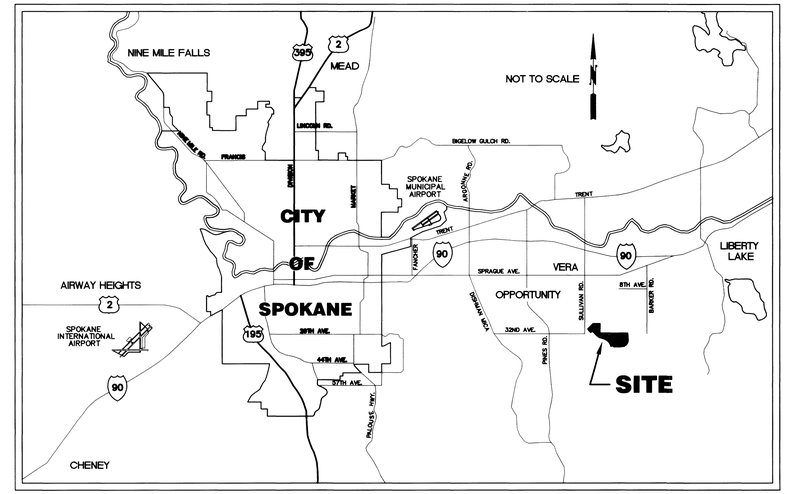
MORNINGSIDE HEIGHTS 5TH ADDITION

SPOKANE COUNTY, WASHINGTON

SECTION 30, T. 25N., R. 45E., W.M.



LOCATION MAP

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1962
DATE ACCEPTED: 8/3/06
ACCEPTANCE EXPIRES: 8/2/08
PROJECT LANE MILES PUBLIC: 0.66
PROJECT LANE MILES PRIVATE:
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

SCHEDULE OF DRAWINGS

SHEET NO. DESCRIPTION

GENERAL

1 ..... COVER SHEET

ROAD

1.1 ..... ROAD INDEX SHEET
2 ..... APOLLO ROAD-STA. 12+00 TO STA. 22+00
3 ..... APOLLO ROAD-STA. 22+00 TO CHAPMAN ROAD
4 ..... SUNDANCE DRIVE-APOLLO ROAD TO STA. 12+21.19
PRIVATE DRIVEWAY ACCESS- EXISTING CHAPMAN ROAD
5 ..... DAYSTAR ROAD-STA. 11+74 TO STA. 24+00
6 ..... DAYSTAR ROAD-STA. 24+00 TO APOLLO ROAD
7 ..... INCLINE DRIVE-APOLLO ROAD TO STA. 14+85.91
8 ..... SELKIRK DRIVE- APOLLO ROAD TO DAYSTAR ROAD
9 ..... CLOVER DRIVE- APOLLO ROAD TO STA. 21+02.04
10 ..... ROAD DETAILS

DRAINAGE

11 ..... APOLLO ROAD-STA. 11+84.26 TO STA. 24+00
12 ..... APOLLO ROAD-STA. 24+00 TO STA. 30+66.57
13 ..... INCLINE DRIVE-STA. 9+83.50 TO STA. 14+85.91
14 ..... SELKIRK DRIVE-APOLLO ROAD TO DAYSTAR ROAD
15 ..... CLOVER DRIVE- STA. 18+00 TO STA. 22+38.65
16 ..... STORM OUTLETS TO SWALES
17 ..... EROSION CONTROL PLAN
18 ..... DETENTION SWALE PLAN
19 ..... DETENTION SWALE AND EROSION CONTROL DETAILS
20 ..... POND DETAILS

GENERAL NOTES:

1. ALL MATERIALS AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION 1995", AS AMENDED, AND PER THE "2000 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" AS PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (W.S.D.O.T.) AND BY THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA).
2. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 1-800-424-5555 BEFORE YOU DIG.
3. LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLAN 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. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR RELOCATION OF POWER POLES, LIGHTS, TELEPHONE, AND/OR OTHER UTILITIES THAT MAY CONFLICT WITH THE CONSTRUCTION.
4. THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE APPROVED ROAD AND DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS. CONTRACTOR SHALL ALSO MAINTAIN ON THE SITE A COMPLETE SET OF RED LINE RECORD DRAWINGS INDICATING ALL CHANGES FROM THE APPROVED DRAWINGS.
5. CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER AND THE SPOKANE COUNTY ENGINEER'S OFFICE.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO ADJACENT EXISTING PROPERTIES OR IMPROVEMENTS. CONTRACTOR IS RESPONSIBLE FOR CLEAN-UP OF ANY AREAS DISTURBED BY HIS ACTIVITIES.
7. FOR ANY CURB GRADES LESS THAN 0.8% (0.008 FT/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 RESPONSIBLE FOR ARRANGING AND COORDINATING WORK WITH THE PROFESSIONAL LAND SURVEYOR.
8. ALL PROPOSED ROADWAY AREAS SHALL BE STRIPPED TO A DEPTH OF AT LEAST 12" OF ALL VEGETATION, NEAR-SURFACE ROOTS, ANY EXISTING FILL, AND TOPSOIL. THE STRIPPED MATERIAL CAN BE RE-USED FOR LANDSCAPING, BUT IS NOT ACCEPTABLE FOR STRUCTURAL FILL.
9. NATIVE MATERIALS, EXCLUDING TOPSOIL, IS ACCEPTABLE FOR USE AS STRUCTURAL FILL. IF STRUCTURAL FILL IS IMPORTED IT SHALL CONSIST OF WELL-GRADED SAND AND GRAVEL WITH NO PARTICLES LARGER THAN FIVE INCHES IN DIAMETER AND NOT MORE THAN 30% BY WEIGHT PASSING THE #200 SIEVE. STRUCTURAL FILL SHALL BE PLACED IN MAX. 6 INCH LIFTS WITHIN 2% OF OPTIMUM MOISTURE AND COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR.
10. THE TOP 12 INCHES OF THE ROAD SUBGRADE SHALL BE MOISTURE CONDITIONED TO WITHIN 2% OF OPTIMUM AND COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR METHOD.
11. CRUSHED SURFACING TOP COURSE SHALL CONFORM TO WSDOT STANDARDS AND COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY.

    ASPHALT CONCRETE SHALL BE WSDOT CLASS B AND COMPACTED TO 92% OF THE THEORETICAL MAXIMUM DENSITY AS DETERMINED BY THE RICE METHOD.
12. DURING CONSTRUCTION, THE GROUND SURFACE SHOULD BE SLOPED TO PREVENT STORM RUNOFF FROM ACCUMULATING IN ANY OF THE SUBGRADE AREAS. ANY AREAS OF SOFTENED SUBGRADE SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.
13. SITE EXCAVATION, INCLUDING ROCK CUTS AND REMOVAL, SHALL CONFORM TO SECTION 2-03 OF THE WSDOT STANDARD SPECIFICATIONS. EMBANKMENTS TO BE CONSTRUCTED ACCORDING TO THE APPLICABLE PARAGRAPHS OF SECTION 2-03 OF THE WSDOT STANDARD SPECIFICATIONS. EARTH EMBANKMENTS TO BE CONSTRUCTED USING METHOD B OF 2-03.3(14)C.
14. ALL FILL IN AREAS OUTSIDE OF PAVEMENT SHALL BE COMPACTED IN MAXIMUM 8" LIFTS TO 92% OF MAXIMUM ASTM D 1557 DRY DENSITY. PAVEMENT SURGED SHALL BE COMPACTED TO 95%.
15. FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC (AMOCO 4545 OR APPROVED EQUIVALENT) BETWEEN THE WASHED DRAIN ROCK AND THE NATIVE SOIL.
16. THE FLOOR OF A GRASSED PERCOLATION AREA (GPA) SWALE INCLUDES THE LEVEL PORTION OF THE FLOOR 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. THE ENGINEER SHALL PROVIDE A WRITTEN STATEMENT WHICH VERIFIES THAT ALL GPA SWALES CONFORM TO THIS REQUIREMENT. THIS WRITTEN STATEMENT SHALL BE SUBMITTED TO THE SPOKANE COUNTY ENGINEER'S OFFICE PRIOR TO INSTALLING FINISHED LANDSCAPING/SOD AND PRIOR TO FINAL ACCEPTANCE. THE SWALE FLOOR MATERIAL SHALL BE INSTALLED TO A NATIVE SOIL STRATUM WHICH ALSO MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR.

The design improvements shown in this set of plans and calculations conform to the 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.

LEGEND

	EXISTING LOT LINE		PLAT BOUNDARY
2353	EXISTING CONTOUR		PROPOSED LOT LINES
	EASEMENT LINE		PROPOSED CURB & GUTTER
BT	EXISTING BURIED TELEPHONE		PROPOSED SIDEWALK
G	EXISTING BURIED GAS PIPELINE		PROPOSED WATER LINE PLUG
OE	EXISTING OVERHEAD ELECTRICAL		PROPOSED DRAINAGE FLOW
x x x x	EXISTING FENCE	W	PROPOSED WATER LINE
W	EXISTING WATER LINE	SS	PROPOSED SANITARY SEWER
SS	EXISTING SEWER LINE	SD	PROPOSED STORM DRAIN LINE
SD	EXISTING STORM DRAIN LINE	2160	FINISH CONTOUR
	EXISTING WATER VALVE	2300	FINISH GRADE ELEVATION
	EXISTING WATER LINE FITTING (TYP.)		PROPOSED WATER VALVE
	EXISTING FIRE HYDRANT		PROPOSED CONCRETE THRUST BLOCK
	EXISTING WATER METER AND SERVICE		PROPOSED WATER FITTING (TYP.)
	EXISTING SIGN		PROPOSED WATER VALVE
	EXISTING SS MANHOLE		PROPOSED FIRE HYDRANT
DW	EXIST. DRYWELL		PROPOSED SS MANHOLE
CB	EXIST. CATCH BASIN		PROPOSED STORM MANHOLE
	EXISTING STORM MANHOLE		PROPOSED STORM CATCH BASIN
CO	EXISTING CLEAN OUT		PROPOSED CLEAN OUT
			PROPOSED CURB INLET
			PROPOSED DRYWELL
		MON.	MONUMENT

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800-424-5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG

Developer's Approval Richard Zeh president Date 8/1/6

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER
7/25/06
EXPIRES 03/10/07

REVISIONS

DWN: DJJ DATE: 04/25/06
CK'D: MAA DATE: 06/01/06

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

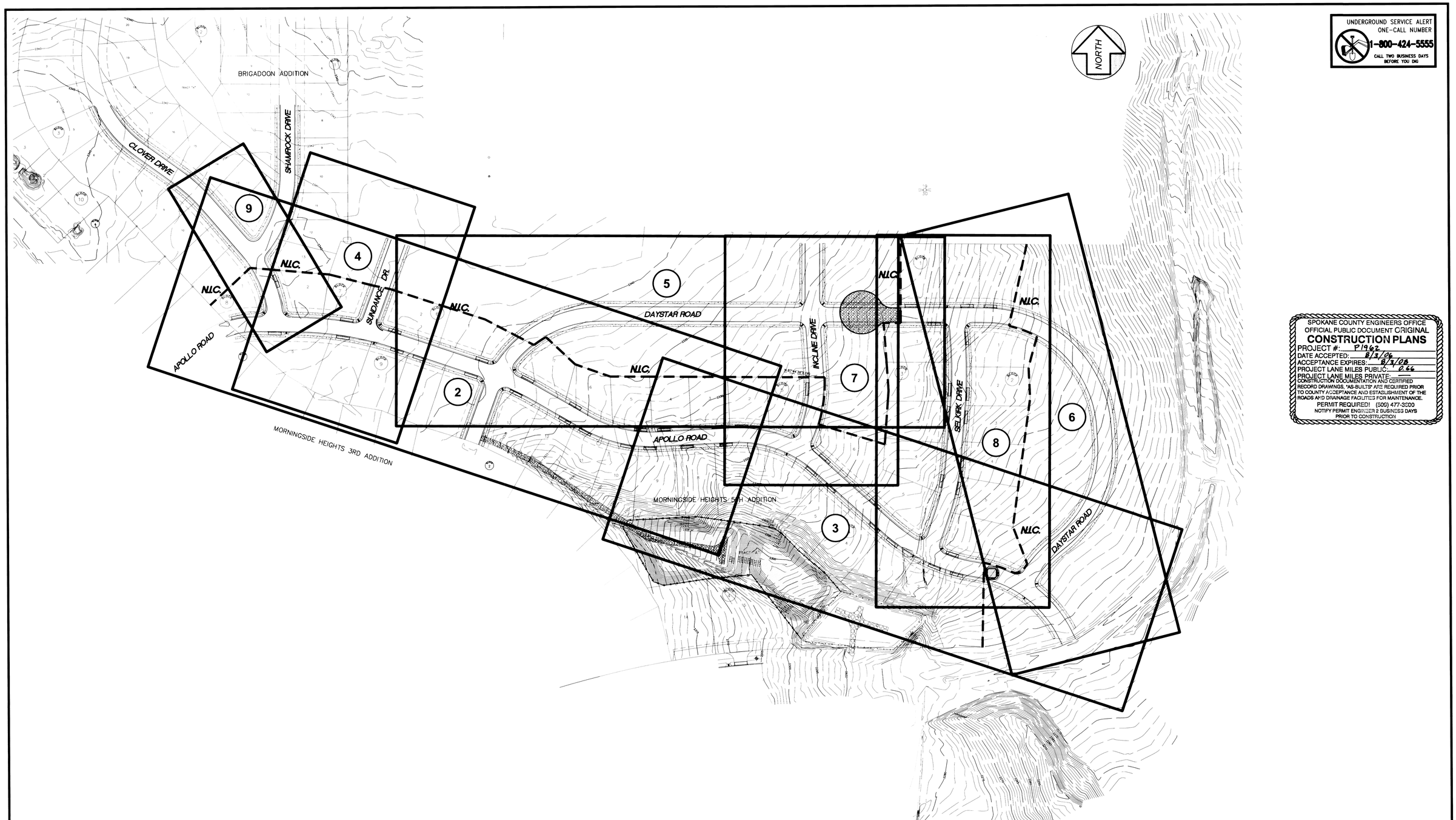
SCALE: N/A

1 / 20

MORNINGSIDE HEIGHTS
FIFTH ADDITION
COVER SHEET

05081-COVER SHEET.dwg

P-1962 Eng Road Drainage



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PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

No.	Date	By	Ckd.	Appr.	Revisions

Drawn: RIE	Date 05/1/06	
Designed: BAN	05/1/06	
Checked: MAA	06/20/06	

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 7/25/06 — EXPIRES 03/10/07

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W. 106 Mission Ave.
Spokane, Washington 99201
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SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

Developer's Approval: Richard D. Kohn President Date: 8/1/6

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL=2305.75 (NAVD 88)

CADD FILE NAME: 05081-ROAD INDEX(1.1)

100 50 0 100 200
SCALE FEET

SCALE
HORIZ. 1" = 100'
VERT. N/A

MORNINGSIDE HEIGHTS
FIFTH ADDITION

ROAD INDEX SHEET

ROAD
SHEET 1.1 / 20

P.1962 Eng Road Drainage

SEC.30, T.25 N., R. 45 EAST, W.M.

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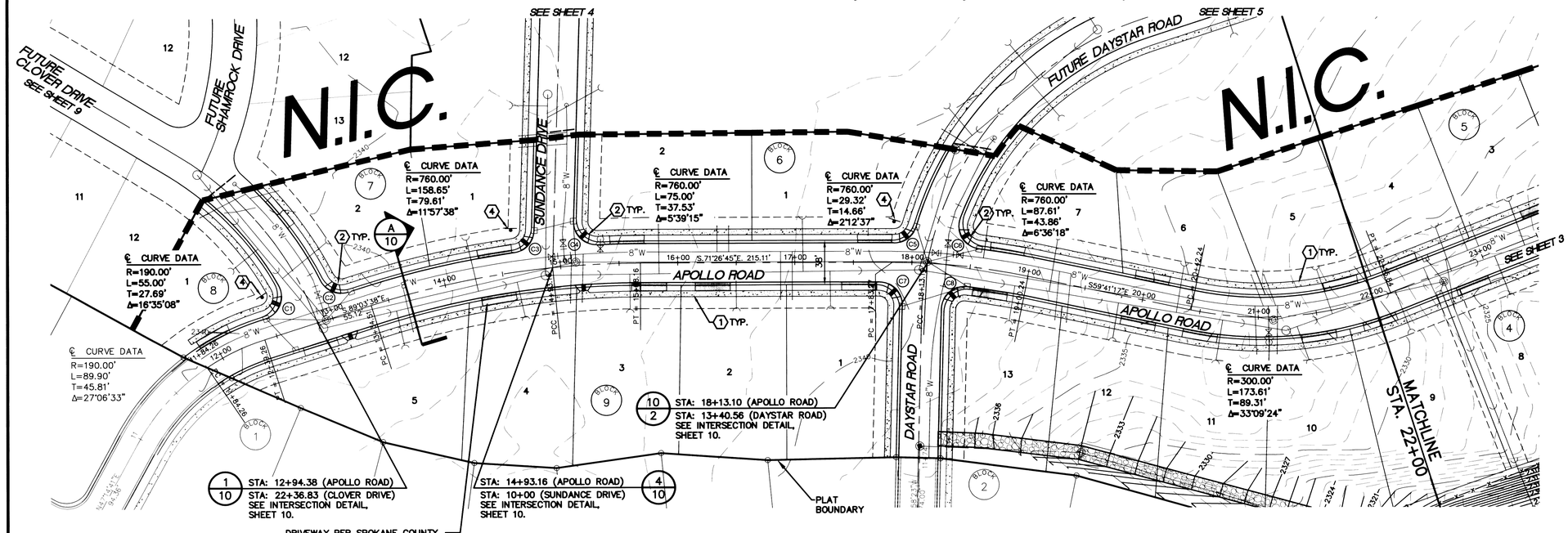

NORTH

CURVE TABLE AT FACE OF CURB

CURVE	RADIUS	LENGTH	DELTA
C1	20.00'	35.56'	101°51'27"
C2	20.00'	28.26'	80°56'41"
C3	20.00'	28.05'	80°21'20"
C4	20.00'	32.93'	94°21'03"
C5	20.00'	25.56'	73°14'02"
C6	20.00'	36.16'	103°35'18"
C7	20.00'	32.50'	93°06'07"
C8	20.00'	32.62'	93°26'09"

CONSTRUCTION NOTES
ALL DETAILS SHALL BE PER SPOKANE COUNTY STANDARDS UNLESS OTHERWISE NOTED.

1. CONSTRUCT 5' WIDE SIDEWALK PER SPO. CO. STD. SHT. A-4.
2. CONSTRUCT CURB RAMP PER SPO. CO. STD. SHT. A-5., DESIGN B.
3. NOT USED.
4. INSTALL ROAD NAME SIGN PER SPOKANE COUNTY STANDARDS AND POST.

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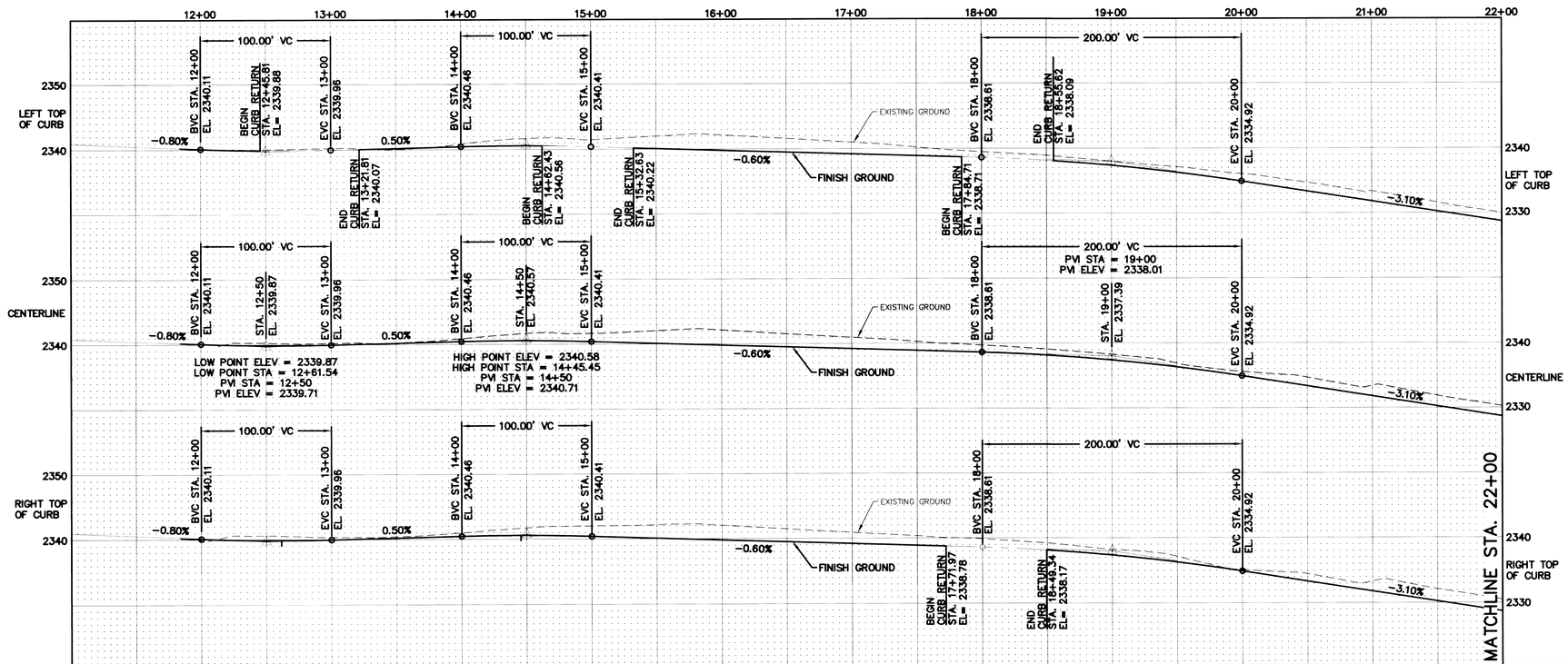

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Drawn: RIE,DJJ — Date 05/1/06
Designed: BAN — 05/1/06
Checked: MAA — 06/20/06

MARK A. ARONSON, STATE OF WASHINGTON, 24681, REGISTERED PROFESSIONAL ENGINEER — 7/25/06 — EXPIRES 03/10/07

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Developer's Approval: Richard Dahl President — Date: 8/1/6

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VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)

CADD FILE NAME: 05081-ROAD 2

50 25 0 50 100
SCALE FEET

SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

MORNINGSIDE HEIGHTS
FIFTH ADDITION

APOLLO ROAD
STA. 12+00 TO STA. 22+00

ROAD
SHEET 2 / 20

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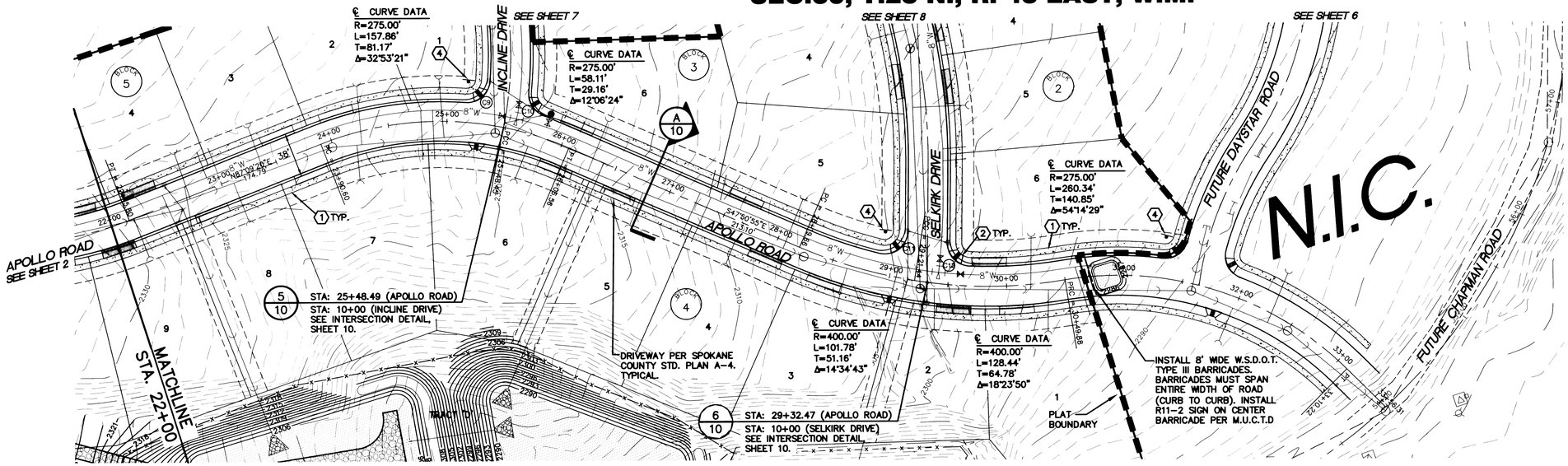

CURVE TABLE AT FACE OF CURB

CURVE	RADIUS	LENGTH	DELTA
C9	20.00'	31.39'	89°54'56"
C10	20.00'	25.13'	71°59'21"
C11	20.00'	36.10'	103°24'20"
C12	20.00'	30.80'	88°13'22"

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3. NOT USED.
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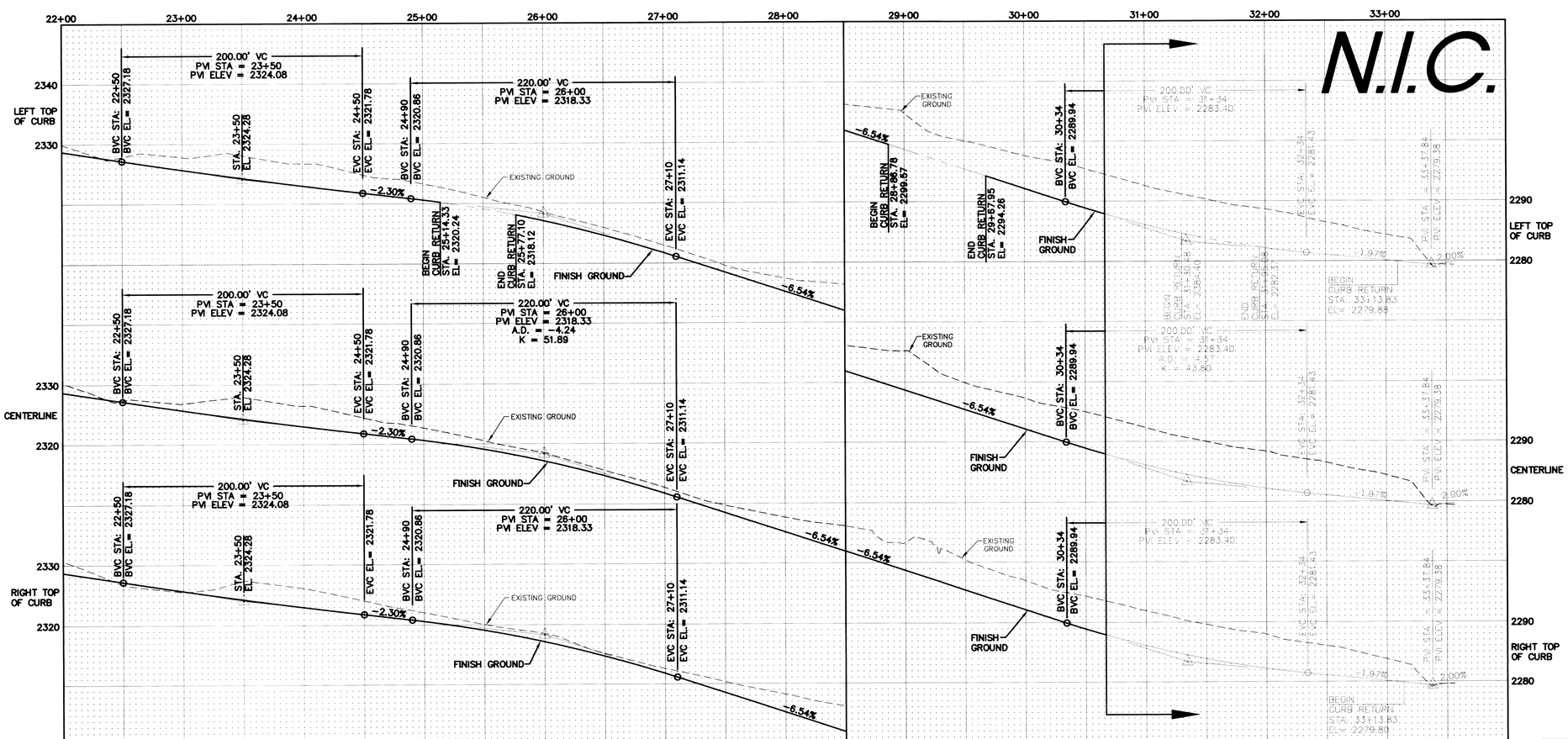

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Designed:	BAN	05/1/06
Checked:	MAA	06/20/06

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 7/25/06 — EXPIRES 03/10/07

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Developer's Approval: Richard D. Sahlquist President Date: 8/1/06

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CADD FILE NAME: 05081-ROAD 3

50 25 0 50 100
SCALE FEET

SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

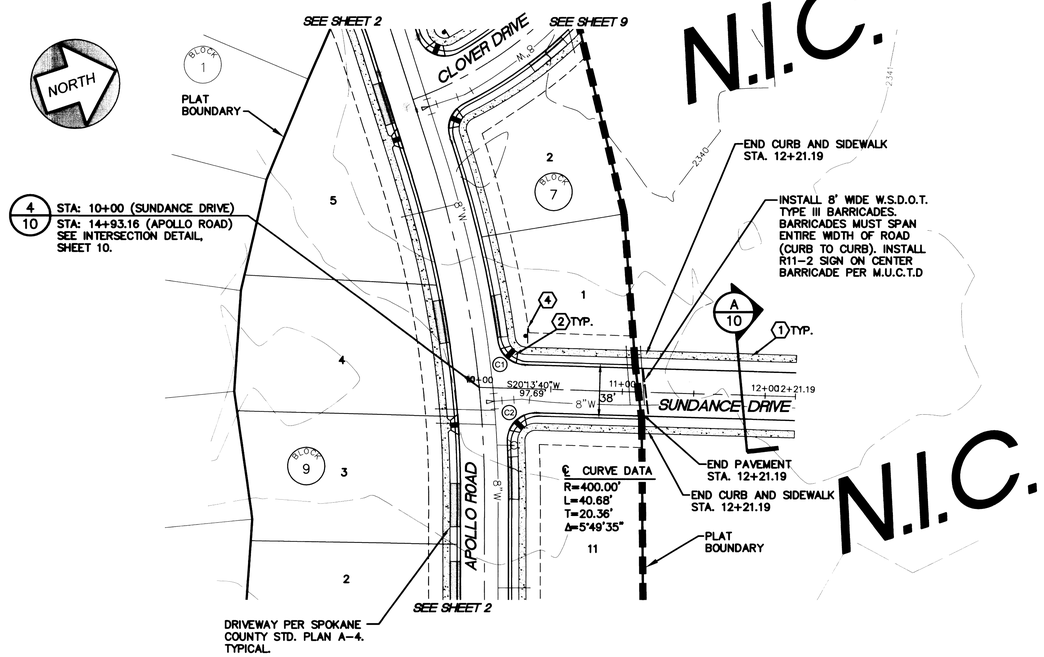
MORNINGSIDE HEIGHTS
FIFTH ADDITION

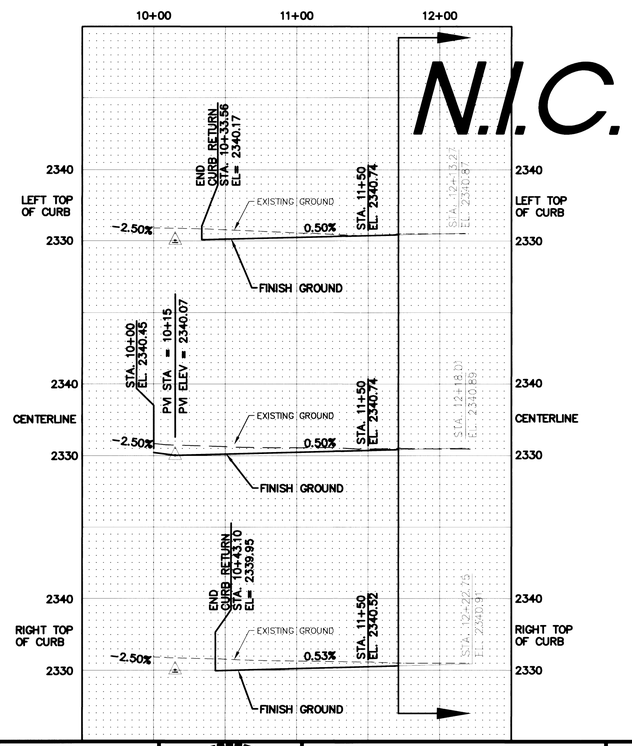
APOLLO ROAD
STA. 22+00 TO CHAPMAN ROAD

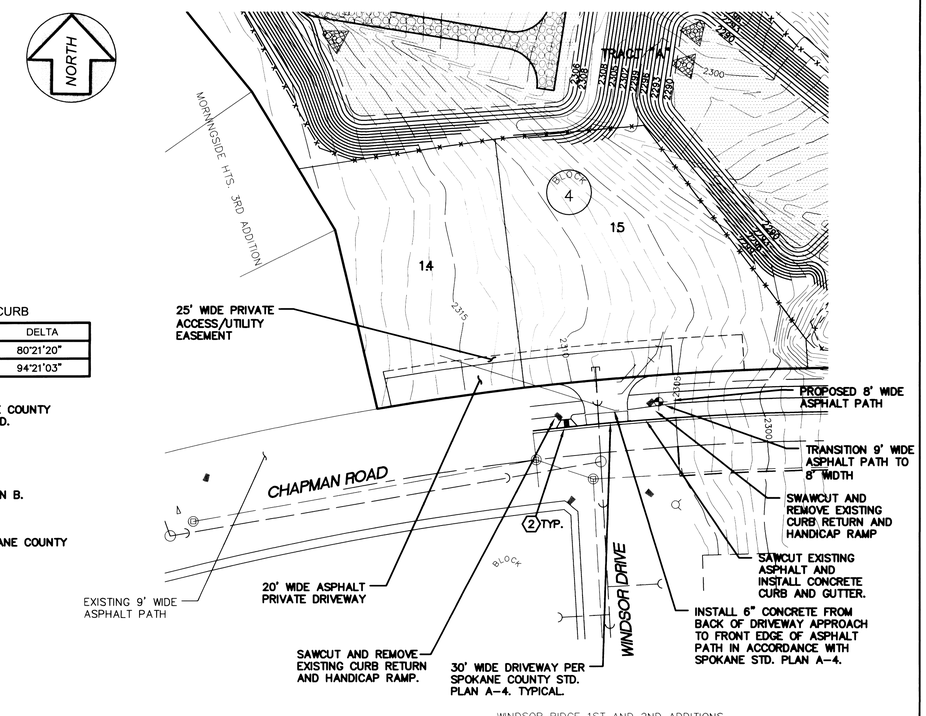
ROAD
SHEET 3 / 20

P-1962 Eng Prod Drawings

SEC.30, T.25 N., R. 45 EAST, W.M.







CURVE TABLE AT FACE OF CURB

CURVE	RADIUS	LENGTH	DELTA
C1	20.00'	28.05'	80°21'20"
C2	20.00'	32.93'	94°21'03"

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Designed:	BAN	05/1/06
Checked:	MAA	06/20/06

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 7/25/06 — EXPIRES 03/10/07

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Spokane Wa. 99260
509-477-3600

Developer's Approval: Richard D. Baker President Date: 8/1/06

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)

CADD FILE NAME: 05081-ROAD 4

50 25 0 50 100
SCALE FEET

SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

MORNINGSIDE HEIGHTS
FIFTH ADDITION

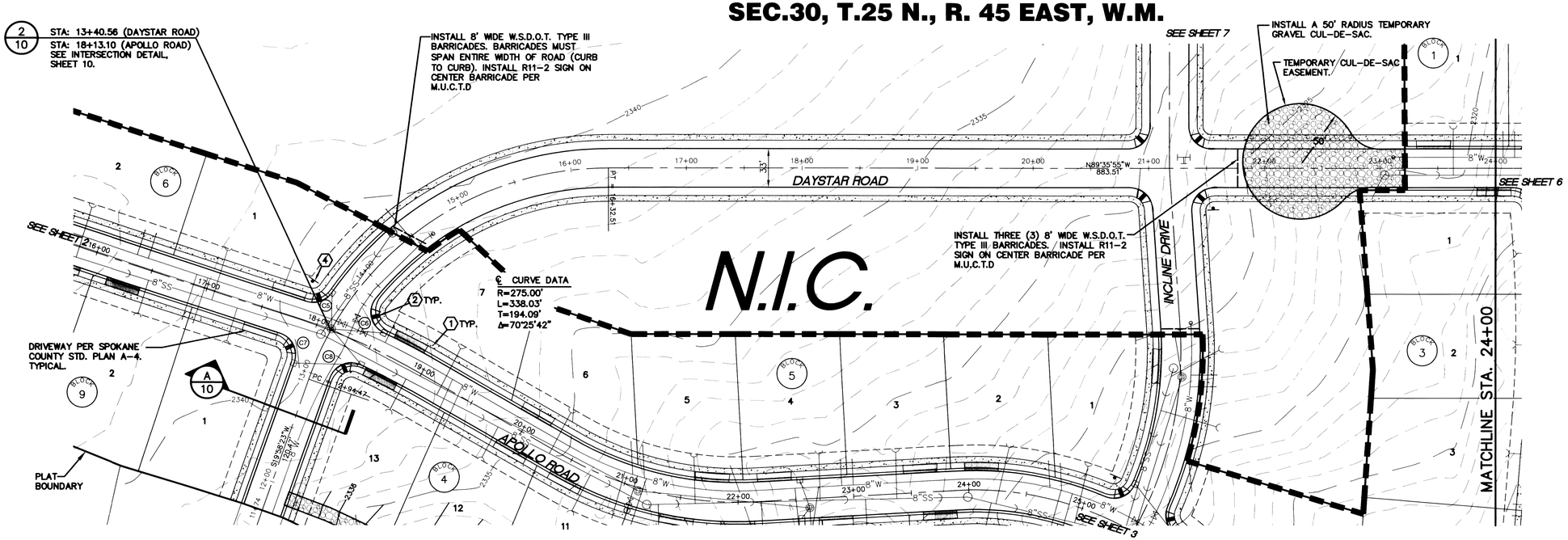
SUNDANCE DRIVE
APOLLO ROAD TO STA. 12+21.19

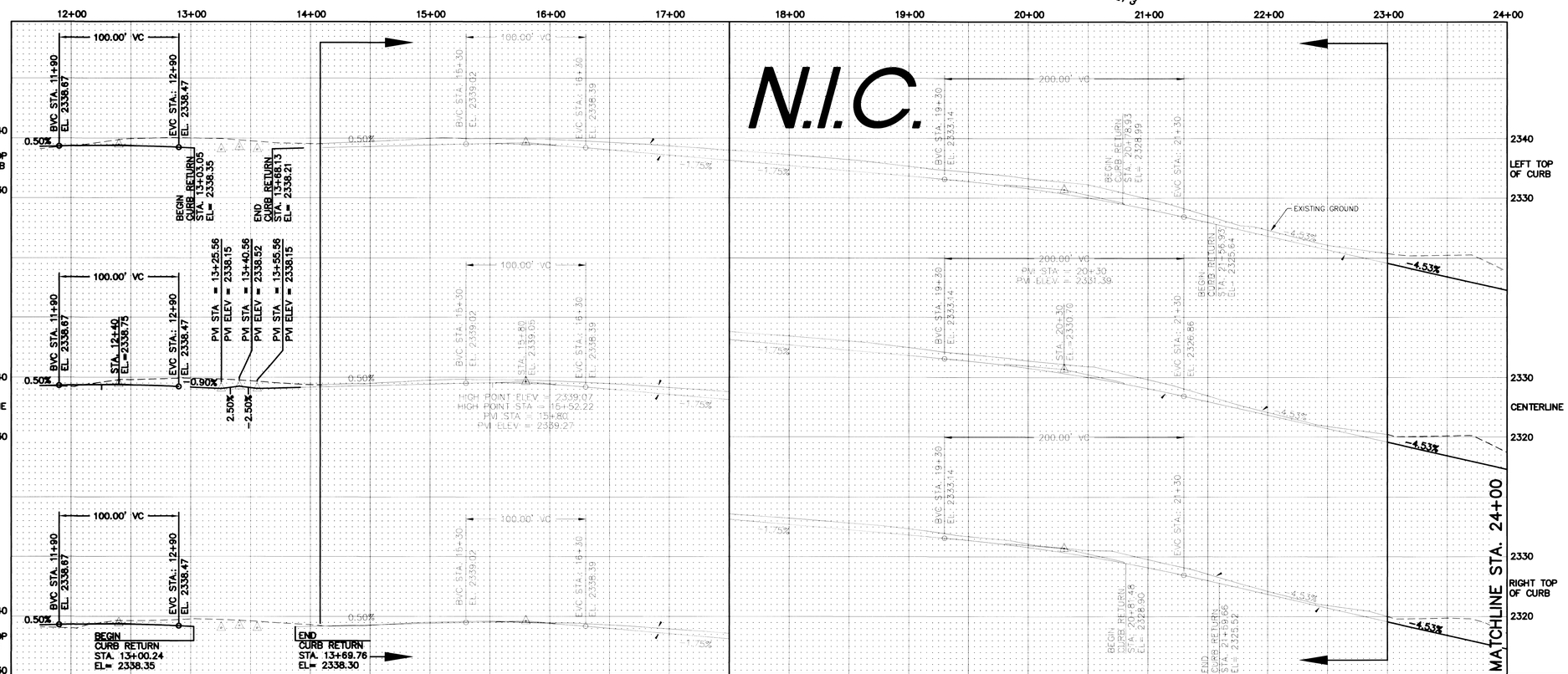
PRIVATE DRIVEWAY ACCESS
EXISTING CHAPMAN ROAD

ROAD
SHEET 4 / 20

P.1962 Eng Rd Drainage

SEC.30, T.25 N., R. 45 EAST, W.M.





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NORTH

CURVE TABLE AT FACE OF CURB

CURVE	RADIUS	LENGTH	DELTA
C5	20.00'		73°14'02"
C6	20.00'		103°35'18"
C7	20.00'	32.50'	93°06'07"
C8	20.00'		93°26'09"

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DATE ACCEPTED: 8/2/06
ACCEPTANCE EXPIRES: 8/5/08
PROJECT LANE MILES PUBLIC: 0.66
PROJECT LANE MILES PRIVATE: —
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER [illegible] DAYS PRIOR TO CONSTRUCTION

No.	Date	By	Ckd.	Appr.	Revisions

		Date
Drawn:	RIE	05/1/06
Designed:	BAN	05/1/06
Checked:	MAA	06/20/06

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 8/2/06 — EXPIRES 03/10/07

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

Developer's Approval: [signature] Date: 8/1/6

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)

CADD FILE NAME: 05081-ROAD 5

50 25 0 50 100
SCALE FEET

SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

MORNINGSIDE HEIGHTS
FIFTH ADDITION

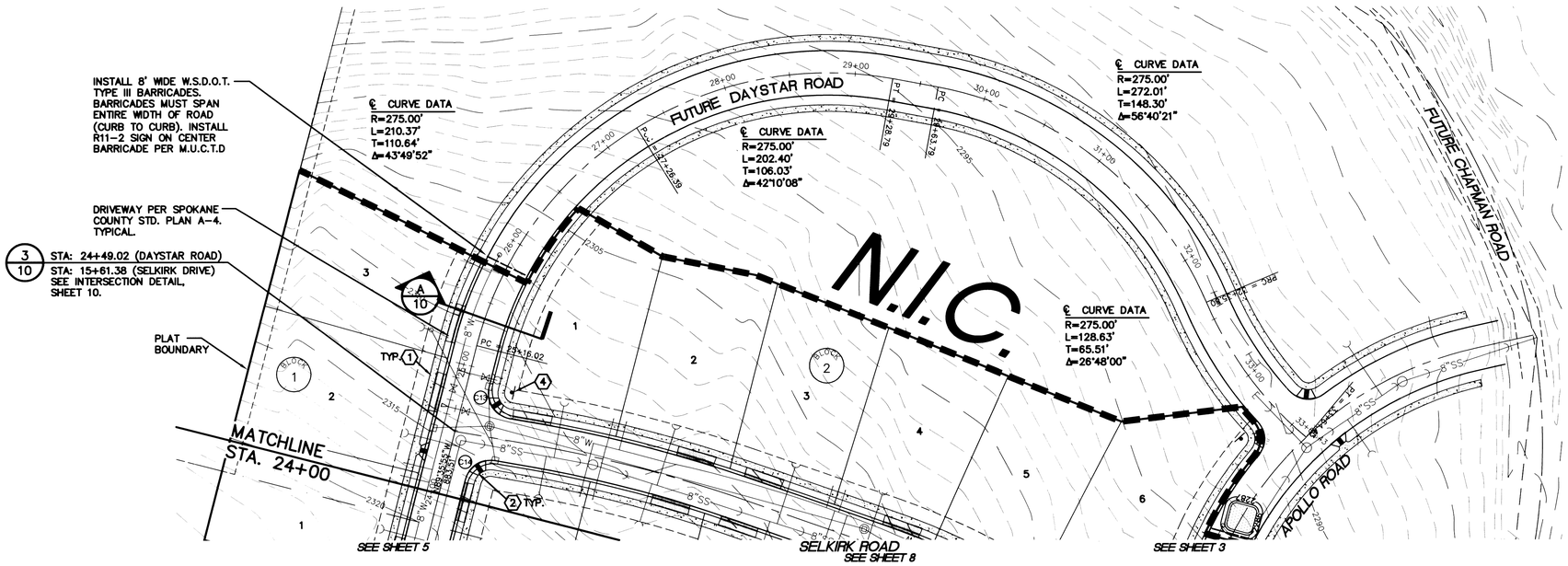
DAYSTAR ROAD
STA. 11+74 TO STA. 24+00

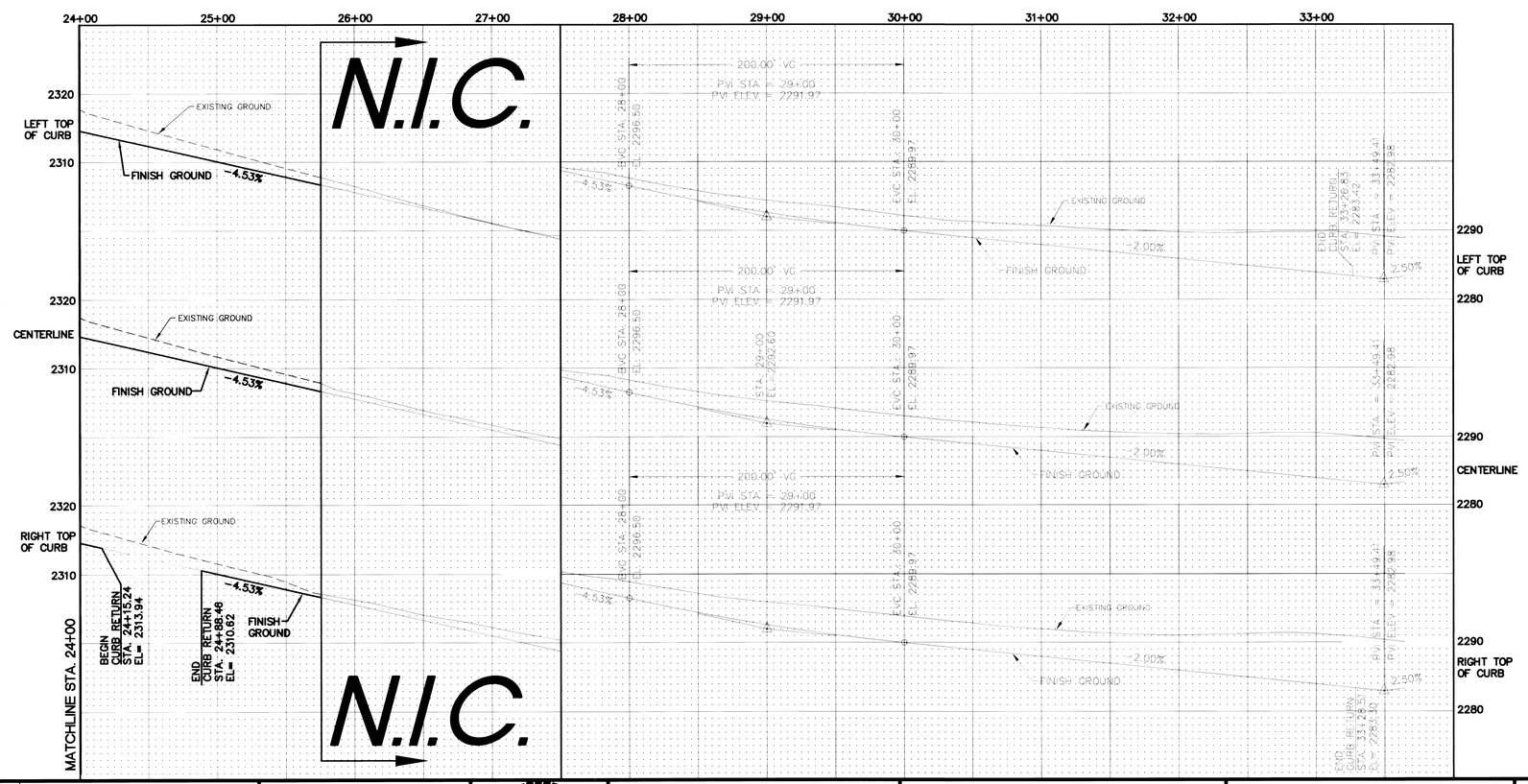
ROAD
SHEET 5 / 20

P.1962 [signature]

SEC.30, T.25 N., R. 45 EAST, W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800-424-5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG





NORTH

CURVE TABLE AT FACE OF CURB

CURVE	RADIUS	LENGTH	DELTA
C13	20.00'	32.96'	94°25'57"
C14	20.00'	29.87'	85°34'03"

CONSTRUCTION NOTES
ALL DETAILS SHALL BE PER SPOKANE COUNTY STANDARDS UNLESS OTHERWISE NOTED.

1. CONSTRUCT 5' WIDE SIDEWALK PER SPO. CO. STD. SHT. A-4.
2. CONSTRUCT CURB RAMP PER SPO. CO. STD. SHT. A-5., DESIGN B.
3. NOT USED.
4. INSTALL ROAD NAME SIGN PER SPOKANE COUNTY STANDARDS AND POST.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1962
DATE ACCEPTED: 8/3/06
ACCEPTANCE EXPIRES: 8/3/08
PROJECT LANE MILES PUBLIC: 0.66
PROJECT LANE MILES PRIVATE: —
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

No.	Date	By	Ckd.	Appr.	Revisions

		Date
Drawn:	RIE,DJJ	05/1/06
Designed:	BAN	05/1/06
Checked:	MAA	06/20/06

MARK A. ARONSON, STATE OF WASHINGTON, 24681, REGISTERED PROFESSIONAL ENGINEER, 7/25/06, EXPIRES 03/10/07

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

Developer's Approval: Richard Baker President Date: 8/1/06

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)

CADD FILE NAME: 05081-ROAD 6

50 25 0 50 100
SCALE FEET

SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

MORNINGSIDE HEIGHTS
FIFTH ADDITION

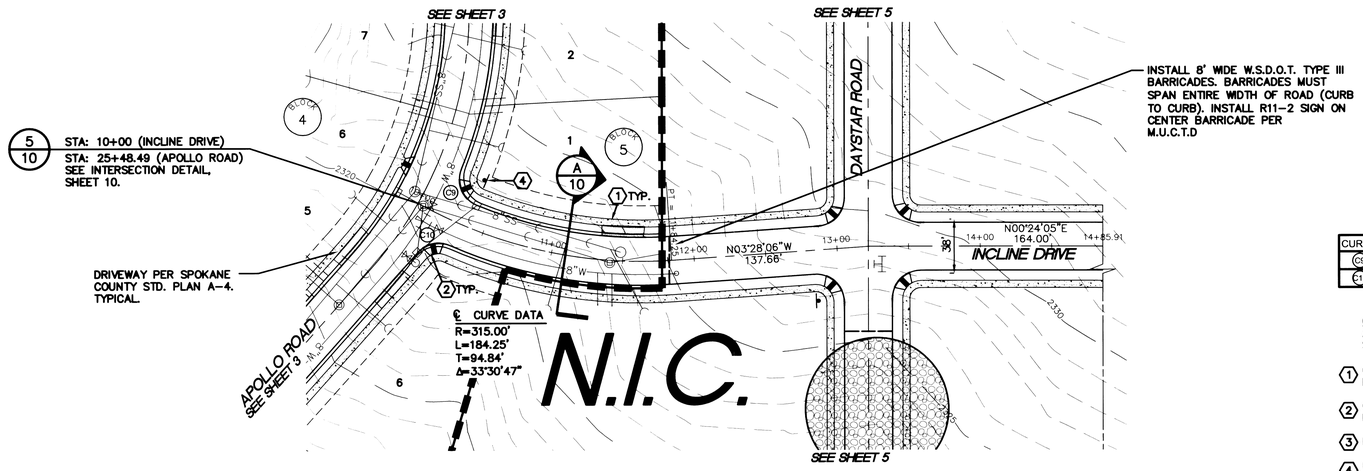
DAYSTAR ROAD
STA. 24+00 TO APOLLO ROAD

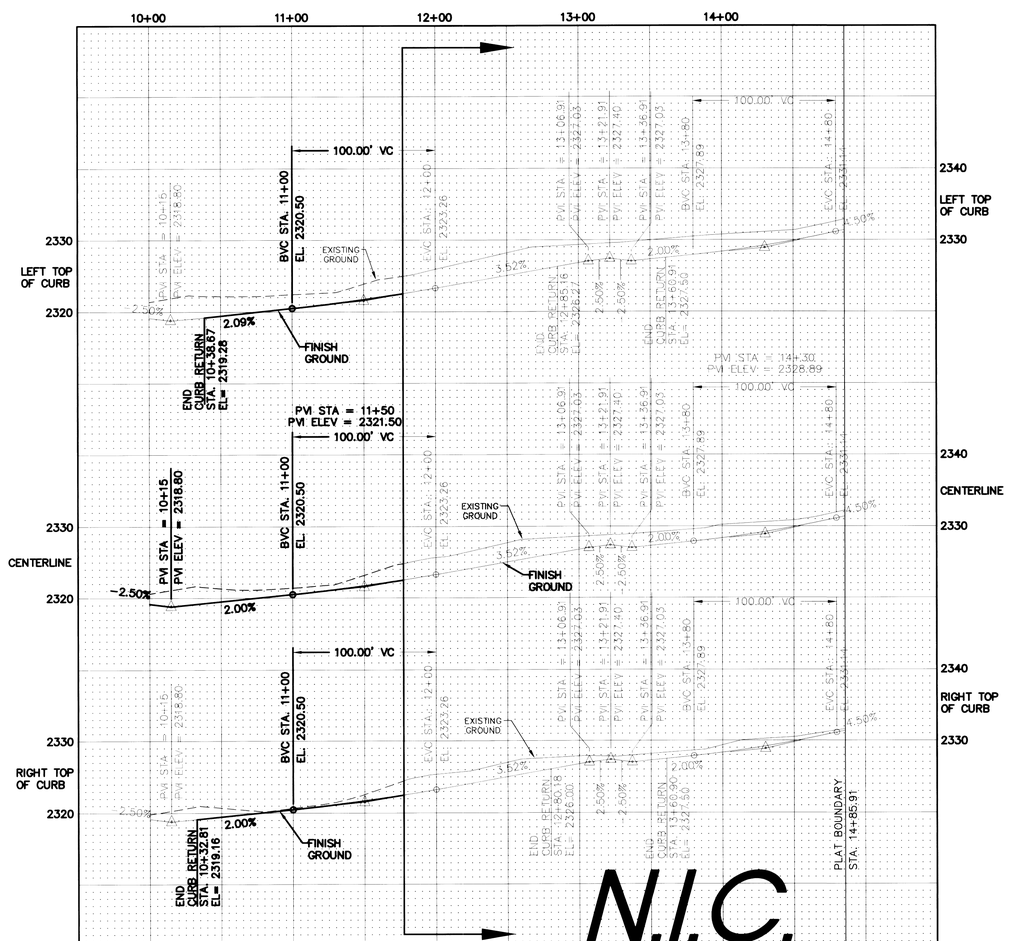
ROAD
SHEET 6/20

P-1962 Eng Road Drainage

SEC.30, T.25 N., R. 45 EAST, W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800-424-5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG





CURVE TABLE AT FACE OF CURB

CURVE	RADIUS	LENGTH	DELTA
C9	20.00'	31.39'	89°54'56"
C10	20.00'	25.13'	71°59'21"

CONSTRUCTION NOTES
ALL DETAILS SHALL BE PER SPOKANE COUNTY STANDARDS UNLESS OTHERWISE NOTED.

1. CONSTRUCT 5' WIDE SIDEWALK PER SPO. CO. STD. SHT. A-4.
2. CONSTRUCT CURB RAMP PER SPO. CO. STD. SHT. A-5., DESIGN B.
3. NOT USED.
4. INSTALL ROAD NAME SIGN PER SPOKANE COUNTY STANDARDS AND POST.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1962
DATE ACCEPTED: 8/3/06
ACCEPTANCE EXPIRES: 8/3/08
PROJECT LANE MILES PUBLIC: 0.66
PROJECT LANE MILES PRIVATE:
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

No.	Date	By	Ckd.	Appr.	Revisions

Drawn: RIE,DJJ — Date 05/1/06
Designed: BAN — 05/1/06
Checked: MAA — 06/20/06

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 7/25/06 — EXPIRES 03/10/07

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

Developer's Approval: President — Date 8/1/6

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)
CADD FILE NAME: 05081-ROAD 7
50 25 0 50 100 — SCALE — FEET

SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

MORNINGSIDE HEIGHTS
FIFTH ADDITION

INCLINE DRIVE
APOLLO ROAD TO STA. 14+85.91

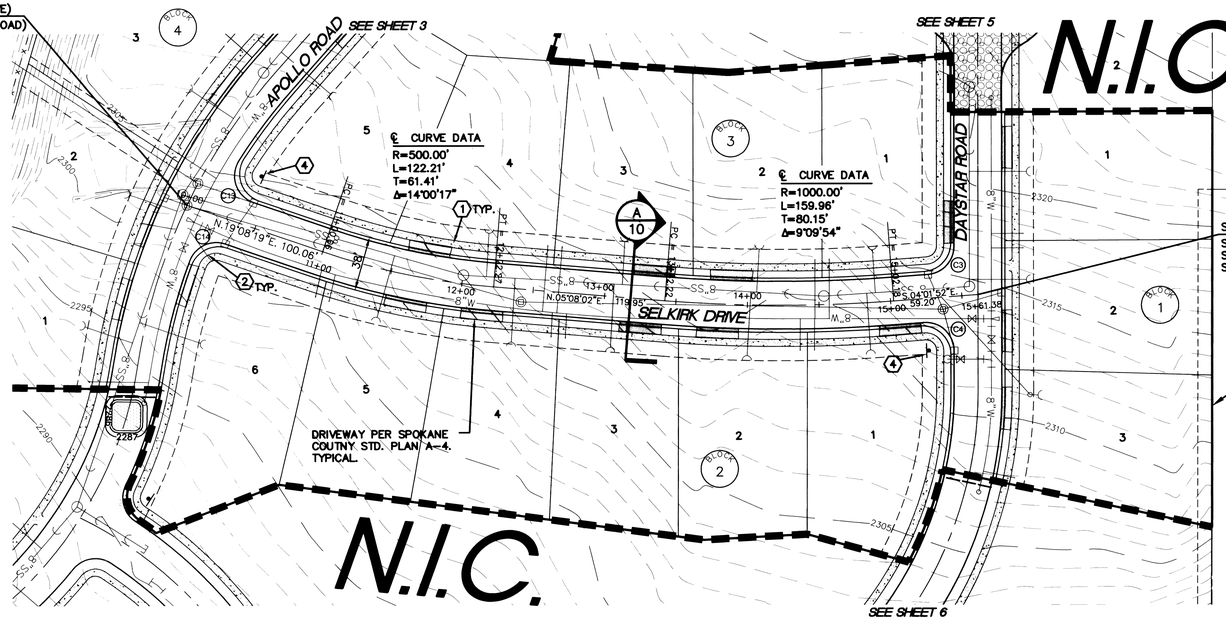
ROAD
SHEET 7 / 20

P-1962 Eng Rd Drawing

SEC.30, T.25 N., R. 45 EAST, W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800-424-5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG

6/10 STA: 10+00 (SELKIRK DRIVE)
STA: 29+32.47 (APOLLO ROAD)
SEE INTERSECTION DETAIL, SHEET 10.



STA: 15+61.38 (SELKIRK DRIVE) 3/10
STA: 24+49.02 (DAYSTAR ROAD)
SEE INTERSECTION DETAIL, SHEET 10.

CURVE TABLE AT FACE OF CURB

CURVE	RADIUS	LENGTH	DELTA
C13	20.00'	32.96'	94°25'57"
C14	20.00'	29.87'	85°34'03"

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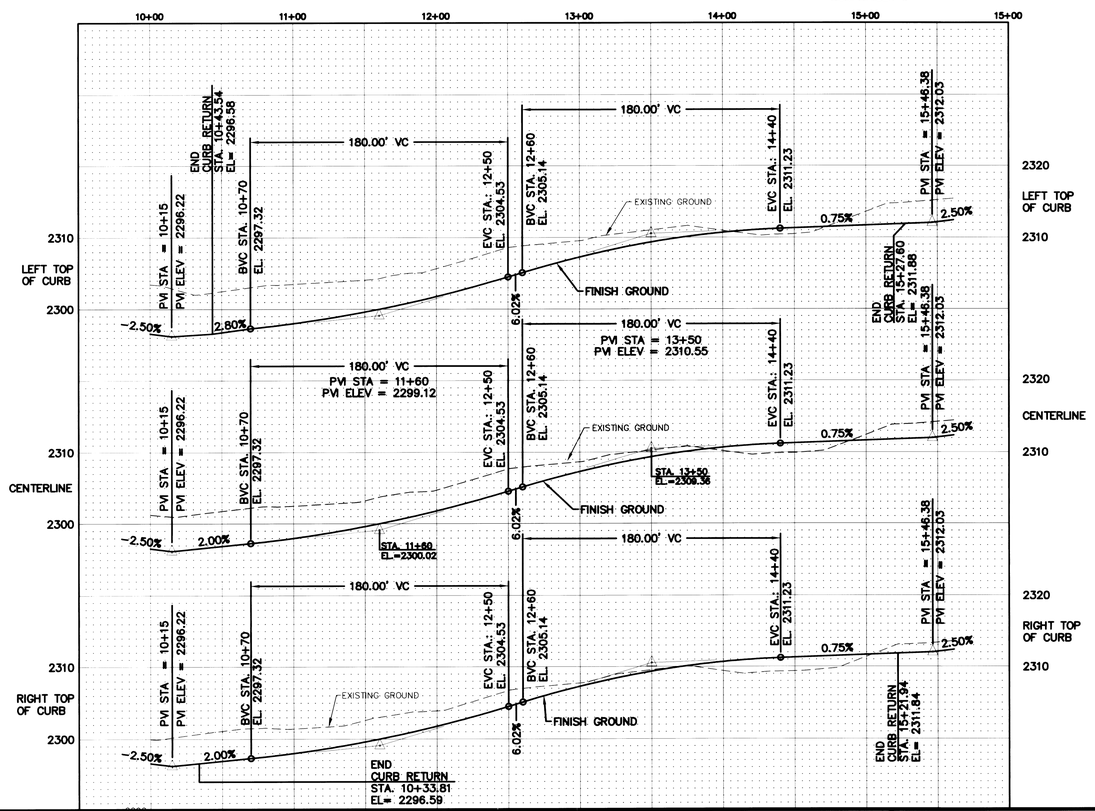
1. CONSTRUCT 5' WIDE SIDEWALK PER SPO. CO. STD. SHT. A-4.
2. CONSTRUCT CURB RAMP PER SPO. CO. STD. SHT. A-5.
3. NOT USED.
4. INSTALL ROAD NAME SIGN AND POST.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1962
DATE ACCEPTED: 8/3/06
ACCEPTANCE EXPIRES: 8/3/08
PROJECT LANE MILES PUBLIC: 0.66
PROJECT LANE MILES PRIVATE: ——
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" / "FIELD-VERIFIED" REQUIRED PRIOR TO COUNTY ACCEPTANCE AND THE ASSUMPTION OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED
NOTIFY PERMIT ENGINEER [illegible] DAYS PRIOR TO CONSTRUCTION.



No.	Date	By	Ckd.	Appr.	Revisions

Drawn: RIE 05/1/06
Designed: BAN 05/1/06
Checked: MAA 06/20/06

MARK A. ARONSON, STATE OF WASHINGTON, 24681, REGISTERED PROFESSIONAL ENGINEER, 8/25/06, EXPIRES 03/10/07

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SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

Developer's Approval: [signature] Date: 8/1/6

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)

CADD FILE NAME: 05081-ROAD 8

50 25 0 50 100
SCALE FEET

SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

MORNINGSIDE HEIGHTS
FIFTH ADDITION

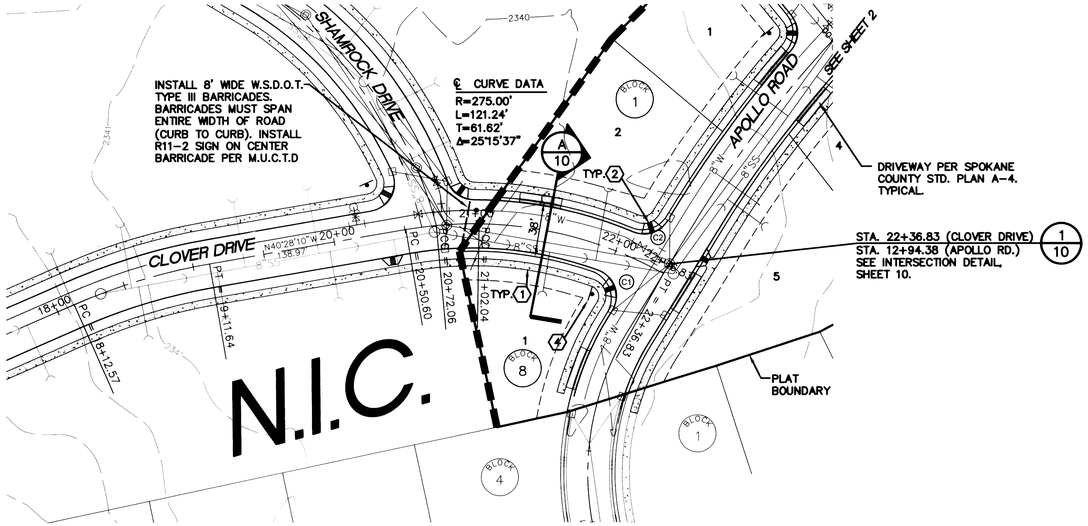
SELKIRK DRIVE
APOLLO ROAD TO DAYSTAR ROAD

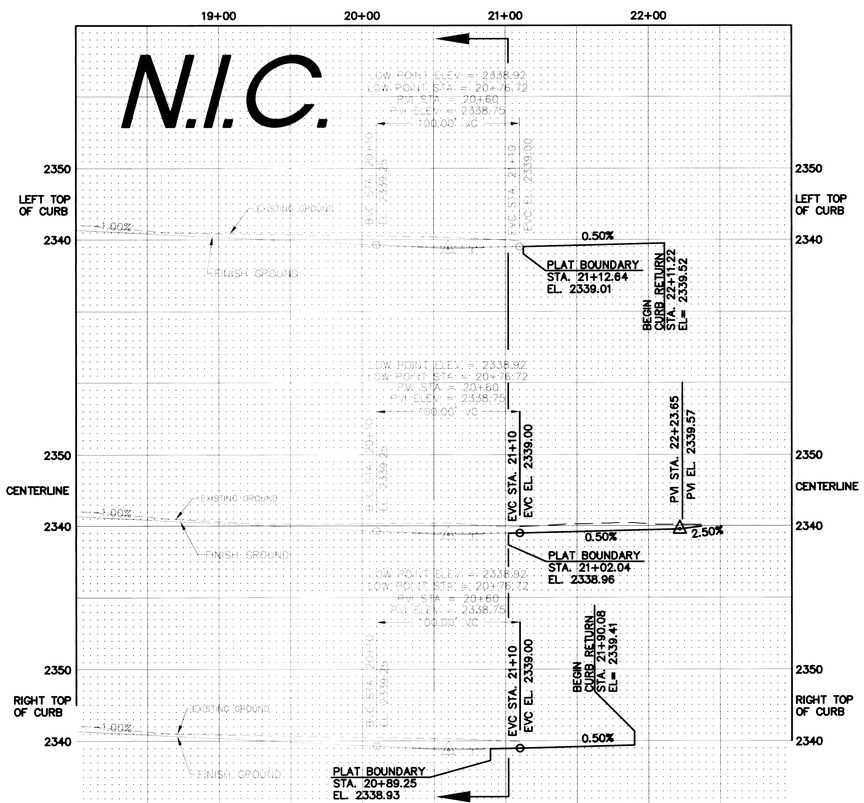
ROAD
SHEET 8 / 20

P-1962 England Drainage

SEC.30, T.25 N., R. 45 EAST, W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800-424-5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG





NORTH

CURVE TABLE AT FACE OF CURB

CURVE	RADIUS	LENGTH	DELTA
C1	20.00'	35.56'	101°51'27"
C2	20.00'	28.26'	80°56'41"

CONSTRUCTION NOTES

1. CONSTRUCT 5' WIDE SIDEWALK PER SPO. CO. STD. SHT. A-4.
2. CONSTRUCT CURB RAMP PER SPO. CO. STD. SHT. A-5.
3. NOT USED.
4. INSTALL ROAD NAME SIGN AND POST.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1962
DATE ACCEPTED: 8/2/06
ACCEPTANCE EXPIRES: 8/2/08
PROJECT LANE MILES PUBLIC: 0.66
PROJECT LANE MILES PRIVATE: —
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

No.	Date	By	Ckd.	Appr.	Revisions

Drawn: RIE, RPB — Date 05/1/06
Designed: BAN — 05/1/06
Checked: MAA — 06/20/06

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 7/25/06 — EXPIRES 03/10/07

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

Developer's Approval: Date: 8/1/6

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)
CADD FILE NAME: 05081-ROAD 9
50 25 0 50 100 — SCALE — FEET

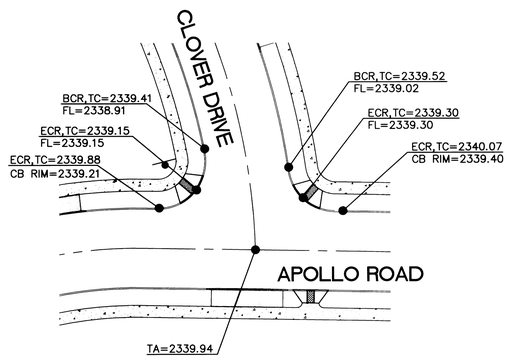
SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

MORNINGSIDE HEIGHTS
FIFTH ADDITION

CLOVER DRIVE
STA. 10+00 TO. APOLLO ROAD

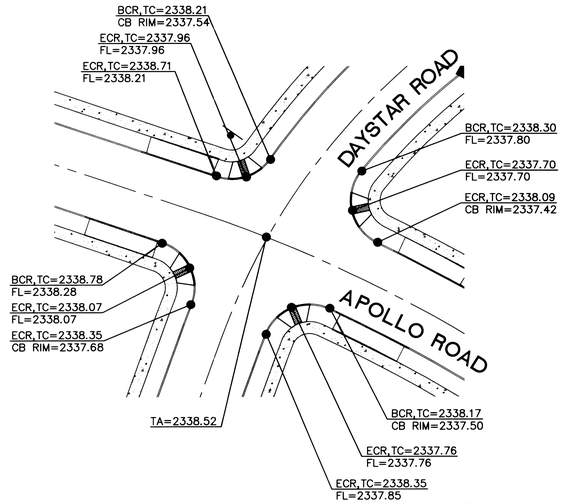
ROAD
SHEET 9 / 20

P.1962 Eng Road Drainage



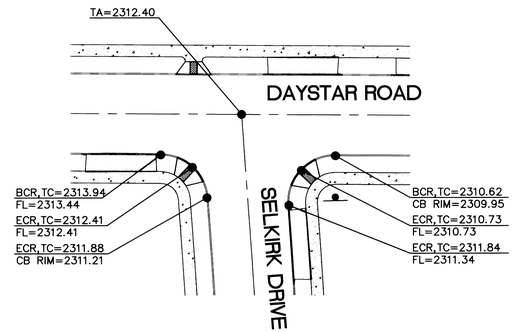
INTERSECTION – APOLLO ROAD / CLOVER DRIVE (1 / –)

SCALE: 1" = 30'



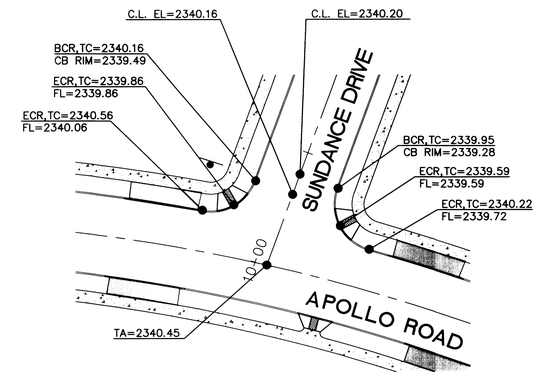
INTERSECTION – APOLLO ROAD / DAYSTAR ROAD (2 / –)

SCALE: 1" = 30'



INTERSECTION – DAYSTAR ROAD / SELKIRK DRIVE (3 / –)

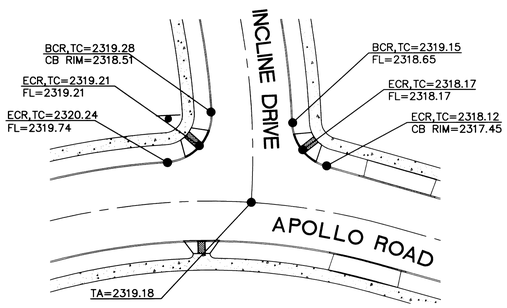
SCALE: 1" = 30'



INTERSECTION – APOLLO ROAD / SUNDANCE DRIVE (4 / –)

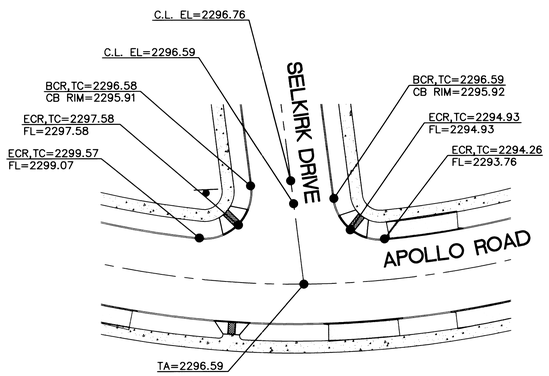
SCALE: 1" = 30'

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1962
DATE ACCEPTED: 8/3/06
ACCEPTANCE EXPIRES: 8/3/08
PROJECT LANE MILES PUBLIC: 0.66
PROJECT LANE MILES PRIVATE: —
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION



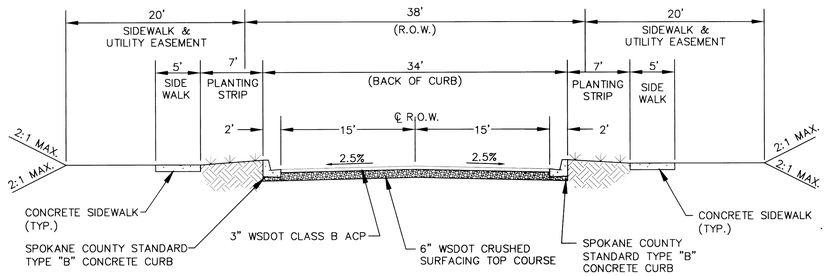
INTERSECTION – APOLLO ROAD / INCLINE DRIVE (5 / –)

SCALE: 1" = 30'



INTERSECTION – APOLLO ROAD / SELKIRK DRIVE (6 / –)

SCALE: 1" = 30'



TYPICAL ROAD SECTION (A / 2,3,4,5,6,7,8,9)

N.T.S.

No.	Date	By	Ckd.	Appr.	Revisions

		Date
Drawn:	DJJ	05/1/06
Designed:	BAN	05/1/06
Checked:	MAA	06/20/06

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 8/15/06 — EXPIRES 03/10/07

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

Developer's Approval: Richard Bah President Date: 8/1/6

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)

CADD FILE NAME: 05081-ROAD DET(10)

SCALE
HORIZ. 1" = 30'
VERT. 1" = 10'

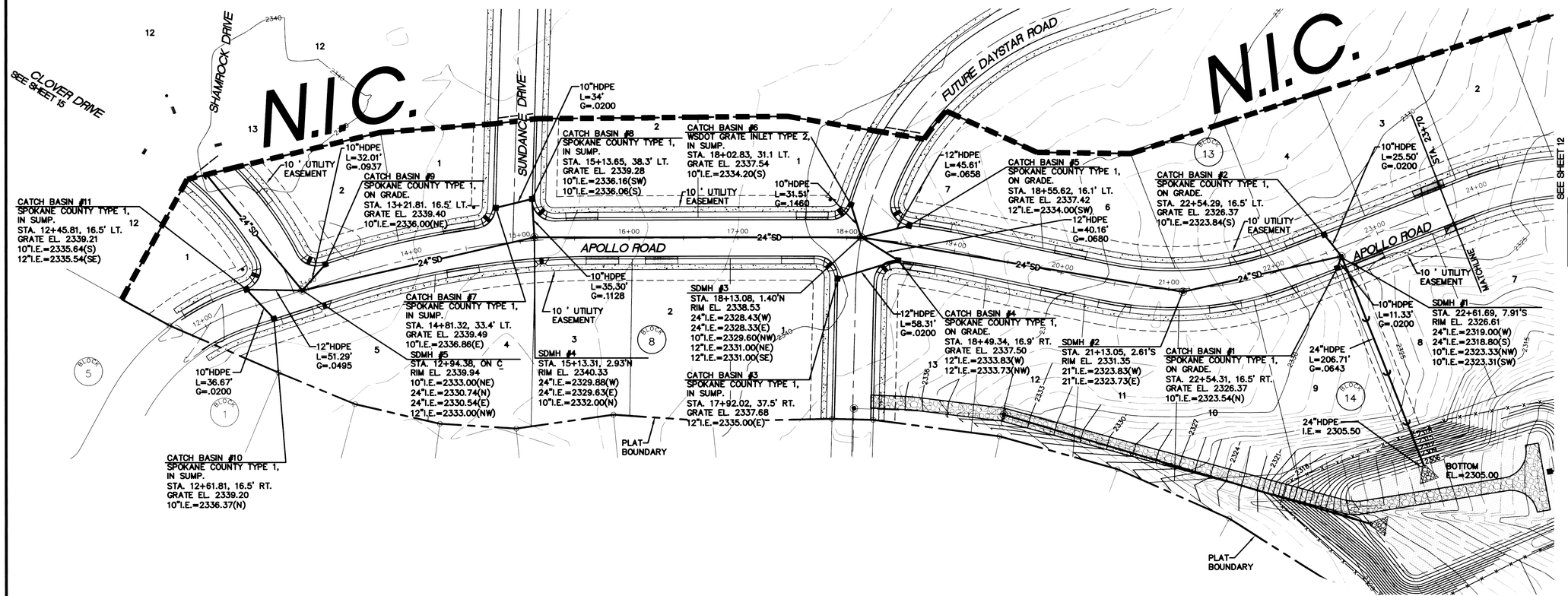
MORNINGSIDE HEIGHTS
FIFTH ADDITION

ROAD DETAILS

ROAD
SHEET 10 / 20

P-1962 Eng Prel Drainage

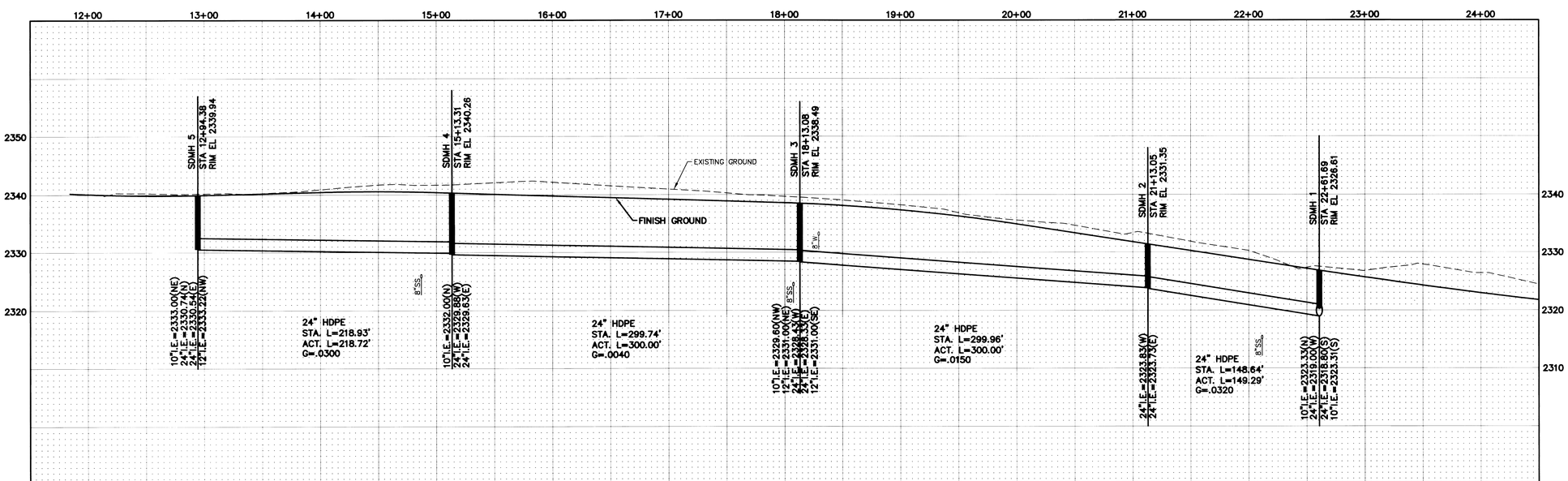
SEC.30, T.25 N., R. 45 EAST, W.M.



MANHOLE SCHEDULE		COORDINATES	
M.H. NO.	M.H. TYPE	NORTHING	EASTING
SD 1	III-60	5800.38	6665.41
SD 2	III-60	5815.93	6516.93
SD 3	I-60	5957.69	6252.55
SD 4	I-60	6053.47	5968.24
SD 5	I-60	6075.12	5750.60

NOTES:

1. SPOKANE COUNTY TYPE 1 CATCH BASIN, ON GRADE, PER SPOKANE COUNTY STD. PLAN B-4 WITH A TYPE 1 METAL FRAME PER STD. PLAN B-10 AND A TYPE 1 METAL GRATE PER STD. PLAN B-12.
2. SPOKANE COUNTY TYPE 1 CATCH BASIN, IN SUMP CONDITION, PER SPOKANE COUNTY STD. PLAN B-4 WITH A TYPE 2 METAL FRAME PER STD. PLAN B-11 AND A TYPE 3 METAL GRATE PER STANDARD PLAN B-14.
3. WSDOT TYPE 2 GRATE INLET, IN SUMP CONDITION PER WSDOT STD. PLAN B-4C. INLET TO BE INSTALLED WITH "NORMAL" ORIENTATION. FRAME AND VANED GRATES FOR TYPE 2 GRATE INLET PER WSDOT PLAN B-4D. ORIENT GRATES TO ACCOMMODATE FLOW FROM BOTH DIRECTIONS.
4. STORM DRAIN MANHOLE TYPE I-48 PER SPOKANE COUNTY STD. PLAN U-2.
5. STORM DRAIN MANHOLE TYPE III-48 PER SPOKANE COUNTY STD. PLAN U-5.
6. STORM DRAIN MANHOLE TYPE I-60 PER SPOKANE COUNTY STD. PLAN U-3.
7. STORM DRAIN MANHOLE TYPE III-60 PER SPOKANE COUNTY STD. PLAN U-6.



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1962
DATE ACCEPTED: 8/3/06
ACCEPTANCE EXPIRES: 8/3/08
PROJECT LANE MILES PUBLIC: 0.66
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NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800-424-5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG

No.	Date	By	Ckd.	Appr.	Revisions

		Date
Drawn:	RPB,DJJ	05/1/06
Designed:	SRS	05/1/06
Checked:	MAA	06/14/06

MARK A. AROKSON
STATE OF WASHINGTON
24681
REGISTERED PROFESSIONAL ENGINEER
Mark Arokson 7/25/06
EXPIRES 03/10/07

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8244

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

Developer's Approval: Richard D. Bloch President Date: 8/1/6

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)

CADD FILE NAME: 05081-STORM 3(11)

50 25 0 50 100
SCALE FEET

SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

MORNINGSIDE HEIGHTS
FIFTH ADDITION

APOLLO ROAD
STA. 11+84.26 TO STA. 24+00

STORM
SHEET
11
20

P-1962 Eng Bad Drainage

SEC.30, T.25 N., R. 45 EAST, W.M.

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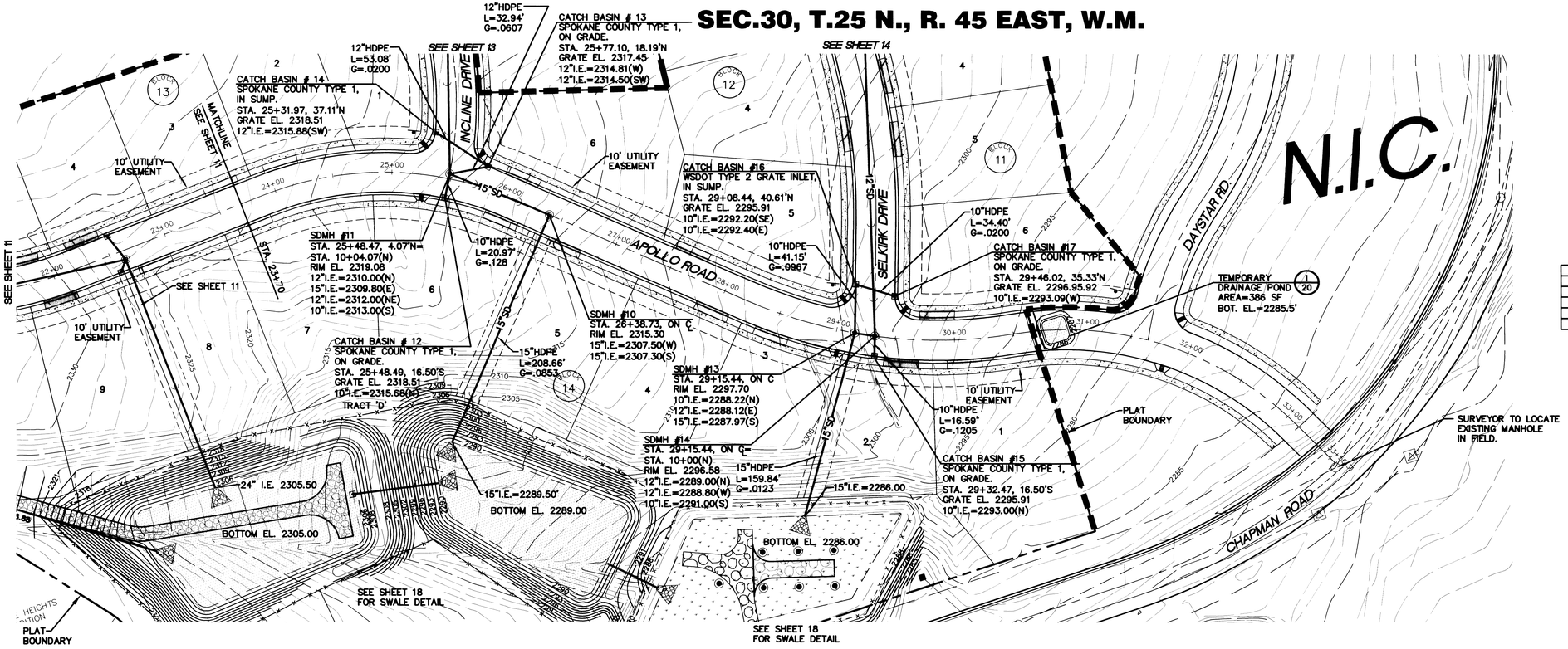
CALL TWO BUSINESS DAYS BEFORE YOU DIG



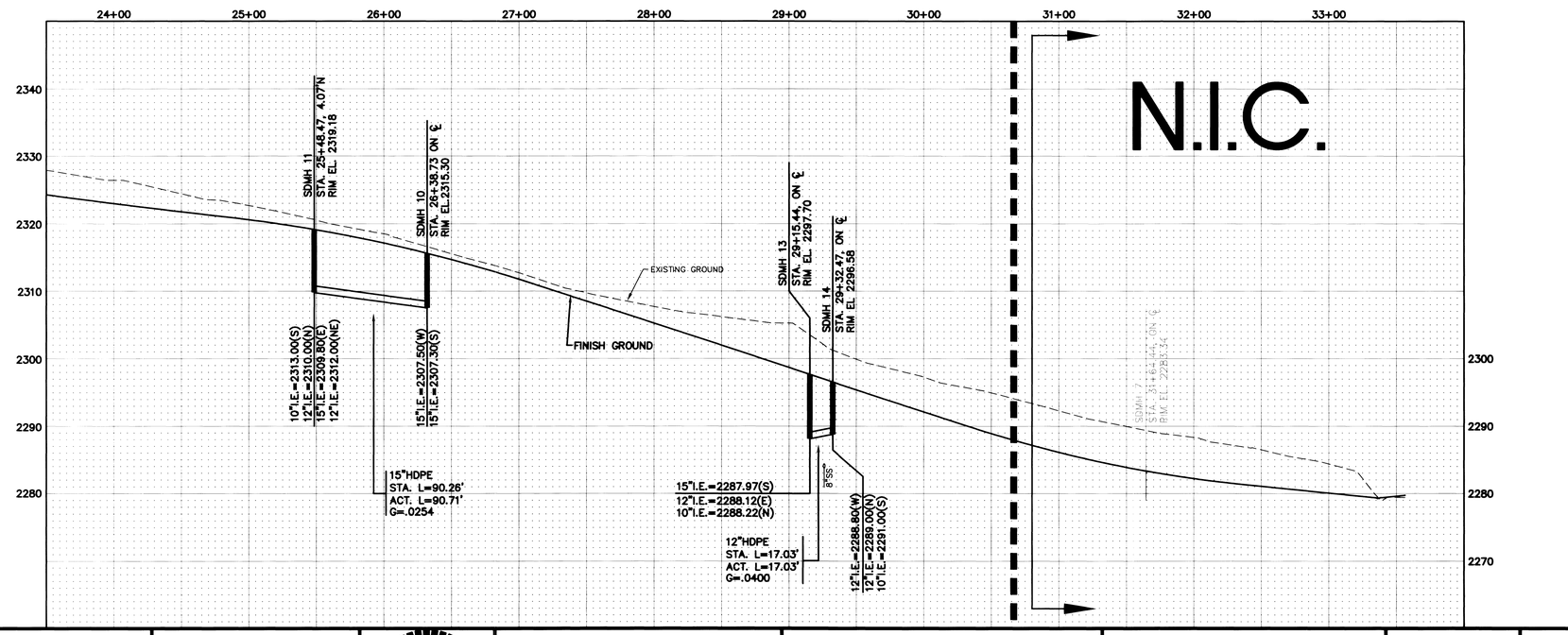
NORTH

MANHOLE SCHEDULE		COORDINATES	
M.H. NO.	M.H. TYPE	NORTHING	EASTING
SDMH 10	I-48	5722.34	7015.82
SDMH 11	I-60	5781.61	6947.15
SDMH 13	I-48	5545.71	7227.95
SDMH 14	I-48	5537.92	7243.09

NOTES:

1. SPOKANE COUNTY TYPE 1 CATCH BASIN, ON GRADE, PER SPOKANE COUNTY STD. PLAN B-4 WITH A TYPE 1 METAL FRAME PER STD. PLAN B-10 AND A TYPE 1 METAL GRATE PER STD. PLAN B-12.
2. SPOKANE COUNTY TYPE 1 CATCH BASIN, IN SUMP CONDITION, PER SPOKANE COUNTY STD. PLAN B-4 WITH A TYPE 2 METAL FRAME PER STD. PLAN B-11 AND A TYPE 3 METAL GRATE PER STANDARD PLAN B-14.
3. WSDOT TYPE 2 GRATE INLET, IN SUMP CONDITION PER WSDOT STD. PLAN B-4C. INLET TO BE INSTALLED WITH "NORMAL" ORIENTATION. FRAME AND VANED GRATES FOR TYPE 2 GRATE INLET PER WSDOT PLAN B-4D. ORIENT GRATES TO ACCOMMODATE FLOW FROM BOTH DIRECTIONS.
4. STORM DRAIN MANHOLE TYPE I-48 PER SPOKANE COUNTY STD. PLAN U-2.
5. STORM DRAIN MANHOLE TYPE III-48 PER SPOKANE COUNTY STD. PLAN U-5.
6. STORM DRAIN MANHOLE TYPE I-60 PER SPOKANE COUNTY STD. PLAN U-3.
7. STORM DRAIN MANHOLE TYPE III-60 PER SPOKANE COUNTY STD. PLAN U-6.

SPOKANE COUNTY ENGINEERING OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1962
DATE ACCEPTED: 8/2/06
ACCEPTANCE EXPIRES: 8/2/08
PROJECT LANE MILES PUBLIC: 0.66
PROJECT LANE MILES PRIVATE:
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION



No.	Date	By	Ckd.	Appr.	Revisions

Drawn: RPB,DJJ Date 05/1/06
Designed: BAN 05/1/06
Checked: MAA 06/14/06

MARK A. ARONSON, STATE OF WASHINGTON, 24681, REGISTERED PROFESSIONAL ENGINEER, 7/25/06, EXPIRES 03/10/07

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

Developer's Approval: Richard Stahn President Date: 8/1/06

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

VERTICAL DATUM: "X" IN SIDEWALK ⊗ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)

CADD FILE NAME: 05081-STORM 4(12)

50 25 0 50 100
SCALE FEET

SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

MORNINGSIDE HEIGHTS
FIFTH ADDITION

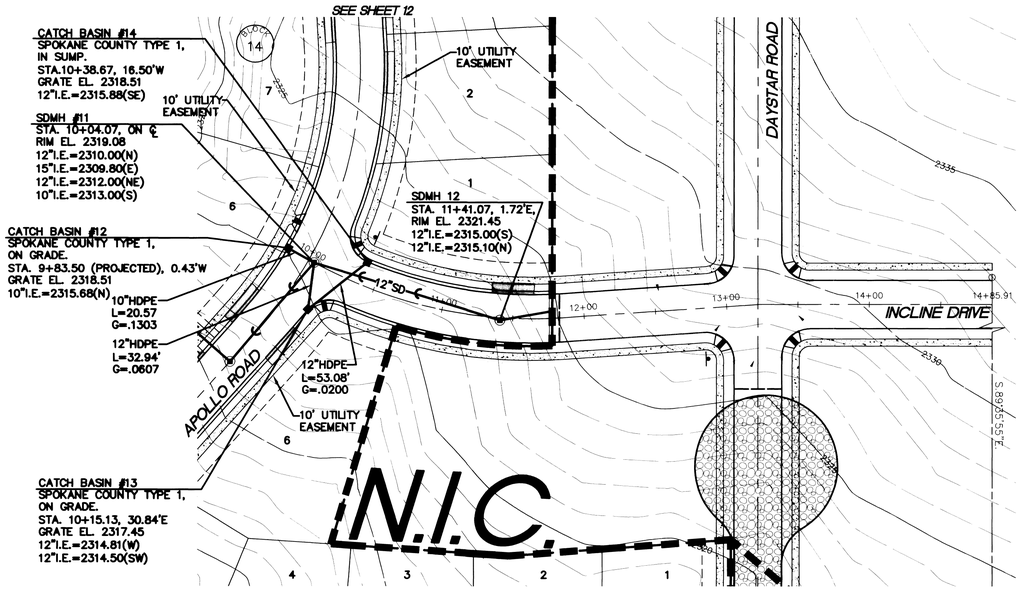
APOLLO ROAD
STA. 24+00 TO STA. 30+66.57

STORM SHEET 12 / 20

P-1962 Engineer Drawing

SEC.30, T.25 N., R. 45 EAST, W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800-424-5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG

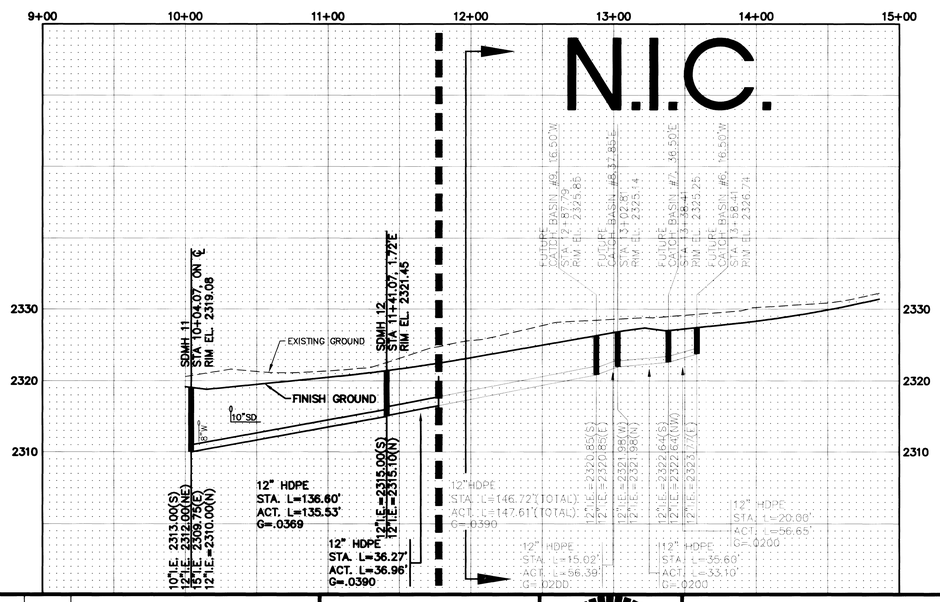


MANHOLE SCHEDULE		COORDINATES	
M.H. NO.	M.H. TYPE	NORTHING	EASTING
SDMH 11	I-60	5781.61	6947.15
SDMH 12	I-48	5911.57	6988.26

NOTES:

1. SPOKANE COUNTY TYPE 1 CATCH BASIN, ON GRADE, PER SPOKANE COUNTY STD. PLAN B-4 WITH A TYPE 1 METAL FRAME PER STD. PLAN B-10 AND A TYPE 1 METAL GRATE PER STD. PLAN B-12.
2. SPOKANE COUNTY TYPE 1 CATCH BASIN, IN SUMP CONDITION, PER SPOKANE COUNTY STD. PLAN B-4 WITH A TYPE 2 METAL FRAME PER STD. PLAN B-11 AND A TYPE 3 METAL GRATE PER STANDARD PLAN B-14.
3. WSDOT TYPE 2 GRATE INLET, IN SUMP CONDITION PER WSDOT STD. PLAN B-4C. INLET TO BE INSTALLED WITH "NORMAL" ORIENTATION. FRAME AND VANED GRATES FOR TYPE 2 GRATE INLET PER WSDOT PLAN B-4D. ORIENT GRATES TO ACCOMMODATE FLOW FROM BOTH DIRECTIONS.
4. STORM DRAIN MANHOLE TYPE I-48 PER SPOKANE COUNTY STD. PLAN U-2.
5. STORM DRAIN MANHOLE TYPE III-48 PER SPOKANE COUNTY STD. PLAN U-5.
6. STORM DRAIN MANHOLE TYPE I-60 PER SPOKANE COUNTY STD. PLAN U-3.
7. STORM DRAIN MANHOLE TYPE III-60 PER SPOKANE COUNTY STD. PLAN U-6.

SPOKANE COUNTY ENGINEER'S OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1962
DATE ACCEPTED: 8/3/06
ACCEPTANCE EXPIRES: 8/3/08
PROJECT LANE MILES PUBLIC: 0.66
PROJECT LANE MILES PRIVATE: ____
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILT" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION



No.	Date	By	Ckd.	Appr.	Revisions

		Date
Drawn:	RPB,MJW	05/1/06
Designed:	BAN	05/1/06
Checked:	MAA	06/14/06

MARK A. ARONSON, STATE OF WASHINGTON, 24681, REGISTERED PROFESSIONAL ENGINEER, 7/6/06
EXPIRES 03/10/07

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

Developer's Approval: Richard Hahn president Date: 8/1/6

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)

CADD FILE NAME: 05081-STORM 8(13)

50 25 0 50 100
SCALE FEET

SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

MORNINGSIDE HEIGHTS
FIFTH ADDITION

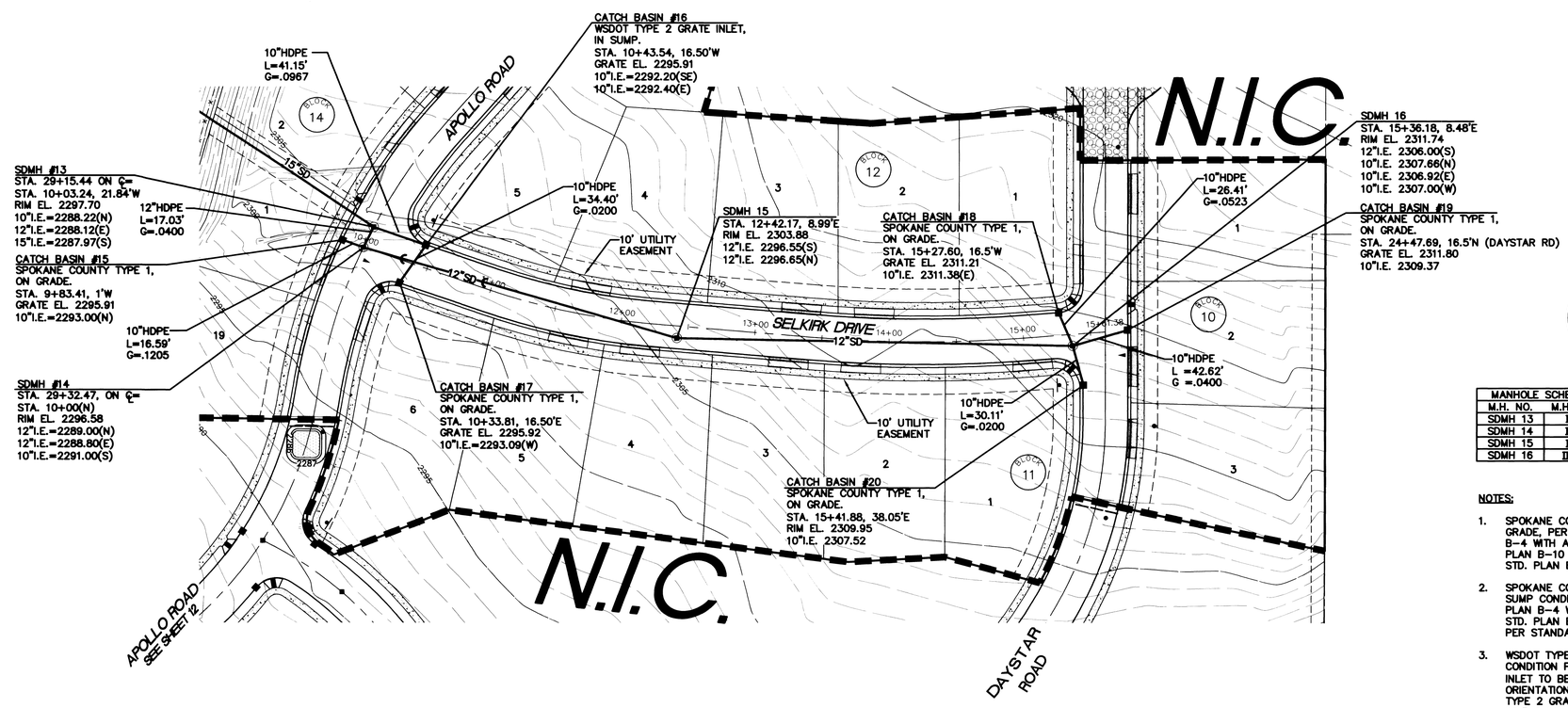
INCLINE DRIVE
STA. 9+83.50 TO STA. 14+85.91

STORM
SHEET 13 / 20

P-1962 Eng Rd Drainage

SEC.30, T.25 N., R. 45 EAST, W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800-424-5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG



MANHOLE SCHEDULE		COORDINATES	
M.H. NO.	M.H. TYPE	NORTHING	EASTING
SDMH 13	I-48	5545.71	7227.95
SDMH 14	I-48	5537.92	7243.09
SDMH 15	I-48	5770.64	7312.26
SDMH 16	III-48	6065.39	7319.87

NOTES:

1. SPOKANE COUNTY TYPE 1 CATCH BASIN, ON GRADE, PER SPOKANE COUNTY STD. PLAN B-4 WITH A TYPE 1 METAL FRAME PER STD. PLAN B-10 AND A TYPE 1 METAL GRATE PER STD. PLAN B-12.
2. SPOKANE COUNTY TYPE 1 CATCH BASIN, IN SUMP CONDITION, PER SPOKANE COUNTY STD. PLAN B-4 WITH A TYPE 2 METAL FRAME PER STD. PLAN B-11 AND A TYPE 3 METAL GRATE PER STANDARD PLAN B-14.
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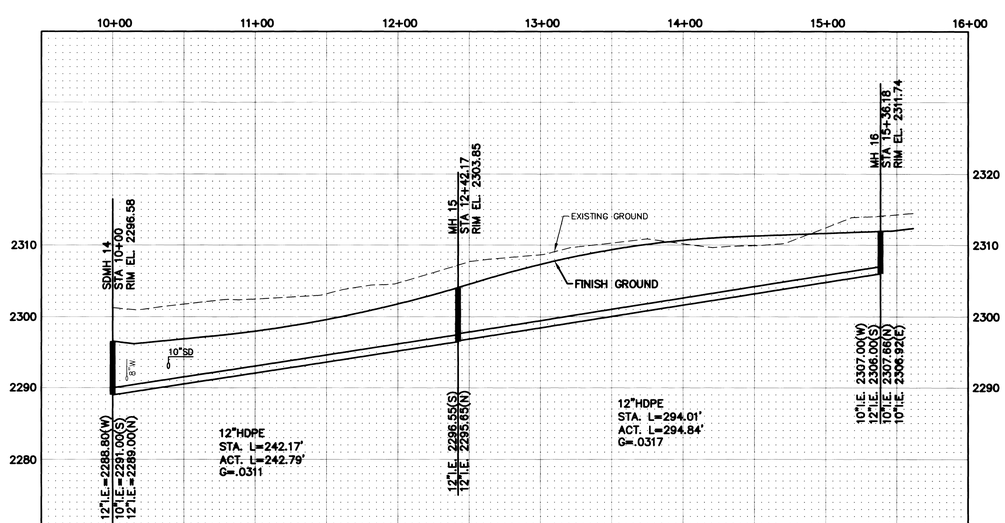
4. STORM DRAIN MANHOLE TYPE I-48 PER SPOKANE COUNTY STD. PLAN U-2.
5. STORM DRAIN MANHOLE TYPE III-48 PER SPOKANE COUNTY STD. PLAN U-5.
6. STORM DRAIN MANHOLE TYPE I-60 PER SPOKANE COUNTY STD. PLAN U-3.
7. STORM DRAIN MANHOLE TYPE III-60 PER SPOKANE COUNTY STD. PLAN U-6.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1962
DATE ACCEPTED: 8/3/06
ACCEPTANCE EXPIRES: 8/3/08
PROJECT LANE MILES PUBLIC: 0.66
PROJECT LANE MILES PRIVATE: ____
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND THE ASSUMPTION OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIREMENTS (509) 477-3600
NOTIFY PERMIT ENGINEER TWO BUSINESS DAYS PRIOR TO CONSTRUCTION



No.	Date	By	Ckd.	Appr.	Revisions

Drawn:	RPB	05/1/06
Designed:	SRS	05/1/06
Checked:	MAA	06/14/06

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 7/25/06 — EXPIRES 03/10/07

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 326-3371 FAX (509) 326-6224

Developer's Approval: Richard D. Allen president Date: 8/1/06

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)

CADD FILE NAME: 0581-STORM9(14)

50 25 0 50 100
SCALE FEET

SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

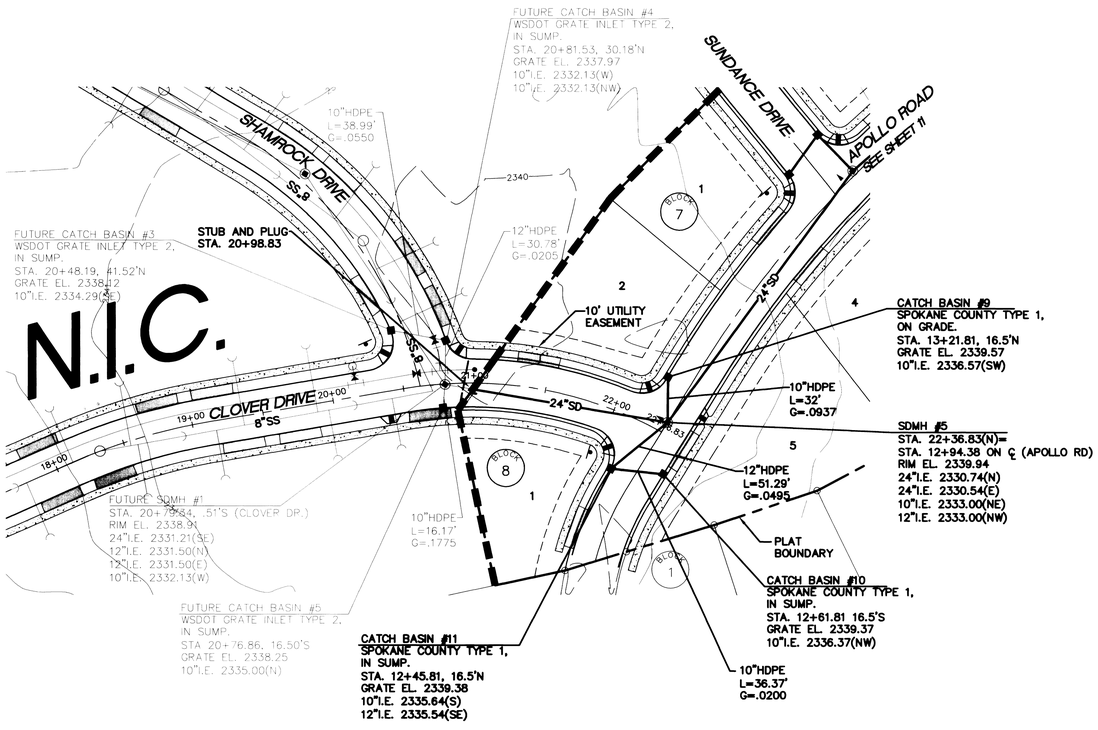
MORNINGSIDE HEIGHTS
FIFTH ADDITION

SELKIRK DRIVE
APOLLO ROAD TO DAYSTAR ROAD

STORM SHEET 14 / 20

P-1962 Engineered Drawings

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800-424-5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG



MANHOLE SCHEDULE		COORDINATES	
M.H. NO.	M.H. TYPE	NORTHING	EASTING
SDMH 5	I-60	6232.75	5690.16

NOTES:

1. SPOKANE COUNTY TYPE 1 CATCH BASIN, ON GRADE, PER SPOKANE COUNTY STD. PLAN B-4 WITH A TYPE 1 METAL FRAME PER STD. PLAN B-10 AND A TYPE 1 METAL GRATE PER STD. PLAN B-12.
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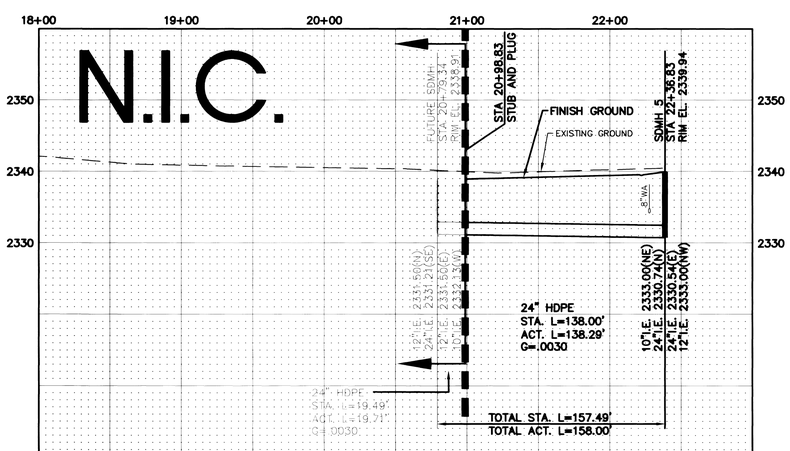
4. STORM DRAIN MANHOLE TYPE I-48 PER SPOKANE COUNTY STD. PLAN U-2.
5. STORM DRAIN MANHOLE TYPE III-48 PER SPOKANE COUNTY STD. PLAN U-5.
6. STORM DRAIN MANHOLE TYPE I-60 PER SPOKANE COUNTY STD. PLAN U-3.
7. STORM DRAIN MANHOLE TYPE III-60 PER SPOKANE COUNTY STD. PLAN U-6.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1962
DATE ACCEPTED: 8/2/06
ACCEPTANCE EXPIRES: 8/2/08
PROJECT LANE MILES PUBLIC: 0.66
PROJECT LANE MILES PRIVATE:
CONSTRUCTION DOCUMENTATION AS DEFINED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRE[illegible] (509) 477-3600
NOTIFY PERMIT EN[illegible] DAYS PRIOR TO C[illegible]



No.	Date	By	Ckd.	Appr.	Revisions

		Date
Drawn:	RIE	05/1/06
Designed:	BAN	05/1/06
Checked:	MAA	06/14/06

MAX A. ARONSON
STATE OF WASHINGTON
24681
REGISTERED PROFESSIONAL ENGINEER
8/25/06
EXPIRES 03/10/07

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

Developer's Approval: Richard J. Bahn President Date: 8/1/06

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)

CADD FILE NAME: 05081-STORM 10(15)

50 25 0 50 100
SCALE FEET

SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

MORNINGSIDE HEIGHTS
FIFTH ADDITION

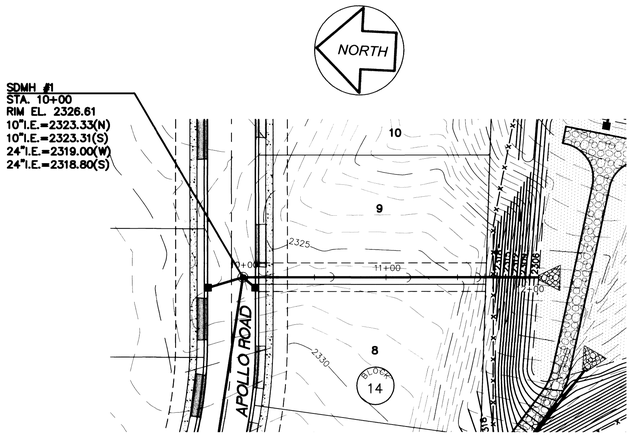
CLOVER DRIVE
STA. 18+00 TO STA. 22+38.65

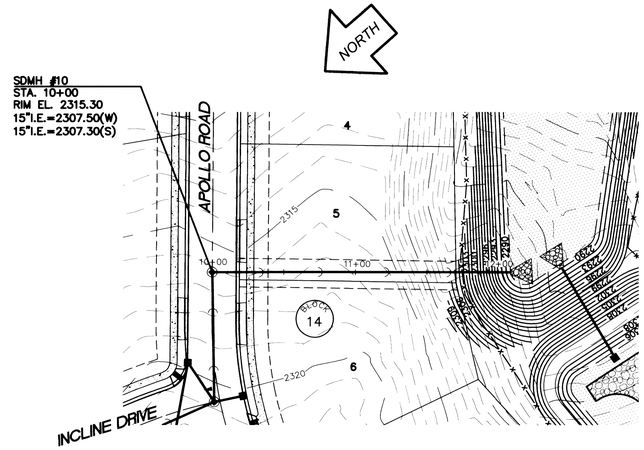
STORM SHEET 15 / 20

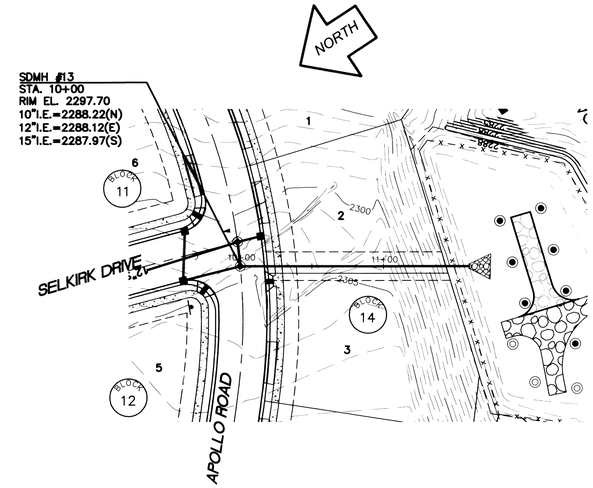
P.1962 Eng Road Drainage

SEC.30, T.25 N., R. 45 EAST, W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800-424-5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG



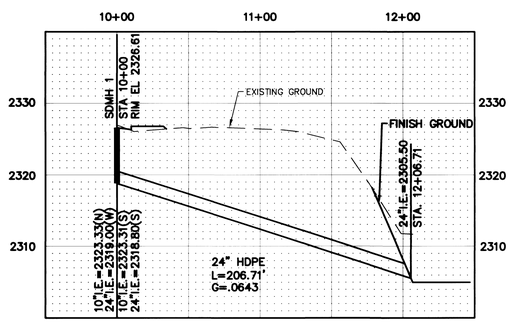




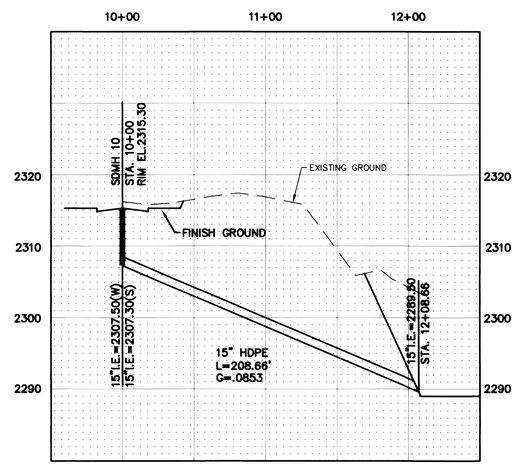
MANHOLE SCHEDULE		COORDINATES	
M.H. NO.	M.H. TYPE	NORTHING	EASTING
SDMH 1	III-60	5800.38	6665.41
SDMH 10	I-48	5722.34	7015.82
SDMH 13	I-48	5545.71	7227.95

NOTE:

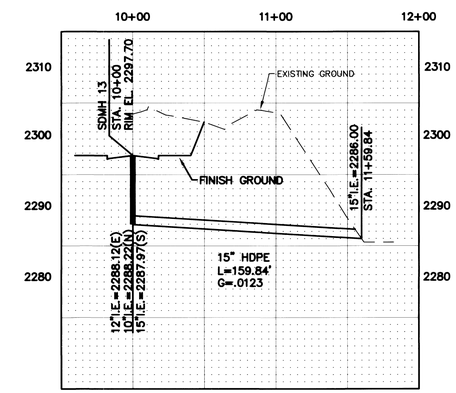
1. STORM DRAIN MANHOLE TYPE I-60 PER SPOKANE COUNTY STD. PLAN U-3.
2. STORM DRAIN MANHOLE TYPE I-48 PER SPOKANE COUNTY STD. PLAN U-2.



SWALE 2C



SWALE 2B



SWALE 2A

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1962
DATE ACCEPTED: 8/2/06
ACCEPTANCE EXPIRES: 8/3/08
PROJECT LANE MILES PUBLIC: 2.66
PROJECT LANE MILES PRIVATE: ____
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILT" [illegible] REQUIRED PRIOR TO COUNTY ACCEPTANCE AND [illegible] REQUIREMENT OF THE ROADS AND DRAINAGE FACILI[illegible] MAINTENANCE.
PERMIT REQUIR[illegible] (509) 477-3600
NOTIFY PERMIT ENGI[illegible] BUSINESS DAYS PRIOR TO CONSTRUCTION

No.	Date	By	Ckd.	Appr.	Revisions

		Date
Drawn:	KWE	05/1/06
Designed:	SRS	05/1/06
Checked:	MAA	06/14/06

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 7/25/06 — EXPIRES 03/10/07

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

Developer's Approval: Richard P. Kahn president Date: 8/1/6

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)

CADD FILE NAME: 0581-STORM16

50 25 0 50 100
SCALE FEET

SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

MORNINGSIDE HEIGHTS
FIFTH ADDITION

STORM OUTLETS
TO SWALES

STORM
SHEET
16
20

P. 1962 Eng Lead Drainage

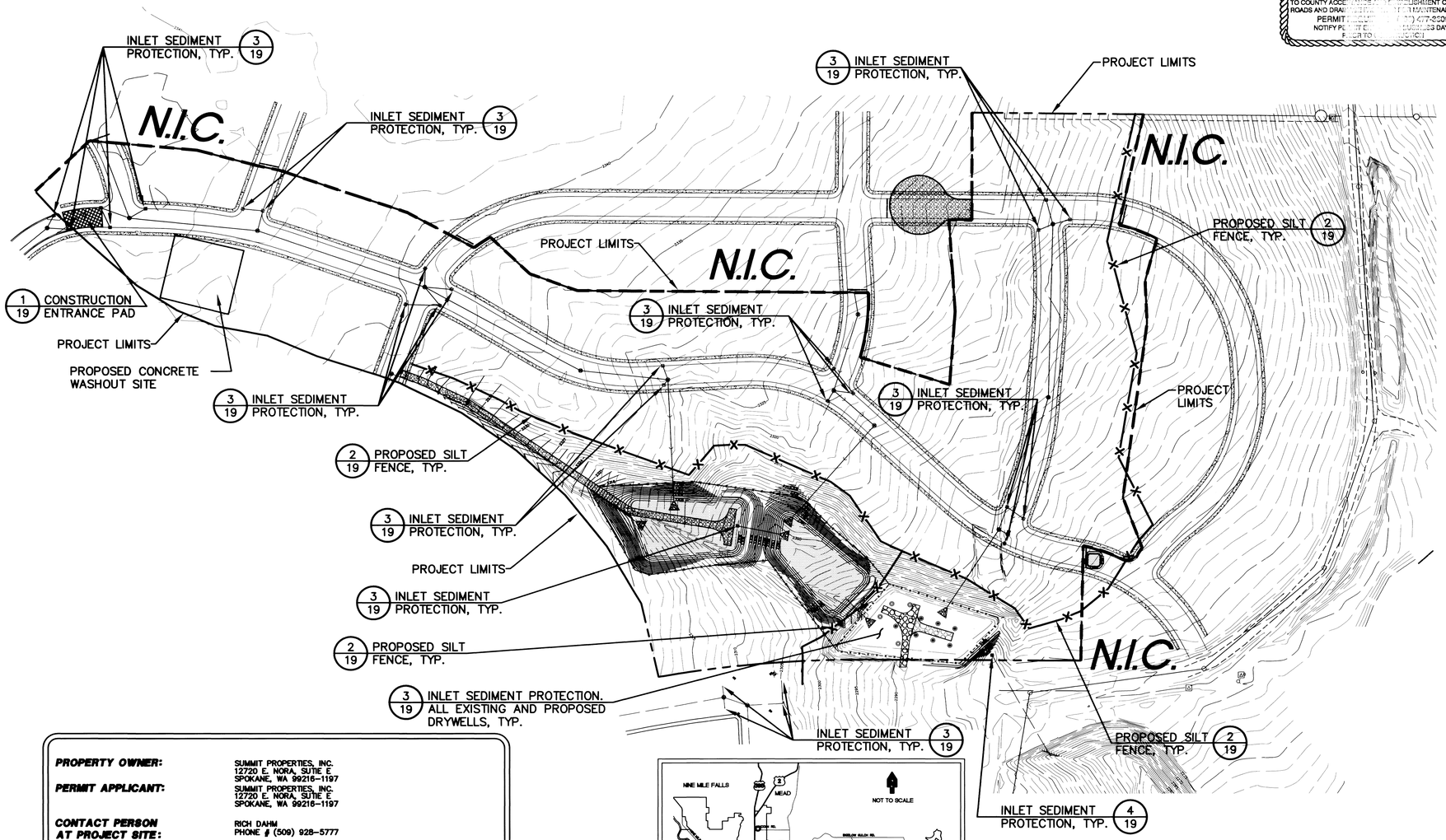
SEC.30, T.25 N., R. 45 EAST, W.M.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1962
DATE ACCEPTED: 8/3/06
ACCEPTANCE EXPIRES: 8/3/08
PROJECT LANE MILES PUBLIC: 0.66
PROJECT LANE MILES PRIVATE: ____
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS MUST BE SUBMITTED PRIOR TO COUNTY ACCEPTANCE FOR MAINTENANCE SUBSEQUENT OF THE ROADS AND DRAINAGE FOR MAINTENANCE.
PERMIT [illegible] (509) 477-3600
NOTIFY PERMIT TECH [illegible] WORKING DAYS PRIOR TO [illegible]

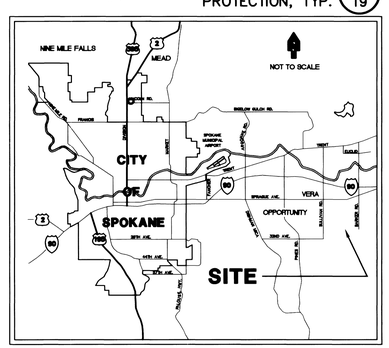
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800-424-5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG

NORTH

CONTOUR INTERVAL = 1 FOOT



PROPERTY OWNER:	SUMMIT PROPERTIES, INC. 12720 E. NORA, SUITE E SPOKANE, WA 99216-1197
PERMIT APPLICANT:	SUMMIT PROPERTIES, INC. 12720 E. NORA, SUITE E SPOKANE, WA 99216-1197
CONTACT PERSON AT PROJECT SITE:	RICH DAHM PHONE # (509) 928-5777
PROJECT ADDRESS:	MORNINGSIDE HEIGHTS DRIVE AND APOLLO ROAD
PROJECT DESCRIPTION:	CONTINUATION OF SINGLE FAMILY RESIDENTIAL DEVELOPMENT INCLUDING PRIVATE ASPHALT ROADS, SEWER AND WATER SYSTEMS
DESCRIPTION OF ESC MEASURES:	ESC MEASURES INCLUDE SILT FENCES, GRAVEL CONSTRUCTION ENTRANCES, AND CONCRETE WASHOUT AREA.
DESCRIPTION OF EXISTING SITE VEGETATION:	THE SITE IS COMPOSED OF FLAT TO ROLLING PASTURE LAND INCLUDING AREAS OF MEADOW GRASS.
LIST OF ON-SITE SOILS:	BsB– BONG AND PHOEBE LOAMY SANDS MoC– MARBLE LOAMY SAND PsA– PHOEBE SANDY LOAM HvC– HESSELTINE VERY ROCKY COMPLEX
LEGAL DESCRIPTION:	SEE PLAT MAP.



VICINITY MAP

EROSION CONTROL NOTES:

1. AN EROSION/SEDIMENT CONTROL (ESC) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE ESC PLAN, AND CONSTRUCTION, MAINTENANCE AND UPGRADING OF THE ESC FACILITIES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY SPOKANE COUNTY OR UNTIL VEGETATION IS ESTABLISHED THROUGHOUT THE SITE AND ACCEPTED BY SPOKANE COUNTY, WHICHEVER IS LATER.
2. APPROVAL OF THE ESC PLAN DOES NOT CONSTITUTE APPROVAL OF ANY OF THE PROPOSED ROAD, STORM DRAINAGE, GRADING OR UTILITY DESIGN ELEMENTS SHOWN ON THE ESC PLAN.
3. THE EROSION/SEDIMENTATION CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATE SITE CONDITIONS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THESE ESC MEASURES DAILY AND SHALL MAINTAIN AND UPGRADE THESE MEASURES AS NECESSARY TO PREVENT SEDIMENT–LADEN WATER FROM EITHER FLOWING OFF THE SITE OR INTO NEW/EXISTING STORM DRAINAGE FACILITIES, SUCH AS DRYWELLS, CULVERTS, OR GRAVEL GALLERIES.
4. THE CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR INSTALLING ROCK CONSTRUCTION ENTRIES AT ANY AND ALL LOCATIONS USED TO ENTER OR EXIT THE PROJECT SITE. ACCESS FOR CONSTRUCTION VEHICLES SHOULD BE LIMITED TO ONE ROUTE WHENEVER POSSIBLE. CONTROL FACILITIES WILL BE MAINTAINED WHILE CONSTRUCTION IS IN PROGRESS, MOVED WHEN NECESSARY AND REMOVED WHEN THE SITE IS PAVED. SEE TEMPORARY GRAVEL CONSTRUCTION EXIT/ENTRANCE, SHEET 19.
5. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DUE TO WIND AND RUNOFF. CONTRACTOR IS RESPONSIBLE FOR SUPPRESSION OF DUST IN CONFORMANCE WITH SCAPCA REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL FACILITIES SHOWN AS A MINIMUM.
6. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO UNFORESEEN PROBLEMS OR IF THE PLAN DOES NOT FUNCTION AS INTENDED. THE INTENT IS TO KEEP SEDIMENT ON THE PROJECT SITE AND NOT ALLOW IT TO REACH ADJACENT PROPERTIES, WATER BODIES, AND PUBLIC OR PRIVATE ROADS.
7. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL CATCH BASIN AND DRYWELL GRATES DURING CONSTRUCTION AND PERIODICALLY CLEAN DEBRIS COLLECTED ON FABRIC. IF THE FILTER FABRIC, FOR ANY REASON, IS REMOVED DURING CONSTRUCTION, IT IS THE CONTRACTORS RESPONSIBILITY TO CLEAN OUT THE CATCH BASIN OR DRYWELL AND REPLACE THE FABRIC.
8. GEOTEXTILE FABRIC IS TO BE PLACED ON THE RIMS OF DRYWELLS, CATCH BASINS AND INLETS UNTIL SUCH TIME THE VEGETATION ON THE SITE IS ESTABLISHED AND THE THREAT OF SEDIMENT DEPOSITION INTO THE DRAINAGE SYSTEM IS MITIGATED.
9. THE CONTRACTOR SHALL DESIGNATE AND POST A LOCATION FOR A SLURRY PIT WHERE CONCRETE TRUCKS AND EQUIPMENT CAN BE WASHED OUT. SLURRY PITS SHALL NOT BE LOCATED IN NOR DRAIN INTO A SWALE, DRAINAGE AREA, STORM WATER FACILITY OR WATER BODY, EITHER EXISTING OR PROPOSED. HARDENED WASH CONCRETE SHALL BE BROKEN UP AND REMOVED FROM THE SITE.
10. CONTRACTOR SHALL IDENTIFY A LOCATION FOR STORAGE/STOCKPILE AREAS (WITHIN THE PROPOSED ESC PLAN BOUNDARIES) FOR ANY SOIL, EARTHEN AND LANDSCAPE MATERIAL THAT IS TO BE USED ON–SITE.
11. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMP's DURING ALL LAND–DISTURBING ACTIVITIES. CONTRACTOR SHALL INSPECT ALL EROSION CONTROL STRUCTURES AFTER EVERY RAINFALL EVENT, REMOVE DEBRIS AND SEDIMENT AND MAKE NEEDED REPAIRS.
12. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF–SITE AND CAN BE PERMANENTLY STABILIZED.
13. CONTRACTOR SHALL FIELD IDENTIFY AND DELINEATE ALL CLEARING LIMITS, SENSITIVE/CRITICAL AREAS, BUFFERS, TREES TO BE PRESERVED AND DRAINAGE COURSES.
14. CONSTRUCTION OF ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF OTHER LAND DISTURBING ACTIVITIES.
15. ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT RECEIVING PAVEMENT, GRAVEL, OR LANDSCAPE TREATMENT SHALL BE STABILIZED BY APPLICATION OF A HYDROSEED MIXTURE OF DRYLAND GRASS SEED.
16. EROSION CONTROL STRUCTURES BELOW SODDED OR RIP RAPPED AREAS MAY BE REMOVED ONCE SOD AND FINAL LANDSCAPING IS IN PLACE. EROSION CONTROL STRUCTURES BELOW SEEDED AREAS MUST REMAIN IN PLACE UNTIL THE ENTIRE AREA HAS ESTABLISHED A MATURE COVERING OF HEALTHY VEGETATION. EROSION CONTROL IN PROPOSED PAVED AREAS SHALL REMAIN IN PLACE UNTIL PAVEMENT IS COMPLETE.
17. ALL TEMPORARY SEDIMENT CONTROL BMP's SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY BMP's ARE NO LONGER NEEDED.
18. CONTRACTOR SHALL CONTROL ALL ON–SITE POLLUTANTS OTHER THAN SEDIMENT IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORM WATER OR GROUNDWATER.
19. THIS PLAN IS ONLY TO BE USED FOR INSTALLATION OF EROSION CONTROL FACILITIES. DO NOT USE THIS PLAN FOR GRADING OR STORM SEWER CONSTRUCTION.

✱ I, _____ CERTIFY THAT THIS PLAN MEETS THE ESC PLAN REQUIREMENTS AS LISTED IN CHAPTER 4.5 OF THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT.

No.	Date	By	Ckd.	Appr.	Revisions

		Date
Drawn:	DJJ	05/1/06
Designed:	BAN	05/1/06
Checked:	MAA	06/14/06

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 3/28/06 — EXPIRES 03/10/07

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

Developer's Approval: Richard D. John President Date: 8/1/06

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)

CADD FILE NAME: 05081-ERO(17)

SCALE
HORIZ. 1" = 100'
VERT. N/A

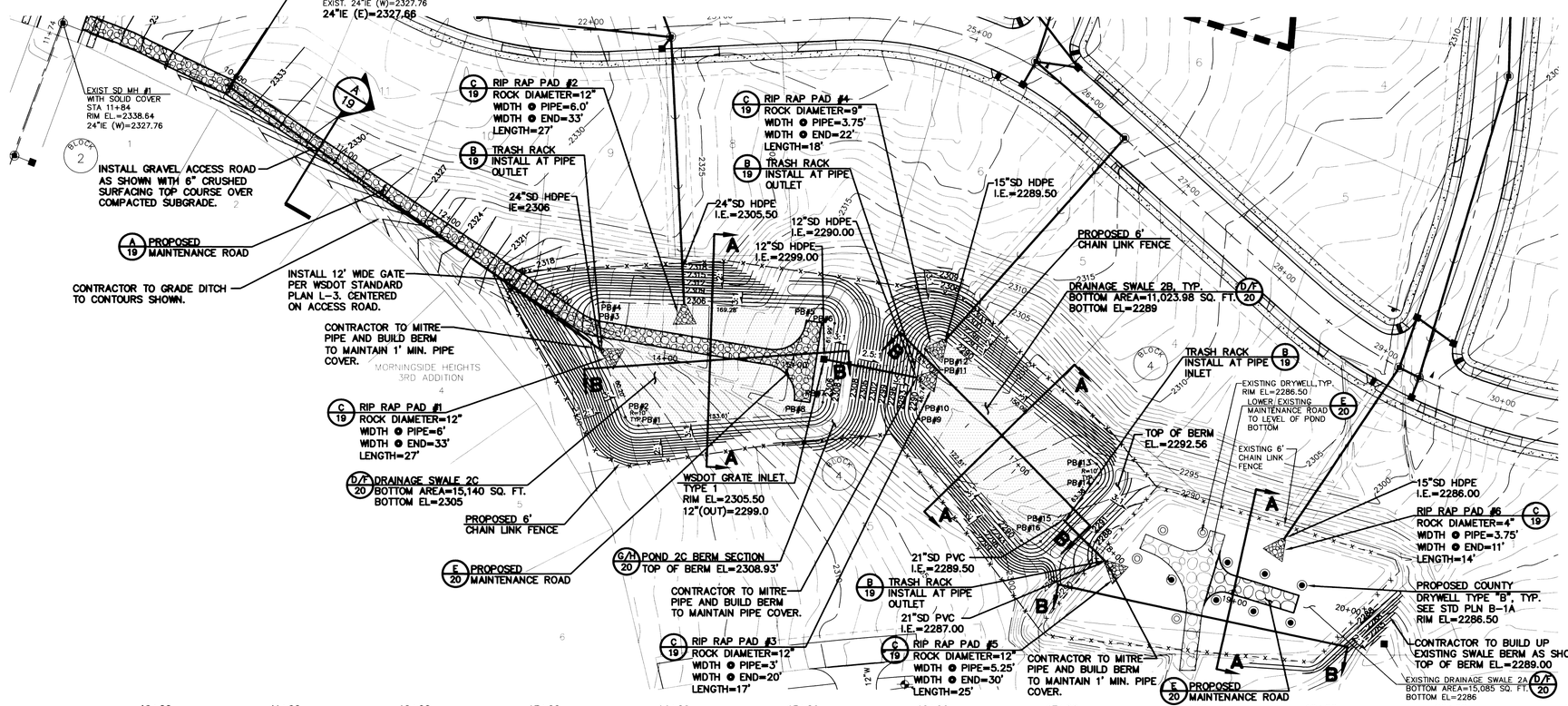
MORNINGSIDE HEIGHTS
FIFTH ADDITION

EROSION CONTROL PLAN

STORM
SHEET 17/20

P-1962 Eng Road Drainage

SEC.30, T.25 N., R. 45 EAST, W.M.



UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800-424-5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG

DRAINAGE NOTES:

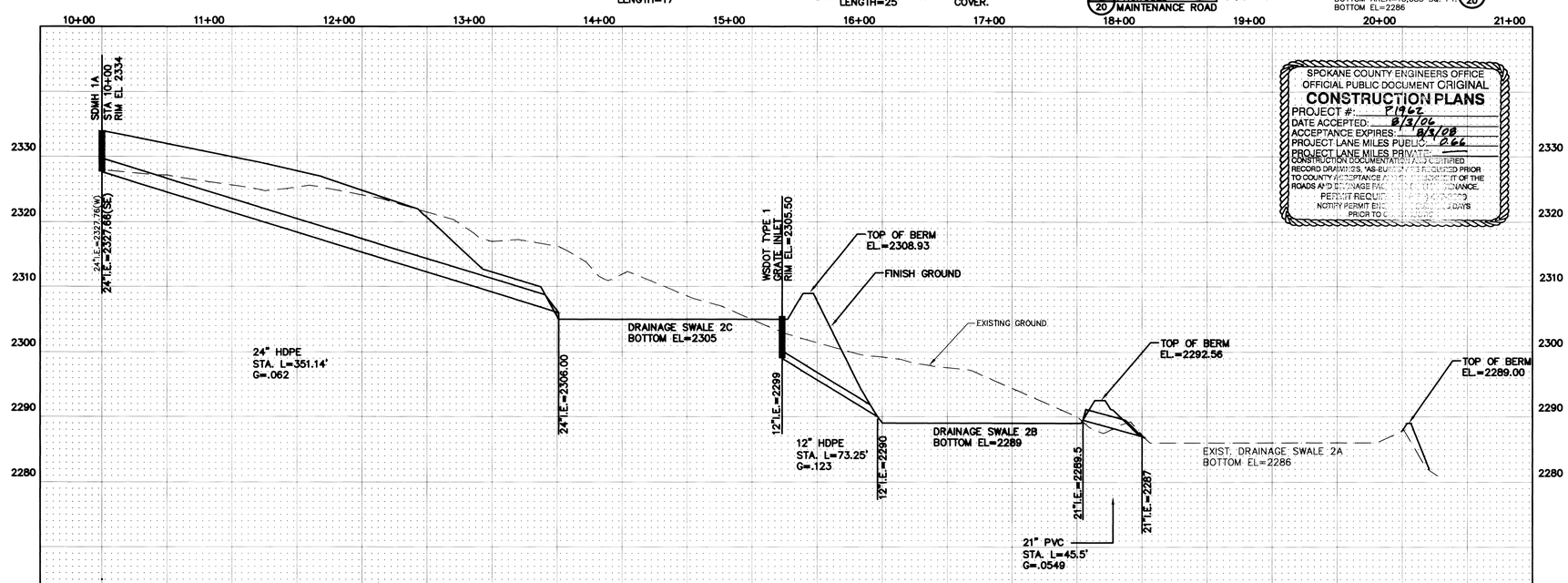
1. CONTRACTOR SHALL INSTALL FILTER FABRIC OVER CATCH BASIN GRATES DURING CONSTRUCTION AND PERIODICALLY CLEAN DEBRIS COLLECTED ON FABRIC. IF THE FILTER FABRIC, FOR ANY REASON, IS REMOVED DURING CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN OUT THE CATCH BASIN AND REPLACE FILTER FABRIC.
2. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION" 1995, AND AS AMENDED.
3. 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.
4. THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE APPROVED ROAD AND DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
5. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER AND THE SPOKANE COUNTY ENGINEER'S OFFICE.
6. MANHOLE TYPE I-48 IS PER SPOKANE COUNTY STANDARD PLAN NO. U-2 WITH RING AND COVER PER SPOKANE COUNTY STANDARD PLAN U-14.
7. GRATE INLET TYPE 2 IS PER WSDOT STANDARD PLAN B-4c.
8. ALL STORM SEWER PIPE AND FITTINGS SHALL BE HIGH DENSITY POLY ETHYLENE (HDPE) AND MEET THE REQUIREMENTS OF AASHTO M 294 TYPE S OR D.
9. FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC (AMOCO 4545 OR APPROVED EQUIVALENT) BETWEEN THE WASHED DRAIN ROCK AND THE NATIVE SOIL.
10. THE FLOOR OF A GRASSED PERCOLATION AREA (GPA) SWALE INCLUDES THE LEVEL PORTION OF THE FLOOR 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. THE ENGINEER SHALL PROVIDE A WRITTEN STATEMENT WHICH VERIFIES THAT ALL GPA SWALES CONFORM TO THIS REQUIREMENT. THIS WRITTEN STATEMENT SHALL BE SUBMITTED TO THE SPOKANE COUNTY ENGINEER'S OFFICE PRIOR TO INSTALLING FINISHED LANDSCAPING/SOD AND PRIOR TO FINAL ACCEPTANCE. THE SWALE FLOOR MATERIAL SHALL BE INSTALLED TO A NATIVE SOIL STRATUM WHICH ALSO MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR.
11. DRYLAND GRASS SEED MIXTURE:
    30% COVAR SHEEP FESCUE
    30% DURAR HARD FESCUE
    20% CANADA BLUEGRASS
    20% CREEPING RED FESCUE

SEEDING RATE PER 1,000 SQUARE FEET=3 LBS. PER 1 ACRE=50-60 LBS.

MANHOLE SCHEDULE		COORDINATES	
M.H. NO.	M.H. TYPE	NORTHING	EASTING
SDMH 1A	III-60	5761.16	6324.99
WSDOT GRATE INLET	TYPE-1	5551.84	6783.66

NOTE:

1. WSDOT TYPE 1 GRATE INLET PER WSDOT STD. PLAN B-4b W/ TYPE "A" METAL GRATE.
2. STORM DRAIN MANHOLE TYPE III-60 PER SPOKANE COUNTY STD. PLAN U-6.



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1962
DATE ACCEPTED: 8/3/06
ACCEPTANCE EXPIRES: 8/3/08
PROJECT LANE MILES PUBLIC: 1.066
PROJECT LANE MILES PRIVATE:
CONSTRUCTION DOCUMENTATION MUST BE CERTIFIED RECORD DRAWINGS "AS-BUILT" PLANS SUBMITTED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES MAINTENANCE.
PERMIT REQUIRED
NOTIFY PERMIT ENGINEER 2 WORKING DAYS PRIOR TO CONSTRUCTION

ITEM	NORTHING	EASTING
PB#1	5500.07	6640.43
PB#2	5506.70	6630.28
PB#3	5582.29	6603.48
PB#4	5595.63	6613.18
PB#5	5591.03	6782.39
PB#6	5579.55	6792.01
PB#7	5518.24	6782.86
PB#8	5509.74	6773.69
PB#9	5505.39	6857.16
PB#10	5513.30	6854.92
PB#11	5559.54	6861.82
PB#12	5565.82	6878.02
PB#13	5471.07	6994.43
PB#14	5456.31	6995.25
PB#15	5411.09	6950.84
PB#16	5411.66	6936.06

ABBREVIATIONS
PB=POND BOTTOM

No.	Date	By	Ckd.	Appr.	Revisions

Drawn: RPB Date 05/1/06
Designed: BAN 05/1/06
Checked: MAA 06/14/06

MARK A. ARONSON, STATE OF WASHINGTON, 24681, REGISTERED PROFESSIONAL ENGINEER, 7/25/06
EXPIRES 03/10/07

Taylor Engineering, Inc.
Civil Design and Land Planning
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Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

Developer's Approval: Richard D. Wah President Date: 8/1/6

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)
CADD FILE NAME: 05081-DETSWALE(18)
50 25 0 50 100
SCALE FEET

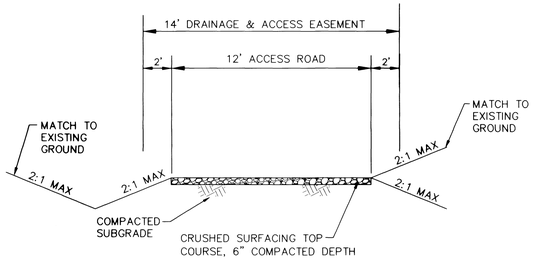
SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

MORNINGSIDE HEIGHTS
FIFTH ADDITION

DETENTION SWALE PLAN

STORM
SHEET 18 / 20

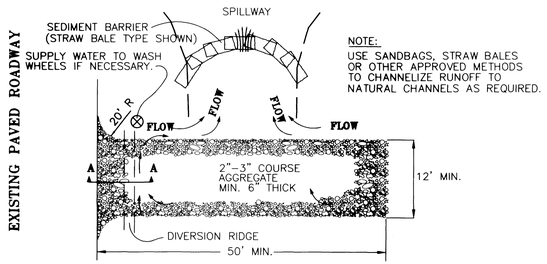
P-1962 Eng Road Drawing



A/18 TYPICAL ACCESS ROAD SECTION

NOT TO SCALE

SECTION A-A



NOTE:
USE SANDBAGS, STRAW BALES OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO NATURAL CHANNELS AS REQUIRED.

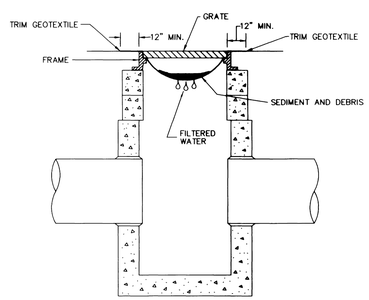
PLAN

NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO EXIST. ASPHALT ROADWAYS.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABLIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

1/17 TEMPORARY GRAVEL CONSTRUCTION EXIT/ENTRANCE

NOT TO SCALE

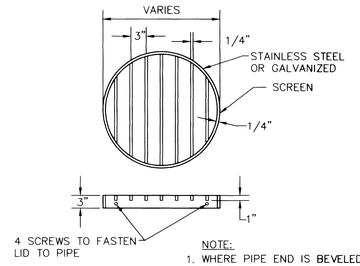


CROSS SECTION
NOT TO SCALE

NOTE:
1. PERFORM MAINTENANCE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 8-01.3(15).

3/17 STORM DRAIN INLET PROTECTION TYPE 1

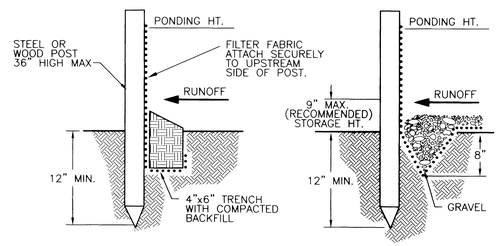
NOT TO SCALE



NOTE:
1. WHERE PIPE END IS BEVELED, TRASH RACK SHALL CONFORM TO FIGURE 39 OF THE SPOKANE CO. GUIDLINES FOR STORMWATER MANAGEMENT.

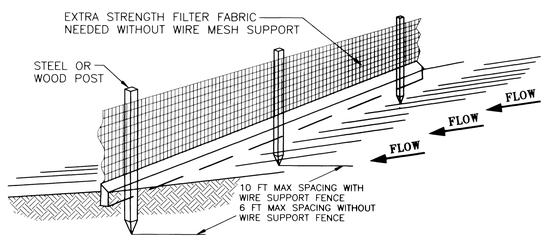
B/18 TRASH RACK

NOT TO SCALE



STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

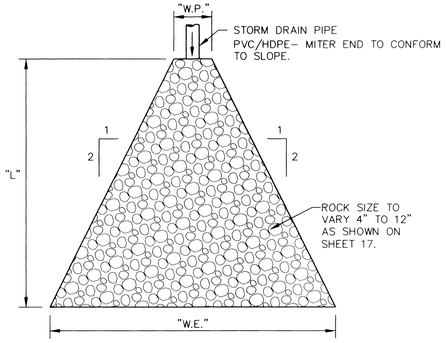
ALTERNATE DETAIL
TRENCH WITH GRAVEL



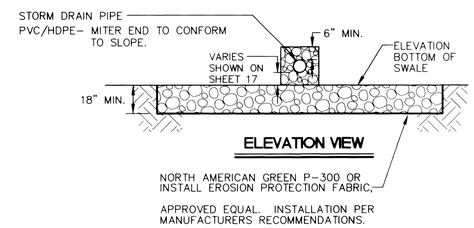
NOTE:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

2/17 SILT FENCE DETAIL

NOT TO SCALE



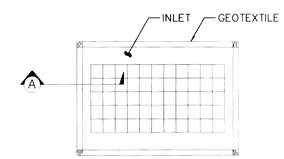
PLAN VIEW



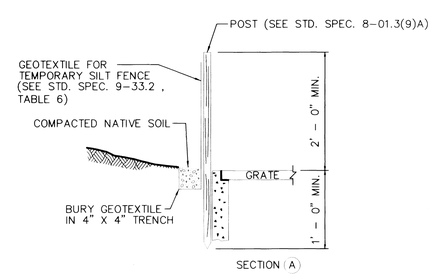
ELEVATION VIEW

C/18 RIP RAP PAD

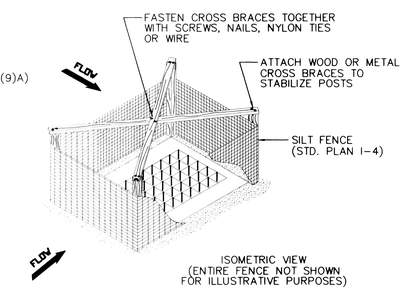
NOT TO SCALE



PLAN VIEW
(CROSS BRACES NOT SHOWN)



SECTION (A)



ISOMETRIC VIEW
(ENTIRE FENCE NOT SHOWN FOR ILLUSTRATIVE PURPOSES)

NOTES

1. PREFABRICATED UNITS MAY BE USED IN LIEU OF THE DESIGN SHOWN ON THIS PLAN UPON APPROVAL OF THE ENGINEER.
2. STRUCTURE SHALL BE CONSTRUCTED SUCH THAT GEOTEXTILE MATERIAL SHALL BE FASTENED TO POSTS CREATING A SEAMLESS JOINT.
3. ENSURE THAT PONDING HEIGHT OF WATER DOES NOT CAUSE FLOODING ON ADJACENT ROADWAYS OR PRIVATE PROPERTY.
4. PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATION 8-01.3(15).

4/17 INLET SEDIMENT PROTECTION TYPE 2

NOT TO SCALE
W.S.D.O.T. STANDARD PLAN I-6

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1962
DATE ACCEPTED: 8/7/06
ACCEPTANCE EXPIRES: 8/7/08
PROJECT LANE MILES PUBLIC: 1.266
PROJECT LANE MILES PRIVATE:
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED (509) 477-3200
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

No.	Date	By	Ckd.	Appr.	Revisions

Drawn: DJJ	Date 05/1/06	
Designed: BAN	05/1/06	
Checked: MAA	06/14/06	

MARK A. ARONSON, STATE OF WASHINGTON, 24681, REGISTERED PROFESSIONAL ENGINEER, 7/25/06
EXPIRES 03/10/07

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

Developer's Approval: Richard O'Dale President Date: 8/1/06

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)

CADD FILE NAME: 05081-STORM DET(19)

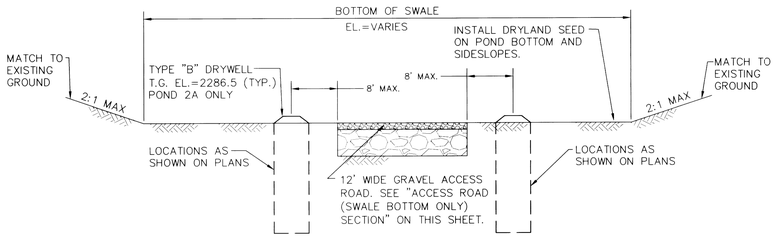
SCALE
HORIZ. N/A
VERT. N/A

MORNINGSIDE HEIGHTS
FIFTH ADDITION

DETENTION SWALE AND EROSION CONTROL DETAILS

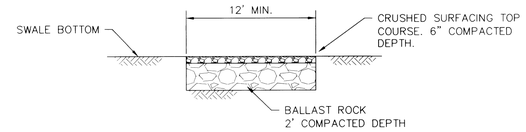
STORM
SHEET 19 / 20

P-1962 Engineered Drawings



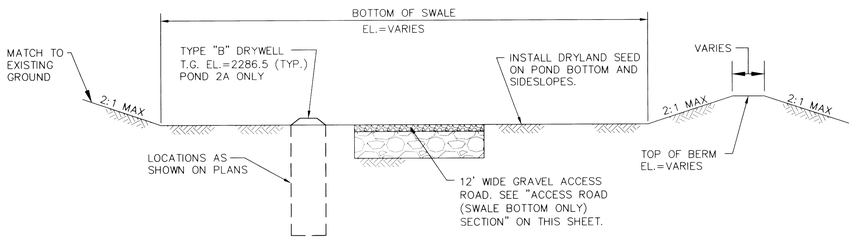
D/18 **TYPICAL DRAINAGE SWALE SECTION A-A**

NOT TO SCALE



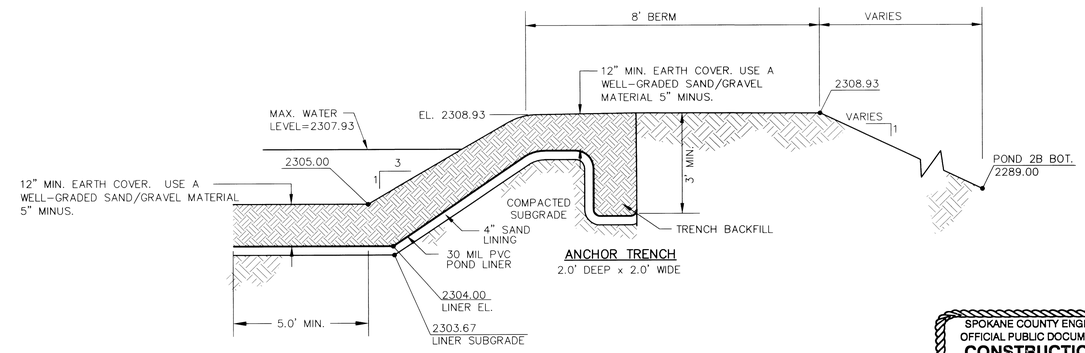
E/18 **ACCESS ROAD (SWALE BOTTOM ONLY) SECTION**

NOT TO SCALE



F/18 **TYPICAL DRAINAGE SWALE SECTION B-B**

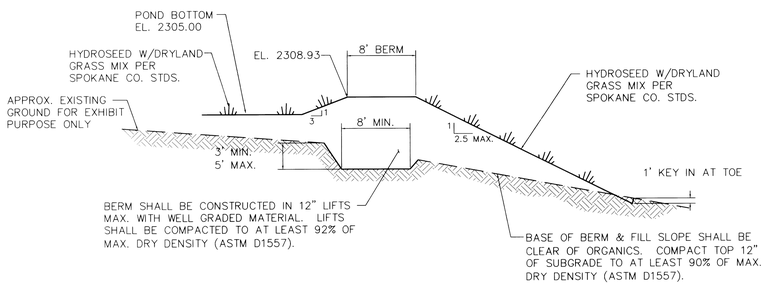
NOT TO SCALE



G/18 **BERM SECTION AT POND 2C**

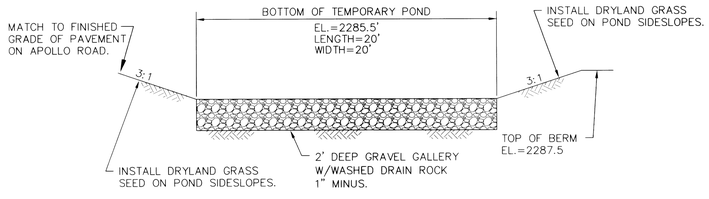
NOT TO SCALE

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-19162
DATE ACCEPTED: 8/15/06
ACCEPTANCE EXPIRES: 8/15/08
PROJECT LANE MILES PUBLIC: 1.66
PROJECT LANE MILES PRIVATE:
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3300
NOTIFY PERMIT ENGINEER 48 BUSINESS DAYS PRIOR TO CONSTRUCTION



H/18 **POND 2C BERM SECTION**

NOT TO SCALE



I/12 **TEMPORARY DRAINAGE POND**

NOT TO SCALE

No.	Date	By	Ckd.	Appr.	Revisions

		Date
Drawn:	DJJ	05/1/06
Designed:	BAN	05/1/06
Checked:	MAA	06/14/06

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 7/15/06 — EXPIRES 03/10/07

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8223

Developer's Approval: Richard Mc President Date: 8/1/6

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)

CADD FILE NAME: 05081-STORM POND DET(20)

SCALE
HORIZ. N/A
VERT. N/A

MORNINGSIDE HEIGHTS
FIFTH ADDITION

POND DETAILS

STORM
SHEET 20 / 20

P-19162 Erickson Drainage