#### **GENERAL NOTES:**

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF ARLINGTON STANDARDS, THE LATEST REVISIONS OF AWWA STANDARD SPECIFICATIONS, AND THE LATEST REVISION OF STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION BY WASHINGTON STATE D.O.T. AND WASHINGTON STATE CHAPTER, A.P.W.A.
- THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF STATE AND LOCAL HEALTH AUTHORITIES.
- DEPTHS AND LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE DATA AT THE TIME OF DESIGN. CONTRACTOR SHALL POTHOLE EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY DEPTHS AT CROSSINGS AND CONNECTIONS, TYPICAL ALL SHEETS.
- THE OWNER OR OWNER'S AGENT MAY, AT ITS DISCRETION, REQUIRE TESTS AND/OR REPORTS FROM THE CONTRACTOR TO VALIDATE CLAIMS OF MATERIAL OR CONSTRUCTION ADEQUACY/COMPLIANCE. SUCH TEST/REPORTS SHALL BE PROVIDED AT THE CONTRACTOR'S EXPENSE.
- ALL EXISTING SURFACE FEATURES SUCH AS PLANTERS, LANDSCAPING. STRUCTURES, LOTS, SWALES, DITCHES, CURBS, SIDEWALKS, FENCES, WALLS, MAILBOXES, SIGNS, GUY WIRES, PIPING, AND UTILITIES DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITION, UNLESS OTHERWISE PROPOSED.
- MAINTENANCE OF THE WORK AREA AND APPROACH ROADS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE WORK AREA AND APPROACH ROADS SHALL BE MAINTAINED IN A CLEAN CONDITION, FREE FROM OBSTRUCTIONS AND HAZARDS.

- ANY CHANGE IN CONSTRUCTION AFTER PLAN APPROVAL MUST BE SUBMITTED IN WRITING AND APPROVED BY THE CITY PRIOR TO CHANGE.
- 8. THE CONTRACTOR SHALL PROVIDE "RECORD DRAWINGS" INDICATING ALL CHANGES IN GRADE, ALIGNMENT, FITTINGS, AND MATERIALS INSTALLED AND ANY OTHER UTILITIES OR OBSTACLES NOT SO INDICATED ON THESE PLANS.
- UTILITIES OR INTERFERING PORTIONS OF UTILITIES THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL SEAL AND CAP THE REMAINING EXPOSED ENDS OF ABANDONED UTILITIES WITH NON-SHRINK GROUT TO I FOOT LENGTH INTO PIPE OR ONE PIPE DIAMETER, WHICHEVER IS GREATER
- 10. OPERATION OF ALL VALVES SHALL BE PERFORMED BY AUTHORIZED CITY
- II. ALL PIPING SHALL HAVE A MINIMUM OF 3 FEET OF COVER FROM TOP OF PIPE TO STREET GRADE OR OTHER FINISHED GRADE, UNLESS OTHERWISE SHOWN OR APPROVED BY ENGINEER.
- OWNER AND OWNER'S AGENT SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF ANY REQUIRED INSPECTIONS.
- APPROVED BY THE OWNER'S AGENT.

## SITE PREPARATION KEY NOTES:

- 1 REMOVE & DISPOSE OF CULVERT
- 2 REMOVE & DISPOSE OF RETAINING WALL & CULVERT HEADWALL
- 3 REMOVE & DISPOSE OF SANITARY SEWER FORCE MAIN & RELOCATE PER DET 2, SHT
- 4 REMOVE & DISPOSE OF TREE
- 5 REMOVE & DISPOSE OF RIP-RAP BOULDERS,

## SITE PREPARATION NOTES:

- I. CONTRACTOR SHALL PROVIDE ALL OTHER SITE PREPARATION, DEMOLITION ACTIVITIES AND TEMPORARY EROSION SEDIMENT CONTROL NOT SHOWN PER 67TH AVE PHASE III RECONSTRUCTION PROJECT PLANS AS PREPARED BY HDR AND SHALL EXPAND CLEARING AND GRUBBING LIMITS AND SILT FENCE ALIGNMENT TO FACILITATE THE CONSTRUCTION OF THE CULVERT REPLACEMENT.
- 2. CITY COORDINATING RELOCATION OF SNOHOMISH PUD UTILITY POLE PRIOR TO EXCAVATION FOR CULVERT REPLACEMENT.
- 3. DURING CONSTRUCTION OF THE CULVERT REPLACEMENT. CONTRACTOR SHALL NOT EXCAVATE SOUTH OF THE LIMIT SHOWN ON THE PLAN. CONTRACTOR SHALL DESIGN SHORING AS REQUIRED TO FACILITATE CONSTRUCTION OF THE CULVERT.
- 4. CONTRACTOR TO DESIGN, FURNISH AND INSTALL TEMPORARY SUPPORT FOR EXISTING 5/8-INCH WATER SERVICE AND 4-INCH GAS MAIN. SUPPORT SHALL BE SUBMITTED TO AND APPROVED BY THE RESPECTIVE UTILITY. ALTERNATELY, THE CONTRACTOR MAY ELECT TO COORDINATE WITH CNG TO CUT AND CAP GAS MAIN TO FACILITATE THE INSTALLATION OF THE CULVERT FOLLOWED BY INSTALLATION OF A NEW GAS MAIN. ALSO, THE CONTRACTOR MAY ELECT TO COORDINATE WITH THE CITY TO CUT AND CAP WATER SERVICE TO FACILITATE THE INSTALLATION OF THE CULVERT FOLLOWED BY THE INSTALLATION OF A NEW 5/8-INCH WATER SERVICE LINE PER CITY STANDARDS. MAXIMUM DURATION OF GAS INTERRUPTION SHALL BE DETERMINED BY CNG. MAXIMUM DURATION OF WATER SERVICE INTERRUPTION SHALL BE 2 HOURS. SCHEDULE IN ADVANCE WITH THE CITY.
- 5. CONTRACTOR SHALL PROVIDE TEMPORARY BYPASS PIPING FOR THE EXISTING 8-INCH SEWER FORCE MAIN TO FACILITATE THE CONSTRUCTION OF THE CULVERT REPLACEMENT. SEE SECTION 7-I7 OF THE SPECIAL PROVISIONS FOR SPECIFIC BYPASS PIPING AND BYPASS PLAN SUBMITTAL REQUIREMENTS.
- 6. RIP RAP MAY BE REUSED AND HAND PLACED. REMOVE LOOSE MORTAR AS MUCH AS POSSIBLE PRIOR TO REUSE. CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ANY EXCESS RIP RAP.
- 7. DRIVEWAY ACCESS TO THE BUSINESSES ON 69TH AVE NE SHALL NOT BE BLOCKED FOR GREATER THAN 4 CONSECUTIVE DAYS.
- 8. CONTRACTOR SHALL DEVELOP AND SUBMIT ALL REQUIRED TRAFFIC AND PEDESTRIAN CONTROL PLANS.
- 9. STREAMBED GRAVELS WITHIN THE EXISTING CULVERT MAY BE REUSED FOLLOWING APPROVAL OF THE CITY. EXCESS STREAMBED GRAVELS REMOVED FROM PRAIRIE CREEK CAN BE HAULED AND DELIVERED AT THE CITY OF ARLINGTON AIRPORT WITH THE CITY'S PERMISSION. CONTRACTOR RESPONSIBLE FOR DISPOSAL OF ALL OTHER EXCESS

## PERMIT NOTES:

- I. CITY WILL OBTAIN HYDRAULIC PROJECT APPROVAL (HPA) FOR THE WORK SHOWN WITHIN THESE PLANS.
- 2. CONTRACTOR IS REQUIRED TO OBTAIN ALL PERMITS OR MODIFICATIONS TO ALL REQUIRED FEDERAL, STATE, AND LOCAL PERMITS INCLUDING, BUT NOT LIMITED TO, NPDES CONSTRUCTION STORMWATER PERMIT AND CITY OF ARLINGTON RIGHT OF WAY AND GRADING PERMITS.

#### SURVEY CONTROL NOTES:

I. SURVEY BASEMAP, BENCHMARKS, ALIGNMENTS BASED ON SURVEY BY HDR FOR 67TH AVENUE NE PHASE III RECONSTRUCTION PROJECT.

13. NO UNDERGROUND WORK SHALL BE "BURIED" UNTIL INSPECTED AND

NOTICE NOT MEASURE 1 THEN DRAWING NOT TO SCALE JO DATE BY REVISION

DESIGNED **HCM** DRAWN NPH CHECKED





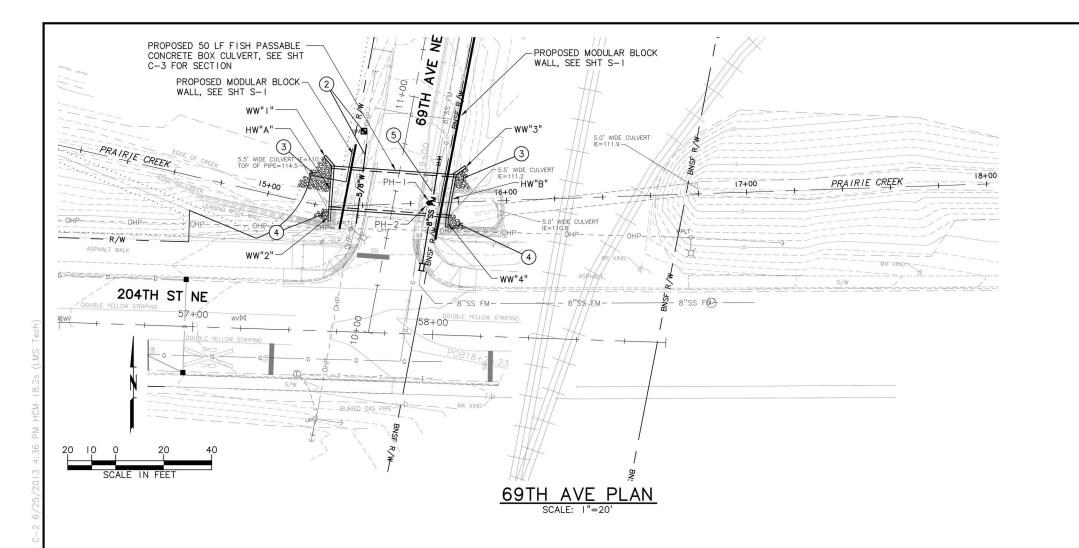
**CITY OF ARLINGTON 69TH AVE NE CULVERT** REPLACEMENT

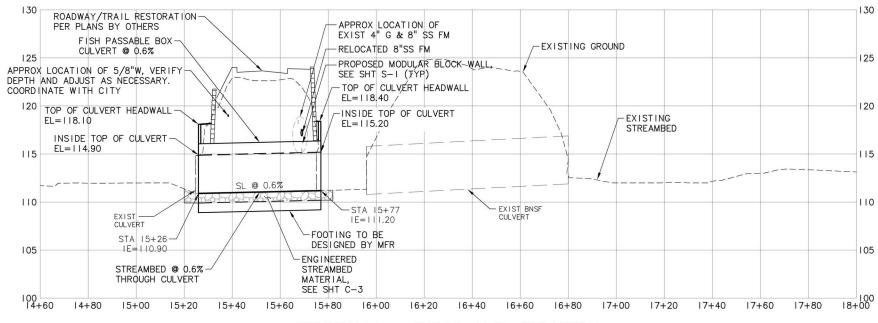
# **EXISTING CONDITIONS AND** SITE PREPARATION **69TH AVE CULVERT**

SHEET

PROJECT NO.: 12-1347.205 SCALE: AS SHOWN DATE: JUNE 2013 I of 5

C-1





#### CONSTRUCTION KEY NOTES:

- ① UTILITY POTHOLE: PH-I-8" SS FM, TOP OF PIPE ELEV 115.8½ PH-2-4" G, TOP OF PIPE ELEV 118.7%
- 2 FURNISH AND INSTALL NEW METER BOX FOR EXISTING 5/8" WATER SERVICE PER CITY STD W-040. ADJUST TO FINAL GRADE. FURNISH AND INSTALL 5/8-INCH WATER SERVICE LINE AND RECONNECT TO EXISTING, IF REMOVED DURING
- FURNISH AND HAND PLACE LIGHT LOOSE RIP RAP SLOPE PROTECTION PER WSDOT SPEC 9-13.1. GRADE TO MATCH EXISTING SLOPES. SEE DET 3, SHT C-3.
- FURNISH AND HAND PLACE LIGHT LOOSE RIP RAP PROTECTION PER WSDOT SPEC 9-13.1 TO TIE INTO EXISTING RETAINING WALL. CONTRACTOR MAY REUSE EXISTING RIP RAP IF LOOSE MORTAR IS REMOVED. SEE DET 3, SHT C-3.
- (5) RELOCATED 8" PVC FORCE MAIN, PER DET 2, SHT C-3

## NOTES:

I. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY CONSTRUCTION DEWATERING AND STREAM AND FISH BYPASS DURING THE CULVERT INSTALLATION. CONTRACTOR SHALL PREPARE AND SUBMIT FISH PASSAGE INSTALLATION PLAN AND STREAM AND FISH BYPASS PLAN PER THE 67TH AVE NE PHASE III RECONSTRUCTION PROJECT SPECIAL PROVISION 7-03.3 (PG VI-118).

69TH AVE	CULVERT H	EADWALL D	ATA TABLE
NAME	LENGTH	ANGLE*	TOP EL
WW"I"	5'	45°	118.1
HW"A"	18'	_	118.1
WW"2"	5'	0°	118.1
WW"3"	5'	45°	117.9
HW"B"	18'	SKEWED END	118.4
WW"4"	4'	2°	118.4

\* ANGLE MEASURED PARALLEL TO CULVERT HEADWALL

## PROFILE - 69TH AVE CULVERT SCALE: I"=20' HORIZ, I"=5' VERT

<u> </u>					
7				NOTIOE	
				NOTICE	
				0 ½ 1	
5					
				IF THIS BAR DOES	
-				NOT MEASURE 1" THEN DRAWING IS	
				NOT TO SCALE	
· NO.	DATE	RY	REVISION		

DESIGNED **HCM** DRAWN NPH CHECKED



Murray, Smith & Associates, Inc. **Engineers/Planners** 

2707 Colby Avenue, Suite 1110 PHONE 425.252.9003 Everett, Washington 98201-3566 FAX 425.252.8853



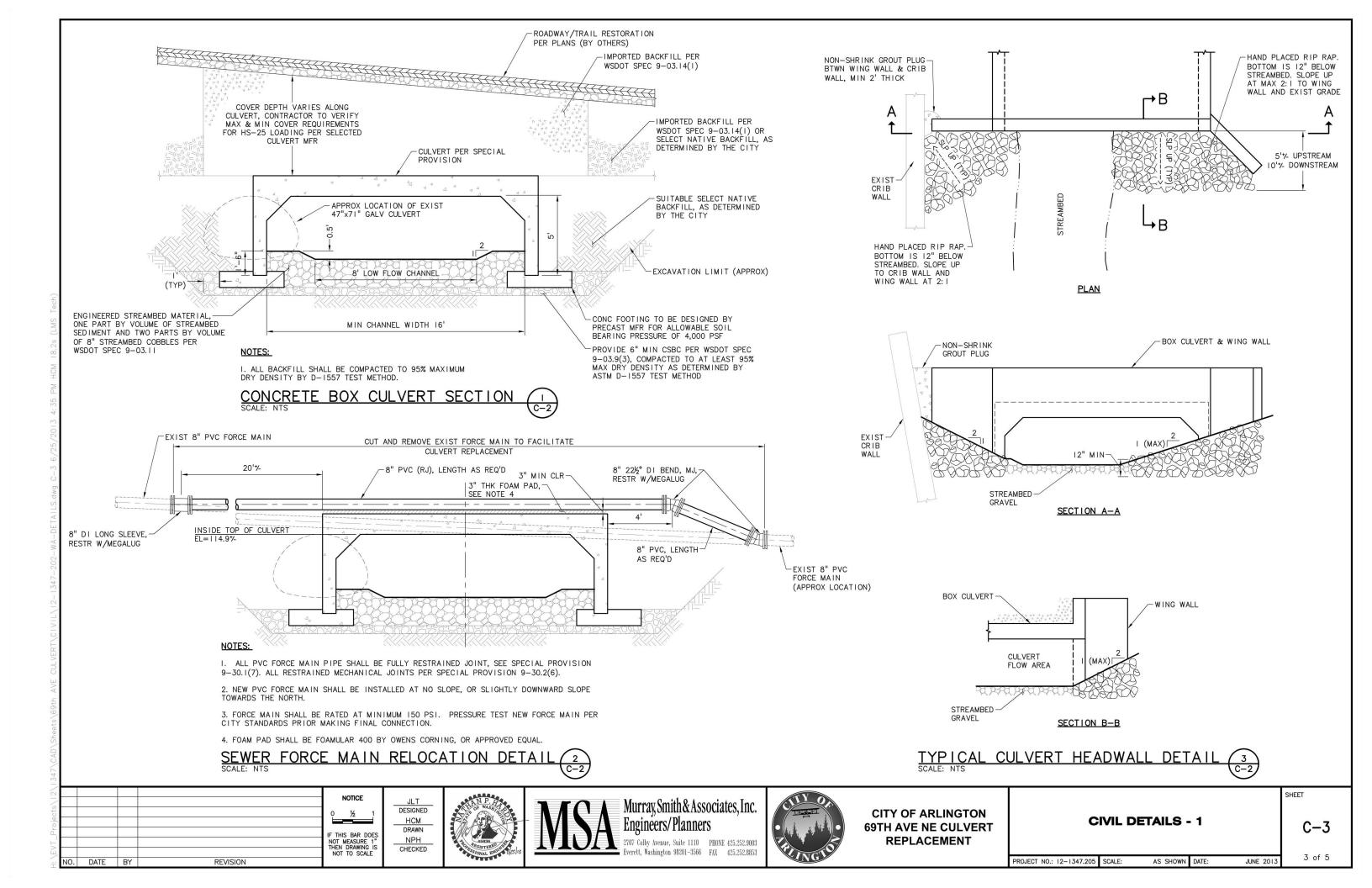
**CITY OF ARLINGTON 69TH AVE NE CULVERT** REPLACEMENT

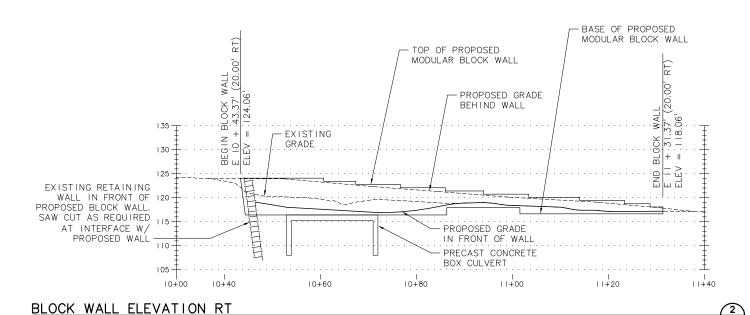
# **69TH AVE CULVERT PLAN & PROFILE**

C-2

PROJECT NO.: 12-1347.205 SCALE: AS SHOWN DATE: JUNE 2013 2 of 5

SHEET





#### MSE WALL NOTES

- I. THE MSE WALLS SHALL BE ALLEN BLOCK EUROPA COLLECTION OR APPROVED EQUAL, DESIGNED BY THE MFR, OR AGENT THEREOF. BLOCKS FOR ALL MSE WALLS SHALL BE FROM THE SAME MFR AS SUBMITTED AND APPROVED FOR THE 67TH AVE PHASE III RECONSTRUCTION PROJECT, FEBRUARY 2013.
- 2. THE MSE WALLS SHALL CONFORM WITH CHAPTER 730 OF THE WSDOT DESIGN MANUAL AND SECTION 6.13 OF THE WSDOT STANDARD SPECIFICATIONS AND GENERAL SPECIAL PROVISIONS.
- 3. REFER TO THE PROJECT SPECIFICATIONS AND ASSOCIATED GEOTECHNICAL REPORT FOR SOIL DESIGN PROPERTIES AND REQUIREMENTS. UNLESS NOTED OTHERWISE, THE FOLLOWING SERVICE LEVEL SURCHARGE PARAMETERS SHALL BE USED IN THE DESIGN:

250 PSF (AT ROADWAY) HS-25 TRUCK LOADING (NON-CONCURRENT WITH 250 PSF AT ROADWAY) 100 PSF (AT PEDESTRIAN PATH)

4. THE MSE WALL MFR SHALL PROVIDE SHOP DRAWINGS, STAMPED & SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN WASHINGTON, TO THE ENGINEER PRIOR TO CONSTRUCTION. THE SHOP DRAWINGS SHALL BE REVISED AS REQUIRED FOR FIELD CONDITIONS, AND DATE STAMPED BY THE CONTRACTOR PRIOR TO REVIEW BY THE

ENGINEER'S SHOP DRAWING REVIEW IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND CONTRACT DOCUMENTS. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. THE CONTRACTOR REMAINS RESPONSIBLE FOR DETAILS AND ACCURACY, FOR CONFORMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, FOR TECHNIQUES OF ASSEMBLY, AND FOR PERFORMING THE WORK IN A

- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR AND MAINTAIN SAFE EXCAVATION & SLOPE CONFIGURATIONS. TEMPORARY CUTS SHALL BE NO STEEPER THAN THOSE RECOMMENDED IN THE CONTRACT SPECIFICATIONS AND/OR GEOTECHNICAL REPORT. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SHORING IF REQUIRED.
- IF GROUNDWATER OR LOOSE SOILS ARE ENCOUNTERED, CONSULT GEOTECHNICAL ENGINEER FOR REVISED SLOPE CUT REQUIREMENTS. CUT SLOPES SHALL BE PROTECTED FROM EROSION PER GEOTECHNICAL RECOMMENDATIONS, ALL CUT SLOPE HEIGHTS & INCLINATIONS SHALL CONFORM TO APPROPRIATE OSHA/WISHA REGULATIONS.

### SPECIAL INSPECTION

OPERATION	CONT	PERIODIC	REMARKS
SOILS			
EXCAVATION & FILL		X	GEOTECH ENGINEER
BLOCK WALLS			
ERECTION OF BLOCK WALL		X	
GEOGRID INSTALLATION		X	GEOTECH ENGINEER

ITEMS MARKED WITH AN "X" SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17. SPECIAL INSPECTION SHALL BE PERFORMED BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE OWNER. ANY INSPECTION FAILING TO MEET THE PROJECT SPECIFICATIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DESIGN TEAM.



NOTICE THIS BAR DOES NOT MEASURE THEN DRAWING NOT TO SCALE

DESIGNED ZOS DRAWN JGG CHECKED







2707 Colby Avenue, Suite 1110 PHONE 425.252.9003 Everett, Washington 98201-3566 FAX 425.252.8853



**CITY OF ARLINGTON 69TH AVE NE CULVERT** REPLACEMENT

# **MODULAR BLOCK WALL NOTES AND PROFILES**

S-

SHEET

ROJECT NO.: 12-1347.205 | SCALE: AS SHOWN

JUNE 20

4 of 5

