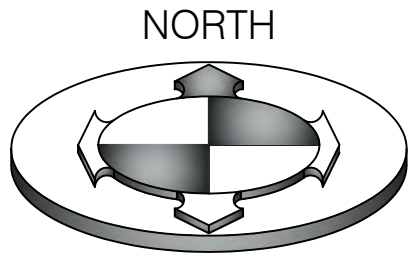
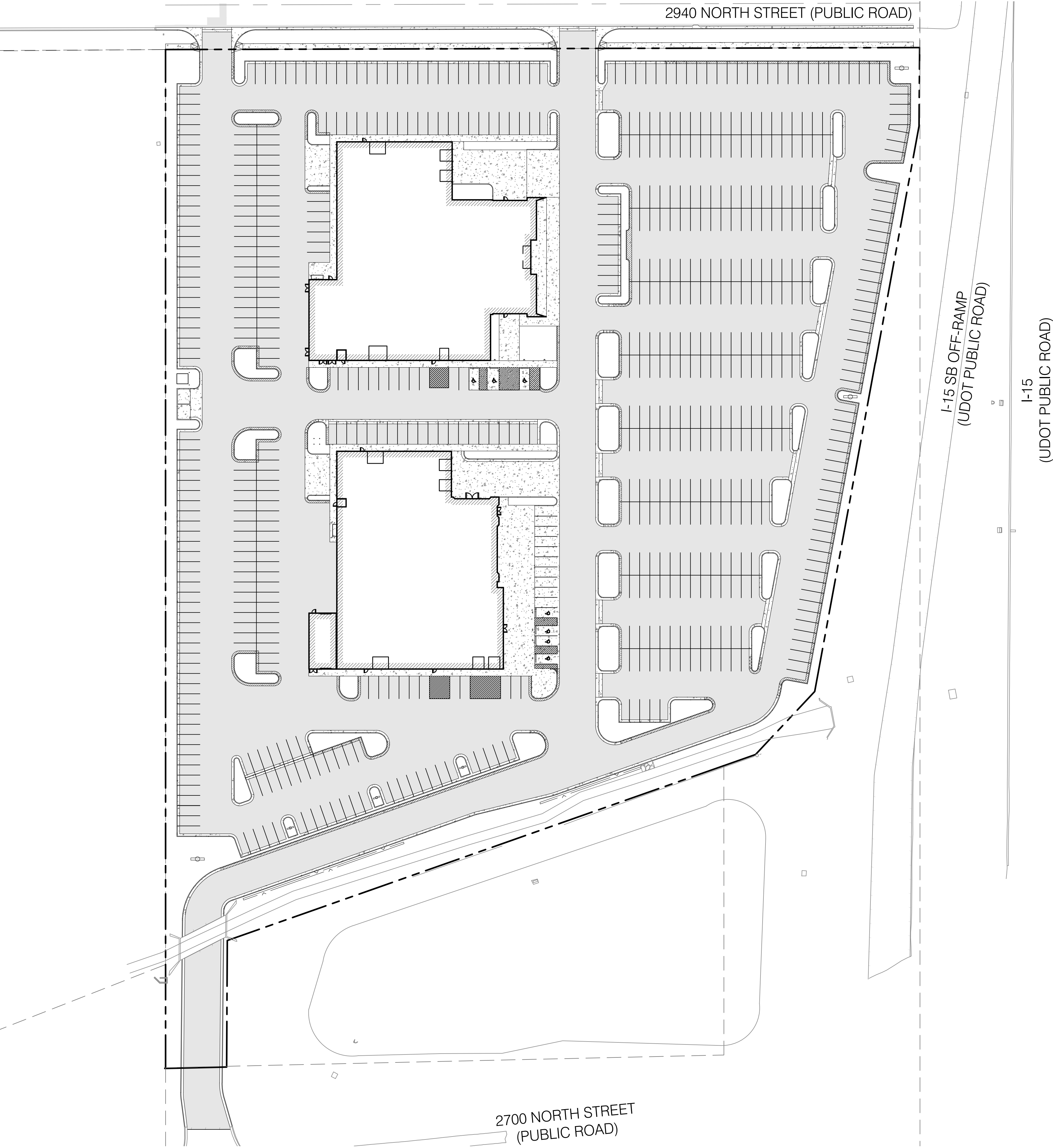
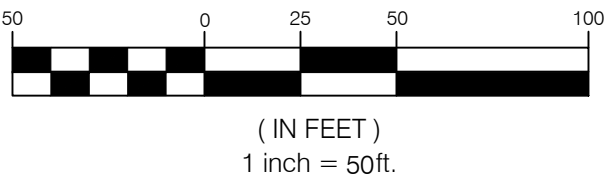


DOUG SMITH AUTOPLEX

LOCATED IN THE SOUTHEAST QUARTER OF SECTION 6,
TOWNSHIP 8 SOUTH, RANGE 3 EAST,
SALT LAKE BASE AND MERIDIAN
2850 NORTH 350 EAST
SPANISH FORK CITY, UTAH COUNTY, UTAH



GRAPHIC SCALE



VICINITY MAP
N.T.S

OWNER/DEVELOPER:
DOUG SMITH DEALERSHIPS
MIKE SMITH
385-304-4914 EXT 104
mike@heydoug.net

DRAWING INDEX

COVER	COVER SHEET
CGN.01	GENERAL NOTES, LEGEND & ABBREVIATION
CSP.01	SITE PLAN
CSP.02	SITE PLAN
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PRELIMINARY CIVIL PLANS
NOT FOR CONSTRUCTION

PRELIMINARY PLAN
PROFESSIONAL ENGINEER
No. 11366633
ALLISON G. ALBERT
STATE OF UTAH

**BENCHMARK
ENGINEERING &
LAND SURVEYING**
9138 SOUTH STATE STREET SUITE # 100
SANDY, UTAH 84070 (801) 542-7192
www.benchmarkcivil.com

DOUG SMITH AUTOPLEX		DRAFT TJB	DESIGN TJB	CHECK AGA	PROJECT NO. 2512197
2850 NORTH 350 EAST SPANISH FORK, UTAH		DATE: 03/25/2026	DATE: 03/25/2026	DATE: 4/24/2026	COVER
No.	DATE	DESCRIPTION			
1	06/12/2026	REVISED PER CITY COMMENTS			
					1 OF 15

The image displays two columns of road design symbols, labeled 'NEW' and 'EXISTING', comparing modern and traditional standards. Each column contains 18 distinct symbols used in road engineering drawings.

NEW Column Symbols (from top to bottom):

- Solid line
- Dashed line
- Dash-dot line
- Double solid line
- Double dashed line
- Double dash-dot line
- Line with diagonal hatching
- Line with a series of circles
- Line with a series of squares
- Line with a small rectangle in the center
- Line with a small circle in the center
- Line with a small square in the center
- Line with a small diamond in the center
- Line with an 'X' in the center
- Line with an asterisk in the center
- Dashed line with '4475' in the center
- Line with a box containing 'XXX' and 'TOC' below it
- Line with 'SS' in the center
- Line with 'SD' in the center
- Line with 'W' in the center
- Line with 'IRR' in the center
- Line with 'OHP' in the center
- Line with 'UG' in the center
- Line with 'GAS' in the center
- Line with 'T' in the center
- Line with 'CATV' in the center
- Line with a right-pointing arrow in the center
- Line with a wavy line and 'FO' in the center
- Line with a rectangular box containing a stippled pattern

EXISTING Column Symbols (from top to bottom):

- Solid line
- Dashed line
- Dash-dot line
- Double solid line
- Double dashed line
- Double dash-dot line
- Line with diagonal hatching
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- Line with a right-pointing arrow in the center
- Line with a wavy line and 'FO' in the center

NEW	EXISTING

BC	BAR & CAP	PVT	POINT OF TANGENCY
BOWM	BOTTOM OF VISIBLE WALL	PUE	PUBLIC UTILITY EASEMENT
COR	SECTION CORNER	R	RADIUS OF CURVE
CCB	CATCH BASIN	RM	TOP ELEVATION OF A STRUCTURE
CF	CUBIC FEET	RR	RAILROAD
D	DELTA ANGLE	ROW	RIGHT-OF-WAY
EG	EXISTING GROUND	R/W	RIGHT-OF-WAY
EOA	EDGE OF ASPHALT	SCO	SEWER CLEANOUT
EOC	EDGE OF CONCRETE	SSMH	SEWER MANHOLE
EX/EG	EXISTING	SD	STORM DRAIN
FFE	FINISH FLOOR ELEVATION	SF	SQUARE FEET
FG	FINISHED GRADE	TBC	TOP BACK OF CURB
FH	FIRE HYDRANT	TMH	TELEPHONE MANHOLE
FL	FLOW LINE	TOA	TOP OF ASPHALT PAVEMENT
GB	GRADE BREAK	TOCP	TOP OF CONCRETE PAVEMENT
GW	GUY WIRE	TOF	TOP OF FOOTING
HP	HIGH POINT	TOE	TOE OF SLOPE
HW	HEAD WALL	TOG/TG	TOP OF GRATE
IE	INVERT ELEVATION	TOS	TOP OF SLOPE
LP	LP OF CURB AND GUTTER	TOW	TOP OF WALL
L	LENGTH OF CURVE	TR	TELEPHONE RISER
LF	LINEAR FEET	UGP	UNDERGROUND POWER
LP	LOW POINT	VPC	VERTICAL POINT OF CURVATURE
MAI	MONUMENT TO MONUMENT	VPI	VERTICAL POINT OF INTERSECTION
MH	MANHOLE		
MON.	SURVEY MONUMENT		
OPH	OVERHEAD POWER	VPT	VERTICAL POINT OF TANGENCY
P/C	POINT OF CURVATURE	WM	WATER METER
PI	POINT OF INTERSECTION	WW	WATER VALVE
PP	POWER POLE		

ALL MATERIALS AND CONSTRUCTION IN THE PUBLIC RIGHT OF WAY SHALL BE IN ACCORDANCE WITH RESPONSIBLE DESIGN OR AGENCY.

2. CONTRACTOR AND APPLICABLE SUBCONTRACTORS SHALL ATTEND ALL PRE-CONSTRUCTION CONFERENCES AND PERIODIC PROGRESS MEETINGS PRIOR TO ANY WORK BEING PERFORMED. THE CONTRACTOR SHALL CONTACT RESPONSIBLE DISTRICT OR AGENCY FOR A PRE-CONSTRUCTION CONFERENCE. CONTRACTOR SHALL ALSO NOTIFY THE APPROPRIATE PROJECT CONTACTS (48 HOURS IN ADVANCE OF EACH MEETING)

3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PUBLIC SAFETY AND OSHA STANDARDS.

4. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS, THE GEOLOGY RECORDS AND THE SITE CONDITIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL INSPECT THE SITE OF WORK PRIOR TO BEGINNING TO SATISFY THEMSELVES BY PERSONAL EXAMINATION OR BY SUCH OTHER MEANS AS THEY MAY PREFER, OF THE LOCATION OF THE PROPOSED WORK AND THE ACTUAL CONDITIONS ON AND ADJACENT TO THE SITE OF WORK.

THE CONTRACTOR WHOSE WORK APPEARS TO BE IN CONFLICT WITH THE LETTERS OR SPIRIT OF THE PROJECT PLANS AND SPECIFICATIONS, THEY SHALL CONTACT THE ENGINEER FOR ADDITIONAL INFORMATION AND EXPLANATION BEFORE SUBMITTING THEIR BID.

SUBMISSION OF A BID BY THE CONTRACTOR SHALL CONSTITUTE ACKNOWLEDGMENT THAT IF AWARDED THE CONTRACT, THEY WILL COMPLY WITH ALL CITY ORDINANCES AND THE STANDARD SPECIFICATIONS OF THE UTAH DEPARTMENT OF TRANSPORTATION AND ALL OTHER DATA AND MATTERS REFERRED TO THE FULFILLMENT OF THE WORK AND ON THEIR OWN KNOWLEDGE OF EXISTING FACILITIES AND IN THE VICINITY OF THE SITE OF THE WORK TO BE CONSTRUCTED UNDER THIS CONTRACT.

THE INFORMATION PROVIDED BY THE OWNER OR THE ENGINEER IS NOT INTENDED TO BE A SUBSTITUTE FOR, OR A SUPPLEMENT TO, THE PROFESSIONAL JUDGMENT AND SKILLS OF THE CONTRACTOR. THE OWNER'S REPENDENT INVESTIGATIONS AND TESTS AND CONDITIONS IS DEEMED NECESSARY OR DESIRABLE BY THE CONTRACTOR. CONTRACTOR SHALL ACKNOWLEDGE THAT THEY HAVE NOT RELIED SOLELY UPON OWNER OR ENGINEER FURNISHED INFORMATION REGARDING SITE CONDITIONS IN PREPARING AND SUBMITTING THEIR BID.

5. ALL WORK SHALL COMPLY WITH THE AMERICAN PUBLIC WORKS ASSOCIATION UTAH CHAPTER (APWA) MANUAL OF PRACTICE, EDITIONS 2017 EDITION AND THE NATIONAL STANDARD SPECIFICATIONS 2017 EDITION. SAID STANDARD SPECIFICATIONS AND PLANS SHALL BE SUBSIDIARY TO MORE STRINGENT REQUIREMENTS BY APPLICABLE LOCAL JURISDICTION.

6. THE CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR BY THESE PLANS AND SPECIFICATIONS. THE OWNER IS RELYING UPON THE EXPERIENCE AND EXPERTISE OF THE CONTRACTOR. IT SHALL BE EXPECTED THAT THE PRICES PROVIDED WITHIN THE CONTRACT DOCUMENTS SHALL INCLUDE ALL LABOR AND MATERIALS NEEDED AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE.

THE CONTRACTOR SHALL BE COMPETENT, KNOWLEDGEABLE AND HAVE SPECIAL SKILLS ON THE NATURE, EXTENT AND INHERENT CONDITIONS OF THE WORK TO BE PERFORMED. CONTRACTOR SHALL ALSO KNOWLEDGE THAT THERE ARE CERTAIN LIMITATIONS TO THE CAPABILITY OF ANY INDIVIDUAL OR ORGANIZATION. CONTRACTOR SHALL BE AWARE OF CERTAIN CREATIVE DURING THE CONSTRUCTION PROGRAM. UNUSUAL OR PECULIAR UNSAFE CONDITIONS HAZARDOUS TO PERSONS, PROPERTY AND THE ENVIRONMENT. CONTRACTOR SHALL BE AWARE OF SUCH PECULIAR RISKS AND HAVE THE SKILL AND EQUIPMENT TO TAKE APPROPRIATE PROTECTIVE MEASURES TO ADEQUATELY AND SAFELY PERFORM THE CONSTRUCTION WORK WITH RESPECT TO SUCH HAZARDS.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT, AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS AND CONDITIONS OF ALL PERMITS AND APPROVALS APPLICABLE TO THIS PROJECT. THE CONTRACTOR SHALL ENSURE THAT THE NECESSARY PERMITS AND APPROVALS ARE OBTAINED PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN APPROPRIATE PERMITS WHERE APPLICABLE FOR ANY CITY, COUNTY, AND/OR STATE WITHIN 90-DAY OF WORK OR EASEMENTS FROM THE CITY AND COUNTY OF SALT LAKE COUNTY, UTAH, AND/OR STATE, WITHIN 48 HOURS IN ADVANCE OF COMMUNICATING THE WORK, OR AS REQUIRED BY SAID PERMITS.

32. ALL SEWER LINE TO BE FUSHED, PRESSURE TESTED TO 5 PSI VIDEO INSPECTED AND OTHERWISE TESTED IN ACCORDANCE WITH DISTRICT STANDARDS PRIOR TO PLACING IN SERVICE.
33. ALL SEWER PIPES ARE TO BE SDR-35 PVC PIPE.
34. ALL SEWER MANHOLES, LATERALS AND CLEANOUTS TO BE INSTALLED PER RESPONSIBLE DISTRICT OR AGENCY STANDARDS. THE UNIT COST OF THE SEWER LATERAL, INCLUDES CONNECTION TO THE SEWER MAIN. THE CLEANOUT RISER FOR EACH SERVICE SHALL BE INSTALLED BY THE CONTRACTOR.
35. ALL SEWER CLEANOUTS MUST BE INSTALLED AT A MINIMUM OF EVERY 50 L.F. FOR 4 INCH Ø LATERALS AND EVERY 100 L.F. FOR 8 INCH Ø LATERALS, OR PER THE RESPONSIBLE DISTRICT OR AGENCY STANDARDS, WHICHEVER IS MORE FREQUENT.
36. A SEWER CLEANOUT MUST BE INSTALLED S.L.F. TO 10 L.F. FROM ANY PROPOSED STRUCTURE, OR PER THE RESPONSIBLE DISTRICT OR AGENCY STANDARDS.
37. ALL SEWER LATERAL BENDS AND ANGLES TO BE INSTALLED AS SWEEPING BENDS WITH SEWER CLEANOUTS.
38. DURING CONSTRUCTION OF THE SEWERLINE, WYES NEED TO BE INSTALLED FOR THE LATERALS. LATERALS ARE 4" AND NOT TO BE IN AT THE TOP OF THE PIPE WITH A WYE. (SEE RESPONSIBLE DISTRICT OR AGENCY STANDARDS)
39. IT IS THE INTENT ON THESE PLANS THAT ALL SEWER PIPES SHALL SLOPE TO AND EXISTING SEWER CONNECTION VIA GRAVITY FLOW. CONTRACTOR TO START AT THE LOW END OF GRAVITY UTILITY LINES AND VERIFY THAT ALL INVERT ELEVATIONS PROVE SLOPE TO EXISTING CONNECTION VIA GRAVITY. SLOPES MUST MEET OR EXCEED THE SEWER DISTRICTS MINIMUM STANDARDS. NOTIFY ENGINEER IF THERE ARE DISCREPANCIES THAT WOULD CAUSE THE SEWER UTILITY NOT TO DRAIN VIA GRAVITY ON THE SITE.

WATER

40. WATERLINES TO BE PVC Ø 900. WATER LINES SHALL BE A MINIMUM OF 10' HORIZONTALLY FROM SEWER MAINS. CROSSINGS SHALL MEET STATE HEALTH STANDARDS. MECHANICAL JOINTS REQUIRED WHEN LESS THAN 18" VERTICAL OR TEN FEET HORIZONTAL SEPARATION FROM SEWERLINE.
41. ALL WATERLINES SHALL BE 8" MINIMUM SIZE AND SERVICE LATERALS SHALL BE 1-1/2" MINIMUM UNLESS OTHERWISE NOTED.
42. WATER SERVICE LATERALS TO INCLUDE ALL BRASS SADDLE, CORP. STOP LATERAL, DOUBLE CHECK VALVE AND BACKFLOW PREVENTION DEVICE, AND SHUTOFF VALVE IN BOX NEAR BUILDING EDGE.
43. ALL WATERLINES SHALL BE 48" BELOW FINISH GRADE TO TOP OF PIPE. ALL VALVE BOXES AND MANHOLES SHALL BE RAISED OR LOWERED TO FINISH GRADE AND SHALL INCLUDE A CONCRETE COLLAR IN PAVED AREAS. ALL WATER LINES SHALL BE LOOPED AROUND FINISH GRADE OR ROPED PER RESPONSIBLE DISTRICT OR AGENCY INSPECTOR.
44. CONTRACTOR TO NOTIFY RESPONSIBLE DISTRICT OR AGENCY FOR CHLORINE TEST PRIOR TO FLUSHING LINES. CHLORINE LEFT IN PIPE 24 HRS. MINIMUM WITH 25 PPM RESIDUAL. ALL TURNING OF MAINLINE VALVES, CHLORINATION, FLUSHING,

07. ALL SITE CONCRETE OR EXCAVED OVERSIGHT SITE SPECIFICATIONS.

08. ALL SLOPE SLOPE OR CONCRETE ELEMENT NOT SPECIFICALLY SHOWN AND DETAILED ON STRUCTURAL DRAWINGS TO HAVE A MINIMUM OF 28 DAY COMPRESSION STRENGTH OF 4000 PSI.

09. APPROVED PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING THE GRADING PROJECT.

10. ALL DESIGN SLOPES AND TIE-IN SLOPES SHALL CONFORM TO THE FOLLOWING LIMITATIONS. CONTRACTOR SHALL NOTIFY CIVIL ENGINEER FOR REDESIGN IF ANY AREAS EXCEED THE FOLLOWING SLOPES PRIOR TO FORMING, POURING OR PAVING ANY HARDSCAPE.

20.0. ALL GRADING CAPACITING SHALL SLOPE AT A MINIMUM OF 2% AND MAXIMUM OF 50% IN ANY DIRECTION

20.2. ASPHALT SHALL SLOPE AT A MINIMUM OF 1.5% AND MAXIMUM OF 5% IN ANY DIRECTION, SEE 68.6

20.3. CONCRETE FLOWPARK SHALL SLOPE AT A MINIMUM OF 1% AND MAXIMUM OF 5% IN ANY DIRECTION, SEE 68.6

20.4. CURB AND GUTTER SHALL SLOPE AT A MINIMUM OF 0.5% AND MAXIMUM OF 2% IN THE LONGITUDINAL DIRECTION

20.5. ROADWAY CROSS SLOPES SHALL BE BETWEEN 2% AND 4% OR WITHIN THE RESPONSIBLE DISTRICT OR AGENCIES LIMITS

20.6. FINISHED GRADE SHALL SLOPE AWAY FROM ALL BUILDINGS FOR A MINIMUM OF 10 FEET WITH THE FOLLOWING SLOPES:

20.7. ALL ADA COMPONENTS SHALL MEET CURRENT ADA AND APWA SLOPE REQUIREMENTS

DEWATERING

21. THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE AND MAINTAIN ALL MACHINERY, APPLIANCES AND EQUIPMENT TO MAINTAIN ALL EXCAVATIONS FREE FROM WATER DURING CONSTRUCTION. THE CONTRACTOR SHALL DISPOSE OF THE WATER AS NOT TO CAUSE DAMAGE TO PUBLIC OR PRIVATE PROPERTY, OR TO CAUSE A NUISANCE OR MENACE TO THE PUBLIC OR PRIVATE PROPERTY. THE CONTRACTOR SHALL BE INSTALLED AND OPERATED SO THAT THE GROUNDWATER LEVEL DURING THE EXCAVATION IS NOT REDUCED TO THE EXTENT WHICH WOULD CAUSE DAMAGE OR ENDANGER ADJACENT STRUCTURES OR PROPERTIES. THE CONTRACTOR SHALL MAINTAIN THE WATER LEVEL OF THE EXCAVATION AT OR ABOVE THE GROUNDWATER LEVEL. THE STATISTICAL WATER LEVEL SHALL BE DRAWN DOWN A MINIMUM OF 1 FOOT BELOW THE BOTTOM OF EXCAVATIONS TO MAINTAIN THE UNDISTURBED STATE OF NATURAL SOILS AND ALLOW THE PLACEMENT OF ANY FILL TO THE SPECIFIED DENSITY. THE CONTRACTOR SHALL HAVE ON HAND, PUMPING EQUIPMENT AND MACHINERY IN GOOD CONDITION FOR EMERGENCIES AND SHALL HAVE WORKMEN AVAILABLE FOR ITS OPERATION. DEWATERING SYSTEM SHALL OPERATE CONTINUOUSLY UNTIL BACKFILL HAS BEEN COMPLETED TO 1 FOOT ABOVE THE NORMAL STATISTICAL GROUNDWATER LEVEL.

22. THE CONTRACTOR SHALL CONTROL SURFACE WATER TO PREVENT ENTRY INTO EXCAVATIONS. AT EACH EXCAVATION, A SUFFICIENT NUMBER OF TEMPORARY OBSERVATION WELLS TO CONTINUOUSLY CHECK THE GROUNDWATER LEVEL SHALL BE PROVIDED.

23. SLUMPS SHALL BE NO DEEPER THAN 5 FEET AND SHALL BE AT THE LOW POINT OF EXCAVATION. EXCAVATION SHALL BE GRADED TO DRAIN THE SLOPES.

24. THE CONTROL OF GROUNDWATER SHALL BE SUCH THAT SETTLEMENT OF THE BOTTOM OF EXCAVATIONS, OR FORMATION OF CRACKS OR SLUMPS, SHALL BE PREVENTED. EXCAVATIONS DESIGNED AND OPERATED SO AS TO PREVENT REMOVAL OF NATURAL SOILS. THE RELEASE OF GROUNDWATER AT ITS STATIC LEVEL SHALL BE PERFORMED IN SUCH MANNER AS TO MAINTAIN THE UNDISTURBED STATE OF NATURAL FLOWING SOILS. PREVENT DISTURBANCE OF COMPACTED BACKFILL AND PREVENT EROSION OR MOVEMENT OF STRUCTURES, PIPES AND SEWERS. IF A UPPOSED LITH POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT IS REQUIRED FOR DISPOSAL OF WATER FROM CONSTRUCTION DEWATERING ACTIVITIES, IT SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO ANY Dewatering ACTIVITIES.

25. ONE HUNDRED PERCENT STANDBY PUMPING CAPACITY SHALL BE AVAILABLE ON SITE AT ALL TIMES AND SHALL BE

7. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL INCLUDE, BUT NOT BE LIMITED TO, NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.

77. THE CONTRACTOR AGREES THAT:

- A. THEY SHALL BE RESPONSIBLE TO CLEAN THE JOB SITE AT THE END OF EACH PHASE OF WORK.
- B. THEY SHALL BE RESPONSIBLE TO REMOVE AND DISPOSE OF ALL TRASH, SCRAP AND UNUSED MATERIAL AT THEIR OWN EXPENSE IN A TIMELY MANNER.
- C. THEY SHALL BE RESPONSIBLE TO MAINTAIN THE SITE IN A NEAT, SAFE AND ORDERLY MANNER AT ALL TIMES.
- D. THEY SHALL BE RESPONSIBLE TO KEEP MATERIALS, EQUIPMENT, AND TRASH OUT OF THE WAY OF OTHER CONTRACTORS SO AS NOT TO DELAY THE JOB. FAILURE TO DO SO WILL RESULT IN A DEDUCTION FOR THE COST OF CLEAN UP FROM THE FINAL PAYMENT.
- E. THEY SHALL BE RESPONSIBLE FOR THEIR OWN SAFETY, TRAFFIC CONTROL, PERMITS, RETESTING AND REINSPECTIONS AT THEIR OWN EXPENSE.
- F. UNLESS OTHERWISE NOTED, ALL EXCESS SOILS AND MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LAWFULLY DISPOSED OF OFF SITE AT THE CONTRACTORS EXPENSE.
- G. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, BARRICADES, SIGNS, FLAGMEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
- H. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTORS USE DURING CONSTRUCTION.
- I. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM THE SITE.

78. FOR ALL WORK WITHIN PUBLIC RIGHTS-OF-WAY OR EASEMENTS, THE CONTRACTOR SHALL PRESERVE THE INTEGRITY AND LOCATION OF ANY AND ALL PUBLIC UTILITIES AND PROVIDE THE NECESSARY CONSTRUCTION TRAFFIC CONTROL. CONTRACTOR SHALL, THROUGH THE ENCROACHMENT PERMIT PROCESS, VERIFY WITH THE NECESSARY REGULATORY AGENCIES THE NECESSITY FOR ANY SPECIAL REQUIREMENTS. CONTRACTOR SHALL PROVIDE PLAN AND RECEIVED PROPER APPROVALS PRIOR TO BEGINNING CONSTRUCTION. WORK IN EASEMENT AND/OR RIGHTS-OF-WAY IS SUBJECT TO THE APPROVAL AND/OR AUTHORITY AGENCY RESPONSIBLE FOR OPERATION AND/OR MAINTENANCE OF SAID RIGHT-OF-WAY. ALL CONSTRUCTION WORK IN UDOT RIGHT-OF-WAY SHALL BE SUBJECT TO INSPECTION BY THE STATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT INSPECTIONS TAKE PLACE WHERE AND WHEN REQUIRED AND THAT ALL WORK IS COMPLYING TO UDOT STANDARDS.

79. SUBGRADE PREPARATION: SUBGRADE SHALL BE COMPACTED TO A 95% RELATIVE COMPACTION TO A MINIMUM DEPTH OF 6" FOR ALL ON-SITE DEVELOPMENT. ALL OFF-SITE IMPROVEMENTS ARE TO BE DONE PER APWA STANDARDS.

80. AGGREGATE SUB-BASE: AGGREGATE SUB-BASE SHALL BE GRANULAR BACKFILL BORROW. AGGREGATE SUB-BASE MATERIAL SHALL BE CLEAN AND FREE FROM VEGETABLE MATTER AND OTHER DELECTERIOUS SUBSTANCE. AGGREGATE SHALL COMPLY WITH THE GUIDELINE REQUIREMENTS FOR PAVEMENTS FOUND IN THE PROFESSIONALLY PREPARED OF THE SOLS INVESTIGATIONS COMPLETED ON THIS SITE.

81. AGGREGATE BASE: AGGREGATE BASE SHALL BE GRADE 3/4 UNTREATED BASE COURSE, AND COMPLY PREPARED REPORT OF THE SOLS INVESTIGATION PREPARED ON THIS SITE.

82. ALL SIDEWALKS AND CROSSINGS TO MEET CURRENT ADA STANDARDS/ APWA STANDARDS.

SAID AREAS, SHALL BE INCLUDED IN THE CONTRACTORS UNIT PRICE FOR PAVEMENT. AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR SUCH WORK.

84. INSTALLATION OF STREET LIGHTS SHALL BE IN ACCORDANCE WITH CITY STANDARDS.

85. PRIOR TO FINAL ACCEPTANCE OF THE IMPROVEMENTS BUILT BY THESE PLANS AND SPECIFICATIONS THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE OWNER, CITY, AND POWER COMPANY TO HAVE THE ELECTRICAL SYSTEM AND ALL STREET LIGHTS ENERGIZED.

86. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRIPING AND/OR PAVEMENT MARKINGS NECESSARY TO THE EXISTING STRIPING INTO FUTURE STRIPING. METHOD OF REMOVAL SHALL BE BY GRINDING OR SANDBLASTING.

87. STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH MUTCD & APWA 32.17 32.

88. DURING THE BIDDING PROCESS, CONTRACTOR TO REVIEW DESIGN SLOPES SHOWN FOR PAVEMENT AND WARRANT THE PAVEMENT TO THE OWNER BASED UPON THE DESIGN SLOPES SHOWN HEREIN. CONCERNS WITH SLOPES MUST BE BROUGHT DURING THE BIDDING PROCESS.

PUDDLING ON THE SITE.

REVISION		DATE	REVISION PER CITY COMMENTS
1		06/12/2006	

OWNER	TJB
CHECKED BY	AGA
FIELD DRAW	SC
DATE	4/24/2006
DRAWN BY	2512197 SITE

SCALE	1" = 10'
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SCALE MEASURES	HIGH ON FULL SIZE SHEETS
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PRELIMINARY PLAN

PROFESSIONAL ENGINEER

No. 1136663

ALLISON G. ALBERT

Allison G. Albert

STATE OF ILL.

NOT FOR CONSTRUCTION

BENCHMARK
CIVIL

**BENCHMARK
ENGINEERING &
LAND SURVEYING**

9138 SOUTH STATE STREET SUITE #100
SANDY, UTAH 84070 (801) 542-7192
www.benchmarkcivil.com

DOUG SMITH AUTOPLEX	2850 NORTH 350 EAST SPANISH FORK, UTAH
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2512197

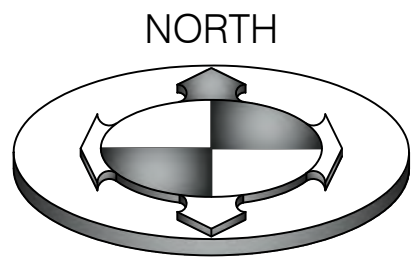
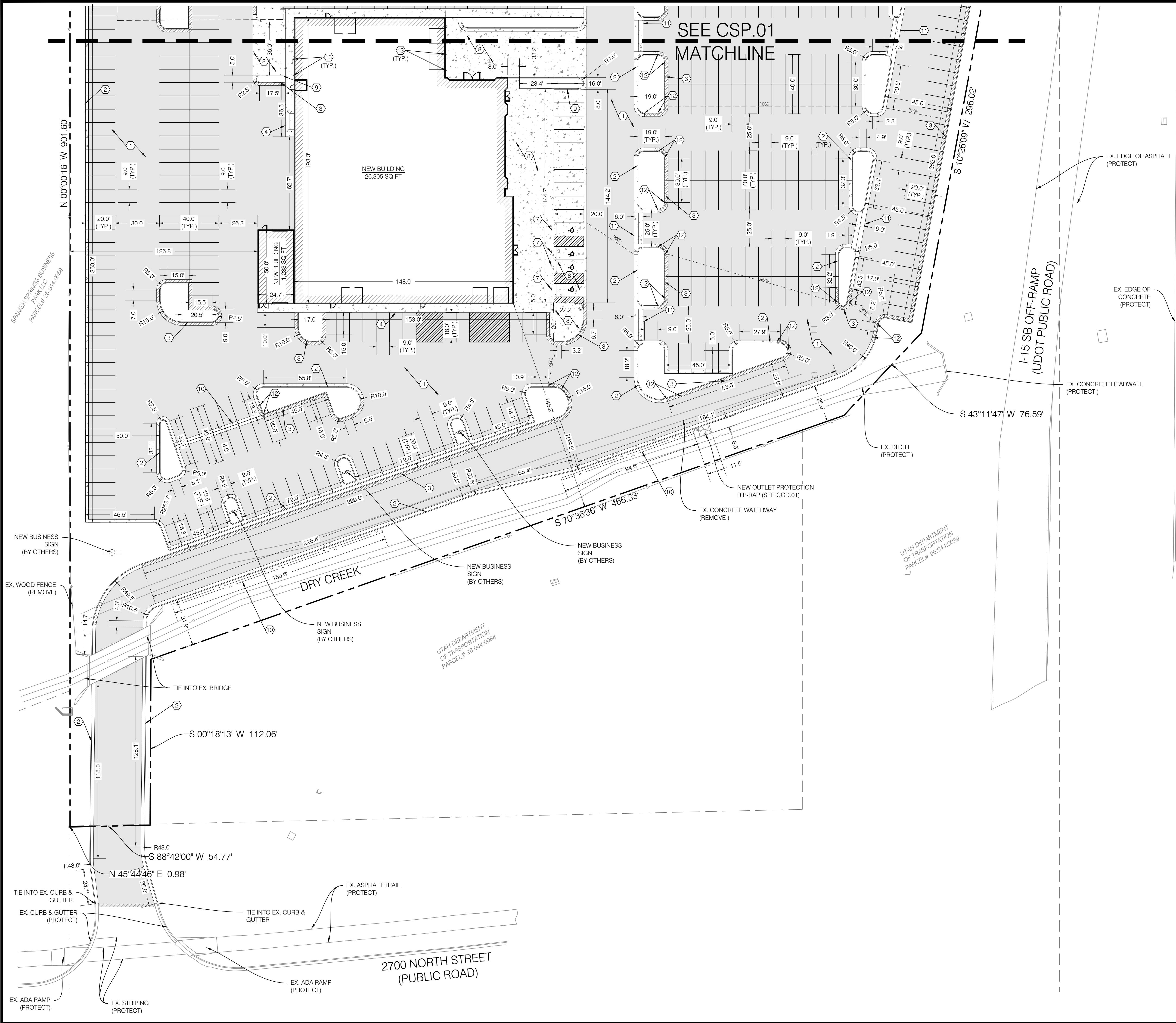
GEN. NOTES
LEGEND &
ABBREV.

CGN.01
2 OF 15

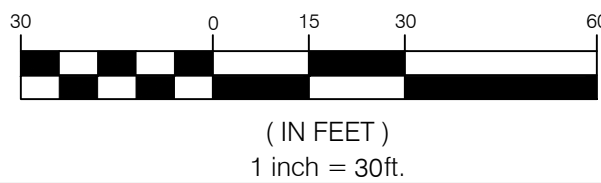
PROJECT NO.
2512197

SITE
PLAN

CSP.01
3 OF 15



GRAPHIC SCALE



CONSTRUCTION KEY NOTE REFERENCE		
NO.	DESCRIPTION	DETAIL
1	ASPHALT PAVEMENT WITH GRANULAR BASE	1/CDT.01
2	30" CATCH CURB AND GUTTER PER SFC ST-512	2/CDT.01
3	30" RELEASE CURB & GUTTER	3/CDT.01
4	SIDEWALK THICKENED EDGE	4/CDT.01
5	SIDEWALK SFC ST-514	5/CDT.01
6	ADA RAMP	1/CDT.02
7	ADA SIGN	1/CDT.02
8	CONCRETE PAVEMENT WITH AGGREGATE BASE	1/CDT.01
9	CONCRETE CURB WALL PER APWA #209 TYPE 'P'	
10	4" CONCRETE WATERWAY PER APWA #211	
11	6" CONCRETE WATERWAY PER APWA #211	
12	30" TRANSITION CURB & GUTTER	
13	CONCRETE BOLLARD	
14	ROCK PROTECTED SLOPE	1/CGD.01

AREA TABLE		
PARTICULARS	S.F.	%
BUILDING	58,111	13.2
HARDSCAPE*	326,546	73.9
LANDSCAPE*	67,896	12.9
TOTAL*	452,553	100.0

*NOTE: AREA CALCULATIONS GIVEN IN THIS TABLE INCLUDE AREAS IN THE PARK STRIP THAT ARE PART OF THE PUBLIC RIGHT-OF-WAY. SEE DRAINAGE CALCULATIONS ON CGD.01 FOR PRIVATE PROPERTY AREAS.

PARKING COUNT		
PARTICULARS	PROVIDED	REQUIRED
PARKING STALLS	685	7
TOTAL	692	

NOTE: SLOPE ACROSS THE ACCESSIBLE PARKING STALLS & ACCESS ISLE SHALL NOT EXCEED A 1:48 (2.00%) SLOPE, THE MAX GRADE DIFFERENCE BETWEEN THE ASPHALT SURFACE, ACCESSIBLE RAMP, AND SIDEWALK SHALL NOT EXCEED 1/4 INCH VERTICAL OR 1/2 INCH WHEN BEVELED. THE ACCESSIBLE MEANS OF EGRESS INCLUDING THE DRIVEWAY PORTION SHALL NOT EXCEED A SLOPE OF 1:20 (5.0%) & A CROSS SLOPE OF 1:48 (2.0%). ALL EXTERIOR DOORWAY ACCESS REQUIRE AN EXTERIOR LANDING 60 INCHES IN LENGTH WITH A SLOPE NOT EXCEEDING A 1:48 (2.0%) SLOPE

NOTE: SAWCUT WIDTH, LOCATIONS AND TIE-IN ELEVATIONS TO EXISTING GRADE ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATION, EXTENT OF SAWCUTTING, AND TIE-IN SLOPES TO EXISTING GRADE PRIOR TO CONSTRUCTION. IT IS THE INTENT ON THESE PLANS THAT ALL PAVEMENT SHALL TIE INTO EXISTING GRADE PER SLOPES LISTED ON CGN.01 NOTE 70. SEE NOTES 66, 70, 82, & 83 ON CGN.01 FOR FURTHER DETAIL.

NOTE: ALL WORK WITHIN PUBLIC ROADS TO BE DONE IN STRICT ACCORDANCE WITH SPANISH FORK STANDARDS AND SPECIFICATIONS

NOTE: ALL DRINKING WATER AND PRESSURIZED IRRIGATION LINES UP TO AND INCLUDING THE METER, ALL SANITARY SEWER MAINS, ALL ELECTRICAL METERS, AND ALL ELECTRIC AND SFON COMMUNICATION SERVICE LINES UP TO THE MAST ON OVERHEAD INSTALLATIONS AND TO THE TOP OF THE METER BASE FOR UNDERGROUND INSTALLATIONS ARE DEDICATED TO SPANISH FORK CITY.

BUILDING FIRE SUPPRESSION NOTE: BOTH BUILDING TO HAVE FIRE SPRINKLERS INSTALLED PER THE INTERNATIONAL FIRE CODE (IFC).

CHEVROLET BUILDING (NORTH)
AREA: 30,572 SQ. FT.
FFE: 4521.00
CONSTRUCTION TYPE: IIB
OCCUPANCY: B / S-1

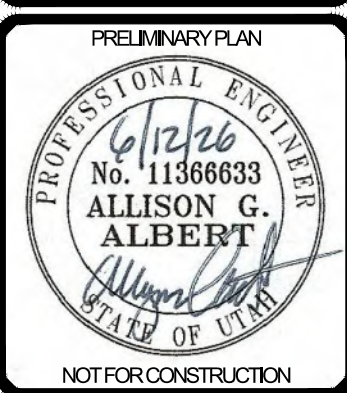
CHRYSLER, JEEP, DODGE BUILDING (SOUTH)
AREA: 26,305 SQ. FT.
FFE: 4521.00
CONSTRUCTION TYPE: IIB
OCCUPANCY: B / S-1



REVISIONS		DESCRIPTION
NO.	DATE	REVISION
1	08/10/2026	REVISED PER CITY COMMENTS

DESIGNED BY	AG
CHECKED BY	AG
DATE	4/24/2026
TITLE	2512197 SITE

SCALE MEASURES INCH ON FULL SIZE SHEET'S
ADJUST ACCORDANCE FOR REDUCED SIZE SHEETS



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DOUG SMITH AUTOPLEX

2850 NORTH 350 EAST
SPANISH FORK, UTAH

PROJECT NO. 2512197

SITE PLAN

CSP.02
4 OF 15

CONSTRUCTION KEY NOTE REFERENCE		
NO.	DESCRIPTION	DETAIL
1	GATE VALVE PER SFC STDS 'W-210' & 'W-223'	8/CDT.01
2	THRUST BLOCK PER SFC STDS 'W-201'	6/CDT.01
3	8" PVC C-900 WATER MAIN PER SFC STDS.	
4	6" PVC C-900 FIRELINE PER SFC STDS 'W-210' & 'W-223'	7/CDT.01
5	8"x6"x6" WATER CROSS PER SFC STDS.	
6	2" WATER METER & VAULT PER SFC STDS 'W-216'	8/CDT.01
7	2" POLY WATER SERVICE LINE PER SFC STDS 'W-216'	8/CDT.01
8	FIRE HYDRANT PER SFC STDS 'W-210' & 'W-223'	7/CDT.01
9	4" PVC SDR-35 SEWER LATERAL PER SFC STDS. 'SS-305'	1/CDT.03
10	6" PVC SDR-35 SEWER LATERAL PER SFC STDS. 'SS-305'	1/CDT.03
11	SEWER CLEAN OUT (EVERY 50' FOR 4" PIPE, EVERY 100' FOR 6" PIPE)	1/CDT.03
12	1250 GAL. SAND & OIL SEPARATOR PER OLD CASTLE OR EQUAL	3/CDT.03
13	SAMPLING MANHOLE PER SFC STDS. 'SS-306'	2/CDT.03
14	4" Ø POUR-IN-PLACE SS MANHOLE PER SFC STDS. 'SS-301'	2/CDT.04

NOTE:
PRIOR TO FABRICATION OR CONSTRUCTION, BEGIN AT THE LOW END OF ALL GRAVITY UTILITY LINES AND VERIFY THE INVERT ELEVATION OF THE POINT OF CONNECTION. NOTIFY ENGINEER FOR REDESIGN IF CONNECTION POINT IS HIGHER THAN SHOWN OR IF ANY UTILITY CONFLICTS OCCUR. GRAVITY CONNECTIONS MUST BE DONE PRIOR TO BUILDING FOOTINGS AND ROUGH PLUMBING ARE CONSTRUCTED.

EXISTING UTILITIES NOTE:
EXISTING UTILITIES HAVE BEEN NOTED TO THE BEST OF ENGINEERS KNOWLEDGE, HOWEVER IT IS THE OWNERS AND CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITIES IN FIELD. POT HOLE TO IDENTIFY ANY CONFLICTS BEFORE ANY PIPE INSTALLATION. NOTIFY ENGINEER IF DISCREPANCIES OR CONFLICTS EXIST PRIOR TO CONTINUING ANY CONSTRUCTION.

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NOTE A: (A)
12" OF VERTICAL SEPARATION REQUIRED BETWEEN STORM AND WATER LINES. LOOP WATER MAIN IF IN CONFLICT.

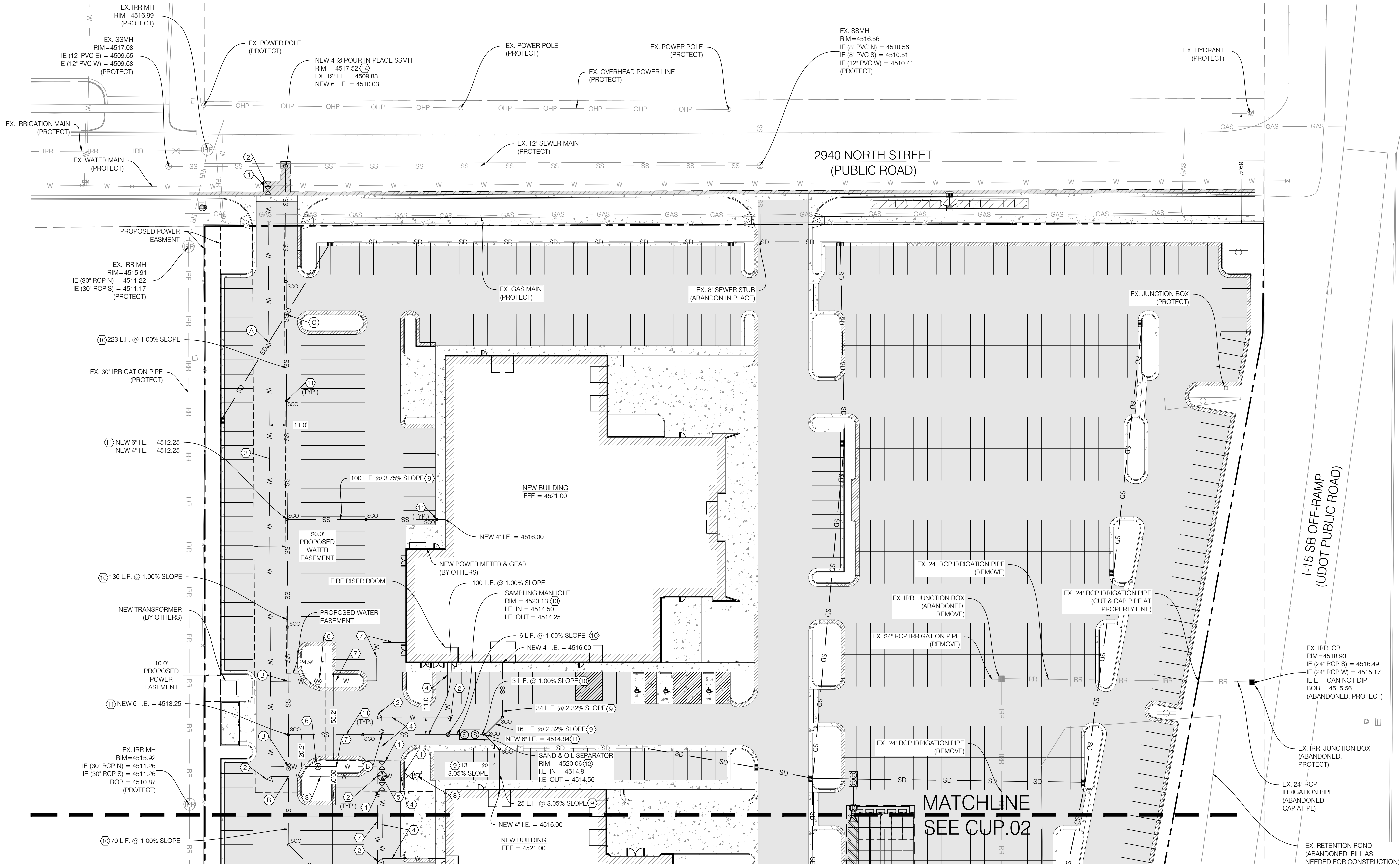
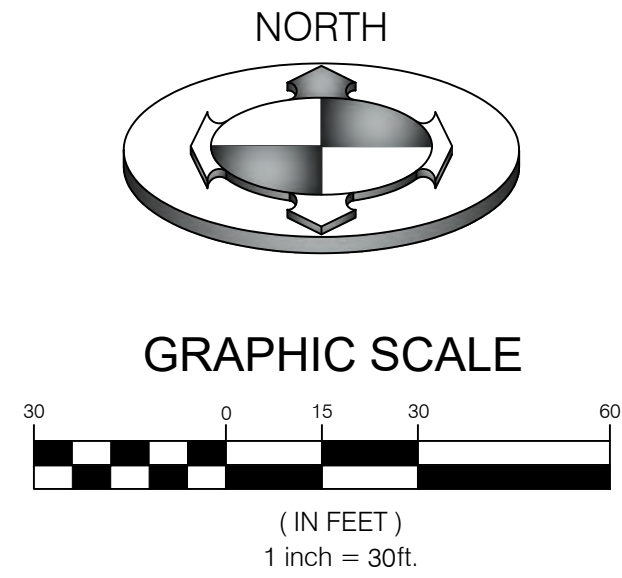
NOTE B: (B)
18" OF VERTICAL SEPARATION REQUIRED BETWEEN SEWER AND WATER LINES. CONTACT ENGINEER FOR REDESIGN IF NECESSARY.

NOTE C: (C)
12" OF VERTICAL SEPARATION REQUIRED BETWEEN SEWER AND STORM. CONTACT ENGINEER FOR REDESIGN IF NECESSARY.

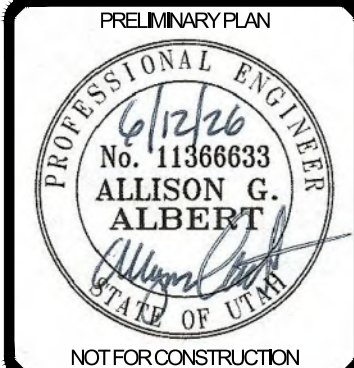
BUILDING FIRE SUPPRESSION NOTE:
BOTH BUILDING TO HAVE FIRE SPRINKLERS INSTALLED PER THE INTERNATIONAL FIRE CODE (IFC).

CHEVROLET BUILDING (NORTH)
AREA: 30,572 SQ. FT.
FFE: 4521.00
CONSTRUCTION TYPE: IIB
OCCUPANCY: B / S-1

CHRYSLER, JEEP, DODGE BUILDING (SOUTH)
AREA: 26,305 SQ. FT.
FFE: 4521.00
CONSTRUCTION TYPE: IIB
OCCUPANCY: B / S-1



REVISIONS		DESCRIPTION
NO.	DATE	REVISION PER CITY COMMENTS
1	08/12/2026	
DRAWN BY		TJB
CHECKED BY		AGA
FIELD CREW		SC
DATE		4/24/2026
DRAWN FILE		2512197 SITE
SCALE		0 15 30
SCALE MEASURES		HATCH ON FULL SIZE SHEETS ADJUST PROPORTIONS FOR REDUCED SIZE SHEETS



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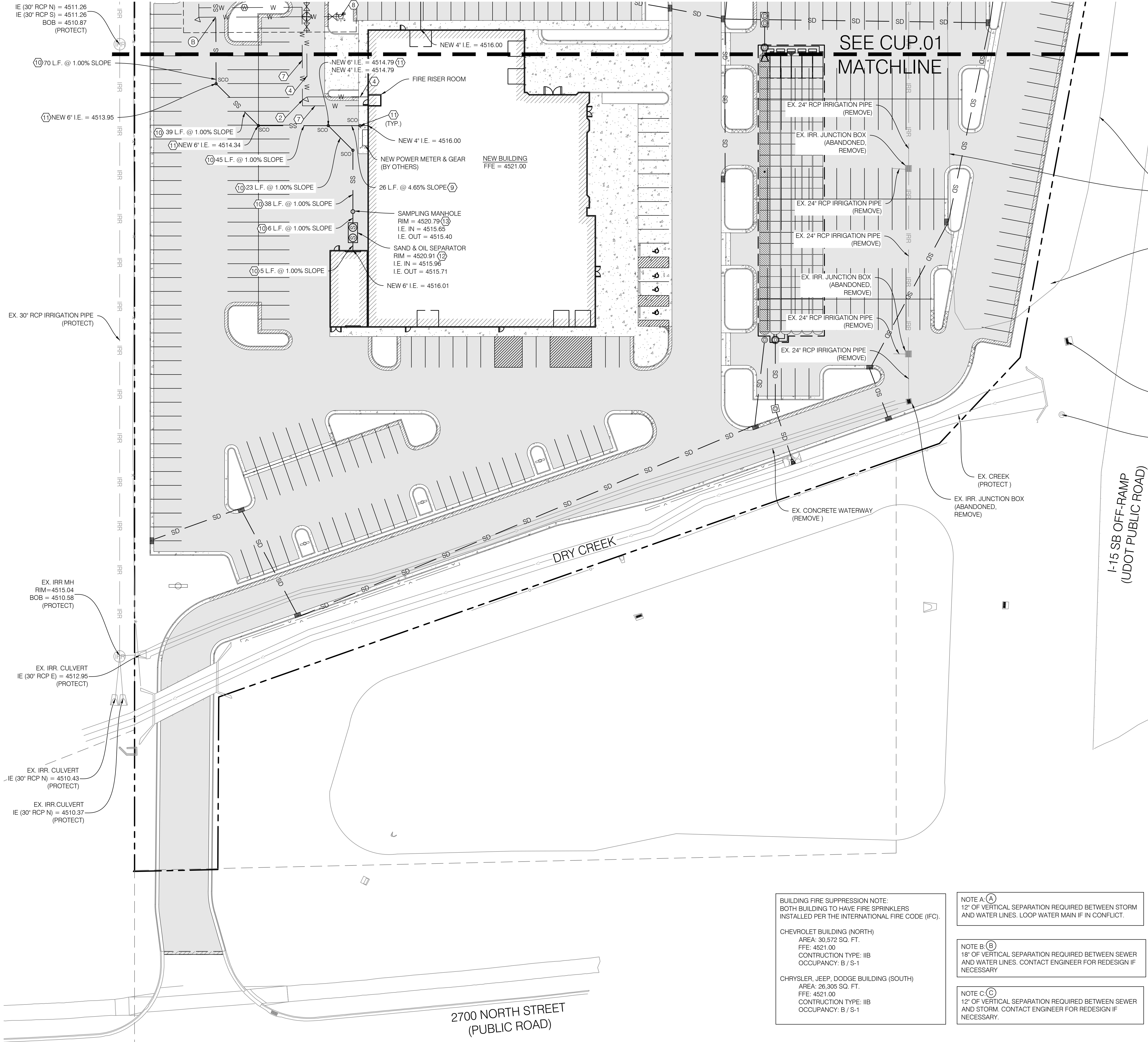
2850 NORTH 350 EAST
SPANISH FORK, UTAH

PROJECT NO. 2512197

UTILITY
PLAN

CUP.01
5 OF 15





SEE CUP.01
MATCHLINE

CONSTRUCTION KEY NOTE REFERENCE		
NO.	DESCRIPTION	DETAIL
①	GATE VALVE PER SFC STDS "W-210" & "W-223"	8/CDT.01
②	THRUST BLOCK PER SFC STDS "W-201"	6/CDT.01
③	8" PVC C-900 WATER MAIN PER SFC STDS.	
④	6" PVC C-900 FIRELINE PER SFC STDS "W-210" & "W-223"	7/CDT.01
⑤	8"x6"x6" WATER CROSS PER SFC STDS.	
⑥	2" WATER METER & VAULT PER SFC STDS "W-216"	8/CDT.01
⑦	2" POLY WATER SERVICE LINE PER SFC STDS "W-216"	8/CDT.01
⑧	FIRE HYDRANT PER SFC STDS "W-210" & "W-223"	7/CDT.01
⑨	4" PVC SDR-35 SEWER LATERAL PER SFC STDS. "SS-305"	1/CDT.03
⑩	6" PVC SDR-35 SEWER LATERAL PER SFC STDS. "SS-305"	1/CDT.03
⑪	SEWER CLEAN OUT (EVERY 50' FOR 4" PIPE, EVERY 100' FOR 6" PIPE)	1/CDT.03
⑫	1250 GAL SAND & OIL SEPARATOR PER OLD CASTLE OR EQUAL	3/CDT.03
⑬	SAMPLING MANHOLE PER SFC STDS. "SS-306"	2/CDT.03

NOTE:
PRIOR TO FABRICATION OR CONSTRUCTION, BEGIN AT THE LOW END OF ALL GRAVITY UTILITY LINES AND VERIFY THE INVERT ELEVATION OF THE POINT OF CONNECTION. NOTIFY ENGINEER FOR REDESIGN IF CONNECTION POINT IS HIGHER THAN SHOWN OR IF ANY UTILITY CONFLICTS OCCUR. GRAVITY CONNECTIONS MUST BE DONE PRIOR TO BUILDING FOOTINGS AND ROUGH PLUMBING ARE CONSTRUCTED.

EXISTING UTILITIES NOTE:
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BUILDING FIRE SUPPRESSION NOTE:
BOTH BUILDING TO HAVE FIRE SPRINKLERS INSTALLED PER THE INTERNATIONAL FIRE CODE (IFC).

CHEVROLET BUILDING (NORTH)
AREA: 30,572 SQ. FT.
FFE: 4521.00
CONSTRUCTION TYPE: IIB
OCCUPANCY: B / S-1

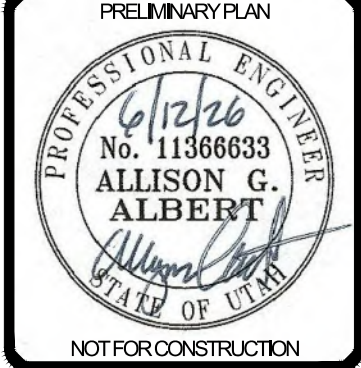
CHRYSLER, JEEP, DODGE BUILDING (SOUTH)
AREA: 26,305 SQ. FT.
FFE: 4521.00
CONSTRUCTION TYPE: IIB
OCCUPANCY: B / S-1

NOTE A. (A)
12" OF VERTICAL SEPARATION REQUIRED BETWEEN STORM AND WATER LINES. LOOP WATER MAIN IF IN CONFLICT.

NOTE B. (B)
18" OF VERTICAL SEPARATION REQUIRED BETWEEN SEWER AND WATER LINES. CONTACT ENGINEER FOR REDESIGN IF NECESSARY

NOTE C. (C)
12" OF VERTICAL SEPARATION REQUIRED BETWEEN SEWER AND STORM. CONTACT ENGINEER FOR REDESIGN IF NECESSARY.

PROJECT NO.	2512197
DATE	08/12/2026
REVISION	1
DESCRIPTION	REVISED PER CITY COMMENTS
BY	AGA
CHECKED BY	SC
DATE	4/24/2026
FIELD CREW	
DATE	
SCALE	2512197 SITE
SCALE	1" = 40'



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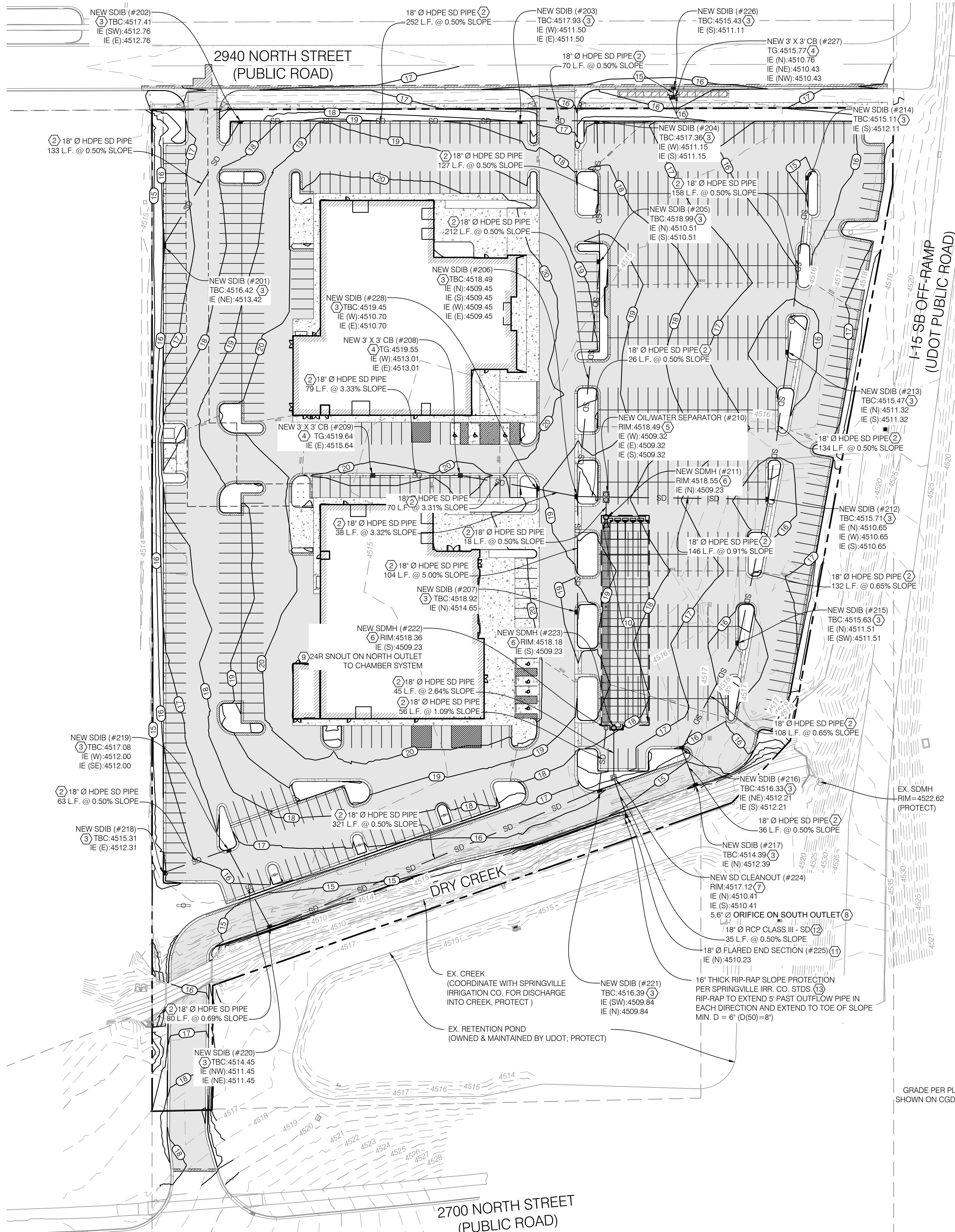
DOUG SMITH AUTOPLEX

2850 NORTH 350 EAST
SPANISH FORK, UTAH

UTILITY
PLAN

CUP.02
6 OF 15

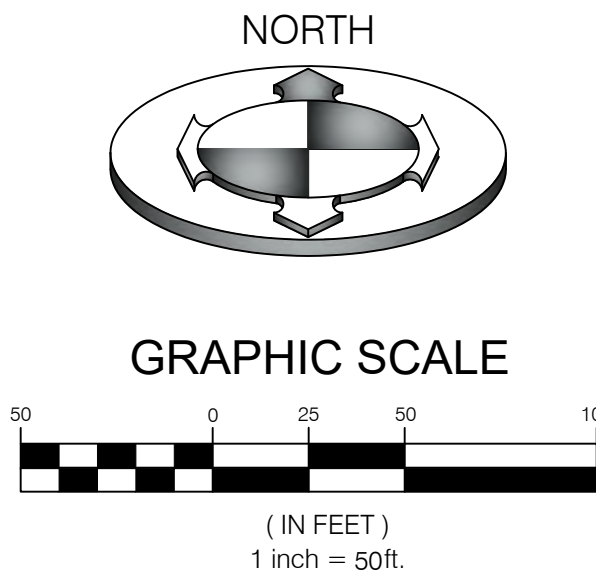




I-15
(UDOT PUBLIC ROAD)

I-15 SB OFF-RAMP
(UDOT PUBLIC ROAD)

NOTE A: (A)
STORMTECH MC-3500 STORMWATER DETENTION CHAMBER SYSTEM
VOLUME: 27,991 C.F.
HWM: 4513.81
TOP OF CHAMBER: 4512.81
BTM OF CHAMBER: 4509.06
IE IN: 4509.23
IE OUT: 4509.21
BTM OF STONE: 4508.31
MIN. PAVEMENT ELEV.: 4514.31
MAX. PAVEMENT ELEV.: 4520.81
(STORMTECH MC-3500 CHAMBERS OR EQUIVALENT TO BE
INSTALLED PER MANUFACTURER'S DRAWING AND SPECIFICATIONS,
TO BE APPROVED BY EOR PRIOR TO CONSTRUCTION.
MINIMUM REQUIRED STORAGE: 26,669 C.F.)



GRADING AND DRAINAGE KEY NOTE REFERENCE		
NO.	DESCRIPTION	DETAIL
1	GRADE SITE TO ELEVATIONS SHOWN ON PLAN	
2	18" DIAMETER HDPE ADS N-12 STORM DRAIN LINE	
3	STORM DRAIN INLET BOX	4/CDT.03
4	3'X3' CATCH BASIN	2/CDT.02
5	1250 GAL. OIL WATER SEPARATOR (OLD CASTLE PRECAST 48 SA OR EQUAL)	
6	STORM DRAIN MANHOLE PER APWA #341.1	
7	STORM DRAIN CLEANOUT BOX PER APWA #331.2	
8	6.2" Ø ORIFICE PLATE	3/CDT.02
9	24R SNOUT	5/CDT.03
10	STORMWATER DETENTION CHAMBERS (STORMTECH MC-3500 OR EQUAL)	1/CDT.04
11	FLARED END SECTION PER SPRINGVILL IRR. CO.	4/CDT.04
12	18" DIAMETER RCP CLASS III SD PIPE PER SPRINGVILL IRR. CO.	4/CDT.04
13	RIP-RAP SLOPE PROTECTION PER SPRINGVILL IRR. CO.	5/CDT.04
14	STORMWATER DETENTION CHAMBERS (STORMTECH SC-740 OR EQUAL)	3/CDT.04
15	8" DIAMETER HDPE ADS N-12 STORM DRAIN LINE PER SF STDS. 'SD-408'	3/CDT.04
16	12" DIAMETER HDPE ADS N-12 STORM DRAIN LINE PER SF STDS. 'SD-408'	3/CDT.04

ALL HDPE/RCP CLASS III PIPE TO HAVE SOIL TIGHT JOINTS

STORM DRAINAGE CALCULATIONS Rational Method (Q=CIA)

Area Identification (A)	Rational Coefficient (C)	C*A
Roof = 58,111	0.9	52299.9 S.F.
Pavement = 322,079	0.9	289871 S.F.
Landscaping = 61,004	0.2	12200.8 S.F.
Sum: 441194 S.F.	0.80321 S.F.	Sum: 354372 S.F.

NOAA ATLAS 14 (25 YEAR STORM)			Allowable Discharge = 15cfs/acre
Time (min)	Intensity (in/hr)	Rainfall Excess (inches)	Perc + Allowable Discharge = 1.62 cfs
15	2.64	0.660	1454
30	1.78	0.890	26283
60	1.10	1.100	5815
120	0.61	1.226	36205
180	0.43	1.302	38449
360	0.25	1.476	43588
720	0.15	1.752	51738
1440	0.09	2.040	60243

Detention Calculations
Detention Chambers
Stormtech MC-3500= 27,991 cf

Pipe Volume
18 in. Pipe Length = 2,304 lf
Volume = 4,072 cf

80th Percentile Retention Volume
Tributary Area, A: 441,194 sf
Impervious Area: 380,190 sf
Imperviousness: 0.86 sf
80th Percentile Storm Depth, d: 0.50 in
Volumetric Runoff Coefficient, Rv: 0.61
Required Water Quality Volume, WQV: 11,239 cf
Provided Water Quality Volume, WQV: 19,403 cf

Granato Method
 $R_v (i < 0.55) = 0.225 * i + 0.05$
 $R_v (i \geq 0.55) = 1.14 * i - 0.371$
 $WQV = R_v * d * A$
YES

Discharge
Percolation rate (P)* 120.00 min/in
Percolation surface area (S) 8,304.59 sf
Allowed Discharge (Q) 0.10 cfs
*Percolation rate assumed based upon hydrological soil group of soils encountered during boring tests by Geotechnical Engineer. Soil Type: Silty Clay; Hydrological Soil Group: D

Is there adequate storage? Storage Provided = 32,063 cf
Req. Storage = 26,669 cf YES

Orifice Design:
The storm runoff will be detained at 0.2 cfs/acre

$Q = C_d A_o \sqrt{2gh}$
Total acreage of development: 10.13 acres
Allowable discharge: 0.15 cfs/acre
Max head: 3.40 ft
Design diameter for new orifice: 5.6 inch

- NOTES:
- NOMINAL ROCK SIZES SHALL BE AT LEAST ONE THIRD (1/3) THE HEIGHT OF THE WALL.
 - IN SANDY OR SILTY SOILS A FILTER FABRIC SHALL BE PLACED BEHIND THE ROCK FACED SLOPE.
 - ROCK MUST BE ANGULAR AND FITTED TOGETHER TO INTERACT WITH ADJACENT ROCKS.
 - A MINIMUM SETBACK OF FOUR (4) FEET FROM BUILDING OR STRUCTURES SHALL BE MAINTAINED ABOVE OR BELOW THE ROCK FACED SLOPE.
 - ROCK PROTECTED SLOPES EXCEEDING 4' IN HEIGHT MUST BE DESIGNED BY AN ENGINEER AND SUBMITTED AND APPROVED BY THE CITY.

NOTE:
THIS DETAIL IS A GENERIC DETAIL AND NOT SPECIFIC TO THE PROJECT SPECIFICATIONS. FOLLOW ALL PROJECT SPECIFIC INFORMATION SHOWN ON THE SITE, UTILITY, GRADING AND DRAINAGE PLANS THAT INCORPORATE AND REFERENCE THIS DETAIL. CONTACT ENGINEER FOR FURTHER DIRECTION IF NEEDED.

TYPICAL ROCK PROTECTED SLOPE 1
SCALE: NTS

PROJECT NO. 2512197

OVERALL DRAINAGE PLAN

CGD.01
7 OF 15

DOUG SMITH AUTOPLEX

2850 NORTH 350 EAST

SPANISH FORK, UTAH

BENCHMARK ENGINEERING & LAND SURVEYING

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SANDY, UTAH 84070 (801) 942-7192

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PROFESSIONAL ENGINEER

6/12/26

No. 11366633

ALLISON G. ALBERT

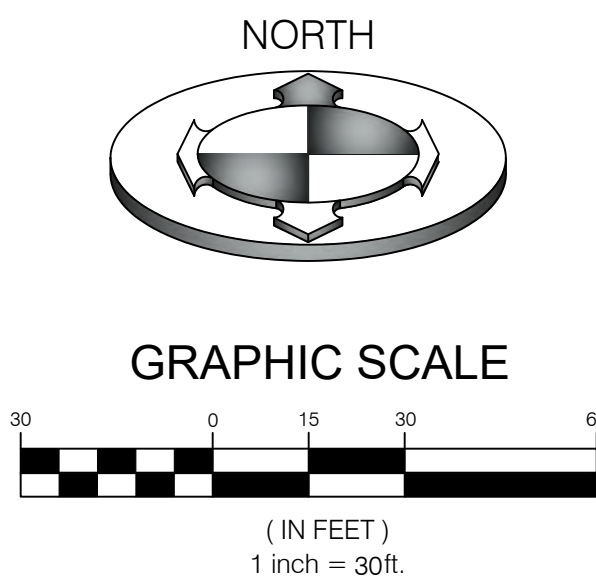
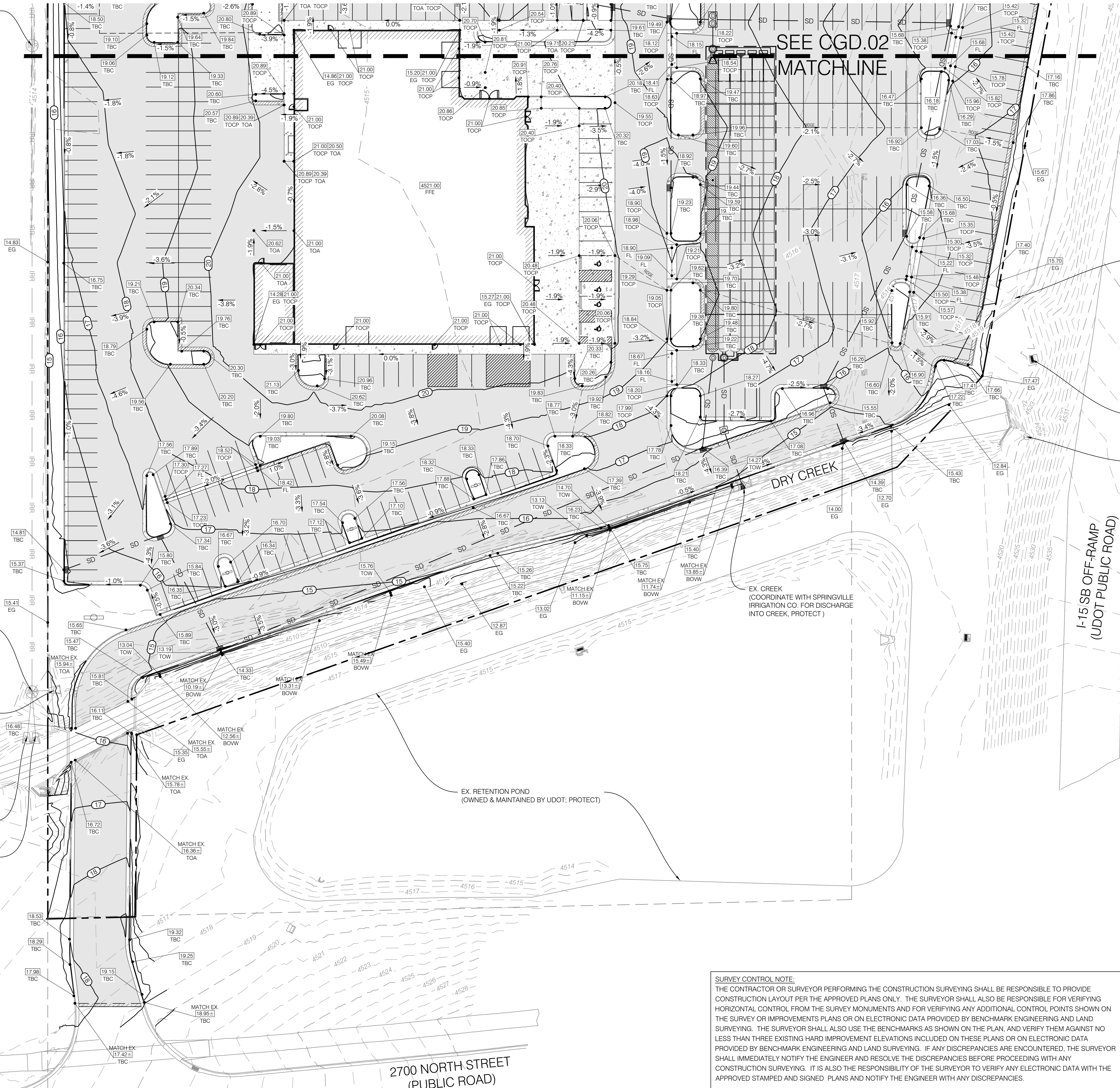
STATE OF UTAH

NOT FOR CONSTRUCTION

SCALE MEASURES - INCH ON FULL SIZE SHEET

ADJUST ACCORDINGLY FOR REDUCED SIZE SHEETS

IE (30' RCP N) = 4511.26
IE (30' RCP S) = 4511.26
BOB = 4510.87
(PROTECT)



I-15
(UDOT PUBLIC ROAD)

BENCHMARK:
SOUTH QUARTER CORNER OF SECTION 6, TOWNSHIP
8 SOUTH, RANGE 3 EAST, SALT LAKE
BASE AND MERIDIAN.
ELEVATION = 4529.670

GRADING AND DRAINAGE KEY NOTE REFERENCE		
NO.	DESCRIPTION	DETAIL
(1)	GRADE SITE TO ELEVATIONS SHOWN ON PLAN	

EXISTING UTILITIES NOTE:
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HOWEVER IT IS THE OWNERS AND CONTRACTOR'S RESPONSIBILITY TO LOCATE
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NOTE:
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BUILDING FOOTINGS AND ROUGH PLUMBING ARE CONSTRUCTED.

NOTE:
SAWCUT WIDTH, LOCATIONS AND TIE-IN ELEVATIONS TO
EXISTING GRADE ARE APPROXIMATE. CONTRACTOR TO FIELD
VERIFY LOCATION, EXTENT OF SAWCUTTING, AND TIE-IN
SLOPES TO EXISTING GRADE PRIOR TO CONSTRUCTION. IT IS
THE INTENT ON THESE PLANS THAT ALL PAVEMENT SHALL TIE
INTO EXISTING GRADE PER SLOPES LISTED ON CGN.01 NOTE 70.
SEE NOTES 66, 70, 82, & 83 ON CGN.01 FOR FURTHER DETAIL.

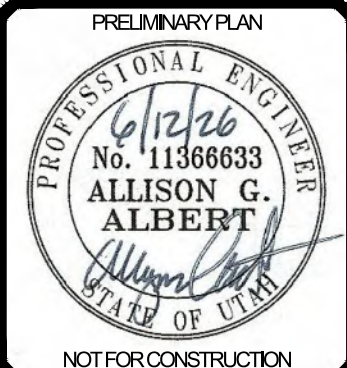
SURVEY CONTROL NOTE:
THE CONTRACTOR OR SURVEYOR PERFORMING THE CONSTRUCTION SURVEYING SHALL BE RESPONSIBLE TO PROVIDE
CONSTRUCTION LAYOUT PER THE APPROVED PLANS ONLY. THE SURVEYOR SHALL ALSO BE RESPONSIBLE FOR VERIFYING
HORIZONTAL CONTROL FROM THE SURVEY MONUMENTS AND FOR VERIFYING ANY ADDITIONAL CONTROL POINTS SHOWN ON
THE SURVEY OR IMPROVEMENTS PLANS OR ON ELECTRONIC DATA PROVIDED BY BENCHMARK ENGINEERING AND LAND
SURVEYING. THE SURVEYOR SHALL ALSO USE THE BENCHMARKS AS SHOWN ON THE PLAN, AND VERIFY THEM AGAINST NO
LESS THAN THREE EXISTING HARD IMPROVEMENT ELEVATIONS INCLUDED ON THESE PLANS OR ON ELECTRONIC DATA
PROVIDED BY BENCHMARK ENGINEERING AND LAND SURVEYING. IF ANY DISCREPANCIES ARE ENCOUNTERED, THE SURVEYOR
SHALL IMMEDIATELY NOTIFY THE ENGINEER AND RESOLVE THE DISCREPANCIES BEFORE PROCEEDING WITH ANY
CONSTRUCTION SURVEYING. IT IS ALSO THE RESPONSIBILITY OF THE SURVEYOR TO VERIFY ANY ELECTRONIC DATA WITH THE
APPROVED STAMPED AND SIGNED PLANS AND NOTIFY THE ENGINEER WITH ANY DISCREPANCIES.



REVISIONS			DESCRIPTION
NO.	DATE	REVISED PER	CITY COMMENTS
1	06/12/2008		

DESIGNED BY	TJB
CHECKED BY	AGG
DATE	4/24/2026
DRAWN BY	2512197 SITE

SCALE MEASURES - HIGH ON FULL SIZE SHEETS ADJUST ACCORDINGLY FOR REDUCED SIZE SHEETS		
0	15	30



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ENGINEERING &
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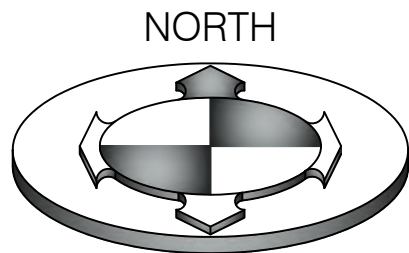
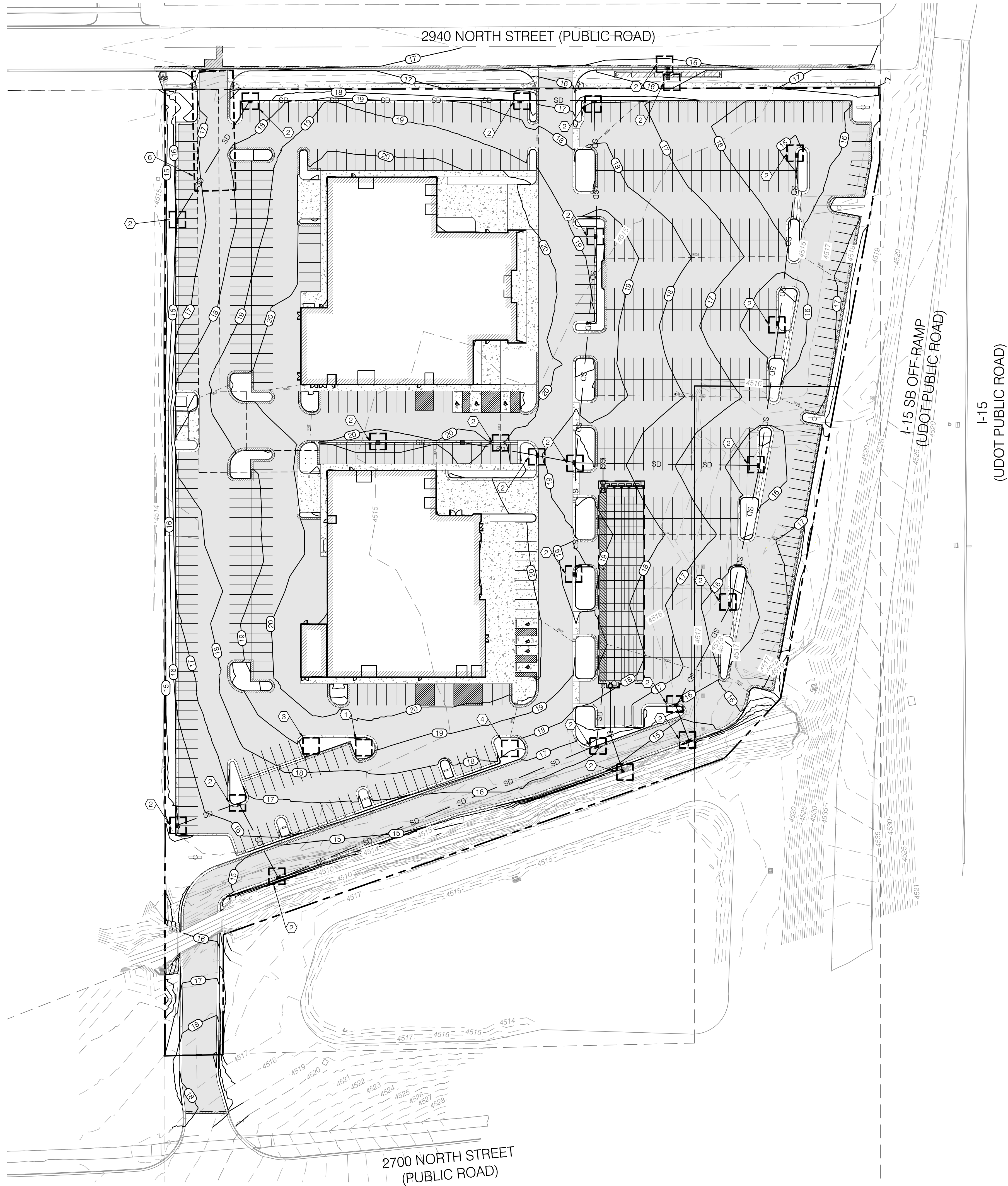
DOUG SMITH AUTOPLEX

2850 NORTH 350 EAST
SPANISH FORK, UTAH

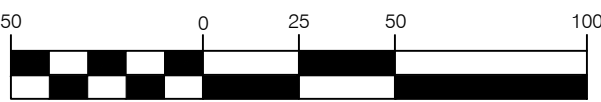
PROJECT NO. 2512197

**GRADING &
DRAINAGE
PLAN**

CGD.03
9 OF 15



GRAPHIC SCALE



SWPPP KEY NOTES REFERENCE

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

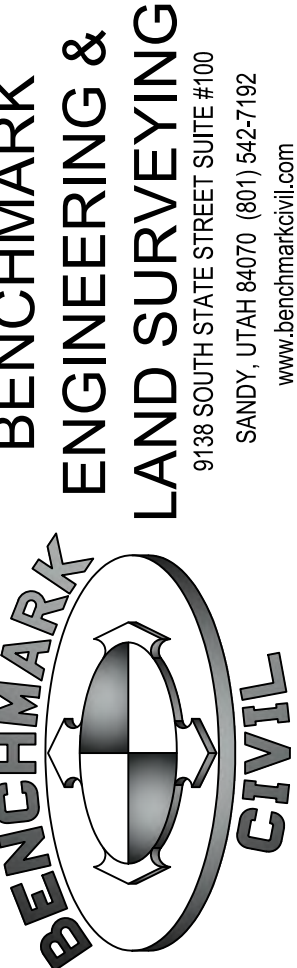
NO	DESCRIPTION	DETAIL
1	CONCRETE WASTE MANAGEMENT	1/CEP.02
2	INLET PROTECTION WATTLE	2/CEP.02
3	MATERIALS STORAGE	3/CEP.02
4	PORTABLE TOILETS	4/CEP.02
5	SILT FENCE	6/CEP.02
6	TEMPORARY CONSTRUCTION ENTRANCE	7/CEP.02

NOTE:
CONTRACTOR SHALL INSTALL EROSION CONTROLS (SILT FENCES, STRAW BALES, ETC) AS REQUIRED BY REGULATORY AGENCIES. SAID CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH AGENCY STANDARDS AND FOLLOWING BEST MANAGEMENT PRACTICES FOR ACTUAL PLACEMENT ON SITE. STRAW BALES SHOWN ON THESE DRAWINGS ARE INTENDED AS A MINIMUM REQUIREMENT. ADDITIONAL CONTROLS REQUESTED BY AGENCY INSPECTORS SHALL BE REQUIRED. DUST CONTROL SHALL BE PROVIDED AT ALL TIMES, AT THE CONTRACTOR'S EXPENSE, TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY.

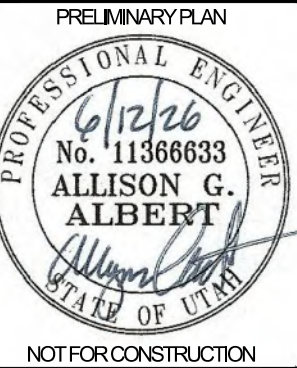


DOUG SMITH AUTOPLEX

2850 NORTH 350 EAST
SPANISH FORK, UTAH



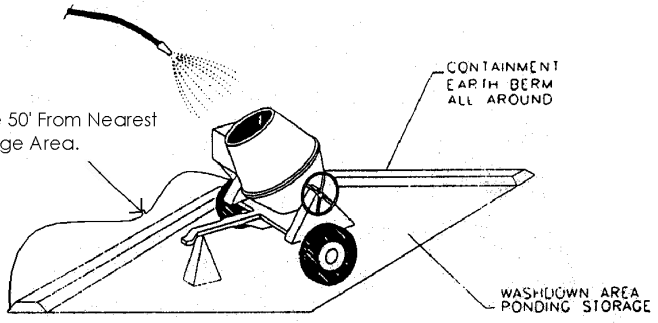
938 SOUTH STATE STREET SUITE #100
SANDY, UTAH 84070 (801) 542-7192
www.benchmarkcivil.com



PROJECT NO.	2512197
PROJECT NAME	EROSION CONTROL PLAN
DATE	4/24/2026
DRAWN BY	2512197 SITE
CHECKED BY	AGA
DATE	08/12/2025
REVISIONS	
DESCRIPTION	

SCALE MEASURES HINGED ON FULL SIZE SHEETS
ADJUST ACCORDANCE FOR REDUCED SIZE SHEETS

BMP: Concrete Waste Management



Locate 50' from Nearest Drainage Area.

CONTAINMENT CAP IN BERM ALL AROUND

WASHING AREA PONDING STORAGE

DESCRIPTION:
Prevent or reduce the discharge of pollutants to storm water from concrete waste by conducting washout off-site, performing on-site washout in a designated area, and training employees and subcontractors.

APPLICATIONS:
This technique is applicable to all types of sites.

INSTALLATION/APPLICATION CRITERIA:

- Store dry and wet materials under cover, away from drainage areas.
- Avoid mixing excess amounts of fresh concrete or cement on-site.
- Perform washout of concrete trucks off-site or in designated areas only.
- Do not wash out concrete trucks into storm drains, open ditches, streets, or streams.
- Do not allow excess concrete to be dumped on-site, except in designated areas.
- When washing concrete to remove fine particles and expose the aggregate, avoid creating runoff by draining the water within a bermed or level area. (See Earth Berm Barrier Information Sheet.)
- Train employees and subcontractors in proper concrete waste management.

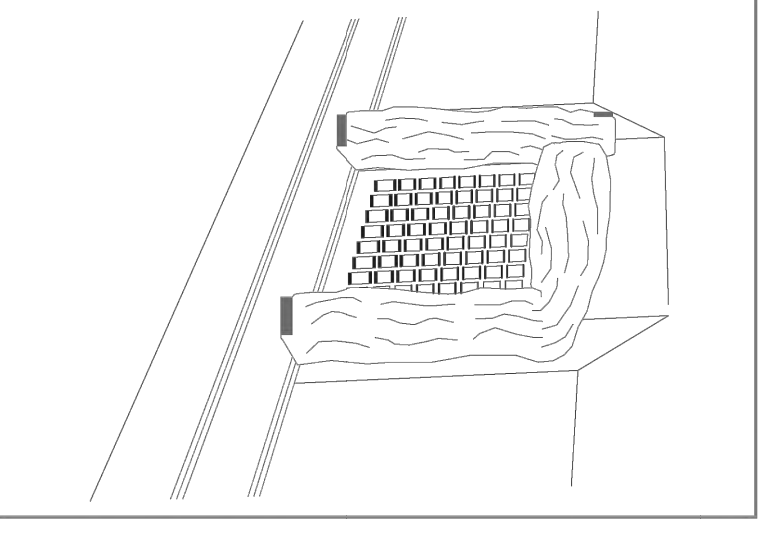
LIMITATIONS:

- Off-site washout of concrete wastes may not always be possible.

MAINTENANCE:

- Inspect subcontractors to ensure that concrete wastes are being properly managed.
- If using a temporary pit, dispose hardened concrete on a regular basis.

BMP: Inlet Protection – Wattle



IP-W
CONSTRUCTION

DESCRIPTION:
Sediment barrier erected around storm drain inlet.

APPLICATION:
Construct at storm drainage inlets located down-gradient of areas to be disturbed by construction.

INSTALLATION/APPLICATION CRITERIA:

- ◆ Provide up-gradient sediment controls, such as silt fence during construction of inlet
- ◆ When construction of curb and gutter and roadways is complete, install gravel filled wattles around perimeter of inlet

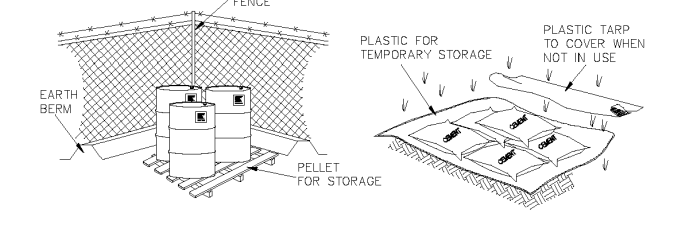
LIMITATIONS:

- ◆ Recommended maximum contributing drainage area of one acre
- ◆ Requires shallow slopes adjacent to inlet

MAINTENANCE:

- ◆ Inspect inlet protection following storm event and at a minimum of once every 14 days.
- ◆ Remove accumulated sediment when it reaches 4 inches in depth.
- ◆ Look for bypassing or undercutting and repair or realign as needed.

BMP: Materials Storage



SECURITY FENCE

EARTH BERM

PLASTIC FOR TEMPORARY STORAGE

PLASTIC TARP TO COVER WHEN NOT IN USE

COLLECT FOR STORAGE

DESCRIPTION:
Controlled storage of on-site materials.

APPLICATION:

- Storage of hazardous, toxic, and all chemical substances.
- Any construction site with outside storage of materials.

INSTALLATION/APPLICATION CRITERIA:

- Designate a secured area with limited access as the storage location. Ensure no waterways or drainage paths are nearby.
- Construct compacted earthen berm (See Earth Berm Barrier Information Sheet), or similar perimeter containment around storage location for impoundment in the case of spills.
- Ensure all on-site personnel utilize designated storage area. Do not store excessive amounts of material that will not be utilized on site.
- For active use of materials away from the storage area ensure materials are not set directly on the ground and are covered when not in use. Protect storm drainage during use.

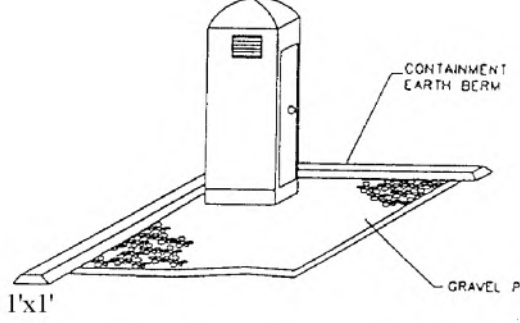
LIMITATIONS:

- Does not prevent contamination due to mishandling of products.
- Spill Prevention and Response Plan still required.
- Only effective if materials are actively stored in controlled location.

MAINTENANCE:

- Inspect daily and repair any damage to perimeter impoundment or security fencing.
- Check materials are being correctly stored (i.e. standing upright, in labeled containers, lightly capped) and that no materials are being stored away from the designated location.

BMP: Portable Toilets



CONTAINMENT CAP IN BERM

GRAVEL PAD

DESCRIPTION:
Temporary on-site sanitary facilities for construction personnel.

APPLICATION:
All sites with no permanent sanitary facilities or where permanent facility is too far from activities.

INSTALLATION/APPLICATION CRITERIA:

- Locate portable toilets in convenient locations throughout the site.
- Prepare level, gravel surface and provide clear access to the toilets for servicing and for on-site personnel.
- Construct earth berm perimeter (See Earth Berm Barrier Information Sheet), control for spill/protection leak.

LIMITATIONS:
No limitations.

MAINTENANCE:

- Portable toilets should be maintained in good working order by licensed service with daily observation for leak detection.
- Regular waste collection should be arranged with licensed service.
- All waste should be deposited in sanitary sewer system for treatment with appropriate agency approval.

BMP: Spill Clean-Up



DESCRIPTION:
Practices to clean-up leakage/spillage of on-site materials that may be harmful to receiving waters.

APPLICATION:
All sites

GENERAL:

- Store controlled materials within a storage area.
- Educate personnel on prevention and clean-up techniques.
- Designate an Emergency Coordinator responsible for employing preventative practices and for providing spill response.
- Maintain a supply of clean-up equipment on-site and post a list of local response agencies with phone numbers.

METHODS:

- Clean-up spills/leaks immediately and remediate cause.
- Use as little water as possible. NEVER HOSE DOWN OR BURY SPILL.
- CONTAMINATED MATERIAL.
- Use rags or absorbent material for clean-up. Excavate contaminated soils.
- Dispose of clean-up material and soil as hazardous waste.
- Document all spills with date, location, substance, volume, actions taken and other pertinent data.
- Contact local Fire Department and State Division of Environmental Response and Remediation (Phone #536-4100) for any spill of reportable quantity.

CONCRETE WASTE MANAGEMENT 1

SCALE: NTS

INLET PROTECTION WATTLE 2

SCALE: NTS

MATERIALS STORAGE 3

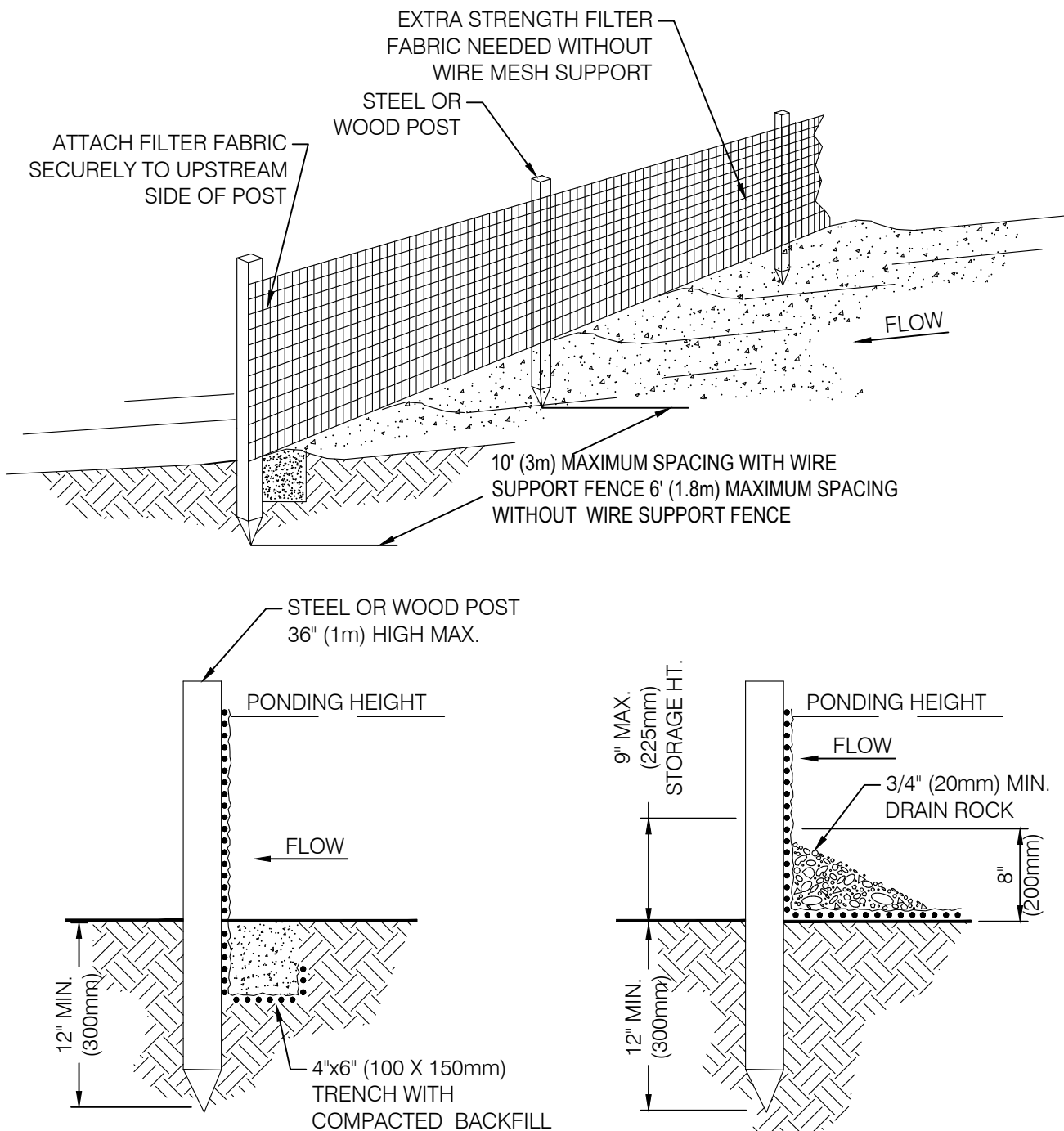
SCALE: NTS

PORTABLE TOILETS 4

SCALE: NTS

SPILL CLEAN UP 5

SCALE: NTS



NOTES:

1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

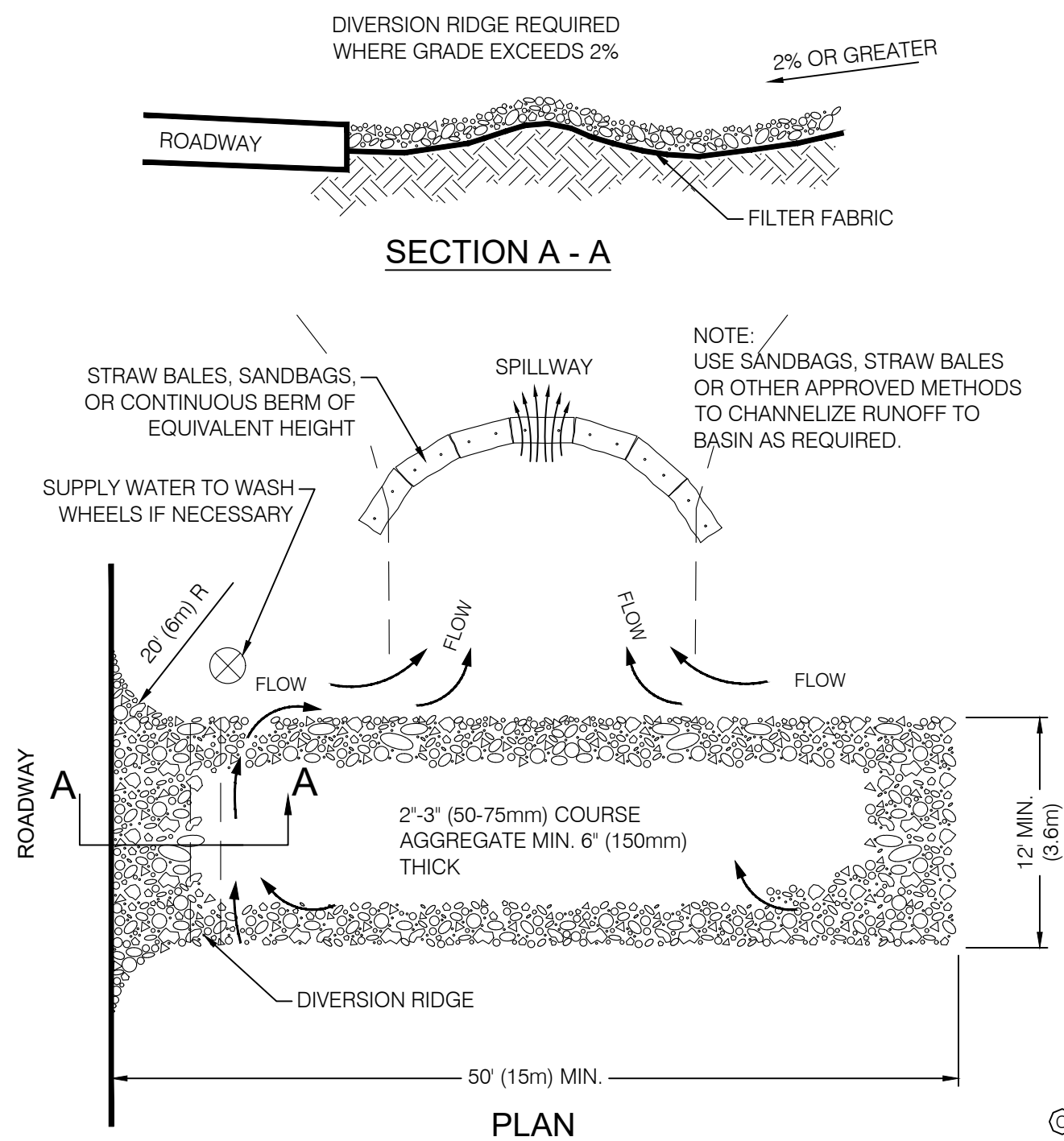
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.

3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

REF. FROM 1994 JOHN McCULLAH

SILT FENCE 6

SCALE: NTS



NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.

2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

REF. FROM 1994 JOHN McCULLAH

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT 7

SCALE: NTS



"SWPPP INFORMATION" MUST BE DISPLAYED PROMINENTLY ACROSS THE TOP OF THE SIGN, AS SHOWN IN THE DETAIL.

SIGN TO BE CONSTRUCTED OF A RIGID MATERIAL, SUCH AS PLYWOOD OR OUTDOOR SIGN BOARD. SIGN MUST BE CONSTRUCTED IN A MANNER TO PROTECT DOCUMENTS FROM DAMAGE DUE TO WEATHER (WIND, SUN, MOISTURE, ETC.)

NOTES:

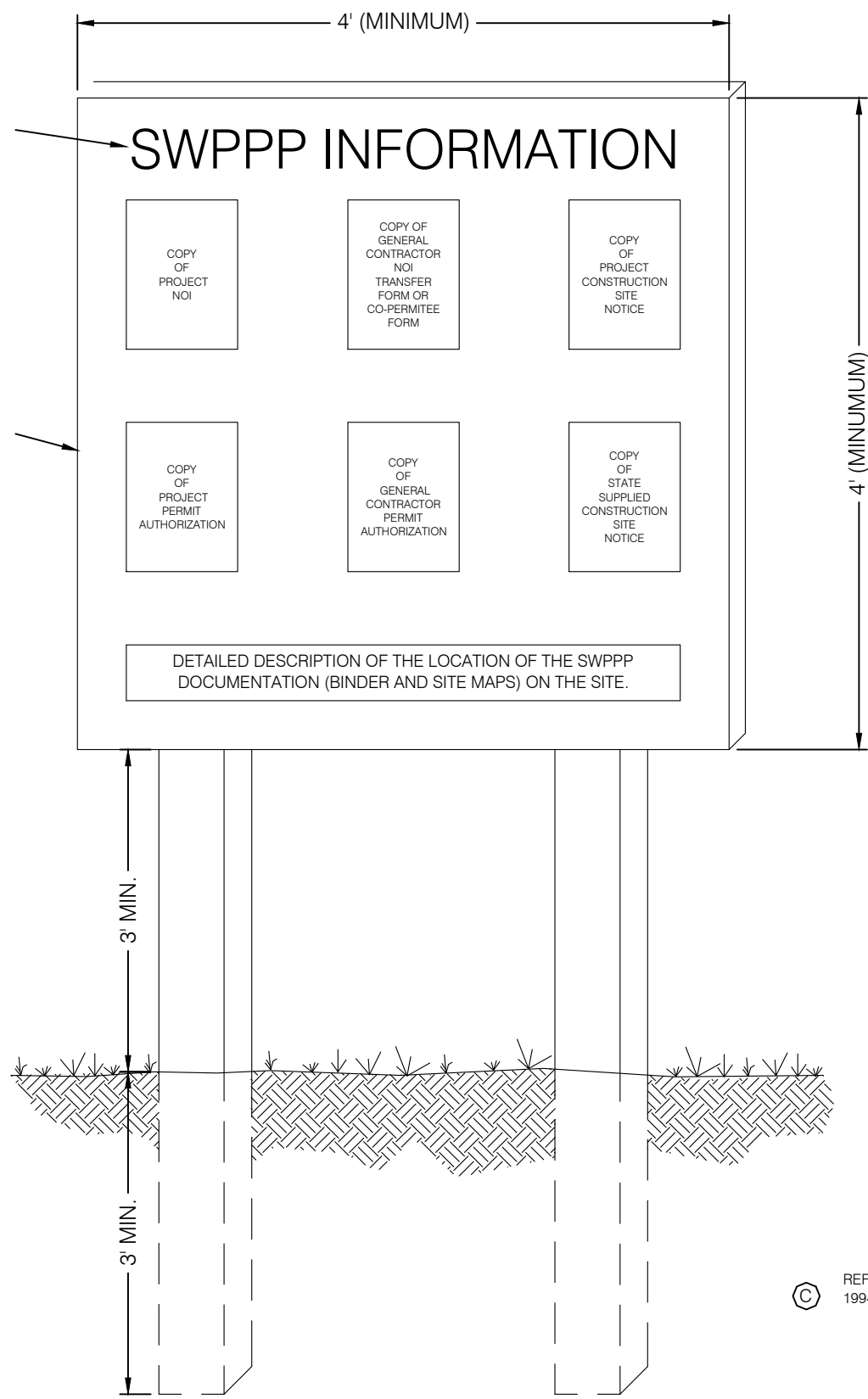
1) THE SWPPP INFORMATION SIGN MUST BE LOCATED NEAR THE CONSTRUCTION EXIT OF THE SITE, SUCH THAT IT IS ACCESSIBLE AND VIEWABLE BY THE GENERAL PUBLIC, BUT NOT OBSTRUCTING VIEWS AS TO CAUSE A SAFETY HAZARD.

2) ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE TO TERMINATION (NOT) IS FILED FOR THE PERMIT.

3) CONTRACTOR SHALL POST OTHER STORM WATER AND/OR EROSION AND SEDIMENT CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE GOVERNING AGENCY.

4) SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY THE GOVERNING AGENCY.

5) CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY IF THE SWPPP INFORMATION SIGN.



REF. FROM 1994 JOHN McCULLAH

SWPPP INFORMATION SIGN 8

SCALE: NTS

CREW/KEY: TJB

DATE: 08/12/2018

REVISIONS PER CITY COMMENTS

1

AGG

AGG

SC

DATE: 4/24/2026

SHEET: 25/2197

SITE

SCALE MEASURES: INCH ON FULL SIZE SHEETS

ADJUST ACCORDING FOR REDUCED SIZE SHEETS

PROFESSIONAL ENGINEER

6/12/26

No. 11366633

ALLISON G. ALBERT

STATE OF UTAH

NOT FOR CONSTRUCTION

BENCHMARK

ENGINEERING & LAND SURVEYING

9138 SOUTH STATE STREET SUITE #100

SANDY, UTAH 84070 (801) 542-7192

www.benchmarkcivil.com

DOUG SMITH AUTOPLEX

2850 NORTH 350 EAST

SPANISH FORK, UTAH

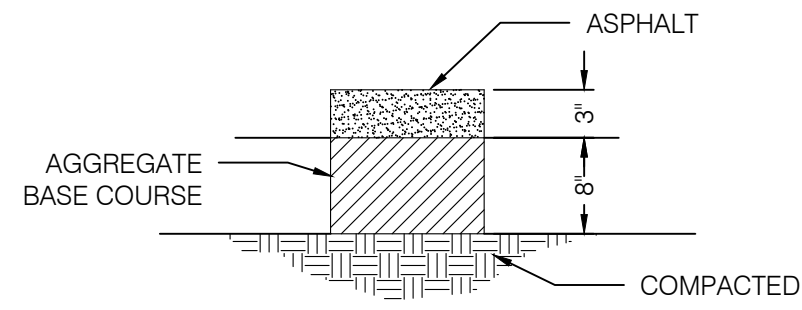
PROJECT NO. 2512197

EROSION CONTROL DETAILS

CEP.02

11 OF 15

ALTERNATE: STANDARD
CONCRETE 5"
GRAVEL BASE 4"

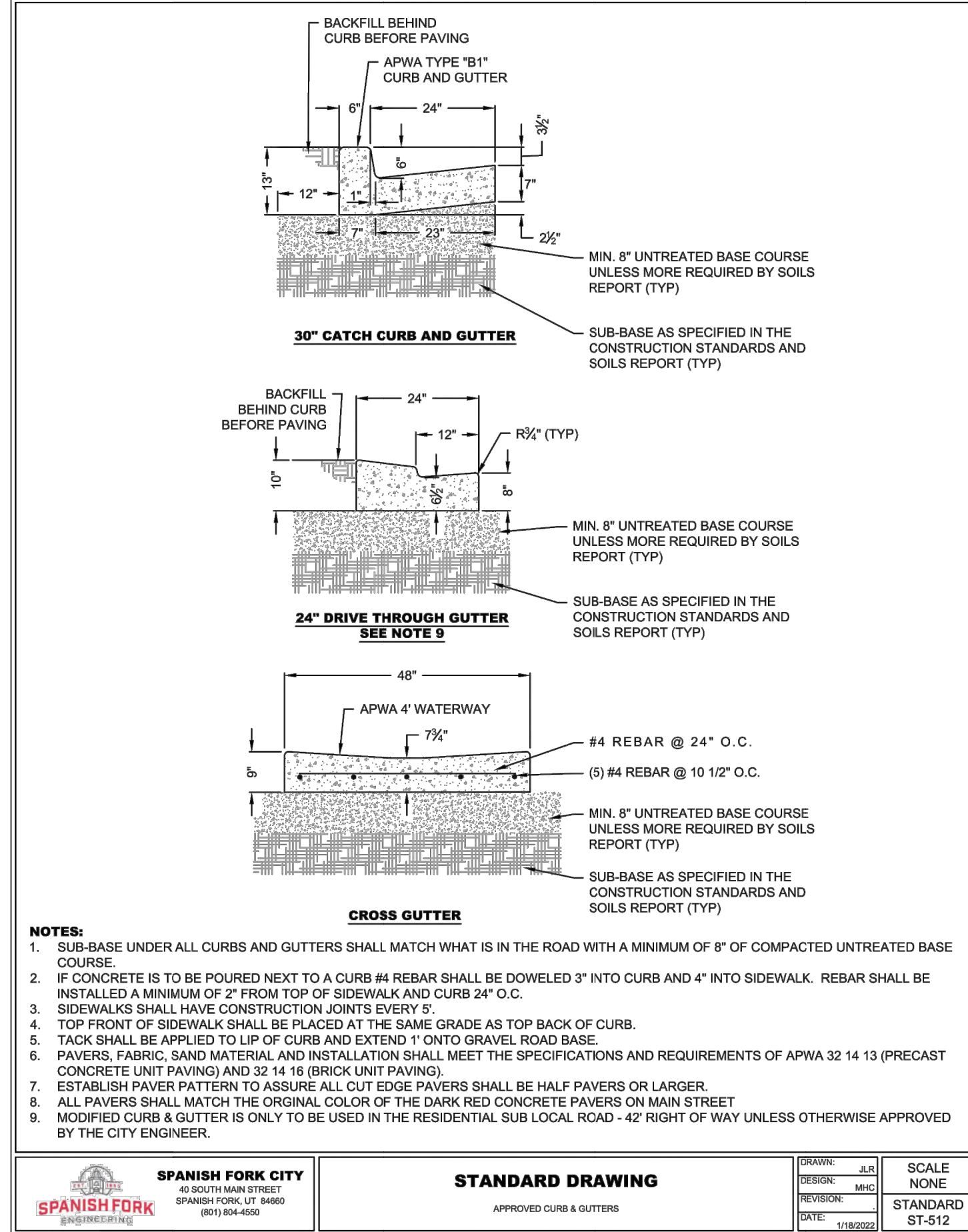


STANDARD DUTY PAVEMENT

NOTE:
1. FOR REINFORCEMENT DESIGN OF PCC PAVEMENT SECTIONS SEE STRUCTURAL ENGINEER
2. FOR DOWEL DESIGN OF PCC PAVEMENT SECTIONS SEE GEOTECHNICAL ENGINEER.

PAVEMENT SECTIONS ①

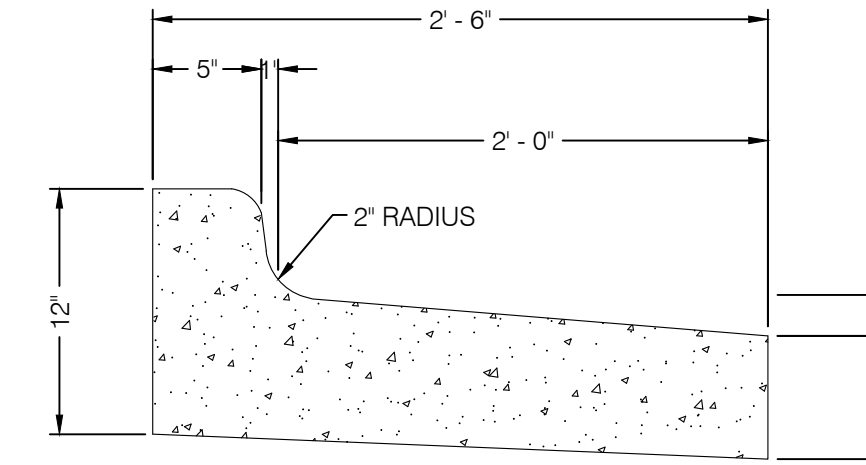
SCALE: NTS



30" CATCH CURB & GUTTER DETAIL ②

SCALE: NTS

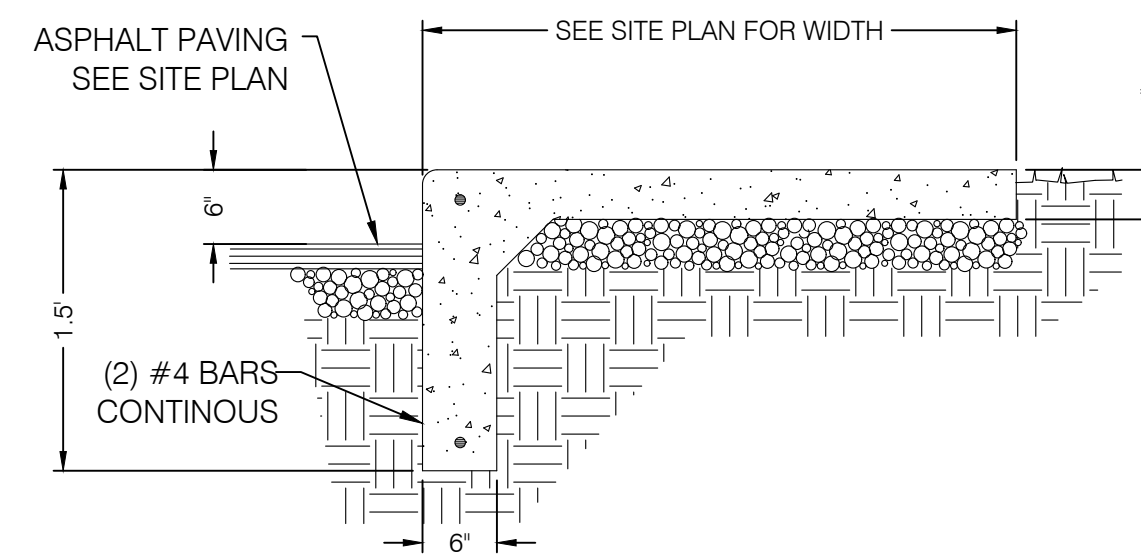
NOTE: 6" MIN. OF UNTREATED BASE COURSE REQ'D UNDER CURB AND GUTTER. COMPACT TO 95% ASSHTO T-180 - METHOD D.



NOTE:
THIS DETAIL IS A GENERIC DETAIL AND NOT SPECIFIC TO THE PROJECT SPECIFICATIONS. FOLLOW ALL PROJECT SPECIFIC INFORMATION SHOWN ON THE SITE, UTILITY, GRADING AND DRAINAGE PLANS THAT INCORPORATE AND REFERENCE THIS DETAIL. CONTACT ENGINEER FOR FURTHER DIRECTION IF NEEDED.

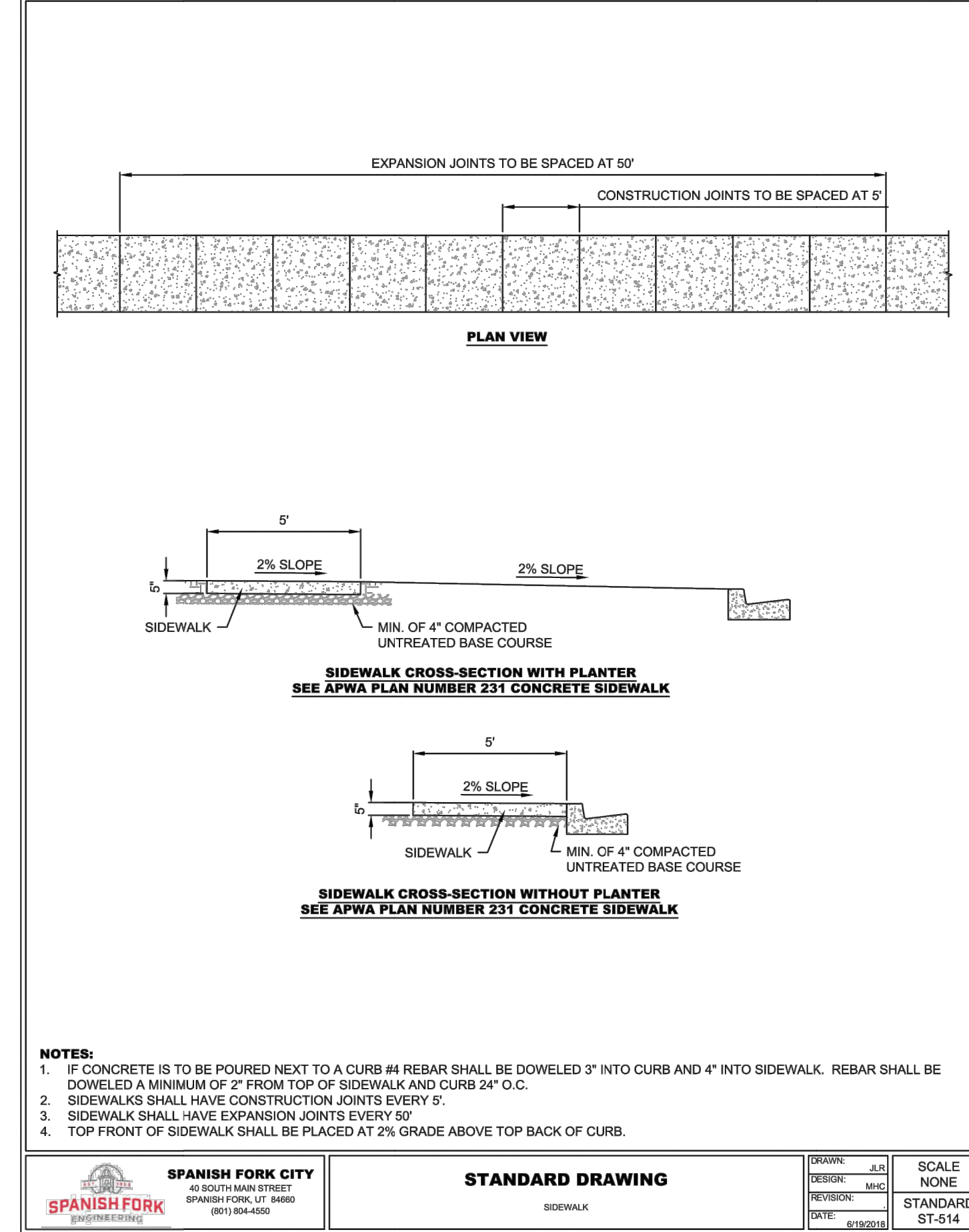
30" RELEASE CURB & GUTTER ③

SCALE: NTS



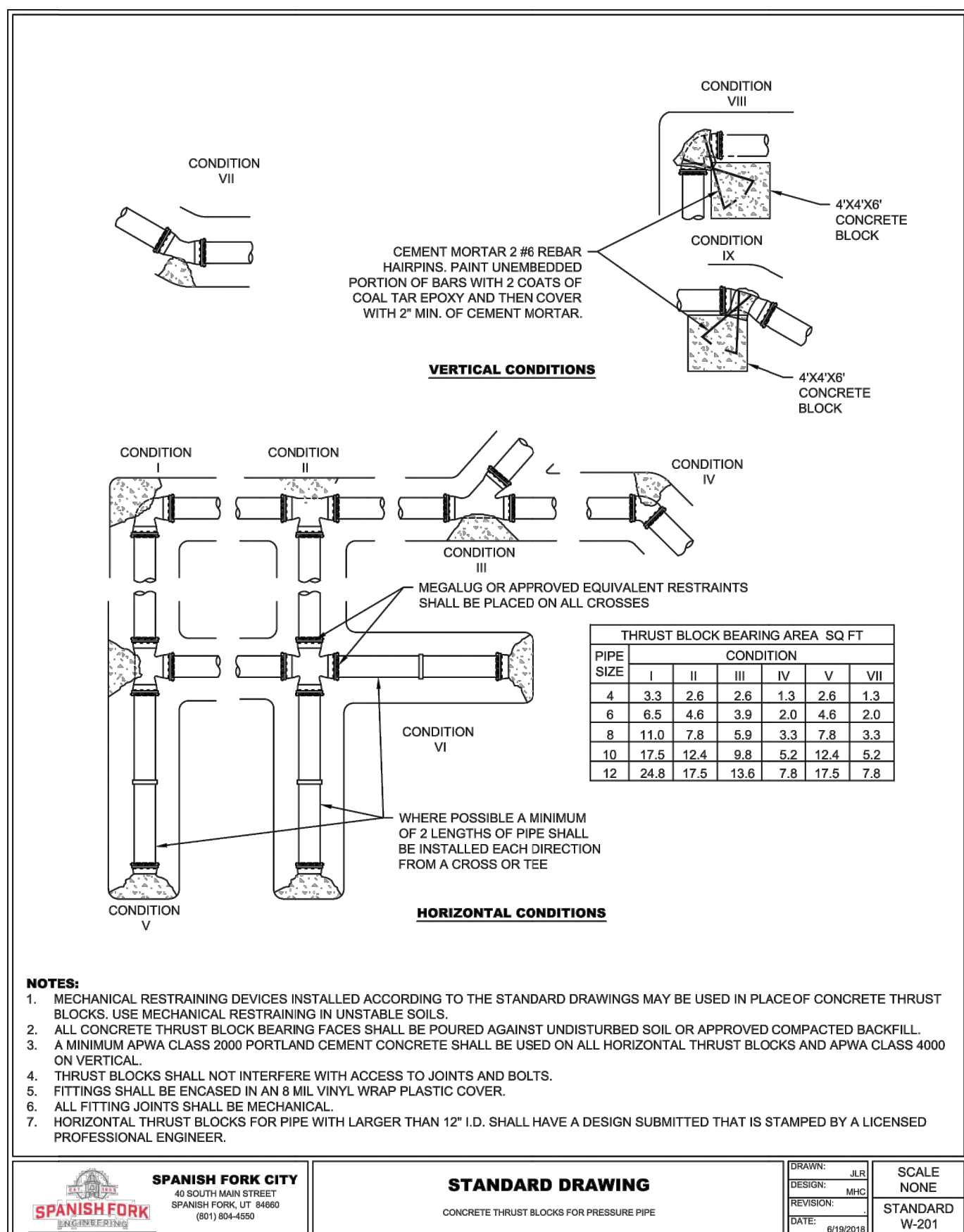
INTEGRAL SIDEWALK & CURB ④

SCALE: NTS



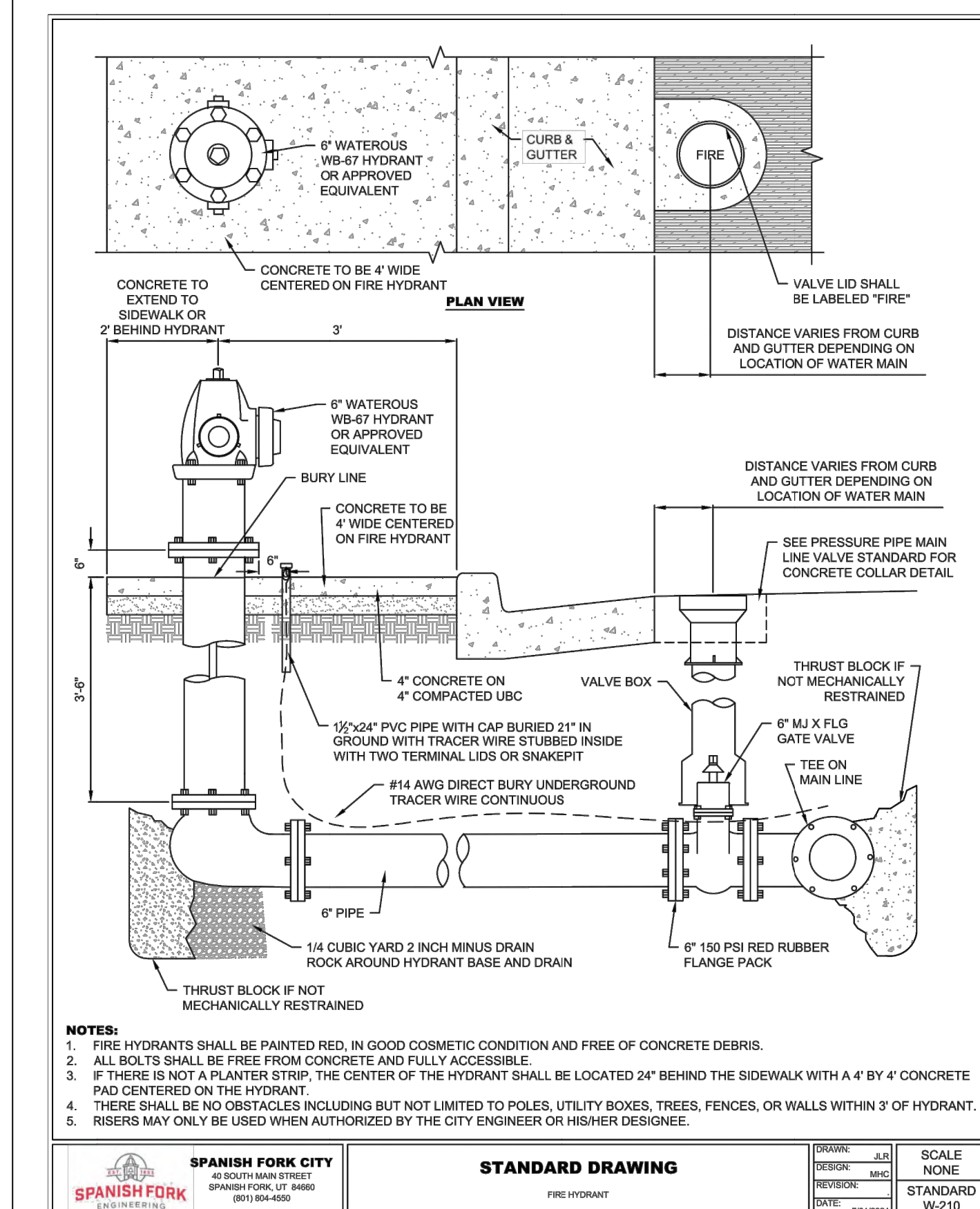
STANDARD SIDEWALK ⑤

SCALE: NTS



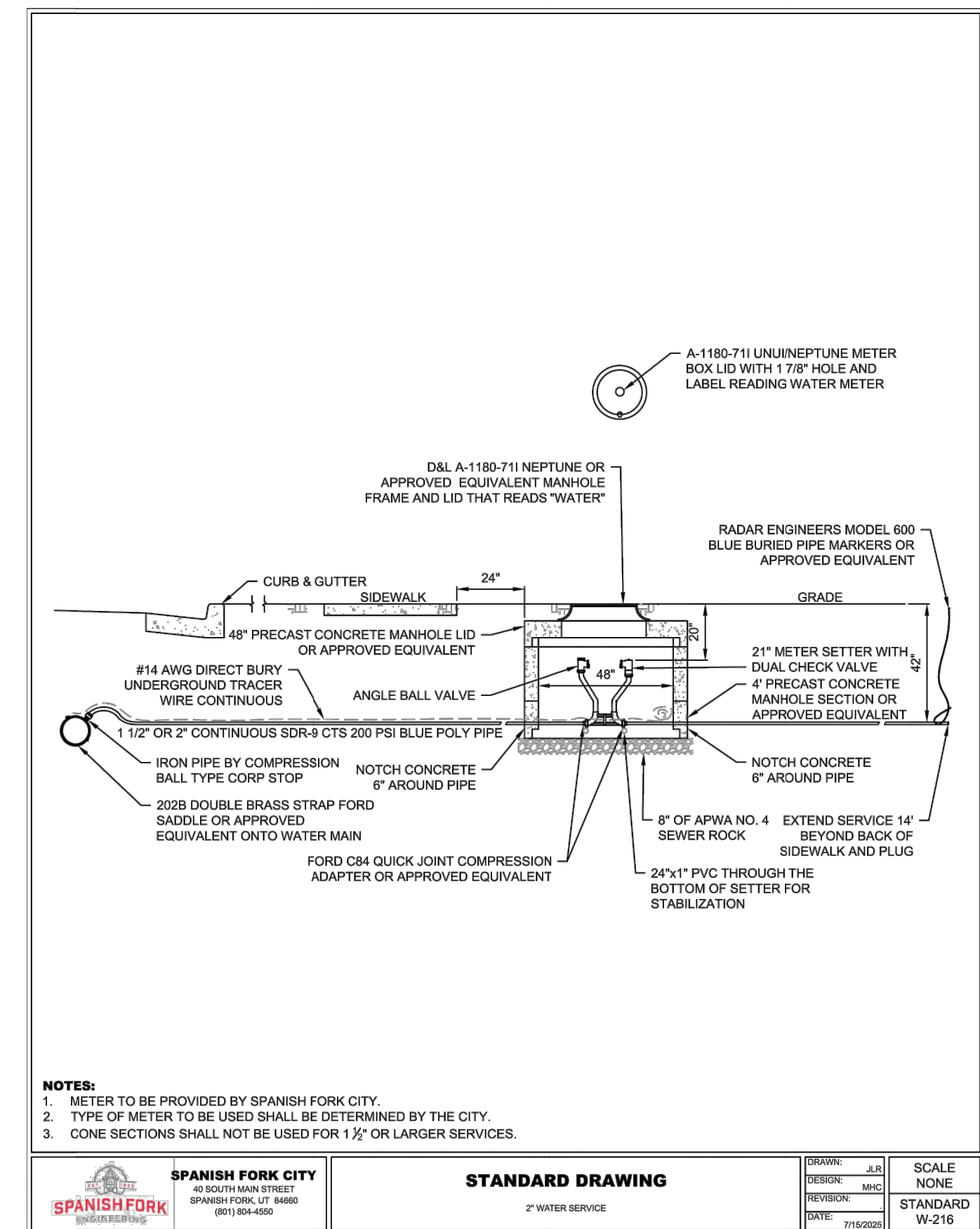
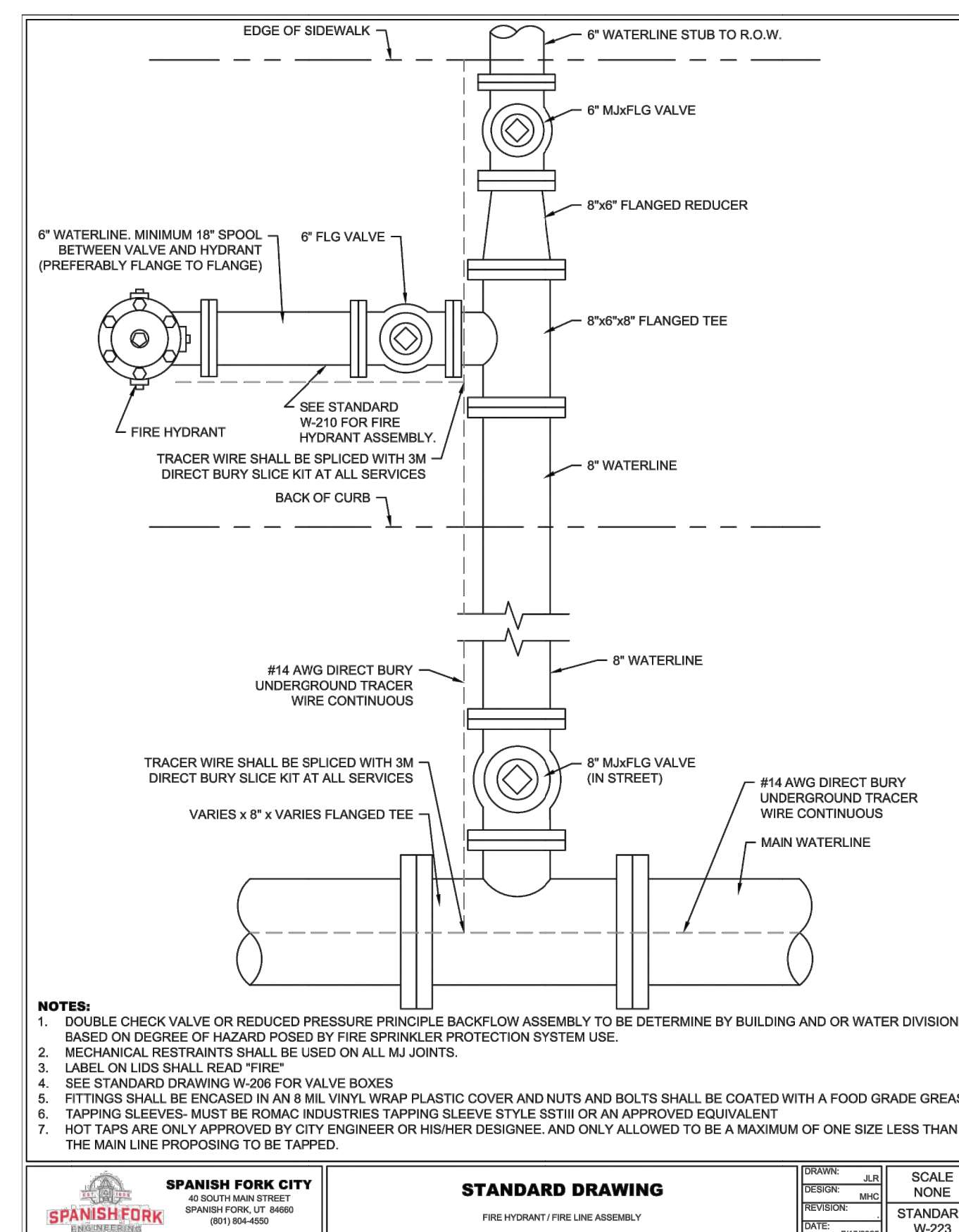
CONCRETE THRUST BLOCK ⑥

SCALE: NTS



FIRE HYDRANT ⑦

SCALE: NTS



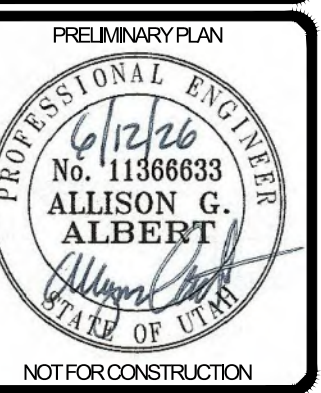
2" WATER SERVICE LINE ⑧

SCALE: NTS

NO.	DATE	DESCRIPTION
1	08/12/2025	REVISED PER CITY COMMENTS

DESIGNED BY	AG
CHECKED BY	SC
DATE	4/24/2026
SCALE	25/12/97 SITE

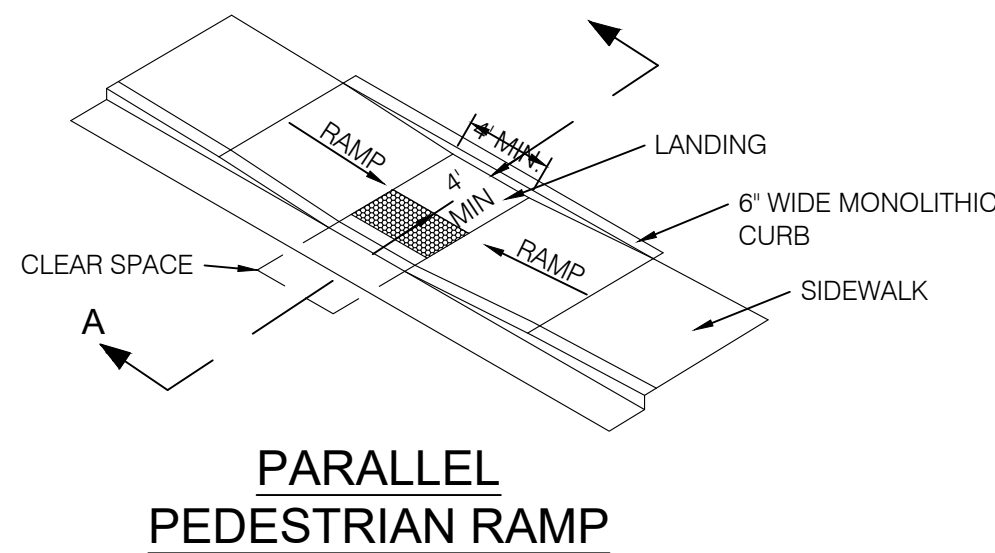
SCALE MEASURES: HIGH ON FULL SIZE SHEETS
ADJUST ACCORDINGLY FOR REDUCED SIZE SHEETS



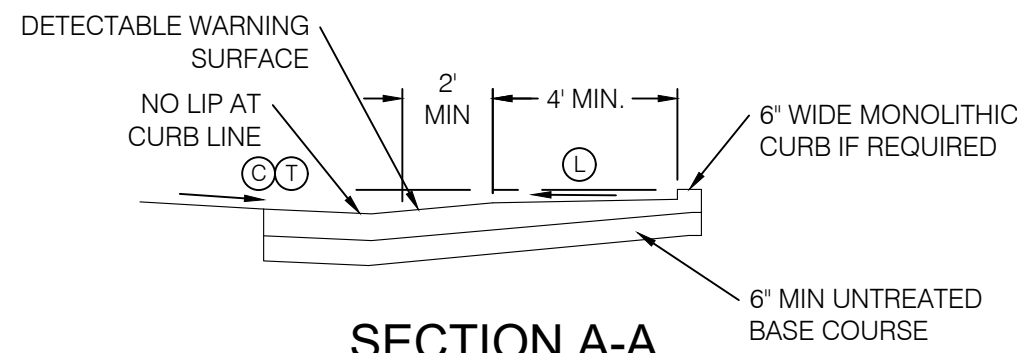
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DOUG SMITH AUTOPLEX
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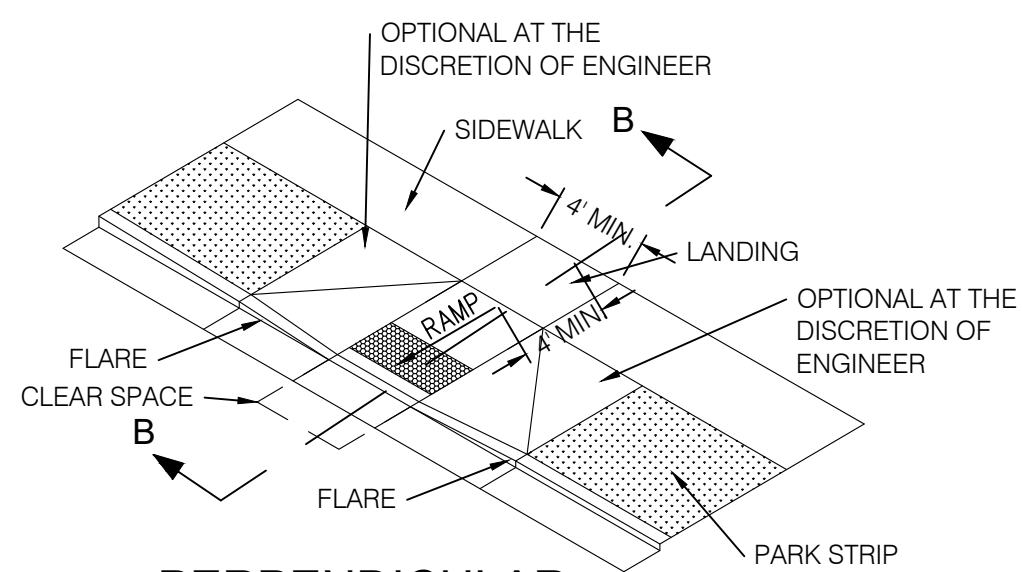
PROJECT NO. 2512197
DETAIL SHEET
CDT.01
12 OF 15



**PARALLEL
PEDESTRIAN RAMP**

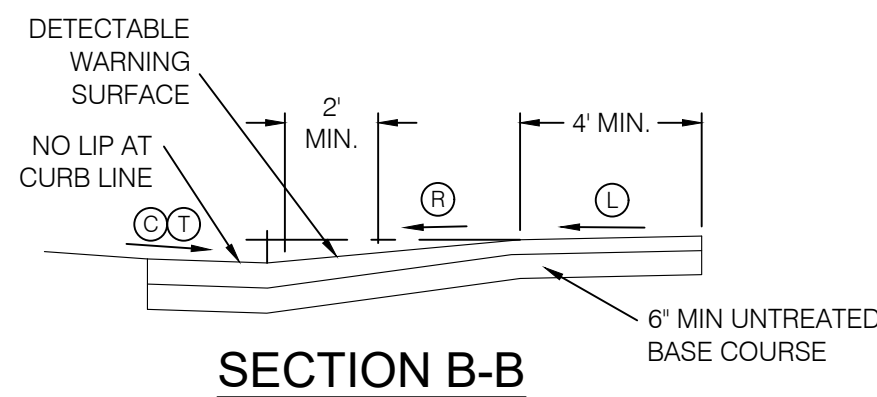


SECTION A-A

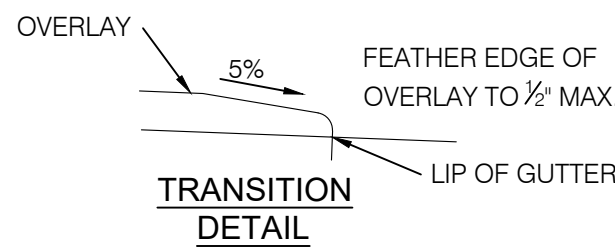


**PERPENDICULAR
PEDESTRIAN RAMP**

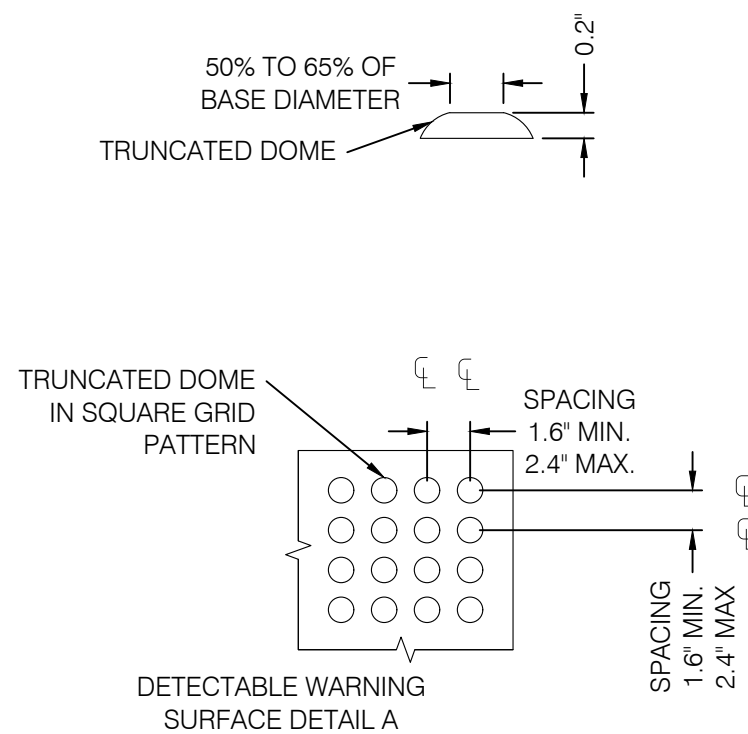
FLARE IS ACCEPTABLE IN LIEU OF FULL HEIGHT CURB SEE LOCAL AGENCY REQUIREMENTS



SECTION B-B

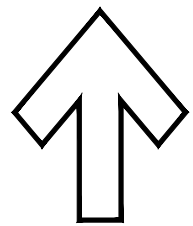


**TRANSITION
DETAIL**



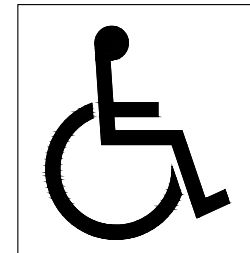
**DETECTABLE WARNING
SURFACE DETAIL A**

THIS DRAWING PRODUCED BY
THE U.S. ACCESS BOARD



**DIRECTION OF TRAVEL
OR APPROACH**

THIS DRAWING PRODUCED BY
THE U.S. ACCESS BOARD



**INTERNATIONAL SYMBOL
OF ACCESSIBILITY**

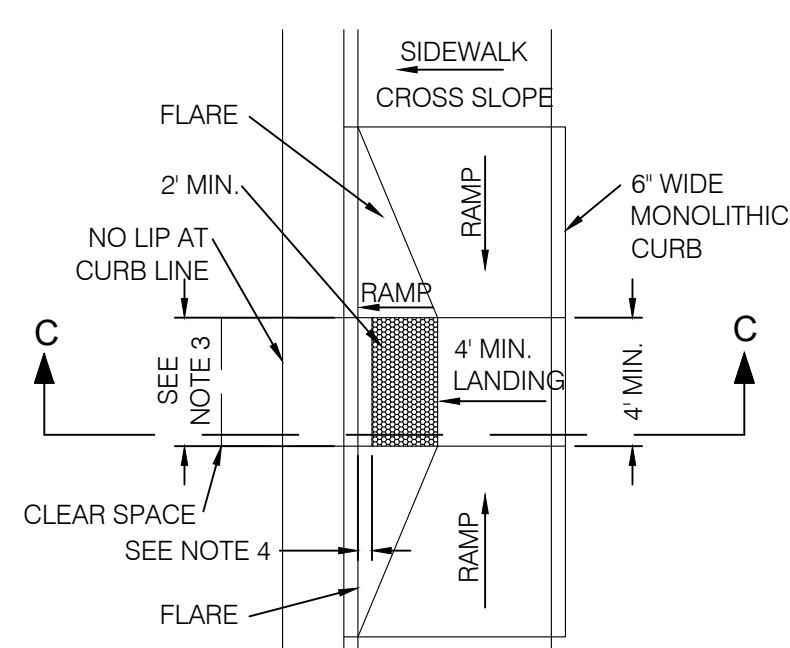
THIS DRAWING PRODUCED BY
THE U.S. ACCESS BOARD

STRIPING SYMBOLS

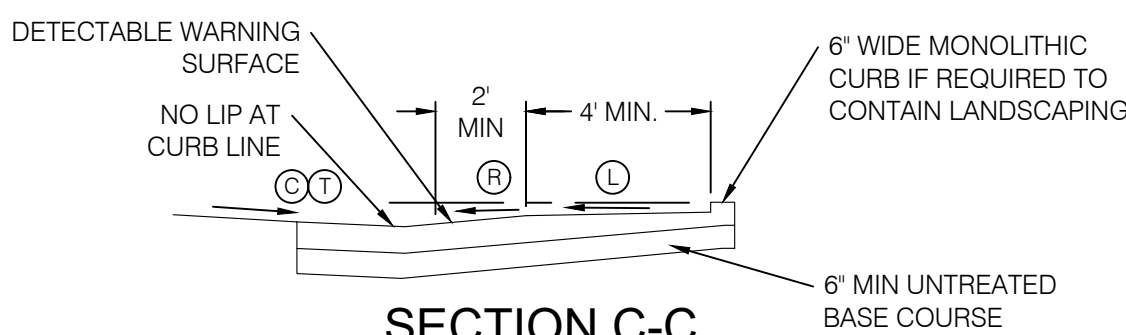
SCALE: N.T.S.

STANDARD ACCESS RAMP 1

SCALE: NTS



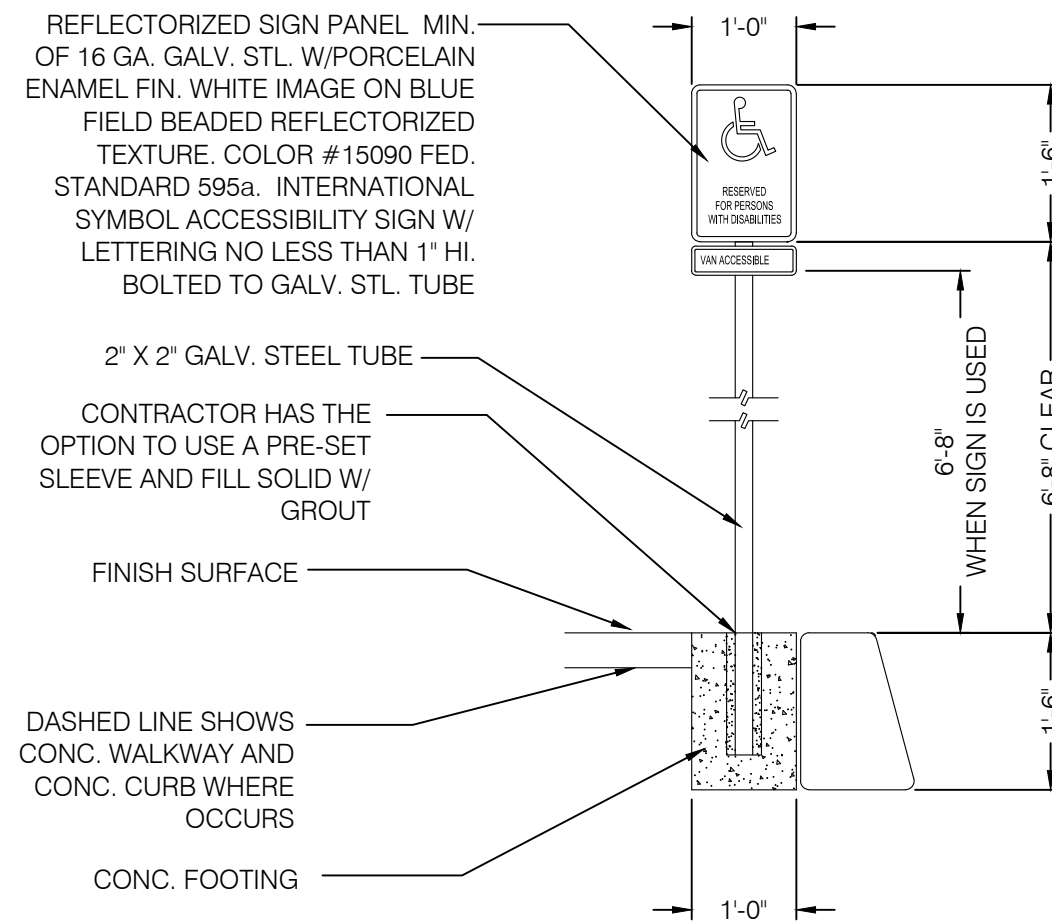
**PEDESTRIAN ACCESS
RAMP DETAIL**



SECTION C-C

NOTES:

1. CONFIGURATION OF RAMPS AND LANDINGS MAY BE CHANGED BUT MUST MEET PEDESTRIAN RAMP DIMENSIONS AND SLOPE REQUIREMENTS. SPECIFIC SITE CONDITIONS WILL VARY. THE USE OF FLARES, CURBWALLS, ETC. ARE AT THE DISCRETION OF THE ENGINEER.
2. PERPENDICULAR AND PARALLEL PEDESTRIAN RAMPS SHOWN ON THIS DRAWING ARE ACCEPTABLE FOR USE AT MID BLOCK OR CORNER INSTALLATIONS.
3. PROVIDE DETECTABLE WARNING SURFACE FOR FULL WIDTH OF RAMP, LANDING OR CURB CUT. SEE DETAIL A FOR DETECTABLE WARNING SURFACE DIMENSIONS.
4. LOCATE DETECTABLE WARNING SURFACE SO THAT THE EDGE NEAREST THE STREET IS 4 TO 6 INCHES FROM THE TOP BACK OF CURB.
5. PROVIDE DETECTABLE WARNING SURFACE. COLOR SHALL BE YELLOW.
6. USE CLASS AA (AE) CONCRETE.
7. USE 6" MIN. DEPTH OR UNTREATED BASE COURSE UNDER ALL CONCRETE FLATWORK COMPACTED TO 96% MAXIMUM DRY DENSITY.



ADA SIGN POST DETAIL

TABLE OF DIMENSIONS	
ELEMENT	DIMENSION
① ②	4 FEET WIDE MINIMUM
③ ④	4 FEET SQUARE MINIMUM*

* WHERE LANDING SPACE IS CONSTRAINED ON 2 SIDES, PROVIDE 5 FEET IN THE DIRECTION OF THE CROSSWALK

SLOPE TABLE		
	ITEM	CROSS SLOPE
①	LANDING	1.5-2% (1V:48H) (b)
②	RAMP	8.33% (1V:12H) (c)
③	TRANSITION	5% (1V:20H) (a)
④	CLEAR SPACE	5% (1V:20H) (a)
	SIDEWALK	--
	FLARE	10% (1V:10H)

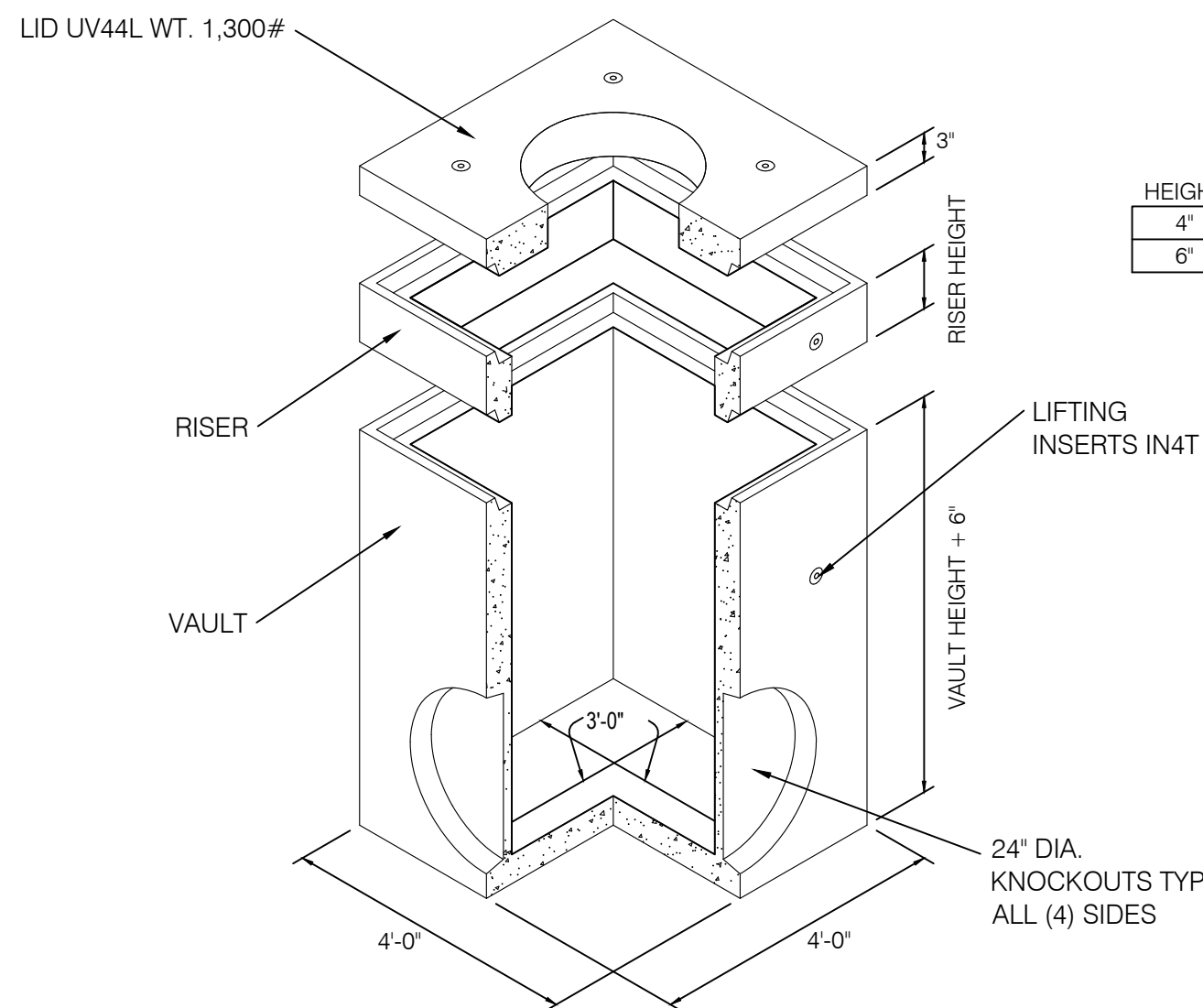
* RUNNING SLOPE IS IN THE DIRECTION OF PEDESTRIAN TRAVEL, WHILE CROSS SLOPE IS PERPENDICULAR TO PEDESTRIAN TRAVEL.

(a) TRANSITION RUNNING SLOPE NEEDS TO BE CONSTANT ACROSS ENTIRE CURB CUT. WARP GUTTER PAN TO MEET REQUIRED TRANSITION SLOPE AT CURB CUT (0.10' MAX. ABOVE FLOWLINE.)

EXCEPTION:

- (b) IF SLOPE REQUIREMENTS CAN'T BE ACHIEVED ON MID-BLOCK RAMPS CONTACT THE ENGINEER.
- (c) PARALLEL RAMPS ARE NOT REQUIRED TO EXCEED 15-FEET IN LENGTH.
- (d) CROSS SLOPE REQUIREMENT DOES NOT APPLY AT PERPENDICULAR RAMP MID-BLOCK CROSSING.

NOTE:
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GRADE RING		
HEIGHT	CODE	WEIGHT
4"	GR304	180#
6"	GR306	270#

RISER		
HEIGHT	CODE	WEIGHT
1'	UV441R	1,350#
2'	UV442R	2,700#
3'	UV443R	4,050#
4'	UV444R	5,400#
5'	UV445R	6,750#
6'	UV446R	8,100#

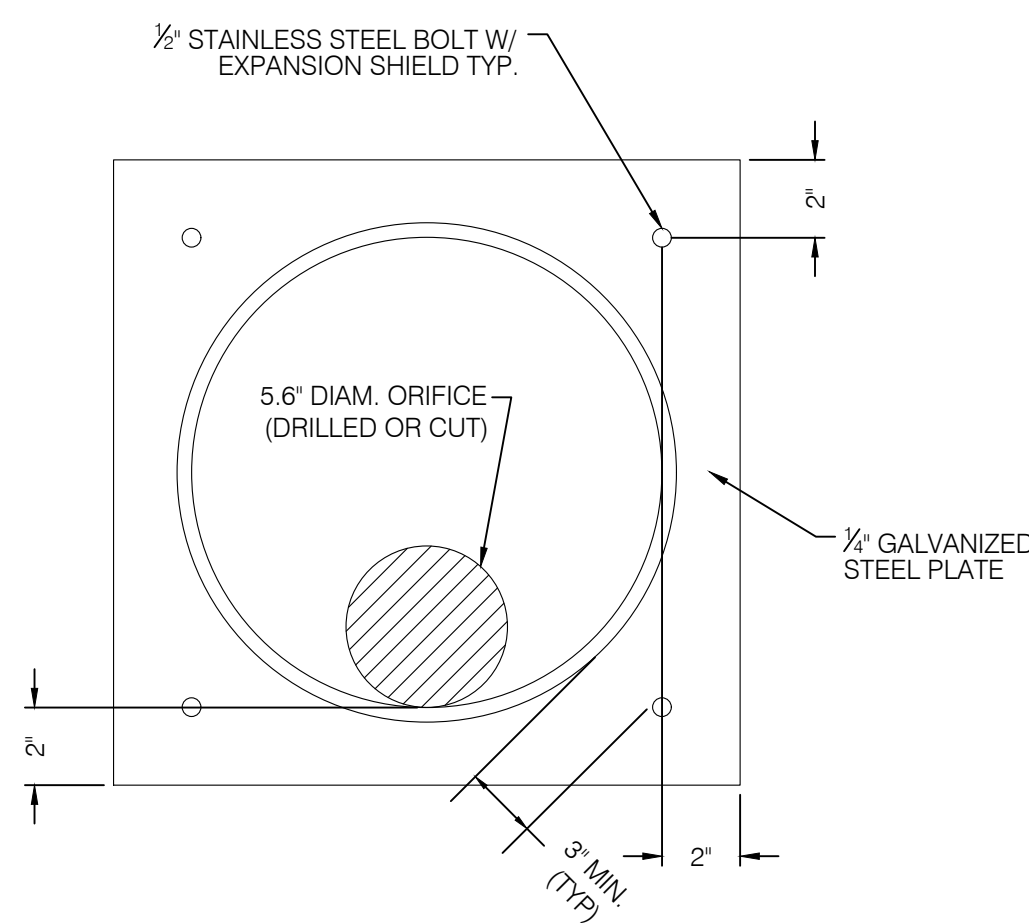
VAULT		
HEIGHT	CODE	WEIGHT
3'	CB443	3,225#
4'	CB444	4,575#
5'	CB445	5,925#
6'	CB446	7,275#

- NOTES:
1. CATCH BASINS ARE DESIGNED TO MEET ASTM C858 WITH AASHTO HS-20 LOADING.
 2. OPENINGS MAY BE SIZED AND LOCATED AS REQUIRED.
 3. OPTIONAL GRATING OR COVER MATERIAL MAY BE CAST IN AS REQUIRED.
 4. CHECK HARDWARE SECTION FOR OPTIONAL ACCESSORIES.

3'x3' CATCH BASIN 2

SCALE: NTS

NOTE:
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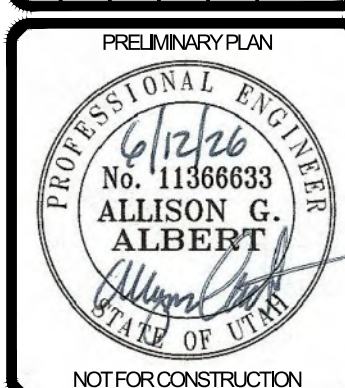
FLOW RESTRICTOR PLATE

1. STEEL: ASTM A 36 STEEL
2. BOLTS: USE 1/2" STAINLESS STEEL BOLTS AND 1/2" STAINLESS WASHERS.
3. COATING: COAT ALL METAL PARTS WITH ASPHALTUM PAINT.

5.6" ORIFICE RESTRICTOR 3

SCALE: N.T.S.

PROJECT NO.	DATE	DESCRIPTION
2512197	08/12/2026	REVISED PER CITY COMMENTS
1		
2		
3		
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8		
9		
10		



**BENCHMARK
ENGINEERING &
LAND SURVEYING**

9138 SOUTH STATE STREET SUITE #100
SANDY, UTAH 84070 (801) 542-7192
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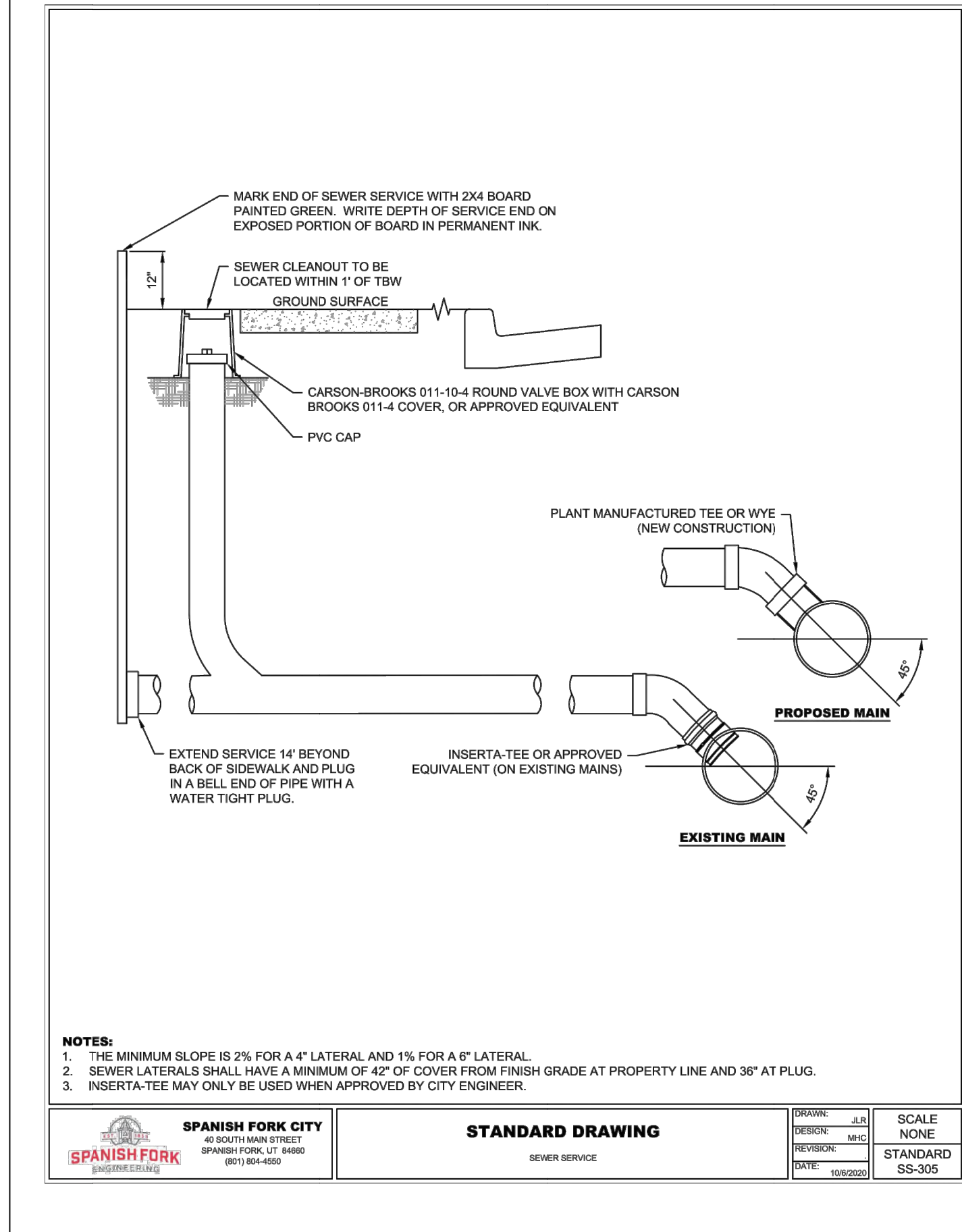
DOUG SMITH AUTOPLEX

2850 NORTH 350 EAST
SPANISH FORK, UTAH

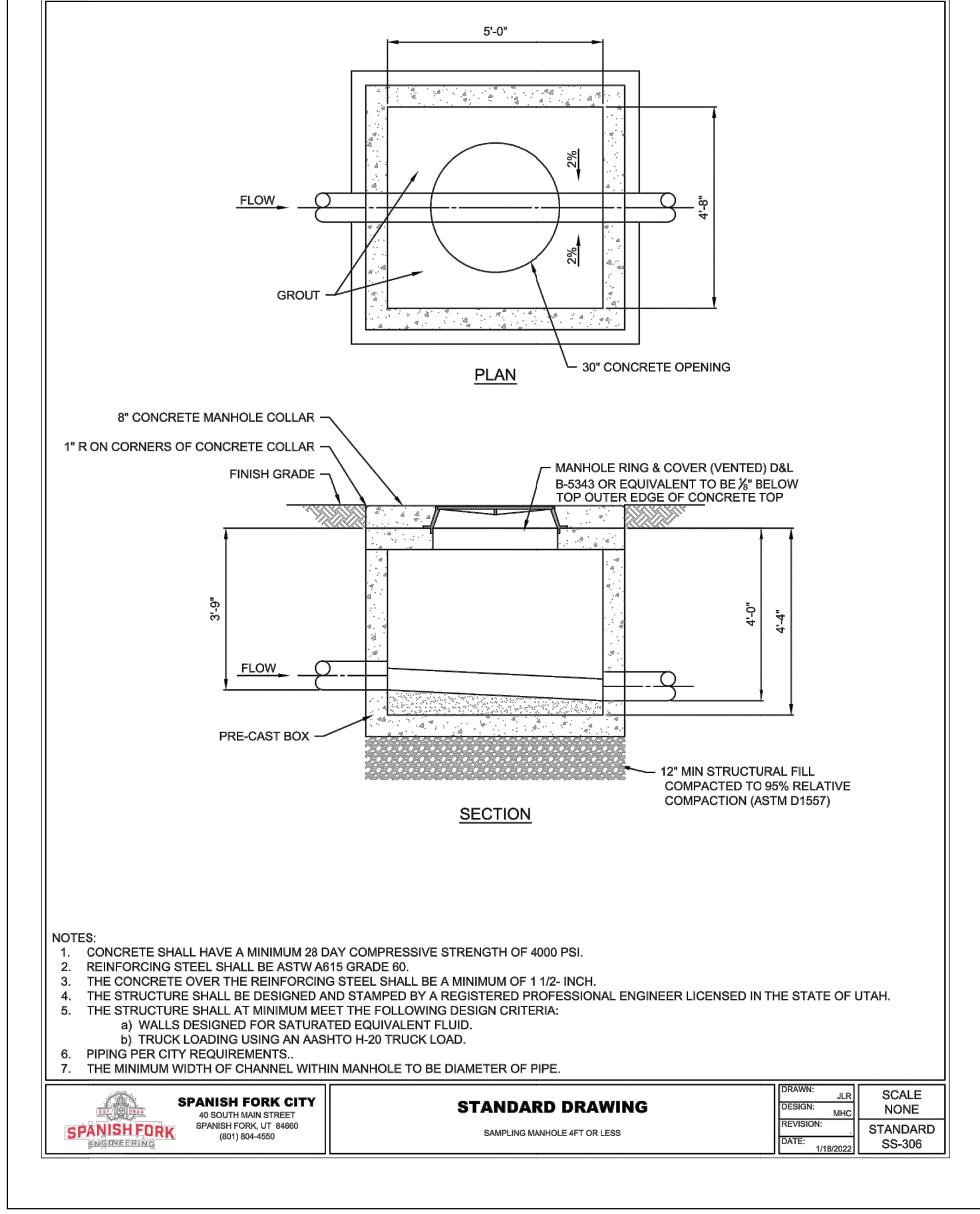
PROJECT NO. 2512197

**DETAIL
SHEET**

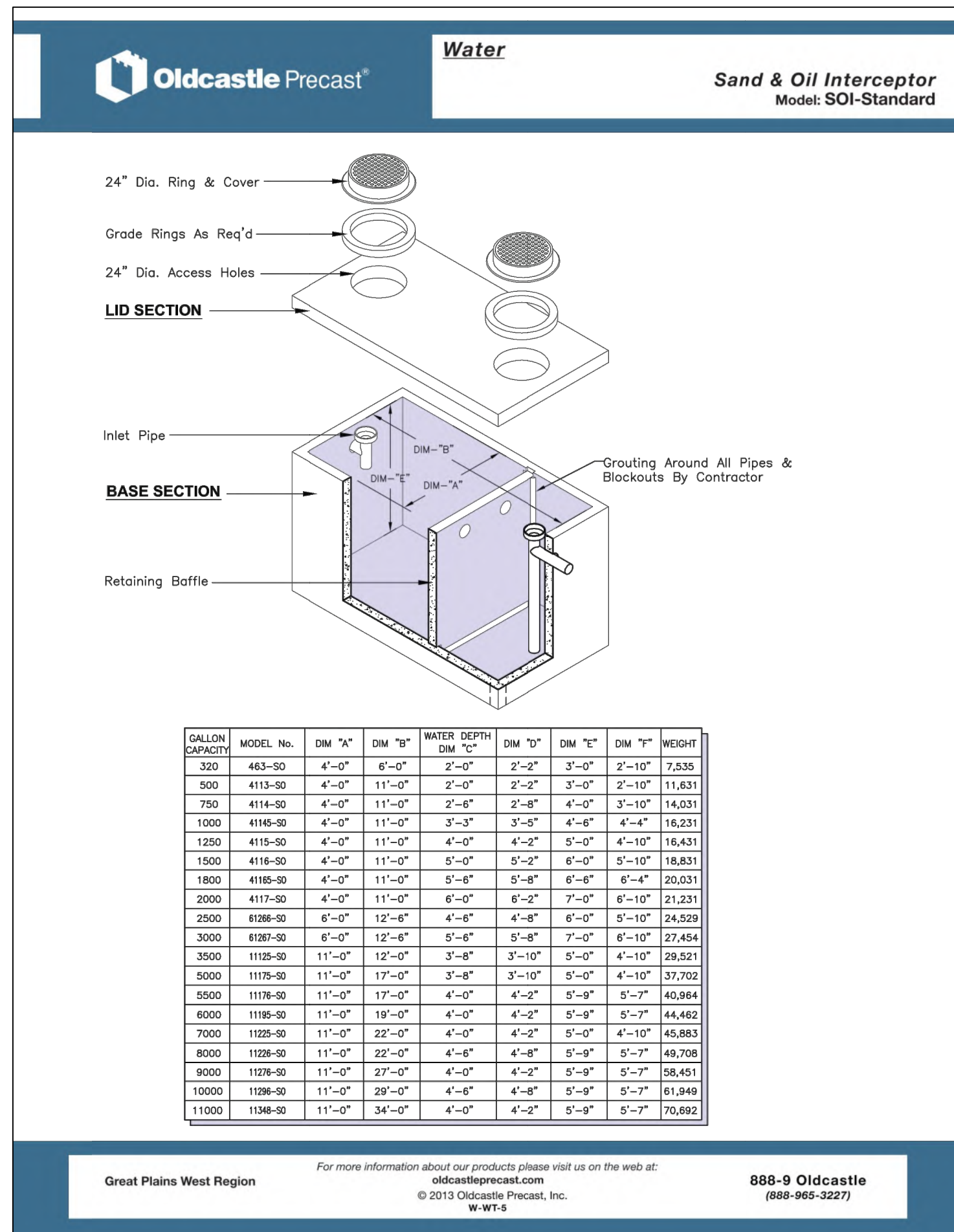
CDT.02
13 OF 15



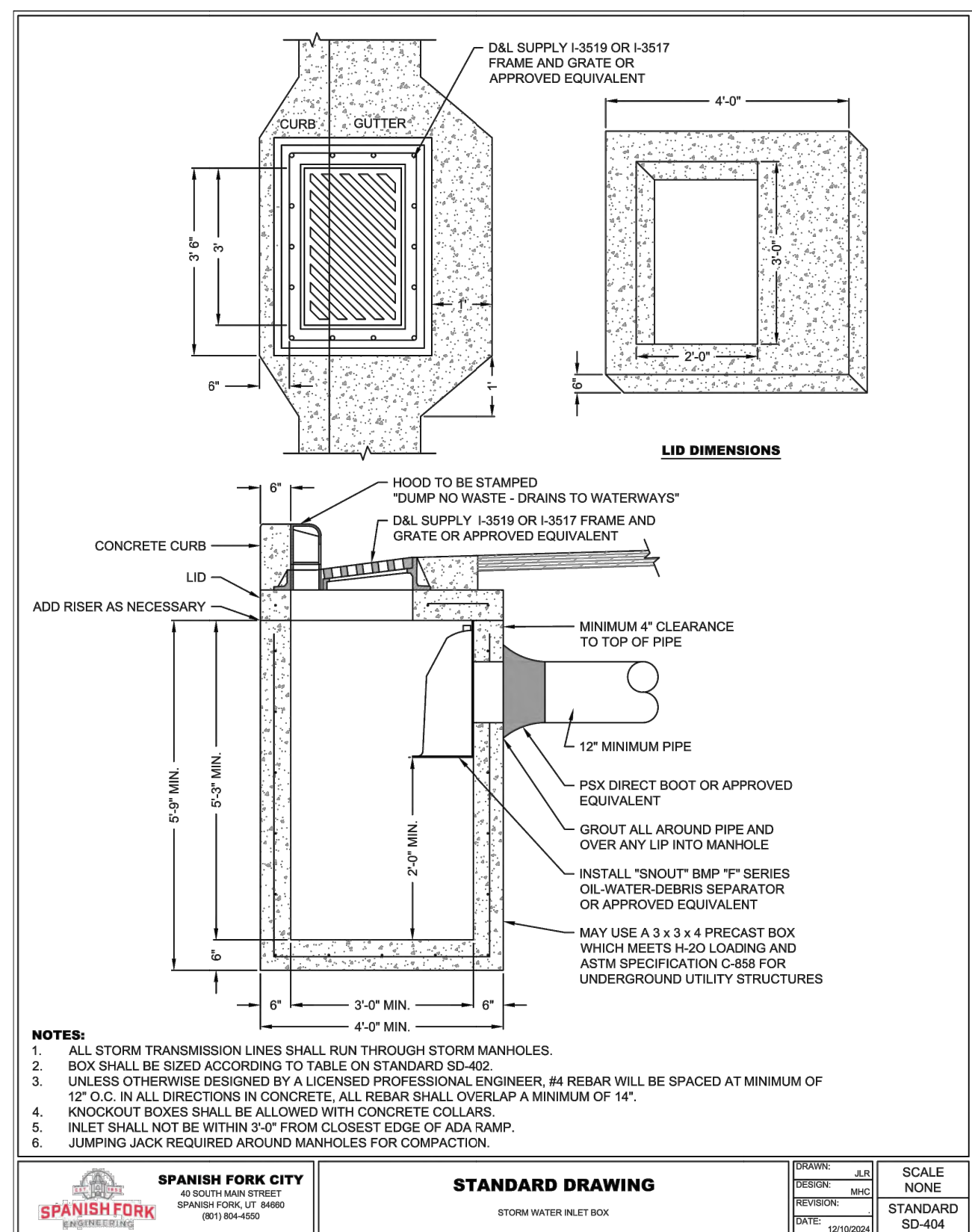
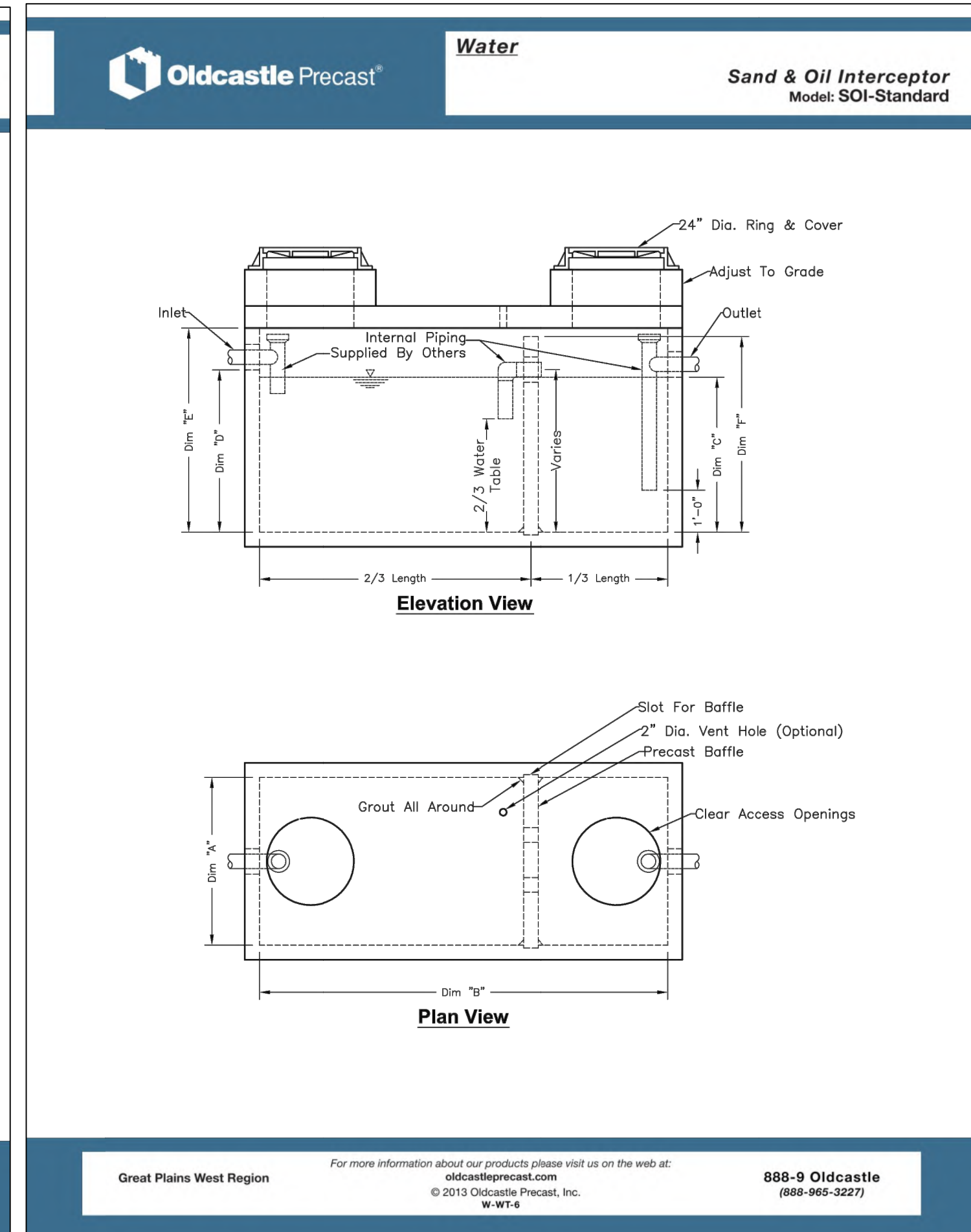
SEWER SERVICE
SCALE: NTS



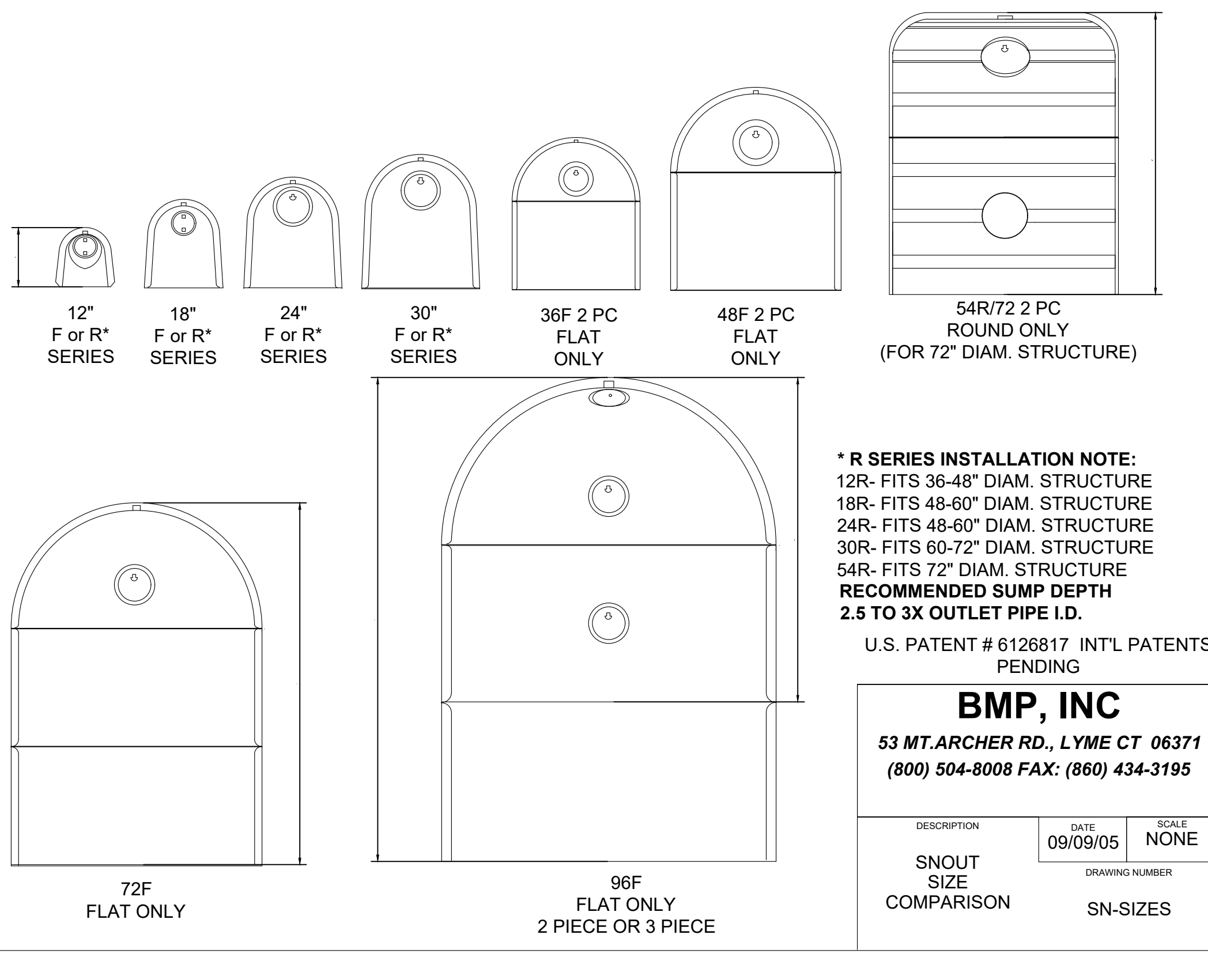
SEWER SAMPLING MANHOLE
SCALE: NTS



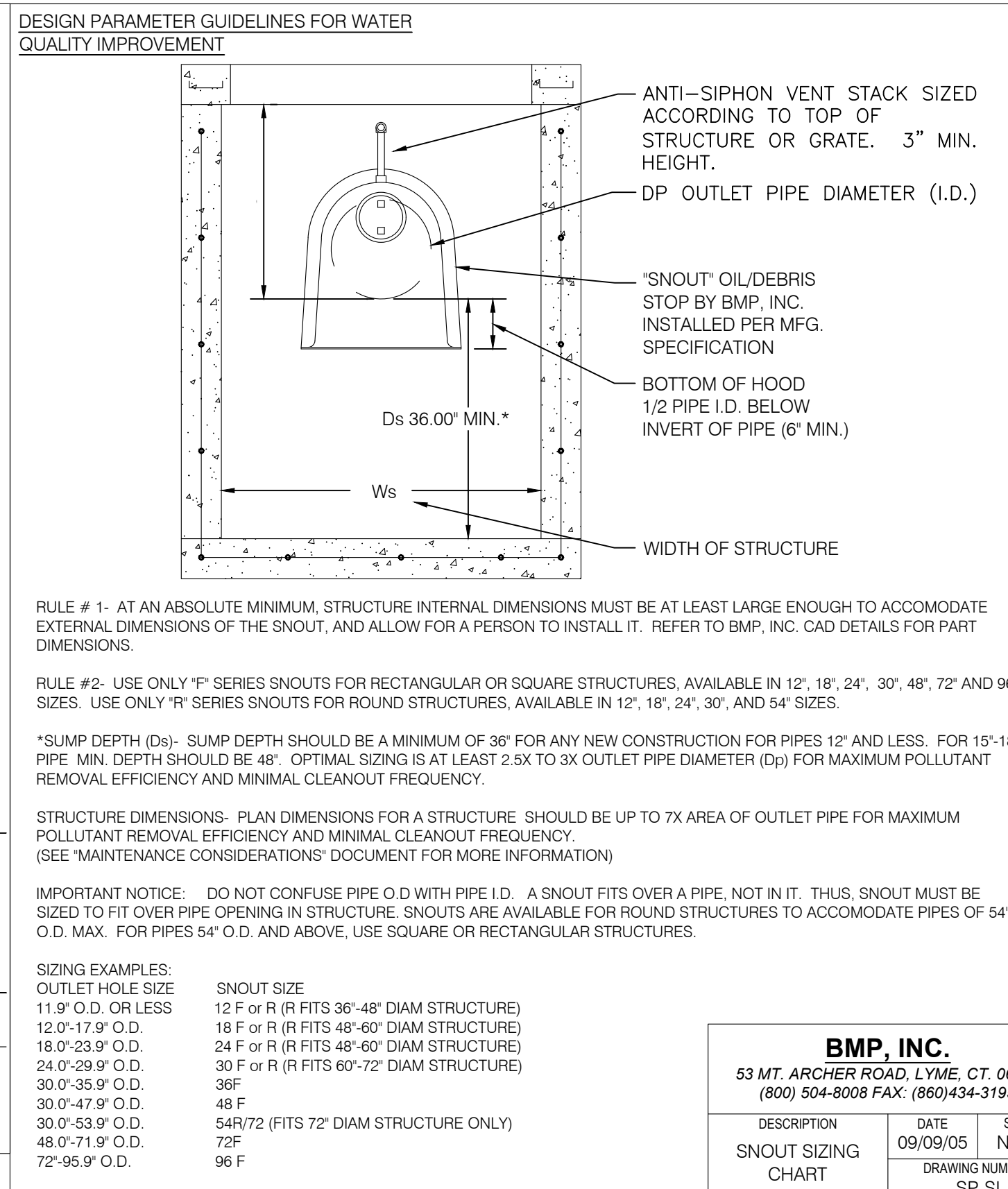
SAND AND OIL SEPARATOR
SCALE: NTS



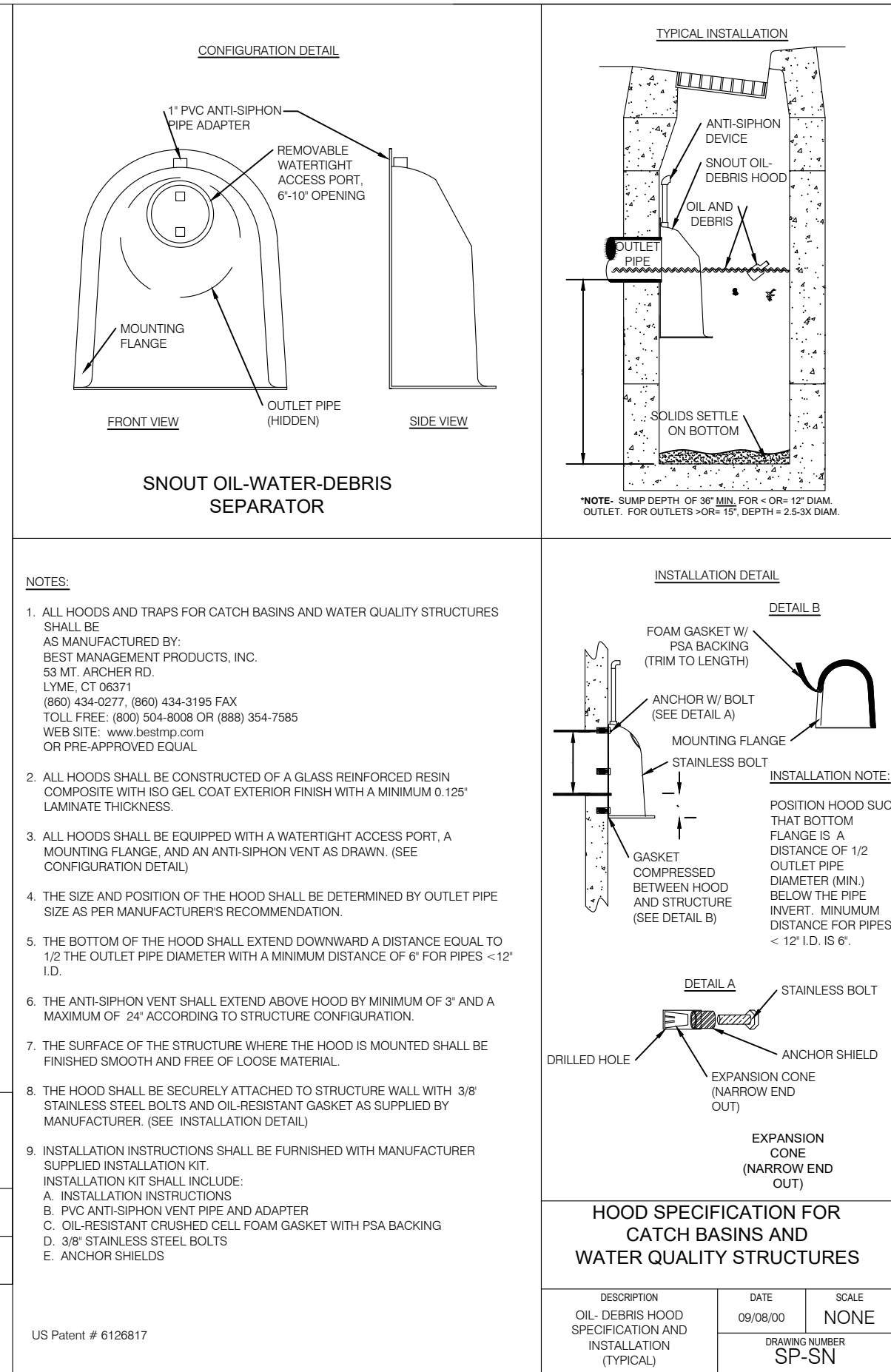
STORM DRAIN INLET BOX
SCALE: NTS



NOTE: THIS DETAIL IS A GENERIC DETAIL AND NOT SPECIFIC TO THE PROJECT SPECIFICATIONS. FOLLOW ALL PROJECT SPECIFIC INFORMATION SHOWN ON THE SITE, UTILITY, GRADING AND DRAINAGE PLANS THAT INCORPORATE AND REFERENCE THIS DETAIL. CONTACT ENGINEER FOR FURTHER DIRECTION IF NEEDED.



24R SNOUT DETAILS
SCALE: NTS



DOUG SMITH AUTOPLEX

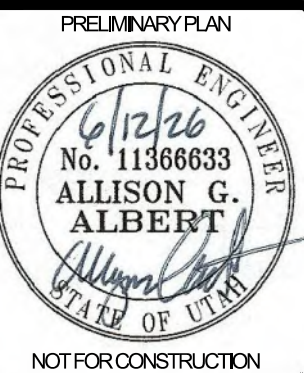
2850 NORTH 350 EAST
SPANISH FORK, UTAH

DETAIL SHEET

CDT.03
14 OF 15

NO.	DATE	DESCRIPTION
1	09/12/2016	REVISED PER CITY COMMENTS
TJB	AGA	CHECKED BY
SC	RED CROW	FIELD CREW
4/24/2016	DATE	
2512197	SITE	RAW FILE
0.3		
0		

SCALE MEASURES 1/4" ON FULL SIZE SHEETS
ADJUST ACCORDING FOR REDUCED SIZE SHEETS



BENCHMARK ENGINEERING & LAND SURVEYING
9138 SOUTH STREET SUITE #100
SANDY, UTAH 84071 (801) 542-7192
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PROJECT NO. 2512197

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