



City of Sedona Community Development Department

Engineering Services

102 Roadrunner Drive Sedona, AZ 86336

(928) 204-7111 • Fax: (928) 282-5348

To Whom It May Concern:

The City of Sedona, Arizona is issuing **Addendum # 1** to the plans and specifications as originally issued at the time of solicitation for bids for the **Brewer Road/Tlaquepaque Drainage Improvements Project – Phase 2**. For any bid to be considered responsible and responsive, receipt of this addendum must be acknowledged.

As specified in the Instructions to Bidders this Addendum upon issuance has become a part of the Contract Documents.

This Addendum contains 9 pages including this page, 1 changed bid sheet, and 5 plan sheets. Any changed bid sheets shall be used in lieu of the originally issued bid sheets in order to submit a responsive bid.

This Addendum changes the following:

- 1) **Bid Schedule, Page BP-26, replace with the enclosed Bid Schedule. Note exclusion of Bid Items 10 & 13.**
- 2) **Plans, replace the original plan set with the enclosed plans, stamped and dated 4/3/15.**
- 3) **Technical Specifications, Sections 1.0.1 and 1.0.2, remove “(used)” from the title of these sections. Barriers can be new or used per General Note 14 on Sheet 2 of the Plans.**
- 4) **Technical Specifications, Section 1.0.6: Item 6 – Relocate Existing Irrigation Valves and Box, add to the end of this section, “This work shall be coordinated with Larry Farhat, Senior Chief Engineer of Diamond Resorts at Los Abrigados, at 928-203-5312.”**
- 5) **Technical Specifications, Section 1.0.10: Item 10 – Construct Wall to Fill Gap, is hereby excluded from the contract documents.**
- 6) **Technical Specifications, Section 1.0.13: Item 13 – Sawcut and Remove Concrete & Construct Wall, is hereby excluded from the Contract Documents.**
- 7) **Technical Specifications, Section 1.0.17: Item 17 – Remove Existing Shrub, add to the end of this section, “Removed shrubs shall be salvaged and replaced if possible. If not salvageable, all removed shrubs shall be replaced in kind with 15 gallon plants. Location of replaced shrubs to be coordinated with Larry Farhat.”**
- 8) **Technical Specifications, Section 1.0.21: Item 21 – Traffic Control, at the end of the 2nd paragraph, add the following, “The contractor shall leave a minimum 24-foot wide traffic lane for access to the remainder of the parking lot. The contractor will also be responsible for ensuring that all parking spaces are accessible on weekends and holidays. These conditions will also be applicable to any disruption of parking on Parcel 401-18-078 for completion of Bid Items 14 and 15. The contractor will be required to maintain a minimum 5’ wide pedestrian access path on the east side of Parcel 401-18-079, which is a pedestrian corridor.”**
- 9) **Pre-Bid Meeting Sign-In Sheet is attached for bidders’ reference.**



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ACKNOWLEDGEMENT

I have received addendum # 1 for the **Brewer Road/Tlaquepaque Drainage Improvements Project – Phase 2** as described above, and acknowledge it as part of the Contract Documents for the project.

Signature

Date

Print Business Name

Addendum # 1 issued by J. Andy Dickey, PE, Assistant Community Development Director /City Engineer, City of Sedona



J. Andy Dickey, PE, Assistant Community Development Director /City Engineer

4/3/15

Date

SIGN IN SHEET

Brewer Road/Tlaquepaque Drainage Improvements - Phase 2
Pre-Bid Mtg 3/27/15

NAME	FIRM NAME	TEL. NO.	E-MAIL
Stephen Craver	City of Sedona	928.203.5059	SCraver@SedonaAZ.gov
J. Andy Dickey	City of Sedona	928.203.5039	ADickey@SedonaAZ.gov
Nick Kogas	Western Technologies	928-774-8700	n.kogas@wt-us.com
DAVID MONTGOMERY	WESTERN TECHNOLOGIES	928-821-3389	DAVID.M@WT-US.COM
Lannie Ferguson	Banicki Construction	602-469-3032	estimating@banicki.com
Jon LAGRO	EAGLE MOUNTAIN	928-526-2587	LAGRO@EMCAZ.COM
Luke McPhee	Skanska Construction	480-828-7316	Luke.McPhee@Skanska.com
Reggie West	Pima Paving, Inc	520-370-7295	reggie@pimapaving.com
STEVE SUTTON	STANDARD CONSTRUCTION CO., INC.	(623)694-3676	SSUTTON@STANDARDAZ.COM
Linda Kirkness	McDonald Bros Const	928-220-0013	Linda@mcdonaldbrosaz.com
Art Beckwith	SWI	(928)2861061	abeckwith@swiaz.com

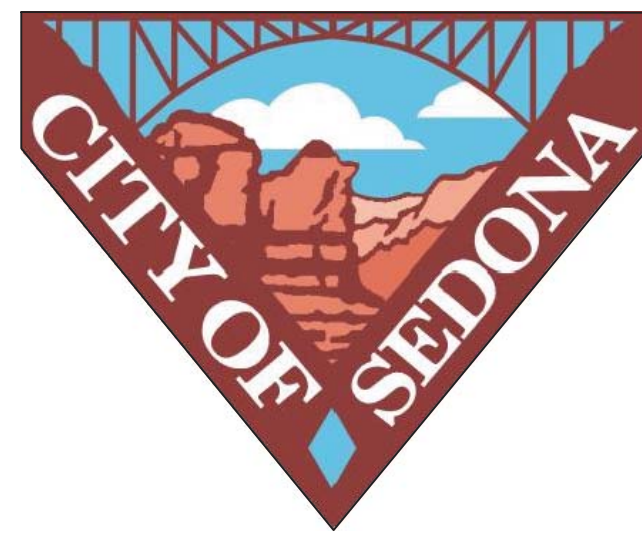
Bid Schedule

City of Sedona – Brewer Road/Tlaquepaque Drainage Improvements Project – Phase 2
Project # COS 2015-ES-002

ITEM NO.	ITEM DESCRIPTION	QTY	UNIT	UNIT PRICE	EXTENDED TOTAL
1	12'-6" Concrete Jersey Barrier & ABC Leveling Course	24	EA		
2	20' Concrete Jersey Barrier & ABC Leveling Course	9	EA		
3	Jersey Barrier Joint Connection	25	EA		
4	Jersey Barrier Pilaster Connection	6	EA		
5	Extended Jersey Barrier Joint Connection	2	EA		
6	Relocate Existing Irrigation Valves and Box	2	EA		
7	CMU Wall Extension to Match Existing - Detail G, Dwg C2	123	LF		
8	CMU Wall Extension to Match Existing - Detail H, Dwg C2	151	LF		
9	CMU Wall Extension to Match Existing - Detail L, Dwg C2	29	LF		
10	Not Used	6	LF	X	X
11	CMU Wall to Fill Gap - Detail E, Dwg C2, S Side of Portal Lane	5	LF		
12	CMU Wall with Gabion Protection - Detail M, Dwg C2	33	LF		
13	Not Used	27	SF	X	X
14	Construct Concrete Slab and Turndown	12	CY		
15	Regrade Existing Bank and Install Gabion Matress	52	CY		
16	Regrade Existing Bank	175	LF		
17	Remove Existing Shrubs	19	EA		
18	Remove Concrete	52	SF		
19	Mobilization	1	LS		
20	Erosion Control Plan (SWPPP)	1	LS		
21	Traffic Control	1	LS		
22	Material Testing	1	LS		
23	As-Built Preparation	1	LS		
				TOTAL BID	
CIP: COMPLETE IN PLACE					
Owner reserves the right to vary the quantities shown at their discretion. The contractor will accept the quantities if no corrections are made at the conclusion of the pre-bid meeting. All facilities incidental to the item are included in the unit price estimate. Bid Prices submitted include all local, state and federal taxes.					

UNIT PRICES SHALL BE USED WHEN EXTENSION OF UNIT PRICES AND TOTAL AMOUNT CONFLICT. WRITTEN UNIT PRICES SHALL BE USED WHEN WRITTEN AND NUMERICAL UNIT PRICES CONFLICT. BID PRICES SUBMITTED INCLUDE ALL LOCAL, STATE AND FEDERAL TAXES.

The City of Sedona reserves the right to reject all bids, or to award only the base bid, or to award a bid based upon the total of the Base Bid plus additive alternate(s) as selected for award from the additive alternate bid schedule, if additive alternate bid schedule is applicable.



CITY OF SEDONA

BREWER ROAD / TLAQUEPAQUE DRAINAGE IMPROVEMENTS

LOCATED IN A PORTION OF SECTION 7, TOWNSHIP 17 NORTH,
RANGE 6 EAST, GILA AND SALT RIVER MERIDIAN,
COCONINO COUNTY, ARIZONA.

CONTACT INFORMATION

OWNER: CITY OF SEDONA
102 ROADRUNNER DRIVE
SEDONA, ARIZONA 86336
(928) 204-7132
ANDY DICKEY

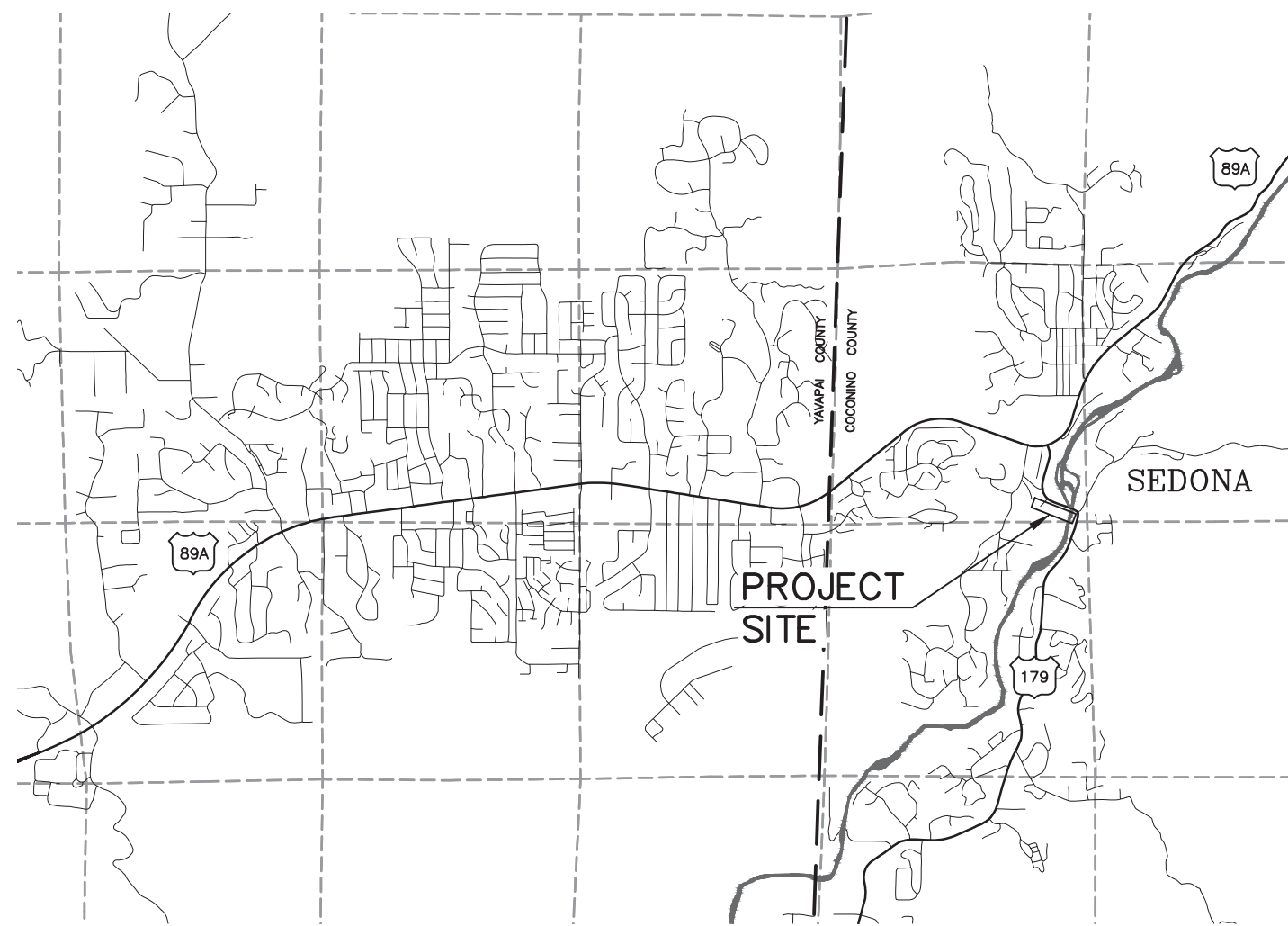
MAYOR: SANDY MORIARTY

VICE MAYOR: MARK DINUNZIO

CITY COUNCIL: SCOTT JABLOW
ANGELA LEFEVRE
JOHN MARTINEZ
JOHN THOMPSON
JESSICA WILLIAMSON

INTERIM CITY MANAGER: KAREN DAINES

ENGINEER: SHEPHARD-WESNITZER, INC
75 KALLOF PLACE
SEDONA, AZ 86336
(928) 282-1061
ART BECKWITH, PE



VICINITY MAP

NO SCALE



LOCATION MAP

NO SCALE

COORDINATE SYSTEM DETAILS

LINEAR UNIT: INTERNATIONAL FOOT

GEODETIC DATUM: NAD 1983 (NSRS 2007)

VERTICAL DATUM: NAVD 1988 (SEE BELOW)

SYSTEM: STATE PLANE COORDINATE SYSTEM (CITY OF SEDONA)

ZONE: ARIZONA CENTRAL 0202

PROJECTION: TRANSVERSE MERCATOR
LATITUDE OF GRID ORIGIN: 31°00'00" N
LONGITUDE OF CENTRAL MERIDIAN: 111°55'00" W
NORTHING AT GRID ORIGIN: 0.000 FT
EASTING AT CENTRAL MERIDIAN: 700,000 FT
CENTRAL MERIDIAN SCALE FACTOR: 0.9999 (EXACT)

ALL DISTANCES AND BEARINGS SHOWN HEREON ARE NOT GRID VALUES BUT PROJECTED FOR THE PRECEDING COORDINATE SYSTEM DEFINITION. THIS DEFINITION IS SUCH THAT GRID DISTANCES ARE NOT EQUIVALENT TO "GROUND" DISTANCES IN THE PROJECT AREA.

ORTOMETRIC HEIGHTS (ELEVATIONS) WERE TRANSFERRED TO THE SITE FROM POINT "VORTEX" (NGS PID AJ5637) USING GPS WITH NGS GEOID MODEL "GEOID03". ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE PUBLISHED ELEVATION OF THIS STATION.

THE SURVEY WAS CONDUCTED USING GPS REFERENCED TO THE NATIONAL SPATIAL REFERENCE SYSTEM, 2007 READJUSTMENT. A PARTIAL LIST OF POINT COORDINATES FOR THIS SURVEY IS GIVEN BELOW (ADDITIONAL COORDINATES ARE AVAILABLE UPON REQUEST).

POINT #28 "VORTEX" (NGS PID AJ5637)
LATITUDE: 34°50'46.53562"N NORTHING: 1399355.912
LONGITUDE: 111°49'41.94433"W EASTING: 726507.379
ELLIPSOID HEIGHT: 4384.140 FT ELEVATION: 4465.054 FT

POINT #52 "Y492" (NGS PID ES0652)
LATITUDE: 34°51'45.45699"N NORTHING: 14005328.118
LONGITUDE: 111°46'53.08508"W EASTING: 740572.409
ELLIPSOID HEIGHT: 4359.495 FT ELEVATION: 4439.536 FT

POINT #5001 60D SURVEY NAIL WITH PINK WISKERS
LATITUDE: 34°51'47.07942"N NORTHING: 1405499.313
LONGITUDE: 111°45'52.95361"W EASTING: 745582.647
ELLIPSOID HEIGHT: 4121.9242 FT ELEVATION: 4201.724 FT

POINT #5002 60D SURVEY NAIL WITH PINK WISKERS
LATITUDE: 34°51'47.71271"N NORTHING: 1405563.456
LONGITUDE: 111°45'51.99145"W EASTING: 745662.722
ELLIPSOID HEIGHT: 4122.52158 FT ELEVATION: 4202.315 FT

UTILITY COORDINATION BLOCK

<input type="checkbox"/> ARIZONA PUBLIC SERVICE	SANDY FINLEY COMPANY REPRESENTATIVE CONTACTED	RECEIVED: _____
<input type="checkbox"/> ARIZONA WATER COMPANY	KEITH SELF COMPANY REPRESENTATIVE CONTACTED	RECEIVED: _____
<input type="checkbox"/> SUDDEN LINK	RICHARD DAVIS COMPANY REPRESENTATIVE CONTACTED	RECEIVED: _____
<input type="checkbox"/> UNISOURCE	MONNETTE FANNING COMPANY REPRESENTATIVE CONTACTED	RECEIVED: _____
<input type="checkbox"/> CENTURY LINK	CHAD HENKEL COMPANY REPRESENTATIVE CONTACTED	RECEIVED: _____

LEGEND

- RECORD PARCEL BOUNDARIES
- 4440 --- EXISTING INDEX CONTOURS
- EXISTING INTERMEDIATE CONTOURS
- EXISTING BUILDINGS
- X X X X --- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING SWALE
- EXISTING GUARDRAIL
- PROPOSED SWALE
- W --- WATER
- OHE --- OVERHEAD UTILITY LINE
- SS --- SEWER
- ⊙ SEWER MANHOLE
- ⊙ CLEAN OUT
- ⊙ CATCH BASIN
- UTILITY POLE
- * LIGHT POLE
- ⊕ SIGN
- ⊕ IRRIGATION VALVE
- ⊕ WATER METER
- ⊕ WATER RISER
- ⊕ WATER VALVE
- CONCRETE

SHEET LIST		
SHT NO.	DWG NO.	TITLE
1	C1	COVER SHEET
2	C2	NOTES AND DETAILS
3	C3	LAYOUT PLANS
4	C4	CROSS SECTIONS
5	SW1	STORM WATER POLLUTION PREVENTION PLAN

APPROVAL

APPROVED: 4/3/15
ANDY DICKEY DATE
ASSISTANT COMMUNITY DEVELOPMENT DIRECTOR / CITY ENGINEER

RECORD DRAWING STATEMENT

I, _____, HEREBY STATE, BASED ON MY FIELD OBSERVATION AND INFORMATION PROVIDED BY THE GENERAL CONTRACTOR AND OTHERS, THAT THE WORK ON SHEETS 1 THROUGH 3, MARKED AS "RECORD DRAWING" HAS BEEN CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THESE CONSTRUCTION PLANS, SPECIFICATIONS, INCLUDING CHANGES AND REVISIONS.

REGISTERED LAND SURVEYOR/ENGINEER _____ DATE _____
REGISTRATION NUMBER _____ EXPIRATION DATE _____

CALL TWO WORKING DAYS BEFORE YOU DIG
1-800-STAKE-IT

NOTICE OF EXTENDED PAYMENT PROVISION:
(PER ARS 32-1129.01) THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVALS OF BILLINGS AND ESTIMATES FOR PROGRESS PAYMENTS, WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVALS OF BILLINGS AND ESTIMATES FOR RELEASE OF RETENTION AND WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVAL OF BILLINGS AND ESTIMATES FOR FINAL PAYMENT.

REVISIONS			
NO.	DESCRIPTION	DATE	BY
△	REVISIONS PER ADDENDUM NO.1	04/03/15	MWJ

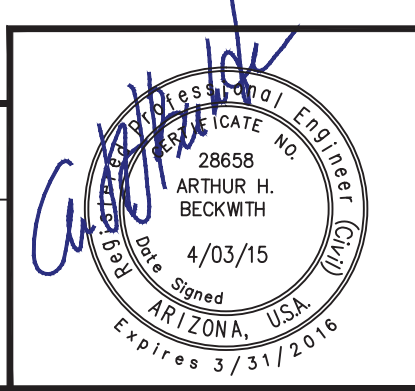
SWI
Shephard Wesnitzer, Inc.
www.swiaz.com

75 Kallof Place
Sedona, AZ 86336
928.282.1061
928.282.2058 fax

JOB NO:	12214
DATE:	APR 15
SCALE:	AS SHOWN
DRAWN:	MWJ
DESIGN:	AHB
CHECKED:	AHB

BREWER RD/TLAQUEPAQUE DRAINAGE IMPROVEMENTS
SEDONA ARIZONA

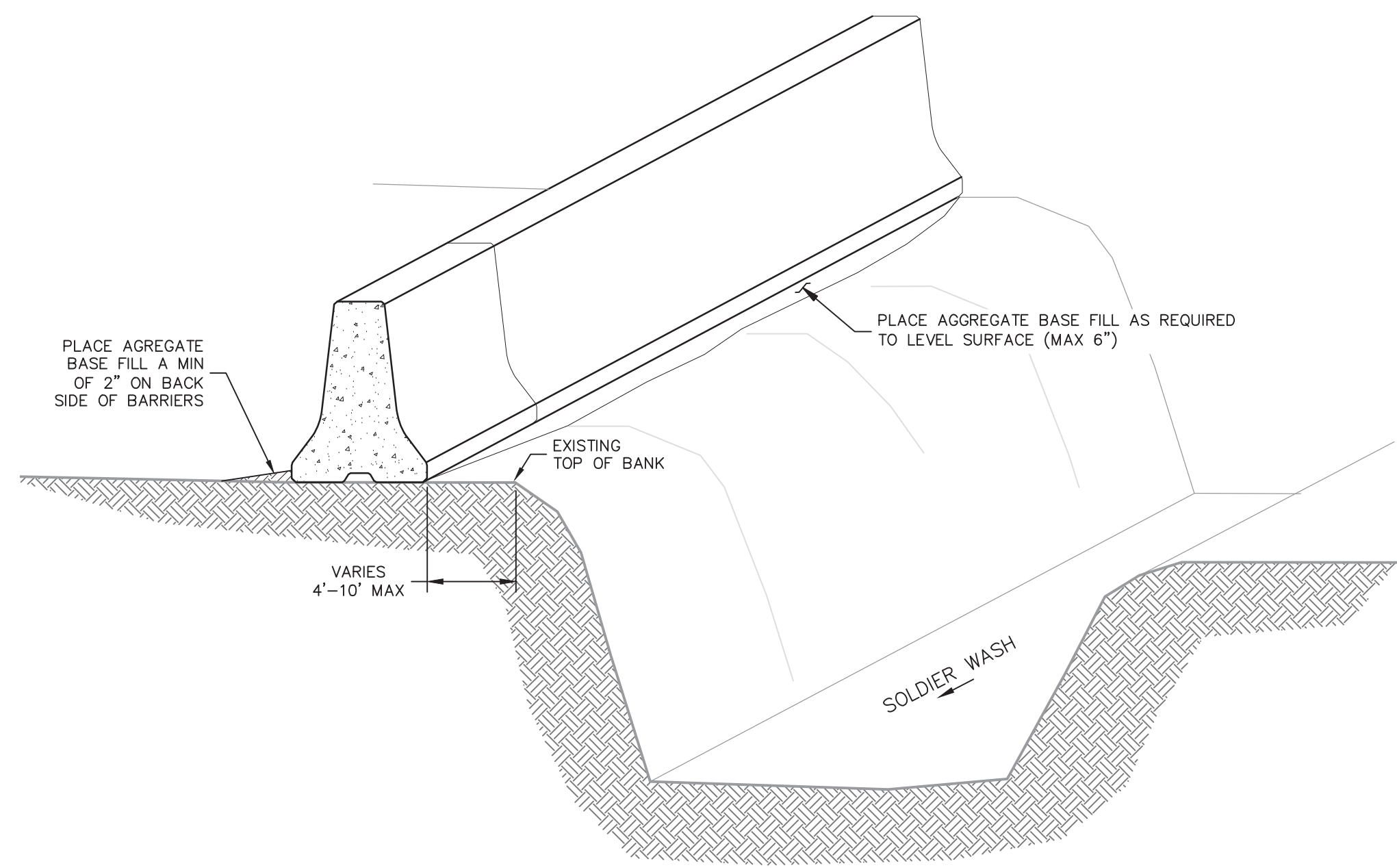
COVER SHEET



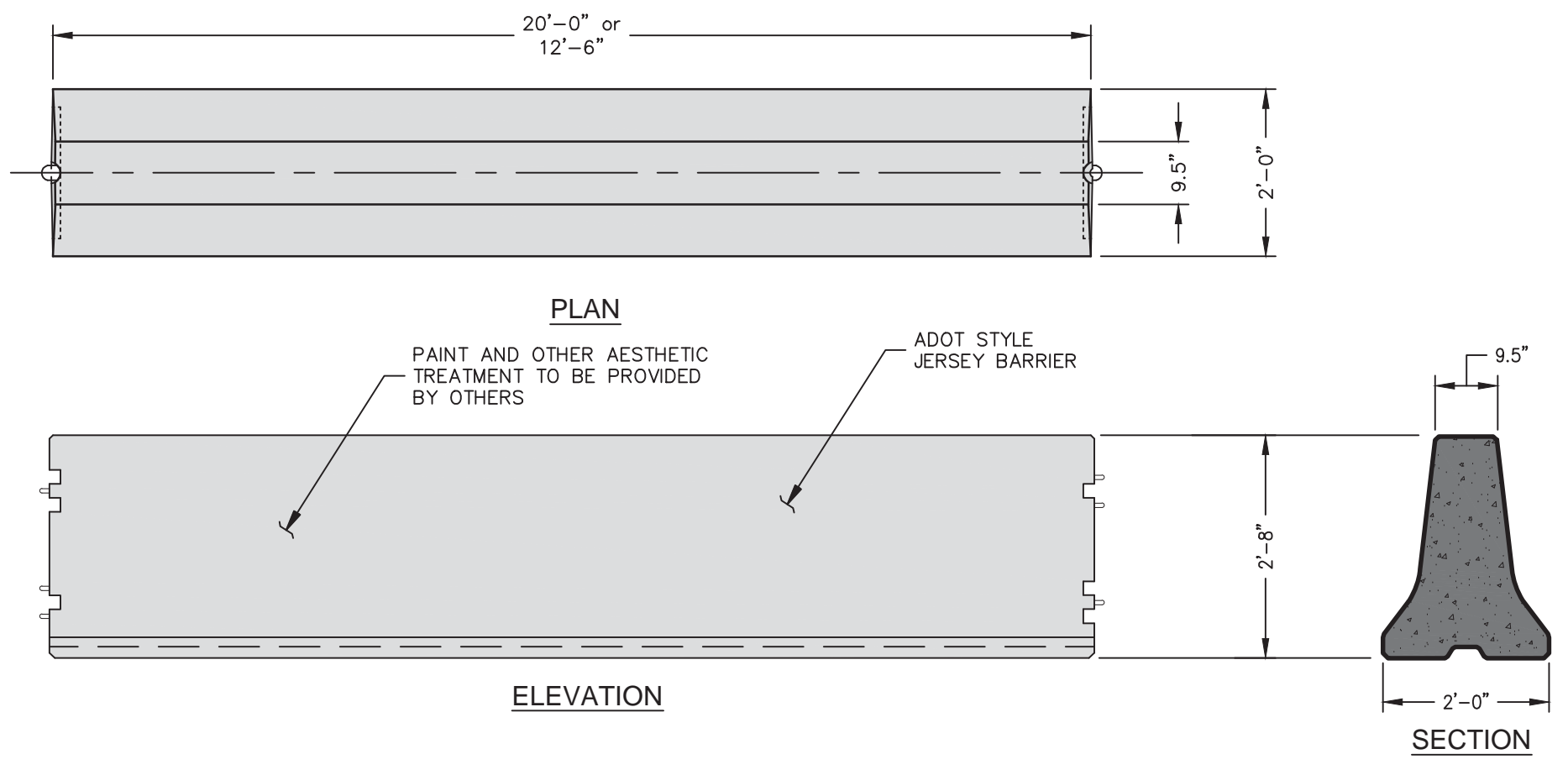
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C1	
SHT NO.	OF
1	5

GENERAL NOTES

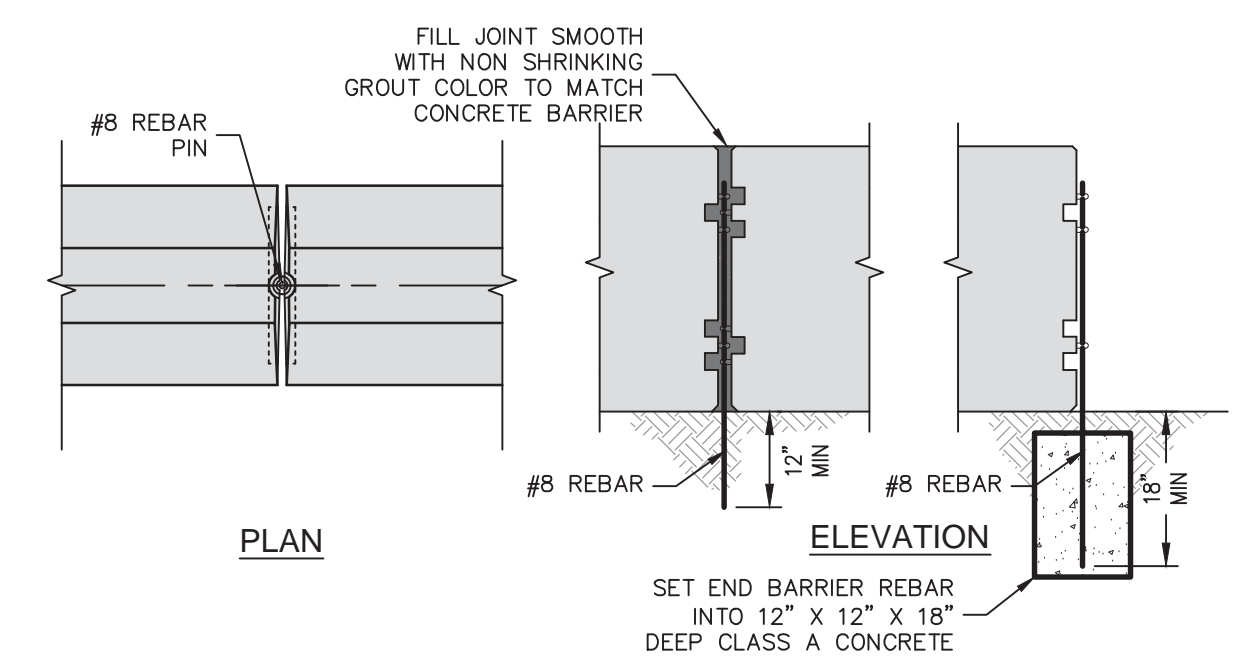
- ALL QUANTITIES SHOWN ARE APPROXIMATE AND ARE FURNISHED SOLELY FOR THE CONTRACTOR'S CONVENIENCE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACTUAL QUANTITIES OF WORK REQUIRED AND BASE HIS BID ON HIS OWN INDEPENDENT ESTIMATE OF THE WORK SCOPE AND QUANTITIES OF MATERIALS REQUIRED. THEY DO NOT NECESSARILY CORRESPOND TO BID SCHEDULE ITEMS. PAYMENT WILL BE BASED ON BID SCHEDULE ITEMS. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR INDEPENDENTLY ESTIMATING QUANTITIES PRIOR TO BIDDING. THE CONTRACTOR REPRESENTS THAT THE TOTAL CONTRACT SUM IS ADEQUATE COMPENSATION FOR COMPLETING THE ENTIRE PROJECT AS SHOWN ON THE PLANS.
- THE LOCATION OF EXISTING FEATURES INDICATED ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR MAKING COMPLETE AND ACCURATE ON-SITE DETERMINATIONS OF THE LOCATIONS OF ALL UTILITIES, STRUCTURES AND FIELD CONDITIONS, WHICH MAY AFFECT THE PROGRESS OF THE WORK.
- THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE DIRECTED TO THE ENGINEER. ANY INTERPRETATION OF THE PLANS BY ANYONE OTHER THAN THE ENGINEER SHALL BE RESPONSIBLE FOR ANY CONSEQUENCES THEREOF.
- ADEQUATE DRAINAGE OF THE CONSTRUCTION AREA SHALL BE PROVIDED AT ALL TIMES. CONSTRUCTION DRAINS SHALL BE PROVIDED AS NEEDED TO ENABLE WATER TO DRAIN FROM THE CONSTRUCTION AREA RAPIDLY AND WITHOUT DAMAGING THE WORK IN PROGRESS. TO FURTHER PROMOTE GOOD DRAINAGE OF THE SITE, DRAINAGE CHANNELS, CULVERTS, AND STRUCTURES, SHALL BE CONSTRUCTED FROM DOWNSTREAM TO UPSTREAM IN SUCH A WAY THAT, DURING CONSTRUCTION, THEY DO NOT IMPEDE THE FLOW OF WATER FROM THE CONSTRUCTION AREA. DAMAGE TO ADJACENT PROPERTIES OR TO ANY PORTION OF THE WORK CAUSED BY THE CONTRACTOR'S FAILURE TO PROVIDE ADEQUATE DRAINAGE OF THE CONSTRUCTION SITE OR TO ORDER THE WORK SO AS TO MINIMIZE THE POSSIBLE EXTENT OF SUCH DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- ALL WORK SHALL CONFORM TO MAG STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND CURRENT REVISIONS THERETO AS MODIFIED BY THE CITY OF SEDONA CITY CODE TITLE 12.05.110.
- EXACT POINT OF MATCHING & TERMINATION OF IMPROVEMENTS MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER IF NECESSARY.
- ELEVATIONS SHOWN ON PLAN ARE TO FINISHED GRADE, UNLESS OTHERWISE NOTED OR SPECIFIED.
- A SET OF SIGNED AND APPROVED CONSTRUCTION DOCUMENTS WILL BE KEPT DURING WORK HOURS AT THE JOB SITE ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK, INCLUDING ALL EXISTING UTILITIES, ARE TO BE RECORDED AND/OR CORRECTED DAILY AND SUBMITTED TO THE CITY ENGINEER WHEN THE WORK TO BE DONE IS COMPLETED.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT BARRICADES TO PROVIDE FOR THE SAFETY OF THE GENERAL PUBLIC TO THE SATISFACTION OF THE CITY ENGINEER.
- ALL MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS AT ALL TIMES. RESTRICTED PARKING IS TO BE LIMITED TO THE IMMEDIATE WORK AREA ONLY. ALL OTHER PARKING IS TO REMAIN OPEN AT ALL TIMES.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION CONTRACTOR TO COORDINATE WORK WITH ALL UTILITY COMPANIES AND ADJACENT PROPERTY OWNERS.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF THERE ARE ANY DISCREPANCIES ON THESE PLANS THAT COME TO HIS ATTENTION PRIOR TO OR DURING CONSTRUCTION.
- LOCATION OF UTILITIES EXIST IN THE AREA OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT BLUE-STAKE 1-800-STAKEIT (1-800-782-5348) AND OTHER INVOLVED AGENCIES TO LOCATE UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO OBSTRUCTIONS AND UTILITY LINES ENCOUNTERED DURING CONSTRUCTION.
- JERSEY BARRIERS CAN BE NEW OR USED AND SHALL COMPLY WITH ADOT STANDARD SPECIFICATIONS AND DETAIL C-3 "PRECAST CONCRETE BARRIER PIN AND LOOP ASSEMBLY NCHRP 350 APPROVED DESIGN". JERSEY BARRIERS AS SHOWN ON PLAN ARE WITHOUT SCUPPERS, IF JERSEY BARRIERS WITH SCUPPERS ARE USED, SCUPPERS SHALL BE GROUTED SOLID.
- CONTRACTOR IS RESPONSIBLE FOR SECURING A STAGING AND EQUIPMENT STORAGE AREA.
- NO CONTRACTOR ON-SITE OFFICE IS REQUIRED. CONTRACTOR TO PROVIDE THE REQUIRED EMERGENCY CONTACTS.
- THE #5 DOWEL SHOULD BE INSTALLED WITH EMBEDMENT OF 10" INTO A 3/4" DIAMETER DRILLED HOLE IN CONCRETE WITH HILTI HY-150 EPOXY GROUT PER ADHESIVE MANUFACTURER'S INSTRUCTIONS.



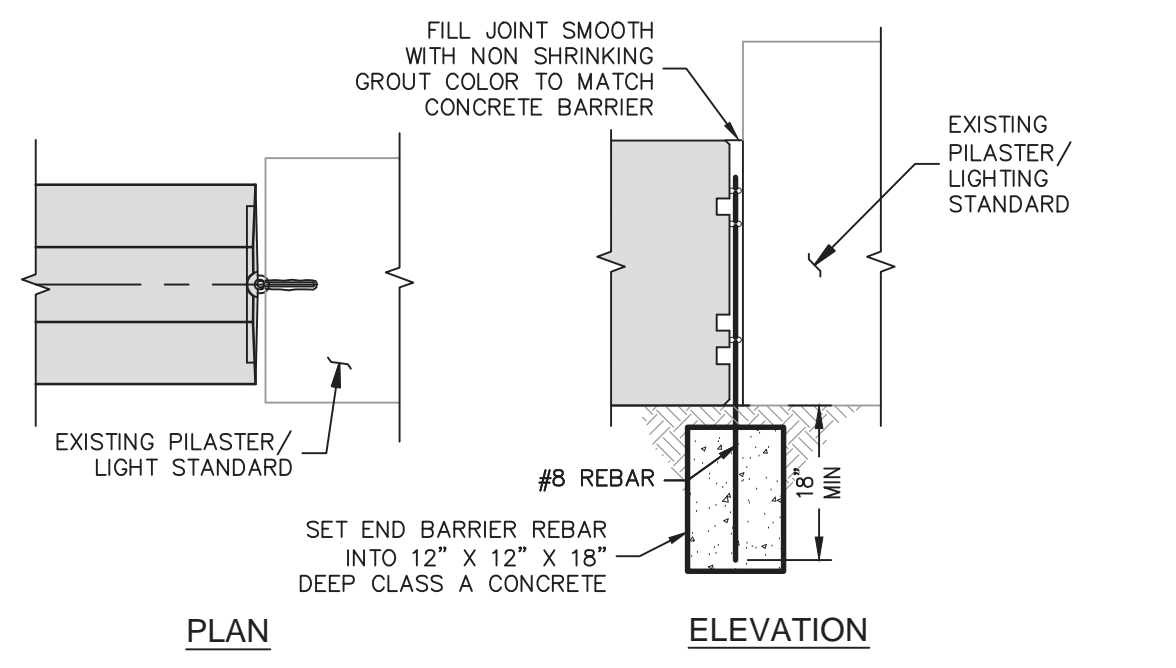
TYPICAL BARRIER PLACEMENT (A) 1/2"=1'-0" C3



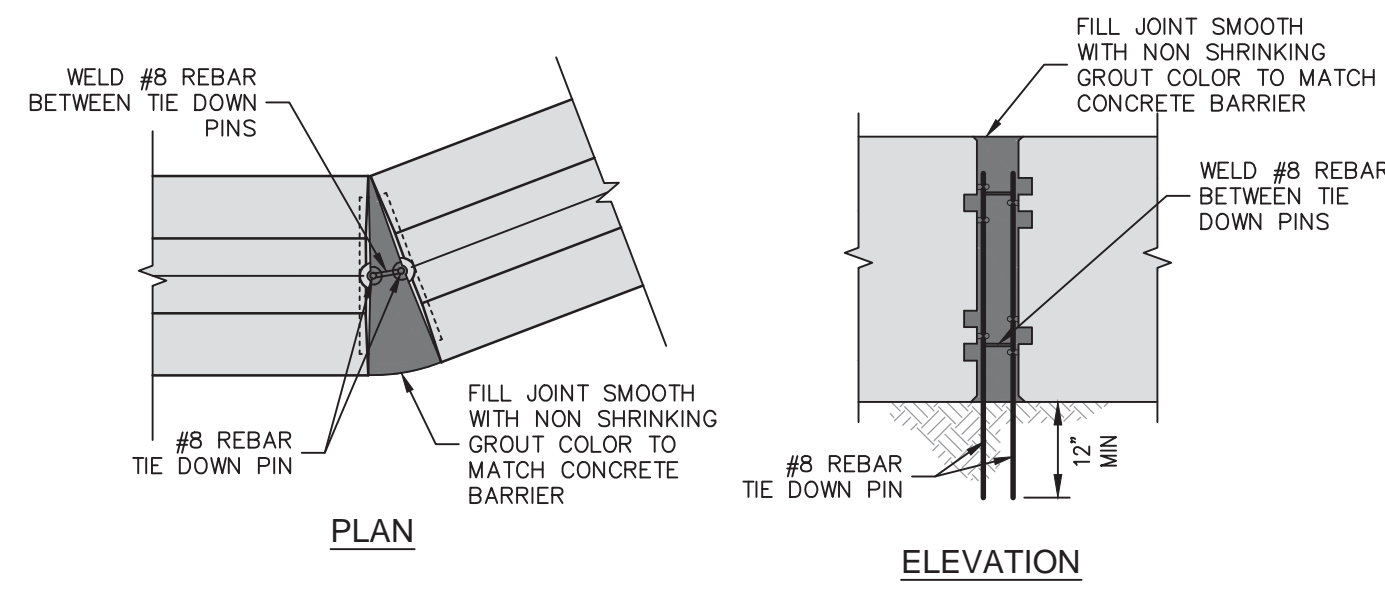
JERSEY BARRIER DETAILS (F) NO SCALE C3



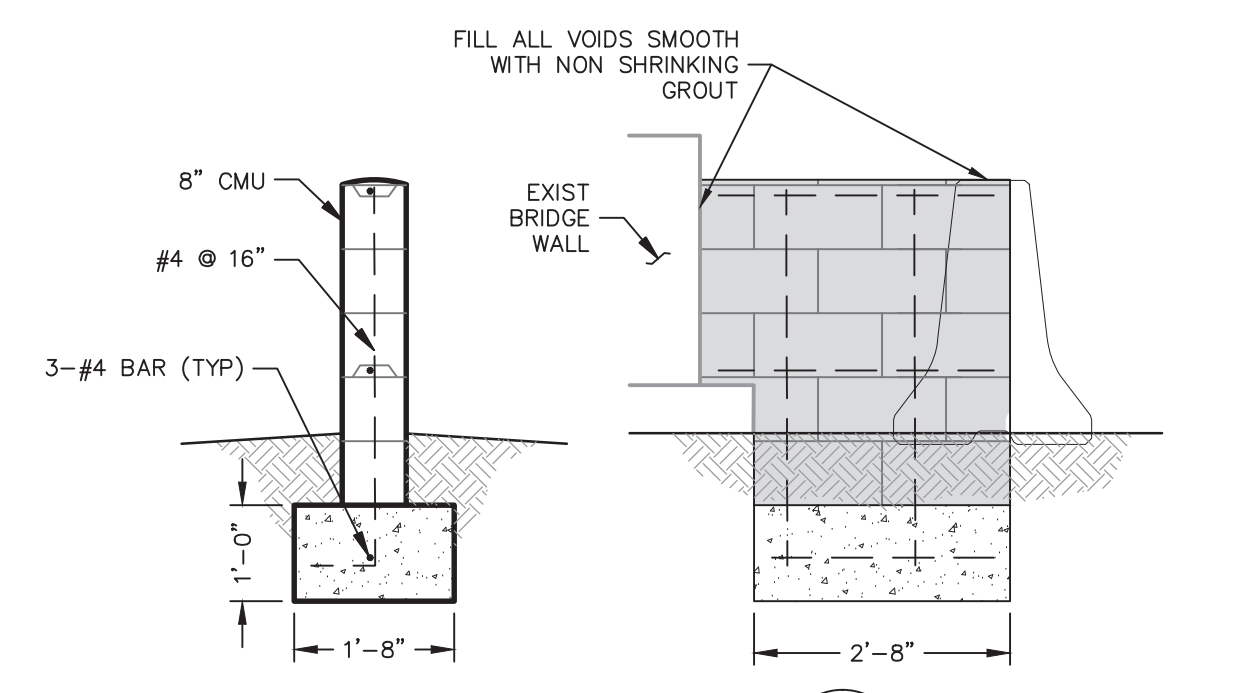
TYPICAL JOINT CONNECTION (B) 1/2"=1'-0" C3



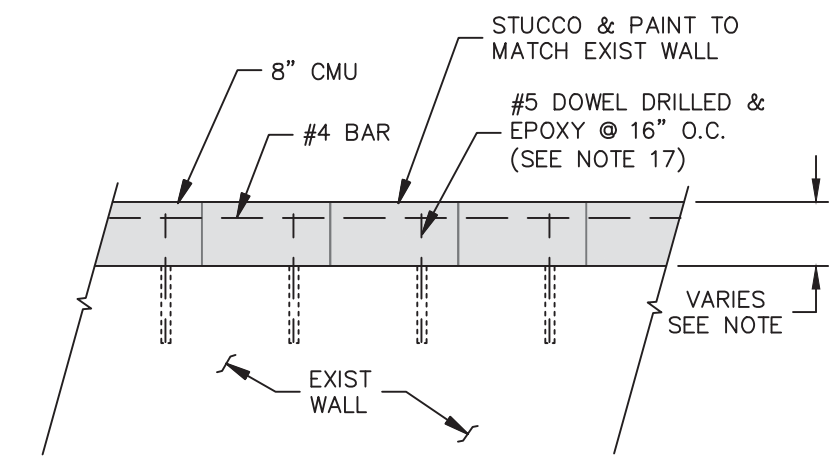
PILASTER CONNECTION (C) 1/2"=1'-0" C3



EXTENDED JOINT CONNECTION (D) 1/2"=1'-0" C3

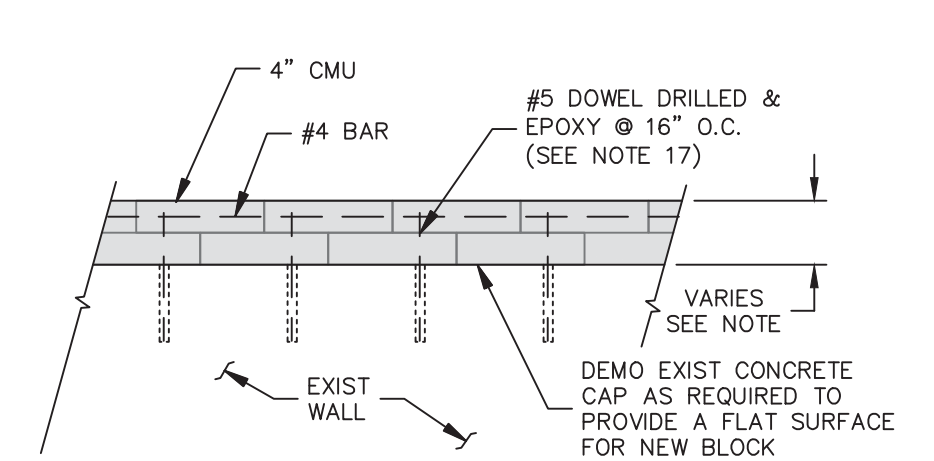


WALL DETAIL (E) 1/2"=1'-0" C3



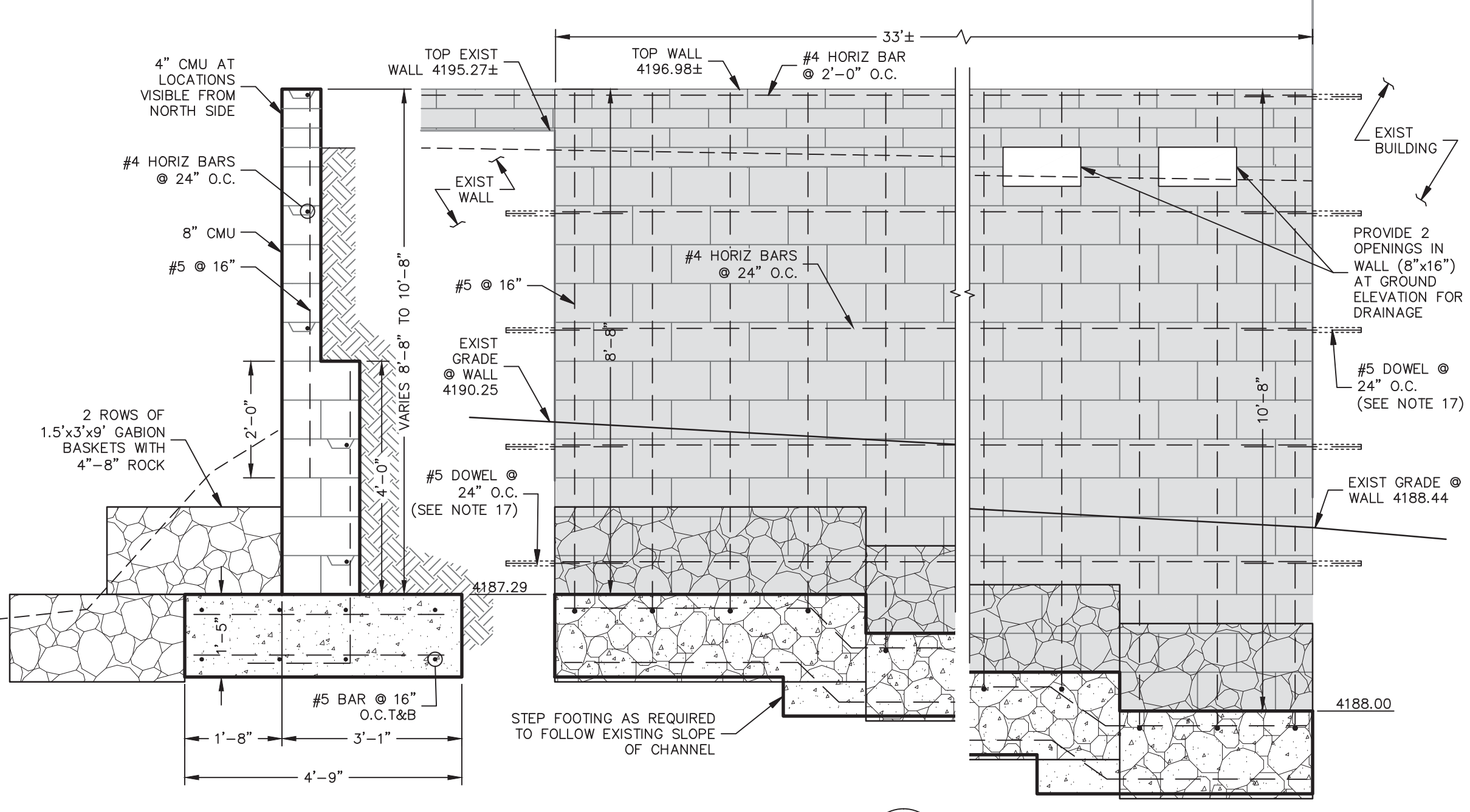
NOTE: HEIGHT OF WALL EXTENSION WILL VARY WITH THE NUMBER OF BLOCK COURSES USED BUT WILL NEED TO BE AT AN EQUAL ELEVATION OR HIGHER THAN THE TOP OF JERSEY BARRIERS ON THE OPPOSITE SIDE OF WASH.

WALL EXTENSION DETAIL (G) NO SCALE C3

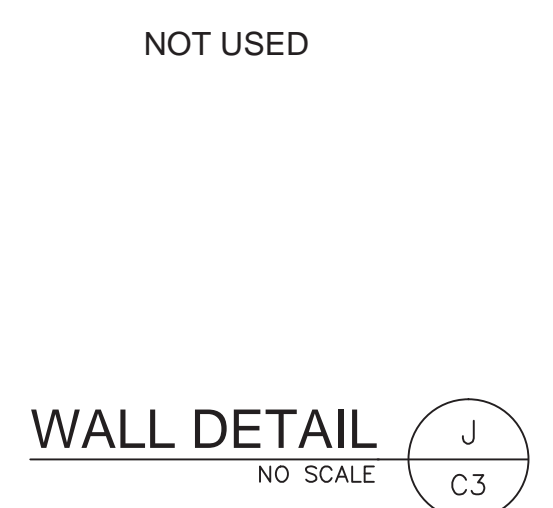


NOTE: HEIGHT OF WALL EXTENSION WILL VARY WITH THE NUMBER OF BLOCK COURSES USED BUT WILL NEED TO BE AT AN EQUAL ELEVATION OR HIGHER THAN THE TOP OF JERSEY BARRIERS ON THE OPPOSITE SIDE OF WASH.

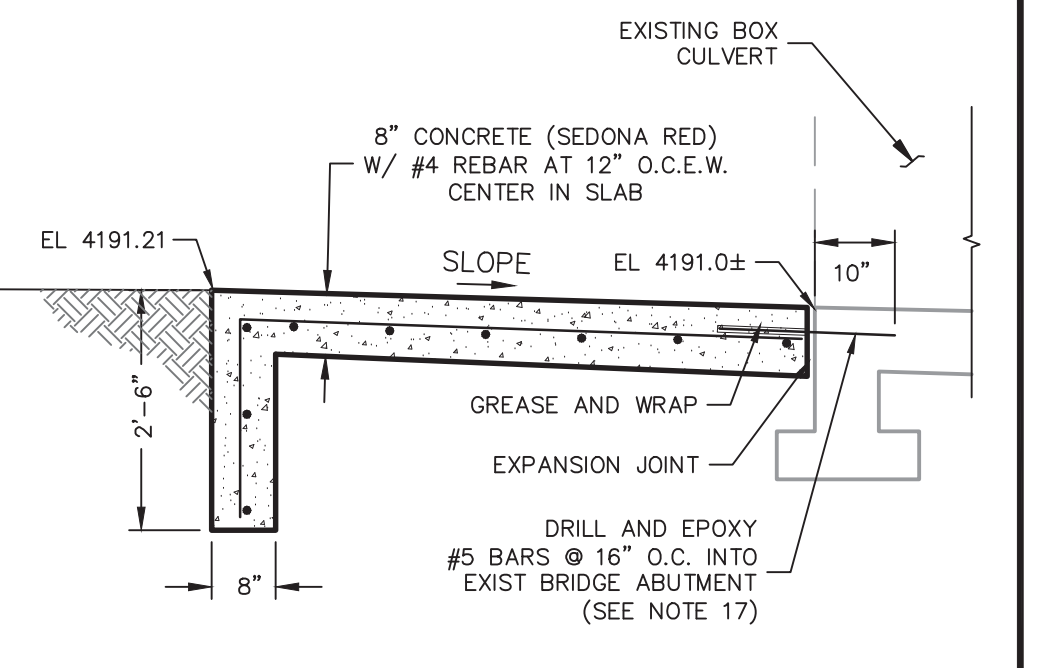
WALL EXTENSION DETAIL (H) NO SCALE C3



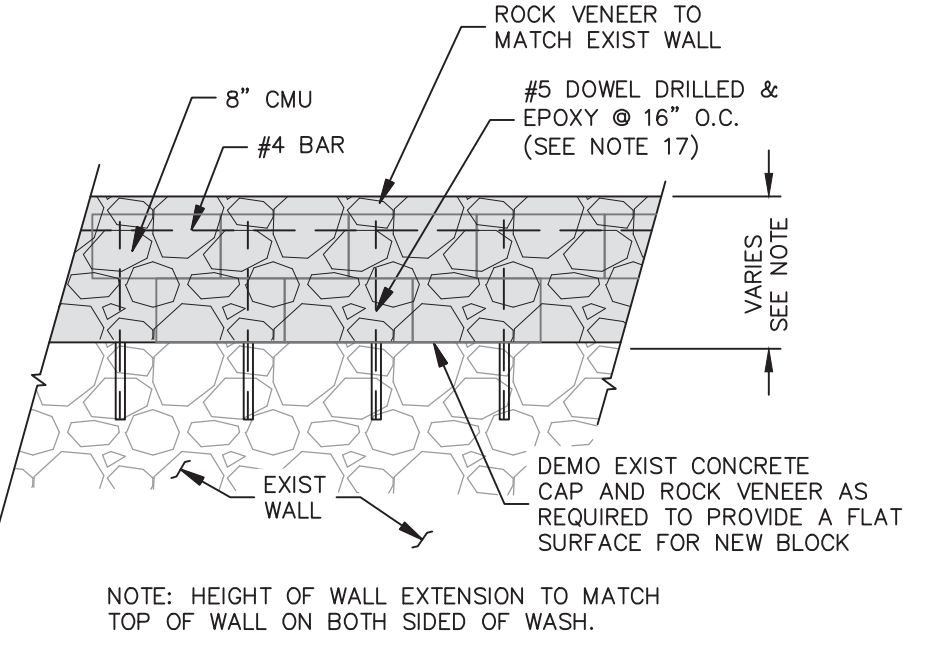
WALL DETAIL (M) NO SCALE C3



WALL DETAIL (J) NO SCALE C3



CONCRETE APRON (K) NO SCALE C3



WALL EXTENSION DETAIL (L) NO SCALE C3

NO.	DESCRIPTION	DATE	BY
1	REVISIONS PER ADDENDUM NO.1	04/03/15	MWJ

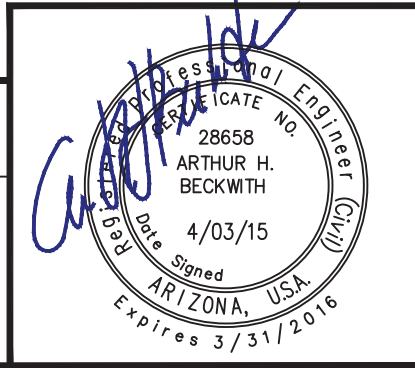
SWI
Shephard Wesnitzer, Inc.
www.swiaz.com

75 Kallof Place
Sedona, AZ 86336
928.282.1061
928.282.2058 fax

JOB NO:	12214
DATE:	APR 15
SCALE:	AS SHOWN
DRAWN:	MWJ
DESIGN:	AHB
CHECKED:	AHB

BREWER RD/TLAQUEPAQUE DRAINAGE IMPROVEMENTS
SEDONA ARIZONA

NOTES AND DETAILS

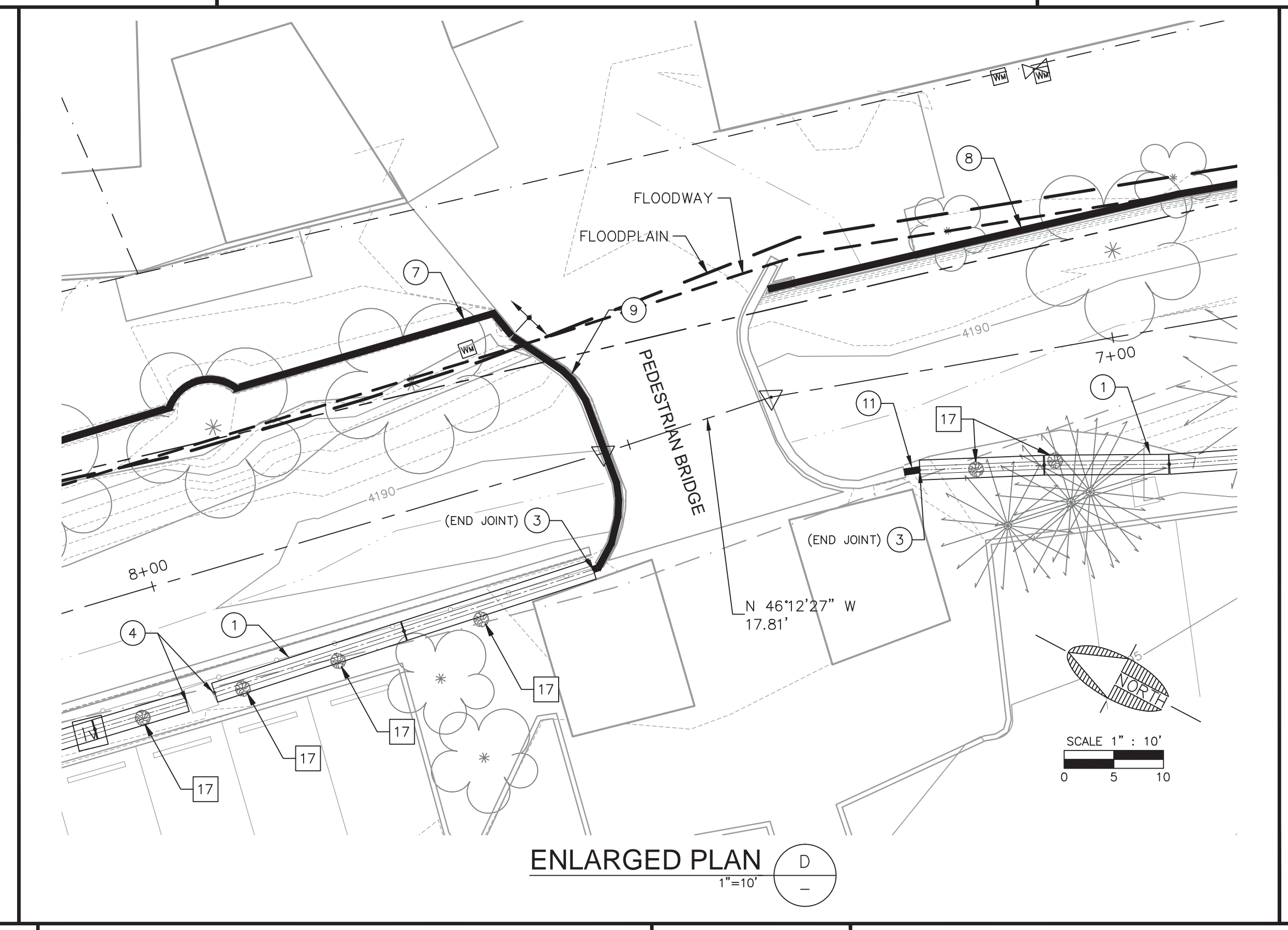
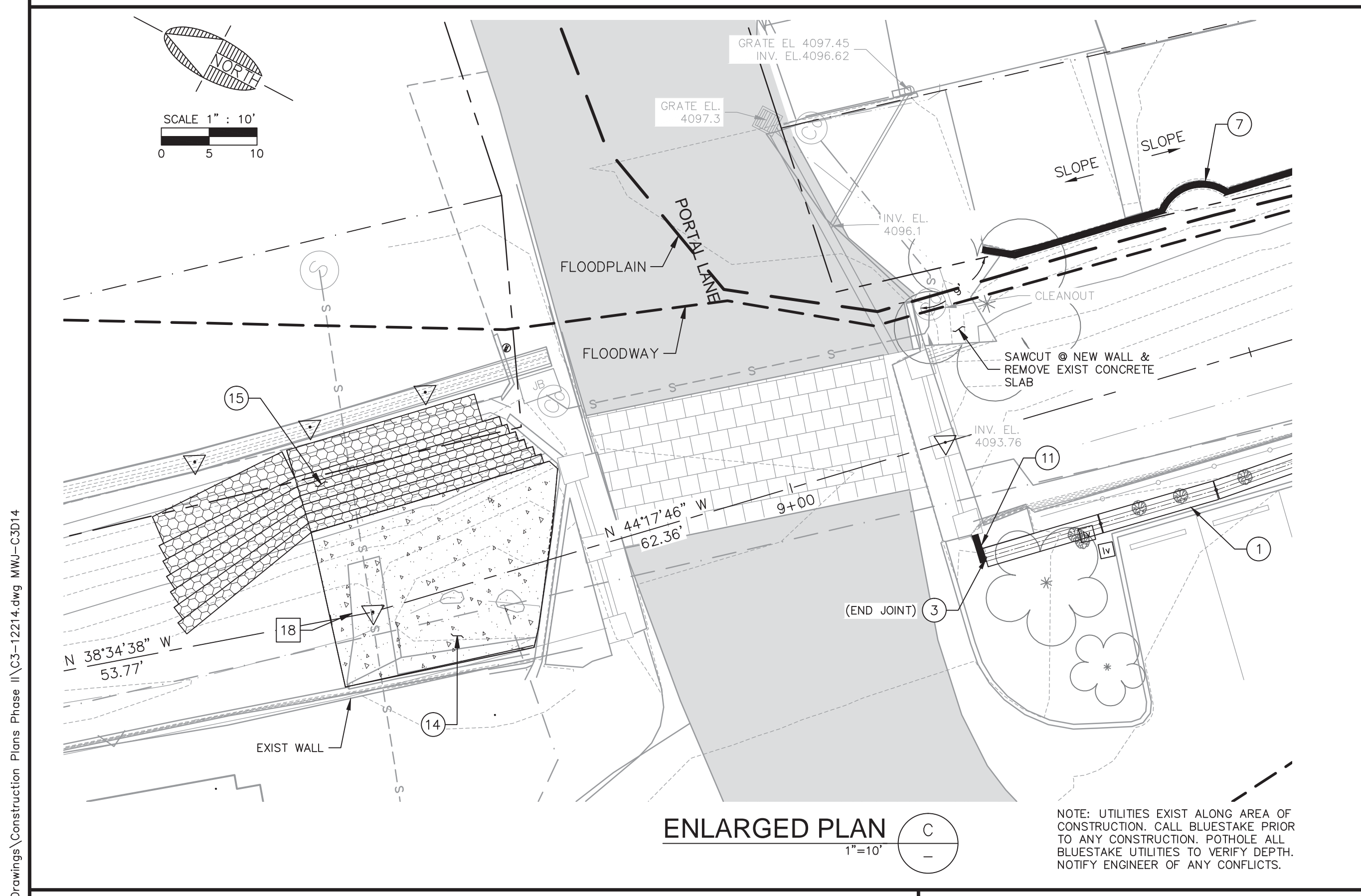
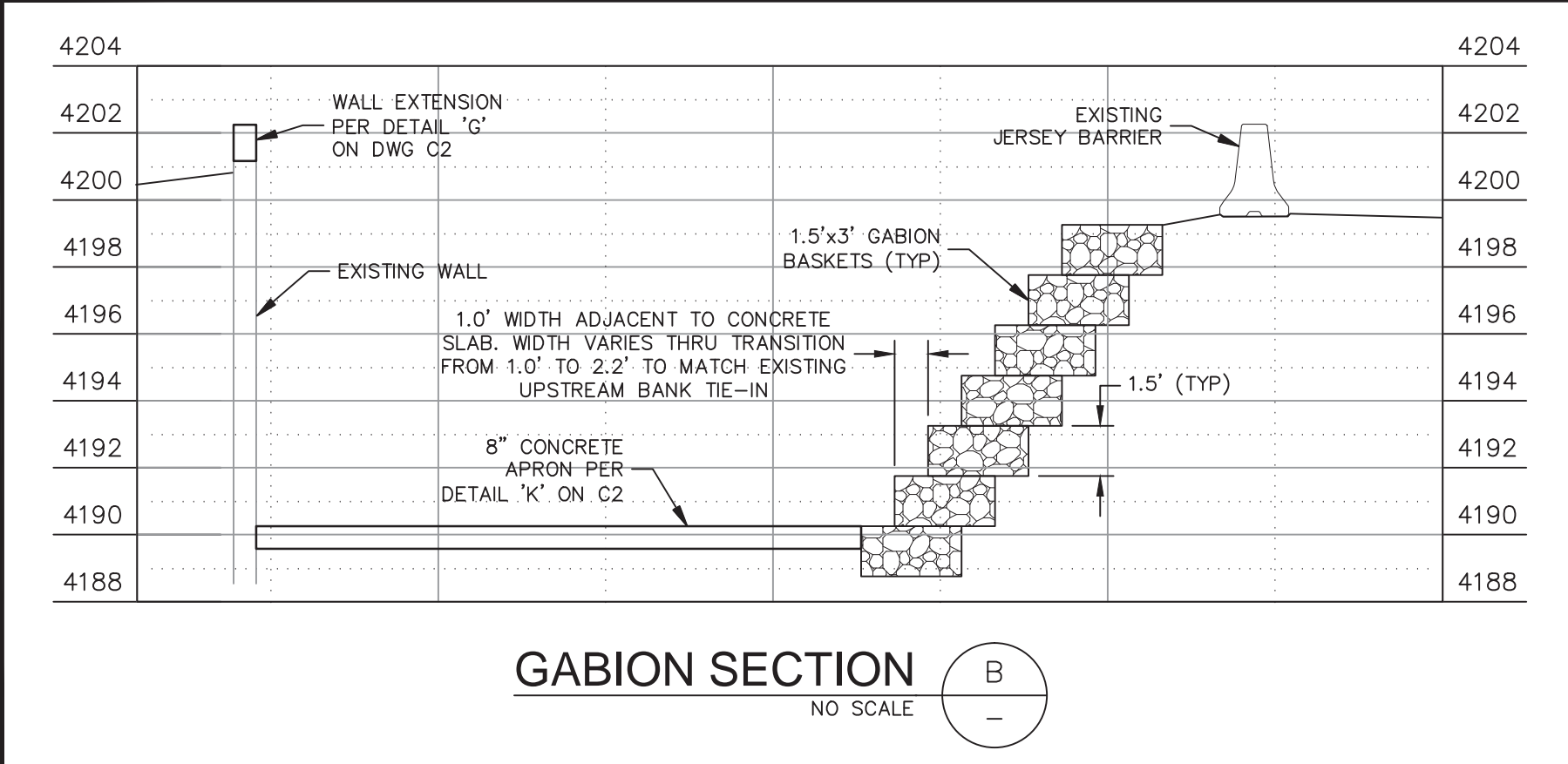
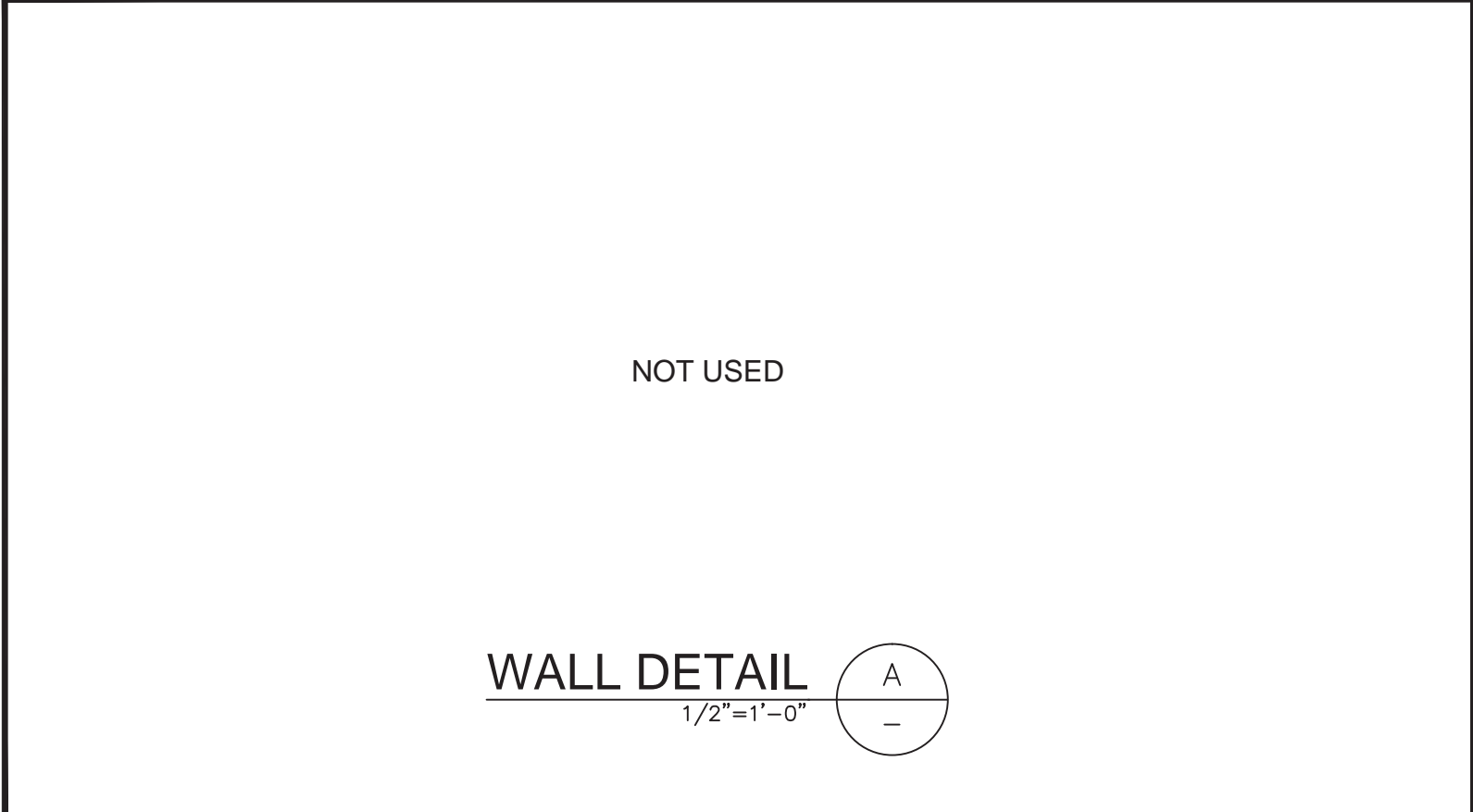
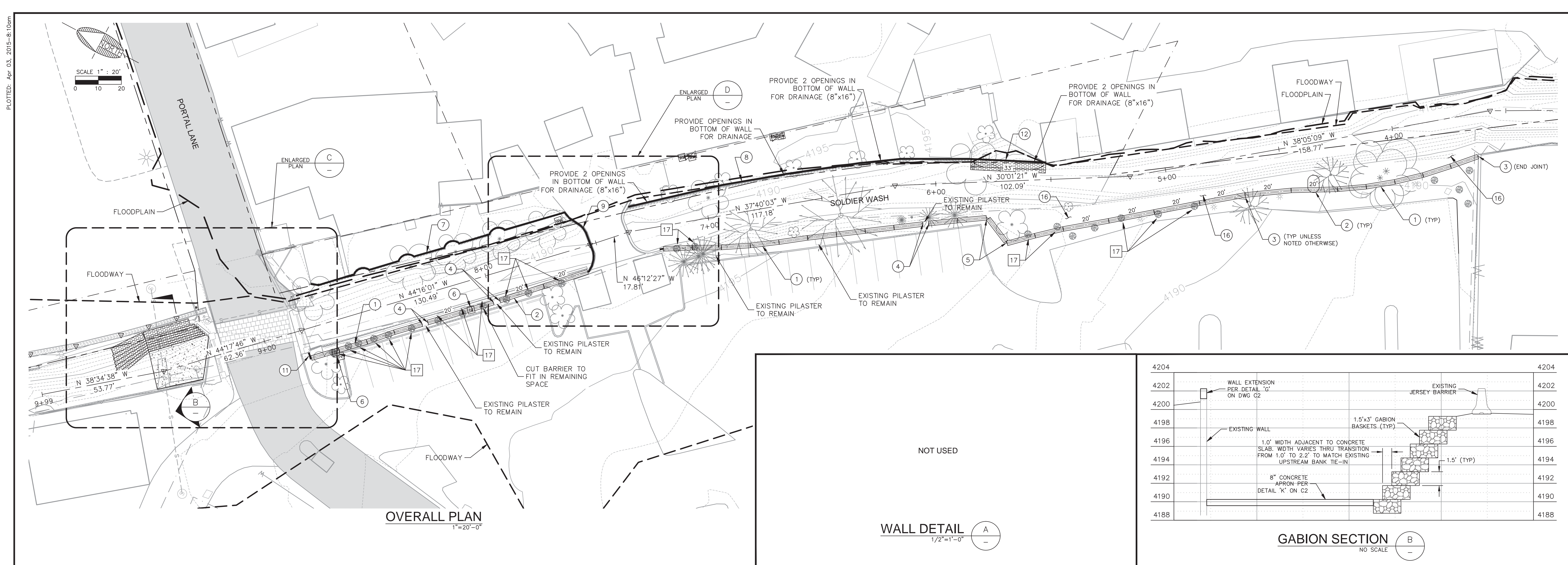


DRAWING NO.	C2
SHT NO.	2
OF	5

CALL TWO WORKING DAYS BEFORE YOU DIG
1-800-STAKE-IT

NOTICE OF EXTENDED PAYMENT PROVISION:
(PER ARS 32-1129.01) THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVALS OF BILLINGS AND ESTIMATES FOR PROGRESS PAYMENTS, WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVALS OF BILLINGS AND ESTIMATES FOR RELEASE OF RETENTION AND WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVAL OF BILLINGS AND ESTIMATES FOR FINAL PAYMENT.

PLOTTED: Apr 03, 2015 - 8:10am



- CONSTRUCTION NOTES**
- 1 (24 EA) INSTALL 12'-6" CONCRETE JERSEY BARRIER AND AGGREGATE BASE FILL PER DETAILS ON DWG C2
 - 2 (9 EA) INSTALL 20'-0" CONCRETE JERSEY BARRIER AND AGGREGATE BASE FILL PER DETAILS ON DWG C2
 - 3 (25 EA) CONSTRUCT BARRIER JOINT CONNECTION PER DETAIL 'B' ON DWG C2
 - 4 (6 EA) CONSTRUCT PILASTER CONNECTION PER DETAIL 'C' ON DWG C2
 - 5 (2 EA) CONSTRUCT EXTENDED BARRIER JOINT CONNECTION PER DETAIL 'D' ON DWG C2
 - 6 (2 EA) RELOCATE EXISTING IRRIGATION VALVES AND BOX TO AN AREA BETWEEN BACK OF CURB AND BASE OF JERSEY BARRIER.
 - 7 (123 L.F.) CONSTRUCT WALL EXTENSION PER DETAIL 'G' ON DWG C2
 - 8 (151 L.F.) CONSTRUCT WALL EXTENSION PER DETAIL 'H' ON DWG C2
 - 9 (29 L.F.) CONSTRUCT WALL EXTENSION PER DETAIL 'L' ON DWG C2
 - 10 NOT USED
 - 11 (5 L.F.) CONSTRUCT WALL TO FILL GAP BETWEEN EXISTING WALL AND NEW JERSEY BARRIER PER DETAIL 'E' ON DWG C2.
 - 12 (33 L.F.) CONSTRUCT WALL PER DETAIL 'M' ON DWG C2
 - 13 NOT USED
 - 14 (12 C.Y.) CONSTRUCT CONCRETE SLAB WITH TURNDOWN PER DETAIL 'K' ON DWG C2
 - 15 (52 C.Y.) REGRADE EXISTING BANK AND PLACE GABION BASKETS PER DETAIL 'B' ON THIS DRAWING.
 - 16 (175 L.F.) REGRADE EXISTING BANK FROM STA 3+75 TO 5+50 TO REMOVE EXISTING BERM AND PROVIDE POSITIVE DRAINAGE TO WASH.
- REMOVAL NOTES**
- 17 (19 EA) REMOVE EXISTING SHRUB
 - 18 (52 S.F.) REMOVE EXISTING CONCRETE

CALL TWO WORKING DAYS BEFORE YOU DIG
1-800-STAKE-IT

NOTICE OF EXTENDED PAYMENT PROVISION:
(PER ARS 32-1129.01) THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVALS OF BILLINGS AND ESTIMATES FOR PROGRESS PAYMENTS, WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVALS OF BILLINGS AND ESTIMATES FOR RELEASE OF RETENTION AND WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVAL OF BILLINGS AND ESTIMATES FOR FINAL PAYMENT.

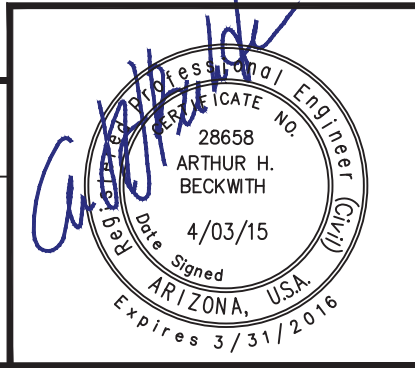
NO.	DESCRIPTION	DATE	BY
1	REVISIONS PER ADDENDUM NO.1	04/03/15	MWJ

SWI
Shephard Wesnitzer, Inc.
www.swiaz.com

75 Kalliof Place
Sedona, AZ 86336
928.282.1061
928.282.2058 fax

JOB NO:	12214
DATE:	APR 15
SCALE:	AS SHOWN
DRAWN:	MWJ
DESIGN:	AHB
CHECKED:	AHB

BREWER RD/TLAQUEPAQUE DRAINAGE IMPROVEMENTS SEDONA ARIZONA

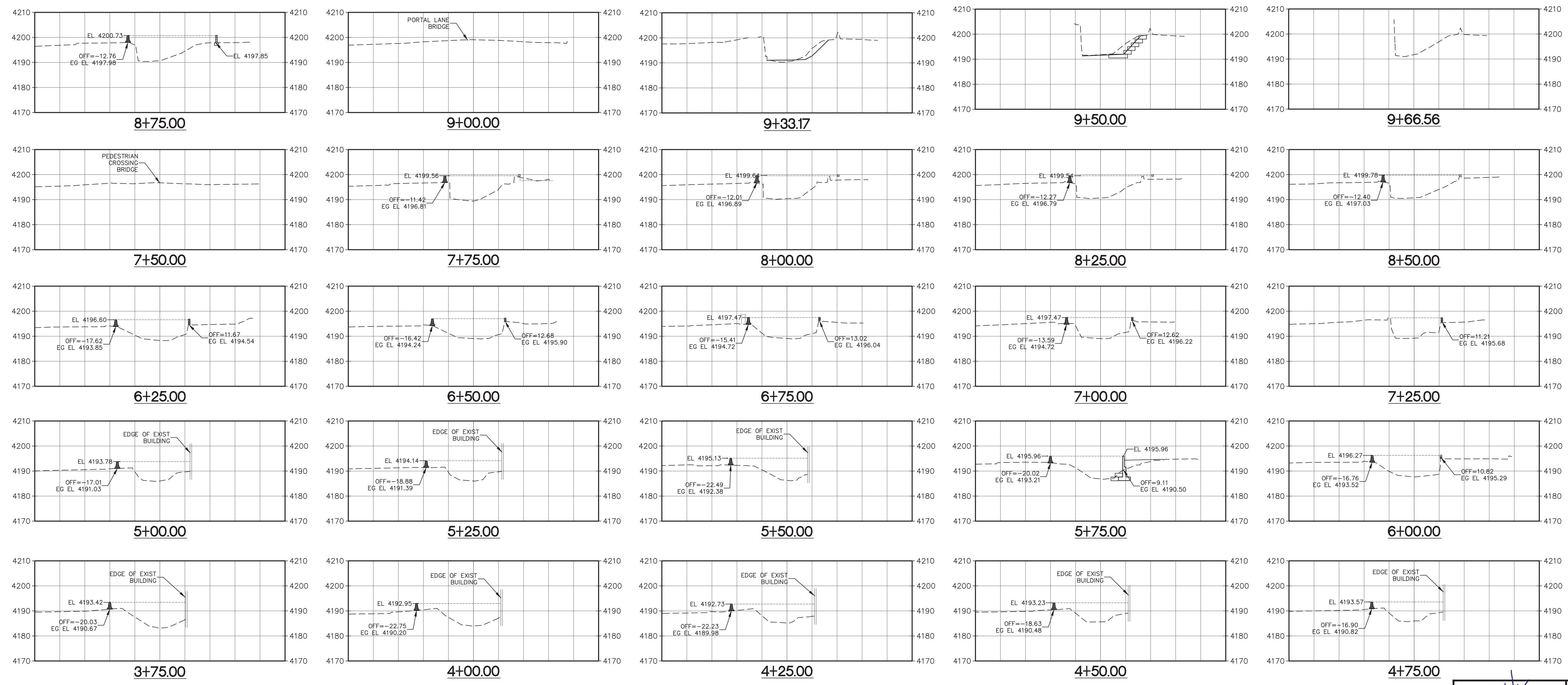
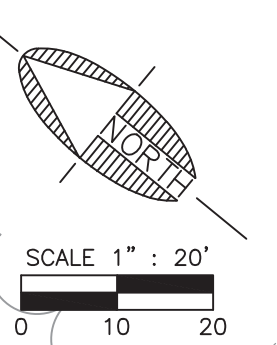
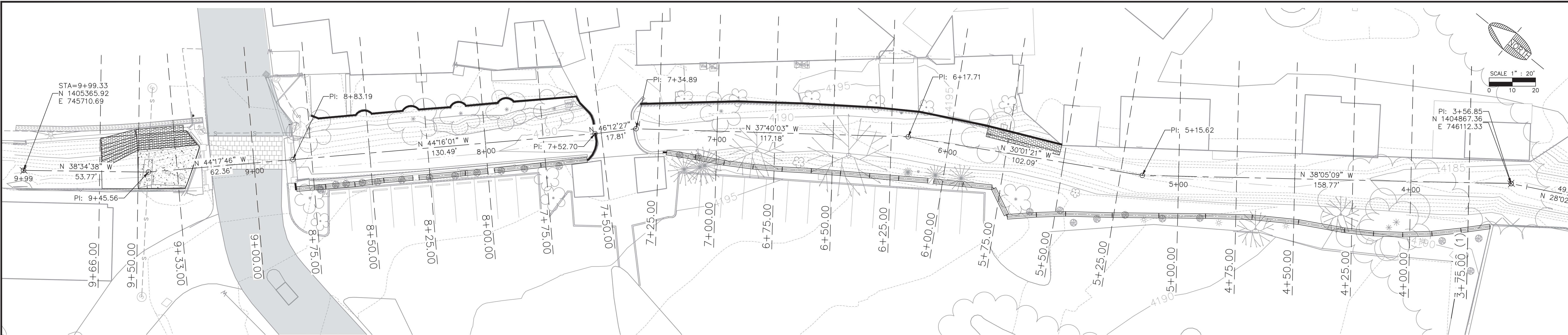


DRAWING NO.	C3
SHT NO.	3
OF	5

LAYOUT PLANS

PLOTTED: Apr 03, 2015 - 8:10am

FILE: P:\2012\1221A\Drawings\C30_VSECTIONS-12214.dwg MWJ-C3014
 Dial 8-1-1 or 1-800-STAKE-IT (782-5348)



Call at least two full working days before you begin excavation.

Arizona Blue Stake, Inc.

NOTICE OF EXTENDED PAYMENT PROVISION:
 (PER ARS 32-1129.01) THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVALS OF BILLINGS AND ESTIMATES FOR PROGRESS PAYMENTS, WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVALS OF BILLINGS AND ESTIMATES FOR RELEASE OF RETENTION AND WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVAL OF BILLINGS AND ESTIMATES FOR FINAL PAYMENT.

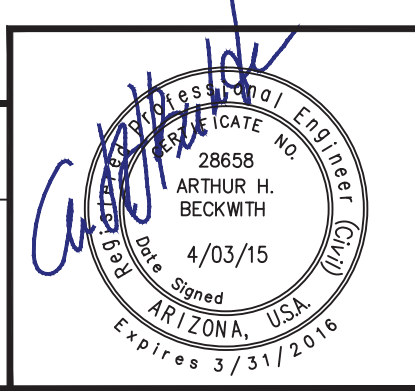
REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	REVISIONS PER ADDENDUM NO.1	04/03/15	MWJ

75 Kalliof Place
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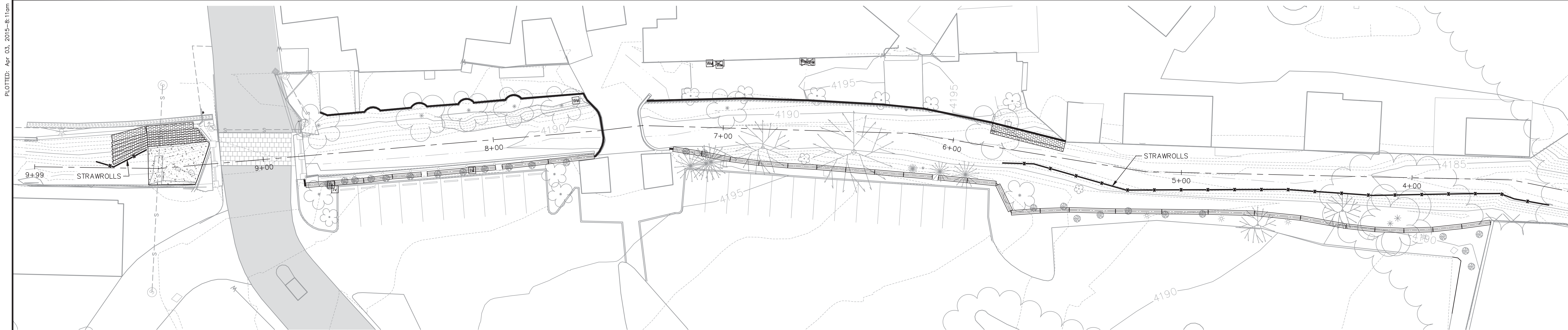
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BREWER RD/TLAQUEPAQUE DRAINAGE IMPROVEMENTS SEDONA ARIZONA

CROSS SECTIONS



DRAWING NO.	C4
SHT NO.	4
OF	5



A EROSION & SEDIMENT CONTROL STANDARD NOTES

- THE CONTRACTOR MUST NOTIFY BLUE STAKE AT 1-800-STAKE-IT AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION IN ACCORDANCE WITH APPLICABLE CITY ORDINANCES AND POLICIES.
- THE CONTRACTOR GRANTS THE RIGHT-OF-ENTRY ON TO THIS PROPERTY TO THE DESIGNATED CITY OF SEDONA PERSONNEL FOR THE PURPOSE OF INSPECTING AND MONITORING FOR COMPLIANCE WITH EROSION AND SEDIMENT CONTROL LAW AND THE DESIGN AND CONSTRUCTION STANDARDS MANUAL.
- ALL EROSION CONTROL MEASURES SHOWN ON THE APPROVED PLAN MUST BE IN PLACE, INSPECTED AND APPROVED BY THE CITY OF SEDONA PRIOR TO CLEARING, STRIPPING OF TOPSOIL OR GRADING.
- THE CONTRACTOR SHALL POST A SIGN AT THE MAIN ENTRANCE TO THE CONSTRUCTION SITE CONTAINING THE AZPDES AUTHORIZATION NUMBER AND/OR COPY OF NOTICE OF INTENT AUTHORIZATION, CONSTRUCTION SITE OPERATOR CONTACT NAME AND TELEPHONE NUMBER, A BRIEF PROJECT DESCRIPTION, AND THE LOCATION OF THE APPROVED STORM WATER POLLUTION PREVENTION PLAN. THE SIGN SHALL ALSO DISPLAY THE NAME, CONTACT INFORMATION, AND QUALIFICATIONS OF THE PERSONNEL PERFORMING ROUTINE INSPECTIONS.
- THE CONTRACTOR'S REPRESENTATIVE IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION.
- ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL COMPLETE AND ADEQUATE STABILIZATION IS ACHIEVED.
- WATER MUST BE PUMPED INTO AN APPROVED FILTERING DEVICE DURING DEWATERING OPERATIONS.
- THE CONTRACTOR'S REPRESENTATIVE SHALL INSPECT AND DOCUMENT ALL EROSION AND SEDIMENT CONTROL MEASURES DAILY AND AFTER EACH SIGNIFICANT RAINFALL. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:
 - SEDIMENT BASINS WILL BE CHECKED REGULARLY FOR SEDIMENT CLEANOUT. SEDIMENT SHALL BE REMOVED AND THE BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE DESIGN VOLUME OF THE WET STORAGE. SEDIMENT REMOVED FROM THE BASIN SHALL BE DEPOSITED IN A SUITABLE AREA AND IN A SUCH A MANNER THAT IT WILL NOT ERODE AND CAUSE SEDIMENTATION PROBLEMS.
 - GRAVEL OUTLETS WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP WHICH WILL PREVENT DRAINAGE. IF THE GRAVEL IS CLOGGED BY SEDIMENT, IT SHALL BE REMOVED AND CLEANED OR REPLACED.
 - SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RESEDED AS NEEDED.
 - STREAM DIVERSION AND STORM CONVEYANCE CHANNELS SHALL BE INSPECTED DAILY AND AFTER EACH RAIN TO ENSURE THEY ARE FUNCTIONING PROPERLY AND THAT THE INTEGRITY OF THE LININGS ARE NOT IMPAIRED. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES MUST BE MADE IMMEDIATELY AFTER THE INSPECTION.
- INSPECTION FORMS SHALL BE COMPLETED BY THE CONTRACTOR'S INSPECTOR WITH THE MINIMUM FOLLOWING INFORMATION: INSPECTION DATE, TITLE AND QUALIFICATIONS OF EACH INSPECTOR, WEATHER INFORMATION FOR PERIOD SINCE LAST INSPECTION, LOCATION OF DISCHARGE OF SEDIMENT OR OTHER POLLUTANTS, LIST OF BMPs THAT NEED TO BE MAINTAINED OR ARE INADEQUATE, LIST ADDITIONAL NEEDED BMPs, CORRECTIVE ACTION REQUIRED, SOURCES OF ALL NON-STORMWATER AND CONTROL MEASURES, DATES WHEN MAJOR GRADING ACTIONS OCCURRED, POLLUTANT DISCHARGE STATUS OF STORAGE AREAS, AND DATES WHEN CONSTRUCTION ACTIVITIES CEASED.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING INSPECTION RECORDS FOR AT LEAST THREE (3) YEARS FOLLOWING THE COMPLETION OF PROJECT. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE KEPT ON SITE AT ALL TIMES AND SHALL BE AMENDED AS NECESSARY TO REFLECT CURRENT SWPPP BMP'S
- THE SWPPP SHALL BE MODIFIED BY THE CONTRACTOR WITHIN 7 CALENDAR DAYS FOLLOWING AN INSPECTION THAT DISCOVERS AN INADEQUATE BMP. BMPs SHALL BE MODIFIED OR ADDED AS SOON AS PRACTICABLE AFTER THE BMP HAS BEEN DETERMINED INADEQUATE.
- SEDIMENT BASIN MEASURES WILL BE INSTALLED AS A FIRST STEP IN GRADING AND WILL BE SEEDED AND MULCHED IMMEDIATELY FOLLOWING INSTALLATION.
- PERMANENT SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED AND ALL WORK COMPLETED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN FOURTEEN (14) DAYS. ROADS AND PARKING AREAS SHALL BE STABILIZED AS SOON AS PRECIPITATION OCCURS OR IRRIGATION IS AVAILABLE.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WILL BE REMOVED WITHIN 30 DAYS AFTER ADEQUATE SITE STABILIZATION AND AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, AS AUTHORIZED BY THE CITY OF SEDONA INSPECTORS. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES WILL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
- WHEN SEDIMENT APPEARS ON A PAVED ROAD SURFACE, THE ROAD WILL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT WILL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING WILL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
- AREAS WHICH ARE NOT TO BE DISTURBED WILL BE CLEARLY MARKED BY FLAGS, SIGNS, ETC.
- A COPY OF THE PROJECT'S STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL

BE MAINTAINED AT THE CONSTRUCTION SITE AND SHALL ALWAYS BE AVAILABLE FOR REVIEW.

- CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING THE SWPPP THROUGHOUT CONSTRUCTION AND INDICATE ANY AND ALL REVISIONS / UPDATES ON THIS PLAN.
- APPROVAL OF PLANS DOES NOT RELIEVE THE OPERATOR FROM CORRECTING ERRORS OR OMISSIONS DISCOVERED DURING CONSTRUCTION. CONFORMANCE WITH THE REQUIREMENTS OF THIS PLAN SHALL IN NO WAY RELIEVE THE OPERATOR FROM HIS RESPONSIBILITIES TO THE SITE AND ADJACENT PROPERTIES. TEMPORARY EROSION CONTROL SHALL CONSIST OF, BUT NOT BE LIMITED TO, CONSTRUCTING SUCH FACILITIES AND TAKING SUCH MEASURES AS ARE NECESSARY TO PREVENT, CONTROL AND ABATE WATER, MUD AND EROSION DAMAGE TO PUBLIC AND PRIVATE PROPERTY AS A RESULT OF THE CONSTRUCTION OF THIS PROPERTY.
- CONTRACTOR SHALL IMMEDIATELY RESTORE ANY DAMAGED EROSION CONTROL MEASURE WITHIN THE PROJECT BOUNDARY.
- FLOOD PLAIN LIMITS SHALL BE CLEARLY MARKED IN THE FIELD BY FLAGS, SIGNS, ETC.
- TREE SAVE AREAS SHALL BE CLEARLY MARKED IN THE FIELD BY ORANGE SAFETY FENCE.
- AN ORANGE SAFETY FENCE MUST BE INSTALLED AROUND ALL SILT TRAPS AND SEDIMENT BASINS.
- SEEDING AND MULCHING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THE WATSON RECREATION SITE, DATED 12-11-2003 BY LYON ENGINEERING AND DEVELOPMENT, INC.
- THE SWPPP SHALL BE MODIFIED BY THE CONTRACTOR WITHIN 15 BUSINESS DAYS FOLLOWING ANY CHANGE IN DESIGN, CONSTRUCTION OPERATION, OR MAINTENANCE THAT HAS A SIGNIFICANT EFFECT ON DISCHARGE OR NOT PREVIOUSLY ADDRESSED IN THE SWPPP.
- THE SWPPP SHALL BE MODIFIED BY THE CONTRACTOR WITHIN 15 BUSINESS DAYS IF IT IS DETERMINED THAT DISCHARGE IS CAUSING OR CONTRIBUTING TO WATER QUALITY EXCEEDENCES OR THE SWPPP IS INEFFECTIVE.
- ALL WORK IN ADOT RIGHT OF WAY SHALL MEET THE REQUIREMENTS OF THE ADOT CONSTRUCTION PERMIT.

B EROSION CONTROL MEASURES

ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS ESTABLISHED HEREIN.

C STRUCTURAL PRACTICES

- STRAW WATTLE BARRIER: STRAW WATTLE BARRIERS WILL BE INSTALLED DOWNSLOPE OF AREAS WITH MINIMAL GRADES TO FILTER SEDIMENT LADEN RUNOFF FROM SHEET FLOW AS INDICATED ON THE PLANS.
- A TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED WHERE THE ACCESS AREA INTERSECTS WITH EXISTING ROADS. DURING MUDDY CONDITIONS DRIVERS OF CONSTRUCTION VEHICLES WILL BE REQUIRED TO WASH THEIR WHEELS BEFORE ENTERING THE HIGHWAY.
- STORM DRAIN INLET & SPILLWAY PROTECTION: ALL STORM SEWER INLETS AND SPILLWAYS SHALL BE PROTECTED DURING CONSTRUCTION. SEDIMENT-LADEN WATER SHALL BE FILTERED BEFORE ENTERING THE STORM SEWER INLETS AND CULVERTS.

D VEGETATIVE PRACTICES

- TOP SOILING (STOCKPILE) TOPSOIL WILL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATIONS ARE TO BE STABILIZED WITH TEMPORARY VEGETATION. PRIOR TO LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION & SEDIMENT PLAN TO THE OWNER COVERING THE STOCKPILE AREA WHICH HAVE TO BE APPROVED BY THE PLAN APPROVING AUTHORITY BEFORE ANY ACTIVITY COMMENCES.
- TEMPORARY SEEDING FOR ALL DENUDED AREAS WHICH WILL BE LEFT DORMANT FOR EXTENDED PERIODS OF TIME SHALL BE SEEDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING. SELECTION OF THE SEED MIXTURE WILL DEPEND ON THE TIME OF YEAR IT IS APPLIED.
- EXISTING VEGETATION WILL BE PRESERVED OUTSIDE ALL LIMITS OF DISTURBANCE.

E MANAGEMENT STRATEGIES

- CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.
- INSTALL TEMPORARY CONSTRUCTION ENTRANCE, MUD AND DEBRIS SHALL BE WASHED FROM ALL CONSTRUCTION VEHICLES AND EQUIPMENT BEFORE LEAVING THE SITE. A WATER TANK TRUCK WILL BE USED IF PUBLIC WATER IS UNAVAILABLE.
- INSTALL PERIMETER CONTROLS AS SHOWN TO INCLUDE DIVERSION DIKES, SILT FENCE, AND STRAW ROLLS. SEDIMENT TRAPPING MEASURES SHALL BE INSTALLED AS A FIRST STEP IN GRADING.
- GRADING OPERATIONS MAY COMMENCE ONCE PERIMETER CONTROLS, DIVERSIONS AND TRAPPING MEASURES ARE INSTALLED.
- FILL SLOPE SURFACES SHALL BE LEFT IN ROUGHENED CONDITION TO REDUCE SHEET AND RILL EROSION OF THE SLOPES. THE CONTRACTOR SHALL REDIRECT CONCENTRATED FLOW AWAY FROM THE FILL SLOPES BY INSTALLING EARTH BERMS AND DIRECT THE RUN-OFF TO STABILIZED OUTLET OR SEDIMENT BASIN AND TRAPPING DEVICES.
- TEMPORARY SEEDING OR OTHER STABILIZATION METHODS WILL FOLLOW IMMEDIATELY AFTER GRADING.
- ONCE THE UTILITIES, CURB AND GUTTER, AND THE ROADS ARE BROUGHT NEAR FINAL GRADE IN A MANNER SUCH THAT STORM SEWER SYSTEMS ARE FUNCTIONAL, INSTALL THE

STANDARD INLET PROTECTION AROUND THE STRUCTURES.

- ONCE FINAL GRADES ARE ESTABLISHED TO CREATE SHEET FLOW CONDITIONS IN ACCORDANCE WITH REQUIRED DRAINAGE PATTERNS, THE CONTRACTOR MAY INSTALL SILT FENCE AND REMOVE EXISTING DIVERSION DIKES AND BASIN ALONG THE SITE PERIMETER WHEN AUTHORIZED BY THE INSPECTOR. INSTALL CHECK DAMS AND OUTLET PROTECTION AS SHOWN ON THE PLAN.
- FOR VEGETATIVE STABILIZATION OF ALL DENUDED AREAS SEE EROSION CONTROL MEASURES AND VEGETATIVE PRACTICES.
- THE JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES.
- AFTER ACHIEVING PERMANENT STABILIZATION, THE TEMPORARY EROSION & SILTATION CONTROLS WILL BE CLEANED UP AND REMOVED FROM THE SITE.

F MAINTENANCE

IN GENERAL, ALL EROSION & SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL.

G GENERAL LAND CONSERVATION NOTES

- VEGETATED STABILIZATION MEASURES MUST BE INITIATED AS SOON AS FINAL GRADING IS COMPLETE AND PRECIPITATION OCCURS OR IRRIGATION IS AVAILABLE.
- ALL EROSION AND SILTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. THE FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR THE PERIMETER CONTROLS.
- DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION DEVICES, MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
- ANY DISTURBED AREAS NOT PAVED, SOODED OR BUILT UPON ARE TO BE MULCHED WITH HAY OR STRAW MULCH AT THE RATE OF TWO TONS PER ACRE AND OVER-SEEDED AS SOON AS PRECIPITATION OR IRRIGATION IS AVAILABLE.
- AT THE COMPLETION OF CONSTRUCTION PROJECTS, AND PRIOR TO THE RELEASE OF THE BOND, ALL TEMPORARY SILTATION AND EROSION CONTROLS SHALL BE REMOVED AND DISTURBED AREAS SHALL BE STABILIZED.
- TEMPORARY DIVERSIONS, SILT FENCE, STRAW ROLL, STONE CONSTRUCTION ENTRANCE AND OTHER CONTROL MEASURES AS NECESSARY ARE TO BE PLACED AS INDICATED ON THE DRAWINGS PRIOR TO OR DURING THE FIRST STEP IN EXCAVATION.
- WHERE CONSISTENT WITH JOB SAFETY REQUIREMENTS, ALL EXCAVATED MATERIAL IS TO BE PLACED ON THE UPHILL SIDE OF TRENCHES; NO MATERIAL IS TO BE PLACED IN STREAMBEDS. WHERE SOIL IS PLACED ON DOWNHILL SIDE OF TRENCHES, IT IS TO BE BACK-SLOPED TO DRAIN TOWARD THE TRENCH, WHEN NECESSARY TO DEWATER THE TRENCHES, THE PUMP DISCHARGE HOSE MUST OUTLET IN A STABILIZED AREA.

H GENERAL NOTES

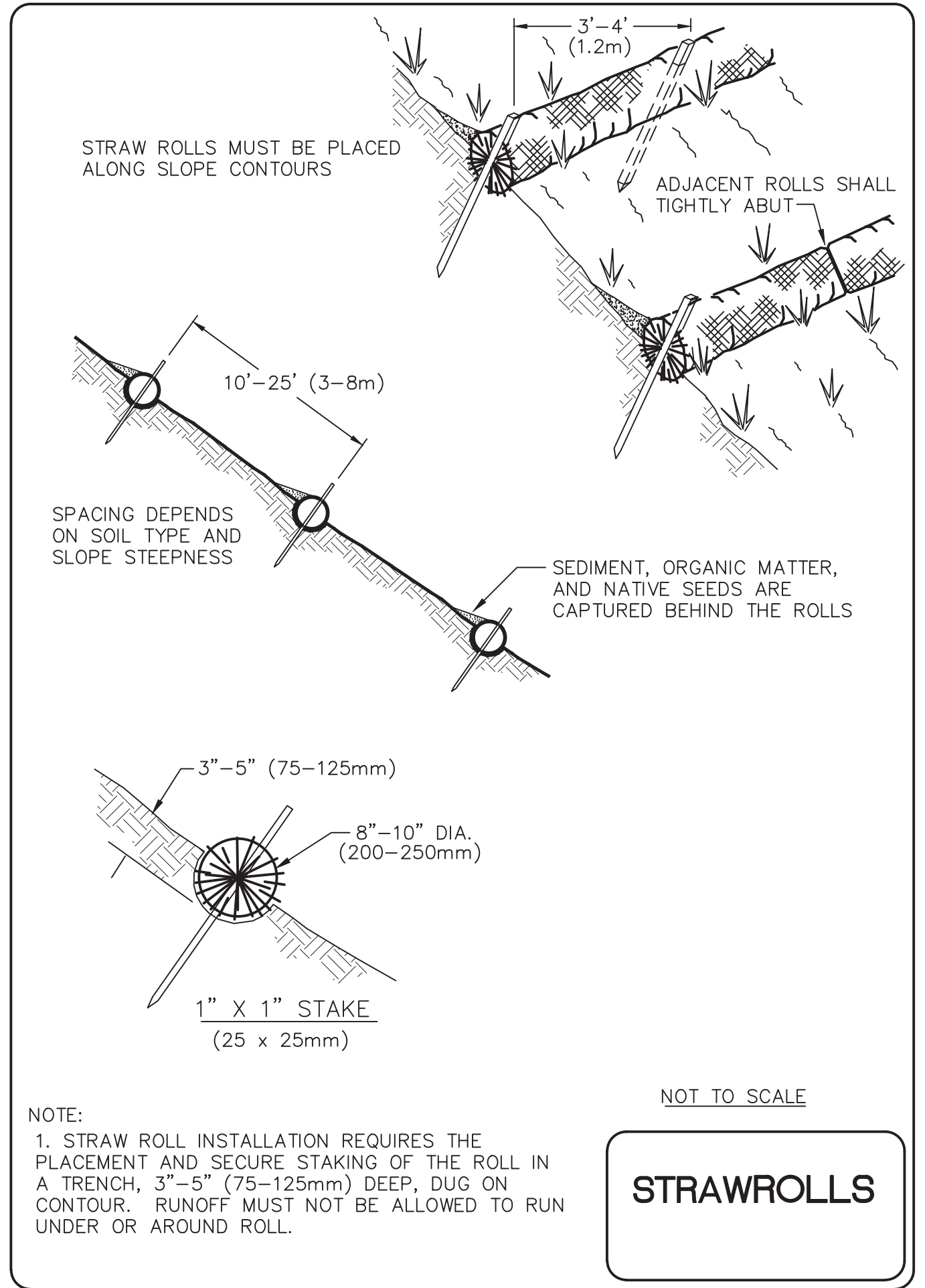
- ALL CONSTRUCTION SHALL CONFORM TO CITY OF SEDONA STANDARDS, MAG STANDARDS, AZPDES STANDARDS AND SPECIFICATIONS, AND GENERALLY ACCEPTED CONSTRUCTION PRACTICE.
 - THESE PLANS REPRESENT A REASONABLE EFFORT TO IMPLEMENT THE MOST CURRENT AND BEST MANAGEMENT PRACTICES (BMP'S) IN MITIGATING STORM WATER POLLUTION DURING CONSTRUCTION. THE EFFECTIVENESS OF THE MITIGATION MEASURES DEPICTED IN THESE PLANS DEPEND IN PART ON PROPER INSTALLATION, IMPLEMENTATION, MAINTENANCE AND REPAIR OF THE DEVICES SELECTED.
 - THE DETAILS SHOWN ON THE DETAIL SHEET ARE BY SHEPHARD - WESNITZER, INC. AND BY EROSION DRAW 4.0 (COPYRIGHT 2002 @JOHN MCULLAH) UNDER A LICENSE AGREEMENT.
 - TOPOGRAPHIC AND BASE MAP INFORMATION (SHOWN FADED ON PLANS) PROVIDED BY SWI AND CITY OF SEDONA GIS.
 - STRAW WATTLE AND SLOPE TREATMENT LOCATIONS SHOWN ON BASE MAP FILES ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT LOCATIONS AND PROVIDING SILT FENCE FOR ALL FILL SLOPES.
- I SEEDING AND MULCHING**
- UNLESS OTHERWISE SPECIFIED IN THE CONSTRUCTION PLANS, ALL DISTURBED SLOPES SHALL BE MULCHED AND SEEDED PER THE FOLLOWING SEED SPECIFICATIONS:
- SEED SHALL BE OF VARIETY SPECIFIED, AND SHALL BE APPLIED AT THE RATE SPECIFIED.
- | PURE LIVE SEED SPECIES | RATE/ACRE |
|---|-----------|
| SAND DRIPSEED (SPOROBOLUS CRYPTANDRUS) | 2 LB |
| SIDEOLATS GRAMA (BOUTELLOUS CURTIPENDULA) | 10 LB |
| CRESTED WHEATGRASS (AGROPYRON CRISTATUM) | 10 LB |
- SEEDING OPERATIONS SHALL NOT BE PERFORMED WHEN WIND WOULD PREVENT UNIFORM APPLICATION OF MATERIALS OR WOULD CARRY SEEDING MATERIALS INTO AREAS NOT DESIGNATED TO BE SEEDED.
 - THE EQUIPMENT AND METHODS USED TO DISTRIBUTE SEEDING MATERIALS SHALL BE SUCH AS TO PROVIDE AN EVEN AND UNIFORM APPLICATION OF SEED, MULCH AND OTHER MATERIALS AT THE SPECIFIED RATES.
 - SEEDING OPERATIONS SHALL NOT BE PERFORMED ON UNDISTURBED SOIL OUTSIDE THE CLEARING AND GRUBBING LIMITS OF THE PROJECT OR ON STEEP ROCK CUTS.
 - IMMEDIATELY BEFORE SEEDING, THE SURFACE AREA SHALL BE RAKED OR OTHERWISE

LOOSENED TO OBTAIN A SMOOTH FRIABLE SURFACE FREE OF EARTH CLODS, HUMPS AND DEPRESSIONS. LOOSE STONES HAVING A DIMENSION GREATER THAN ONE INCH AND DEBRIS BROUGHT TO THE SURFACE DURING CULTIVATION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR IN A MANNER APPROVED BY THE ENGINEER.

- THE AREA TO BE SEEDED SHALL BE ROUGHENED WITH GROOVES PARALLEL TO THE CONTOURS PRIOR TO SEEDING. A BULLDOZER OR CRAWLER TRACTOR SHALL BE DRIVEN UP AND DOWN THE SLOPE PARALLEL TO THE FALL LINE TO CREATE A TRACKWALKED SLOPE. THE SEEDS SHALL BE UNIFORMLY APPLIED A DIRECTION PARALLEL TO THE CONTOURS OF THE SLOPE. ALTERNATE SURFACE TREATMENT METHODS MAY BE APPROVED BY THE ENGINEER.
- IMMEDIATELY AFTER SEEDING, THE AREA SHALL BE UNIFORMLY COVERED WITH SCREENED MANURE AT THE RATE OF ONE CUBIC YARD PER 1,000 SQUARE FEET AND THEN WATERED UNTIL THE GROUND IS WET TO A MINIMUM DEPTH OF TWO INCHES.
- WATER SHALL BE FREE OF OIL, ACID, SALTS OR OTHER SUBSTANCES WHICH ARE HARMFUL TO PLANTS. THE SOURCE SHALL BE AS APPROVED BY THE ENGINEER PRIOR TO USE.
- THE CONTRACTOR SHALL PROTECT SEEDED AREAS FROM DAMAGE BY TRAFFIC OR CONSTRUCTION EQUIPMENT. SURFACES WHICH ARE ERODED OR OTHERWISE DAMAGED FOLLOWING SEEDING AND PRIOR TO FINAL ACCEPTANCE SHALL BE REPAIRED BY REGRADING, RESEEDING AND REMULCHING AS DIRECTED BY THE ENGINEER.

GENERAL NOTES FOR SWPPP

- A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR ANY DAMAGED EROSION CONTROL MEASURES, ESPECIALLY WHEN RAIN IS IMMINENT.
- ALL PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH DAY.
- AFTER A RAIN STORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS AND DESILTING BASINS. ANY GRADED SLOPE SURFACE PROTECTION MEASURE DAMAGED DURING A RAIN STORM SHALL BE IMMEDIATELY REPAIRED.
- PROTECT ALL STORM DRAINAGE STRUCTURES FROM SEDIMENT CLOGGING BY PROVIDING INLET PROTECTION AT ALL OPENINGS.
- AVOID PAVING DURING WET WEATHER.
- STORE MATERIALS AWAY FROM DRAINAGE COURSES TO PREVENT CONTACT WITH STORM WATER.
- PLACE DRIP PANS OR ABSORBENT MATERIALS UNDER CONSTRUCTION EQUIPMENT WHEN NOT IN USE.
- CLEAN UP SPILLS WITH ABSORBENT MATERIALS.
- OLD ASPHALT MUST BE DISPOSED OF PROPERLY.
- KEEP WORK SITE CLEAN AND ORDERLY DAILY.
- PROPERLY STORE PAINTS AND SOLVENTS.
- PERMANENTLY MARK STORM DRAIN STRUCTURES IN A MANNER APPROVED BY THE CONSTRUCTION INSPECTOR TO MINIMIZE INADVERTENT DISPOSAL OF RESIDUAL PAINTS, SOLVENTS, OR ANY OTHER POLLUTANT.
- ALLOW MATERIAL DELIVERY AND STORAGE ONLY IN DESIGNATED AREAS AND AVOID TRANSPORT NEAR DRAINAGE PATHS AND WATERWAYS.
- MINIMIZE THE USE OF HAZARDOUS MATERIALS ON SITE.
- CLEAN UP LEAKS AND SPILLS IMMEDIATELY.
- USE WATERTIGHT DUMPSTERS FOR TRASH AND CONSTRUCTION WASTE.
- COLLECT SITE TRASH AS NEEDED, ESPECIALLY DURING RAINY OR WINDY CONDITIONS.
- ARRANGE FOR REGULAR WASTE COLLECTION BEFORE CONTAINERS OVERFLOW.
- DO NOT ALLOW BRUSHES OR PAINT CONTAINERS TO BE CLEANED OUT IN THE DIRT, STREET, CUTTER, OR STORM DRAIN.
- STORE AND COVER DRY AND WET MATERIALS FROM CONCRETE PLACEMENT AWAY FROM DRAINAGE AREAS.
- PERFORM WASHOUT OF CONCRETE TRUCKS IN DESIGNATED AREAS ONLY. WASHOUT AREAS SHALL BE AWAY FROM STORM DRAINS, OPEN DITCHES, OR STREETS.
- TEMPORARY SANITARY FACILITIES SHALL BE MAINTAINED IN GOOD WORKING ORDER BY A LICENSED SERVICE.
- CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER THAT STORM WATER WILL BE CONTAINED WITHIN THE PROJECT OR CHANNELLED INTO THE STORM DRAIN SYSTEM PROVIDED THAT IT IS FREE FROM POLLUTANTS AND DEBRIS.
- CLEARING AND GRUBBING SHOULD BE LIMITED TO AREAS THAT WILL RECEIVE IMMEDIATE GRADING. EROSION CONTROL MEASURES WILL BE REQUIRED TO PROTECT AREAS WHICH HAVE BEEN CLEARED AND GRUBBED. THESE MEASURES MAY INCLUDE BUT NOT BE LIMITED TO: GRADED DITCHES, SAND OR GRAVEL BAGS, BARRIERS AND SILT FENCING. CARE SHALL BE EXERCISED TO PRESERVE VEGETATION BEYOND LIMITS OF GRADING AND PREVENT SEDIMENT DISCHARGE WHILE CONSTRUCTION IN THIS AREA IS ACTIVE.
- SEDIMENT CONTROL SHALL BE USED AT THE TOE OF ANY ERODIBLE SLOPE.
- FACES OF FINISHED CUT AND FILL SLOPES SHALL BE PREPARED AND MAINTAINED TO CONTROL AGAINST EROSION. THESE PERMANENT CONTROL MEASURES MAY CONSIST OF ADEQUATE SEEDING, PLANTING AND JUTE MATTING. THE PROTECTION FOR THE SLOPES SHALL BE INSTALLED AS SOON AS PRACTICABLE AND PRIOR TO CALLING FOR FINAL APPROVAL.
- AFTER A RAIN STORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM STREETS, CHECK BERMS AND BASINS.



NOTE:
1. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"-5" (75-125mm) DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

STRAWROLLS

CONTRACTOR/OPERATOR
(OPERATIONAL, DAY TO DAY CONTROL)

NAME: _____
ADDRESS: _____
CITY: _____ STATE: _____ ZIP: _____
PHONE: _____

APPROVED: _____
CITY ENGINEER

Call at least two full working days before you begin excavation.

Arizona Blue Stake Inc.

NOTICE OF EXTENDED PAYMENT PROVISION:
(PER ARS 32-1129.01) THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVALS OF BILLINGS AND ESTIMATES FOR PROGRESS PAYMENTS, WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVALS OF BILLINGS AND ESTIMATES FOR RELEASE OF RETENTION AND WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVAL OF BILLINGS AND ESTIMATES FOR FINAL PAYMENT.

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	REVISIONS PER ADDENDUM NO.1	04/03/15	MWJ

75 Kallof Place
Sedona, AZ 86336
928.282.1061
928.282.2058 fax
www.swiaz.com

JOB NO:	12214
DATE:	APR 15
SCALE:	AS NOTED
DRAWN:	MWJ
DESIGN:	AHB
CHECKED:	AHB

BREWER RD/TLAQUEPAQUE DRAINAGE IMPROVEMENTS
SEDONA ARIZONA

STORM WATER POLLUTION PREVENTION PLAN

DRAWING NO.	SW1
SHT NO.	5
OF	5