

**KELTIC ENGINEERING, INC.**315 Adams Lane - Lewiston, ID 83501 - Phone (208) 743-2135
9425 N. Nevada Street - Suite 204 Spokane, WA 99218 Phone (509) 464-3000

JOB NEZ PERCE PLAZA / STORM DRAINAGE
 SHEET NO. ONE OF 14
 CALCULATED BY EPH DATE 5/5/16
 CHECKED BY _____ DATE _____
 SCALE Job No 16-0006

STORM DRAINAGE CALCS RUNOFF NEZ PERCE PLAZABUILDING AREA

PROPOSED RETAIL	23,600
	12,100
	2,432
	6,680
	8,170
	5,184
	6,280
TJ MAXX	24,200
EDDIE BAUER	6,460
FAMOUS FOOTWEAR	6,500
PIER 1 IMPORTS	8,960
rue 21	6,480
MULTI-TENANT (INLAND)	8,170
ROSS DRESS FOR LESS	30,200

$$\Sigma = 147,246 \text{ SF.}$$

TOTAL ASPHALT (CAD): 436,528 S.F.TOTAL CONCRETE (CAD): 42,320 S.F.

NEZ PERCE PLAZA (BY PLAT No. 2) = 17.963 ACRES = 782,468 S.F.

LANDSCAPE = REMAINDER AREA

L.A = TOTAL AREA - BLDG AREA - ASPHALT AREA - CONCRETE AREA

$$L.A. = \frac{782,468}{782,468} - 147,246 - 436,528 - 42,320$$

$$L.A. = 156,374 \text{ S.F.}$$

FOR CALCS:

BLDG AREA:	147,246 S.F.	3.3803 AC
ASPHALT:	436,528 S.F.	10.0213 AC
CONCRETE:	42,320 S.F.	0.9715 AC
LANDSCAPE:	156,374 S.F.	3.5899 AC



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JOB NEZ PERCE PLAZA / STORM DRAINAGE
SHEET NO. TWO OF 14
CALCULATED BY EPH DATE 5/5/16
CHECKED BY _____ DATE _____
SCALE Job No 16-0006

PRE DEVELOPMENT

DRAINAGE PATH

$$L = 1006'$$

$$\Delta Z = 1270 - 1168 = 102'$$

$$C = 0.20 \quad - \text{(FARM FIELD)}$$

$$q = C i A \quad - \text{SEE ATTACHED CALCS FOR RUNOFF RATE \& VOLUME}$$

POST DEVELOPMENT

DRAINAGE PATH

OVER PLOT

$$L = 400'$$

$$\Delta Z = 1188.50 - 1179.93 = 8.57'$$

IN SLO PIPES

<u>NO.</u>	<u>BETWEEN</u>	<u>LENGTH</u>	<u>SLOPE</u>	<u>SIZE</u>	<u>VEL.</u>	<u>(LENGTH/VEL)</u> <u>TIME (SEC)</u>
1	CB12-SDMH5	117	0.22%	12"	2.5217	46.4
2	SDMH5-SDMH6	274	0.11%	12"	1.7831	153.7
3	SDMH6-SDMH7	201	0.11%	12"	1.7831	112.7
4	SDMH7-SDMH8	99	0.23%	12"	2.5783	38.4
5	SDMH8-SDMH9	207	0.00%*	15"	1.5713	131.7
6	SDMH9-SDMH18	51	0.00%*	18"	1.7750	28.7
7	SDMH18-SDMH10	50	3.75%	18"	34.3727	1.5
8	SDMH10-EXT'G CB	26	2.55%	18"	28.3444	0.9
						<u>514.0 sec</u>
						<u>8.6 MIN</u>

$$V = \frac{1.49}{n} R^{2/3} S^{1/2}$$

$$R = \frac{D}{4}$$

$$n = 0.011$$

$$R_{12}^{2/3} = 0.3969$$

$$R_{15}^{2/3} = 1.1604$$

$$R_{18}^{2/3} = 1.3104$$

$$* \text{ USE: } \frac{0.0001}{0.0005}$$

ADD 8.6 MIN TO OVERLAND t_c



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JOB NEZ PERCE PLAZA / STORM DRAINAGE
SHEET NO. THREE OF 14
CALCULATED BY EPH DATE 5/5/16
CHECKED BY _____ DATE _____
SCALE Job No 16-006

STORM WATER RUN OFF CALCULATIONS

STORAGE REQ'D = POST DEVELOPMENT - PRE DEVELOPMENT

STORAGE REQ'D = 32,524 - 6360

STORAGE REQ'D = 26,164 FT³

STORAGE IN 23rd STREET POND ALLOWABLE IS

46,326 CUBIC FEET TO BEDROCK PER MARCH 6, 2002 LETTER

STORAGE REQ'D << STORAGE ALLOWED ∴ O.K

KELTIC ENGINEERING, INC.
315 ADAMS LANE
LEWISTON, IDAHO 83501
(208) 743-2135
Fax (208) 743-2136

JOB	Nez Perce Plaza - rue21		
SHEET No.	<u>Four</u>	OF	<u>14</u>
CALCULATED BY	<u>EFH</u>	DATE	<u>5/5/16</u>
CHECKED BY	<u></u>	DATE	<u></u>
JOB No.	<u>16-0006</u>		

DETERMINATION OF PRE DEVELOPED VOLUME

FIND (T_c), TIME OF CONCENTRATION

CHANNEL LENGTH	0.191	MILES	1006 feet
ELEVATION CHANGE	102	FEET	

$$T_c (\text{OPEN CHANNEL}) = ((11.9) * (L)^3 / H)^{0.385}$$

$$T_c (\text{OPEN CHANNEL}) = 0.0644 \text{ HR} = \underline{\underline{3.87 \text{ MIN}}}$$

TOTAL TIME (T_c) = TIME IN OPEN CHANNEL + FIVE MINUTES

$$T_c \text{ TOTAL} = \underline{\underline{8.87 \text{ MIN}}}$$

FROM ZONE C - INTENSITY-DURATION-FREQUENCY CHART, RAINFALL INTENSITY = 2.35 In/Hr

Find Q_p Pre

$Q_p = C_w * i * A$	$i = 2.35$	$A = 17.6930$	$C = 0.20$
$Q_p = \underline{\underline{8.32 \text{ ft}^3/\text{sec}}}$			Unimproved Area

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JOB Nez Perce Plaza - rue21
 SHEET No. Five
 CALCULATED BY EFH
 CHECKED BY 0
 JOB No. 16-0006

OF 14
 DATE 5/5/16
 DATE _____

UNIT HYDROGRAPH

(PRE DEVELOPED)

Qp = 8.32 ft³/sec or 498.94 ft³/min
 tc = 531.97 sec or 8.87 min

BASIC VALUES		CALCULATED VALUES		VOLUME CALCULATIONS		
t	q	t (min)	q (ft ³ /min)	V1	V2	V Total
0	0	0	0	0	0	0
3	5	1.16	24.95	28.85	14.43	14.43
7	15	2.70	74.84	115.40	38.47	76.93
10	35	3.85	174.63	201.95	57.70	144.25
13	56	5.01	279.41	323.12	60.59	262.54
16	77	6.17	384.19	444.30	60.59	383.71
18	90	6.94	449.05	346.20	25.00	321.20
20	97	7.71	483.97	373.13	13.46	359.67
23	100	8.87	498.94	577.01	8.66	568.35
27	96	10.41	478.98	738.57	15.39	753.96
30	85	11.56	424.10	490.46	31.74	522.19
34	72	13.11	359.24	553.93	50.01	603.93
40	50	15.42	249.47	577.01	126.94	703.95
47	33	18.12	164.65	444.30	114.44	558.74
53	24	20.43	119.75	276.96	51.93	328.89
60	16	23.13	79.83	215.42	53.85	269.27
67	11	25.83	54.88	148.10	33.66	181.76
84	4	32.38	19.96	130.79	114.44	245.23
100	0	38.55	0.00	0.00	61.55	61.55
				VOLUME = <u>6360.55 CU FT</u>		

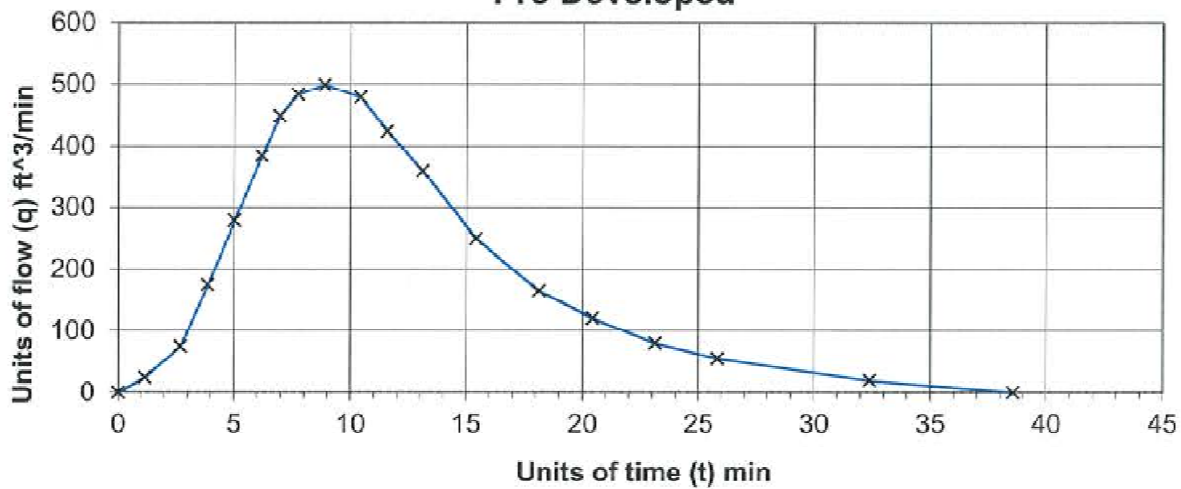
FROM VOLUME ANALYSIS, THE PRE-DEVELOPED VOLUME
 FOR THE AREA = **6360.55 CU FT**

KELTIC ENGINEERING, INC.
315 ADAMS LANE
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Fax (208) 743-2136

JOB Nez Perce Plaza - rue21
SHEET No. Six
CALCULATED BY EFH
CHECKED BY 0
JOB No. 16-0006

OF 14
DATE 5/5/16
DATE _____

FLOOD HYDROGRAPH Pre Developed



KELTIC ENGINEERING, INC.
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Fax (208) 743-2136

JOB	Nez Perce Plaza - rue21		
SHEET No.	<u>Seven</u>	OF	<u>14</u>
CALCULATED BY	<u>EFH</u>	DATE	<u>5/5/16</u>
CHECKED BY	<u></u>	DATE	<u></u>
JOB No.	<u>16-006</u>		

DETERMINATION OF POST DEVELOPED VOLUME

FIND (Tc), TIME OF CONCENTRATION

CHANNEL LENGTH	<u>0.076</u>	MILES	400 feet
ELEVATION CHANGE	<u>8.57</u>	FEET	

$$T_c (\text{OPEN CHANNEL}) = ((11.9) * (L)^3 / H)^{0.385}$$

$$T_c (\text{OPEN CHANNEL}) = 0.0576 \text{ HR} = \underline{\underline{3.46 \text{ MIN}}}$$

TOTAL TIME (Tc) = TIME IN OPEN CHANNEL + FIVE MINUTES + 8.6 MINUTES FROM PIPE FLOW

Tc TOTAL = 17.06 MIN

FROM ZONE C - INTENSITY-DURATION-FREQUENCY CHART, RAINFALL INTENSITY = 1.75 In/Hr

FIND Cw

USE:	C =	0.95	Building
	C =	0.95	Concrete
	C =	0.80	Asphalt
	C =	0.20	UNIMPROVED AREAS

USE:	A =	<u>3.38</u>	ACRES, BUILDING	147,246 FEET
	A =	<u>0.97</u>	ACRES, CONCRETE	42,320 FEET
	A =	<u>10.02</u>	ACRES, ASPHALT	436,528 FEET
	A =	<u>3.59</u>	ACRES, UNIMPROVED AREAS	156,374 FEET

$$C_w = \underline{\underline{0.703}}$$

FIND Qp POST

$$Q_p = C_w * i * A \quad i = 1.75 \quad A = 17.96$$

$$Q_p = \underline{\underline{22.10 \text{ ft}^3/\text{sec}}}$$

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JOB Nez Perce Plaza - rue21
 SHEET No. EIGHT
 CALCULATED BY EFH
 CHECKED BY _____
 JOB No. 16-006

OF 14
 DATE 5/5/16
 DATE _____

UNIT HYDROGRAPH

(POST DEVELOPED)

Qp = 22.10 ft³/sec or 1326.08 ft³/min
 tc = 1023.46 sec or 17.06 min

BASIC VALUES		CALCULATED VALUES		VOLUME CALCULATIONS		
t	q	t (min)	q (ft ³ /min)	V1	V2	V Total
0	0	0	0	0	0	0
3	5	2.22	66.30	147.52	73.76	73.76
7	15	5.19	198.91	590.08	196.69	393.39
10	35	7.42	464.13	1032.64	295.04	737.60
13	56	9.64	742.61	1652.23	309.79	1342.44
16	77	11.87	1021.08	2271.82	309.79	1962.02
18	90	13.35	1193.47	1770.25	127.85	1642.40
20	97	14.83	1286.30	1907.93	68.84	1839.09
23	100	17.06	1326.08	2950.41	44.26	2906.15
27	96	20.02	1273.04	3776.53	78.68	3855.20
30	85	22.25	1127.17	2507.85	162.27	2670.12
34	72	25.22	954.78	2832.39	255.70	3088.10
40	50	29.67	663.04	2950.41	649.09	3599.50
47	33	34.86	437.61	2271.82	585.16	2856.98
53	24	39.31	318.26	1416.20	265.54	1681.73
60	16	44.50	212.17	1101.49	275.37	1376.86
67	11	49.69	145.87	757.27	172.11	929.38
84	4	62.30	53.04	668.76	585.16	1253.92
100	0	74.16	0.00	0.00	314.71	314.71
				VOLUME =		32523.36 CU FT

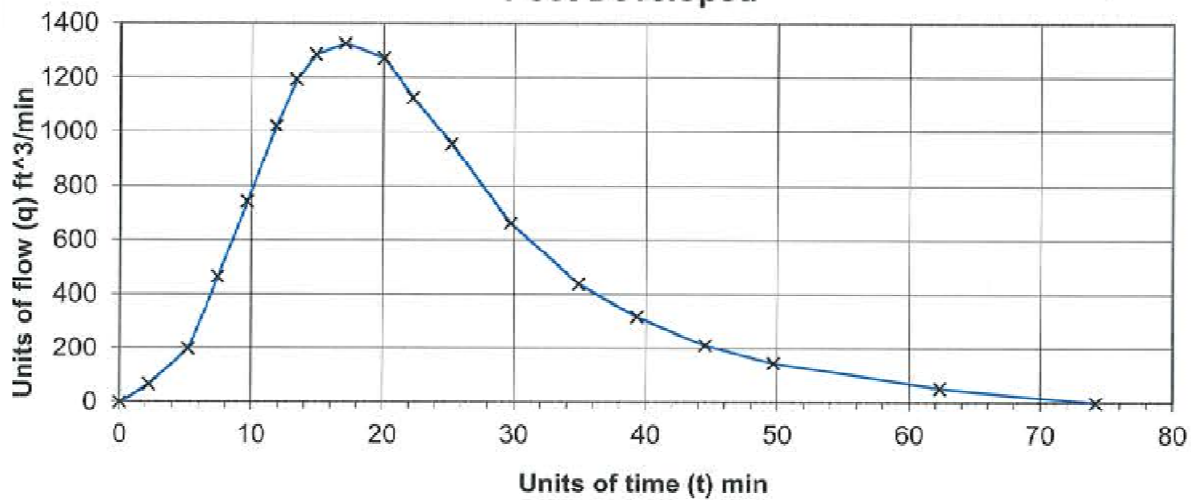
FROM VOLUME ANALYSIS, THE POST-DEVELOPED VOLUME
 FOR THE AREA = 32523.36 CU FT

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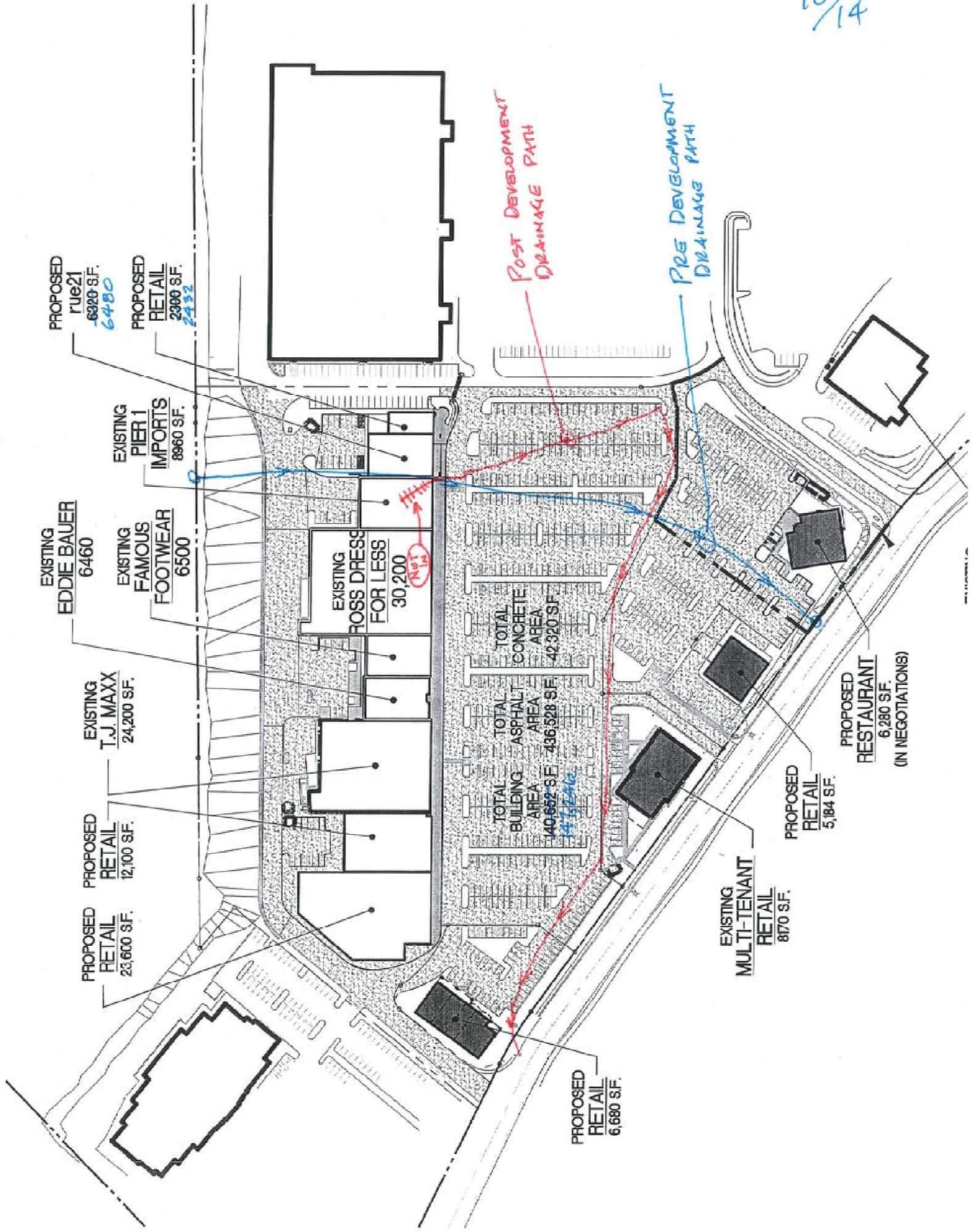
JOB Nez Perce Plaza - rue21
SHEET No. Nine
CALCULATED BY EFH
CHECKED BY _____
JOB No. 16-006

OF 14
DATE 5/5/16
DATE _____

FLOOD HYDROGRAPH Post Developed



10/14



Vandervert Construction Inc.

General Contractors

March 06, 2002

Joel Ristau
City of Lewiston
P.O. Box 617
Lewiston, ID 83501

RE: 23rd STREET DETENTION POND

Dear Joel:

We are in receipt of your letter dated March 1, 2002 regarding the additional costs associated with the expansion of the storm water detention pond on 23rd street. As a result of our in-depth discussion with Steelman-Duff last Friday, we are comfortable that the costs presented in their cost proposal for the work are fair and reasonable. As we indicated during our meeting, we would like you to instruct your contractor to proceed with the work accordingly. Bedrock LLC / Vandervert Construction agrees to reimburse the City of Lewiston \$77,230.92 for Steelman-Duff's direct cost to the project. We also understand that there will be some additional soft costs associated with these changes including construction oversight, inspection and additional design costs.

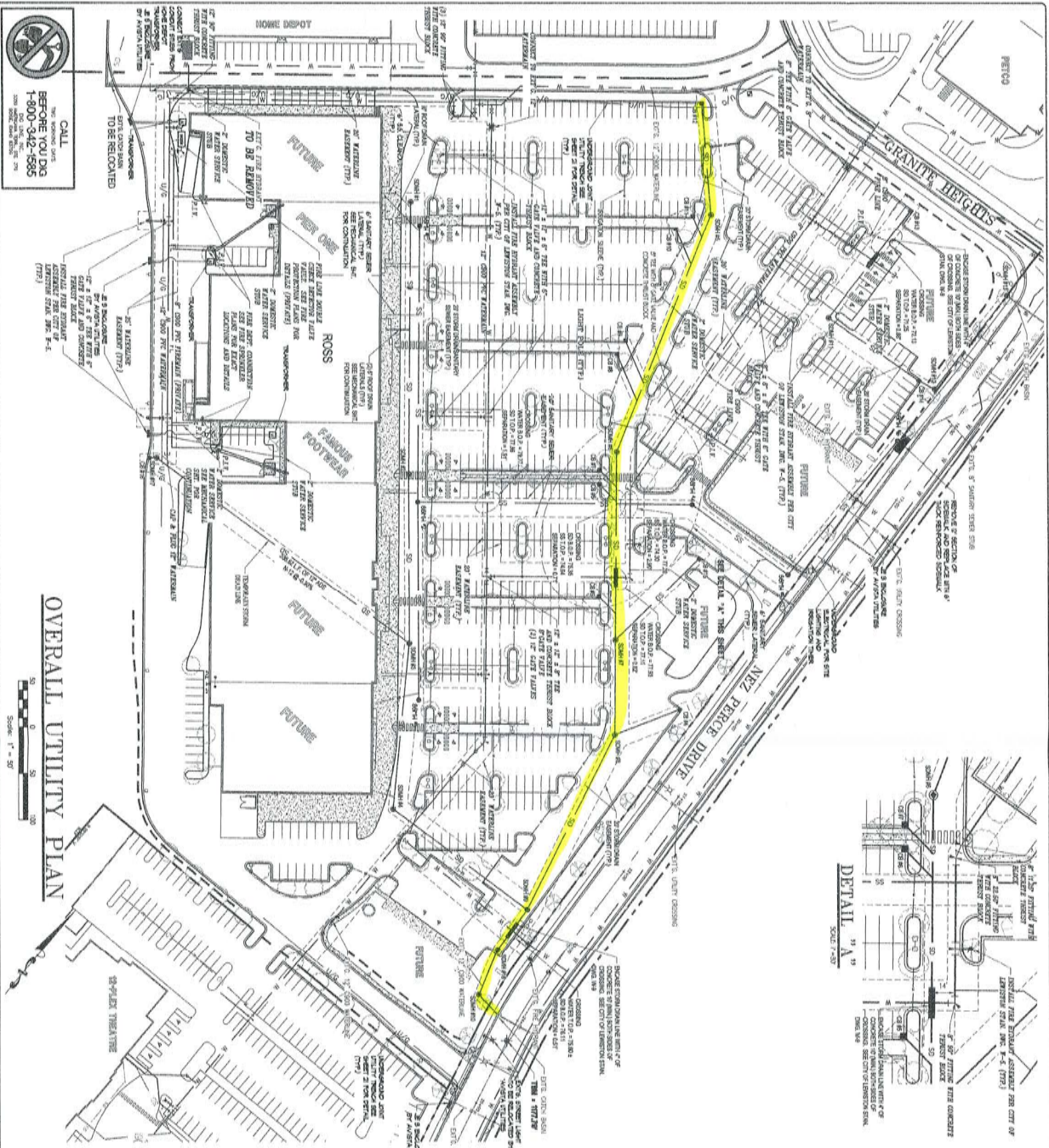
make To make the record clear, the fundamental reason that the modifications to this pond are being made and incorporated into your project is so as to create additional storm water detention capacity in the pond. As the pond was originally designed by TD&H, the pond capacity was 63,075 cubic feet. The present pond design provides for 109,401 cubic feet of capacity. Please understand that we agree to reimburse the City for the additional costs associated with this pond with the fundamental understanding that the incremental capacity of 46,326 cubic feet is available solely to our project. In the future, we will provide to the City a storm water time routing analysis so as to demonstrate the amount of area that can be serviced by this incremental capacity while still meeting the City's requirements under Resolution 80-100.

We trust that the above is consistent with your understanding. As always, should we need to discuss this matter further do not hesitate to contact me directly at (509) 467-6654.

Sincerely,


Neil O'Keeffe
Project Manager

Cc: Dick Vandervert



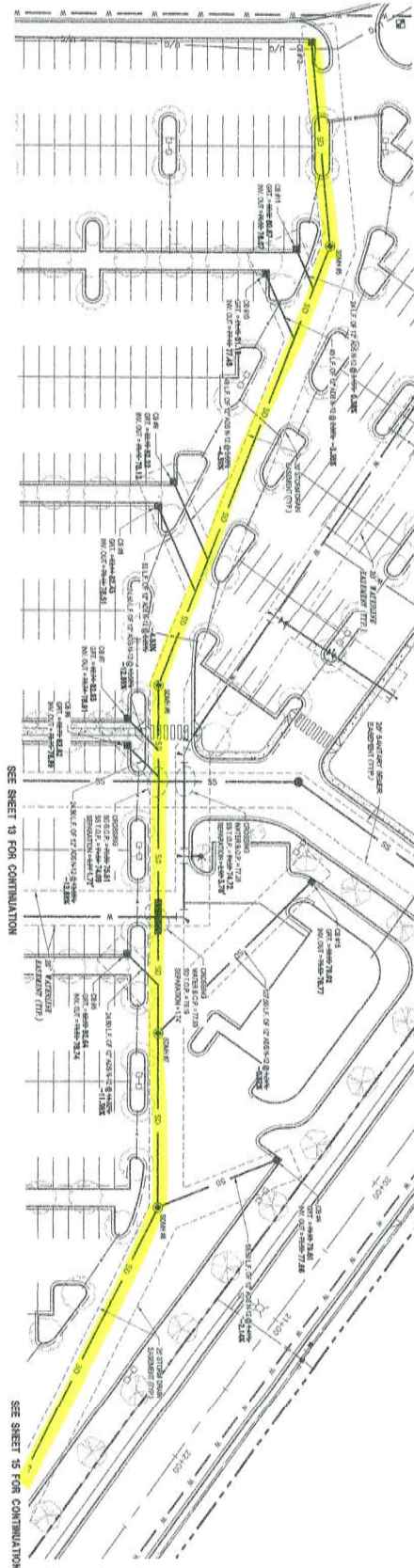
OVERALL UTILITY PLAN CONSTRUCTION NOTES:

- 1) THE UTILITY PLAN SHALL BE CONSIDERED AS A PART OF THE PROJECT AND SHALL BE USED IN CONJUNCTION WITH THE OTHER PROJECT DOCUMENTS.
- 2) THE UTILITY PLAN SHALL BE USED TO DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES AND TO BE USED TO LOCATE AND DEPTH OF ALL UTILITIES AND TO BE USED TO LOCATE AND DEPTH OF ALL UTILITIES.
- 3) THE UTILITY PLAN SHALL BE USED TO DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES AND TO BE USED TO LOCATE AND DEPTH OF ALL UTILITIES.
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- 20) THE UTILITY PLAN SHALL BE USED TO DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES AND TO BE USED TO LOCATE AND DEPTH OF ALL UTILITIES.

LEGEND

- 0.68 METERS
- 1.38 METERS
- 2.76 METERS
- 4.26 METERS
- 5.79 METERS
- 7.32 METERS
- 8.84 METERS
- 10.37 METERS
- 11.89 METERS
- 13.42 METERS
- 14.95 METERS
- 16.48 METERS
- 18.01 METERS
- 19.54 METERS
- 21.07 METERS
- 22.60 METERS
- 24.13 METERS
- 25.66 METERS
- 27.19 METERS
- 28.72 METERS
- 30.25 METERS
- 31.78 METERS
- 33.31 METERS
- 34.84 METERS
- 36.37 METERS
- 37.90 METERS
- 39.43 METERS
- 40.96 METERS
- 42.49 METERS
- 44.02 METERS
- 45.55 METERS
- 47.08 METERS
- 48.61 METERS
- 50.14 METERS
- 51.67 METERS
- 53.20 METERS
- 54.73 METERS
- 56.26 METERS
- 57.79 METERS
- 59.32 METERS
- 60.85 METERS
- 62.38 METERS
- 63.91 METERS
- 65.44 METERS
- 66.97 METERS
- 68.50 METERS
- 69.99 METERS
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- 73.05 METERS
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- 112.83 METERS
- 114.36 METERS
- 115.89 METERS
- 117.42 METERS
- 118.95 METERS
- 120.48 METERS
- 122.01 METERS
- 123.54 METERS
- 125.07 METERS
- 126.60 METERS
- 128.13 METERS
- 129.66 METERS
- 131.19 METERS
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- 170.97 METERS
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- 174.03 METERS
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- 183.21 METERS
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- 189.33 METERS
- 190.86 METERS
- 192.39 METERS
- 193.92 METERS
- 195.45 METERS
- 196.98 METERS
- 198.51 METERS
- 200.04 METERS
- 201.57 METERS
- 203.10 METERS
- 204.63 METERS
- 206.16 METERS
- 207.69 METERS
- 209.22 METERS
- 210.75 METERS
- 212.28 METERS
- 213.81 METERS
- 215.34 METERS
- 216.87 METERS
- 218.40 METERS
- 219.93 METERS
- 221.46 METERS
- 223.00 METERS
- 224.53 METERS
- 226.06 METERS
- 227.59 METERS
- 229.12 METERS
- 230.65 METERS
- 232.18 METERS
- 233.71 METERS
- 235.24 METERS
- 236.77 METERS
- 238.30 METERS
- 239.83 METERS
- 241.36 METERS
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- 244.42 METERS
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- 252.07 METERS
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- 270.43 METERS
- 271.96 METERS
- 273.49 METERS
- 275.02 METERS
- 276.55 METERS
- 278.08 METERS
- 279.61 METERS
- 281.14 METERS
- 282.67 METERS
- 284.20 METERS
- 285.73 METERS
- 287.26 METERS
- 288.79 METERS
- 290.32 METERS
- 291.85 METERS
- 293.38 METERS
- 294.91 METERS
- 296.44 METERS
- 297.97 METERS
- 299.50 METERS
- 301.03 METERS
- 302.56 METERS
- 304.09 METERS
- 305.62 METERS
- 307.15 METERS
- 308.68 METERS
- 310.21 METERS
- 311.74 METERS
- 313.27 METERS
- 314.80 METERS
- 316.33 METERS
- 317.86 METERS
- 319.39 METERS
- 320.92 METERS
- 322.45 METERS
- 323.98 METERS
- 325.51 METERS
- 327.04 METERS
- 328.57 METERS
- 330.10 METERS
- 331.63 METERS
- 333.16 METERS
- 334.69 METERS
- 336.22 METERS
- 337.75 METERS
- 339.28 METERS
- 340.81 METERS
- 342.34 METERS
- 343.87 METERS
- 345.40 METERS
- 346.93 METERS
- 348.46 METERS
- 350.00 METERS

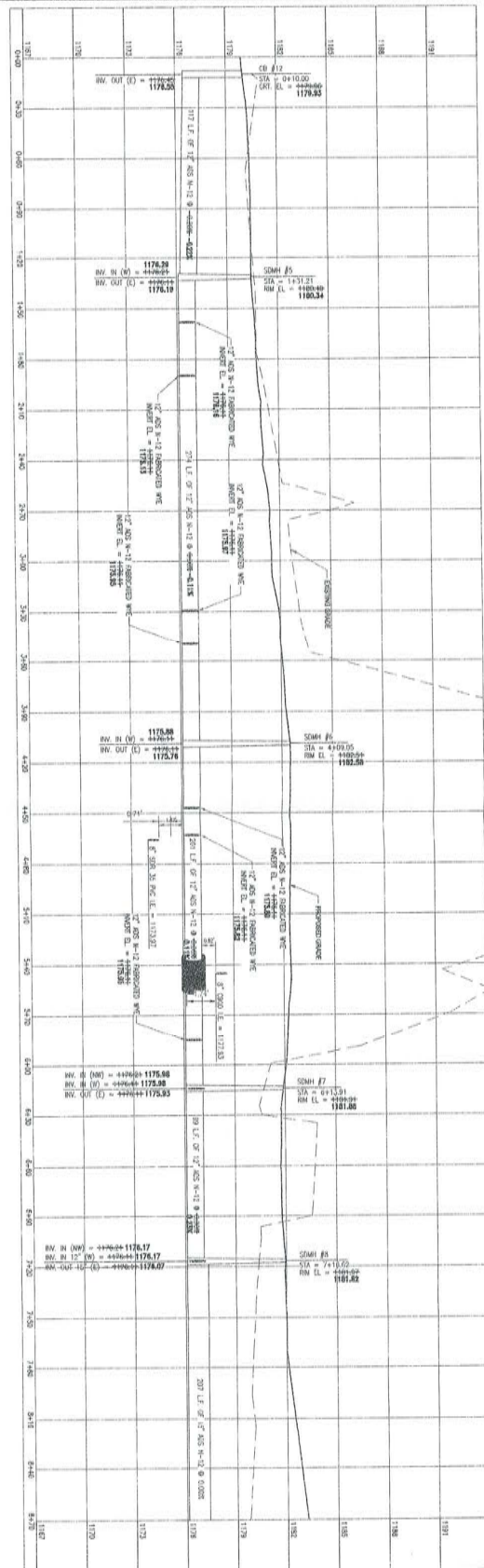
RECORD DRAWING 05-31-06



CB #12 TO SDMH #8



RECORD DRAWING 05-31-06



ISSUED BY:	DATE:	SUBJECT:
RECEIVED BY:		
PROJECT NO.	04-078	
SHEET NO.	16 OF 23	



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CB #12 TO SDMH #8
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