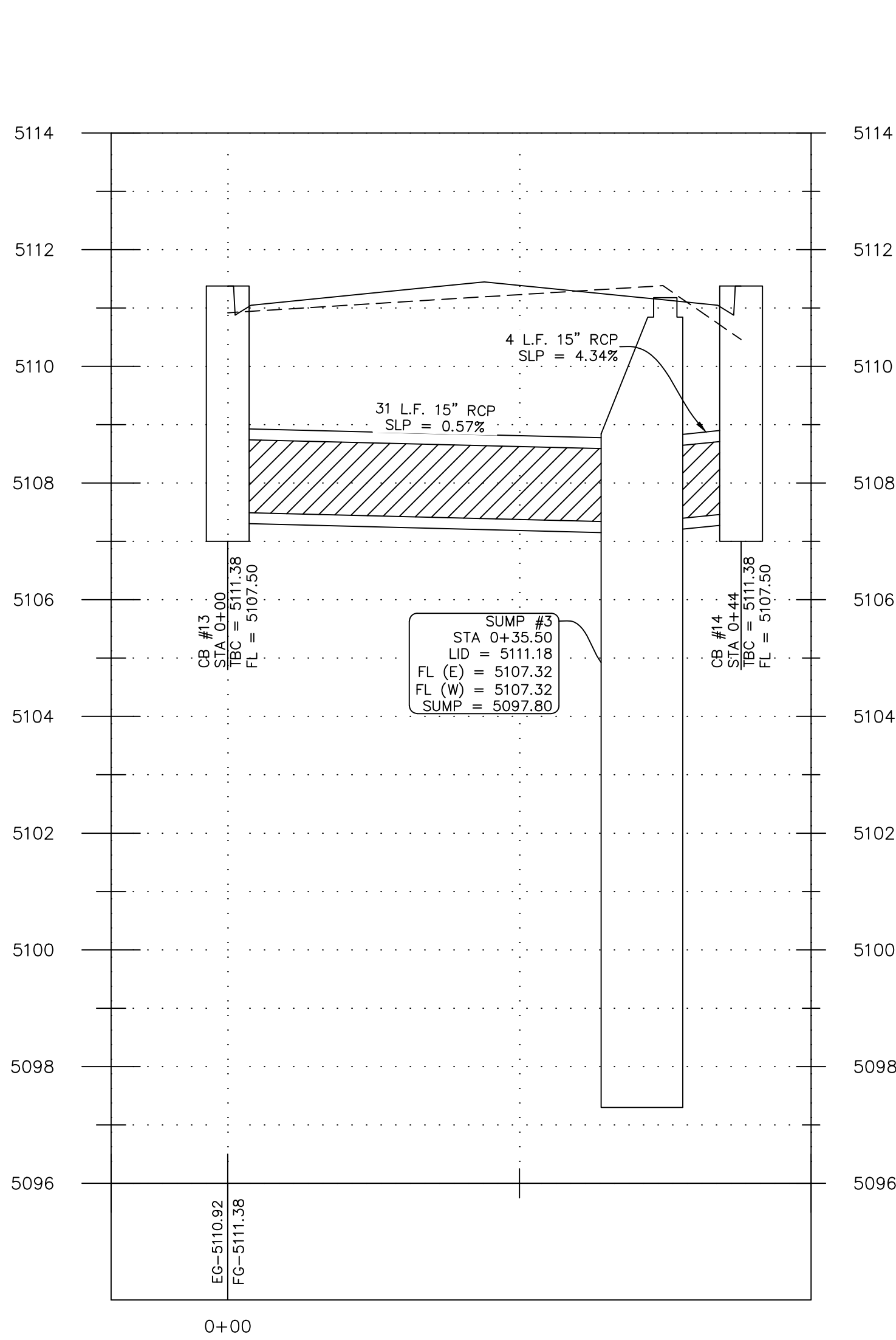
SUMP #1 PROFILE  
(PLAN VIEW SHEET 2.00)



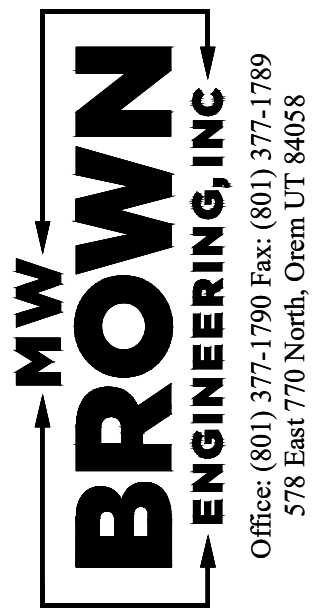
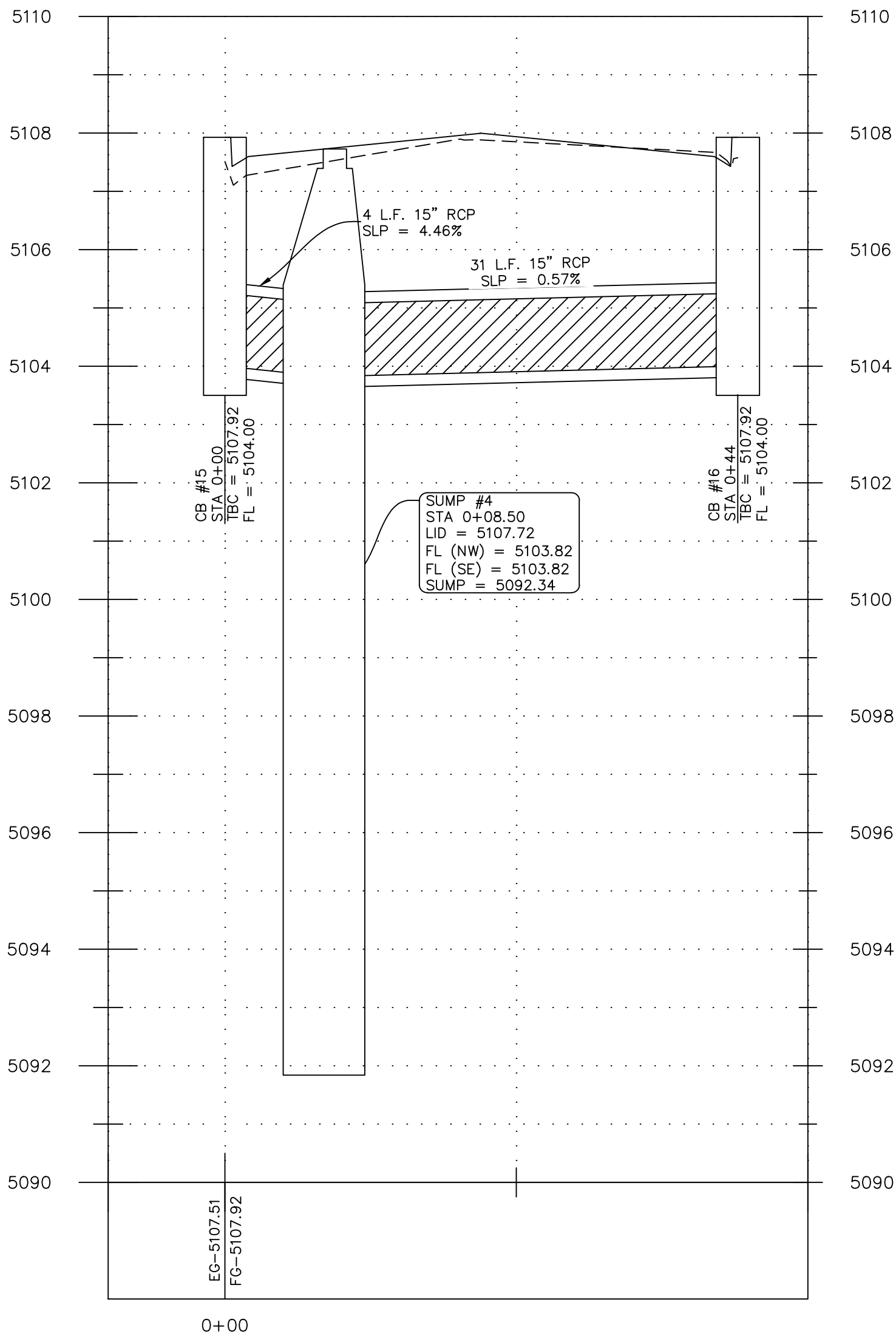
SUMP #2 PROFILE  
(PLAN VIEW SHEET 2.00)



SUMP #3 PROFILE  
(PLAN VIEW SHEET 2.01)



SUMP #4 PROFILE  
(PLAN VIEW SHEET 2.01)

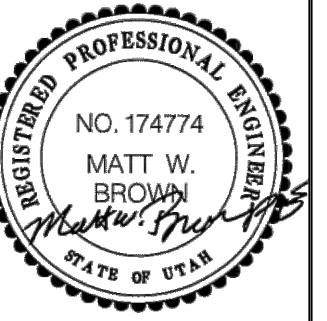
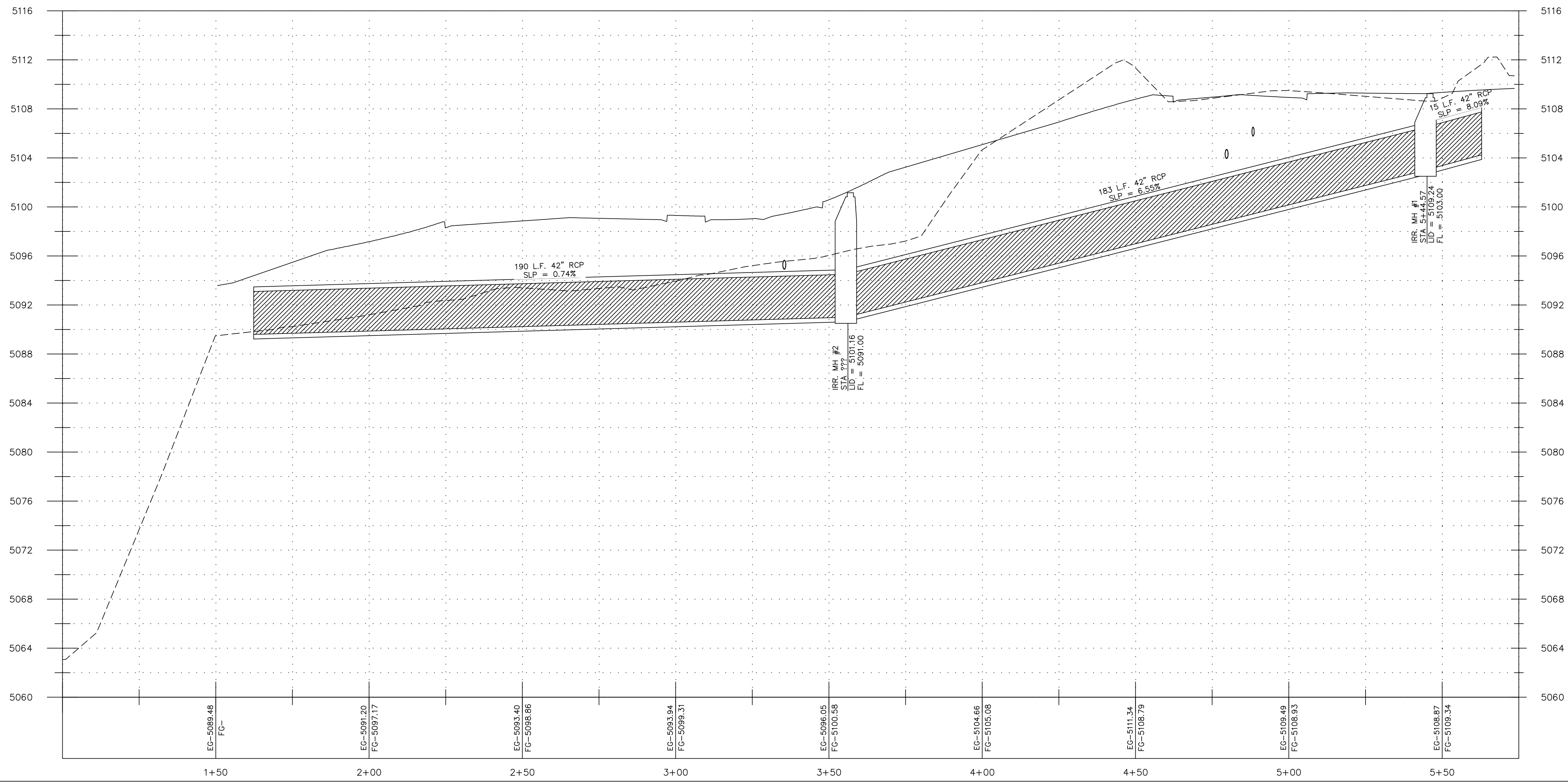
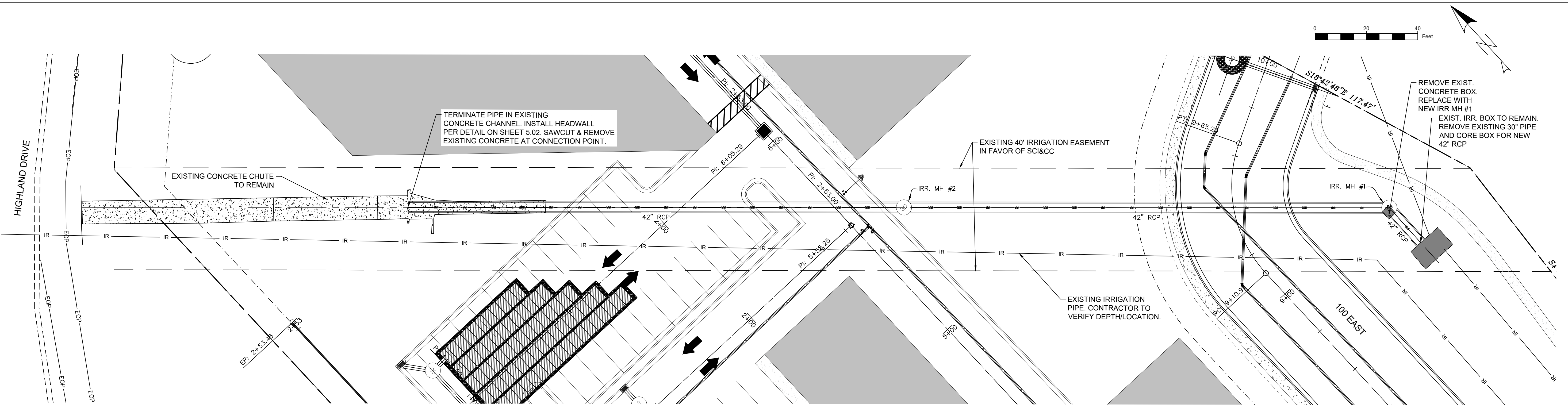


No.	Date	By	Notes

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 Checked: \_\_\_\_\_  
 Date: \_\_\_\_\_

Title: CITADEL SANTAQUIN  
 Location: SANTAQUIN, UTAH  
 Drawing Name: STORM DRAIN PROFILES

PROJECT NO.  
2023.018  
 SHEET NO.  
2.11



No.	Date	By	REVISIONS

Designed: \_\_\_\_\_  
 Drawn: \_\_\_\_\_  
 Checked: \_\_\_\_\_  
 Date: \_\_\_\_\_

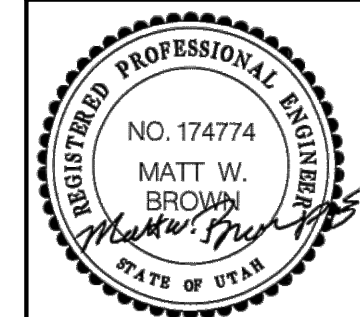
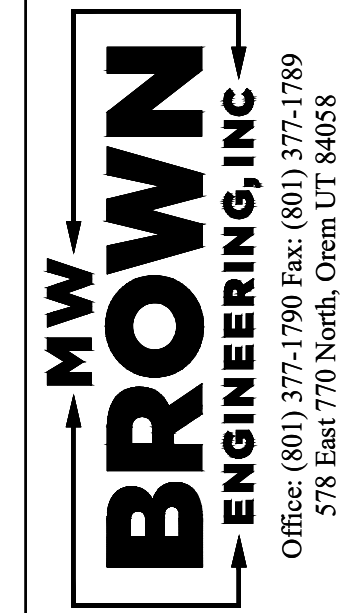
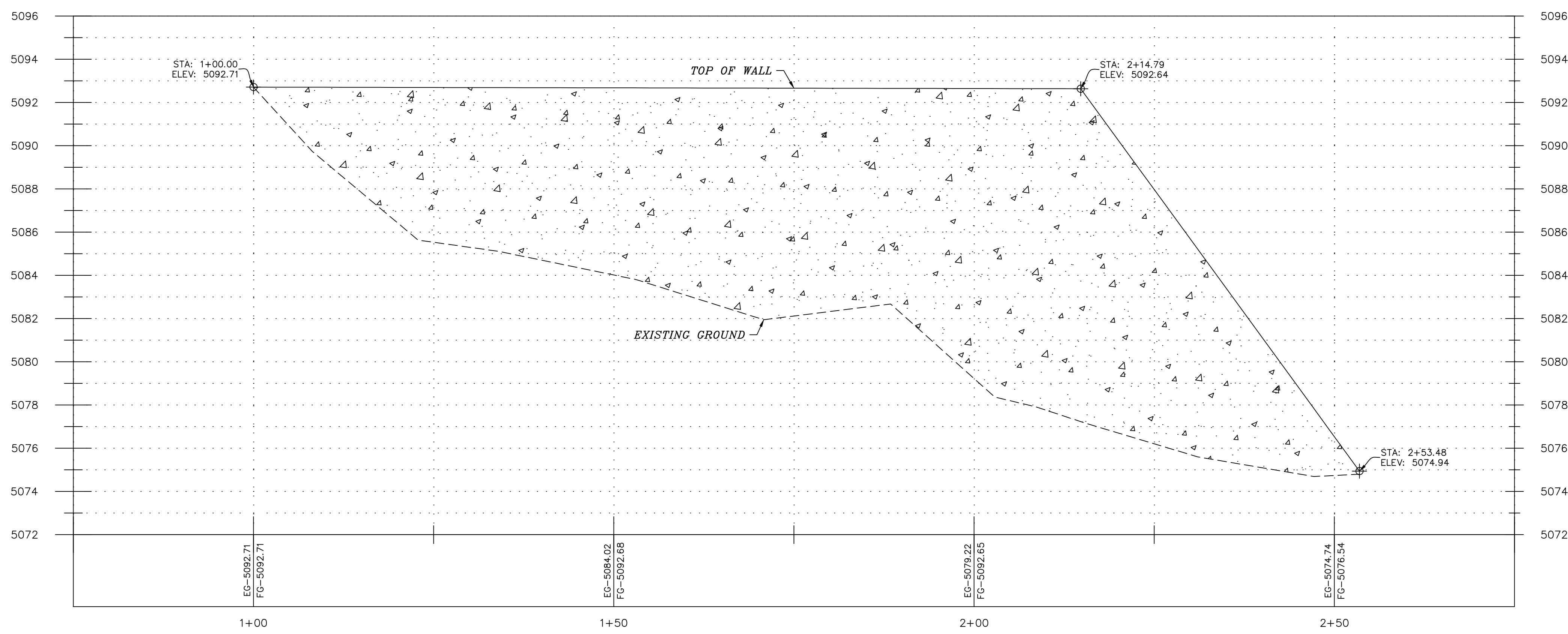
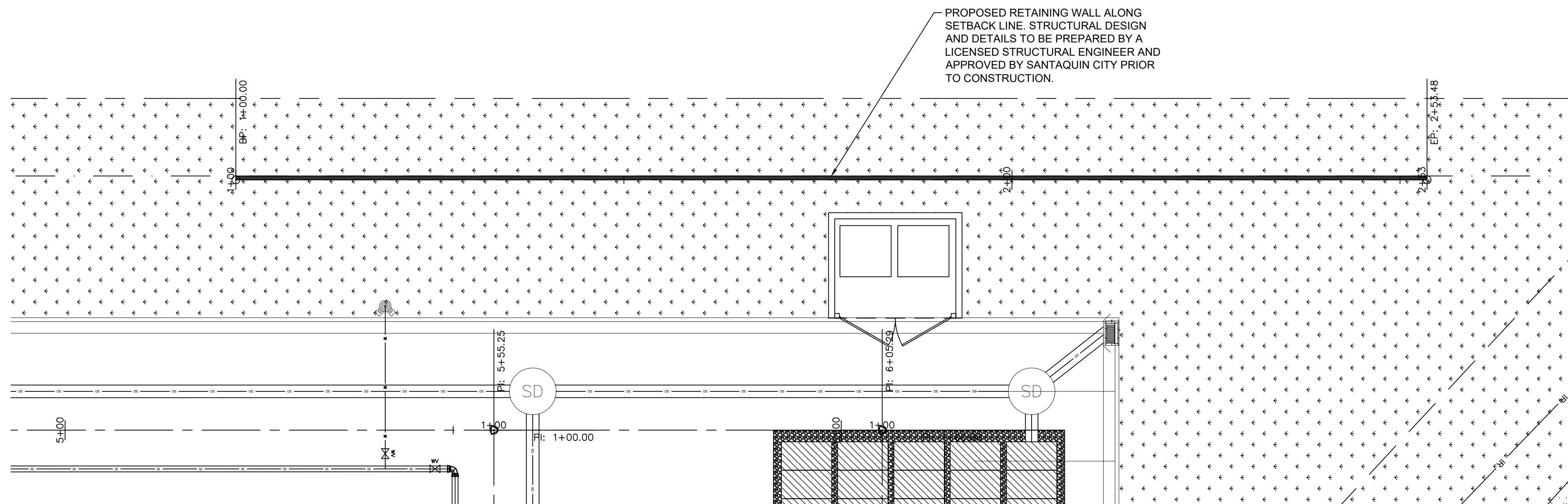
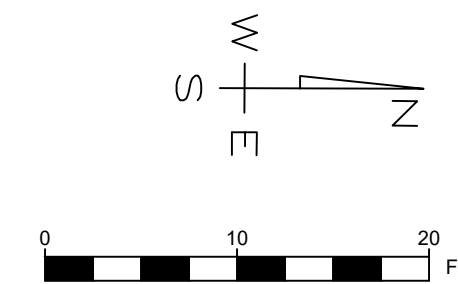
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 Location: **SANTAQUIN, UTAH**  
 Drawing Name: **SCI&CC IRRIGATION PIPE P&P**

PROJECT NO.  
2023.018  
 SHEET NO.  
**3.00**

1-800-662-4111



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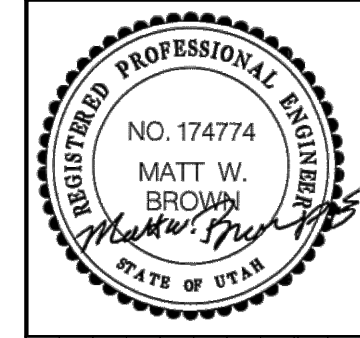
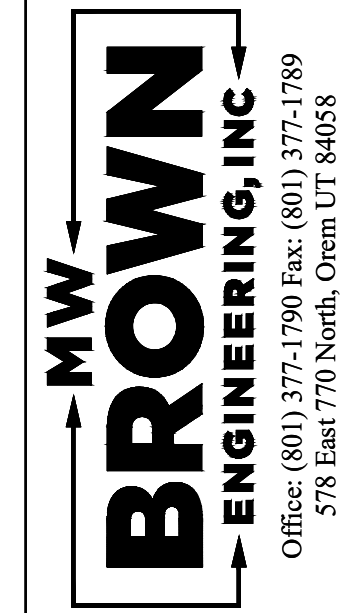
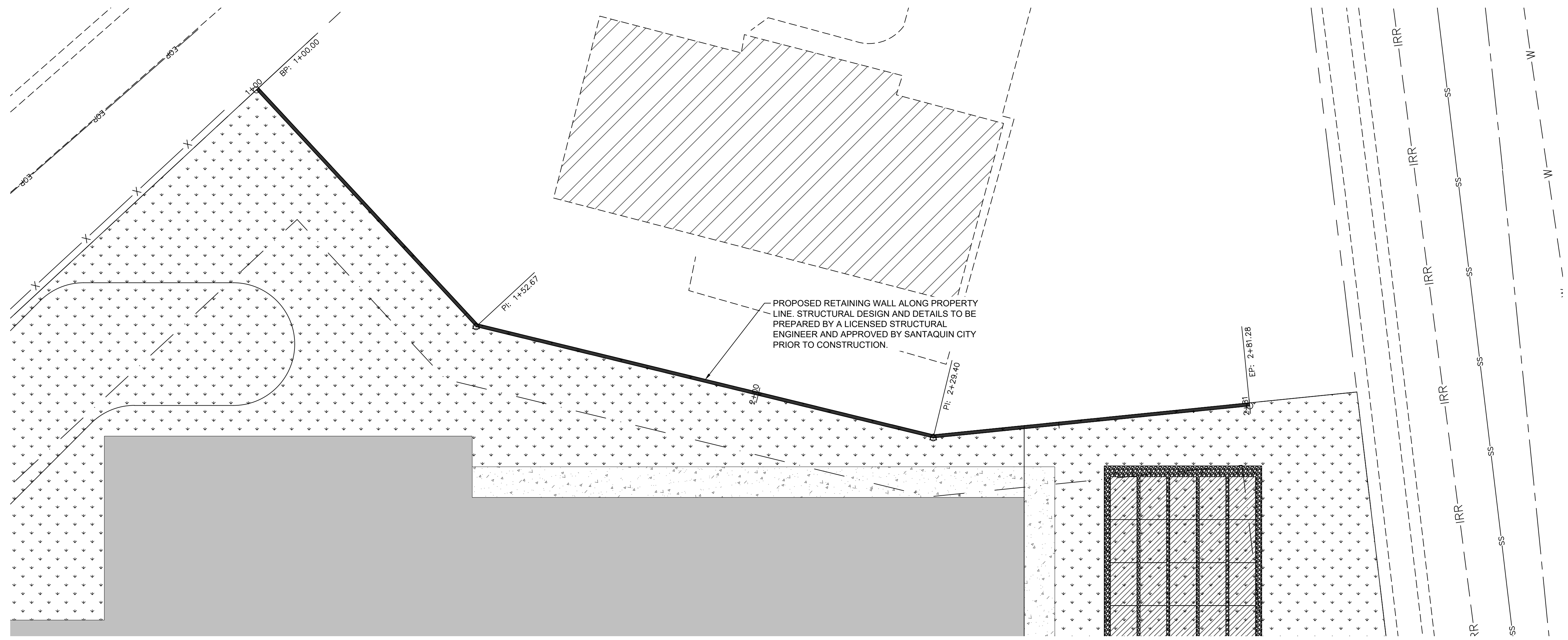


No.	Date	By	Notes

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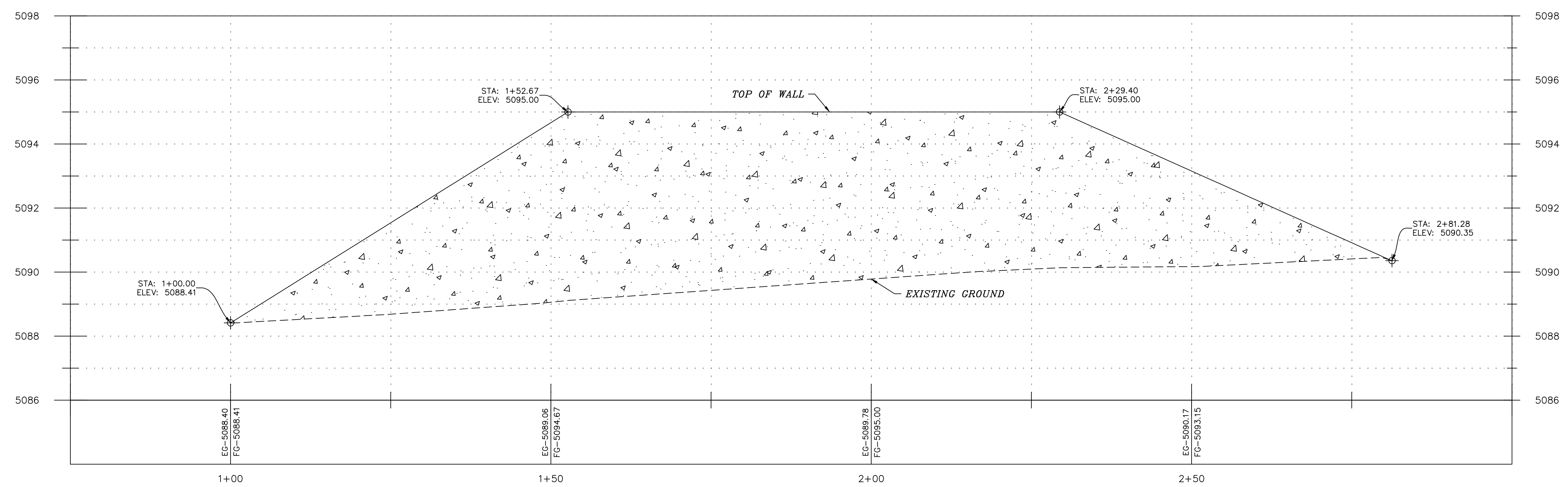
Title: CITADEL SANTAQUIN  
 Location: SANTAQUIN, UTAH  
 Drawing Name: WEST RETAINING WALL P&P

PROJECT NO.  
2023.018  
 SHEET NO.  
4.00



No.	Date	By	Notes

Designed: \_\_\_\_\_  
 Drawn: \_\_\_\_\_  
 Checked: \_\_\_\_\_  
 Date: \_\_\_\_\_



Title: CITADEL SANTAQUIN  
 Location: SANTAQUIN, UTAH  
 Drawing Name: NORTH RETAINING WALL P&P

PROJECT NO.  
2023.018  
 SHEET NO.  
4.01

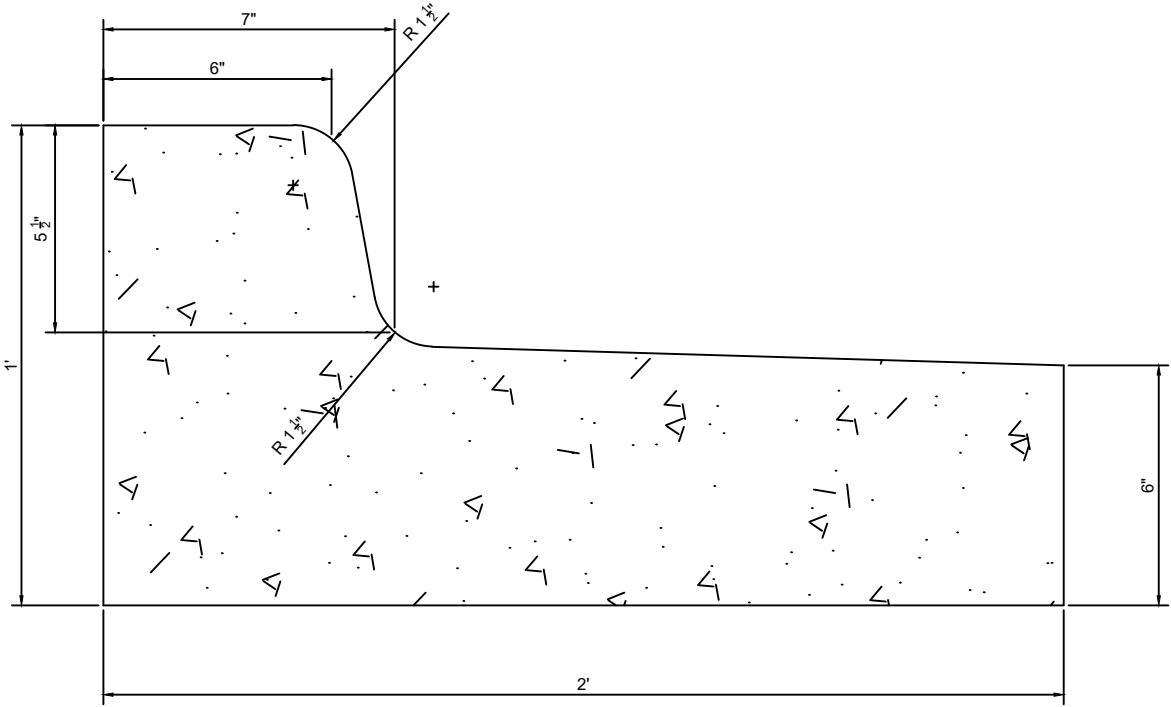
1-800-662-4111  
  
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**CITY NOTES:**

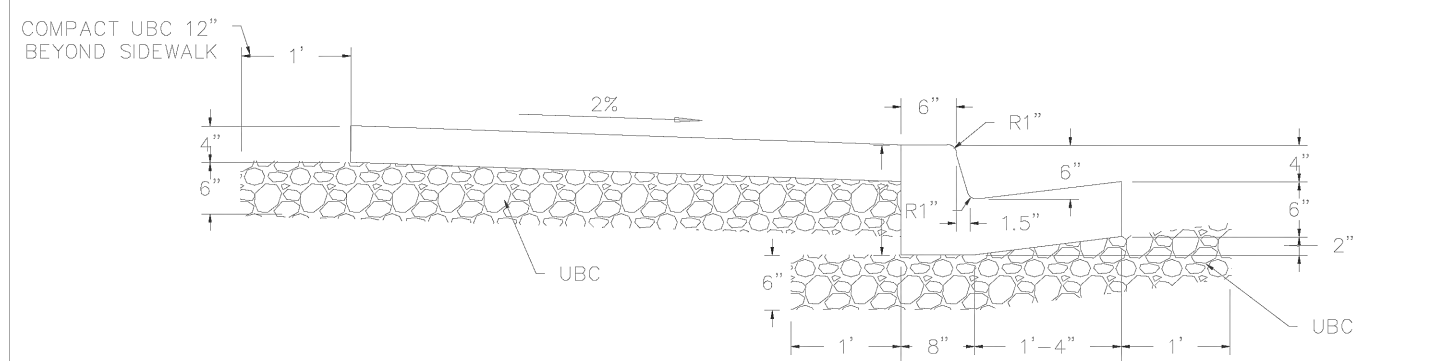
THE DEVELOPER AND THE GENERAL CONTRACTOR UNDERSTAND THAT IT IS HIS/HER RESPONSIBILITY TO ENSURE THAT ALL IMPROVEMENTS INSTALLED WITHIN THIS DEVELOPMENT ARE CONSTRUCTED IN FULL COMPLIANCE WITH ALL STATE AND SANTAQUIN CITY CODES, ORDINANCES AND STANDARDS. THESE PLANS ARE NOT ALL INCLUSIVE OF ALL MINIMUM CODES, ORDINANCES AND STANDARDS. THIS FACT DOES NOT RELIEVE THE DEVELOPER OR GENERAL CONTRACTOR FROM FULL COMPLIANCE WITH ALL MINIMUM STATE AND SANTAQUIN CITY CODES, ORDINANCES AND STANDARDS.

ALL RECOMMENDATIONS MADE IN A PERTINENT GEOTECHNICAL REPORT/STUDY SHALL BE FOLLOWED EXPLICITLY DURING CONSTRUCTION OF BUILDINGS AND SITE IMPROVEMENTS.

THE CURRENT SANTAQUIN CITY STANDARD SPECIFICATIONS AND DRAWINGS SHALL BE STRICTLY ADHERED TO.

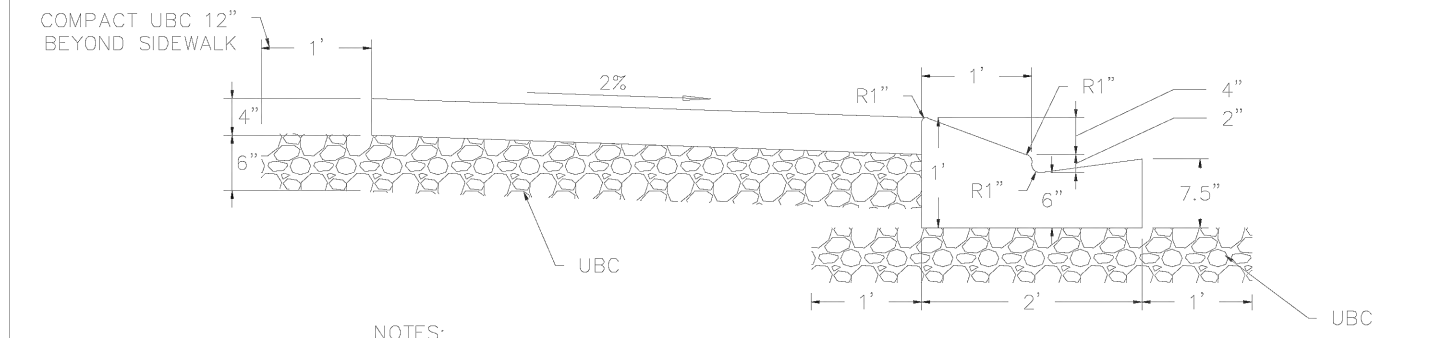


**FALLOUT CURB**



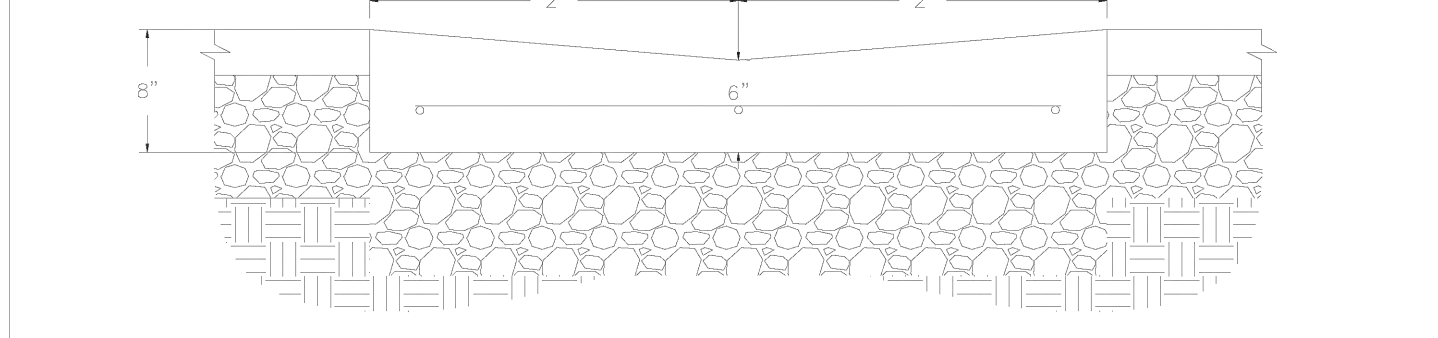
- NOTES:
1. PROVIDE A TOOLED JOINT EVERY 10' IN CURB & GUTTER, & EVERY 5' IN SIDEWALK.
  2. PROVIDE AN EXPANSION JOINT EVERY 30' IN SIDEWALK.

**TYPICAL HIGH BACK CURB AND GUTTER**



- NOTES:
1. 24\"/>
  2. TRANSITIONS TO HIGH BACK CURB SHALL BE ACCOMPLISHED IN A MINIMUM OF 6' (FOR CURB INLET BOXES, ETC.)

**MODIFIED CURB AND GUTTER**



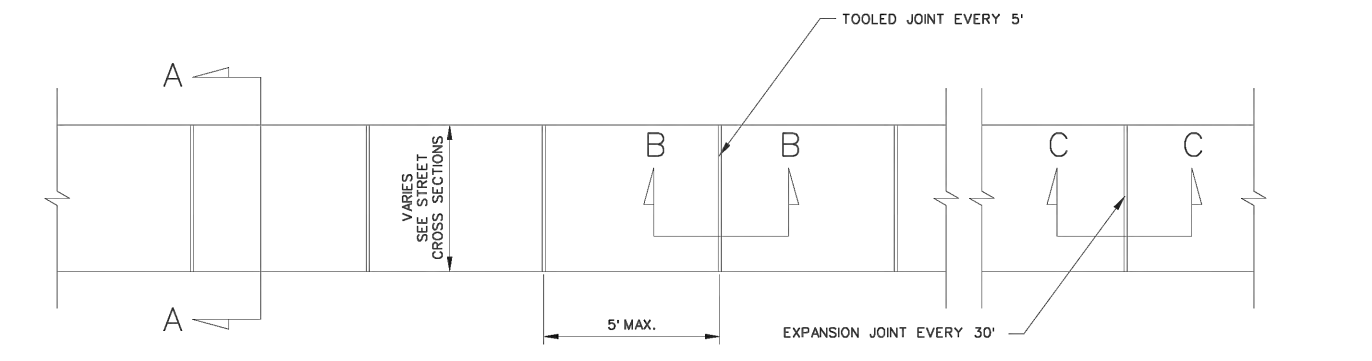
**CROSS GUTTER**

REVISION OF SET: THIS DOCUMENT AND ANY ILLUSTRATIONS THEREON ARE PROVIDED AS STANDARD CONSTRUCTION DETAILS WITHIN SANTAQUIN CITY. REVISION FROM THE PREVIOUS REVISIONS APPROVAL OF SANTAQUIN CITY: SANTAQUIN CITY CORP. CAN NOT BE HELD LIABLE FOR REVISION OR CHANGES REFERENCED IN THIS DOCUMENT.

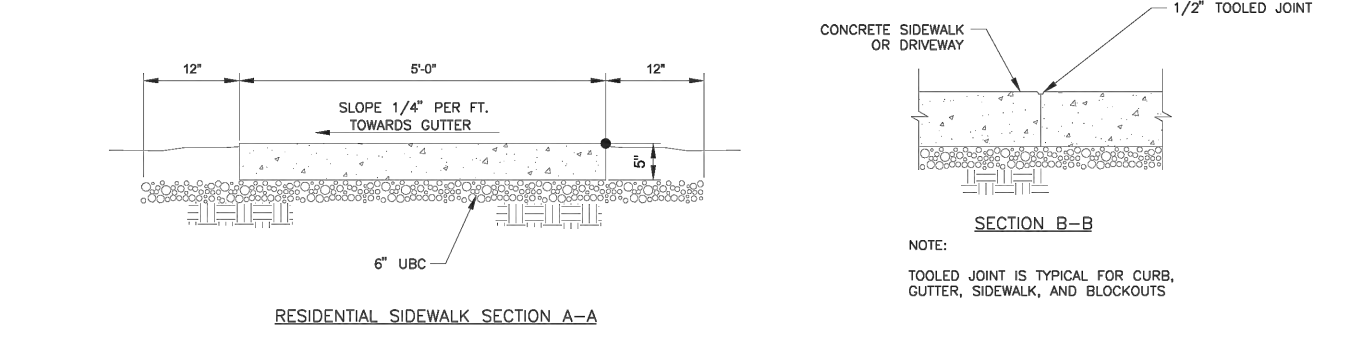
NO.	REVISION	DATE

**CURB & GUTTER AND CROSS GUTTER DETAILS**  
SANTAQUIN CITY  
275 WEST MAIN STREET

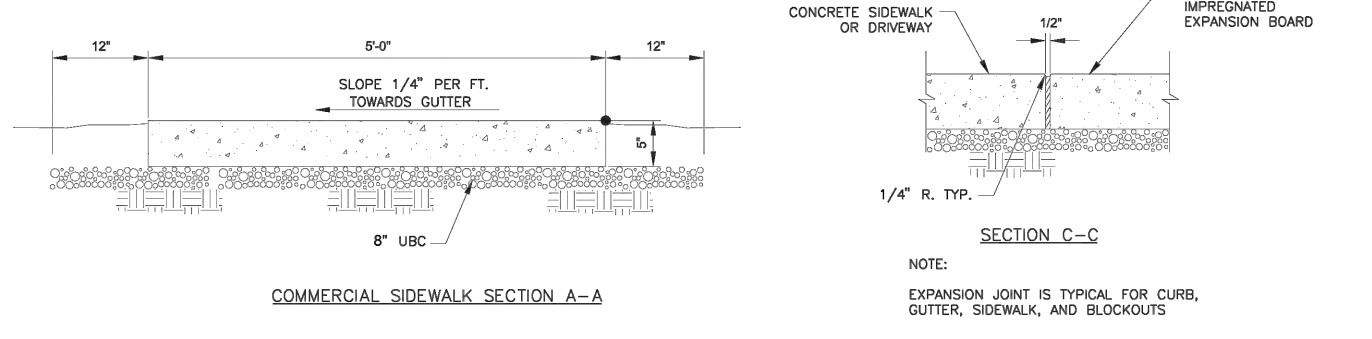
CG4  
ADOPTED DATE: 19 - OCT - 16



**PLAN VIEW**



**RESIDENTIAL SIDEWALK SECTION A-A**



**COMMERCIAL SIDEWALK SECTION A-A**

- NOTES:
1. PROVIDE A TOOLED JOINT EVERY 10'-0" IN CURB & GUTTER, & EVERY 5'-0" IN SIDEWALK.
  2. PROVIDE AN EXPANSION JOINT EVERY 30'-0" IN SIDEWALK.
  3. PLACE UBC UNDER CONCRETE SIDEWALK AND 12" BEYOND FRONT AND BACK OF WALK.

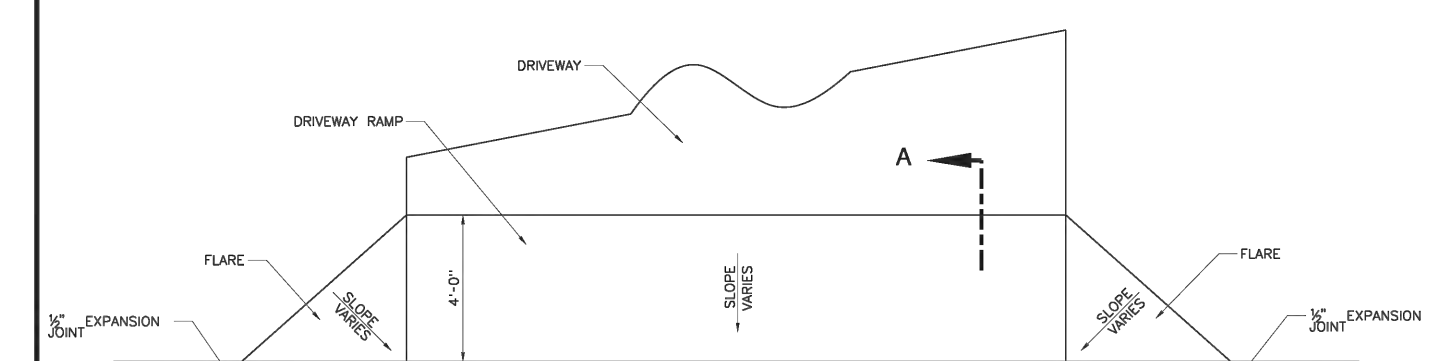
**SIDEWALK DETAILS**  
NOT TO SCALE

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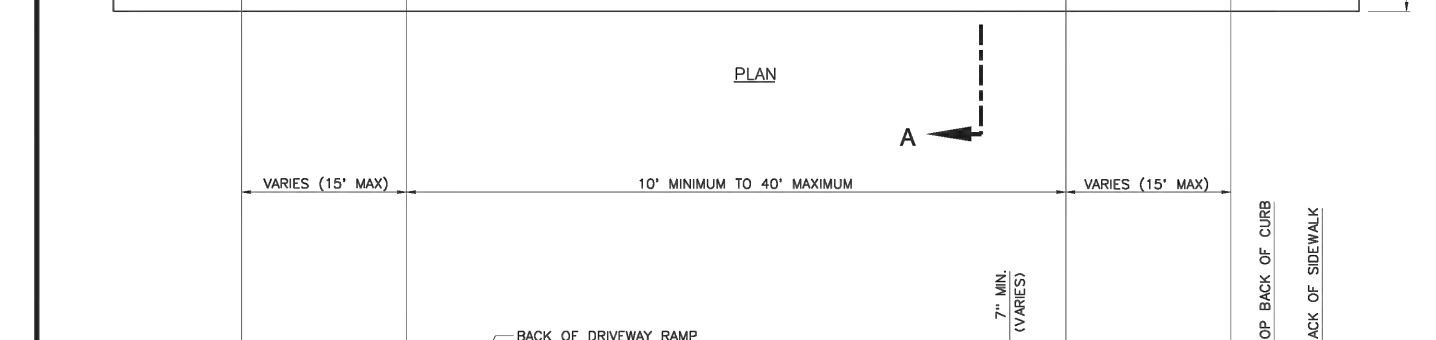
NO.	REVISION	DATE

**SIDEWALK DETAILS**  
SANTAQUIN CITY  
275 WEST MAIN STREET

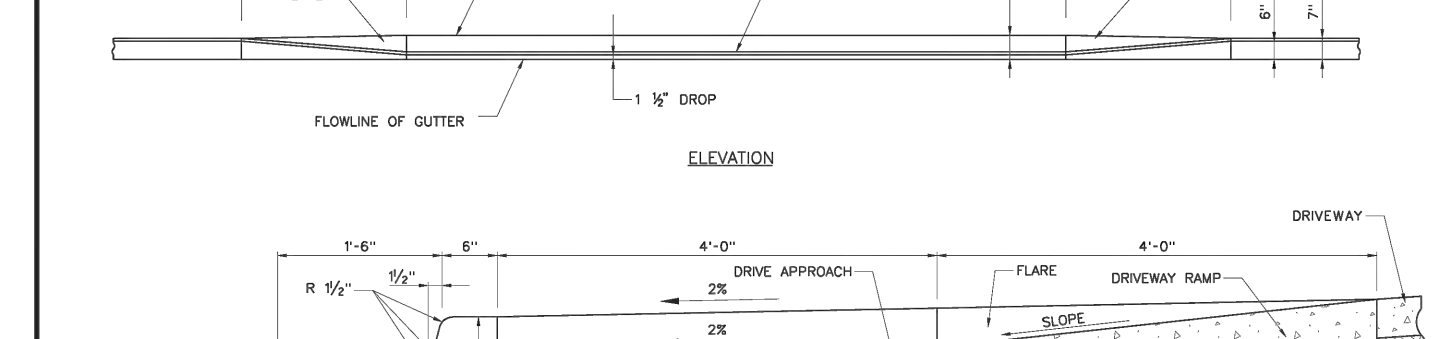
CG5  
ADOPTED DATE: 19 - OCT - 16



**PLAN**



**ELEVATION**



**SECTION A-A**  
N.T.S.

- NOTES:
1. SLOPED AREAS AND SLOPED DRIVEWAYS SHALL HAVE A COARSE BROKEN FINISH.
  2. THE DRIVEWAY AT A POINT 4' BEHIND THE SIDEWALK SHALL BE AT LEAST 7" HIGHER THAN THE FLOWLINE OF THE GUTTER.
  3. RAMP AND FLARES ARE TO BE 6" THICK CONCRETE.

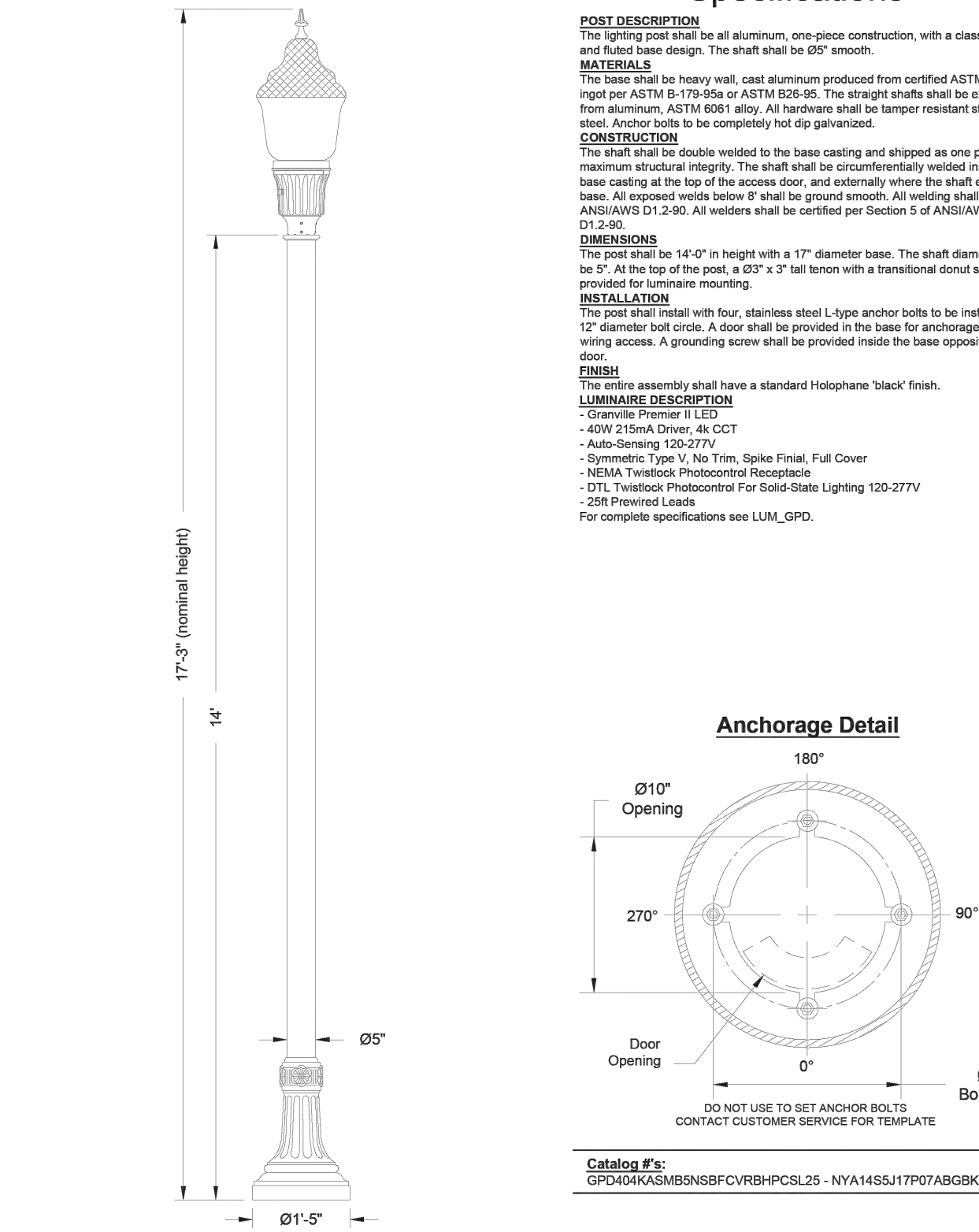
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NO.	REVISION	DATE

**DRIVEWAY APPROACH W/O PARK STRIP**  
SANTAQUIN CITY  
275 WEST MAIN STREET

CG6  
ADOPTED DATE: 19 - OCT - 16

**Specifications**



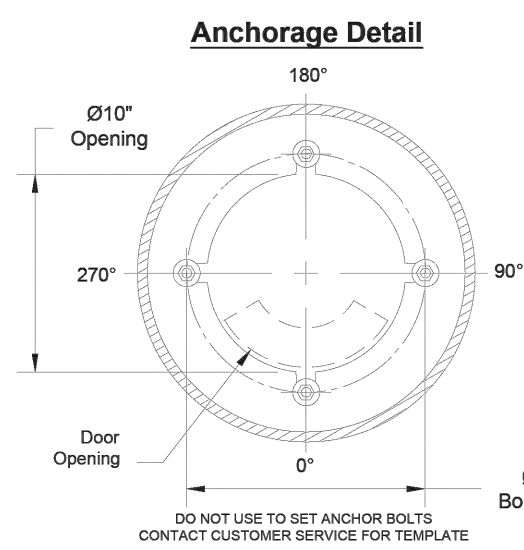
**POST DESCRIPTION**  
This lighting post shall be all aluminum, one-piece construction, with a classic tapered and fluted base design. The shaft shall be 05" smooth.

**MATERIALS**  
The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The upright shafts shall be extruded from aluminum, ASTM 6061 alloy. All hardware shall be tapered stainless steel. Anchor bolts to be completely hot dip galvanized.

**CONSTRUCTION**  
The post shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed inside below 5' shall be ground smooth. All welding shall be per ANSI/AWS D1.2:90. All welders shall be certified per Section 5 of ANSI/AWS D1.2:90.

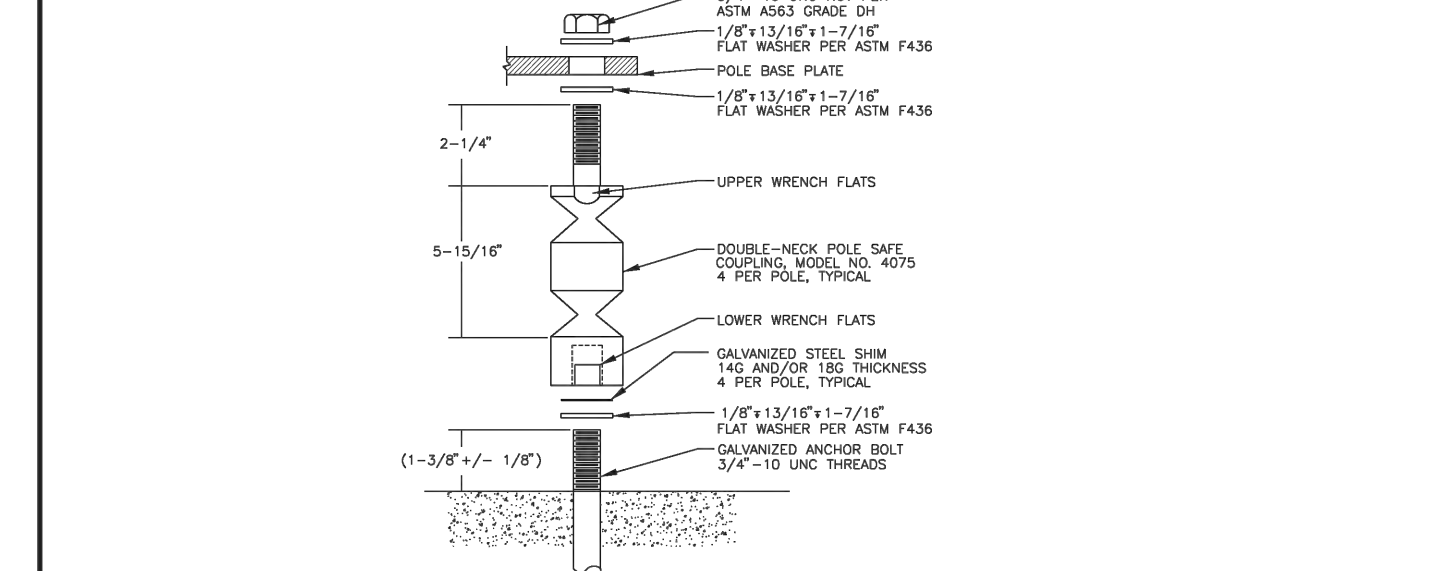
**FINISH**  
The entire assembly shall have a standard Hooplane "black" finish.

**LUMINAIRE DESCRIPTION**  
- Granville Premier II LED  
- 60W D156k Driver, 4x CCT  
- Auto-Sensing 120-277V  
- Symmetric Type V, No Trim, Spike Finial, Full Cover  
- NEMA Twistlock Photocentral Receptacle  
- DTL, Heedlock Photocentral For Solid-State Lighting 120V-277V  
- 25R Prewired Leads  
For complete specifications see LUM\_GPD.

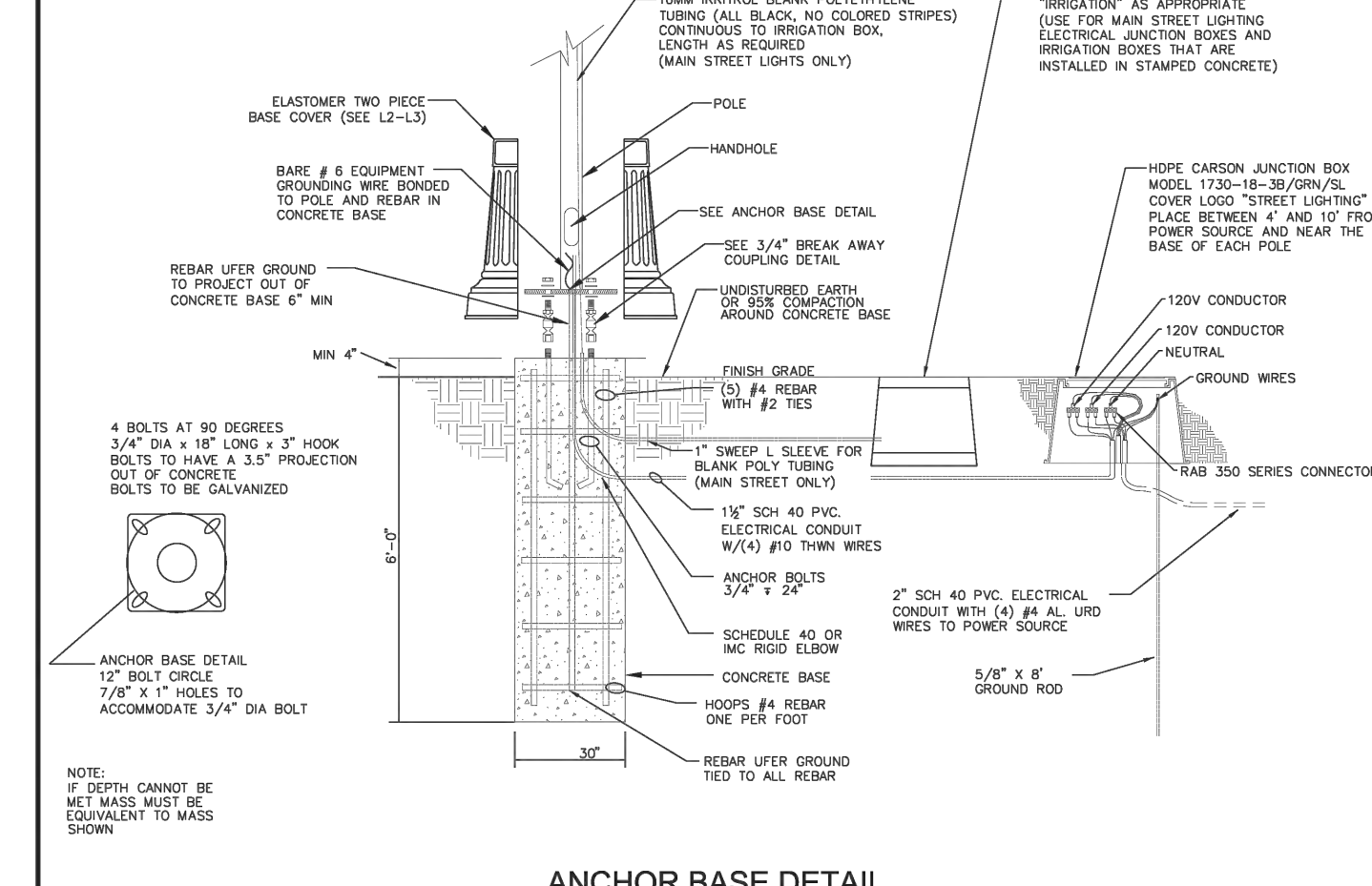


**Anchorage Detail**

Catalog #s:  
GPD04KASMSBMSBFCVBRHPCSL25 - NYA14SSJ17P07ABGBK



**BREAK AWAY COUPLING DETAIL**  
NOT TO SCALE



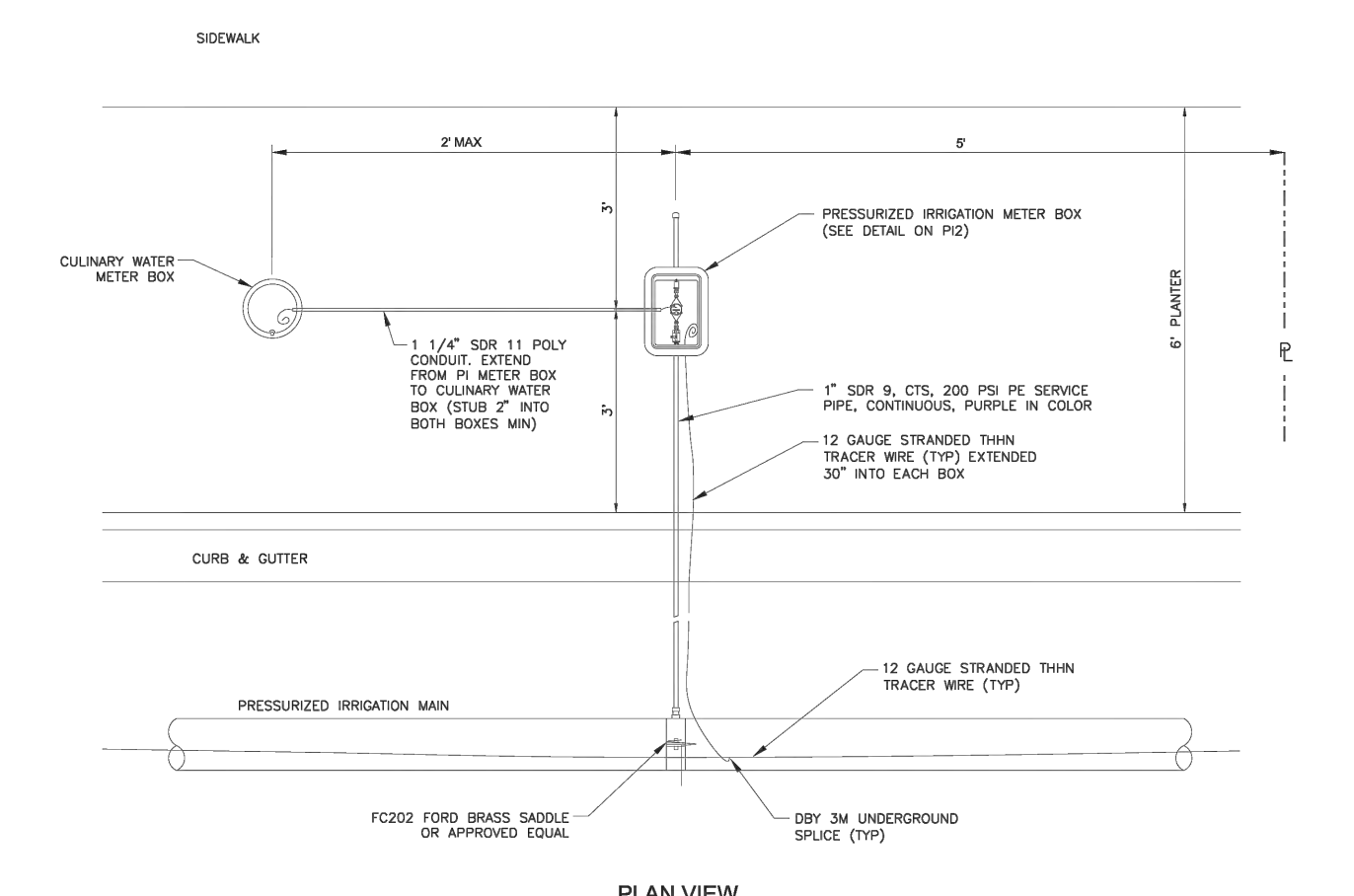
**ANCHOR BASE DETAIL**  
NOT TO SCALE

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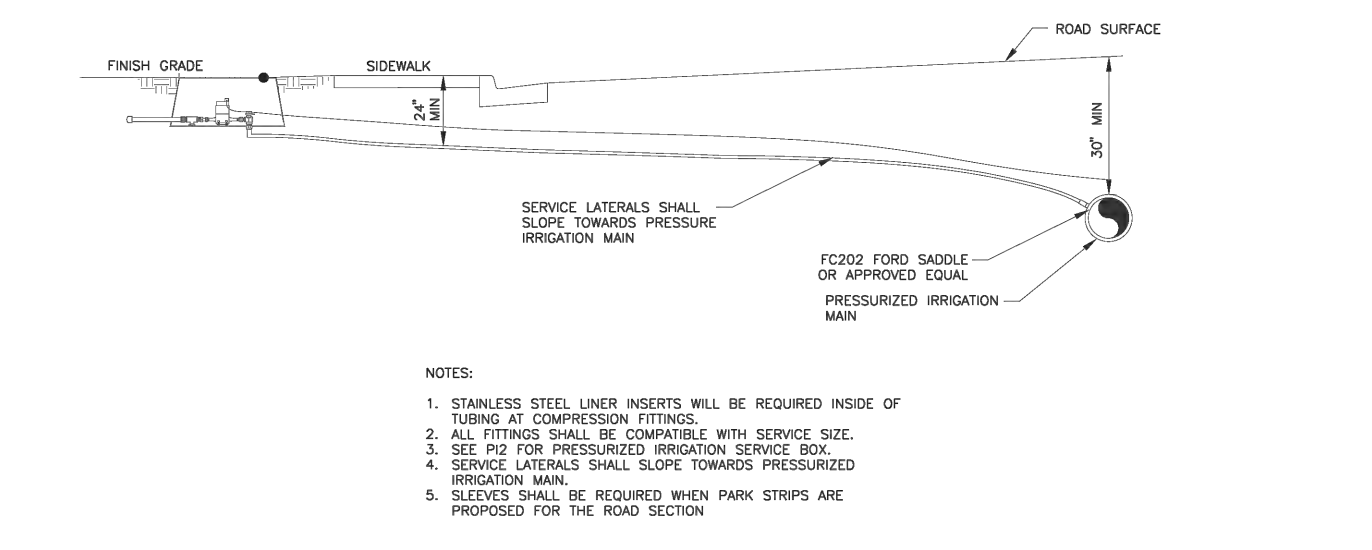
NO.	REVISION	DATE

**ANCHOR BASE & BREAK AWAY COUPLING**  
SANTAQUIN CITY  
275 WEST MAIN STREET

L4  
ADOPTED DATE: 19 - OCT - 16



**PLAN VIEW**



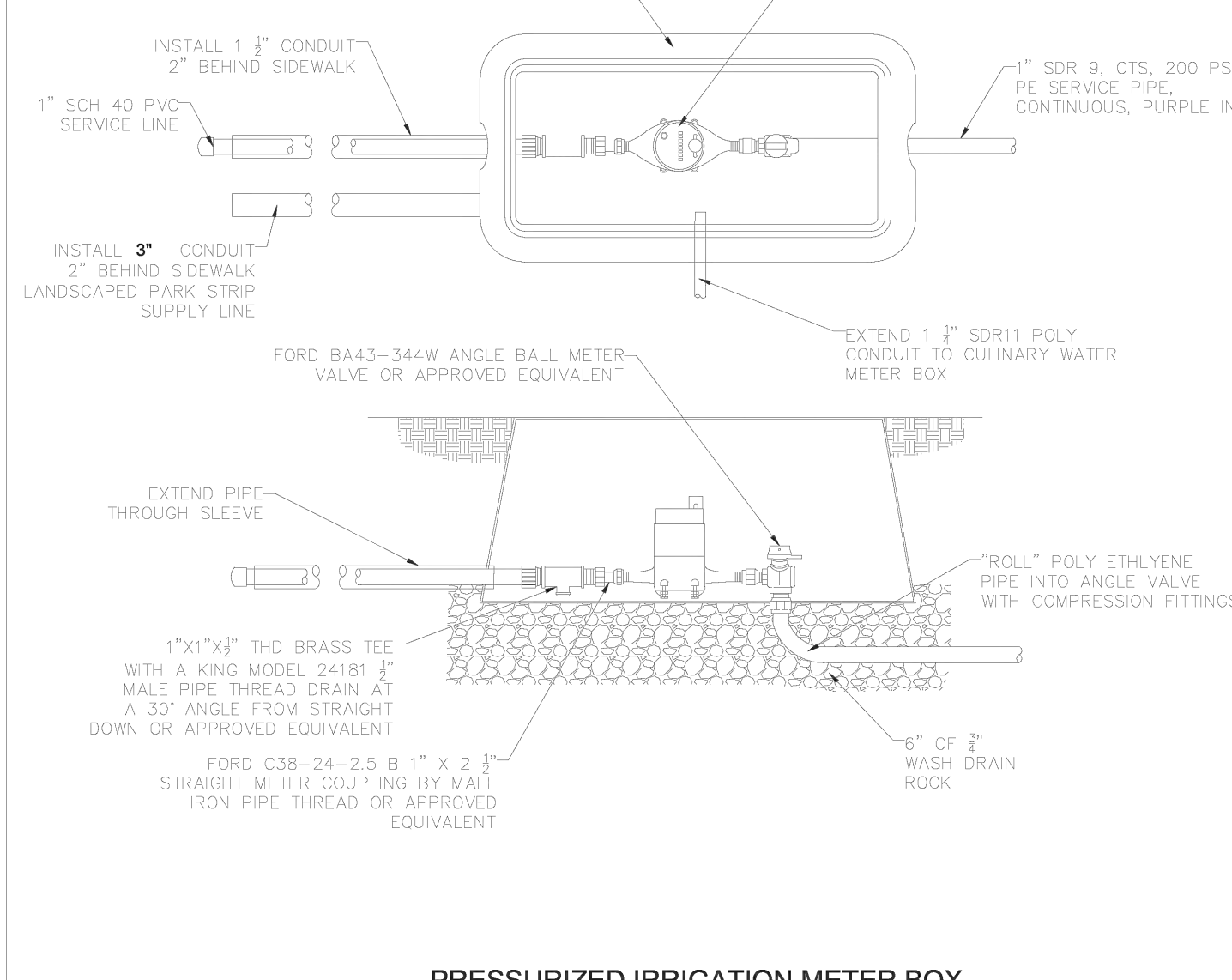
**PRESSURE IRRIGATION SERVICE LATERAL**  
NOT TO SCALE

REVISION OF SET: THIS DOCUMENT AND ANY ILLUSTRATIONS THEREON ARE PROVIDED AS STANDARD CONSTRUCTION DETAILS WITHIN SANTAQUIN CITY. REVISION FROM THE PREVIOUS REVISIONS APPROVAL OF SANTAQUIN CITY: SANTAQUIN CITY CORP. CAN NOT BE HELD LIABLE FOR REVISION OR CHANGES REFERENCED IN THIS DOCUMENT.

NO.	REVISION	DATE

**PRESSURE IRRIGATION SERVICE LATERAL**  
SANTAQUIN CITY  
275 WEST MAIN STREET

PI 1  
ADOPTED DATE: 19 - OCT - 16



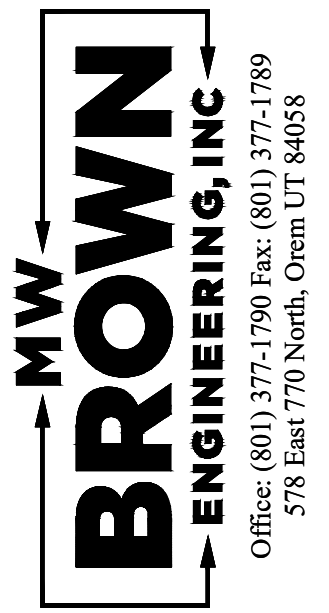
**PRESSURIZED IRRIGATION METER BOX**  
NOT TO SCALE

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NO.	REVISION	DATE

**PRESSURE IRRIGATION METER BOX**  
SANTAQUIN CITY  
275 WEST MAIN STREET

PI2  
ADOPTED DATE: 19 - OCT - 16

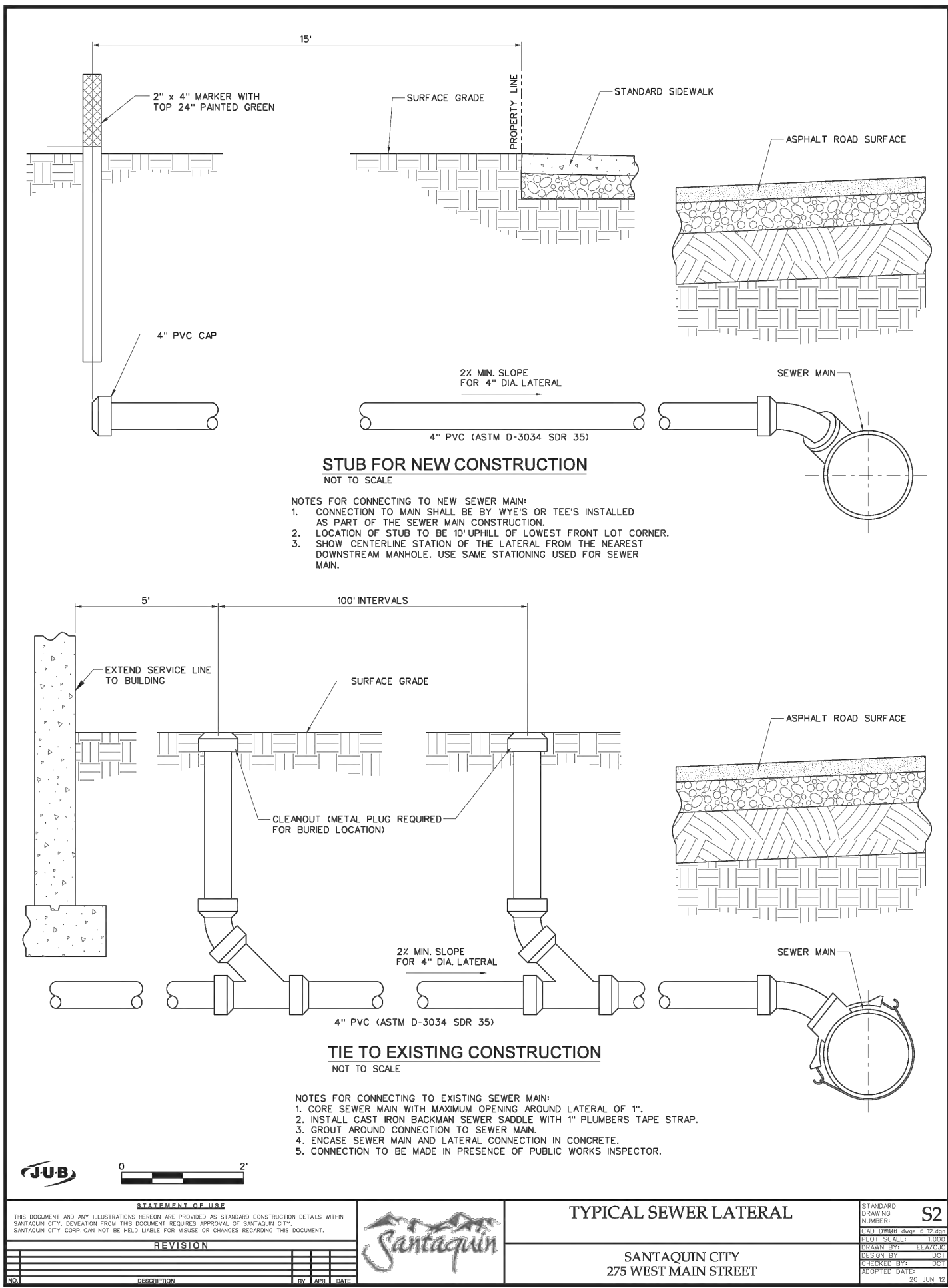


NO.	Date	By

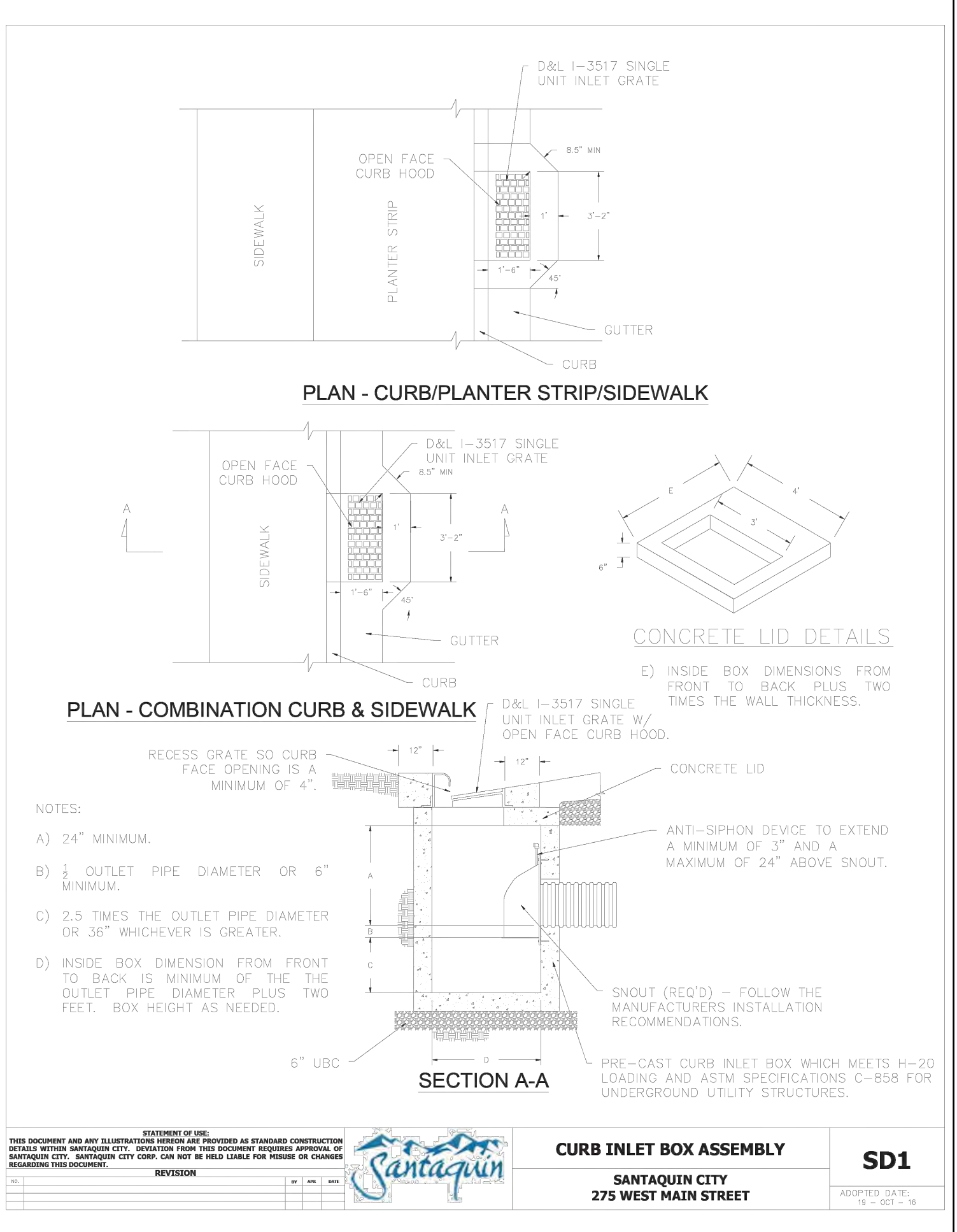
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Drawn: \_\_\_\_\_  
Checked: \_\_\_\_\_  
Date: \_\_\_\_\_

Title: CITADEL SANTAQUIN  
Location: SANTAQUIN, UTAH  
Drawing Name: STANDARD DETAILS

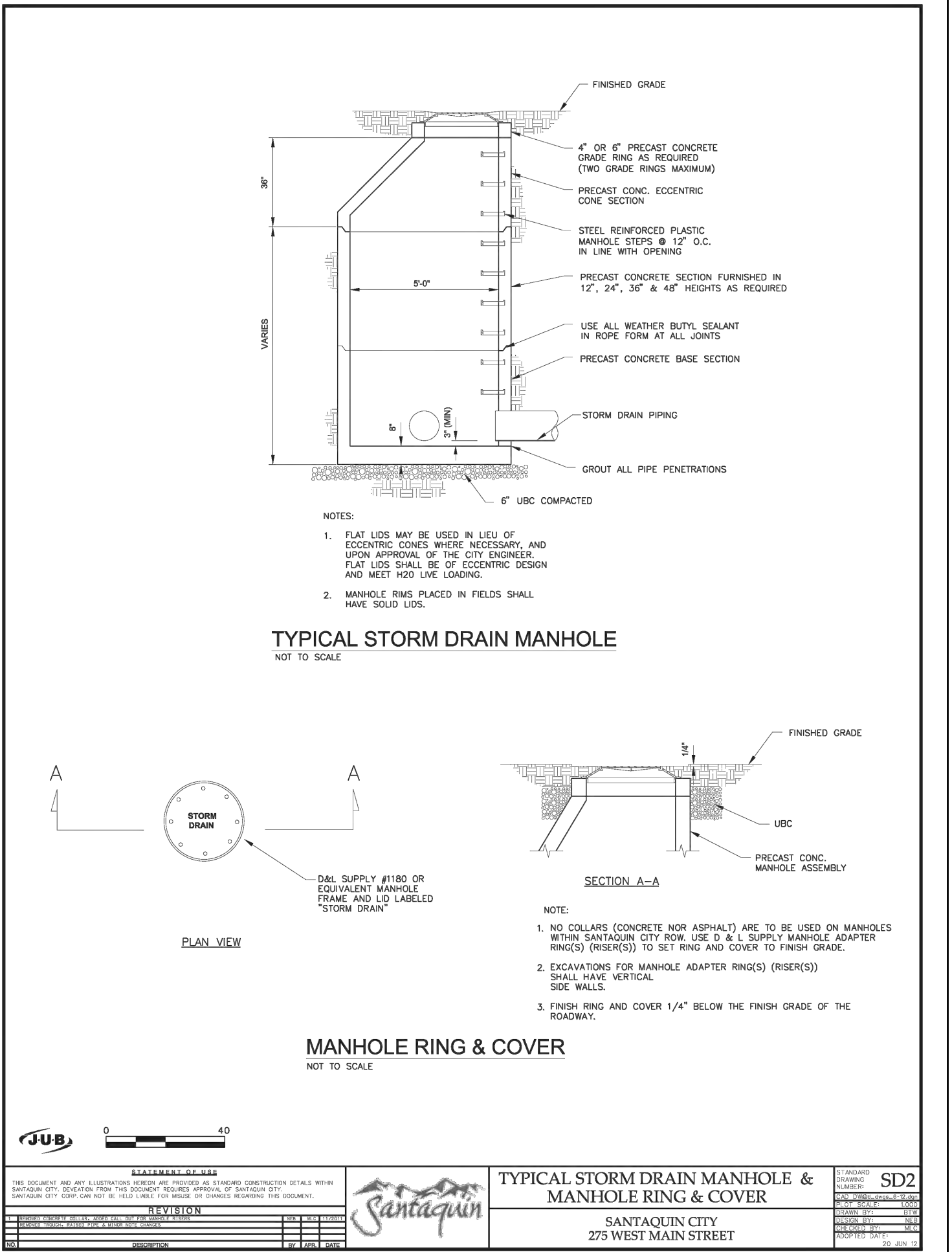
PROJECT NO. 2023.018  
SHEET NO. 5.00



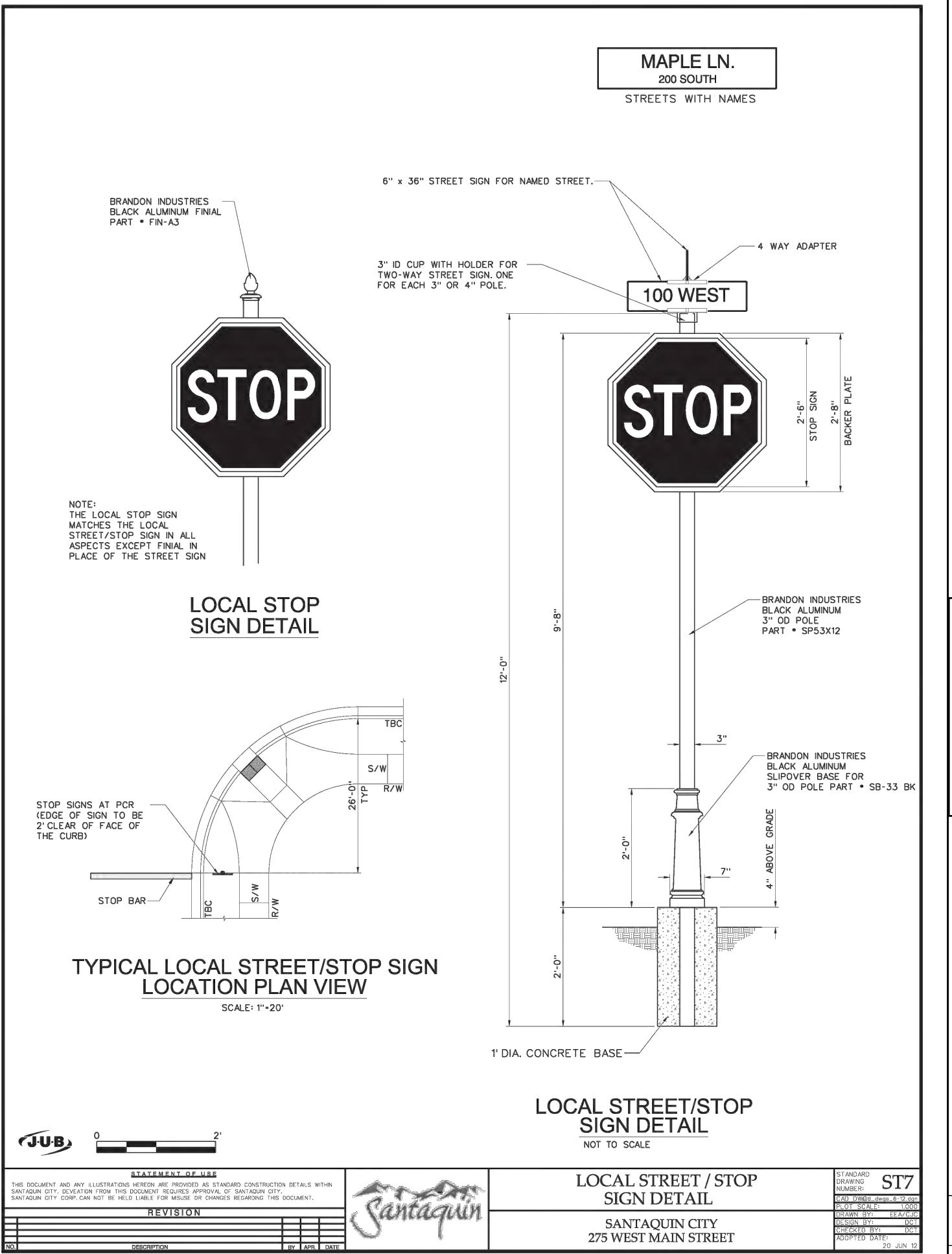
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DATE			



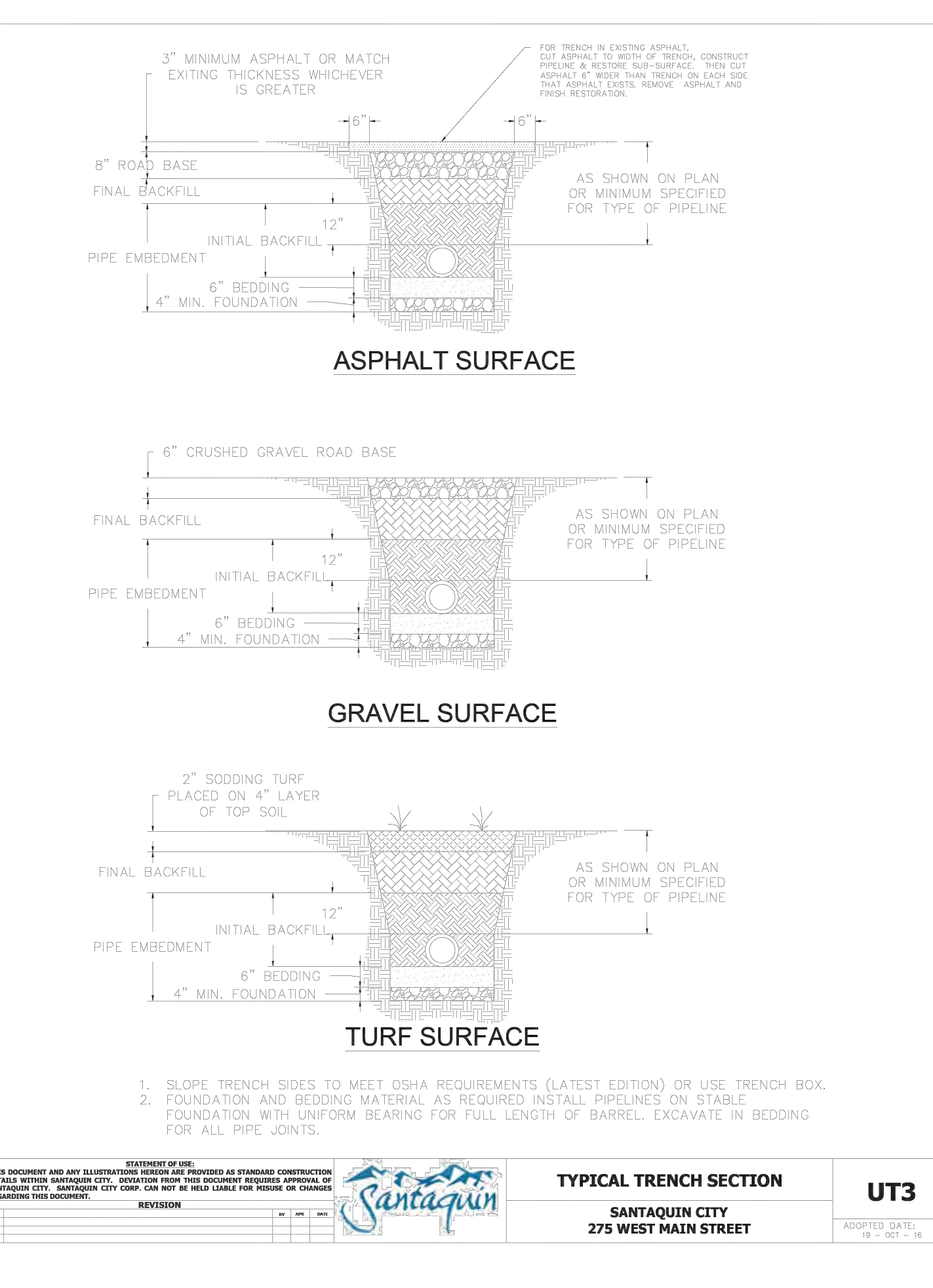
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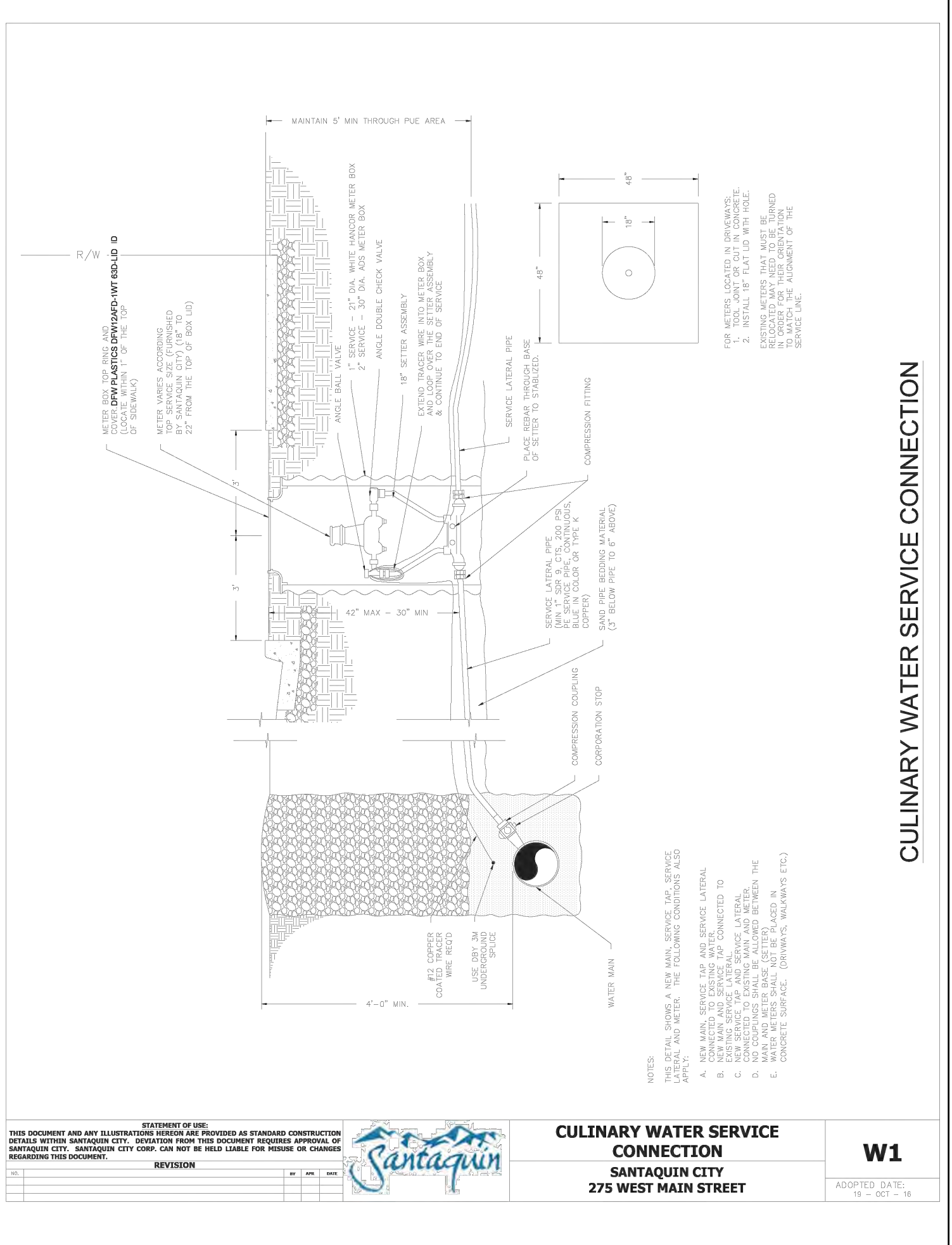
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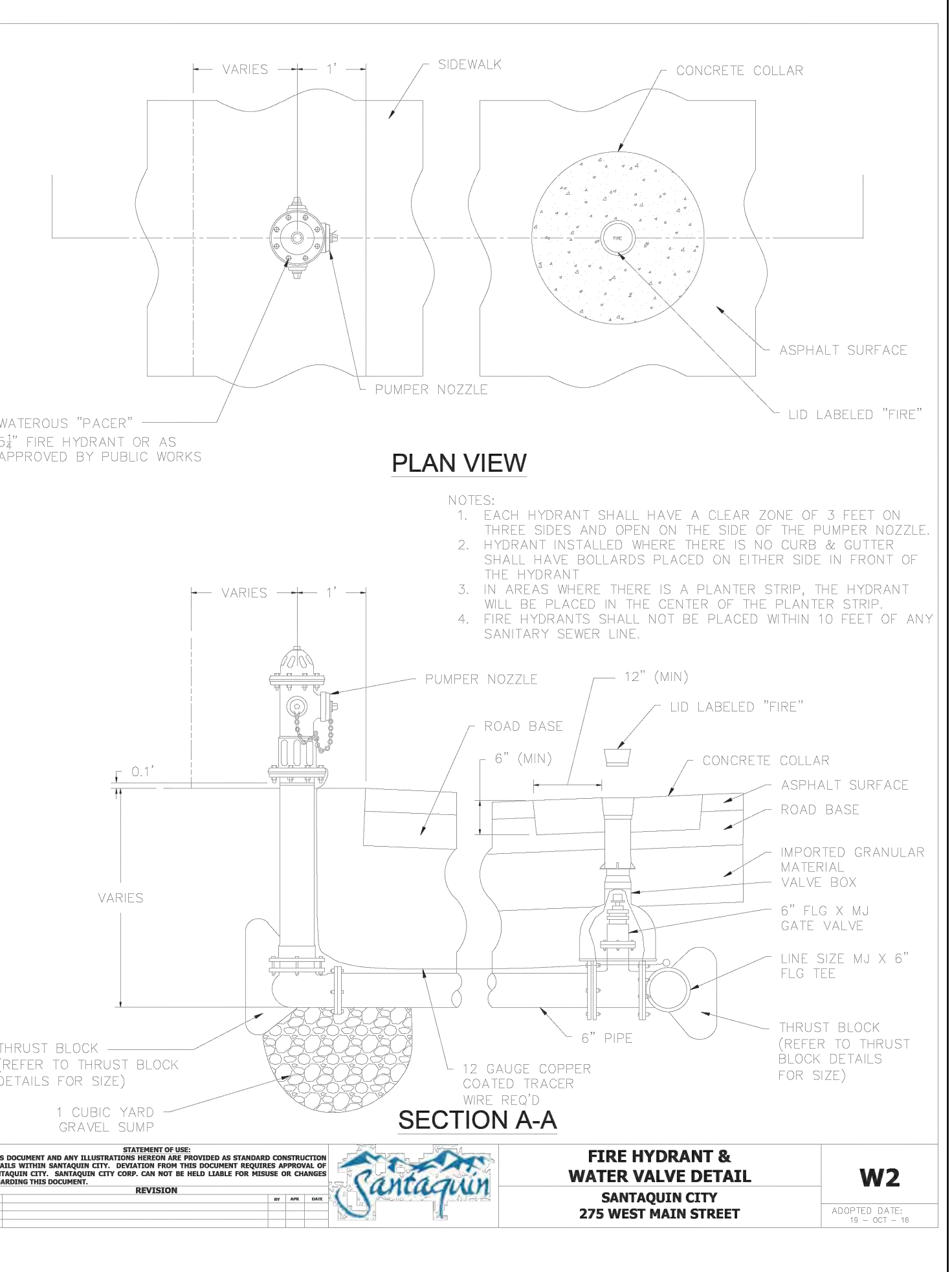
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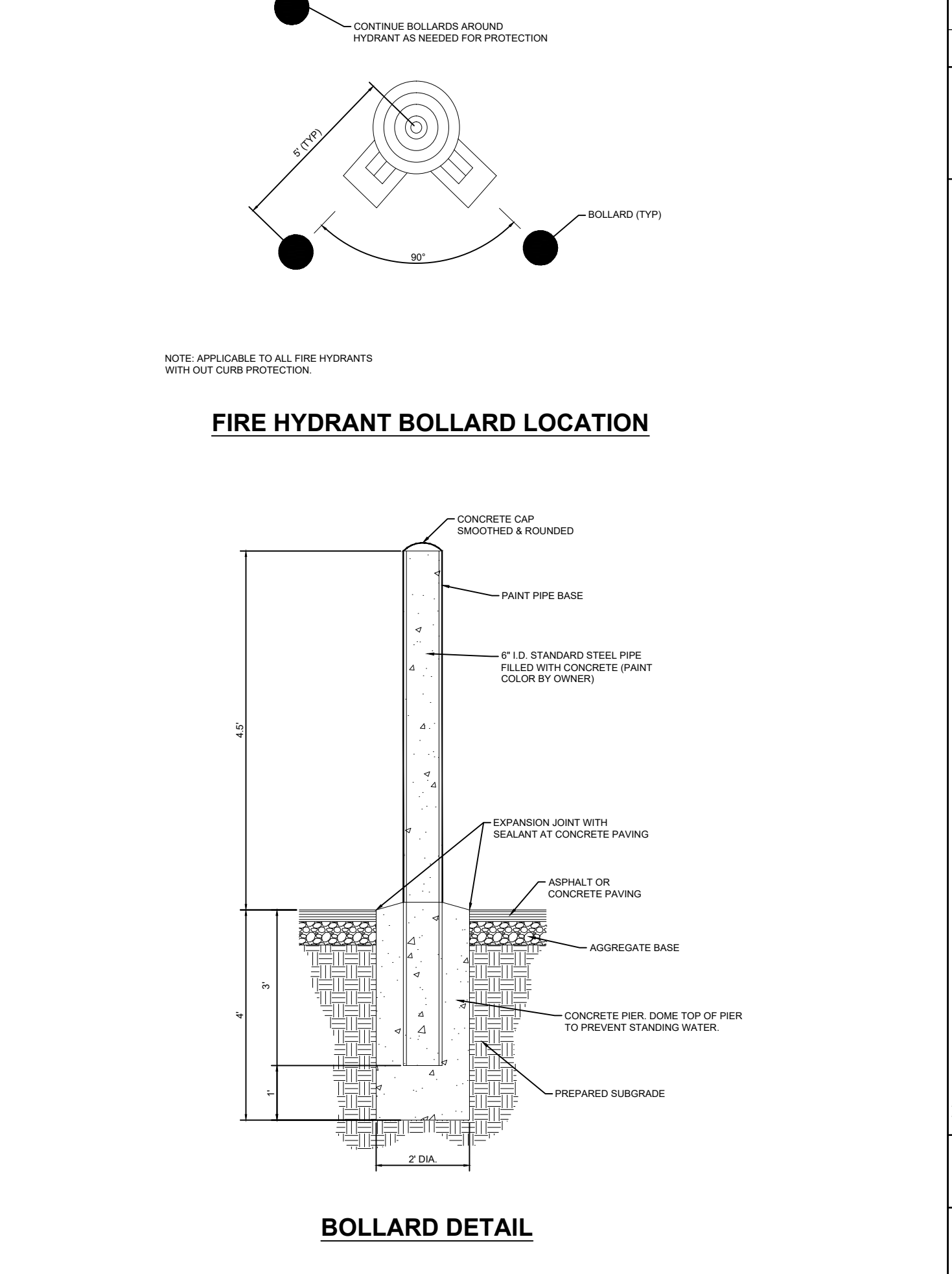
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DESIGNED BY	DATE	BY	DATE
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CHECKED BY	DATE	BY	DATE
DATE			

**BROWN ENGINEERING, INC.**  
Office: (801) 377-1790 Fax: (801) 377-1789  
578 East 770 North, Orem UT 84058

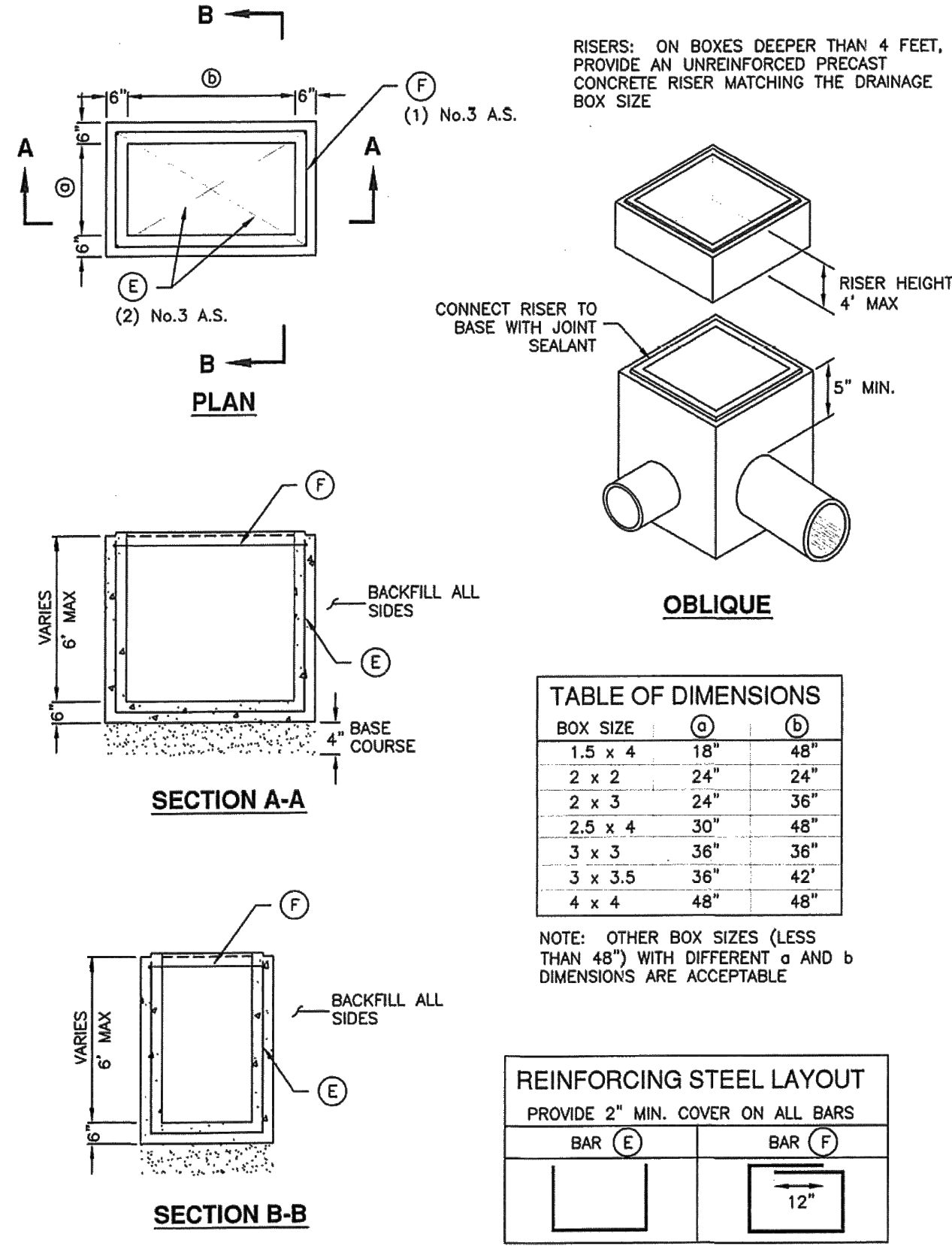
REGISTERED PROFESSIONAL ENGINEER  
NO. 174774  
MATT W. BROWN  
STATE OF UTAH

<p>DESIGNED BY</p> <p>DRAWN BY</p> <p>CHECKED BY</p> <p>DATE</p>	<p>NO.</p> <p>DATE</p> <p>BY</p> <p>REVISIONS</p>
<p>PROJECT NO. 2023.018</p> <p>SHEET NO. 5.01</p>	



**Precast box**

- GENERAL**
  - The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the box.
  - This drawing is acceptable where the water table elevation is less than 3 feet above the floor of the box. If elevation of water table is higher, engineering calculations and drawings must be submitted to and approved by the ENGINEER.
  - Submit bar design detail for ENGINEER's review.
- PRODUCTS**
  - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - Precast Concrete: Class 4000 precast, APWA Section 03 40 00.
  - Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A615. Coated steel is not required for small drainage structures shown on this drawing.
  - Frame and Cover (or Grate): Use the appropriate unit indicated in the Contract Documents.
  - Joint Sealant: Rubber-based, compressible.
- EXECUTION**
  - Concrete Placement: Provide 2-inches of concrete cover over reinforcing steel.
  - Lifting Points: Provide at least 2 lifting points per section that avoid interference with the reinforcing steel and that are designed according to PCI (Prestressed Concrete Institute) design handbook. Lift only from the engineered lifting points.
  - Depth: Drainage boxes and riser combinations that exceed 8-feet from finished grade to the bottom of the box requires ENGINEER's approval. Submit design calculations and shop drawings.
  - Core Holes:
    - Provide core holes that are at least 4" larger than attaching outer pipe diameter. Cut core holes at the manufacturing plant unless ENGINEER permits field core holes.
    - Center core holes to leave 2" of concrete measured horizontally from inside wall of the box to core hole. Locate core hole vertically so bottom of core hole will be at or above floor elevation with at least 5-inches of concrete directly above the core hole to the top of the box.
    - Deviations from core hole tolerances require shop drawings. Shop drawings will identify lifting point number and location.
  - Precast Top: Design precast top for AASHTO HL-93 live loads and submit rebar detail and stamped design drawings to ENGINEER. Show connection detail for frame and grate or cover.

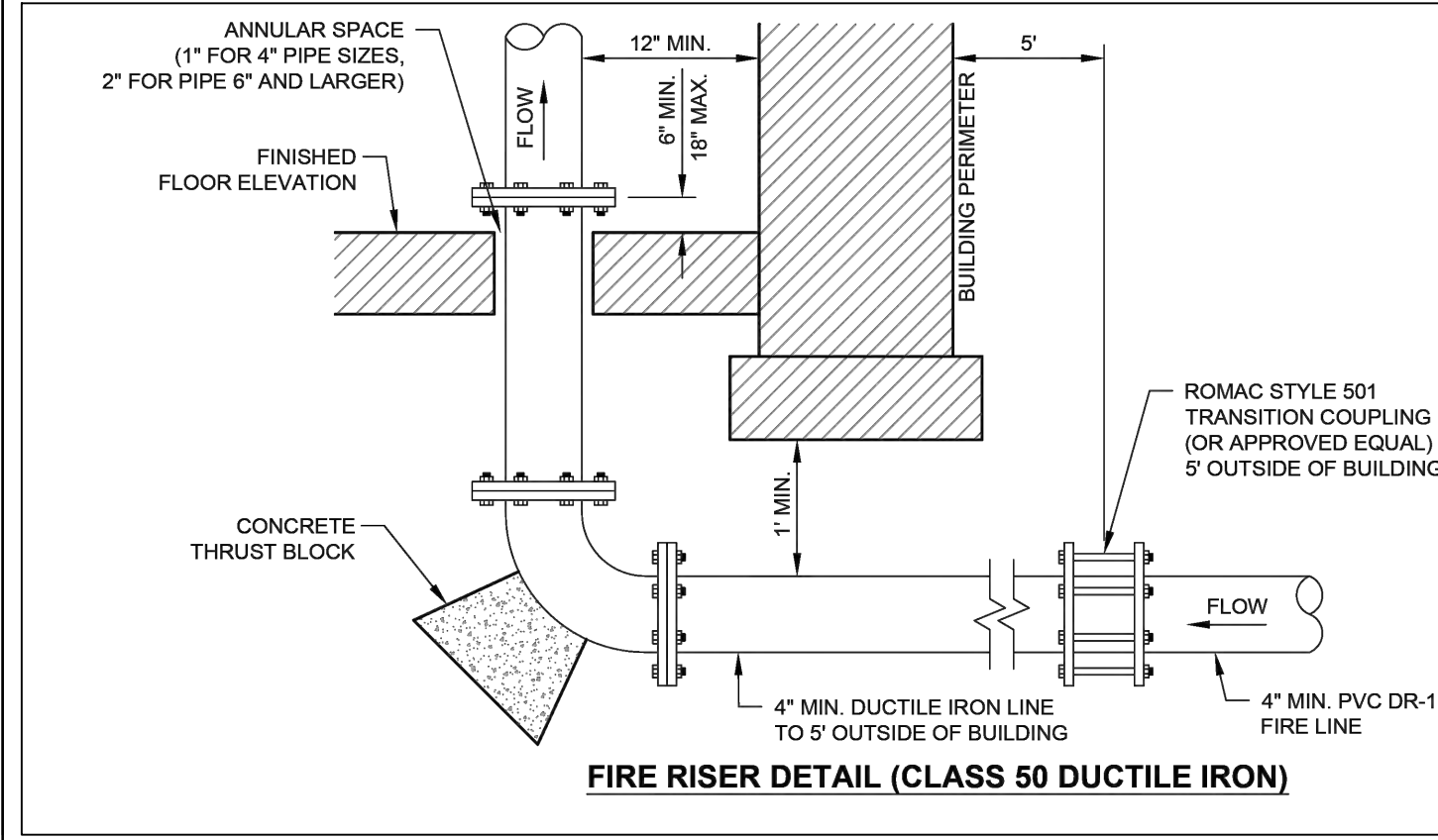


332

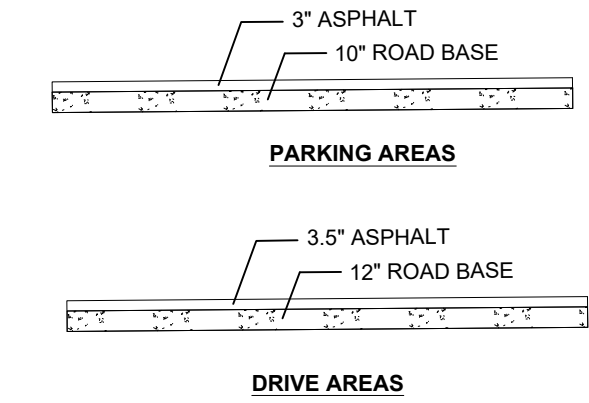


Precast box

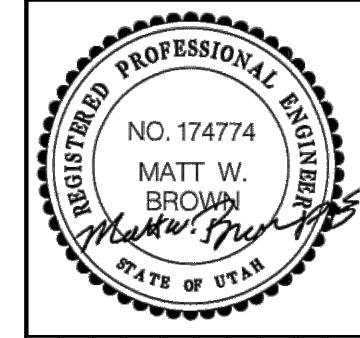
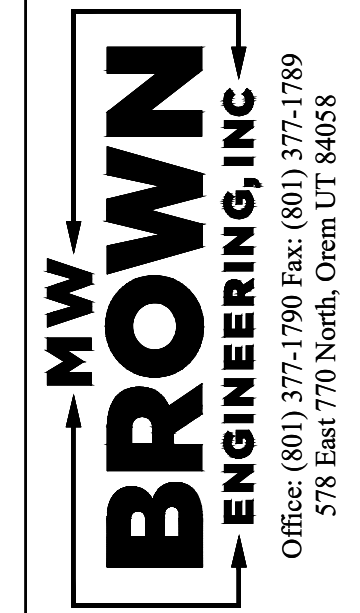
Plan 332  
June 2010



**PAVEMENT SECTIONS**



NOTE: PAVEMENT THICKNESSES REFERENCED FROM GEOTECHNICAL ENGINEERING STUDY SECTION 11.0 PREPARED BY CMT TECHNICAL SERVICES.



No.	Date	By	Notes

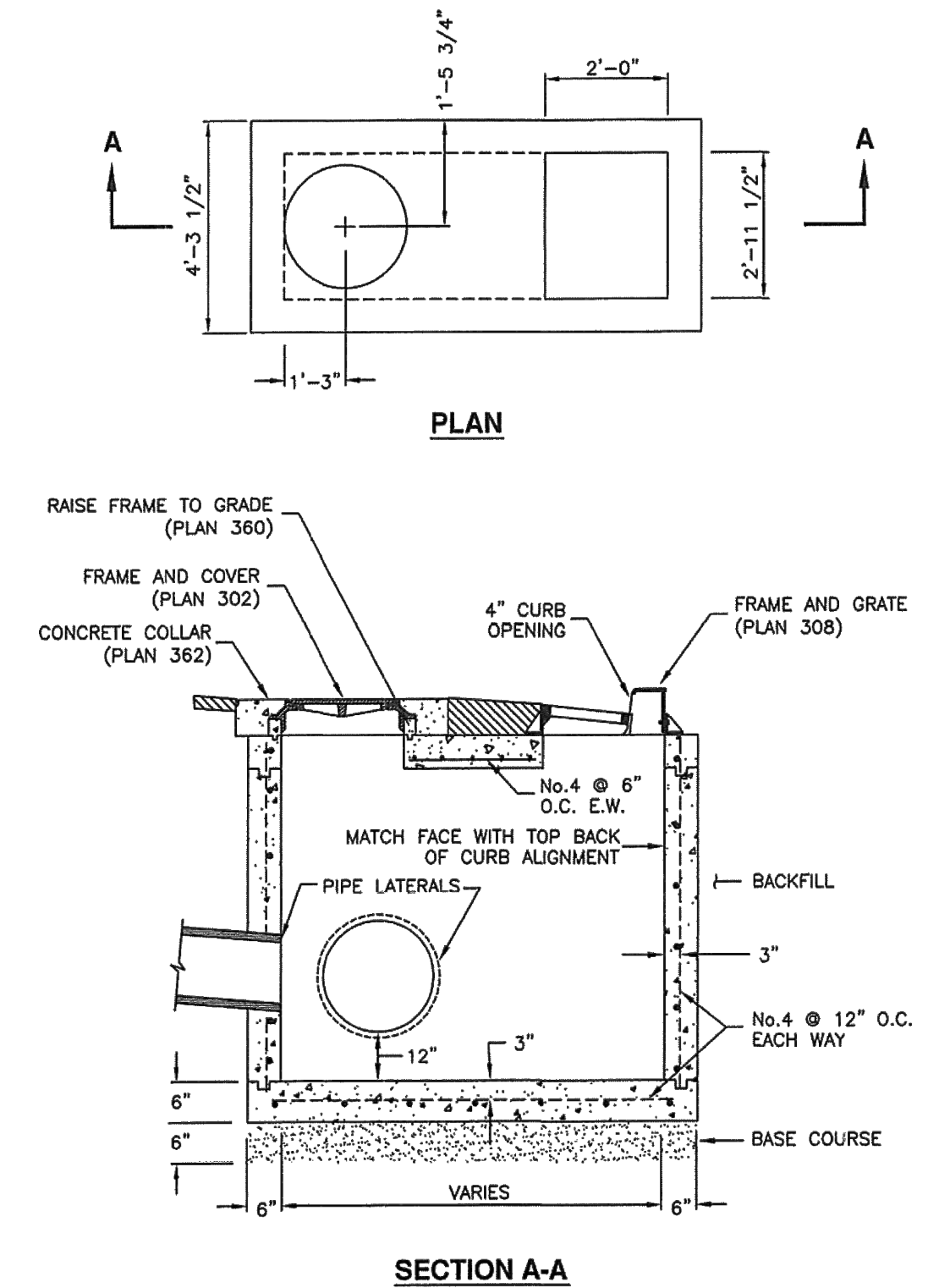
Designed  
Drawn  
Checked  
Date

Title: CITADEL SANTAQUIN  
Location: SANTAQUIN, UTAH  
Drawing Name: STANDARD DETAILS

PROJECT NO. 2023.018  
SHEET NO. 5.02

**Combination catch basin and cleanout box**

- GENERAL**
  - The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the box.
- PRODUCTS**
  - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - Concrete: Class 4000, APWA Section 03 30 04.
  - Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A615.
  - Ladder Rungs: Plastic, or plastic coated steel typically 8-inches wide.
- EXECUTION**
  - Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
  - Curb Face Opening: Make opening at least 4-inches high. Provide at least a 2-inch drop between the "begin warp" line in the gutter flow-line and the top of the grate at the curb face opening.
  - Ladder Rungs: Provide rungs in boxes over 6 feet deep. When measured from the floor of the box, place bottom rung the greater distance of 4 feet from the floor of the box or 1 foot above the top of the pipe. Place top rung within 3 feet of bottom of box ceiling.
  - Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
  - Backfill: Provide backfill against all sides of the box. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.



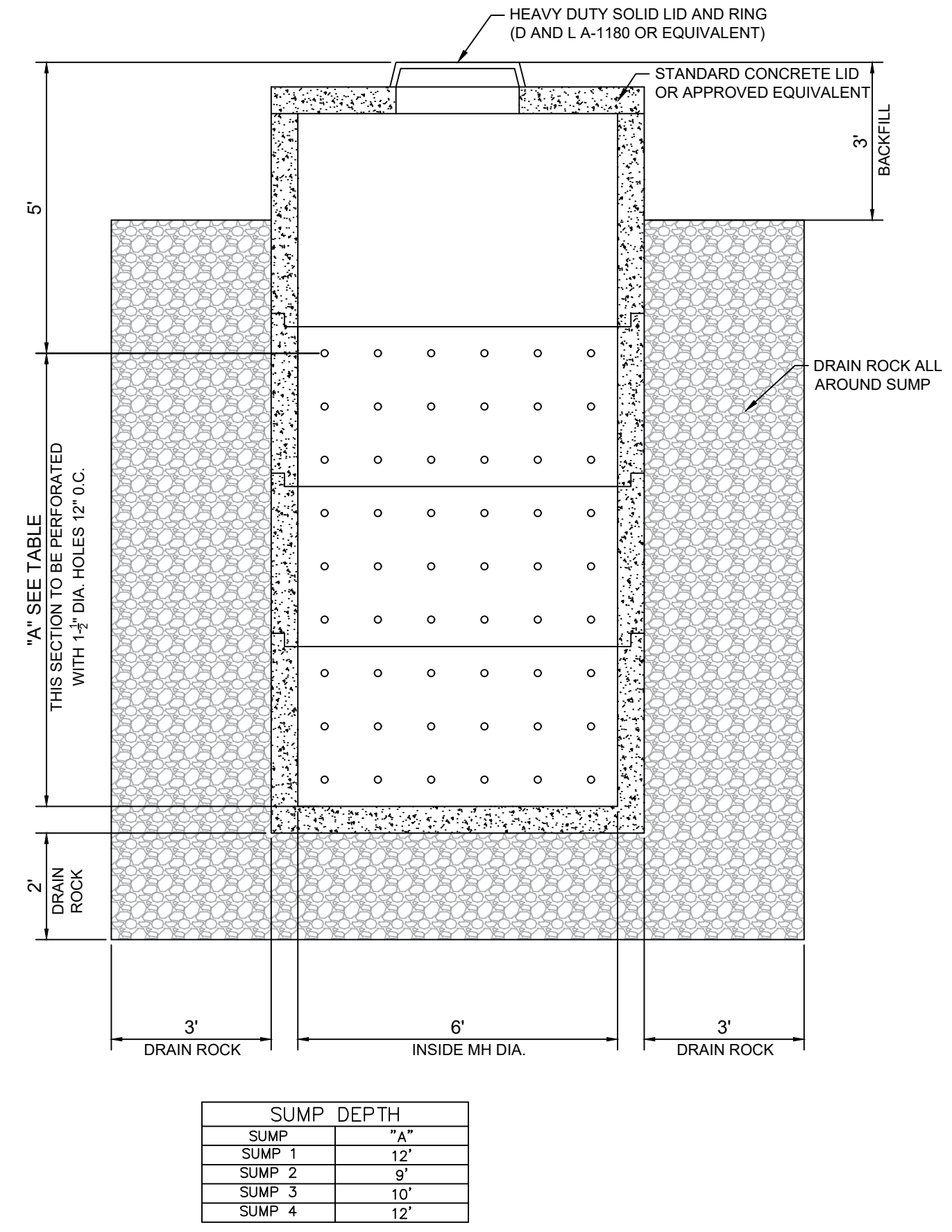
316



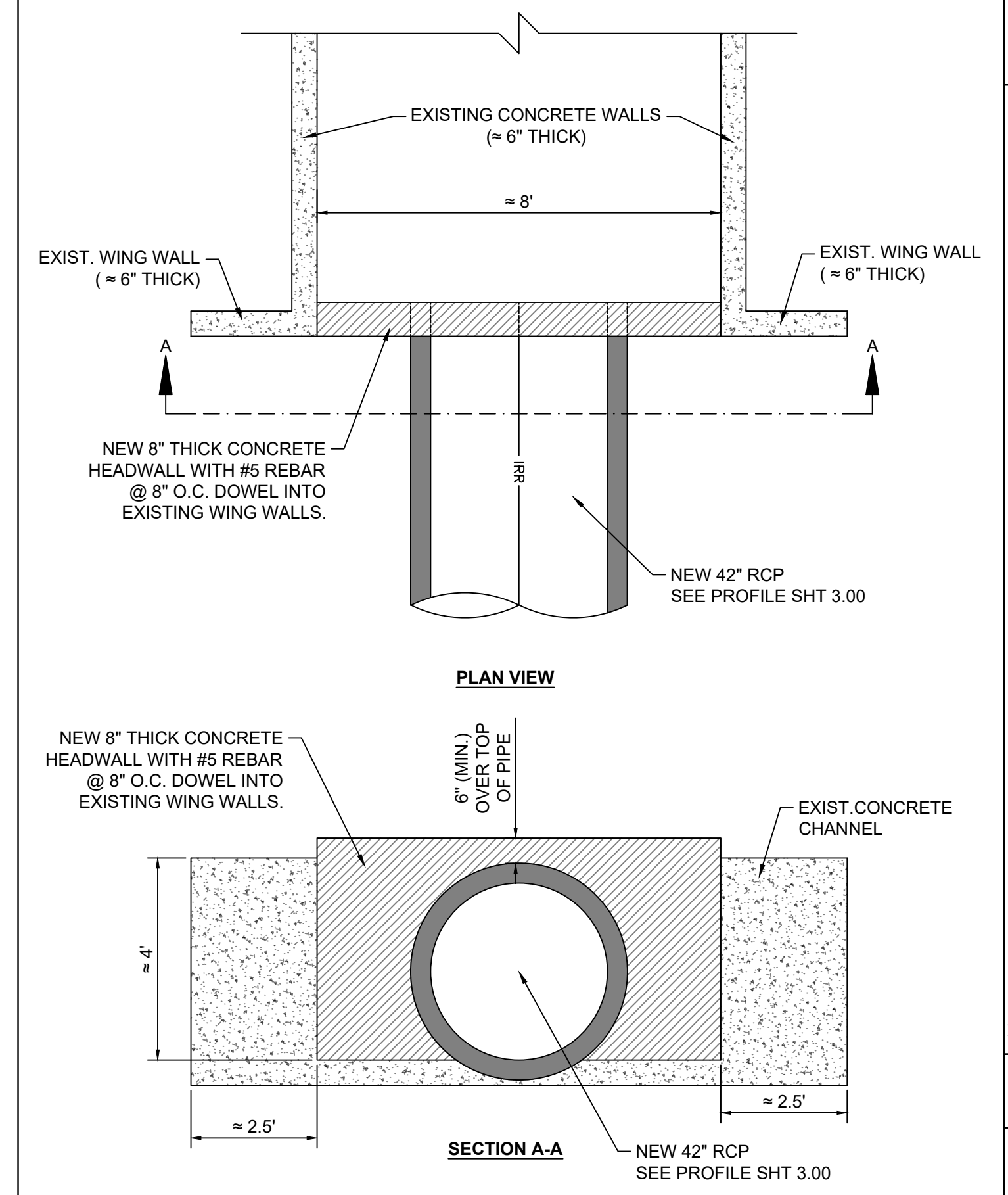
Combination catch basin and cleanout box

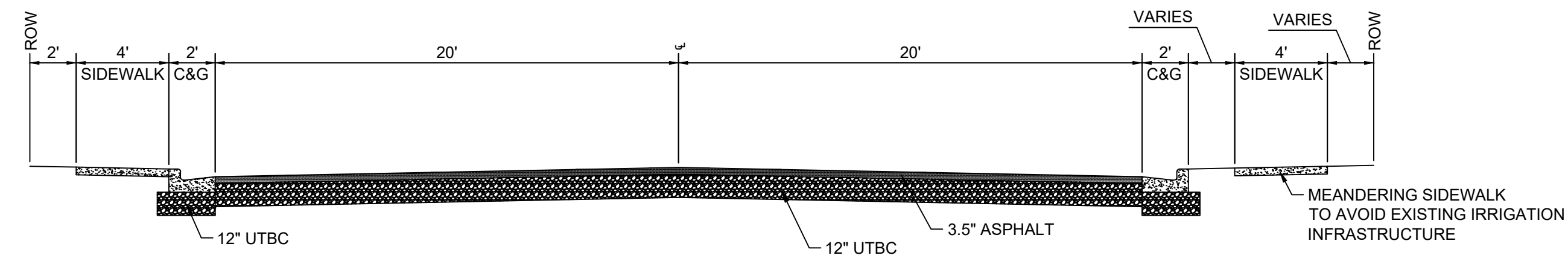
Plan 316  
March 2011

**SUMP DETAIL**



**42" RCP IRRIGATION HEADWALL**



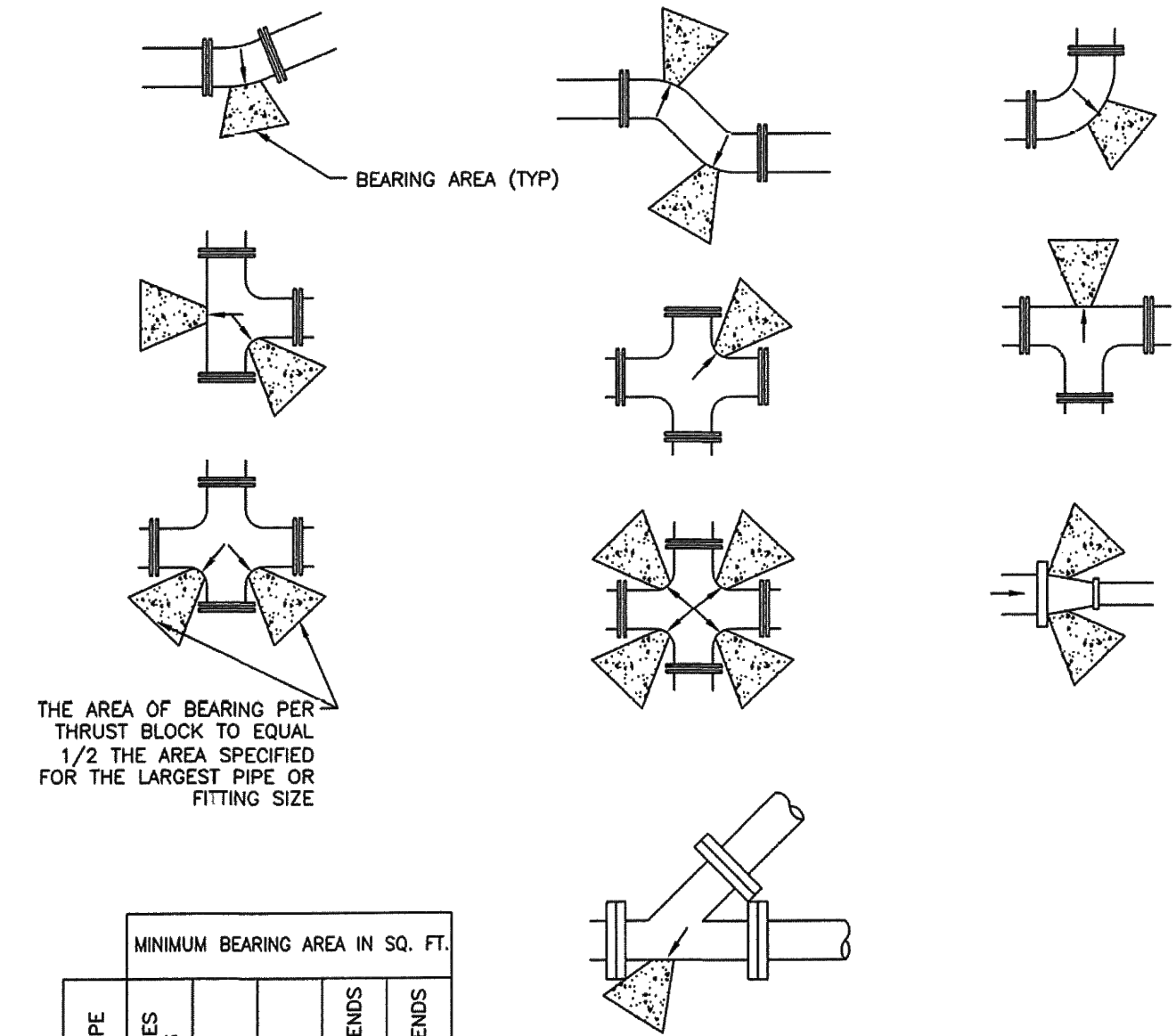


# 100 EAST CROSS SECTION

NOTE: CROSS SECTION MATCHES THE EXISTING CROSS SECTIONS ON BOTH THE NORTH AND SOUTH ENDS OF THE PROPOSED ROADWAY.

### Direct bearing thrust block

- GENERAL**
  - A. Thrust design for pipe sizes or configurations not shown require special design.
  - B. Bearing areas, volumes, and special thrust blocking details shown on Drawings take precedence over this plan.
  - C. Restraint sizing is based upon a maximum operating pressure of 150 psi and a test pressure of 200 psi, and a minimum soil bearing strength of 2,000 psf. Operating pressures in excess of 150 psi or soils with less than 2,000 pound bearing strength will require special design.
  - D. Before backfilling around thrust block, secure inspection of installation by ENGINEER.
- PRODUCTS**
  - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - C. Thrust Blocks: Concrete Class 4000, APWA Section 03 30 04.
  - D. Grease: Non-oxide poly-FM.
- EXECUTION**
  - A. Pour concrete against undisturbed soil.
  - B. Pipe Joints: Do not cover with concrete. Leave completely accessible.
  - C. Grease: Apply grease to all buried metal surfaces. Wrap with polyethylene sheet and tape wrap.
  - D. Locking restraint devices may be used in conjunction with concrete thrust blocking (at discretion of ENGINEER).
  - E. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.



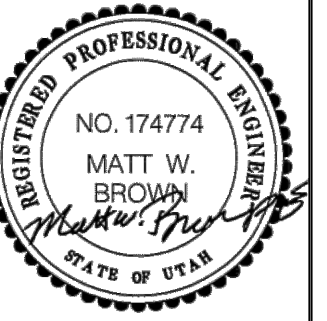
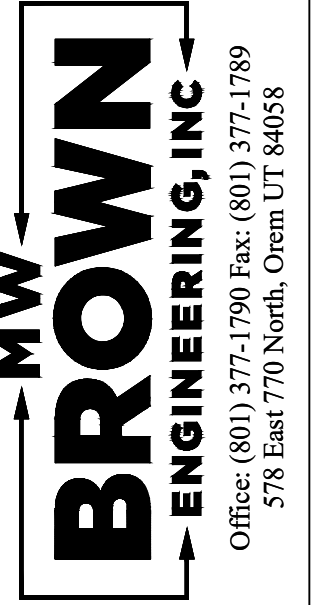
SIZE OF PIPE	MINIMUM BEARING AREA IN SQ. FT.					
	TEES, VALVES, DEAD ENDS	90° BENDS	45° BENDS	22 1/2° BENDS	11° BENDS	1/4° BENDS
4"	2	3	2	2	2	2
6"	4	5.5	3	2.5	2	2
8"	6.5	9.5	5	2.75	2.5	2
12"	14	20	11	5.5	3	3
14"	19	26.5	14.5	7.5	4	4
16"	24	34	18.5	9.5	6	6
20"	27	52	28.5	14.5	9	9
24"	53	74	41	21	12	12
30"	81	114	62	32	16	16



Direct bearing thrust block

Plan  
**561**  
August 2010

561



No.	Date	By	Notes

Designed \_\_\_\_\_  
Drawn \_\_\_\_\_  
Checked \_\_\_\_\_  
Date \_\_\_\_\_

Title: CITADEL SANTAQUIN  
Location: SANTAQUIN, UTAH  
Drawing Name: STANDARD DETAILS

PROJECT NO.  
2023.018

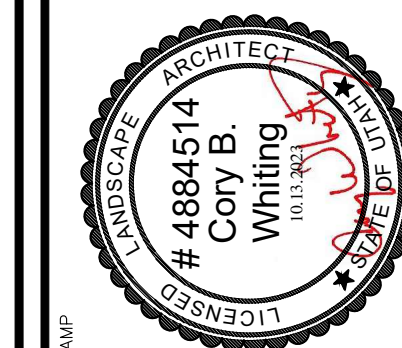
SHEET NO.  
5.03







CONSULTANTS:



STAMP

PROJECT:

**CITADEL SANTAQUIN**  
Ridgepoint Management  
Santaquin - Utah - 84655

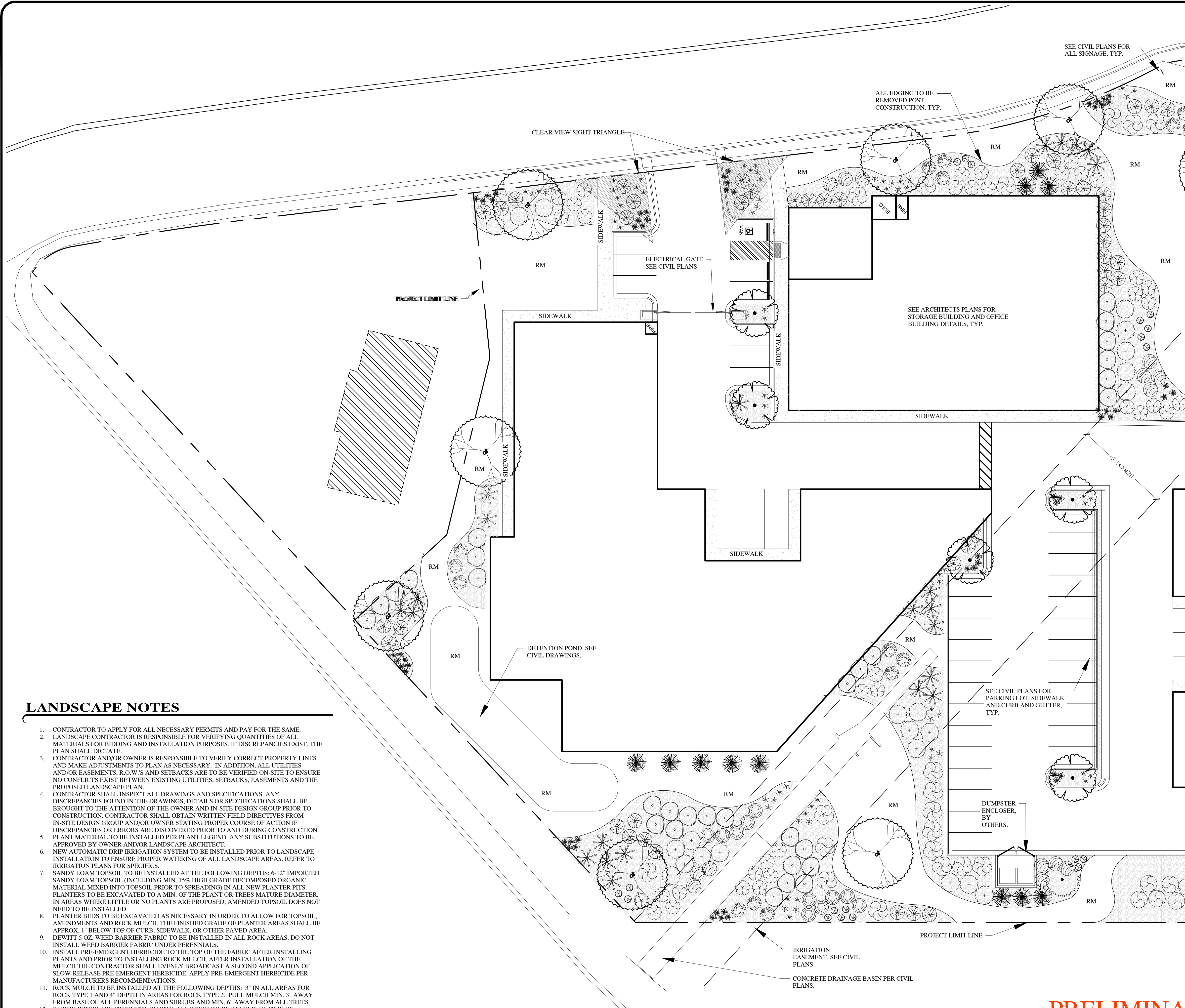
PROJECT:

SHEET TITLE:

DRAWN BY: **BDJ**  
CHECKED: **CBW**  
DATE: **10.13.2023**  
REVISIONS: --  
JOB NO. **23-119**

SHEET: **LS1.1**

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**DECIDUOUS TREE LEGEND**

SYMBOL	BOTANICAL NAME/COMMON NAME	QTY	SIZE
	GLEDTISIA TRIACANTHOS INERMIS 'IMPCOLE' IMPERIAL HONEY LOCUST	10	2" CAL.
	ZELKOVA SERRATA 'MUSASHINO' SAWLEAF ZELKOVA	5	2" CAL.

**EVERGREEN TREE LEGEND**

SYMBOL	BOTANICAL NAME/COMMON NAME	QTY	SIZE
	PINUS FLEXILIS 'VANDERWOLF' VANDERWOLF LIMBER PINE	4	6-7 TALL
	PICEA PUNGENS 'BABY BLUE EYES' BABY BLUE EYES SPRUCE	16	6-7 TALL

**DECIDUOUS SHRUB LEGEND**

SYMBOL	BOTANICAL NAME/COMMON NAME	QTY	SIZE
	BERBERIS THUNBERGII 'CRIMSON PYGMY' JAPANESE BARBERRY	35	5 GAL.
	CORNUS ALBA 'ELEGANTISSIMA' VARIEGATED REDTWIG DOGWOOD	44	5 GAL.
	HIBISCUS SYRIACUS 'ARDENS' ARDENS ROSE OF SHARON	28	5 GAL.
	PHYSOCARPUS OPULEFOLIUS 'SMNPOBLR' GINGER WINE NINEBARK	65	5 GAL.
	ROSA X 'HARISON'S YELLOW' HARISON'S YELLOW ROSE	67	5 GAL.
	FORSYTHIA X INTERMEDIA 'SPRING GLORY' FORSYTHIA	34	5 GAL.
	VIBURNUM OPULENS 'STERILE' EASTERN SNOWBALL VIBURNUM	18	5 GAL.
	GROW LOW SUMAC	32	5 GAL.
	SYRINGA VULGARIS MID BLOOMING COMMON PURPLE LILAC	29	5 GAL.
	SYRINGA VULGARIS 'BAILBRIDGET' VIRTUAL VIOLET	24	5 GAL.

**EVERGREEN SHRUB LEGEND**

SYMBOL	BOTANICAL NAME/COMMON NAME	QTY	SIZE
	JUNIPERUS HORIZONTALIS 'WILTONII' WILTON BLUE RUG JUNIPER	28	5 GAL.
	PINUS MUGO 'MUGUS 'PUMILIO' SHRUBBY SWISS MTN MUGO PINE	26	5 GAL.
	TAXUS X MEDIA 'DARK GREEN SPREADER' DARK GREEN SPREADER YEW	28	5 GAL.

**PERENNIALS / GRASSES LEGEND**

SYMBOL	BOTANICAL NAME/COMMON NAME	QTY	SIZE
	HEMEROCALIS 'PARDON ME' REBLOOMING DAYLILY	87	1 GAL.
	PENNISETUM ALOPECUROIDES 'KARL FOERSTER' FOUNTAIN GRASS	93	1 GAL.

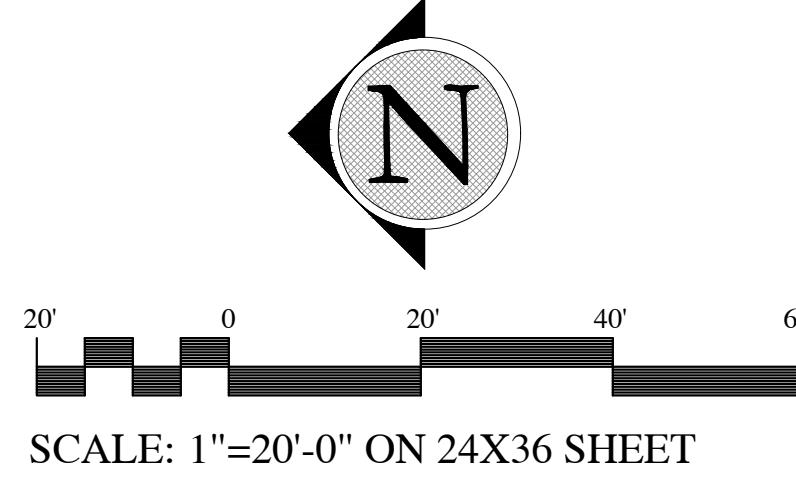
**SITE LANDSCAPE MATERIALS**

SYMBOL	BOTANICAL NAME/COMMON NAME	QTY
	ROCK MULCH TYPE 1: 3" DEPTH OF 3/4" SCREENED CRUSHED/ANGULAR ROCK. ROCK TO BE DOUBLE WASHED PRIOR TO PLACING ROCK ON TOP OF WEED BARRIER FABRIC. SEE DETAILS FOR ADDITIONAL INSTALLATION NOTES. ROCK COLOR AND TYPE T.B.D. BY OWNER AND CONTRACTOR DURING SUBMITTAL PROCESS. SUBMIT SAMPLE TO OWNER FOR APPROVAL.	PER PLAN
	ROCK MULCH TYPE 2: 4" DEPTH OF 1-2" SCREENED CRUSHED/ANGULAR ROCK. ROCK TO BE DOUBLE WASHED PRIOR TO PLACING ROCK ON TOP OF WEED BARRIER FABRIC. SEE DETAILS FOR ADDITIONAL INSTALLATION NOTES. ROCK COLOR AND TYPE T.B.D. BY OWNER AND CONTRACTOR DURING SUBMITTAL PROCESS. SUBMIT SAMPLE TO OWNER FOR APPROVAL.	PER PLAN

**LANDSCAPE NOTES**

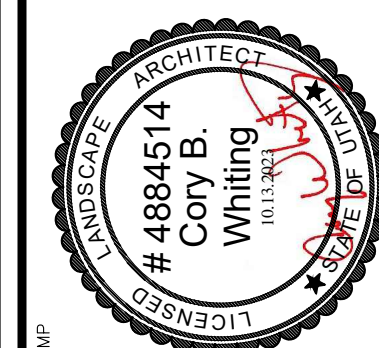
- CONTRACTOR TO APPLY FOR ALL NECESSARY PERMITS AND PAY FOR THE SAME. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES OF ALL MATERIALS FOR BIDDING AND INSTALLATION PURPOSES. IF DISCREPANCIES EXIST, THE PLAN SHALL DICTATE.
- CONTRACTOR AND/OR OWNER IS RESPONSIBLE TO VERIFY CORRECT PROPERTY LINES AND MAKE ADJUSTMENTS TO PLAN AS NECESSARY. IN ADDITION, ALL UTILITIES AND/OR EASEMENTS, R.O.W.'S AND SETBACKS ARE TO BE VERIFIED ON-SITE TO ENSURE NO CONFLICTS EXIST BETWEEN EXISTING UTILITIES, SETBACKS, EASEMENTS AND THE PROPOSED LANDSCAPE PLAN.
- CONTRACTOR SHALL INSPECT ALL DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCIES FOUND IN THE DRAWINGS, DETAILS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND IN-SITE DESIGN GROUP PRIOR TO CONSTRUCTION. CONTRACTOR SHALL OBTAIN WRITTEN FIELD DIRECTIVES FROM IN-SITE DESIGN GROUP AND/OR OWNER STATING PROPER COURSE OF ACTION IF DISCREPANCIES OR ERRORS ARE DISCOVERED PRIOR TO AND DURING CONSTRUCTION.
- PLANT MATERIAL TO BE INSTALLED PER PLANT LEGEND. ANY SUBSTITUTIONS TO BE APPROVED BY OWNER AND/OR LANDSCAPE ARCHITECT.
- NEW AUTOMATIC DRIP IRRIGATION SYSTEM TO BE INSTALLED PRIOR TO LANDSCAPE INSTALLATION TO ENSURE PROPER WATERING OF ALL LANDSCAPE AREAS. REFER TO IRRIGATION PLANS FOR SPECIFICS.
- SANDY LOAM TOPSOIL TO BE INSTALLED AT THE FOLLOWING DEPTHS: 6-12" IMPORTED SANDY LOAM TOPSOIL (INCLUDING MIN. 15% HIGH GRADE DECOMPOSED ORGANIC MATERIAL MIXED INTO TOPSOIL PRIOR TO SPREADING) IN ALL NEW PLANTER PTS. PLANTERS TO BE EXCAVATED TO A MIN. OF THE PLANT OR TREES MATURE DIAMETER. IN AREAS WHERE LITTLE OR NO PLANTS ARE PROPOSED, AMENDED TOPSOIL DOES NOT NEED TO BE INSTALLED.
- PLANTER BEDS TO BE EXCAVATED AS NECESSARY IN ORDER TO ALLOW FOR TOPSOIL, AMENDMENTS AND ROCK MULCH. THE FINISHED GRADE OF PLANTER AREAS SHALL BE APPROX. 1" BELOW TOP OF CURB, SIDEWALK, OR OTHER PAVED AREA.
- DEWITT 5 OZ. WEED BARRIER FABRIC TO BE INSTALLED IN ALL ROCK AREAS. DO NOT INSTALL WEED BARRIER FABRIC UNDER PERENNIALS.
- INSTALL PRE-EMERGENT HERBICIDE TO THE TOP OF THE FABRIC AFTER INSTALLING PLANTS AND PRIOR TO INSTALLING ROCK MULCH. AFTER INSTALLATION OF THE MULCH THE CONTRACTOR SHALL EVENLY BROADCAST A SECOND APPLICATION OF SLOW-RELEASE PRE-EMERGENT HERBICIDE. APPLY PRE-EMERGENT HERBICIDE PER MANUFACTURERS RECOMMENDATIONS.
- ROCK MULCH TO BE INSTALLED AT THE FOLLOWING DEPTHS: 3" IN ALL AREAS FOR ROCK TYPE 1 AND 4" DEPTH IN AREAS FOR ROCK TYPE 2. PULL MULCH MIN. 3" AWAY FROM BASE OF ALL PERENNIALS AND SHRUBS AND MIN. 6" AWAY FROM ALL TREES. IF HIGH WINDS ARE FREQUENT ON SITE, ALL TREES TO BE STAKED AT TIME OF PLANTING. SEE DETAILS FOR SPECIFICS. REMOVE STAKING WITHIN FIRST YEAR OR WHEN TREE IS ESTABLISHED.
- ALL EDGING USED AT THE TIME OF ROCK MULCH INSTALLATION SHALL BE REMOVED UPON FINAL INSTALLMENT. EDGING IS ONLY TO BE INSTALLED IN ORDER TO MAINTAIN A CLEAN DIVIDING LINE BETWEEN ROCK TYPES.
- SEE ARCHITECT AND CIVIL PLANS FOR ALL BUILDING AND SITE INFORMATION.

**PRELIMINARY PLAN**  
**NOT FOR CONSTRUCTION**





CONSULTANTS:



STAMP

**CITADEL SANTAQUIN**  
Ridgepoint Management  
Santaquin - Utah - 84655

PROJECT:

PLANTING  
PLAN

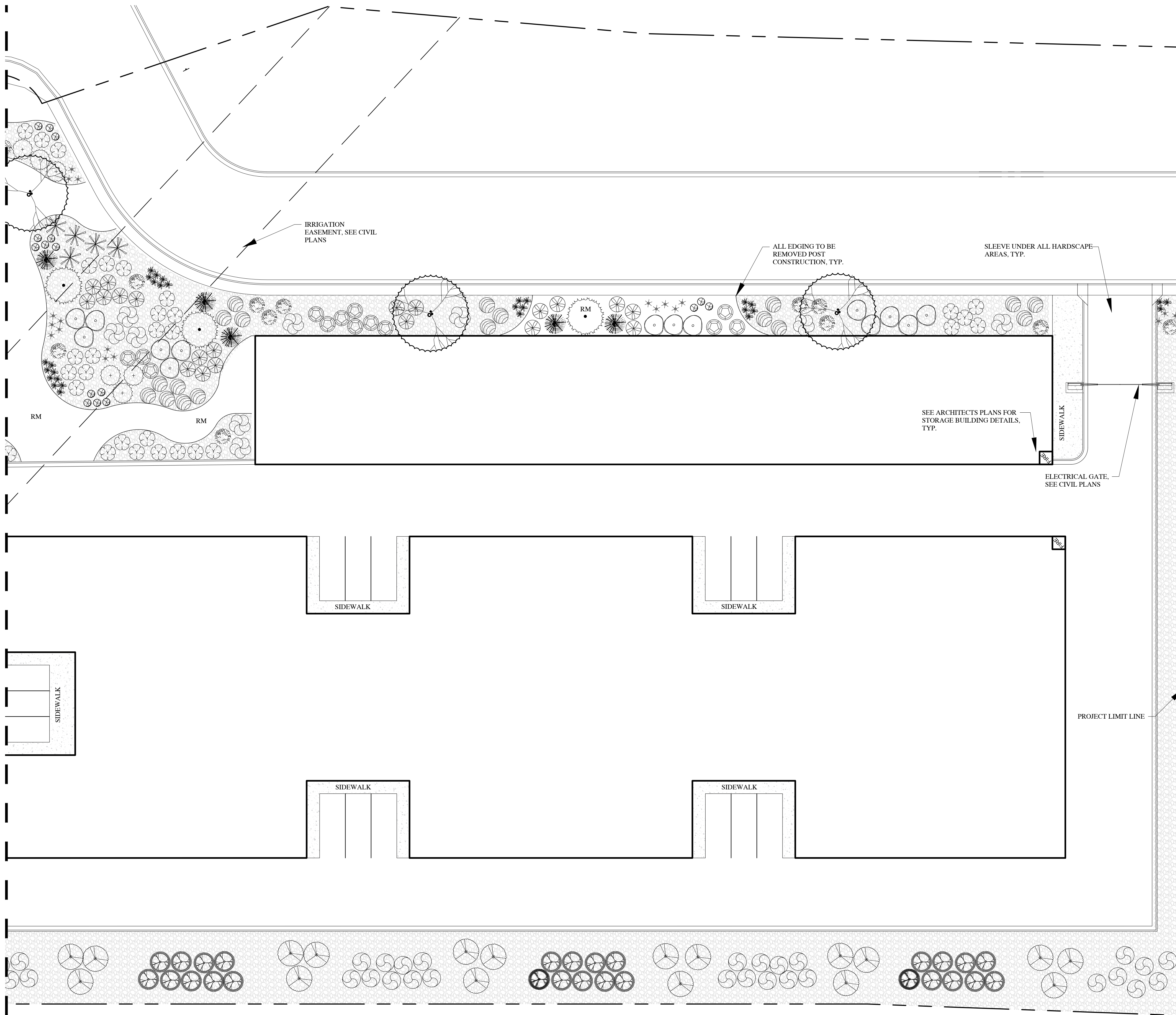
SHEET TITLE:

DRAWN BY: BDJ  
CHECKED: CBW  
DATE: 10.13.2023  
REVISIONS: --  
JOB NO. 23-119

SHEET:

LS1.2

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SEE SHEET LS1.1

**DECIDUOUS TREE LEGEND**

SYMBOL	BOTANICAL NAME/COMMON NAME	QTY	SIZE
	GLEDITSIA TRIACANTHOS INERMIS 'IMPERIAL HONEY LOCUST'	10	2" CAL.
	ZELKOVA SERRATA 'MUSASHINO' SAWLEAF ZELKOVA	5	2" CAL.

**EVERGREEN TREE LEGEND**

SYMBOL	BOTANICAL NAME/COMMON NAME	QTY	SIZE
	PINUS FLEXILIS 'VANDERWOLF' VANDERWOLF LUMBER PINE	4	6-7 TALL
	PICEA PUNGENS 'BABY BLUE EYES' BABY BLUE EYES SPRUCE	16	6-7 TALL

**DECIDUOUS SHRUB LEGEND**

SYMBOL	BOTANICAL NAME/COMMON NAME	QTY	SIZE
	BERBERIS THUNBERGII 'CRIMSON PYGMY' JAPANESE BARBERRY	35	5 GAL.
	CORNUS ALBA 'ELEGANTISSIMA' VARIEGATED REDTWIG DOGWOOD	44	5 GAL.
	HIBISCUS SYRIACUS 'ARDENS' ARDENS ROSE OF SHARON	28	5 GAL.
	PHYSOCARPUS OPULIFOLIUS 'SMNOPBL' GINGER WINE NINEBARK	65	5 GAL.
	ROSA X HARISON'S 'YELLOW' HARISON'S YELLOW ROSE	67	5 GAL.
	FORSYTHIA X INTERMEDIA 'SPRING GLORY' FORSYTHIA	34	5 GAL.
	VIBURNUM OPULUS 'STERILE' EASTERN SNOWBALL VIBURNUM	18	5 GAL.
	GROW LOW SUMAC	32	5 GAL.
	SYRINGA VULGARIS 'MID BLOOMING COMMON PURPLE LILAC'	29	5 GAL.
	SYRINGA VULGARIS 'BAILBRIDGET' VIRTUAL VIOLET MID BLOOMING PURPLE LILAC	24	5 GAL.

**EVERGREEN SHRUB LEGEND**

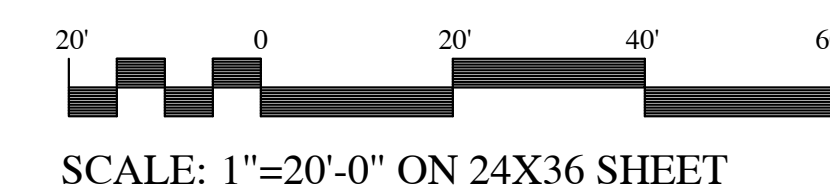
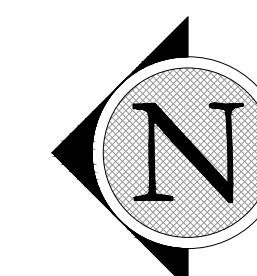
SYMBOL	BOTANICAL NAME/COMMON NAME	QTY	SIZE
	JUNIPERUS HORIZONTALIS 'WILTONII' WILTON BLUE RUG JUNIPER	28	5 GAL.
	PINUS MUGO 'MUGUS 'PUMILIO' SHRUBBY SWISS MTN MUGO PINE	26	5 GAL.
	TAXUS X MEDIA 'DARK GREEN SPREADER' DARK GREEN SPREADER YEW	28	5 GAL.

**PERENNIALS / GRASSES LEGEND**

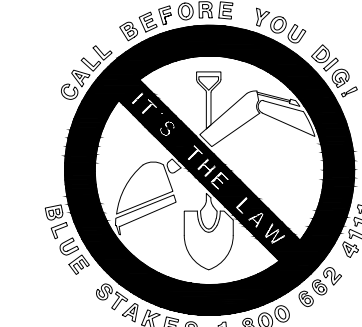
SYMBOL	BOTANICAL NAME/COMMON NAME	QTY	SIZE
	HEMEROCALLIS 'PARDON ME' REBLOOMING DAYLILY	87	1 GAL.
	PENNISETUM ALOPECUROIDES 'KARL FOERSTER' FOUNTAIN GRASS	93	1 GAL.

**SITE LANDSCAPE MATERIALS**

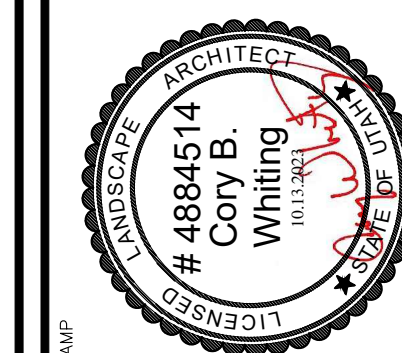
SYMBOL	BOTANICAL NAME/COMMON NAME	QTY
	ROCK MULCH TYPE 1: 3" DEPTH OF 3/4" SCREENED CRUSHED/ANGULAR ROCK. ROCK TO BE DOUBLE WASHED PRIOR TO PLACING ROCK ON TOP OF WEED BARRIER FABRIC. SEE DETAILS FOR ADDITIONAL INSTALLATION NOTES. ROCK COLOR AND TYPE T.B.D. BY OWNER AND CONTRACTOR DURING SUBMITTAL PROCESS. SUBMIT SAMPLE TO OWNER FOR APPROVAL.	PER PLAN
	ROCK MULCH TYPE 2: 4" DEPTH OF 1-2" SCREENED CRUSHED/ANGULAR ROCK. ROCK TO BE DOUBLE WASHED PRIOR TO PLACING ROCK ON TOP OF WEED BARRIER FABRIC. SEE DETAILS FOR ADDITIONAL INSTALLATION NOTES. ROCK COLOR AND TYPE T.B.D. BY OWNER AND CONTRACTOR DURING SUBMITTAL PROCESS. SUBMIT SAMPLE TO OWNER FOR APPROVAL.	PER PLAN



**PRELIMINARY PLAN**  
**NOT FOR CONSTRUCTION**



CONSULTANTS:



STAMP

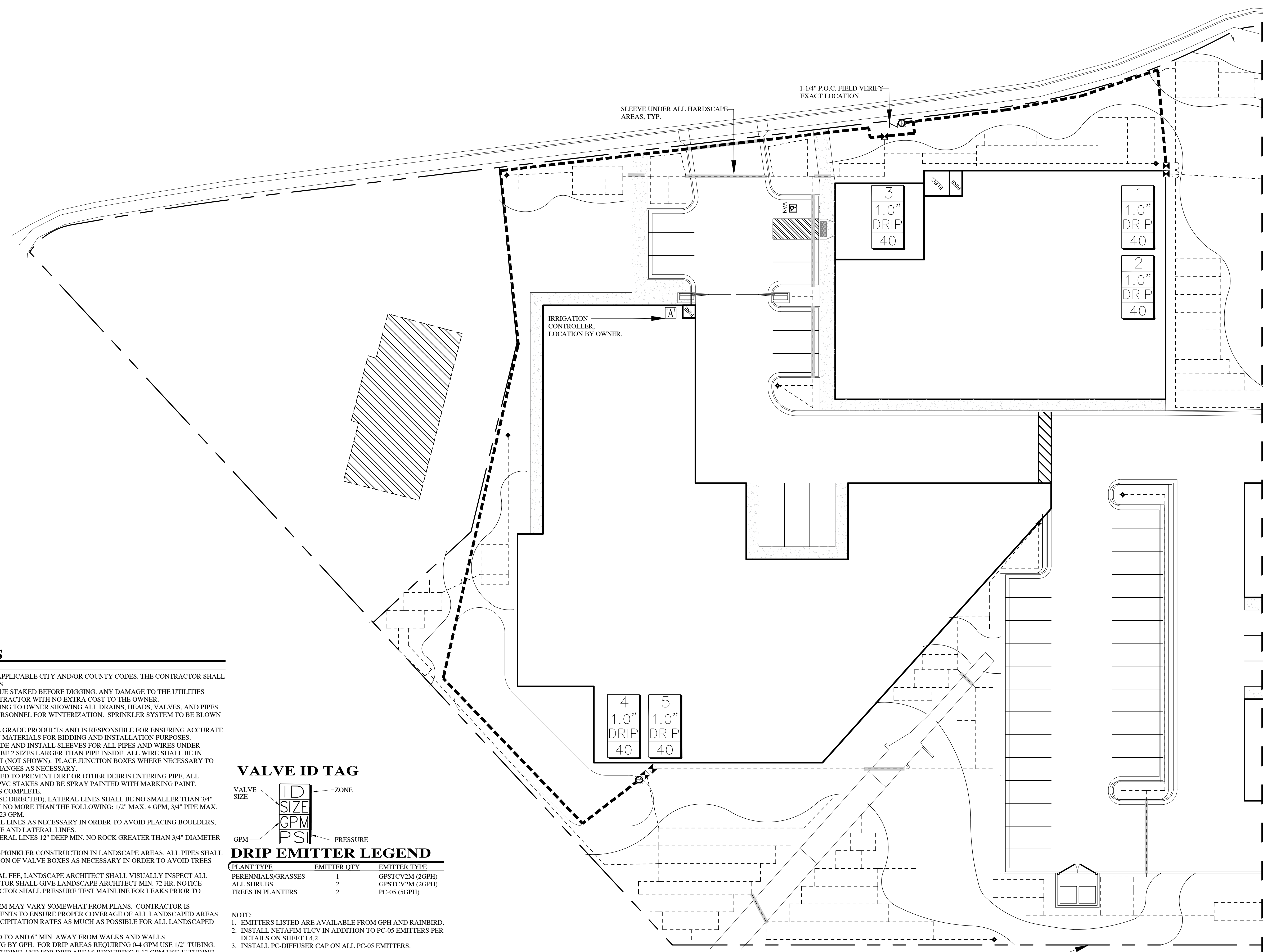
PROJECT: **CITADEL SANTAQUIN**  
Ridgepoint Management  
Santaquin - Utah - 84655

SHEET TITLE: **PLANTING PLAN**

DRAWN BY: **BDJ**  
CHECKED: **CBW**  
DATE: **10.13.2023**  
REVISIONS: --  
JOB NO.: **23-119**  
SHEET:

**LS2.1**

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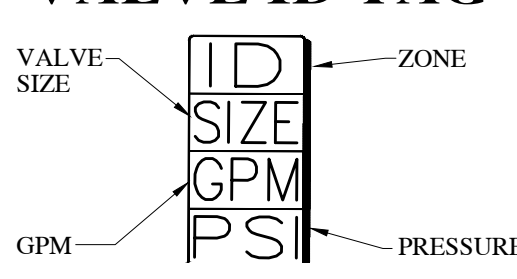


SEE SHEET LS2.2

**IRRIGATION NOTES**

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- CONTRACTOR SHALL HAVE ALL UTILITIES BLUE STAKED BEFORE DIGGING. ANY DAMAGE TO THE UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF CONTRACTOR WITH NO EXTRA COST TO THE OWNER.
- PROVIDE AN AS-BUILT, REPRODUCIBLE DRAWING TO OWNER SHOWING ALL DRAINS, HEADS, VALVES, AND PIPES. PROVIDE INSTRUCTIONS TO MAINTENANCE PERSONNEL FOR WINTERIZATION. SPRINKLER SYSTEM TO BE BLOWN OUT WITH AN AIR COMPRESSOR EACH FALL.
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- ALL SLEEVES INSTALLED SHALL BE DUCT TAPED TO PREVENT DIRT OR OTHER DEBRIS ENTERING PIPE. ALL SLEEVES SHALL BE IDENTIFIED BY WOOD OR PVC STAKES AND BE SPRAY PAINTED WITH MARKING PAINT. REMOVE STAKES ONCE IRRIGATION SYSTEM IS COMPLETE.
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- CONTRACTOR AND OWNER SHALL FLUSH THE SYSTEM EACH FALL THROUGH THE QUICK COUPLER VALVE. THE ENTIRE IRRIGATION SYSTEM SHALL BE WINTERIZED EACH FALL BY USE OF AN AIR COMPRESSOR.
- THE IRRIGATION SYSTEM HAS BEEN DESIGNED WITH A MIN. FLOW OF 13 GPM THROUGH THE 1" SERVICE LINE. THE CONTRACTOR SHALL FIELD VERIFY THAT THERE IS 13 GPM AT THE POINT OF CONNECT AFTER THE 1" WATER P.I. METER. IF SUFFICIENT FLOW IS NOT AVAILABLE, SOME REDESIGN OF THE VALVE/ZONES WILL BE REQUIRED. NOTIFY LANDSCAPE ARCHITECT OF FLOW TEST PRIOR TO INSTALLING ANY IRRIGATION SYSTEM COMPONENTS.

**VALVE ID TAG**



**DRIP EMITTER LEGEND**

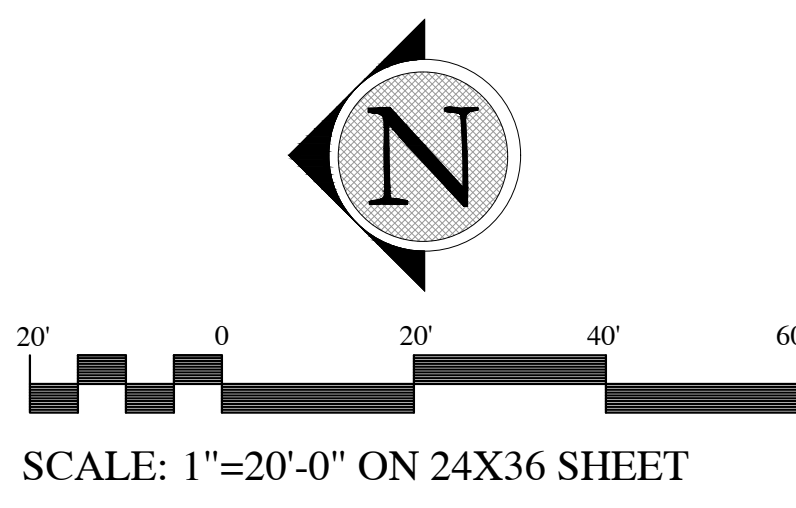
PLANT TYPE	EMITTER QTY	EMITTER TYPE
PERENNIALS/GRASSES	1	GPSTCV2M (2GPH)
ALL SHRUBS	2	GPSTCV2M (2GPH)
TREES IN PLANTERS	2	PC-05 (5GPH)

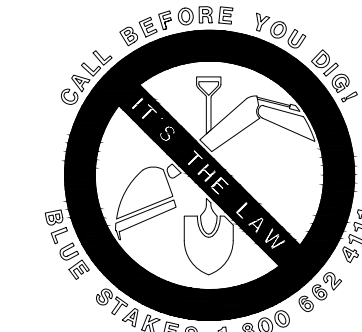
- NOTE:
- EMITTERS LISTED ARE AVAILABLE FROM GPH AND RAINBRD.
  - INSTALL NETAFIM TLVCV IN ADDITION TO PC-05 EMITTERS PER DETAILS ON SHEET L4.2
  - INSTALL PC-DIFFUSER CAP ON ALL PC-05 EMITTERS.

**IRRIGATION LEGEND**

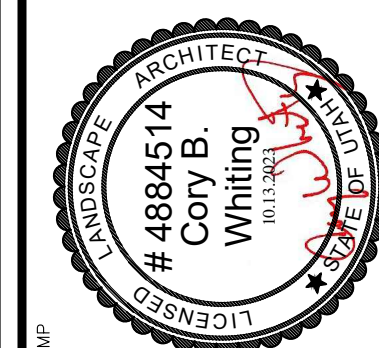
SYMBOL	MANUFACTURER-MODEL NUMBER	PAT.	RD.	PSI	GPM										DRIP GPH	DETAILS	REMARKS
					Q	T	H	TT	TQ	F							
NOT SHOWN	NETAFIM Techline® TLVCV DRILINE	FULL	--	30	--	--	--	--	--	--	--	--	--	26	14-16		
NOT SHOWN	RAINBRD PC-05 EMITTER W/ DIFFUSER CAP	FULL	--	30	--	--	--	--	--	--	--	--	--	5.0	14-16	INSTALL DIFFUSER CAP	
NOT SHOWN	GPSTCV2M	FULL	--	40	--	--	--	--	--	--	--	--	--	2.0	11-13		
[Symbol]	RAINBRD ESP-SMT SMART CONTROLLER - WALL MOUNT. GROUND CONTROLLER PER MANUFACTURERS SPECS. SIZE CONTROLLER AS REQUIRED.														1	COORDINATE LOCATION WITH OWNER	
[Symbol]	1-1/4" PRESSURIZED POINT OF CONNECTION WITH FILTER. SEE DETAILS FOR MORE INFORMATION.														2-3	JUMBO VALVE BOX	
[Symbol]	1" RAINBRD QUICK COUPLER, MODEL #44NP.														7	IN 10" RND. VALVE BOX	
[Symbol]	DRIP CONTROL ZONE KIT: KCZ-100-PRB-COM														8-10	JUMBO VALVE BOX	
[Symbol]	MAINLINE: 1-1/4" SCH. 40 PVC W/ SCH 80 FITTINGS.														4-5	REFERENCE DETAILS	
[Symbol]	PVC DRIP HEADER/FOOTER: PVC SCH. 40 AND/OR AR TUBING BY GPH (SEE DETAILS FOR NETAFIM LAYOUT)														4.5, 11-16	REFERENCE DETAILS	
[Symbol]	SCH. 40 OR CLASS 200 SLEEVE (TBD BY OWNER). SIZE TO MIN. 2X DIA. OF PIPE WITHIN SLEEVE OR AS NOTED ON PLANS.														6	ADD SLEEVES AS REQUIRED	
[Symbol]	FLUSH VALVE: 1/2" PVC BALL VALVE. INSTALL AT END OF ALL DRIP LINES IN 10" ROUND VALVE BOX														12	REFERENCE DETAILS	
[Symbol]	12 GAUGE SOLID COPPER SINGLE STRAND DIRECT BURIAL WIRE														1,4-5	REFERENCE DETAILS	

**PRELIMINARY PLAN**  
**NOT FOR CONSTRUCTION**





CONSULTANTS



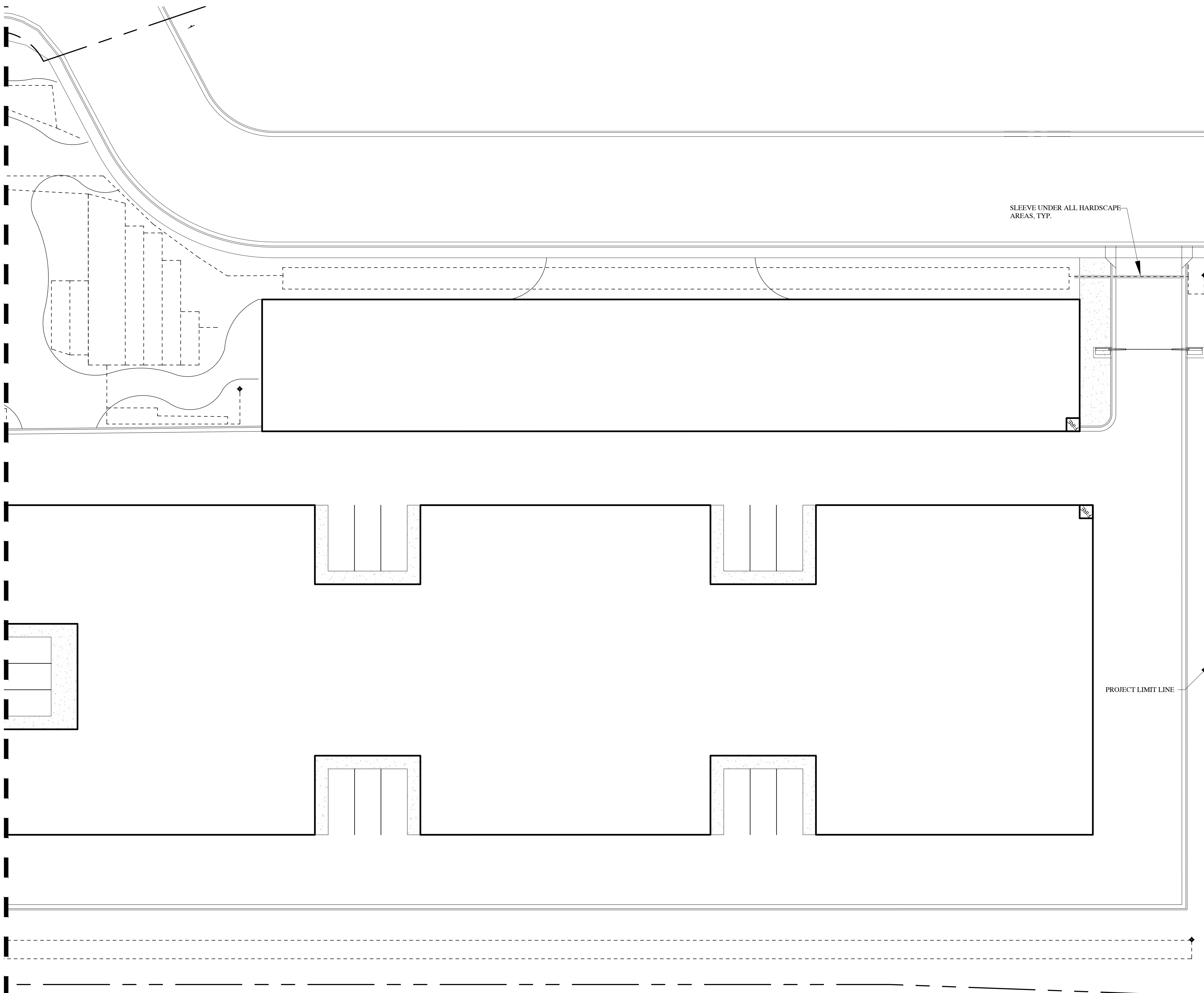
STAMP

PROJECT

SHEET TITLE

SHEET

SEE SHEET LS2.1



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**IRRIGATION LEGEND**

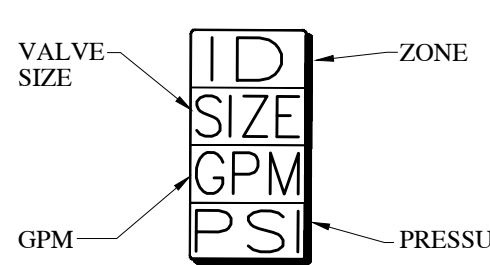
SYMBOL	MANUFACTURER-MODEL NUMBER	PAT.	RD.	PSI	GPM						DRIP GPH	DETAILS SEE SHEETS L2.1, L2.2	REMARKS	
					Q	T	H	TT	TQ	F				
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	RAINBIRD ESP-SMT SMART CONTROLLER - WALL MOUNT. GROUND CONTROLLER PER MANUFACTURERS SPECS. SIZE CONTROLLER AS REQUIRED.												1	COORDINATE LOCATION WITH OWNER
	1-1/4" PRESSURIZED POINT OF CONNECTION WITH FILTER. SEE DETAILS FOR MORE INFORMATION.												2-3	JUMBO VALVE BOX
	1" RAINBIRD QUICK COUPLER, MODEL #4NP.												7	IN 10" RND. VALVE BOX
	DRIP CONTROL ZONE KIT: XEZ-100-PRB-COM												8-10	JUMBO VALVE BOX
	MAINLINE: 1-1/4" SCH. 40 PVC W/ SCH 80 FITTINGS.												4-5	REFERENCE DETAILS
	PVC DRIP HEADER/FOOTER: PVC SCH. 40 AND/OR AR TUBING BY GPH (SEE DETAILS FOR NETAFIM LAYOUT)												4-5, 11-16	REFERENCE DETAILS
	SCH. 40 OR CLASS 200 SLEEVE (TBD BY OWNER). SIZE TO MIN. 2X DIA. OF PIPE WITHIN SLEEVE OR AS NOTED ON PLANS.												6	ADD SLEEVES AS REQUIRED
	FLUSH VALVE: 1/2" PVC BALL VALVE. INSTALL AT END OF ALL DRIP LINES IN 10" ROUND VALVE BOX												12	REFERENCE DETAILS
NOT SHOWN	12 GAUGE SOLID COPPER SINGLE STRAND DIRECT BURIAL WIRE.												1,4-5	REFERENCE DETAILS

**DRIP EMITTER LEGEND**

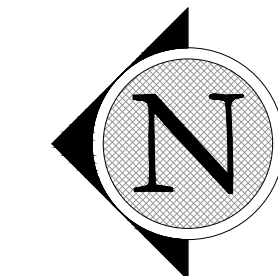
PLANT TYPE	EMITTER QTY	EMITTER TYPE
PERENNIALS/GRASSES	1	GPSTCV2M (2GPH)
ALL SHRUBS	2	GPSTCV2M (2GPH)
TREES IN PLANTERS	2	PC-05 (5GPH)

- NOTE:  
1. EMITTERS LISTED ARE AVAILABLE FROM GPH AND RAINBIRD.  
2. INSTALL NETAFIM TLCV IN ADDITION TO PC-05 EMITTERS PER DETAILS ON SHEET L4.2  
3. INSTALL PC-DIFFUSER CAP ON ALL PC-05 EMITTERS.

**VALVE ID TAG**



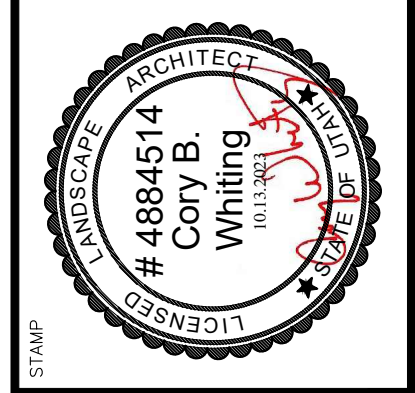
PRELIMINARY PLAN  
NOT FOR CONSTRUCTION







CONSULTANTS



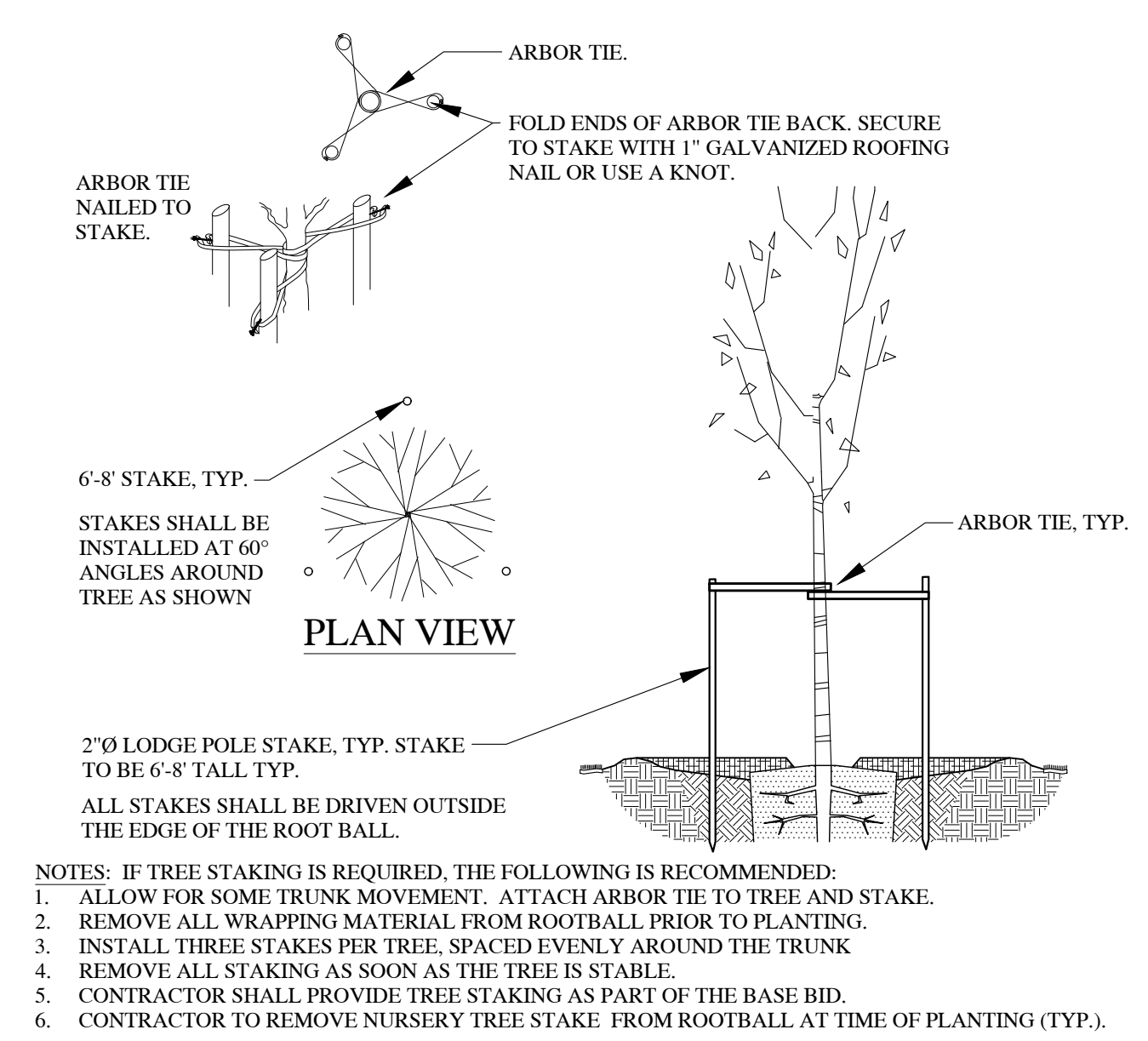
STAMP

PROJECT

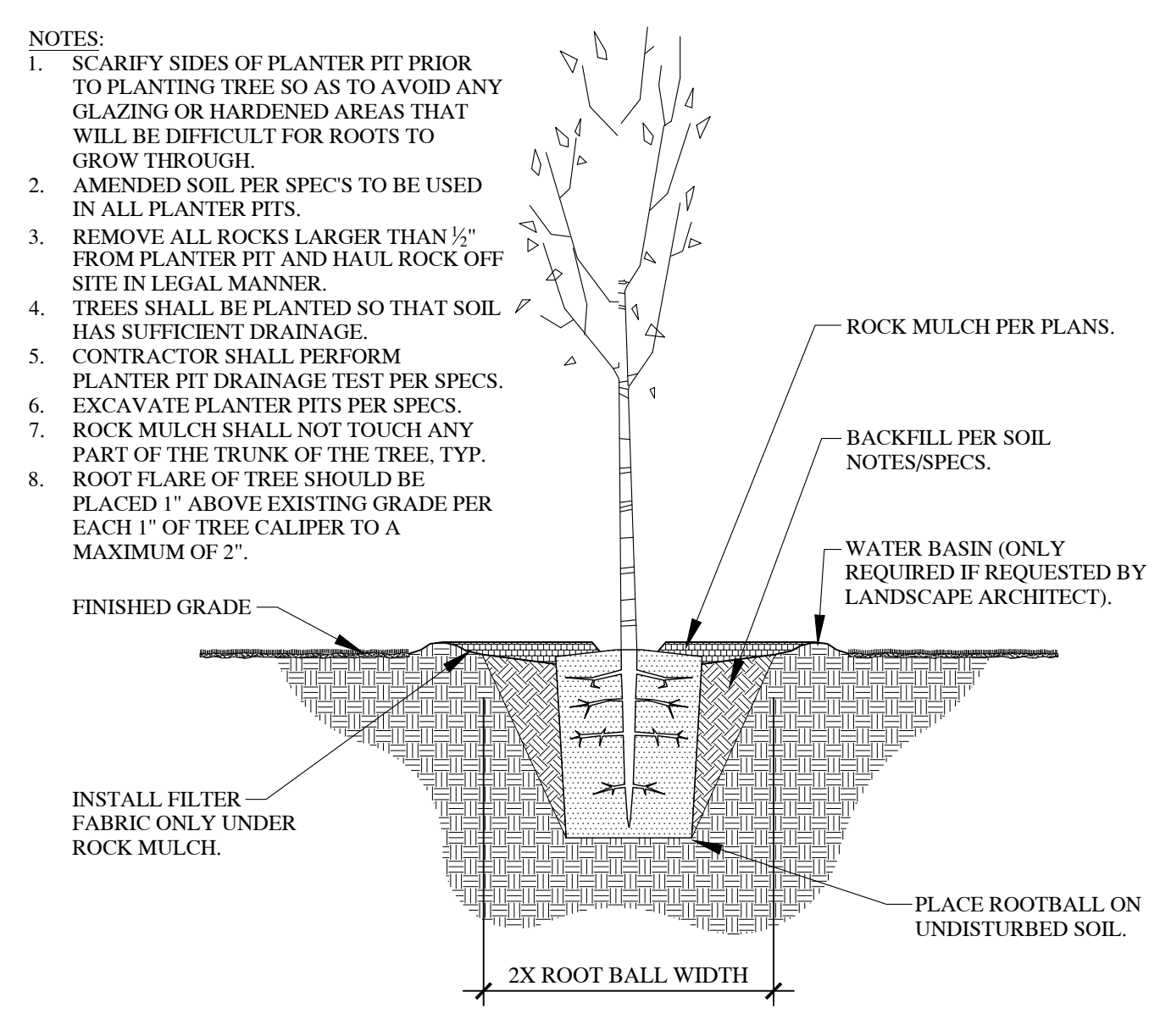
SHEET TITLE

DRAWN BY:	BDJ
CHECKED:	CBW
DATE:	10.13.2023
REVISIONS:	-
JOB NO.	23-119

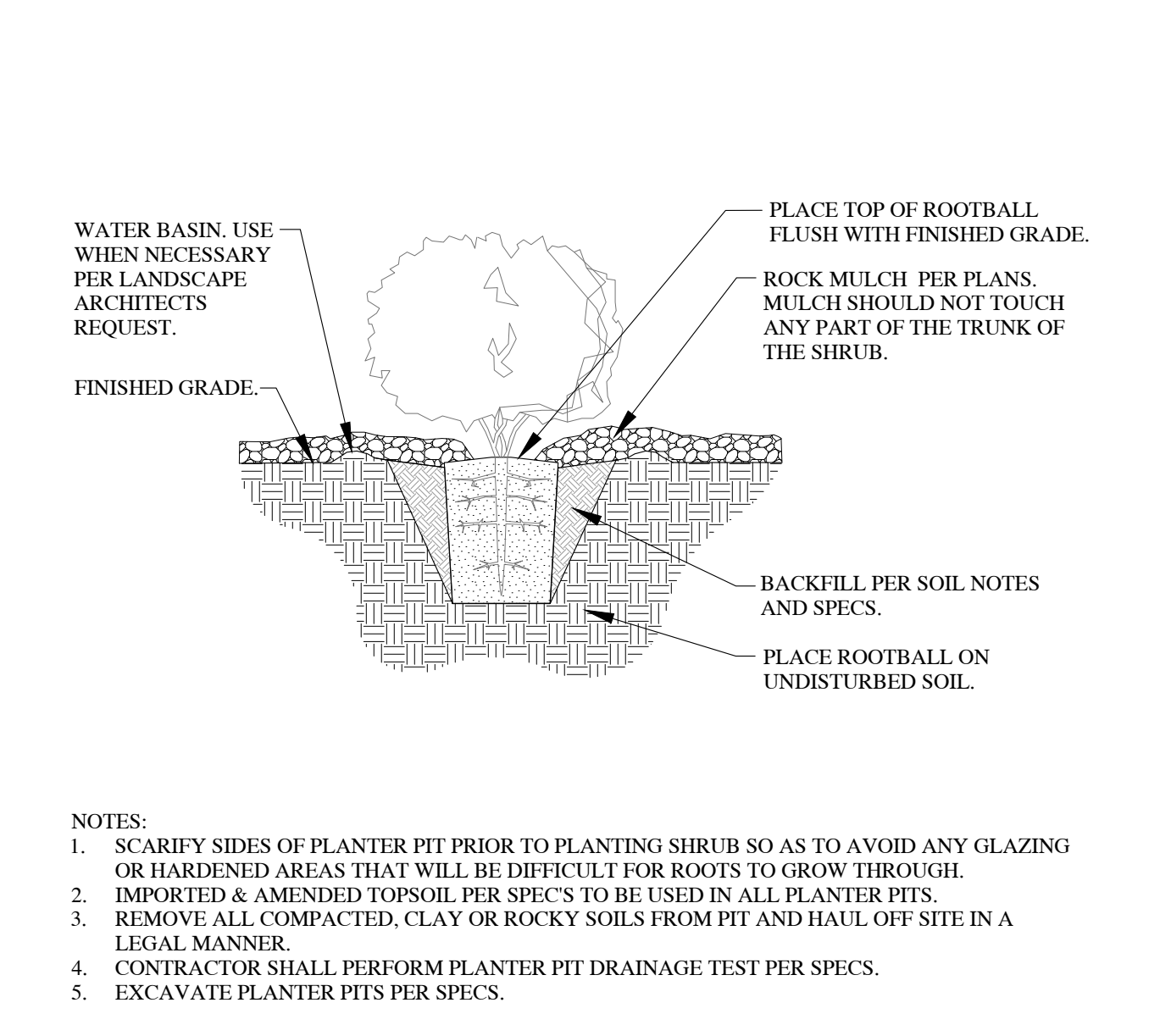
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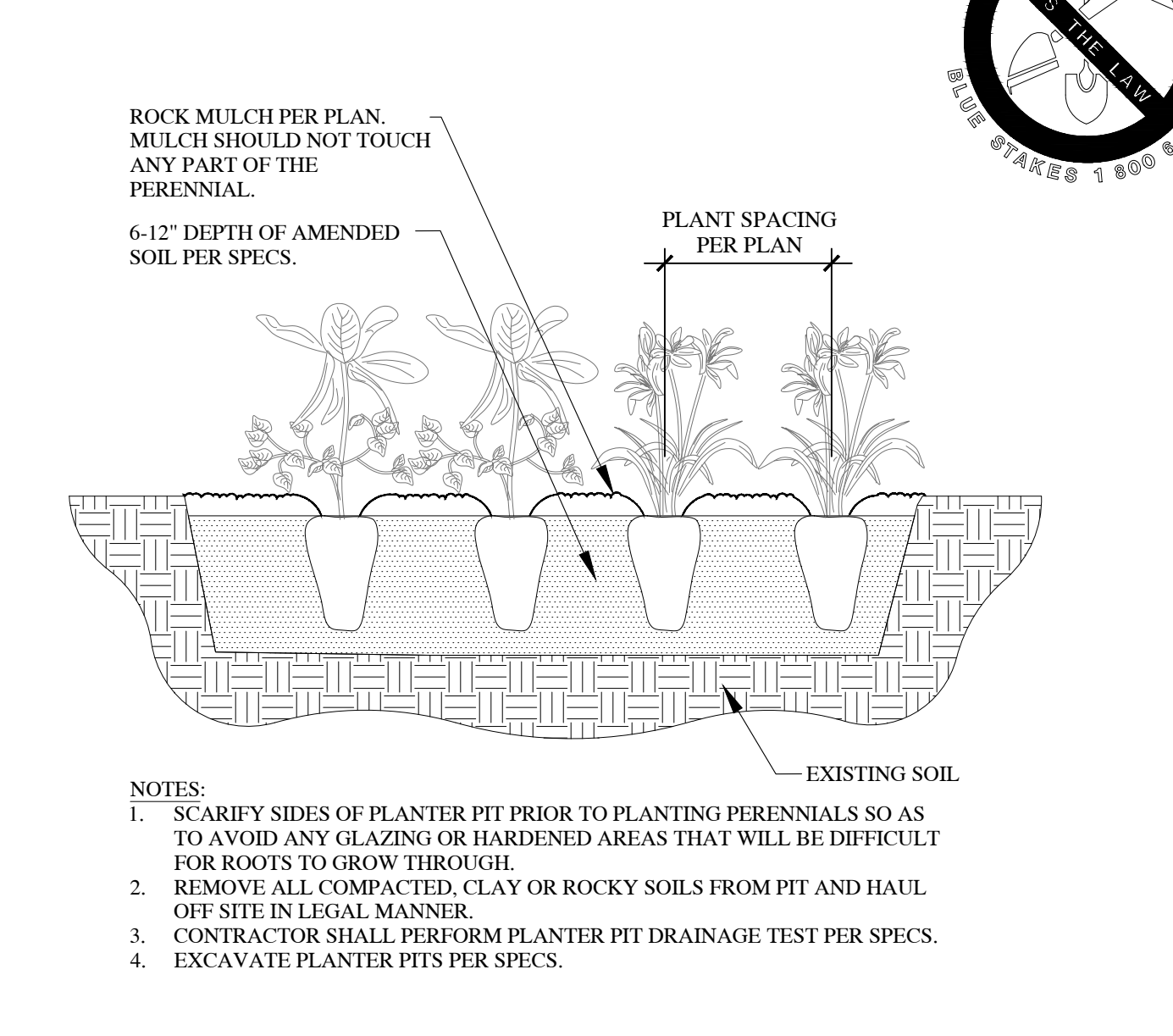
**1 TREE STAKING** SCALE: NTS



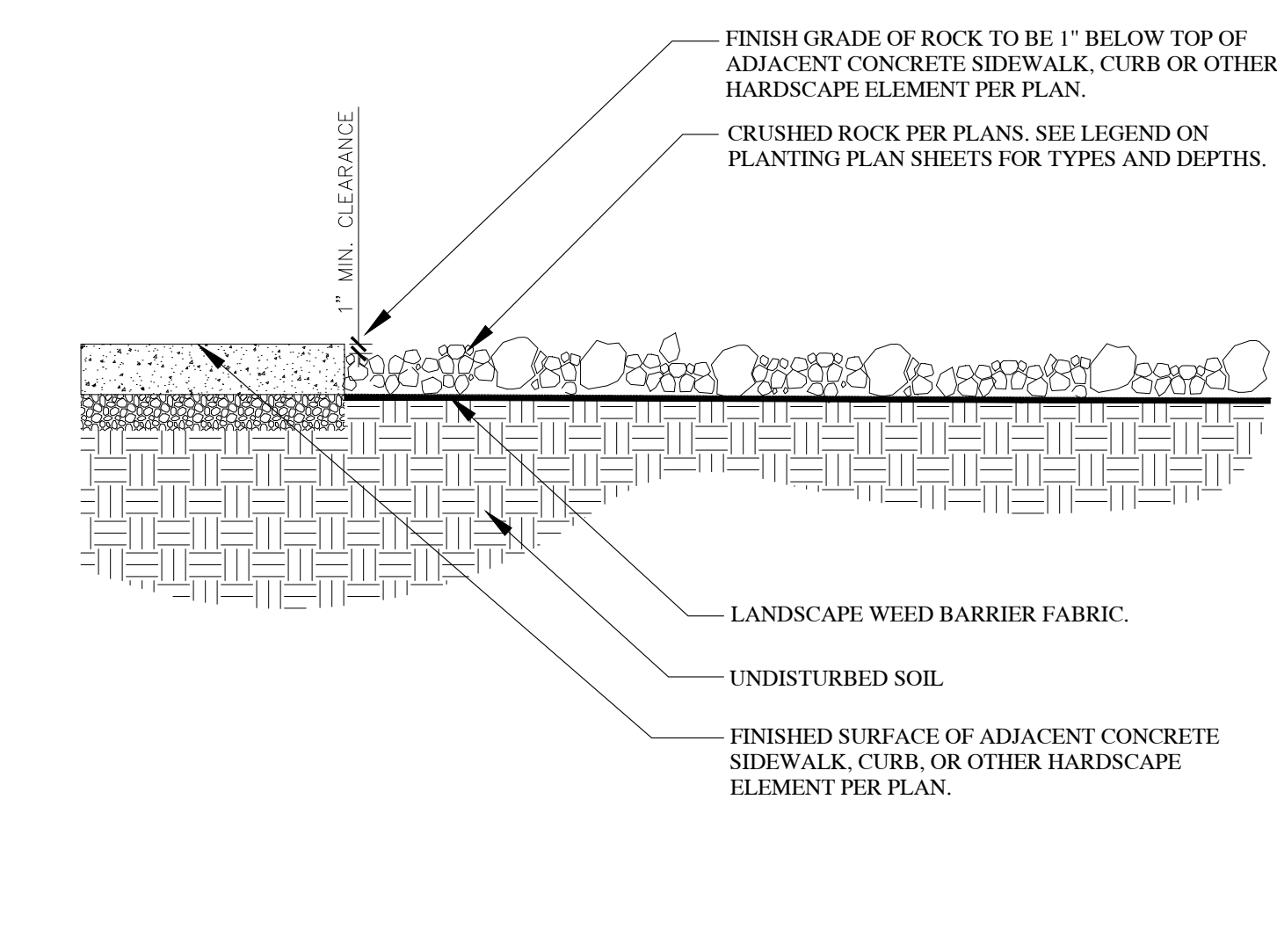
**2 DECIDUOUS TREE PLANTING** SCALE: NTS



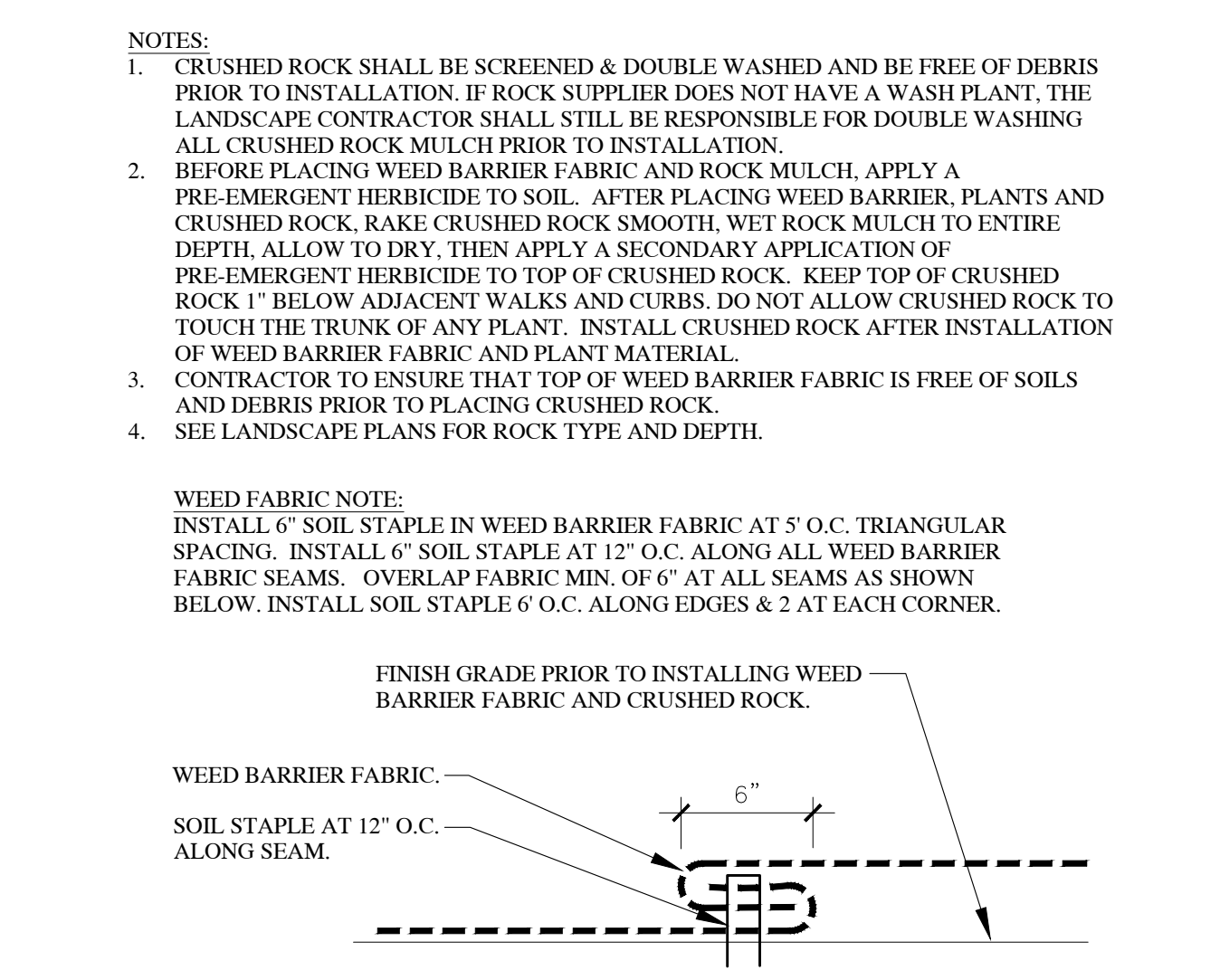
**3 SHRUB & ORNAMENTAL GRASS PLANTING** SCALE: NTS



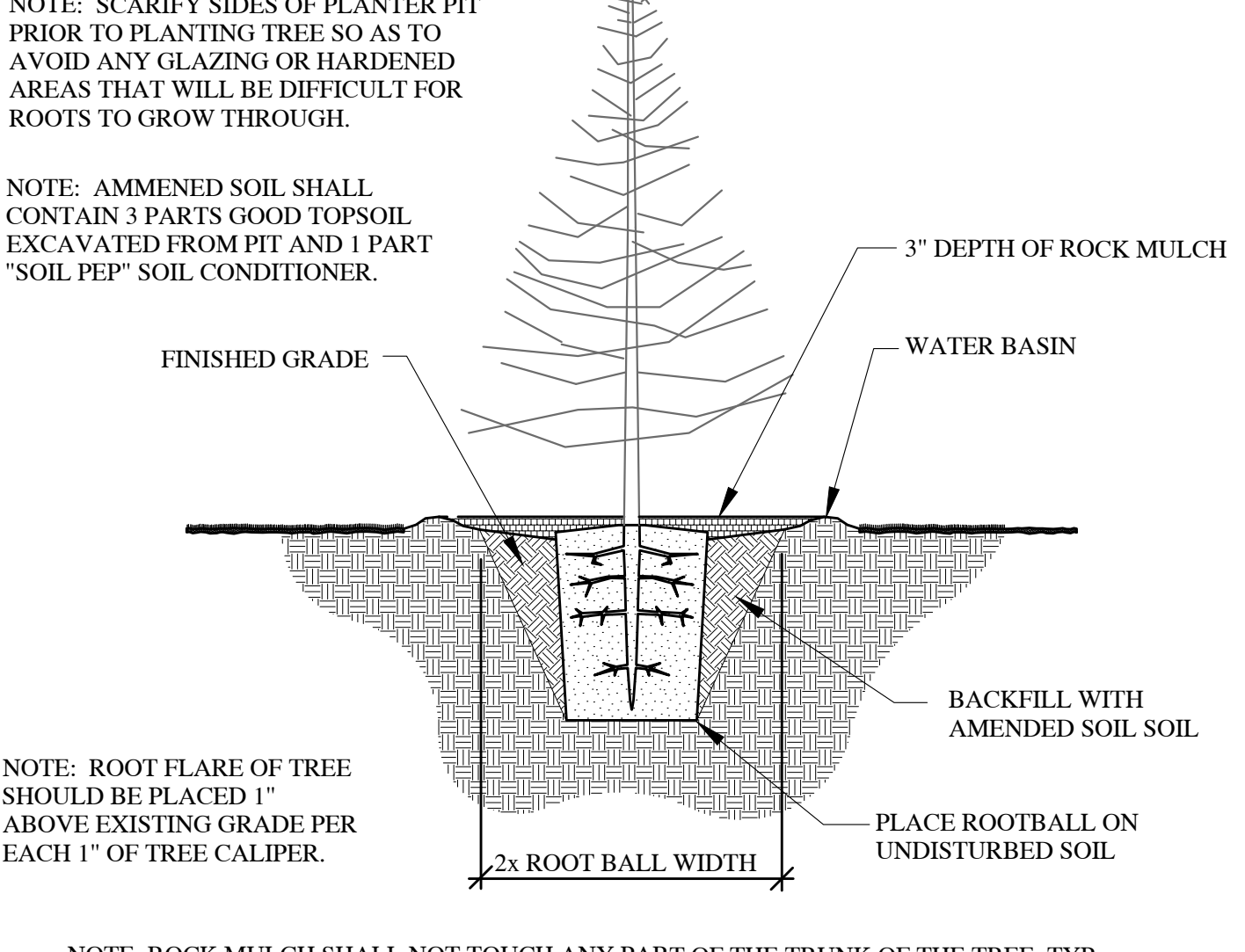
**4 PERENNIAL PLANTING** SCALE: NTS



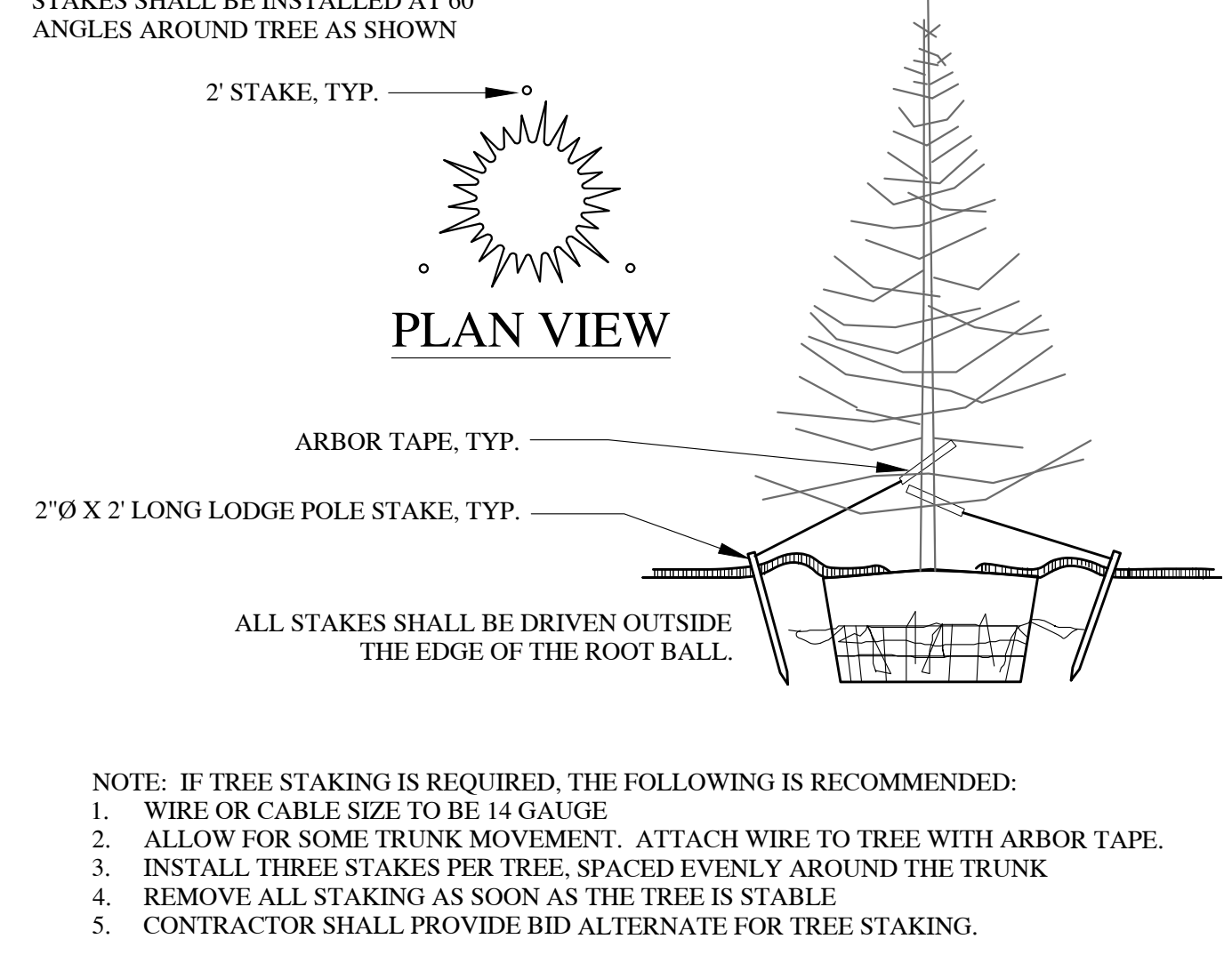
**5 CRUSHED ROCK AND WEED BARRIER FABRIC** SCALE: NTS



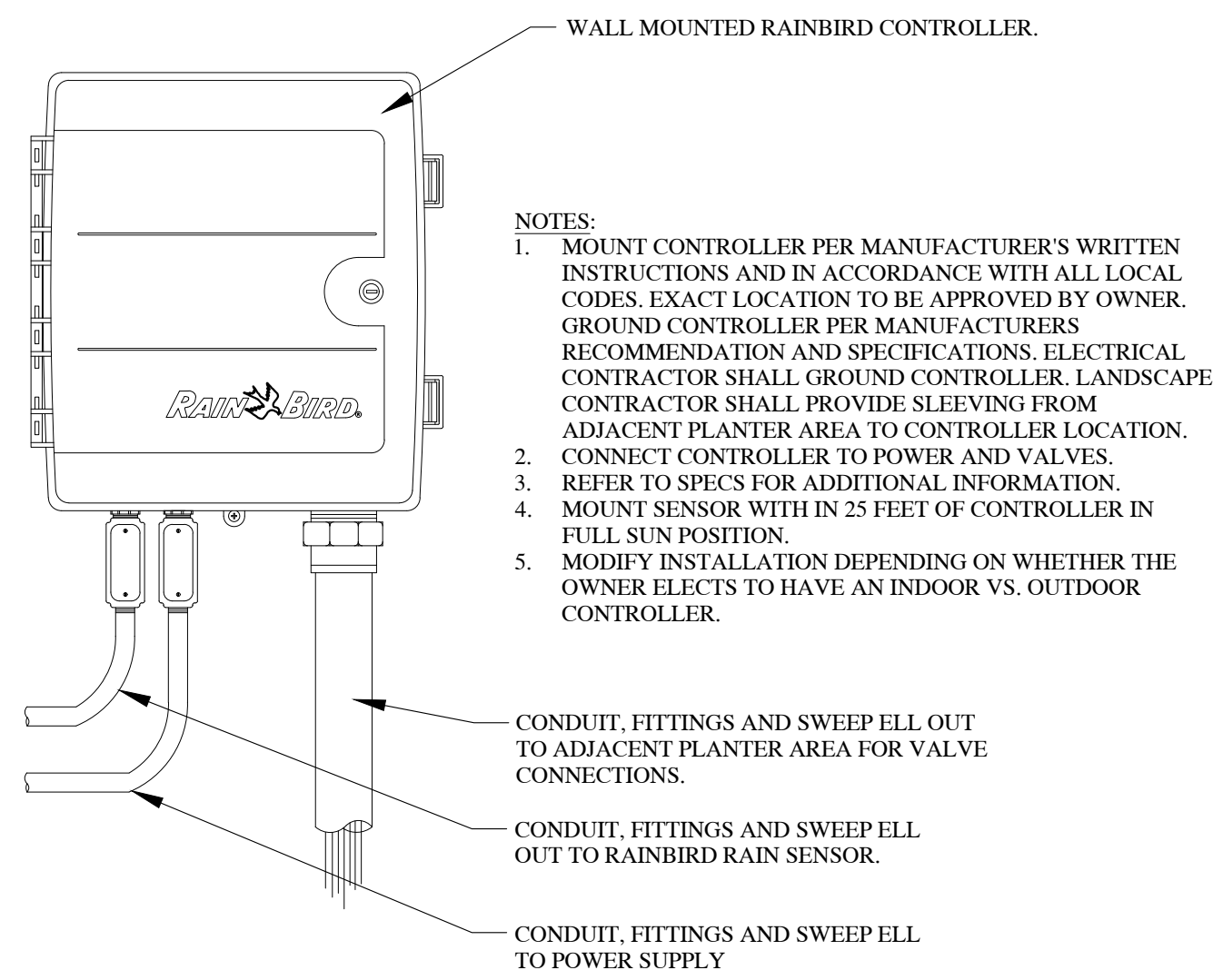
**6 EVERGREEN PLANTING DETAIL** SCALE: NTS



**7 EVERGREEN TREE STAKING DETAIL** SCALE: NTS

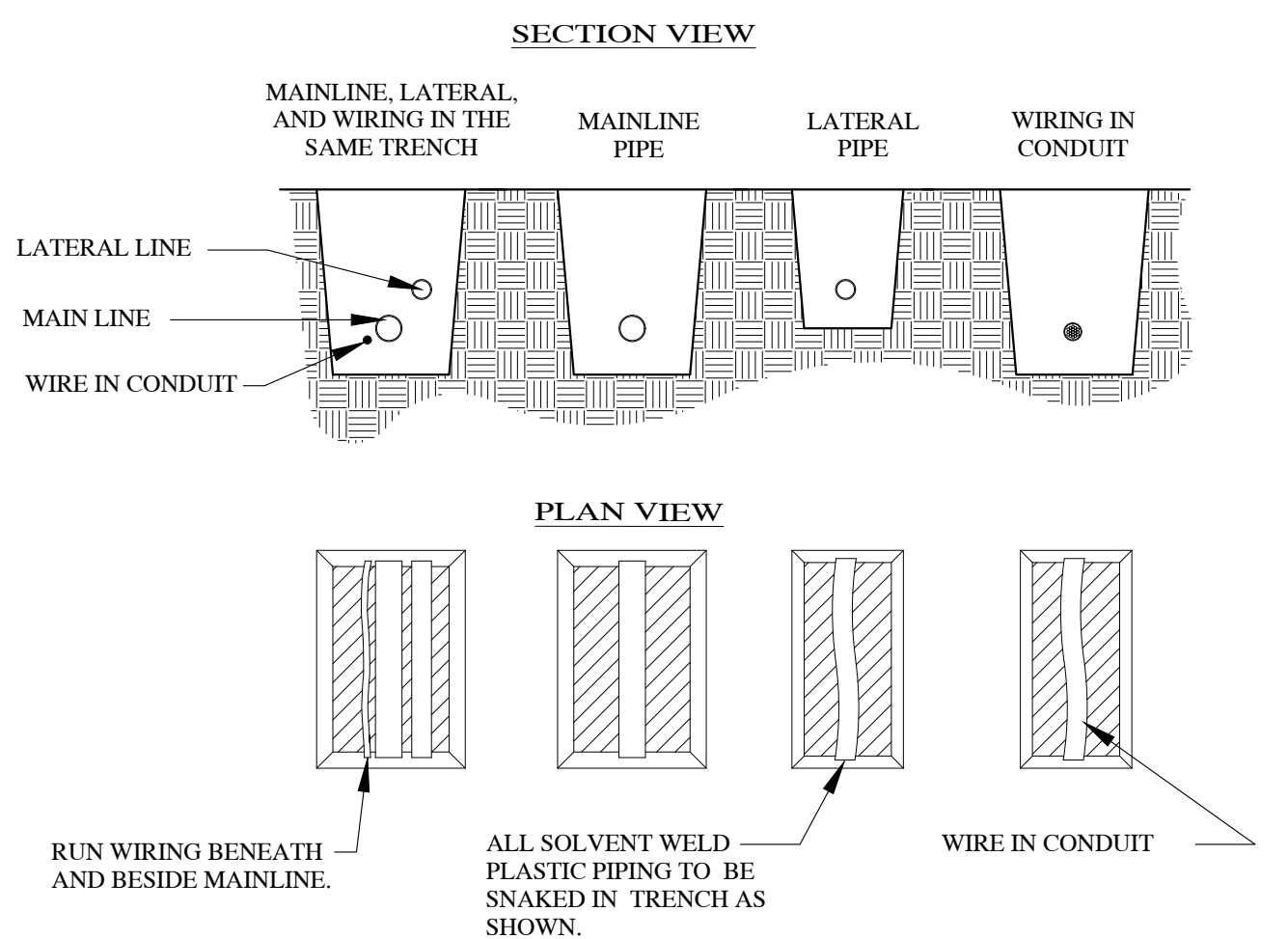


**8 EVERGREEN TREE STAKING DETAIL (PLAN VIEW)** SCALE: NTS



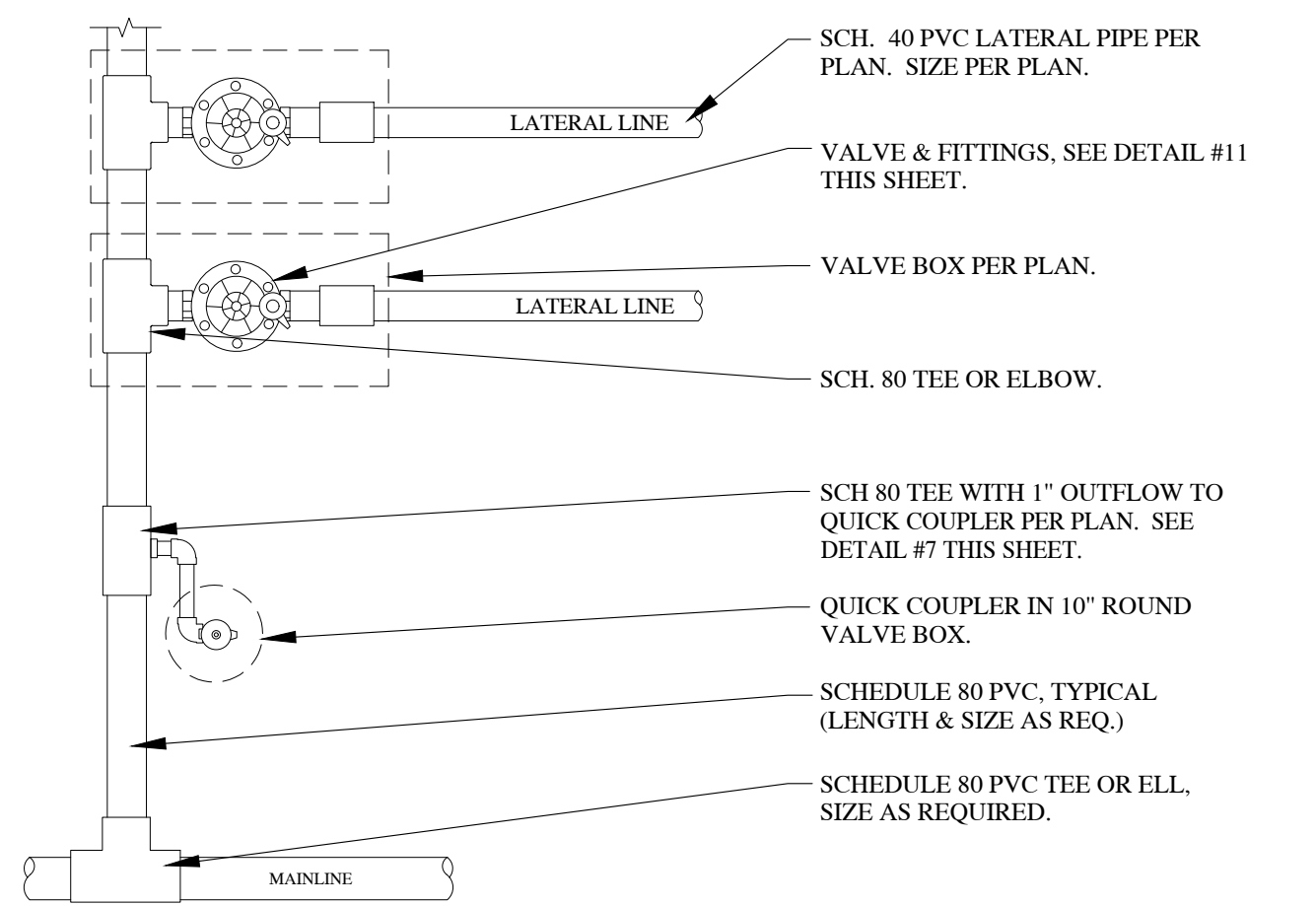
- NOTES:
1. MOUNT CONTROLLER PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND IN ACCORDANCE WITH ALL LOCAL CODES. EXACT LOCATION TO BE APPROVED BY OWNER. GROUND CONTROLLER PER MANUFACTURER'S RECOMMENDATION AND SPECIFICATIONS. ELECTRICAL CONTRACTOR SHALL GROUND CONTROLLER. LANDSCAPE CONTRACTOR SHALL PROVIDE SLEEVING FROM ADJACENT PLANTER AREA TO CONTROLLER LOCATION.
  2. CONNECT CONTROLLER TO POWER AND VALVES.
  3. REFER TO SPECS FOR ADDITIONAL INFORMATION.
  4. MOUNT SENSOR WITH IN 25 FEET OF CONTROLLER IN FULL SUN POSITION.
  5. MODIFY INSTALLATION DEPENDING ON WHETHER THE OWNER ELECTS TO HAVE AN INDOOR VS. OUTDOOR CONTROLLER.

1 CONTROLLER WITH SENSOR SCALE: NTS



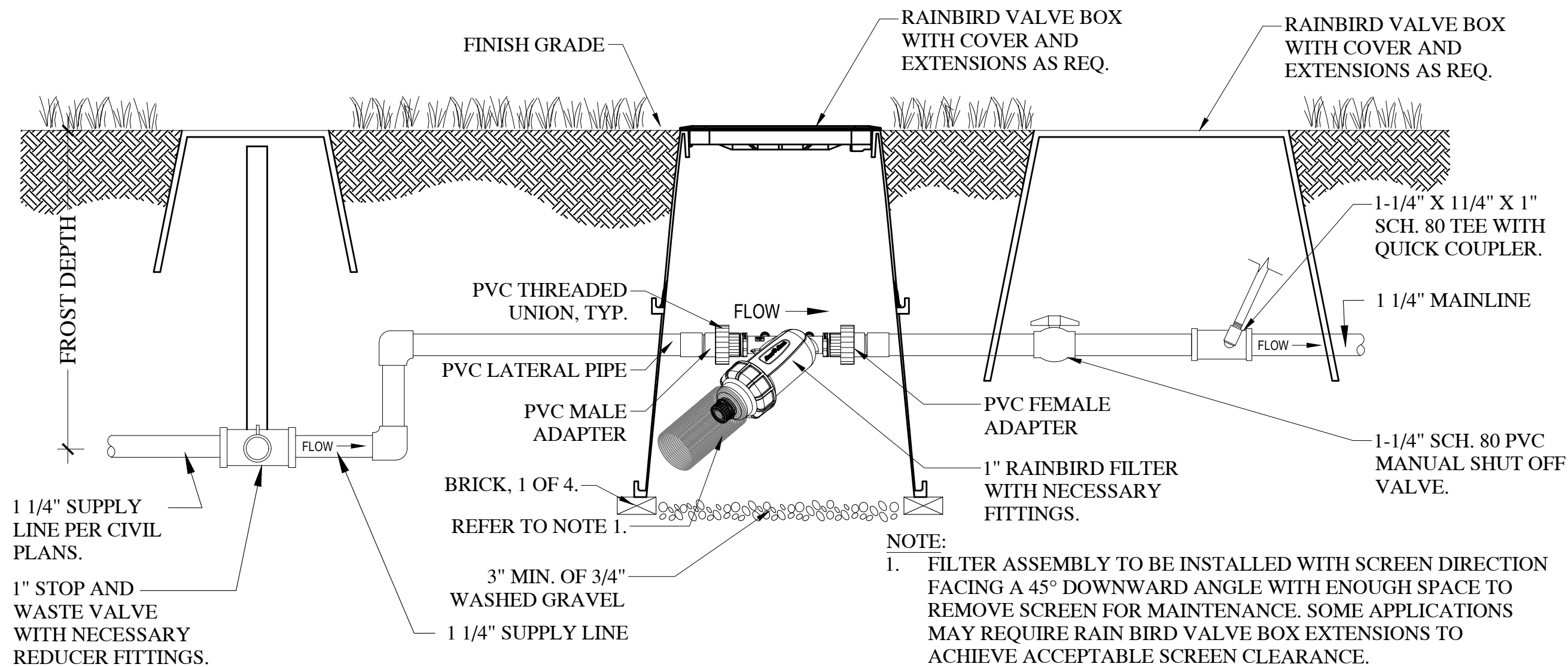
- NOTES:
1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH CLASS 200 OR SCH. 40 OR SCH. 80 PER SPECS. TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
  2. FOR PIPE AND WIRE BURIAL DEPTHS, SEE DETAILS, NOTES AND SPECS.
  3. NO LINE VOLTAGE WIRING SHALL BE ALLOWED IN IRRIGATION TRENCHES.

4 PIPE, WIRE, AND TRENCH SCALE: NTS



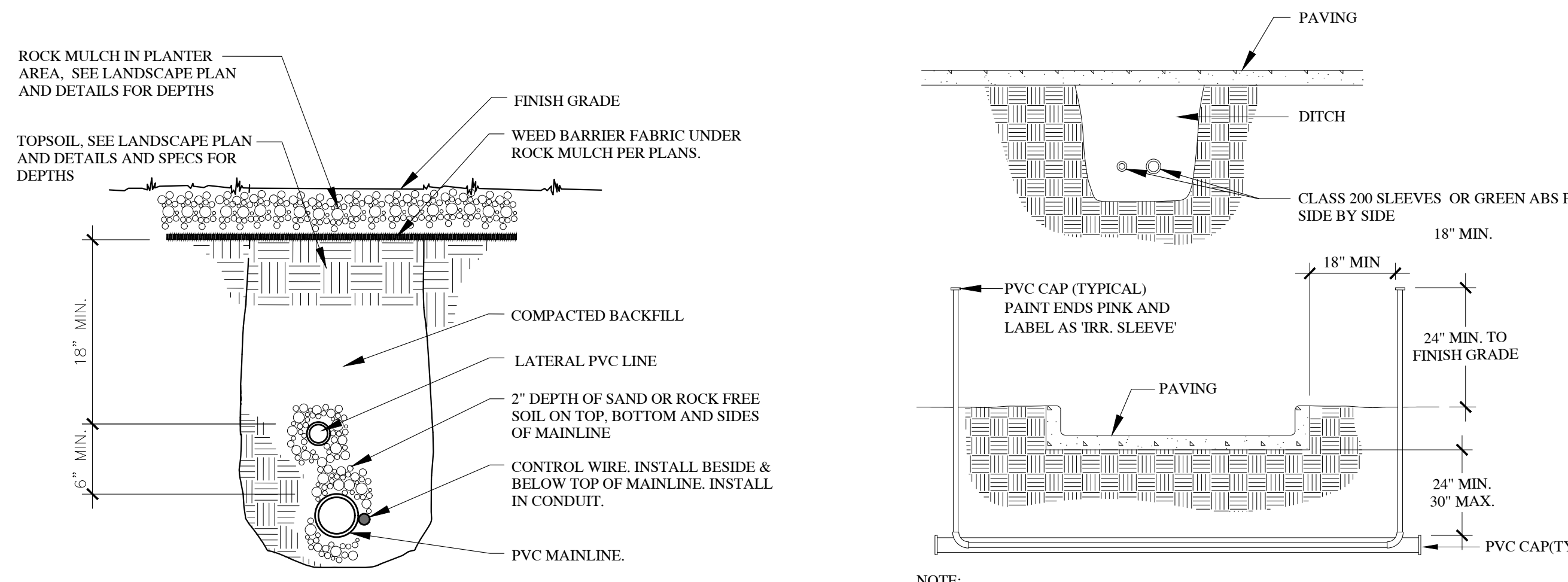
- NOTES:
1. ALL VALVE MANIFOLD PIPING AND FITTINGS TO BE SCH. 80 FITTINGS.
  2. MODIFY MANIFOLD AS NECESSARY DEPENDING ON HOW MANY VALVES ARE IN A CLUSTER.
  3. MODIFY AS REQUIRED DEPENDING ON WHETHER THE VALVES ARE PARALLEL OR PERPENDICULAR TO MAINLINE.

8 VALVE MANIFOLD SCALE: NTS



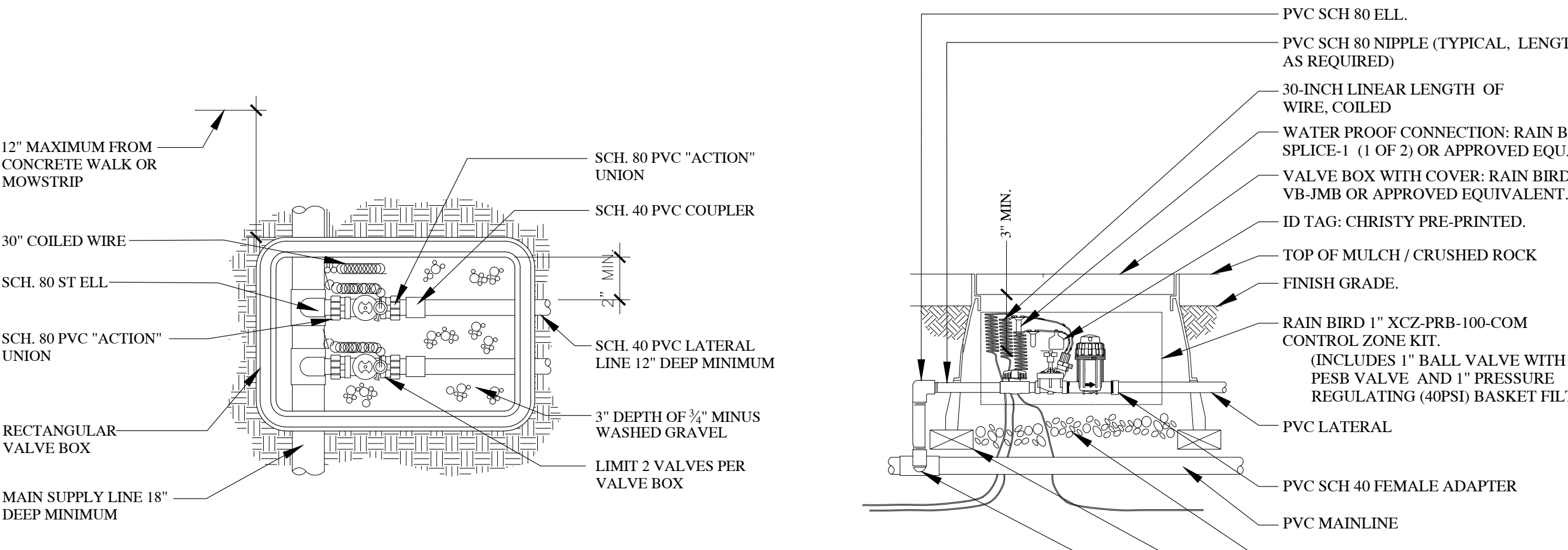
- NOTE:
1. FILTER ASSEMBLY TO BE INSTALLED WITH SCREEN DIRECTION FACING A 45° DOWNWARD ANGLE WITH ENOUGH SPACE TO REMOVE SCREEN FOR MAINTENANCE. SOME APPLICATIONS MAY REQUIRE RAIN BIRD VALVE BOX EXTENSIONS TO ACHIEVE ACCEPTABLE SCREEN CLEARANCE.
  2. BRICKS ARE NOT REQUIRED UNDER VALVE BOXES IF RAINBIRD VALVE BOXES ARE USED.
  3. INSTALL MISC. FITTINGS AS REQ. (NOT SHOWN).

2 1" SCREEN FILTER IN BOX SCALE: NTS



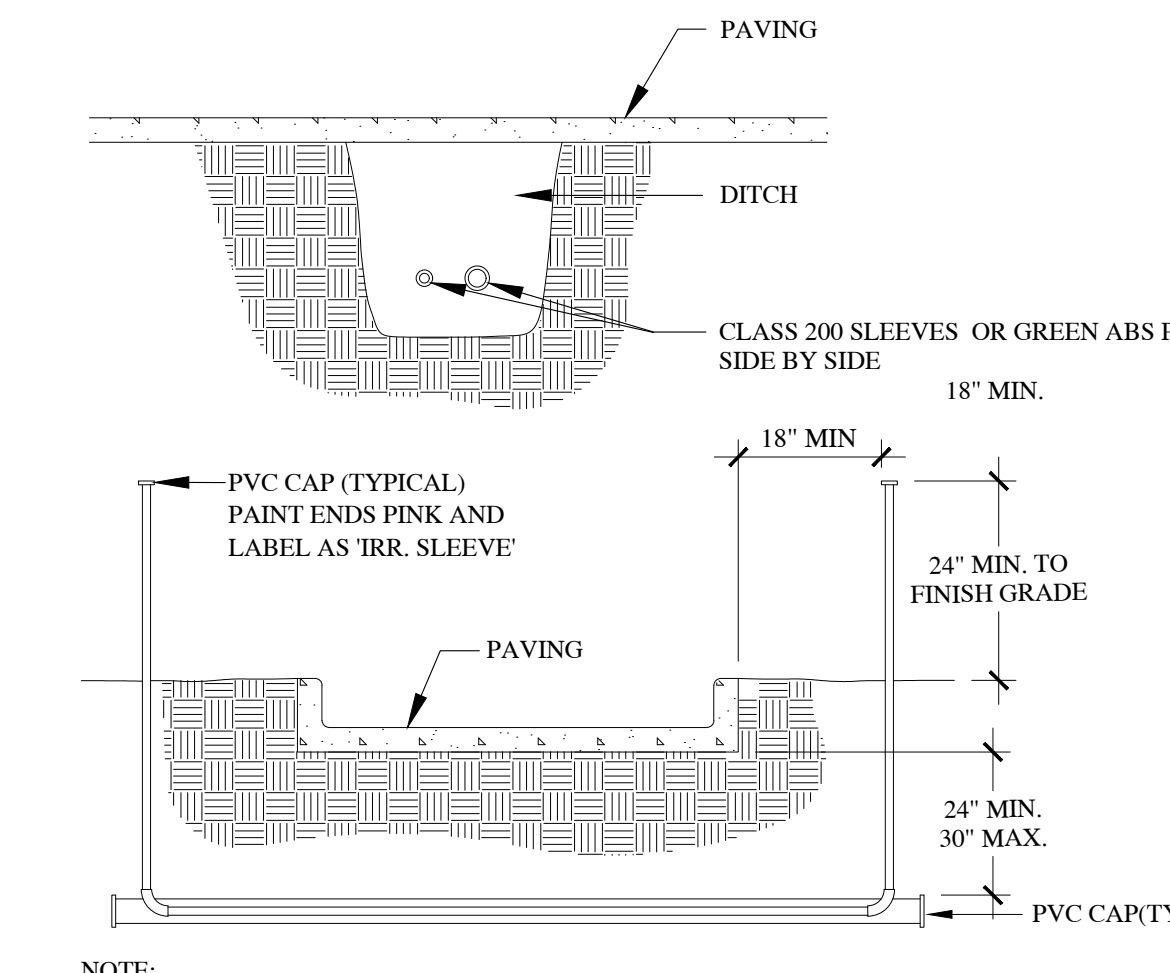
- NOTES:
1. INSTALL CONTROL WIRE BUNDLE IN CONDUIT.
  2. MAINLINE DEPTH SHALL BE 24" DEEP EXCEPT UNDER ASPHALT & CONCRETE PAVING AND AT P.O.C. SHALL BE MIN OF 24" & MAX OF 30". INSTALL ADDITIONAL FITTINGS & RESTRAINTS AS REQUIRED.
  3. MAINLINE AND LATERAL LINES SHALL BE KEPT MIN. 12" FROM ALL SIDEWALKS AND CURBS.

5 TRENCH SECTION SCALE: NTS



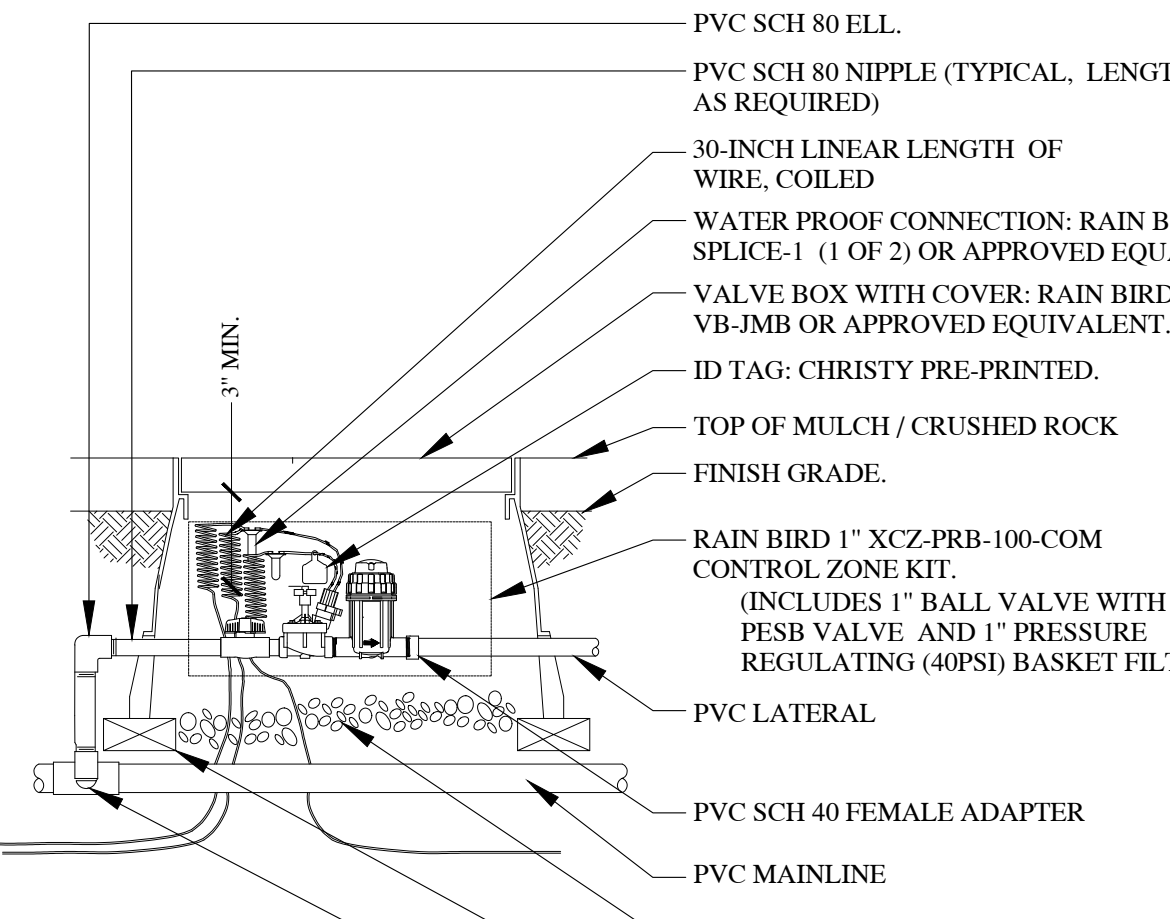
- NOTE:
1. ADD PRE-PRINTED CHRISTY LD. TAGS TO ALL NEW CONTROL VALVES AND CONTROL ZONE KITS. COORDINATE AND LABEL ALL CONTROL WIRE AT CONTROLLER WITH EACH VALVE IN THE FIELD, TYP.

9 VALVE ASSEMBLY SCALE: NTS

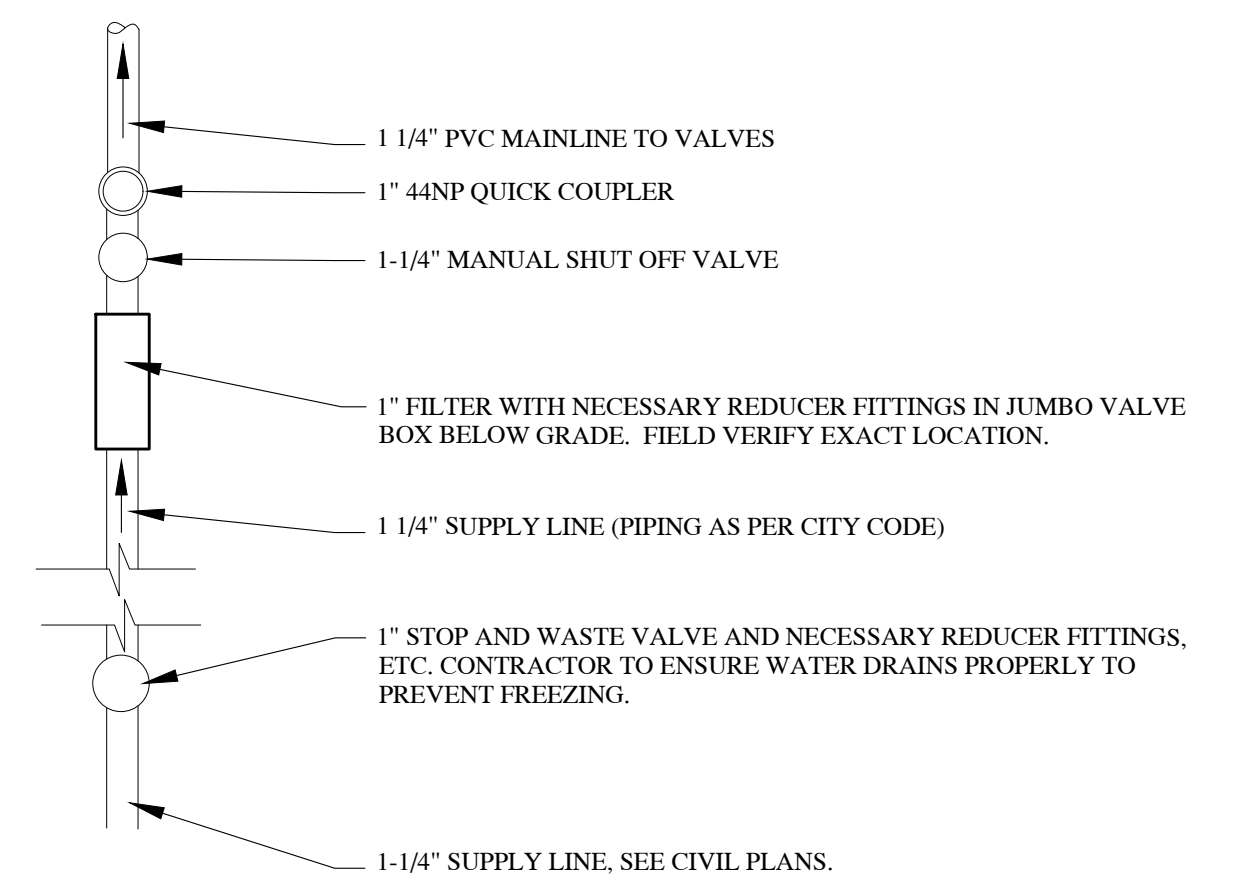


- NOTE:
1. WHERE THERE IS MORE THAN ONE SLEEVE, EXTEND THE SMALLER SLEEVE TO 24-INCHES MINIMUM ABOVE FINISH GRADE.
  2. ALL SLEEVES INSTALLED SHALL BE DUCT TAPED TO PREVENT DIRT OR OTHER DEBRIS ENTERING PIPE. ALL SLEEVES SHALL BE IDENTIFIED BY WOOD OR PVC STAKES AND BE SPRAY PAINTED WITH MARKING PAINT. REMOVE STAKES ONCE IRRIGATION SYSTEM IS COMPLETE.

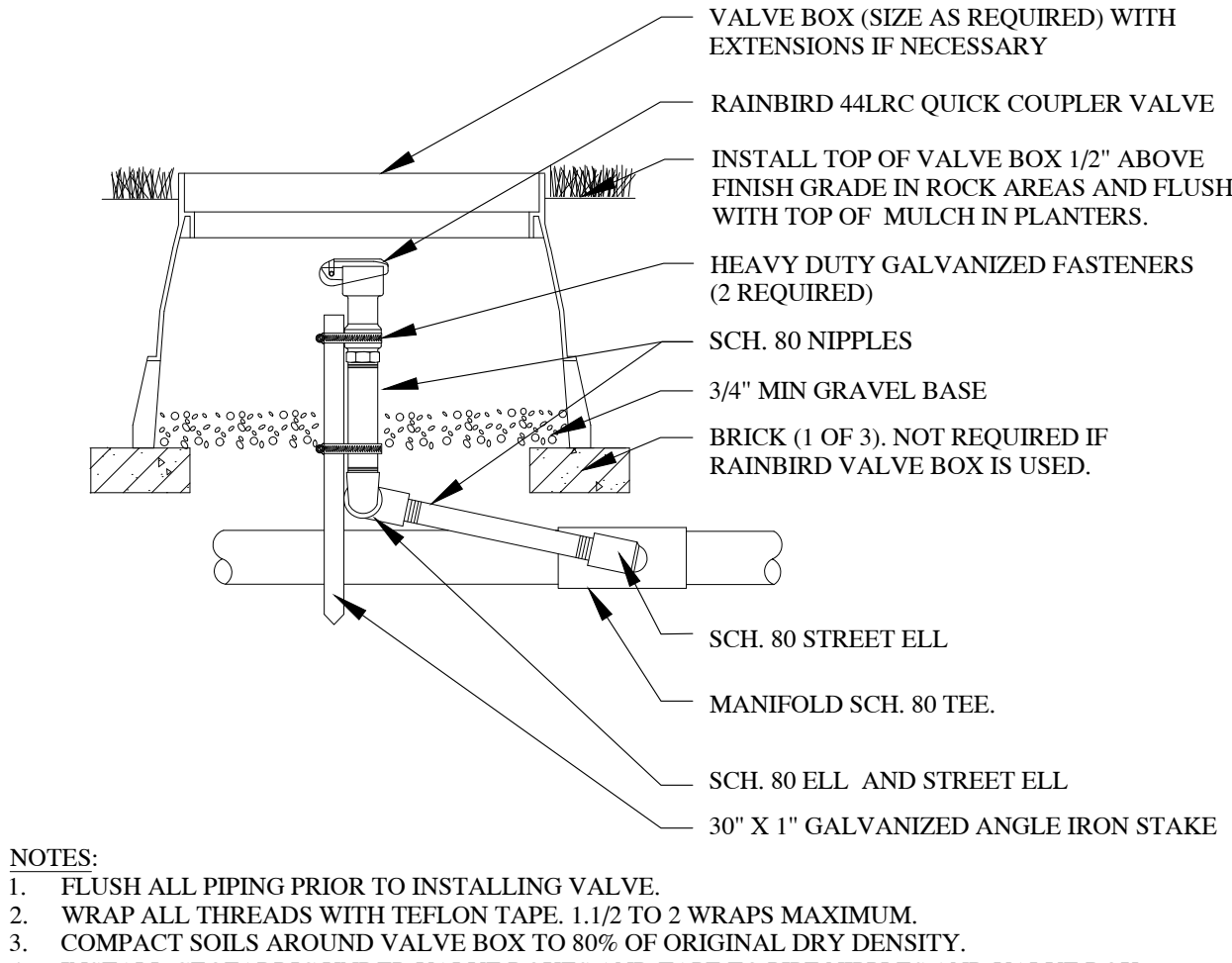
6 SLEEVING SCALE: NTS



10 1" DRIP CONTROL ZONE KIT SCALE: NTS

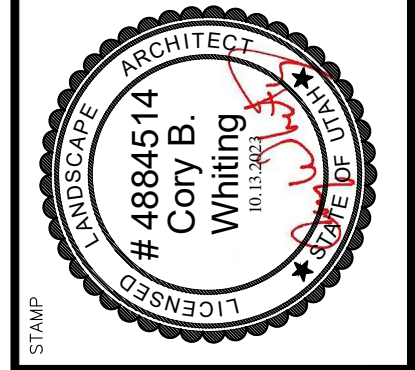


3 1-1/4" PRESSURIZED IRRIGATION P.O.C. SCALE: NTS

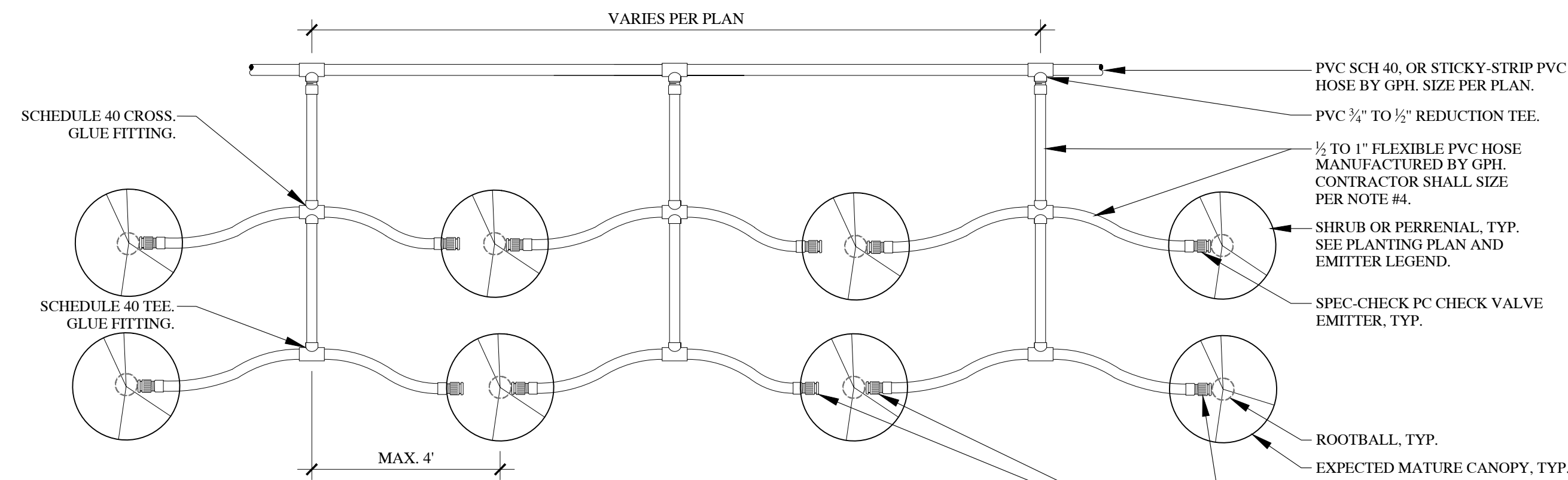


- NOTES:
1. FLUSH ALL PIPING PRIOR TO INSTALLING VALVE.
  2. WRAP ALL THREADED WITH TEFLON TAPE 1 1/2 TO 2 WRAPS MAXIMUM.
  3. COMPACT SOILS AROUND VALVE BOX TO 90% OF ORIGINAL DRY DENSITY.
  4. INSTALL GEO-FABRIC UNDER VALVE BOXES AND TAPE TO PIPE, NIPPLES AND VALVE BOX.
  5. BOX COLOR - GREEN IN TURF AND TAN IN PLANTER AREAS.
  6. IRRIGATION SYSTEM TO BE BLOWN OUT WITH AIR COMPRESSOR THROUGH THE RPZ AND QUICK COUPLERS BEFORE FREEZING TEMPERATURES OCCUR, TYP.
  7. SCH 80 PVC TEE OR ELL'S CAN BE USED ON ALL QUICK COUPLERS EXCEPT AT POINT OF CONNECTION (IF QUICK COUPLERS) ARE INSTALLED AT THE POINT OF CONNECTION. ALL QUICK COUPLER FITTINGS AND NIPPLES AT P.O.C. QUICK COUPLER(S) TO BE GALVANIZED.

7 QUICK COUPLER VALVE SCALE: NTS

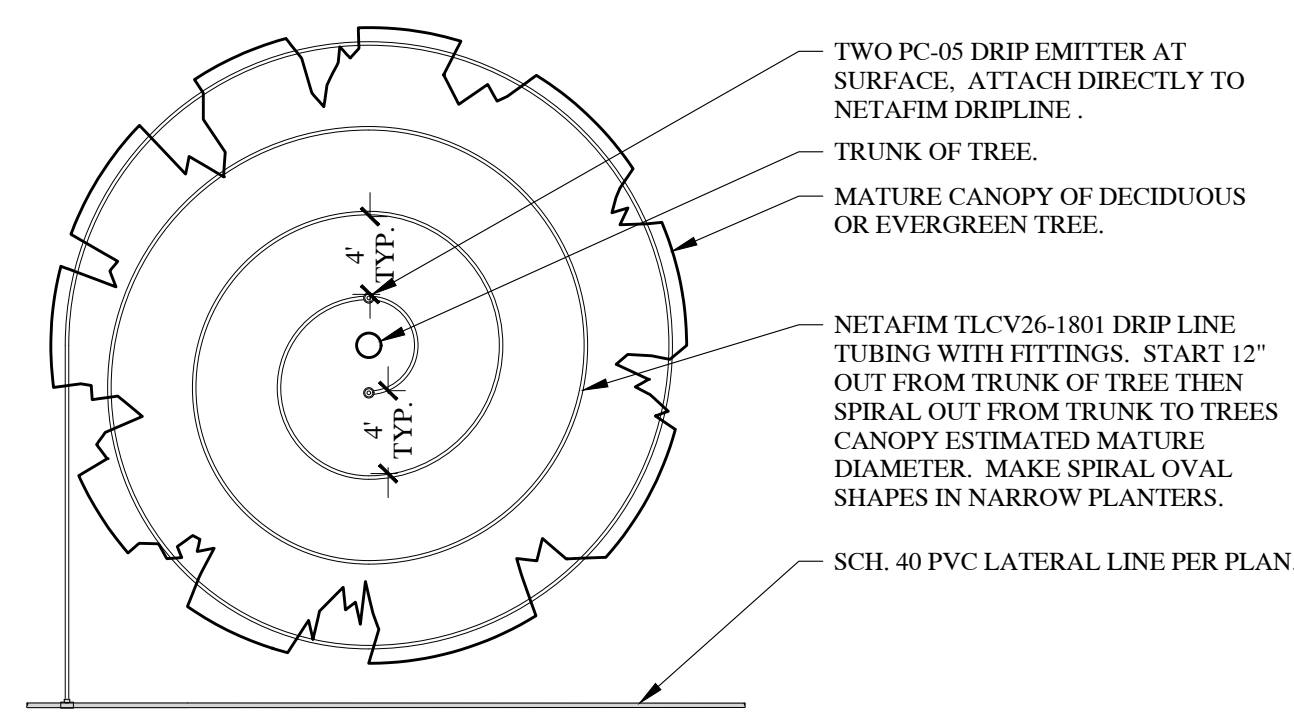


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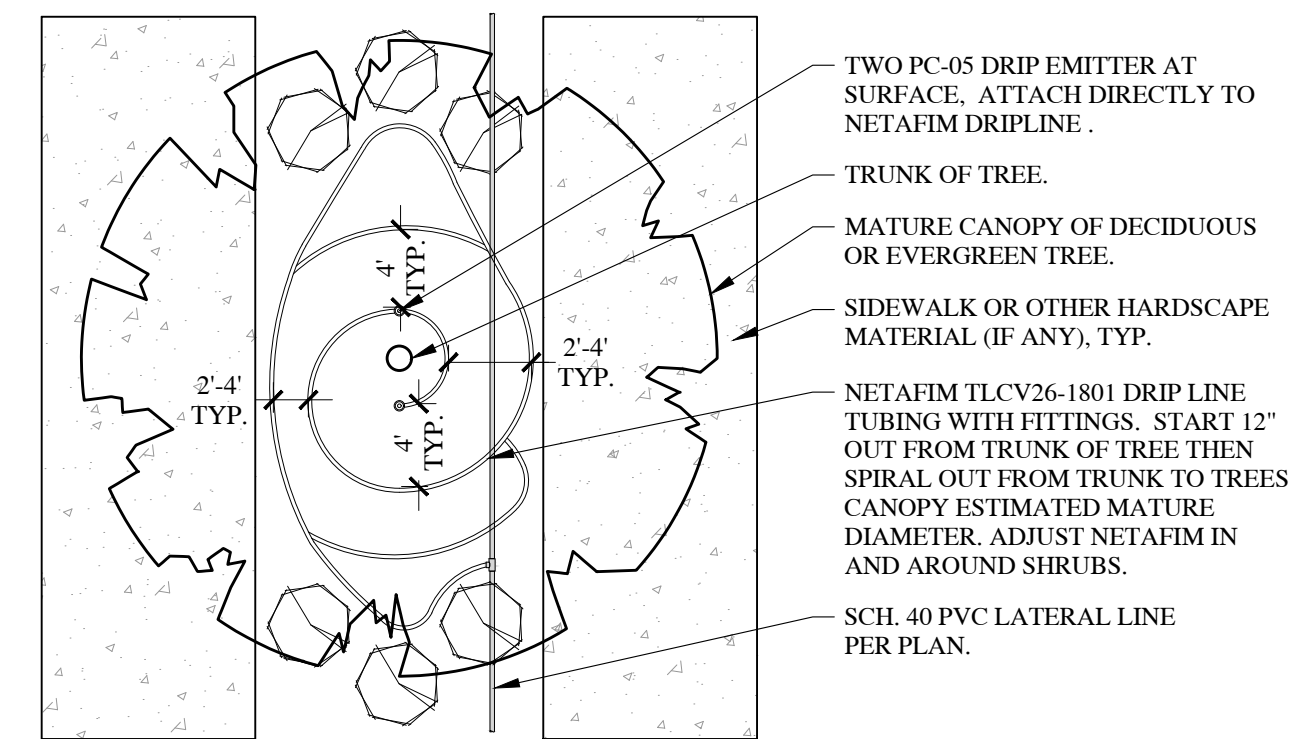
- NOTES:
1. EMITTER SPACING SHALL BE BASED ON PLANT SPACING. INSTALL ALL IRRIGATION USING THE COMPONENTS DESCRIBED ABOVE.
  2. IRRIGATION EQUIPMENT SHALL BE COMPLETELY INSTALLED PRIOR TO PLANT LAYOUTS.
  3. ADJUST IRRIGATION SPACING TO ACCOMMODATE FINAL PLANT LAYOUT.
  4. 1/2" PVC FLEX HOSE SHALL NOT EXCEED 4GPM, 3/4" PVC FLEX HOSE SHALL NOT EXCEED 8GPM AND 1" PVC FLEX HOSE SHALL NOT EXCEED 13GPM.
  5. AT OWNERS DISCRETION, A LESS EXPENSIVE DRIP SYSTEM MAY BE INSTALLED. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, SUBMITTAL CUT SHEETS AND POTENTIAL COST SAVINGS TO OWNER. HOWEVER, THE OWNER AND LANDSCAPE ARCHITECT MUST APPROVE ALL CHANGES IN MATERIALS AND CONSTRUCTION PRACTICES IF DIFFERENT FROM THE PLAN.
  6. SMALL EVERGREEN TREES MAY NEED FEWER EMITTERS. CONSULT WITH THE LANDSCAPE ARCHITECT ON-SITE PRIOR TO INSTALLING IRRIGATION TO DETERMINE QUANTITY OF EMITTERS.
  7. SEE IRRIGATION SHEET FOR DRIP EMITTER LEGEND.
  8. USE IPS WELDON 795 GLUE AND P70 PRIMER PER GPH INC. SPECIFICATIONS.
  9. DO NOT INSTALL PIPE, FITTINGS, OR GLUE IN TEMPERATURES BELOW 40 DEGREES. SEE MANUFACTURER SPECIFICATIONS FOR MORE INFORMATION.
- FOR PLANTS REQUIRING ONLY ONE EMITTER, INSTALL THE EMITTER AT THE EDGE OF THE ROOTBALL.
- FOR PLANTS REQUIRING TWO EMITTERS, INSTALL ONE EMITTER AT THE EDGE OF THE ROOTBALL AND THE OTHER ON THE OPPOSITE SIDE OF THE ROOTBALL HALF-WAY BETWEEN THE PLANT'S TRUNK AND ITS EXPECTED MATURE CANOPY.
- FOR TREES REQUIRING TWO EMITTERS, INSTALL BOTH AT THE EDGE OF THE ROOTBALL ON OPPOSITE SIDES OF THE TREE.

11 GPH DRIP EMITTER PLAN VIEW SCALE: NTS



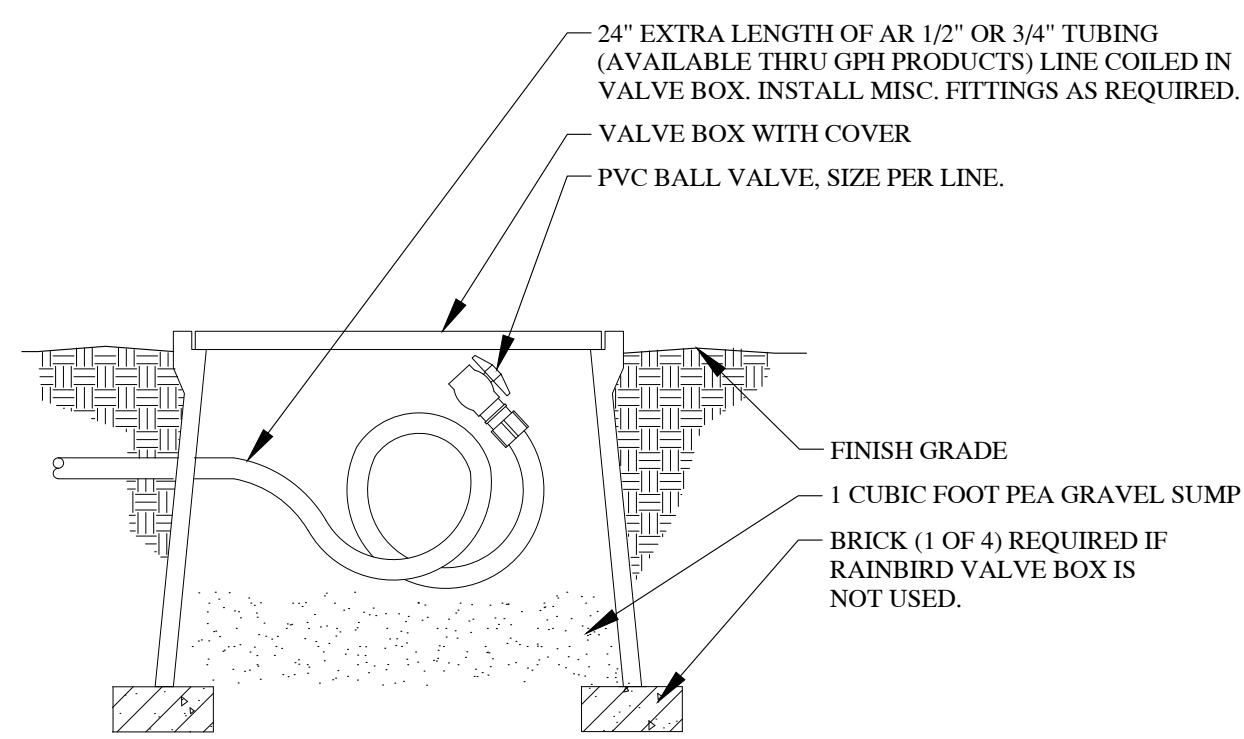
- NOTES:
1. LAYOUT SHOWN IS TYPICAL. ON SITE MODIFICATIONS WILL BE REQUIRED DUE TO VARYING SIZE OF PLANTER ISLANDS. CONSULT WITH LANDSCAPE ARCHITECT ON-SITE PRIOR TO INSTALLATION TO DETERMINE HOW MUCH DRIP NEEDS TO BE INSTALLED AND WHAT CONFIGURATION IS APPROPRIATE.
  2. INSTALL NETAFIM DRIP TUBING UNDER WEED BARRIER FABRIC. USE THIS DETAIL FOR ALL TREES PLANTED IN CRUSHED ROCK AREAS. CONTRACTOR SHALL BE CAREFUL NOT TO DAMAGE OR PINCH TUBING WHEN PLACING CRUSHED ROCK.
  3. THIS DETAIL IS FOR DESIGN INTENT ONLY AND IS NOT TO SCALE. CONTRACTOR MUST INSTALL DRIP LINE PER THIS DETAIL OUT TO THE DRIPLINE OF THE TREES MATURE SIZE.
  4. FOR LINEAR PLANTERS WITH TREES, INSTALL NETAFIM IN STRAIGHT LINES RATHER THAN A CIRCULAR PATTERN AROUND THE TREE.
  5. INSTALL A FLUSH VALVE (NOT SHOWN) AT THE END OF ALL DRIP LINES, PER PLAN.

14 TREE DRIP WITHOUT PLANTS UNDER FULL CANOPY 1" = 1'-0"

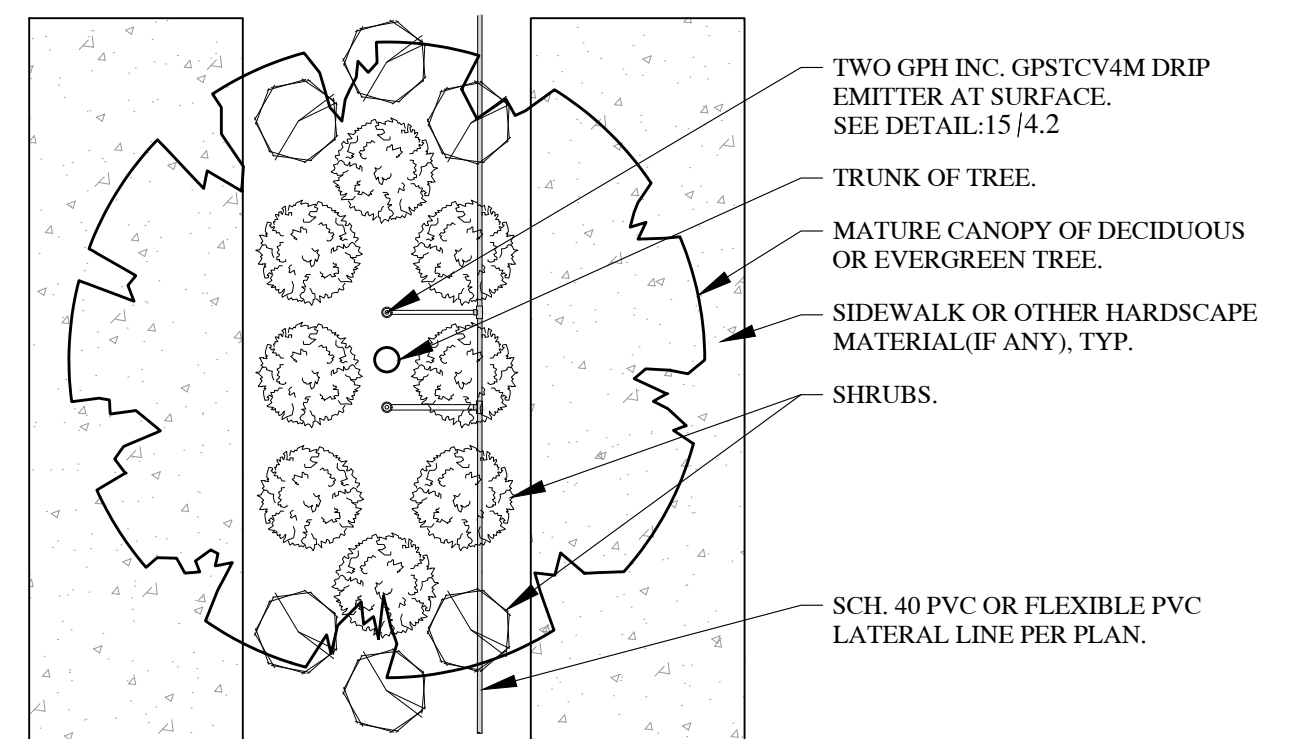


- NOTES:
1. LAYOUT SHOWN IS TYPICAL. ON SITE MODIFICATIONS WILL BE REQUIRED DUE TO VARYING SIZE OF PLANTER ISLANDS. CONSULT WITH LANDSCAPE ARCHITECT ON-SITE PRIOR TO INSTALLATION TO DETERMINE HOW MUCH DRIP NEEDS TO BE INSTALLED AND WHAT CONFIGURATION IS APPROPRIATE.
  2. INSTALL NETAFIM DRIP TUBING UNDER WEED BARRIER FABRIC. USE THIS DETAIL FOR ALL TREES PLANTED IN CRUSHED ROCK AREAS. CONTRACTOR SHALL BE CAREFUL NOT TO DAMAGE OR PINCH TUBING WHEN PLACING CRUSHED ROCK.
  3. THIS DETAIL IS FOR DESIGN INTENT ONLY AND IS NOT TO SCALE. CONTRACTOR MUST INSTALL DRIP LINE PER THIS DETAIL OUT TO THE DRIPLINE OF THE TREES MATURE SIZE.
  4. FOR LINEAR PLANTERS WITH TREES, INSTALL NETAFIM IN STRAIGHT LINES RATHER THAN A CIRCULAR PATTERN AROUND THE TREE.
  5. INSTALL A FLUSH VALVE (NOT SHOWN) AT THE END OF ALL DRIP LINES, PER PLAN.

15 TREE DRIP WITH PARTIAL PLANTING UNDER CANOPY 1" = 1'-0"

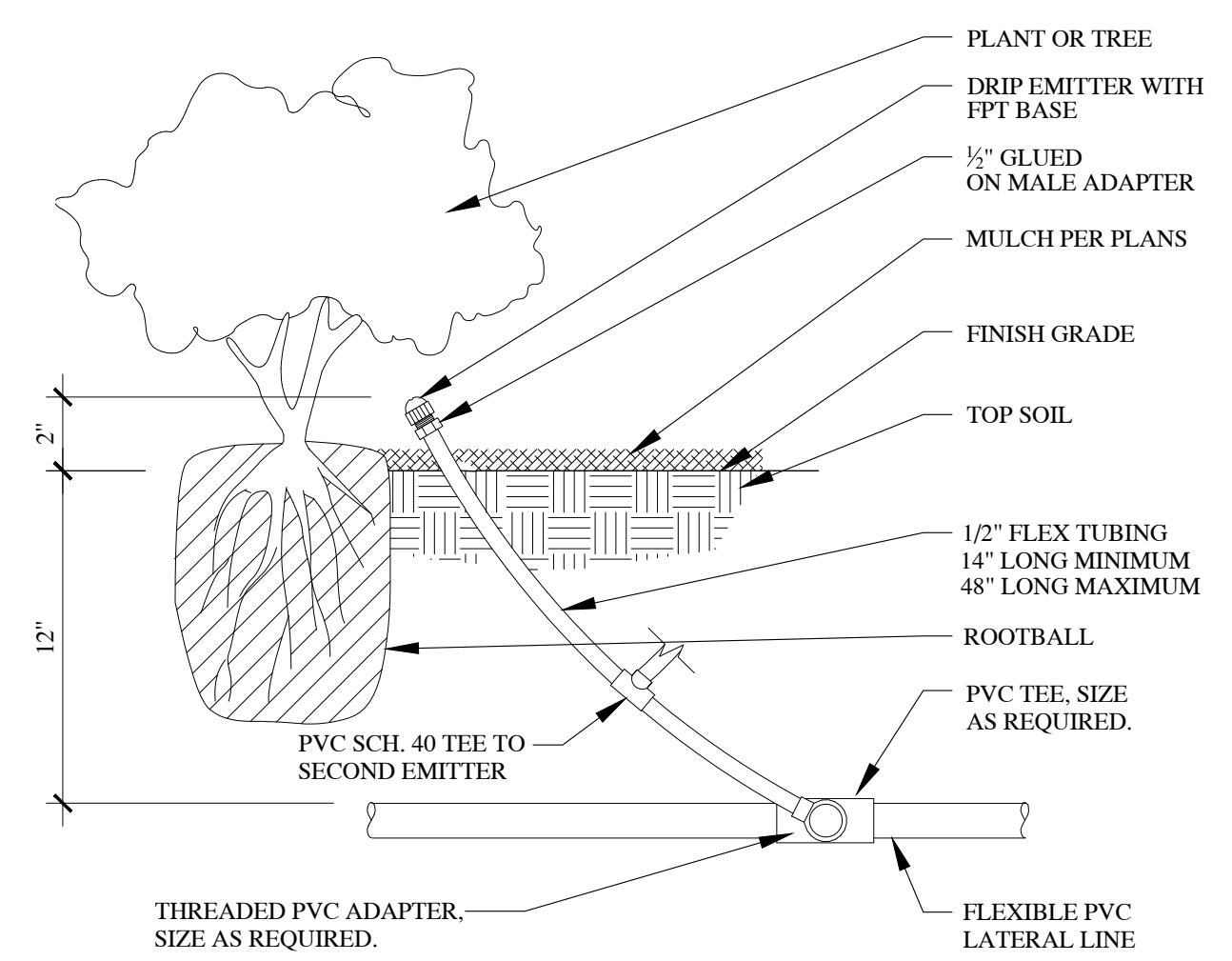


12 DRIP LINE FLUSH CAP SCALE: NTS



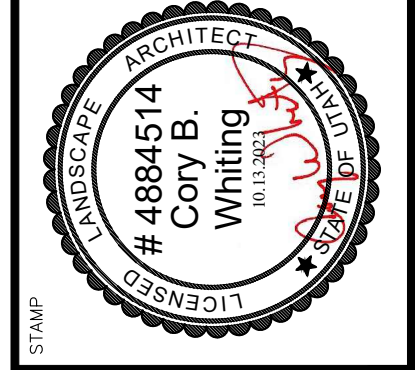
- NOTES:
1. LAYOUT SHOWN IS TYPICAL. ON SITE MODIFICATIONS WILL BE REQUIRED DUE TO VARYING SIZE OF PLANTER ISLANDS. CONSULT WITH LANDSCAPE ARCHITECT ON-SITE PRIOR TO INSTALLATION TO DETERMINE HOW MUCH DRIP NEEDS TO BE INSTALLED AND WHAT CONFIGURATION IS APPROPRIATE.
  2. INSTALL NETAFIM DRIP TUBING UNDER WEED BARRIER FABRIC. USE THIS DETAIL FOR ALL TREES PLANTED IN CRUSHED ROCK AREAS. CONTRACTOR SHALL BE CAREFUL NOT TO DAMAGE OR PINCH TUBING WHEN PLACING CRUSHED ROCK.
  3. THIS DETAIL IS FOR DESIGN INTENT ONLY AND IS NOT TO SCALE. CONTRACTOR MUST INSTALL DRIP LINE PER THIS DETAIL OUT TO THE DRIPLINE OF THE TREES MATURE SIZE.
  4. FOR LINEAR PLANTERS WITH TREES, INSTALL NETAFIM IN STRAIGHT LINES RATHER THAN A CIRCULAR PATTERN AROUND THE TREE.
  5. INSTALL A FLUSH VALVE (NOT SHOWN) AT THE END OF ALL DRIP LINES, PER PLAN.

16 TREE DRIP WITH FULL PLANTING UNDER CANOPY 1" = 1'-0"



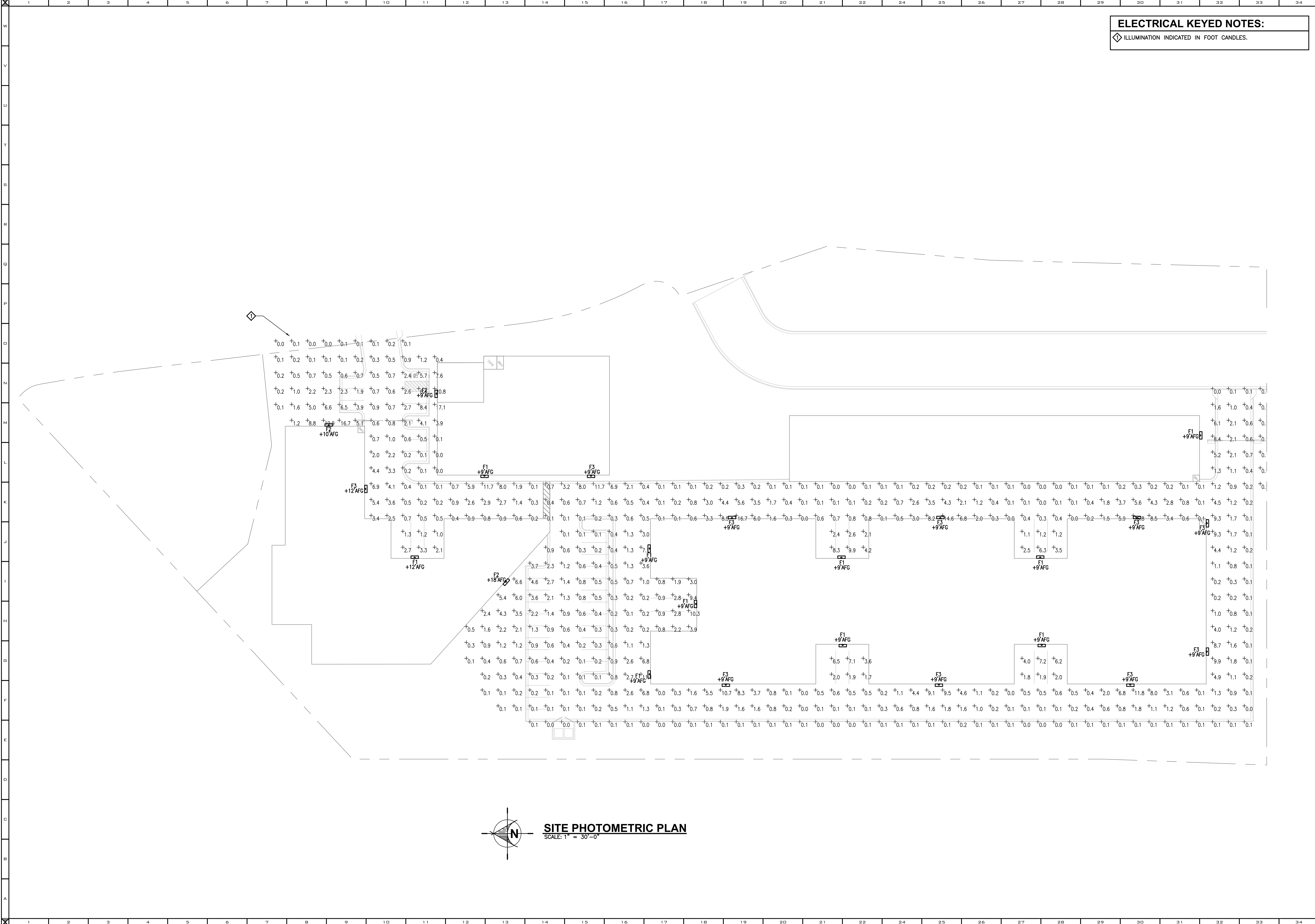
- NOTE:
1. FOR LAYOUT OF MULTIPLE SHRUBS, CONTRACTOR SHALL USE TEES AS NECESSARY.

13 DRIP EMITTER SCALE: NTS



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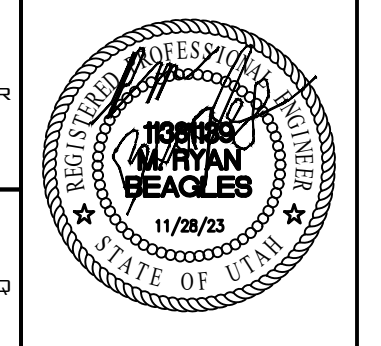




**ELECTRICAL KEYED NOTES:**

◊ ILLUMINATION INDICATED IN FOOT CANDLES.

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**SANTAQUIN STORAGE**  
 SANTAQUIN, UT

DRAWING TITLE:  
**SITE PHOTOMETRIC PLAN**

DRAWN BY: MDB  
 CHECKED BY: JH

DATE PLOTTED:  
 08/16/2023

PROJECT #:  
 J23205.00

**E1.1**

**SITE PHOTOMETRIC PLAN**  
 SCALE: 1" = 30'-0"

