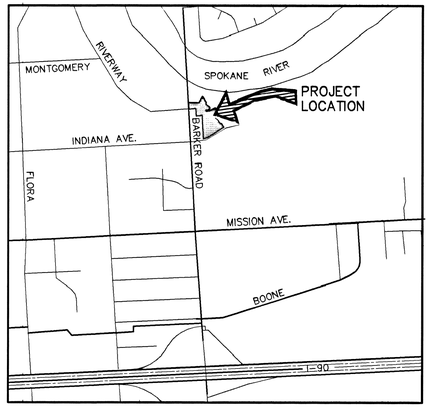
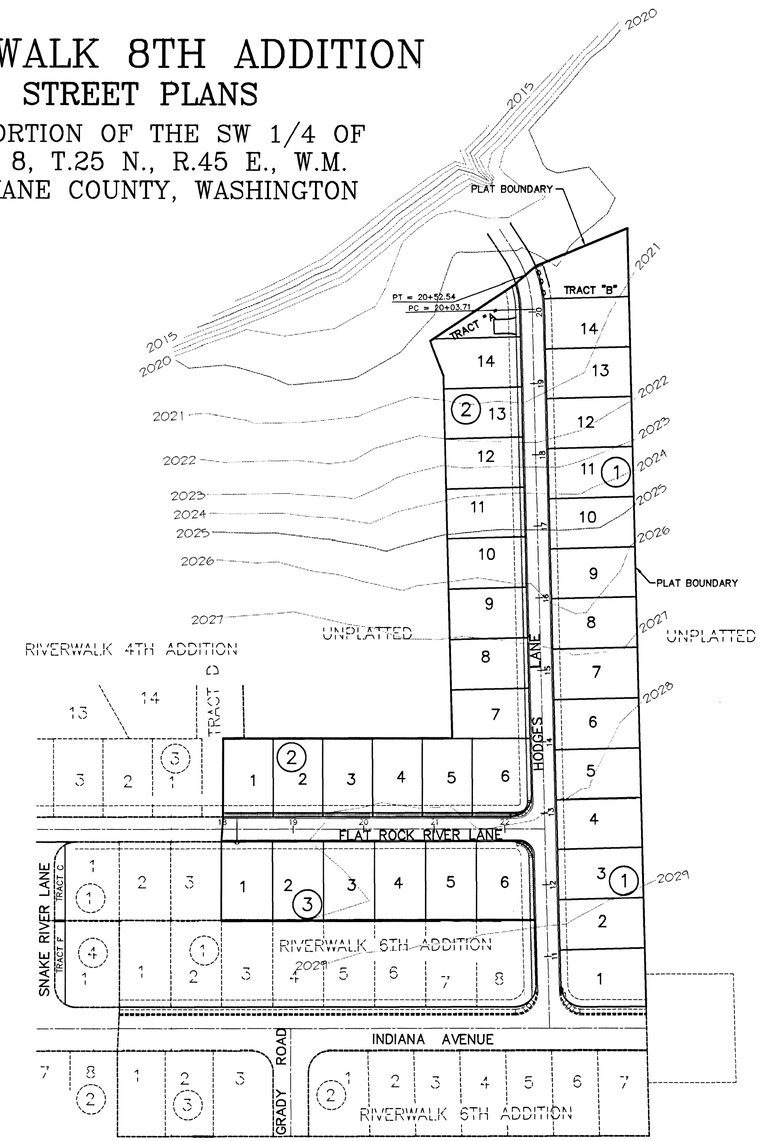
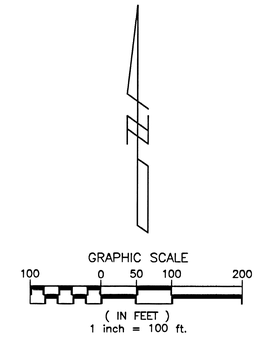
RIVERWALK 8TH ADDITION
STREET PLANS
A PORTION OF THE SW 1/4 OF
SEC 8, T.25 N., R.45 E., W.M.
SPOKANE COUNTY, WASHINGTON



VICINITY MAP





UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456·8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG

NOTES

1. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND EQUIPMENT TO CONSTRUCT AND INSTALL TO PROPER WORKING ORDER ALL IMPROVEMENTS AS DETAILED OR CALLED OUT IN THESE PLANS PER W.S.D.O.T./A.P.W.A. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENTLY ACCEPTED EDITION) SPECIFICATIONS.
2. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION 1995", AND AS AMENDED.
3. THE CONTRACTOR IS REQUIRED TO HAVE A VALID CONSTRUCTION PERMIT ON SITE AT ALL TIMES. THE ABSENCE OF THE PERMIT WILL RESULT IN AN IMMEDIATE SHUTDOWN OF WORK AND THE POSSIBLE REMOVAL OF THOSE ITEMS CONSTRUCTED WITHOUT THE PERMIT.
4. LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.
5. THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE ACCEPTED ROAD AND DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
6. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER, TODD WHIPPLE, @ 458-6840, THE SITE/PROJECT INSPECTING ENGINEER OR HIS REPRESENTATIVE, I.P.E.C. BRUCE HOWARD @ 458-6840 AND THE SPOKANE COUNTY ENGINEER'S OFFICE, CONSTRUCTION ENGINEER, ED PARRY, P.E. @ 456-3600.
7. FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC, "AMOCO" 4545 OR APPROVED EQUIVALENT, BETWEEN THE DRYWELL BARREL AND THE WASHED DRAINROCK, AND BETWEEN THE WASHED DRAINROCK AND NATIVE SOILS PER SPOKANE COUNTY STANDARD DETAIL B-1.
8. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG.
9. THE CONTRACTOR SHALL MAKE AN EFFORT TO PROTECT ALL CATCH BASINS AND DRYWELLS FROM BEING CONTAMINATED WITH SILT BY INSTALLING FILTER FABRIC UNDER THE LID FOR AT LEAST 6 WEEKS, OR UNTIL THE ESTABLISHMENT OF GRASS AND/OR OTHER SITE CONSTRUCTION WORK HAS ENDED.

   IN THE EVENT THAT SILT OR OTHER DELETERIOUS MATERIAL IS ALLOWED TO ENTER THE DRYWELLS OR CATCH BASINS THE CONTRACTOR WILL BE REQUIRED TO CLEAN THE DRYWELL OR CATCH BASIN OUT TO THE SATISFACTION OF THE CERTIFYING ENGINEER.
10. ALL DRYWELL CONNECTION PIPES SHALL BE PLACED BELOW THE DRYWELL CONCRETE CAP AND SHALL FLOW AS DIRECTED IN THE PLANS.
11. FOR ANY CURB GRADES LESS THAN 0.8% (0.0080FT./FT.), A WASHINGTON STATE-LICENSED PROFESSIONAL LAND SURVEYOR SHALL VERIFY THAT THE CURB FORMS ARE AT THE GRADES NOTED ON THE APPROVED PLANS, PRIOR TO PLACEMENT OF CURB MATERIAL. THE CONTRACTOR IS IS RESPONSIBLE FOR ARRANGING AND COORDINATING WORK WITH THE PROFESSIONAL LAND SURVEYOR.

TABLE OF CONTENTS

COVER SHEET — SHEET 1
HODGES LANE — SHEET 2
FLAT ROCK RIVER LANE — SHEET 3
DETAILS — SHEET 4
POND DETAILS — SHEET 5

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PRIVATE ROADS
PROJECT #: P-1414 G
DATE ACCEPTED: 2.12.99
ACCEPTANCE EXPIRES: 2.12.02
PROJECT LANE MILES: 0.28
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO RELEASE OF INSPECTION BOND.
APPROACH PERMIT REQUIRED! (509) 456-3600 PRIOR TO CONSTRUCTION

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO APPLICABLE EDITIONS OF THE SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION AND THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT. ALL DESIGN DEVIATIONS HAVE BEEN APPROVED BY THE SPOKANE COUNTY ENGINEER. I APPROVE THESE PLANS FOR CONSTRUCTION.

DEVELOPER'S APPROVAL — DATE 1/26/99

NO.	DATE	BY	REVISIONS

TODD A. WHIPPLE STATE OF WASHINGTON 25462 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 9/24/00

DATE: 1/12/99
DRAWN BY: SKM
MJI,RLM2,MLH
DESIGNED BY: SKM
CHECKED BY: TRM,BAH

SCALE: HORIZONTAL: 1"=100' VERTICAL: N/A

INLAND PACIFIC ENGINEERING
707 West 7th - Suite 200 Spokane, WA 99204
(509) 458-6840 FAX: (509) 458-6844

RIVERWALK - 8TH ADDITION
(A PLANNED UNIT DEVELOPMENT)
COVER SHEET
STREET

SHEET 1 OF 5
JOB NUMBER 99009

14.14 G

S:\SKMPROJ\99087\WA\SEW

CURVE TABLE

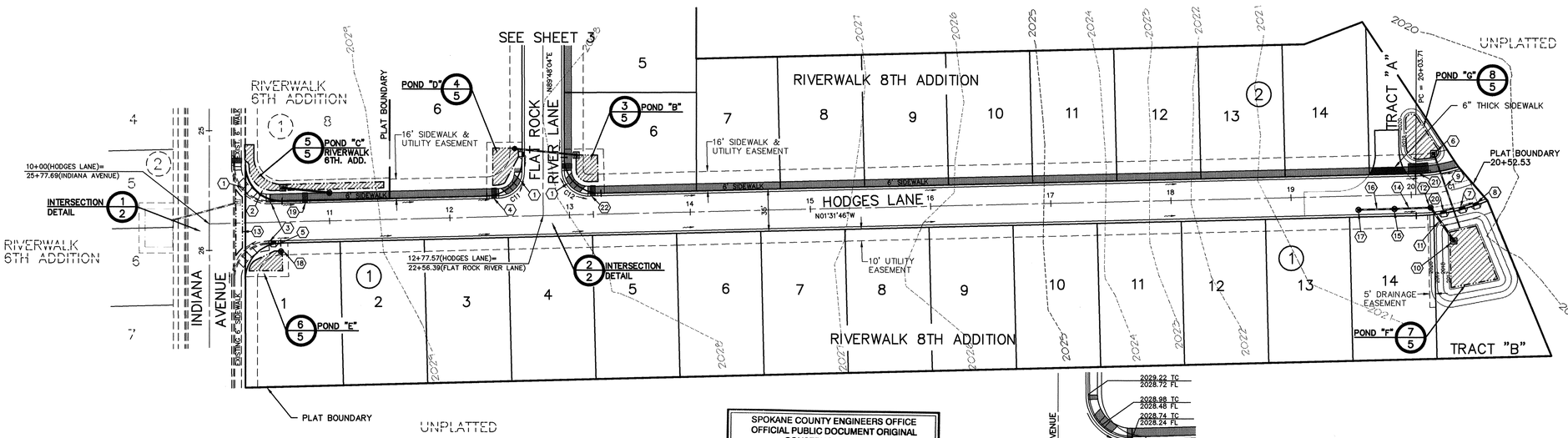
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING
C1	150.00'	48.82'	24.63'	48.61'	N10°51'29"W
C11	20.00'	30.95'	19.54'	27.95'	N45°52'08"W
C12	20.00'	31.88'	20.47'	28.61'	N44°07'54"E

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)
1 inch = 50 ft.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456•8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG



CONSTRUCTION NOTES

1. CONSTRUCT WHEELCHAIR RAMP PER SPOKANE COUNTY STANDARD PLAN A-5, DESIGN "A".
2. STREET AND STOP SIGN PER SPOKANE COUNTY AND M.U.T.C.D.
3. CURB TRANSITION, SEE DETAIL 1/4
4. TYPE "2" CURB INLET PER SPOKANE COUNTY STANDARD PLAN B-9, STA. 12+37.19 LT., TC EL=2026.98
5. 5' TYPE "1" CURB INLET PER SPOKANE COUNTY STANDARD PLAN B-8, STA. 10+52.92, TC EL.=2028.64.
6. CONCRETE INLET TYPE "2" WITH TYPE "2" METAL FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-6 AND B-13, STA. 20+24, 33' LT., GRATE EL.=2019.22
7. 5' TYPE "1" CURB INLET PER SPOKANE COUNTY STANDARD PLAN B-8, STA. 20+39.00 RT., TC EL.=2019.72.
8. 5' TYPE "1" CURB INLET PER SPOKANE COUNTY STANDARD PLAN B-8, STA. 20+50.00 RT., TC EL.=2019.62.
9. 65 L.F. OF 18" C.M.P., S=0.0100, I.E.(W)=2016.92, I.E.(E)=2018.51.
10. CONCRETE INLET TYPE "2" WITH TYPE "2" METAL FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-6 AND B-13, STA. 20+28, 42' RT., GRATE EL.=2016.94
11. 35 L.F. OF 18" C.M.P., S=0.0100, I.E.(E)=2013.98, I.E.(W)=2013.63
12. TYPE "B" DRYWELL WITH TYPE "4" METAL FRAME AND SOLID LID PER SPOKANE COUNTY STANDARD PLANS B-1a AND B-15, STA. 20+15, 11.5' RT., LID EL.=2019.94.
13. REMOVE TEMPORARY TYPE "A" CURB, TYPE III BARRICADE AND CONCRETE INLET TYPE I. PLUG 12" CMP AT NORTH END. RESTORE PAVEMENT EDGE. TEMPORARY POND H TO BE FILLED WITH NATIVE MATERIAL AND COMPACTED TO 95%.
14. 30 L.F. OF 18" C.M.P., S=0.0000, I.E.(N)=2013.63, I.E.(S)=2013.63.
15. TYPE "B" DRYWELL WITH TYPE "4" METAL FRAME AND SOLID LID PER SPOKANE COUNTY STANDARD PLANS B-1a AND B-15, STA. 19+86, 11.5' RT., LID EL.=2020.21.
16. 30 L.F. OF 18" C.M.P., S=0.0000, I.E.(N)=2013.63, I.E.(S)=2013.63.
17. TYPE "B" DRYWELL WITH TYPE "4" METAL FRAME AND SOLID LID PER SPOKANE COUNTY STANDARD PLANS B-1a AND B-15, STA. 19+56, 11.5' RT., LID EL.=2020.48.
18. TYPE "A" DRYWELL WITH TYPE "3" METAL FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-1a AND B-15, STA. 10+59, 24.5' RT., GRATE EL.=2027.91.
19. TYPE "2" CURB INLET PER SPOKANE COUNTY STANDARD PLAN B-9, STA. 10+80 LT., TC EL=2028.33.
20. 5' TYPE "1" CURB INLET PER SPOKANE COUNTY STANDARD PLAN B-8, STA. 20+24.00 RT., TC EL.=2019.86.
21. 4 TYPE "2" CURB INLETS PER SPOKANE COUNTY STANDARD PLAN B-9, STA. 20+00.00 LT., TC EL.=2020.08, STA. 20+04.67 LT., TC EL.=2020.04, STA. 20+09.34 LT., TC EL.=2019.99, STA. 20+14.01 LT., TC EL.=2019.95.
22. TYPE "2" CURB INLET PER SPOKANE COUNTY STANDARD PLAN B-9, STA 13+20 RT., TC EL.=2027.11

COUNTY DATUM

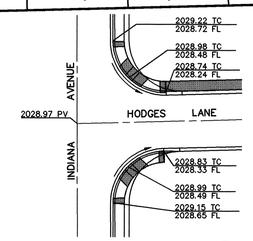
"X" MARKED IN FIRE HYDRANT ON NORTH SIDE OF INDIANA, NORTHEAST OF INTERSECTION OF McMILLAN LN. AND INDIANA AVE. EL = 2029.93

DEVELOPER'S APPROVAL

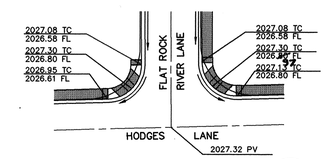
1/26/99
DATE

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PRIVATE ROADS
PROJECT #: P-14146
DATE ACCEPTED: 2.12.99
ACCEPTANCE EXPIRES: 2.12.02
PROJECT LANE MILES: 0.28
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO RELEASE OF INSPECTION BOND.
APPROACH PERMIT REQUIRED! (509) 456-3600
PRIOR TO CONSTRUCTION

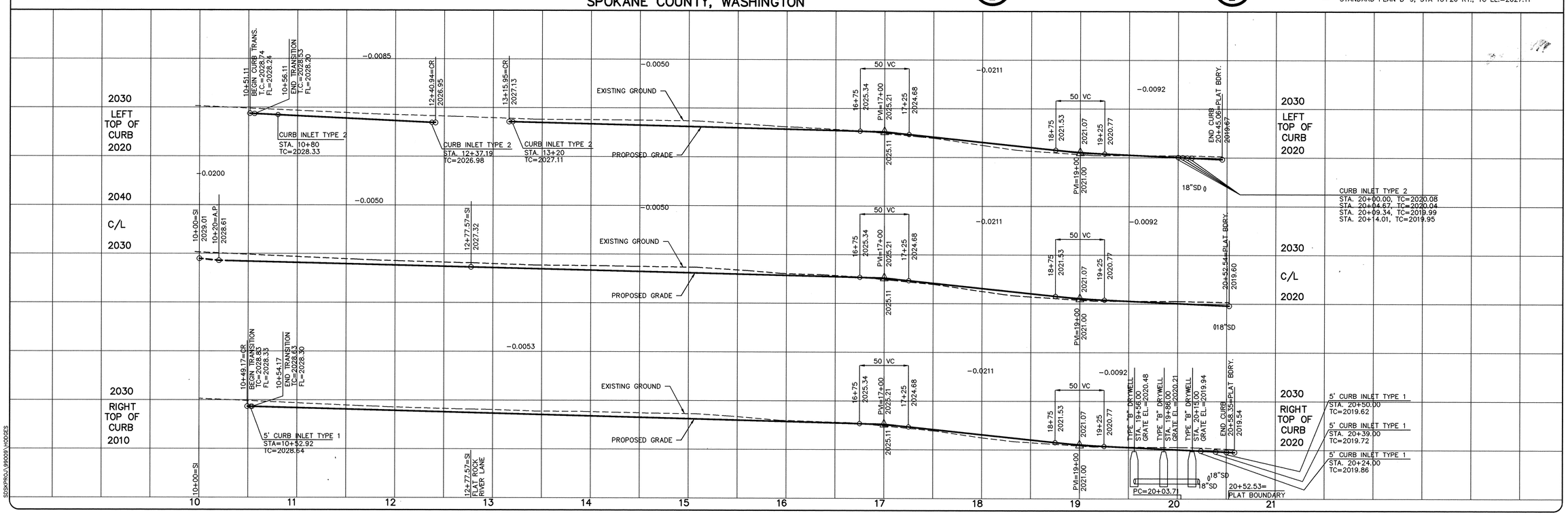
SEC. 8, T.25 N., R.45 E.,W.M.
SPOKANE COUNTY, WASHINGTON



INTERSECTION DETAIL 1/2
NOT TO SCALE



INTERSECTION DETAIL 2/2
NOT TO SCALE



NO.	DATE	BY	REVISIONS

DATE: 1/12/99
DRAWN BY: MJL
DESIGNED BY: SKM
CHECKED BY: TRW

SCALE:
HORIZONTAL: 1"=50'
VERTICAL: 1"=10'

INLAND PACIFIC ENGINEERING
707 West 7th • Suite 200
Spokane, WA 99204
(509) 458-6840
FAX: (509) 458-6844

RIVERWALK 8TH ADDITION
(A PLANNED UNIT DEVELOPMENT)
HODGES LANE
STA. 10+00.00 TO STA. 20+52.54 STREET

SHEET 2 OF 5
JOB NUMBER 99009

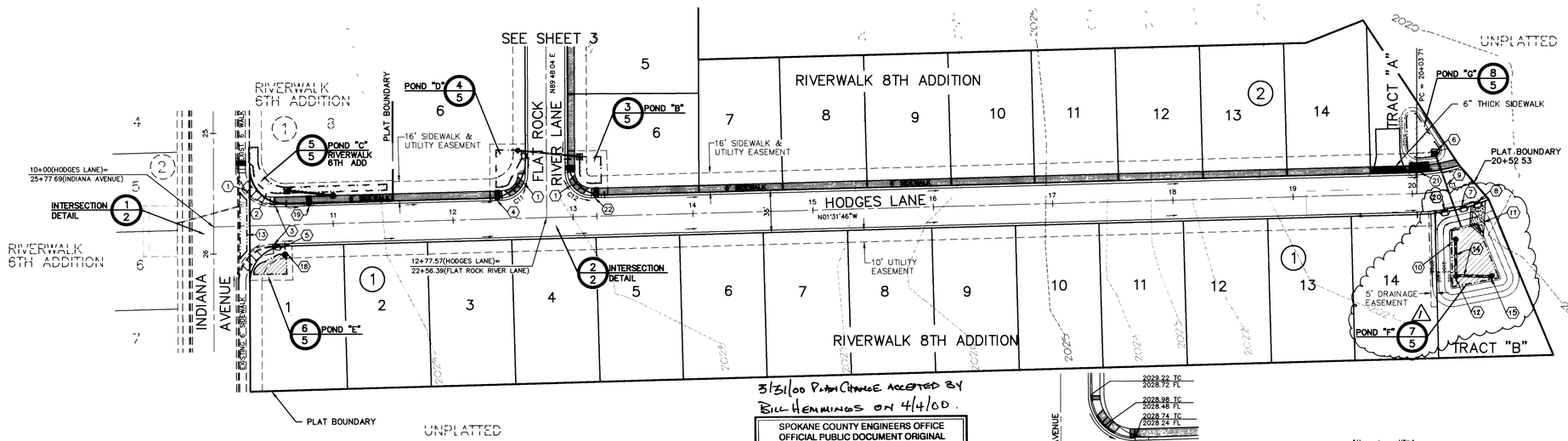
S:\SKPROJ\99009\DWG\HODGES Tue Jan 26 11:12:50 1999

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING
C1	150 00'	48 82'	24 63'	48 61'	N10 51'29"W
C11	20 00'	30 95'	19 54'	27 95'	N45 52'06"W
C12	20 00'	31 88'	20 47'	28 61'	N44 07 54"E

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456·8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG



3/31/00 PLAT CHANGE ACCEPTED BY BILL HEMMINGS ON 4/4/00.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PRIVATE ROADS
PROJECT # P-1414G
DATE ACCEPTED 2.12.99
ACCEPTANCE EXPIRES 2.12.02
PROJECT LANE MILES 0.28
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS "AS BUILTS" ARE REQUIRED PRIOR TO RELEASE OF INSPECTION BOND
APPROACH PERMIT REQUIRED! (509) 456-3600
PRIOR TO CONSTRUCTION

CONSTRUCTION NOTES

1. CONSTRUCT WHEELCHAIR RAMP PER SPOKANE COUNTY STANDARD PLAN A-5, DESIGN A
2. STREET AND STOP SIGN PER SPOKANE COUNTY AND M U T C D
3. CURB TRANSITION, SEE DETAIL 1/4
4. TYPE "2" CURB INLET PER SPOKANE COUNTY STANDARD PLAN B-9, STA 12+37 19 LT, TC EL=2026 98
5. 5' TYPE "1" CURB INLET PER SPOKANE COUNTY STANDARD PLAN B-8, STA 10+52 92, TC EL =2028 64
6. CONCRETE INLET TYPE "2" WITH TYPE "2" METAL FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-6 AND B-13, STA 20+24, 33' LT, GRATE EL =2019 22
7. 5' TYPE "1" CURB INLET PER SPOKANE COUNTY STANDARD PLAN B-8, STA 20+39 00 RT, TC EL =2019 72
8. 5' TYPE "1" CURB INLET PER SPOKANE COUNTY STANDARD PLAN B-8, STA 20+50 00 RT, TC EL =2019 62
9. 65 L F OF 18' C M P, S=0 0100, I E (W)=2016 92, I E (E)=2016 27
10. TYPE 'B' DRYWELL WITH TYPE "4" METAL FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-1a AND B-15, STA 20+28, 42 RT, GRATE EL.=2016.94.
11. 12 WIDE ACCESS ROAD 6" OF CRUSHED SURFACING TOP COURSE, 5:1 MAXIMUM SLOPE.
12. TYPE "B" DRYWELL WITH TYPE "4" METAL FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-1a AND B-15, STA.20+24.19, 71.54' RT, LID EL.=2016.94.
13. REMOVE TEMPORARY TYPE "A" CURB, TYPE III BARRICADE AND CONCRETE INLET TYPE I. PLUG 12" CMP AT NORTH END. RESTORE PAVEMENT EDGE. TEMPORARY POND H TO BE FILLED WITH NATIVE MATERIAL AND COMPACTED TO 95%.
14. 30 L.F. OF 18" C.M.P., S=0.0000, I.E.(N)=2013.63, I.E.(S)=2013.63.
15. TYPE "B" DRYWELL WITH TYPE "4" METAL FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-1a AND B-15, STA.20+43.67, 75.34 RT, LID EL.= 2016.94
16. 30 L.F. OF 18" C.M.P., S=0.0000, I.E.(N)=2013.63, I.E.(S)=2013.63.
17. TYPE "B" DRYWELL WITH TYPE "4" METAL FRAME AND SOLID LID PER SPOKANE COUNTY STANDARD PLANS B-1a AND B-15, STA 19+56, 11 5' RT, LID EL =2020 48
18. TYPE "A" DRYWELL WITH TYPE "3" METAL FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-1a AND B-15, STA 10+59, 24 5' RT, GRATE EL =2027 91
19. TYPE "2" CURB INLET PER SPOKANE COUNTY STANDARD PLAN B-9, STA 10+80 LT, TC EL=2028 33
20. 5 TYPE "1" CURB INLET PER SPOKANE COUNTY STANDARD PLAN B-8, STA 20+24 00 RT, TC EL =2019 86
21. 4 TYPE "2" CURB INLETS PER SPOKANE COUNTY STANDARD PLAN B-9, STA 20+00 00 LT, TC EL =2020 08, STA 20+04 67 LT TC EL =2020 04, STA 20+09 34 LT, TC EL =2019 99, STA 20+14 01 LT, TC EL =2019 95
22. TYPE "2" CURB INLET PER SPOKANE COUNTY STANDARD PLAN B-9, STA 13+20 RT, TC EL =2027 11

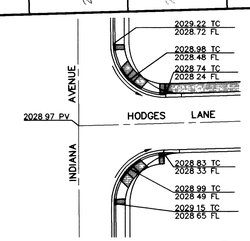
COUNTY DATUM

"X" MARKED IN FIRE HYDRANT ON NORTH SIDE OF INDIANA NORTHEAST OF INTERSECTION OF McMILLAN LN AND INDIANA AVE EL = 2029 93

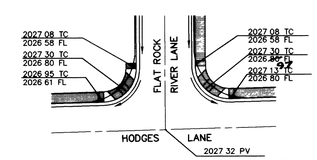
DEVELOPER'S APPROVAL

1/26/99
DATE

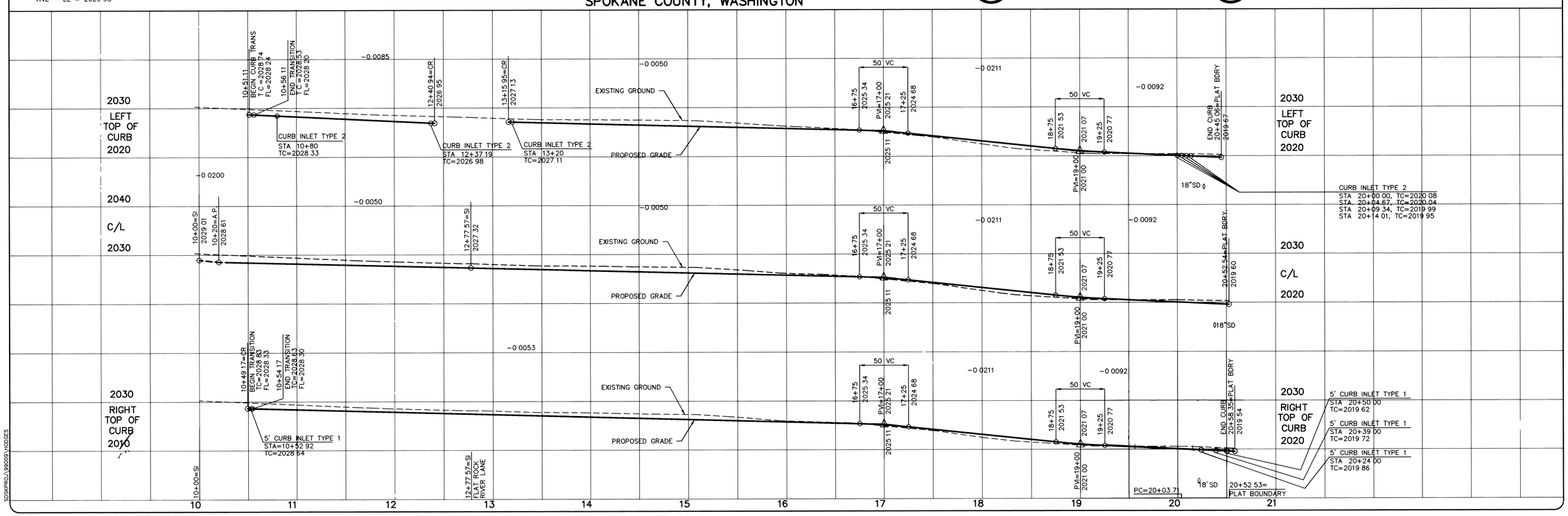
SEC. 8, T.25 N., R.45 E.,W.M.
SPOKANE COUNTY, WASHINGTON



INTERSECTION DETAIL 1/2
NOT TO SCALE



INTERSECTION DETAIL 2/2
NOT TO SCALE



NO.	DATE	BY	REVISIONS
1	03/31/00	RJL	REVISED POND "F" AND CONSTRUCTION NOTES

EXPIRES 9/24/00

DATE 1/26/99
DRAWN BY TTB,RLM2,MLH
DESIGNED BY SKM
CHECKED BY TRW

SCALE.
HORIZONTAL 1"=50'
VERTICAL 1"=10'

INLAND PACIFIC ENGINEERING
707 West 7th - Suite 200 Spokane, WA 99204
(509) 458-6840 FAX (509) 458-6844

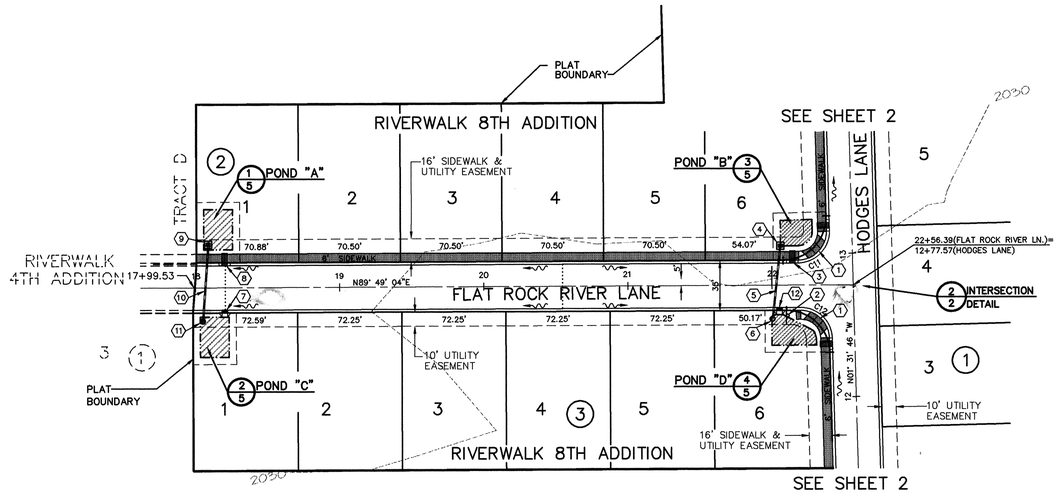
RIVERWALK 8TH ADDITION
(A PLANNED UNIT DEVELOPMENT)
HODGES LANE
STA. 10+00.00 TO STA. 20+52.54 STREET

SHEET 2 OF 5
JOB NUMBER 99009

1414-G

CURVE TABLE

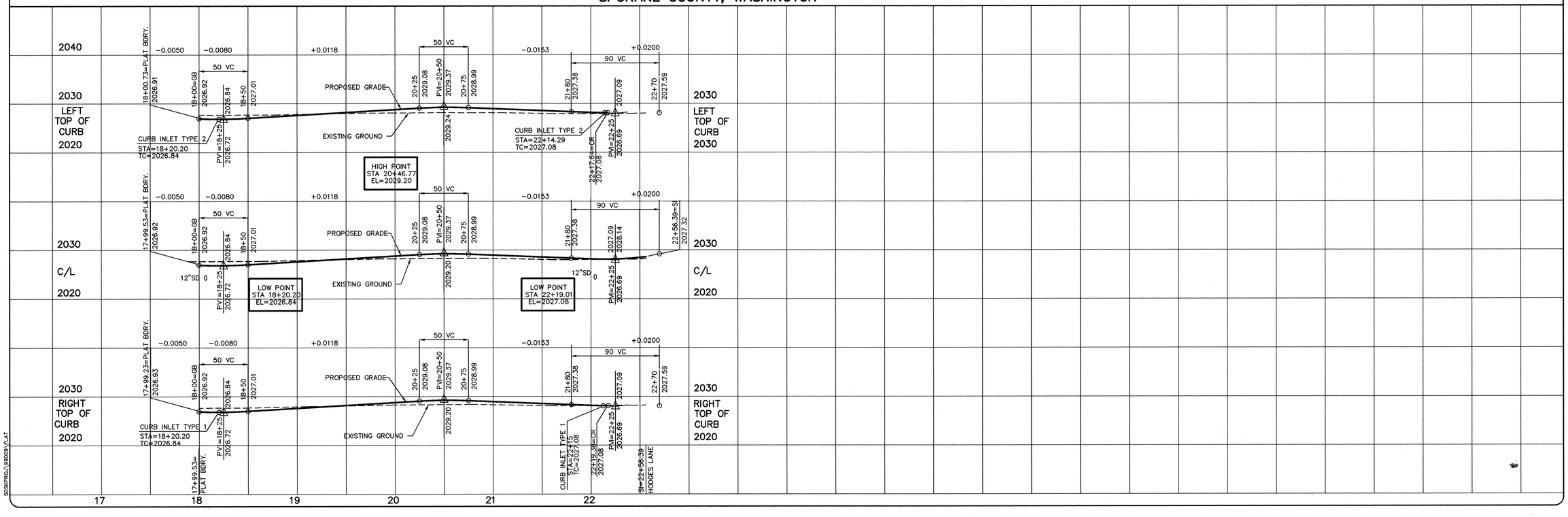
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING
C11	20.00'	31.88'	20.47'	28.61'	N44°08'04"E
C12	20.00'	30.95'	19.54'	27.95'	N45°51'56"W



COUNTY DATUM

"X" MARKED IN FIRE HYDRANT ON NORTH SIDE OF INDIANA, NORTHEAST OF INTER-SECTION OF McMILLAN LN. AND INDIANA AVE. EL = 2029.93

SEC. 8, T.25 N., R.45 E.,W.M.
SPOKANE COUNTY, WASHINGTON



UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456·8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

CONSTRUCTION NOTES

1. CONSTRUCT WHEELCHAIR RAMP PER SPOKANE COUNTY STANDARD PLAN A-5, DESIGN "A".
2. STREET SIGN PER SPOKANE COUNTY AND M.U.T.C.D.
3. INSTALL TYPE "2" CURB INLET PER SPOKANE COUNTY STANDARD PLAN B-9, STA. 22+14.29 LT., TC EL.=2028.10
4. CONCRETE INLET TYPE "1" WITH TYPE "2" METAL FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-5 AND B-13, STA. 22+05.54, 27.50' LT., GRATE EL.=2026.35.
5. 50 L.F. OF 12" C.M.P., S=0.0300, I.E.(N)=2023.35, I.E.(S)=2021.85.
6. TYPE "B" DRYWELL WITH TYPE "3" METAL FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-1a AND B-15, STA. 22+00.00, 23.50' RT., GRATE EL.=2026.25.
7. TYPE "1" CURB INLET PER SPOKANE COUNTY STANDARD PLAN B-8, STA. 18+20.20 RT., TC EL.=2026.84.
8. TYPE "2" CURB INLET PER SPOKANE COUNTY STANDARD PLAN B-9, STA. 18+20.20 LT., TC EL.=2026.84.
9. CONCRETE INLET TYPE "1" WITH TYPE "2" METAL FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-5 AND B-13, STA. 18+09.00, 30' LT., GRATE EL.=2026.11.
10. 54 L.F. OF 12" C.M.P., S=0.0185, I.E.(N)=2023.11, I.E.(S)=2022.11.
11. TYPE "B" DRYWELL WITH TYPE "3" METAL FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-1a AND B-15, STA. 18+05.00, 23.50' RT., GRATE EL.=2026.11.
12. TYPE "1" CURB INLET PER SPOKANE COUNTY STANDARD PLAN B-8, STA. 18+20.20 RT., TC EL.=2027.08.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PRIVATE ROADS
PROJECT #: P-14146
DATE ACCEPTED: 2.12.99
ACCEPTANCE EXPIRES: 2.12.02
PROJECT LANE MILES: 0.28
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO RELEASE OF INSPECTION BOND.
APPROACH PERMIT REQUIRED! (509) 456-3600 PRIOR TO CONSTRUCTION

DEVELOPER'S APPROVAL

1/26/99
DATE

NO.	DATE	BY	REVISIONS

EXPIRES 9/24/00

DATE: 1/25/99
DRAWN BY: M.L.M.L.H.
DESIGNED BY: SKM
CHECKED BY: TRW

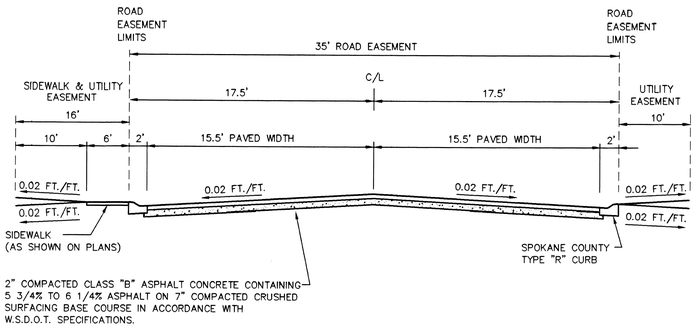
SCALE:
HORIZONTAL: 1"=50'
VERTICAL: 1"=10'

INLAND PACIFIC ENGINEERING
707 West 7th • Suite 200
Spokane, WA 99204
(509) 458-6840
FAX: (509) 458-6844

RIVERWALK 8TH ADDITION
(A PLANNED UNIT DEVELOPMENT)
FLAT ROCK RIVER LANE
STA. 17+99.53 TO STA. 22+56.39 STREET

SHEET 3 OF 5
JOB NUMBER 99009

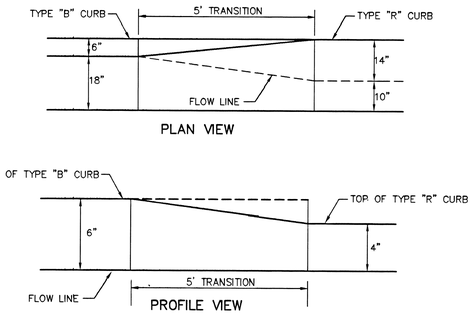
SDSKPROJ\99009\FLAT
u:\acskpr01\99009\dwg\FLAT Tue Jan 26 17:36:50 1999



TYPICAL CROSS SECTION

NOT TO SCALE

HODGES LANE
FLAT ROCK RIVER LANE



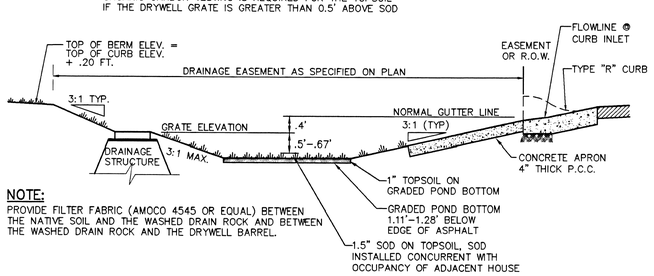
TYPE "B" CURB TO TYPE "R" CURB

CURB TRANSITION DETAIL

NOT TO SCALE

1/4

NOTE:
ORGANIC CARBON TESTING IS REQUIRED FOR THE TOPSOIL IF THE DRYWELL GRATE IS GREATER THAN 0.5' ABOVE SOD

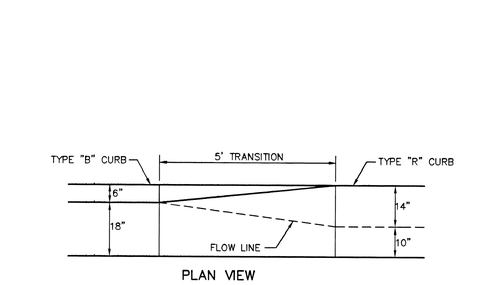


NOTE:
PROVIDE FILTER FABRIC (AMOCO 4545 OR EQUAL) BETWEEN THE NATIVE SOIL AND THE WASHED DRAIN ROCK AND BETWEEN THE WASHED DRAIN ROCK AND THE DRYWELL BARREL.

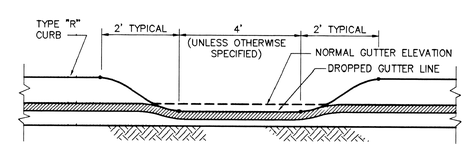
SECTIONAL VIEW

TYPICAL '208' POND WITH DRAINAGE STRUCTURE

NOT TO SCALE



SECTION A/-

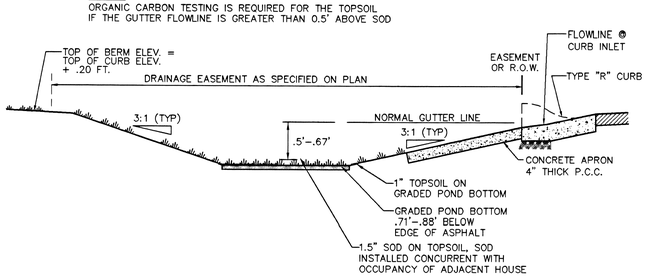


SECTION

TYPE "R" CURB INLET

NOT TO SCALE

NOTE:
ORGANIC CARBON TESTING IS REQUIRED FOR THE TOPSOIL IF THE GUTTER FLOWLINE IS GREATER THAN 0.5' ABOVE SOD



SECTIONAL VIEW

TYPICAL '208' POND WITHOUT DRAINAGE STRUCTURE

NOT TO SCALE

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PRIVATE ROADS
PROJECT #: P-14146
DATE ACCEPTED: 3.12.99
ACCEPTANCE EXPIRES: 2.13.02
PROJECT LANE MILES: 0.32R
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO RELEASE OF INSPECTION BOND.
APPROACH PERMIT REQUIRED! (509) 456-3600
PRIOR TO CONSTRUCTION

DEVELOPER'S APPROVAL

1/26/99
DATE

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG

NO.	DATE	BY	REVISIONS

EXPIRES 9/24/00

DATE: 1/12/99
DRAWN BY: MJI,RLM2,MLH
DESIGNED BY: SKM TRW
CHECKED BY: TRW

SCALE:
HORIZONTAL: AS NOTED
VERTICAL: N/A

INLAND PACIFIC ENGINEERING
707 West 7th • Suite 200 Spokane, WA 99204
(509) 458-6840 FAX: (509) 458-6844

RIVERWALK 8TH ADDITION
(A PLANNED UNIT DEVELOPMENT)
STREET DETAILS

SHEET 4 OF 5
JOB NUMBER 99009

S:\SKMPROJ\96087\DETAILS

STORM DRAINAGE NOTES

1. IN SIOTUATIONS WHERE AVERAGE SWALE DEPTHS OF 8" ARE PROPOSED, SOIL TESTS SHALL BE REQUIRED TO INSURE THAT THE SOIL IS CAPABLE OF ASSIMILATING THE CONTAMINATS IN FUNOFF AND WILL PERCOLATE AT AN ACCEPTABLE RATE.

2. SOIL TESTS ARE REQUIRED IN POND F. WHERE SOIL TESTS ARE REQUIRED, ONE (1) TEST EACH FOR CATION EXCHANGE CAPACITY AND SOIL ORGANIC MATTER SHALL BE PERFORMED FOR EACH GRASSED PERCOLATION AREA 1500 S.F. OR LESS. AN ADDITIONAL SET OF TESTS MAY BE REQUIRED FOR EACH ADDITIONAL 2,000 S.F. OR FRACTION THEREOF. TESTS SHALL BE PERFORMED ON A WELL-MIXED COMPOSITE SAMPLE CONSISTING OF THE TOP SIX (6) INCHES OF SOIL FROM AT LEAST FOUR (4) CORES UNIFORMLY DISTRIBUTED OVER THE PERCOLATION AREA. IF THE AVERAGE CATION EXCHANGE CAPACITY IS 15 MILLEQUIVALENTS/100 g. OR MORE OR THE SOIL IS 2% ORGANIC CARBON OR MORE, THE SOIL WILL BE CONSIDERED SUITABLE FOR STORMWATER TREATMENT.

8. THE FLOOR OF A GRASSED PERCOLATION AREA (GPA) SWALE INCLUDES THE LEVEL PORTION OF THE SWALE, AND THE SIDESLOPES OF THE SWALE UP TO THE GPA OVERFLOW ELEVATION OR TOP OF DRYWELL. THE SOIL LOCATED IN THE FLOOR OF THE GPA SWALE SHALL BE A MEDIUM TO WELL-DRAINING MATERIAL, WITH A MINIMUM INFILTRATION RATE OF 0.5 INCHES PER HOUR.

POND "G" (8/5)

SCALE: 1"=20'

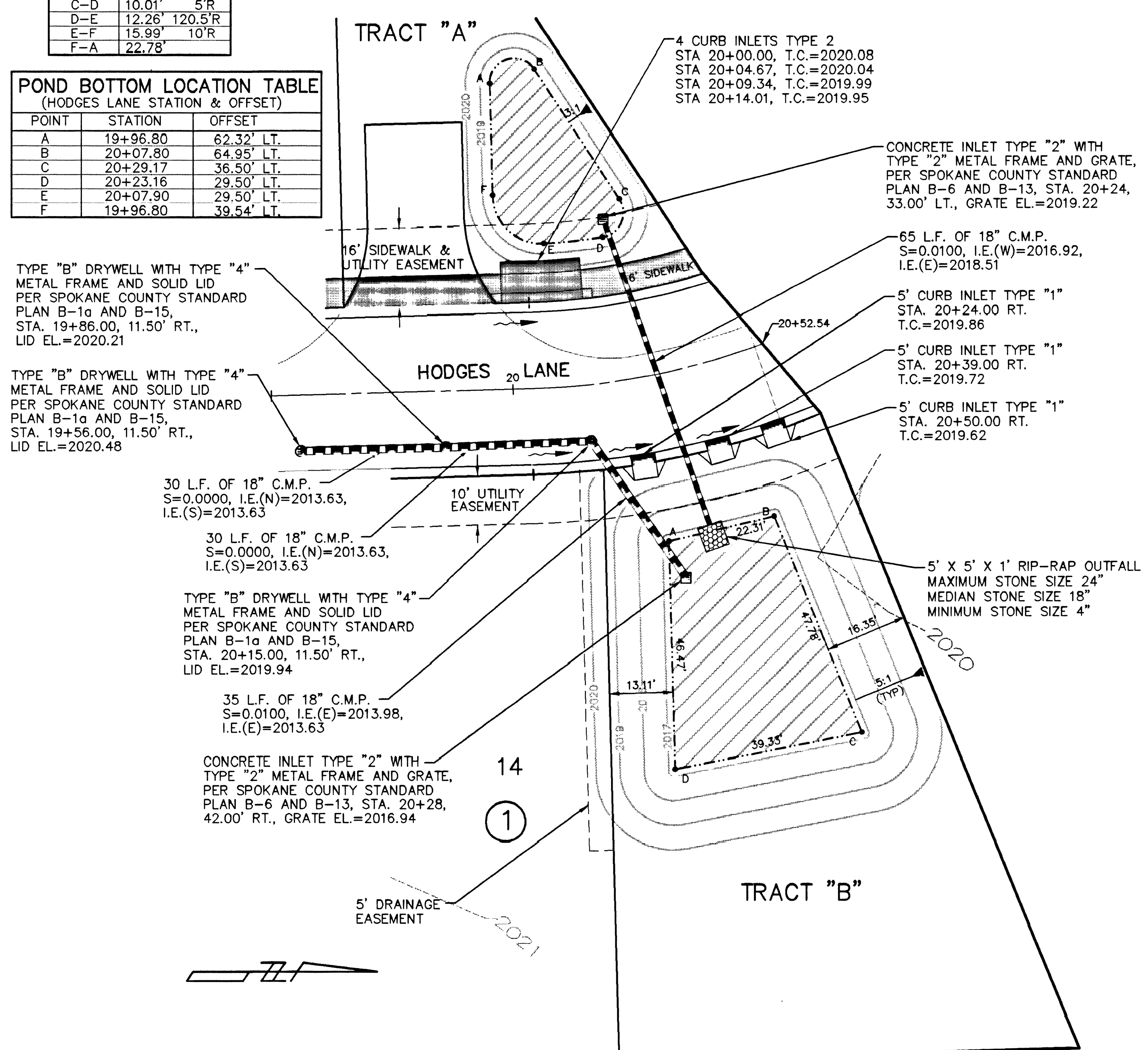
POND BOTTOM ELEV = 2018.51
POND BOTTOM AREA = 682 S.F.
PERIMETER = 106 L.F.
TOP OF BERM = 2020.15
REQUIRED '208' VOLUME = 559 C.F.
PROVIDED '208' VOLUME = 341 C.F.

POND BOTTOM DIMENSION TABLE

POINTS	LENGTH
A–B	12.91' 5'R
B–C	31.70'
C–D	10.01' 5'R
D–E	12.26' 120.5'R
E–F	15.99' 10'R
F–A	22.78'

POND BOTTOM LOCATION TABLE (HODGES LANE STATION & OFFSET)

POINT	STATION	OFFSET
A	19+96.80	62.32' LT.
B	20+07.80	64.95' LT.
C	20+29.17	36.50' LT.
D	20+23.16	29.50' LT.
E	20+07.90	29.50' LT.
F	19+96.80	39.54' LT.



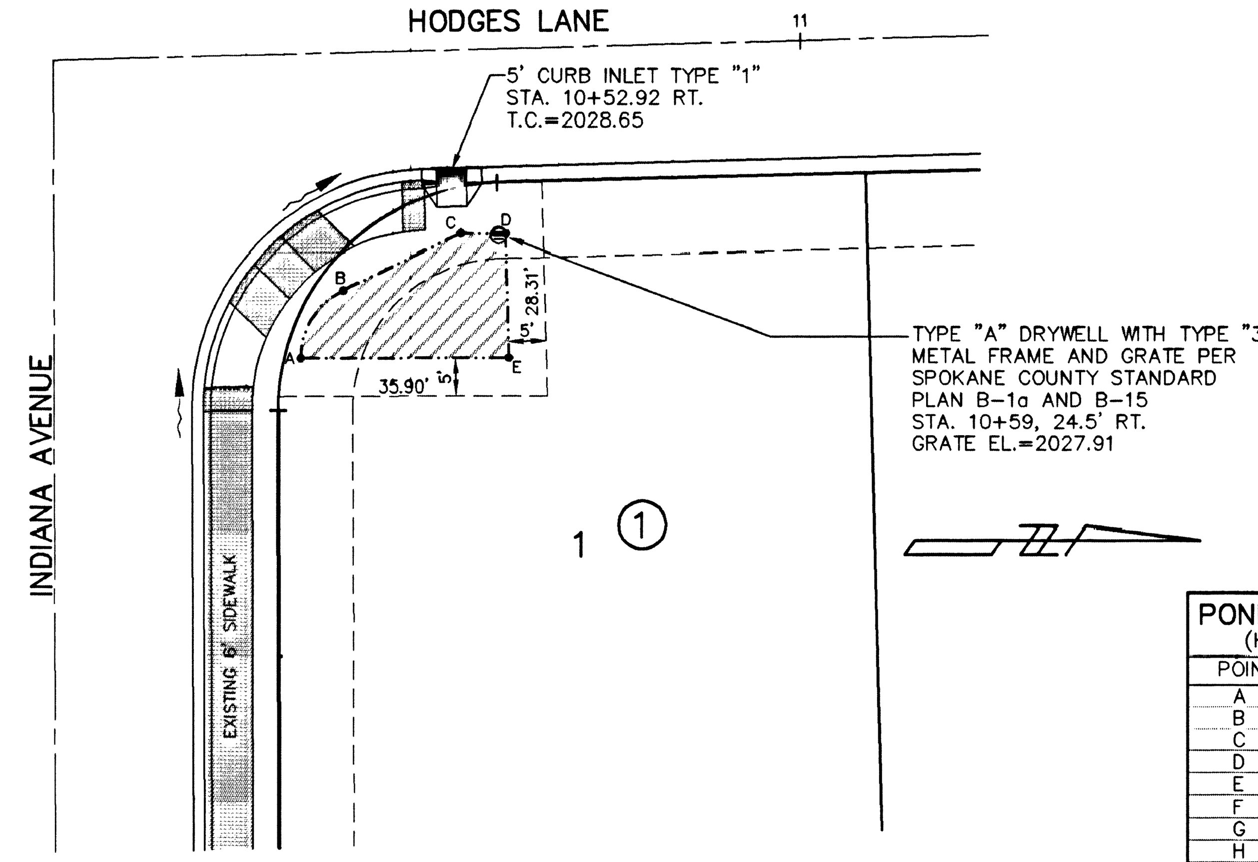
POND BOTTOM LOCATION TABLE (HODGES LANE STATION & OFFSET)

POINT	STATION	OFFSET
A	20+26.32	33.91' RT.
B	20+44.53	34.04' RT.
C	20+47.37	81.66' RT.
D	20+21.80	19.96' RT.

POND "F" (7/5)

SCALE: 1"=20'

POND BOTTOM ELEV. = 2016.27
POND BOTTOM AREA = 1,428 S.F.
PERIMETER = 156 L.F.
TOP OF BERM = 2019.82
REQUIRED '208' VOLUME = 734 C.F.
PROVIDED '208' VOLUME = 952 C.F.



POND BOTTOM DIMENSION TABLE

POINTS	LENGTH
A–B	11.28' 10'R
B–C	17.40'
C–D	6.00'
D–E	16.48'
E–A	27.82'

POND BOTTOM LOCATION TABLE (HODGES LANE STATION & OFFSET)

POINT	STATION	OFFSET
A	10+32.10	40.05' RT.
B	10+38.02	31.15' RT.
C	10+53.91	24.05' RT.
D	10+59.91	24.21' RT.
E	10+59.91	40.70' RT.

POND "E" (6/5)

SCALE: 1"=20'

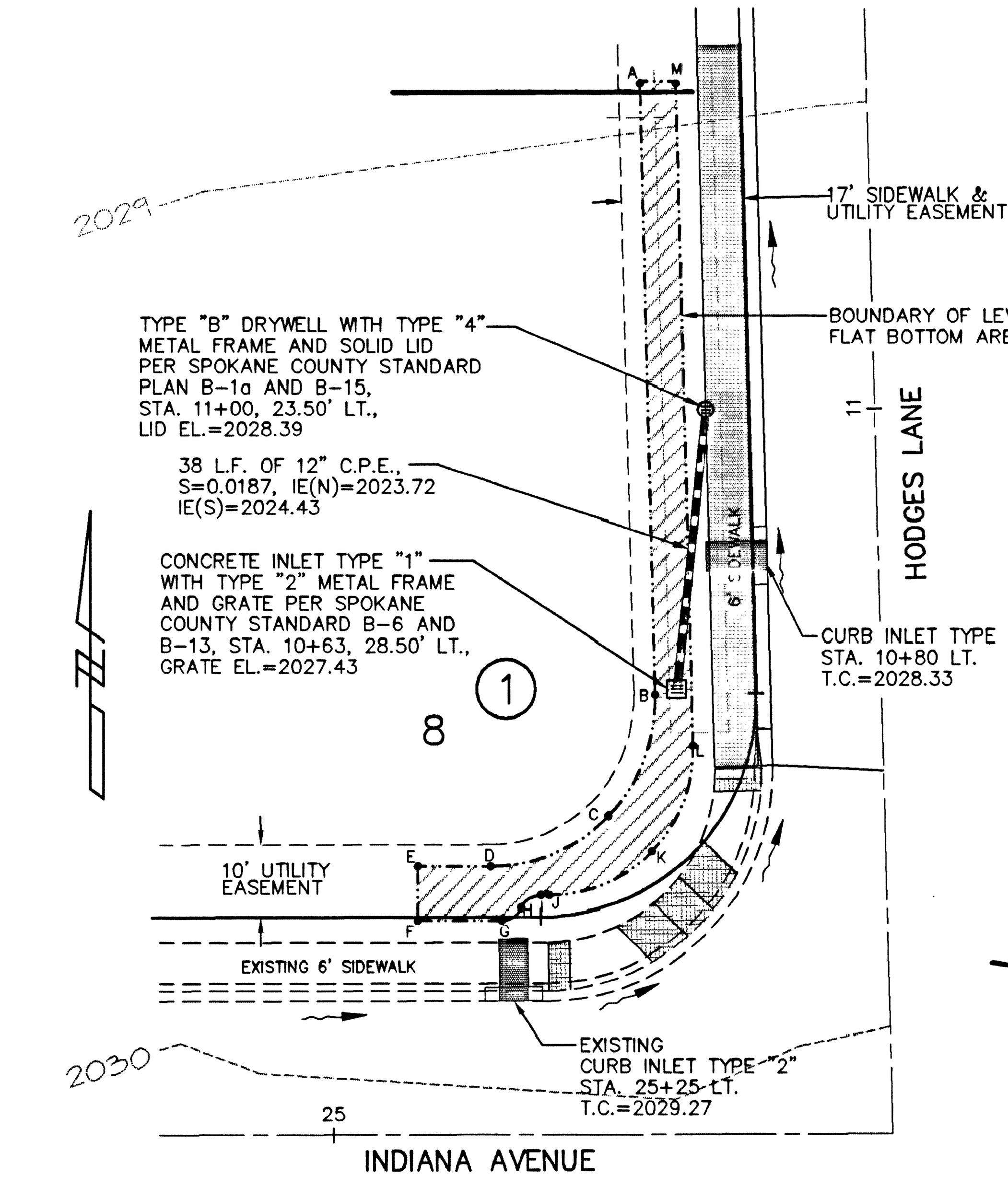
POND BOTTOM ELEV. = 2027.21
POND BOTTOM AREA = 340 S.F.
PERIMETER = 79 L.F.
TOP OF BERM = 2028.85
REQUIRED '208' VOLUME = 136 C.F.
PROVIDED '208' VOLUME = 170 C.F.

POND BOTTOM DIMENSION TABLE

POINT	LENGTH
A–B	84.43'
B–C	18.33' 23'R
C–D	18.33' 23'R
D–E	10.10'
E–F	7.50'
F–G	11.68'
G–H	3.42' 3'R
H–I	3.42' 3'R
I–J	1.16'
J–K	15.94' 20'R
K–L	15.94' 20'R
L–M	91.50'
M–A	5.00'

POND BOTTOM LOCATION TABLE (HODGES LANE STATION & OFFSET)

POINT	STATION	OFFSET
A	11+45.71	31.50' LT.
B	10+61.28	31.50' LT.
C	10+44.83	38.43' LT.
D	10+38.29	55.03' LT.
E	10+38.52	65.13' LT.
F	10+31.03	65.33' LT.
G	10+30.75	53.66' LT.
H	10+32.44	50.89' LT.
I	10+34.13	48.13' LT.
J	10+34.10	46.96' LT.
K	10+39.79	32.52' LT.
L	10+54.09	26.50' LT.
M	11+45.59	26.50' LT.



EXISTING POND "C" (RIVERWALK 6TH. ADDITION) (5/5)

SCALE: 1"=20'

POND BOTTOM ELEV = 2026.93
POND BOTTOM AREA = 774.23 S.F.
PERIMETER = 286.76 L.F.
TOP OF BERM = 2028.90
PROVIDED VOLUME = 387 C.F.

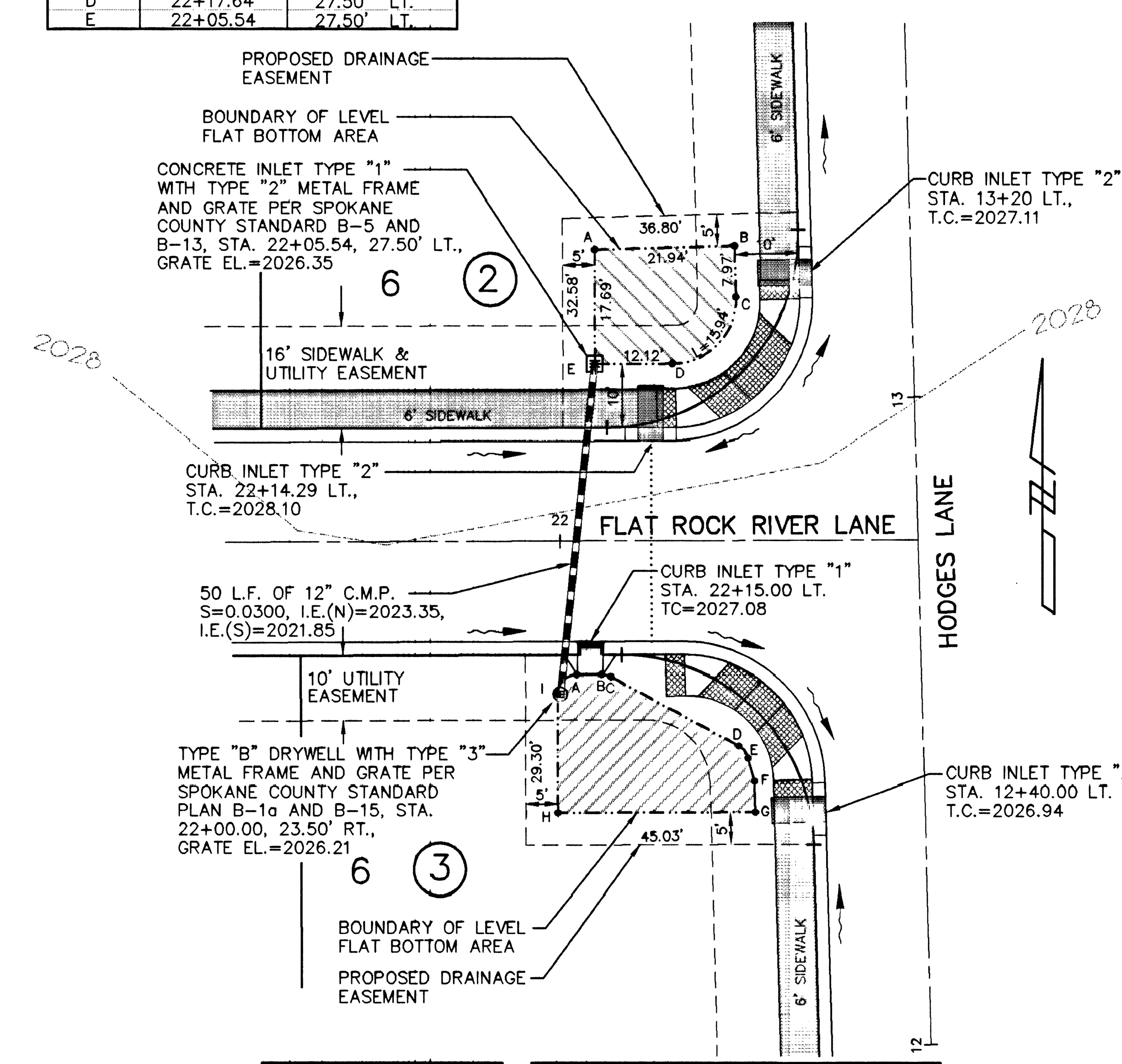
POND "B" (3/5)

SCALE: 1"=20'

POND BOTTOM ELEV = 2025.67
POND BOTTOM AREA = 375 S.F.
PERIMETER = 76 L.F.
TOP OF BERM = 2027.13
REQUIRED '208' VOLUME = 156 C.F.
PROVIDED '208' VOLUME = 187.5 C.F.

POND BOTTOM LOCATION TABLE (FLAT ROCK RIVER LANE STATION & OFFSET)

POINT	STATION	OFFSET
A	22+05.54	45.19' LT.
B	22+27.47	45.70' LT.
C	22+27.63	37.73' LT
D	22+17.64	27.50' LT.
E	22+05.54	27.50' LT.



POND BOTTOM DIMENSION TABLE

POINTS	LENGTH
A–B	3.88'
B–C	1.47' 3'R
C–D	22.73'
D–E	2.44' 3'R
E–F	3.75'
F–G	4.75'
G–H	30.91'
H–I	18.30'
I–A	4.71' 3'R

POND BOTTOM LOCATION TABLE (FLAT ROCK RIVER LANE STATION & OFFSET)

POINT	STATION	OFFSET
A	22+02.57	20.50' RT.
B	22+06.45	20.50' RT.
C	22+07.86	20.85' RT.
D	22+27.90	31.58' RT.
E	22+29.38	33.43' RT.
F	22+30.37	37.05' RT.
G	22+30.48	41.80' RT
H	21+99.57	41.80' RT
I	21+99.57	23.50' RT.

POND "D" (4/5)

SCALE: 1"=20'

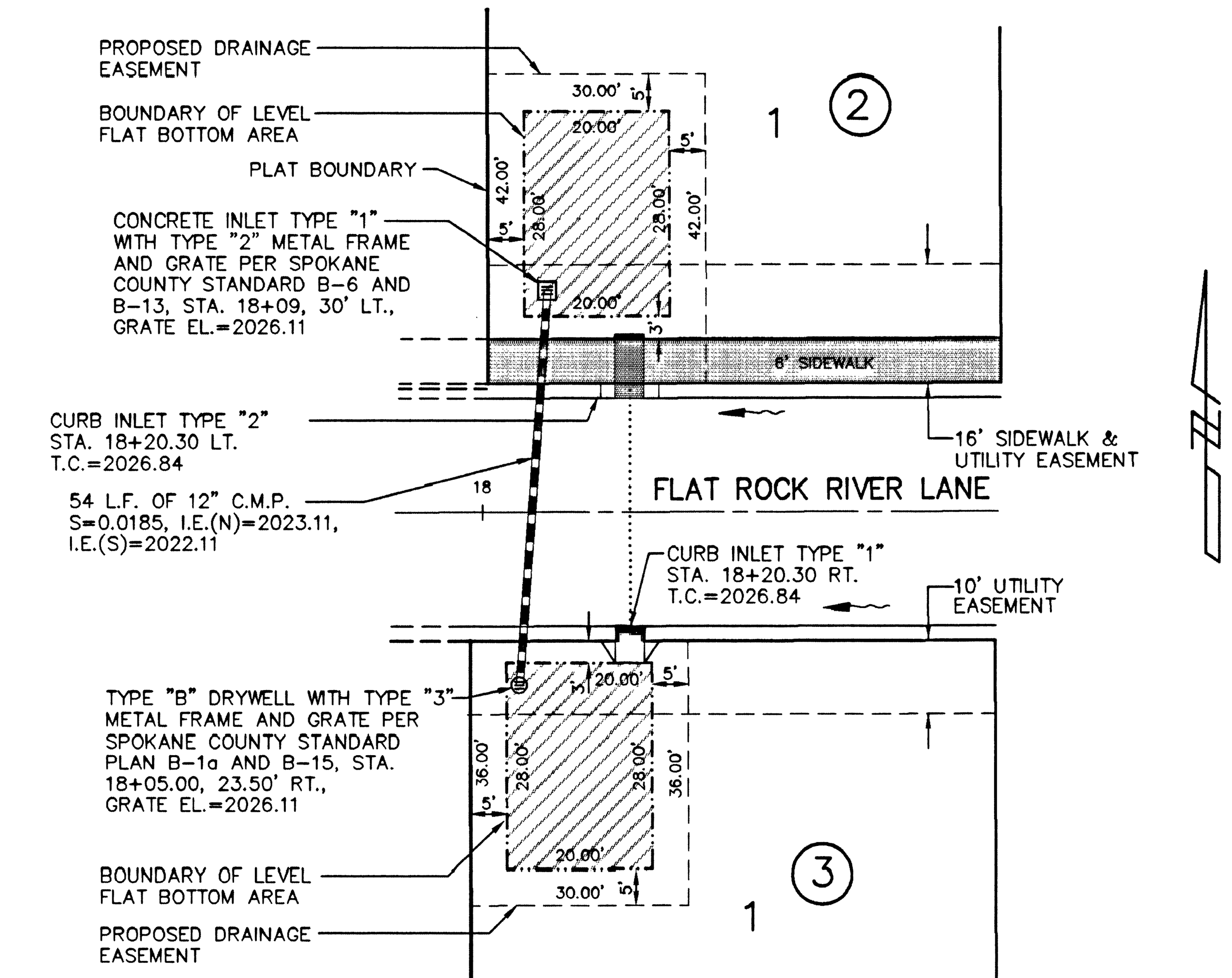
POND BOTTOM ELEV = 2025.50
POND BOTTOM AREA = 508 S.F.
PERIMETER = 93 L.F.
TOP OF BERM = 2027.14
REQUIRED '208' VOLUME = 235 C.F.
PROVIDED '208' VOLUME = 254 C.F.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PRIVATE ROADS
PROJECT #: P-1414G
DATE ACCEPTED: 2.12.99
ACCEPTANCE EXPIRES: 2.12.02
PROJECT LANE MILES: 0.28
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO RELEASE OF INSPECTION BOND.
APPROACH PERMIT REQUIRED! (509) 456-3600 PRIOR TO CONSTRUCTION

POND "A" (1/5)

SCALE: 1"=20'

POND BOTTOM ELEV. = 2025.40
POND BOTTOM AREA = 560 S.F.
PERIMETER = 96 L.F.
TOP OF BERM = 2027.04
REQUIRED '208' VOLUME = 186 C.F.
PROVIDED '208' VOLUME = 280 C.F.



POND "C" (2/5)

1"=20'

POND BOTTOM ELEV. = 2025.40
POND BOTTOM AREA = 560 S.F.
PERIMETER = 96 L.F.
TOP OF BERM = 2027.04
REQUIRED '208' VOLUME = 187 C.F.
PROVIDED '208' VOLUME = 280 C.F.

[signature]
DEVELOPER'S APPROVAL

1/26/99
DATE

NO.	DATE	BY	REVISIONS

TODD R. WHIPPLE, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER 25462 — EXPIRES 9/24/00

DATE: 1/12/99
DRAWN BY: MJI,RLM2,MLH
DESIGNED BY: SKM TRW
CHECKED BY: TRW

SCALE: HORIZONTAL: 1"=20' VERTICAL: N/A

IPE INLAND PACIFIC ENGINEERING
707 West 7th • Suite 200
Spokane, WA 99204
(509) 458-6840
FAX: (509) 458-6844

STREET

RIVERWALK 8TH ADDITION
(A PLANNED UNIT DEVELOPMENT)
POND DETAILS

SHEET 5 OF 5
JOB NUMBER 99009

SDSKPROJ\99009\POND

J:\sdskproj\99009\dwg\pond Tue Jan 26 17:38:01 1999

STORM DRAINAGE NOTES

1. IN SIOTUATIONS WHERE AVERAGE SWALE DEPTHS OF 8" ARE PROPOSED, SOIL TESTS SHALL BE REQUIRED TO INSURE THAT THE SOIL IS CAPABLE OF ASSIMILATING THE CONTAMINATS IN FUNOFF AND WILL PERCOLATE AT AN ACCEPTABLE RATE.

2. SOIL TESTS ARE REQUIRED IN POND F. WHERE SOIL TESTS ARE REQUIRED, ONE (1) TEST EACH FOR CATION EXCHANGE CAPACITY AND SOIL ORGANIC MATTER SHALL BE PERFORMED FOR EACH GRASSED PERCOLATION AREA 1500 S.F. OR LESS. AN ADDITIONAL SET OF TESTS MAY BE REQUIRED FOR EACH ADDITIONAL 2,000 S.F. OR FRACTION THEREOF. TESTS SHALL BE PERFORMED ON A WELL-MIXED COMPOSITE SAMPLE CONSISTING OF THE TOP SIX (6) INCHES OF SOIL FROM AT LEAST FOUR (4) CORES UNIFORMLY DISTRIBUTED OVER THE PERCOLATION AREA. IF THE AVERAGE CATION EXCHANGE CAPACITY IS 15 MILLEQUIVALENTS/100 g. OR MORE OR THE SOIL IS 2% ORGANIC CARBON OR MORE, THE SOIL WILL BE CONSIDERED SUITABLE FOR STORMWATER TREATMENT.

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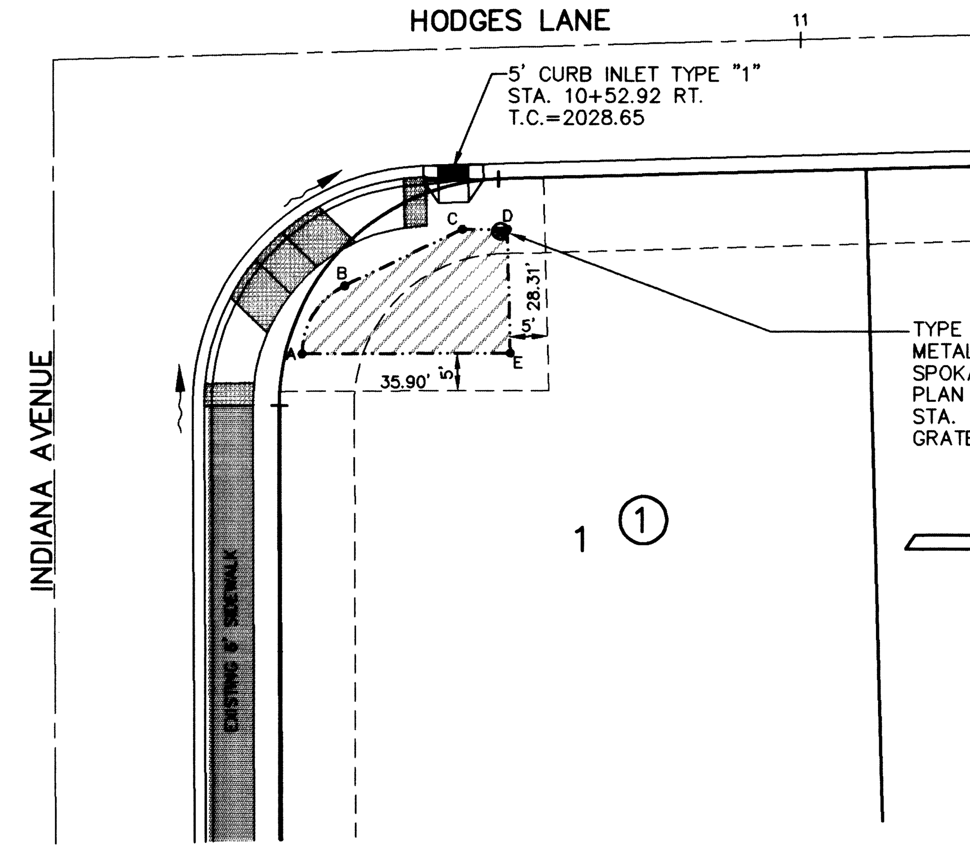

POND BOTTOM DIMENSION TABLE

POINTS	LENGTH
A–B	11.28' 10'R
B–C	17.40'
C–D	6.00'
D–E	16.48'
E–A	27.82'

POND BOTTOM LOCATION TABLE (HODGES LANE STATION & OFFSET)

POINT	STATION	OFFSET
A	10+32.10	40.05' RT.
B	10+38.02	31.15' RT.
C	10+53.91	24.05' RT.
D	10+59.91	24.21' RT.
E	10+59.91	40.70' RT.

POND "E" (6/5)

SCALE: 1"=20'

POND BOTTOM ELEV. = 2027.21
POND BOTTOM AREA = 340 S.F.
PERIMETER = 79 L.F.
TOP OF BERM = 2028.85
REQUIRED '208' VOLUME = 136 C.F.
PROVIDED '208' VOLUME = 170 C.F.

POND BOTTOM DIMENSION TABLE

POINT	LENGTH
A–B	84.43'
B–C	18.33' 23'R
C–D	18.33' 23'R
D–E	10.10'
E–F	7.50'
F–G	11.68'
G–H	3.42' 3'R
H–I	3.42' 3'R
I–J	1.16'
J–K	15.94' 20'R
K–L	15.94' 20'R
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M–A	5.00'

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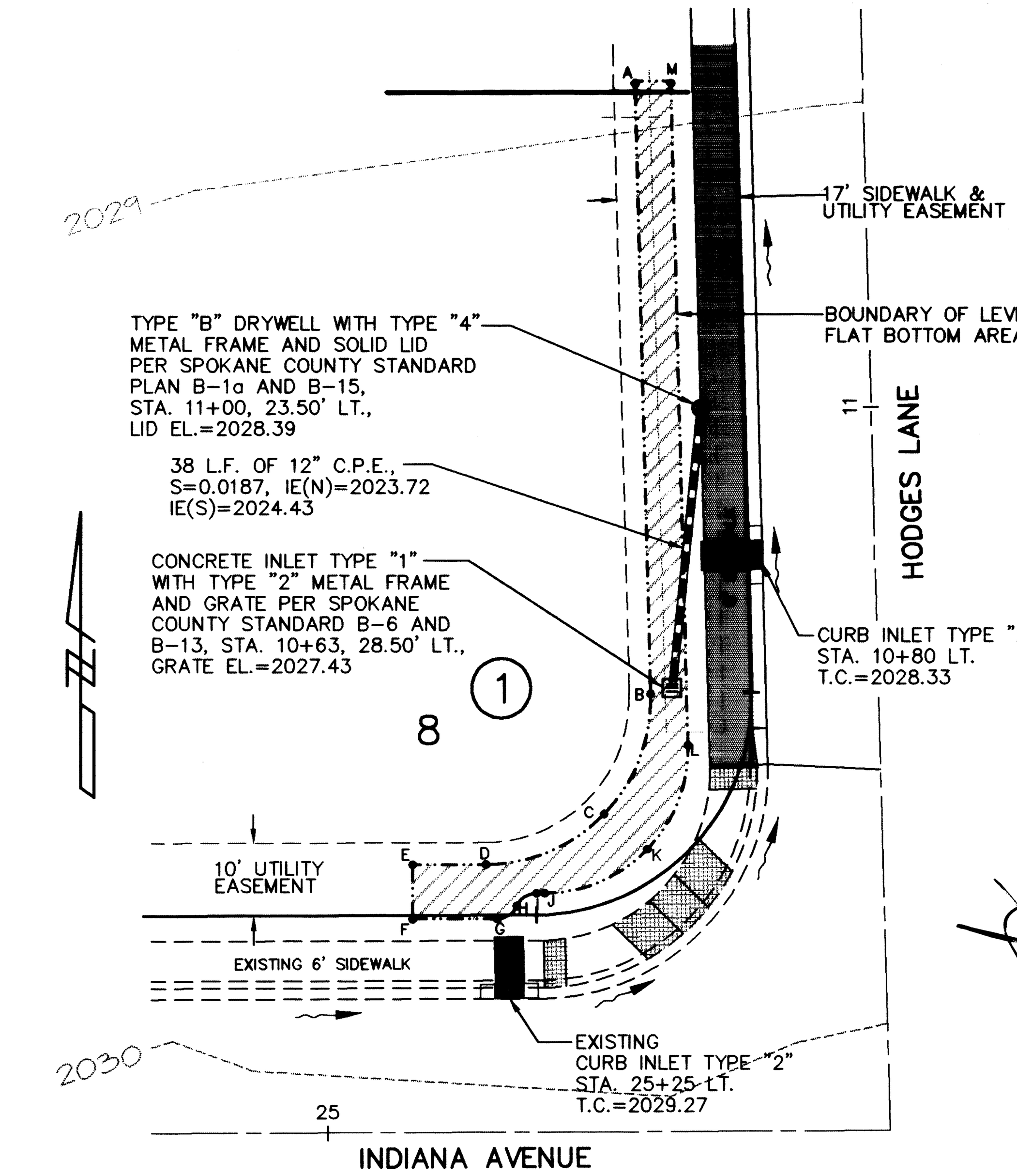
D	10+38.29	55.03' LT.
E	10+38.52	65.13' LT.
F	10+31.03	65.33' LT.
G	10+30.75	53.66' LT.
H	10+32.44	50.89' LT.
I	10+34.13	48.13' LT.
J	10+34.10	46.96' LT.
K	10+39.79	32.52' LT.
L	10+54.09	26.50' LT.
M	11+45.59	26.50' LT.



EXISTING POND "C" (RIVERWALK 6TH. ADDITION) (5/5)

SCALE: 1"=20'

POND BOTTOM ELEV = 2026.93
POND BOTTOM AREA = 774.23 S.F.
PERIMETER = 286.76 L.F.
TOP OF BERM = 2028.90
PROVIDED VOLUME = 387 C.F.

3/31/00 PLAN CHANGE ACCEPTED BY BILL HEMMINGS on 4/4/00.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PRIVATE ROADS
PROJECT #: P-1414G
DATE ACCEPTED: 2.12.99
ACCEPTANCE EXPIRES: 2.12.02
PROJECT LANE MILES: 0.28
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO RELEASE OF INSPECTION BOND.
APPROACH PERMIT REQUIRED! (509) 456-3600 PRIOR TO CONSTRUCTION

POND "G" (8/5)

SCALE: 1"=20'

POND BOTTOM ELEV = 2018.51
POND BOTTOM AREA = 682 S.F.
PERIMETER = 106 L.F.
TOP OF BERM = 2020.15
REQUIRED '208' VOLUME = 559 C.F.
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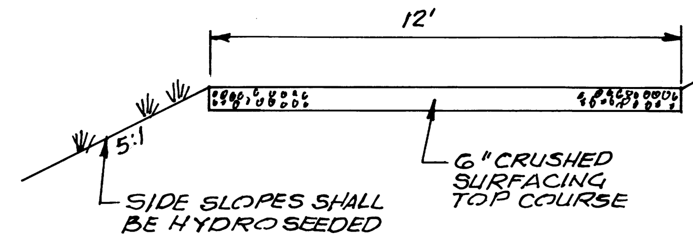

GRAVEL ACCESS ROAD (C/–)

NOT TO SCALE

POND BOTTOM LOCATION TABLE (HODGES LANE STATION & OFFSET)

POINT	STATION	OFFSET
A	19+96.80	62.32' LT.
B	20+07.80	64.95' LT.
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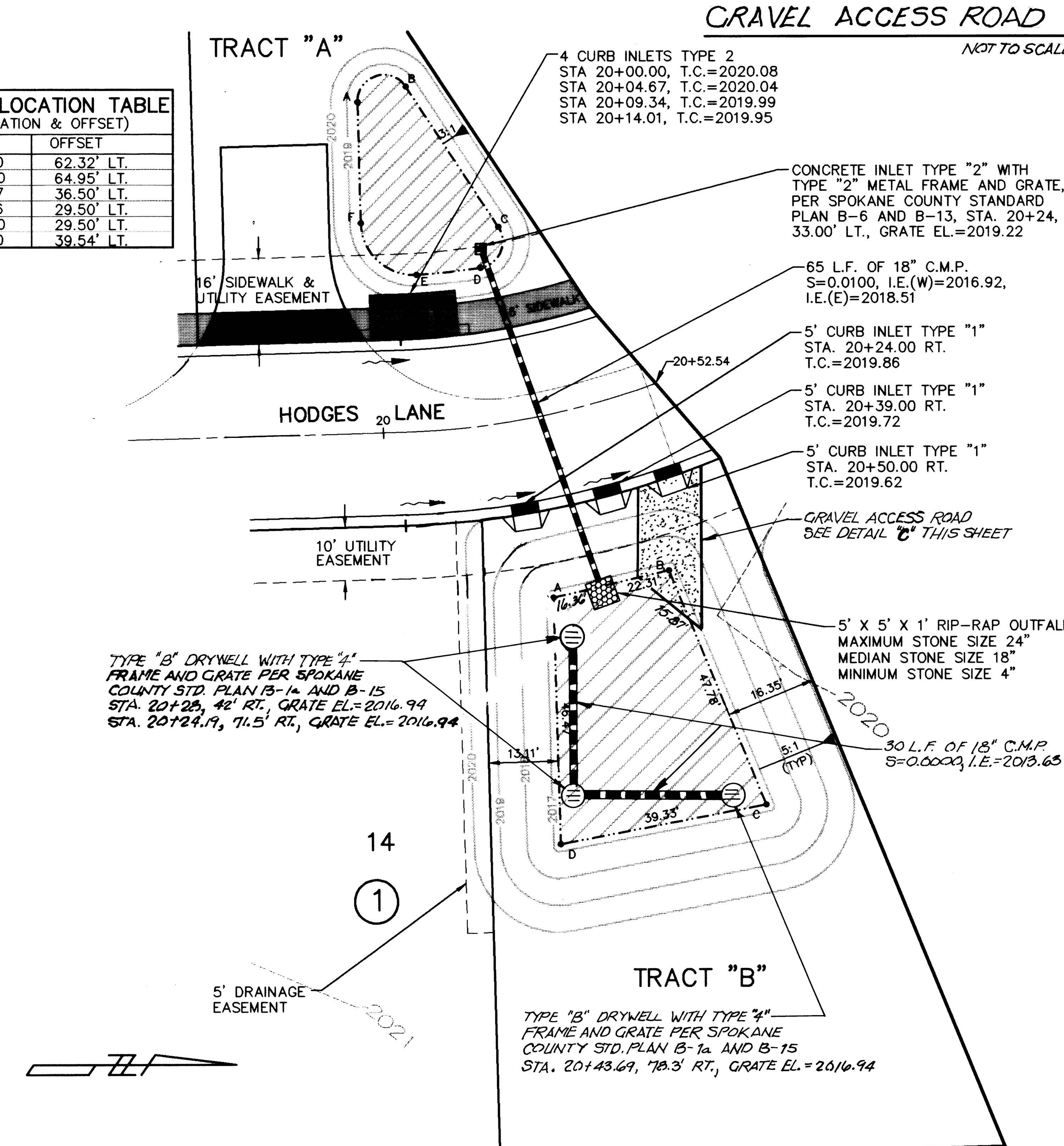
D	20+23.16	29.50' LT.
E	20+07.90	29.50' LT.
F	19+96.80	39.54' LT.



POND BOTTOM LOCATION TABLE (HODGES LANE STATION & OFFSET)

POINT	STATION	OFFSET
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B	20+44.53	34.04' RT.
C	20+47.37	81.66' RT.
D	20+21.80	19.96' RT.

POND "F" (7/5)

SCALE: 1"=20'

POND BOTTOM ELEV. = 2016.27
POND BOTTOM AREA = 1,398 S.F.
PERIMETER = 156 L.F.
TOP OF BERM = 2019.82
REQUIRED '208' VOLUME = 734.0 C.F.
PROVIDED '208' VOLUME = 936.7 C.F.

POND "B" (3/5)

SCALE: 1"=20'

POND BOTTOM ELEV = 2025.67
POND BOTTOM AREA = 375 S.F.
PERIMETER = 76 L.F.
TOP OF BERM = 2027.13
REQUIRED '208' VOLUME = 156 C.F.
PROVIDED '208' VOLUME = 187.5 C.F.

POND BOTTOM LOCATION TABLE (FLAT ROCK RIVER LANE STATION & OFFSET)

POINT	STATION	OFFSET
A	22+05.54	45.19' LT.
B	22+27.47	45.70' LT.
C	22+27.63	37.73' LT
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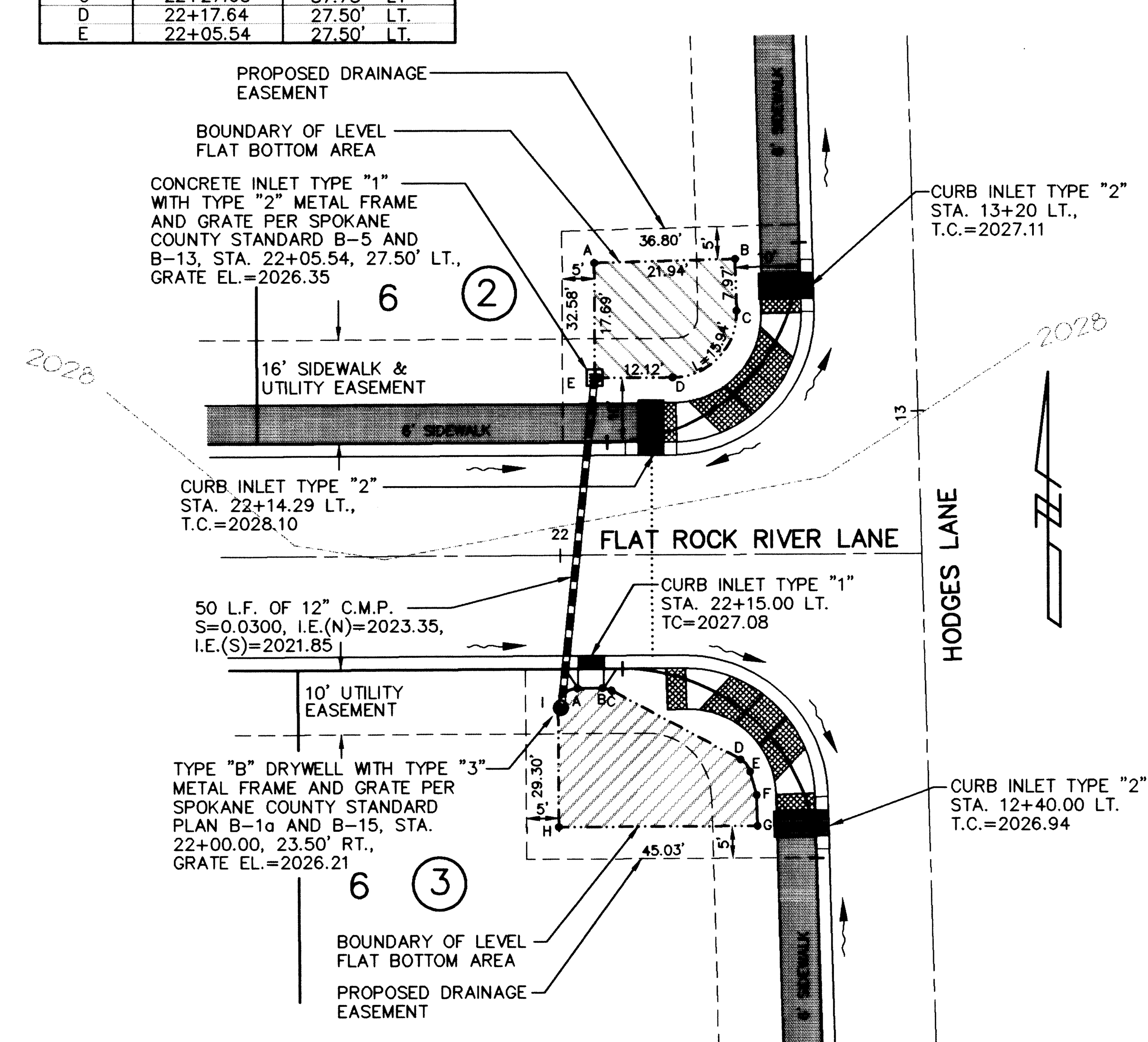
E	22+05.54	27.50' LT.



POND BOTTOM DIMENSION TABLE

POINTS	LENGTH
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B–C	1.47' 3'R
C–D	22.73'
D–E	2.44' 3'R
E–F	3.75'
F–G	4.75'
G–H	30.91'
H–I	18.30'
I–A	4.71' 3'R

POND BOTTOM LOCATION TABLE (FLAT ROCK RIVER LANE STATION & OFFSET)

POINT	STATION	OFFSET
A	22+02.57	20.50' RT.
B	22+06.45	20.50' RT.
C	22+07.86	20.85' RT.
D	22+27.90	31.58' RT.
E	22+29.38	33.43' RT.
F	22+30.37	37.05' RT.
G	22+30.48	41.80' RT
H	21+99.57	41.80' RT
I	21+99.57	23.50' RT.

POND "D" (4/5)

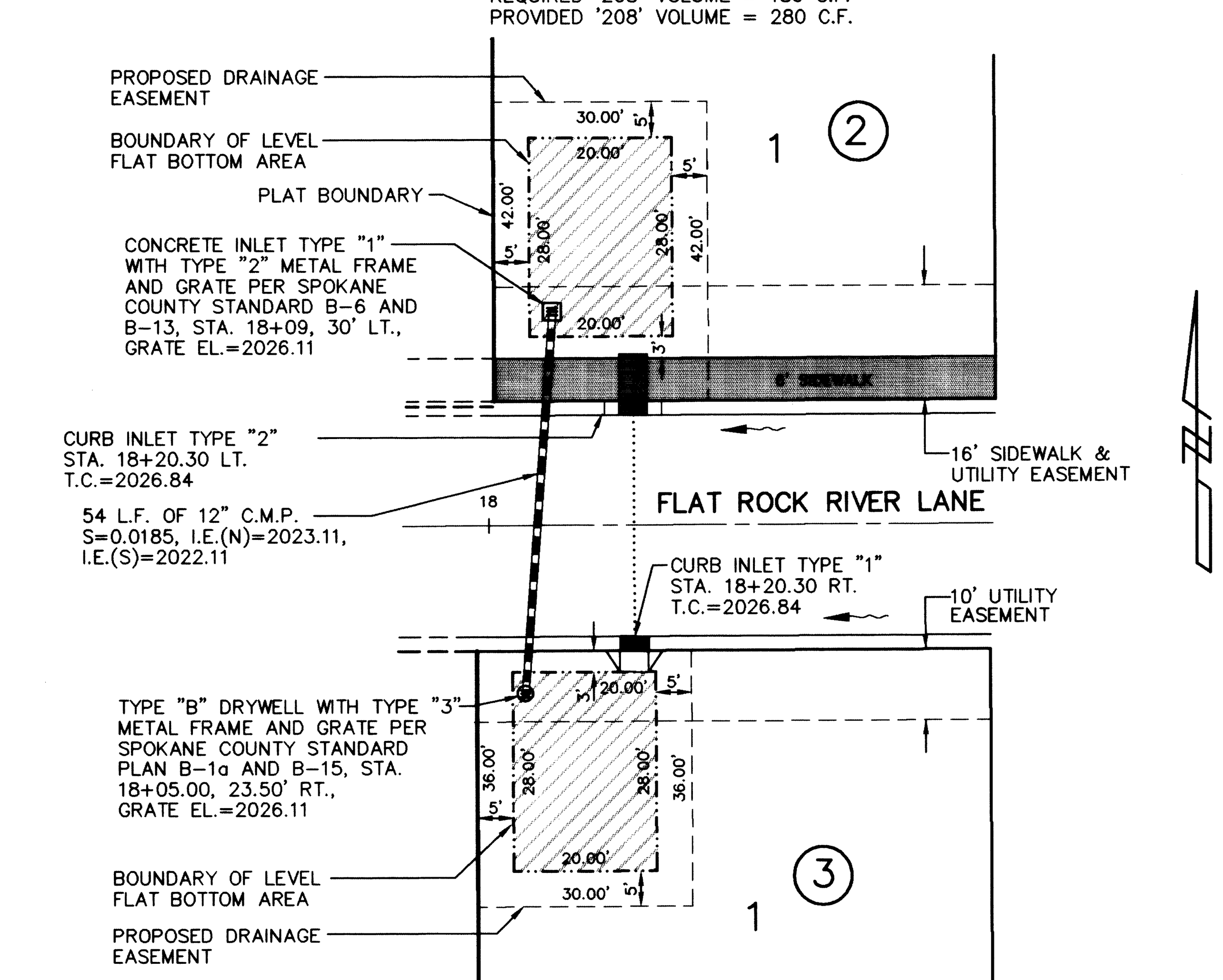
SCALE: 1"=20'

POND BOTTOM ELEV = 2025.50
POND BOTTOM AREA = 508 S.F.
PERIMETER = 93 L.F.
TOP OF BERM = 2027.14
REQUIRED '208' VOLUME = 235 C.F.
PROVIDED '208' VOLUME = 254 C.F.

POND "A" (1/5)

SCALE: 1"=20'

POND BOTTOM ELEV. = 2025.40
POND BOTTOM AREA = 560 S.F.
PERIMETER = 96 L.F.
TOP OF BERM = 2027.04
REQUIRED '208' VOLUME = 186 C.F.
PROVIDED '208' VOLUME = 280 C.F.



POND "C" (2/5)

1"=20'

POND BOTTOM ELEV. = 2025.40
POND BOTTOM AREA = 560 S.F.
PERIMETER = 96 L.F.
TOP OF BERM = 2027.04
REQUIRED '208' VOLUME = 187 C.F.
PROVIDED '208' VOLUME = 280 C.F.

DEVELOPER'S APPROVAL — DATE 1/26/99

NO.	DATE	BY	REVISIONS
1	3/31/00	RM	REVISED POND "F" DET. 7; ADDED DET. "C"

TODD R. WHIPPLE, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER 25462 — EXPIRES 9/24/00

DATE: 1/12/99
DRAWN BY: MJI,RLM2,MLH
DESIGNED BY: SKM TRW
CHECKED BY: TRW

SCALE: HORIZONTAL: 1"=20' VERTICAL: N/A

INLAND PACIFIC ENGINEERING
707 West 7th • Suite 200 Spokane, WA 99204
(509) 458-6840 FAX: (509) 458-6844

STREET

RIVERWALK 8TH ADDITION
(A PLANNED UNIT DEVELOPMENT)
POND DETAILS

SHEET 5 OF 5
JOB NUMBER 99009

1414-G

SDSKPROJ\99009\POND