CHAPMAN ROAD

ROAD PAVING PACKAGE

SPOKANE COUNTY, WASHINGTON

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

SCHEDULE OF DRAWINGS

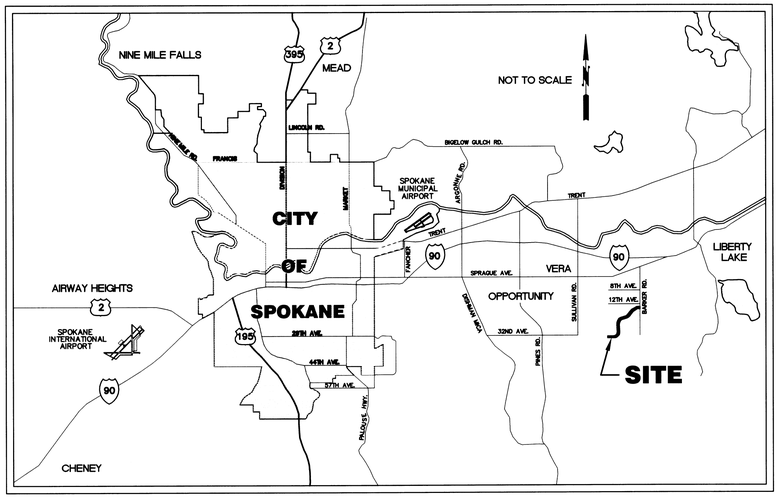
SHEET NO. DESCRIPTION

GENERAL

1 ..... COVER SHEET

ROAD (PAVING PACKAGE)

2 ..... STA. 46+74.50 TO STA. 58+00
3 ..... STA. 58+00 TO STA. 71+00
4 ..... STA. 71+00 TO STA. 82+00
5 ..... STA. 82+00 TO STA. 94+45.38
6 ..... DETAIL SHEET
7 ..... ROADSIDE SWALE DETAILS
8 ..... ROADSIDE SWALE DETAILS, CONT.
9 ..... POND DETAIL SHEET
10 STORM DRAIN PLAN + PROFILE



LOCATION MAP

LEGEND

	EXISTING LOT LINE		NOT IN CONTRACT LINE(N.I.C.)
2353	EXISTING CONTOUR		PROPOSED PLAT BOUNDARY
	EASEMENT LINE		PROPOSED LOT LINES
BT	EXISTING BURIED TELEPHONE		PROPOSED CURB & GUTTER
G	EXISTING BURIED GAS PIPELINE		PROPOSED SIDEWALK
OE	EXISTING OVERHEAD ELECTRICAL		PROPOSED WATER LINE PLUG
X	EXISTING FENCE		PROPOSED DRAINAGE FLOW
W	EXISTING WATER LINE	W	PROPOSED WATER LINE
SS	EXISTING SEWER LINE	SS	PROPOSED SANITARY SEWER
SD	EXISTING STORM DRAIN LINE	SD	PROPOSED STORM DRAIN LINE
	EXISTING WATER VALVE	2160	FINISH CONTOUR
	EXISTING WATER LINE FITTING (TYP.)	2300	FINISH GRADE ELEVATION
	EXISTING FIRE HYDRANT		PROPOSED WATER VALVE
	EXISTING WATER METER AND SERVICE		PROPOSED CONCRETE THRUST BLOCK
	EXISTING SIGN		PROPOSED WATER FITTING (TYP.)
	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
(N.I.C.)	NOT IN CONTRACT		PROPOSED DRYWELL
		MON.	MONUMENT
			APPROX. LIMITS OF ROAD SIDE SLOPE GRADING

GENERAL NOTES:

1. ALL MATERIALS AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY ROAD STANDARDS", JANUARY 2010 AS AMENDED, AND PER THE "2012 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 811 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. ALL PROPOSED ROADWAY AREAS SHALL BE STRIPPED 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.
11. 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 15% BY WEIGHT PASSING THE #200 SIEVE. STRUCTURAL FILL SHALL BE PLACED IN MAX. 8 INCH LIFTS WITHIN 2% OF OPTIMUM MOISTURE AND COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR.
12. ROADWAY CONSTRUCTION SHALL CONFORM TO SPECIFICATION TITLE "CHAPMAN ROAD EXTENSION – 2013, CEMENT TREATED BASE".
13. 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.
14. 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.
15. ALL FILL IN AREAS OUTSIDE OF PAVEMENT SHALL BE COMPACTED IN MAXIMUM 8" LIFTS TO 92% OF MAXIMUM ASTM D 1557 DRY DENSITY.
16. ONSITE GRADING SHALL BE IN ACCORDANCE WITH THE APPROVED GRADING PLAN AND ESC PLAN. ANY IMPORT OR EXPORT OF MATERIAL SHALL BE FROM A PREAPPROVED SOURCE/DESTINATION AND COORDINATED WITH THE SPOKANE COUNTY DEPARTMENT OF BUILDING AND PLANNING AT 477-3675. GRADING ON THIS SITE OR ANY OTHER SITE MUST COMPLY WITH ALL DEVELOPMENT REGULATIONS INCLUDING, BUT NOT LIMITED TO, GRADING PERMITS, SEPA REVIEW, TIMBER HARVEST PERMITS, CRITICAL AREAS, FLOODPLAINS, DESIGNATED DRAINAGEWAYS, ETC.
17. THERE IS AN EXISTING GRAVEL ROAD PROVIDING ACCESS TO A RESIDENCE NEAR STA. 59+30 AND TO THE EXISTING SANITARY SEWER SYSTEM. CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENCE DURING CONSTRUCTION. ANY DISTURBANCE TO THE EXISTING DRIVEWAY SHALL BE REPLACED WITH 6" COMPACTED DEPTH OF CRUSHED SURFACING TOP COURSE. PROVIDE CSTC TRANSITION FROM BACK OF CURB TO EXISTING DRIVEWAY.

EROSION CONTROL NOTES:

THE FOLLOWING ESC STANDARD PLAN NOTES ORIGINATE FROM SECTION 9.4.3. THESE NOTES ARE AN OVERALL SET; USE ONLY WHAT APPLIES TO THE GIVEN PROJECT.

1. THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL PROBLEMS:
   (A) CLEAR AND GRUB SUFFICIENTLY FOR INSTALLATION OF TEMPORARY ESC BMPS;
   (B) INSTALL TEMPORARY ESC BMPS, CONSTRUCTING SEDIMENT TRAPPING BMPS AS ONE OF THE FIRST STEPS PRIOR TO GRADING;
   (C) CLEAR, GRUB AND ROUGH GRADE FOR ROADS, TEMPORARY ACCESS POINTS AND UTILITY LOCATIONS;
   (D) STABILIZE ROADWAY APPROACHES AND TEMPORARY ACCESS POINTS WITH THE APPROPRIATE CONSTRUCTION ENTRY BMP;
   (E) CLEAR, GRUB AND GRADE INDIVIDUAL LOTS OR GROUPS OF LOTS;
   (F) TEMPORARILY STABILIZE, THROUGH RE-VEGETATION OR OTHER APPROPRIATE BMPS, LOTS OR GROUPS OF LOTS IN SITUATIONS WHERE SUBSTANTIAL CUT OR FILL SLOPES ARE A RESULT OF THE SITE GRADING;
   (G) CONSTRUCT ROADS, BUILDINGS, PERMANENT STORMWATER FACILITIES (I.E. INLETS, PONDS, UIC FACILITIES, ETC.);
   (H) PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZING THE APPROPRIATE BMPS;
   (I) INSTALL PERMANENT ESC CONTROLS, WHEN APPLICABLE; AND,
   (J) REMOVE TEMPORARY ESC CONTROLS WHEN:
2. PERMANENT ESC CONTROLS, WHEN APPLICABLE, HAVE BEEN COMPLETELY INSTALLED;
3. ALL LAND-DISTURBING ACTIVITIES THAT HAVE THE POTENTIAL TO CAUSE EROSION OR SEDIMENTATION PROBLEMS HAVE CEASED; AND,
4. VEGETATION HAD BEEN ESTABLISHED IN THE AREAS NOTED AS REQUIRING VEGETATION ON THE ACCEPTED ESC PLAN ON FILE WITH THE LOCAL JURISDICTION.
5. INSPECT ALL ROADWAYS, AT THE END OF EACH DAY, ADJACENT TO THE CONSTRUCTION ACCESS ROUTE. IF IT IS EVIDENT THAT SEDIMENT HAS BEEN TRACKED OFF SITE AND/OR BEYOND THE ROADWAY APPROACH, CLEANING IS REQUIRED.
6. IF SEDIMENT REMOVAL IS NECESSARY PRIOR TO STREET WASHING, IT SHALL BE REMOVED BY SHOVELING OR PICKUP SWEEPING AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
7. IF STREET WASHING IS REQUIRED TO CLEAN SEDIMENT TRACKED OFF SITE, ONCE SEDIMENT HAS BEEN REMOVED, STREET WASH WASTEWATER SHALL BE CONTROLLED BY PUMPING BACK ON-SITE OR OTHERWISE PREVENTED FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO WATERS OF THE STATE.
8. RESTORE CONSTRUCTION ACCESS ROUTE EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION. SPOKANE REGIONAL STORMWATER MANUAL APRIL 2008 APPENDIX 9A – ESC STANDARD PLAN NOTES 9-14
9. RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICAL.
10. INSPECT SEDIMENT CONTROL BMPS WEEKLY AT A MINIMUM, DAILY DURING A STORM EVENT, AND AFTER ANY DISCHARGE FROM THE SITE (STORMWATER OR NON-STORMWATER). THE INSPECTION FREQUENCY MAY BE REDUCED TO ONCE A MONTH IF THE SITE IS STABILIZED AND INACTIVE.
11. CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY IN ACCORDANCE WITH THE STATE AND/OR LOCAL AIR QUALITY CONTROL AUTHORITIES WITH JURISDICTION OVER THE PROJECT AREA.
12. STABILIZE EXPOSED UNWORKED SOILS (INCLUDING STOCKPILES), WHETHER AT FINAL GRADE OR NOT, WITHIN 10 DAYS DURING THE REGIONAL DRY SEASON (JULY 1 THROUGH SEPTEMBER 30) AND WITHIN 5 DAYS DURING THE REGIONAL WET SEASON (OCTOBER 1 THROUGH JUNE 30). SOILS MUST BE STABILIZED AT THE END OF A SHIFT BEFORE A HOLIDAY WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. THIS TIME LIMIT MAY ONLY BE ADJUSTED BY A LOCAL JURISDICTION WITH A "QUALIFIED LOCAL PROGRAM," IF IT CAN BE DEMONSTRATED THAT THE RECENT PRECIPITATION JUSTIFIES A DIFFERENT STANDARD AND MEETS THE REQUIREMENTS SET FOURTH IN THE CONSTRUCTION STORMWATER GENERAL PERMIT.
13. PROTECT INLETS, DRYWELLS, CATCH BASINS AND OTHER STORMWATER MANAGEMENT FACILITIES FROM SEDIMENT, WHETHER OR NOT FACILITIES ARE OPERABLE.
14. KEEP ROADS ADJACENT TO INLETS CLEAN.
15. INSPECT INLETS WEEKLY AT A MINIMUM AND DAILY DURING STORM EVENTS.
16. CONSTRUCT STORMWATER CONTROL FACILITIES (DETENTION/RETENTION STORAGE POND OR SWALES) BEFORE GRADING BEGINS. THESE FACILITIES SHALL BE OPERATIONAL BEFORE THE CONSTRUCTION OF IMPERVIOUS SITE IMPROVEMENTS.
17. STOCKPILE MATERIALS (SUCH AS TOPSOIL) ON SITE, KEEPING OFF OF ROADWAY AND SIDEWALKS.
18. COVER, CONTAIN AND PROTECT ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCT, AND NONINERT WASTES PRESENT ON SITE FROM VANDALISM (SEE CHAPTER 173-304 WAC FOR THE DEFINITION OF INERT WASTE). USE SECONDARY CONTAINMENT FOR ON-SITE FUELING TANKS.
19. CONDUCT MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM REPAIRS, SOLVENT AND DE-GREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES THAT MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CLEAN ALL CONTAMINATED SURFACES IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. IF RAINING OVER EQUIPMENT OR VEHICLE, PERFORM EMERGENCY REPAIRS ON SITE USING TEMPORARY PLASTIC BENEATH THE VEHICLE.
20. CONDUCT APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, IN SUCH A MANNER, AND AT APPLICATION RATES, THAT INHIBITS THE LOSS OF CHEMICALS INTO STORMWATER RUNOFF FACILITIES. AMEND MANUFACTURER'S RECOMMENDED APPLICATION RATES AND PROCEDURES TO MEET THIS REQUIREMENT, IF NECESSARY.
21. INSPECT ON A REGULAR BASIS (AT A MINIMUM WEEKLY, AND DAILY DURING/AFTER A RUNOFF PRODUCING STORM EVENT) AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPS TO ENSURE SUCCESSFUL PERFORMANCE OF THE BMPS. NOTE THAT INLET PROTECTION DEVICES SHALL BE CLEANED OR REMOVED AND REPLACE BEFORE SIX INCHES OF SEDIMENT CAN ACCUMULATE. SPOKANE REGIONAL STORMWATER MANUAL APRIL 2008 APPENDIX 9A – ESC STANDARD PLAN NOTES 9-15
22. REMOVE TEMPORARY ESC BMPS WITHIN 30 DAYS AFTER THE TEMPORARY BMPS ARE NO LONGER NEEDED. PERMANENTLY STABILIZE AREAS THAT ARE DISTURBED DURING THE REMOVAL PROCESS.
23. 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.

PROJECT 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:	WEST OF BARKER ROAD AND SOUTH AND EAST OF MORNINGSIDE HEIGHTS 5th ADDITION
PROJECT DESCRIPTION:	BUILD CHAPMAN RD. EXTENSION TO BARKER RD.
DESCRIPTION OF ESC MEASURES:	ESC MEASURES INCLUDE SILT FENCES, GRAVEL CONSTRUCTION ENTRANCES, AND ROCK CHECK DAMS, AND SLOPE MATTING.
DESCRIPTION OF EXISTING SITE VEGETATION:	THE SITE IS COMPOSED OF FLAT TO ROLLING PASTURE LAND INCLUDING AREAS OF MEADOW GRASS AND SPARSE PINE TREES.
LIST OF ON-SITE SOILS:	BeB- BONG AND PHOEBE LOAMY SANDS CnB- CHENEY AND UHLIG SILT LOAM PsA- PHOEBE SANDY LOAM HvC- HESSELTINE VERY ROCKY COMPLEX MvC- MARBLE LOAMY SANDS McB- MARBLE VARIANT SANDY LOAM SzE- SPRINGDALE GRAVELLY LOAM SANDS

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.

* Previously approved plans dated 09-07-11 revised to add frontage improvements @ MSH #7 + Pond G w/piping.

REVISED!

Developer's Approval _____ Date _____

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1962D
DATE ACCEPTED: 8-23-13
ACCEPTANCE EXPIRES: 08-23-15
PROJECT LANE MILES PUBLIC: 1.80
PROJECT LANE MILES PRIVATE: 0
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

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 8/21/13

REVISIONS

DWN: GHF, BDB DATE: 8/13
CK'D: LDG DATE: 8/13

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

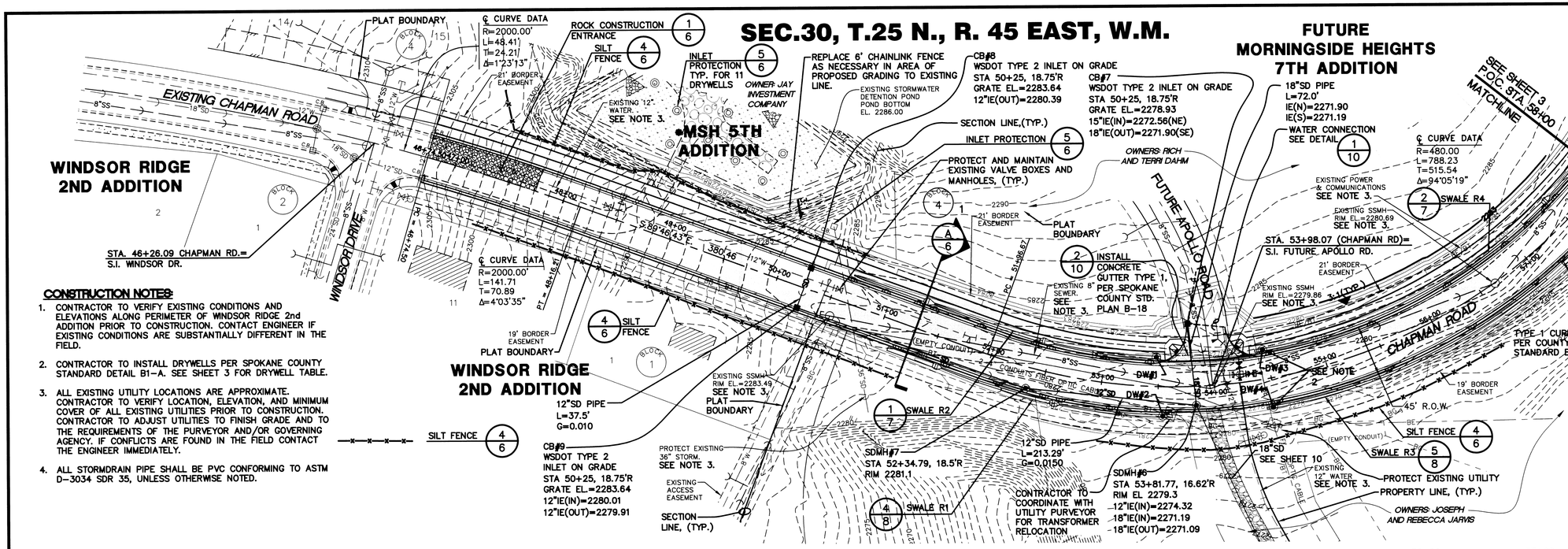
1 / 10

COVER SHEET
CHAPMAN RD.
ROAD PAVING PACKAGE

05162-RG1-COV.dwg

P-1962 D R ENG Road & Drainage

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



UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

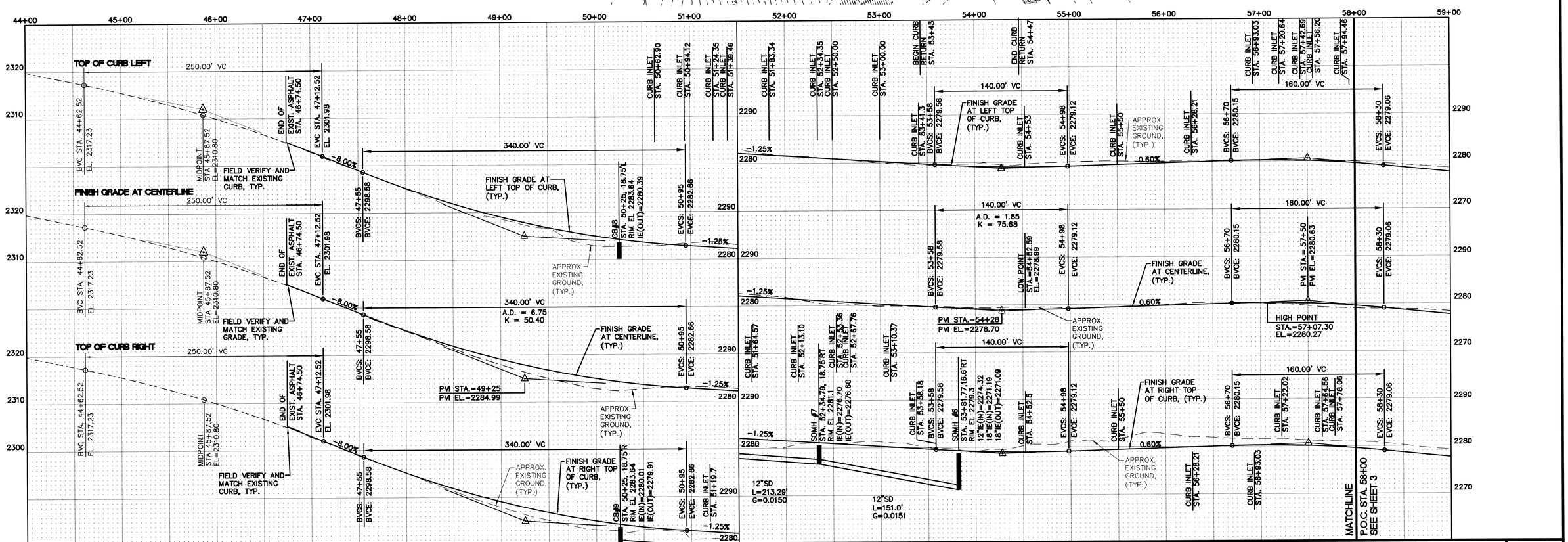
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1962D
DATE ACCEPTED: 09-12-13
ACCEPTANCE EXPIRES: 09-12-15
PROJECT LANE MILES PUBLIC: 1.80
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILT" ARE REQUIRED 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

CONSTRUCTION NOTES:

1. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND ELEVATIONS ALONG PERIMETER OF WINDSOR RIDGE 2nd ADDITION PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF EXISTING CONDITIONS ARE SUBSTANTIALLY DIFFERENT IN THE FIELD.
2. CONTRACTOR TO INSTALL DRYWELLS PER SPOKANE COUNTY STANDARD DETAIL B1-A. SEE SHEET 3 FOR DRYWELL TABLE.
3. ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATION, ELEVATION, AND MINIMUM COVER OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR TO ADJUST UTILITIES TO FINISH GRADE AND TO THE REQUIREMENTS OF THE PURVEYOR AND/OR GOVERNING AGENCY. IF CONFLICTS ARE FOUND IN THE FIELD CONTACT THE ENGINEER IMMEDIATELY.
4. ALL STORMDRAIN PIPE SHALL BE PVC CONFORMING TO ASTM D-3034 SDR 35, UNLESS OTHERWISE NOTED.

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. TAYLOR ENGINEERING, INC. MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHER, WE DO NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN EXACT LOCATION INDICATED, ALTHOUGH WE DO CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.



No.	Date	By	Ckd.	Appr.	Revisions

Drawn	GHF, BDB	8/13
Designed	LDG	8/13
Checked	MAA	8/13

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 8/21/13

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 UTILITIES
W. 1026 Broadway Ave.
Spokane Wa. 99260
477-3604

VERTICAL DATUM: #4 REBAR W/ YPC AT INTERSECTION OF APOLLO RD. AND SELKIRK DR. EL.=2296.74(NAVD 88)

CADD FILE NAME: 05162-RG2-ER0.dwg

50 25 0 50 100
SCALE FEET

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

CHAPMAN ROAD

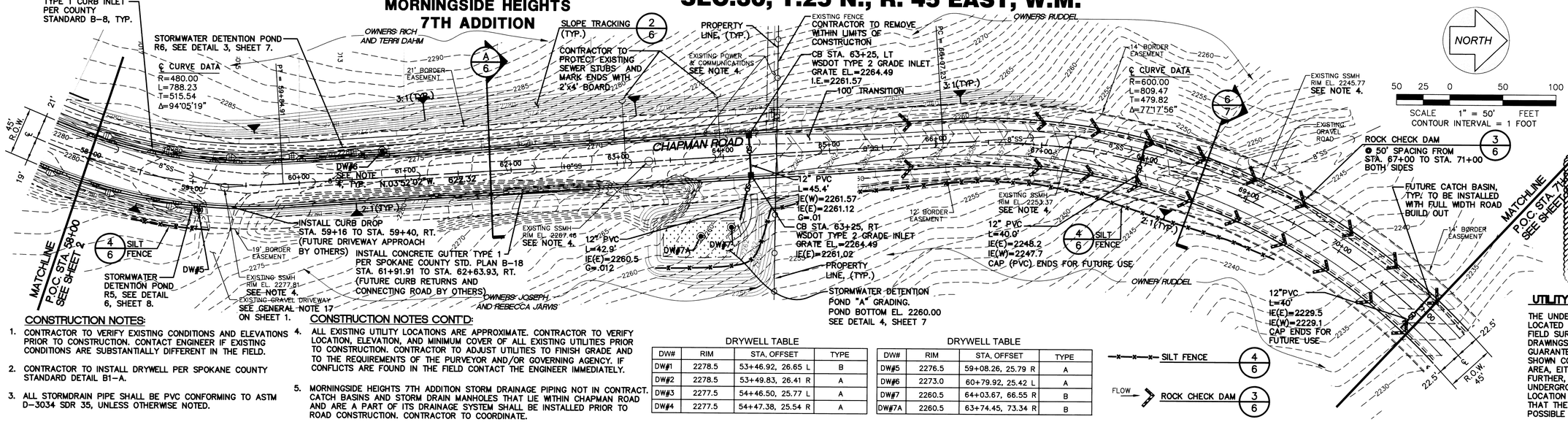
CHAPMAN ROAD
ROAD PAVING PACKAGE
STA. 46+74.50 TO STA. 58+00

ROAD
SHEET 2 / 10

P-1962D ENG Roads Drainage

FUTURE MORNINGSIDE HEIGHTS 7TH ADDITION

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



UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-19620
DATE ACCEPTED: 08-22-13
ACCEPTANCE EXPIRES: 08-22-15
PROJECT LANE MILES PUBLIC: 1.80
PROJECT LANE MILES PRIVATE: 0
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 48 BUSINESS DAYS PRIOR TO CONSTRUCTION

CONSTRUCTION NOTES:

1. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF EXISTING CONDITIONS ARE SUBSTANTIALLY DIFFERENT IN THE FIELD.
2. CONTRACTOR TO INSTALL DRYWELL PER SPOKANE COUNTY STANDARD DETAIL B1-A.
3. ALL STORMDRAIN PIPE SHALL BE PVC CONFORMING TO ASTM D-3034 SDR 35, UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES CONT'D:

4. ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATION, ELEVATION, AND MINIMUM COVER OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR TO ADJUST UTILITIES TO FINISH GRADE AND TO THE REQUIREMENTS OF THE PURVEYOR AND/OR GOVERNING AGENCY. IF CONFLICTS ARE FOUND IN THE FIELD CONTACT THE ENGINEER IMMEDIATELY.
5. MORNINGSIDE HEIGHTS 7TH ADDITION STORM DRAINAGE PIPING NOT IN CONTRACT. CATCH BASINS AND STORM DRAIN MANHOLES THAT LIE WITHIN CHAPMAN ROAD AND ARE A PART OF ITS DRAINAGE SYSTEM SHALL BE INSTALLED PRIOR TO ROAD CONSTRUCTION. CONTRACTOR TO COORDINATE.

DRYWELL TABLE

DW#	RIM	STA, OFFSET	TYPE
DW#1	2278.5	53+46.92, 26.65 L	B
DW#2	2278.5	53+49.83, 26.41 R	A
DW#3	2277.5	54+46.50, 25.77 L	A
DW#4	2277.5	54+47.38, 25.54 R	A

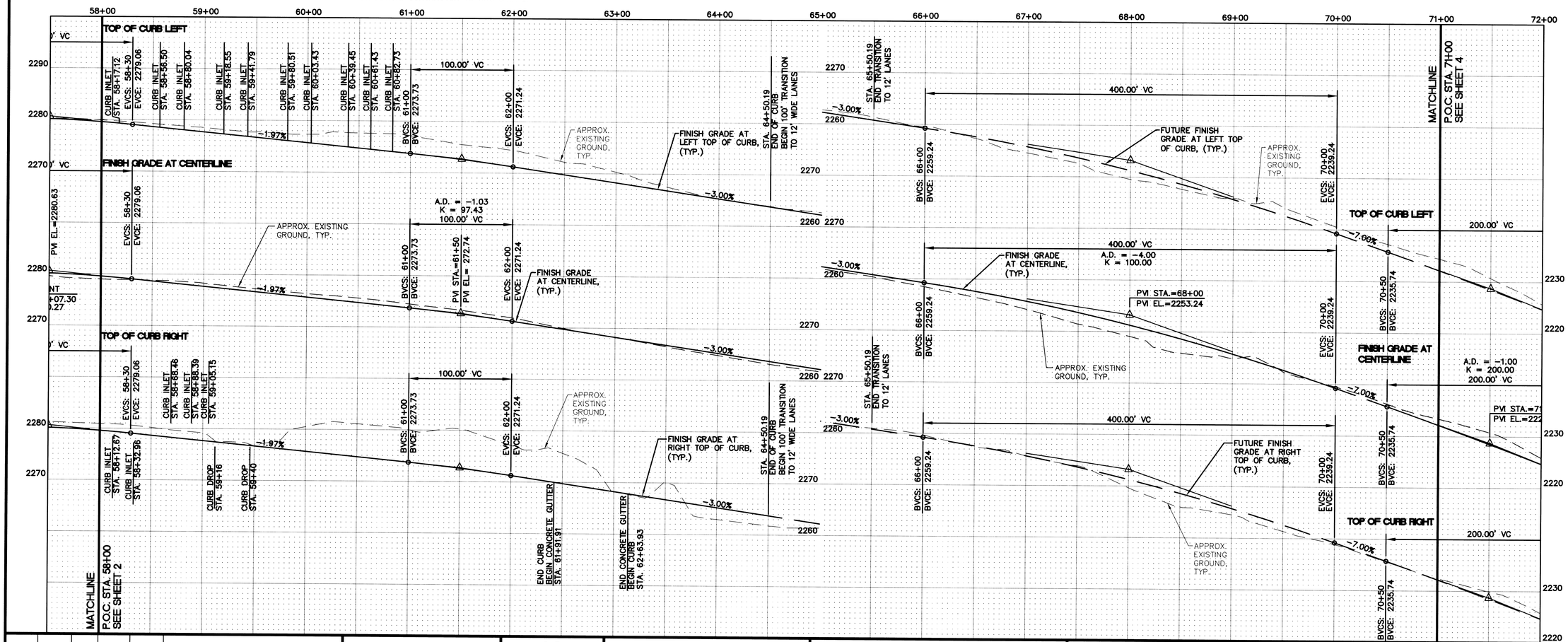
DRYWELL TABLE

DW#	RIM	STA, OFFSET	TYPE
DW#5	2276.5	59+08.26, 25.79 R	A
DW#6	2273.0	60+79.92, 25.42 L	A
DW#7	2260.5	64+03.67, 66.55 R	B
DW#7A	2260.5	63+74.45, 73.34 R	B

SILT FENCE 4/6
FLOW ROCK CHECK DAM 3/6

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. TAYLOR ENGINEERING, INC. MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHER, WE DO NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN EXACT LOCATION INDICATED, ALTHOUGH WE DO CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.



No.	Date	By	Ckd.	Appr.	Revisions

Drawn	GHF, BDB	8/13
Designed	LDG	8/13
Checked	MAA	8/13

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 8/8/13

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 UTILITIES
W. 1026 Broadway Ave.
Spokane Wa. 99260
477-3604

VERTICAL DATUM: #4 REBAR W/ YPC AT INTERSECTION OF APOLLO RD. AND SELKIRK DR. EL.=2296.74(NAVD 88)

CADD FILE NAME: 05162-RG3-ER0.dwg

50 25 0 50 100
SCALE FEET

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

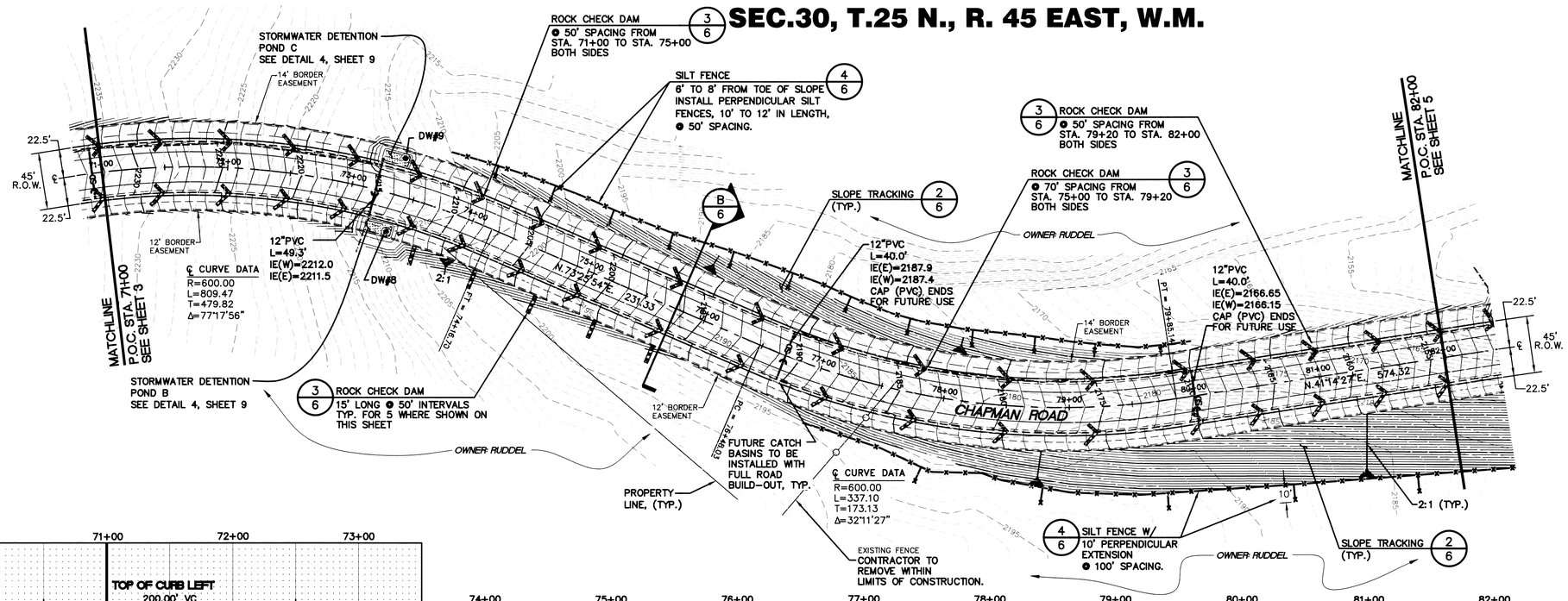
CHAPMAN ROAD

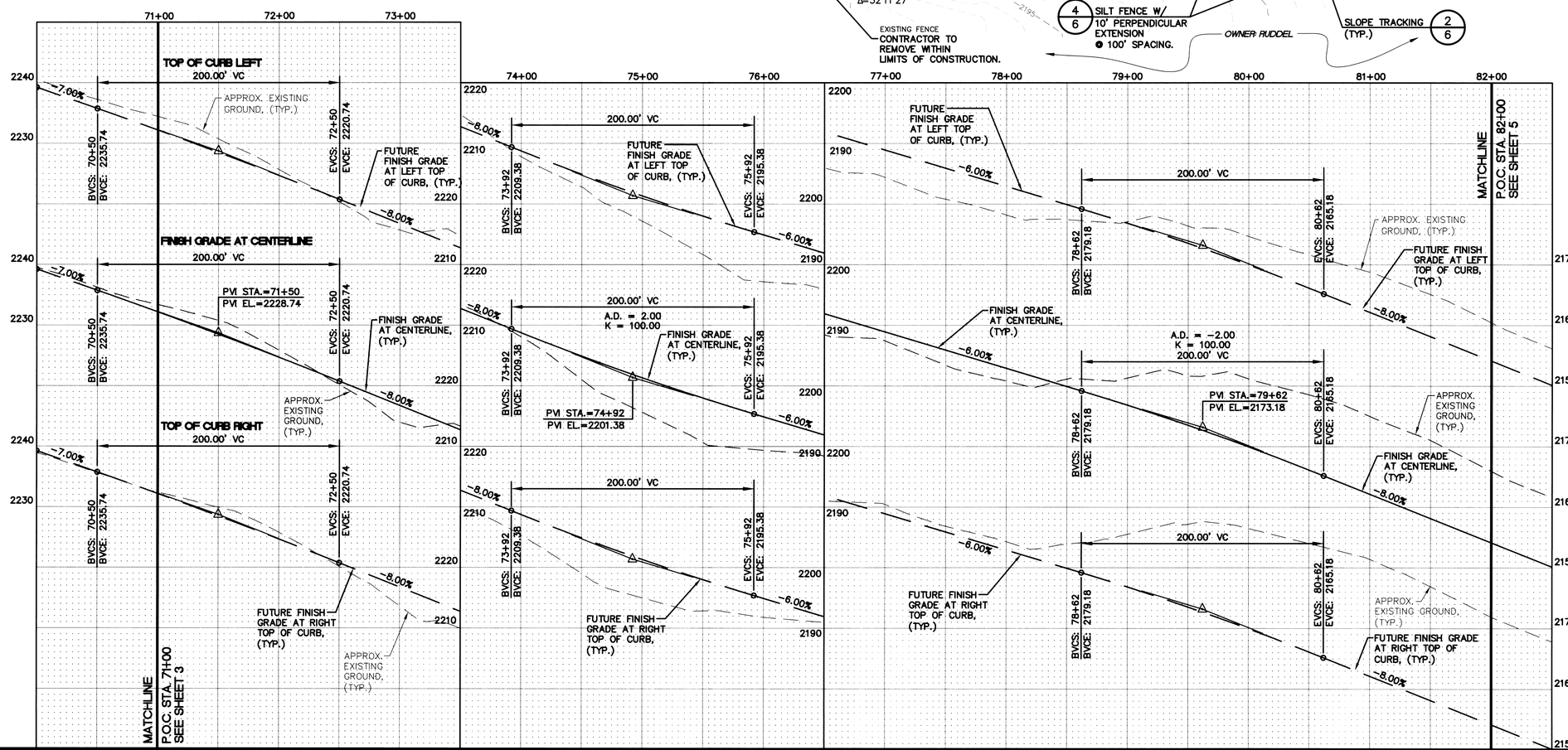
CHAPMAN ROAD EXTENSION
ROAD PAVING PACKAGE
STA. 58+00 TO STA. 71+00

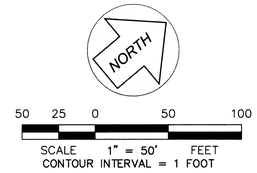
ROAD
SHEET 3 / 10

P-19620 ENG Road & Drainage

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







SILT FENCE (4/6)

FLOW — ROCK CHECK DAM (3/6)

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

CONSTRUCTION NOTES:

1. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF EXISTING CONDITIONS ARE SUBSTANTIALLY DIFFERENT IN THE FIELD.
2. CONTRACTOR TO INSTALL DRYWELL PER SPOKANE COUNTY STANDARD DETAIL B1-A.
3. ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATION, ELEVATION, AND MINIMUM COVER OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR TO ADJUST UTILITIES TO FINISH GRADE AND TO THE REQUIREMENTS OF THE PURVEYOR AND/OR GOVERNING AGENCY. IF CONFLICTS ARE FOUND IN THE FIELD CONTACT THE ENGINEER IMMEDIATELY.
4. ALL STORMDRAIN PIPE SHALL BE PVC CONFORMING TO ASTM D-3034 SDR 35, UNLESS OTHERWISE NOTED.

DRYWELL TABLE

DW#	RIM	STA	TYPE
DW#8	2212.0	73+36.14, 30.24 R	B
DW#9	2212.0	73+35.15, 29.95 L	B

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1962D
DATE ACCEPTED: 08-22-13
ACCEPTANCE EXPIRES: 08-22-15
PROJECT LANE MILES PUBLIC: 1.80
PROJECT LANE MILES PRIVATE: 0
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

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. TAYLOR ENGINEERING, INC. MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHER, WE DO NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN EXACT LOCATION INDICATED, ALTHOUGH WE DO CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

No.	Date	By	Ckd.	Appr.	Revisions

Drawn	GHF, BDB	Date 8/13
Designed	LDG	8/13
Checked By County	MAA	8/13

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 8/21/13

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 UTILITIES
W. 1026 Broadway Ave.
Spokane Wa. 99260
477-3604

VERTICAL DATUM: #4 REBAR W/ YPC AT INTERSECTION OF APOLLO RD. AND SELKIRK DR. EL.=2296.74(NAVD 88)

CADD FILE NAME: 05162-RG4-ER0.dwg

50 25 0 50 100
SCALE FEET

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

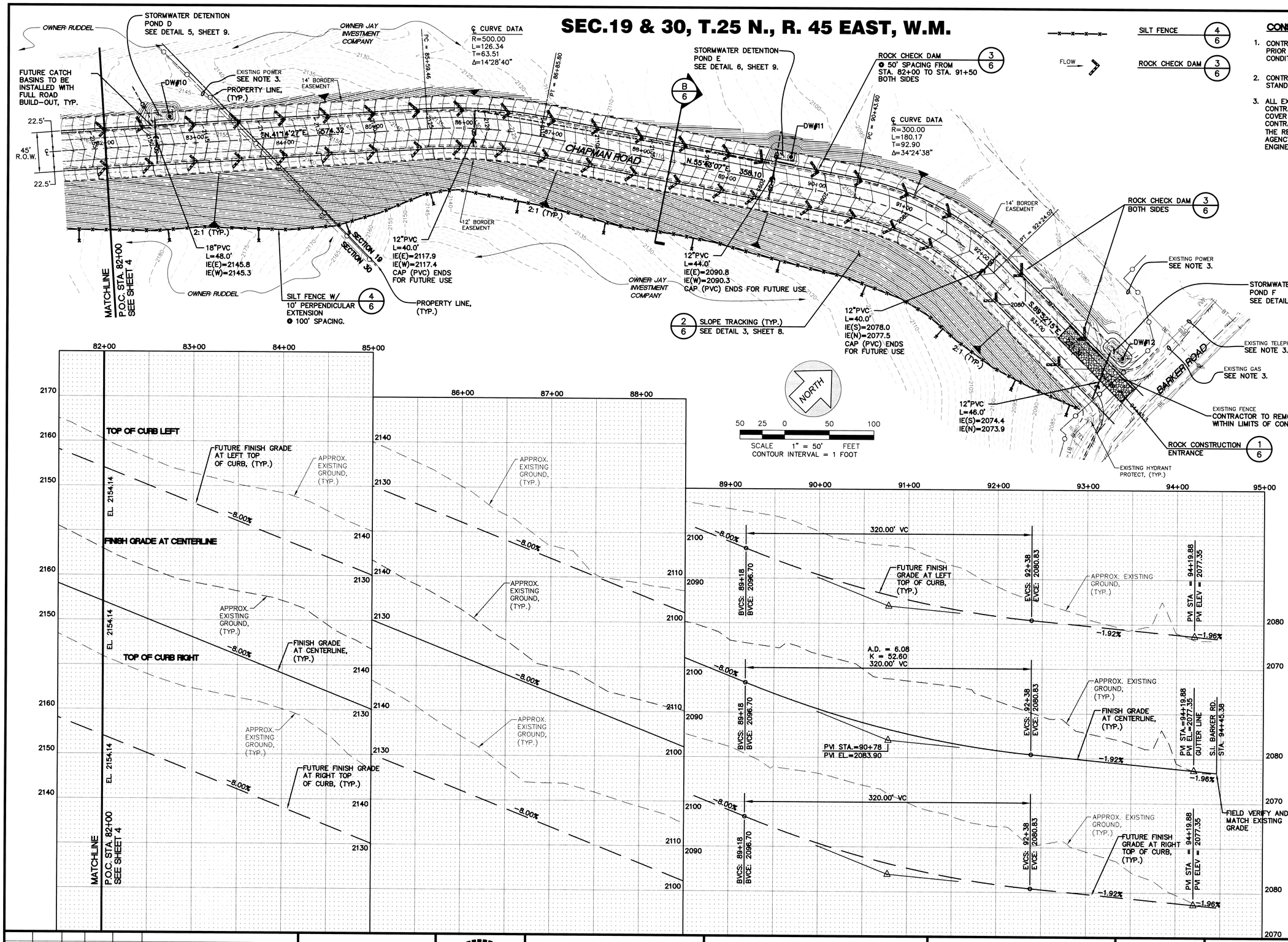
CHAPMAN ROAD

CHAPMAN ROAD EXTENSION
ROAD PAVING PACKAGE
STA. 71+00 TO STA. 82+00

ROAD
SHEET 4 / 10

P-1962 D ENG Road & Drainage

SEC.19 & 30, T.25 N., R. 45 EAST, W.M.



CONSTRUCTION NOTES:

1. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF EXISTING CONDITIONS ARE SUBSTANTIALLY DIFFERENT IN THE FIELD.
2. CONTRACTOR TO INSTALL DRYWELL PER SPOKANE COUNTY STANDARD DETAIL B1-A.
3. ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATION, ELEVATION, AND MINIMUM COVER OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR TO ADJUST UTILITIES TO FINISH GRADE AND TO THE REQUIREMENTS OF THE PURVEYOR AND/OR GOVERNING AGENCY. IF CONFLICTS ARE FOUND IN THE FIELD CONTACT THE ENGINEER IMMEDIATELY.

DRYWELL TABLE

DW#	RIM	STA, OFFSET	TYPE
DW#10	2145.5	82+73.26, 31.24 L	B
DW#11	2090.5	89+65.83, 31.11 L	B
DW#12	2076.0	93+93.41, 34.80 L	B

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1962D
DATE ACCEPTED: 08-22-13
ACCEPTANCE EXPIRES: 08-22-15
PROJECT LANE MILES PUBLIC: 1.80
PROJECT LANE MILES PRIVATE: 4
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

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. TAYLOR ENGINEERING, INC. MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHER, WE DO NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN EXACT LOCATION INDICATED, ALTHOUGH WE DO CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

No.	Date	By	Ckd.	Appr.	Revisions

Drawn	GHF, BDB	Date 8/13
Designed	LDG	8/13
Checked	MAA	8/13

MARK A. ARONSON, STATE OF WASHINGTON, 24681 REGISTERED PROFESSIONAL ENGINEER 8/21/13

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 UTILITIES
W. 1026 Broadway Ave.
Spokane Wa. 99260
477-3604

VERTICAL DATUM: #4 REBAR W/ YPC AT INTERSECTION OF APOLLO RD. AND SELKIRK DR. EL.=2296.74(NAVD 88)

CADD FILE NAME: 05162-RG5-ER0.dwg

50 25 0 50 100
SCALE FEET

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

CHAPMAN ROAD

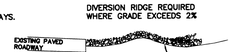
CHAPMAN ROAD EXTENSION
ROAD PAVING PACKAGE
STA. 82+00 TO STA. 94+45.38

ROAD
SHEET 5 / 10

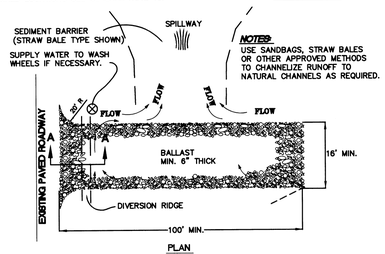
P-1962D ENG Road & Drainage

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.
4. FOR REQUIRED LOCATIONS SEE GENERAL NOTE 10.



SECTION A - A

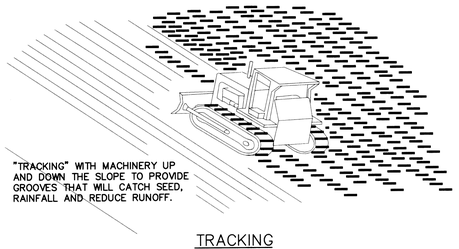


NOTES
USE SANDBAGS, STRAW BALES OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO NATURAL CHANNELS AS REQUIRED.

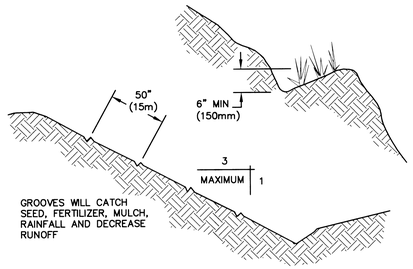
PLAN

1 / 2,5 ROCK CONSTRUCTION ENTRANCE

NOT TO SCALE



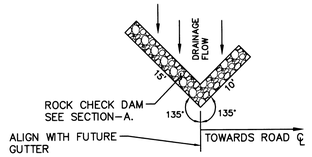
TRACKING



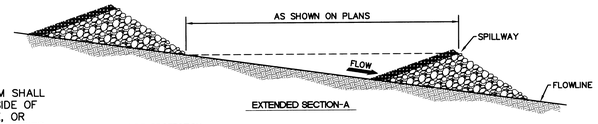
CONTOUR FURROWS

2 / 2,3,4,5 SLOPE TRACKING

NOT TO SCALE

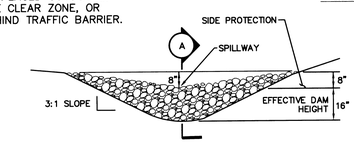


GUTTER LINE PLACEMENT

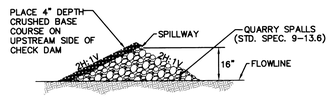


EXTENDED SECTION-A

NOTE:
ROCK CHECK DAM SHALL BE PLACED OUTSIDE OF THE CLEAR ZONE, OR BEHIND TRAFFIC BARRIER.



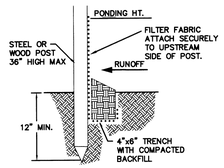
ELEVATION



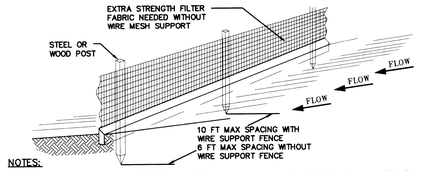
SECTION-A

3 / 4,5 ROCK CHECK DAM

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



STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

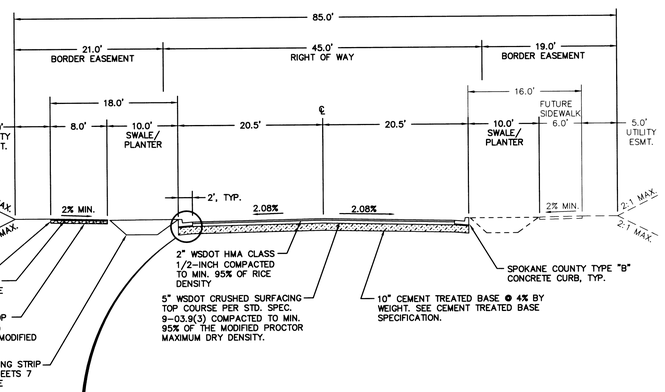


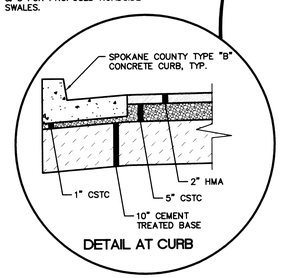
NOTES:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

4 / 2,3,4,5 SILT FENCE

NOT TO SCALE

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1962D
DATE ACCEPTED: 08-22-13
ACCEPTANCE EXPIRES: 08-22-15
PROJECT LANE MILES PUBLIC: 1.80
PROJECT LANE MILES PRIVATE: 0
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

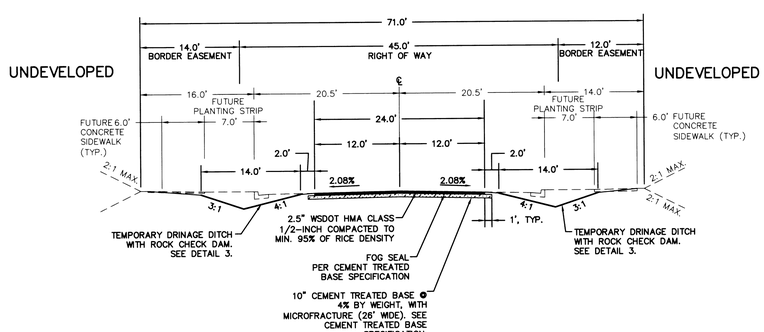




DETAIL AT CURB

A / 2,3 TYPICAL ROAD CONSTRUCTION -CHAPMAN ROAD

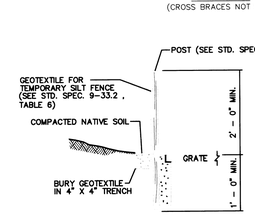
STA. 46+74.50 TO STA. 64+50.19
NOT TO SCALE



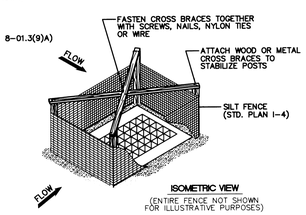
B / 3,4,5 TYPICAL ROAD CONSTRUCTION -CHAPMAN ROAD

STA.64+50.19 TO STA. BARKER ROAD
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).

5 / 2 INLET SEDIMENT PROTECTION TYPE 2

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

No.	Date	By	Ckd.	Appr.	Revisions

		Date
Drawn	GHF, BDB	8/13
Designed	LDG	8/13
Checked	MAA	8/13

MARK A. ARONSON, STATE OF WASHINGTON, 24681, REGISTERED PROFESSIONAL ENGINEER, 8/21/13

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 UTILITIES
W. 1026 Broadway Ave.
Spokane Wa. 99260
477-3604

VERTICAL DATUM: #4 REBAR W/ YPC AT INTERSECTION OF APOLLO RD. AND SELKIRK DR. EL.=2296.74(NAVD 88)

CADD FILE NAME: 05162-(6)-DET.dwg

50 25 0 50 100
SCALE FEET

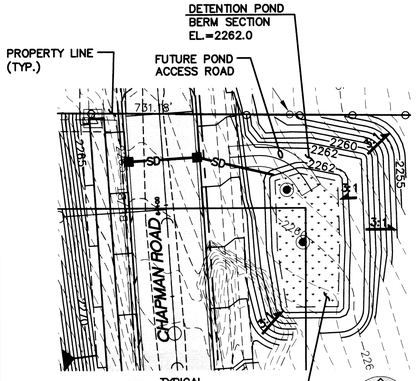
SCALE
HORIZ. 1"=50'
VERT. 1"=10'

CHAPMAN ROAD

CHAPMAN ROAD EXTENSION
ROAD PAVING PACKAGE
DETAIL SHEET

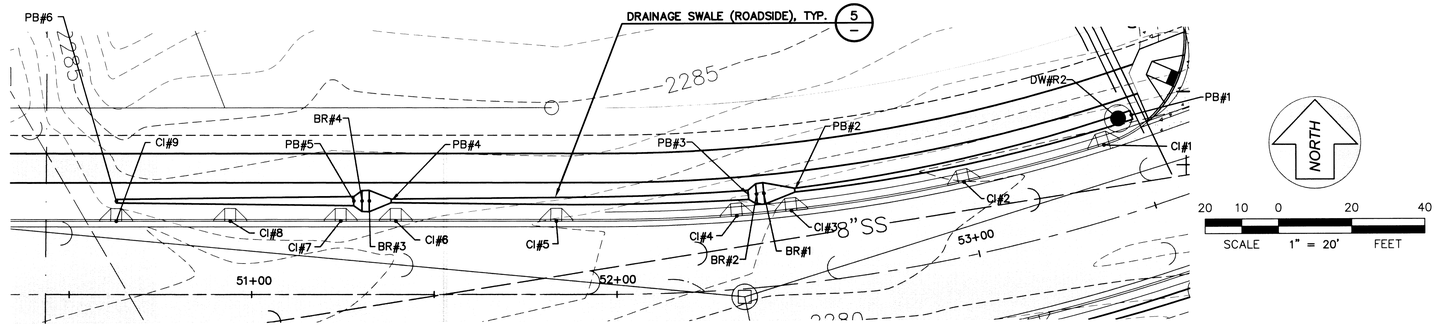
ROAD
SHEET
6 / 10

P-1962D ENG Road + Drainage



4/3 STORMWATER POND 'A'

STA. 64+00 (RIGHT SIDE)

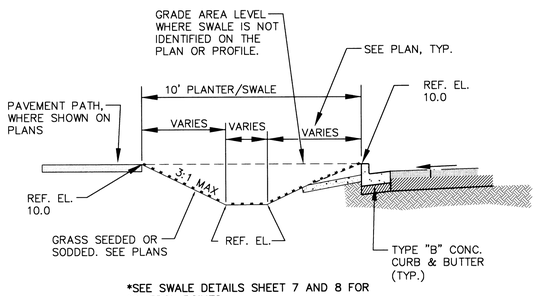


1/2 SWALE #R2 DETAIL

STA. 51+12.20 TO STA. 53+62.50
LEFT SIDE

ABBREVIATIONS
PB=POND BOTTOM
TC EL.=TOP OF CURB ELEVATION
DW=DRYWELL
BR=BERM (TOP)
CI=CURB INLET

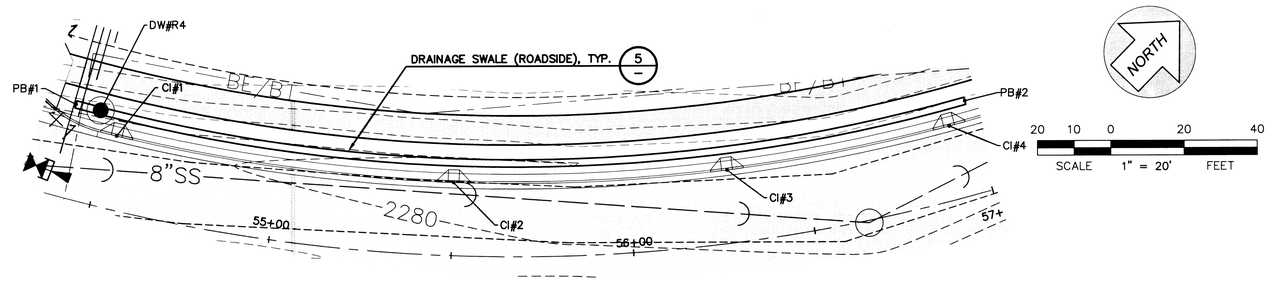
SWALE #R2 CONTROL				
POINT	STATION	TC EL.	ELEVATION	POND/BERM WIDTH
PB#1	53+51.48	2279.62	2278.41	2.74
DW#R2	53+47.54	2279.71	2278.94(RIM)	–
CI#1	53+41.36	2279.79	2279.29	–
CI#2	53+00.00	2280.30	2279.80	–
PB#2	52+51.59	2280.86	2279.36	1.00
CI#3	52+50.00	2280.93	2280.43	–
BR#1	52+42.60	2281.01	2280.33	5.92
BR#2	52+40.50	2281.05	2280.33	5.68
PB#3	52+38.10	2281.08	2279.83	2.50
CI#4	52+34.35	2281.12	2280.62	–
CI#5	51+83.34	2281.76	2281.26	–
CI#6	51+39.46	2282.31	2281.81	–
PB#4	51+38.18	2282.33	2280.83	1.00
BR#3	51+32.20	2282.40	2281.70	5.80
BR#4	51+30.20	2282.42	2281.70	5.68
PB#5	51+27.90	2282.45	2281.20	2.50
CI#7	51+24.35	2282.50	2282.00	–
CI#8	50+94.12	2282.88	2282.38	–
CI#9	50+62.90	2283.37	2282.87	–
PB#6	50+62.90	2283.37	2281.87	1.00



*SEE SWALE DETAILS SHEET 7 AND 8 FOR CONTROL POINTS

5/7,8 DRAINAGE SWALE (ROADSIDE)

NOT TO SCALE

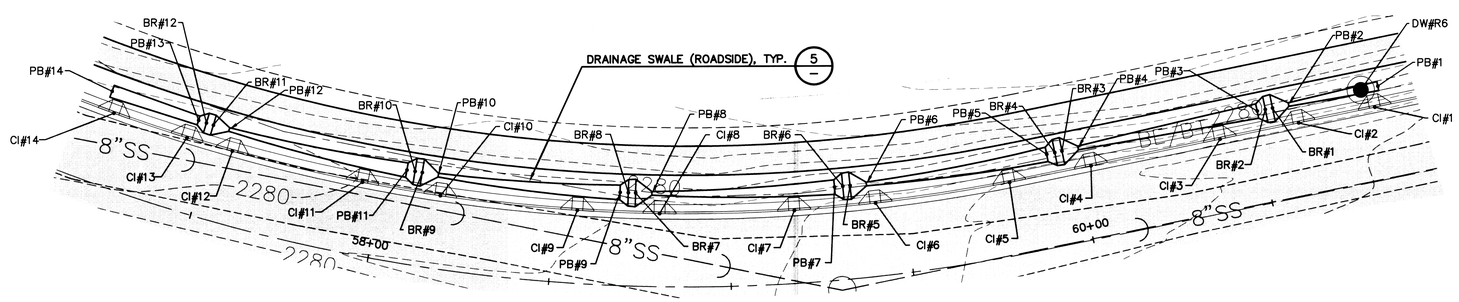


2/2 SWALE #R4 DETAIL

STA. 54+39.15 TO STA. 56+99.25
LEFT SIDE

ABBREVIATIONS
PB=POND BOTTOM
TC EL.=TOP OF CURB ELEVATION
DW=DRYWELL
BR=BERM (TOP)

SWALE #R4 CONTROL				
POINT	STATION	TC EL.	ELEVATION	POND/BERM WIDTH
PB#1	54+39.15	2279.00	2277.75	2.50
DW#R4	54+46.50	2278.99	2278.22(RIM)	–
CI#1	54+52.70	2278.99	2278.49	–
CI#2	55+50.00	2279.43	2278.93	–
CI#3	56+28.21	2279.90	2279.40	–
CI#4	56+93.03	2280.25	2279.75	–
PB#2	56+99.25	2280.26	2279.01	2.50



3/3 SWALE #R6 DETAIL

STA. 57+18.0 TO STA. 60+84.7
LEFT SIDE

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1962D
DATE ACCEPTED: 08-22-13
ACCEPTANCE EXPIRES: 08-22-15
PROJECT LANE MILES PUBLIC: 1.80
PROJECT LANE MILES PRIVATE: 0
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 START OF WORK

ABBREVIATIONS
PB=POND BOTTOM
TC EL.=TOP OF CURB ELEVATION
DW=DRYWELL
BR=BERM (TOP)

SWALE #R6 CONTROL				
POINT	STATION	TC EL.	ELEVATION	POND/BERM WIDTH
PB#1	60+84.7	2274.03	2272.78	2.50
CI#1	60+82.73	2274.07	2273.57	–
CI#2	60+61.43	2274.49	2273.99	–
PB#2	60+59.70	2274.52	2273.02	1.00
BR#1	60+55.20	2274.61	2274.19	7.48
BR#2	60+53.20	2274.65	2274.19	7.24
PB#3	60+50.95	2274.69	2273.69	4.00
CI#3	60+39.45	2274.92	2274.42	–
CI#4	60+03.43	2275.63	2275.13	–
PB#4	60+00.95	2275.68	2274.18	1.00
BR#3	59+96.45	2275.77	2275.35	7.48
BR#4	59+94.45	2275.81	2275.35	7.24
PB#5	59+92.20	2275.85	2274.85	4.00
CI#5	59+80.51	2276.09	2275.59	–
CI#6	59+41.79	2276.85	2276.35	–
PB#6	59+39.80	2276.89	2275.39	1.00
BR#5	59+35.05	2276.98	2276.57	7.54
BR#6	59+32.95	2277.02	2276.57	7.30
PB#7	59+30.55	2277.07	2276.07	4.00
CI#7	59+18.55	2277.31	2276.81	–
CI#8	58+80.04	2278.07	2277.57	–
PB#8	58+77.75	2278.11	2276.61	1.00
BR#7	58+73.00	2278.21	2277.80	7.54
BR#8	58+70.90	2278.25	2277.80	7.30
PB#9	58+68.50	2278.30	2277.30	4.00
CI#9	58+56.50	2278.53	2278.03	–
CI#10	58+17.12	2279.30	2278.80	–
PB#10	58+15.70	2279.32	2277.82	1.00
BR#9	58+10.95	2279.40	2278.98	7.48
BR#10	58+08.85	2279.44	2278.98	7.24
PB#11	58+06.45	2279.48	2278.48	4.00
CI#11	57+94.46	2279.66	2279.16	–
CI#12	57+56.20	2280.07	2279.57	–

SWALE #R6 CONTROL (CONTINUED)				
POINT	STATION	TC EL.	ELEVATION	POND/BERM WIDTH
PB#12	57+53.65	2280.09	2278.59	1.00
BR#11	57+48.90	2280.13	2279.41	5.68
BR#12	57+46.80	2280.14	2279.41	5.62
PB#13	57+44.40	2280.16	2278.91	2.50
CI#13	57+42.69	2280.17	2279.67	–
CI#14	57+20.64	2280.25	2279.75	–
PB#14	57+18.00	2280.26	2279.17	3.48

No.	Date	By	Ckd.	Appr.	Revisions

Drawn GHF, BDB Date 8/13
Designed LDG 8/13
Checked MAA 8/13

MARK A. ARONSON, STATE OF WASHINGTON, 24681, REGISTERED PROFESSIONAL ENGINEER 8/21/13

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

Approved _____ Date _____

VERTICAL DATUM: #4 REBAR W/ YPC AT INTERSECTION OF APOLLO RD. AND SELKIRK DR. EL.=2296.74(NAVD 88)

CADD FILE NAME: 05162-RG9-SWALE DETAILS.dwg

50 25 0 50 100
SCALE FEET

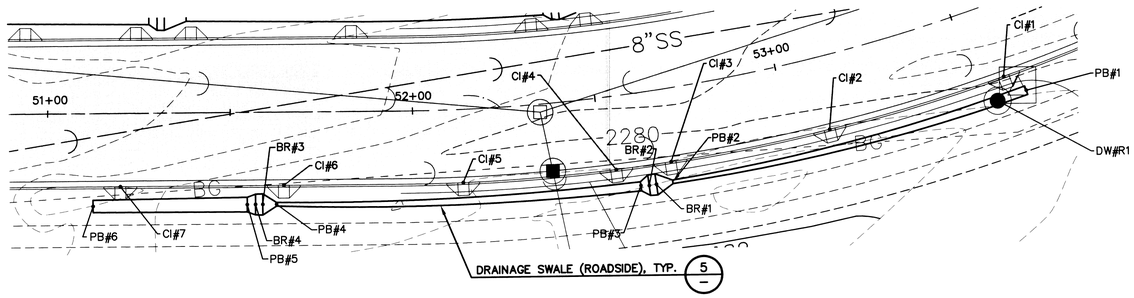
SCALE
HORIZ. 1"=50'
VERT. 1"=10'

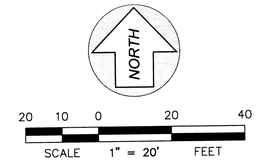
CHAPMAN ROAD

ROADSIDE SWALE DETAILS

ROAD
SHEET 7/10

P-1962D ENG Roads Drainage



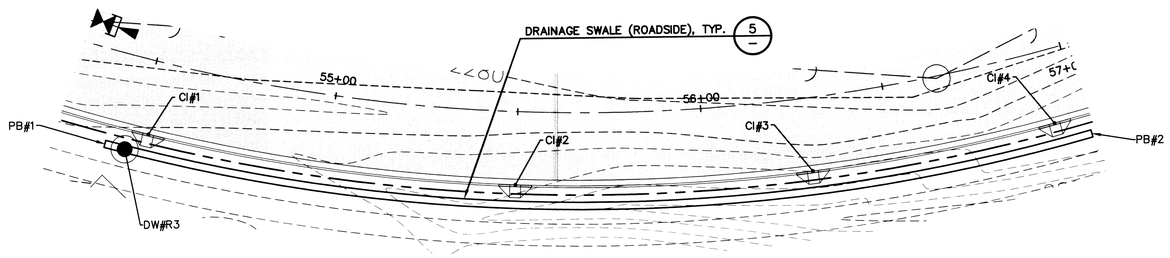


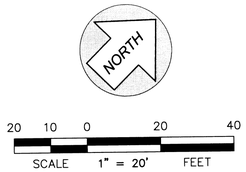
4/2 SWALE #R1 DETAIL

STA. 50+47.9 TO STA. 53+62.50
RIGHT SIDE

ABBREVIATIONS
PB=POND BOTTOM
TC EL.=TOP OF CURB ELEVATION
DW=DRYWELL
BR=BERM (TOP)
CI=CURB INLET

SWALE #R1 CONTROL				
POINT	STATION	TC EL.	ELEVATION	POND/BERM WIDTH
PB#1	53+62.50	2279.52	2278.27	2.50
CI#1	53+58.18	2279.58	2279.08	–
DW#R1	53+54.56	2279.62	2278.85(RIM)	–
CI#2	53+10.37	2280.17	2279.67	–
CI#3	52+67.76	2280.71	2280.21	–
PB#2	52+67.50	2280.71	2279.21	1.00
BR#1	52+63.25	2280.76	2280.06	5.80
BR#2	52+61.35	2280.79	2280.06	5.62
PB#3	52+59.20	2280.81	2279.56	2.50
CI#4	52+53.36	2280.89	2280.39	–
CI#5	52+13.10	2281.39	2280.89	–
CI#6	51+64.57	2282.00	2281.50	–
PB#4	51+62.50	2282.02	2280.52	1.00
BR#3	51+58.75	2282.07	2281.37	5.80
BR#4	51+56.75	2282.09	2281.37	5.68
PB#5	51+54.50	2282.12	2280.87	2.50
CI#7	51+19.72	2282.56	2282.06	–
PB#6	51+12.20	2282.65	2281.29	1.86



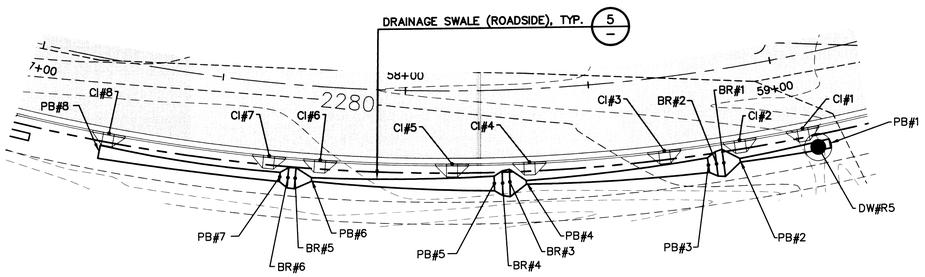


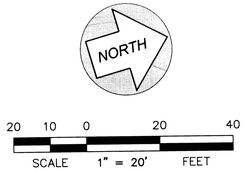
5/2 SWALE #R3 DETAIL

STA. 54+42.04 TO STA. 57+01.72
RIGHT SIDE

ABBREVIATIONS
PB=POND BOTTOM
TC EL.=TOP OF CURB ELEVATION
DW=DRYWELL
BR=BERM (TOP)
CI=CURB INLET

SWALE #R3 CONTROL				
POINT	STATION	TC EL.	ELEVATION	POND/BERM WIDTH
PB#1	54+42.05	2278.99	2277.74	2.50
DW#R3	54+47.38	2278.99	2278.29(RIM)	–
CI#1	54+52.49	2278.99	2278.49	–
CI#2	55+50.00	2279.43	2278.93	–
CI#3	56+28.21	2279.90	2279.40	–
CI#4	56+93.03	2280.25	2279.75	–
PB#2	57+01.70	2280.26	2279.01	2.50





6/3 SWALE #R5 DETAIL

STA. 57+20.35 TO STA. 59+11.45
RIGHT SIDE

ABBREVIATIONS
PB=POND BOTTOM
TC EL.=TOP OF CURB ELEVATION
DW=DRYWELL
BR=BERM (TOP)
CI=CURB INLET

SWALE #R5 CONTROL				
POINT	STATION	TC EL.	ELEVATION	POND/BERM WIDTH
PB#1	59+11.45	2277.45	2276.20	2.50
DW#R5	59+08.26	2277.51	2276.73(RIM)	–
CI#1	59+05.15	2277.57	2277.07	–
CI#2	58+88.39	2277.90	2277.40	–
PB#2	58+87.70	2277.92	2276.42	1.00
BR#1	58+83.45	2278.00	2277.58	7.48
BR#2	58+81.55	2278.04	2277.58	7.24
PB#3	58+78.40	2278.08	2277.08	4.00
CI#3	58+68.46	2278.30	2277.80	–
CI#4	58+32.96	2279.00	2278.50	–
PB#4	58+31.90	2279.02	2277.52	1.00
BR#3	58+27.65	2279.10	2278.68	7.48
BR#4	58+25.75	2279.14	2278.68	7.24
PB#5	58+23.60	2279.18	2278.18	4.00
CI#5	58+12.67	2279.37	2278.87	–
CI#6	57+78.06	2279.86	2279.36	–
PB#6	57+76.10	2279.89	2278.39	1.00
BR#5	57+71.85	2279.93	2279.22	5.74
BR#6	57+69.95	2279.95	2279.22	5.62
PB#7	57+67.80	2279.97	2278.72	2.50
CI#7	57+64.56	2280.00	2279.50	–
CI#8	57+22.02	2280.25	2279.75	–
PB#8	57+20.35	2280.25	2279.19	3.67

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-19620
DATE ACCEPTED: 08-22-13
ACCEPTANCE EXPIRES: 08-22-15
PROJECT LANE MILES PUBLIC: 1.80
PROJECT LANE MILES PRIVATE: 0
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	GHF, BDB	8/13
Designed	LDG	8/13
Checked	MAA	8/13

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 8/14/13

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

Approved _____ Date _____

VERTICAL DATUM: #4 REBAR W/ YPC AT INTERSECTION OF APOLLO RD. AND SELKIRK DR. EL.=2296.74(NAVD 88)

CADD FILE NAME: 05162-RG9-SWALE DETAILS.dwg

50 25 0 50 100
SCALE FEET

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

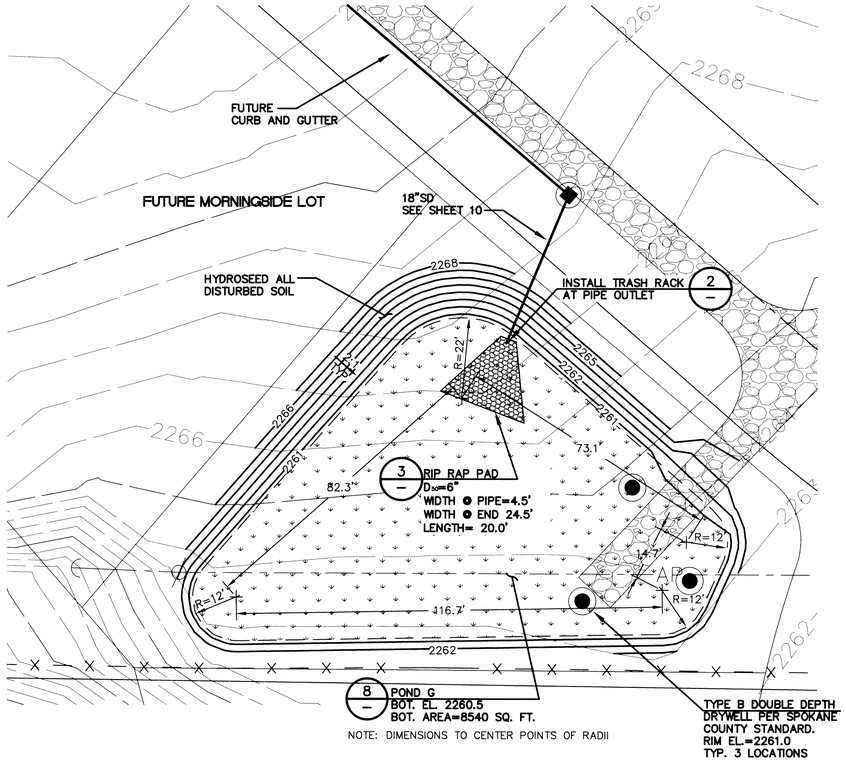
CHAPMAN ROAD

ROADSIDE SWALE DETAILS

ROAD

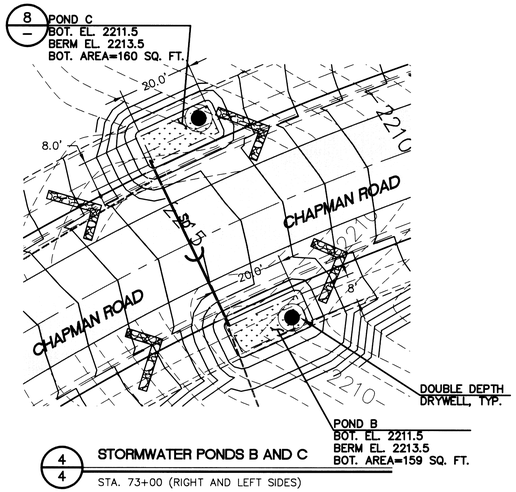
SHEET 8/10

P-19620 ENG Road + Drainage



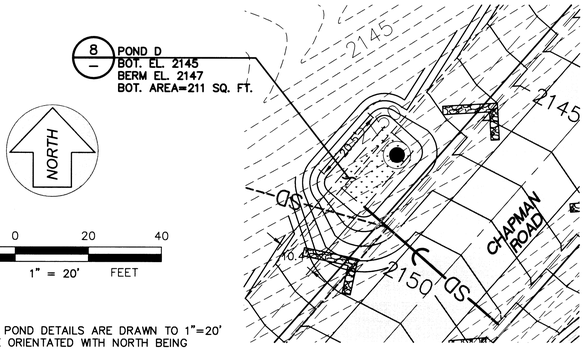
1/10 STORMWATER POND G

SCALE: 1"=20' (SEE NOTE 1)



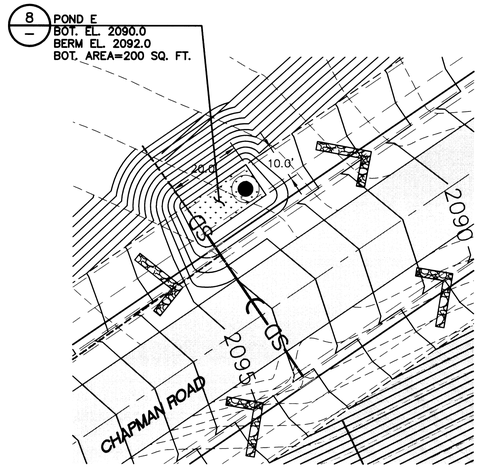
4/4 STORMWATER PONDS B AND C

STA. 73+00 (RIGHT AND LEFT SIDES)



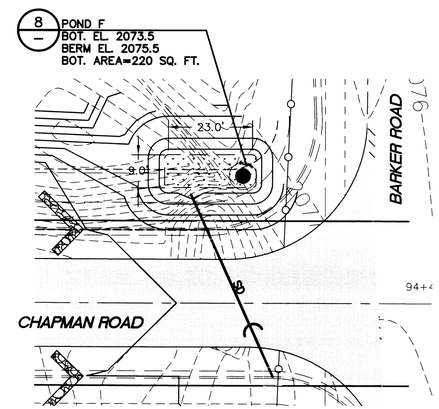
5/5 STORMWATER POND D

STA. 83+00 (LEFT SIDE)



6/5 STORMWATER POND E

STA. 89+00 (LEFT SIDE)



7/5 STORMWATER POND F

STA. 93+50 (LEFT SIDE)

NORTH

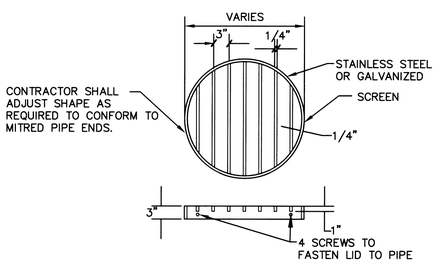
20 10 0 20 40

SCALE 1" = 20' FEET

NOTE:

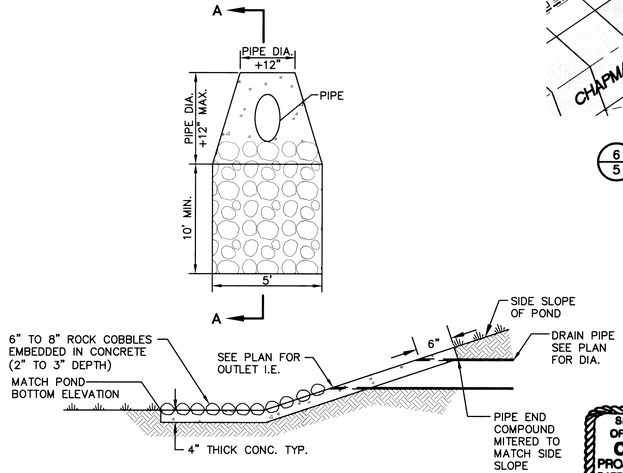
1. STORMWATER POND DETAILS ARE DRAWN TO 1"=20' SCALE AND ARE ORIENTATED WITH NORTH BEING UPWARD.

2. DRYWELLS AND STORM PIPING SHOWN TO BE INSTALLED AS PART OF THIS INTERIM ROAD & DRAINAGE PACKAGE.



2/– TRASH RACK

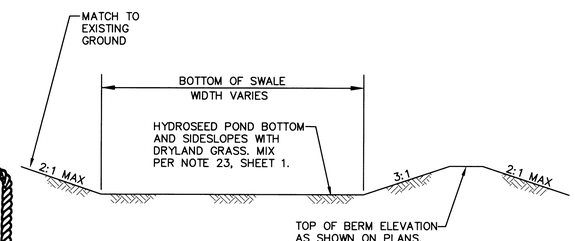
NOT TO SCALE



SECTION A-A

3/– RIP RAP PAD

NOT TO SCALE



8/– TYPICAL DETENTION POND

NOT TO SCALE

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-19620
DATE ACCEPTED: 08-22-13
ACCEPTANCE EXPIRES: 08-22-15
PROJECT LANE MILES PUBLIC: 1.90
PROJECT LANE MILES PRIVATE: 0
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	Date
GHF, BDB	8/13
Designed	
LDG	8/13
Checked	
MAA	8/13

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 8/21/13

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 UTILITIES
W. 1026 Broadway Ave.
Spokane Wa. 99260
477-3604

VERTICAL DATUM: #4 REBAR W/ YPC AT INTERSECTION OF APOLLO RD. AND SELKIRK DR. EL.=2296.74(NAVD 88)

CADD FILE NAME: 05162-RG6-POND DET.dwg

50 25 0 50 100
SCALE FEET

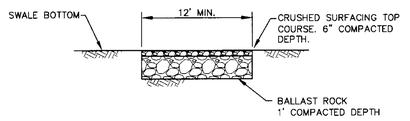
SCALE
HORIZ. 1"=50'
VERT. 1"=10'

CHAPMAN ROAD

CHAPMAN ROAD EXTENSION
ROAD PAVING PACKAGE
POND DETAIL SHEET

ROAD
SHEET 9/10

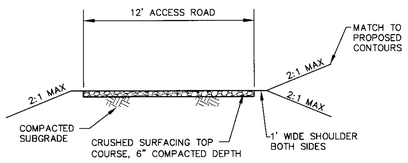
P-1962 ENG Road+Drainage



ACCESS ROAD SECTION (POND BOTTOM ONLY)

A / –

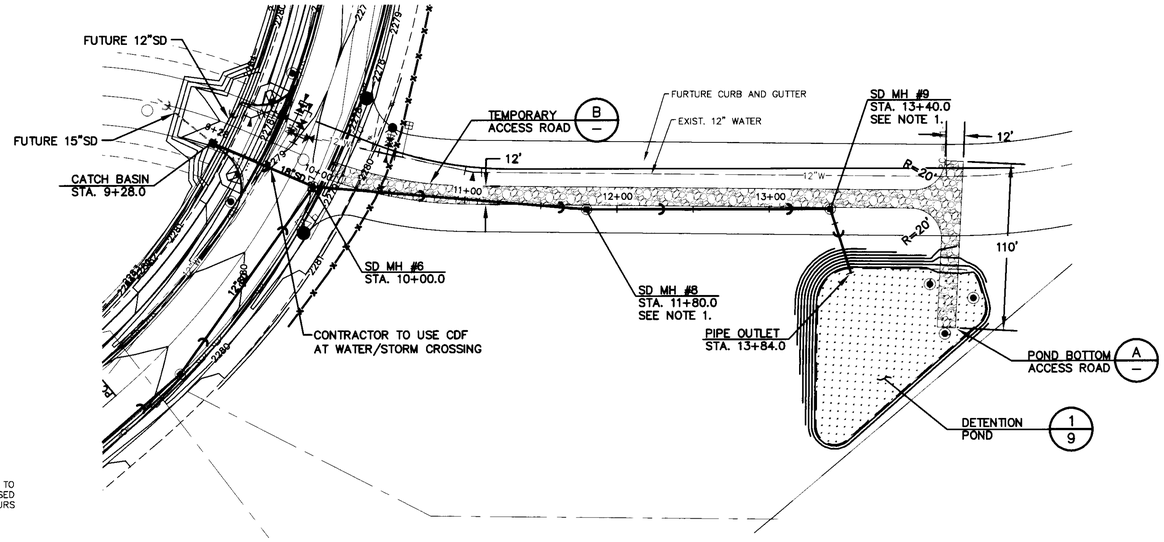
NOT TO SCALE

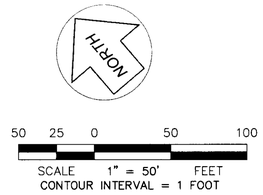


TEMPORARY ACCESS ROAD SECTION

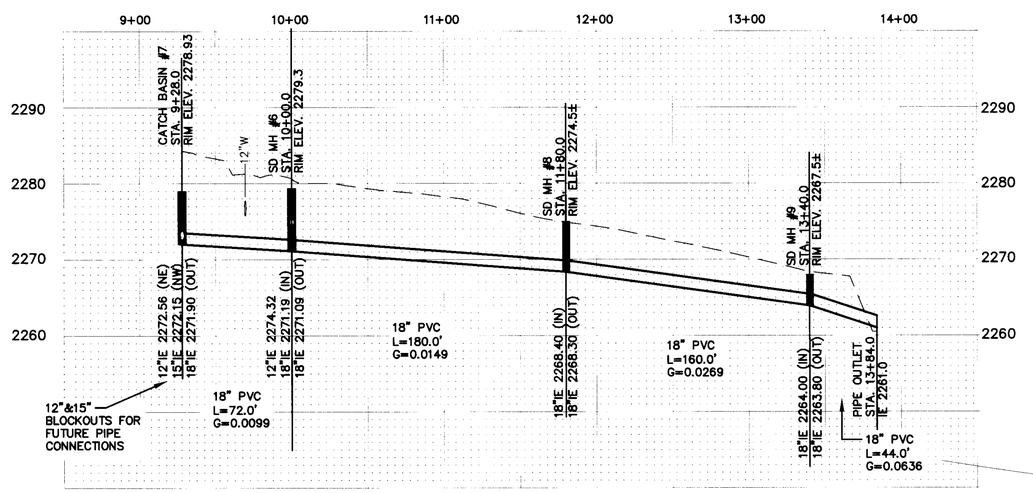
B / –

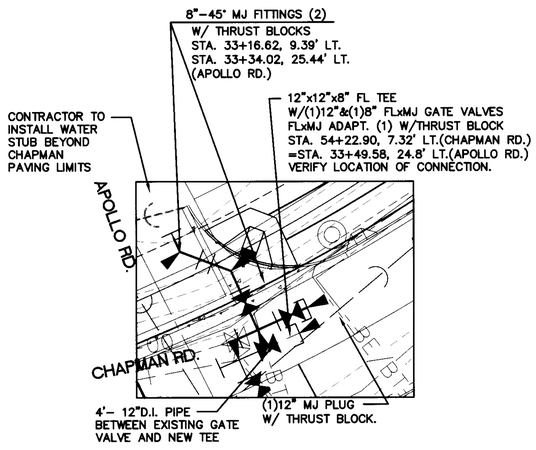
NOT TO SCALE





NOTE:
1. CONCRETE STRUCTURES FOR STORM DRAIN MANHOLES #8 AND #9 SHALL BE SET MIN. 1.0 FT BELOW EXISTING GRADE. PROVIDE SOLID LID FOR ACCESS DURING TEMPORARY CONDITION.



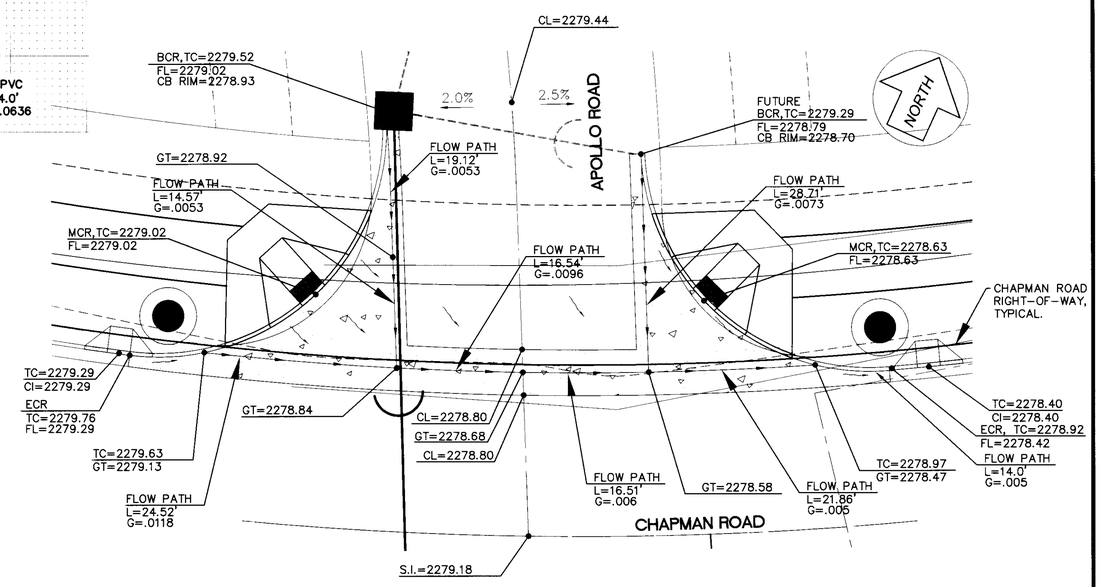


NEW WATER CONNECTION TO EXISTING SYSTEM

1 / 2

NOT TO SCALE

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 05162B
DATE ACCEPTED: 11-13-13
ACCEPTANCE EXPIRES: 11-13-15
PROJECT LANE MILES PUBLIC: .42
PROJECT LANE MILES PRIVATE: 0
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 / CHAPMAN ROAD

2 / 2

SCALE: 1" = 10'

Developer's Approval _____ *Date* 11-11-13

No.	Date	By	Ckd.	Appr.	Revisions
1	9.16.13	BDB	LDG		ADDED WATER CROSSING INFORMATION

Drawn	GHF, BDB	*Date* 8/13
Designed	LDG	8/13
Checked	MAA	8/13

MARK A. ARONSON — STATE OF WASHINGTON — 24681 REGISTERED PROFESSIONAL ENGINEER — 11-11-13

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 UTILITIES
W. 1026 Broadway Ave.
Spokane Wa. 99260
477-3604

VERTICAL DATUM: #4 REBAR W/ YPC AT INTERSECTION OF APOLLO RD. AND SELKIRK DR. EL.=2296.74(NAVD 88)

CADD FILE NAME: 05162B\05162-(10)-STORM PnP

50 25 0 50 100
SCALE FEET

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

CHAPMAN ROAD

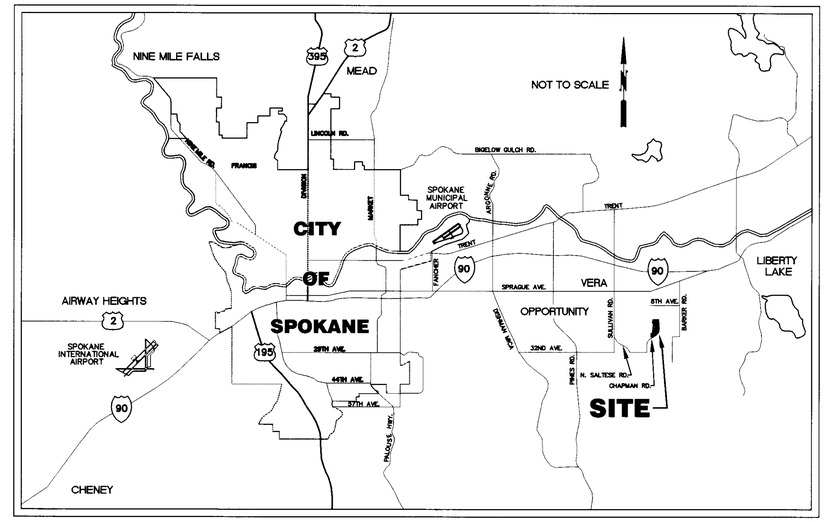
CHAPMAN ROAD EXTENSION
STORM DRAIN PLAN AND PROFILE

ROAD
SHEET 10 / 10

MORNINGSIDE HEIGHTS 7TH ADDITION

SPOKANE COUNTY, WASHINGTON

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



LOCATION MAP

SCHEDULE OF DRAWINGS

SHEET NO. DESCRIPTION

GENERAL

1 ..... COVER

ROAD

1.1 ..... ROAD INDEX
2 ..... DAYSTAR ROAD - STA. 25+76.15 TO STA. 33+66.29
3 ..... APOLLO ROAD - STA. 30+66.58 TO STA. 33+56.35
ROAD DETAILS

DRAINAGE

4 ..... DAYSTAR ROAD - STA. 29+50 TO STA. 33+66.25
APOLLO ROAD - STA. 31+64.48 TO STA. 33+45.56
5 ..... EROSION CONTROL PLAN
6 ..... STORMWATER AND EROSION CONTROL DETAILS

FOR REFERENCE ONLY

10/10 ..... CHAPMAN ROAD STORM DRAIN

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 "2006 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.
12. HOT MIX ASPHALT (HMA) SHALL BE WSDOT HMA CLASS 1/2-INCH W/PERFORMANCE GRADED ASPHALT BINDER PG64-28 AND COMPACTED TO 92% OF THE THEORETICAL MAXIMUM DENSITY AS DETERMINED BY THE RICE METHOD.
13. 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.
14. 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.
15. 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%.
16. FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC (AMOCO 4545 OR APPROVED EQUIVALENT) BETWEEN THE WASHED DRAIN ROCK AND THE NATIVE SOIL.
17. 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.
18. THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO VERIFY THAT THE CROSS-GUTTER FORMS ARE AT THE CORRECT PLANE GRADE PRIOR TO CONCRETE PLACEMENT. THE CROSS-GUTTER SHALL BE CONSTRUCTED PRIOR TO PAVING, AND THE PAVEMENT SHALL THEN MATCH THE EDGE OF CONCRETE GUTTER.
19. ONSITE GRADING SHALL BE IN ACCORDANCE WITH THE APPROVED GRADING PLAN AND ESC PLAN. ANY IMPORT OR EXPORT OF MATERIAL SHALL BE FROM A PREAPPROVED SOURCE/DESTINATION AND COORDINATED WITH THE SPOKANE COUNTY DEPARTMENT OF BUILDING AND PLANNING AT 477-3675. GRADING ON THIS SITE OR ANY OTHER SITE MUST COMPLY WITH ALL DEVELOPMENT REGULATIONS INCLUDING, BUT NOT LIMITED TO, GRADING PERMITS, SEPA REVIEW, TIMBER HARVEST PERMITS, CRITICAL AREAS, FLOODPLAINS, DESIGNATED DRAINAGEWAYS, ECT.

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

	PLAT BOUNDARY		PLAT BOUNDARY
	EXISTING LOT LINE		PROPOSED LOT LINES
2285	EXISTING CONTOUR		PROPOSED CURB & GUTTER
	EASEMENT LINE		PROPOSED SIDEWALK
BT	EXISTING BURIED TELEPHONE	W	PROPOSED WATER LINE
G	EXISTING BURIED GAS PIPELINE		PROPOSED WATER SERVICE
OE	EXISTING OVERHEAD ELECTRICAL	SS	PROPOSED SANITARY SEWER
x — x — x — x	EXISTING FENCE		PROPOSED SANITARY SEWER SERVICE
W	EXISTING WATER LINE	SD	PROPOSED STORM DRAIN LINE
SS	EXISTING SEWER LINE		PROPOSED DRAINAGE FLOW
SD	EXISTING STORM DRAIN LINE	2160	FINISH CONTOUR
	EXISTING WATER VALVE	2300	FINISH GRADE ELEVATION
	EXISTING WATER FITTING (TYP.)		PROPOSED WATER VALVE
	EXISTING WATER METER AND SERVICE		PROPOSED WATER FITTING (TYP.)
	EXISTING FIRE HYDRANT		PROPOSED CONCRETE THRUST BLOCK
	EXISTING SS MANHOLE		PROPOSED FIRE HYDRANT
CB	EXIST. CATCH BASIN		PROPOSED SS MANHOLE
	EXISTING STORM MANHOLE		PROPOSED STORM CATCH BASIN
DW	EXIST. DRYWELL		PROPOSED STORM MANHOLE
CO	EXISTING CLEAN OUT		PROPOSED DRYWELL
	EXISTING SIGN		PROPOSED CLEAN OUT
			PROPOSED SIGN
			PROPOSED CURB INLET
			T.B.M.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1962D
DATE ACCEPTED: 11-13-13
ACCEPTANCE EXPIRES: 11-13-15
PROJECT LANE MILES PUBLIC: .42
PROJECT LANE MILES PRIVATE: 0
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

* See Chapman Rd. plans (10 sht.) revised ~~for~~ + accepted 08-27-13 for frontage improvements on this plat.

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

Developer's Approval _____ Date 11-11-13

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER
EXPIRES 11-11-13

REVISIONS

DWN: BDB DATE: 9/2013
CK'D: MAA DATE: 4/14/08

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

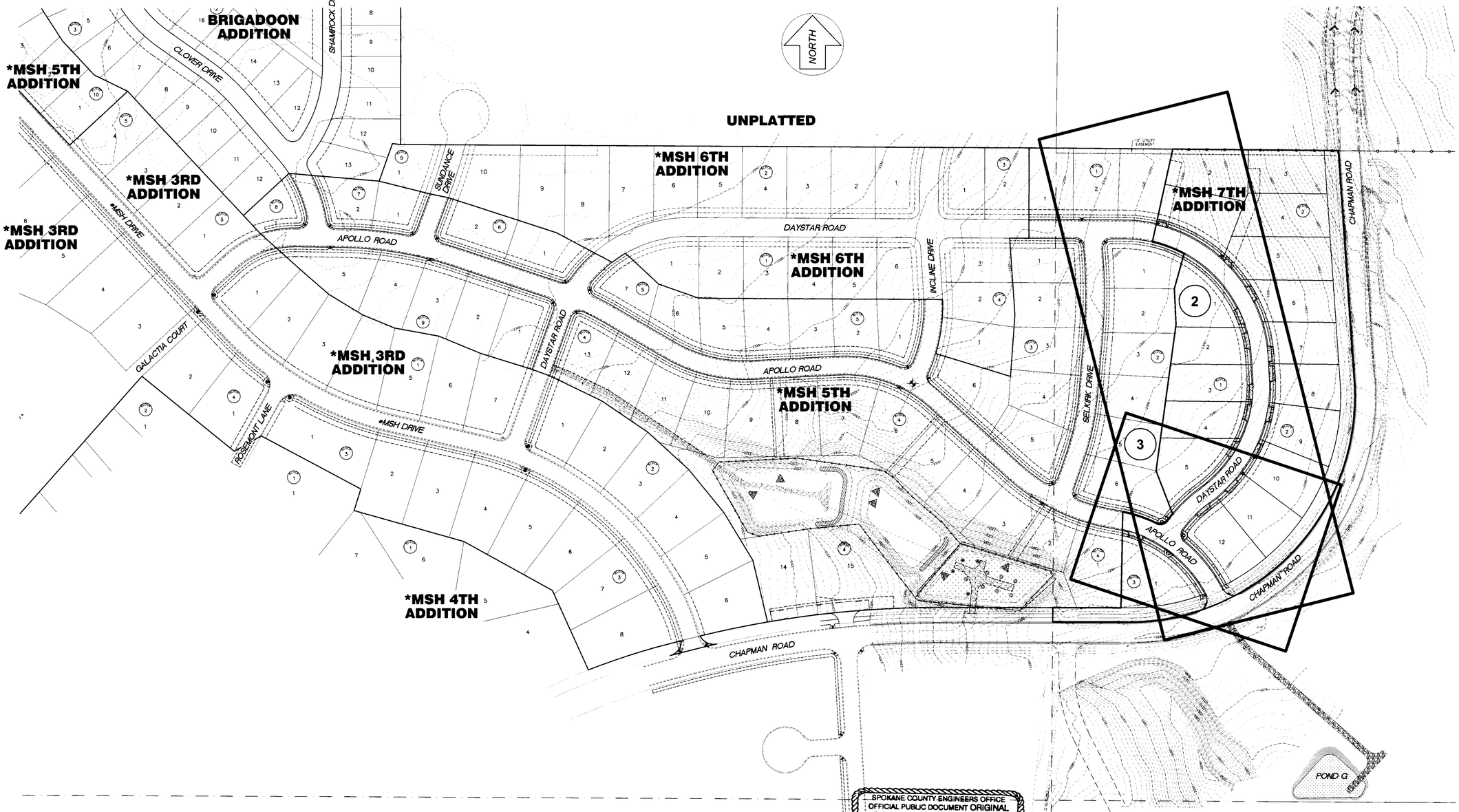
SCALE: N/A

1 / 6

MORNINGSIDE HEIGHTS
SEVENTH ADDITION
COVER SHEET

RD07036(1)-COVER.dwg

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



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-19620
DATE ACCEPTED: 11-13-13
ACCEPTANCE EXPIRES: 11-13-15
PROJECT LANE MILES PUBLIC: .92
PROJECT LANE MILES PRIVATE: 0
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

ABBREVIATIONS

*MSH ..... MORNINGSIDE HEIGHTS

Developer's Approval _____ Date 11-11-13

No.	Date	By	Ckd.	Appr.	Revisions

Drawn:	BDB	9/2013
Designed:	BAN	4/14/08
Checked:	MAA	9/2013

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 11-11-13

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

VERTICAL DATUM: #4 REBAR WITH YPC SET AT INTERSECTION OF INCLINE DRIVE AND APOLLO ROAD. EL.=2319.23 (NAVD 88)

CADD FILE NAME: RD07036(1.1)-INDEX.dwg

100 50 0 100 200
SCALE FEET

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

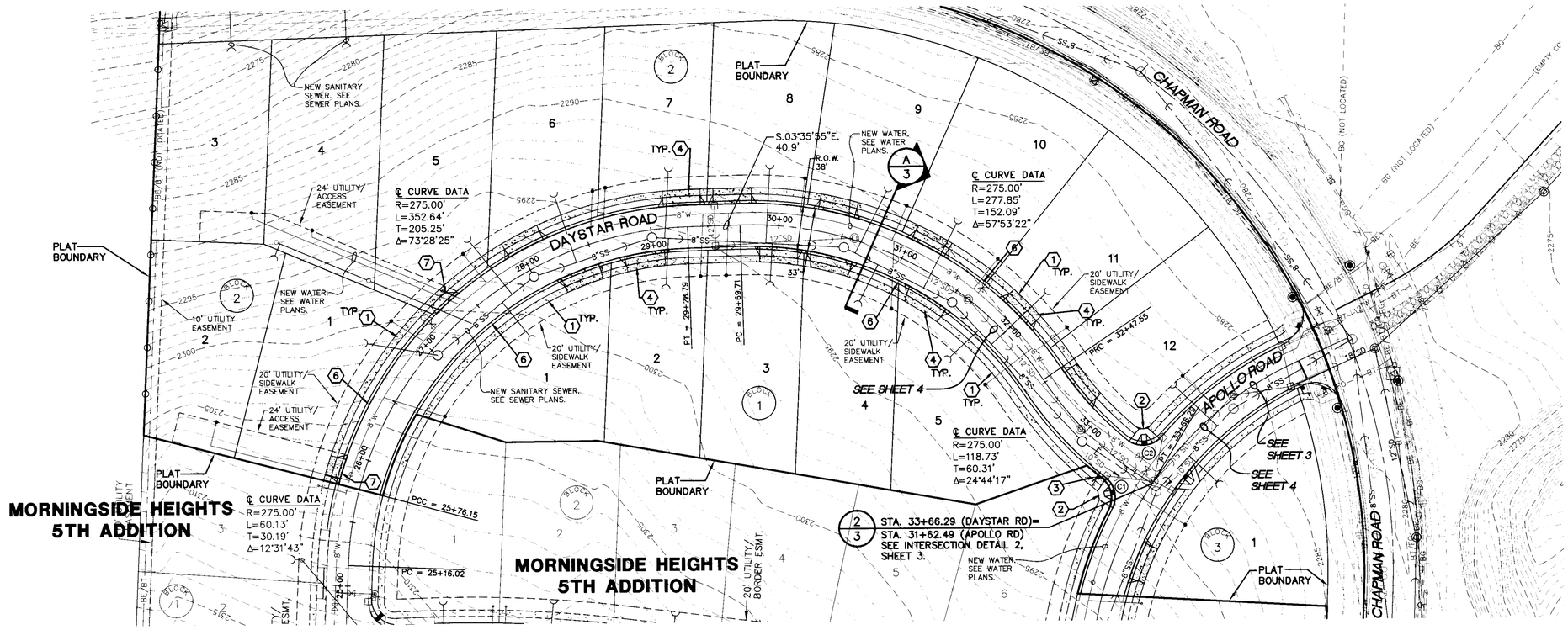
MORNINGSIDE HEIGHTS
SEVENTH ADDITION

ROAD INDEX

1.1 / 6

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

NAVD 88 DATUM

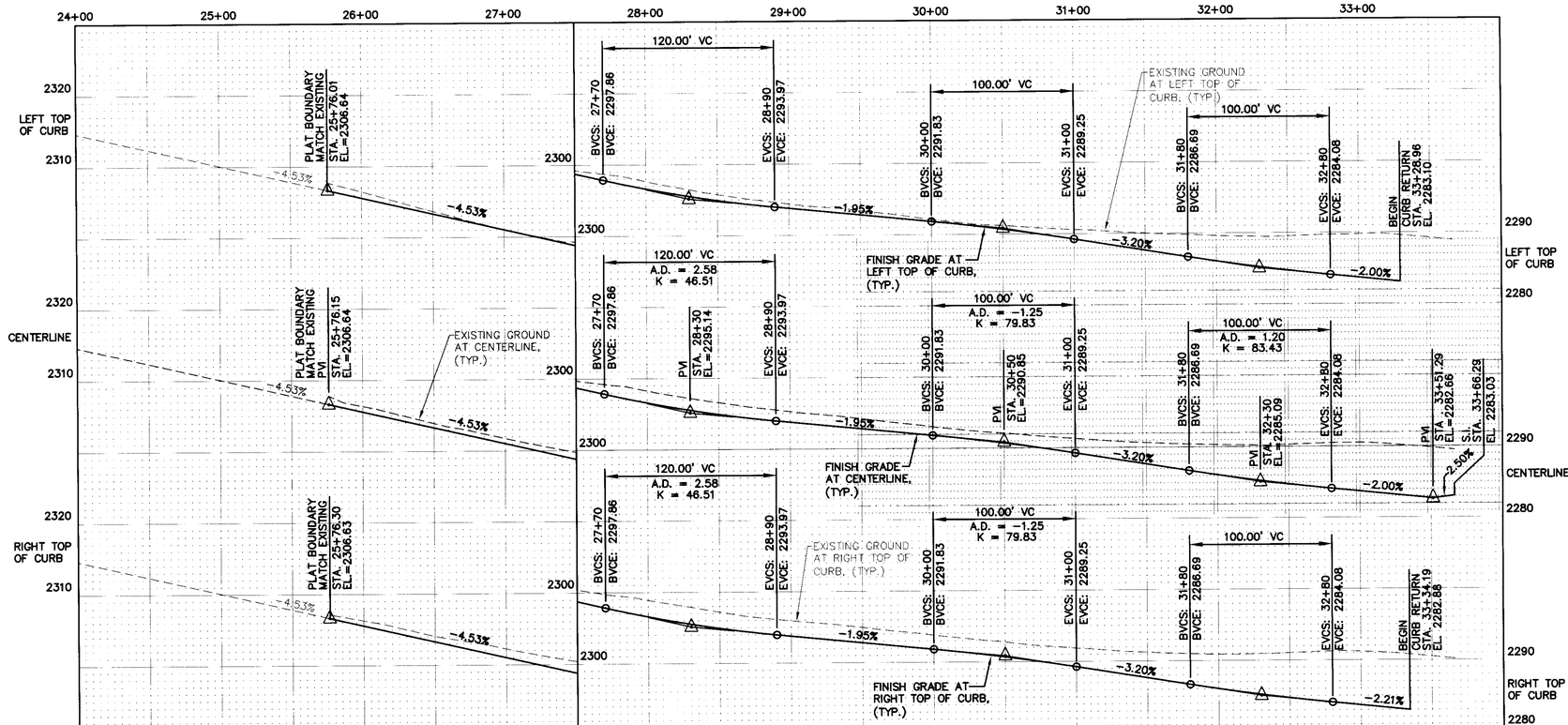
CURVE TABLE AT FACE OF CURB

CURVE	RADIUS	LENGTH	DELTA
C1	20.00'	27.82'	79°42'04"
C2	20.00'	30.68'	87°53'47"

CONSTRUCTION NOTES

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

1. 5' WIDE CONCRETE SIDEWALK PER STANDARD SHEET A-4.
2. WHEEL CHAIR RAMP PER STANDARD SHEET A-5, DESIGN 'B'.
3. SIGN POST W/STREET SIGN PER STANDARD SHEET A-16.
4. 30' WIDE DRIVEWAY PER SPOKANE COUNTY STD. PLAN A-4.
5. "NOT USED."
6. SPOKANE COUNTY TYPE "B" CONCRETE CURB AND GUTTER PER STANDARD PLAN A-3.
7. 16' WIDE DRIVEWAY PER SPOKANE COUNTY STD. PLAN A-4.



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-19620
DATE ACCEPTED: 11-13-13
ACCEPTANCE EXPIRES: 11-13-15
PROJECT LANE MILES PUBLIC: 42
PROJECT LANE MILES PRIVATE: 0
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 [illegible]

Developer's Approval _____ Date 11-11-13

No.	Date	By	Ckd.	Appr.	Revisions

		Date
Drawn:	BDB	9/2013
Designed:	BAN	4/14/08
Checked:	MAA	9/2013

MARK A. AROMSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 11-11-13

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

VERTICAL DATUM: #4 REBAR WITH YPC SET AT INTERSECTION OF INCLINE DRIVE AND APOLLO ROAD. EL.=2319.23 (NAVD 88)

CADD FILE NAME: RD07036(2)-DAYSTAR RD.dwg

50 25 0 50 100
SCALE FEET

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

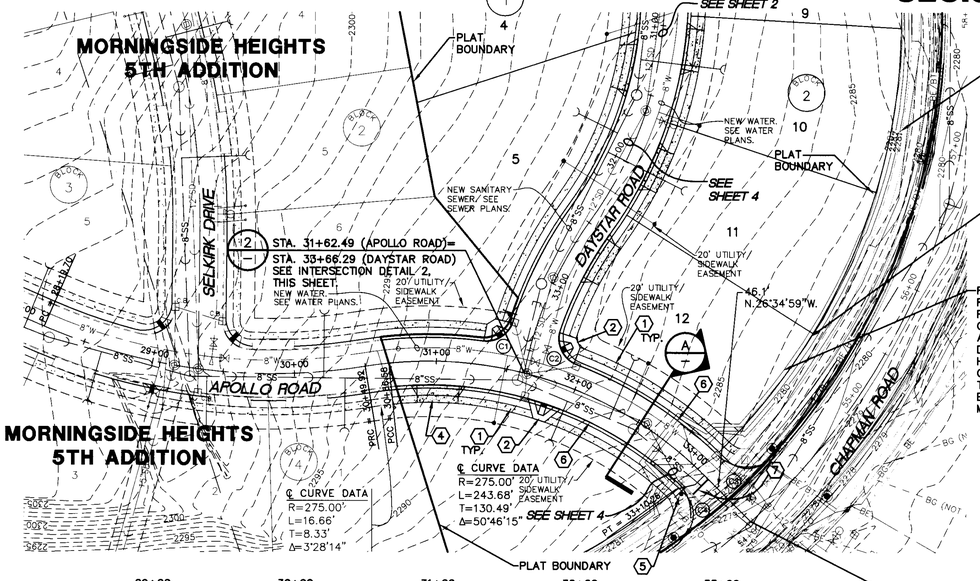
MORNINGSIDE HEIGHTS SEVENTH ADDITION

DAYSTAR ROAD
25+76.15 TO STA. 33+66.29

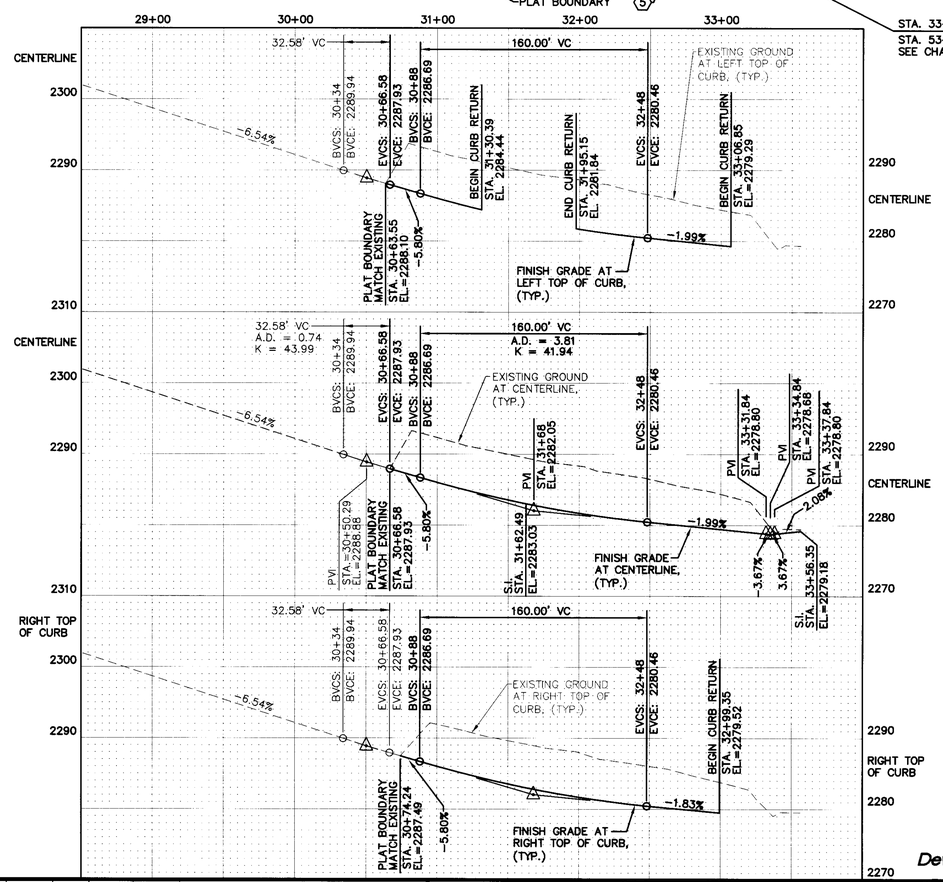
ROAD
SHEET 2 / 6

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



NOT USED



NORTH

NAVD 88 DATUM

CURVE TABLE AT FACE OF CURB

CURVE	RADIUS	LENGTH	DELTA
C1	20.00'	27.82'	79°42'04"
C2	20.00'	30.68'	87°53'47"
C3	30.00'	48.38'	92°23'54"
C4	30.00'	53.21'	101°37'10"

CONSTRUCTION NOTES

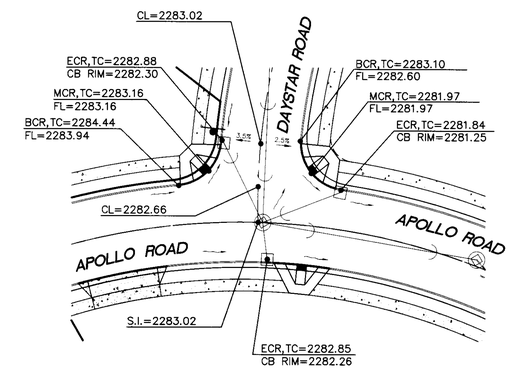
ALL DETAILS SHALL BE PER SPOKANE COUNTY STANDARDS UNLESS OTHERWISE NOTED.

1. 5' WIDE CONCRETE SIDEWALK PER STANDARD SHEET A-4.
2. WHEEL CHAIR RAMP PER STANDARD SHEET A-5, DESIGN 'B'.
3. SIGN POST W/STREET SIGN PER STANDARD SHEET A-16.
4. 30' WIDE DRIVEWAY PER SPOKANE COUNTY STD. PLAN A-4.
5. 30"x30" STOP SIGN(MUTCD R1-1) PER MUTCD STANDARDS ON SIGN POST WITH STREET SIGN PER STANDARD SHEET A-16.
6. SPOKANE COUNTY TYPE "B" CONCRETE CURB AND GUTTER PER STANDARD PLAN A-3.
7. 12" WIDE WHITE STOP LINE PER MUTCD STANDARDS.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-16212
DATE ACCEPTED: 11-11-13
ACCEPTANCE EXPIRES: 11-13-15
PROJECT LANE MILES PUBLIC: 42
PROJECT LANE MILES PRIVATE: 4
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) 477-3000
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

1/1 INTERSECTION - APOLLO ROAD / CHAPMAN ROAD

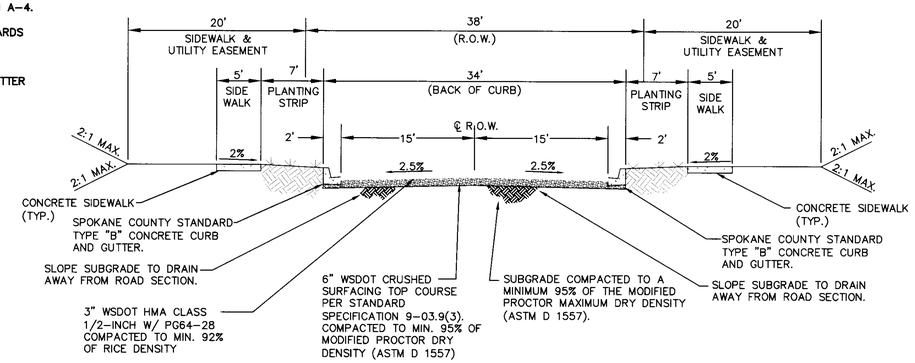
SCALE: 1" = 10'



NORTH

2/2,3 INTERSECTION - APOLLO ROAD / DAYSTAR ROAD

SCALE: 1" = 30'



A/2,3 TYPICAL ROAD SECTION

N.T.S

Developer's Approval _____ Date 11-11-13

No.	Date	By	Ckd.	Appr.	Revisions

		Date
Drawn:	BDB	9/2013
Designed:	BAN	4/14/08
Checked:	MAA	9/2013

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 11-11-13

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

VERTICAL DATUM: #4 REBAR WITH YPC SET AT INTERSECTION OF INCLINE DRIVE AND APOLLO ROAD. EL.=2319.23 (NAVD 88)

CADD FILE NAME: RD07036(3)-APOLLO RD & DET'S.dwg

50 25 0 50 100
SCALE FEET

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

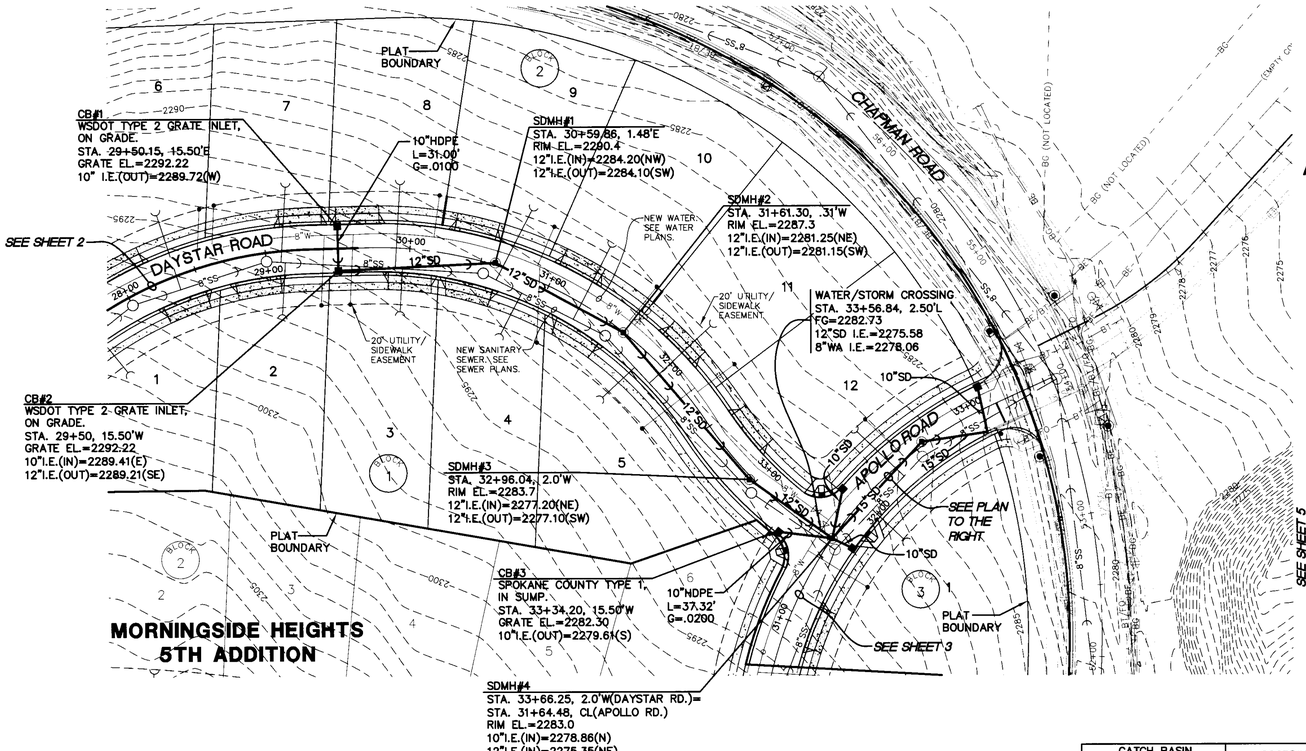
MORNINGSIDE HEIGHTS SEVENTH ADDITION

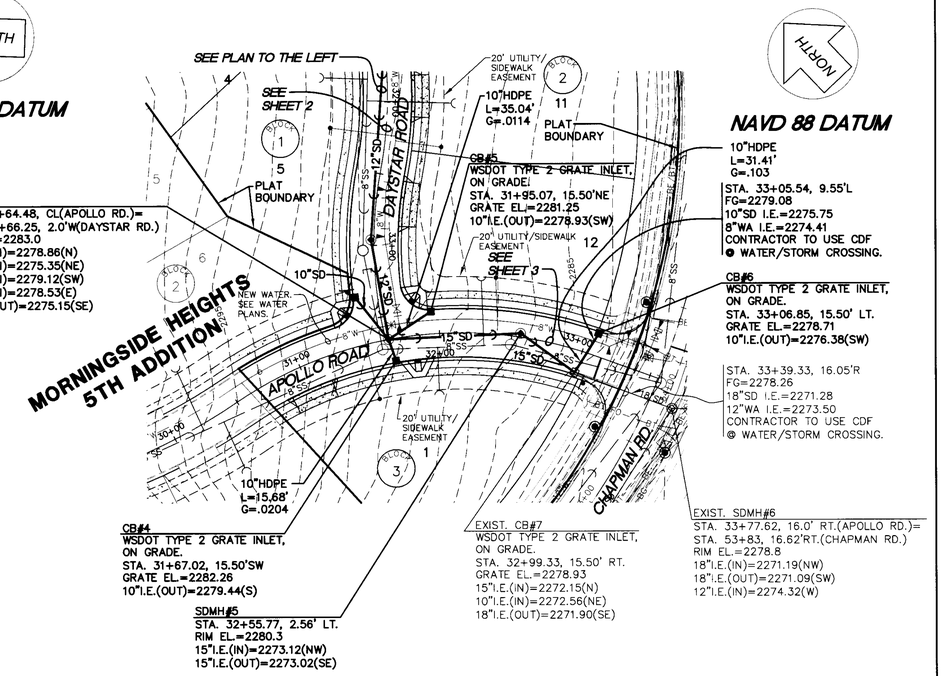
APOLLO ROAD
STA. 30+66.58 TO STA. 33+56.35
AND
ROAD DETAILS

ROAD
SHEET 3 / 6

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



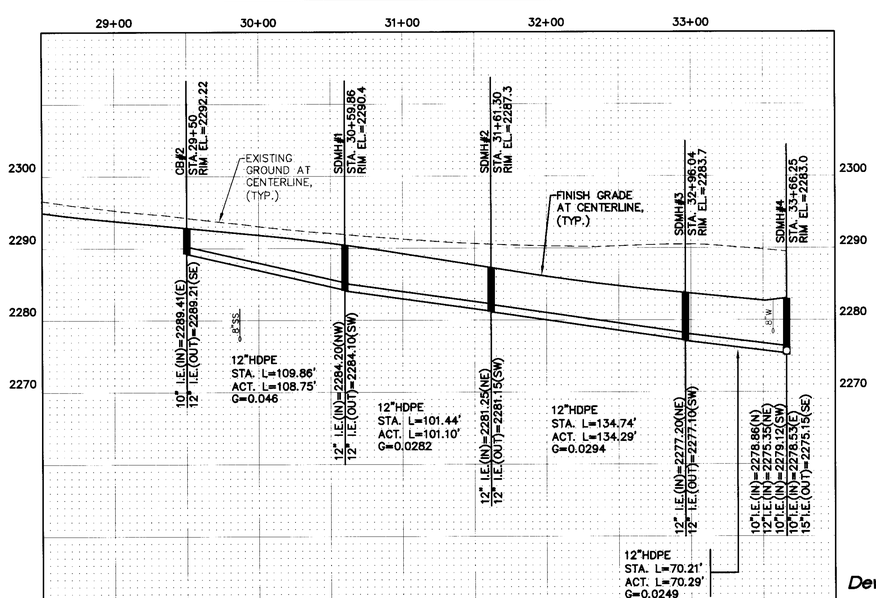


CATCH BASIN & MANHOLE SCHEDULE		COORDINATES	
NO.	TYPE	NORTHING	EASTING
SDMH #1	I-48	5701.21	7644.10
SDMH #2	I-48	5610.94	7598.60
SDMH #3	I-48	5520.13	7499.66
SDMH #4	I-48	5461.60	7460.75
SDMH #5	I-48	5401.72	7529.71
EX. SDMH #6	I-48	5311.78	7550.97
CB #1	TYPE 2	5811.38	7665.98
CB #2	TYPE 2	5809.58	7635.03
CB #3	TYPE 1	5499.67	7464.65
CB #4	TYPE 2	5447.30	7454.31
CB #5	TYPE 2	5455.50	7495.26
CB #6	TYPE 2	5364.29	7568.95
EX. CB #7	TYPE 2	5356.33	7538.07

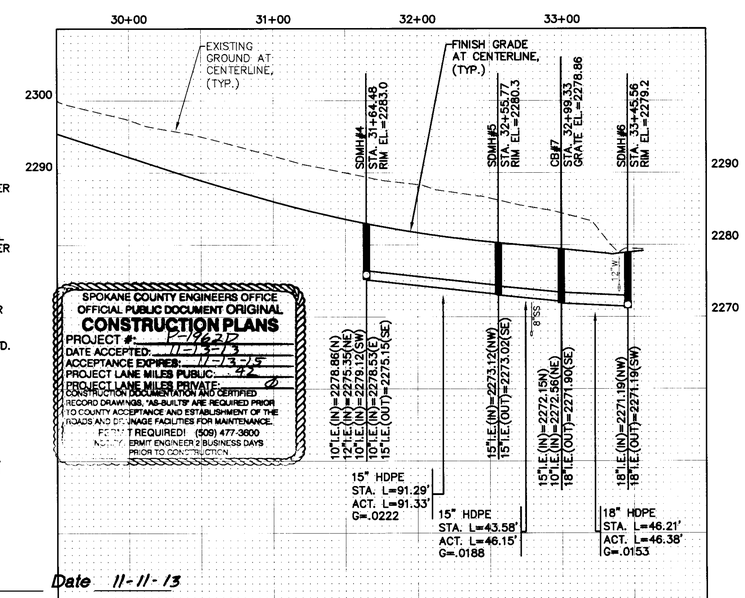
NOTES:

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, ON GRADE PER WSDOT STD. PLAN B-35.40-00. INLET TO BE INSTALLED WITH "NORMAL" ORIENTATION. FRAME AND VANED GRATES FOR TYPE 2 GRATE INLET PER WSDOT PLAN B-40.40-00.
4. STORM DRAIN MANHOLE TYPE I-48 PER SPOKANE COUNTY STD. PLAN U-2 WITHOUT CHANNEL AND WITH A 1' MINIMUM SUMP BELOW LOWEST PIPE INVERT ELEVATION.
5. STORM DRAIN MANHOLE TYPE III-48 PER SPOKANE COUNTY STD. PLAN U-5 WITHOUT CHANNEL AND WITH A 1' MINIMUM SUMP BELOW LOWEST PIPE INVERT ELEVATION.
6. CATCH BASIN OFFSET DISTANCES NOTED ARE FROM ROAD CENTERLINE TO 1' INSIDE FACE OF CURB. CONTRACTOR SHALL ADJUST THIS DISTANCE FOR PROPER INSTALLATION OF CATCH BASIN PER STD. PLAN B-7.

DAYSTAR ROAD



APOLLO ROAD



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 5-18637
DATE ACCEPTED: 11-13-13
ACCEPTANCE EXPIRES: 11-13-15
PROJECT LANE MILES PUBLIC: 42
PROJECT LANE MILES PRIVATE: 0
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

Developer's Approval _____ Date 11-11-13

No.	Date	By	Ckd.	Appr.	Revisions

Drawn: BDB 9/2013
Designed: BAN 4/14/08
Checked: MAA 9/2013

MARK A. ARONSON, STATE OF WASHINGTON, 24681, REGISTERED PROFESSIONAL ENGINEER
EXPIRES 11-11-13

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

VERTICAL DATUM: #4 REBAR WITH YPC SET AT INTERSECTION OF INCLINE DRIVE AND APOLLO ROAD. EL.=2319.23 (NAVD 88)

CADD FILE NAME: SD07036(2)-DAYSTAR & APOLLO.dwg

50 25 0 50 100
SCALE FEET

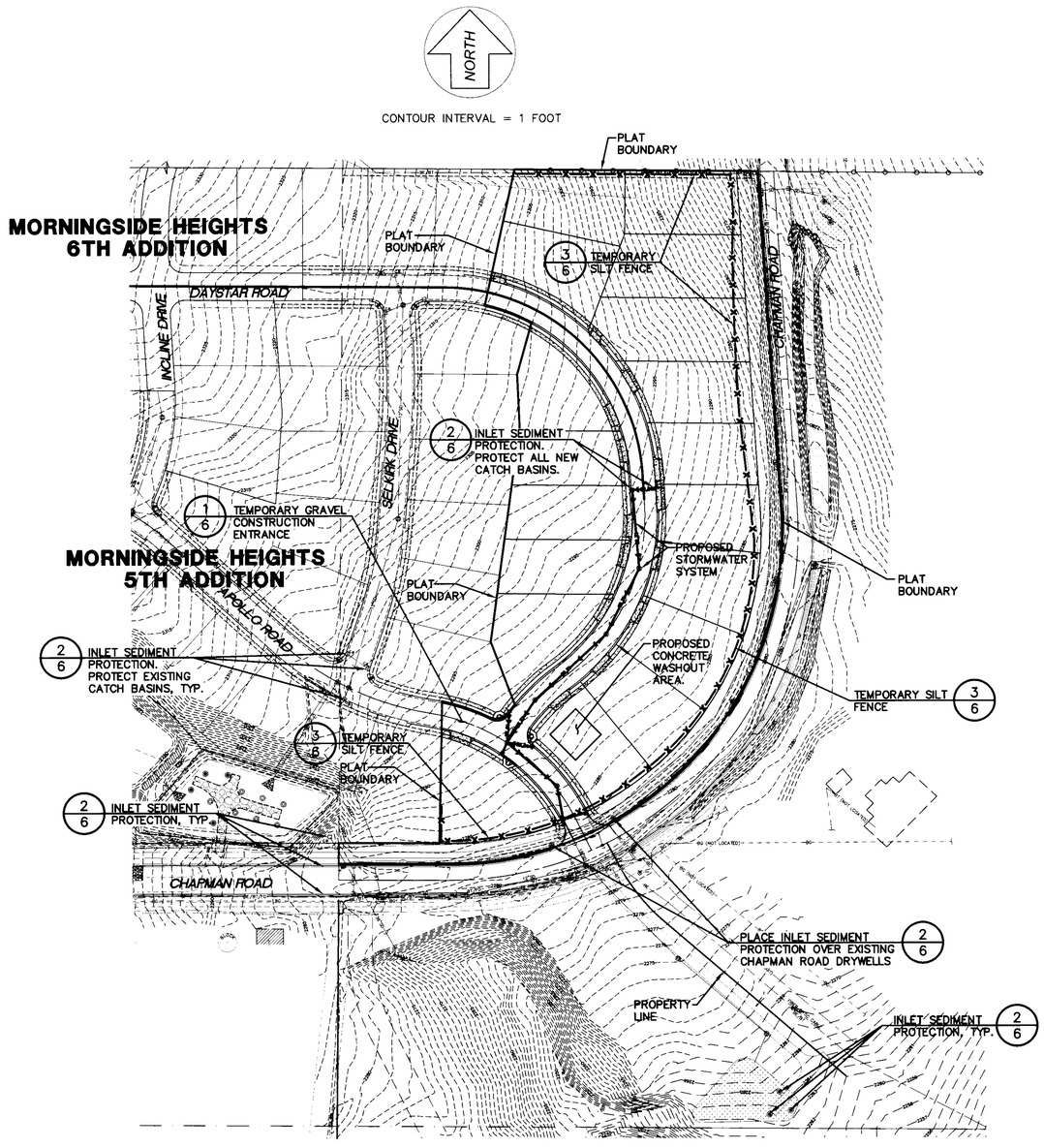
SCALE
HORIZ. 1"=50'
VERT. 1"=10'

MORNINGSIDE HEIGHTS
SEVENTH ADDITION

DAYSTAR ROAD
STA. 29+50 TO STA. 33+66.25
AND
APOLLO ROAD
STA. 31+64.48 TO STA. 33+45.56

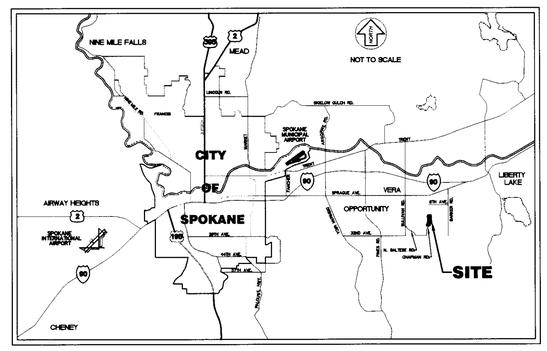
STORM
SHEET 4 / 6

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



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 9.
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.



VICINITY MAP

EROSION CONTROL NOTES CONT'D:

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.
20. ONSITE GRADING SHALL BE IN ACCORDANCE WITH THE APPROVED GRADING PLAN AND ESC PLAN. ANY IMPORT OR EXPORT OF MATERIAL SHALL BE FROM A PREAPPROVED SOURCE/DESTINATION AND COORDINATED WITH THE SPOKANE COUNTY DEPARTMENT OF BUILDING AND PLANNING AT 477-3675. GRADING ON THIS SITE OR ANY OTHER SITE MUST COMPLY WITH ALL DEVELOPMENT REGULATIONS INCLUDING, BUT NOT LIMITED TO, GRADING PERMITS, SEPA REVIEW, TIMBER HARVEST PERMITS, CRITICAL AREAS, FLOODPLAINS, DESIGNATED DRAINAGEWAYS, ECT.

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:	CHAPMAN ROAD AND APOLLO ROAD
PROJECT DESCRIPTION:	CONTINUATION OF SINGLE FAMILY RESIDENTIAL DEVELOPMENT INCLUDING PUBLIC 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
LIST OF ON-SITE SOILS:	BsB- BONG AND PHOEBE LOAMY SANDS MoC- MARBLE LOAMY SANDS PsA- PHOEBE SANDY LOAM
LEGAL DESCRIPTION:	SEE PLAT MAP.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 12-962D
DATE ACCEPTED: 11-13-13
ACCEPTANCE EXPIRES: 11-13-15
PROJECT LANE MILES PUBLIC: 42
PROJECT LANE MILES PRIVATE: 0
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 EXCAVATOR 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

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

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

Developer's Approval _____ *Date* 11-11-13

No.	Date	By	Ckd.	Appr.	Revisions

Drawn: BDB	*Date* 9/2013	
Designed: BAN	4/14/08	
Checked: MAA	9/2013	

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 11-11-13

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

VERTICAL DATUM: #4 REBAR WITH YPC SET AT INTERSECTION OF INCLINE DRIVE AND APOLLO ROAD. EL.=2319.23 (NAVD 88)

CADD FILE NAME: SD07036(8)-ERO.dwg

100 50 0 100 200
SCALE FEET

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

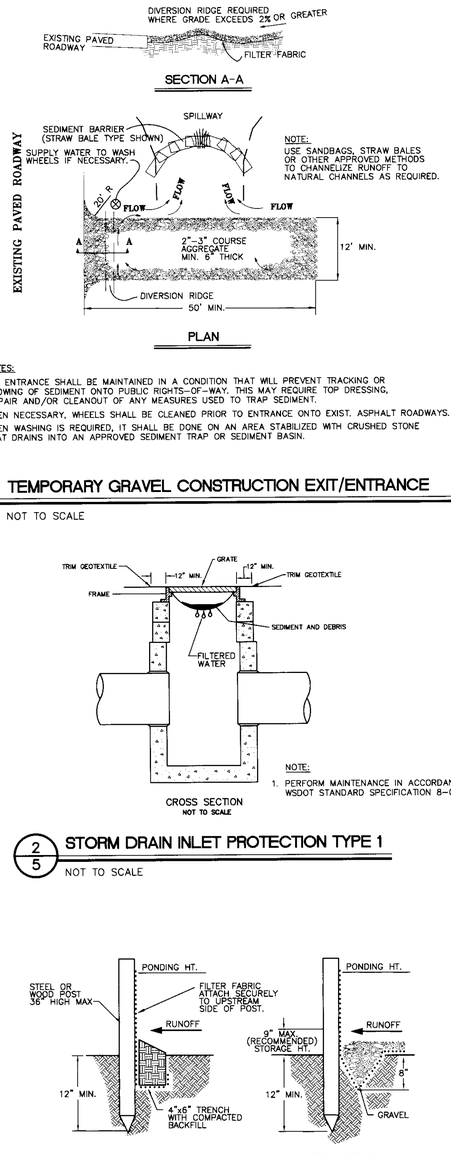
MORNINGSIDE HEIGHTS
SEVENTH ADDITION

EROSION CONTROL PLAN

STORM
SHEET 5/6

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



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

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 STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

1/5 TEMPORARY GRAVEL CONSTRUCTION EXIT/ENTRANCE

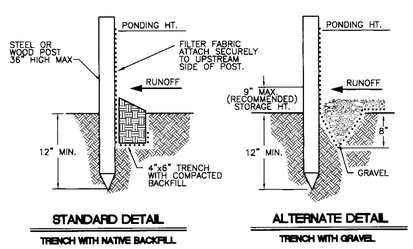
NOT TO SCALE

CROSS SECTION
NOT TO SCALE

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

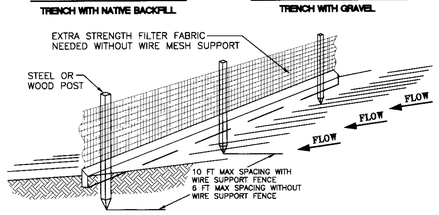
2/5 STORM DRAIN INLET PROTECTION TYPE 1

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.

3/5 SILT FENCE DETAIL

NOT TO SCALE

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-16223
DATE ACCEPTED: 11-13-13
ACCEPTANCE EXPIRES: 11-13-15
PROJECT LANE MILES PUBLIC: .92
PROJECT LANE MILES PRIVATE: 0
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

Developer's Approval _____ Date 11-11-13

No.	Date	By	Ckd.	Appr.	Revisions

		Date
Drawn:	BDB	9/2013
Designed:	BAN	4/14/08
Checked:	MAA	9/2013

MARK A. ARONSON, STATE OF WASHINGTON, 24681, REGISTERED PROFESSIONAL ENGINEER
EXPIRES 11-11-13

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

VERTICAL DATUM: #4 REBAR WITH YPC SET AT INTERSECTION OF INCLINE DRIVE AND APOLLO ROAD. EL.=2319.23 (NAVD 88)

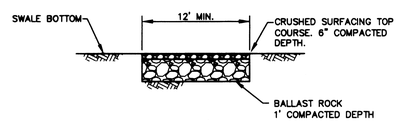
CADD FILE NAME: SD07036(9)-STWTRDETS.dwg

SCALE
HORIZ. N/A
VERT. N/A

MORNINGSIDE HEIGHTS SEVENTH ADDITION

STORMWATER AND EROSION CONTROL DETAILS

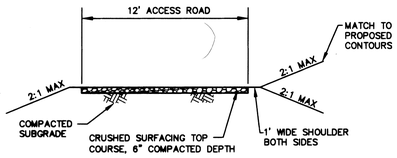
STORM SHEET 6/6



ACCESS ROAD SECTION (POND BOTTOM ONLY)

A

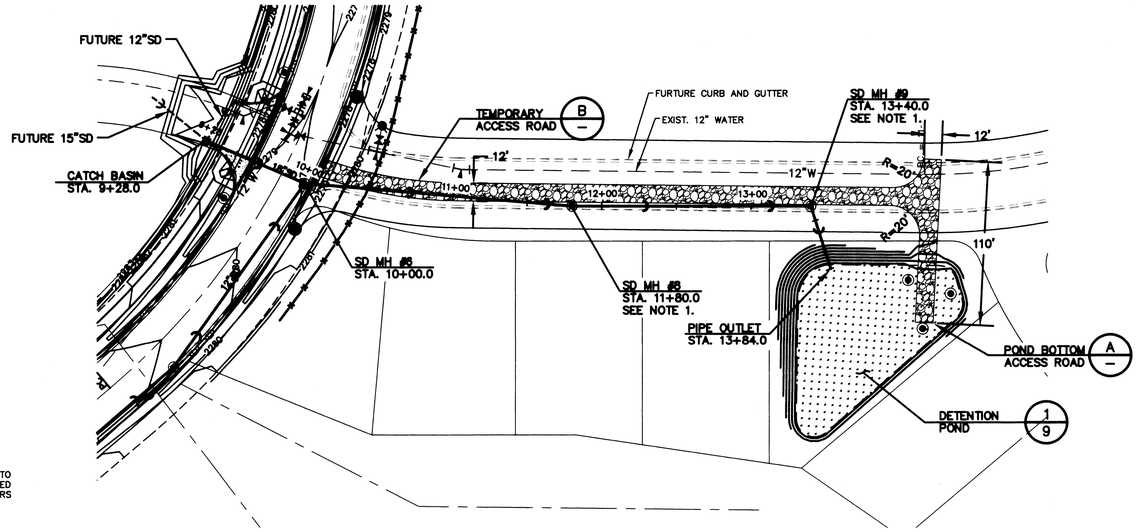
NOT TO SCALE



TEMPORARY ACCESS ROAD SECTION

B

NOT TO SCALE

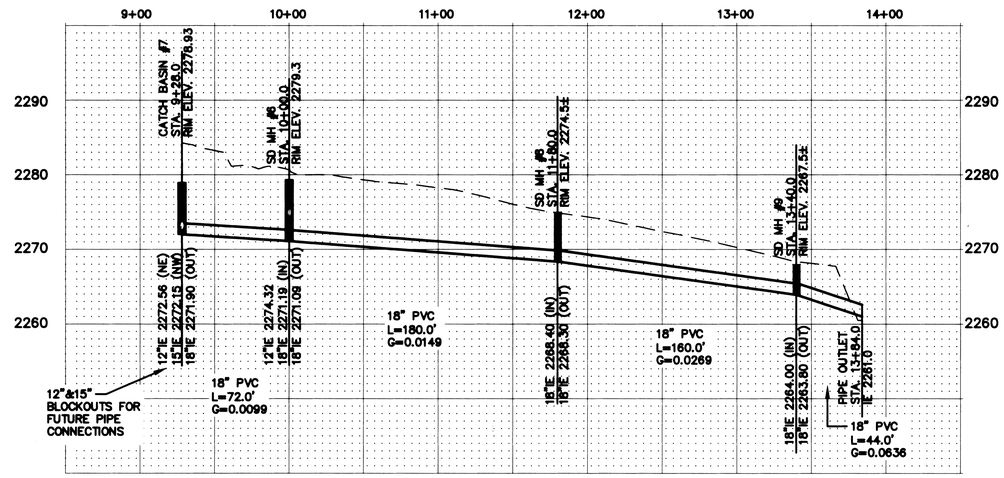


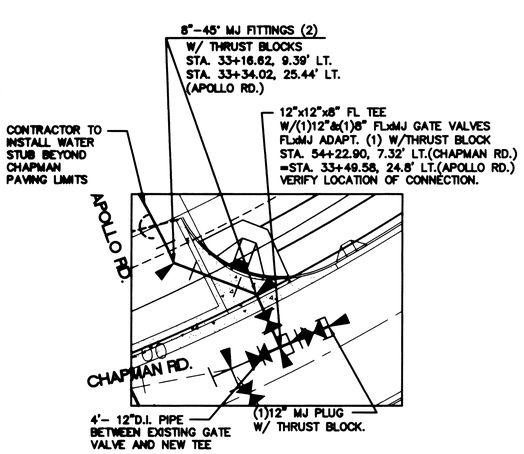
50 25 0 50 100

SCALE 1" = 50' FEET

CONTOUR INTERVAL = 1 FOOT

NOTE:
1. CONCRETE STRUCTURES FOR STORM DRAIN MANHOLES #8 AND #9 SHALL BE SET MIN. 1.0 FT BELOW EXISTING GRADE. PROVIDE SOLID LID FOR ACCESS DURING TEMPORARY CONDITION.

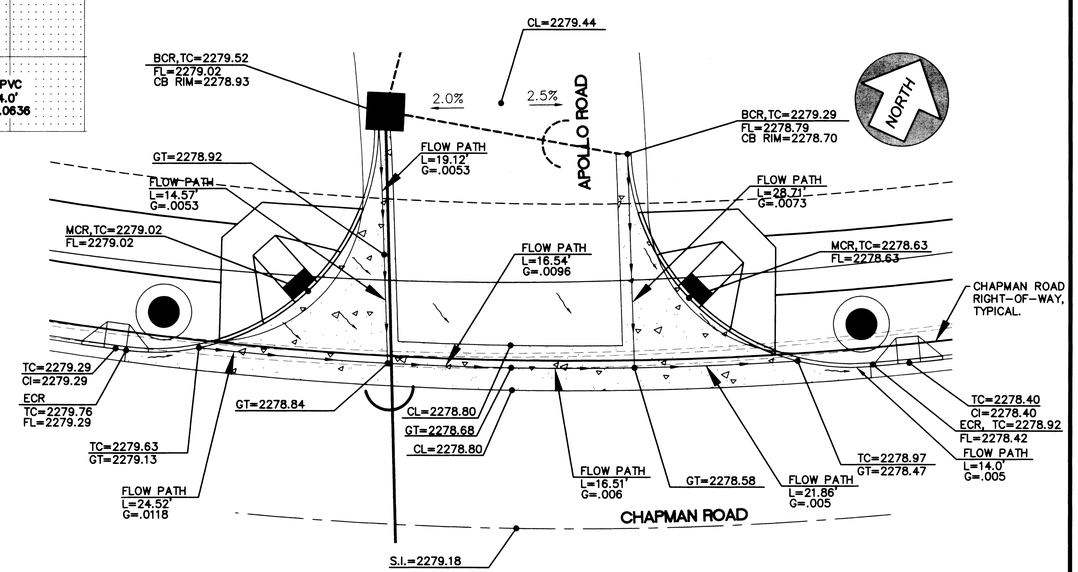




NEW WATER CONNECTION TO EXISTING SYSTEM

1/2

NOT TO SCALE



INTERSECTION - APOLLO ROAD / CHAPMAN ROAD

2/2

SCALE: 1" = 10'

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-19620
DATE ACCEPTED: 08-22-13
ACCEPTANCE EXPIRES: 08-22-15
PROJECT LANE MILES PUBLIC: 1.82
PROJECT LANE MILES PRIVATE: 0
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	GHF, BDB	Date 8/13
Designed	LDG	8/13
Checked	MAA	8/13

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 8/14/13

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 UTILITIES
W. 1026 Broadway Ave.
Spokane Wa. 99260
477-3604

VERTICAL DATUM: #4 REBAR W/ YPC AT INTERSECTION OF APOLLO RD. AND SELKIRK DR. EL.=2296.74(NAVD 88)

CADD FILE NAME: 051628\05162-(10)-STORM PnP

50 25 0 50 100
SCALE FEET

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

CHAPMAN ROAD

CHAPMAN ROAD EXTENSION
STORM DRAIN PLAN AND PROFILE

ROAD
SHEET 10 / 10

P-19620 ENG Road & Drainage