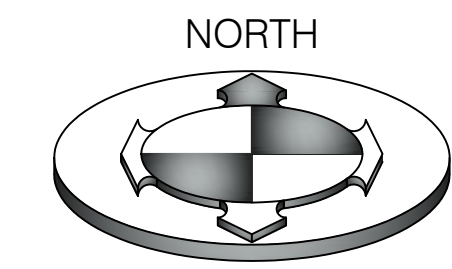
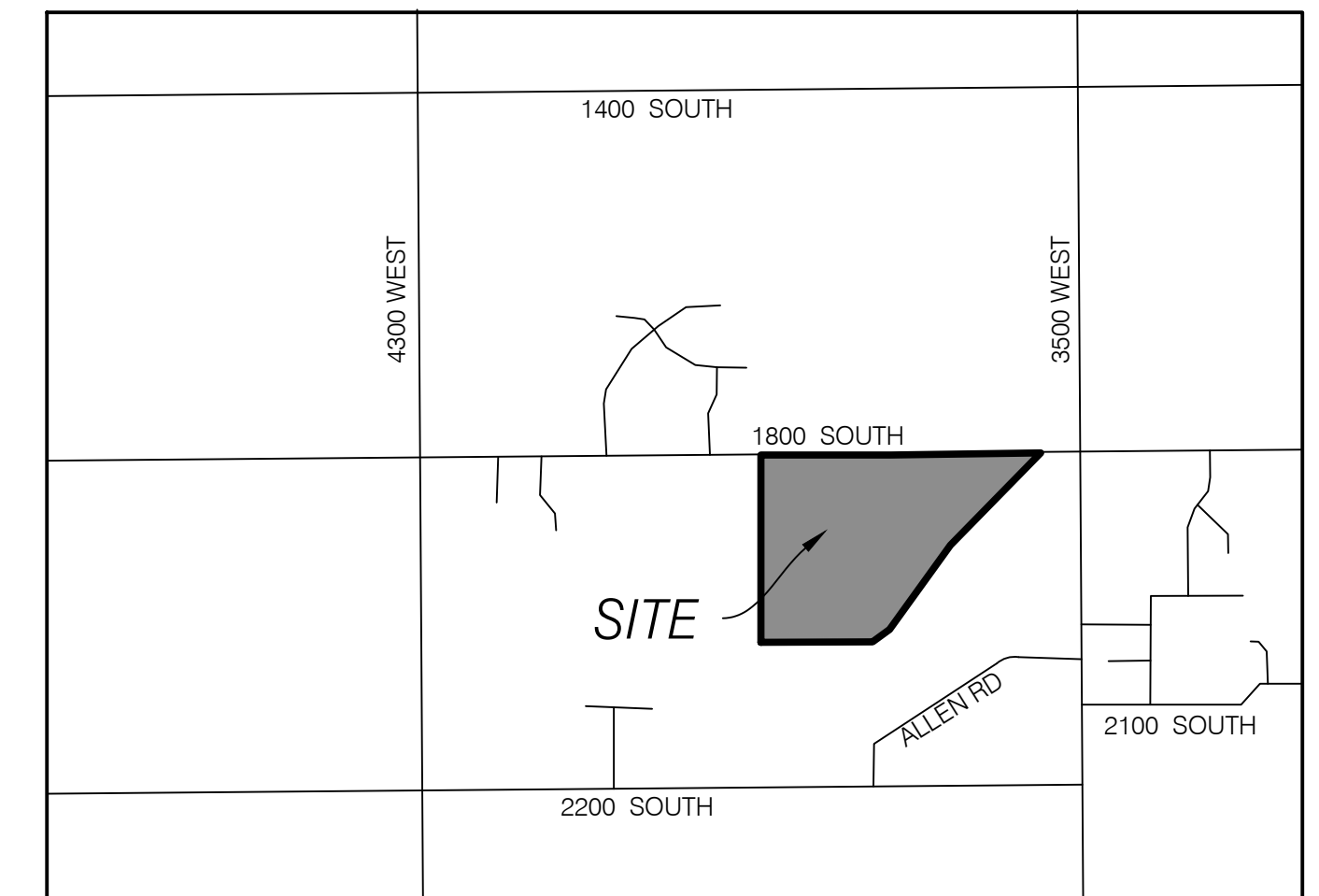
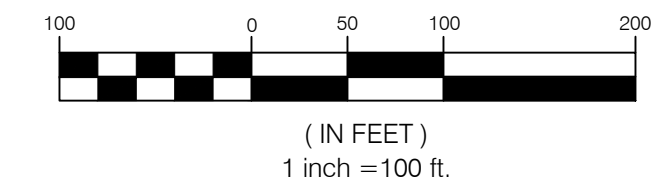


WINSTON PARK

LOCATED IN THE NORTHEAST QUARTER OF SECTION 28,
TOWNSHIP 6 NORTH NORTH, RANGE 2 WEST,
SALT LAKE BASE AND MERIDIAN
WEBER COUNTY, UTAH



GRAPHIC SCALE



VICINITY MAP
N.T.S

PRELIMINARY DRAWING INDEX

COVER	COVER SHEET
CGN.01	GENERAL NOTES, LEGEND AND ABBREVIATION
CSP.01	SITE PLAN
CSP.02	SITE PLAN
CUP.01	UTILITY PLAN
CUP.01	UTILITY PLAN
CGD.01	GRADING & DRAINAGE PLAN
CGD.02	GRADING & DRAINAGE PLAN
CPP.01	ROADWAY PLAN & PROFILE
CPP.02	ROADWAY PLAN & PROFILE
CPP.03	ROADWAY PLAN & PROFILE
CPP.04	ROADWAY PLAN & PROFILE
CPP.05	ROADWAY PLAN & PROFILE
CPP.06	ROADWAY PLAN & PROFILE
CEP.01	EROSION CONTROL PLAN
CEP.02	EROSION CONTROL DETAILS
CDT.01	DETAILS & NOTES
CDT.02	DETAILS & NOTES
CDT.03	DETAILS & NOTES
CDT.04	DETAILS & NOTES

PRELIMINARY CIVIL CONSTRUCTION PLANS

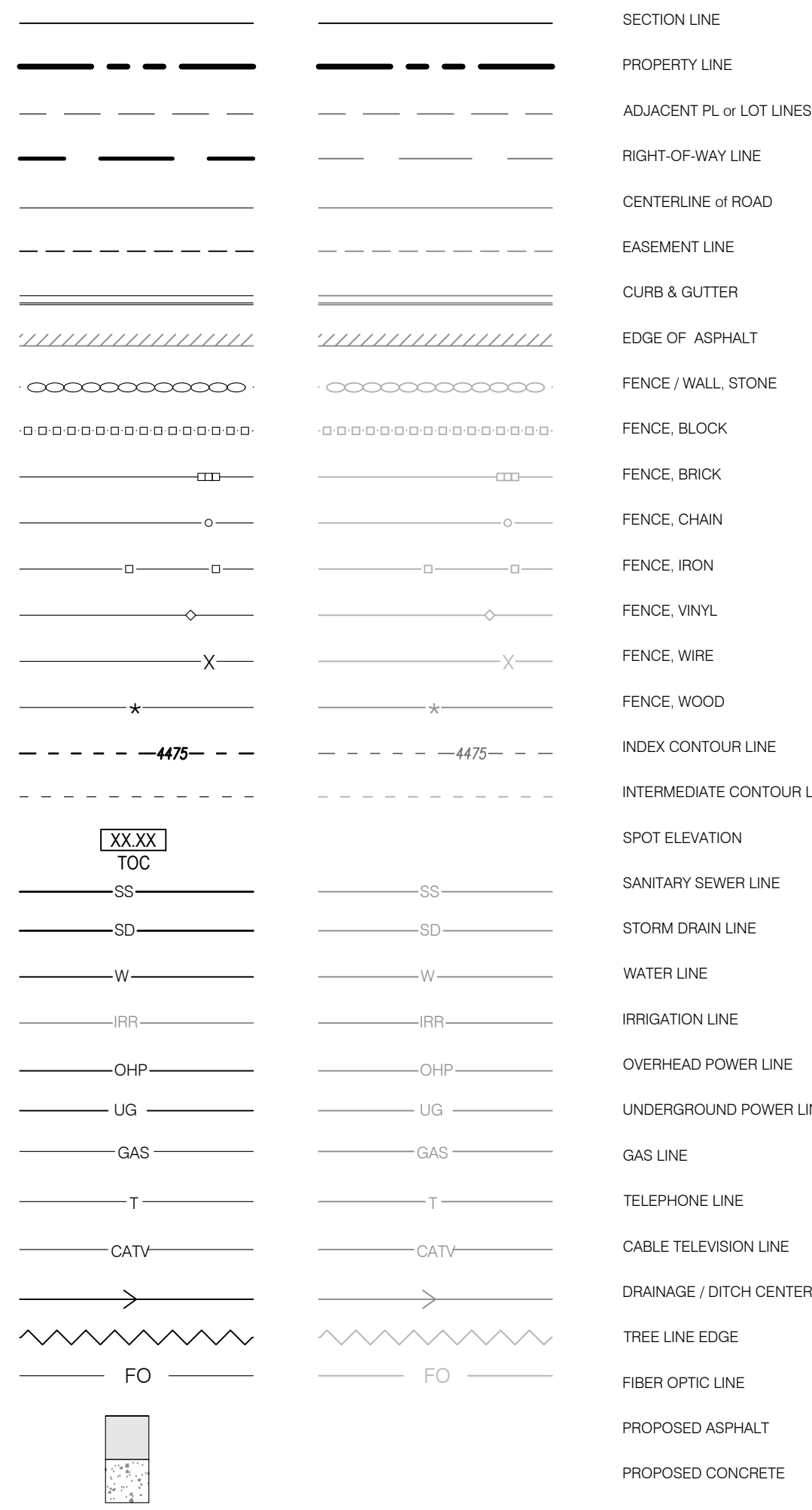
OWNER: IGOR MAKSYMIW
EMAIL: igormaksymiw@aol.com

	PRELIMINARY PLAN NOT FOR CONSTRUCTION	BENCHMARK ENGINEERING & LAND SURVEYING <small>9138 SOUTH STATE STREET SUITE # 100 SANDY, UTAH 84070 (801) 542-7192 www.benchmarkcivil.com</small>																			
		<small>DRAWN BY: JHO</small> <small>DESIGNED BY: AGA</small> <small>CHECKED BY: MCP</small>	<small>DATE: 08/02/2020</small> <small>DATE: 08/25/2020</small> <small>DATE: 09/03/2020</small>																		
WINSTON PARK 3701 W 1800 S WEBER COUNTY, UTAH		PROJECT NO: 2006142																			
<table border="1"> <thead> <tr> <th>No.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		No.	DATE	DESCRIPTION																COVER 1 OF 20	
No.	DATE	DESCRIPTION																			



LINETYPES:

NEW EXISTING



SYMBOLS:

NEW EXISTING



ABBREVIATIONS

Table listing abbreviations for construction elements such as BC BAR & CAP, BOW BOTTOM OF VISIBLE WALL, COR SECTION CORNER, CB CATCH BASIN, etc.

CONSTRUCTION NOTES

RESPONSIBLE DISTRICTS OR AGENCIES AND APPLICABLE STANDARDS CITY OF COUNTY WEBER COUNTY WATER UTILITY COMPANY TAYLOR WEST WEBER WATER DISTRICT SECONDARY WATER HOOPER IRRIGATION SEWER WEBER COUNTY STORM DRAIN/GROUNDWATER WEBER COUNTY ELECTRICAL ROCKY MOUNTAIN POWER TELEPHONE CENTURY LINK NATURAL GAS DOMINION ENERGY APPLICABLE STANDARDS: APWA 2017 STANDARDS

GENERAL

- 1. ALL MATERIALS AND CONSTRUCTION IN THE PUBLIC RIGHT OF WAY SHALL BE IN ACCORDANCE WITH RESPONSIBLE DISTRICT OR AGENCY. 2. CONTRACTOR AND APPLICABLE SUBCONTRACTORS SHALL ATTEND ALL PRE-CONSTRUCTION CONFERENCES AND PERIODIC PROGRESS MEETINGS... 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PUBLIC SAFETY AND OSHA STANDARDS... 4. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS, THE GEOLOGY REPORTS AND THE SITE CONDITIONS...

EXISTING UTILITIES

- 39. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITIES SHOWN OR NOT SHOWN. THE INFORMATION SHOWN ON THE PLANS WITH REGARD TO THE EXISTING UTILITIES AND/OR IMPROVEMENTS WAS DERIVED FROM FIELD INVESTIGATION AND/OR RECORD INFORMATION... 40. PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE IN THE FIELD...

CLEARING AND GRADING

- 47. ALL PROPOSED ELEVATIONS SHOWN ON THE GRADING PLAN ARE TO FINISHED SURFACE. THE CONTRACTOR IS RESPONSIBLE TO DEDUCT THE THICKNESS OF THE PAVEMENT STRUCTURAL SECTION FOR TOP OF SUB GRADE ELEVATIONS. 48. IF AT ANY TIME DURING CONSTRUCTION ANY UNFAVORABLE GEOLOGICAL CONDITIONS ARE ENCOUNTERED...

UTILITIES

- 14. CONTRACTOR TO SPACE UTILITIES TO PROVIDE MINIMUM DISTANCES AS REQUIRED BY LOCAL, COUNTY, STATE AND INDIVIDUAL UTILITY CODES. 15. ALL UTILITIES INSTALLED IN ACCORDANCE WITH THE RESPONSIBLE DISTRICTS OR AGENCIES STANDARDS AND SPECIFICATIONS. 16. COORDINATE ALL SERVICE LATERAL AND BUILDING CONNECTIONS WITH CORRESPONDING ARCHITECTURAL, MECHANICAL OR ELECTRICAL DRAWING FOR LOCATION AND ELEVATION...

- 27. ACTUAL CONNECTIONS TO EXISTING WATER LINES WILL NOT BE PERMITTED PRIOR TO THE COMPLETION OF STERILIZATION AND TESTING OF NEW WATER MAINS... 28. ALL UNDERGROUND UTILITIES SHALL BE IN PLACE, INSPECTED, TESTED, AND APPROVED BY AUTHORITIES HAVING JURISDICTION PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK, AND STREET PAVING.

SEWER

- 29. ALL SEWER LINE TO BE FULFILLED, MEASURED, TESTED, VIDEO INSPECTED AND OTHERWISE TESTED IN ACCORDANCE WITH DISTRICT STANDARDS PRIOR TO PLACING IN SERVICE... 30. ALL SEWER PIPES ARE TO BE SDR-35 PVC PIPE. SEWER MARKING TAPE MUST BE INSTALLED IN PIPE TRENCH.

WATER

- 33. WATER LINES TO BE PVC C-9000 WATER LINES SHALL BE A MINIMUM OF 10" HORIZONTALLY FROM SEWER MAINS, CROSSINGS SHALL MEET STATE HEALTH STANDARDS... 34. ALL WATER LINES SHALL BE 8" MINIMUM SIZE AND SERVICE LATERALS SHALL BE 1-1/2" MINIMUM UNLESS OTHERWISE NOTED.

- 35. WATER SERVICE LATERALS TO INCLUDE ALL BRASS SADDLE, COPR, STOP LATERAL, DOUBLE CHECK VALVE AND BACKFLOW PREVENTION DEVICE, AND SHUTOFF VALVE IN BOX NEAR BUILDING EDGE.

- 36. ALL WATER LINES 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.

- 37. 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, PRESSURE TESTING, BACTERIA TESTING, ETC. TO BE COORDINATED WITH RESPONSIBLE DISTRICT OR AGENCY.

- 38. BOTTOM FLANGE OF FIRE HYDRANTS TO BE SET TO APPROXIMATELY 4 INCHES ABOVE BACK OF CURB ELEVATION. HYDRANTS TO INCLUDE TEE, 4" LINE VALVE, AND HYDRANT COMPLETE TO MEET RESPONSIBLE DISTRICT OR AGENCY STANDARDS... 39. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITIES SHOWN OR NOT SHOWN.

POURS WITHOUT THE APPROVAL OF THE ENGINEER.

- 60. SITE WORK SHALL MEET OR EXCEED OWNERS SITE SPECIFICATIONS. 61. ALL SITE CONCRETE OR CONCRETE ELEMENT NOT SPECIFICALLY SHOWN AND DETAILED ON STRUCTURAL DRAWINGS TO HAVE A MINIMUM OF 28 DAY COMPRESSION STRENGTH OF 4000 PSI. 62. CUT SLOPES SHALL BE NO STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL. 63. FILL SLOPES SHALL BE NO STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.

DEWATERING

- 65. THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE AND MAINTAIN ALL MACHINERY, APPLIANCES AND EQUIPMENT TO MAINTAIN ALL EXCAVATIONS FREE FROM WATER DURING CONSTRUCTION... 66. THE CONTRACTOR SHALL CONTROL SURFACE WATER TO PREVENT ENTRY INTO EXCAVATIONS... 67. SUMPS SHALL BE NO DEEPER THAN 4 FEET AND SHALL BE AT THE LOW POINT OF EXCAVATION.

- 68. THE CONTROL OF GROUNDWATER SHALL BE SUCH THAT SOFTENING OF THE BOTTOM OF EXCAVATIONS, OR FORMATION OF "CREEP" CONDITIONS OR "BOILS" DOES NOT OCCUR... 69. ONE HUNDRED PERCENT STANDBY PUMPING CAPACITY SHALL BE AVAILABLE ON SITE AT ALL TIMES.

SITE SAFETY AND MAINTENANCE

- 70. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY... 71. THE CONTRACTOR AGREES THAT: A. THEY SHALL BE RESPONSIBLE TO CLEAN THE JOB SITE AT THE END OF EACH PHASE OF WORK.

- 72. 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... 73. SUBGRADE PREPARATION: SUBGRADE SHALL BE COMPACTED TO A 95% RELATIVE COMPACTION TO A MINIMUM DEPTH OF 6" FOR ALL ON-SITE DEVELOPMENT... 74. AGGREGATE SUB-BASE: AGGREGATE SUB-BASE SHALL BE GRANULAR BACKFILL BORROW...

- 75. AGGREGATE BASE: AGGREGATE BASE SHALL BE GRADE 3/4 UNTREATED BASE COURSE, AND COMPLY PREPARED REPORT OF THE SOILS INVESTIGATION COMPLETED ON THIS SITE. 76. ALL SIDEWALKS AND CROSSINGS TO MEET CURRENT ADA STANDARDS/APWA STANDARDS.

- 77. PAYMENT FOR PAVEMENT WILL BE MADE ONLY FOR AREAS SHOWN ON PLANS. REPLACEMENT OF PAVEMENT WHICH IS BROKEN OR CUT DURING THE INSTALLATION OF THE WORK COVERED BY THESE GENERAL NOTES... 78. INSTALLATION OF STREET LIGHTS SHALL BE IN ACCORDANCE WITH CITY STANDARDS.

- 79. 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. 80. STRIPPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH MUTCD & APWA 32 17.23.

- 81. DURING THE BIDDING PROCESS, CONTRACTOR TO REVIEW DESIGN SLOPES SHOWN FOR PAVEMENT AND WARRANTY THE PAVEMENT TO THE OWNER BASED UPON THE DESIGN SLOPES SHOWN HEREON... 82. IT IS THE INTENT ON THESE PLANS THAT ALL PAVEMENT SLOPE TO A CATCH BASIN, INLET BOX OR OUT INTO A STREET... 83. STRIPPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH MUTCD & APWA 32 17.23.

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



NOTE: IN THE EVENT THAT THE CONSTRUCTION NOTES CONFLICT WITH RESPONSIBLE DISTRICT OR AGENCY STANDARDS NOTES AND SPECIFICATIONS, THE DISTRICT OR AGENCY STANDARD NOTES AND SPECIFICATIONS GOVERN.

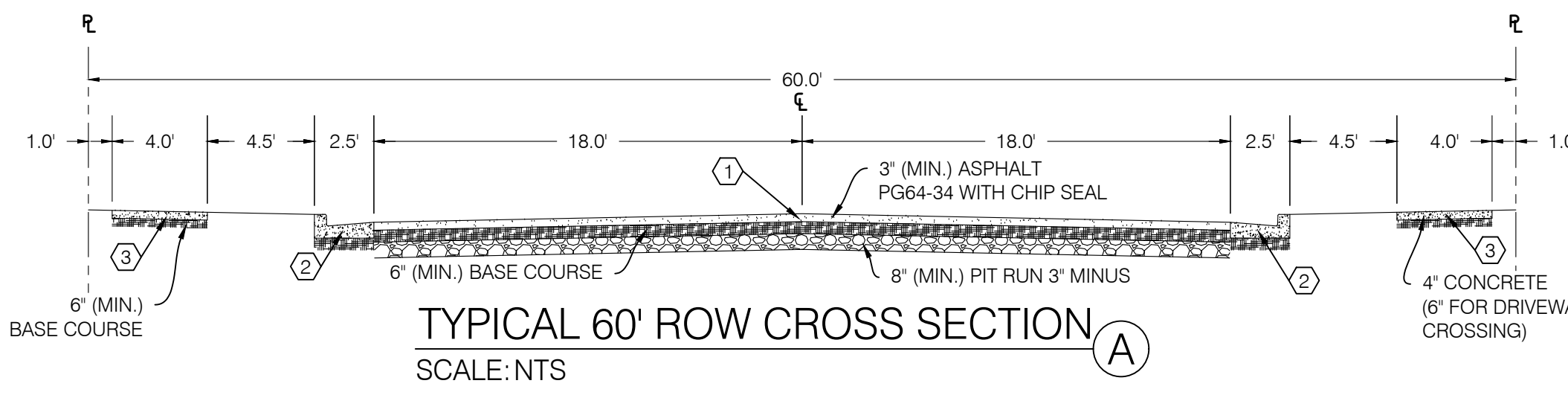
CAUTION NOTICE TO CONTRACTORS THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ORIENTATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD...

Table with columns: NO, DATE, DESCRIPTION, REVIEWED BY, CHECKED BY, FIELD/DATE, DATE, DRAWN BY, SCALE, SHEET NO. Includes project info and scale.

PRELIMINARY PLAN NOT FOR CONSTRUCTION

BENCHMARK ENGINEERING & LAND SURVEYING logo and address: 9188 SOUTH STATE STREET SUITE #100 SANDY, UTAH 84070 (801) 542-7192 www.benchmarkcivil.com

WINSTON PARK 3701 W 1800 S WEBER COUNTY, UTAH



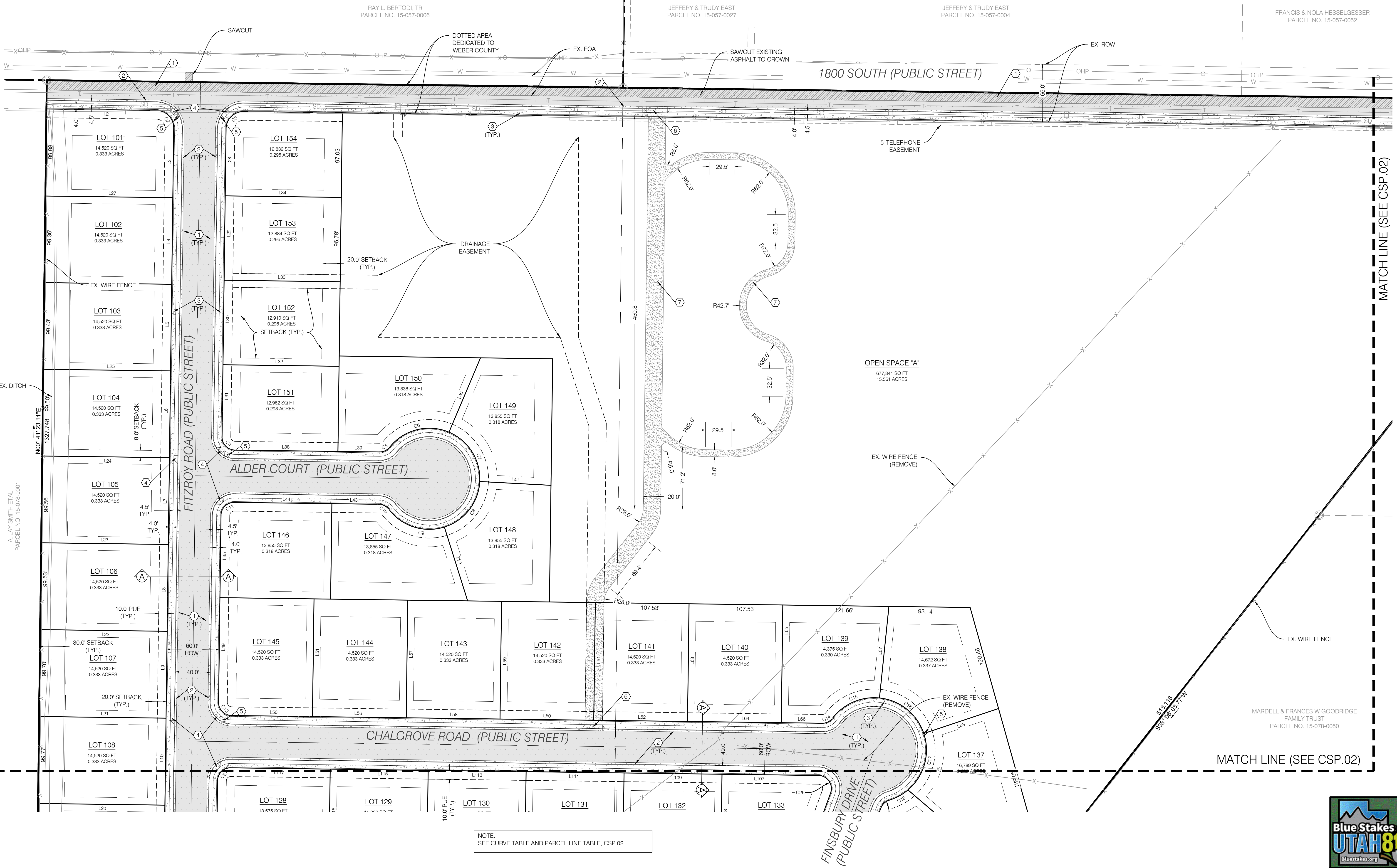
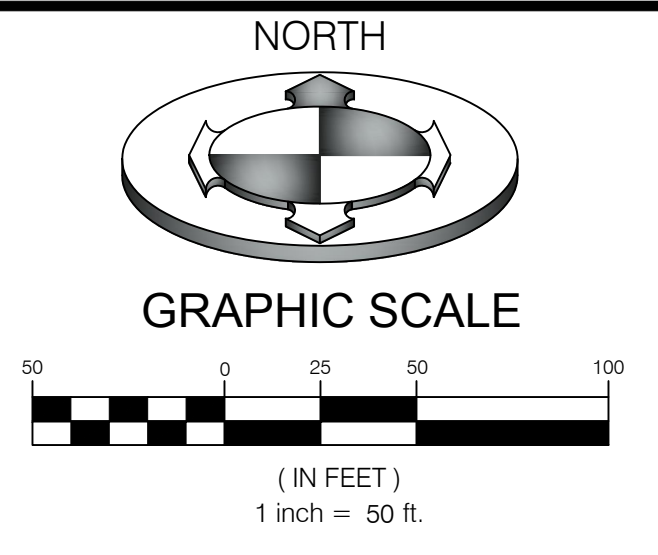
CONSTRUCTION KEY NOTE REFERENCE		
NO	DESCRIPTION	DETAIL
1	ASPHALT PAVEMENT (PG64-34) WITH CHIP SEAL PER WEBER COUNTY PUBLIC STDS.	1/CDT.01
2	CONCRETE CURB AND GUTTER PER WEBER COUNTY PUBLIC STDS.	2/CDT.01
3	SIDEWALK PER WEBER COUNTY PUBLIC STDS.	2/CDT.01
4	ADA RAMP PER WEBER COUNTY PUBLIC STDS.	4/CDT.01
5	LIGHTPOLE (TO BE OWNED AND MAINTAINED BY HOA)	
6	"TYPE B" DRIVE APPROACH PER WEBER COUNTY PUBLIC STDS.	3/CDT.01
7	GRAVEL ACCESS ROAD/PATHWAY	1/CDT.01

AREA TABLE		
PARTICULARS	S.F.	%
BUILDING*	162,000	9.5
HARDSCAPE*	237,126	13.8
LANDSCAPE	1,313,176	76.7
DEDICATED	301,208	N/A
TOTAL	1,712,302	100

*BUILDING AND HARDSCAPE AREAS ASSUME A BUILDING FOOTPRINT OF 3,000 S.F. AND A HARDSCAPE OF 500 S.F. PER LOT (54 LOTS).

NOTE: SAWCUT WIDTH, LOCATIONS AND TIE-IN ELEVATIONS IN EXISTING HARDSCAPE ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATION AND EXTENT OF SAWCUTTING PRIOR TO CONSTRUCTION. NOTIFY CIVIL ENGINEER IF REVISIONS ARE REQUIRED. SEE NOTE 58 ON CGN.01 FOR FURTHER DETAIL.

NOTE: ALL WORK DONE IN PUBLIC ROADS TO BE DONE IN STRICT ACCORDANCE WITH WEBER COUNTY STANDARDS & SPECIFICATIONS.



NO.	DATE	DESCRIPTION
1	09/03/2020	PRELIMINARY PLAN
2	09/03/2020	NOT FOR CONSTRUCTION

SCALE MEASURES IN CH ON FULL SIZE SHEETS
ADJUST ACCORDINGLY FOR REDUCED SIZE SHEETS

PRELIMINARY PLAN
NOT FOR CONSTRUCTION

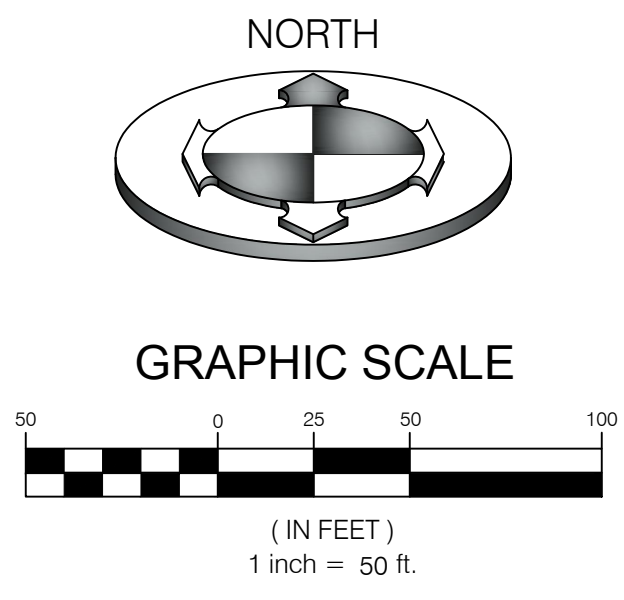
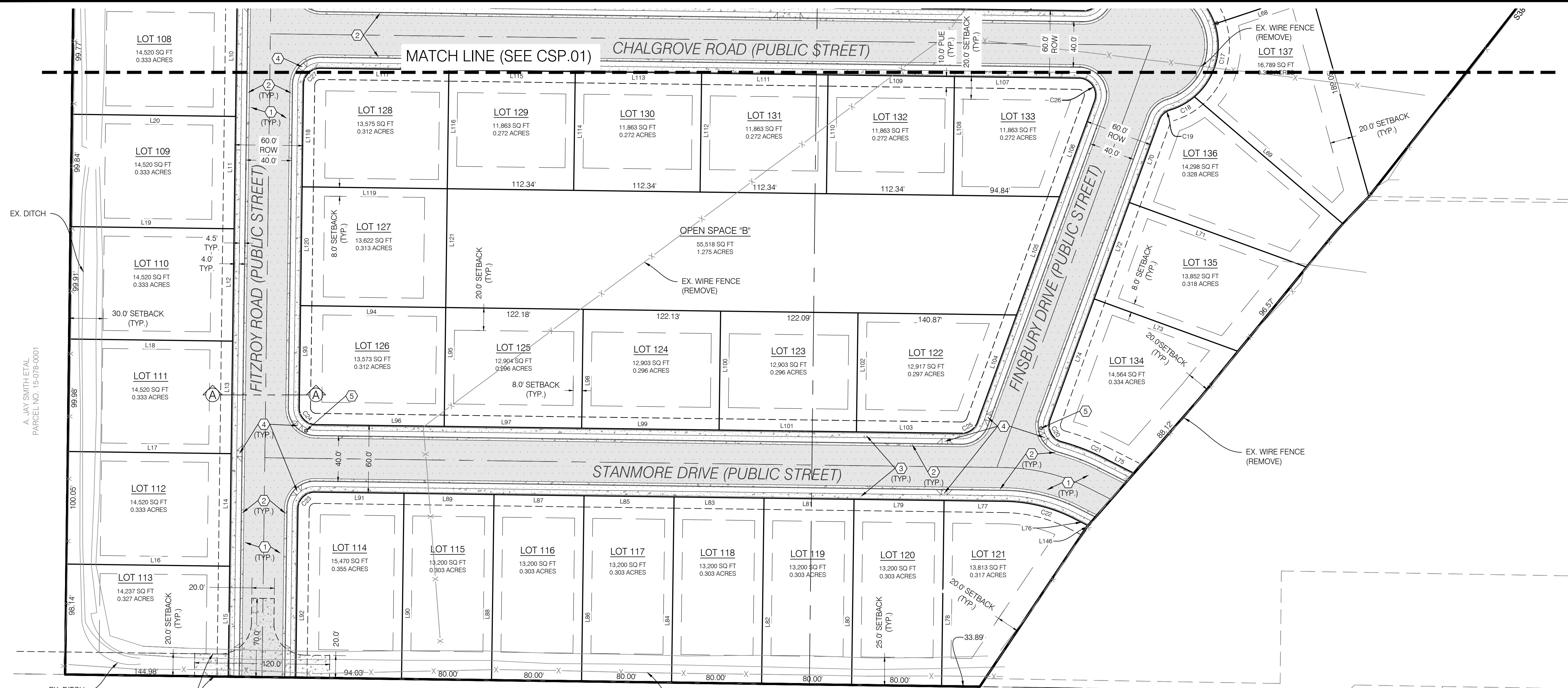
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9198 SOUTH STATE STREET SUITE #100
SANDY, UTAH 84707 (801) 542-7192
www.benchmarkcivil.com

WINSTON PARK
3701 W 1800 S
WEBER COUNTY, UTAH

PROJECT NO. 2006142
SITE PLAN
CSP.01
3 OF 20



NOTE: SEE CURVE TABLE AND PARCEL LINE TABLE, CSP.02.



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1	09/03/2020	PRELIMINARY PLAN

SCALE MEASURES IN CH ON FULL SIZE SHEETS
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PRELIMINARY
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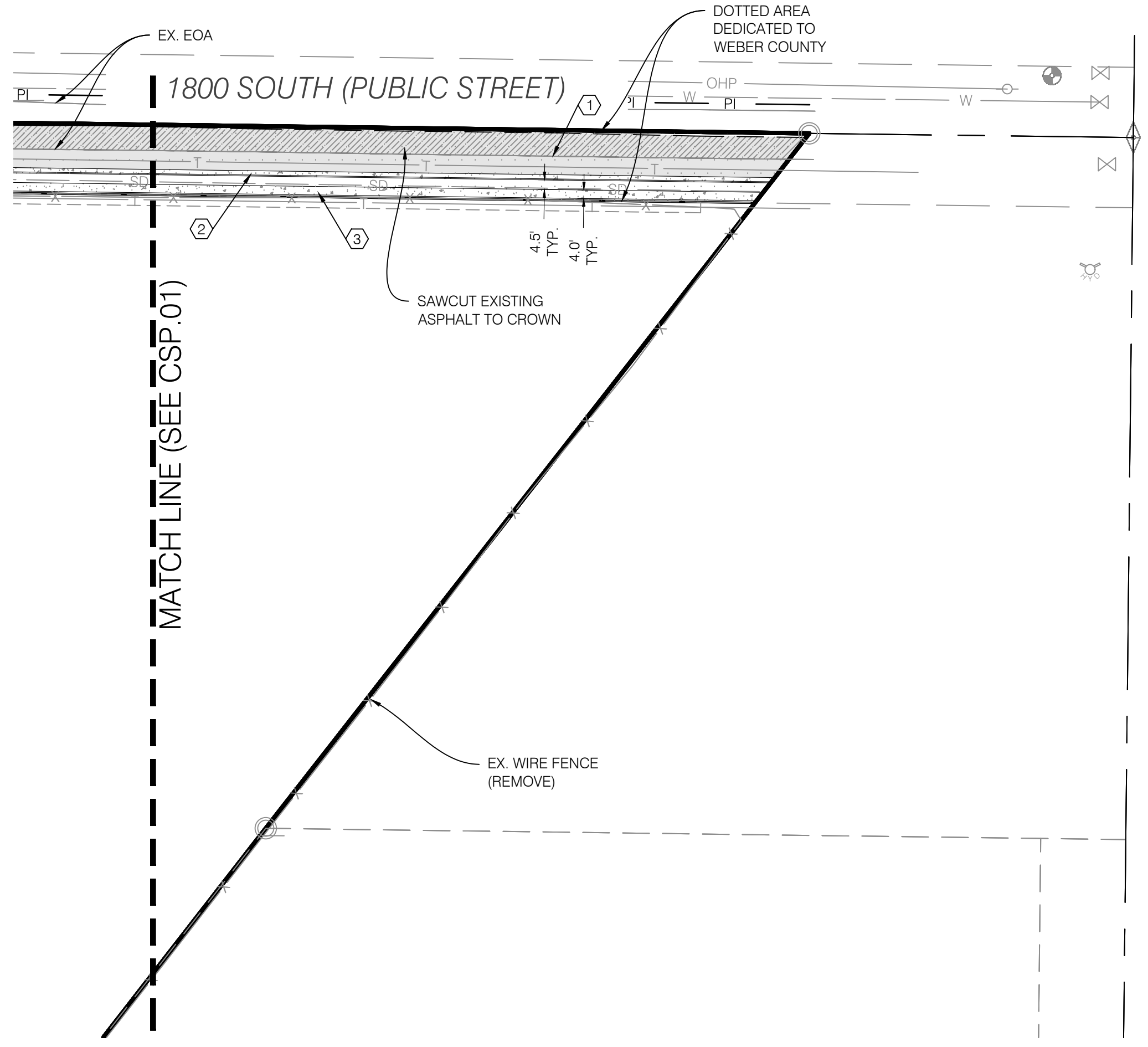
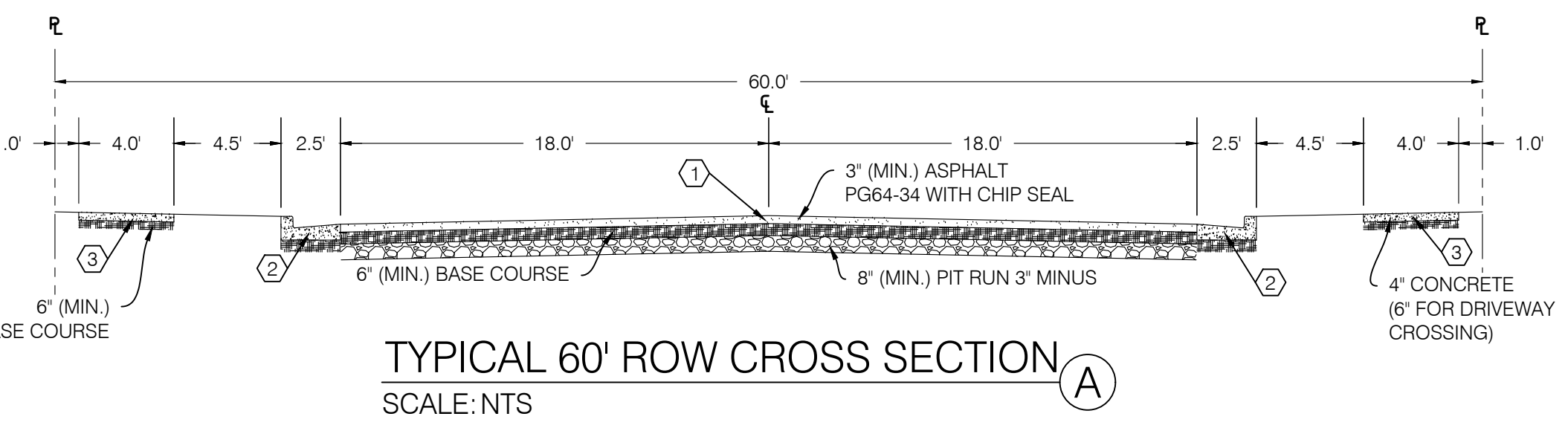
LINE #	BEARING	DISTANCE
L1	S 63°09'18" E	22.14'
L2	S 89°15'08" E	126.29'
L3	S 00°44'52" W	79.88'
L4	S 00°44'52" W	99.36'
L5	S 00°44'52" W	99.43'
L6	S 00°44'52" W	99.50'
L7	S 00°44'52" W	99.56'
L8	S 00°44'52" W	99.63'
L9	S 00°44'52" W	99.70'
L10	S 00°44'52" W	99.77'
L11	S 00°44'52" W	99.84'
L12	S 00°44'52" W	99.91'
L13	S 00°44'52" W	99.98'
L14	S 00°44'52" W	100.05'
L15	S 00°44'52" W	98.18'
L16	N 89°15'08" W	145.08'
L17	S 89°15'08" E	145.18'
L18	N 89°15'08" E	145.28'
L19	S 89°15'08" E	145.38'
L20	N 89°15'08" W	145.48'
L21	S 89°15'08" E	145.58'
L22	N 89°15'08" W	145.68'
L23	S 89°15'08" E	145.79'
L24	N 89°15'08" W	145.89'
L25	S 89°15'08" E	145.99'
L26	N 89°15'08" W	146.09'
L27	S 89°15'08" E	146.19'
L28	S 00°44'52" W	77.03'
L29	S 00°44'52" W	96.78'
L30	S 00°44'52" W	96.98'
L31	S 00°44'52" W	82.73'
L32	S 89°15'08" E	133.13'
L33	S 89°15'08" E	133.13'
L34	S 89°15'08" E	133.13'
L35	S 00°44'52" W	96.98'
L36	S 00°44'52" W	97.73'
L37	S 00°44'52" W	109.50'
L38	S 89°15'08" E	118.13'
L39	S 89°15'08" E	47.61'
L40	N 22°57'51" E	92.69'

CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE
C1	77.39'	170.00'	26°04'54"	N 76°11'45" W	76.72'
C2	31.42'	20.00'	90°00'00"	N 44°15'08" W	28.28'
C3	31.42'	20.00'	90°00'00"	S 45°44'52" W	28.28'
C4	23.56'	15.00'	90°00'00"	S 44°15'08" E	21.21'
C5	13.60'	15.00'	51°56'37"	N 64°46'33" E	13.14'
C6	75.07'	58.00'	74°09'36"	S 75°53'03" W	69.94'
C7	70.98'	58.00'	70°06'57"	N 31°58'41" W	66.63'
C8	70.33'	58.00'	69°28'26"	N 37°49'01" E	66.10'
C9	71.00'	58.00'	70°08'15"	S 72°22'39" E	66.65'
C10	13.60'	15.00'	51°56'37"	N 63°16'50" W	13.14'
C11	23.56'	15.00'	90°00'00"	S 45°44'52" W	21.21'
C12	287.38'	58.00'	283°53'13"	N 00°44'52" E	71.51'
C13	23.56'	15.00'	90°00'00"	S 44°15'08" E	21.21'
C14	13.91'	15.00'	53°07'48"	N 64°10'57" E	13.42'
C15	61.00'	60.00'	58°15'11"	S 66°44'39" W	58.41'
C16	68.77'	60.00'	65°40'01"	N 51°17'46" W	65.06'
C17	71.36'	60.00'	68°08'43"	N 15°36'37" E	67.23'
C18	24.58'	60.00'	23°28'25"	N 61°25'11" E	24.41'
C19	13.91'	15.00'	53°07'48"	S 46°35'29" W	13.42'
C20	24.81'	15.00'	94°46'35"	S 27°21'43" E	22.08'
C21	40.47'	200.00'	11°35'42"	N 68°57'09" W	40.41'
C22	63.73'	140.00'	26°04'54"	N 76°11'45" W	63.18'
C23	23.57'	15.00'	90°00'57"	S 45°45'20" W	21.22'
C24	23.56'	15.00'	89°59'03"	S 44°14'40" E	21.21'
C25	18.52'	15.00'	70°44'14"	N 55°23'42" E	17.37'
C26	28.61'	15.00'	109°16'43"	N 34°36'47" W	24.47'
C27	23.56'	15.00'	90°00'00"	S 45°44'52" W	21.21'
C28	225.71'	60.00'	215°32'20"	N 34°36'47" W	114.28'

NO.	DESCRIPTION	DETAIL
①	ASPHALT PAVEMENT (PG64-34) WITH CHIP SEAL PER WEBER COUNTY PUBLIC STDS.	1/CDT.01
②	CONCRETE CURB AND GUTTER PER WEBER COUNTY PUBLIC STDS.	2/CDT.01
③	SIDEWALK PER WEBER COUNTY PUBLIC STDS.	2/CDT.01
④	ADA RAMP PER WEBER COUNTY PUBLIC STDS.	4/CDT.01
⑤	LIGHTPOLE (TO BE OWNED AND MAINTAINED BY HOA)	
⑥	TYPICAL "B" DRIVE APPROACH PER WEBER COUNTY PUBLIC STDS.	3/CDT.01
⑦	GRAVEL ACCESS ROAD/PATHWAY	1/CDT.01

PARTICULARS	S.F.	%
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WINSTON PARK
 3701 W 1800 S
 WEBER COUNTY, UTAH

PROJECT NO. 2006142

SITE
 PLAN
 CSP.02
 4 OF 20

CONSTRUCTION KEY NOTE REFERENCE		
NO	DESCRIPTION	DETAIL
(1)	8" PVC C-900 CULINARY WATER MAIN	
(2)	1" POLY WATER SERVICE LINE (FROM MAIN TO METER)	
(3)	1" WATER METER PER TAYLOR WEST WEBER WATER DISTRICT STDS.	
(4)	1" POLY WATER SERVICE LINE (FROM METER TO LOT)	
(5)	6" PVC C-900 FIRELINE	
(6)	FIRE HYDRANT PER WEBER COUNTY ENGINEERING STDS.	
(7)	THRUST BLOCK PER TAYLOR WEST WEBER WATER DISTRICT STDS.	
(8)	GATE VALVE PER TAYLOR WEST WEBER WATER DISTRICT STDS.	
(9)	BLOW OFF VALVE PER TAYLOR WEST WEBER WATER DISTRICT STDS.	
(10)	8" PVC SDR-35 SEWER MAIN PER WEBER COUNTY ENGINEERING STDS.	
(11)	4" PVC SDR-35 SEWER LATERAL (2% MIN SLOPE)	
(12)	4" SSMH PER WEBER COUNTY ENGINEERING STDS.	
(13)	5" SSMH PER WEBER COUNTY ENGINEERING STDS.	
(14)	STREET LIGHT PER WEBER COUNTY STDS.	
(15)	12" PVC C-900 PRESSURIZED IRRIGATION PIPE PER HOOPER IRRIGATION STDS.	1/CDT.02
(16)	8" PVC C-900 PRESSURIZED IRRIGATION PIPE PER HOOPER IRRIGATION STDS.	1/CDT.02
(17)	THRUST BLOCK PER HOOPER IRRIGATION STDS.	1/CDT.02
(18)	GATE VALVE PER HOOPER IRRIGATION STDS.	1/CDT.02
(19)	BLOW OFF VALVE PER HOOPER IRRIGATION STDS.	1/CDT.02
(20)	12" PVC SDR-35 SEWER MAIN PER WEBER COUNTY ENGINEERING STDS.	
(21)	8"x6" REDUCER	
(22)	8"x8"x8" TEE	
(23)	8"x8"x6" TEE	

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.

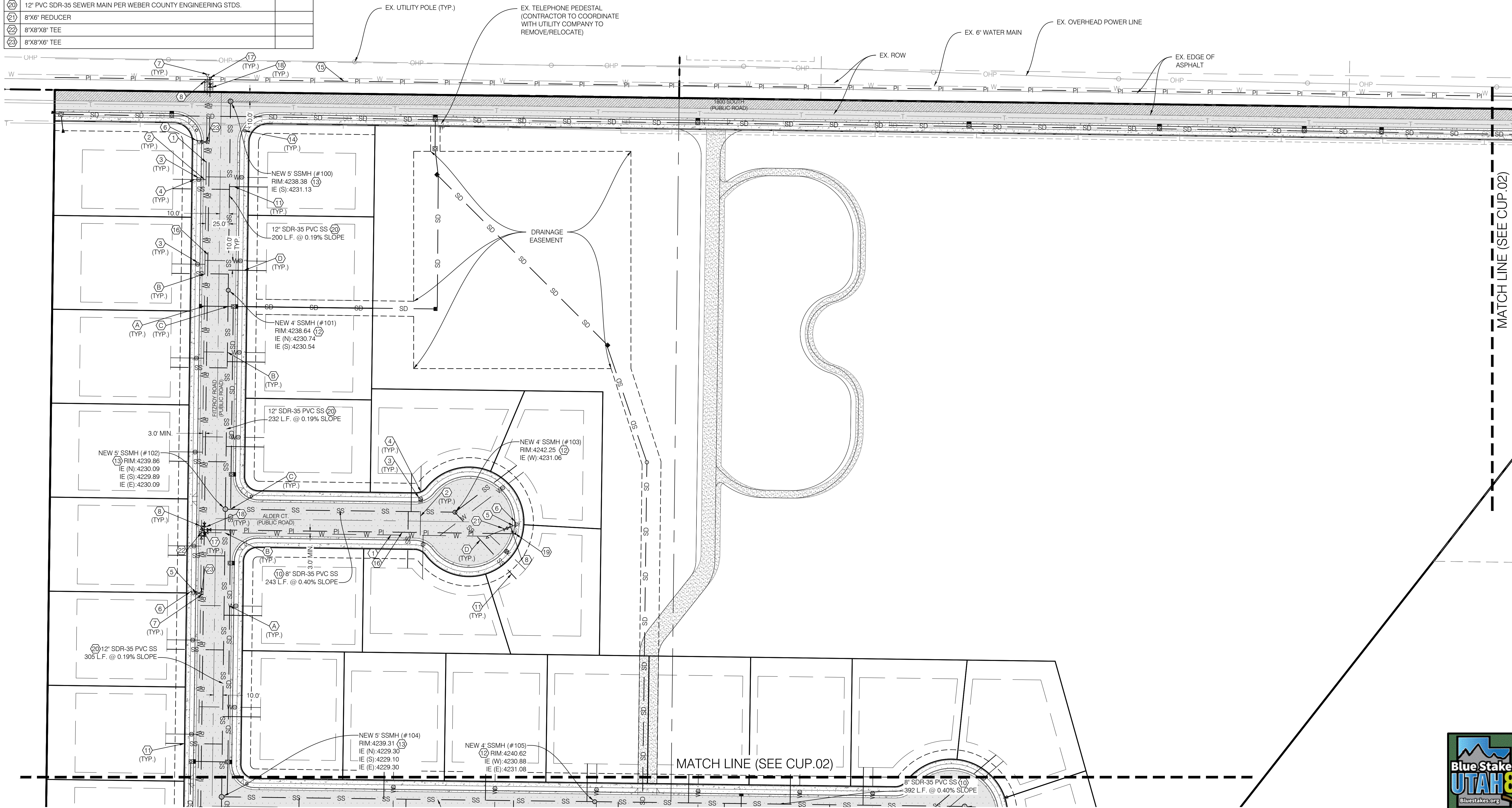
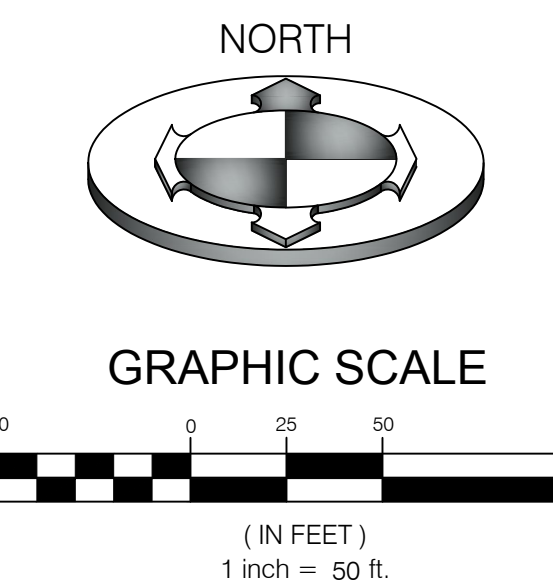
NOTE:
POTHOLE TO IDENTIFY ANY CONFLICTS BEFORE ANY PIPE INSTALLATION. CONTACT ENGINEER IF ANY CONFLICTS ARE IDENTIFIED.

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

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

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

NOTE D:
SEWER CLEANOUTS MUST BE PROVIDED EVERY 50' ON 4" SEWER LATERALS



MATCH LINE (SEE CUP.02)

MATCH LINE (SEE CUP.02)

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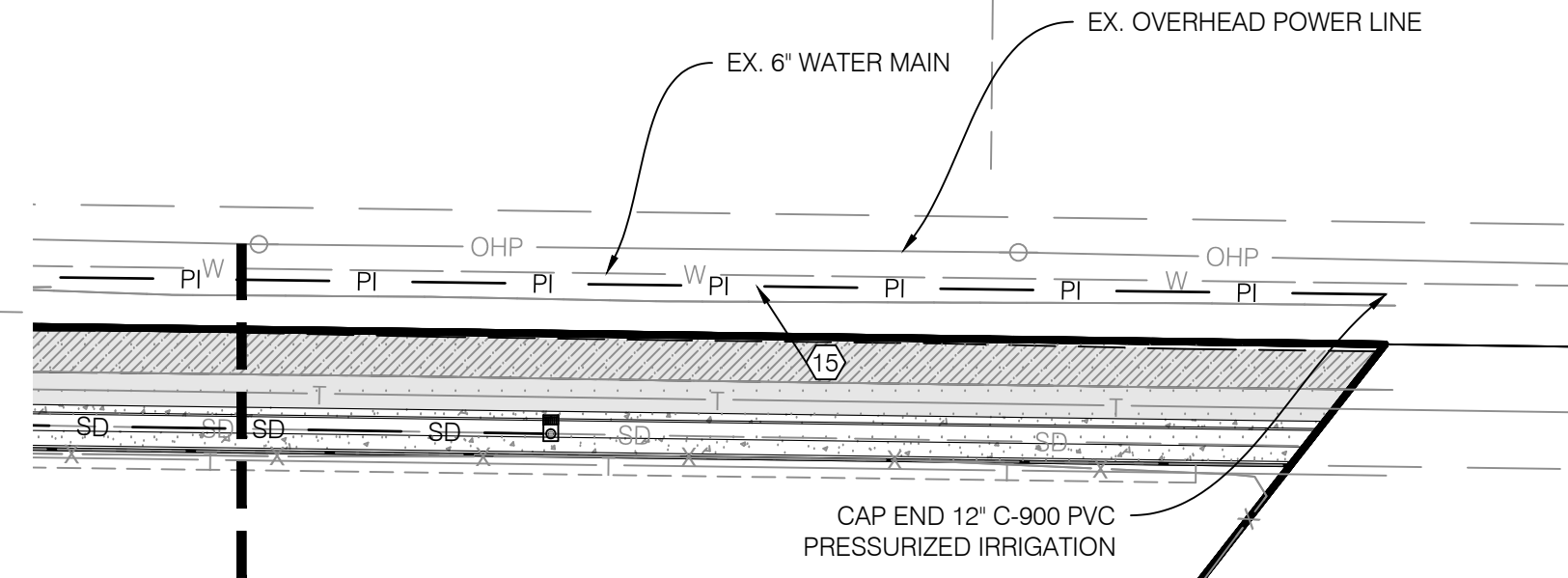
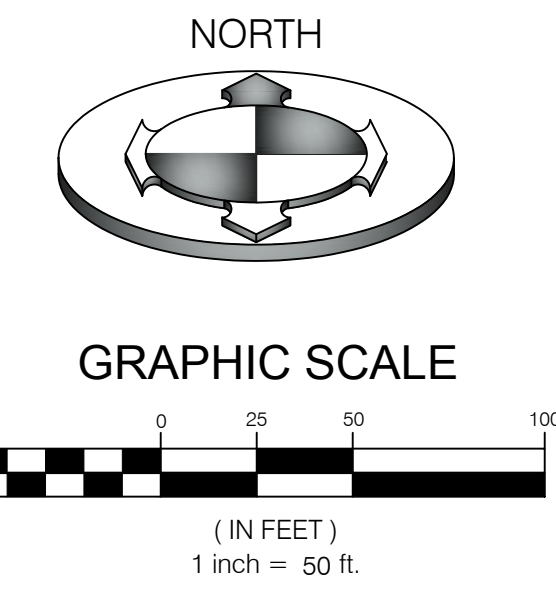
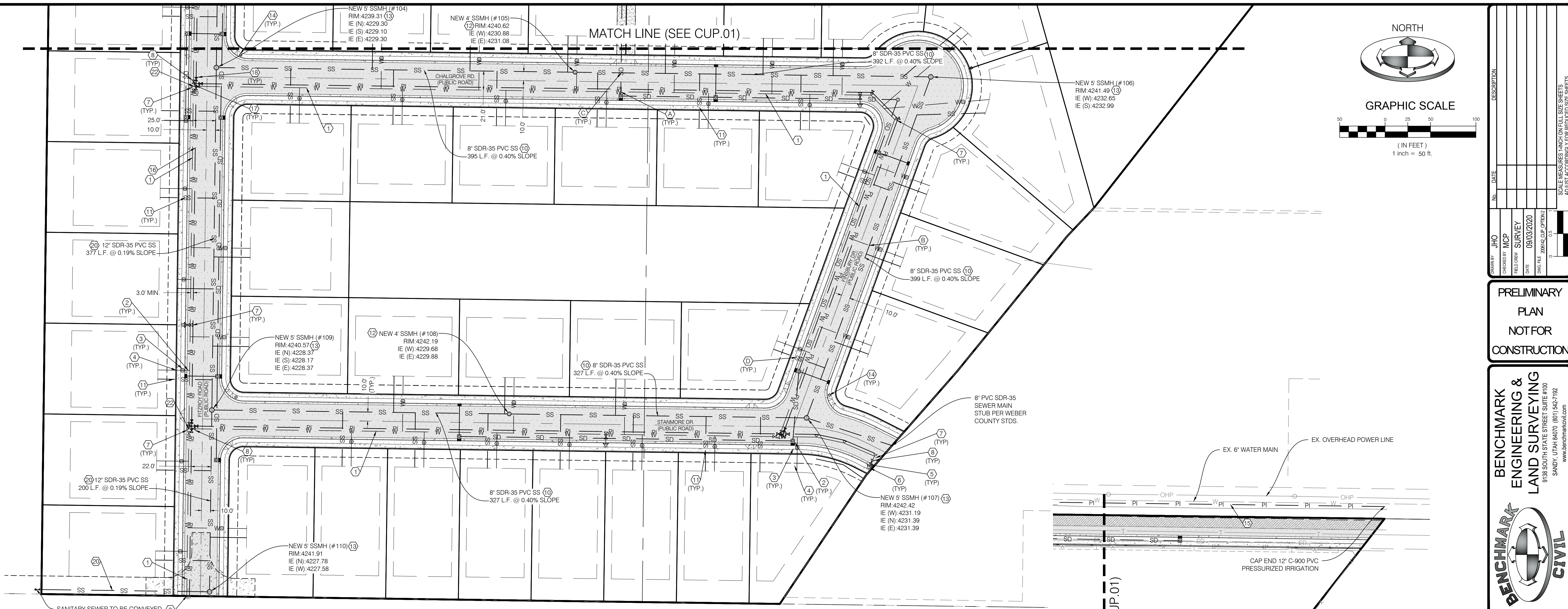
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PROJECT NO. 2006142
UTILITY
PLAN
CUP.01
5 OF 20





CONSTRUCTION KEY NOTE REFERENCE		
NO.	DESCRIPTION	DETAIL
1	8" PVC C-900 CULINARY WATER MAIN	
2	1" POLY WATER SERVICE LINE (FROM MAIN TO METER)	
3	1" WATER METER PER TAYLOR WEST WEBER WATER DISTRICT STDS.	
4	1" POLY WATER SERVICE LINE (FROM METER TO LOT)	
5	6" PVC C-900 FIRELINE	
6	FIRE HYDRANT PER WEBER COUNTY ENGINEERING STDS.	
7	THRUST BLOCK PER TAYLOR WEST WEBER WATER DISTRICT STDS.	
8	GATE VALVE PER TAYLOR WEST WEBER WATER DISTRICT STDS.	
9	BLOW OFF VALVE PER TAYLOR WEST WEBER WATER DISTRICT STDS.	
10	8" PVC SDR-35 SEWER MAIN PER WEBER COUNTY ENGINEERING STDS.	
11	4" PVC SDR-35 SEWER LATERAL (2% MIN SLOPE)	
12	4" SSMH PER WEBER COUNTY ENGINEERING STDS.	
13	5" SSMH PER WEBER COUNTY ENGINEERING STDS.	
14	STREET LIGHT PER WEBER COUNTY STDS.	
15	12" PVC C-900 PRESSURIZED IRRIGATION PIPE PER HOOPER IRRIGATION STDS.	1/CDT.02
16	8" PVC C-900 PRESSURIZED IRRIGATION PIPE PER HOOPER IRRIGATION STDS.	1/CDT.02
17	THRUST BLOCK PER HOOPER IRRIGATION STDS.	1/CDT.02
18	GATE VALVE PER HOOPER IRRIGATION STDS.	1/CDT.02
19	BLOW OFF VALVE PER HOOPER IRRIGATION STDS.	1/CDT.02
20	12" PVC SDR-35 SEWER MAIN PER WEBER COUNTY ENGINEERING STDS.	
21	8"x6" REDUCER	
22	8"x8"x8" TEE	
23	8"x8"x6" TEE	

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.

NOTE A:
12' OF VERTICAL SEPERATION REQUIRED BETWEEN STORM AND WATER LINES. LOOP WATER MAIN IF IN CONFLICT.

NOTE B:
18' OF VERTICAL SEPERATION REQUIRED BETWEEN SEWER AND WATER LINES. CONTACT ENGINEER FOR REDESIGN IF NECESSARY

NOTE C:
12' OF VERTICAL SEPERATION REQUIRED BETWEEN SEWER AND STORM. CONTACT ENGINEER FOR REDESIGN IF NECESSARY

NOTE D:
SEWER CLEANOUTS MUST BE PROVIDED EVERY 50' ON 4" SEWER LATERALS

NOTE:
POT HOLE TO IDENTIFY ANY CONFLICTS BEFORE ANY PIPE INSTALLATION. CONTACT ENGINEER IF ANY CONFLICTS ARE IDENTIFIED.

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PROJECT NO. 2006142

**UTILITY
PLAN**
CUP.02
6 OF 20



GRADING AND DRAINAGE KEY NOTE REFERENCE		
NO.	DESCRIPTION	DETAIL
1	GRADE SITE TO ELEVATIONS SHOWN ON PLAN	
2	8.5" ORIFICE PLATE	2/CDT.03
3	STORM DRAIN INLET BOX PER APWA #315.1	
4	STORM DRAIN CLEAN OUT	1/CDT.04
5	STORM DRAIN COMBO BOX PER APWA #316	
6	FLARED END SECTION	2/CDT.04
7	18" SNOUT	4/CDT.03
8	STORM DRAIN MAN-HOLE	

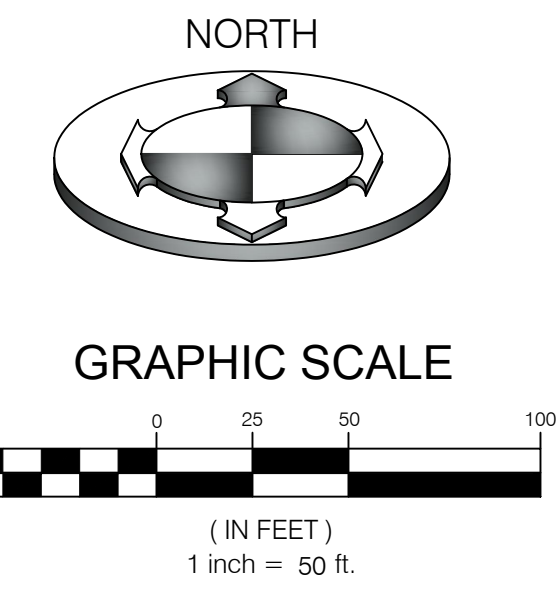
GRADING AND DRAINAGE KEY NOTE REFERENCE		
NO.	DESCRIPTION	DETAIL
9	15" Ø RCP CLASS III SD PIPE	
10	18" Ø RCP CLASS III SD PIPE	
11	21" Ø RCP CLASS III SD PIPE	
12	24" Ø RCP CLASS III SD PIPE	
13	12" Ø PERFORATED HDPE SD PIPE	3/CDT.04
14	3X3' CATCH BASIN	1/CDT.03
15	SERIES 37 IN-LINE CHECK VALVE OR APPROVED EQUAL	3/CDT.03

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

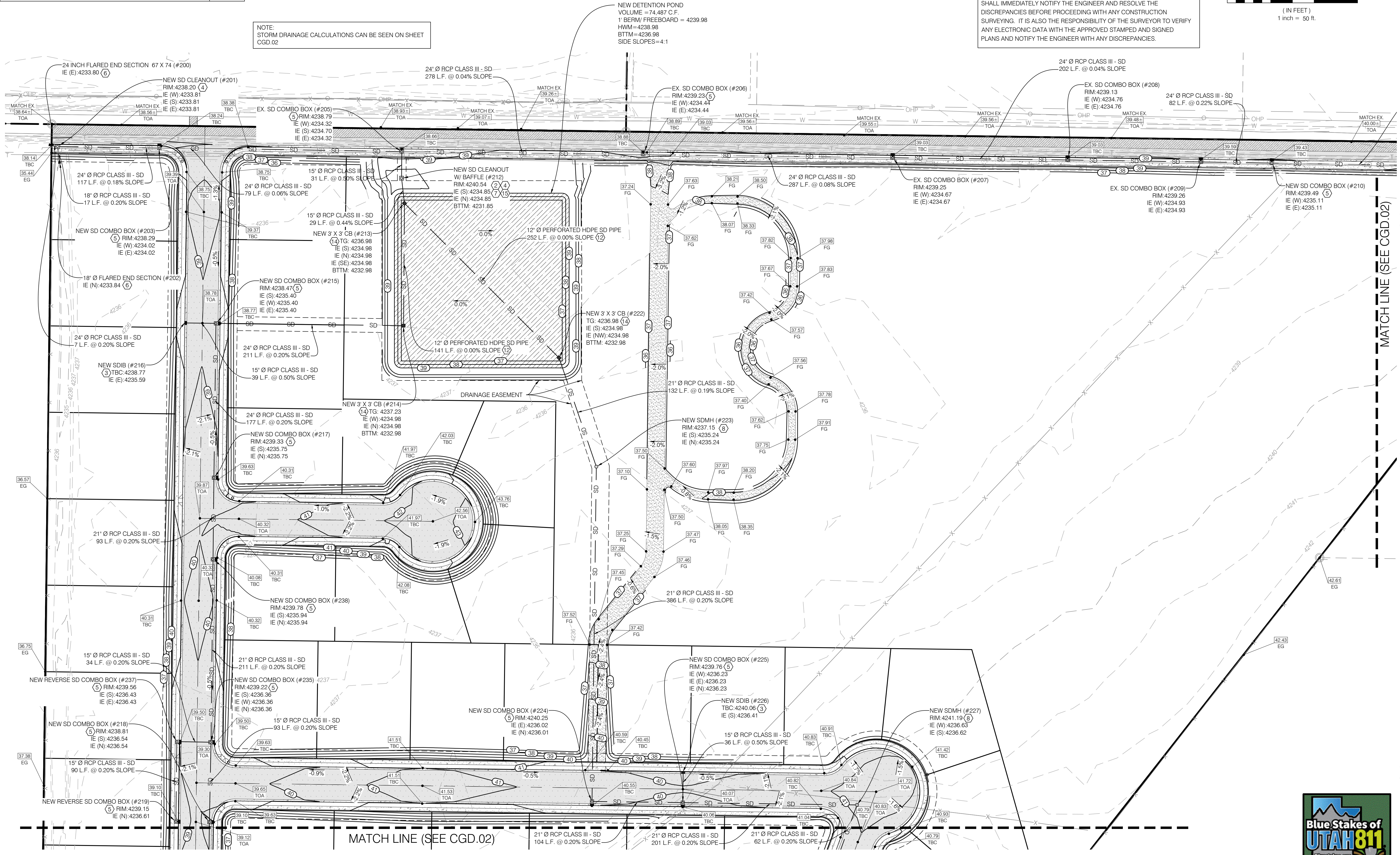
NOTE:
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NOTE:
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SURVEY CONTROL NOTE:
THE CONTRACTOR OR SURVEYOR PERFORMING THE CONSTRUCTION SURVEYING SHALL BE RESPONSIBLE TO PROVIDE CONSTRUCTION LAYOUT PER THE APPROVED PLANS ONLY. THE SURVEYOR SHALL 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.



NOTE:
STORM DRAINAGE CALCULATIONS CAN BE SEEN ON SHEET CGD.02



NO.	DATE	DESCRIPTION
1	09/03/2020	ISSUED FOR PERMIT
2	09/03/2020	ISSUED FOR CONSTRUCTION

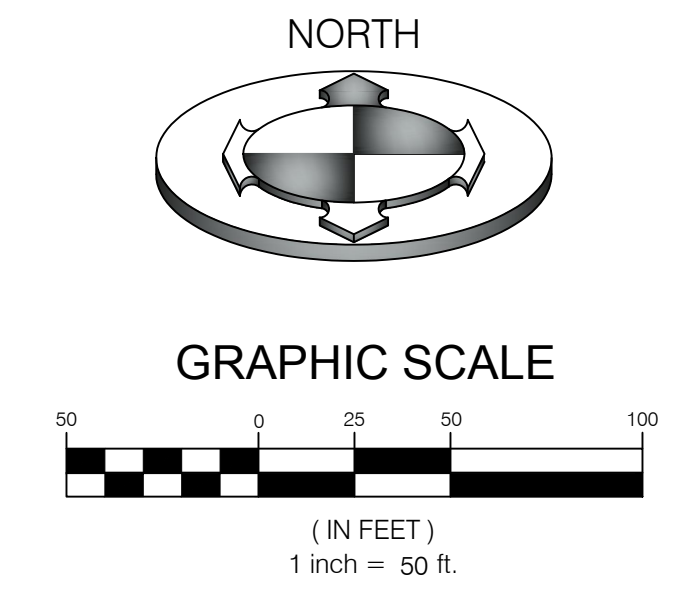
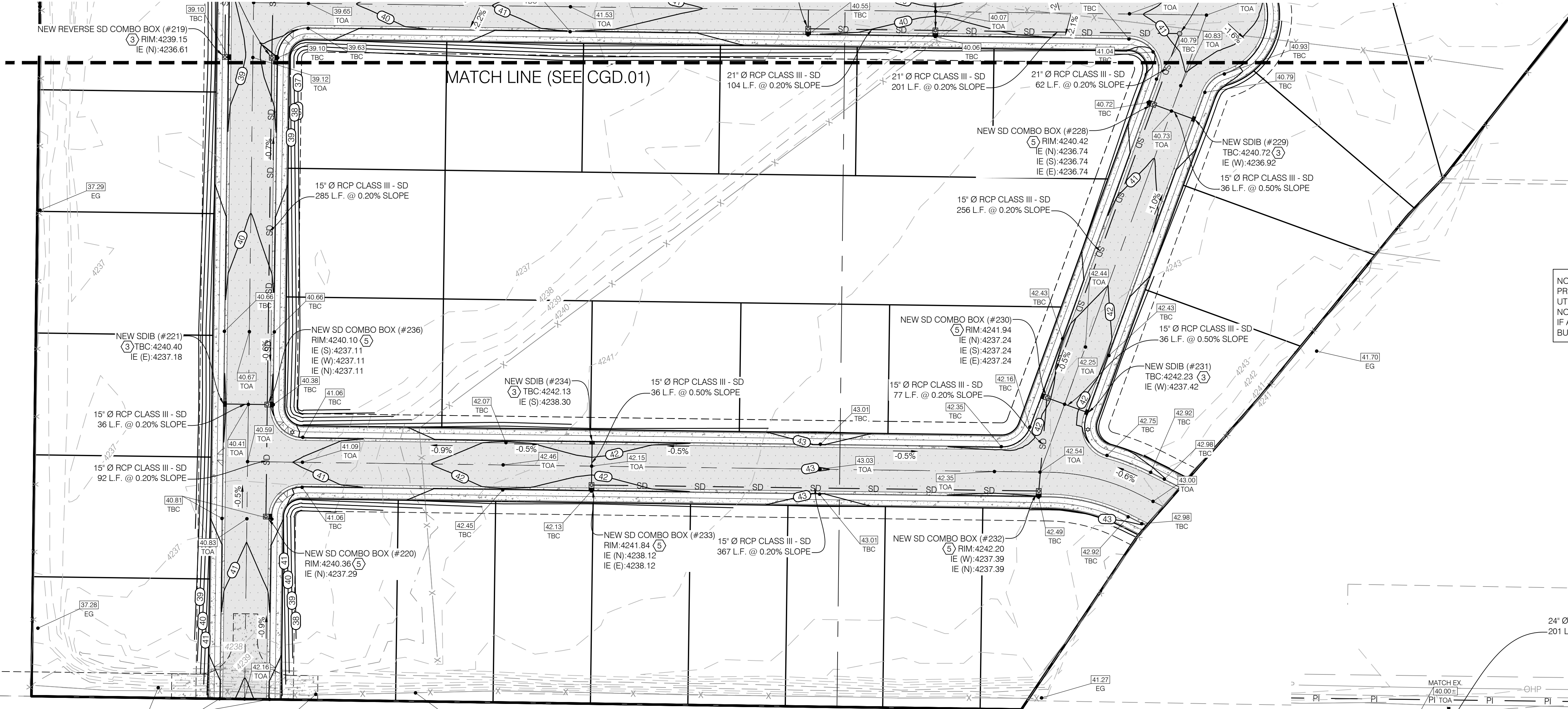
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PROJECT NO. 2006142
GRADING & DRAINAGE PLAN
CGD.01
7 OF 20





NOTE:
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NOTE:
SAWCUT WIDTH, LOCATIONS AND TIE-IN ELEVATIONS IN EXISTING HARDSCAPE ARE APPROXIMATE, CONTRACTOR TO FIELD VERIFY LOCATION AND EXTENT OF SAWCUTTING PRIOR TO CONSTRUCTION. NOTIFY CIVIL ENGINEER IF REVISIONS ARE REQUIRED. SEE NOTE 58 ON CGN.01 FOR FURTHER DETAIL.

NOTE:
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NO.	DATE	DESCRIPTION

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PROJECT NO. 2006142
 GRADING & DRAINAGE PLAN
 CGD.02
 8 OF 20

NO.	DESCRIPTION	DETAIL
1	GRADE SITE TO ELEVATIONS SHOWN ON PLAN	
2	8.5" ORIFICE PLATE	2/CDT.03
3	STORM DRAIN INLET BOX PER APWA #315.1	
4	STORM DRAIN CLEAN OUT	1/CDT.04
5	STORM DRAIN COMBO BOX PER APWA #316	
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7	18" SNOT	4/CDT.03
8	STORM DRAIN MANHOLE	
9	15" Ø RCP CLASS III SD PIPE	
10	18" Ø RCP CLASS III SD PIPE	
11	21" Ø RCP CLASS III SD PIPE	
12	24" Ø RCP CLASS III SD PIPE	
13	12" Ø PERFORATED HDPE SD PIPE	3/CDT.04
14	3'X3' CATCH BASIN	1/CDT.03
15	SERIES 37 IN-LINE CHECK VALVE OR APPROVED EQUAL	3/CDT.03

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

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STORM DRAINAGE CALCULATIONS
Rational Method (Q=CIA)

Area Identification (A)	Rational Coefficient (C)	C*A
Roof = 162,000	0.9	145,800 S.F.
Pavement = 237,126	0.9	213,413 S.F.
Landscaping = 1,313,176	0.2	262,635 S.F.
Sum = 1,712,302 S.F.		Sum = 621,848 S.F.

Time (min)	Intensity (in/hr)	Rainfall (inches)	Rainfall Excess (cu.ft.)	Allowed Discharge (cu.ft.)	Volume to Detain (cu.ft.)
15	4.10	1.025	53116	3538	49578
30	2.76	1.380	71513	7076	64437
60	1.71	1.710	88613	14151	74462
120	0.93	1.860	96387	28303	68084
180	0.64	1.905	98718	42454	56265
360	0.35	2.124	110067	84908	25160
720	0.22	2.604	134941	169815	0
1440	0.12	2.904	150487	339630	0

Detention Calculations
Pond Volume
 Detention Pond Civil 3D = **74,487 cf**

Pipe Volume

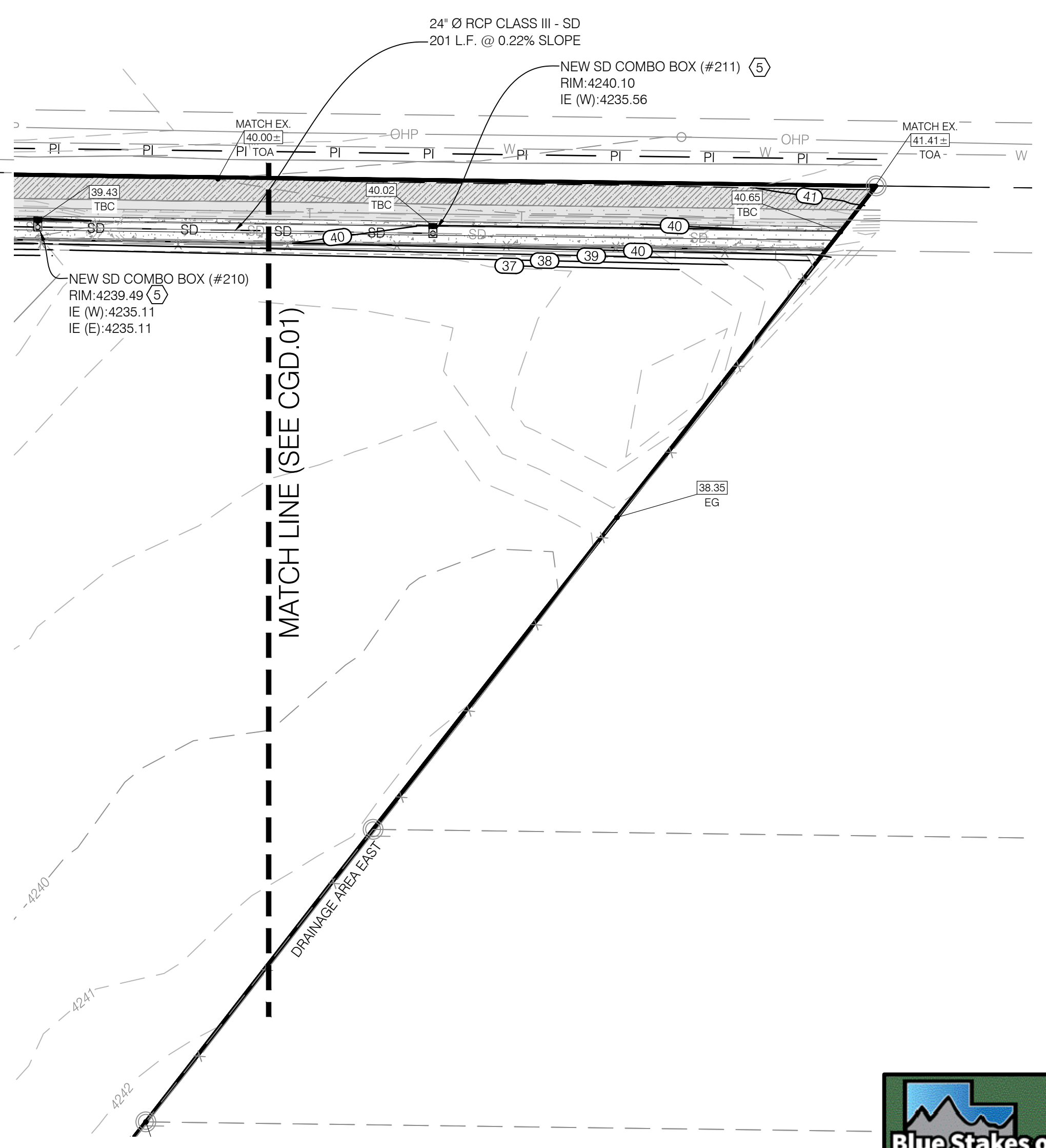
12 in. Pipe	Length = 393 lf	Volume = 309 cf
15 in. Pipe	Length = 1,513 lf	Volume = 1,857 cf
21 in. Pipe	Length = 1,189 lf	Volume = 2,860 cf
24 in. Pipe	Length = 388 lf	Volume = 1,219 cf

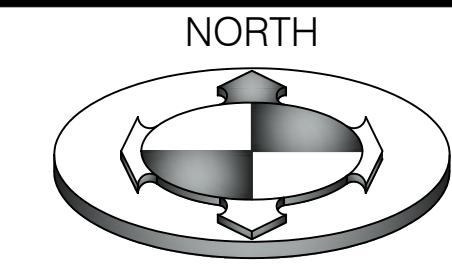
Is there adequate storage?
 Storage Provided = 80,731 cf
 Req. Storage = 74,462 cf **YES**

Orifice Design:
 The storm runoff will be detained at 0.1 cfs/acre

$$Q = C_d A_0 \sqrt{2gh}$$

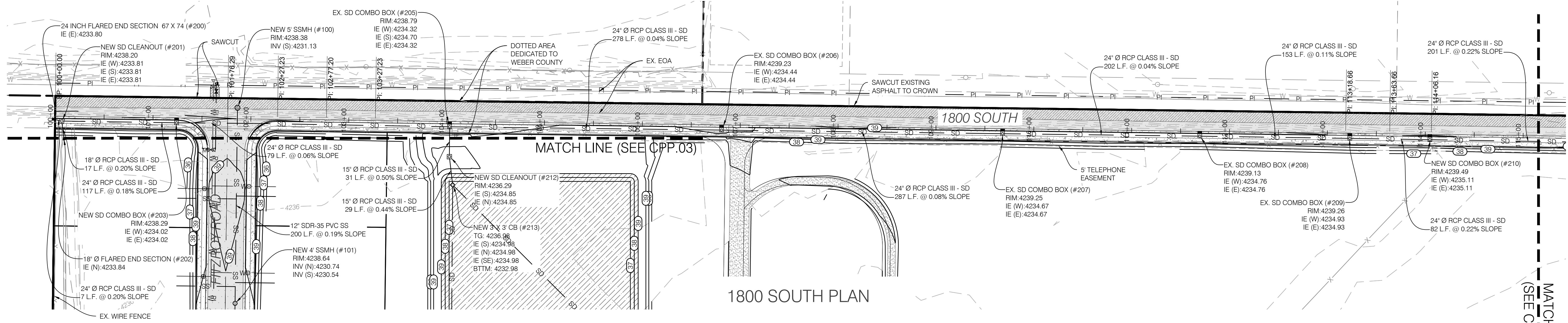
Total acreage of development:	39.31 acres
Allowable discharge:	0.1 cfs/acre
Max head:	4.13 ft
Design diameter for new orifice:	8.5 inch





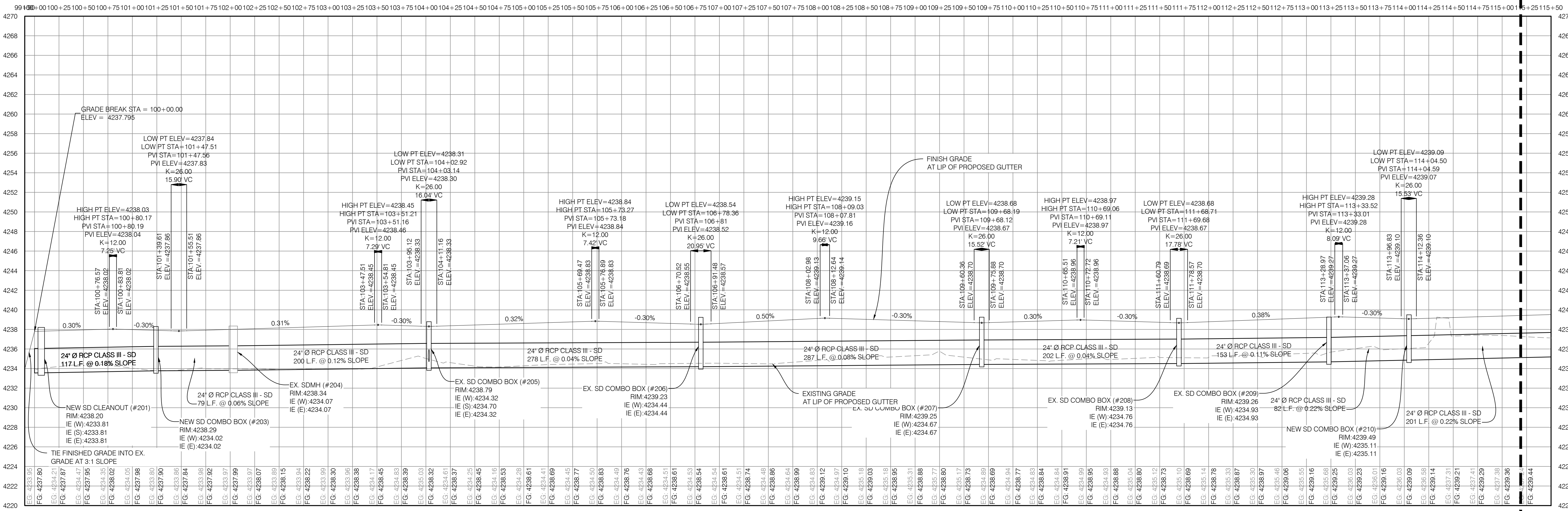
GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.



1800 SOUTH PLAN

STATION



1800 SOUTH PROFILE

NOTE:
SEE CURVE TABLE AND PARCEL LINE TABLE, CSP.02.

NO.	DATE	DESCRIPTION
1	09/03/2020	ISSUED FOR PERMIT
2	09/03/2020	REVISED PER COMMENTS
3	09/03/2020	REVISED PER COMMENTS
4	09/03/2020	REVISED PER COMMENTS
5	09/03/2020	REVISED PER COMMENTS
6	09/03/2020	REVISED PER COMMENTS
7	09/03/2020	REVISED PER COMMENTS
8	09/03/2020	REVISED PER COMMENTS
9	09/03/2020	REVISED PER COMMENTS
10	09/03/2020	REVISED PER COMMENTS
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15	09/03/2020	REVISED PER COMMENTS
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18	09/03/2020	REVISED PER COMMENTS
19	09/03/2020	REVISED PER COMMENTS
20	09/03/2020	REVISED PER COMMENTS

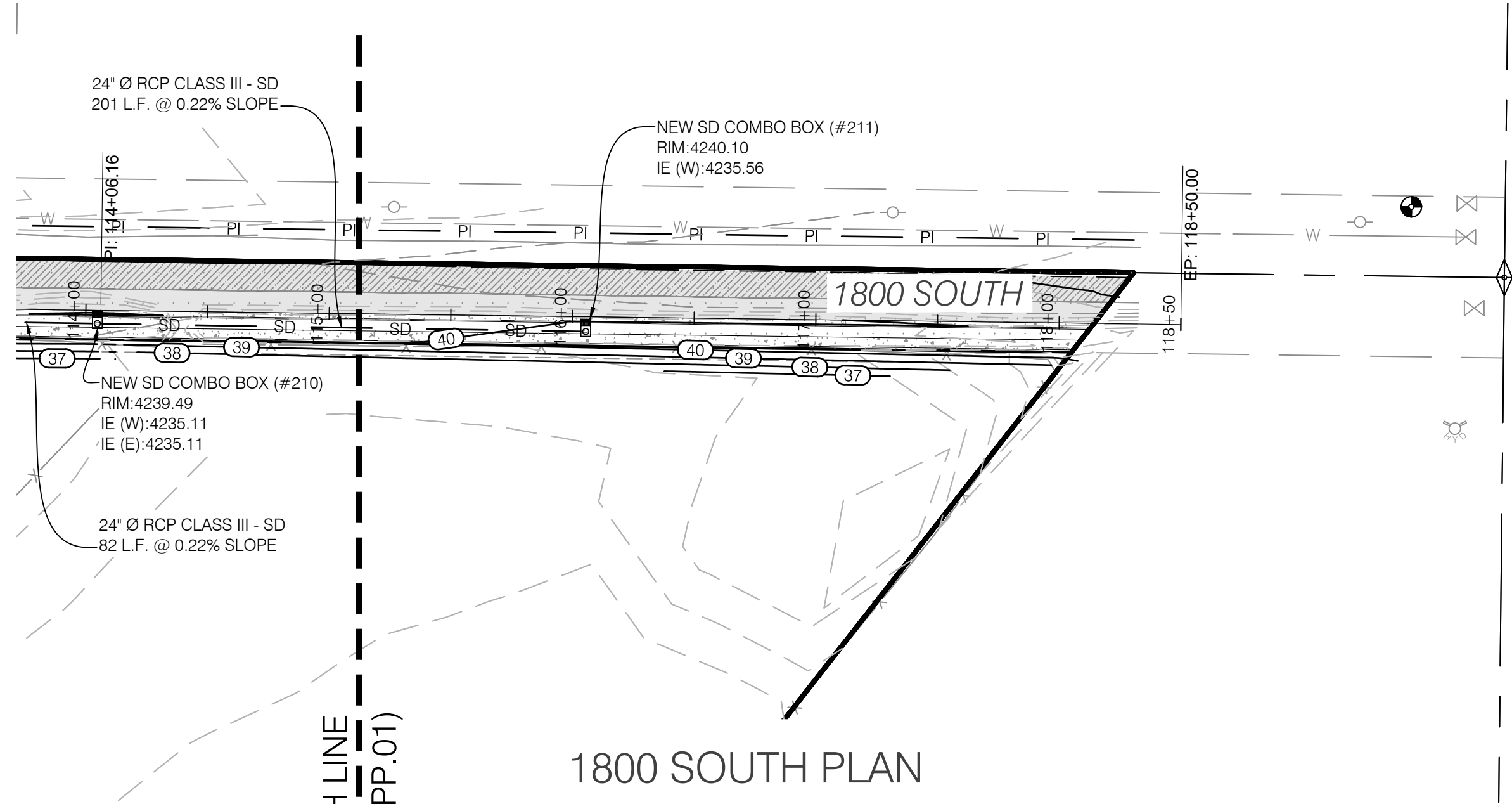
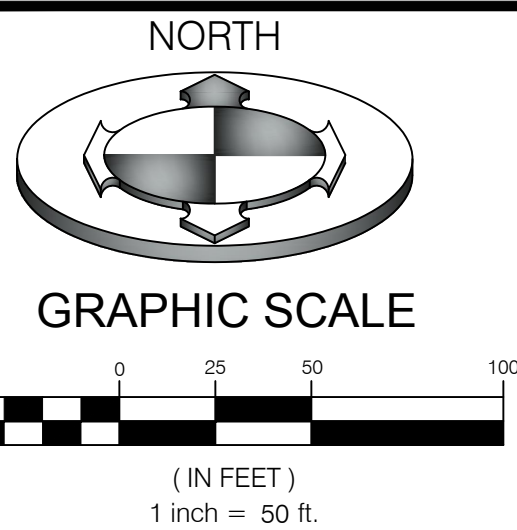
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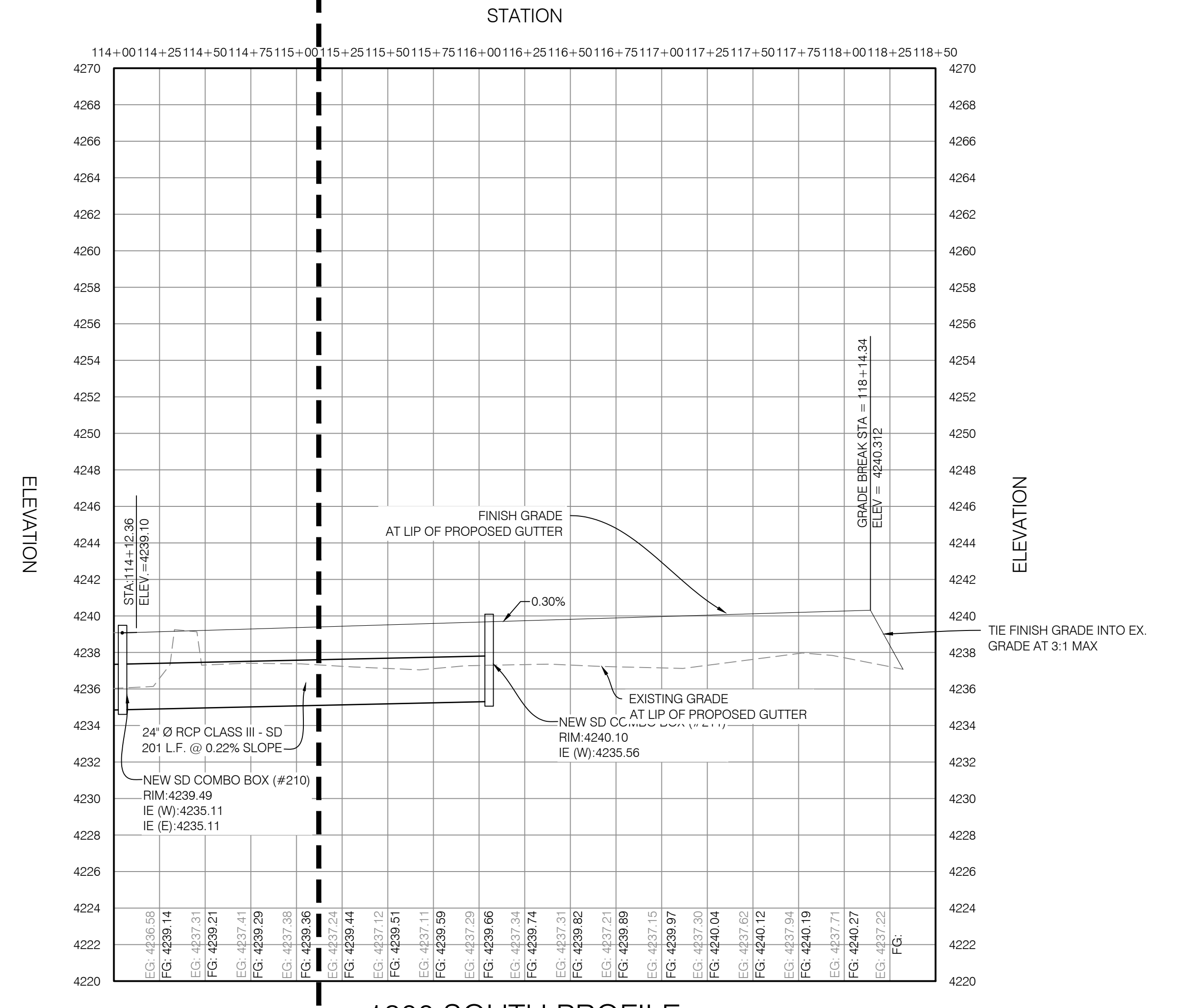
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PROJECT NO. 2006142
ROADWAY PLAN & PROFILE
CPP.01
9 OF 20

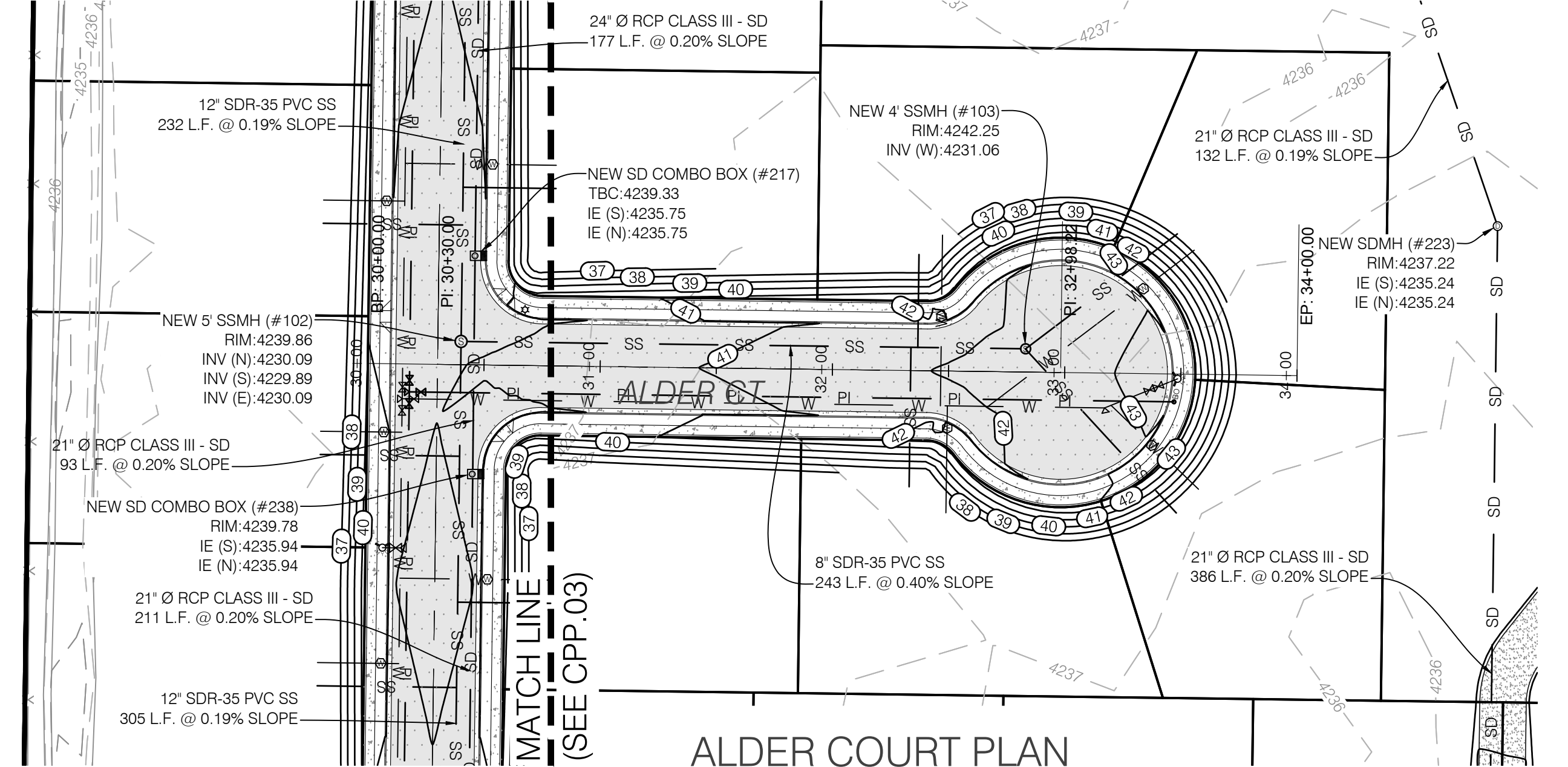
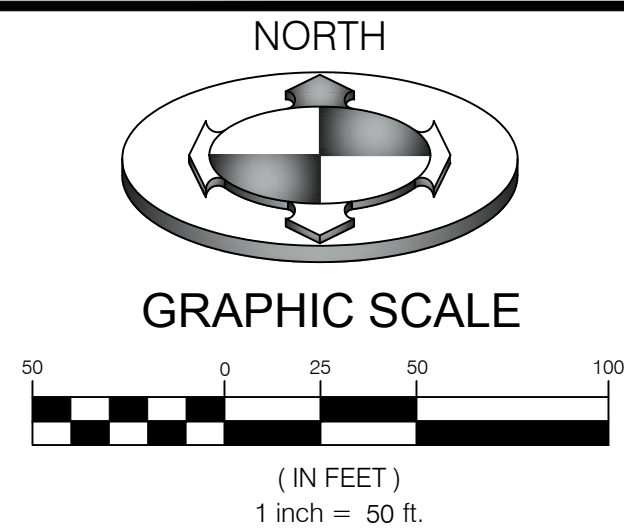




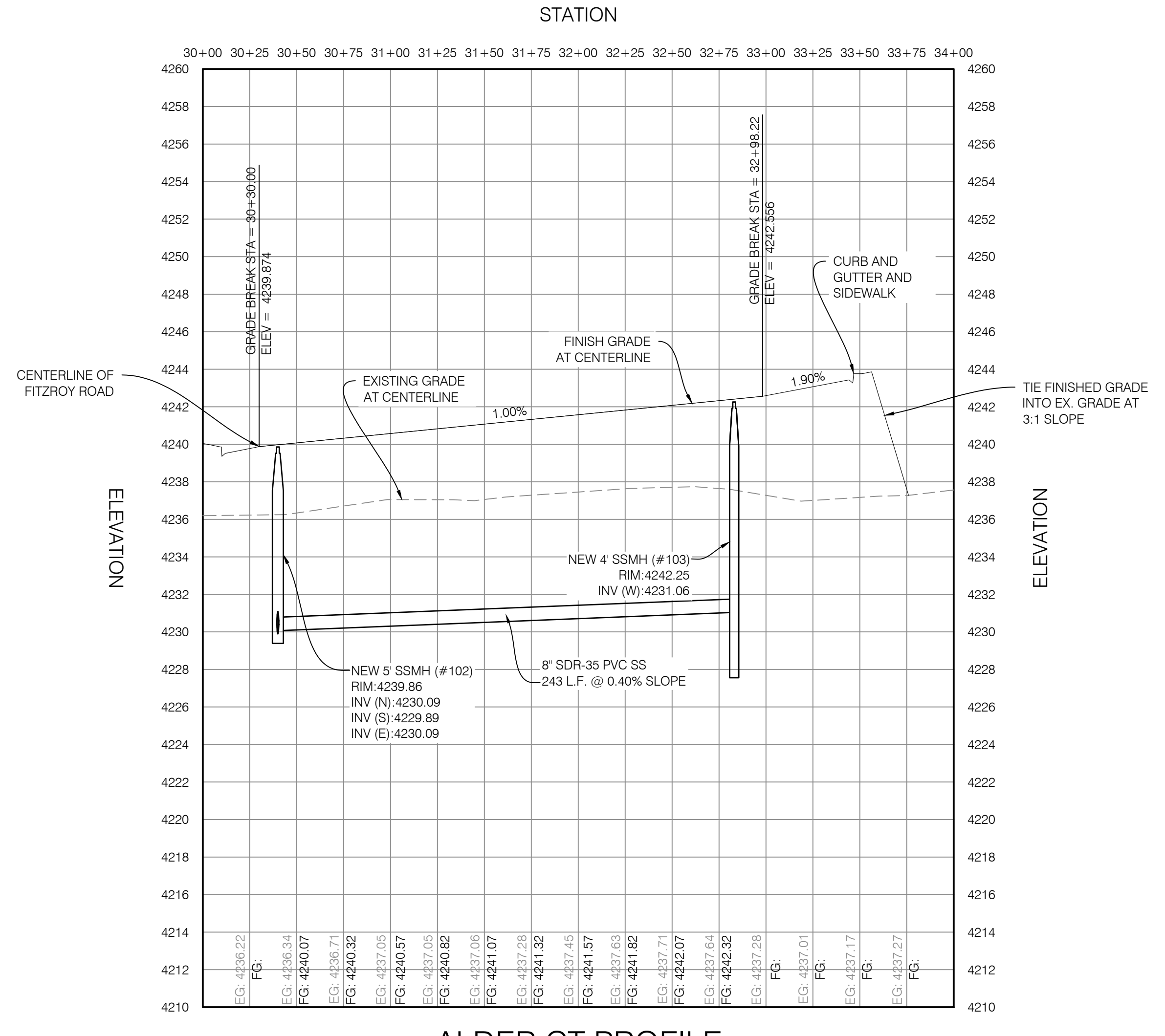
1800 SOUTH PLAN



1800 SOUTH PROFILE



ALDER COURT PLAN



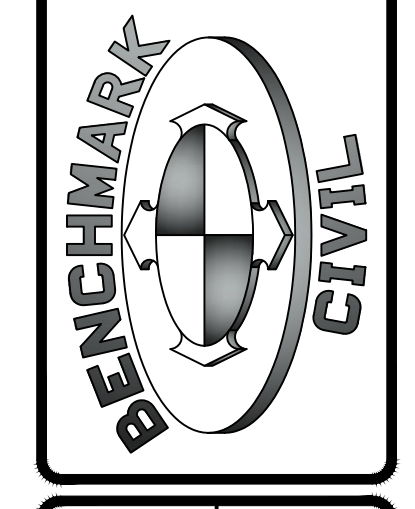
ALDER CT PROFILE

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SCALE MEASURES - INCH ON FULL SIZE SHEETS
ADJUST ACCORDINGLY FOR REDUCED SIZE SHEETS

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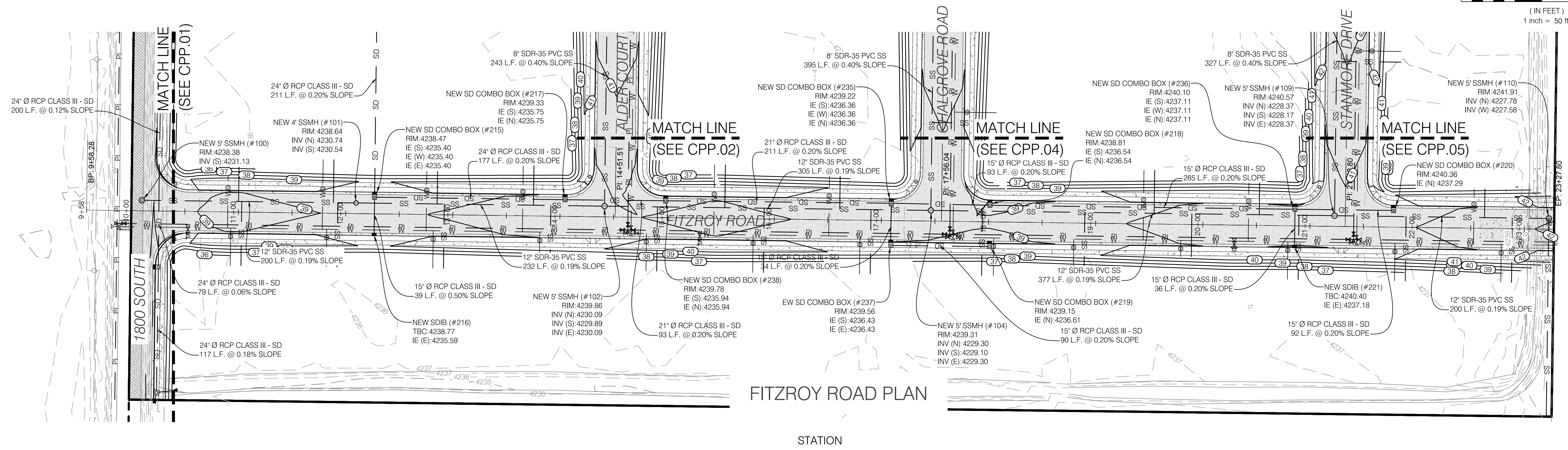
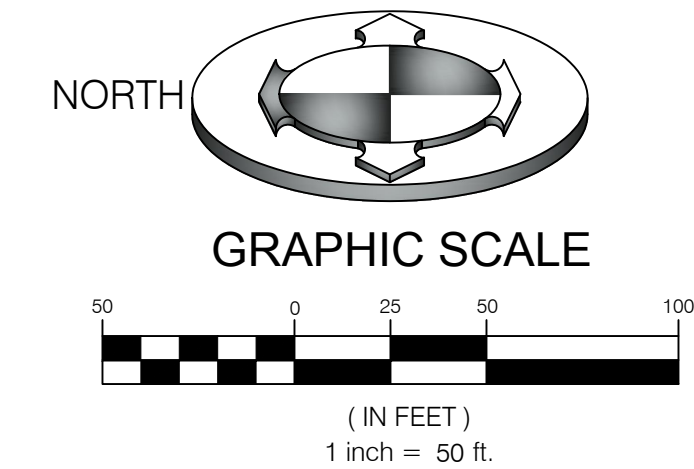
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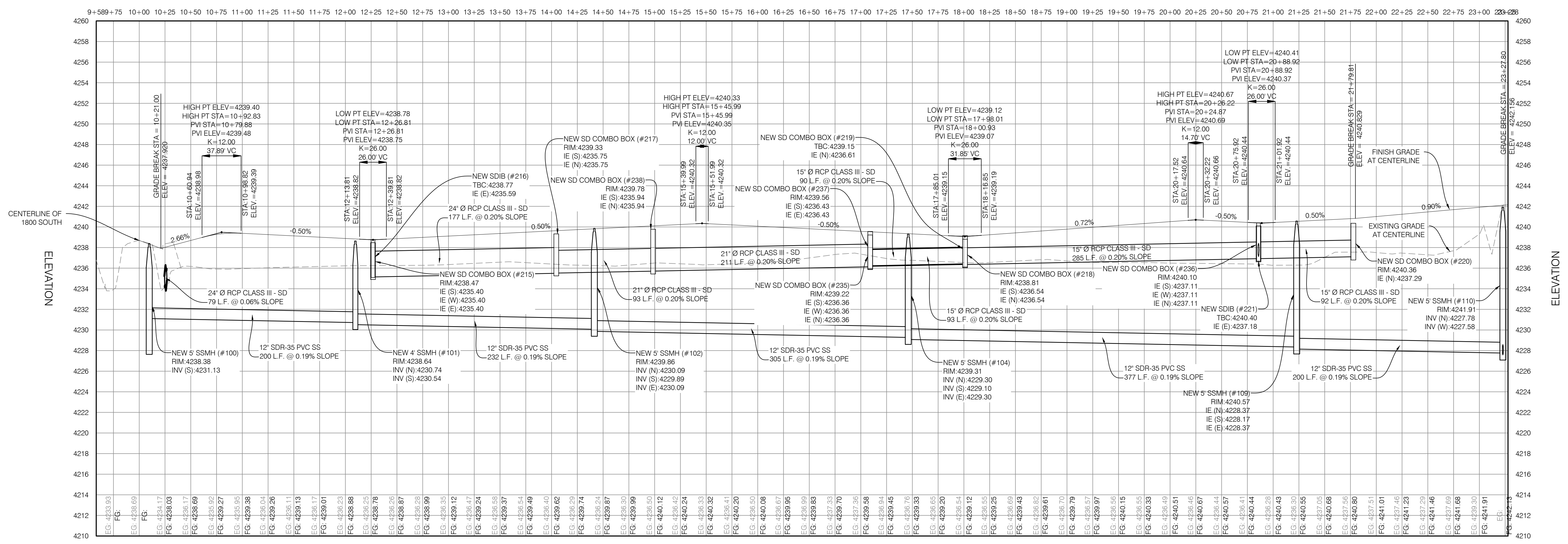
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ROADWAY PLAN & PROFILE
CPP.02
100F 20





FITZROY ROAD PLAN

STATION

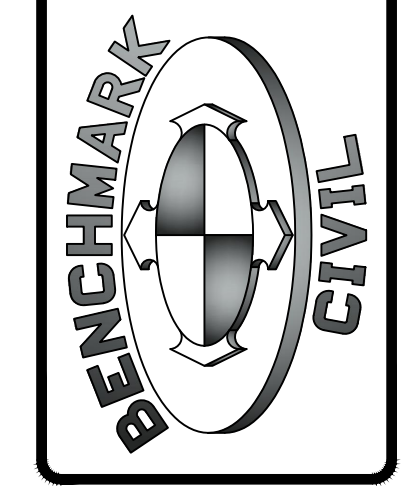


FITZROY ROAD PROFILE

NO.	DATE	DESCRIPTION

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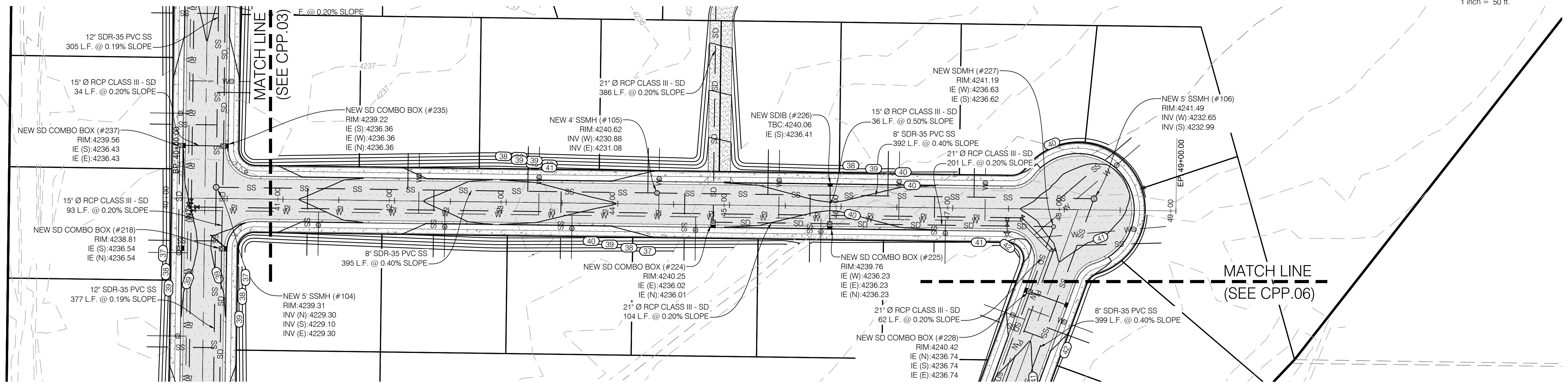
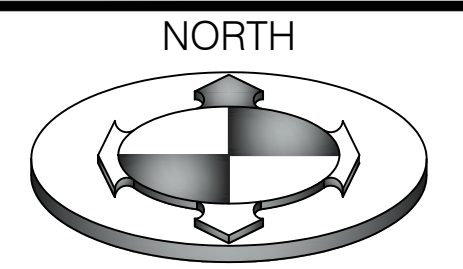
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PROJECT NO. 2006142

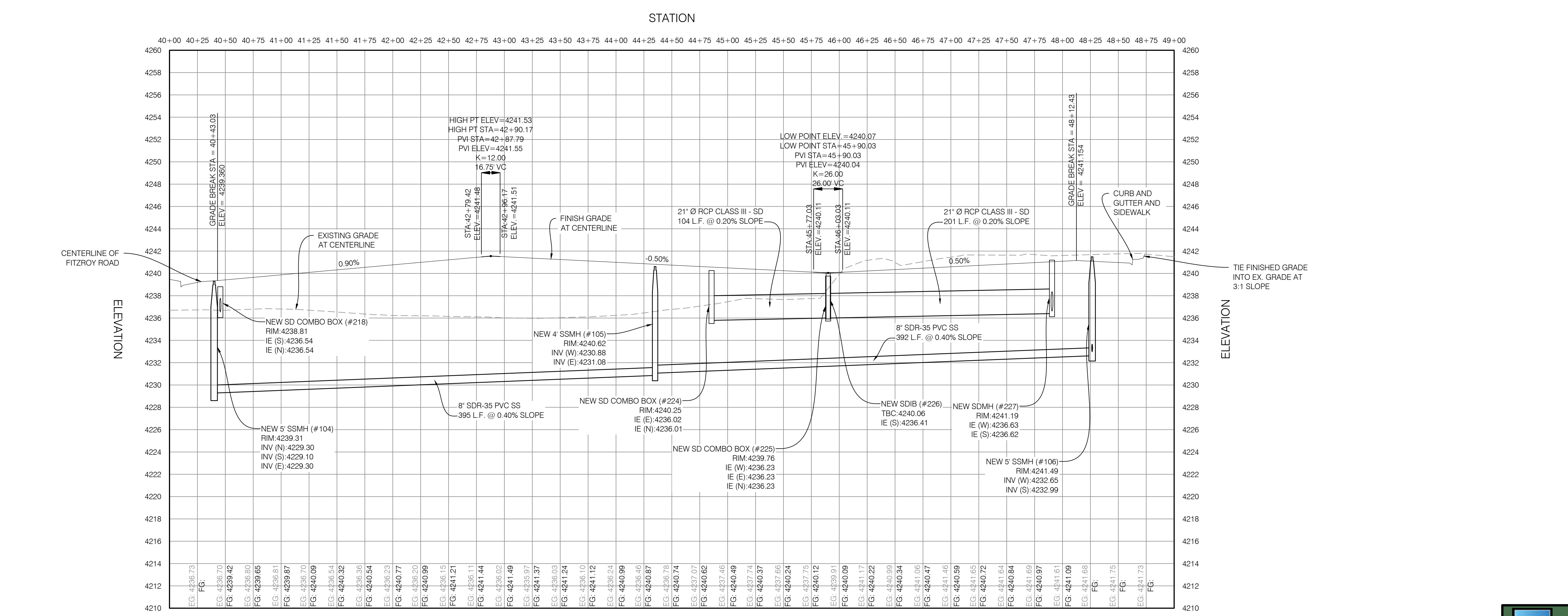
**ROADWAY
PLAN &
PROFILE**

CPP.03
11 OF 20





CHALGROVE DRIVE PLAN

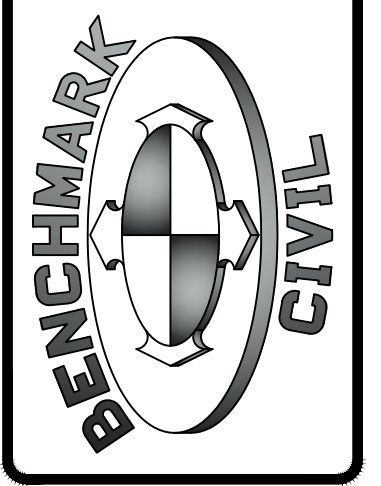


CHALGROVE RD PROFILE

DESCRIPTION	
NO.	DATE

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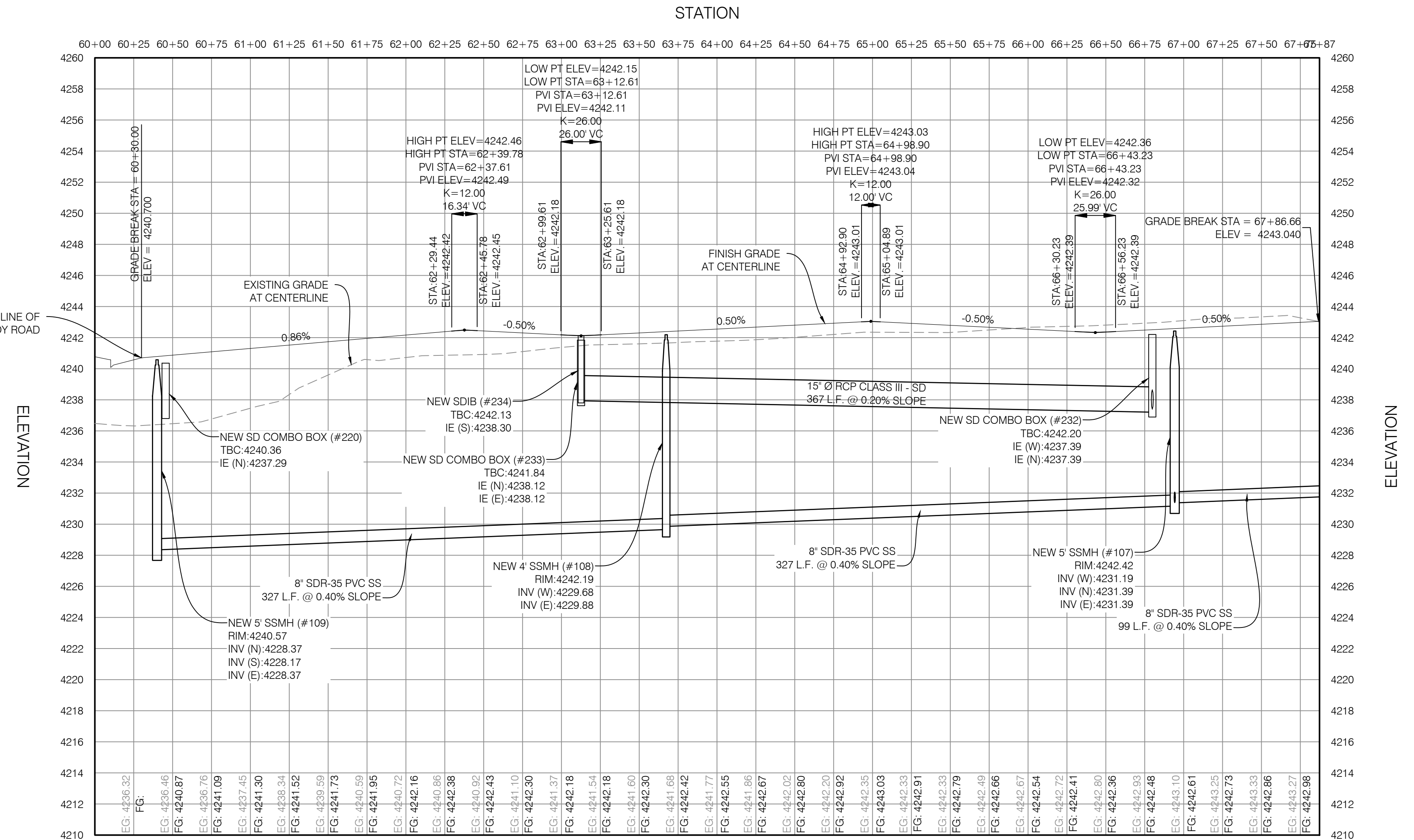
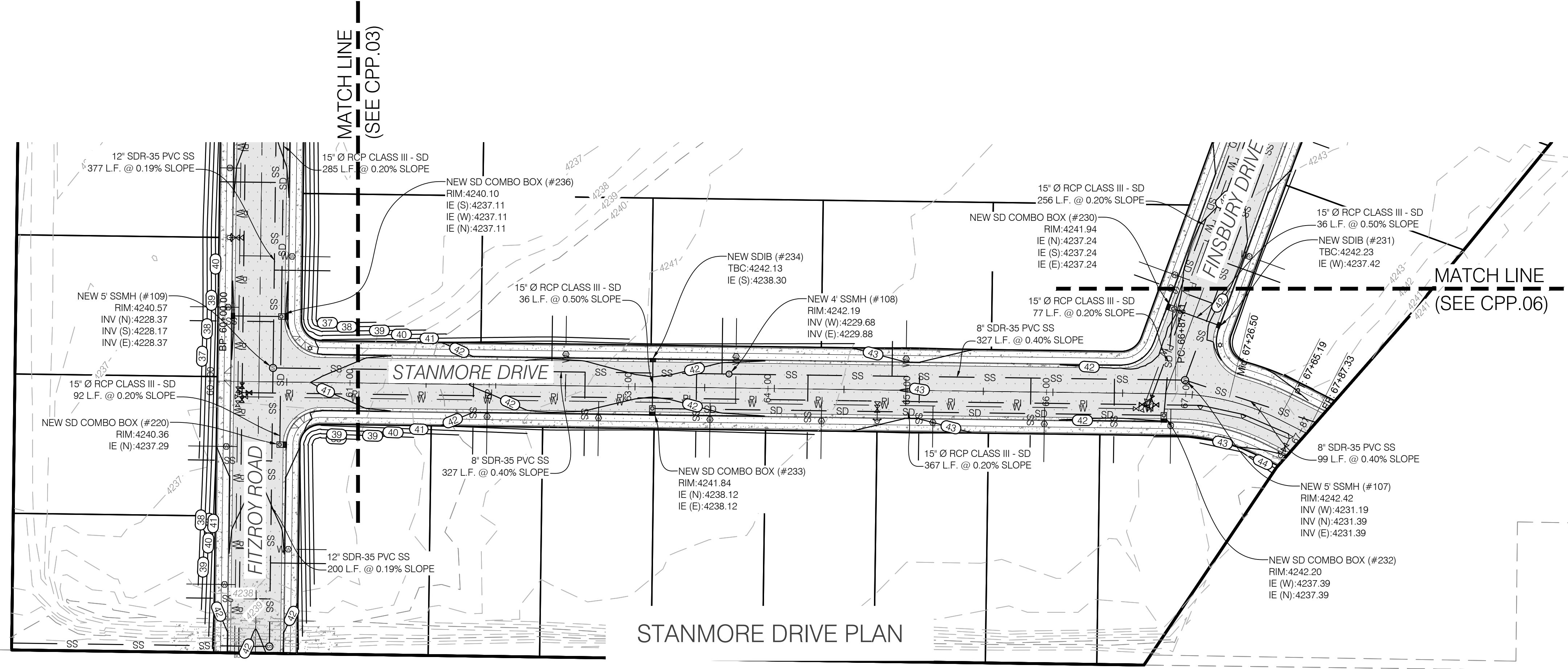
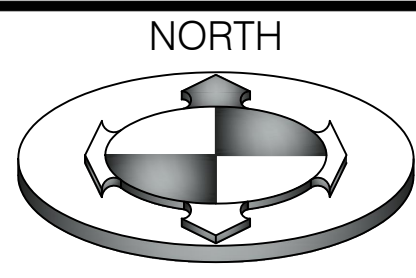
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**ROADWAY
PLAN &
PROFILE**

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12OF 20



SCALE MEASURES: INCH ON FULL SIZE SHEETS
ADJUST ACCORDANCE FOR REDUCED SIZE SHEETS

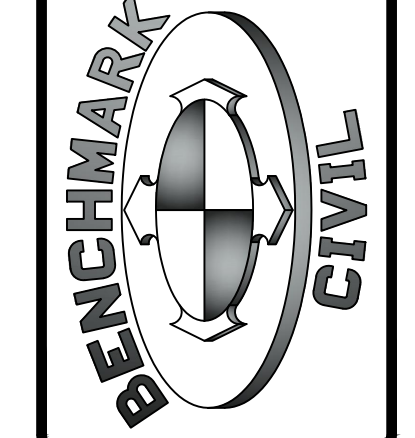


STANMORE DR PROFILE

NO.	DATE	DESCRIPTION

PRELIMINARY
PLAN
NOT FOR
CONSTRUCTION

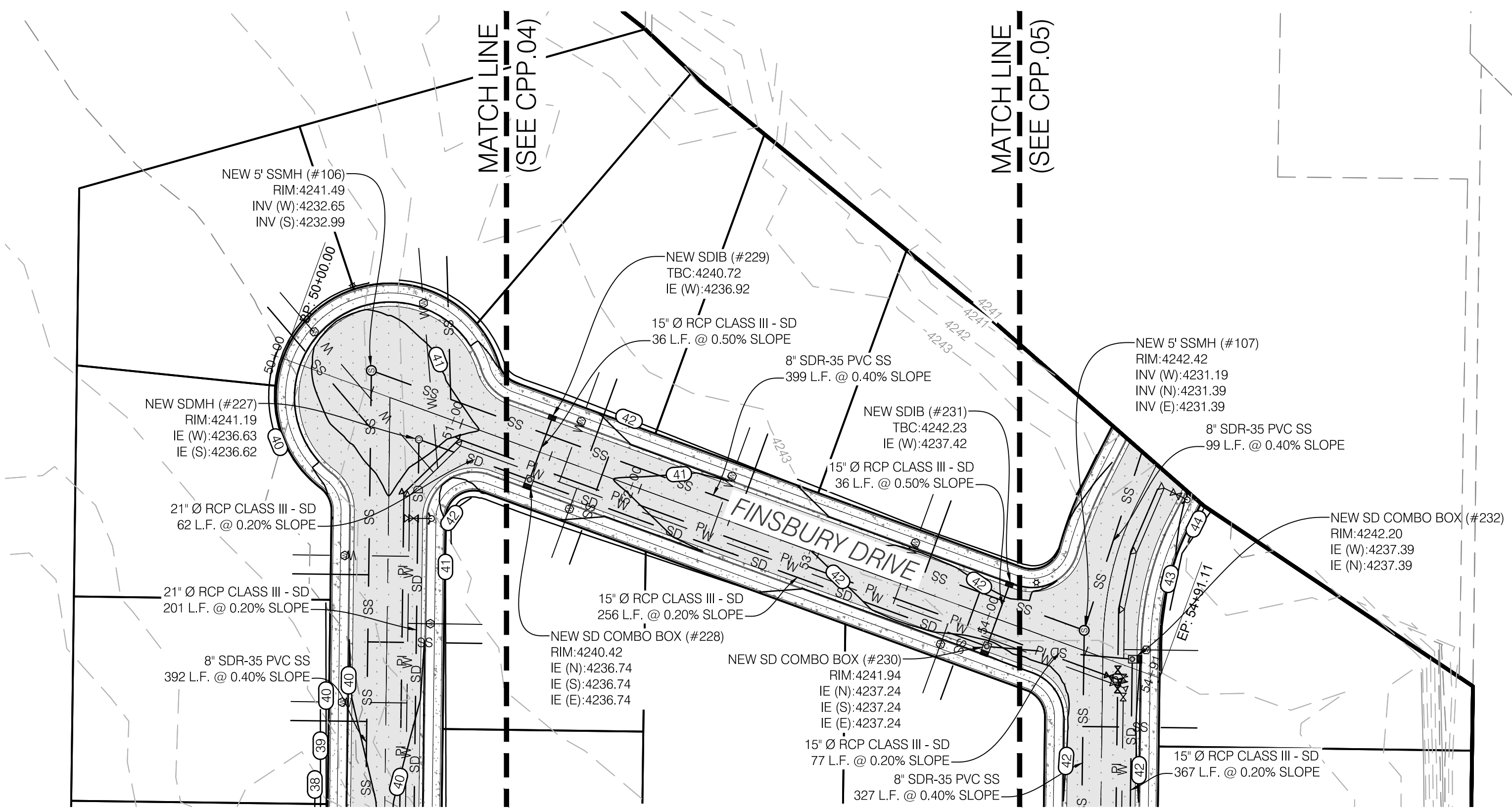
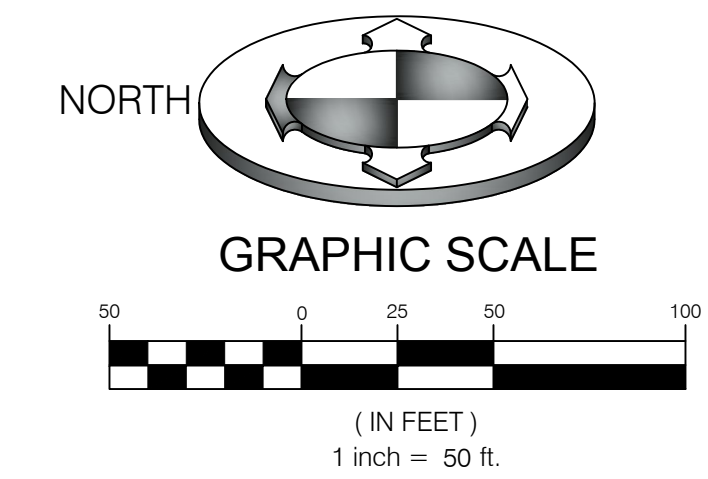
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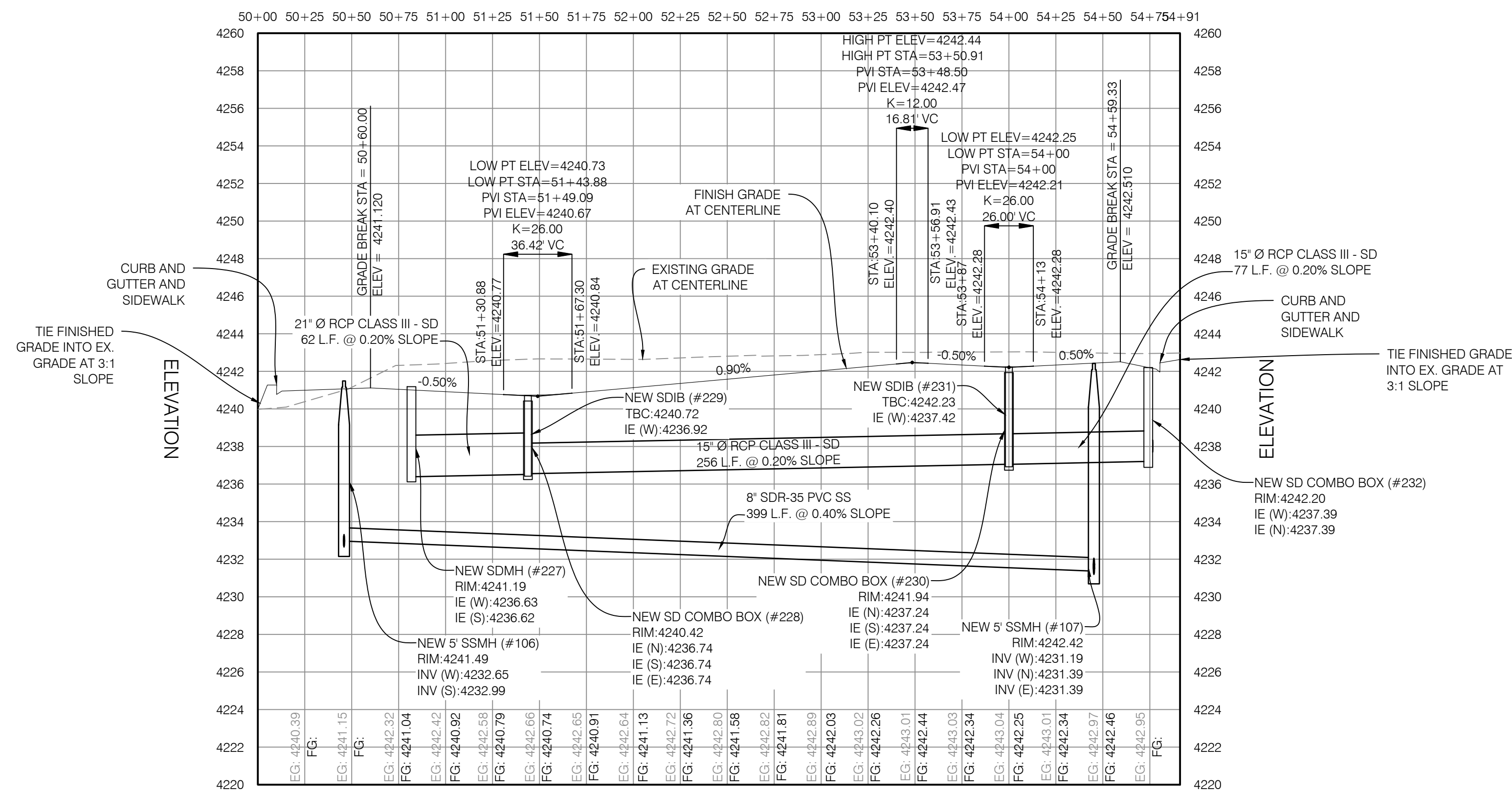
PROJECT NO: 2006142
ROADWAY
PLAN &
PROFILE
CPP.05
13OF 20





FINSBURY DRIVE PLAN

STATION



FINSBURY DR PROFILE

NO.	DATE	DESCRIPTION

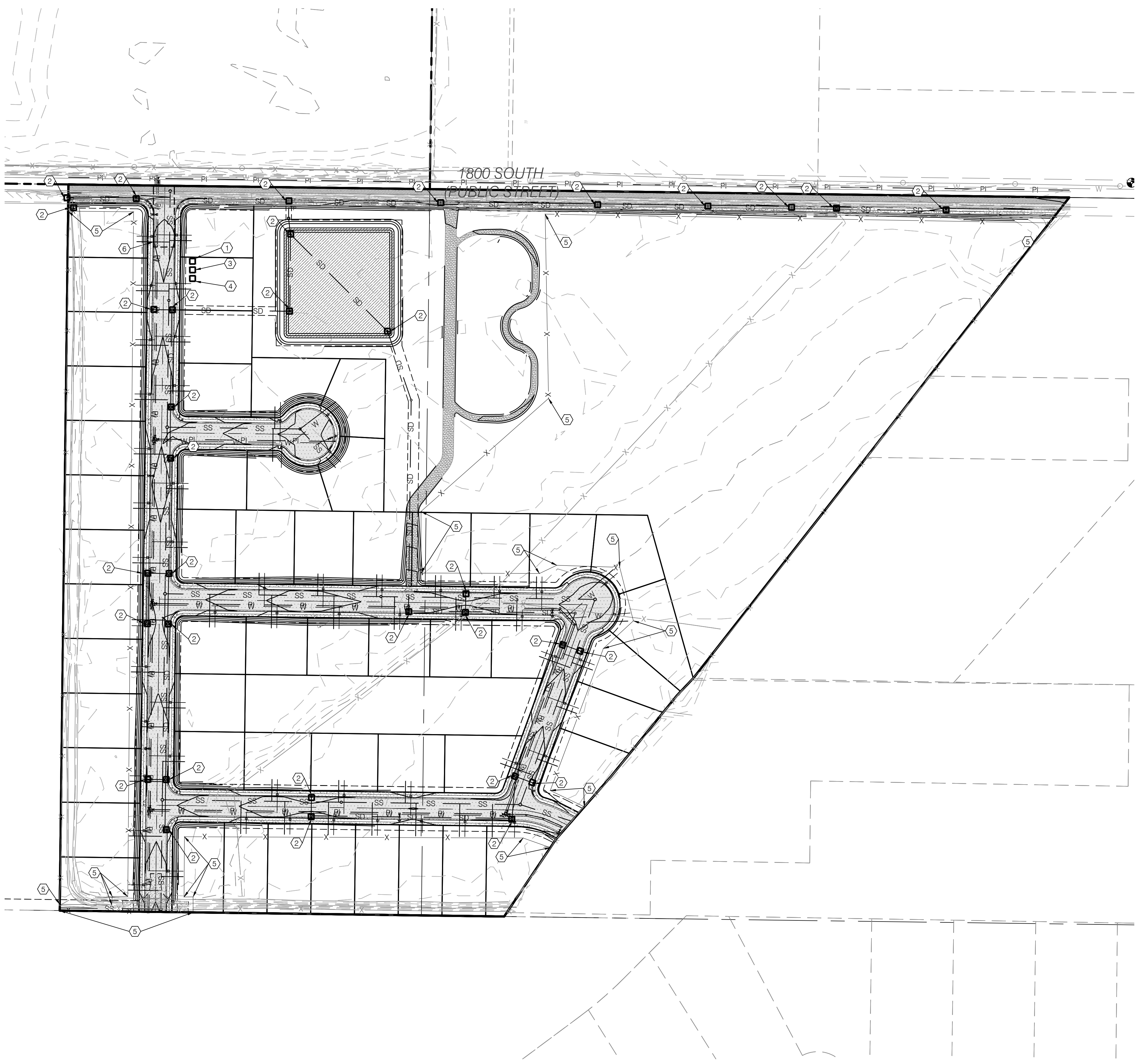
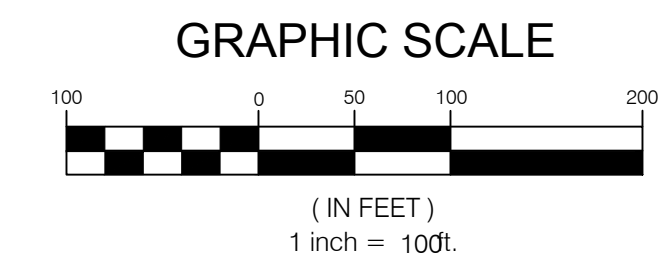
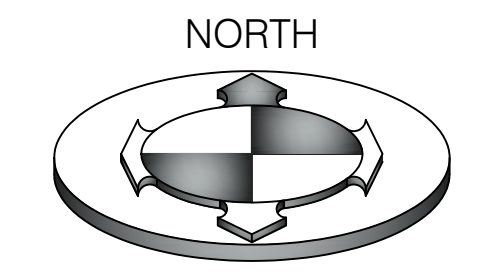
PRELIMINARY
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PROJECT NO. 2006142
ROADWAY PLAN & PROFILE
 CPP.06
 14OF 20





SWPPP KEY NOTES REFERENCE		
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.

NO.	DATE	DESCRIPTION
1	09/03/2020	PRELIMINARY SURVEY
2		
3		
4		
5		
6		
7		

**PRELIMINARY
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PROJECT NO. 2006142
EROSION CONTROL PLAN
CEP.01
15OF 20



SCALE MEASURES IN ACCORDANCE WITH UTAH 811
AGENCY REQUIREMENTS FOR REDUCED SIZE SHEETS

BMP: Concrete Waste Management

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

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, tightly capped) and that no materials are being stored away from the designated location.

BMP: Portable Toilets

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:

- 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.

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.

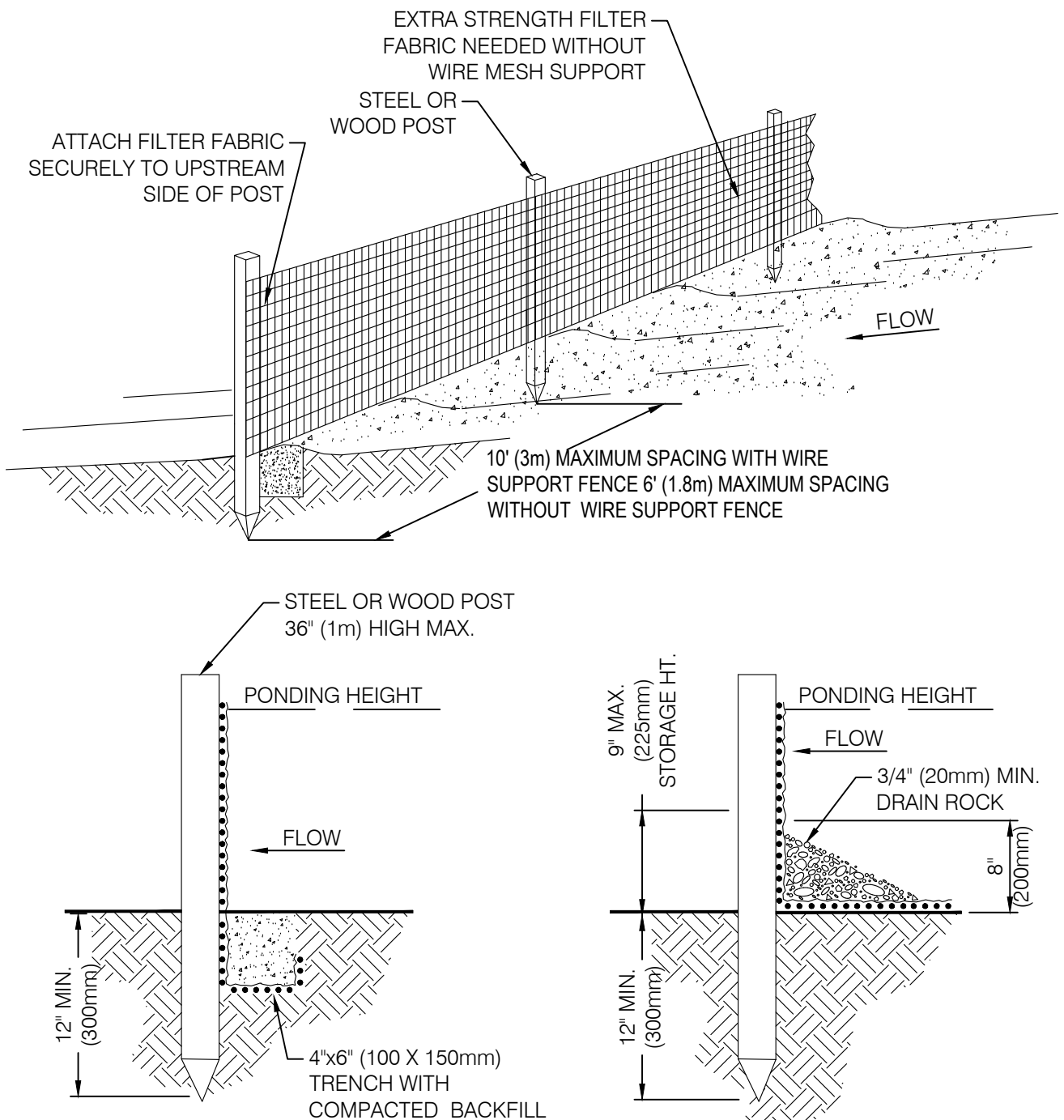
CONCRETE WASTE MANAGEMENT ①
SCALE: NTS

INLET PROTECTION WATTLE ②
SCALE: NTS

MATERIALS STORAGE ③
SCALE: NTS

PORTABLE TOILETS ④
SCALE: NTS

SPILL CLEAN UP ⑤
SCALE: NTS

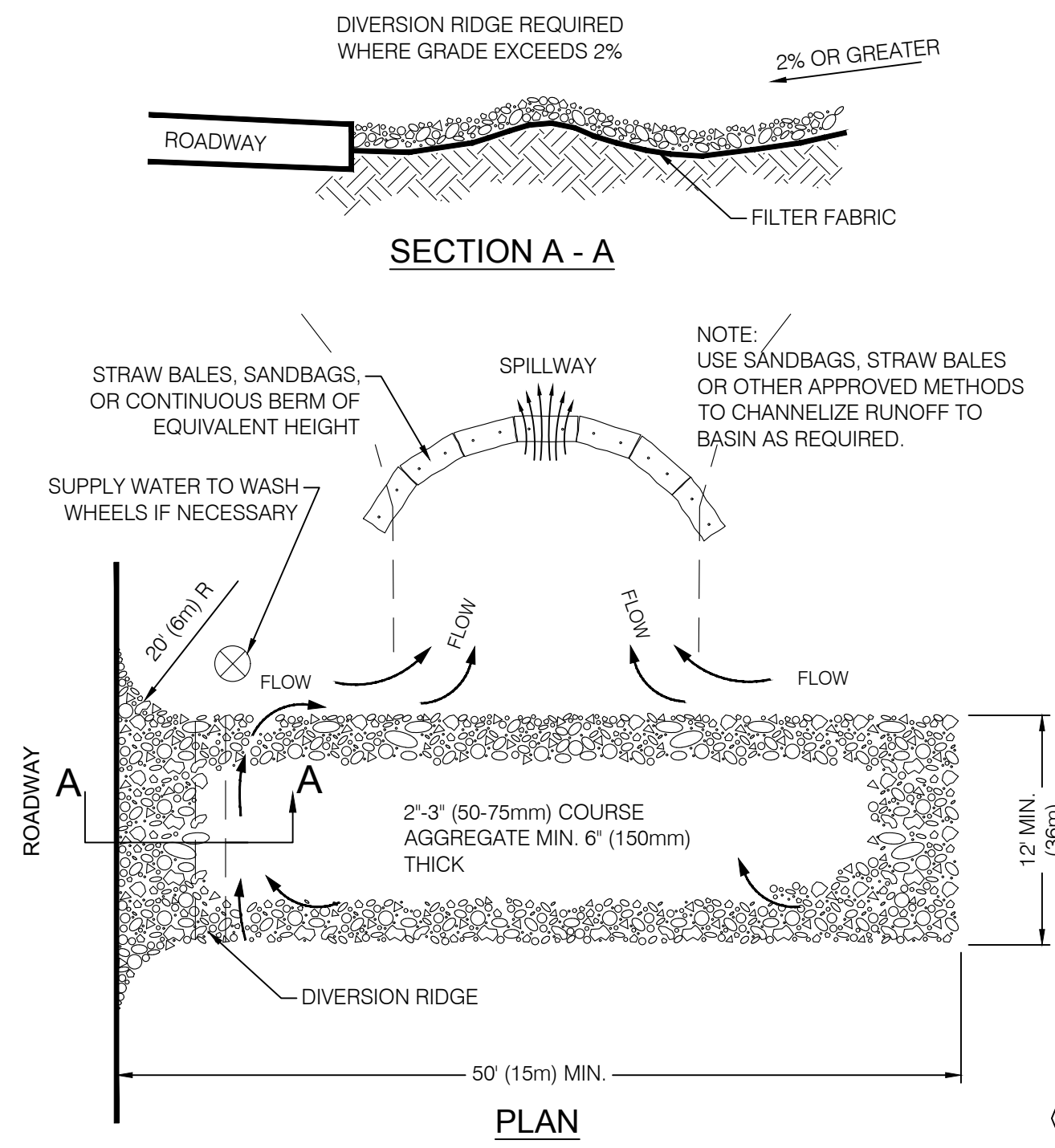


NOTES:

- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
- INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
- 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

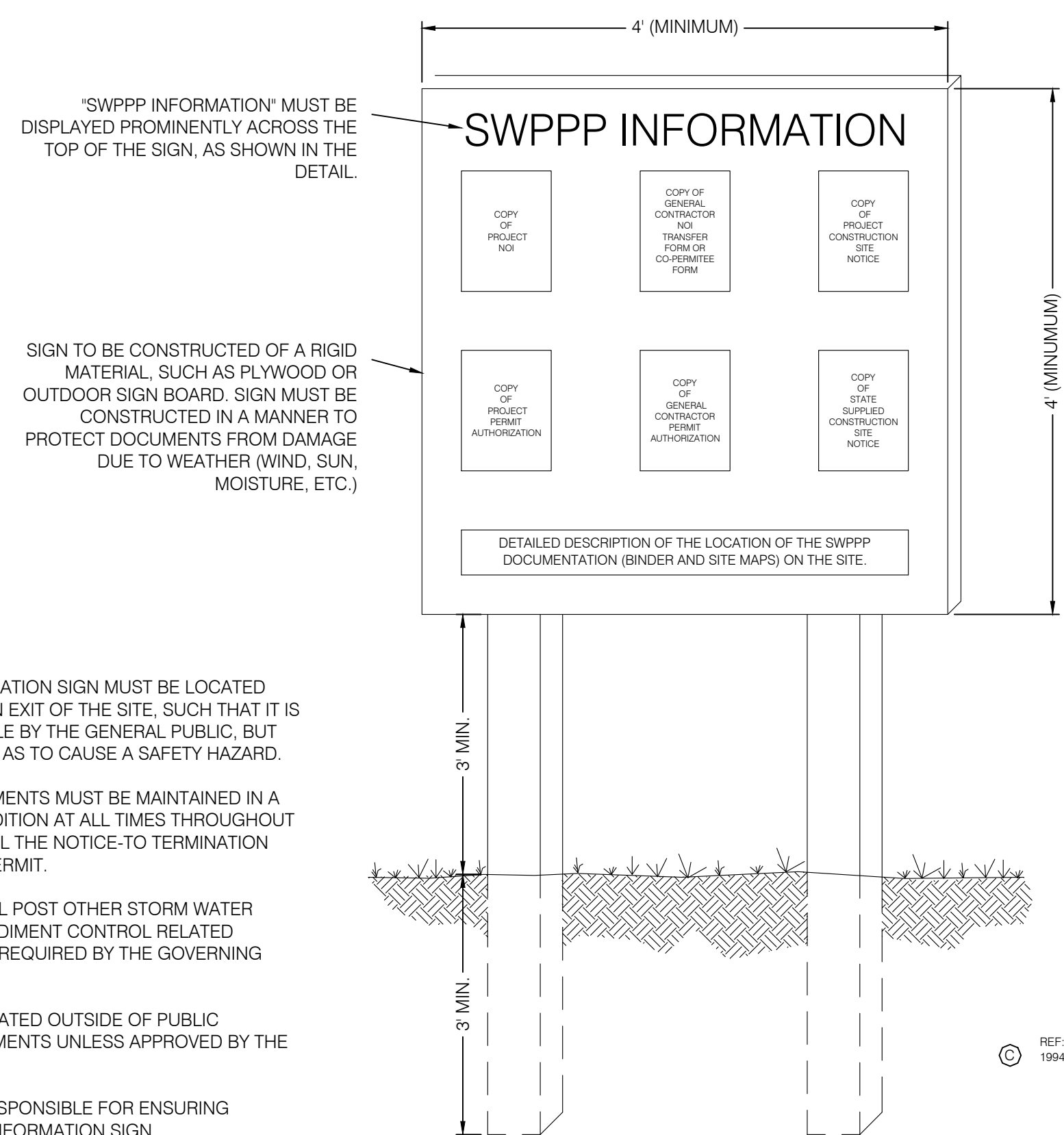
SILT FENCE ⑥
SCALE: NTS



NOTES:

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

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT ⑦
SCALE: NTS



NOTES:

- 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.
- ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE OF TERMINATION (NOT) IS FILED FOR THE PERMIT.
- CONTRACTOR SHALL POST OTHER STORM WATER AND/OR EROSION AND SEDIMENT CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE GOVERNING AGENCY.
- SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY THE GOVERNING AGENCY.
- CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY IF THE SWPPP INFORMATION SIGN.

SWPPP INFORMATION SIGN ⑧
SCALE: NTS

PROJECT NO.	2006142
CHECKED BY	JHO
DATE	09/03/2020
SCALE	AS SHOWN
SCALE MEASURES	HIGH ON FULL SIZE SHEETS ADJUST ACCORDINGLY FOR REDUCED SIZE SHEETS

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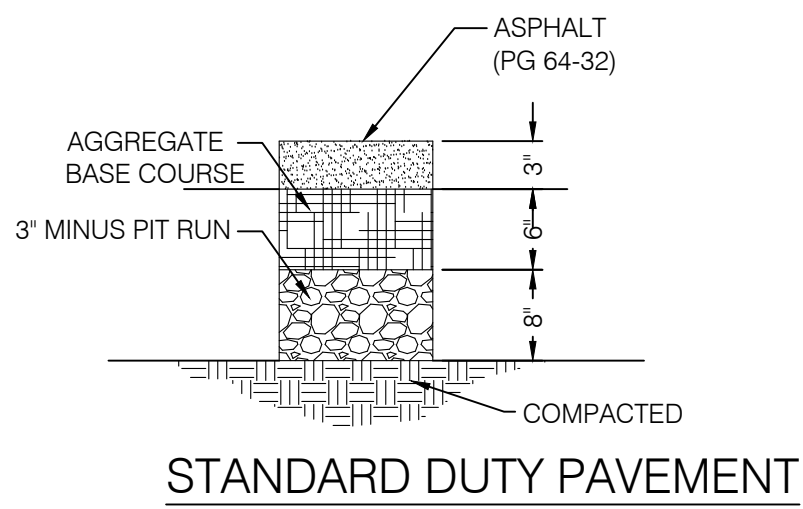
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3701 W 1800 S
WEBER COUNTY, UTAH

EROSION CONTROL DETAILS

CEP.02
16 OF 20



ALTERNATE: STANDARD
 CONCRETE 5"
 GRAVEL BASE 4"
 GRAVEL BASE 8"

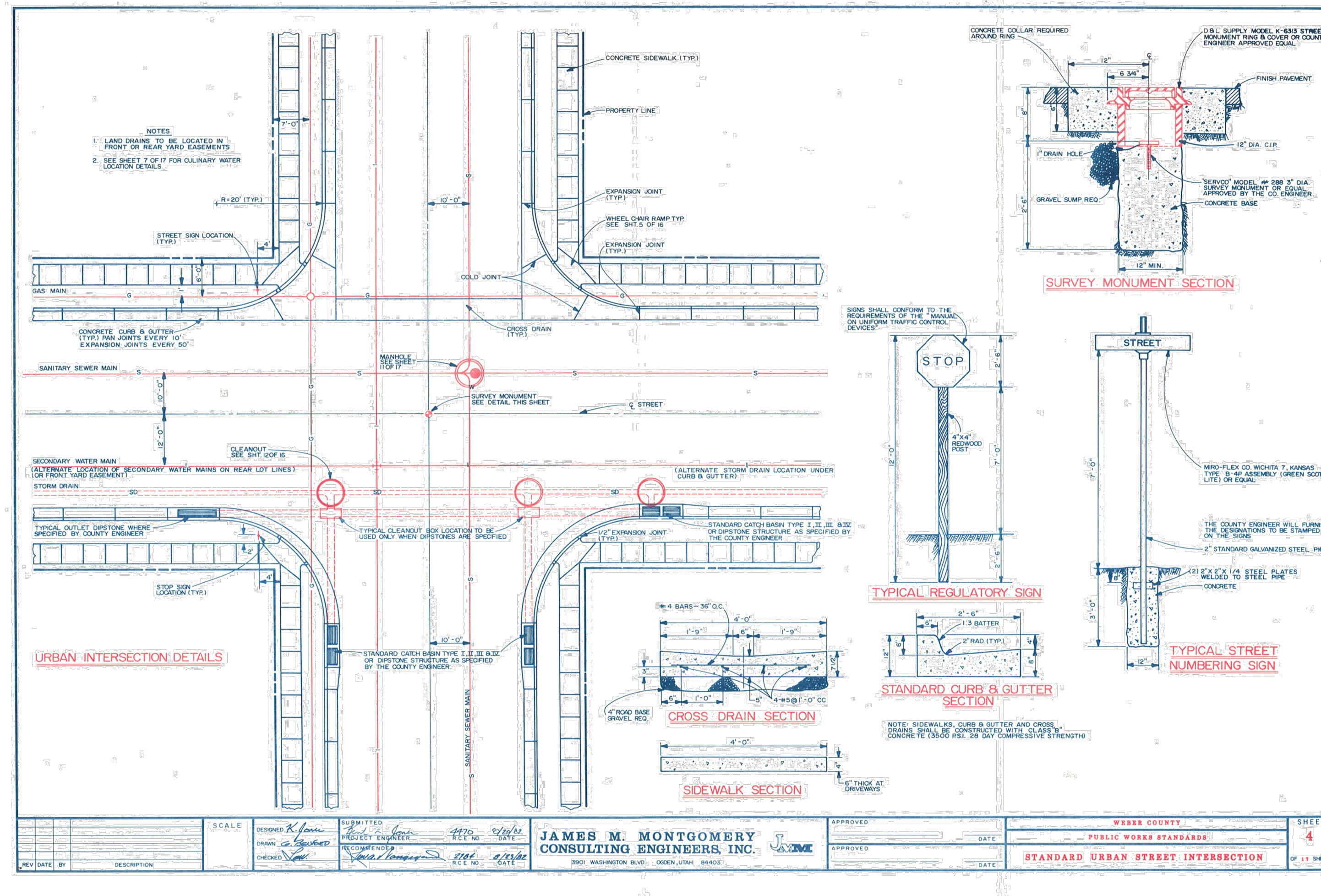


NOTE:
 1. FOR REINFORCEMENT DESIGN OF PCC PAVEMENT SECTIONS SEE STRUCTURAL ENGINEER
 2. FOR DOWEL DESIGN OF PCC PAVEMENT SECTIONS SEE GEOTECHNICAL ENGINEER
 3. REFER TO GEOTECHNICAL REPORT #1160708 PREPARED BY AGEC ON OCTOBER 12, 2016 FOR PAVEMENT DESIGN. DEFER TO GEOTECHNICAL REPORT OR COUNTY STANDARDS, WHICHEVER IS MORE CONSERVATIVE.
 4. COMPACTION TESTING REQUIRED FOR BOTH ROAD BASE AND SUB BASE PER WEBER COUNTY STANDARDS.

PAVEMENT SECTIONS

SCALE: N.T.S.

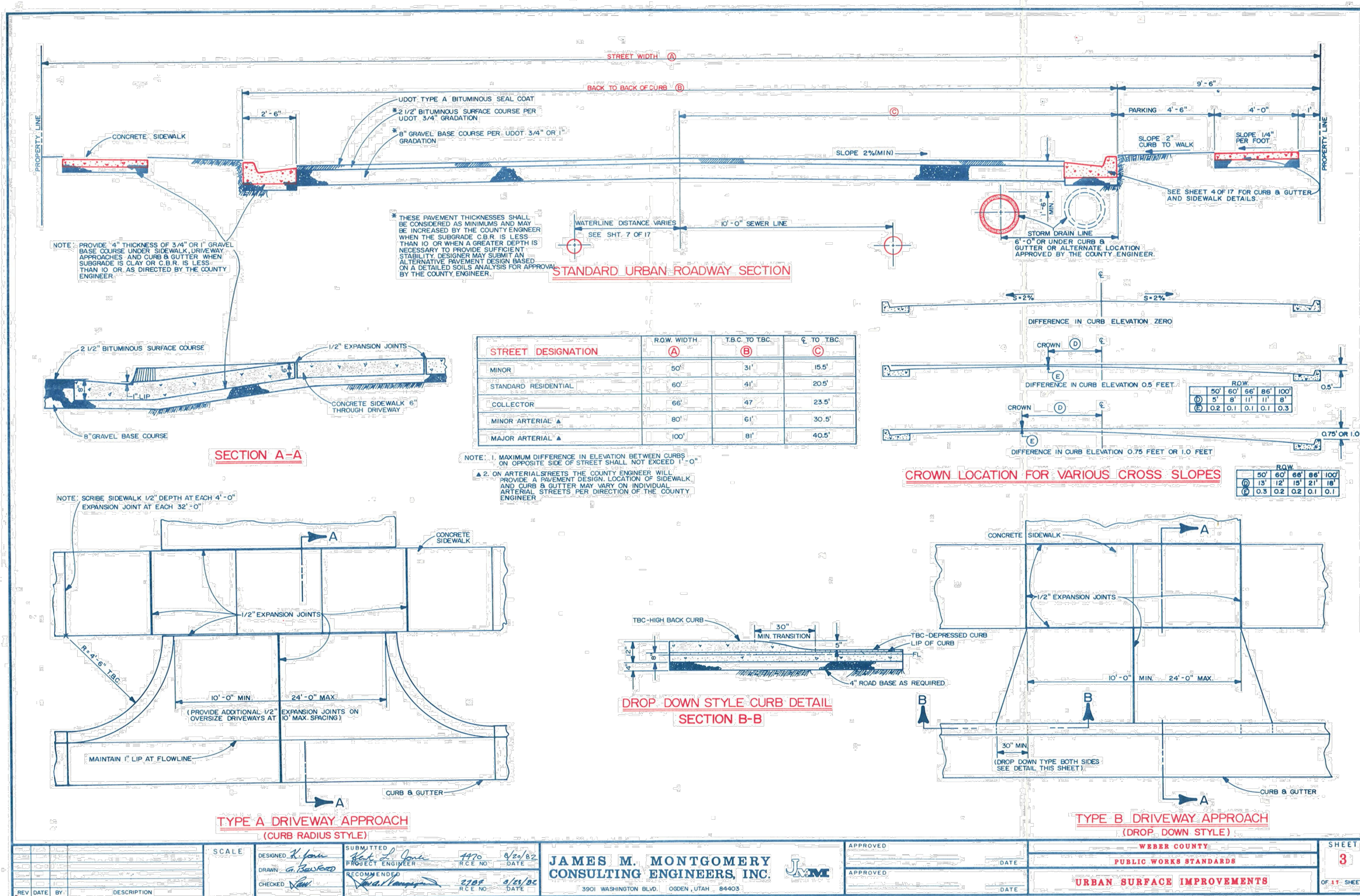
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WEBER COUNTY INTERSECTION DETAILS

SCALE: N.T.S.

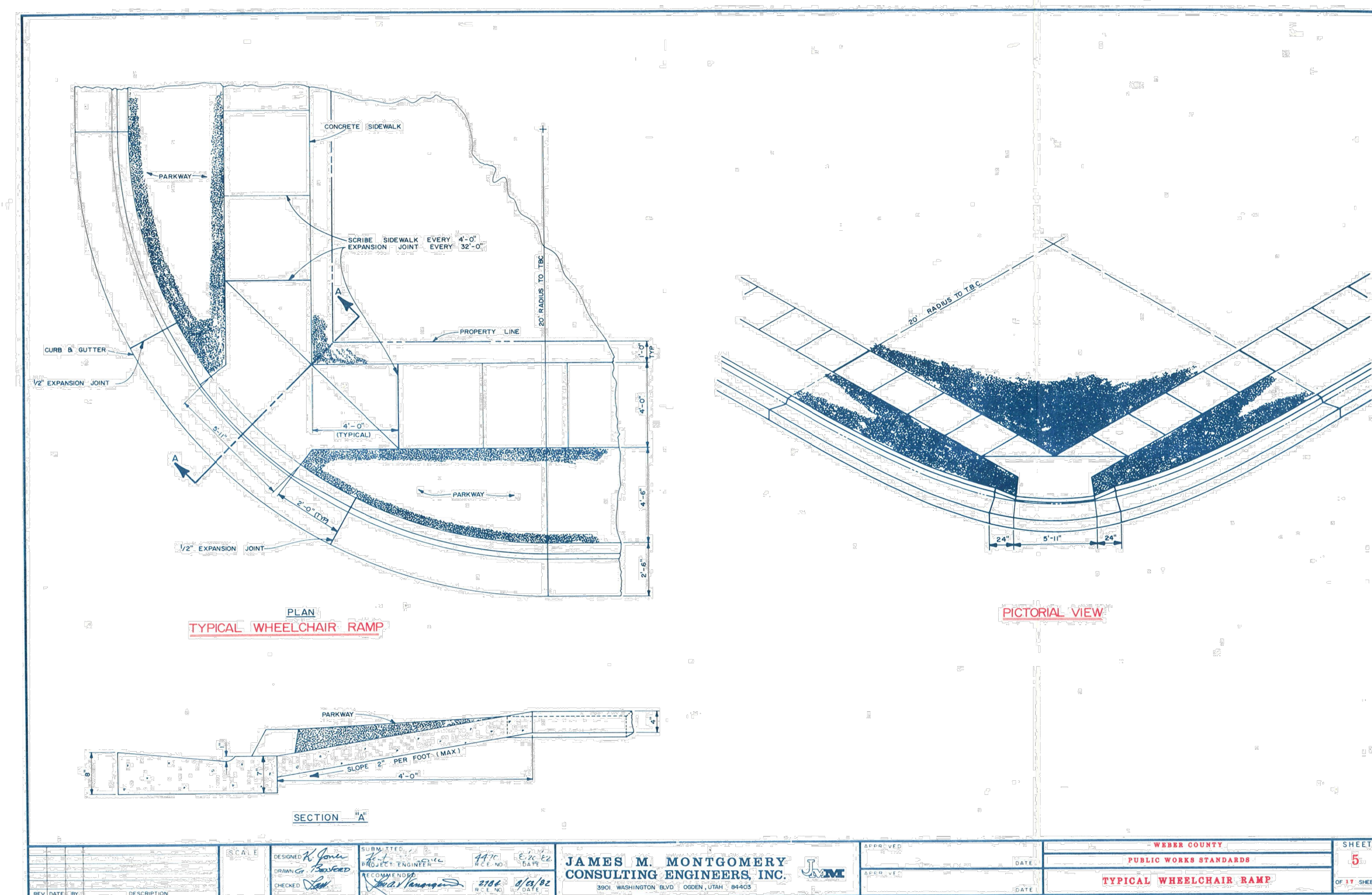
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WEBER COUNTY SURFACE IMPROVEMENTS DETAILS

SCALE: N.T.S.

3



WEBER COUNTY WHEELCHAIR RAMP DETAILS

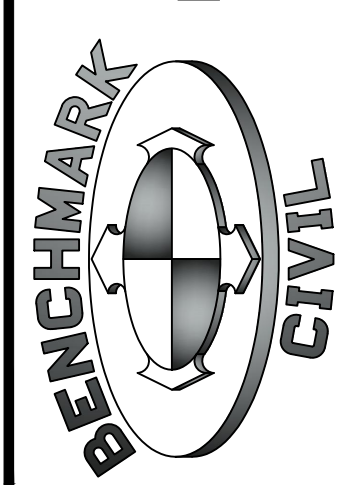
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4

NO.	DATE	DESCRIPTION

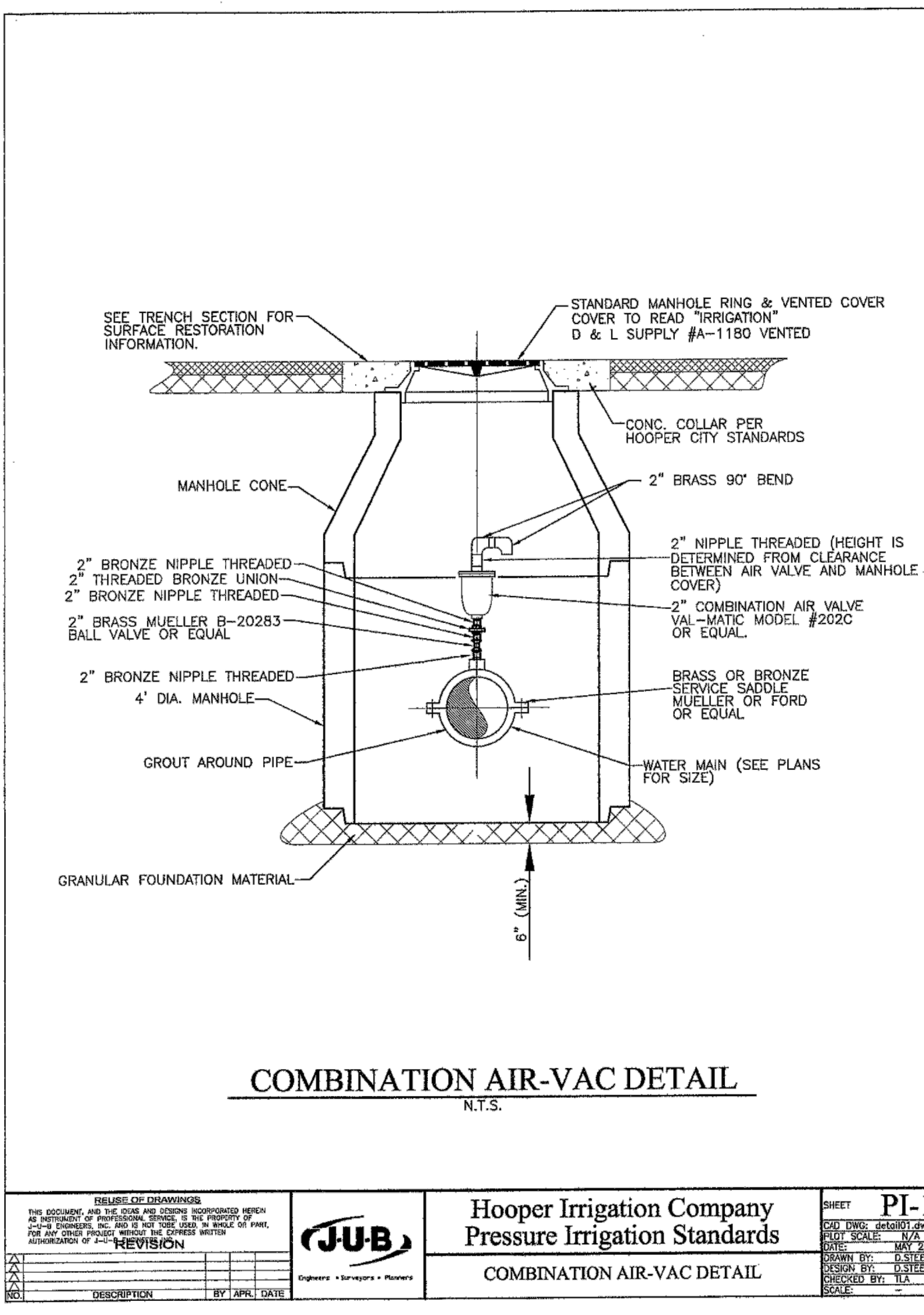
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PROJECT NO. 2006142
 DETAILS & NOTES SHEET

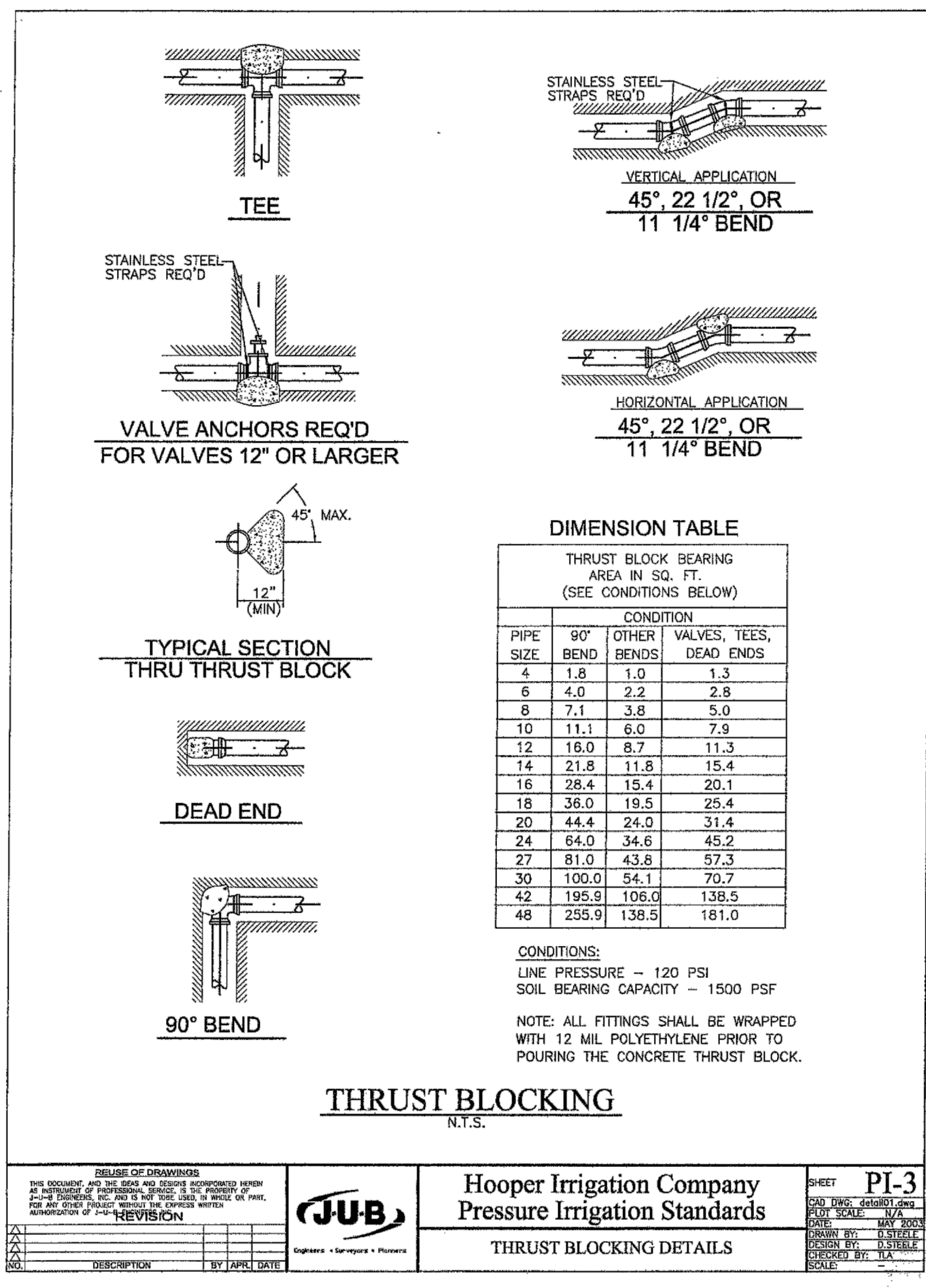


REVISION	BY	DATE	DESCRIPTION

JUB Hooper Irrigation Company Pressure Irrigation Standards

COMBINATION AIR-VAC DETAIL

SHEET **PI-1**

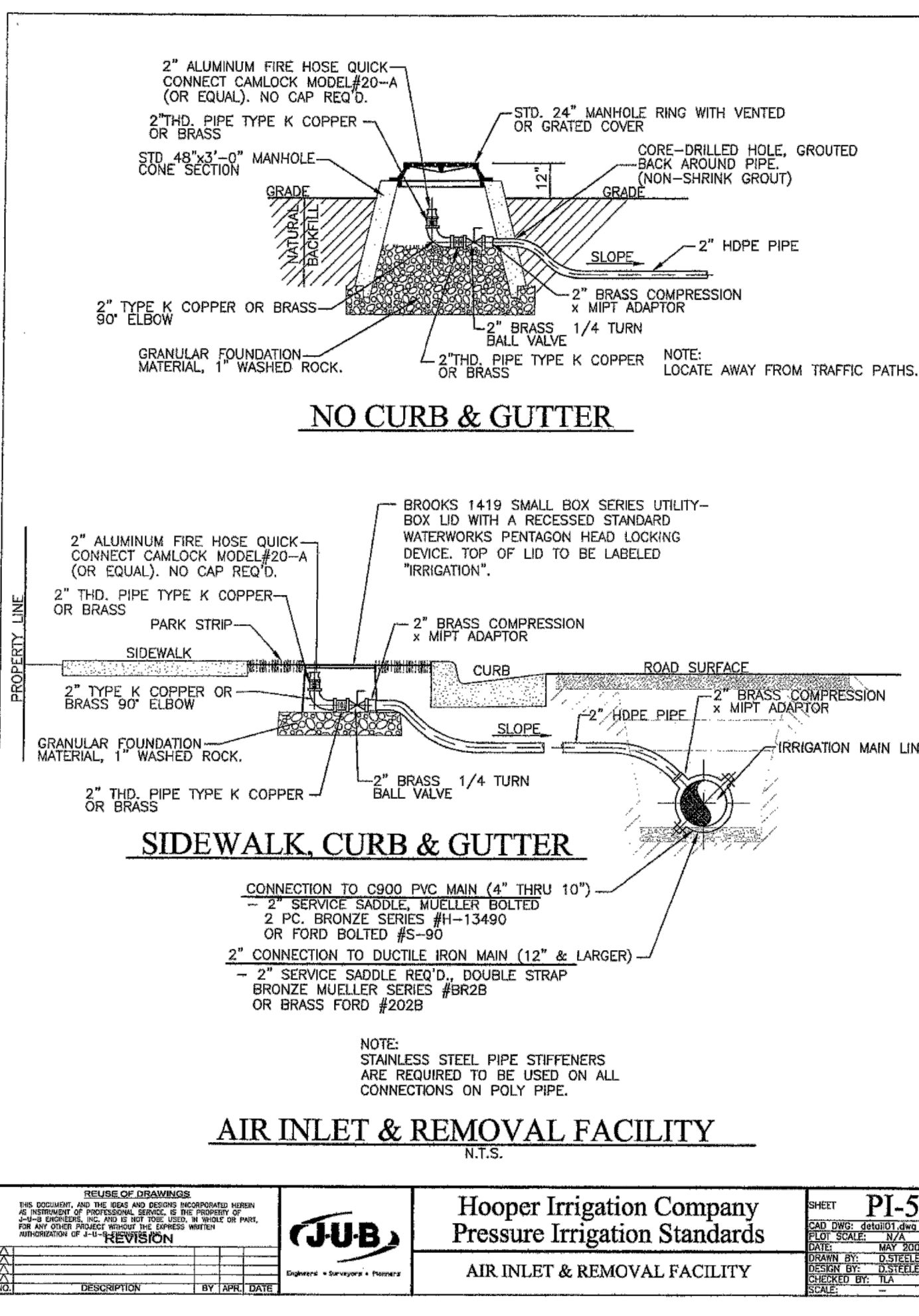


REVISION	BY	DATE	DESCRIPTION

JUB Hooper Irrigation Company Pressure Irrigation Standards

THRUST BLOCKING DETAILS

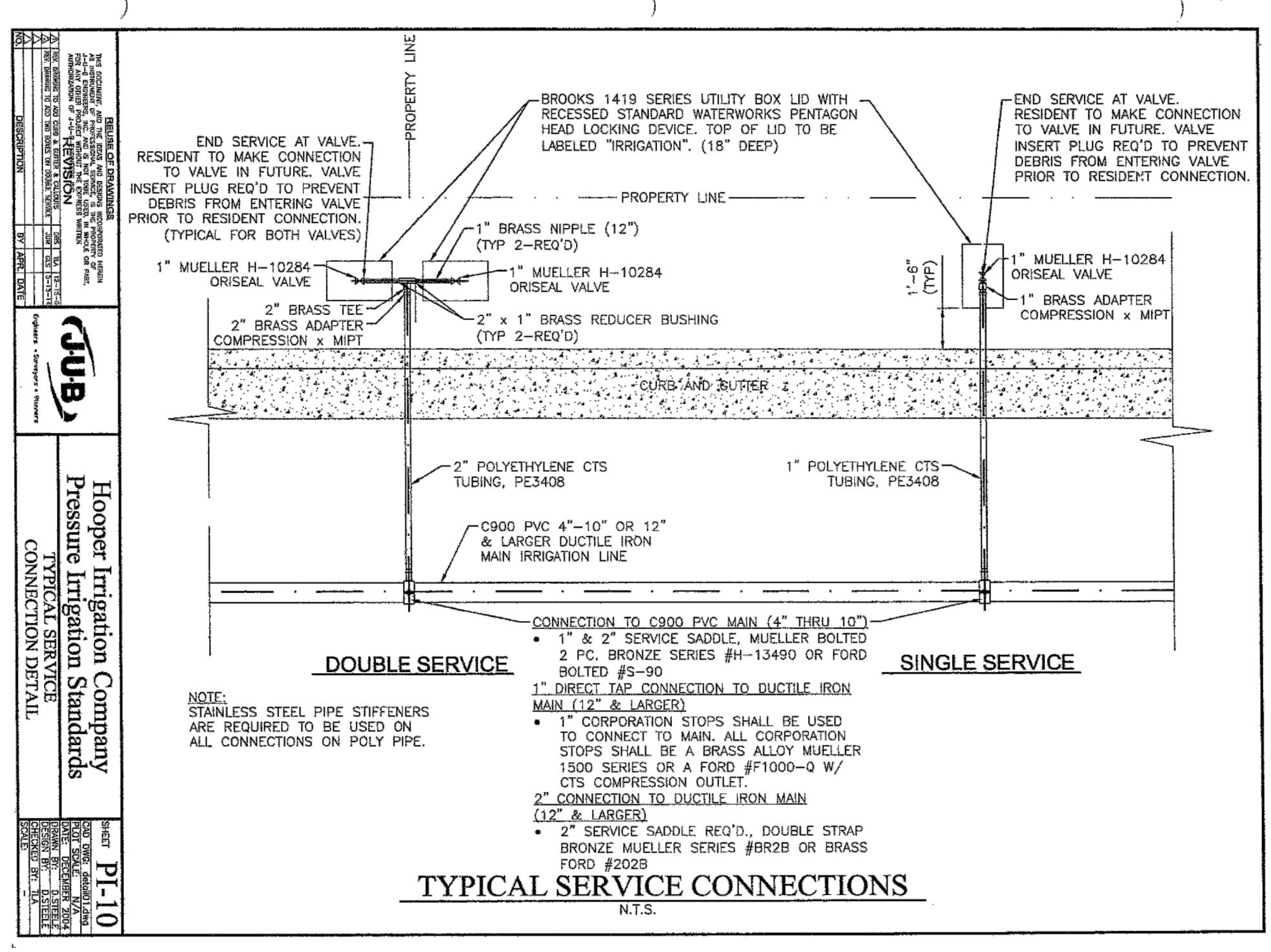
SHEET **PI-3**



JUB Hooper Irrigation Company Pressure Irrigation Standards

AIR INLET & REMOVAL FACILITY

SHEET **PI-5**



JUB Hooper Irrigation Company Pressure Irrigation Standards

TYPICAL SERVICE CONNECTION DETAIL

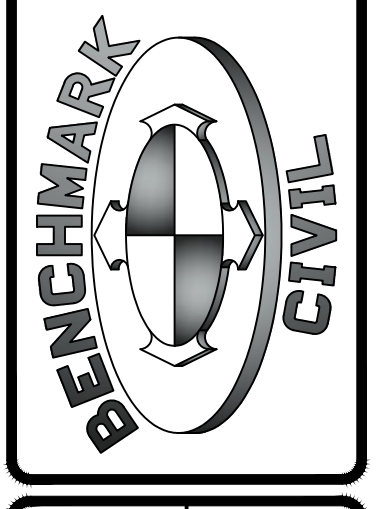
SHEET **PI-10**

HOOPER IRRIGATION STANDARD DETAILS ①
SCALE: 1"

PROJECT NO.	2006142
DATE	09/03/2020
SCALE	AS SHOWN

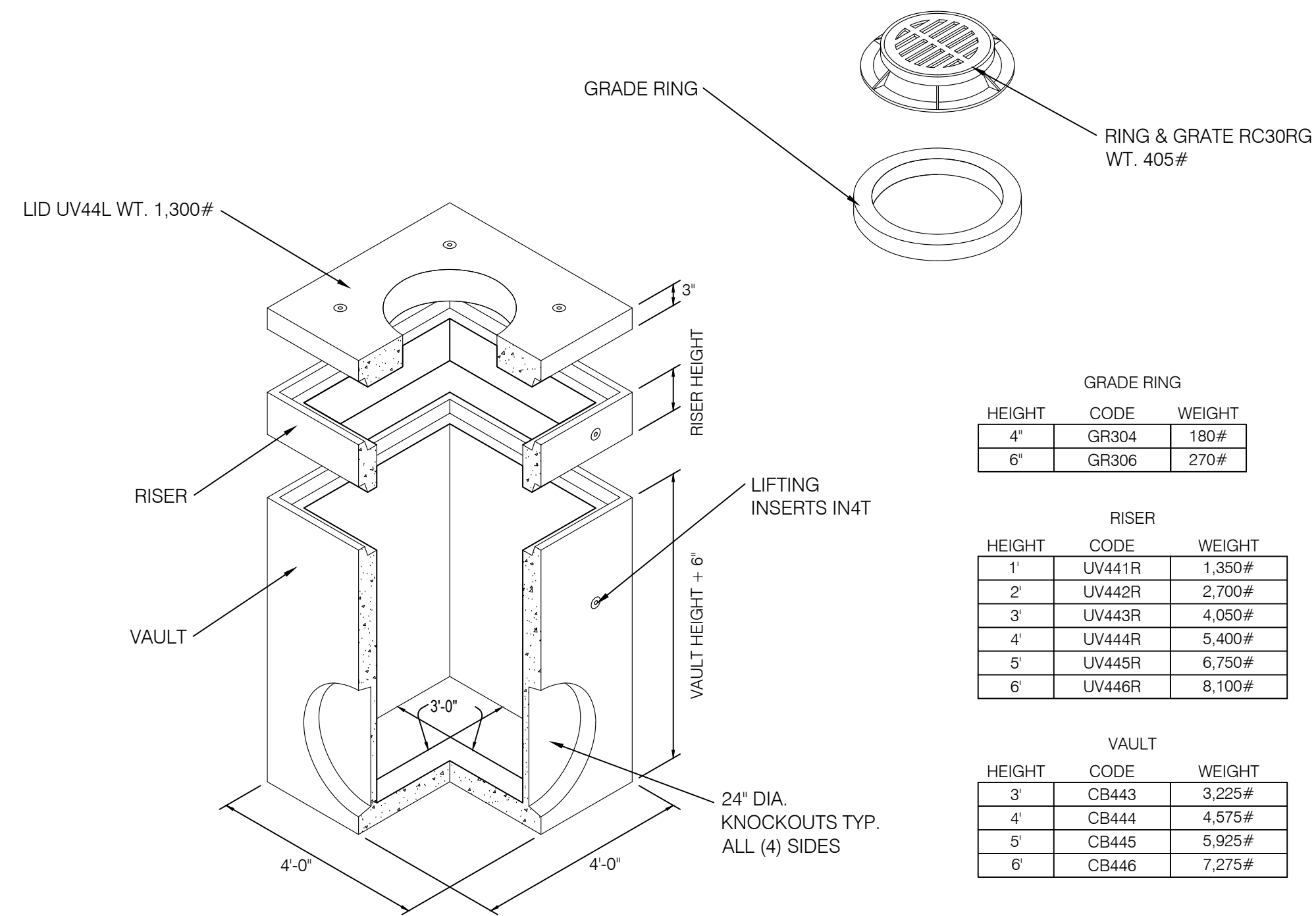
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WEBER COUNTY, UTAH

DETAILS & NOTES SHEET
CDT.02
18 OF 20



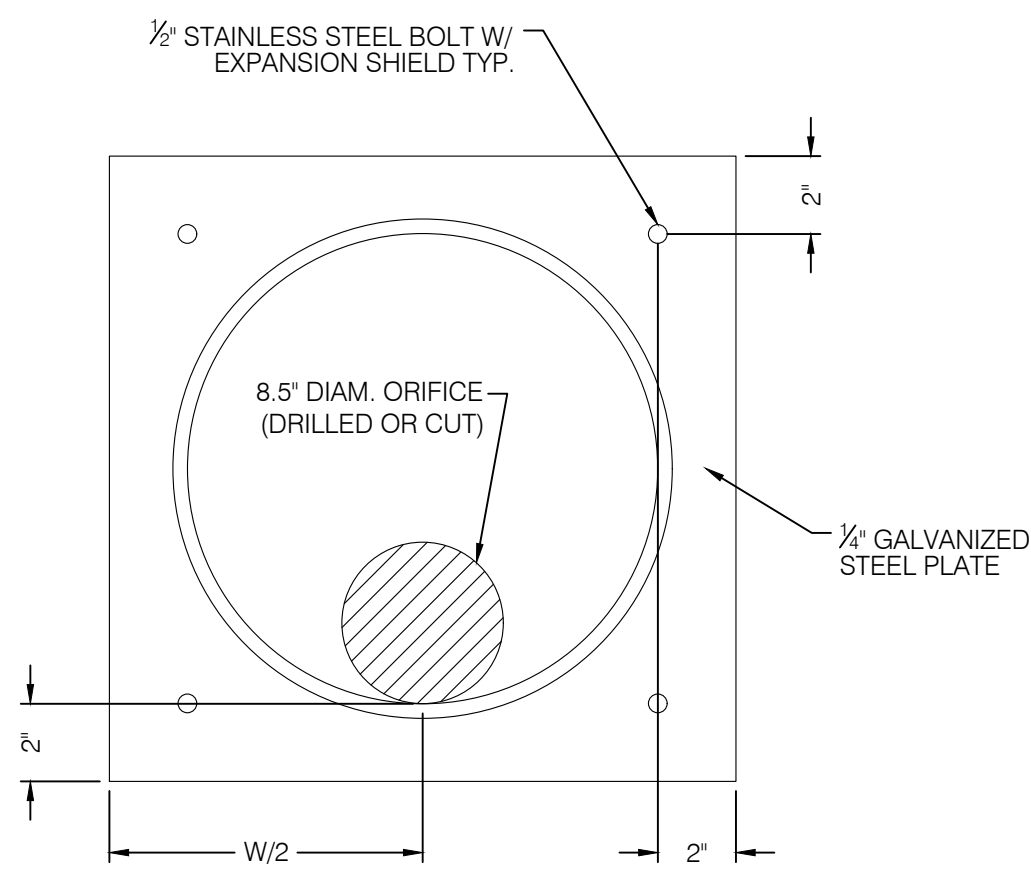
GRADE RING		
HEIGHT	CODE	WEIGHT
4"	GR304	180#
6"	GR306	270#

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#

3'x3' CATCH BASIN
SCALE: NTS

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



FLOW RESTRICTOR PLATE

8.5" ORIFICE RESTRICTOR

SCALE: N.T.S.

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

Series 37

- Installs between pipe flanges, eliminating valve body.
- Offers minimal face-to-face dimension—only the thickness of the flange.
- Features unique, maintenance-free, one-piece elastomer check sleeve design.
- Eliminates chatter—silent, non-slaming.
- Closes on entrapped solids.

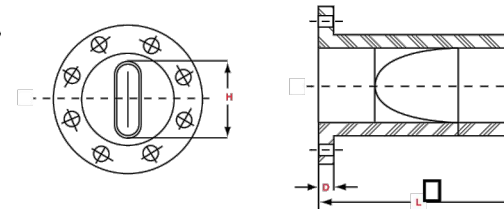


Materials of Construction

- Valves are available in pure gum rubber, neoprene, Hypalon®, Buna-N, Viton® and EPDM.
- ANSI Class 125 Flanges, DIN PN6, PN10, PN16.
- Special coating available.

Tideflex® Technologies' Series 37 Flanged In-Line Check Valve is a simple, reliable, cost-effective solution to backflow problems. Designed to be installed between twomating flanges, the Series 37 eliminates the need for a valve body.

The pressure drop of the Series 37 is increased because of the smaller I.D. required to fit the check valve in the line.



With only one moving part, the maintenance-free rubber check sleeve, the Series 37 In-Line Check Valve is simple in design. Sliding, rotating, swinging and spring parts are eliminated. There are no seats to corrode or packing to maintain. In addition, the Series 37 is a passive design, requiring no external source of air or electricity to operate. The result is reduced operating costs.

The Series 37 In-Line Check Valve can be ordered in a variety of elastomers. Flanges conform to ANSI B16.1 Class 125 specifications. Special custom designs or metric flanged models are also available. When ordering, specify line pressure, backpressure and whether an SST is required.

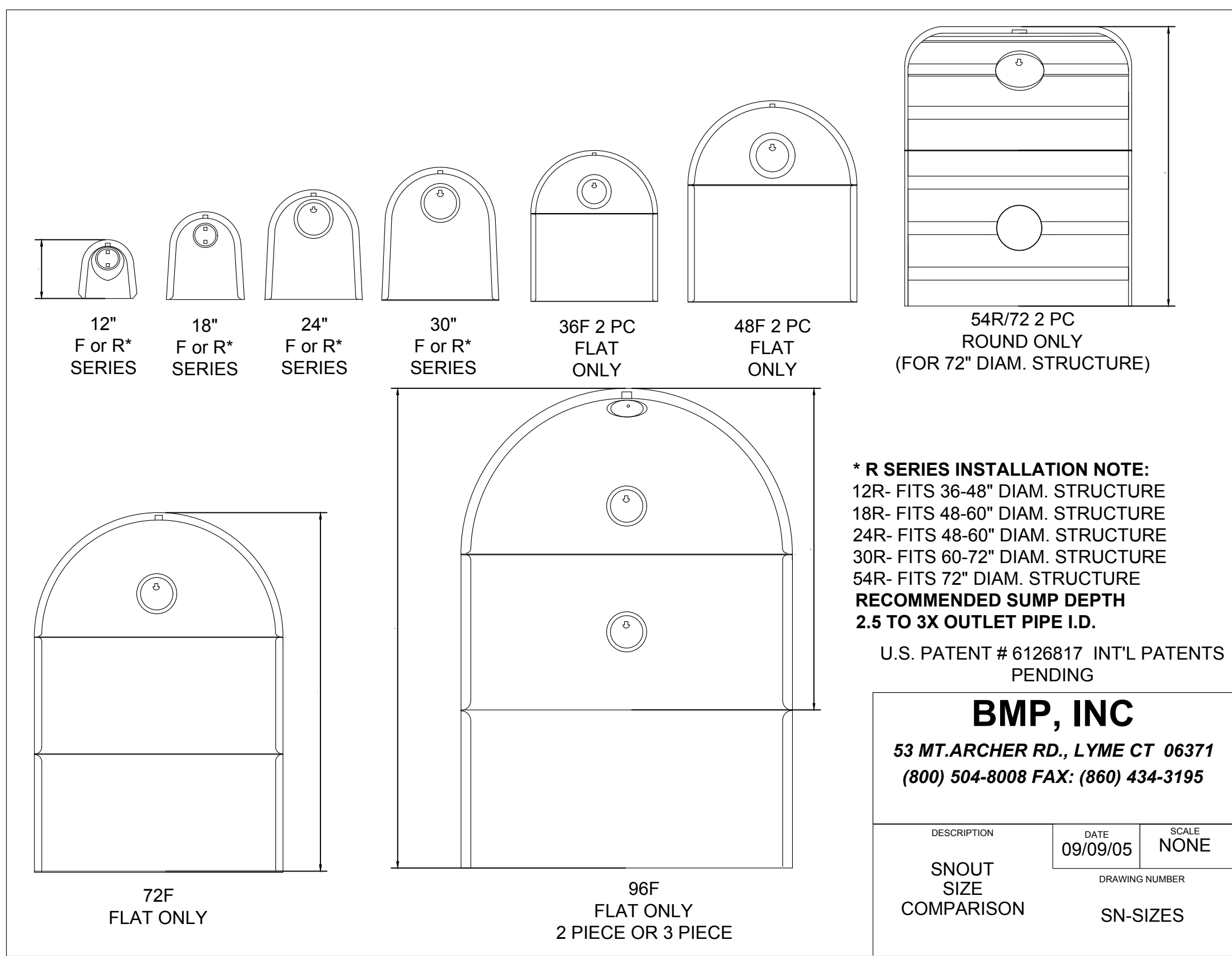
Dimensions Series 37 Flanged In-Line Check Valve

Nominal Size* (Pipe I.D.)	Length L	Height of Bolt H	Flange Thickness T	Max. Backpressure (psi)	Standard Tidelflex®	With Saddle Support
2	5	1 7/8	3/8	150	N/A	N/A
3	5 1/2	2 7/8	3/8	100	N/A	N/A
4	7	3 7/8	3/8	75	150	75
6	11	5 7/8	3/8	75	150	150
8	12 1/2	7 7/8	1/2	60	125	75
10	15 1/2	9 7/8	1/2	45	75	75
12	18 1/2	11 7/8	1/2	35	75	75
14	22	13 3/4	5/8	25	70	70
16	23	15 3/4	3/4	20	60	60
18	24	17 3/4	1	15	45	45
20	32	19 3/4	1	10	40	40
24	37	23 3/4	1	10	40	40
30	41	29 3/4	1 1/2	8	40	40
36	47	35 3/4	1 1/2	8	35	35
42	49	41 1/2	1 3/4	5	25	25
48	52	47 1/2	1 3/4	5	25	25
54	57	53 1/2	2	5	25	25
60	64	59 1/2	2	5	25	25
72	73	71 1/2	2	5	25	25

Numbers indicate maximum dimensions in inches.
* Larger sizes available upon request.

CHECK VALVE DETAIL

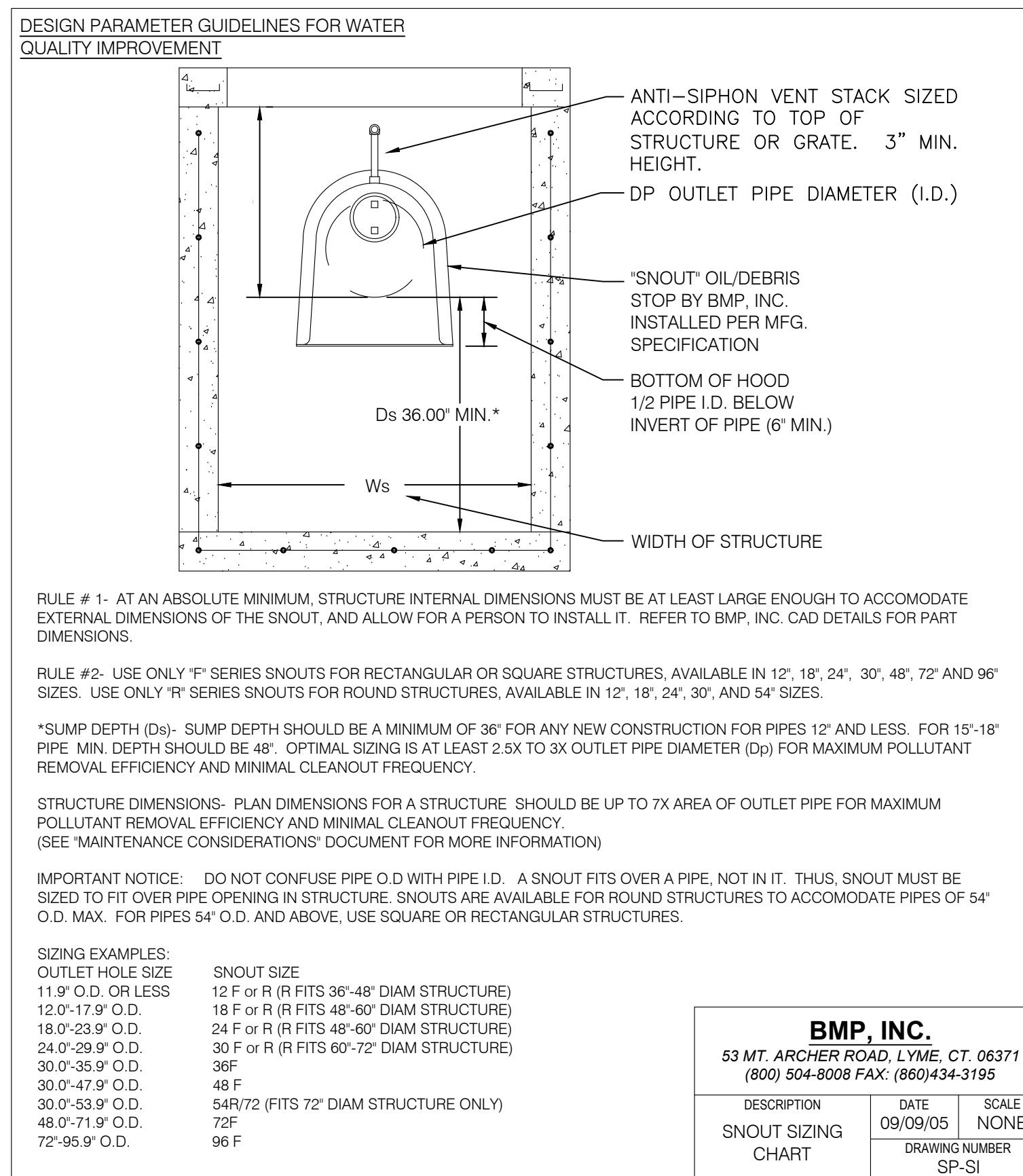
SCALE: N.T.S.



*** R SERIES INSTALLATION NOTE:**
12R- FITS 36-48" DIAM. STRUCTURE
18R- FITS 48-60" DIAM. STRUCTURE
24R- FITS 48-60" DIAM. STRUCTURE
30R- FITS 60-72" DIAM. STRUCTURE
54R- FITS 72" DIAM. STRUCTURE
RECOMMENDED SUMP DEPTH 2.5 TO 3X OUTLET PIPE I.D.
U.S. PATENT # 6126817 INT'L PATENTS PENDING

BMP, INC
53 MT. ARCHER RD., LYME CT 06371
(800) 504-8008 FAX: (860) 434-3195

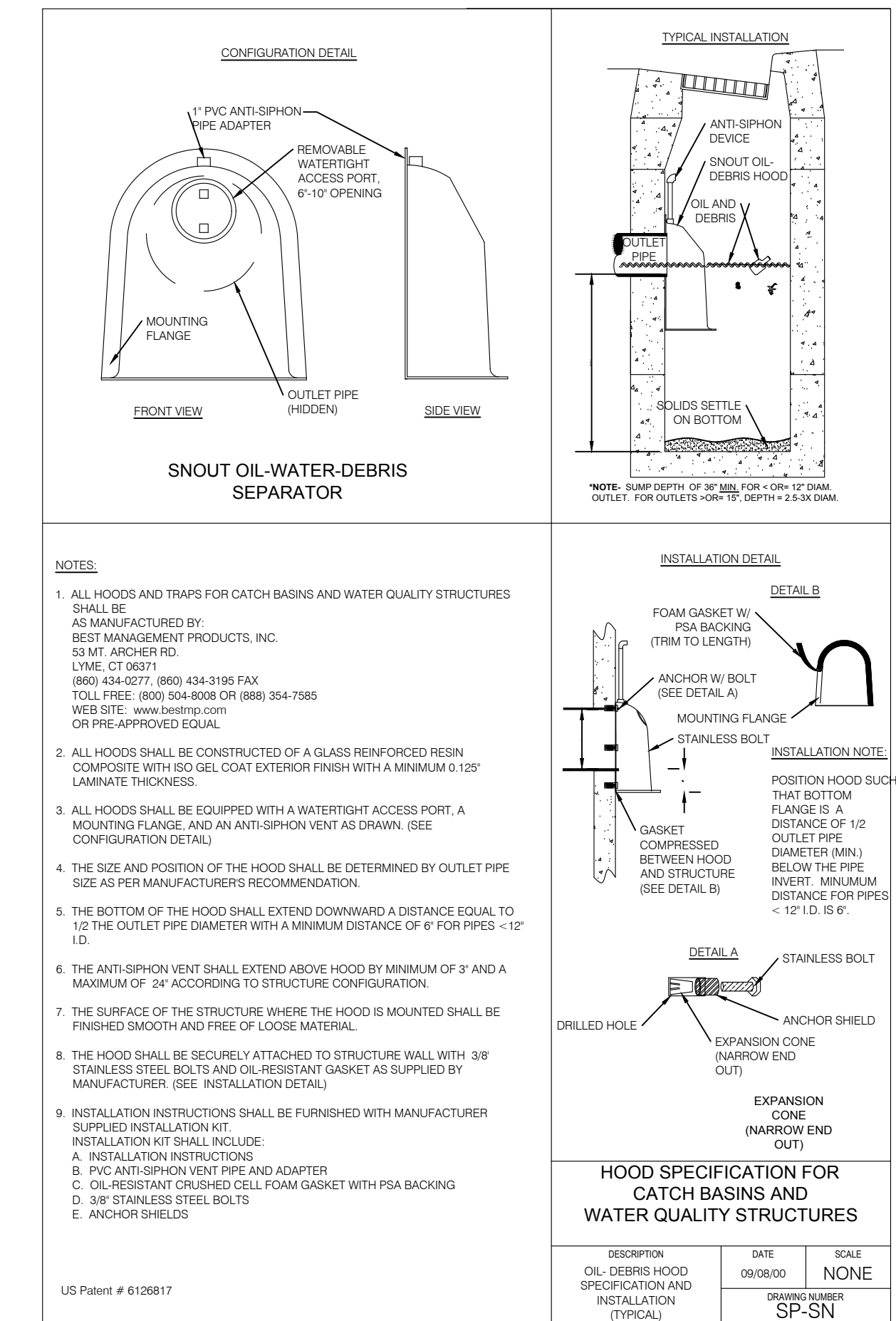
DESCRIPTION	DATE	SCALE
SNOUT SIZE COMPARISON	09/09/05	NONE
DRAWING NUMBER		SN-SIZES



- RULE # 1-** AT AN ABSOLUTE MINIMUM, STRUCTURE INTERNAL DIMENSIONS MUST BE AT LEAST LARGE ENOUGH TO ACCOMMODATE EXTERNAL DIMENSIONS OF THE SNOUT, AND ALLOW FOR A PERSON TO INSTALL IT. REFER TO BMP, INC. CAD DETAILS FOR PART DIMENSIONS.
- RULE #2-** USE ONLY 'F' SERIES SNOUTS FOR RECTANGULAR OR SQUARE STRUCTURES, AVAILABLE IN 12", 18", 24", 30", 48", 72" AND 96" SIZES. USE ONLY 'R' SERIES SNOUTS FOR ROUND STRUCTURES, AVAILABLE IN 12", 18", 24", 30", AND 54" SIZES.
- *SUMP DEPTH (Ds) SUMP DEPTH SHOULD BE A MINIMUM OF 36" FOR ANY NEW CONSTRUCTION FOR PIPES 12" AND LESS. FOR 15"-18" PIPE MIN. DEPTH SHOULD BE 48". OPTIMAL SIZING IS AT LEAST 2.5X TO 3X OUTLET PIPE DIAMETER (Dp) FOR MAXIMUM POLLUTANT REMOVAL EFFICIENCY AND MINIMAL CLEANOUT FREQUENCY.
- STRUCTURE DIMENSIONS- PLAN DIMENSIONS FOR A STRUCTURE SHOULD BE UP TO 7X AREA OF OUTLET PIPE FOR MAXIMUM POLLUTANT REMOVAL EFFICIENCY AND MINIMAL CLEANOUT FREQUENCY. (SEE 'MAINTENANCE CONSIDERATIONS' DOCUMENT FOR MORE INFORMATION)
- IMPORTANT NOTICE- DO NOT CONFUSE PIPE O.D. WITH PIPE I.D. A SNOUT FITS OVER A PIPE, NOT IN IT. THUS, SNOUT MUST BE SIZED TO FIT OVER PIPE OPENING IN STRUCTURE. SNOUTS ARE AVAILABLE FOR ROUND STRUCTURES TO ACCOMMODATE PIPES OF 54" O.D. MAX. FOR PIPES 54" O.D. AND ABOVE, USE SQUARE OR RECTANGULAR STRUCTURES.

DESCRIPTION	DATE	SCALE
SNOUT SIZING CHART	09/09/05	NONE
DRAWING NUMBER		SP-SI

BMP, INC.
53 MT. ARCHER ROAD, LYME CT, 06371
(800) 504-8008 FAX: (860) 434-3195



- NOTES:**
- ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE MANUFACTURED BY: BEST MANAGEMENT PRODUCTS, INC. 53 MT. ARCHER RD. LYME CT 06371 (860) 434-0277, (860) 434-3195 FAX TOLL FREE: (800) 504-8008 OR (888) 354-7565 WEB SITE: www.bmpinc.com OR PRE-APPROVED EQUAL.
 - ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
 - ALL HOODS SHALL BE EQUIPPED WITH A WATER-TIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT AS DRAWN. (SEE CONSTRUCTION DETAIL)
 - THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION.
 - THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A DISTANCE EQUAL TO 1/2 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 6" FOR PIPES < 12" I.D.
 - THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 24" ACCORDING TO STRUCTURE CONFIGURATION.
 - THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL.
 - THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3/8" STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE INSTALLATION DETAIL)
 - INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT. INSTALLATION KIT SHALL INCLUDE:
 - INSTALLATION INSTRUCTIONS
 - PVC ANTI-SIPHON VENT PIPE AND ADAPTER
 - OIL-RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING
 - 3/8" STAINLESS STEEL BOLTS
 - ANCHOR SHIELDS

DESCRIPTION	DATE	SCALE
HOOD SPECIFICATION FOR CATCH BASINS AND WATER QUALITY STRUCTURES	09/09/05	NONE
DRAWING NUMBER		SP-SN

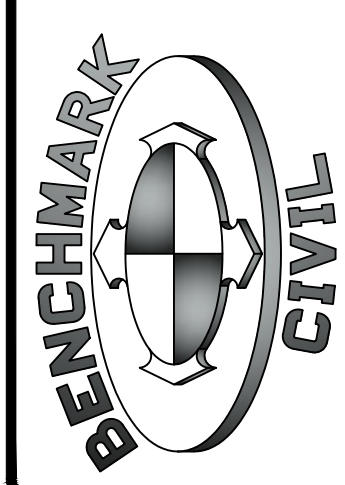
18F SNOUT DETAILS

SCALE: NTS

NO.	DATE	DESCRIPTION
1	09/03/2020	ISSUE FOR PERMIT

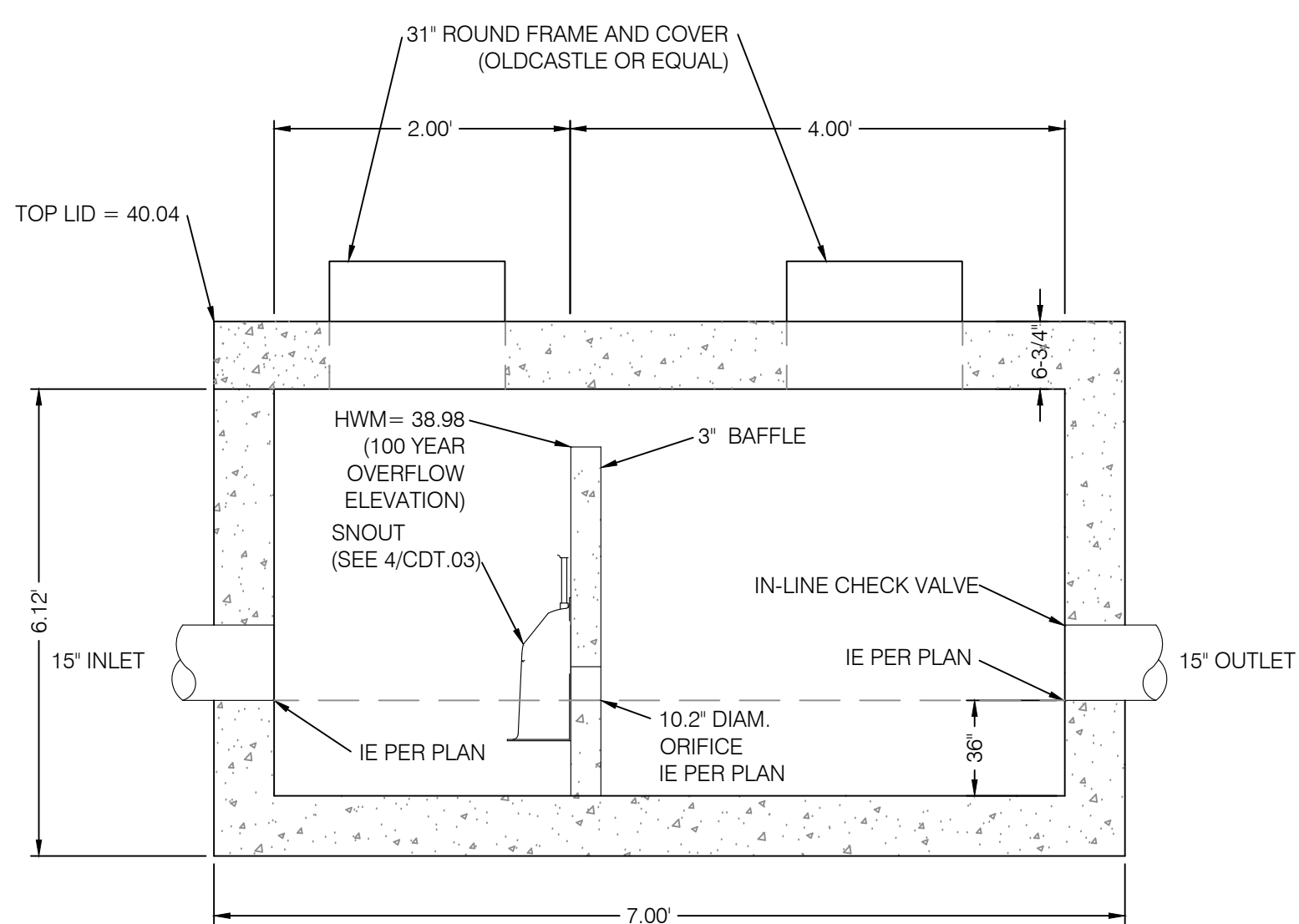
PRELIMINARY
PLAN
NOT FOR CONSTRUCTION

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

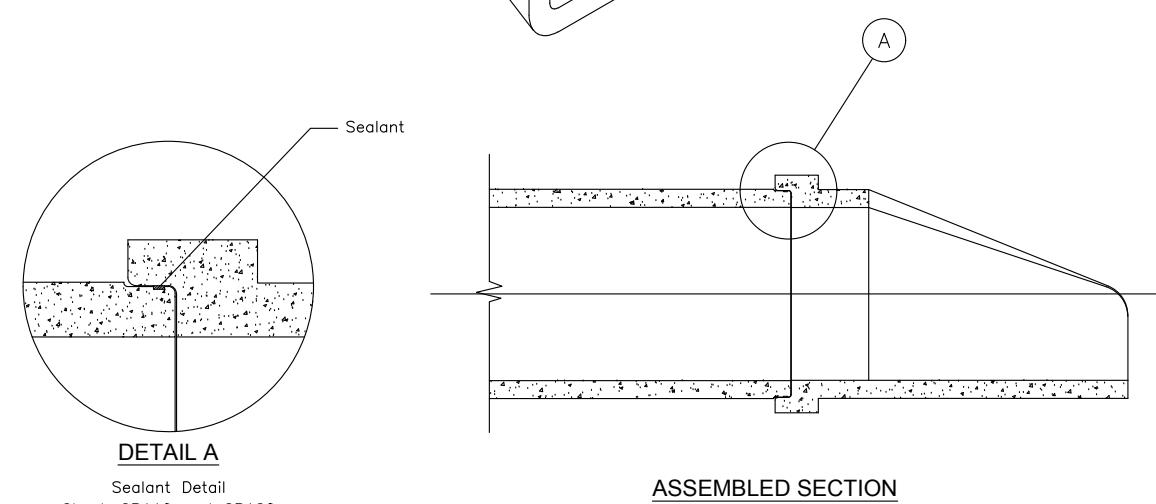
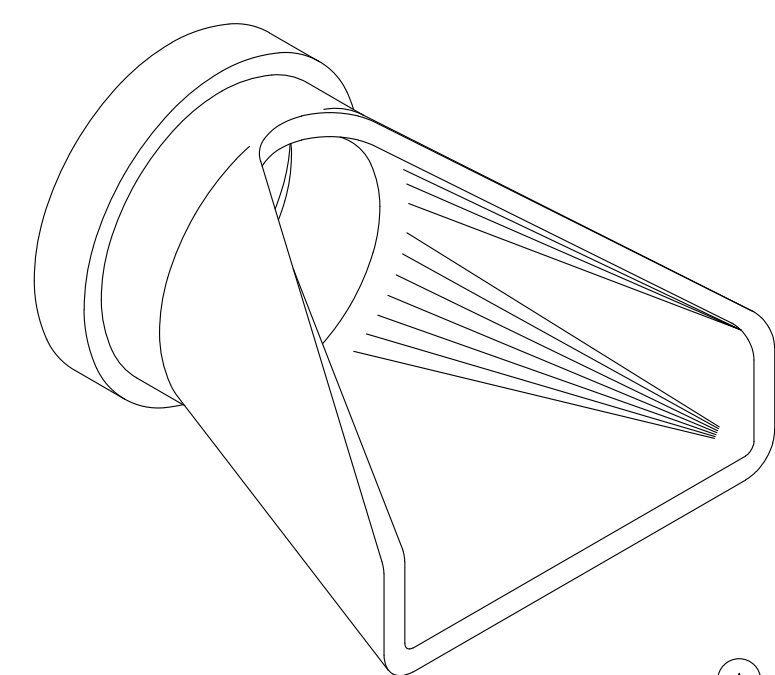


WINSTON PARK
3701 W 1800 S
WEBER COUNTY, UTAH

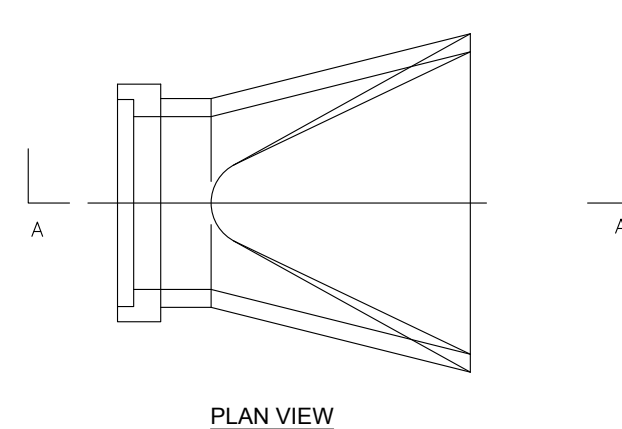
PROJECT NO. 2006142
DETAILS & NOTES SHEET
CDT.03
19 OF 20



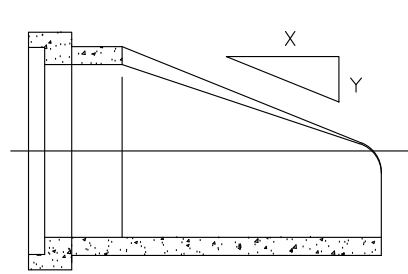
4'X6' CLEANOUT BOX WITH BAFFLE ①
SCALE: N.T.S.



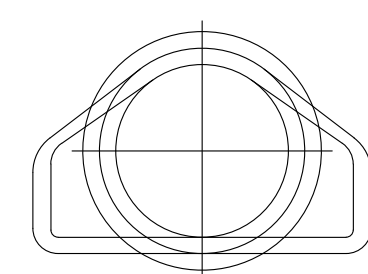
Diameter	Code	Weight
12"	FE512B	530#
18"	FE518B	740#
18"	FE518B	960#
24"	FE524B	1,540#
30"	FE530B	2,100#
36"	FE536B	4,100#
42"	FE542B	5,380#
48"	FE548B	6,550#



PLAN VIEW



SECTION A-A



END VIEW

Diam.	Slope X : Y	A					
		A	B	C	E	F	G
12"	2.5 : 1	4"	24"	48"	72"	24"	2"
18"	2.5 : 1	6"	27"	48"	72"	30"	2"
18"	2.5 : 1	9"	27"	48"	72"	36"	2"
24"	2.5 : 1	9"	36"	54"	72"	48"	3"
30"	2.5 : 1	12"	54"	72"	72"	60"	3"
36"	2.5 : 1	15"	63"	72"	72"	72"	4"
42"	2.5 : 1	21"	63"	72"	72"	78"	4"
48"	2.5 : 1	24"	72"	72"	72"	84"	5"

Oldcastle Precast
801 West 12th Street, Ogden, Utah 84403
Phone: 801-395-1111 Fax: 801-393-7669

Flared End
FILE NAME: 2102PERFLARE
REV. DATE: 5/2018
www.oldcastleprecast.com

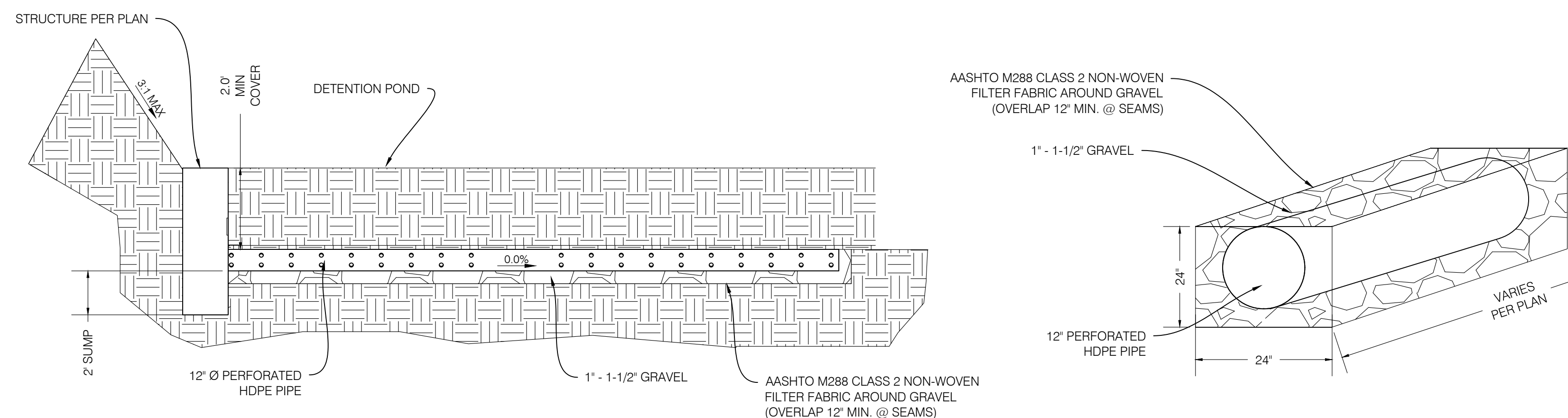
Flared End Section for Round Pipe
Copyright © 2008

Oldcastle Precast
801 West 12th Street, Ogden, Utah 84403
Phone: 801-395-1111 Fax: 801-393-7669

Flared End
FILE NAME: 2102PERFLARE
REV. DATE: 5/2018
www.oldcastleprecast.com

Flared End Section for Round Pipe
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FLARED END SECTION WITH TRASH GATE ②
SCALE: N.T.S.



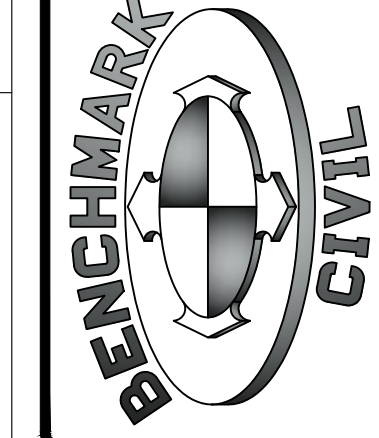
PERFORATED PIPE DETAIL ③
SCALE: N.T.S.

No.	DATE	DESCRIPTION

DRAWN BY: JHO
 CHECKED BY: MCP
 FIELD CREW: SURVEY
 DATE: 09/03/2020
 TOWN FILE: 200142 SITE OPTIMZ
 SCALE: 0.1
 0 10
 SCALE MEASURES 1/8" ON FULL SIZE SHEETS
 ADJUST ACCORDINGLY FOR REDUCED SIZE SHEETS

PRELIMINARY
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WINSTON PARK
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WEBER COUNTY, UTAH

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