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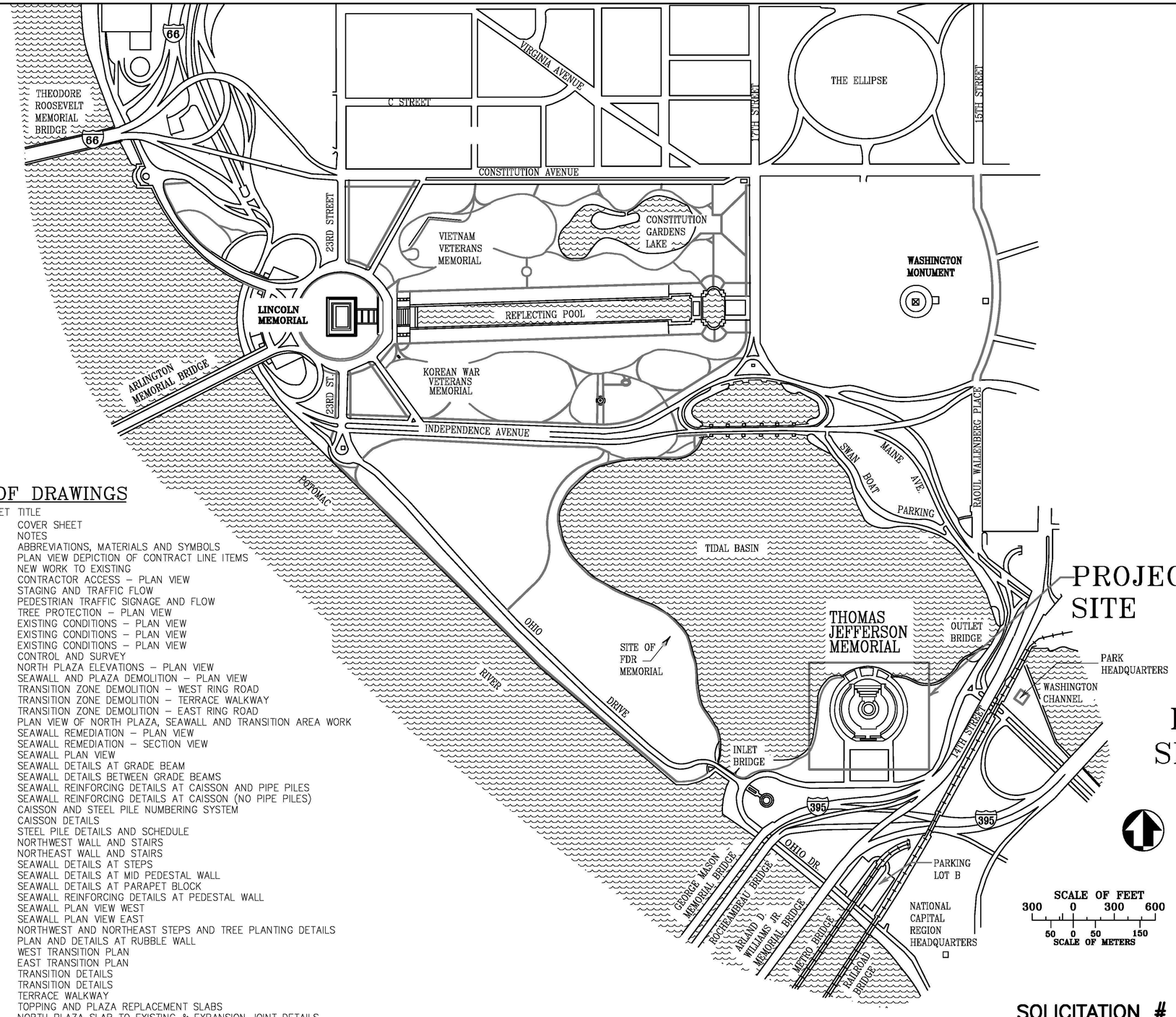
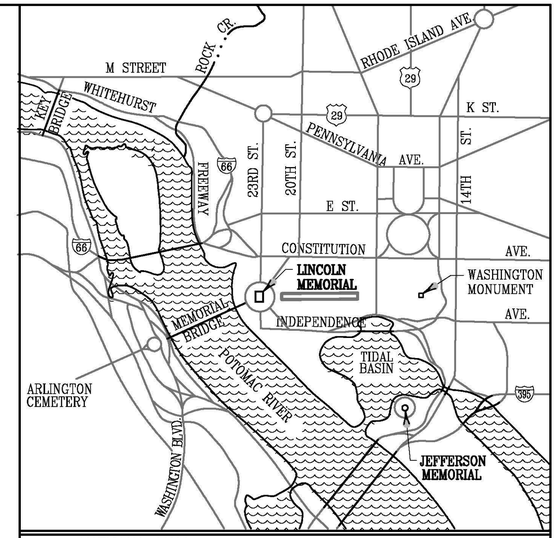




AS-BUILT PROJECT RECORD DRAWINGS BASED ON FIELD SET BY CLARK CONSTRUCTION (SEPTEMBER 2011)

EMERGENCY REPAIRS FOR SETTLEMENT AT JEFFERSON MEMORIAL SEAWALL

JEFFERSON MEMORIAL

SOLICITATION # 1443N2011090072
PMIS NAMA 128232

INDEX OF DRAWINGS

BASIC DATA: DWG. 808/41011 DATED 1/98

A/E FIRM – A/E CONTRACT NO.		Mark	Sheet	REVISION	Date	Initial
PRIME/ARCH: HNTB ARCHITECTURE WASHINGTON D.C.	CIVIL: SCHNABEL ENGINEERING WEST CHESTER PA	A	ALL	AS-CONSTRUCTED	11/11/11	JM

CONSTRUCTION QUALITY DESIGN CERTIFICATION

☐ Prepared in Accordance with Design Development (Title I) Drawing No.
OR
☐ Variance from Design Development (Title I) Approved by Superintendent on Date
OR
☐ Construction Drawing Not Preceded by Design Development (Title I)

Project Manager Date

AS-CONSTRUCTED DRAWINGS

UNITED STATES
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
DENVER SERVICE CENTER

TITLE OF PROJECT
EMERGENCY REPAIRS FOR SETTLEMENT AT JEFFERSON MEMORIAL SEAWALL
LOCATION WITHIN PARK
JEFFERSON MEMORIAL
NAME OF PARK
NATIONAL MALL AND MEMORIAL PARKS
REGION: NATIONAL CAPITAL | COUNTY: NATIONAL MALL | STATE: WASHINGTON, D.C.

DRAWING NO. 808 25005A
PMIS/PKG NO. 128232
SHEET 1 OF 54

3/12/12 11:55 \\NMKTNA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\GEN\C1 COVER.DWG
G:\2009Jobs\09150062 Jefferson Memorial Title III Services\C-ADD\AS BUILTS\T1-FLY\128232\GEN\C1 COVER.dwg, 3/12/2012 11:55:50 AM, pmiller

NOTES

CODES AND SPECIFICATIONS:
1) THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING CODES AND SPECIFICATIONS. IN THE EVENT OF A CONFLICT WITH THE CONTRACT DOCUMENTS, THE CONTRACT DOCUMENTS SHALL GOVERN

- ACI BUILDING CODE 301–2005 SPECIFICATIONS FOR STRUCTURAL CONCRETE.
- ACI BUILDING CODE 315–1999. DETAILS AND DETAILING OF CONCRETE REINFORCING.
- ACI BUILDING CODE 318–2008. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- ASTM A 615. STANDARD SPECIFICATION FOR DEFORMED AND PLAIN CARBON–STEEL BARS FOR CONCRETE REINFORCEMENT.
- FHWA–IF–99–025. DRILLED SHAFTS: CONSTRUCTION PROCEDURES FOR CARBON STRUCTURAL STEEL.
- IBC 2006.

REGULATORY REQUIREMENTS:
1) WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND IN ACCORDANCE WITH US ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT (NWP) NUMBER 3, AS PUBLISHED IN THE MARCH 12, 2007 FEDERAL REGISTER, FINAL NOTICE OF ISSUANCE, REISSUANCE, AND MODIFICATION OF NWPS (72 FR 11090) AND ALL APPLICABLE CONDITIONS AND MANAGEMENT PRACTICES. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND NWP #3, NOTIFY THE CONTRACTING OFFICER IMMEDIATELY AND PRIOR TO PERFORMANCE OF THE WORK IN QUESTION.

2) WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE DISTRICT DEPARTMENT OF THE ENVIRONMENT NPDES PERMIT FOR THIS PROJECT. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE NPDES
PERMIT REQUIREMENTS FOR THIS PROJECT, NOTIFY THE CONTRACTING OFFICER IMMEDIATELY AND PRIOR TO PERFORMANCE OF THE WORK IN QUESTION.

3) WORK SHALL BE PERFORMED IN ADHERENCE TO ALL APPLICABLE REGULATORY TIME–OF–YEAR RESTRICTIONS, AS SPECIFIED BELOW. IN THE EVENT THAT ANY REGULATORY TIME–OF–YEAR RESTRICTIONS WHICH ARE NOT SPECIFIED BELOW OR WHICH ARE NOT SPECIFIED ELSEWHERE IN THE CONTRACT
DOCUMENTS ARE IMPOSED ON PROJECT WORK, NOTIFY THE CONTRACTING OFFICER IMMEDIATELY AND PRIOR TO PERFORMANCE OF THE WORK IN QUESTION.

4) TIME–OF–YEAR RESTRICTIONS ON WORK BETWEEN MARCH 1ST AND JUNE 30TH DUE TO ANADROMOUS FISH MIGRATION AND SPAWNING SEASON: ALL WORK IN THE TIDAL BASIN BETWEEN THESE DATES SHALL BE PERFORMED WITHIN A PROPER TURBIDITY CURTAIN INSTALLED IN ACCORDANCE WITH ALL APPLICABLE REGULATORY, SWPPP, AND CONTRACT DOCUMENT REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO SCHEDULE THE WORK ACCORDINGLY AND TO ENSURE COMPLIANCE WITH ALL REGULATORY REQUIREMENTS.

5) WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE DISTRICT DEPARTMENT OF THE ENVIRONMENT WATER QUALITY CERTIFICATION FOR THIS PROJECT, WHICH IS DDOE CERTIFICATION #DC–09–002 DATED MARCH 24, 2009. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE WATER QUALITY CERTIFICATION FOR THIS PROJECT, NOTIFY THE CONTRACTING OFFICER IMMEDIATELY AND PRIOR TO PERFORMANCE OF THE WORK IN QUESTION. ANY REQUIREMENTS IMPOSED BY THE DDOE, WHICH ARE NOT ARTICULATED IN THE WATER QUALITY CERTIFICATION FOR THIS PROJECT, OR DEPICTED IN THE CONTRACT SPECIFICATIONS OR DRAWINGS, WILL BE ADDRESSED UNDER THE CHANGES CLAUSE OF THIS CONTRACT.

6) WORK SHALL BE PREPARED IN ACCORDANCE WITH NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES DATED JANUARY 8, 2009.

RELATED DOCUMENTS:
1) INVESTIGATION OF SETTLEMENT AND UPHEAVAL AT THE JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS, WASHINGTON, D.C., DATED JANUARY 30, 2008.

2) CONDITION ASSESSMENT OF THE ASHLAR SEAWALL MEMO, DATED MAY 16, 2008.

3) CORE REPORT FOR THE ASHLAR SEAWALL, DATED JULY 22, 2008.

4) REPAIR AND CONTROL SETTLEMENT MEMO – QUARTERLY MONITORING OF INSTRUMENTATION AND SURVEY POINTS, DATED JULY 10, 2008, REVISED JULY 24, 2008.

5) NORTH PLAZA CONE PENETRATION TEST AND SOUNDING REPORT, DATED OCTOBER 6, 2008.

6) JEFFERSON MEMORIAL PLAZA INVESTIGATION REPORT, DATED OCTOBER 6, 2008.7) NORTH PLAZA INSTRUMENTATION INSTALLATION REPORT FOR THE JEFFERSON MEMORIAL, DATED OCTOBER 6, 2008.

8) REPAIR AND CONTROL SETTLEMENT MEMO – QUARTERLY MONITORING OF INSTRUMENTATION AND SURVEY POINTS, DATED NOVEMBER 11, 2008.

GENERAL NOTES:
1) DELIVERY HOURS ARE 6:00AM TO 5:00PM AND REQUIRE 48 HOURS ADVANCE NOTICE FOR K9 SWEEPS IF ENTERING THE JEFFERSON MEMORIAL SECURED AREA.

2) WORKING HOURS ARE WEEKDAYS 6:00AM TO 5:00PM; PREAPPROVE ANY SATURDAY, SUNDAY, HOLIDAY WORK OR ADDITIONAL HOURS WITH CONTRACTING OFFICER.

3) ON SITE PARKING IS NOT AVAILABLE FOR CONSTRUCTION WORKERS. OFF–SITE PARKING IS AVAILABLE BY PERMIT IN LOT B ON OHIO DRIVE.

4) CONTRACTOR IS RESPONSIBLE FOR, BUT NOT LIMITED TO, RESTORATION AND/OR REPAIR OF AREAS OR SITE FEATURES DISTURBED OR DAMAGED DURING THE CONTRACTOR'S PERFORMANCE OF THE WORK INCLUDING DAMAGE TO PAVING, CURBING, SIDEWALKS, GUTTERS, LAWNS, IRRIGATION SYSTEMS, AND HISTORIC MASONRY.

5) THE CONTRACTOR SHALL PRESERVE AND PROTECT HISTORIC MASONRY WORK ADJACENT TO THE PROJECT CONSTRUCTION LIMITS INCLUDING NORTH STEPS AND ASSOCIATED FEATURES.

6) THE CONTRACTOR SHALL PREPARE AND SUBMIT A WORK PLATFORM PLAN. THE PLAN SHALL ADDRESS THE MEANS BY WHICH THE CONTRACTOR WILL EXECUTE THE WORK ASSOCIATED WITH THE SEAWALL, INCLUDING COFFERDAM AND DRILLED AND DRIVEN ELEMENT INSTALLATION. SUBMIT THE PLAN IN ACCORDANCE WITH SPECIFICATION 01 33 00. THE CONTRACTOR MAY UTILIZE THE EXISTING NORTH PLAZA AS A WORKING PLATFORM. THE LOAD ON THE NORTH PLAZA SHALL NOT EXCEED 250 PSF. THE CONTRACTOR SHALL SUBMIT THE WORK PLATFORM PLAN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE DISTRICT OF COLUMBIA TO THE CONTRACTING OFFICER FOR APPROVAL. THE SUBMITTAL SHALL INCLUDE, BUT NOT BE LIMITED TO, INFORMATION INDICATING PROPOSED EQUIPMENT TO BE USED DURING CONSTRUCTION, THE ANTICIPATED LOAD SCENARIOS TO RESULT DUE TO CONSTRUCTION OPERATIONS, AND THE PROPOSED PROTECTIVE MEASURES TO BE INSTALLED AT THAT SITE TO PREVENT DAMAGE TO THE HISTORIC FEATURES AT THE SITE INCLUDING TEMPORARY SHORING AND LOAD DISTRIBUTION IMPROVEMENTS.

7) THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES BEFORE ANY EXCAVATION OR INSTALLATION OF FOUNDATION ELEMENTS. FOR LOCATION OF SUBGRADE UTILITIES, THE CONTRACTOR IS REFERRED TO THE UTILITY DRAWINGS, THE UTILITY LOCATIONS SHOWN HEREIN WERE PROVIDED BY THE NATIONAL PARK SERVICE, AND ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL NOTIFY MISS UTILITY PRIOR TO START OF WORK TO FIELD VERIFY AND COMPLETE THE UTILITY LOCATIONS. A PRIVATE UTILITY LOCATOR IS REQUIRED TO LOCATE NON–PUBLIC UTILITIES.

8) PERMISSION TO USE THE STAGING AREAS SHOWN IN THESE DRAWINGS IS GRANTED WITH THE PROVISO THAT THE CONTRACTOR PRESERVE AND PROTECT ALL NATURAL, CULTURAL AND INFRASTRUCTURE FEATURES TO REMAIN INCLUDING SIDEWALKS, CURBS, TREES, SHRUBS, UTILITIES AND IRRIGATION SYSTEM COMPONENTS AND THAT THE CONTRACTOR REPAIR OR REPLACE ANY AND ALL PORTIONS OF THESE FEATURES DAMAGED DURING THE CONTRACTOR'S PERFORMANCE OF THE WORK.

9) THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN A GUARD SHACK AT THE CONTRACTOR ENTRANCE TO THE PROJECT SITE. THIS GUARD SHACK SHALL REMAIN IN PLACE FOR THE FULL DURATION OF THE CONSTRUCTION CONTRACT. ADJACENT TO THIS GUARD SHACK, THE CONTRACTOR SHALL INSTALL A GOVERNMENT FURNISHED PLATE BARRIER AND MAINTAIN IT FOR THE FULL DURATION OF THE CONTRACT.

10) INFORMATION PROVIDED ON THESE DRAWINGS RELATED TO EXISTING CONDITIONS IS BASED ON AVAILABLE DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR TO INFORM CONTRACTING OFFICER UPON DISCOVERY OF ANY DISCREPANCY BETWEEN CONTRACT DRAWINGS AND ACTUAL EXISTING CONDITIONS.

11) CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF STRUCTURAL COMPONENTS.

12) BASED ON HISTORICAL DOCUMENTS PROVIDED BY NATIONAL PARK SERVICE, THE EXISTING NORTH PLAZA GRADE BEAM PILES CONSIST OF 14BP73 WITH AN ALLOWABLE LOAD CAPACITY OF 65 TON. EXISTING NORTHWEST WALKWAY GRADE BEAM PILES CONSIST OF HP 14X89 WITH AN ALLOWABLE LOAD CAPACITY OF 90 TONS.

13) THE CONTRACTOR SHALL BE AWARE OF POSSIBLE DRILLING OR DRIVING OBSTRUCTIONS SUCH AS RIPRAP, EXISTING TIMBER PILES, EXISTING SHEET PILES AND CONCRETE. ALL MEANS AND METHODS MUST BE SELECTED AND IMPLEMENTED TO ASSURE THAT NO DAMAGE IS OCCASIONED TO EXISTING SEAWALL AND NORTH PLAZA STRUCTURES DURING DRILLING OR DRIVING OPERATIONS.

14) PUBLIC ACCESS TO THE JEFFERSON MEMORIAL SHALL BE MAINTAINED AT ALL TIMES.

15) USE OF THE INLET BRIDGE FOR EQUIPMENT AND MATERIAL TRANSPORTATION OR OTHER CONSTRUCTION TRAFFIC IS PROHIBITED.

RFI 40, 4/13/10 ALL BORINGS TO BE DONE IN SPECIFIED LOACTIONS

GEOTECHNICAL INFORMATION:
1) SIX TEST BORINGS, AND SUBSEQUENT ROCK CORINGS, SHALL BE PERFORMED BY THE CONTRACTOR: THREE TEST BORINGS AT CAISSON TIP LOCATIONS, AND THREE TEST BORINGS AT PIPE PILE TIP LOCATIONS. FINAL TEST BORING LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE CONTRACTING OFFICER. TEST BORINGS SHALL BE TREMIE GROUTED UPON COMPLETION TO PREVENT ANY COLLAPSE OF THE BORING HOLE. WORK SHALL BE DONE IN ACCORDANCE WITH SPECIFICATION 02 32 00.

2) ALL ROCK CORING (TEST BORINGS) SHALL BE COMPLETED AND SAMPLES DELIVERED TO THE CONTRACTING OFFICER PRIOR TO BEGINNING ANY DRILLED SHAFT CONSTRUCTION.

3) THE INDICATED PILE TIP ELEVATIONS AND ROCK SOCKET LENGTHS ARE APPROXIMATE AND ARE BASED ON AVAILABLE SUBSURFACE EXPLORATION DATA. ACTUAL PILE TIP ELEVATIONS AND ROCK SOCKET LENGTHS SHALL BE DETERMINED BY THE CONTRACTING OFFICER DURING CONSTRUCTION AND SHALL BE BASED ON ACTUAL ROCK TYPES AND CONDITIONS ENCOUNTERED AS IDENTIFIED BY ADDITIONAL TEST BORING ROCK CORE SAMPLES THAT SHALL BE OBTAINED BY THE CONTRACTOR.

GRANITE FEATURES:
1) ALL FACING, COPING STONES, GRANITE STEPS, PEDESTALS, CURBING AND OTHER GRANITE/STONE FEATURES SHALL BE NUMBERED, INVENTORIED AND CATALOGED PRIOR TO DISASSEMBLY AND REMOVAL. ALL EXISTING STONES SHALL BE CLEANED AND, IF NECESSARY, REPAIRED IN PREPARATION FOR REINSTALLATION. REINSTALLATION OF GRANITE FEATURES SHALL MATCH LAYOUT AND LOCATION OF THE EXISTING CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR REINSTALLING THE GRANITE FEATURES SO AS TO NOT CAUSE ANY DEVIATION OR CHANGE TO CURRENT LAYOUT AND LOCATIONS.

AGGREGATE TOPPING COURSE:
1) CONTRACTOR SHALL IDENTIFY AND LOG EXISTING SLAB EXPANSION JOINTS AND SCORE PATTERNS IN ACCORDANCE WITH SPECIFICATION 02 21 13.

2) NEW EXPOSED AGGREGATE TOPPING TO MATCH THE EXISTING EXPOSED AGGREGATE TOPPING IN APPEARANCE, TEXTURE, FINISH, AND SCORING PATTERN IN ACCORDANCE WITH SPECIFICATION 03 35 23.

DRIVEN PILES:
1) PIPE PILES WILL WORK PRIMARILY IN COMPRESSION. DESIGN ALLOWABLE LOADS AT THE SEAWALL PILE HEADS ARE:
COMPRESSION = 354 KIPS
NEGATIVE SKIN FRICTION = 365 KIPS

RFI 0045, 5/27/10
PILE LOAD TEST OPTIONS

TRANSITION ZONES ARE:
COMPRESSION = 433 KIPS

2) DRIVEN PILE STEEL SHALL BE
FY = 50 KSI.

3) CONTRACTOR SHALL PERFORM PILE DRIVING ANALYZER TESTING ON ~~ONE~~ BOTH SACRIFICIAL TEST PILES AND AT SIX PRODUCTION PILES.

RFI 0057, 8/23/10 – REQUIRED PDA TESTING

4) THE CONTRACTOR SHALL INSTALL THE DRIVEN PILES WITHIN THE SPECIFIED TOLERANCES, DIMENSIONS, ETC., INDICATED IN THE PLANS AND SPECIFICATIONS.

5) HORIZONTAL AND VERTICAL LOCATIONS OF PIPE PILES ALONG THE SEAWALL, ARE SHOWN IN REFERENCE TO THE CAISSONS. LOCATIONS OF PIPE PILES SHALL BE FIELD LOCATED TO THE CENTER OF THE NEW CAISSONS AND SHALL BE SPLAYED AND BATTERED PERPENDICULAR TO THE CURVE OF THE NEW SEAWALL.

RFI 0061, 9/8/10 –
ADDITIONAL PILE TESTING

CAISSONS:
1) CAISSONS WILL WORK PRIMARILY IN BENDING AND TENSION.
ALLOWABLE DESIGN LOADS ARE:
TENSION = 525 KIPS
SHEAR = 131 KIPS
MOMENT = 25,600 KIP–IN

2) ROCK SOCKETS FOR CAISSONS SHALL BE TERMINATED IN COMPETENT ROCK ONLY. ROCK SOCKETS FOR CAISSONS SHALL NOT BE TERMINATED IN OVERBURDEN, DISINTEGRATED ROCK, OR OTHER SOIL LIKE MATERIALS.

3) THE CONTRACTOR SHALL PERFORM CROSSHOLE SONIC LOGGING(CSL) ON TWO CAISSONS IN THE FIRST CLIN AND ONE CSL AT EACH ADDITIONAL CLIN LOCATION.

RFI 0049, 5/27/10
ADDITIONAL CSL TUBES INSTALLED

4) THE CONTRACTOR SHALL INSTALL THE CAISSONS WITHIN THE SPECIFIED TOLERANCES, DIMENSIONS, ETC., INDICATED IN THE PLANS AND SPECIFICATIONS.

5) HORIZONTAL AND VERTICAL LOCATIONS OF CAISSONS SHOWN IN PLANS ARE IN REFERENCE TO HISTORICAL INFORMATION OF THE EXISTING GRADE BEAMS. LOCATIONS OF CAISSONS AT GRADE BEAMS SHALL BE FIELD LOCATED TO CENTER LINE OF THE EXISTING GRADE BEAMS, CAISSONS SHOWN AT NON–GRADE BEAM LOCATIONS SHALL BE LOCATED AT THE MID–POINT BETWEEN GRADE BEAM CAISSONS ALONG AN ARC THAT MATCHES THE CURVE OF THE SEAWALL.

EXCAVATION AND BACKFILL:
1) THE CONTRACTOR SHALL PERFORM THE EXCAVATION OF EARTH MATERIALS AT THE LOCATIONS AND TO THE LINES AND GRADES SHOWN ON THE CONTRACT DRAWINGS, AND STOCKPILE AND/OR DISPOSE ALL MATERIALS AS SPECIFIED IN THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE CONTRACTING OFFICER.

2) BACKFILL BEHIND SEAWALL TO SUPPORT SLAB SHALL CONSIST OF FILL, OR FLOWABLE FILL, BELOW 6" OF #57 CLEAN STONE AGGREGATE BASE COURSE. SEE SPECIFICATION 31 23 23.

RFI 0106, 12/14/10 – BACKFILL BETWEEN PLAZA GRADE BEAMS

COFFERDAM:
1) CONTRACTOR SHALL PROVIDE TEMPORARY SHEET PILE COFFERDAM AND DEWATERING. CONTRACTOR SHALL COORDINATE THE LOCATION AND DEPTH OF THE TEMPORARY SHEET PILE COFFERDAM AS TO NOT INTERFERE WITH THE INSTALLATION OF THE BATTERED PILES. CONTRACTOR TO ADDRESS BRIDGING OF THE DEWATERING ENVELOPE BENEATH THE EXISTING GRADE BEAMS TO ENSURE DEWATERING IS ACHIEVED AND MAINTAINED AS SPECIFIED. DESIGN OF COFFERDAM AND DEWATERING PLAN SHALL BE PROVIDED BY AN ENGINEER REGISTERED IN THE DISTRICT OF COLUMBIA AND SUBMITTED ACCORDING TO SPECIFICATION 01 33 00. TEMPORARY SHEET PILES SHALL BE REMOVED FOLLOWING COMPLETION OF WORK.

2) THE CONTRACTOR SHALL FURNISH AND INSTALL STEEL SHEET PILES AT THE LOCATION AND TO THE LIMITS SHOWN ON THE CONTRACT DRAWINGS OR AS DIRECTED BY THE CONTRACTING OFFICER.

CONCRETE:
1) THE CONTRACTOR SHALL PREPARE AND PLACE THE CONCRETE (NEW CONCRETE SEAWALL, CONCRETE BEAMS, AND CONCRETE BLOCKS) AT THE LOCATION AND TO THE LIMITS SHOWN ON THE CONTRACT DRAWINGS. CONCRETE SHALL BE PREPARED AND MIXED TO OBTAIN THE COMPRESSIVE STRENGTH AS IN THE PLANS AND SPECIFICATIONS.

2) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.

3) REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO ASTM A–615, GRADE 60 (FY=60KSI).

4) ALL REINFORCEMENT SHALL HAVE A MINIMUM COVER OF 3" UNLESS OTHERWISE NOTED.

5) CONCRETE CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE APPLICABLE SECTION OF ACI 301–05 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND 318–08 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."

DESIGNED: DW, JG, HR CADD: NSF, MD, JM TECH. REVIEW: DW, JG DATE: 6–15–09	SUB SHEET NO. G1	TITLE OF SHEET: NOTES THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 2 OF 54

11/28/11 13:55 JMKITKA R18 G:\2009JOBS\09150082 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\TIME\128232\GEN\G1 SYMBOLS.DWG

ABBREVIATIONS

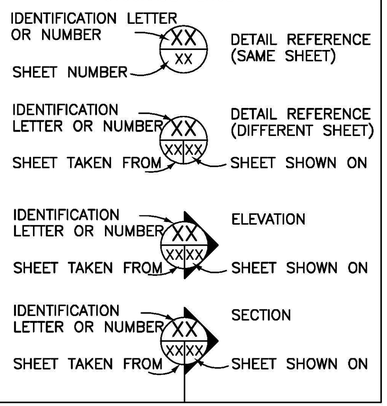
&	AND
<	ANGLE
@	AT
℄	CENTERLINE
o	DEGREE
Ø	DIAMETER
%	PERCENT
#	NUMBER
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BOT (BOTT.)	BOTTOM
C–C	CENTER TO CENTER
CL	CLEAR
CLIN	CONTRACT LINE ITEM NUMBER
CONC.	CONCRETE
CONT	CONTINUOUS
COR	CONTRACTING OFFICER'S REPRESENTATIVE
DEMO	DEMOLISH
DET.	DETAIL
DIA.	DIAMETER
DWG	DRAWING
EX	EXISTING
f'c	COMPRESSIVE STRENGTH OF CONCRETE
FHWA	FEDERAL HIGHWAYS ADMINISTRATION
FT	FEET
Fy	YIELD STRESS
GSI	GUEST SERVICES, INCORPORATED
GRD	GROUND
GRAN	GRANITE
H	HORIZONTAL
HOR	HORIZONTAL
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IN	INCH
INV.	INVERT
KSI	KIPS PER SQUARE INCH
MIN.	MINIMUM
MID	MIDDLE OF
N.T.S.	NOT TO SCALE
NPS	NATIONAL PARK SERVICE
O.C.	ON CENTER
POLY.	POLYETHYLENE
PSI	POUNDS PER SQUARE INCH
REINF.	REINFORCEMENT
SCH	SCHEDULE
SHT	SHEET
SPEC	SPECIFICATION
SS	STAINLESS STEEL
T&B	TOP & BOTTOM
TEMP.	TEMPORARY
TYP.	TYPICAL
USPP	UNITED STATES PARK POLICE
V	VERTICAL
W/	WITH

MATERIALS

- CLOSED TO THE PUBLIC DURING WORK AT TERRACE WALKWAY
- RUBBLE STONE MASONRY
- AGGREGATE BASE COURSE
- REMOVED, SALVAGED, CLEANED, AND REINSTALLED
- EXTENT OF DEMOLITION
- LIMITS OF CONSTRUCTION
- RIPRAP
- ROCK
- GROUT
- CONCRETE
- EXPOSED AGGREGATE TOPPING
- STAGING AREA
- EARTH
- ROOT PROTECTION

SYMBOLS

- DIRECTION OF FLOW
- × 264.00 EXISTING SPOT ELEVATION
- ---UE--- EXISTING UNDERGROUND ELECTRIC
- —UT— EXISTING UNDERGROUND TELEPHONE
- 12 EXISTING CONTOURS
- EXISTING TREE LINE
- —ST— EXISTING STORM SEWER
- STAGING FENCE
- CONSTRUCTION FENCE
- EXISTING H PILE
- LIGHT FIXTURE
- EXISTING LIGHT POLE BASE
- EXISTING PLANT
- NORTH ARROW
- BIKE RACK
- AMERICAN RECOVERY AND REINVESTMENT ACT SIGN
- PUBLIC ACCESS
- MATERIALS AND PERSONNEL PATH
- TRAFFIC FLOW
- TREE PROTECTION FENCE
- STOCKADE FENCE



DESIGNED: DW, JG, HR	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO. 808 25005A
CADD: NSF, MD	G2	ABBREVIATIONS MATERIALS AND SYMBOLS	PMIS/PKG NO. 128232
TECH. REVIEW: DW, JG		THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	SHEET 3 OF 54
DATE: 6–15–09			

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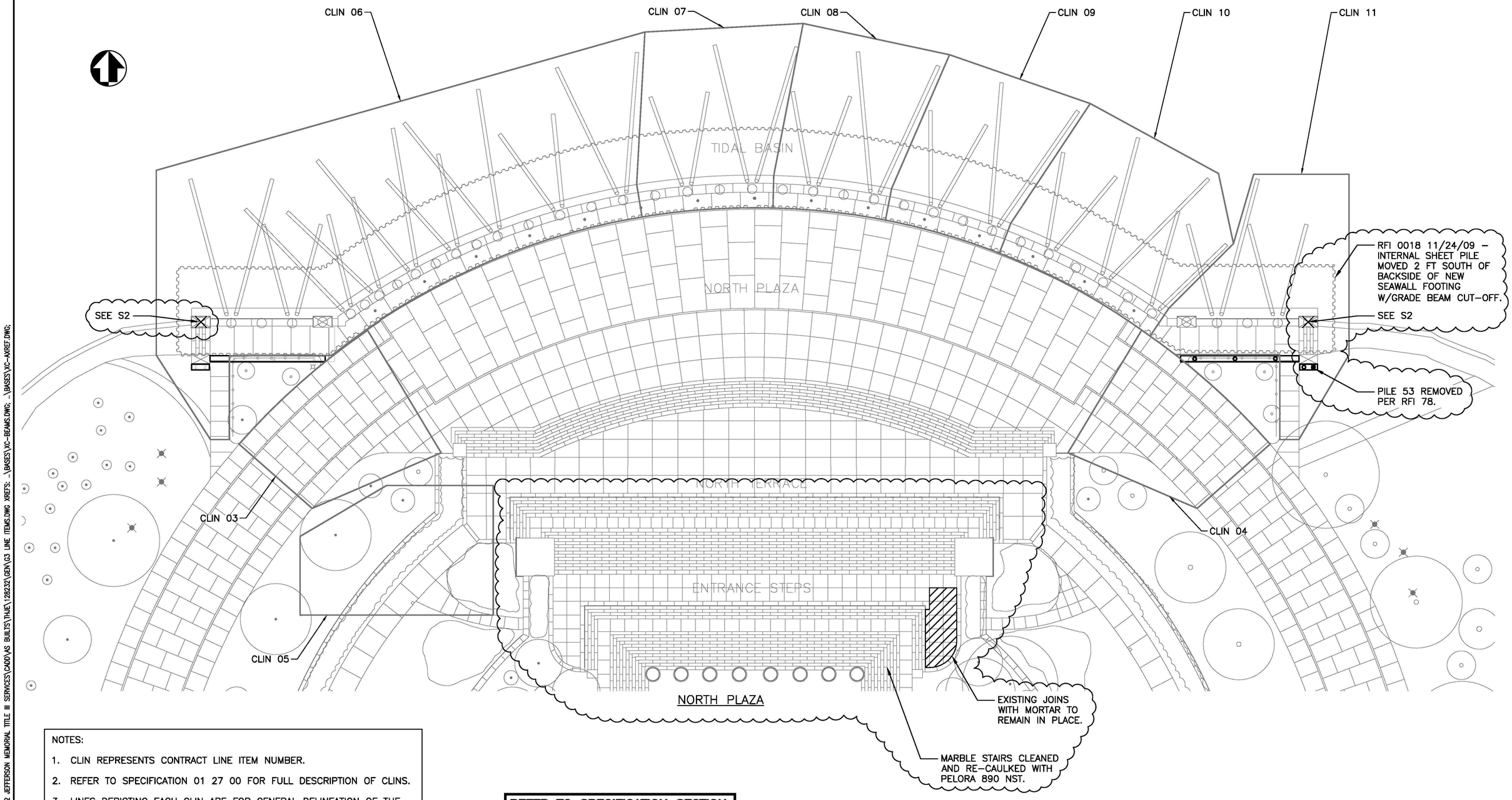


NOTES:

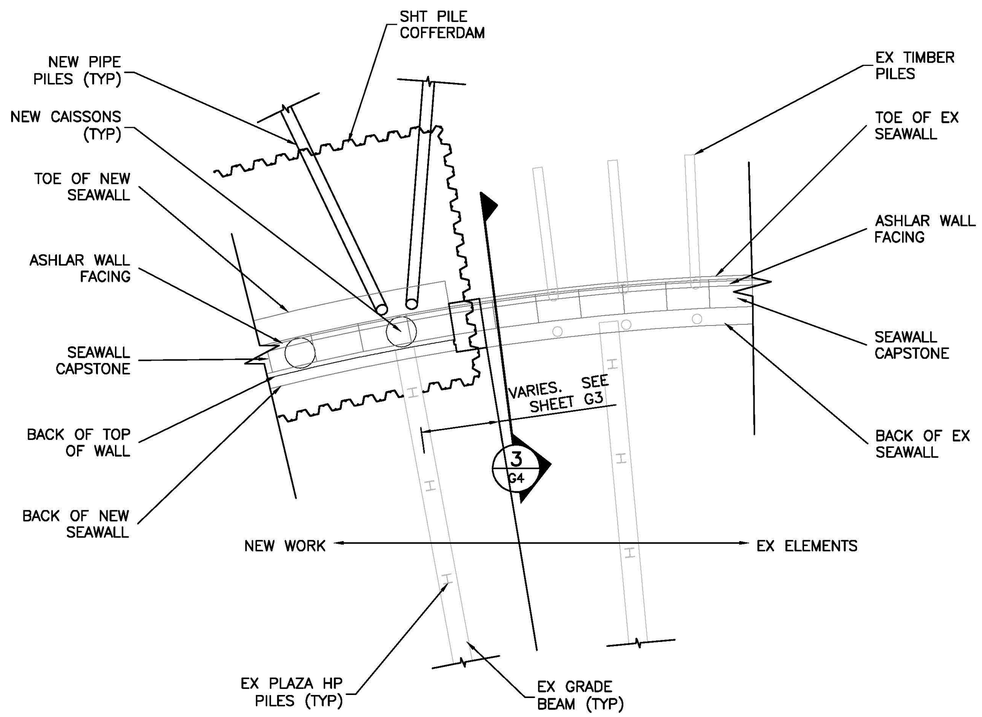
1. CLIN REPRESENTS CONTRACT LINE ITEM NUMBER.
2. REFER TO SPECIFICATION 01 27 00 FOR FULL DESCRIPTION OF CLINS.
3. LINES DEPICTING EACH CLIN ARE FOR GENERAL DELINEATION OF THE WORK ONLY AND DO NOT REPRESENT THE PRECISE LIMITS OF DISTURBANCE.
4. A SUITABLE BOND BREAKER SHALL BE USED WHERE THE REPLACEMENT SEAWALL AND PLAZA SLAB ABUTS AGAINST THE EXISTING SEAWALL AT CLIN CONSTRUCTION LIMITS. THIS WORK IS TO BE PERFORMED ONLY UPON CONTRACTUAL EXECUTION OF CLIN 02 OPTION. SEE SHEET G4 AND SPECIFICATION SECTION 01 27 00 FOR DETAILS.
5. BOND BREAKER TO BE APPROVED BY CONTRACTING OFFICER PRIOR TO USE.

REFER TO SPECIFICATION SECTION 01 27 00 FOR A LISTING OF THE BASIC CONTRACT'S CLINS AND THE OPTIONS' CLINS.

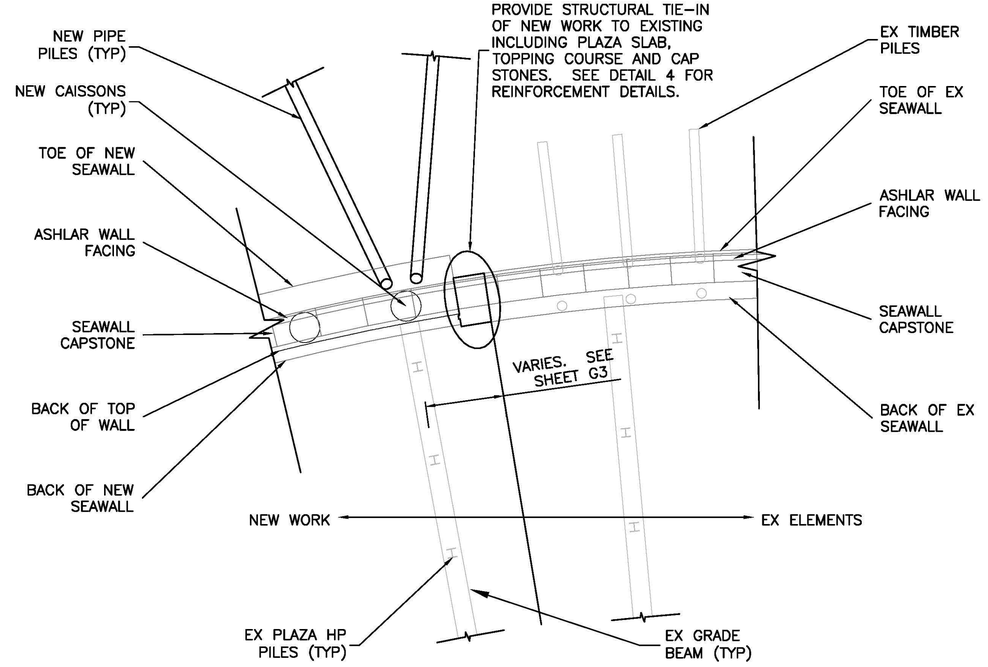
20 0 20 40
SCALE OF FEET

DESIGNED: DW, JG, HR CADD: NSF, MD TECH. REVIEW: JG, DW DATE: 6–15–09	SUB SHEET NO. G3	TITLE OF SHEET PLAN VIEW DEPICTION OF CONTRACT LINE ITEMS THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 4 OF 54

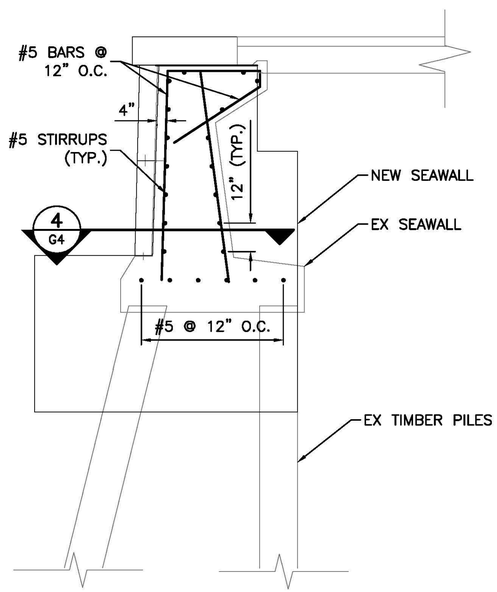
11/28/11 14:38 JMIKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\GEN\G3 LINE ITEMS.DWG XREFS: ..\BASES\XC-BEAMS.DWG; ..\BASES\XC-AXREF.DWG;



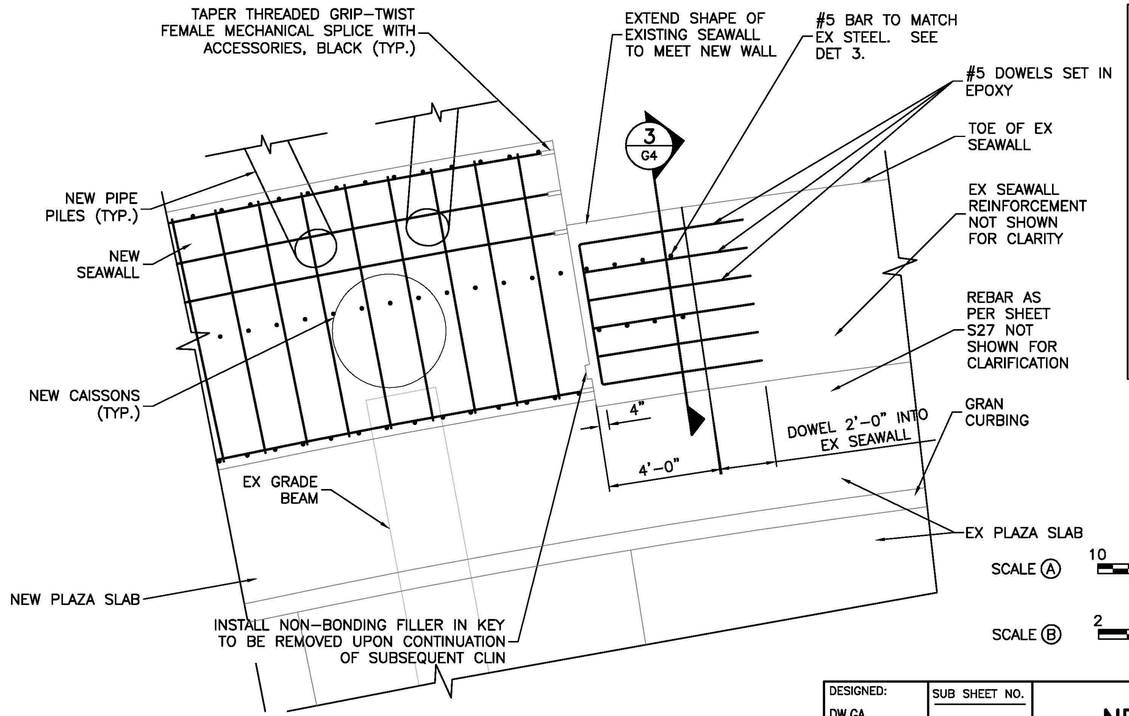
1 G4 COFFERDAM CLOSURE AT MID-WALL
SCALE (A)



2 G4 TIE-INS, NEW WORK TO EXISTING
SCALE (A)



3 G4 REINFORCING STEEL AT TIE-IN, NEW WORK TO EXISTING – SECTION VIEW
SCALE (B)



4 G4 REINFORCING STEEL AT TIE-IN, NEW WORK TO EXISTING – PLAN VIEW
SCALE (B)

NOTES:

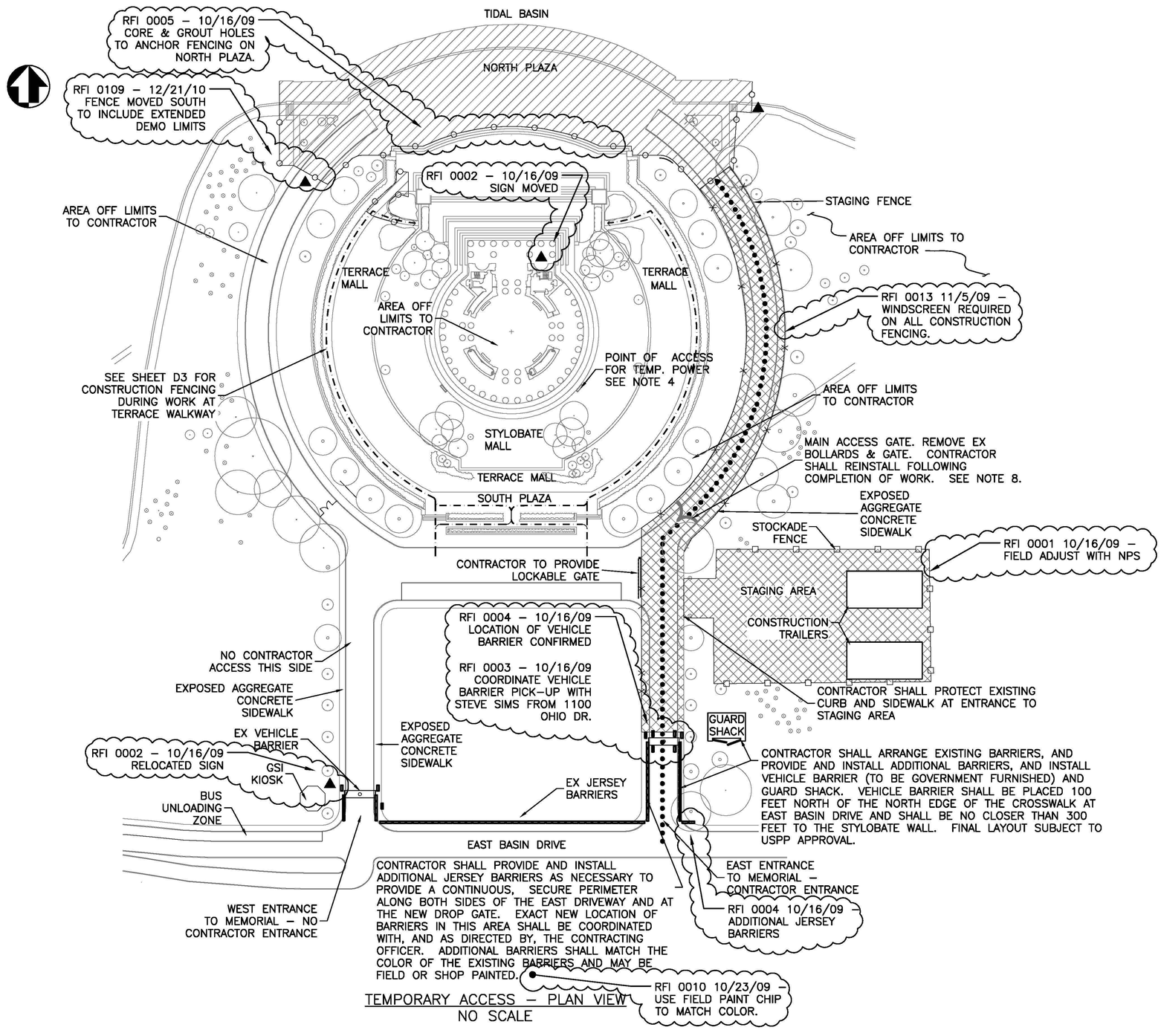
1. THE WORK DEPICTED IN DETAILS 2, 3, AND 4 ON THIS SHEET AND THE SHEET PILE COFFERDAM WORK FOR THE COFFERDAM WHICH IS SHOWN PERPENDICULAR TO THE SEAWALL IN DETAIL 1 ON THIS SHEET SHALL BE PERFORMED ONLY UPON CONTRACTUAL EXECUTION OF CLIN 02 – OPTION. REFER TO SPECIFICATION SECTION 01 27 00 FOR DETAILS.
2. CONTRACTOR TO PROVIDE, INSTALL, AND MAINTAIN ADEQUATE DEWATERING MEASURES AS NECESSARY TO PERFORM THE WORK SHOWN IN DETAILS 2, 3, AND 4 ON THIS SHEET AFTER REMOVAL OF THE SHEET PILE COFFERDAM SHOWN IN DETAIL 1 ON THIS SHEET.

SCALE (A) 10 0 10 20
SCALE OF FEET

SCALE (B) 2 0 2 4 6
SCALE OF FEET

DESIGNED: DW,GA CADD: NSF, MD TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. G4	TITLE OF SHEET: NEW WORK TO EXISTING THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 5 OF 54

11/17/11 11:28 JNIKITKA R18 G:\2009\0085\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\GEN\G4 DETAILS.DWG



TEMPORARY ACCESS – PLAN VIEW
NO SCALE

LEGEND

- STAGING FENCE
- CONSTRUCTION FENCE
- STOCKADE FENCE
- PUBLIC ACCESS
- AMERICAN RECOVERY AND REINVESTMENT ACT SIGN
- MATERIALS AND PERSONNEL PATH
- LIMITS OF CONSTRUCTION
- STAGING AREA

GENERAL NOTES

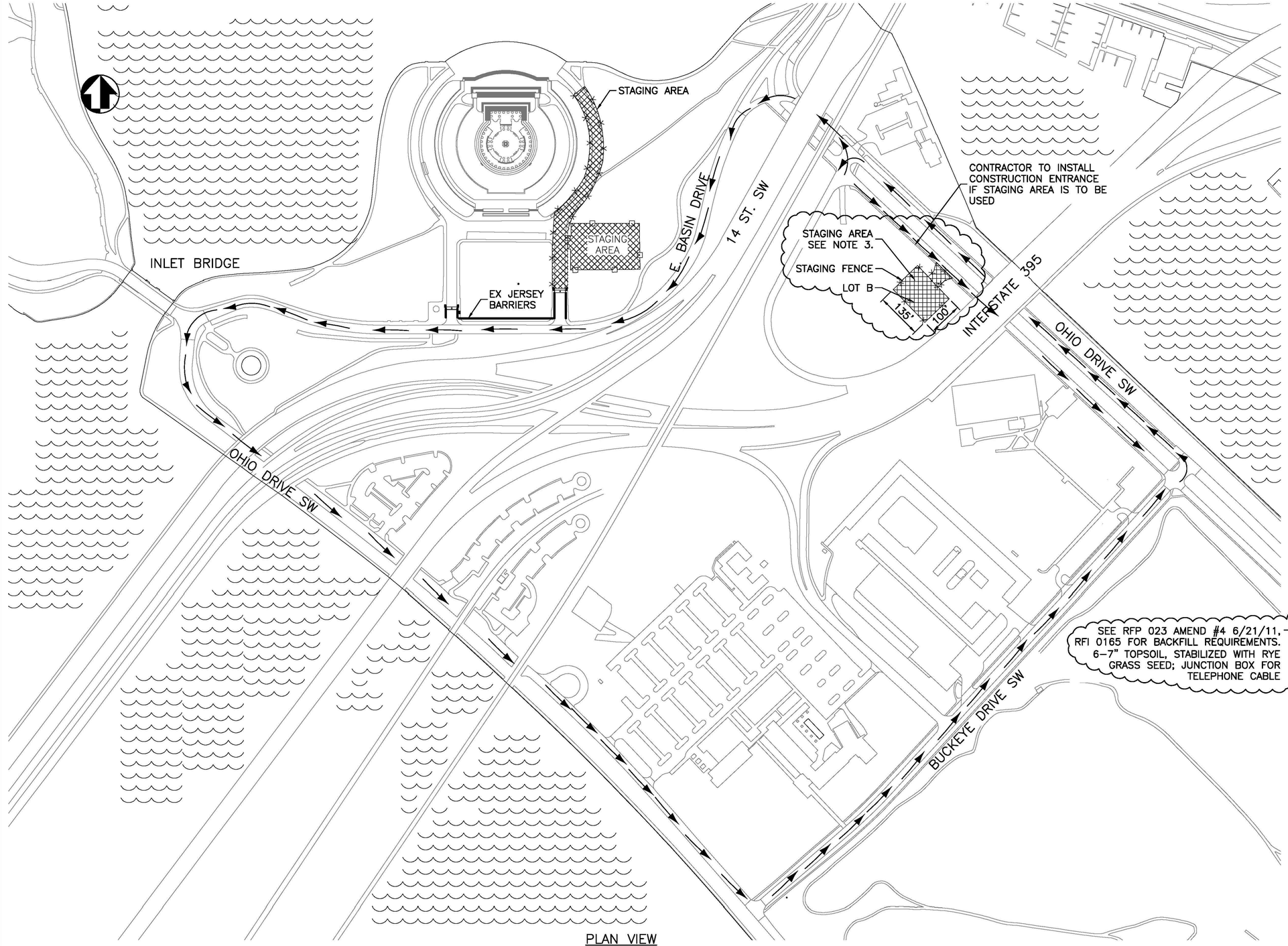
1. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS TO JEFFERSON MEMORIAL FROM THE SOUTH PLAZA AND TERRACE MALL.
2. SEE T3 FOR PEDESTRIAN TRAFFIC SIGNAGE AND FLOW.
3. SEE T4 FOR TREE PRESERVATION PLAN AND DETAILS
4. SOURCE FOR TEMPORARY POWER IS FROM THE OUTLETS ON THE PLAZA.
5. MATERIALS SHALL NOT BE STACKED HIGHER THAN 5' IN STAGING AREA.
6. VEHICLE BARRIER OPERATION AT WEST ENTRANCE IS UNDER USPP JURISDICTION.
7. FOR FENCE TYPES SEE SPECIFICATION 01 56 00.
8. THE CONTRACTOR SHALL REMOVE, PROTECT, AND STORE THE BOLLARDS AND ASSOCIATED METAL GATES AS NECESSARY, REMOVAL OF THE BOLLARDS SHALL BE BY RAISING THE CONCRETE FILLED BOLLARD VERTICALLY OUT OF ITS SLEEVE. DURING REMOVAL, THE CONTRACTOR SHALL EITHER PROTECT IN–PLACE OR REMOVE AND PROTECT THE GRANITE TRIM AROUND EACH BOLLARD. CONTRACTOR SHALL INSTALL AND MAINTAIN PROTECTION OF ANY REMAINING GRANITE TRIM AND THE REMAINING BOLLARD SLEEVE AND CAVITY FOR THE DURATION OF WORK. UPON COMPLETION OF THE WORK, CONTRACTOR SHALL REINSTALL ANY/ALL REMOVED BOLLARDS, GRANITE TRIM, AND ASSOCIATED METAL GATES IN ACCORDANCE WITH THE REFERENCED DRAWINGS, OR IF ACTUAL FIELD INSTALLATION WAS DIFFERENT THAN SHOWN ON THE REFERENCED DRAWINGS, THEN IN ACCORDANCE WITH THEIR ORIGINAL METHOD OF INSTALLATION. ANY DAMAGE TO ANY OF THESE FEATURES DURING REMOVAL, STORAGE AND REINSTALLATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE GOVERNMENT.
9. AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) SIGNS AT THE EAST AND WEST SIDES OF THE NORTH PLAZA SHALL BE OPTION ~~2.0~~ 2.B (48" x 96" SIGNS WITH TEXT, IMAGE, AND CONSULTANTS) TYPE SIGNS, FRAMED AND MOUNTED AS SPECIFIED (REFERENCE SPECIFICATIONS SECTION 01 34 00); THE ARRA SIGN IN THE STATUARY CHAMBER VISITOR CONTACT STATION SHALL BE OPTION ~~2.0~~ 3.0 (48" x 48" SIGN WITH IMAGE AND TEXT) TYPE SIGN, FRAMED AND INSTALLED ON SUPPORTS SIMILAR TO THOSE AS SPECIFIED BUT WHICH ALLOW FOR THE SIGN TO BE SAFELY FREE STANDING ON THE FLOOR OF THE MEMORIAL. MOUNTING LOCATIONS FOR THE TWO OPTION ~~2.0~~ 2.B TYPE SIGNS ARE AS SHOWN ON THIS SHEET AND ARE IN GRASS AREA. CONTRACTOR SHALL REPAIR AREAS DISTURBED BY ARRA SIGN INSTALLATION UPON REMOVAL OF ARRA SIGNS.

RFI 0002 10/16/09

NOTE:
GEOMETRY BASED ON HISTORICAL DOCUMENTS PROVIDED BY NPS. MUST BE VERIFIED IN FIELD.

DESIGNED: DW, JG, HR CADD: NSF, MD TECH. REVIEW: DW, JG DATE: 4–2–09	SUB SHEET NO. T1	TITLE OF SHEET CONTRACTOR ACCESS PLAN VIEW THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 6 OF 54

3/12/12 13:43 JNIKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\GEN\T1 TEMPORARY ACCESS.DWG



PLAN VIEW

LEGEND

- STAGING FENCE
- STOCKADE FENCE
- TRAFFIC FLOW TO AND FROM OFF SITE STAGING AREA
- STAGING AREA

NOTES

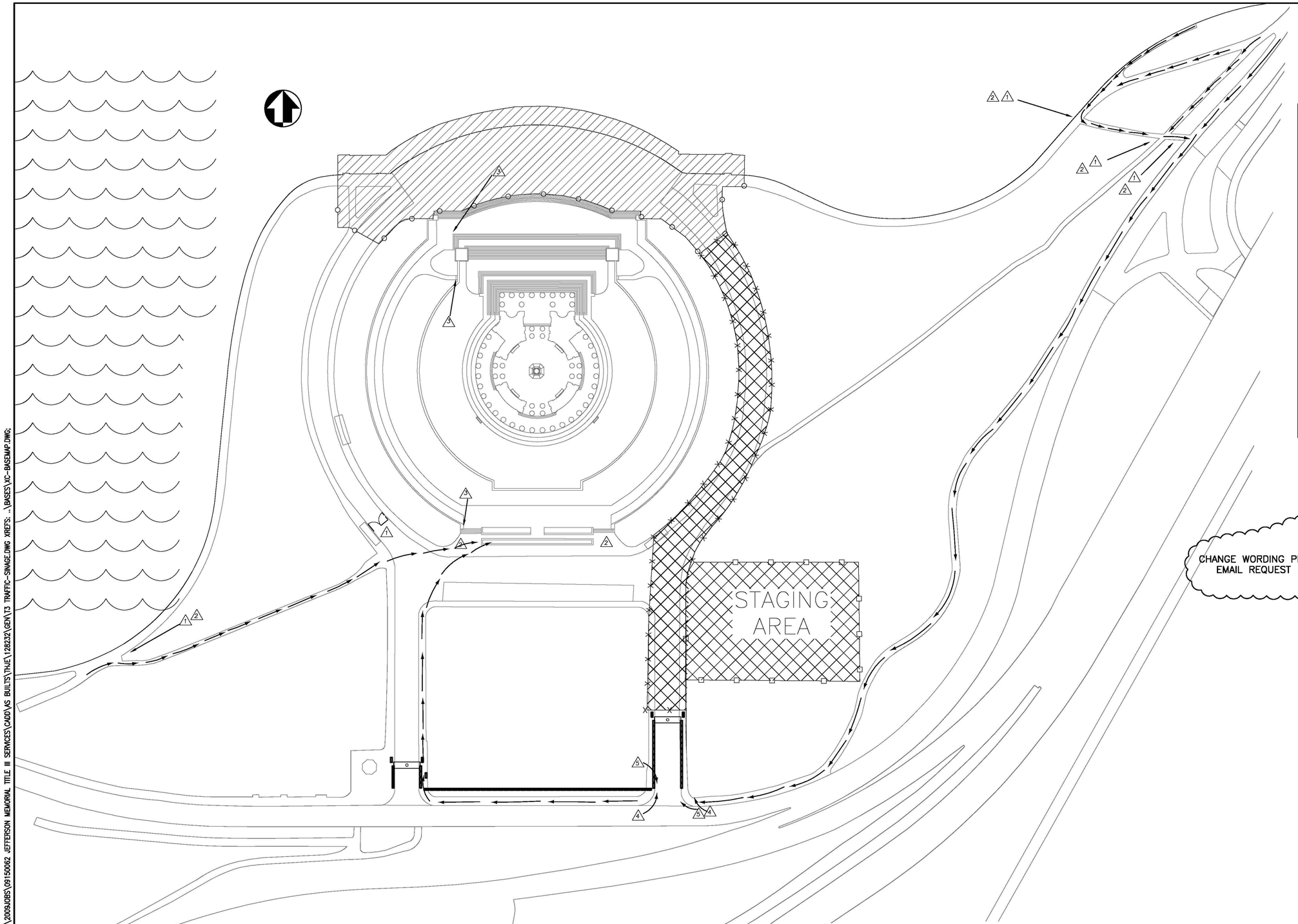
1. REFER TO SHEET T1 GENERAL NOTES.
2. USE OF THE INLET BRIDGE FOR EQUIPMENT AND MATERIAL TRANSPORTATION OR OTHER CONSTRUCTION TRAFFIC IS PROHIBITED.
3. CONTRACTOR MAY USE ADDITIONAL LOT B STAGING AREA SHOWN ON OHIO DRIVE. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIR AND MAINTENANCE OF THE AREA. THE CONTRACTOR SHALL RESTORE THE AREA (INCLUDING ANY DAMAGE TO THE SIDEWALK AND GRANITE CURB) BY REMOVING AND PROPERLY DISPOSING OF FENCING AND GRAVEL AND REPLACING IT WITH TOPSOIL TO A DEPTH OF 12" AND SOD FOR THE FULL LIMITS OF THE OFF-SITE STAGING AREA. THIS SITE RESTORATION WORK SHALL BE COMPLETED AT THE END OF THE PROJECT.
4. CONTRACTOR SHALL DETERMINE BRIDGE CLEARANCE REQUIREMENTS FOR ACCESS TO AND FROM LOT B STAGING AREA.
5. MATERIALS SHALL NOT BE STACKED HIGHER THAN 5' IN STAGING AREA.

150 0 150 300
SCALE OF FEET

NOTE:
GEOMETRY BASED ON HISTORICAL DOCUMENTS PROVIDED BY NPS. MUST BE VERIFIED IN FIELD.

DESIGNED: DW, JG, HR CADD NSF, MD TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. T2	TITLE OF SHEET STAGING AND TRAFFIC FLOW THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 7 OF 54

11/28/11 16:17 JMIKITKA R18 G:\2009\0085\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\GEN\T2 TRAFFIC-STAGING.DWG XREFS: ..\BASES\XC-BASEMAP.DWG;



PLAN VIEW

LEGEND

- STAGING FENCE
- STOCKADE FENCE
- CONSTRUCTION FENCE
- PEDESTRIAN TRAFFIC FLOW
- LIMITS OF CONSTRUCTION
- STAGING AREA

NOTES

1. REFER TO SHEET T1 GENERAL NOTES
2. PEDESTRIAN SIGNS SHALL BE PROVIDED ON POSTS WITH BASES AND SHALL BE RELOCATABLE.
3. INSTALL AND MAINTAIN, IN FIRST CLASS CONDITION, A PAINTED CROSS WALK WHERE PEDESTRIANS MUST CROSS THE CONSTRUCTION ENTRANCE.

PEDESTRIAN TRAFFIC SIGNAGE NOTES

CHANGE WORDING PER EMAIL REQUEST

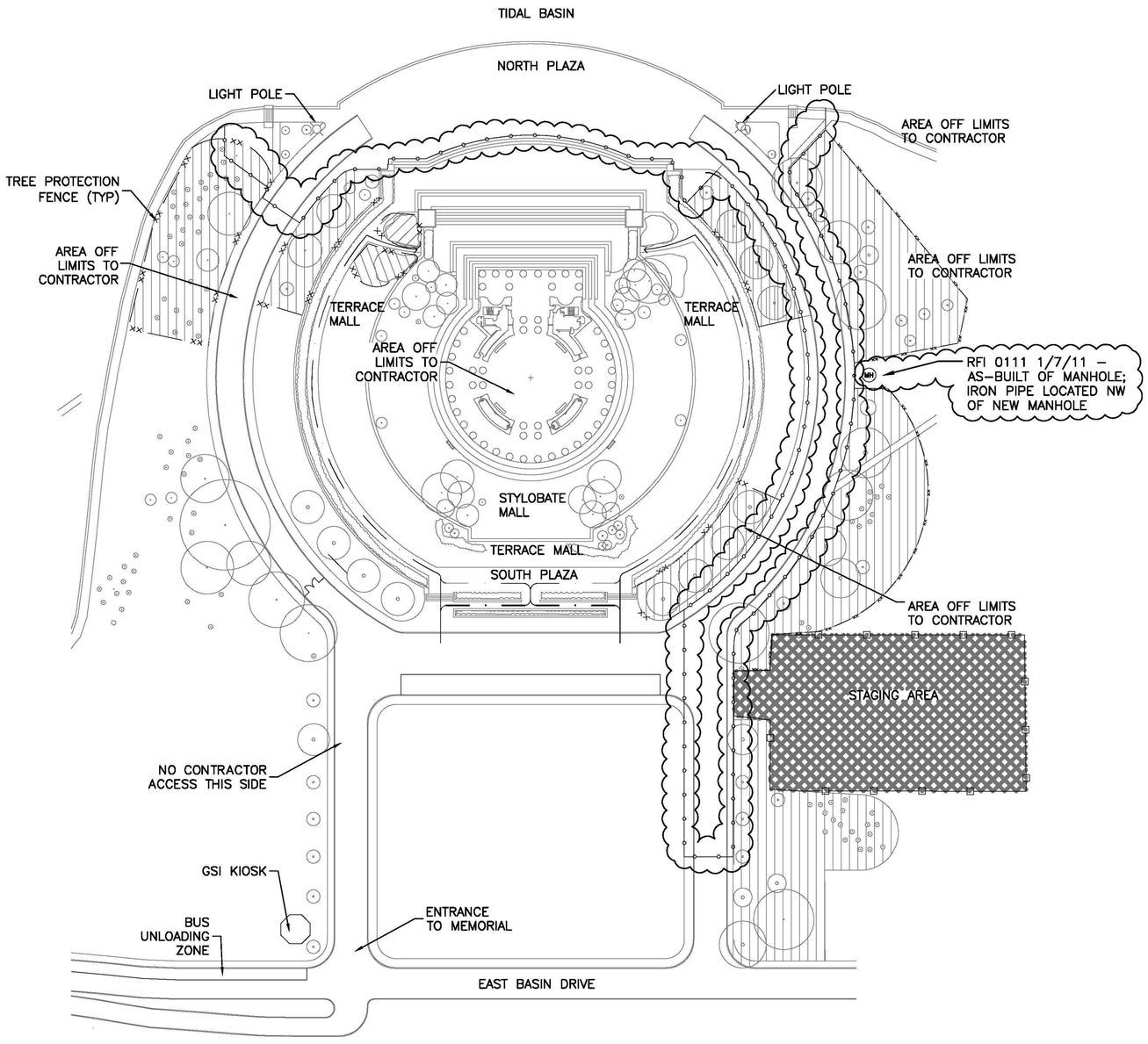
1. ~~THE JEFFERSON MEMORIAL NORTH PLAZA IS CLOSED FOR RENOVATIONS. PLEASE USE THE SOUTH PLAZA ENTRANCE.~~
2. ~~JEFFERSON MEMORIAL SOUTH PLAZA →~~
3. TERRACE WALKWAY CLOSED FOR RENOVATIONS (FOR USE ONLY DURING RENOVATIONS TO TERRACE WALKWAY. AREA TO REMAIN OPEN DURING ALL OTHER TIMES).
4. CAUTION CONSTRUCTION ENTRANCE
5. YIELD TO PEDESTRIANS

60 0 60 120
SCALE OF FEET

NOTE:
GEOMETRY BASED ON HISTORICAL DOCUMENTS PROVIDED BY NPS. MUST BE VERIFIED IN FIELD.

DESIGNED: DW, JG, HR CADD: NSF, MD TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. T3	TITLE OF SHEET: PEDESTRIAN TRAFFIC SIGNAGE AND FLOW THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 8 OF 54

3/12/12 13:48 JMIKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\GEN\T3 TRAFFIC-SINAGE.DWG XREFS: ..\BASES\XC-BASEMAP.DWG;



TREE PROTECTION– PLAN VIEW

RFI 0007 11/5/09 – FENCE COORDINATION

LEGEND

- STOCKADE FENCE
- xx TREE PROTECTION FENCE
- ROOT PROTECTION
- CONSTRUCTION FENCE

NOTES

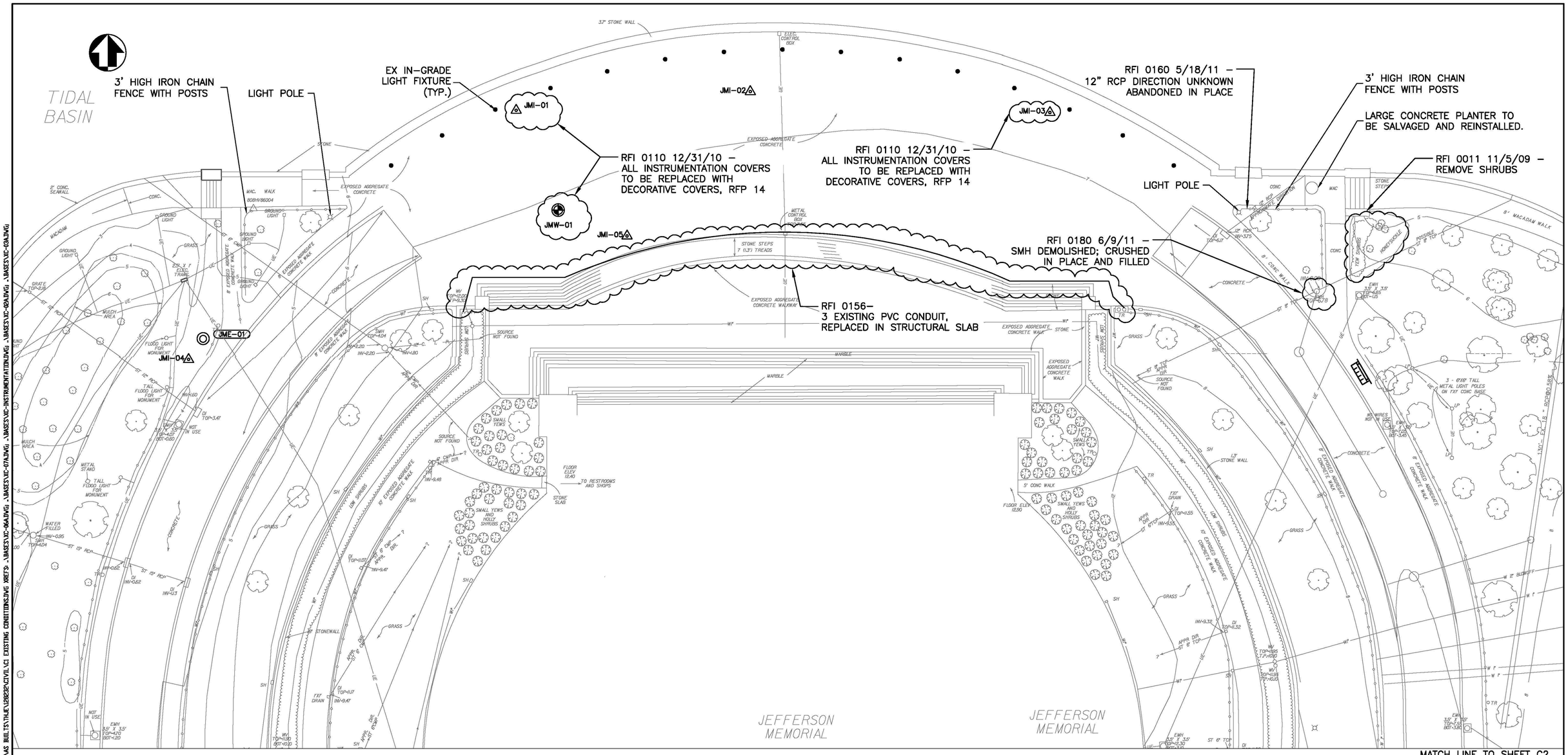
1. REFER TO SHEET T1 GENERAL NOTES.
2. TREES SHALL BE PROTECTED BY 4 FT HIGH FENCING, BARRICADES, OR WRAPPING AND APPROVED BY THE CONTRACTING OFFICER.
3. SHRUBS AND BUSHES SHALL BE PROTECTED BY FENCES.
4. SHALLOW ROOTED PLANTS SHALL BE PROTECTED AT GROUND SURFACE UNDER AND, IN SOME CASES, OUTSIDE THE SPREAD OF BRANCHES BY FENCES BARRICADES OR GROUND COVER PROTECTION AND APPROVED BY THE CONTRACTING OFFICER.
5. IN AREAS WHERE VEHICLES WILL BE DRIVEN OUTSIDE OF PAVED AREAS AND WITHIN THE ROOT ZONE OF TREES, AN APPROPRIATE MAT MATERIAL, SUCH AS RHINO MAT, SHALL BE INSTALLED.
6. BARRICADES AND CONSTRUCTION FENCING NOT SHOWN FOR CLARITY.

60 0 60 120
SCALE OF FEET

NOTE:
GEOMETRY BASED ON HISTORICAL DOCUMENTS PROVIDED BY NPS. MUST BE VERIFIED IN FIELD.

DESIGNED: DW, JG, HR	SUB SHEET NO. T4	TITLE OF SHEET: TREE PROTECTION PLAN VIEW THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A
CADD: NSF, MD			PMIS/PKG NO. 128232
TECH. REVIEW: DW, JG			SHEET 9 OF 54
DATE: 6–15–09			

11/28/11 16:34 JMIKITKA R18 G:\2009\OBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\GEN\T4 TREE PRESERVATION.DWG



PLAN VIEW

NOTES:

1. THE LOCATIONS OF UNDERGROUND UTILITIES WERE DERIVED FROM OBSERVABLE EVIDENCE AND AVAILABLE DATA FROM EXISTING PLANS.
2. CONTRACTOR SHALL CALL MISS UTILITY AND VERIFY LOCATION OF UTILITIES PRIOR TO WORK.
3. ALL ELEVATIONS SHOWN ARE BASED ON MEAN SEA LEVEL DATUM OF 1929 – NVGD 1929; NVGD 1929 DATUM IS APPROXIMATELY 1.36 FEET LOWER THAN HISTORICAL DATUM.
4. EXISTING TOPOGRAPHIC SURVEY INFORMATION BASED ON HISTORICAL DOCUMENTS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ALIGNMENTS IMPACTING EXECUTION OF WORK PRIOR TO COMMENCEMENT OF DEMOLITION.
5. CONTRACTOR SHALL PROTECT, MAINTAIN AND PROVIDE ACCESS TO EXISTING INSTRUMENTATION.
6. DRAINAGE GRATES EXIST ALONG THE RING ROADS, SET IN THE GRANITE CURBING, AT APPROXIMATELY 20' TO 30' INTERVALS. ACTUAL LOCATIONS VARY. CONTRACTOR SHALL INSTALL PROTECTION OVER GRATES IN STAGING AND CONSTRUCTON AREAS.

LEGEND

JMI-01△	INCLINOMETER AND VIBRATING WIRE PIEZOMETERS (2006 & 2008)
⊕ JMW-01	STAND PIPE PIEZOMETERS (2006)
JME-01 ◎	EXTENSOMETER (2008)

20 0 20 40
SCALE OF FEET

NOTE:
GEOMETRY BASED ON SURVEY DATA BY DEWBERRY & DAVIS AND GREENHORNE & O'MARA, INC. DWG. 808/80281 DATED JULY 1991, APRIL 1992, AND MARCH 1993.

DESIGNED:
DW, JG, HR
CADD
NSF, MD
TECH. REVIEW:
DW, JG
DATE:
6-15-09

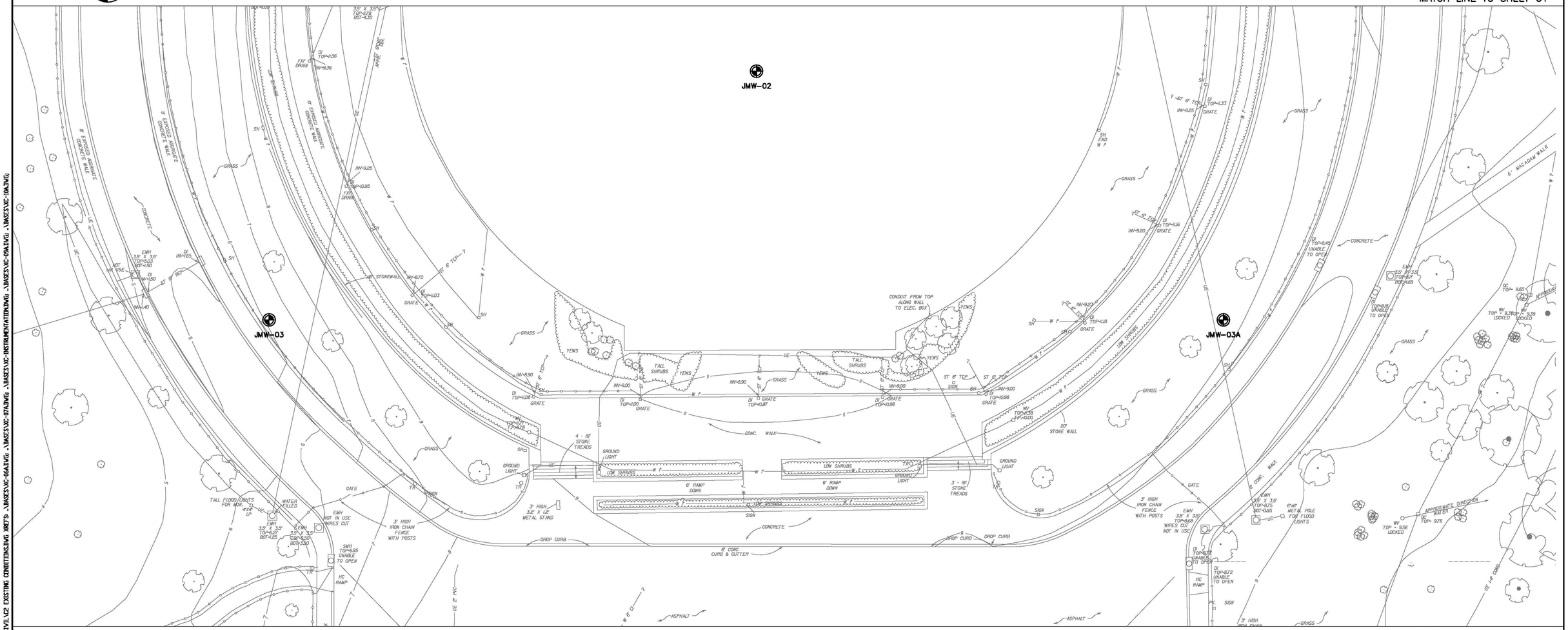
SUB SHEET NO.
C1

TITLE OF SHEET
EXISTING CONDITIONS
PLAN VIEW

THOMAS JEFFERSON MEMORIAL
NATIONAL MALL AND MEMORIAL PARKS

DRAWING NO.
808
25005A
PMIS/PKG NO.
128232
SHEET
10 OF 54

11/2/11 09:48 JMIKITKA R18 G:\2009_JOBS\0950062 JEFFERSON MEMORIAL TITLE III SERVICES\CAD\AS BUILTS\HE\28232\CIVIL\C1 EXISTING CONDITIONS.DWG XREFS: ..\BASES\XC-06A.DWG, ..\BASES\XC-07A.DWG, ..\BASES\XC-INSTRUMENTATION.DWG, ..\BASES\XC-02A.DWG, ..\BASES\XC-03A.DWG



PLAN VIEW

NOTES:

1. THE LOCATIONS OF UNDERGROUND UTILITIES WERE DERIVED FROM OBSERVABLE EVIDENCE AND AVAILABLE DATA FROM EXISTING PLANS.
2. CONTRACTOR SHALL CALL MISS UTILITY AND VERIFY LOCATION OF UTILITIES PRIOR TO WORK.
3. ALL ELEVATIONS SHOWN ARE BASED ON MEAN SEA LEVEL DATUM OF 1929 – NVGD 1929; NVGD 1929 DATUM IS APPROXIMATELY 1.36 FEET LOWER THAN HISTORICAL DATUM.
4. EXISTING TOPOGRAPHIC SURVEY INFORMATION BASED ON HISTORICAL DOCUMENTS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ALIGNMENTS IMPACTING EXECUTION OF WORK PRIOR TO COMMENCEMENT OF DEMOLITION.
5. CONTRACTOR SHALL PROTECT, MAINTAIN AND PROVIDE ACCESS TO EXISTING INSTRUMENTATION.
6. DRAINAGE GRATES EXIST ALONG THE RING ROADS, SET IN THE GRANITE CURBING, AT APPROXIMATELY 20' TO 30' INTERVALS. ACTUAL LOCATIONS VARY. CONTRACTOR SHALL INSTALL PROTECTION OVER GRATES IN STAGING AND CONSTRUCTON AREAS.

LEGEND

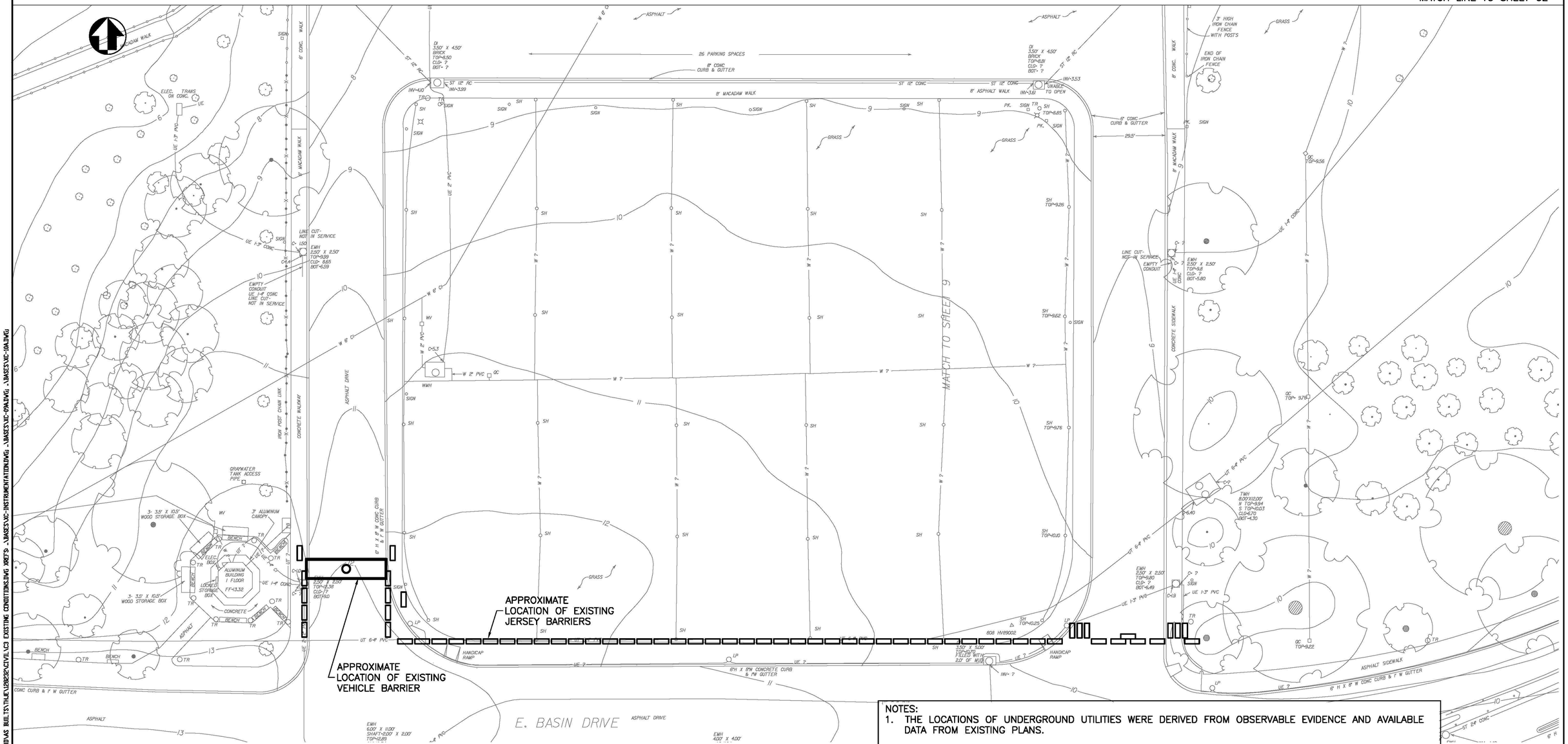
JMI-01 △	INCLINOMETER AND VIBRATING WIRE PIEZOMETERS (2006 & 2008)
⊕ JMW-01	STAND PIPE PIEZOMETERS (2006)
JME-01 ◎	EXTENSOMETER (2008)

20 0 20 40
SCALE OF FEET

NOTE:
GEOMETRY BASED ON SURVEY DATA BY DEWBERRY & DAVIS AND GREENHORNE & O'MARA, INC. DWG. 808/80281 DATED JULY 1991, APRIL 1992, AND MARCH 1993.

DESIGNED: DW, JG, HR CADD NSF, MD TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. C2	TITLE OF SHEET EXISTING CONDITIONS PLAN VIEW (CON'T) THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 11 OF 54

11/2/11 09:49 JMIKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\CIVIL\C2 EXISTING CONDITIONS.DWG XREFS: ..\BASES\XC-06A.DWG; ..\BASES\XC-07A.DWG; ..\BASES\XC-INSTRUMENTATION.DWG; ..\BASES\XC-09A.DWG; ..\BASES\XC-10A.DWG;



PLAN VIEW

NOTES:
1. THE LOCATIONS OF UNDERGROUND UTILITIES WERE DERIVED FROM OBSERVABLE EVIDENCE AND AVAILABLE DATA FROM EXISTING PLANS.
2. CONTRACTOR SHALL CALL MISS UTILITY AND VERIFY LOCATION OF UTILITIES PRIOR TO WORK.
3. ALL ELEVATIONS SHOWN ARE BASED ON MEAN SEA LEVEL DATUM OF 1929 – NVGD 1929; NVGD 1929 DATUM IS APPROXIMATELY 1.36 FEET LOWER THAN HISTORICAL DATUM.
4. EXISTING TOPOGRAPHIC SURVEY INFORMATION BASED ON HISTORICAL DOCUMENTS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ALIGNMENTS IMPACTING EXECUTION OF WORK PRIOR TO COMMENCEMENT OF DEMOLITION.
5. CONTRACTOR SHALL PROTECT, MAINTAIN AND PROVIDE ACCESS TO EXISTING INSTRUMENTATION.
6. VEHICLE BARRIER OPERATION AT WEST ENTRANCE IS UNDER UNITED STATES PARK POLICE JURISDICTION.
7. REFER TO SHEET E2 FOR CONSTRUCTION ENTRANCE ELECTRICAL PLAN.

LEGEND

JMI-01 — INCLINOMETER AND VIBRATING WIRE PIEZOMETERS (2006 & 2008)

JMW-01 — STAND PIPE PIEZOMETERS (2006)

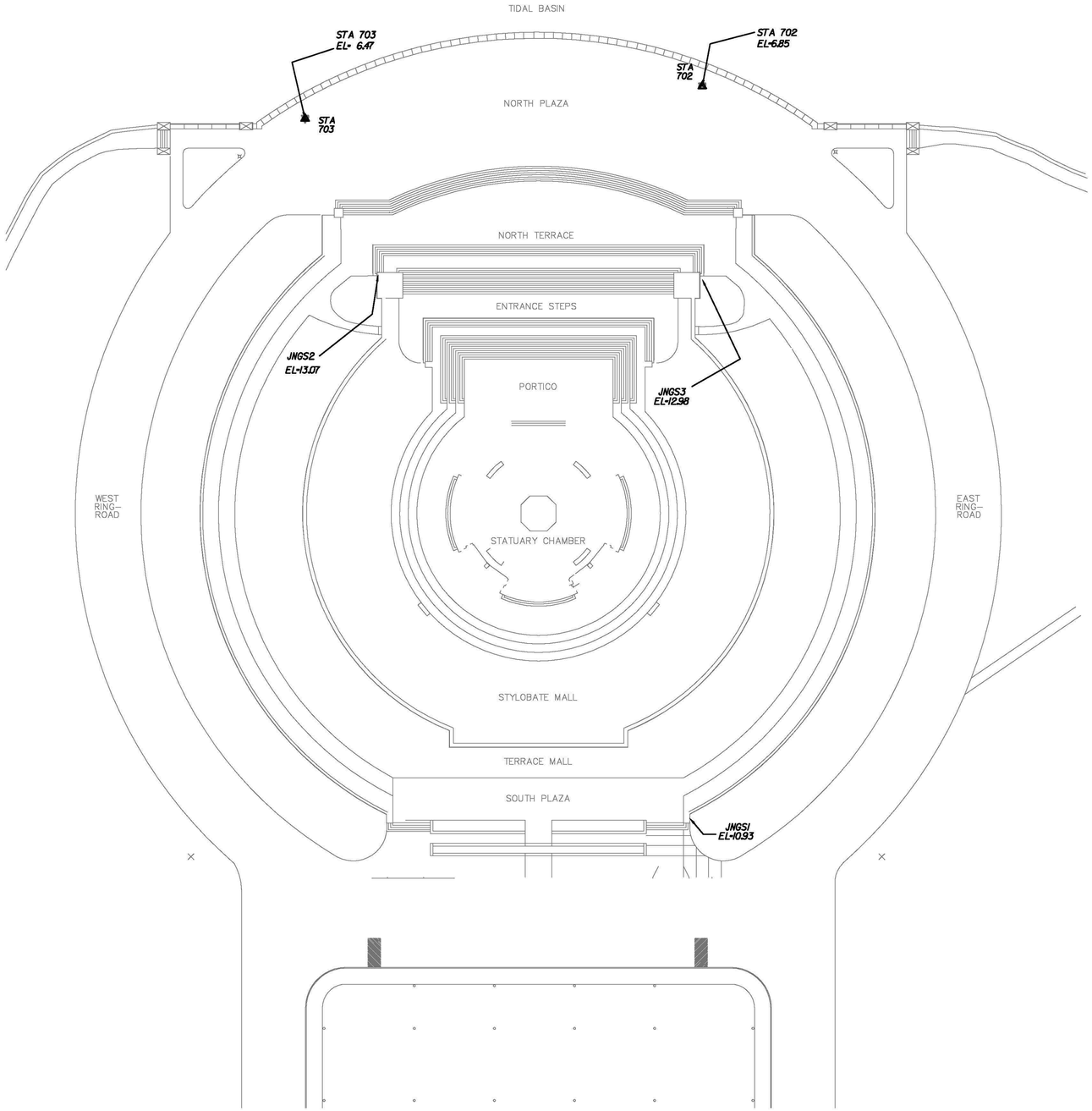
JME-01 — EXTENSOMETER (2008)

20 0 20 40
SCALE OF FEET

NOTE:
GEOMETRY BASED ON SURVEY DATA BY DEWBERRY & DAVIS AND GREENHORNE & O'MARA, INC. DWG. 808/80281 DATED JULY 1991, APRIL 1992, AND MARCH 1993.

DESIGNED: DW, JG, HR	SUB SHEET NO. C3	TITLE OF SHEET: EXISTING CONDITIONS PLAN VIEW (CON'T)	DRAWING NO. 808 25005A
CADD: NSF, MD		THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	PMIS/PKG NO. 128232
TECH. REVIEW: DW, JG			SHEET 12 OF 54
DATE: 6-15-09			

11/2/11 1949 JMKITKA R18 G:\2005JOBS\05950062_JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\HJE\128232\CIVIL\C3 EXISTING CONDITIONS.DWG XREFS ..\BASES\XC-INSTRUMENTATION.DWG, ..\BASES\XC-10A.DWG



NORTH PLAZA

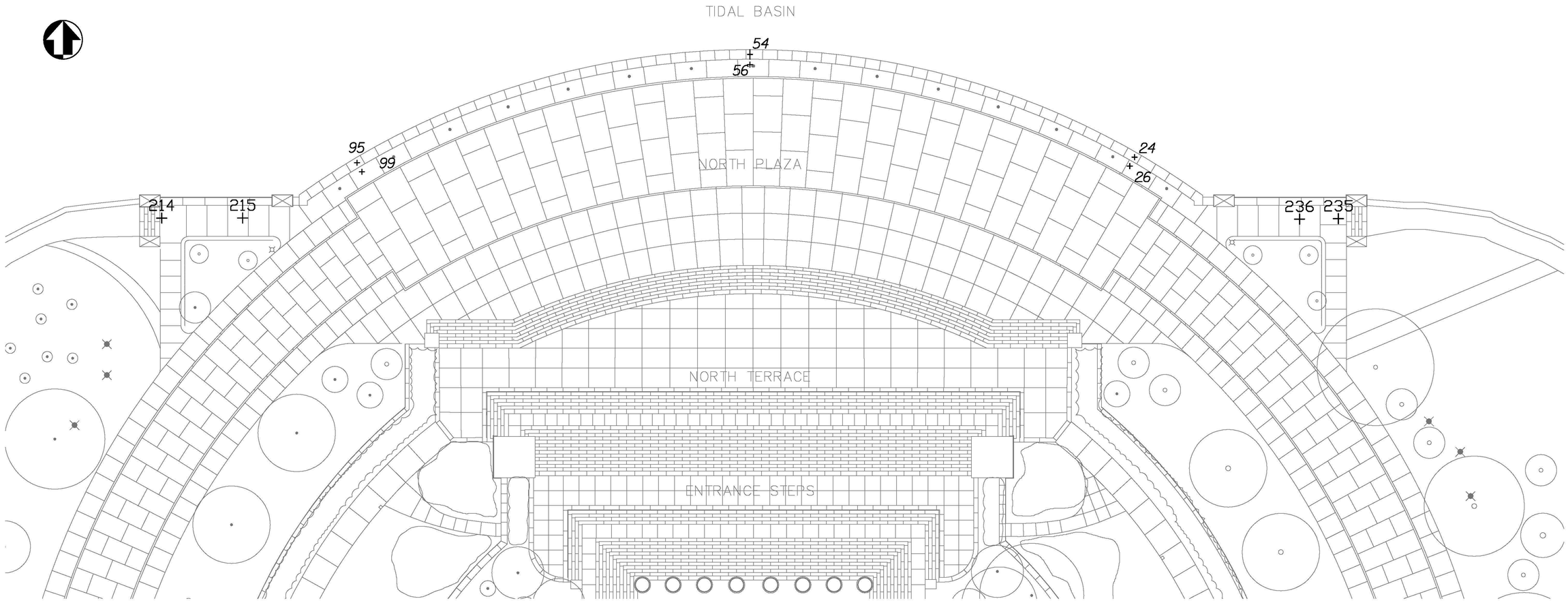
NOTES

1. A MAIN VERTICAL CONTROL LOOP AND VERTICAL QUARTER MONITORING LOOPS WERE BASED ON BENCHMARK INFORMATION PROVIDED BY THE NATIONAL PARK SERVICE. THE VERTICAL DATUM IS THE NATIONAL PARK SERVICE MSL 1929 DATUM. THE ELEVATIONS SHOWN HEREIN ARE BASED ON THE ELEVATION OF 10.57 FEET GIVEN FOR NATIONAL PARK SERVICE BENCHMARK 809HV830P1, DATED JULY 1983. THE BENCHMARK IS A NPS ALUMINUM CAP IN CONCRETE, FLUSH WITH THE GROUND, LOCATED NE OF THE WASHINGTON MONUMENT BETWEEN 14TH STREET, 15TH STREET, MADISON DRIVE AND CONSTITUTION AVE. SEE SPECIFICATION 02 21 13.
2. STATION 702 AND STATION 703 ARE SCRIBES CUT IN THE CENTER OF A GRANITE CURB.
3. JNGS1, JNGS2 AND JNGS3 ARE STAINLESS STEEL PLUGS SCREWED INTO A PIPE THAT IS FLUSH WITH THE VERTICAL WALL. FOR PRECISE LEVELING, THE PLUG IS UNSCREWED AND A SPECIAL STAINLESS STEEL BOLT IS INSERTED IN THE PIPE FOR THE REFERENCE POINT. THE SPECIAL STAINLESS STEEL BOLT CAN BE OBTAINED FROM THE NATIONAL PARK SERVICE.
4. CONTRACTOR SHALL PROTECT, MAINTAIN AND PROVIDE ACCESS TO EXISTING SURVEY BENCHMARKS.

40 0 40 80
SCALE OF FEET

DESIGNED: DW,JG, HR CADD NSF TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. C4	TITLE OF SHEET CONTROL AND SURVEY THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 13 OF 54

11/2/11 09:52 JMIKITKA R18 G:\2009JOBS\09150862 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\CIVIL\C4 SURVEY.DWG XREFS: ..\BASES\XC-AXREF.DWG;



NORTH PLAZA

NOTES

1. ELEVATIONS PROVIDED ARE FOR REFERENCE ONLY AND ARE NOT TO BE USED BY CONTRACTOR AS SITE SURVEY REQUIREMENTS.
2. CONTRACTOR SHALL, AT A MINIMUM, PROVIDE TO THE CONTRACTING OFFICER ELEVATIONS AT THE POINTS SHOWN ON THIS DRAWING AS PART OF THE PRE AND POST SURVEY IN ACCORDANCE WITH SPECIFICATIONS 02 21 13 AND 02 21 15.

PLAZA ELEVATIONS (FEET)		
POINT NUMBER	12/8/2008	4/4/2009
214	5.210	–
215	5.580	–
95	5.533	5.525
99	6.133	6.129
54	6.015	6.010
56	6.387	6.383
24	6.420	6.413
26	6.540	6.536
236	6.280	–
235	6.330	–

20 0 20 40
SCALE OF FEET

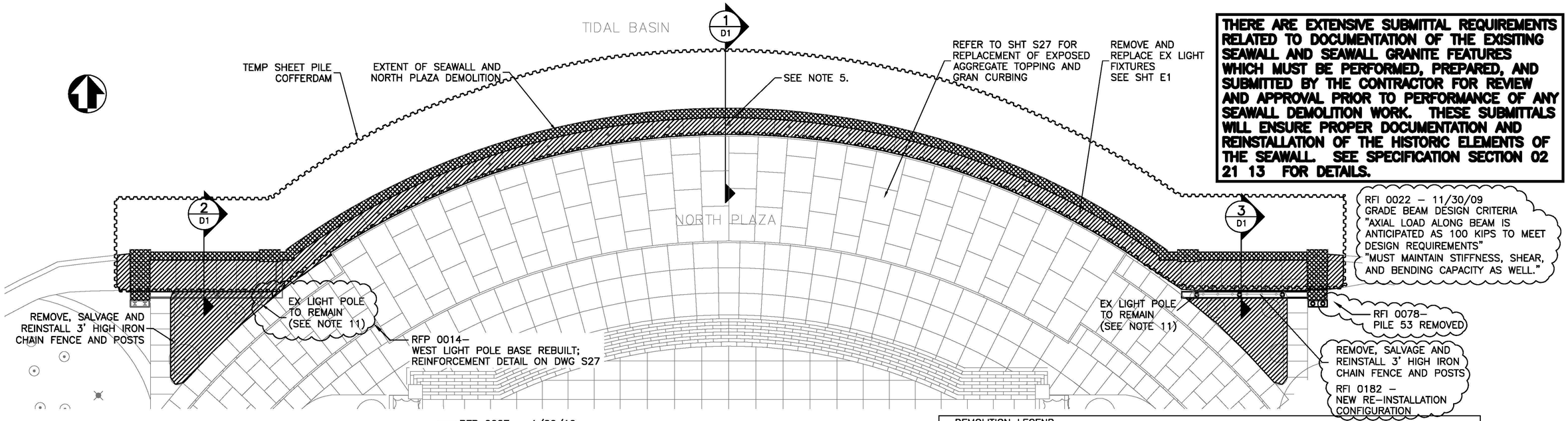
DESIGNED: DW, JG, HR
CADD: NSF, MD
TECH. REVIEW: DW, JG
DATE: 6-15-09

SUB SHEET NO. C5

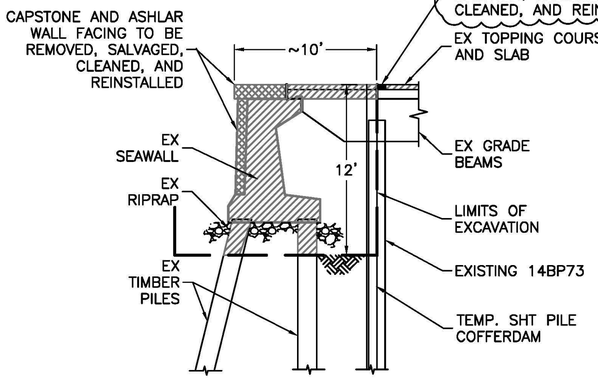
TITLE OF SHEET
NORTH PLAZA
ELEVATIONS
PLAN VIEW
THOMAS JEFFERSON MEMORIAL
NATIONAL MALL AND MEMORIAL PARKS

DRAWING NO. 808 25005A
PMIS/PKG NO. 128232
SHEET 14 OF 54

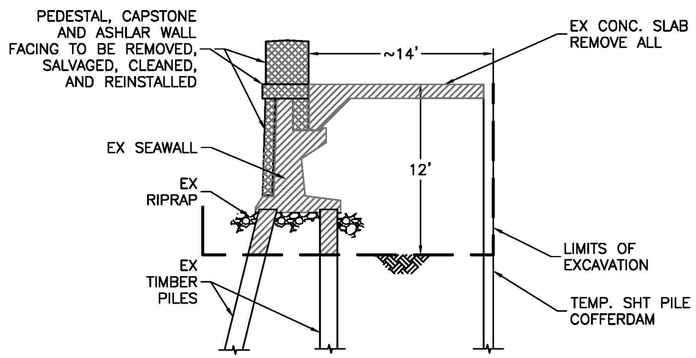
11/2/11 09:54 JMARTIKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\DWL\C5 PLAZA PLAN.DWG XREFS: ..\BASES\XC-XREF.DWG;

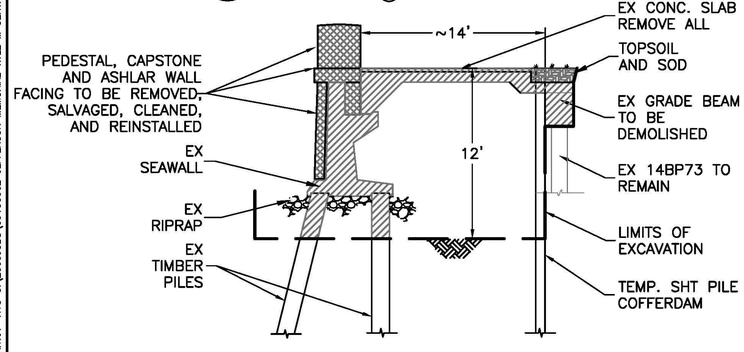


NORTH PLAZA
SCALE (A)



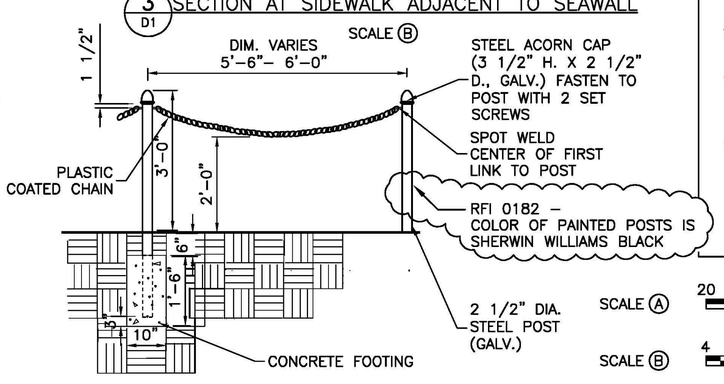
1 D1 DEMOLITION SECTION VIEW
SCALE (B)





2 D1 SECTION AT SIDEWALK ADJACENT TO SEAWALL
SCALE (B)

3 D1 SECTION AT SIDEWALK ADJACENT TO SEAWALL
SCALE (B)



4 D1 POST AND CHAIN BARRIER
NO SCALE

DEMOLITION LEGEND:

EXTENT OF DEMOLITION

REMOVED, SALVAGED, CLEANED, AND REINSTALLED

NOTES

1. FOR FENCE TYPE, LOCATION, AREA OFF LIMITS TO CONTRACTOR AND AREA OF REQUIRED PROTECTION SEE SHEET T1.
2. SEAWALL, PLAZA SLAB AND TOPPING COURSE SHALL BE REMOVED AND DISPOSED OF OFF–SITE. REFER TO S27 FOR EXTENT OF PLAZA SLAB DEMOLITION.
3. LIMITED AREAS OF THE RING ROAD AND PLAZA HAVE BEEN PATCHED OR REPLACED W/ASPHALT PAVING.
4. EXISTING RIPRAP MAY BE REUSED AT TOE OF NEW SEAWALL, IF SALVAGEABLE AND APPROVED BY THE CONTRACTING OFFICER. SEE SHEETS S5, S6, & S12 THROUGH S16.
5. CONTRACTOR TO REMOVE EXISTING CONDUIT BACK TO CONVENIENT INTERFACE POINT AND POWER SERVICE BACK TO EXISTING UTILITY BOX.
6. CONTRACTOR SHALL REMOVE CROSS SECTION OF REMOVED TIMBER PILE AND PROVIDE TO CONTRACTING OFFICER FOR DENDROCHRONOLOGICAL STUDY.
7. CONTRACTOR SHALL PROVIDE BUOY SYSTEM IN TIDAL BASIN AROUND WORK IN ACCORDANCE WITH SPECIFICATION 01 56 00.
8. ANY ITEMS/OBJECTS FOUND THROUGH THE DEWATERING PROCESS AND/OR EXCAVATION ARE THE PROPERTY OF THE NPS.
9. ACTUAL EXTENT OF WORK WILL BE DEPENDENT ON WHICH CLINs HAVE BEEN AWARDED. SEE SHT G3.
10. CONTRACTOR SHALL REMOVE EXISTING PINE TREES WITHIN THE TRIANGULAR AREA ADJACENT TO THE RING ROAD AND SIDEWALK BEHIND THE SEAWALL AND INSTALL SIX NEW TREES AT THE END OF CONTRACT. SEE S20 FOR PLANTING PLAN.
11. CONTRACTOR SHALL MAINTAIN AND PROTECT EXISTING LIGHT POLES AND CONDUITS. THE CONTRACTOR MAY REMOVE THE LIGHT POLES AND CONDUITS AND REINSTALL AT END OF CONTRACT, IF COMPARABLE LIGHTING AND NPS AND USPP CCTV CAMERAS ARE INSTALLED. IN EITHER CASE CONTRACTOR SHALL NOT OBSTRUCT, WITH EQUIPMENT OR OTHERWISE, THE LIGHTING AND CCTVs. LIGHT POLES AND CONDUIT CONFIGURATION AND LAYOUT SHALL BE REINSTALLED TO MATCH EXISTING CONDITIONS.

SCALE (A) 20 0 20 40 SCALE OF FEET

SCALE (B) 4 0 4 8 12 SCALE OF FEET

NOTE:
GEOMETRY BASED ON HISTORICAL DOCUMENTS PROVIDED BY NPS. MUST BE VERIFIED IN FIELD.

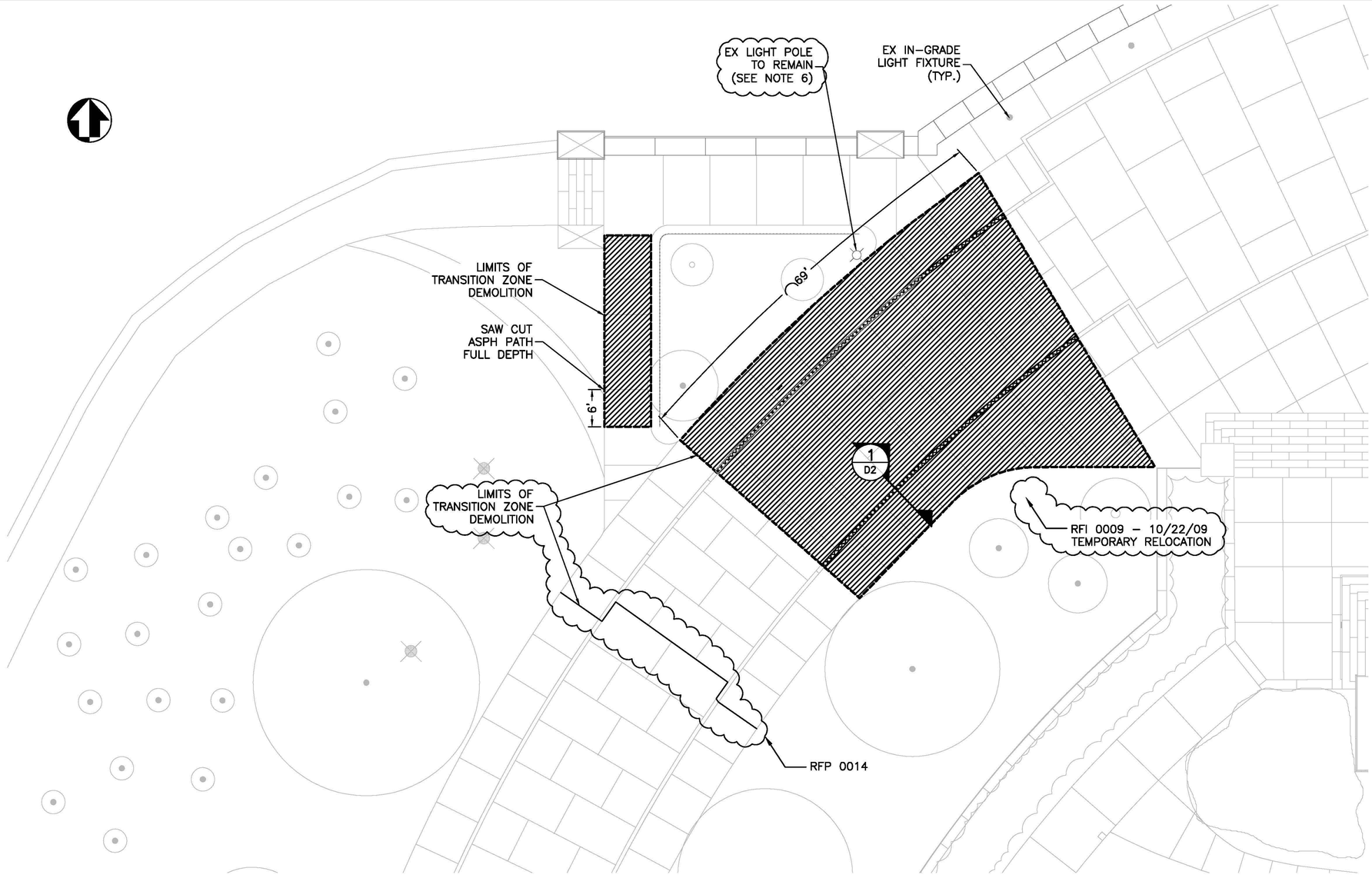
DESIGNED:	DW, JG, HR
CADD	NSF, MD
TECH. REVIEW:	DW, JG
DATE:	6–15–09

SUB SHEET NO. D1

TITLE OF SHEET
SEAWALL AND PLAZA DEMOLITION PLAN VIEW
THOMAS JEFFERSON MEMORIAL
NATIONAL MALL AND MEMORIAL PARKS

DRAWING NO. 808 25005A
PMIS/PKG NO. 128232
SHEET 15 OF 54

11/2/11 11:16 JMIKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\CIVIL\D1 DEMO.DWG XREFS: ..\BASES\XC-BEAMS.DWG; ..\BASES\XC-AXREF.DWG;



WEST TRANSITION DEMOLITION

DEMOLITION LEGEND:

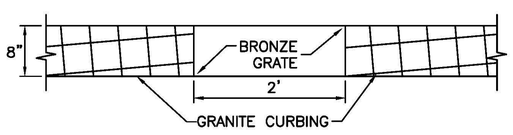
EXTENT OF DEMOLITION

REMOVED, SALVAGED, CLEANED, AND REINSTALLED

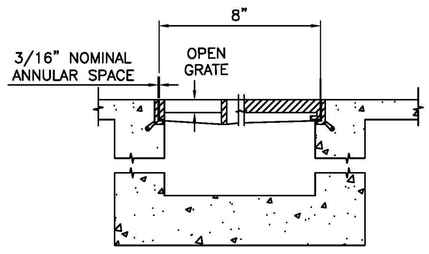
NOTES

1. FOR FENCE TYPE, LOCATION, AREA OFF LIMITS TO CONTRACTOR AND AREA OF REQUIRED PROTECTION SEE SHEET T1.
2. SEAWALL, PLAZA SLAB AND TOPPING COURSE SHALL BE REMOVED AND DISPOSED OF OFF-SITE.
3. LIMITED AREAS OF THE RING ROAD AND PLAZA HAVE BEEN PATCHED OR REPLACED W/ASPHALT PAVING.
4. DRAINAGE GRATES EXIST ALONG THE RING ROAD, SET IN GRANITE CURBING, AT AN APPROXIMATE 25' INTERVAL. APPROXIMATELY 3 EXIST WITHIN THE TRANSITION ZONE. ACTUAL LOCATIONS VARY.
5. CONTRACTOR SHALL REMOVE EXISTING PINE TREES WITHIN THE TRIANGULAR AREA ADJACENT TO THE RING ROAD AND SIDEWALK BEHIND THE SEAWALL AND INSTALL SIX NEW TREES AT THE END OF CONTRACT. SEE S20 FOR PLANTING PLAN.
6. CONTRACTOR SHALL MAINTAIN AND PROTECT EXISTING LIGHT POLES AND CONDUITS. THE CONTRACTOR MAY REMOVE THE LIGHT POLES AND CONDUITS AND REINSTALL AT END OF CONTRACT, IF COMPARABLE LIGHTING AND NPS AND USPP CCTV CAMERAS ARE INSTALLED. IN EITHER CASE CONTRACTOR SHALL NOT OBSTRUCT, WITH EQUIPMENT OR OTHERWISE, THE LIGHTING AND CCTVs. LIGHT POLES AND CONDUIT CONFIGURATION AND LAYOUT SHALL BE REINSTALLED TO MATCH EXISTING CONDITIONS.

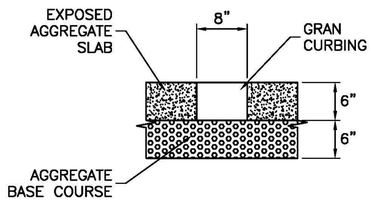
RFP 0014-
WEST LIGHT POLE BASE REBUILT. REINFORCEMENT DETAIL ON SWG S27.



EXISTING DRAINAGE GRATE – PLAN VIEW
NO SCALE



EXISTING DRAINAGE GRATE – SECTION VIEW
NO SCALE



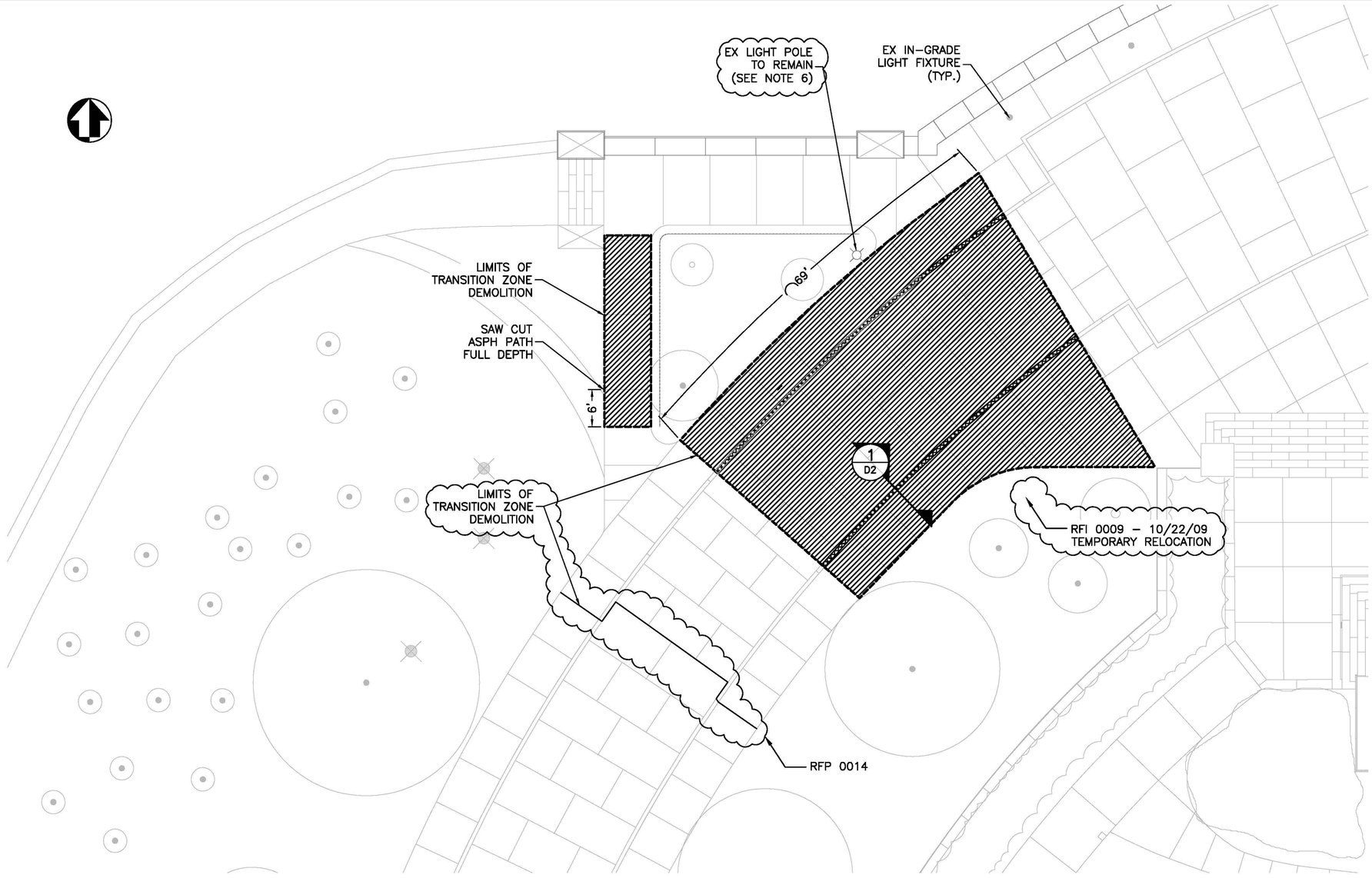
1/D2 EXISTING RING ROAD TYP.
NO SCALE

NOTE:
GEOMETRY BASED ON HISTORICAL DOCUMENTS PROVIDED BY NPS. MUST BE VERIFIED IN FIELD.

10 0 10 20
SCALE OF FEET

DESIGNED: DW, JG, HR CADD NSF, JM TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. D2	TITLE OF SHEET TRANSITION ZONE DEMOLITION WEST RING ROAD THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 16 OF 54

11/2/11 13:17 JMIKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THAE\128232\CIVIL\D2 TRANS W.DWG XREFS: ..\BASES\XC-AXREF.DWG; ..\BASES\XC-GRATE.DWG;



WEST TRANSITION DEMOLITION

DEMOLITION LEGEND:

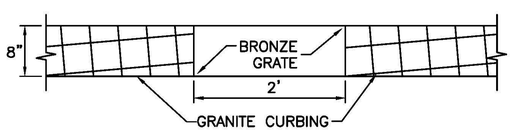
EXTENT OF DEMOLITION

REMOVED, SALVAGED, CLEANED, AND REINSTALLED

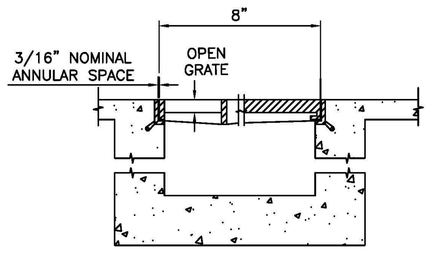
NOTES

1. FOR FENCE TYPE, LOCATION, AREA OFF LIMITS TO CONTRACTOR AND AREA OF REQUIRED PROTECTION SEE SHEET T1.
2. SEAWALL, PLAZA SLAB AND TOPPING COURSE SHALL BE REMOVED AND DISPOSED OF OFF-SITE.
3. LIMITED AREAS OF THE RING ROAD AND PLAZA HAVE BEEN PATCHED OR REPLACED W/ASPHALT PAVING.
4. DRAINAGE GRATES EXIST ALONG THE RING ROAD, SET IN GRANITE CURBING, AT AN APPROXIMATE 25' INTERVAL. APPROXIMATELY 3 EXIST WITHIN THE TRANSITION ZONE. ACTUAL LOCATIONS VARY.
5. CONTRACTOR SHALL REMOVE EXISTING PINE TREES WITHIN THE TRIANGULAR AREA ADJACENT TO THE RING ROAD AND SIDEWALK BEHIND THE SEAWALL AND INSTALL SIX NEW TREES AT THE END OF CONTRACT. SEE S20 FOR PLANTING PLAN.
6. CONTRACTOR SHALL MAINTAIN AND PROTECT EXISTING LIGHT POLES AND CONDUITS. THE CONTRACTOR MAY REMOVE THE LIGHT POLES AND CONDUITS AND REINSTALL AT END OF CONTRACT, IF COMPARABLE LIGHTING AND NPS AND USPP CCTV CAMERAS ARE INSTALLED. IN EITHER CASE CONTRACTOR SHALL NOT OBSTRUCT, WITH EQUIPMENT OR OTHERWISE, THE LIGHTING AND CCTVs. LIGHT POLES AND CONDUIT CONFIGURATION AND LAYOUT SHALL BE REINSTALLED TO MATCH EXISTING CONDITIONS.

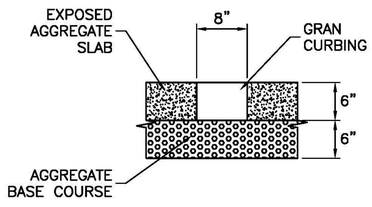
RFP 0014-
WEST LIGHT POLE BASE REBUILT. REINFORCEMENT DETAIL ON SWG S27.



EXISTING DRAINAGE GRATE – PLAN VIEW
NO SCALE



EXISTING DRAINAGE GRATE – SECTION VIEW
NO SCALE



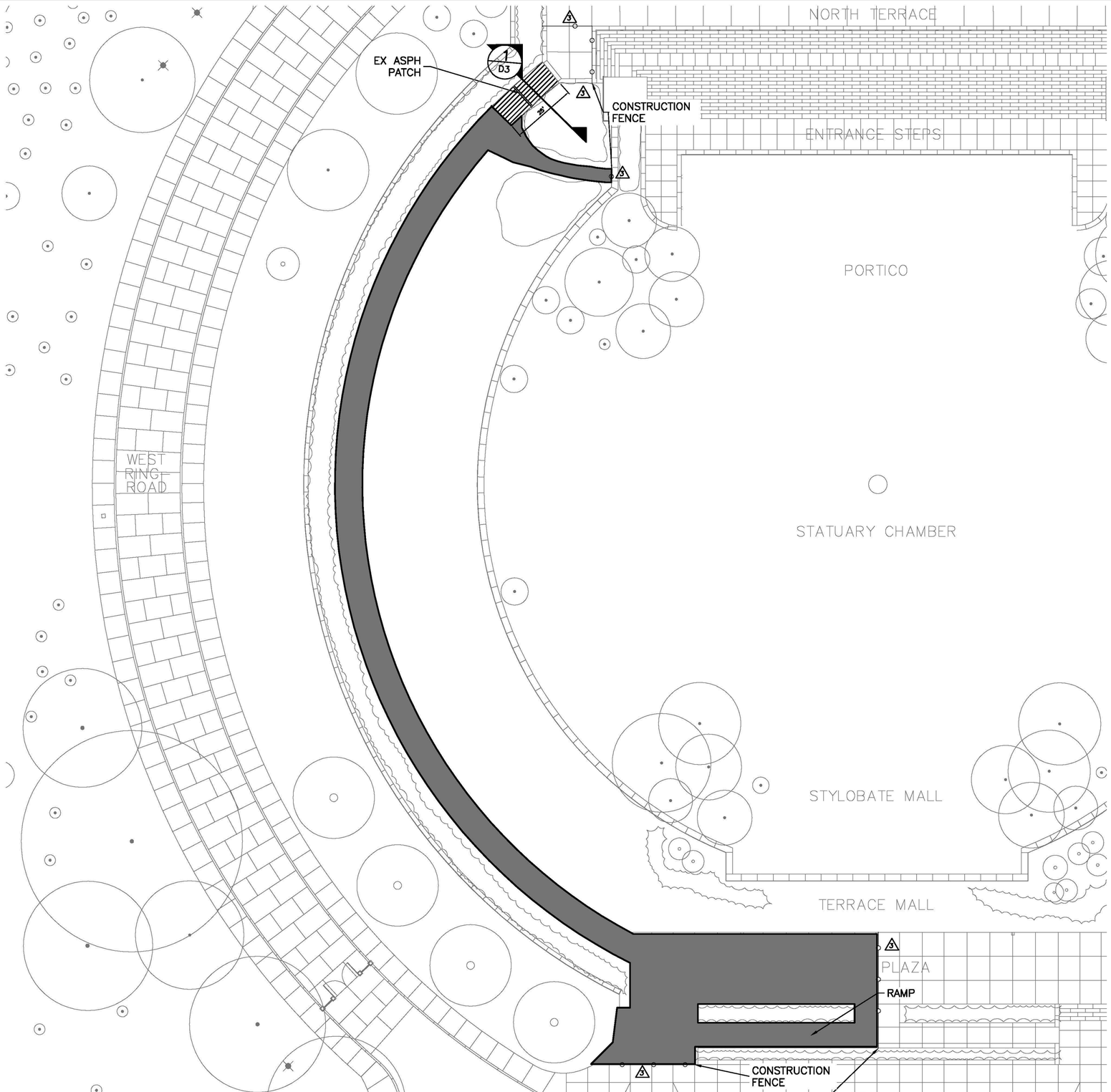
1/D2 EXISTING RING ROAD TYP.
NO SCALE

NOTE:
GEOMETRY BASED ON HISTORICAL DOCUMENTS PROVIDED BY NPS. MUST BE VERIFIED IN FIELD.

10 0 10 20
SCALE OF FEET

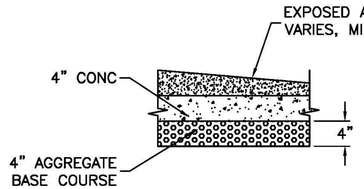
DESIGNED: DW, JG, HR CADD NSF, JM TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. D2	TITLE OF SHEET TRANSITION ZONE DEMOLITION WEST RING ROAD THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 16 OF 54

11/2/11 13:17 JMIKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THAE\128232\CIVIL\D2 TRANS W.DWG XREFS: ..\BASES\XC-AXREF.DWG; ..\BASES\XC-GRATE.DWG;



TERRACE WALKWAY DEMOLITION

NOTE:
GEOMETRY BASED ON HISTORICAL DOCUMENTS PROVIDED BY NPS. MUST BE VERIFIED IN FIELD.



1 / D3 EXISTING TERRACE WALKWAY
NO SCALE

PEDESTRIAN TRAFFIC SIGNAGE NOTES

3 TERRACE WALKWAY CLOSED FOR RENOVATIONS (FOR USE ONLY DURING RENOVATIONS TO TERRACE WALKWAY. AREA TO REMAIN OPEN DURING ALL OTHER TIMES.)

DEMOLITION LEGEND:

EXTENT OF DEMOLITION

CLOSED TO THE PUBLIC DURING WORK AT TERRACE WALKWAY

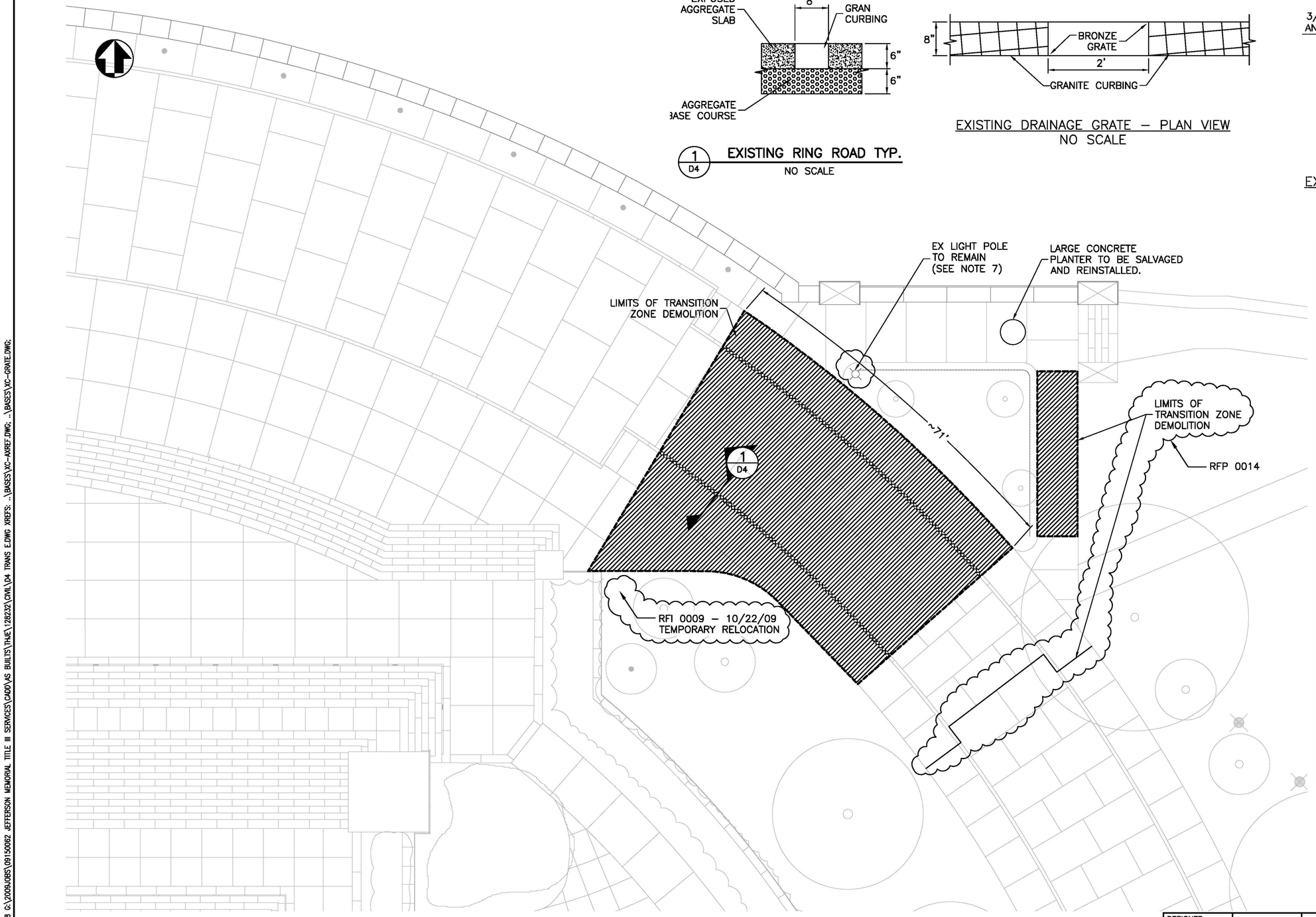
NOTES

1. FOR AREA OFF LIMITS TO CONTRACTOR AND AREA OF REQUIRED PROTECTION SEE SHEET T1.
2. TERRACE WALKWAY SLAB SHALL BE REMOVED AND DISPOSED OF OFF-SITE.
3. LIMITED AREAS OF THE RING ROAD AND PLAZA HAVE BEEN PATCHED OR REPLACED W/ASPHALT PAVING.
4. FOR FENCE TYPES SEE SPECIFICATION 01 56 00.
5. THE EXISTING CONDITIONS PLAN INDICATES A 12" CORRUGATED METAL PIPE IN THE AREA OF THE TERRACE WALKWAY CONSTRUCTION. THE CONTRACTOR SHALL USE CARE DURING EXCAVATION AND RECONSTRUCTION ACTIVITIES TO NOT CAUSE DAMAGE TO THIS PIPE. DAMAGE CAUSED DURING CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED AT NO EXPENSE TO THE GOVERNMENT.

10 0 10 20
SCALE OF FEET

DESIGNED: DW, JG, HR CADD: NSF, MD TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. D3	TITLE OF SHEET TRANSITION ZONE DEMOLITION TERRACE WALKWAY THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 17 OF 54

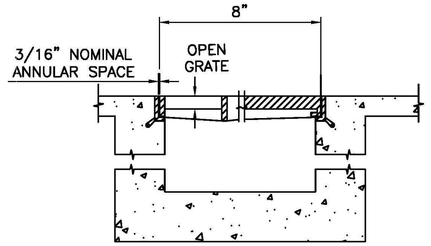
11/2/11 13:05 JNIKITKA R18 G:\2009\085\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\CIVIL\D3 WALKS.DWG XREFS: ..\BASES\XC-AXREF.DWG;



EAST TRANSITION DEMOLITION

1 / D4 EXISTING RING ROAD TYP.
NO SCALE

EXISTING DRAINAGE GRATE – PLAN VIEW
NO SCALE



EXISTING DRAINAGE GRATE – SECTION VIEW
NO SCALE

DEMOLITION LEGEND:

EXTENT OF DEMOLITION

REMOVED, SALVAGED, CLEANED, AND REINSTALLED

NOTES

1. FOR FENCE TYPE, LOCATION, AREA OFF LIMITS TO CONTRACTOR AND AREA OF REQUIRED PROTECTION SEE SHEET T1.
2. SEAWALL, PLAZA SLAB AND TOPPING COURSE SHALL BE REMOVED AND DISPOSED OF OFF–SITE.
3. LIMITED AREAS OF THE RING ROAD AND PLAZA HAVE BEEN PATCHED OR REPLACED W/ASPHALT PAVING.
4. PLANTERS LOCATED WITHIN LIMIT OF WORK SHALL BE SALVAGED AND REINSTALLED AT THE END OF CONTRACT.
5. DRAINAGE GRATES EXIST ALONG THE RING ROAD, SET IN THE GRANITE CURBING, AT AN APPROXIMATE 25' INTERVAL. APPROXIMATELY 3 EXIST WITHIN THE TRANSITION ZONE. ACTUAL LOCATIONS VARY.
6. CONTRACTOR SHALL REMOVE EXISTING PINE TREES WITHIN THE TRIANGULAR AREA ADJACENT TO THE RING ROAD AND SIDEWALK BEHIND THE SEAWALL AND INSTALL SIX NEW TREES AT THE END OF CONTRACT. SEE S20 FOR PLANTING PLAN.
7. CONTRACTOR SHALL MAINTAIN AND PROTECT EXISTING LIGHT POLES AND CONDUITS. THE CONTRACTOR MAY REMOVE THE LIGHT POLES AND CONDUITS AND REINSTALL AT END OF CONTRACT, IF COMPARABLE LIGHTING AND NPS AND USPP CCTV CAMERAS ARE INSTALLED. IN EITHER CASE CONTRACTOR SHALL NOT OBSTRUCT, WITH EQUIPMENT OR OTHERWISE, THE LIGHTING AND CCTVs. LIGHT POLES AND CONDUIT CONFIGURATION AND LAYOUT SHALL BE REINSTALLED TO MATCH EXISTING CONDITIONS.

10 0 10 20
SCALE OF FEET

NOTE:
GEOMETRY BASED ON HISTORICAL DOCUMENTS PROVIDED BY NPS. MUST BE VERIFIED IN FIELD.

DESIGNED:	DW, JG, HR
CADD	NSF, JM
TECH. REVIEW:	DW, JG
DATE:	6–15–09

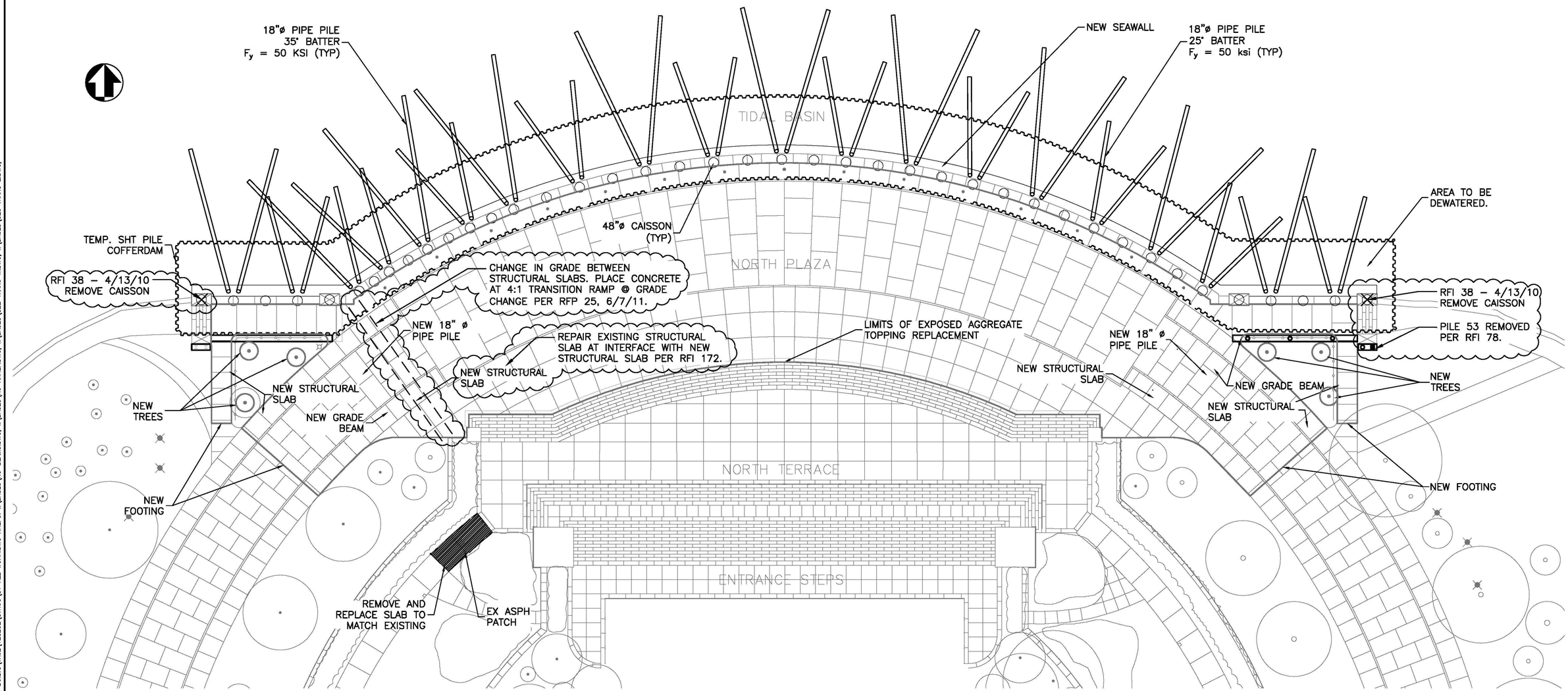
SUB SHEET NO. D4

TITLE OF SHEET
TRANSITION ZONE DEMOLITION EAST RING ROAD
THOMAS JEFFERSON MEMORIAL
NATIONAL MALL AND MEMORIAL PARKS

DRAWING NO. 808 25005A
PMIS/PKG NO. 128232
SHEET 18 OF 54

11/2/11 13:16 JMIKITKA R18 G:\2009\08S\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\DWL\D4 TRANS E.DWG XREFS: ..\BASES\XC-AXREF.DWG; ..\BASES\XC-GRATE.DWG;

11/28/11 16:51 JNIKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THAE\128232\STRUCTS\S1 ALL WORK.DWG XREFS: ..\BASES\XC-BEAMS.DWG; ..\BASES\XC-AXREF.DWG; ..\BASES\S22 TRANS W.DWG; ..\BASES\S23 TRANS E.DWG;



NOTE:
ACTUAL EXTENT OF WORK WILL BE DEPENDENT ON WHICH CLINS HAVE BEEN AWARDED. SEE SHEET G3.

NORTH PLAZA

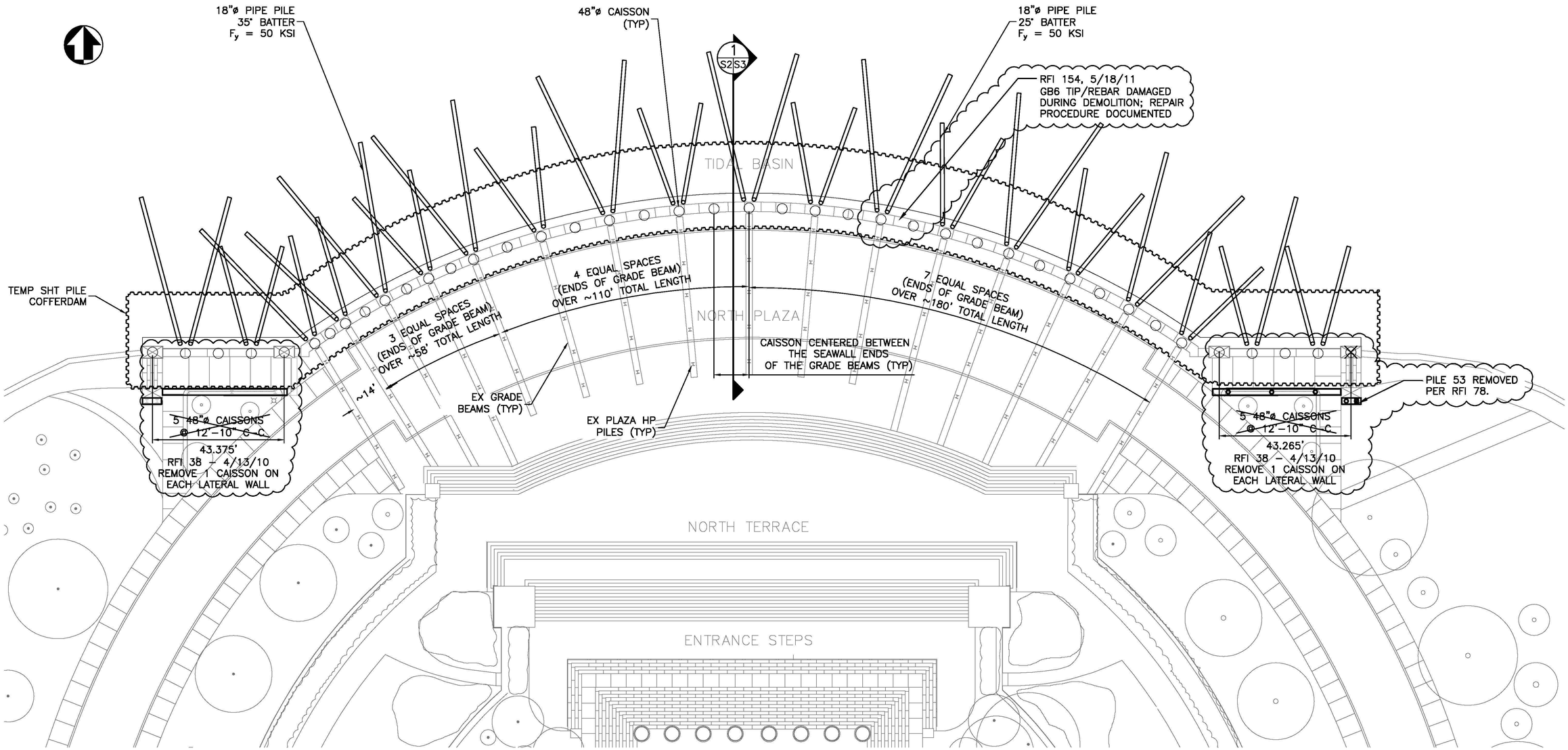
RFI 36 – 4/7/2010
NEW SEAWALL/PLAZA RE–BUILD ELEVATIONS – VERTICAL GEOMETRY

RFI 130 – 3/18/2011
HP 14x73, GR.50 KSI, DRIVEN TO REFUSAL FOR GRILLAGE CONSTRUCTION TO REMAIN IN GROUND @ END OF PROJECT DUE TO PRESENCE OF NATURAL GAS. LOCATION AND PROFILE OF ROCK ELEVATION PROVIDED.

20 0 20 40
SCALE OF FEET

DESIGNED: DW, JG, HR CADD: NSF, MD TECH. REVIEW: JG, DW DATE: 6–15–09	SUB SHEET NO. S1	TITLE OF SHEET PLAN VIEW OF NORTH PLAZA, SEAWALL AND TRANSITION AREA WORK THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 19 OF 54

11/28/11 17:20 JNIKITKA R18 G:\2009\085\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\STRUC\S2 N PLAZA.DWG XREFS: ..\BASES\XC-BEAMS.DWG; ..\BASES\XC-AXREF.DWG;



NORTH PLAZA

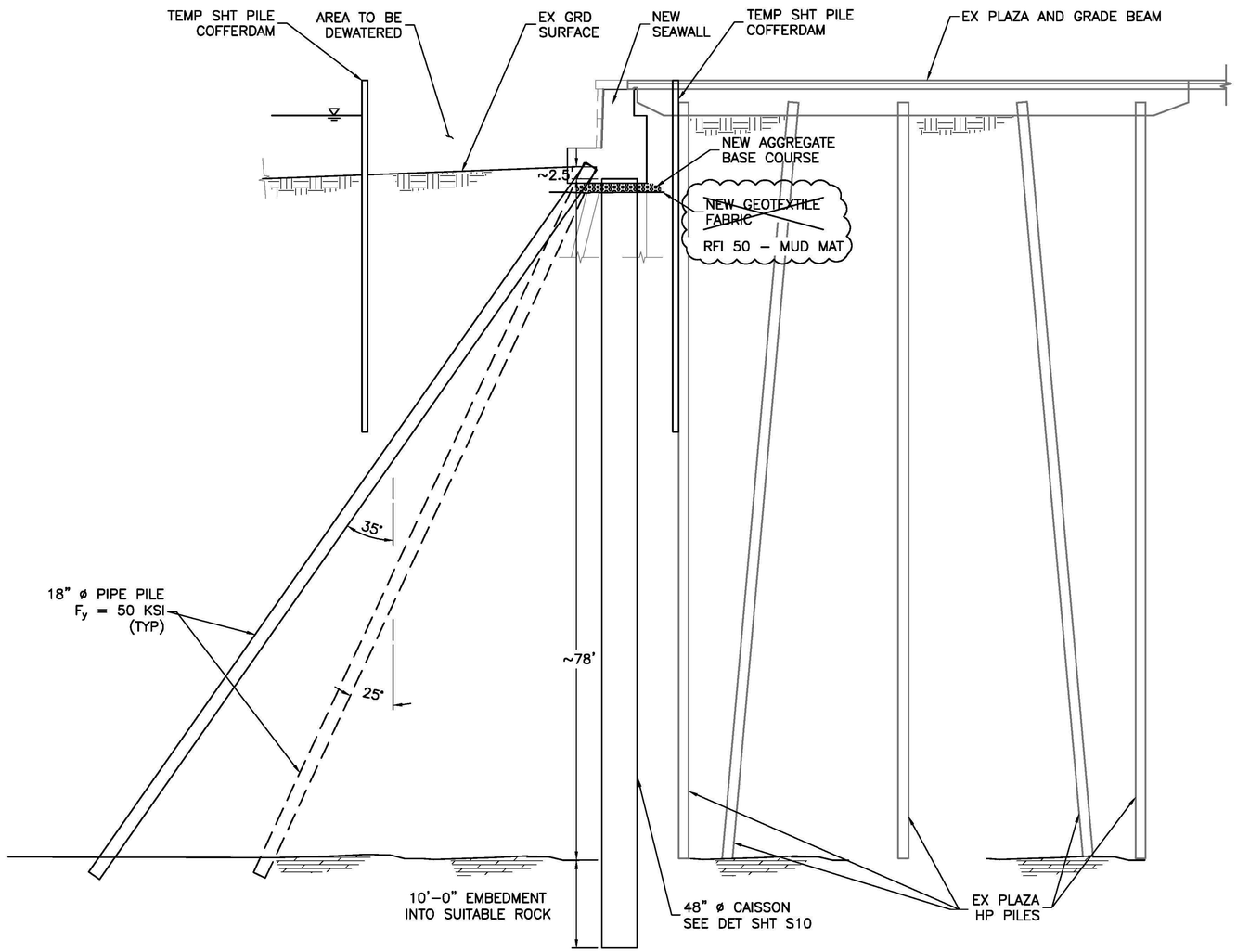
NOTES

1. REFER TO SHEET G1 GENERAL NOTES.
2. SPACING OF GRADE BEAMS BASED ON HISTORICAL DOCUMENTS. GRADE BEAM LOCATIONS SHALL BE VERIFIED BY CONTRACTOR IN FIELD.

THERE ARE EXTENSIVE SUBMITTAL REQUIREMENTS RELATED TO DOCUMENTATION OF THE EXISTING SEAWALL AND SEAWALL GRANITE FEATURES, SHOP DRAWING DESIGN OF THE NEW SEAWALL, AND REINSTALLATION OF THE GRANITE FEATURES WHICH MUST BE PERFORMED, PREPARED, AND SUBMITTED BY THE CONTRACTOR, TO THE GOVERNMENT FOR REVIEW AND APPROVAL, PRIOR TO PERFORMANCE OF ANY SEAWALL DEMOLITION WORK . THESE SUBMITTALS WILL ENSUE PROPER DOCUMENTATION AND REINSTALLATION OF THE HISTORIC ELEMENTS OF THE SEAWALL. REFER TO SPECIFICATION SECTIONS 02 21 13, 02 42 91 AND 03 11 00 FOR DETAILS

20 0 20 40
SCALE OF FEET

DESIGNED: DW, JG, HR CADD: NSF, MD TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. S2	TITLE OF SHEET SEAWALL REMEDIATION PLAN VIEW THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 20 OF 54



1 / S2|S3 NORTH PLAZA – SECTION VIEW

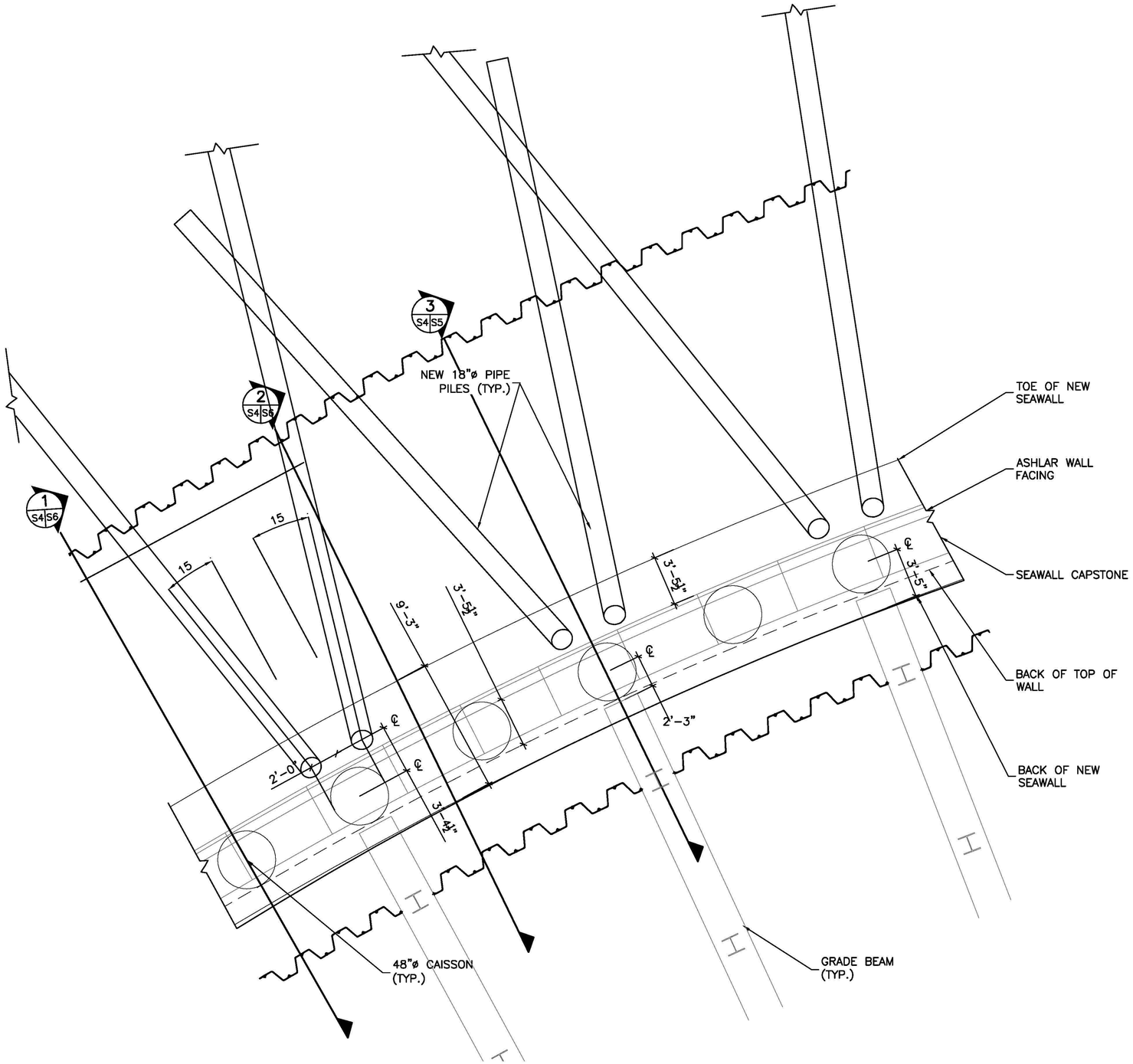
NOTES

1. REFER TO SHEET G1 GENERAL NOTES.
2. REFER TO PROJECT DOCUMENTATION FOR SUBSURFACE SOIL CONDITIONS

8 0 8 16
SCALE OF FEET

DESIGNED: DW, JG, HR CADD: NSF, MD TECH. REVIEW: DW, JG DATE: 6–15–09	SUB SHEET NO. S3	TITLE OF SHEET SEAWALL REMEDIATION SECTION VIEW THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 21 OF 54

11/17/11 10:53 JNIKITKA R18 G:\2008\0085\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\STRUC\S3 REPAIR.DWG



1 S4 PLAN VIEW OF SEAWALL – TYPICAL

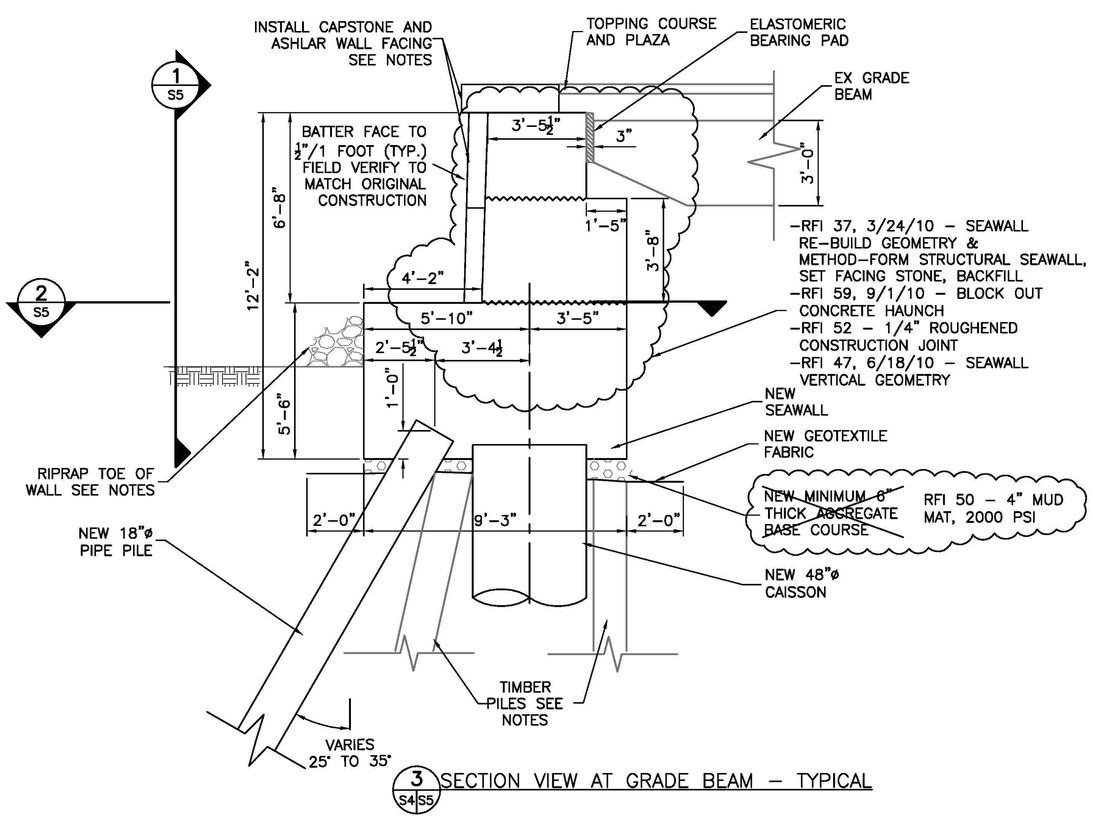
NOTES:

1. REFER TO SHEET G1 GENERAL NOTES.
2. SPLAY OF PIPE PILES IS TYPICAL ANGLE TO LINE PERPENDICULAR FROM CURVE OF SEAWALL.

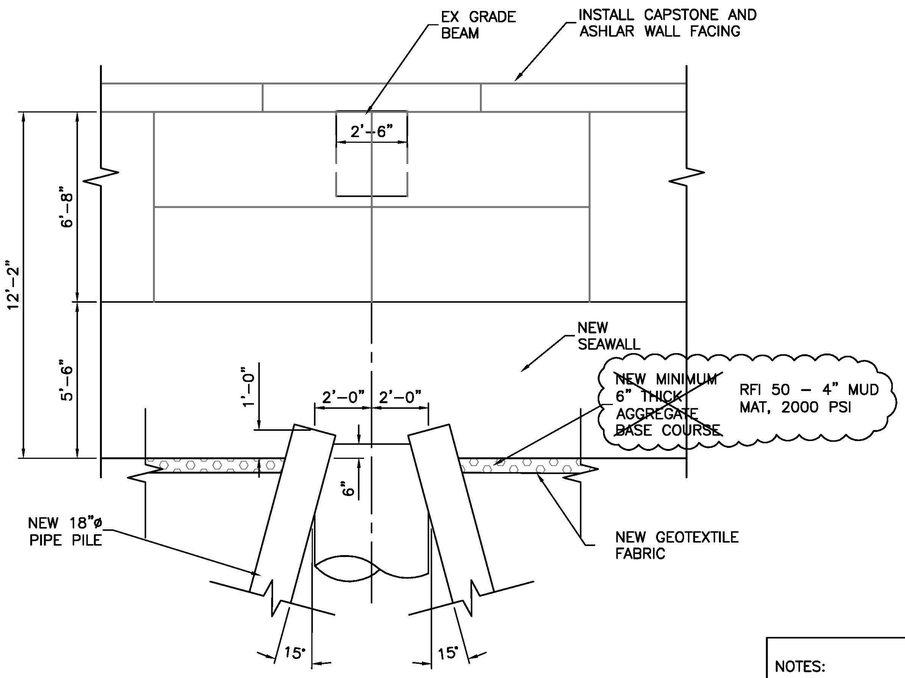
4 0 4 8
SCALE OF FEET

DESIGNED: DW, MD, GA, RD CADD NSF, MD TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. S4	TITLE OF SHEET SEAWALL PLAN VIEW THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 22 OF 54

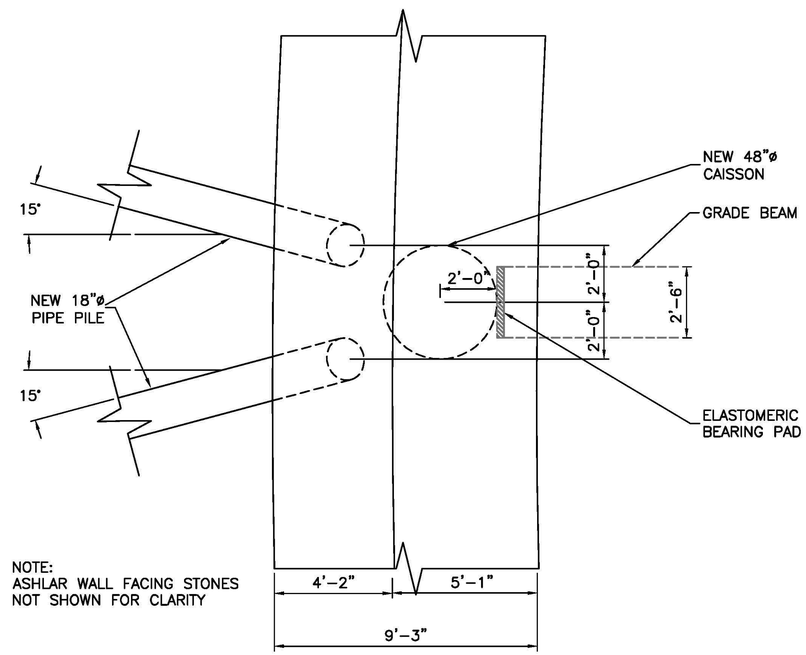
11/17/11 10:55 JMIKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\STRUC\S4 SEAWALL.DWG XREFS: ..\BASES\XS-RUBBLE.DWG;



3 S4 S5 SECTION VIEW AT GRADE BEAM – TYPICAL



1 S5 ELEVATION VIEW AT GRADE BEAM – TYPICAL



2 S5 PLAN VIEW AT GRADE BEAM – TYPICAL

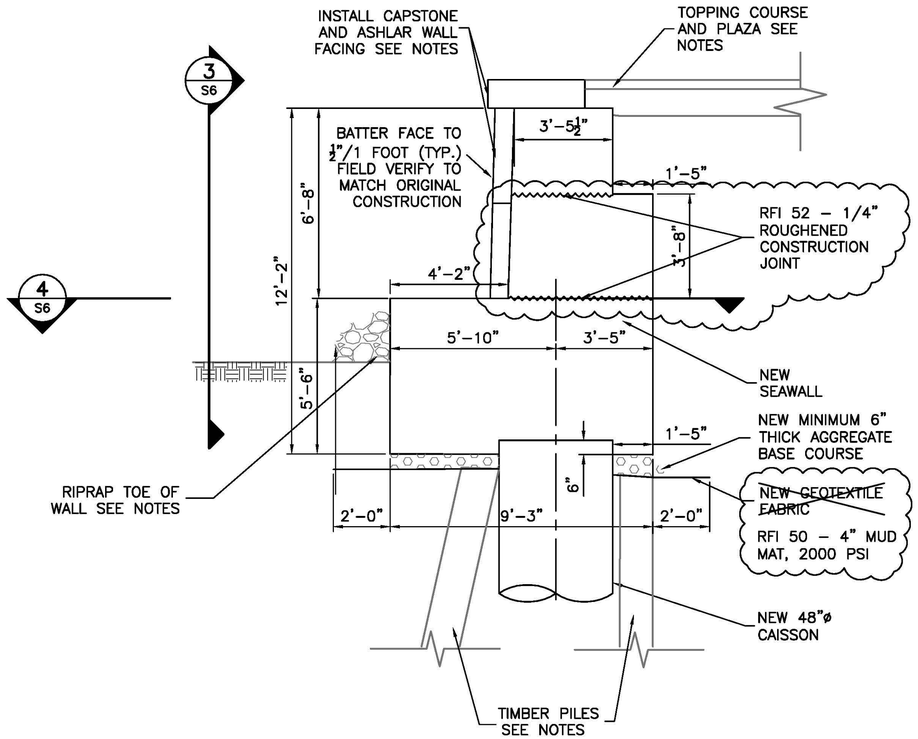
NOTES:

1. EXISTING TIMBER PILES TO BE CUT OFF A MINIMUM OF ONE FOOT BELOW BOTTOM OF PROPOSED SEAWALL. PER NPS DISCRETION, A SECTION OF THE EXISTING TIMBER PILES WILL BE SALVAGED AND DELIVERED TO THE NPS FOR FUTURE DENDROCHRONOLOGY ANALYSIS.
2. SAW CUT TO FULL DEPTH, REMOVE AND REPLACE APPROXIMATELY 10 FT OF PLAZA SLAB FROM BACK OF EXISTING WALL TO NEAREST JOINT AT GRANITE CURB LOCATION.
3. GROUND SURFACE SHOWN AT TOE OF WALL IS APPROXIMATE AND VARIES. SOIL SHALL BE GRADED SUCH THAT GROUND SURFACE IS 2 FT BELOW THE TOP OF TOE OF THE NEW SEAWALL. RIPRAP SHALL BE PLACED 4 FT WIDE BY 2 FT HIGH ALONG LENGTH OF SEAWALL. RIPRAP MAY BE REUSED FROM BASE OF EXISTING SEAWALL IN ACCORDANCE WITH 31 37 00.
4. CAPSTONE SHALL OVERHANG ASHLAR FACING BY 3 INCHES. THE STONE LAYOUT AND JOINT PATTERN SHALL CONFORM/MATCH EXISTING.
5. CAPSTONE SHALL BE SET ON MINIMUM 1" BEDDING MORTAR.
6. REFER TO SHEET G1 GENERAL NOTES.

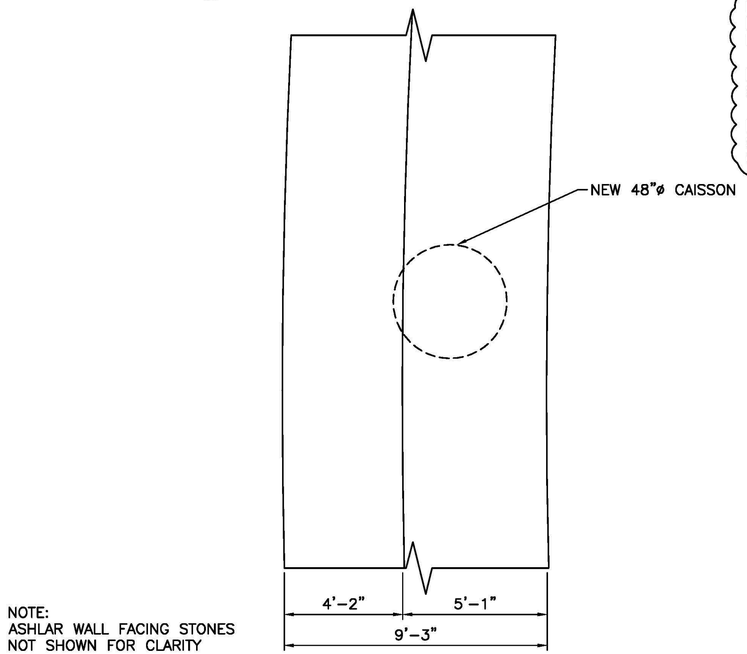
2 0 2 4 6
SCALE OF FEET

DESIGNED: DW, MD, GA, RD CADD NSF, MD TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. S5	TITLE OF SHEET SEAWALL DETAILS AT GRADE BEAM THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 23 OF 54

3/12/12 14:18 JMIKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\STRUC\S5 CAISSON.DWG

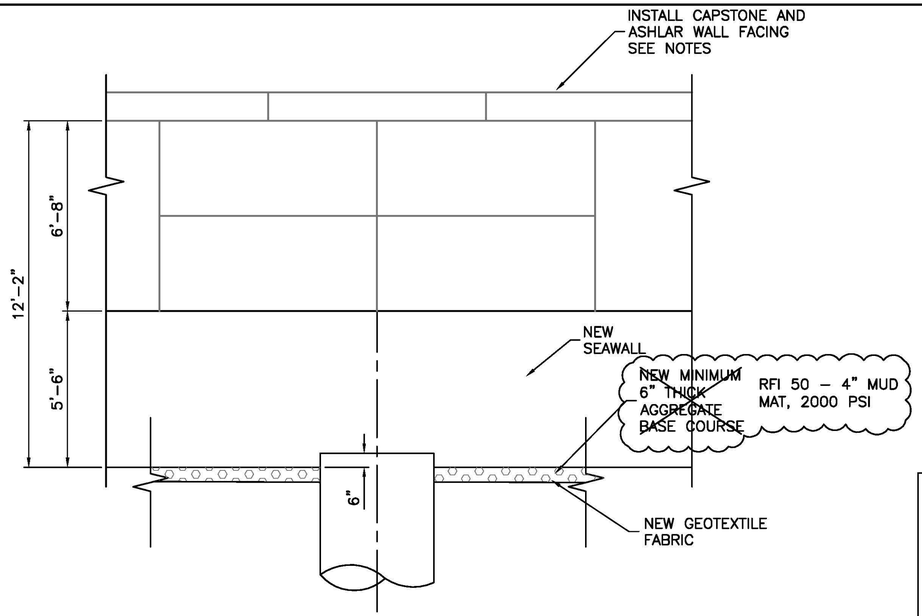


1 S4 S6 SECTION VIEW BETWEEN GRADE BEAMS – TYPICAL

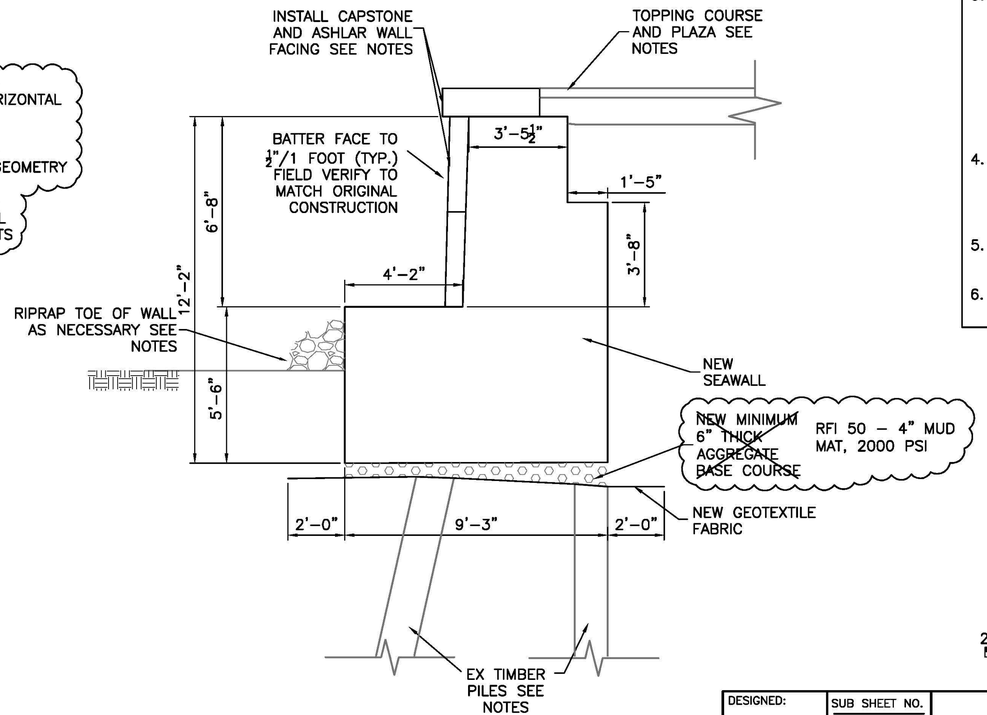


NOTE:
ASHLAR WALL FACING STONES NOT SHOWN FOR CLARITY

4 S6 PLAN VIEW BETWEEN GRADE BEAMS – TYPICAL



3 S6 ELEVATION VIEW BETWEEN GRADE BEAMS – TYPICAL



2 S4 S6 S7 SECTION VIEW AT MID WALL – TYPICAL

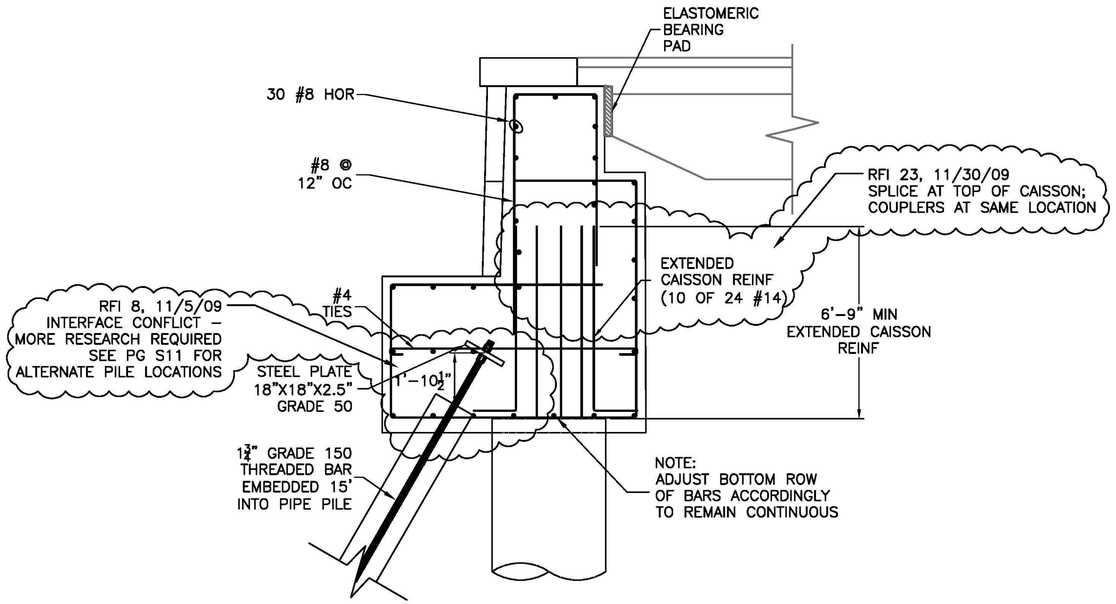
NOTES:

1. EXISTING TIMBER PILES TO BE CUT OFF A MINIMUM OF ONE FOOT BELOW BOTTOM OF PROPOSED SEAWALL. PER NPS DISCRETION, A SECTION OF THE EXISTING TIMBER PILES WILL BE SALVAGED AND DELIVERED TO THE NPS FOR FUTURE DENDROCHRONOLOGY ANALYSIS.
2. SAW CUT TO FULL DEPTH, REMOVE AND REPLACE APPROXIMATELY 10 FT OF PLAZA SLAB FROM BACK OF EXISTING WALL TO NEAREST JOINT AT GRANITE CURB LOCATION.
3. GROUND SURFACE SHOWN AT TOE OF WALL IS APPROXIMATE AND VARIES. SOIL SHALL BE GRADED SUCH THAT GROUND SURFACE IS 2 FT BELOW THE TOP OF TOE OF THE NEW SEAWALL. RIPRAP SHALL BE PLACED 4 FT WIDE BY 2 FT HIGH ALONG LENGTH OF SEAWALL. RIPRAP MAY BE REUSED FROM BASE OF EXISTING SEAWALL IN ACCORDANCE WITH 31 37 00.
4. CAPSTONE SHALL OVERHANG ASHLAR FACING BY 3 INCHES. THE STONE LAYOUT AND JOINT PATTERN SHALL CONFORM/MATCH EXISTING.
5. CAPSTONE SHALL BE SET ON MINIMUM 1" BEDDING MORTAR.
6. REFER TO SHEET G1 GENERAL NOTES.

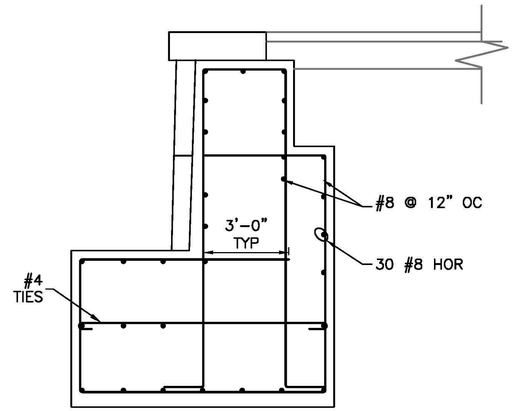
2 0 2 4 6
SCALE OF FEET

DESIGNED: DW, MD, GA, RD CADD: NSF, MD TECH. REVIEW: DW, JG DATE: 6–15–09	SUB SHEET NO. S6	TITLE OF SHEET SEAWALL DETAILS BETWEEN GRADE BEAMS THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 24 OF 54

11/17/11 14:19 JMIKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\STRUC\S6 CAISSON.DWG



3 / S7 SECTION VIEW AT GRADE BEAM – TYPICAL



2 / S4 S6 S7 SECTION VIEW AT MID WALL – TYPICAL

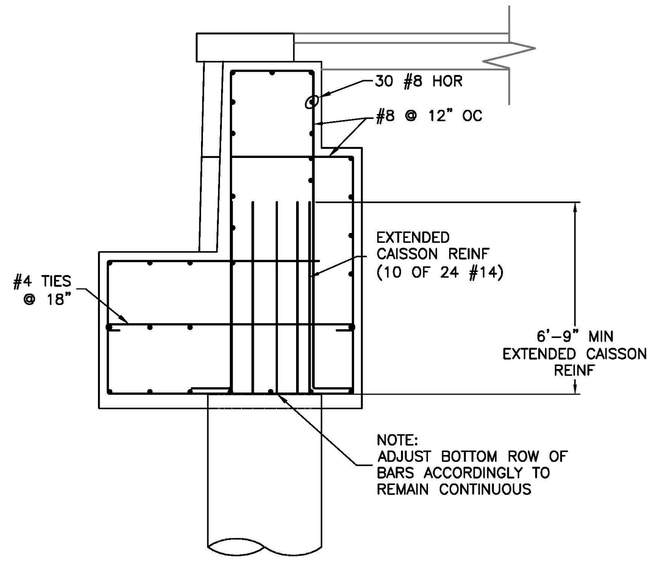
NOTES:

1. EXISTING TIMBER PILES TO BE CUT OFF A MINIMUM OF ONE FOOT BELOW BOTTOM OF PROPOSED SEAWALL. PER NPS DISCRETION, A SECTION OF THE EXISTING TIMBER PILES WILL BE SALVAGED AND DELIVERED TO THE NPS FOR FUTURE DENDROCHRONOLOGY ANALYSIS.
2. SAW CUT TO FULL DEPTH, REMOVE AND REPLACE APPROXIMATELY 10 FT OF PLAZA SLAB FROM BACK OF EXISTING WALL TO NEAREST JOINT AT GRANITE CURB LOCATION.
3. BAR LENGTHS FOR REFERENCE ONLY. ACTUAL BEND RADII AND MINIMUM LENGTH AND SPLICE REQUIREMENTS TO BE DEFINED BY DETAILER.
4. CAPSTONE SHALL OVERHANG ASHLAR FACING BY 3 INCHES. THE STONE LAYOUT AND JOINT PATTERN SHALL MATCH/CONFORM EXISTING.
5. REFER TO SHEET G1 GENERAL NOTES.

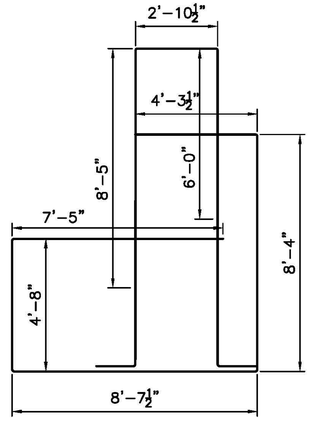
2 0 2 4 6
SCALE OF FEET

DESIGNED: DW, MD, GA, RD CADD: NSF, MD TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. S7	TITLE OF SHEET SEAWALL REINFORCING DETAILS AT CAISSON AND PIPE PILES THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 25 OF 54

11/28/11 17:29 JMIKITKA R18 G:\2008JOBS\09150062_JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\STRUCT\S7 CAISSON.DWG



2 / S8 SECTION VIEW BETWEEN GRADE BEAMS – TYPICAL



4 / S8 SEAWALL REINFORCEMENT – TYPICAL

NOTES:

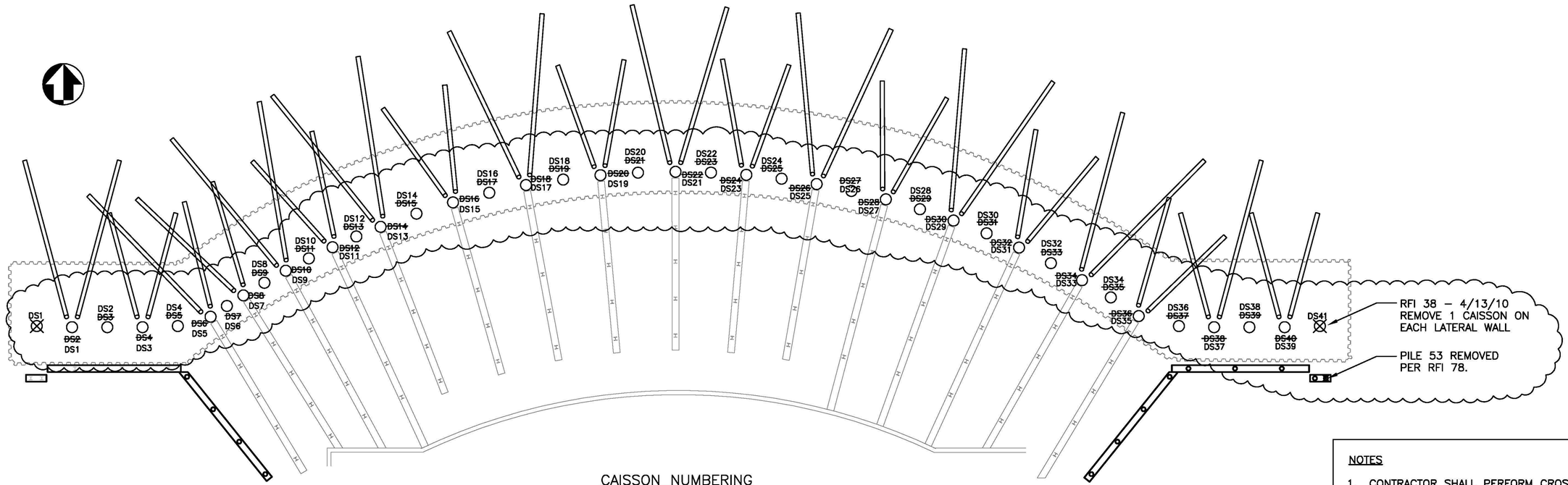
1. SAW CUT TO FULL DEPTH, REMOVE AND REPLACE APPROXIMATELY 10 FT OF PLAZA SLAB FROM BACK OF EXISTING WALL TO NEAREST JOINT AT GRANITE CURB LOCATION.
2. BAR LENGTHS FOR REFERENCE ONLY. ACTUAL BEND RADII AND MINIMUM LENGTH AND SPLICE REQUIREMENTS TO BE DEFINED BY DETAILER.
3. REFER TO SHEET G1 GENERAL NOTES.

RFI 0115, 1/15/11
REBAR/FACING STONE CONFLICT AT 77B (RADIAL TO LATERAL CONNECTION ON WEST SIDE OF SEAWALL). REBAR TO BE MODIFIED AS SHOWN IN RFI RESPONSE.

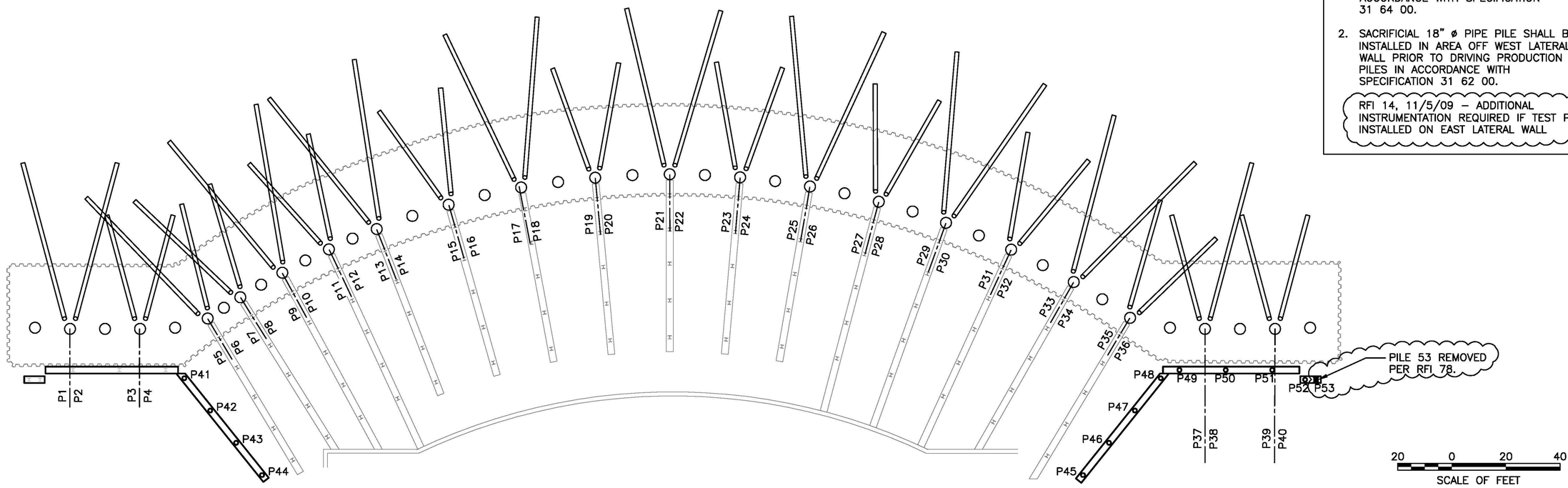
2 0 2 4 6
SCALE OF FEET

DESIGNED: DW, MD, GA, RD CADD: NSF, MD TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. S8	TITLE OF SHEET SEAWALL REINFORCING DETAILS AT CAISSON (NO PIPE PILES) THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 26 OF 54

11/18/11 12:48 JMIKITKA R18 G:\2008\085\09150062 JEFFERSON MEMORIAL TITLE III \SERVICES\CADD\AS BUILTS\THAE\128232\STRUC\S8 CAISSON.DWG



CAISSON NUMBERING



STEEL PILE NUMBERING

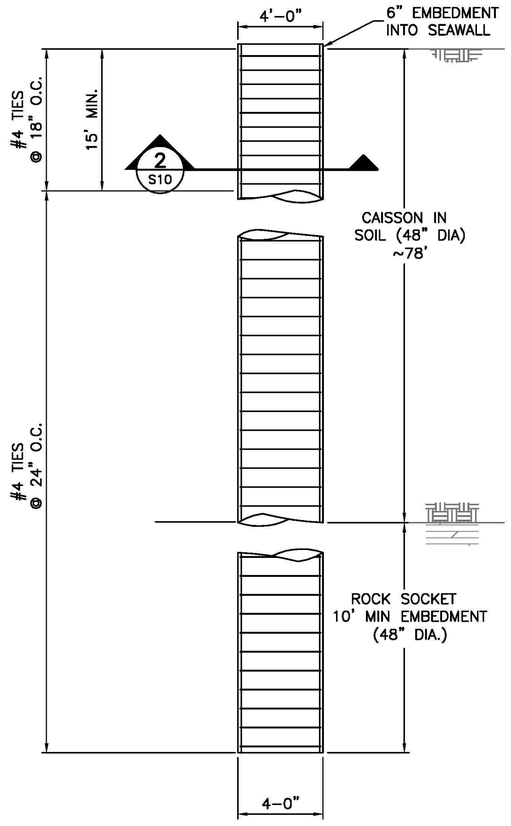
NOTES

1. CONTRACTOR SHALL PERFORM CROSSHOLE SONIC LOGGING AT EACH CLIN IN ACCORDANCE WITH SPECIFICATION 31 64 00.
2. SACRIFICIAL 18" ø PIPE PILE SHALL BE INSTALLED IN AREA OFF WEST LATERAL WALL PRIOR TO DRIVING PRODUCTION PILES IN ACCORDANCE WITH SPECIFICATION 31 62 00.

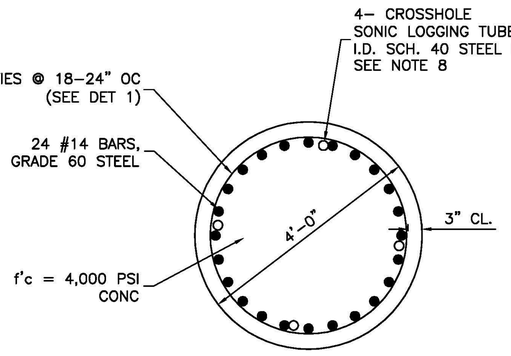
RFI 14, 11/5/09 – ADDITIONAL INSTRUMENTATION REQUIRED IF TEST PILE INSTALLED ON EAST LATERAL WALL

DESIGNED: DW, JG, HR CADD NSF, MD TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. S9	TITLE OF SHEET CAISSON AND STEEL PILE NUMBERING SYSTEM THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 27 OF 54	

11/28/11 18:00 JMIKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THAE\128232\STRUC\S9 PP-DS NUMBER.DWG XREFS: ..\BASES\XC-BEAMS.DWG;



1 / S10 TYPICAL ELEVATION OF CAISSON
N.T.S.



2 / S10 CAISSON SECTION VIEW – (TYP)

RFI 21, 12/01/09
RFI 31, 2/26/10
MINIMUM STAGGERED CLEAR DISTANCE OF 2 FT

CAISSON NOTES:

1. THE METHOD OF ADVANCING THE HOLE SHALL BE APPROVED BY THE CONTRACTING OFFICER PRIOR TO CAISSON CONSTRUCTION.
2. CONTRACTOR SHALL NOT YIELD OR PERMANENTLY DEFORM REBAR CAGES DURING LIFTING, HANDLING OR PLACEMENT.
3. SPLICES SHALL BE MADE USING APPROVED MECHANICAL CONNECTORS IN ACCORDANCE WITH AASHTO DIV. 1, SEC. 8.32 NO LAP SPLICES OR WELDED SPLICES WILL BE PERMITTED. STAGGER REINFORCEMENT SPLICES A MINIMUM OF 3'.
4. SPLICES ON VERTICAL REINFORCEMENT SHALL NOT BE PLACED WITHIN 10 FT OF THE ROCK SOCKET OR IN THE TOP 30 FT OF THE SHAFT.
5. APPROVED SPACERS SHALL BE USED TO ALIGN REINFORCEMENT WITHIN THE CAISSONS.
6. CONCRETE USED IN CAISSONS SHALL HAVE A MINIMUM 28–DAY COMPRESSIVE STRENGTH OF 4000 PSI.
7. VERTICAL BARS TO BE CONTINUOUS WITHIN CAISSON TO SEAWALL CONNECTION.
8. CROSSHOLE SONIC LOGGING TUBES SHALL BE INSTALLED DURING THE CONSTRUCTION OF TWO CAISSONS IN THE FIRST CLIN AND ONE CAISSON AT EACH ADDITIONAL CLIN LOCATION. SEE SPECIFICATION 31 64 00.
9. CAISSON CONCRETE MUST BE COMPLETED A MINIMUM OF 14 DAYS PRIOR TO CONSTRUCTION OF SEAWALL.
10. REFER TO SHEET G1 GENERAL NOTES.

RFI 24, 12/10/09
CSL TUPES IN CAISSONS:
DS3 DS29
DS13 DS33
DS21 DS39

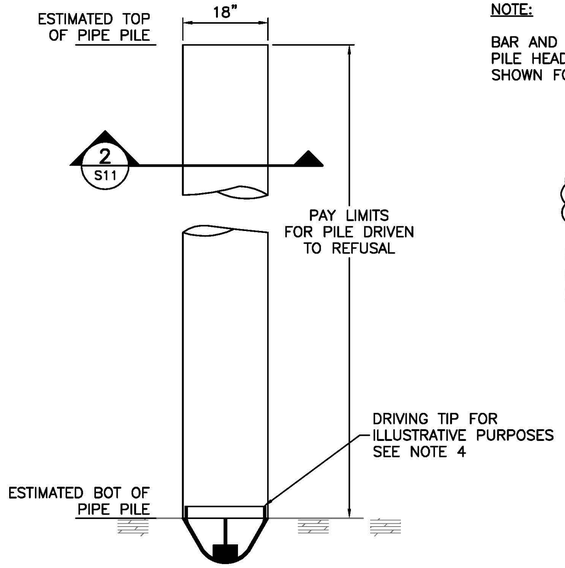
RFI 49, 7/14/10
REVISED CSL TUBE LOCATIONS

RFI 48, 6/11/10
PROPOSED CAISSON TIP ELEVATIONS

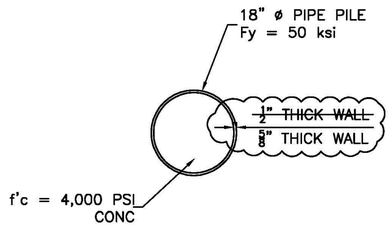
1 0 1 2 3
SCALE OF FEET

DESIGNED: DW, MD CADD: NSF, MD TECH. REVIEW: DW, JG DATE: 6–15–09	SUB SHEET NO. S10	TITLE OF SHEET CAISSON DETAILS THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 28 OF 54

11/29/11 09:48 JMIKITKA R18 G:\2009\0085\09150062_JEFFERSON_MEMORIAL_TITLE III SERVICES\CADD\AS_BUILTS\THAE\128232\STRUC\S10_SHAFT.DWG



1 S11 PIPE PILE – TYPICAL ELEVATION
N.T.S.



2 S11 PIPE PILE – SECTION

RFI 0026, 1/20/10 – P4, P5, P7 LOCATION AND DEGREE OF BATTER MODIFIED

NOTE:

BAR AND PLATE AT PILE HEAD NOT SHOWN FOR CLARITY

STEEL PILE DATA

PILE LOCATION	SPLAY (PERPENDICULAR TO HORIZONTAL)	BATTER (PERPENDICULAR TO VERTICAL FACE OF SEAWALL)	TOP OF PILE ELEVATION (FT)	BOTTOM OF PILE ELEVATION (FT)	ESTIMATED LENGTH OF PILE (FT)
P1	15° WEST	35°	–6.59	–85	96
P2	15° EAST	35°	–6.59	–85	96
P3	15° WEST	25°	–6.59	–85	87
P4	15° EAST	25°	–6.59	–85	87
P5	15° WEST	30°	–6.03	–85	91
P6	15° EAST	25°	–6.01	–85	87
P7	15° WEST	30°	–6.00	–85	91
P8	15° EAST	25°	–5.98	–85	87
P9	15° WEST	35°	–5.97	–85	96
P10	15° EAST	35°	–5.95	–85	97
P11	15° WEST	25°	–5.93	–85	87
P12	15° EAST	25°	–5.92	–85	87
P13	15° WEST	35°	–5.90	–85	97
P14	15° EAST	35°	–5.89	–85	97
P15	15° WEST	25°	–5.87	–85	87
P16	15° EAST	25°	–5.85	–85	87
P17	15° WEST	35°	–5.84	–85	97
P18	15° EAST	35°	–5.82	–85	97
P19	15° WEST	25°	–5.81	–85	87
P20	15° EAST	25°	–5.79	–85	87
P21	15° WEST	35°	–5.78	–85	97
P22	15° EAST	35°	–5.78	–85	97
P23	15° WEST	25°	–5.77	–85	87
P24	15° EAST	25°	–5.76	–85	87
P25	15° WEST	35°	–5.74	–85	97
P26	15° EAST	35°	–5.73	–85	97
P27	15° WEST	25°	–5.72	–85	87
P28	15° EAST	25°	–5.71	–85	87
P29	15° WEST	35°	–5.70	–85	97
P30	15° EAST	35°	–5.68	–85	97
P31	15° WEST	25°	–5.67	–85	88
P32	15° EAST	25°	–5.66	–85	88
P33	15° WEST	35°	–5.65	–85	97
P34	15° EAST	35°	–5.64	–85	97
P35	15° WEST	25°	–5.63	–85	88
P36	15° EAST	25°	–5.63	–85	88
P37	15° WEST	35°	–5.89	–85	97
P38	15° EAST	35°	–5.89	–85	97
P39	15° WEST	25°	–5.89	–85	87
P40	15° EAST	25°	–5.89	–85	87
P41	0	0	2.92	–85	88
P42	0	0	2.92	–85	88
P43	0	0	2.92	–85	88
P44	0	0	2.92	–85	88
P45	0	0	3.05	–85	88
P46	0	0	3.05	–85	88
P47	0	0	3.05	–85	88
P48	0	0	3.05	–85	88
P49	0	0	3.53	–85	89
P50	0	0	3.53	–85	89
P51	0	0	3.53	–85	89
P52	0	0	1.07	–85	86
P53	0	0	1.07	–85	86

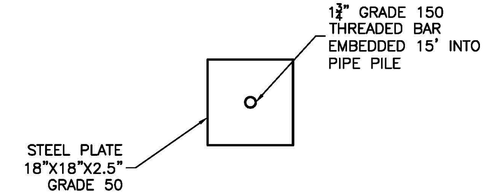
RFI 94, 11/5/10 – P1 & P2 INSTALLED AT 26°

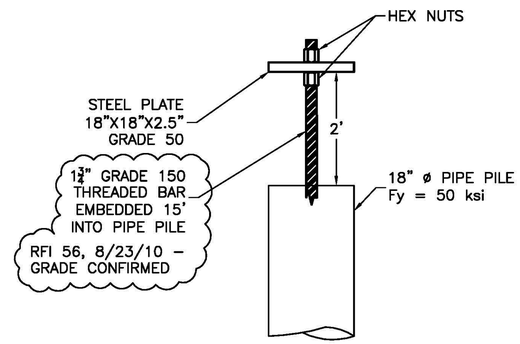
RFI 93, 11/3/10 P5 INSTALLED AT 30° DUE TO PIPE PILE CONFLICT

PER RFI 78

NOTES:

1. PIPE PILES WILL BE DRIVEN TO REFUSAL BASED ON THE DRIVING CRITERIA ESTABLISHED AS A RESULT OF THE STATIC LOAD TESTING.
2. DRIVING CRITERIA SHALL BE ESTABLISHED BY THE CONTRACTOR AND APPROVED BY THE CONTRACTING OFFICER.
   RFI 82 – DRIVING CRITERIA: 10 BLOWS/INCH FOR 2 CONSECUTIVE INCHES (120 BPF)
3. CONCRETE USED IN THE PIPE PILES SHALL HAVE A MINIMUM 28–DAY COMPRESSIVE STRENGTH OF 4000 PSI.
4. CONTRACTOR SHALL PROVIDE DRIVING TIPS SUITABLE TO ALLOW DRIVING OF THE PILES TO THE DEPTHS AND CAPACITIES INDICATED ON THE PLANS.
5. REFER TO SHEET G1 GENERAL NOTES.
6. TOP OF PILE ELEVATIONS ARE BASED ON EXISTING NORTH PLAZA ELEVATIONS.
7. PILE BAR AND PLATE SHALL BE INSTALLED IMMEDIATELY AFTER CONCRETE PLACEMENT.
8. A MINIMUM OF 2 CENTRALIZERS SHALL BE USED ON THE PILE BARS.





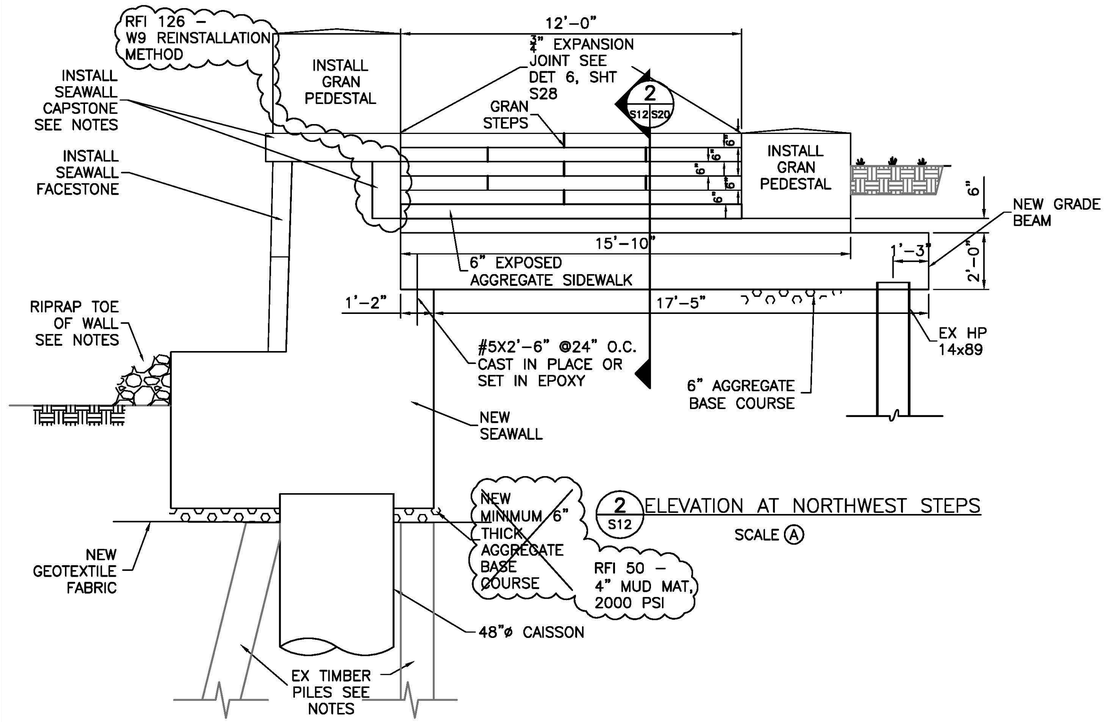
3 S11 DETAILS OF STEEL PLATE AND BAR FOR PIPE PILE

RFI 33, 3/9/10 – FOR BATTERED PILES AS SHOWN ON S17/D6 – NOT VERTICAL PIPE PILES IN TRANSITION ZONES

1 0 1 2 3
SCALE OF FEET

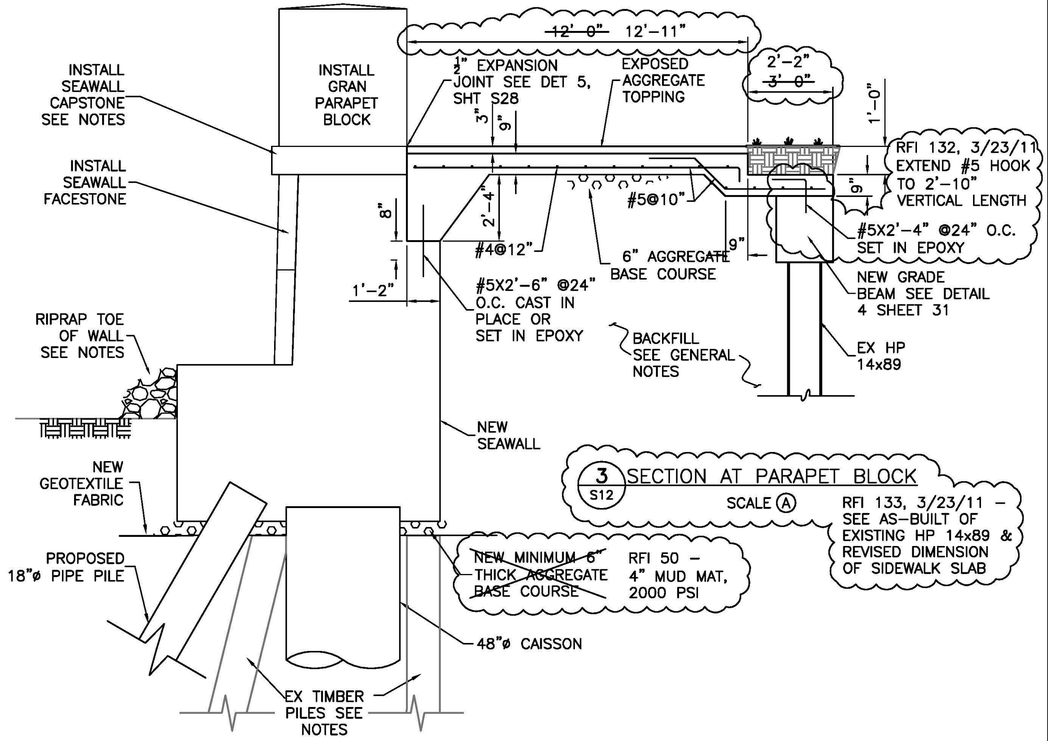
DESIGNED: DW, MD DRAWN: NSF, MD TECH. REVIEW: DW, JG DATE: 6–15–09	SUB SHEET NO. S11	TITLE OF SHEET STEEL PILE DETAILS AND SCHEDULE THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 29 OF 54

11/29/11 10:07 JMMKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\STRUC\S11 PIPE PILE.DWG



2 S12 ELEVATION AT NORTHWEST STEPS

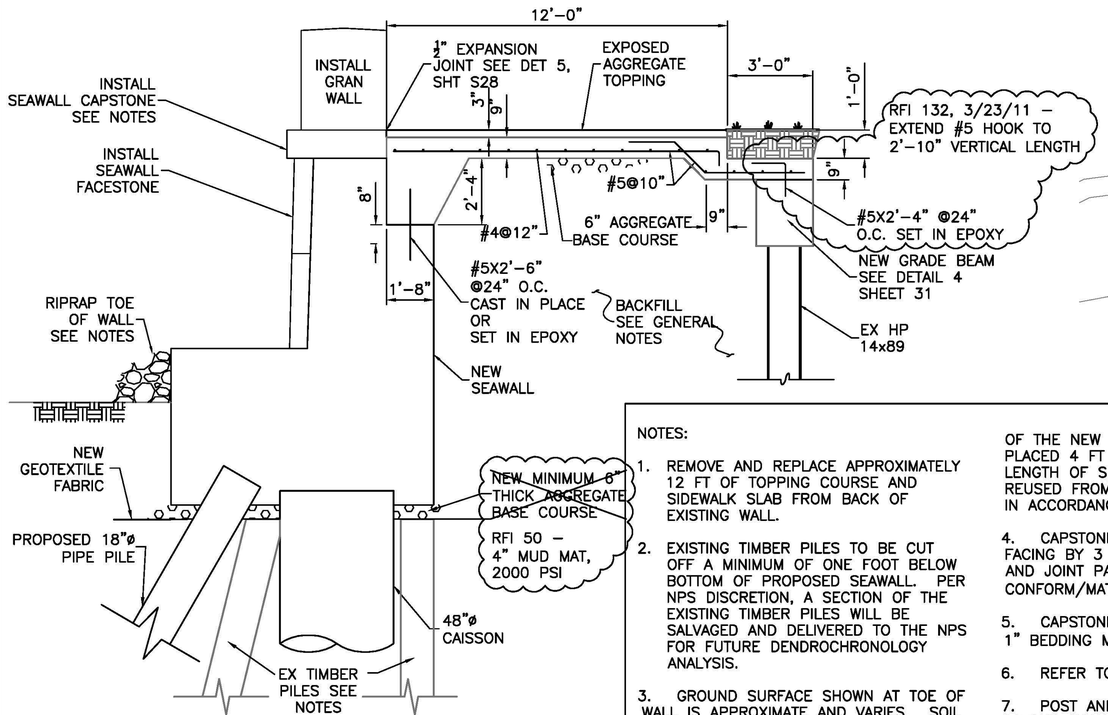
SCALE Ⓐ



3 S12 SECTION AT PARAPET BLOCK

SCALE Ⓐ

RFI 133, 3/23/11 – SEE AS–BUILT OF EXISTING HP 14x89 & REVISED DIMENSION OF SIDEWALK SLAB

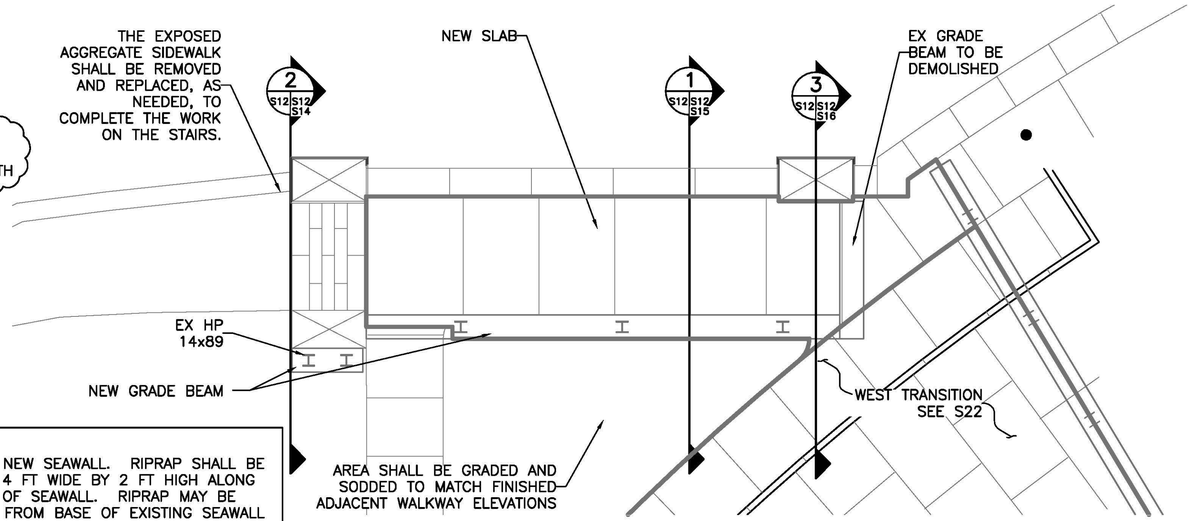


1 S12 SECTION AT SIDEWALK ADJACENT TO SEAWALL

SCALE Ⓐ

NOTES:

1. REMOVE AND REPLACE APPROXIMATELY 12 FT OF TOPPING COURSE AND SIDEWALK SLAB FROM BACK OF EXISTING WALL.
2. EXISTING TIMBER PILES TO BE CUT OFF A MINIMUM OF ONE FOOT BELOW BOTTOM OF PROPOSED SEAWALL. PER NPS DISCRETION, A SECTION OF THE EXISTING TIMBER PILES WILL BE SALVAGED AND DELIVERED TO THE NPS FOR FUTURE DENDROCHRONOLOGY ANALYSIS.
3. GROUND SURFACE SHOWN AT TOE OF WALL IS APPROXIMATE AND VARIES. SOIL SHALL BE GRADED SUCH THAT GROUND SURFACE IS 2 FT BELOW THE TOP OF TOE OF THE NEW SEAWALL. RIPRAP SHALL BE PLACED 4 FT WIDE BY 2 FT HIGH ALONG LENGTH OF SEAWALL. RIPRAP MAY BE REUSED FROM BASE OF EXISTING SEAWALL IN ACCORDANCE WITH 31 37 00.
4. CAPSTONE SHALL OVERHANG ASHLAR FACING BY 3 INCHES. THE STONE LAYOUT AND JOINT PATTERN SHALL CONFORM/MATCH EXISTING.
5. CAPSTONE SHALL BE SET ON MINIMUM 1" BEDDING MORTAR
6. REFER TO SHEET G1 GENERAL NOTES.
7. POST AND CHAIN CONFIGURATION AND LAYOUT SHALL BE REINSTALLED TO EXISTING CONDITIONS PER DETAIL 4 ON SHT D1.



PLAN @ NORTHWEST STEPS

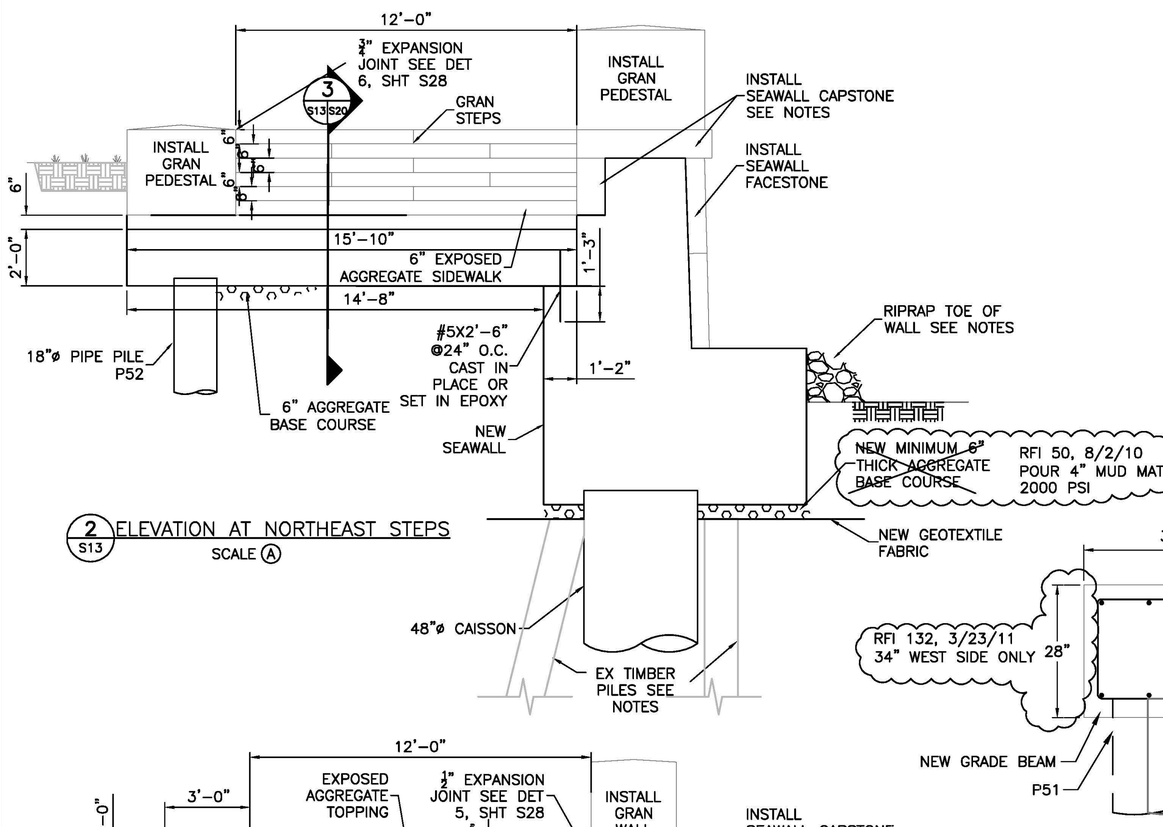
SCALE Ⓑ

SCALE Ⓐ 2 0 2 4 6 SCALE OF FEET

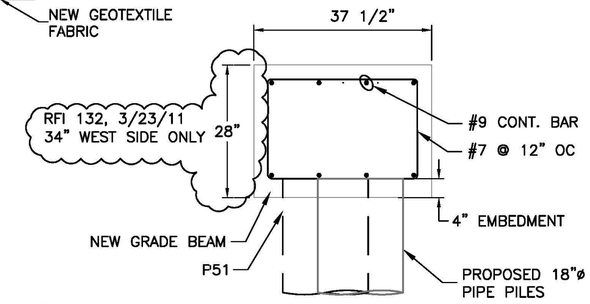
SCALE Ⓑ 8 0 8 16 SCALE OF FEET

DESIGNED: DW, MD	SUB SHEET NO. S12	TITLE OF SHEET NORTHWEST WALL AND STAIRS	DRAWING NO. 808 25005A
CADD DW, MD		THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	PMIS/PKG NO. 128232
TECH. REVIEW: JG, DW			SHEET 30 OF 54
DATE: 6–15–09			

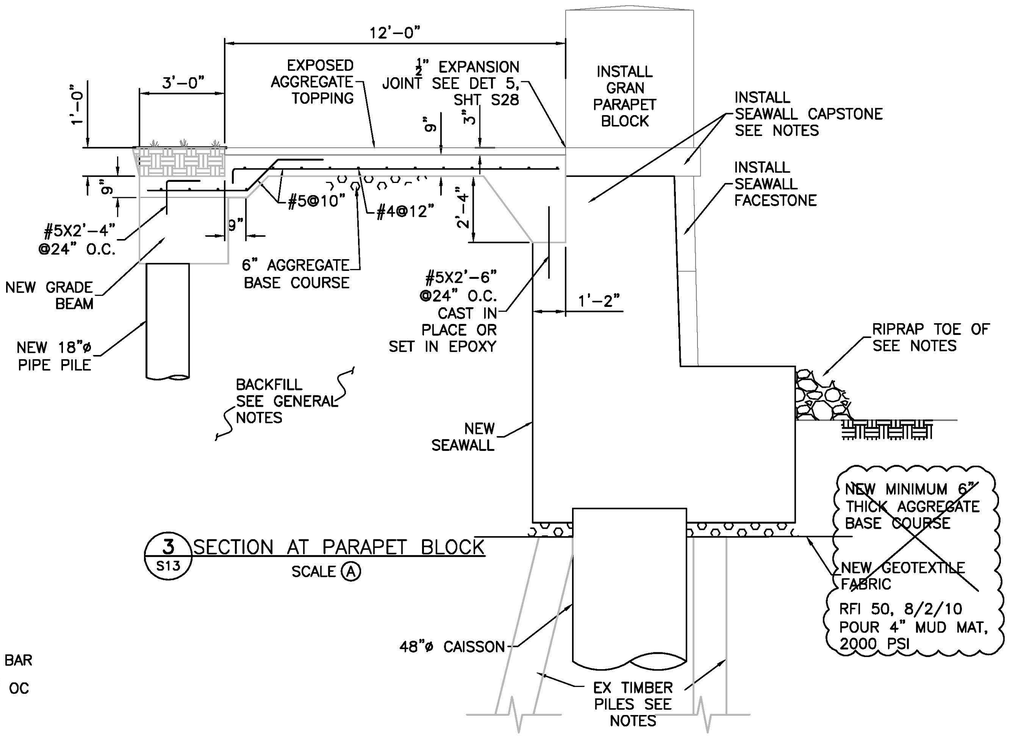
11/18/11 14:00 JMIKITKA R18 G:\2009\JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\STRUC\S12 SEAWALL.DWG



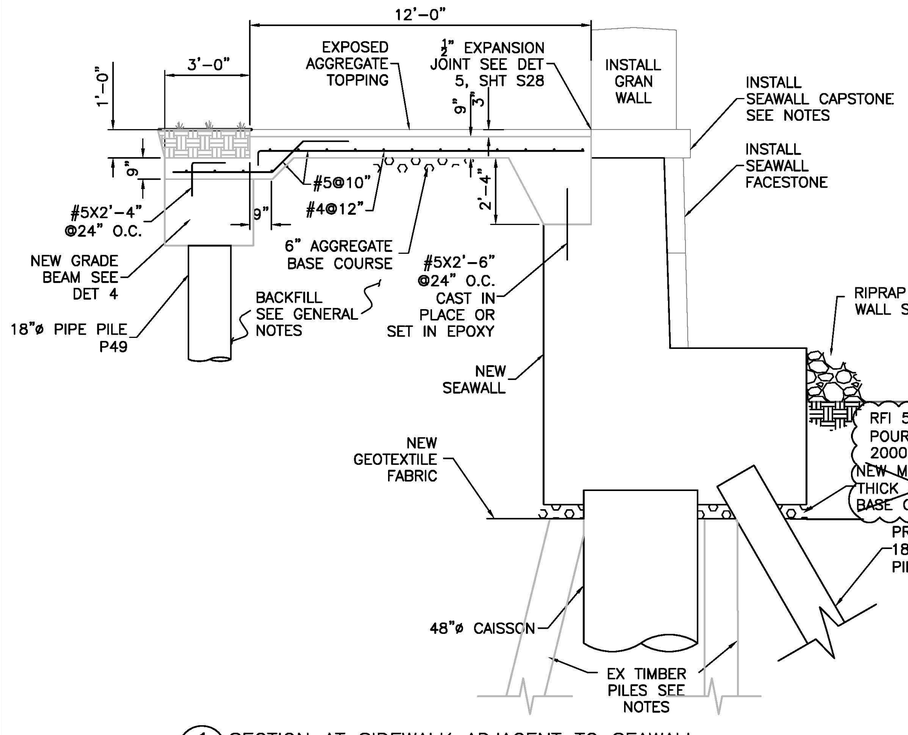
2 S13 ELEVATION AT NORTHEAST STEPS
SCALE Ⓐ



4 S13 NEW GRADE BEAM DETAIL
NO SCALE



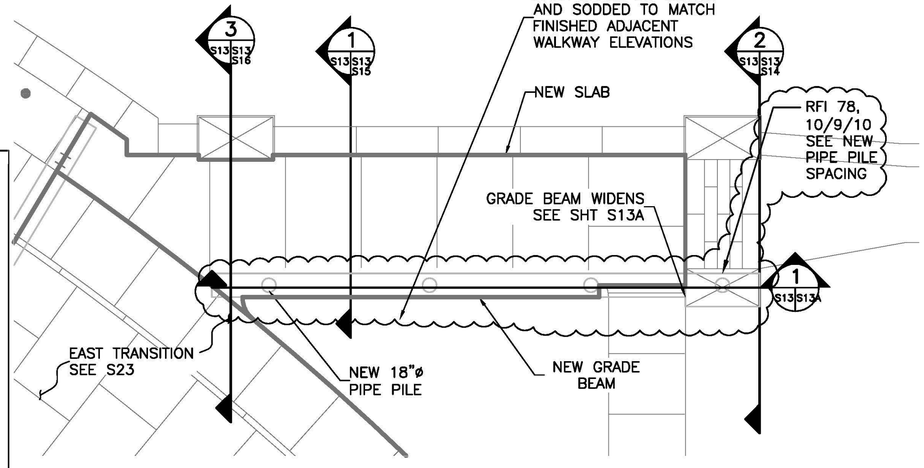
3 S13 SECTION AT PARAPET BLOCK
SCALE Ⓐ



1 S13 SECTION AT SIDEWALK ADJACENT TO SEAWALL
SCALE Ⓐ

NOTES:

1. REMOVE AND REPLACE APPROXIMATELY 12 FT OF TOPPING COURSE AND SIDEWALK SLAB FROM BACK OF EXISTING WALL.
2. EXISTING TIMBER PILES TO BE CUT OFF A MINIMUM OF ONE FOOT BELOW PROPOSED SEAWALL. PER NPS DISCRETION, A SECTION OF THE EXISTING TIMBER PILES WILL BE SALVAGED AND DELIVERED TO THE NPS FOR FUTURE DENDROCHRONOLOGY ANALYSIS.
3. GROUND SURFACE SHOWN AT TOE OF WALL IS APPROXIMATE AND VARIES. SOIL SHALL BE GRADED SUCH THAT GROUND SURFACE IS 2 FT BELOW THE TOP OF TOE OF THE NEW SEAWALL. RIPRAP SHALL BE PLACED 4 FT WIDE BY 2 FT HIGH ALONG LENGTH OF SEAWALL. RIPRAP MAY BE REUSED FROM BASE OF EXISTING SEAWALL IN ACCORDANCE WITH 31 37 00.
4. CAPSTONE SHALL OVERHANG ASHLAR FACING BY 3 INCHES. THE STONE LAYOUT AND JOINT PATTERN SHALL CONFORM/MATCH EXISTING.
5. CAPSTONE SHALL BE SET ON MINIMUM 1" BEDDING MORTAR.
6. REFER TO SHEET G1 FOR GENERAL NOTES.
7. POST AND CHAIN CONFIGURATION AND LAYOUT SHALL BE REINSTALLED TO EXISTING CONDITIONS PER DETAIL 4 ON SHT D1.



PLAN AT NORTHEAST STEPS
SCALE Ⓑ

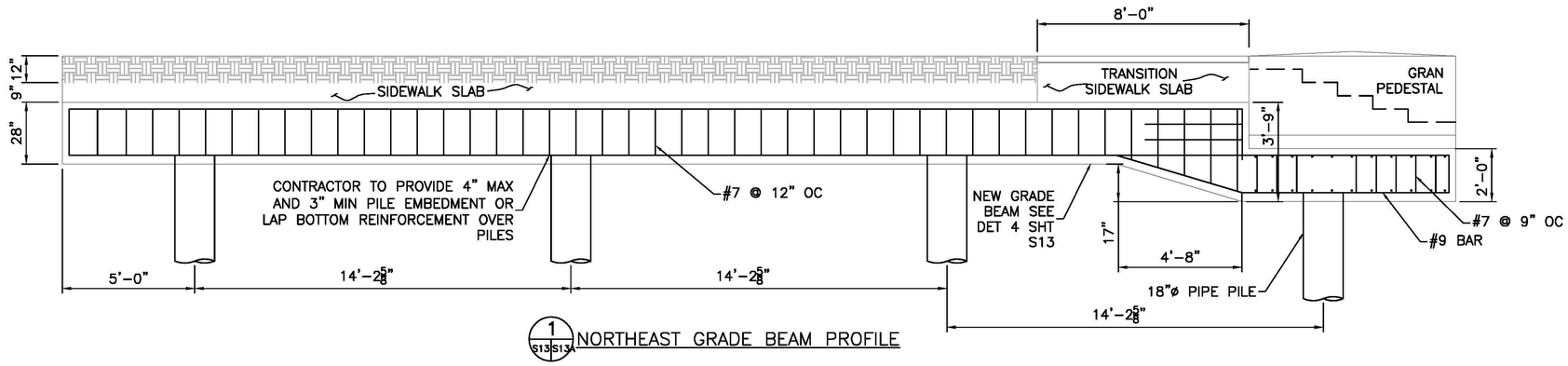
SCALE Ⓐ 2 0 2 4 6
SCALE OF FEET

SCALE Ⓑ 8 0 8 16
SCALE OF FEET

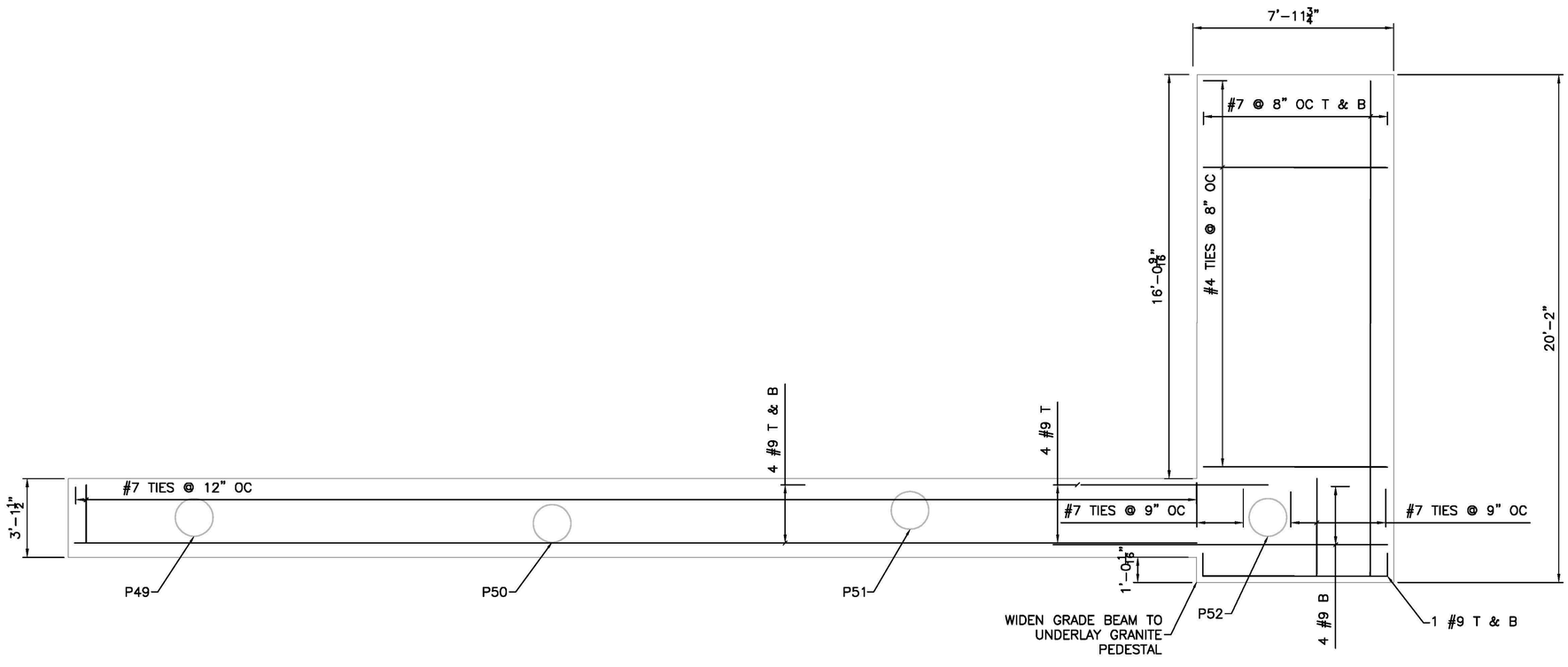
2 02-25-11 REVISIONS TO EAST GRADE BEAM

DESIGNED: DW, MD CADD DW, MD TECH. REVIEW: JG, DW DATE: 4–2–09	SUB SHEET NO. S13	TITLE OF SHEET NORTHEAST WALL AND STAIRS THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 31 OF 54

3/12/12 14:54 JMIKITKA R18 G:\2008\JOBS\09150062_JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\STRUC\S13 SEAWALL.DWG



1 S13|S13A NORTHEAST GRADE BEAM PROFILE



2 S13A NORTHEAST GRADE BEAM REINFORCEMENT PLAN VIEW

NOTES:

SIDEWALK, SEAWALL, GRANITE PEDESTALS, AND STAIRS ARE NOT SHOWN FOR CLARITY

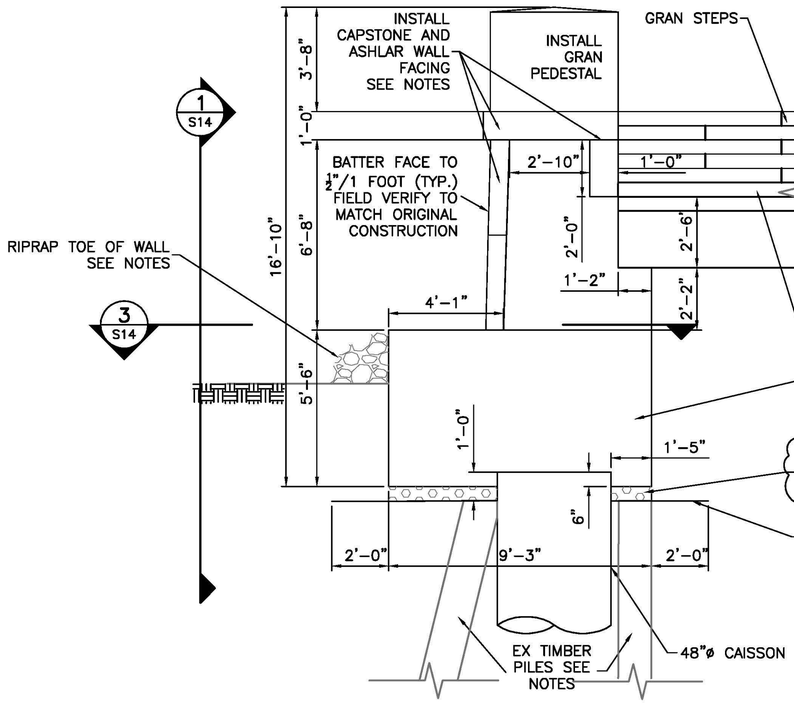
PILE LOCATIONS ARE APPROXIMATE AS PER AS-BUILT PILES DRAWING PROVIDED BY CLARK CONSTRUCTIO GROUP, LLC DATED 10/29/2010.

2 0 2 4 6
SCALE OF FEET

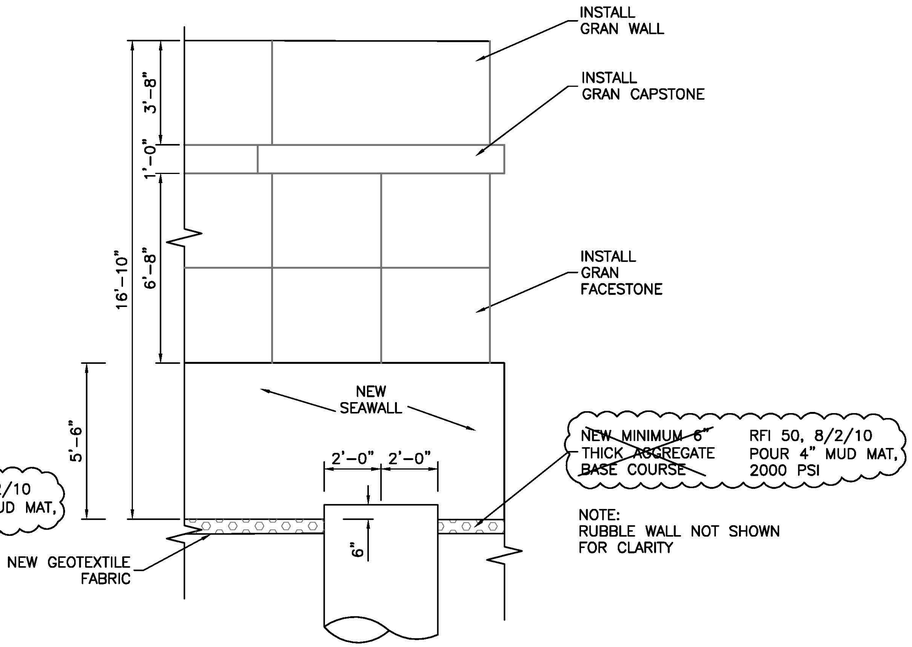
ADDED PER FRP 016, 3/7/11

DESIGNED: DW, PS, LD CADD: PS TECH. REVIEW: GA, DW DATE: 02-25-11	SUB SHEET NO. S13A	TITLE OF SHEET NORTHEAST GRADE BEAM TRANSISTION THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 31A OF 54

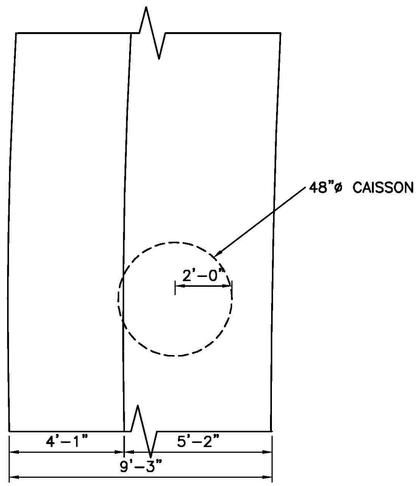
3/12/12 14:52 JMKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\STRUC\S13A EAST GRADE BEAM.DWG



2 S12 S13 S14 SECTION AT STEPS



1 S14 ELEVATION VIEW AT STEPS – TYPICAL



NOTE:
ASHLAR WALL FACING STONES
NOT SHOWN FOR CLARITY

3 S14 SECTION AT NORTHWEST STEPS – TYPICAL

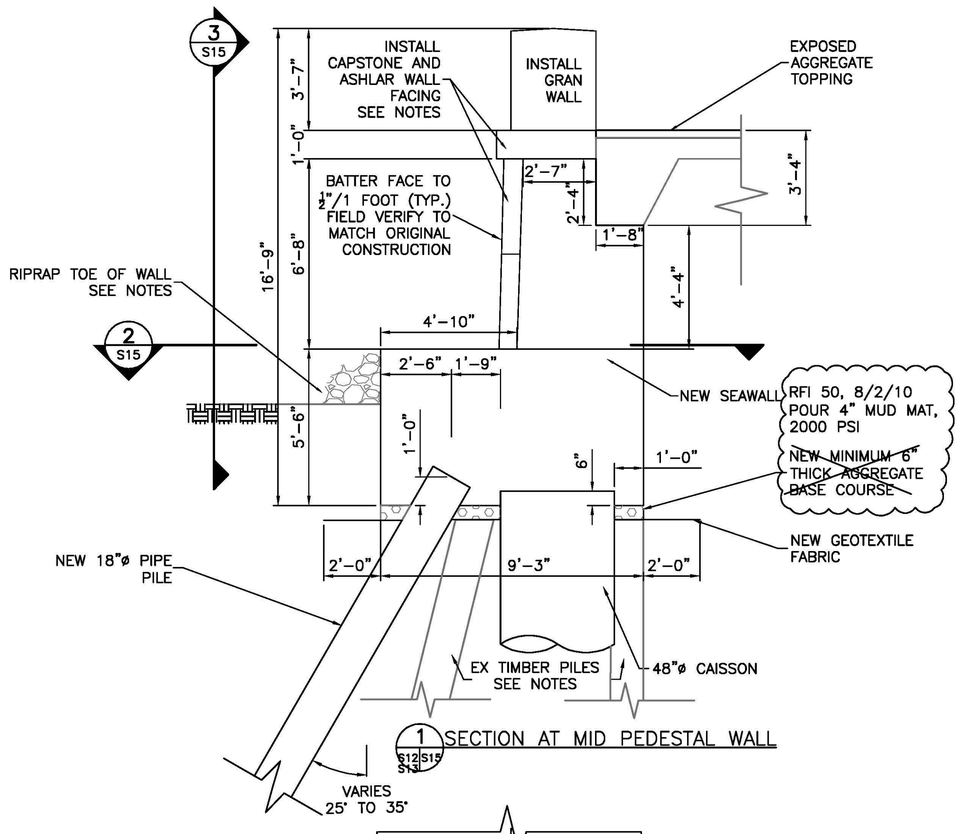
NOTES:

1. EXISTING TIMBER PILES TO BE CUT OFF A MINIMUM OF ONE FOOT BELOW BOTTOM OF PROPOSED SEAWALL. PER NPS DISCRETION, A SECTION OF THE EXISTING TIMBER PILES WILL BE SALVAGED AND DELIVERED TO THE NPS FOR FUTURE DENDROCHRONOLOGY ANALYSIS.
3. GROUND SURFACE SHOWN AT TOE OF WALL IS APPROXIMATE AND VARIES. SOIL SHALL BE GRADED SUCH THAT GROUND SURFACE IS 2 FT BELOW THE TOP OF TOE OF THE NEW SEAWALL. RIPRAP SHALL BE PLACED 4 FT WIDE BY 2 FT HIGH ALONG LENGTH OF SEAWALL. RIPRAP MAY BE REUSED FROM BASE OF EXISTING SEAWALL IN ACCORDANCE WITH 31 37 00.
4. CAPSTONE SHALL OVERHANG ASHLAR FACING BY 3 INCHES. THE STONE LAYOUT AND JOINT PATTERN SHALL CONFORM/MATCH EXISTING.
5. CAPSTONE SHALL BE SET ON MINIMUM 1" BEDDING MORTAR.
6. REFER TO SHEET G1 GENERAL NOTES.

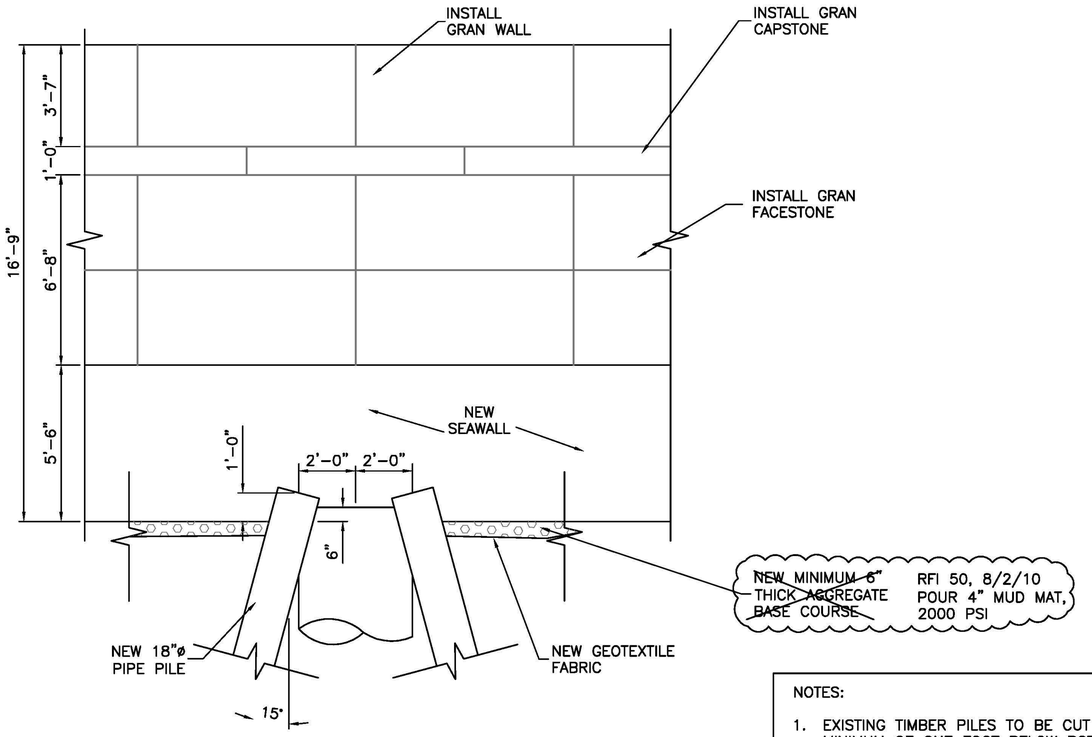
2 0 2 4 6
SCALE OF FEET

DESIGNED: DW, MD, GA, RD CADD: NSF, MD TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. S14	TITLE OF SHEET SEAWALL DETAILS AT STEPS THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 32 OF 54

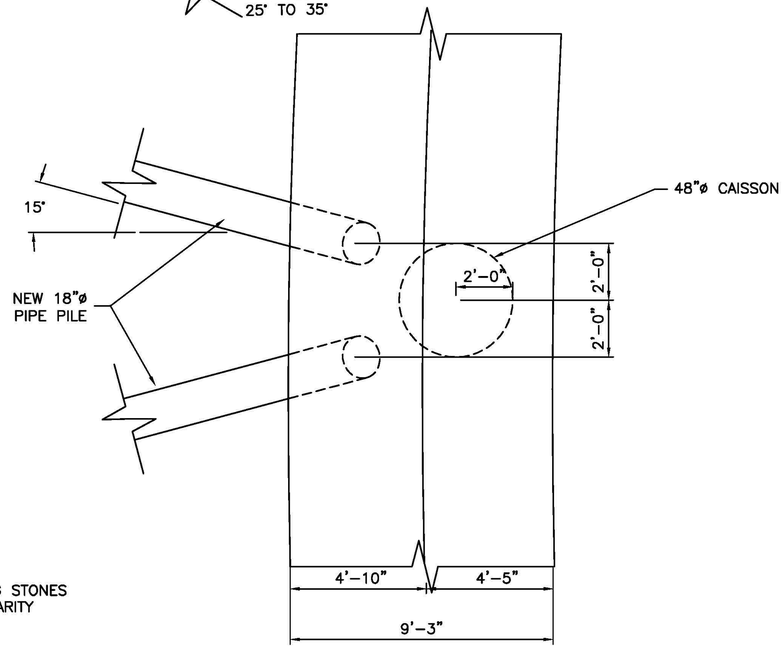
11/18/11 15:45 JMIKITKA R18 G:\2009\JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\STRUC\S14 SEAWALL.DWG



1 S12 S15 S13 SECTION AT MID PEDESTAL WALL



3 S15 ELEVATION VIEW AT MID PEDESTAL WALL – TYPICAL



2 S15 SECTION AT MID PEDESTAL WALL – TYPICAL

OTE:
SHLAR WALL FACING STONES
OT SHOWN FOR CLARITY

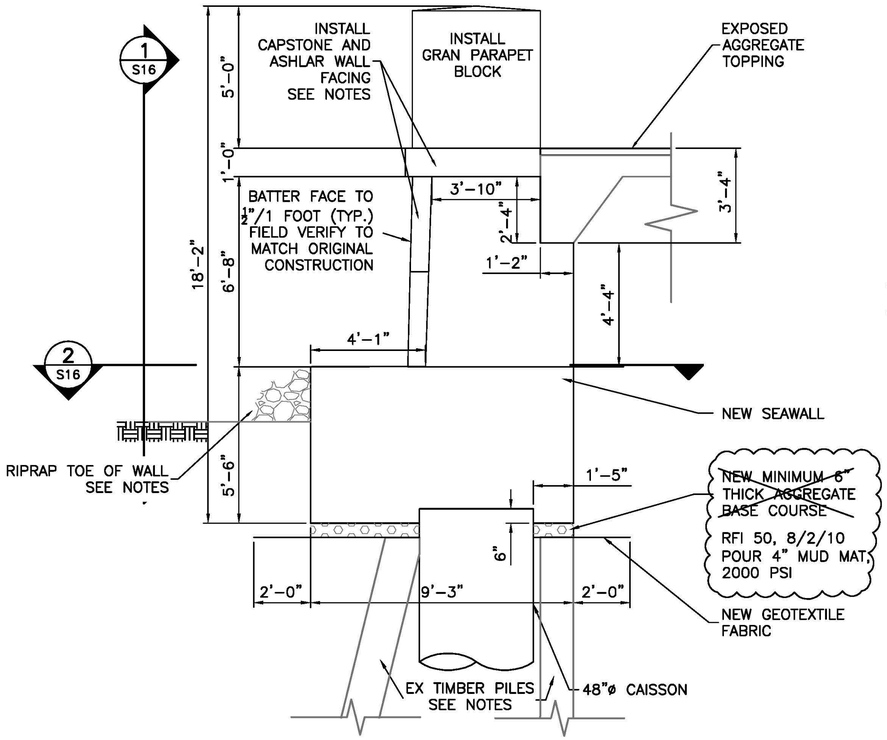
NOTES:

1. EXISTING TIMBER PILES TO BE CUT OFF A MINIMUM OF ONE FOOT BELOW BOTTOM OF PROPOSED SEAWALL. PER NPS DISCRETION, A SECTION OF THE EXISTING TIMBER PILES WILL BE SALVAGED AND DELIVERED TO THE NPS FOR FUTURE DENDROCHRONOLOGY ANALYSIS.
2. GROUND SURFACE SHOWN AT TOE OF WALL IS APPROXIMATE AND VARIES. SOIL SHALL BE GRADED SUCH THAT GROUND SURFACE IS 2 FT BELOW THE TOP OF TOE OF THE NEW SEAWALL. RIPRAP SHALL BE PLACED 4 FT WIDE BY 2 FT HIGH ALONG LENGTH OF SEAWALL. RIPRAP MAY BE REUSED FROM BASE OF EXISTING SEAWALL IN ACCORDANCE WITH 31 37 00.
3. CAPSTONE SHALL OVERHANG ASHLAR FACING BY 3 INCHES. THE STONE LAYOUT AND JOINT PATTERN SHALL CONFORM/MATCH EXISTING.
4. CAPSTONE SHALL BE SET ON MINIMUM 1" BEDDING MORTAR.
5. REFER TO SHEET G1 GENERAL NOTES.
6. PIPE PILE BAR AND PLATE NOT SHOWN FOR CLARITY.

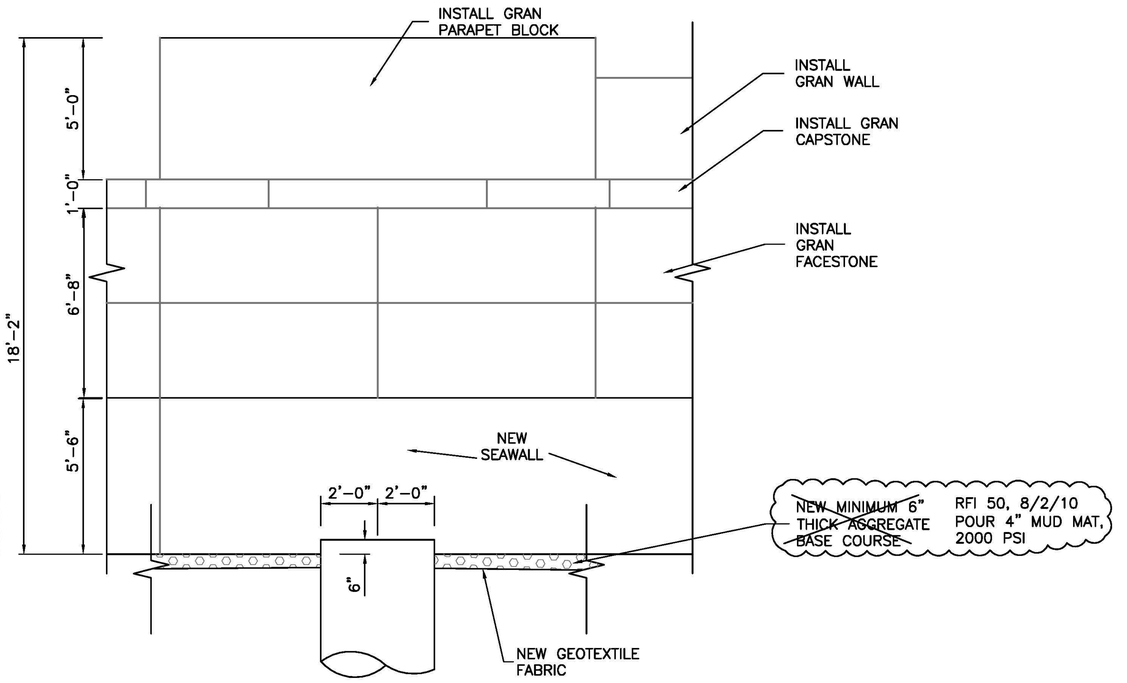
2 0 2 4 6
SCALE OF FEET

DESIGNED: DW, MD, GA, RD CADD: NSF, MD TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. S15	TITLE OF SHEET SEAWALL DETAILS AT MID PEDESTAL WALL THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 33 OF 54

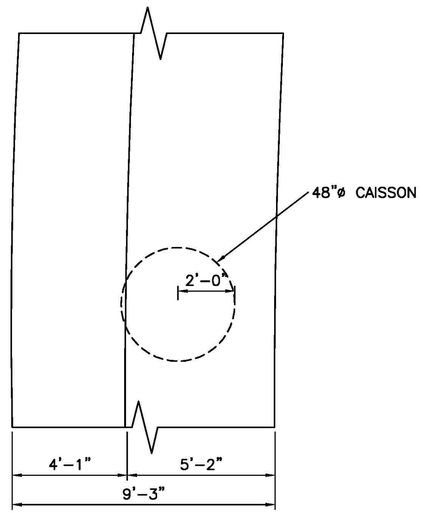
11/18/11 15:47 JMIKITKA R18 G:\2008JOBS\09150062_JEFFERSON_MEMORIAL_TITLE_III_SERVICES\CADD\AS_BUILTS\THAE\128232\STRUC\S15_SEAWALL.DWG



3 S12 S13 S16 SECTION AT PARAPET BLOCK



1 S16 ELEVATION VIEW AT PARAPET BLOCK – TYPICAL



NOTE:
ASHLAR WALL FACING STONES NOT SHOWN FOR CLARITY

2 S16 SECTION AT PARAPET BLOCK – TYPICAL

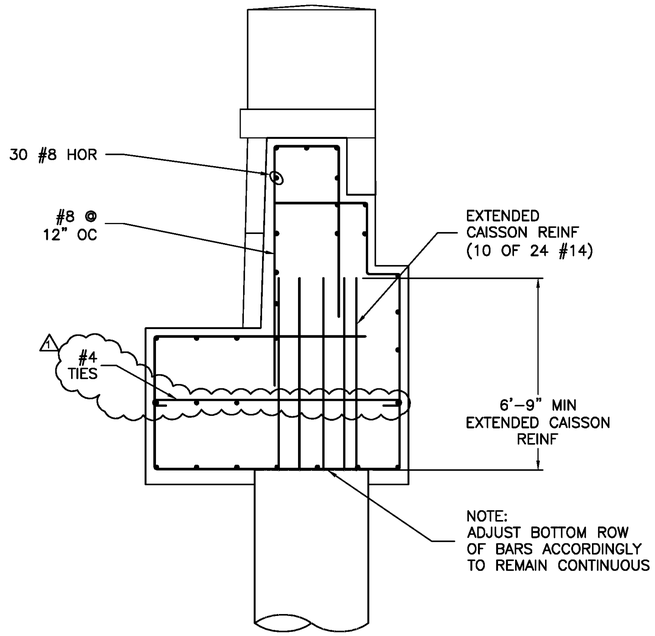
NOTES:

1. EXISTING TIMBER PILES TO BE CUT OFF A MINIMUM OF ONE FOOT BELOW BOTTOM OF PROPOSED SEAWALL. PER NPS DISCRETION, A SECTION OF THE EXISTING TIMBER PILES WILL BE SALVAGED AND DELIVERED TO THE NPS FOR FUTURE DENDROCHRONOLOGY ANALYSIS.
2. GROUND SURFACE SHOWN AT TOE OF WALL IS APPROXIMATE AND VARIES. SOIL SHALL BE GRADED SUCH THAT GROUND SURFACE IS 2 FT BELOW THE TOP OF TOE OF THE NEW SEAWALL. RIPRAP SHALL BE PLACED 4 FT WIDE BY 2 FT HIGH ALONG LENGTH OF SEAWALL. RIPRAP MAY BE REUSED FROM BASE OF EXISTING SEAWALL IN ACCORDANCE WITH 31 37 00.
3. CAPSTONE SHALL OVERHANG ASHLAR FACING BY 3 INCHES. THE STONE LAYOUT AND JOINT PATTERN SHALL CONFORM/MATCH EXISTING.
4. CAPSTONE SHALL BE SET ON MINIMUM 1" BEDDING MORTAR.
5. REFER TO SHEET G1 GENERAL NOTES.

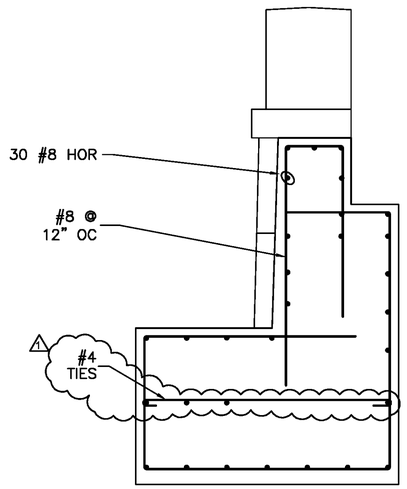
2 0 2 4 6
SCALE OF FEET

DESIGNED: DW, MD, GA, RD CADD: NSF, MD TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. S16	TITLE OF SHEET SEAWALL DETAILS AT PARAPET BLOCK THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 34 OF 54

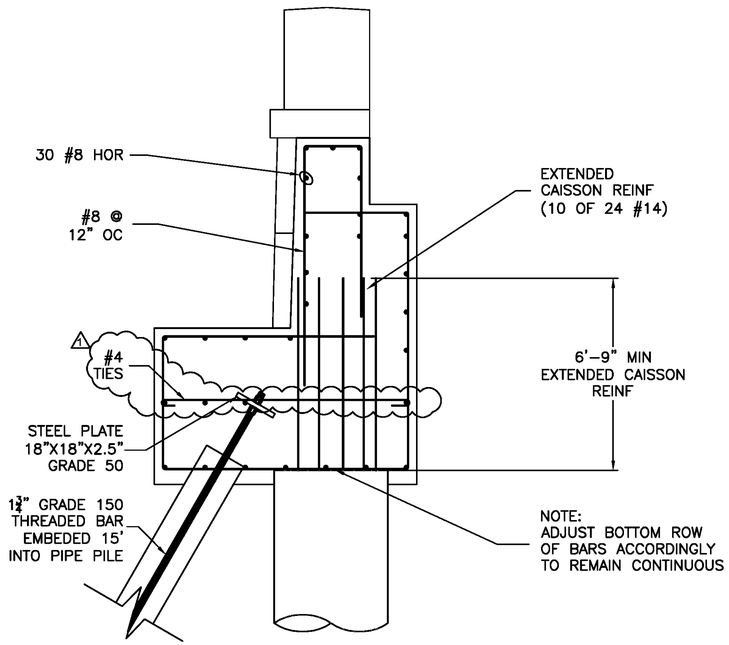
11/18/11 15:59 JMIKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\STRUC\S16 SEAWALL.DWG



1 S17 SECTION AT NORTHEAST AND NORTHWEST STEPS

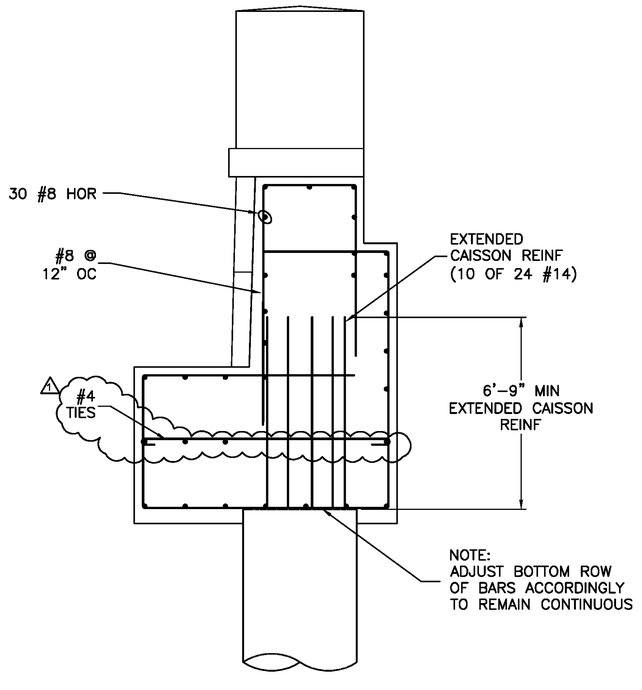


4 S17 SECTION VIEW AT MIDWALL ADJACENT TO SIDEWALK



6 S17 SECTION AT SIDEWALK ADJACENT TO SEAWALL

1 RFI 100
#4 TIES SHOWN IN DETAILS 1, 4, 5, AND 6 WITH 180° HOOKS WILL BE MODIFIED TO ONE 180° HOOK AND ONE 90° HOOK



5 S17 SECTION AT PARAPET BLOCK

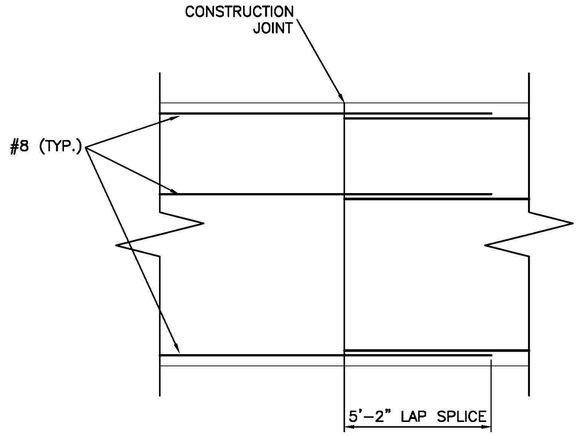
NOTES:

1. BAR LENGTHS AND DISTRIBUTION ARE FOR REFERENCE ONLY. ACTUAL BEND RADII AND MINIMUM LENGTH AND SPLICE REQUIREMENTS TO BE DEFINED BY DETAILER.
2. REFER TO SHEET G1 GENERAL NOTES.

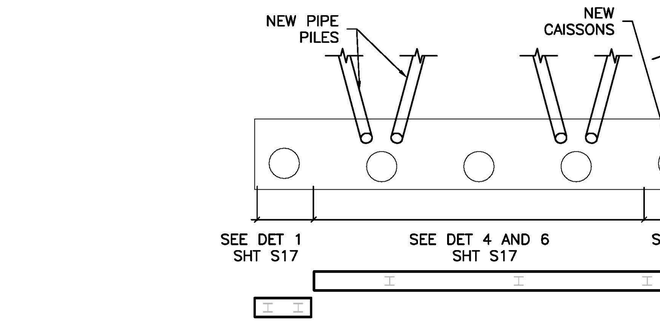
2 0 2 4 6
SCALE OF FEET

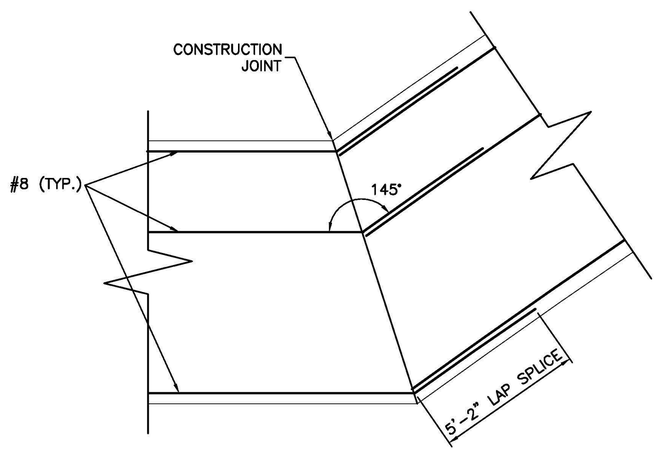
DESIGNED: DW, MD, GA, RD CADD NSF, MD TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. S17	TITLE OF SHEET SEAWALL REINFORCING DETAILS AT PEDESTAL WALL THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 35 OF 54

11/29/11 10:59 JMIKITKA R18 G:\2009\OBS\091500662 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\STRUC\S17 SEAWALL.DWG



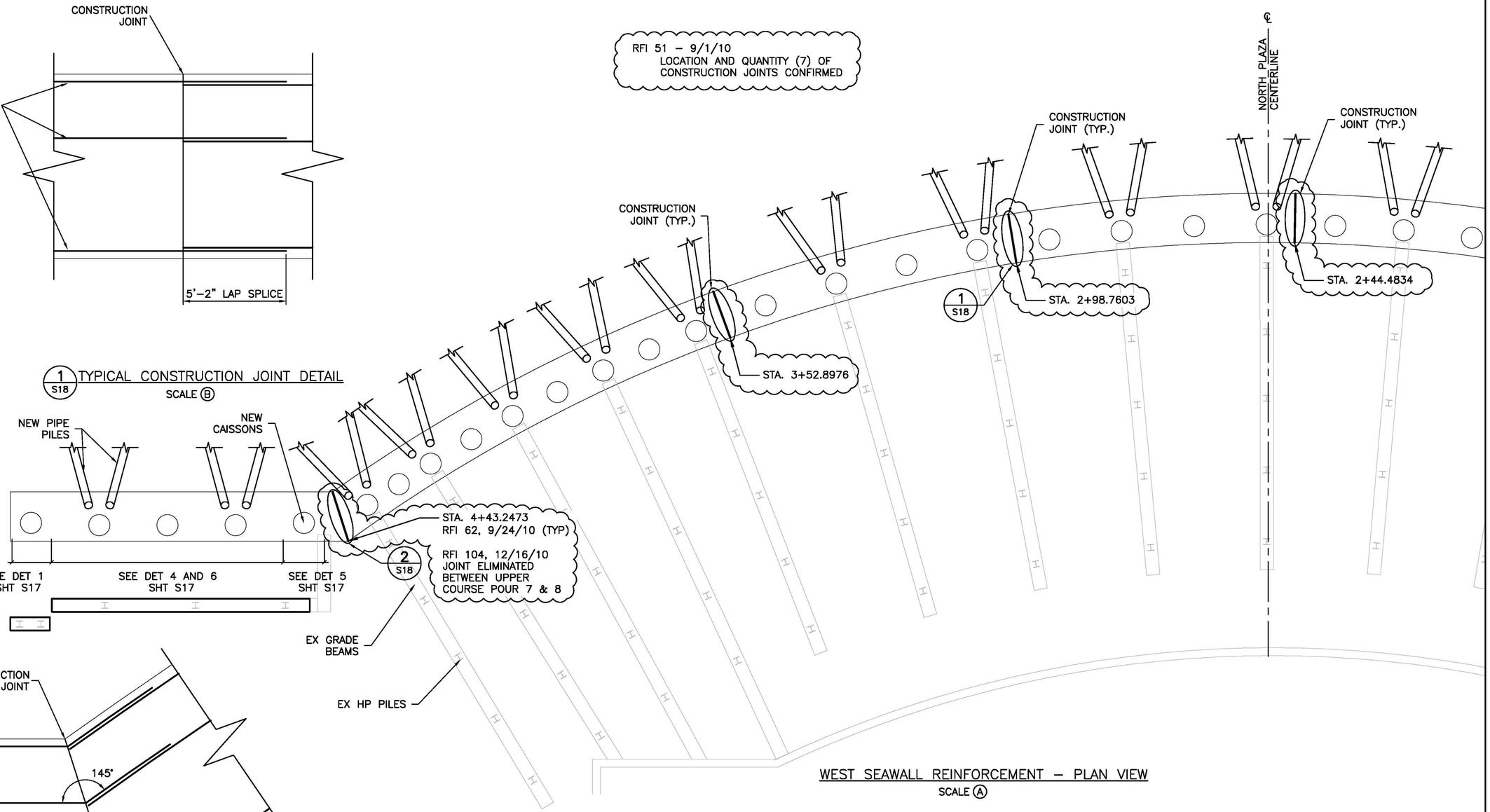
1/S18 TYPICAL CONSTRUCTION JOINT DETAIL
SCALE (B)





2/S18 TYPICAL CONSTRUCTION JOINT DETAIL AT CORNERS
SCALE (B)

RFI 51 – 9/1/10
LOCATION AND QUANTITY (7) OF CONSTRUCTION JOINTS CONFIRMED



WEST SEAWALL REINFORCEMENT – PLAN VIEW
SCALE (A)

SCALE (A) 10 0 10 20
SCALE OF FEET

SCALE (B) 2 0 2 4 6
SCALE OF FEET

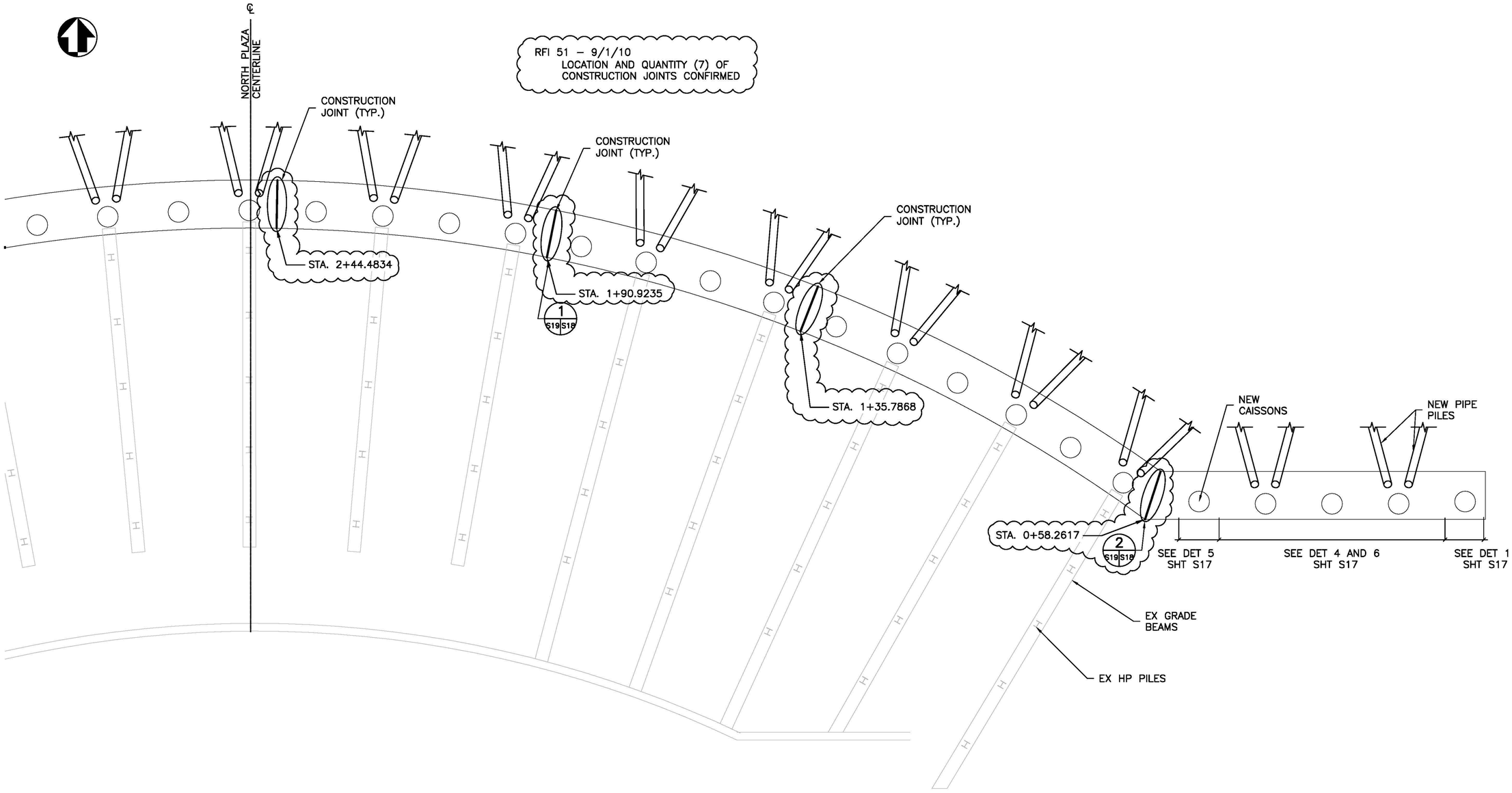
NOTES:

1. NOT ALL BARS ARE SHOWN FOR CLARITY.
2. ALL CONSTRUCTION JOINTS WILL HAVE TIE BARS SIZE #4, LENGTH 30" (15"+15"), SPACING 18", PLACED AT THE MIDDLE OF SLAB THICKNESS.

DESIGNED: DW, JG, HR CADD NSF, MD TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. S18	TITLE OF SHEET SEAWALL PLAN VIEW WEST THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 36 OF 54

11/22/11 10:08 JMIKITKA R18 G:\2009\JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THAE\128232\STRUC\S18 REINFORCING.DWG XREFS: ..\BASES\XS-RUBBLE.DWG; ..\BASES\XC-BEAMS.DWG;

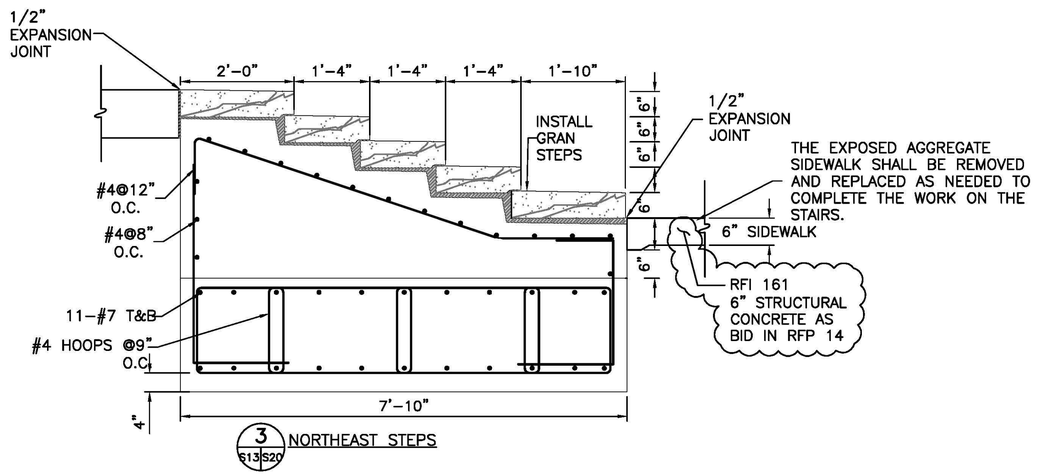
11/22/11 10:25 JMIKITKA R18 G:\2009\JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\STRUC\S19 REINFORCING.DWG XREFS: ..\BASES\XS-RUBBLE.DWG; ..\BASES\XC-BEAMS.DWG;



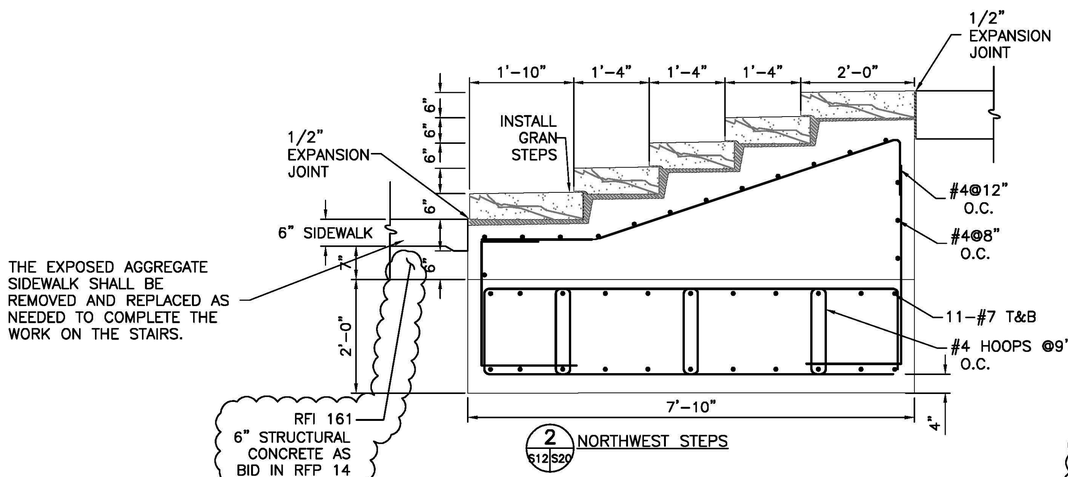
EAST SEAWALL REINFORCEMENT – PLAN VIEW

10 0 10 20
SCALE OF FEET

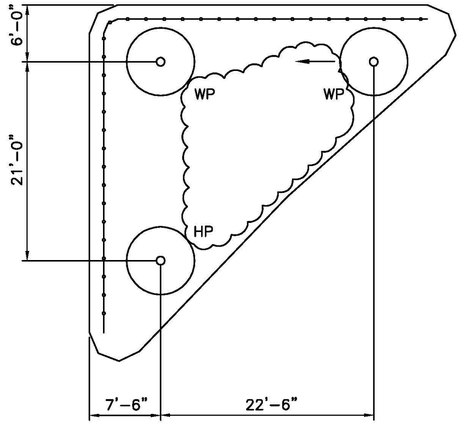
DESIGNED: DW, JG, HR CADD: NSF, MD TECH. REVIEW: DW, JG DATE: 6–15–09	SUB SHEET NO. S19	TITLE OF SHEET SEAWALL PLAN VIEW EAST THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 37 OF 54



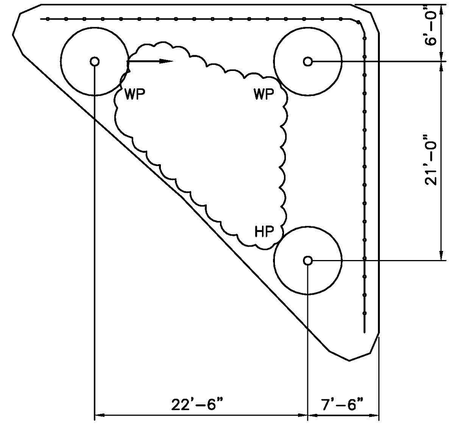
3 S13 S20 NORTHEAST STEPS



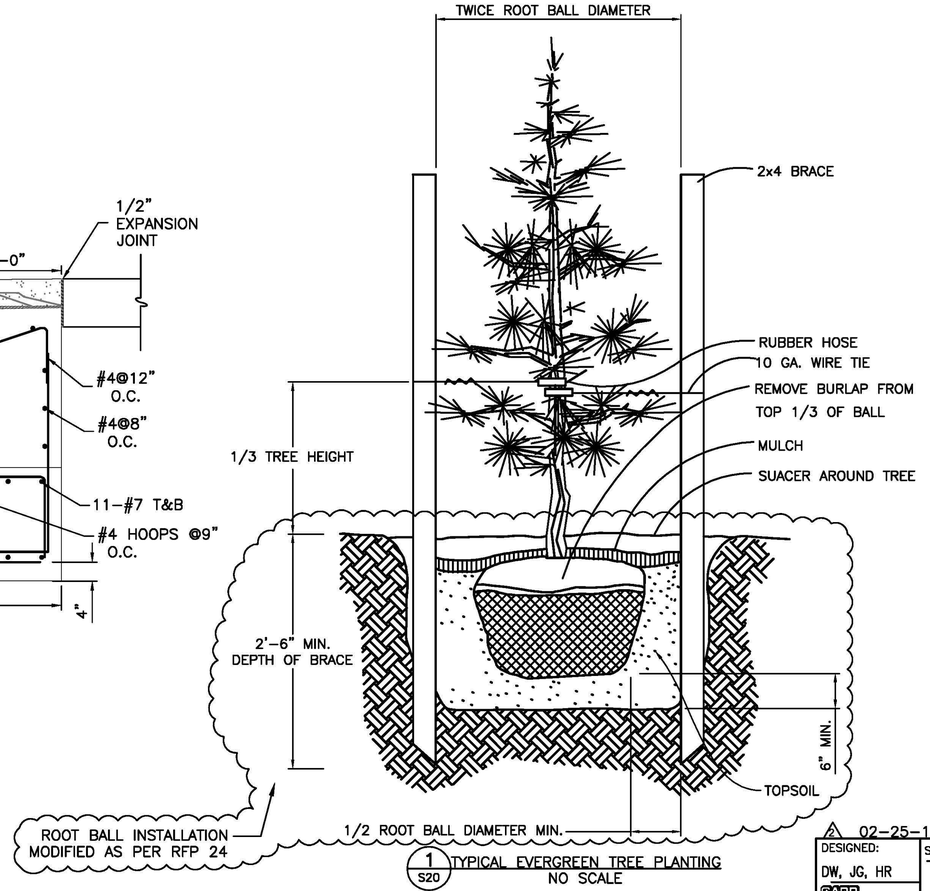
2 S12 S20 NORTHWEST STEPS



4 S20 NORTHWEST PLAZA TREE PLANTING PLAN
NO SCALE



5 S20 NORTHEAST PLAZA TREE PLANTING PLAN
NO SCALE



1 S20 TYPICAL EVERGREEN TREE PLANTING
NO SCALE

NOTES:

1. BAR LENGTHS AND DISTRIBUTION ARE FOR REFERENCE ONLY. ACTUAL BEND RADII AND MINIMUM LENGTH AND SPLICE REQUIREMENTS TO BE DEFINED BY DETAILER.
2. REFER TO SHEET G1 GENERAL NOTES.
3. ~~REPLACED PINE TREE SHALL BE PINUS TAEDA OR PINUS VIRGINIANA.~~ NEW TREES SHALL BE A MINIMUM OF 10' TALL AND 4" DIAMETER.

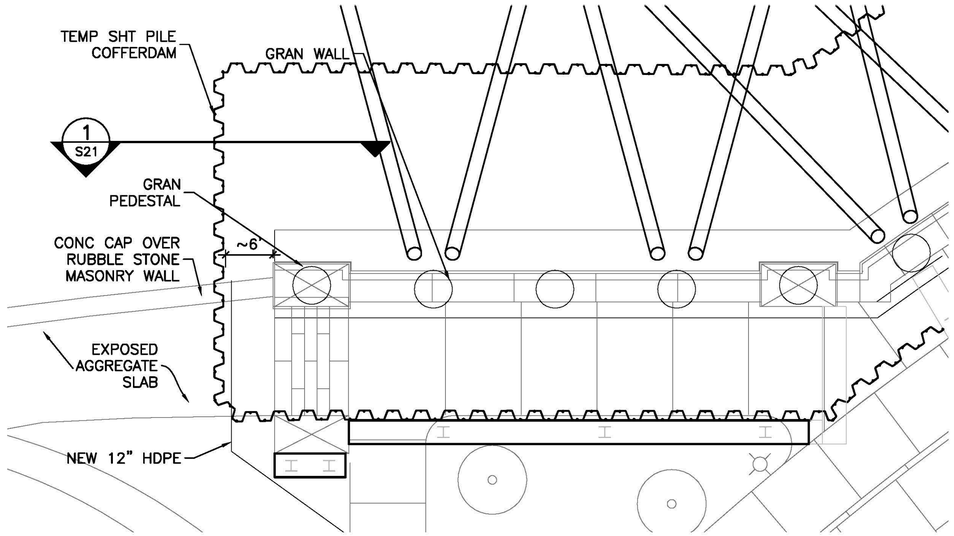
RFP 22: REPLACE (4) WHITE PINE AND (2) HIMALAYAN PINE WITH (2) WHITE PINE AND (1) HIMALAYAN PINE IN EACH TRANSITION ZONE

1 0 1 2 3
SCALE OF FEET

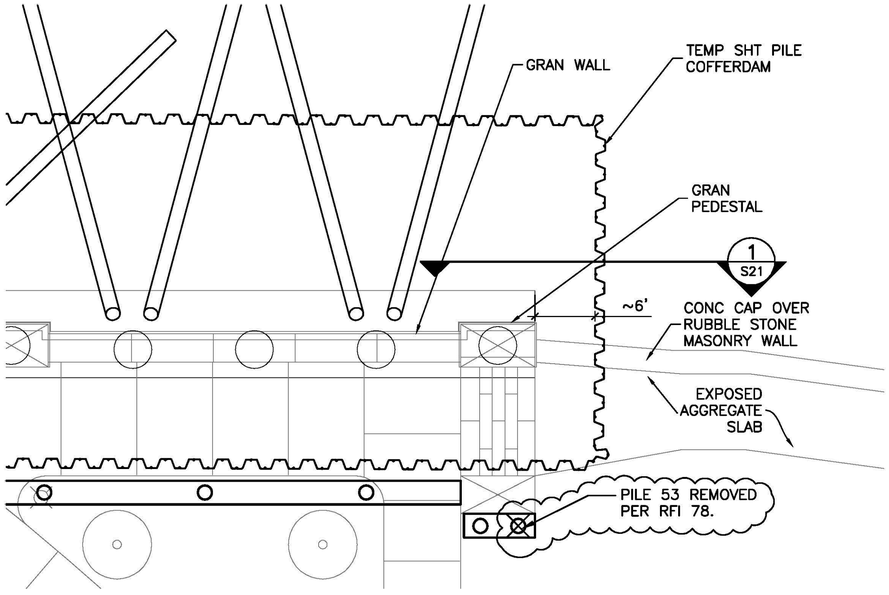
⚠ 02-25-11 REVISIONS TO EAST GRADE BEAM

DESIGNED: DW, JG, HR CADD: NSF, MD TECH. REVIEW: DW, JG DATE: 4-2-09	SUB SHEET NO. S20	TITLE OF SHEET NORTHWEST AND NORTHEAST STEPS AND TREE PLANTING DETAILS THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 38 OF 54

3/12/12 14:44 JNIKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THAE\128232\STRUC\S20 REINFORCING.DWG XREFS: G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\REVISED TRAN. ZONE AND EAST GRADE BEAM\XC-EVG TREE.DWG;



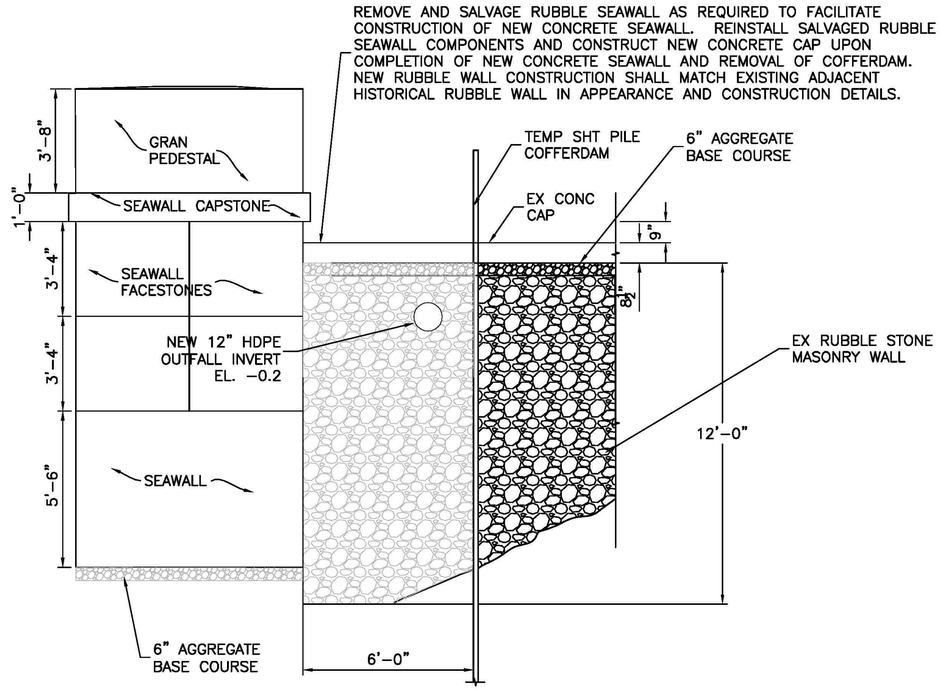
NORTHWEST STAIR TO RUBBLE WALL DETAIL – PLAN VIEW



NORTHEAST STAIR TO RUBBLE WALL DETAIL – PLAN VIEW

NOTES:

1. RUBBLE WALL MAY CONSIST OF CONCRETE WITH RUBBLE STONE FACING. CONTRACTOR SHALL MAKE PROVISIONS TO REMOVE AND REPLACE CONCRETE IF ENCOUNTERED DURING DEMOLITION.

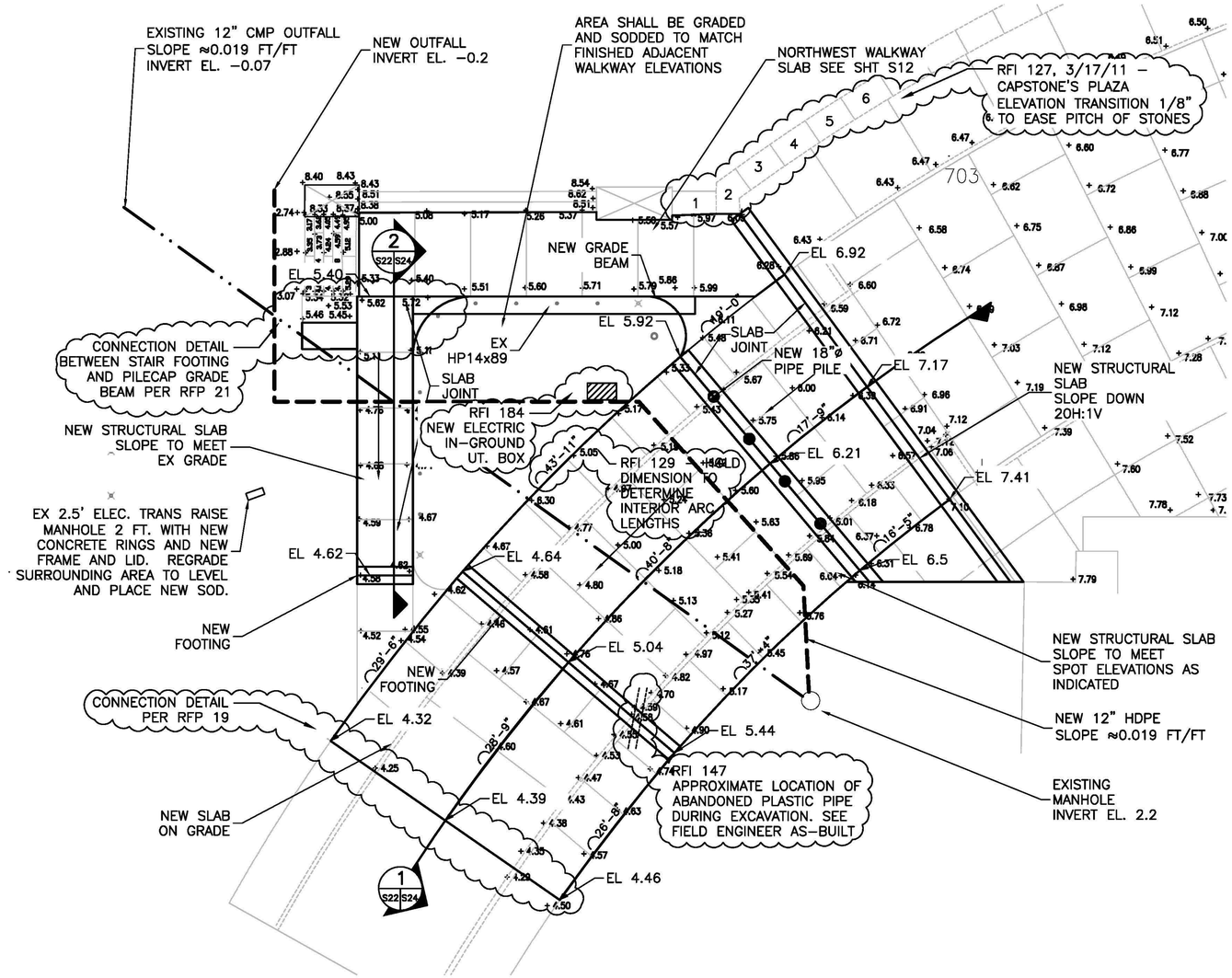


1 S21 STAIR TO RUBBLE WALL DETAIL

2 0 2 4 6
SCALE OF FEET

DESIGNED: DW, MD, GA, RD CADD: NSF, MD TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. S21	TITLE OF SHEET PLAN AND DETAILS AT RUBBLE WALL THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 39 OF 54

11/22/11 11:05 JMIKITKA R18 G:\2009JOBS\09150062_JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\STRUC\S21 RUBBLE-ELEV.DWG XREFS: ..\BASES\XS-RUBBLE.DWG; ..\BASES\XC-AXREF.DWG; ..\BASES\XC-BEAMS.DWG;



WEST WALKWAY TRANSITION ZONE

NOTES:

1. REFER TO SHEET G1 GENERAL NOTES.
2. PIPE PILES SHALL BE DRIVEN TO REFUSAL AND TO SIMILAR DEPTHS AS PIPE PILES ALONG SEAWALL.
3. FIRST SEGMENT OF TRANSITION ZONE SHALL SLOPE DOWN AT 20H:1V FROM THE EXISTING PLAZA ELEVATION. SECOND SEGMENT SHALL SLOPE TO MEET EXISTING GRADE. ESTIMATED SETTLEMENT OF NEW FOOTING TO REACH 20H:1V SLOPE IS APPROXIMATELY 12 IN.
4. WALKWAY FROM STAIRS TO RING ROAD SHALL SLOPE TO MEET EXISTING GRADE.
5. CONTRACTOR SHALL PLACE 6" OF AGGREGATE BASE COURSE, UNDERLAIN BY PROPERLY COMPACTED FILL THAT IS FREE OF LOOSE AND/OR DELETERIOUS MATERIAL, BENEATH NEW SLABS. SEE SPECIFICATION 31 23 23.
6. DRAINAGE GRATES EXIST ALONG THE RING ROAD, SET IN THE GRANITE CURBING, AT AN APPROXIMATE 25' INTERVAL. APPROXIMATELY 3 EXIST WITHIN THE TRANSITION ZONE. ACTUAL LOCATIONS HAVE NOT BEEN SURVEYED. CONTRACTOR SHALL REINSTALL THE GRATES IN THE SAME LOCATION.

RFI 148, 5/18/11 GRATES SHALL NOT BE RE-INSTALLED; REPLACE WITH GRANITE CURB STONES; GRATES TO BE PROVIDED TO NAMA

7. CONTRACTOR SHALL REPLACE 3 PINE TREES REMOVED IN TRIANGULAR AREA. SEE SHEET S20 FOR DETAILS.

RFP 22 "TREES"
2 WHITE PINE
1 HIMALAYAN PINE

8. ~~THE EXISTING CONDITIONS PLAN INDICATES A 12" CMP STORM SEWER PIPE IN THE AREA OF CONSTRUCTION. THIS PIPE MAY NEED TO BE RELOCATED TO AVOID CONFLICTS WITH THE PROPOSED TRANSITION SLAB. TO AVOID CONFLICT, THE PIPE SHALL BE RELOCATED ADJACENT TO THE PROPOSED PILE SUPPORTED GRADE BEAM AND A NEW OUTFALL SHALL BE CONSTRUCTED WITHIN THE DEMOLISHED PORTION OF THE RUBBLE SEAWALL. THE EXISTING 12" CMP SHALL BE ABANDONED AND FILLED WITH FLOWABLE FILL FOLLOWING THE RELOCATION OF THE NEW PIPE. THE LOCATION OF THE NEW 12" HDPE IS APPROXIMATE AND MAY BE ADJUSTED IN THE FIELD WITH APPROVAL OF THE CONTRACTING OFFICER.~~

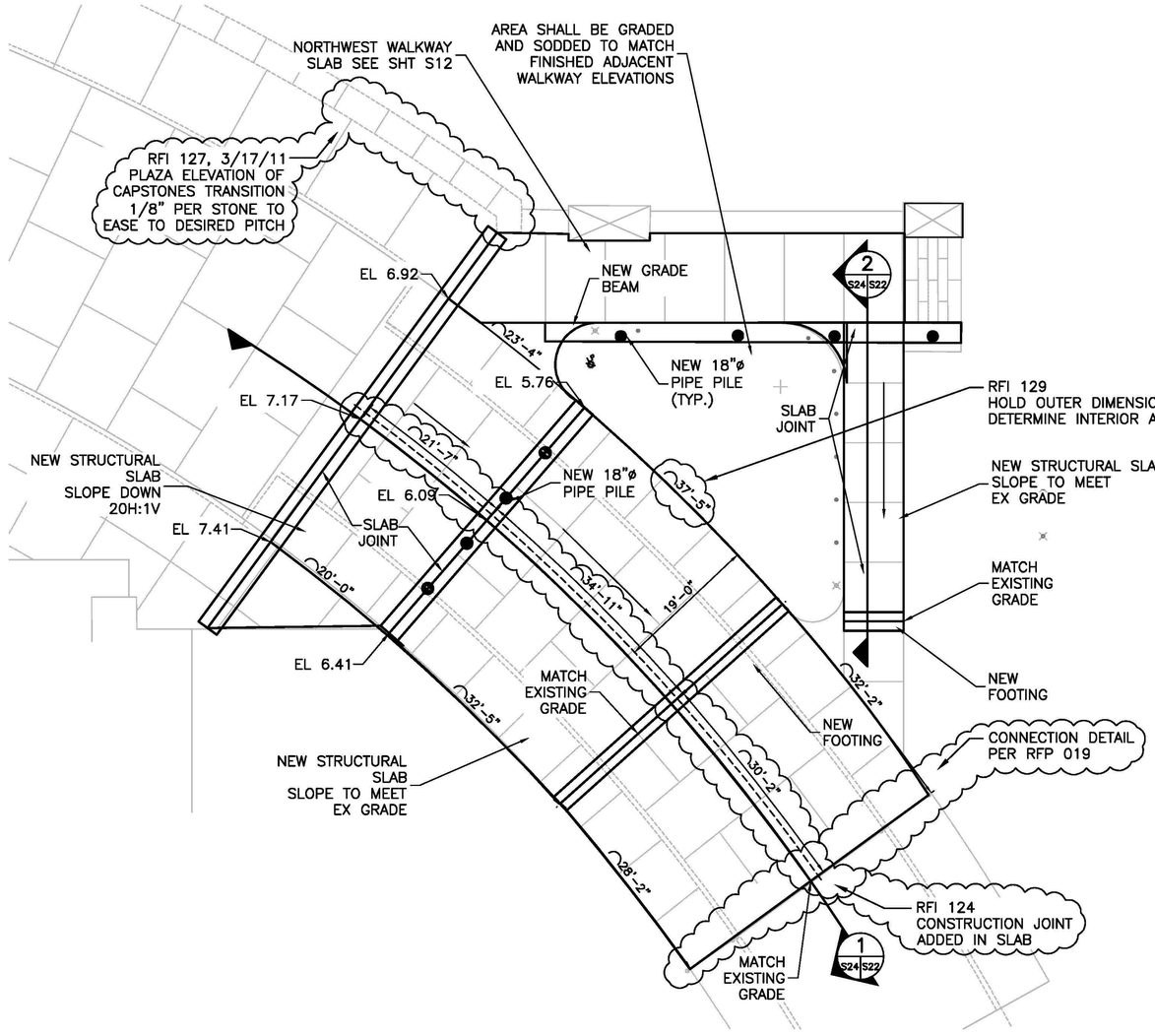
8. The Existing Conditions Plan indicates a 12" CMP Storm Sewer pipe in the area of construction of the new transition slab. To avoid a conflict between this new construction and the existing pipe, a new 12" HDPE pipe shall be installed at the location shown on this drawing adjacent to the proposed pile supported grade beam and a new outfall shall be constructed within the demolished portion of the rubble seawall. The existing 12" CMP shall be removed as required to avoid conflict with new transition slab construction. At locations where conflict with new construction does not occur, the existing 12" CMP shall be abandoned in place and filled with flowable fill following the installation of the new 12" HDPE. The location of the new 12" HDPE is approximate and may be adjusted in the field with the approval of the Contracting Officer.

10 0 10 20
SCALE OF FEET

⚠ 01-03-11 REVISIONS TO TRANSITION ZONES

DESIGNED: DW, PS, JM CADD: NSF, JM TECH. REVIEW: DW, JG DATE: 06-15-09	SUB SHEET NO. S22	TITLE OF SHEET: WEST TRANSITION PLAN THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 40 OF 54

11/29/11 16:40 JMIKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\TAE\128232\STRUC\S22 TRANS W.DWG XREFS: G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\REVISED TRANSITION ZONE\XREF-NEW PLAZA DESIGN.DWG;



EAST WALKWAY TRANSITION ZONE

NOTES:

1. REFER TO SHEET G1 GENERAL NOTES.
2. PIPE PILES SHALL BE DRIVEN TO REFUSAL AND TO SIMILAR DEPTHS AS PIPE PILES ALONG SEAWALL.
3. FIRST SEGMENT OF TRANSITION ZONE SHALL SLOPE DOWN AT 20H:1V FROM THE EXISTING PLAZA ELEVATION. SECOND SEGMENT SHALL SLOPE TO MEET EXISTING GRADE. ESTIMATED SETTLEMENT OF NEW FOOTING TO REACH 20H:1V SLOPE IS APPROXIMATELY 12 IN.
4. WALKWAY FROM STAIRS TO RING ROAD SHALL SLOPE TO MEET EXISTING GRADE.
5. CONTRACTOR SHALL PLACE 6" OF AGGREGATE BASE COURSE, UNDERLAIN BY PROPERLY COMPACTED FILL THAT IS FREE OF LOOSE AND/OR DELETERIOUS MATERIAL, BENEATH NEW SLABS. SEE SPECIFICATION 31 23 23.
6. DRAINAGE GRATES EXIST ALONG THE RING ROAD, SET IN THE GRANITE CURBING, AT AN APPROXIMATE 25' INTERVAL. APPROXIMATELY 3 EXIST WITHIN THE TRANSITION ZONE. ACTUAL LOCATIONS HAVE NOT BEEN SURVEYED. CONTRACTOR SHALL REINSTALL THE GRATES IN THE SAME LOCATION.

RFI 148, 5/18/11
GRATES SHALL NOT BE RE-INSTALLED; REPLACE WITH GRANITE CURB STONES; GRATES TO BE PROVIDED TO NAMA

7. CONTRACTOR SHALL REPLACE 2 PINE TREES REMOVED IN TRIANGULAR AREA. SEE SHEET S20 FOR DETAILS.

RFP 22 "TREES"
2 WHITE PINE
1 HIMALAYAN PINE

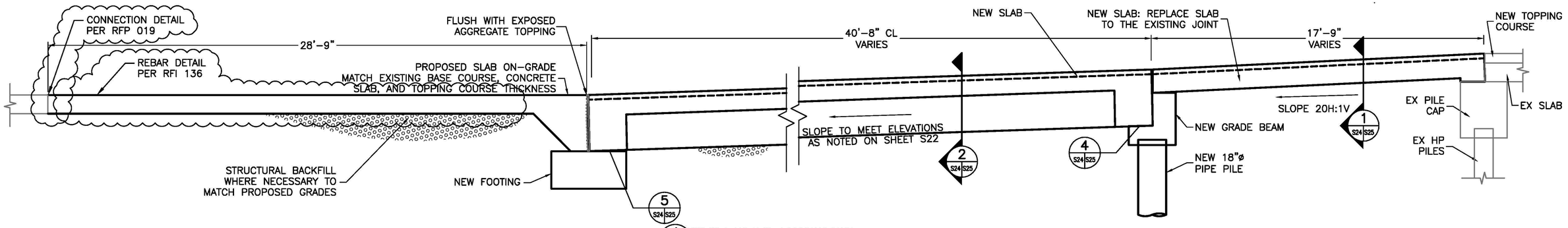
RFI 188
BOND BREAKER TO BE PLACED ON STRUCTURAL SLAB PRIOR TO EXPOSED AGGREGATE TOPPING COURSE AT RING ROAD (NOT SIDEWALKS)

10 0 10 20
SCALE OF FEET

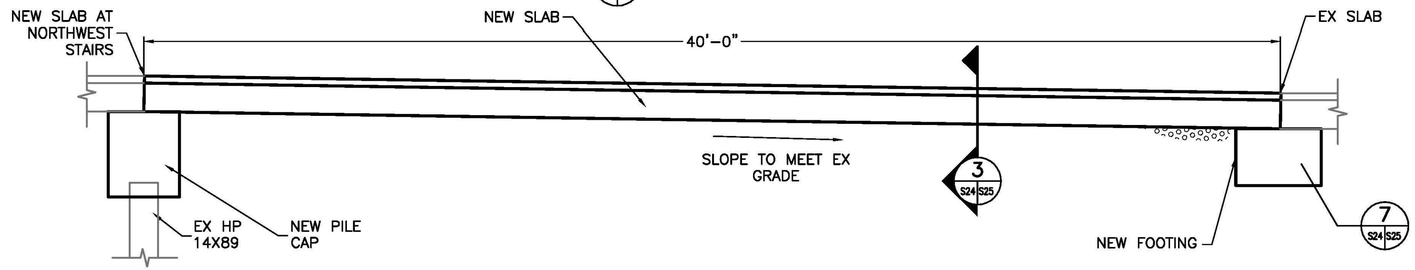
⚠ 01-03-11 REVISIONS TO TRANSITION ZONES

DESIGNED: DW, PS, JM CADD: JM TECH. REVIEW: DW, JG DATE: 06-15-09	SUB SHEET NO. S23	TITLE OF SHEET EAST TRANSITION PLAN THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 41 OF 54

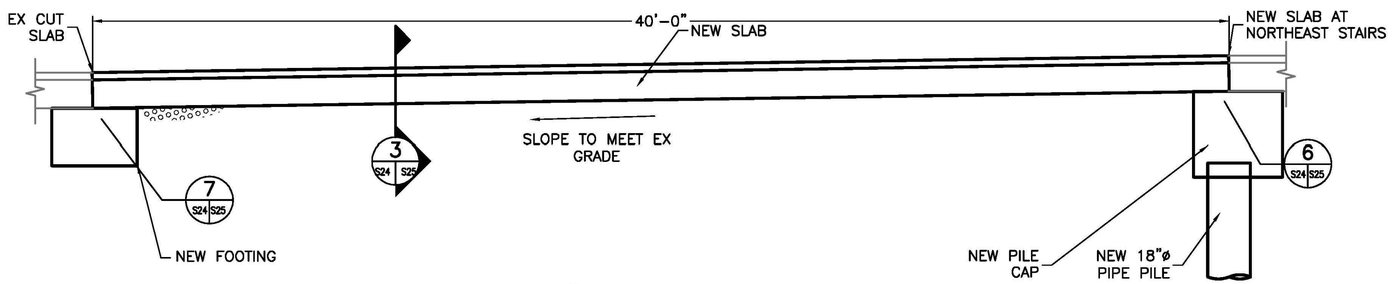
11/29/11 16:36 JMKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THAE\128232\STRUC\S23 TRANS E.DWG XREFS: G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\REVISED TRANSITION ZONE\XREF-NEW PLAZA DESIGN.DWG;



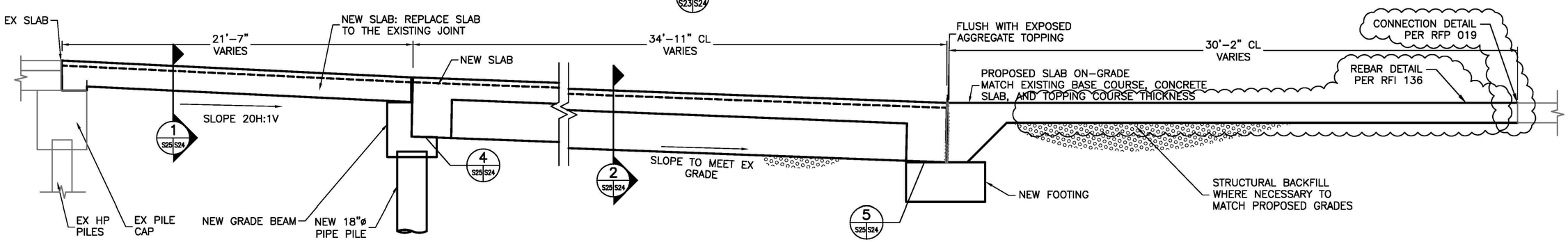
1 S22 S24 **WEST PLAZA TRANSITION**



2 S22 S24 **NORTHWEST STAIR TRANSITION**



3 S23 S24 **NORTHEAST STAIR TRANSITION**



4 S23 S24 **EAST PLAZA TRANSITION**

2 0 2 4 6
SCALE OF FEET

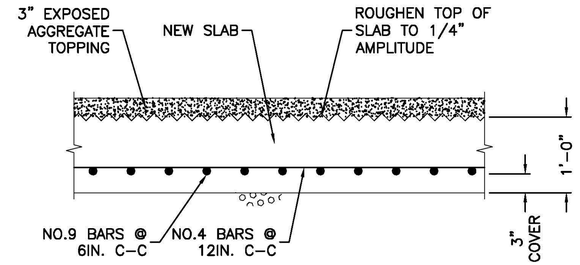
NOTES:

1. REFER TO SHEET G1 GENERAL NOTES.
2. CONTRACTOR WILL NEED TO EXCAVATE BENEATH EXISTING SLAB IN ORDER TO BUILD NEW FOOTING.
3. AT EXISTING SLABS, CREATE CONSTRUCTION JOINT BY SAW CUTTING TO FULL DEPTH.
4. CONTRACTOR SHALL PLACE 6" OF AGGREGATE BASE COURSE, UNDERLAIN BY PROPERLY COMPACTED FILL THAT IS FREE OF LOOSE AND/OR DELETERIOUS MATERIAL, BENEATH NEW SLABS. SEE SPECIFICATION 31 23 23.

⚠ 03-16-11 REVISIONS TO NEW FOOTING CONNECTION

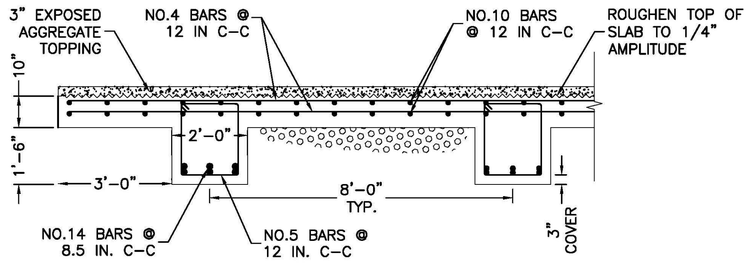
DESIGNED: DW, JM, PS DRAWN: JM TECH. REVIEW: DW, JG DATE: 06-15-09	SUB SHEET NO. S24	TITLE OF SHEET: TRANSITION DETAILS THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 42 OF 54

3/12/12 16:48 JMKITKA R18 G:\2009\OBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\STRUC\S24 TRANS DETLS.DWG



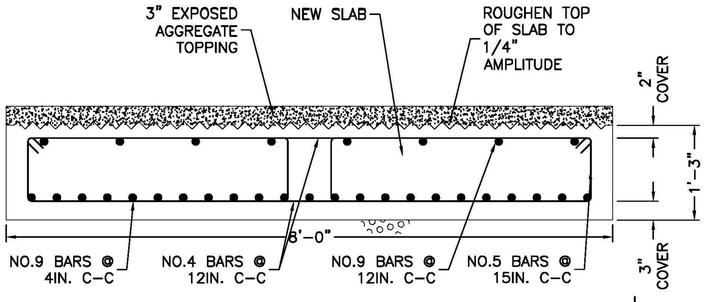
1 S24 S25 REPLACEMENT TRANSITION SLAB DETAIL (TYP)

SCALE Ⓐ



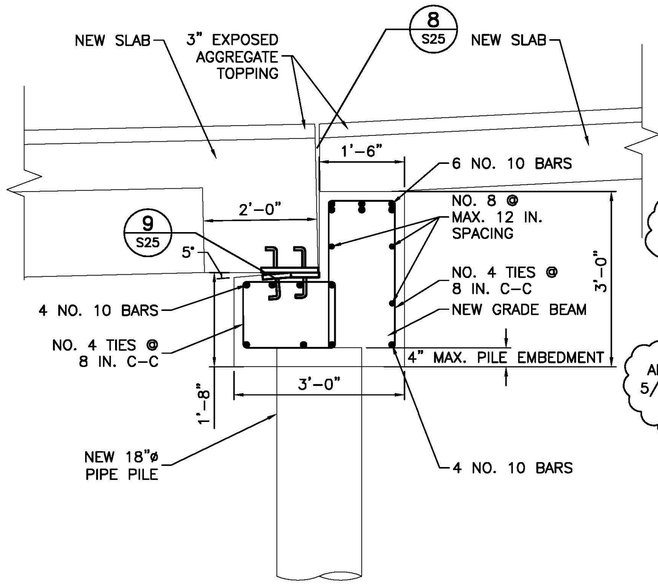
2 S24 S25 TBEAM REPLACEMENT TRANSITION SLAB DETAIL (TYP)

SCALE Ⓑ



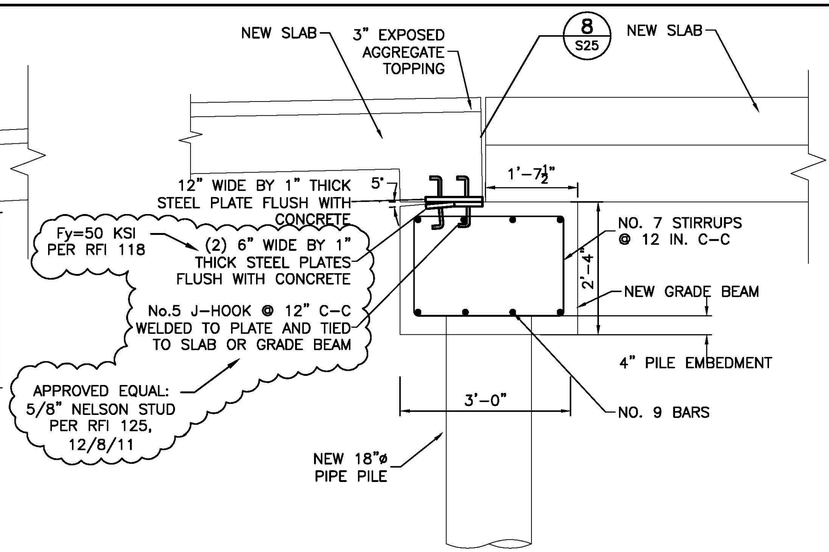
3 S24 S25 STAIR TRANSITION SLAB DETAIL (TYP)

SCALE Ⓐ



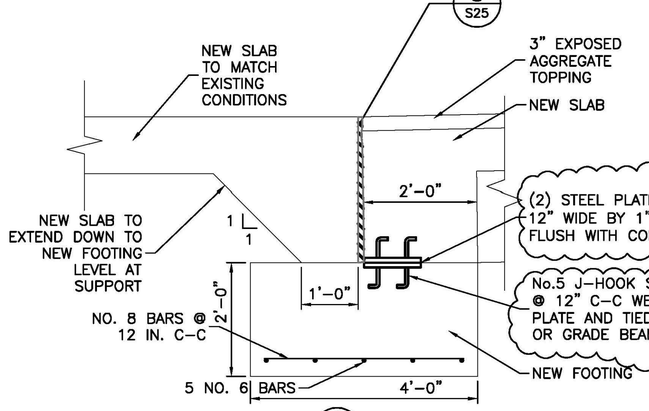
4 S24 S25 NEW GRADE BEAM

SCALE Ⓒ



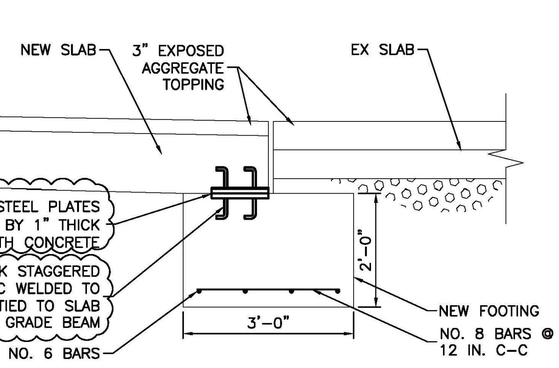
6 S24 S25 NEW GRADE BEAM

SCALE Ⓒ



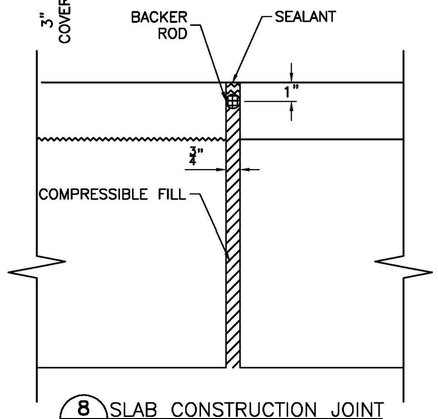
5 S24 S25 NEW FOOTING

SCALE Ⓒ



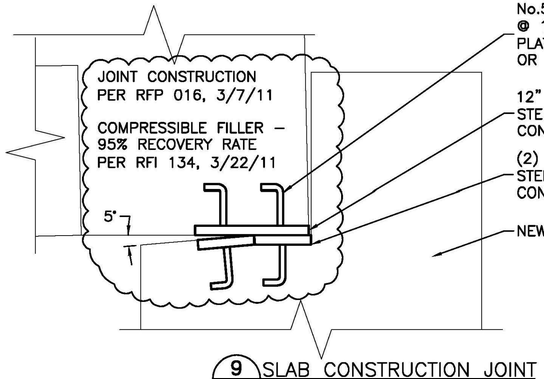
7 S24 S25 NEW FOOTING

SCALE Ⓒ



8 S25 SLAB CONSTRUCTION JOINT

SCALE Ⓔ



9 S25 SLAB CONSTRUCTION JOINT

SCALE Ⓓ

SCALE Ⓐ 1 0 1 2 SCALE OF FEET

SCALE Ⓑ 2 0 2 4 SCALE OF FEET

SCALE Ⓒ 1 0 1 2 3 SCALE OF FEET

SCALE Ⓓ 12 6 0 12 SCALE OF INCHES

SCALE Ⓔ 6 3 0 6 SCALE OF INCHES

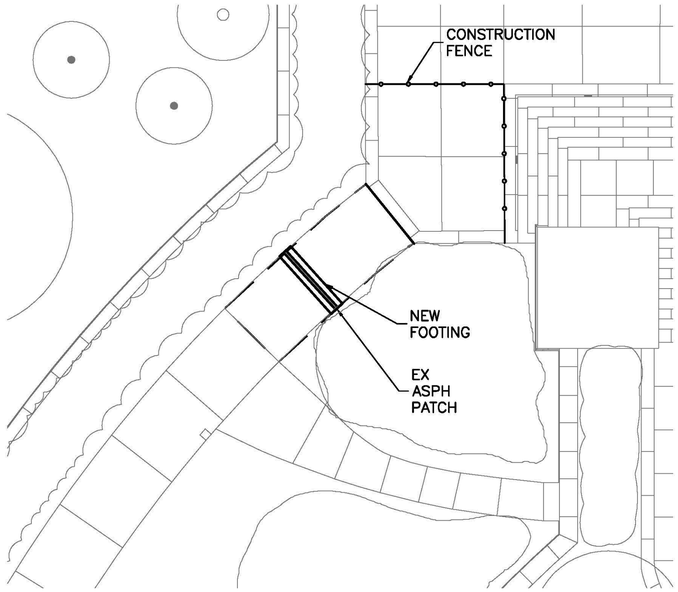
NOTES:

1. REFER TO SHEET G1 GENERAL NOTES.
2. CONTRACTOR WILL NEED TO EXCAVATE BENEATH EXISTING SLAB IN ORDER TO BUILD NEW GRADE BEAMS.
3. CONTRACTOR SHALL PLACE 6" OF AGGREGATE BASE COURSE, UNDERLAIN BY PROPERLY COMPACTED FILL THAT IS FREE OF LOOSE OR DELETERIOUS MATERIAL, BENEATH NEW SLABS. SEE SPECIFICATION 31 23 23.

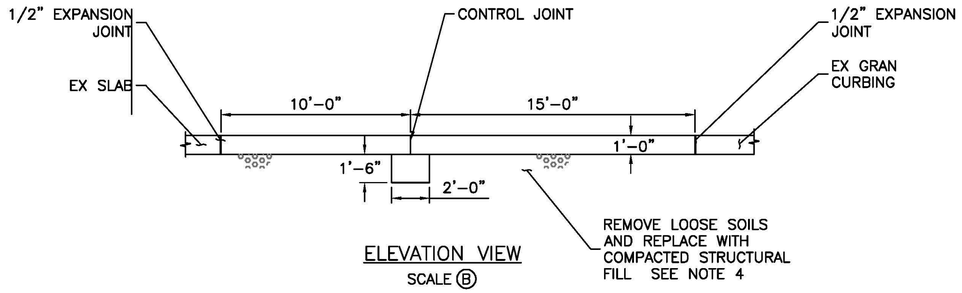
⚠ 03-23-11 REVISIONS TO NEW GRADE BEAM CONNECTION

DESIGNED: DW, JM, PS	SUB SHEET NO.	TITLE OF SHEET: TRANSITION DETAILS	DRAWING NO. 808 25005A
CADD NSF, JM	S25		PMIS/PKG NO. 128232
TECH. REVIEW: DW, JG		THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	SHEET 43 OF 54
DATE: 06-15-09			

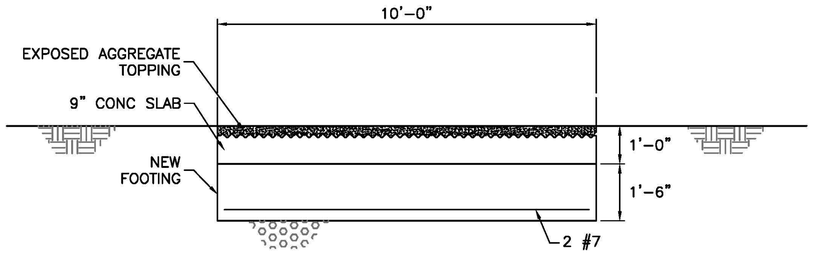
3/12/12 16:47 JWIKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THAE\128232\STRUC\S25 TRANS DETLS.DWG



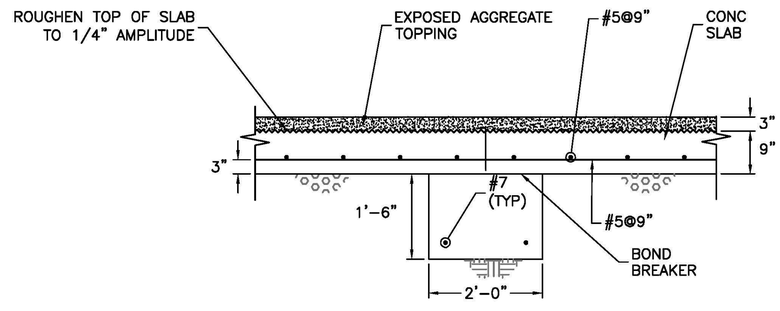
PLAN VIEW
SCALE Ⓐ



ELEVATION VIEW
SCALE Ⓑ



SECTION VIEW
SCALE Ⓒ



DETAIL
SCALE Ⓓ

NOTES:

1. REFER TO SHEET G1 GENERAL NOTES.
2. WALKWAY TO BE CLOSED DURING DEMOLITION AND REPLACEMENT OF THE WALKWAY. ONCE THE NEW WALKWAY IS COMPLETE, THE TERRACE WALKWAY SHALL BE REOPENED.
3. REFER TO S28 FOR EXPANSION JOINT DETAILS.
4. CONTRACTOR SHALL PLACE 6" OF AGGREGATE BASE COURSE, UNDERLAIN BY PROPERLY COMPACTED FILL THAT IS FREE OF LOOSE OR DELETERIOUS MATERIAL, BENEATH NEW SLABS. SEE SPECIFICATION 31 23 23.
5. THE EXISTING CONDITIONS PLAN INDICATES A 12" CORRUGATED METAL PIPE IN THE AREA OF THE TERRACE WALKWAY CONSTRUCTION. THE CONTRACTOR SHALL USE CARE DURING EXCAVATION AND RECONSTRUCTION ACTIVITIES TO NOT CAUSE DAMAGE TO THIS PIPE. DAMAGE CAUSED DURING CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

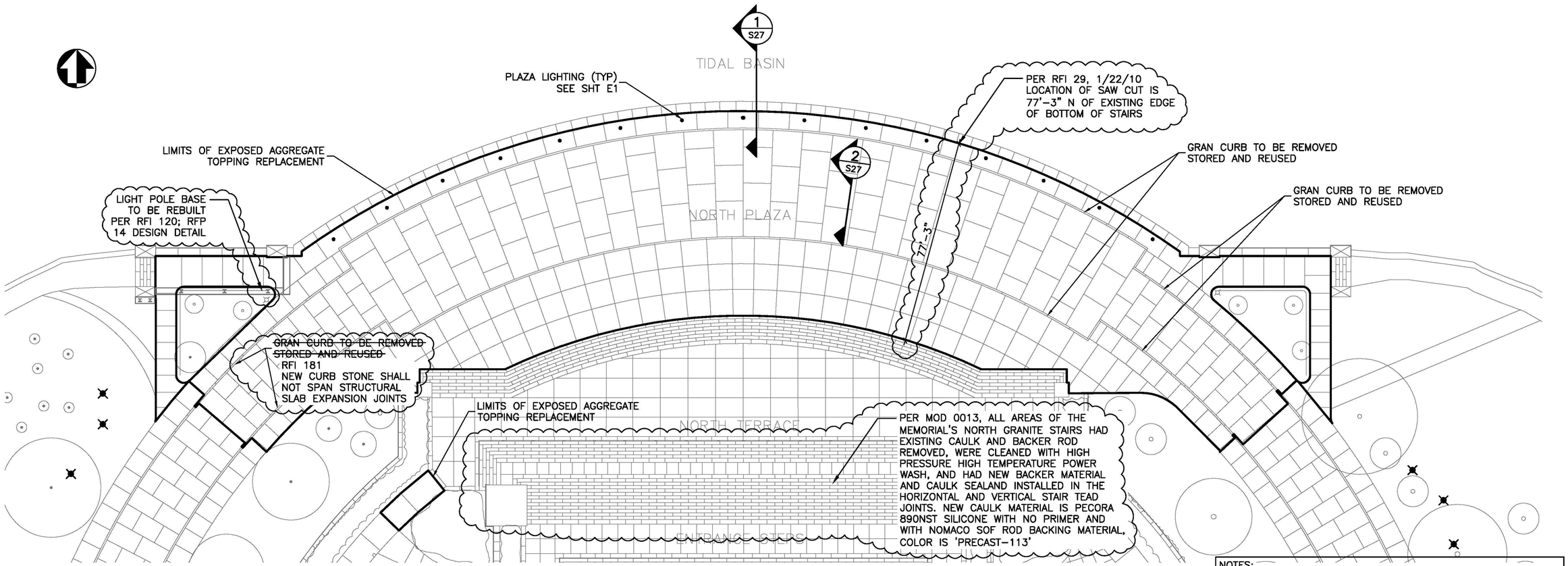
TERRACE WALKWAY CONSTRUCTION SEQUENCE	
STEP	DESCRIPTION
1	ERECT FENCING AND SIGNAGE
2	DEMO EXISTING SLABS
3	EXCAVATE FOR NEW FOOTING
4	FORM FOOTING AND PLACE REBAR
5	POUR FOOTING
6	PLACE BOND BREAKER AND SLAB REBAR
7	POUR SLAB
8	ROUGHEN SURFACE OF SLAB AND POUR EXPOSED AGGREGATE TOPPING
9	OPEN WALKWAY

SCALE Ⓐ 10 0 10 20 SCALE OF FEET
SCALE Ⓑ 4 0 4 8 SCALE OF FEET
SCALE Ⓒ 2 0 2 4 SCALE OF FEET
SCALE Ⓓ 1 0 1 2 3 SCALE OF FEET

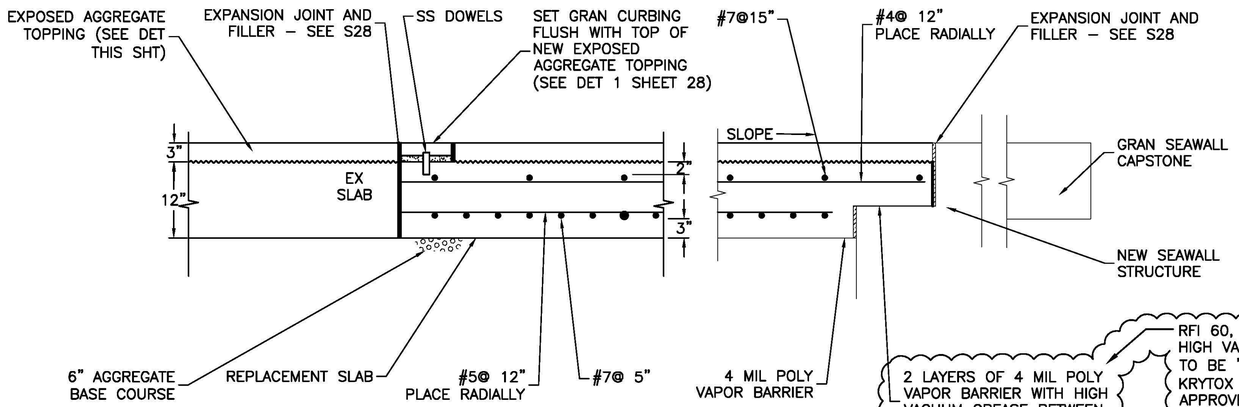
REFERENCE: BASE DRAWINGS WERE PROVIDED BY NATIONAL PARK SERVICE.

DESIGNED: DW, PS CADD NSF TECH. REVIEW: JG, DW DATE: 6–15–09	SUB SHEET NO. S26	TITLE OF SHEET TERRACE WALKWAY THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 44 OF 54

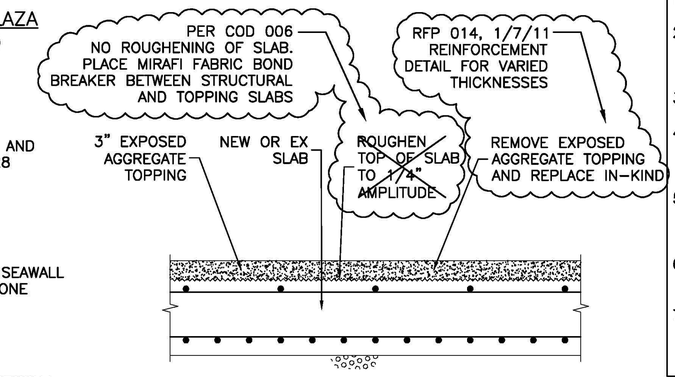
11/23/11 10:56 JWHITMA R18 G:\2009\08S\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THAE\128232\STRUC\S26 REPAIR-WW.DWG XREFS: ..\BASES\VG-AXREF.DWG;



NORTH PLAZA
SCALE Ⓐ



1 S27 REPLACEMENT PLAZA SLAB DETAIL
SCALE Ⓑ



2 S27 REPLACEMENT EXPOSED AGGREGATE TOPPING DETAIL (TYPICAL)
SCALE Ⓒ

NOTES:

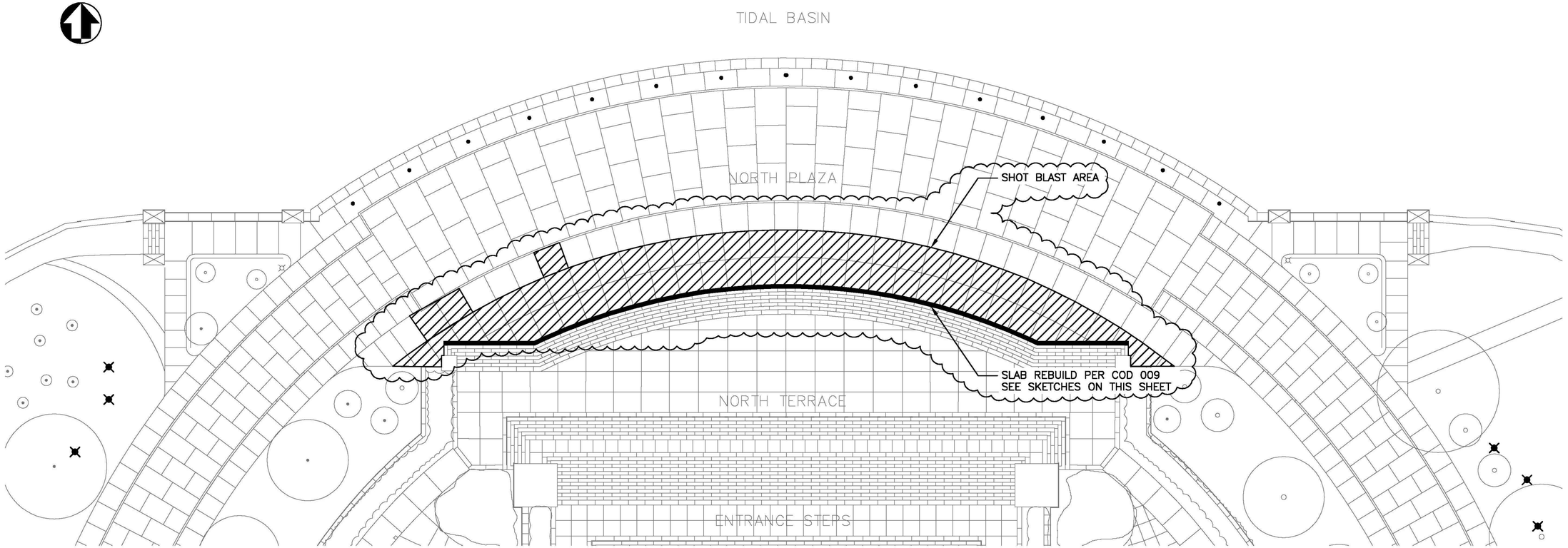
1. REFER TO SHEET G1 GENERAL NOTES.
2. A SUITABLE BOND BREAKER SHALL BE USED WHERE THE REPLACEMENT SEAWALL AND PLAZA SLAB ABUTS AGAINST THE EXISTING SEAWALL AT CLIN CONSTRUCTION LIMITS.
3. BOND BREAKER TO BE APPROVED BY CONTRACTING OFFICER.
4. LAP SPLICES SHALL BE A MINIMUM OF 54". TOP BARS SHALL BE SPLICED AT THE MIDPOINT BETWEEN GRADE BEAMS. BOTTOM BARS SHALL BE SPLICED AT THE GRADE BEAMS.
5. THE PIEZOMETERS AND INCLINOMETERS IN THE PLAZA SHALL BE PRESERVED AND THEIR COVERS SHALL BE ADJUSTED AS REQUIRED FOR THE INSTALLATION OF THE NEW TOPPING SLAB.
6. EXISTING TRASH CANS WITHIN THE LIMITS OF WORK SHALL BE SALVAGED AND REINSTALLED.
7. CONTRACTOR SHALL PLACE 6" OF AGGREGATE BASE COURSE, UNDERLAIN BY PROPERLY COMPACTED FILL THAT IS FREE OF LOOSE OR DELETERIOUS MATERIAL, BENEATH NEW SLABS. SEE SPECIFICATION 31 23 23.

RFI 123, 3/10/11
EXP. AGGREGATE COLOR REQUIREMENT NOTES

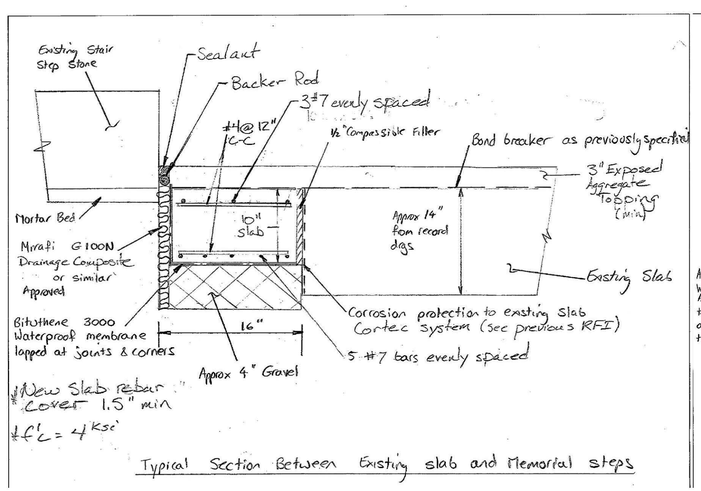
SCALE Ⓐ 20 0 20 40 SCALE OF FEET
SCALE Ⓑ 1 0 1 2 SCALE OF FEET
SCALE Ⓒ 1 0 1 2 SCALE OF FEET

DESIGNED: DW, JG, HR	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO. 808 25005A
DRAWN: NSF, MD	S27	TOPPING AND PLAZA REPLACEMENT SLABS	PMIS/PKG NO. 128232
TECH. REVIEW: DW, JG		THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	SHEET 45 OF 54
DATE: 6-15-09			

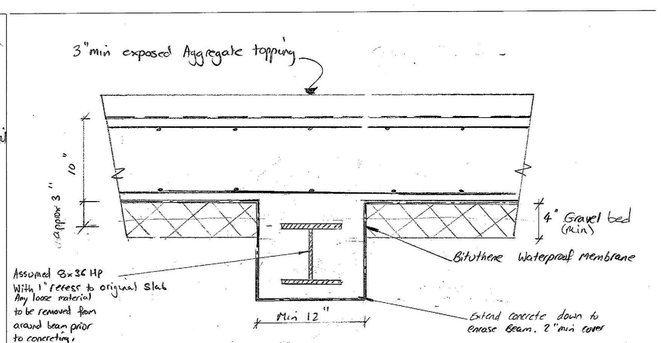
3/13/12 12:40 JMIKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THAE\128232\STRUC\S27 CURB.DWG XREFS: ..\BASES\XC-AXREF.DWG;



NORTH PLAZA
SCALE Ⓐ



Typical Section Between Existing slab and Memorial steps



Typical Section through Steel support beams at Memorial Steps

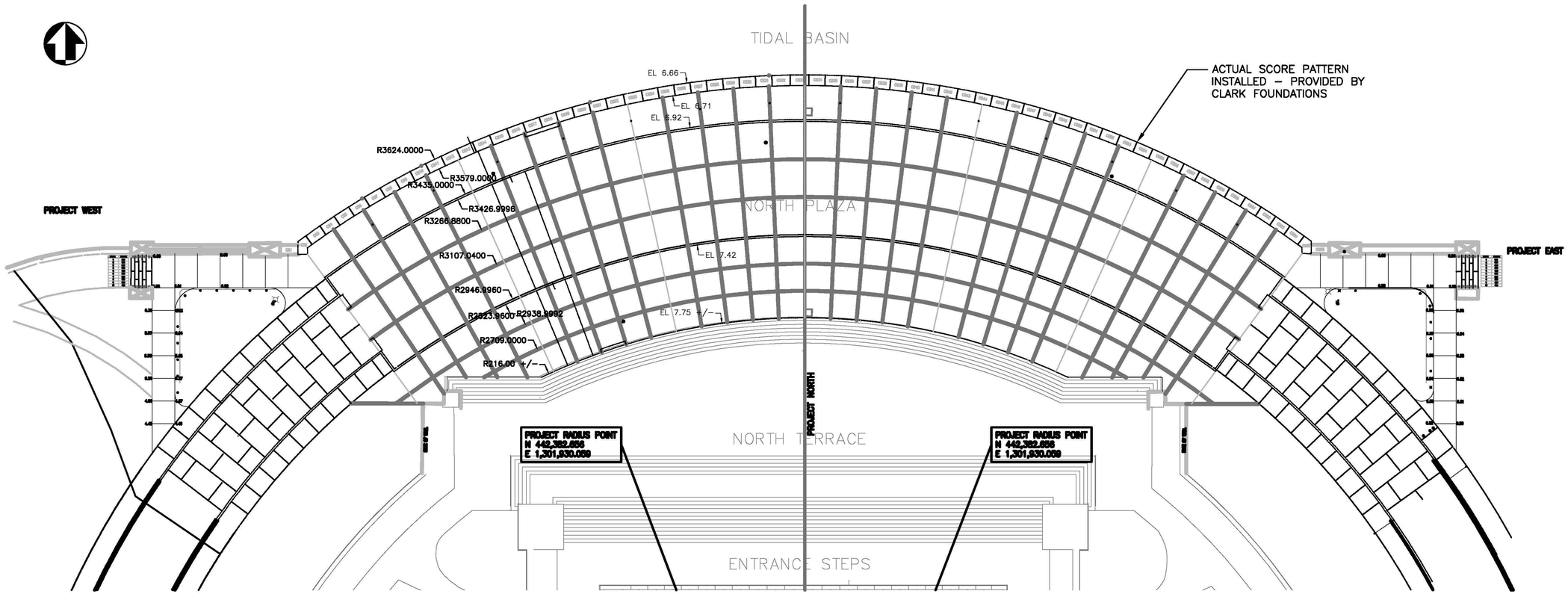
SCALE Ⓐ 20 0 20 40 SCALE OF FEET

SCALE Ⓑ 1 0 1 2 SCALE OF FEET

SCALE Ⓒ 1 0 1 2 SCALE OF FEET

DESIGNED: DW, JG, HR	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO. 808 25005A
CADD: NSF, MD	S27A	SLAB REBUILD	PMIS/PKG NO. 128232
TECH. REVIEW: DW, JG		THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	SHEET 45A OF 54
DATE: 6-15-09			

4/12/12 13:00 JMIKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\STRUC\S27A SLAB REBUILD.DWG XREFS: ..\BASES\XC-AXREF.DWG;
G:\2009Jobs\09150062 Jefferson Memorial Title III Services\CADD\AS BUILTS\THJE\128232\STRUC\S27A SLAB REBUILD.dwg, 4/12/2012 1:00:16 PM, jmikitka



NORTH PLAZA
SCALE Ⓐ

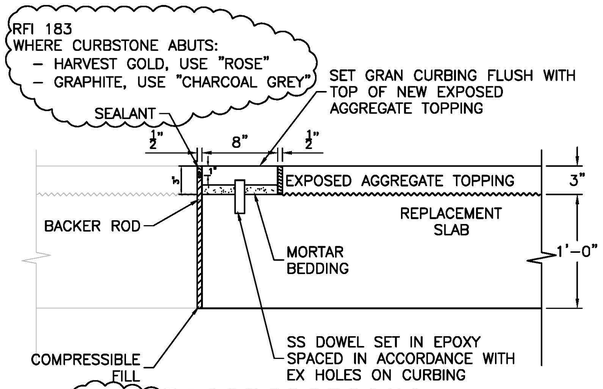
SCALE Ⓐ 20 0 20 40
SCALE OF FEET

SCALE Ⓑ 1 0 1 2
SCALE OF FEET

SCALE Ⓒ 1 0 1 2
SCALE OF FEET

DESIGNED: DW, JG, HR CADD NSF, MD TECH. REVIEW: DW, JG DATE: 6-15-09	SUB SHEET NO. S27B	TITLE OF SHEET PLAZA SCORING PATTERN THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 45B OF 54

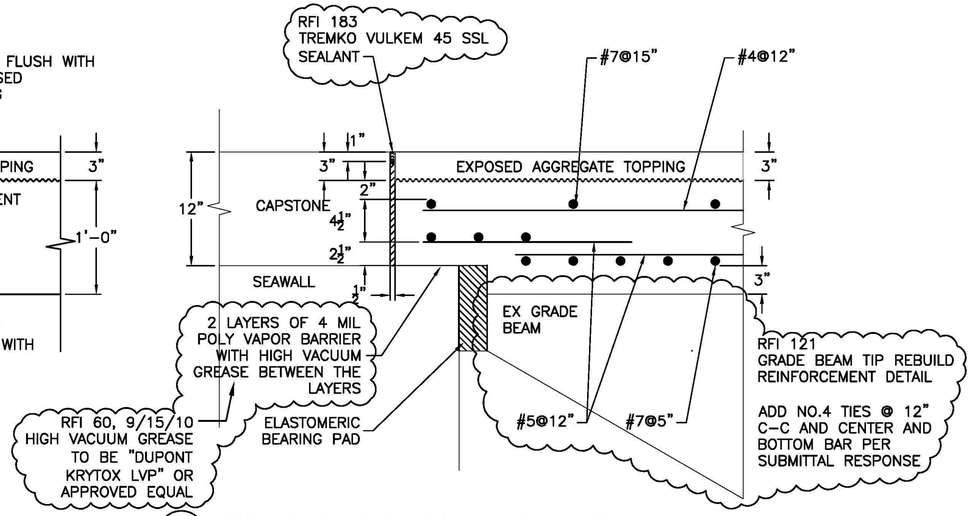
3/13/12 11:26 JWKITKA R18 G:\2009\OBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\STRUC\S27B SCORING.DWG XREFS: ..\BASES\XC-AXREF.DWG;



1 S28 NEW SLAB TO EXISTING SLAB

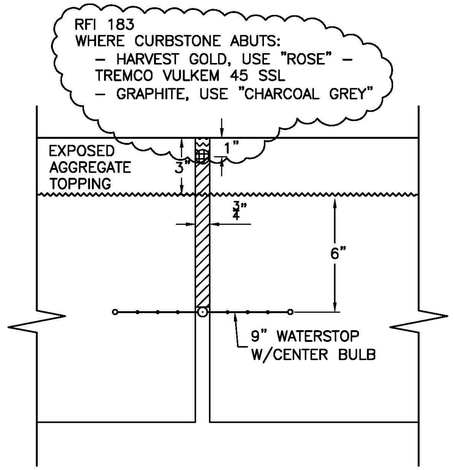
SCALE (A)

RFI 146/ COD 005
NEW DETAIL FOR SLAB ON GRADE TIE–IN AT NEW EXPANSION JOINT



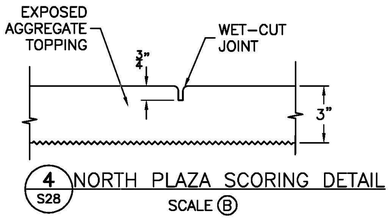
2 S28 NORTH PLAZA EXPANSION JOINT AT SEAWALL

SCALE (A)



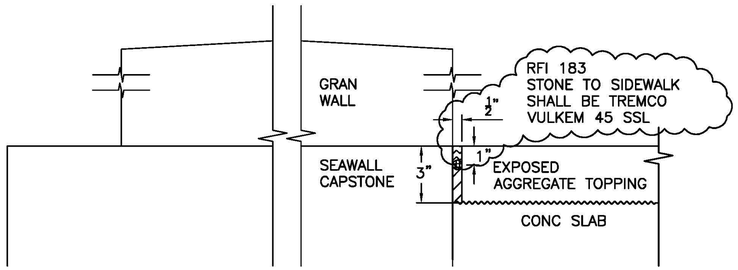
3 S28 NORTH PLAZA INTERIOR TRANSVERSE EXPANSION JOINTS

N.T.S.



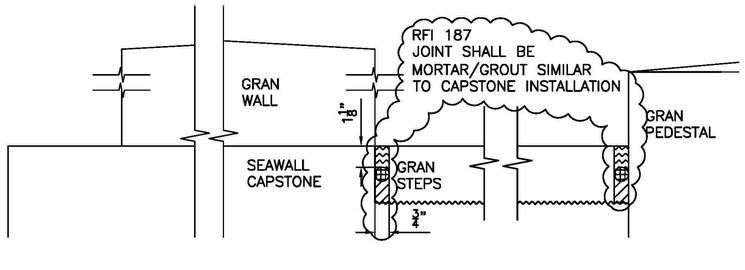
4 S28 NORTH PLAZA SCORING DETAIL

SCALE (B)



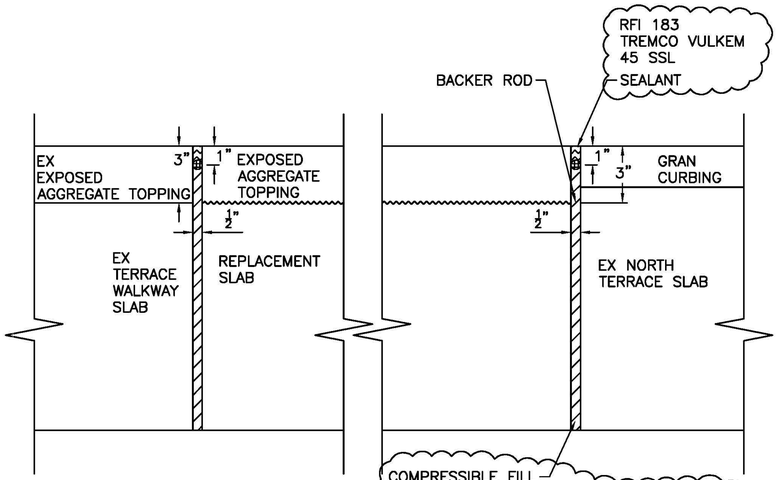
5 S28 EXPANSION JOINT– SIDEWALK ADJACENT TO SEAWALL AT NE AND NW STAIRS

SCALE (B)



6 S28 EXPANSION JOINT– AT NE AND NW STAIRS

N.T.S.



7 S28 TERRACE WALKWAY EXPANSION JOINTS

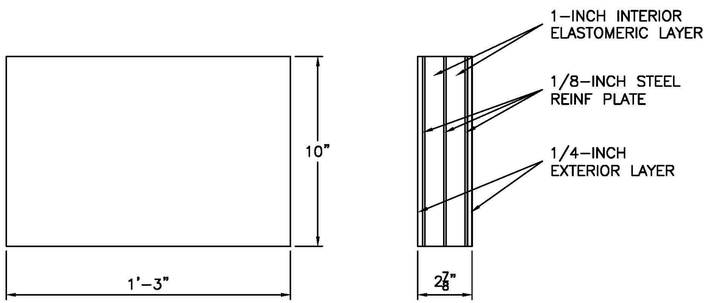
N.T.S.

NOTE:
PLAZA JOINT SEALANT COLORS ARE AS FOLLOWS:

FLUSH GRANITE CURB STONES – ALL JOINTS ADJACENT TO AND THROUGH GRANITE ARE TREMCO VULKEM 45, COLOR 'GRAY';

SIDEWALKS (PLAZA AREAS TO THE NORTH AND SOUTH OF THE LINES OF FLUSH GRANITE CURB STONES): ALL JOINTS ACROSS SIDEWALKS ARE TREMCO VULKEM 45 CUSTOM COLOR TO MATCH PECORA DYNATRED, COLOR: 'ROSE';

ROADWAY (PLAZA AREA BETWEEN THE LINES OF FLUSH GRANITE CURB STONES): ALL JOINTS ACROSS ROADWAYS AND PLAZA ARE TREMCO VULKEM 45 CUSTOM COLOR TO MATCH PECORA DYNATRED, COLOR: 'CHARCOAL GRAY'



8 S28 ELASTOMERIC BEARING PAD DETAIL

SCALE (B)

LEGEND
- COMPRESSIBLE FILL
- BACKER ROD
- SEALANT

SCALE (A) 12 6 0 12 SCALE OF INCHES

SCALE (B) 6 3 0 6 SCALE OF INCHES

DESIGNED: DW, JG, HR, PS CADD NSF TECH. REVIEW: DW, JG DATE: 6–15–09	SUB SHEET NO. S28	TITLE OF SHEET NORTH PLAZA SLAB TO EXISTING AND EXPANSION JOINT DETAILS THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 46 OF 54

4/12/12 11:30 JMIKITKA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THdE\128232\STRUC\S28 EXPANSION.DWG
G:\2009Jobs\09150062 Jefferson Memorial Title III Services\CADD\AS BUILTS\THdE\128232\STRUC\S28 EXPANSION.dwg, 4/12/2012 11:43:34 AM, jmikitka

NOTES:
1. FIELD COORDINATE TO SECURE FIXTURE TO REBAR SUPPORT. REFER TO FIXTURE INSTALLATION INSTRUCTIONS.

2. 3/4" RIGID METALLIC CONDUIT (RMC) WITH:
3 – #10
1 – #10 GND

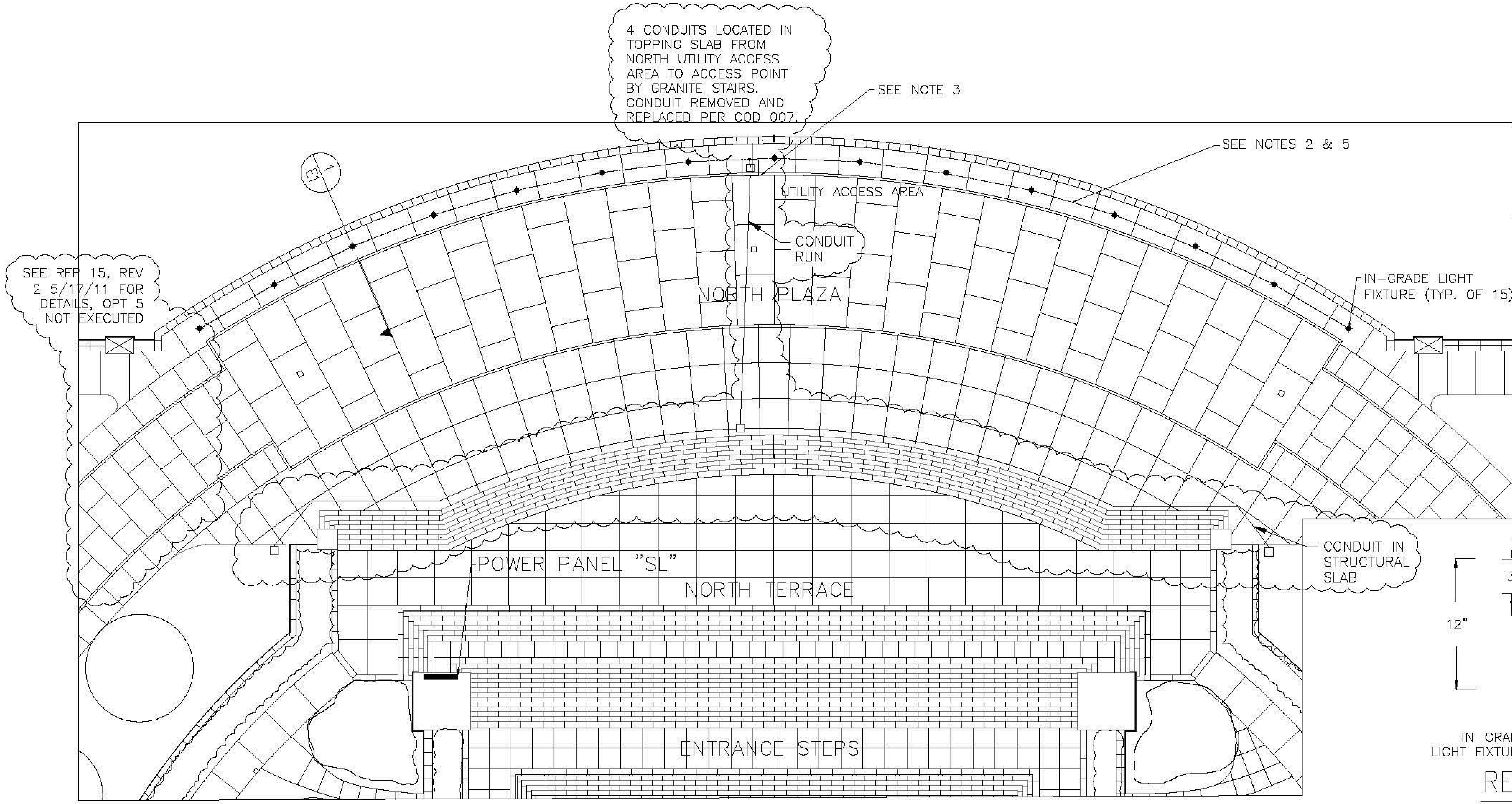
3. CONTRACTOR SHALL FURNISH AND INSTALL NEW UTILITY ACCESS AREA CONSISTING OF FORMED AREA PRIOR TO CONCRETE POUR, COVER AND FRAME EQUAL TO NEENAH MODEL ~~R-6660-DH~~, SOLID BRONZE, OR APPROVED EQUAL. CONTRACTOR SHALL FURNISH AND INSTALL NEW LIGHT FIXTURE CONDUIT AND WIRE BETWEEN PANEL SL AND NEW UTILITY ACCESS AREA, AND FROM UTILITY ACCESS AREA TO NEW LIGHT FIXTURES. WIRE SHALL BE SIZED MATCHING EXISTING. CONTRACTOR TO DE-ENERGIZE THE UTILITY ACCESS RECEPTACLES PRIOR TO DEMOLITION AND EITHER PROTECT OR REMOVE RECEPTACLES FOR RE-INSTALLATION DURING CONSTRUCTION. EXISTING PANEL SCHEDULE DESIGNATES RECEPTACLES ARE POWERED FROM PANEL SL, CIRCUITS 17 & 19.

RFI 138, MODEL R-6660-JH

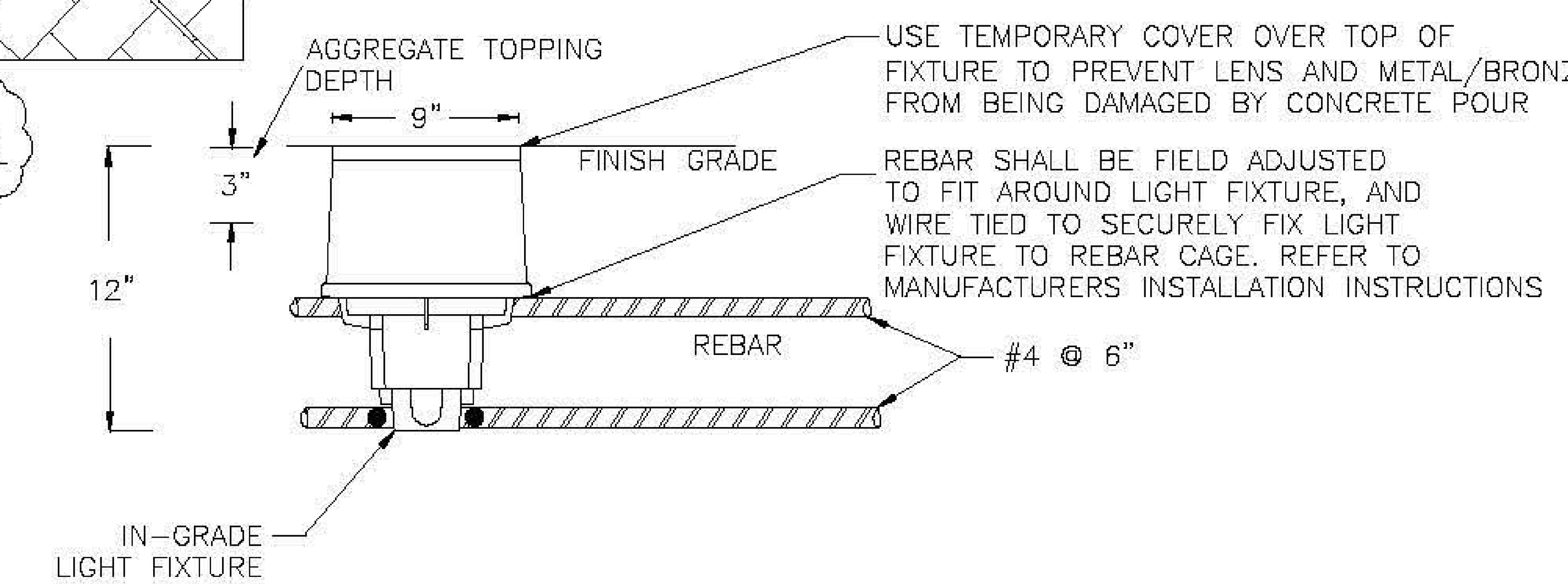
RFI 145, USE NEENAH MODEL R-662-HH, TYPE T FLUSH HINGE

4. EXISTING IN-GRADE FIXTURES ARE SERVED FROM PANEL SL BREAKERS 17 AND 19, LOCATED IN MECHANICAL ROOM. CONTRACTOR SHALL OPEN BREAKERS AND VERIFY CIRCUITS ARE DE-ENERGIZED PRIOR TO DEMOLITION. THE EXISTING TIME-SWITCH LIGHTING CONTROLS, LOCATED ADJACENT TO PANEL SL, SHALL BE REUSED.

5. LIGHT FIXTURE USED SHALL BE COMPOSED OF BRONZE COMPRESSION MOLDED POLYESTER WITH INTERNAL DIRECT ACCESS JUNCTION BOX FOR THROUGH-BRANCH WIRING. LUMINAIRE IS COMPOSED OF 26 W COMPACT FLUORSCENT, WITH WIDE FLOOD DISTRIBUTION. HOUSING CONDUIT ENTRIES ARE MOLDED ON THE SIDE FOR ENTRY/EXIT. LENS COVER SHALL BE CLEAR FLAT, AND APPROVED FOR FOOT TRAFFIC. SUGGESTED FIXTURE IS KIM LIGHTVAULT LTV/26W CFL OR APPROVED EQUAL.



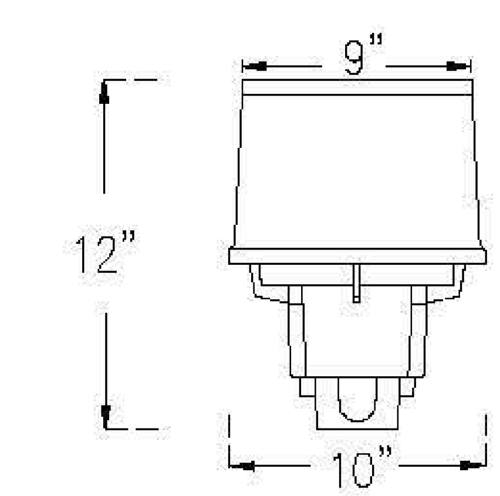
SITE PLAN



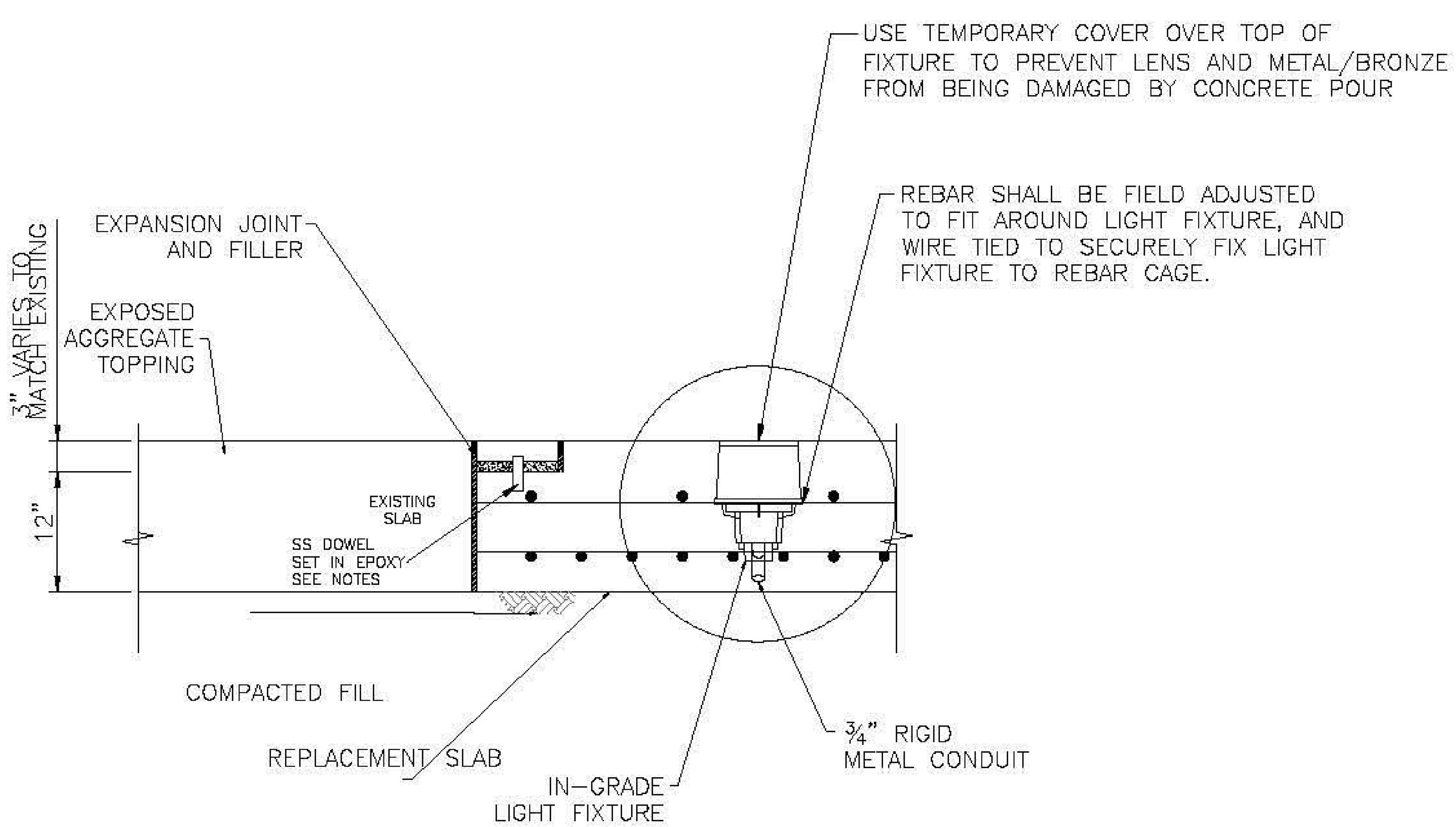
REBAR SUPPORT DETAIL
(SEE NOTE 1)

LEGEND

◆	IN-SLAB LUMINAIRE
-----------	¾" RMC
▣	UTILITY BOX
▬	POWER PANEL



IN-SLAB FIXTURE DETAIL



1
E1
FIXTURE INSTALLATION SECTION
NO SCALE

EXISTING UTILITY ACCESS AREA

20 0 20 40
1"= 20'-0"
SCALE OF FEET

DESIGNED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
WRW	E1	SITE LIGHTING	808 25005A
CADD: RBJ			PMIS/PKG NO. 128232
TECH. REVIEW: RBJ		THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	SHEET 47 OF 54
DATE: 6-15-09			

NOTES:

1. THE LOCATIONS OF UNDERGROUND UTILITIES WERE DERIVED FROM OBSERVABLE EVIDENCE AND AVAILABLE DATA FROM EXISTING PLANS.
2. CONTRACTOR SHALL CALL MISS UTILITY AND VERIFY LOCATION OF UTILITIES PRIOR TO WORK.
3. ALL ELEVATIONS SHOWN ARE BASED ON MEAN SEA LEVEL DATUM OF 1929 – NVGD 1929; NVGD 1929 DATUM IS APPROXIMATELY 1.36 FEET LOWER THAN HISTORICAL DATUM.
4. EXISTING TOPOGRAPHIC SURVEY INFORMATION BASED ON HISTORICAL DOCUMENTS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ALIGNMENTS IMPACTING EXECUTION OF WORK PRIOR TO COMMENCEMENT OF DEMOLITION.
5. CONTRACTOR SHALL RUN TEMPORARY OVERHEAD POWER FROM MANHOLE, TO STAGING AREA, DROP GATE, AND GUARD SHACK FOR POWER DURING CONSTRUCTION PHASES.

LEGEND

STAGING AREA

PLAN VIEW

20 0 20 40

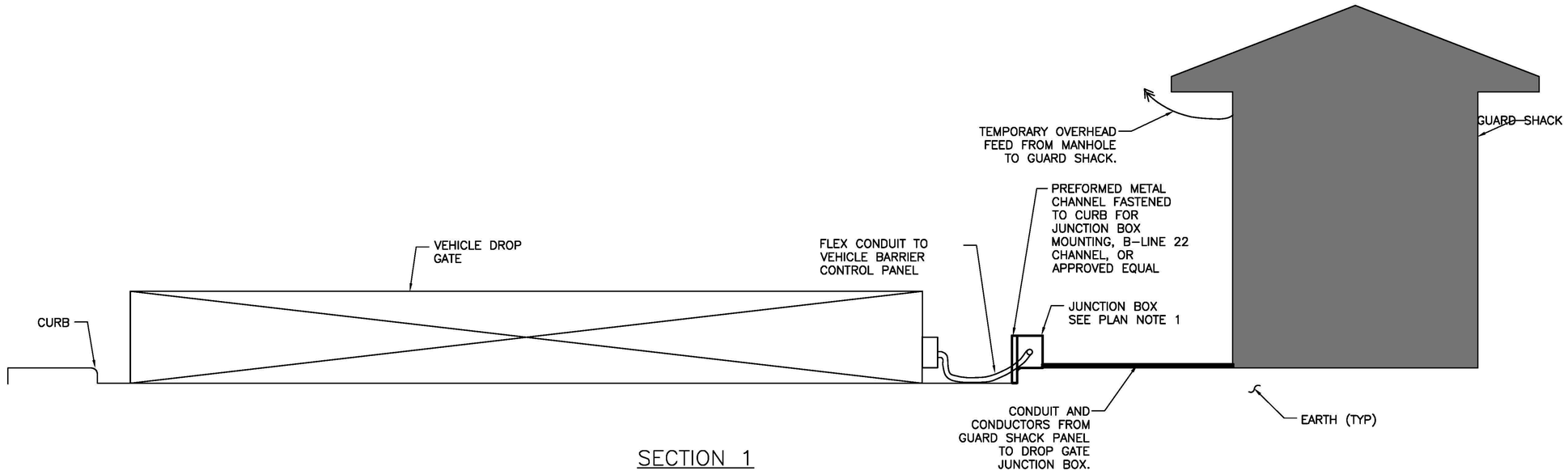
SCALE OF FEET

DESIGNED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
WRW, RBJ	E2	CONSTRUCTION ENTRANCE ELECTRICAL PLAN	808 25005A
CADD: JTP, LR, RBJ		THOMAS JEFFERSON MEMORIAL	PMIS/PKG NO. 128232
TECH. REVIEW: WRW, RBJ		NATIONAL MALL AND MEMORIAL PARKS	SHEET 48 OF 54
DATE: 6-15-09			

11/28/11 13:41 JKOTKA R18 G:\2009JOBS\09150052 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THL\E\2823\ELEC\E-2 ENTRANCE.DWG

PLAN NOTES:

1. INSTALL JUNCTION BOX, COMPRESSION–MOLDED FIBERGLASS NEMA 4X STANDARD, COVER SHALL FASTENED WITH PADLOCKABLE LATCH, AND PIANO TYPE HINGES, MATERIAL AND INSTALLATION COORDINATION SHALL BE WITH THE NATIONAL PARK SERVICE.



SECTION 1

1' 6" 0 1' 2'
SCALE OF FEET

DESIGNED: DW, JG, HR CADD: NSF, MD TECH. REVIEW: DW, JG DATE: 6–15–09	SUB SHEET NO. E3	TITLE OF SHEET CONSTRUCTION SECTIONS ELECTRICAL PLAN THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 808 25005A PMIS/PKG NO. 128232 SHEET 49 OF 54

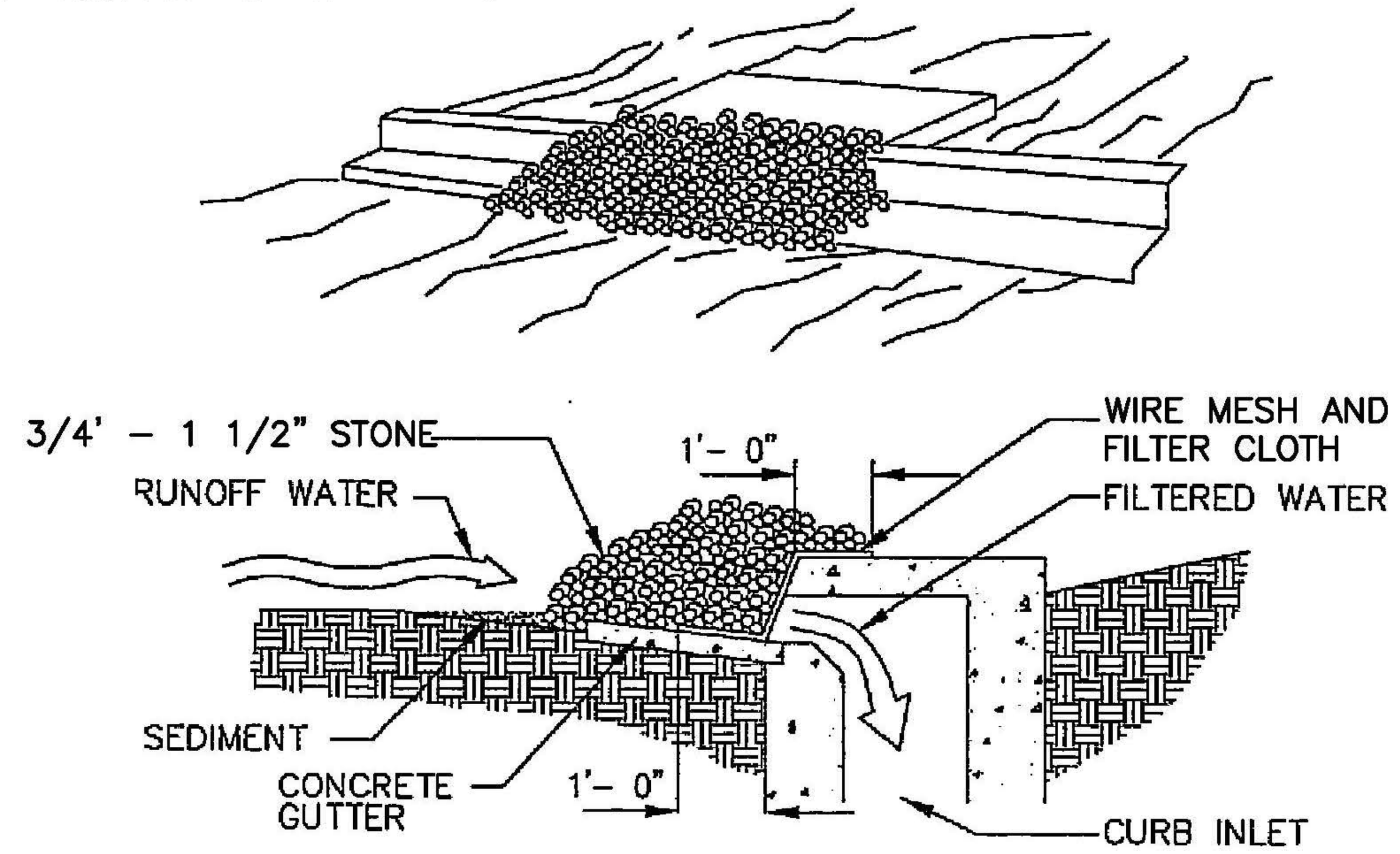
11/28/11 13:04 JAMORA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\TAE\128232\ELEC\E-3.DWG

(b) (7)(E), (b) (3)

PLAN VIEW

LEGEND

- FLOW ARROW
- APPROXIMATE 100 YEAR FLOOD ELEVATION (11.5' NGVD 1929) AND LOCATION
- SHEET PILES
- RPS — REMOVABLE PUMPING STATION
- LOD — LIMIT OF DISTURBANCE
- SSF — SUPER SILT FENCE
- JMI-01 — INCLINOMETER AND VIBRATING WIRE PIEZOMETERS (2006 & 2008)
- JMW-01 — STAND PIPE PIEZOMETERS (2006)
- JME-01 — EXTENSOMETER (2008)



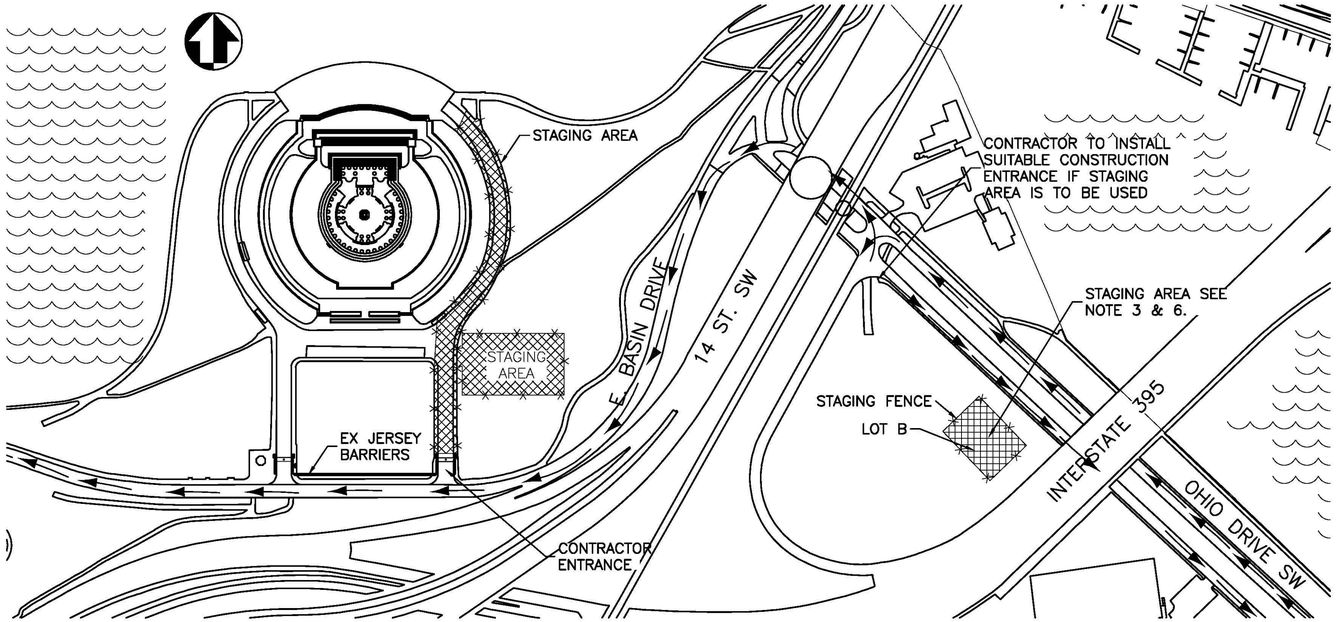
CURB INLET PROTECTION
NO SCALE

NOTES:

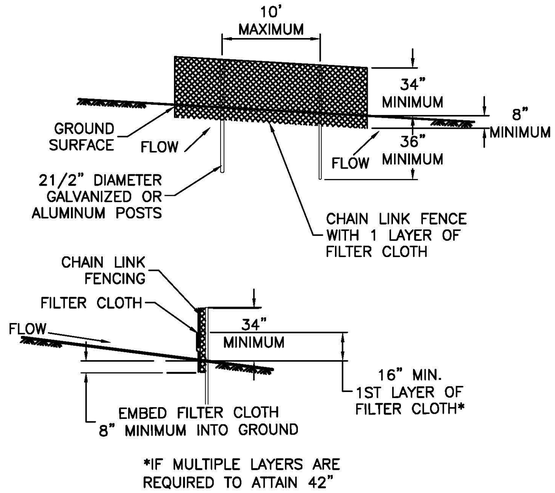
1. THE LOCATIONS OF UNDERGROUND UTILITIES WERE DERIVED FROM OBSERVABLE EVIDENCE AND AVAILABLE DATA FROM EXISTING PLANS.
2. CONTRACTOR SHALL CALL MISS UTILITY AND VERIFY LOCATION OF UTILITIES PRIOR TO WORK.
3. ALL ELEVATIONS SHOWN ARE BASED ON MEAN SEA LEVEL DATUM OF 1929 – NGVD 1929; NGVD 1929 DATUM IS APPROXIMATELY 1.36 FEET LOWER THAN HISTORICAL DATUM.
4. EXISTING TOPOGRAPHIC SURVEY INFORMATION BASED ON HISTORICAL DOCUMENTS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ALIGNMENTS IMPACTING EXECUTION OF WORK PRIOR TO COMMENCEMENT OF DEMOLITION.
5. CONTRACTOR SHALL PROTECT AND MAINTAIN EXISTING INSTRUMENTATION AND SURVEYING BENCHMARKS.
6. 100 YEAR FLOOD ELEVATION APPROXIMATELY 12.3' (NAVD 88) BASED ON FEMA FLOOD INSURANCE RATE MAP 110001 0018C. NAVD 88 DATUM IS APPROXIMATELY 0.80 FEET HIGHER THAN NGVD 1929 DATUM.
7. REMOVABLE PUMPING STATION LOCATIONS MAY BE ADJUSTED OR ADDITIONAL STATIONS MAY BE INSTALLED TO FACILITATE CONSTRUCTION.
8. LOCATION(S) OF TEMPORARY DEWATERING STATION(S) TO BE SUBMITTED BY CONTRACTOR AND APPROVED BY CONTRACTING OFFICER.

30 0 30 60
SCALE OF FEET

DESIGNED: DW, JW	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO. 808 25005A
CADD: NSF, JM	ES1	EROSION AND SEDIMENT CONTROL PLAN	PMIS/PKG NO. 128232
TECH. REVIEW: PIW, JG		THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	SHEET 51 OF 54
DATE: 6-15-09			

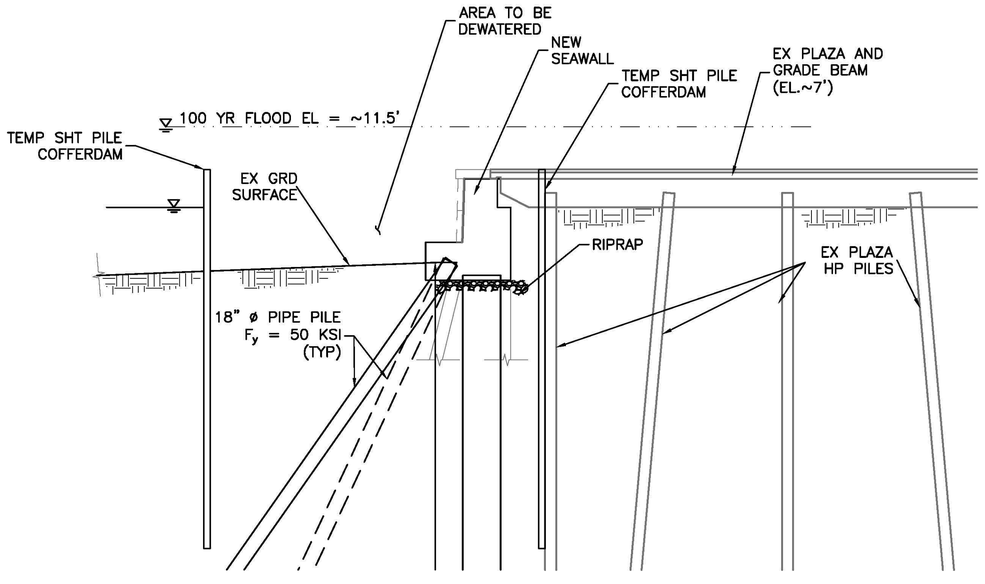


PLAN VIEW
SCALE (A)



*IF MULTIPLE LAYERS ARE REQUIRED TO ATTAIN 42"

SUPER SILT FENCE
NO SCALE



NORTH PLAZA – SECTION VIEW
SCALE (B)

DEWATERING NOTES
1. GENERAL: ALL DEWATERING MUST BE CONDUCTED THROUGH AN APPROVED FILTRATION DEVICE.
2. INITIAL DEWATERING FROM WITHIN THE SHEET PILE SHALL BE FILTERED USING A 75–MICRON BAG FILTER. THE DISCHARGE SHALL BE DIRECTED TO THE TIDAL BASIN BETWEEN THE SHEET PILE WALL AND THE TURBIDITY CURTAIN.
3. THE REMOVABLE PUMPING STATIONS SHALL BE INSTALLED AFTER THE INITIAL DEWATERING. THE REMOVABLE PUMPING STATIONS MAY BE RELOCATED TO FACILITATE CONSTRUCTION ACTIVITIES WITH THE APPROVAL OF THE ENGINEER.
4. ALL MAINTENANCE OR ROUTINE DEWATERING SHALL BE PUMPED FROM THE REMOVABLE PUMP STATIONS. FILTERING THE WATER MAY BE CONDUCTED IN THE SAME MANNER AS THE INITIAL DEWATERING, EXCEPT DISCHARGING TO A TEMPORARY DEWATERING STATION OR MAY BE DISCHARGED INTO AN APPROVED PUMPED WATER FILTER BAG ON AN APPROVED WELL VEGETATED AREA OR TEMPORARY DEWATERING STATION. THE PUMPED WATER FILTER BAG SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.
5. CONTRACTOR SHALL PROVIDE EVIDENCE TO THE CONTRACTING OFFICER FOR APPROVAL THAT THE SEWERS ARE INTACT PRIOR TO DIRECTING FILTERED DISCHARGE WATER TO SEWER. TURBIDITY CURTAIN SHALL BE INSTALLED AROUND THE SEWER OUTLET IN THE TIDAL BASIN AND INLET FILTER BAGS IN THE MANHOLES.
6. INLET FILTER BAGS, IF USED, SHALL MEET THE REQUIREMENTS OF DETAIL 7A IN THE STANDARDS, AND CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.

TEMPORARY SEEDING
1. DURING THE DATES OF MARCH 1 TO APRIL 30 AND AUGUST 15 TO NOVEMBER 15, THE TEMPORARY SEED MIX SHALL BE RYE AND APPLIED AT A RATE OF 140 LBS./ACRE. DURING THE DATES OF MAY 1 TO AUGUST 14, THE TEMPORARY SEED MIX SHALL BE MILLET AND APPLIED AT A RATE OF 50 LBS./ACRE. APPLY FERTILIZER (10–10–10) AT A RATE OF 600 LB/ACRE, LIME AT 2 TONS PER ACRE AND MULCH AT 2 TONS PER ACRE.
2. TEMPORARY SEED STOCKPILES AND DISTURBED AREAS.

PERMANENT STABILIZATION
1. REFER TO SPECIFICATION 32 92 00 SOIL AND SOD, FOR THE PERMANENT STABILIZATION MEASURES REQUIRED PRIOR TO PROJECT COMPLETION.

SCALE (A) 150 0 150 300
SCALE OF FEET

SCALE (B) 8 0 8 16
SCALE OF FEET

NOTE:
GEOMETRY BASED ON HISTORICAL DOCUMENTS PROVIDED BY NPS. MUST BE VERIFIED IN FIELD.

LEGEND

- STAGING FENCE
- TRAFFIC FLOW TO AND FROM OFF SITE STAGING AREA
- STAGING AREA

NOTES
1. REFER TO SHEET T1 GENERAL NOTES.
2. USE OF THE INLET BRIDGE FOR EQUIPMENT AND MATERIAL TRANSPORTATION OR OTHER CONSTRUCTION TRAFFIC IS PROHIBITED.
3. CONTRACTOR MAY USE ADDITIONAL LOT B STAGING AREA SHOWN ON OHIO DRIVE. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIR AND MAINTENANCE OF THE AREA. THE CONTRACTOR SHALL RESTORE THE AREA BY REMOVING FENCING AND GRAVEL AND REPLACING IT WITH TOPSOIL AND SOD AT THE END OF THE PROJECT.
4. CONTRACTOR SHALL DETERMINE BRIDGE CLEARANCE REQUIREMENTS FOR ACCESS TO AND FROM LOT B STAGING AREA.
5. MATERIALS SHALL NOT BE STACKED HIGHER THAN 5' IN STAGING AREA.
6. INSTALL SILT FENCE IN STAGING AREAS IN DOWNGRADIENT.

SUPER SILT FENCE CONSTRUCTION SPECIFICATIONS

1. FENCING SHALL BE 42" IN HEIGHT AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST MARYLAND STATE HIGHWAY DETAILS FOR CHAIN LINK FENCING. THE SPECIFICATION FOR A 6' FENCE SHALL BE USED, SUBSTITUTING 42" FABRIC AND 6' LENGTH POSTS.

2. CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES. THE LOWER TENSION WIRE, BRACE AND TRUSS RODS, DRIVE ANCHORS AND POST CAPS ARE NOT REQUIRED EXCEPT ON THE ENDS OF THE FENCE.

3. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT THE TOP AND MID SECTION.

4. FILTER CLOTH SHALL BE EMBEDDED A MINIMUM OF 8" INTO THE GROUND.

5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.

6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT BUILDUPS REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE, OR WHEN SILT REACHES 50% OF FENCE HEIGHT

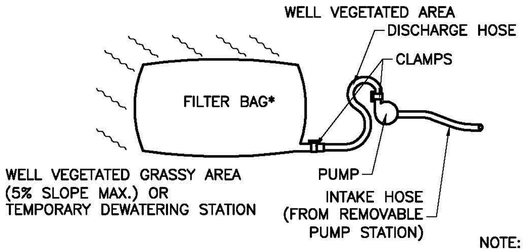
7. FILTER CLOTH SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F:

TENSILE STRENGTH	50 LBS/IN (MIN.)	TEST: ASTM D–4595
TENSILE MODULUS	20 LBS/IN (MIN.)	TEST: ASTM D–4595
FLOW RATE	0.3 GAL/FT /MINUTE (MAX.)	TEST: ASTM D–5141
FILTERING EFFICIENCY	75% (MIN.)	TEST: ASTM D–5141

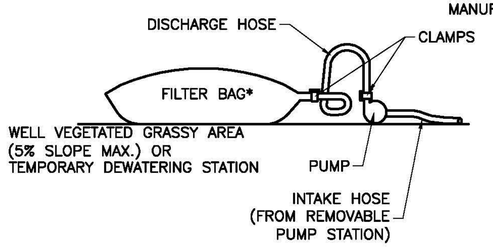
DESIGNED: DW, JG, HR	SUB SHEET NO.	TITLE OF SHEET: EROSION AND SEDIMENT CONTROL PLAN	DRAWING NO. 808 25005A
CADD: NSF, MD, JM	ES2	THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	PMIS/PKG NO. 128232
TECH. REVIEW: DW, JG			SHEET 52 OF 54
DATE: 6–15–09			

11/1/11 09:14 JMIKITKA R18 G:\2009\08S\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THJE\128232\GEN\ES2 EROSION CONTROL.DWG XREFS: ..\BASES\XC-BASEMAP.DWG; ..\BASES\XC-SUPER SILT FENCE.DWG;

PUMPED WATER FILTER BAG



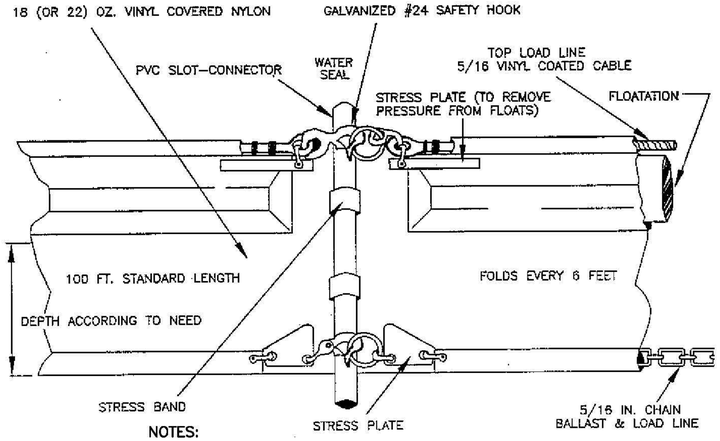
PLAN VIEW



NOTE:
PUMPING SHALL BE A MAXIMUM OF 750 GPM OR 1/2 OF THE MAXIMUM SPECIFIED BY THE MANUFACTURER.

ELEVATION VIEW

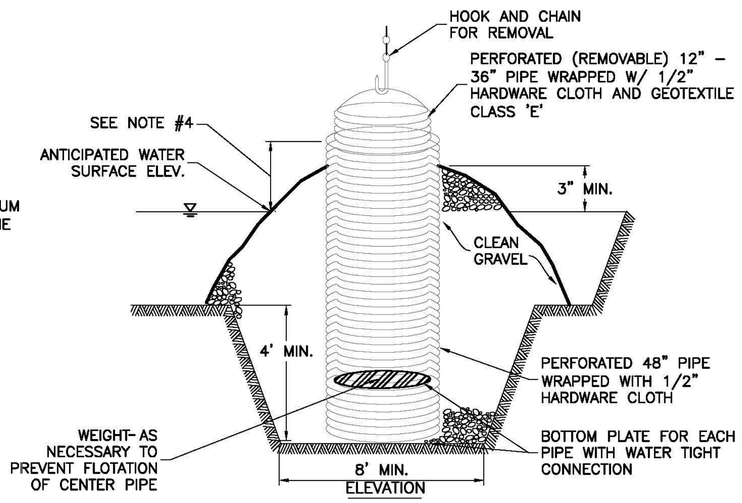
TURBIDITY CURTAIN TYPE II



NOTES:

1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. TURBIDITY CURTAIN SHALL BE STAKED OR ANCHORED (ON BOTH SIDES) AT A MAXIMUM OF 100'.
3. MAINTAIN TURBIDITY CURTAIN 5 TO 10' FROM SHEETPILE OR AS OTHERWISE APPROVED BY CONTRACTING OFFICER.

REMOVABLE PUMPING STATION



ELEVATION

CONSTRUCTION SPECIFICATIONS

1. THE OUTER PIPE SHOULD BE 48" DIA. OR SHALL, IN ANY CASE, BE AT LEAST 4" GREATER IN DIAMETER THAN THE CENTER PIPE. THE OUTER PIPE SHALL BE WRAPPED WITH 1/2" HARDWARE CLOTH TO PREVENT BACKFILL MATERIAL FROM ENTERING THE PERFORATIONS.
2. AFTER INSTALLING THE OUTER PIPE, BACKFILL AROUND OUTER PIPE WITH 2" AGGREGATE OR CLEAN GRAVEL.
3. THE INSIDE STAND PIPE (CENTER PIPE) SHOULD BE CONSTRUCTED BY PERFORATING A CORRUGATED OR PVC PIPE BETWEEN 12" AND 36" IN DIAMETER. THE PERFORATIONS SHALL BE 1/2" X 6" SLITS OR 1" DIAMETER HOLES 6" ON CENTER. THE CENTER PIPE SHALL BE WRAPPED WITH 1/2" HARDWARE CLOTH FIRST, THEN WRAPPED AGAIN WITH GEOTEXTILE CLASS E.
4. PIPES EXTEND 12" TO 18" ABOVE THE ANTICIPATED WATER SURFACE ELEVATION OR RISER CREST ELEVATION WHEN DEWATERING A BASIN.

GENERAL NOTES

1. LIMIT OF DISTURBANCE (LOD) IS APPROXIMATELY 1.3 ACRES. APPROXIMATELY 2,000 CY OF FILL WILL BE PLACED BEHIND NEW SEAWALL.
2. THE CONTRACTOR SHALL CALL THE INSPECTION/ENFORCEMENT BRANCH, WATERSHED PROTECTION DIVISION, DISTRICT DEPARTMENT OF THE ENVIRONMENT AT (202) 535–2240 FOR A PRE–CONSTRUCTION MEETING 1 WEEK PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY.
3. A COPY OF THE APPROVED E&S PLAN MUST BE MAINTAINED AT THE CONSTRUCTION SITE THROUGHOUT THE DURATION OF THE PROJECT.
4. EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED AND FUNCTIONAL BEFORE DISTURBANCE OCCURS WITHIN THE AREAS OF THOSE CONTROLS.
5. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED AND AFTER FINAL APPROVAL BY DDOE E&S INSPECTOR, TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.
6. AT THE END OF EACH WORKING DAY, ANY SEDIMENT TRACKED OR CONVEYED ONTO A PUBLIC ROADWAY WILL BE REMOVED AND REDEPOSITED ONTO THE CONSTRUCTION SITE. REMOVAL CAN BE COMPLETED THROUGH USE OF MECHANICAL OR HAND TOOLS, BUT MUST NEVER BE WASHED OFF THE ROAD BY USE OF WATER.
7. SHOULD UNFORESEEN EROSIVE CONDITIONS DEVELOP DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INCREASED RUNOFF AND/OR SEDIMENT DISPLACEMENT.
8. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE DISTRICT OF COLUMBIA MUNICIPAL REGULATIONS, SPECIFICALLY, CHAPTER 5 OF TITLE 21, AND CHAPTER 31 OF TITLE 20, AS WELL AS THE DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (STANDARDS)."
9. REFER TO SPECIFICATION 31 25 00 FOR ADDITIONAL E&S REQUIREMENTS.

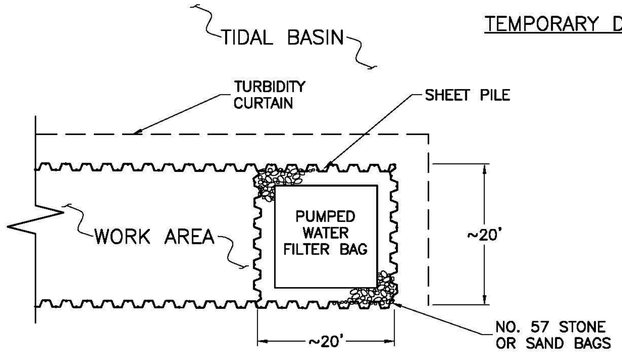
SOILS

1. SOILS ADJACENT TO THE JEFFERSON MEMORIAL ARE LINSIDE LOAM (LD) ACCORDING TO THE NATURAL RESOURCES CONSERVATION SERVICE 1975 SOIL SURVEY. REFER TO THE E&S PLAN FOR ADDITIONAL INFORMATION REGARDING THIS SOIL TYPE.
2. SOILS THAT ARE ANTICIPATED TO BE DISTURBED WITHIN THE SHEET PILE WALL ARE FILL SOILS. THESE SOILS ARE GENERALLY SILTS AND CLAYS.

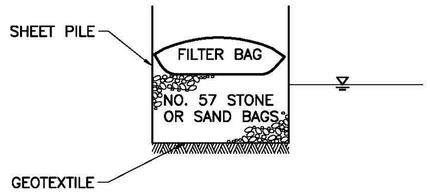
CONSTRUCTION SEQUENCE (FOR EROSION AND SEDIMENT CONTROL PURPOSES)

1. GENERAL: ALL ACTIVITIES SHALL BE SEQUENCED TO MINIMIZE THE LENGTH OF TIME ANY AREA REMAINS DENUDED. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF DISTURBING ACTIVITIES.
2. INITIAL WATER SAMPLING TO OBTAIN BASELINE TURBIDITY AND TMDL POLLUTANT LEVELS. COLLECT SEDIMENT SAMPLES.
3. INSTALLATION OF THE TURBIDITY CURTAIN, SILT FENCE AND CURB INLET PROTECTION.
4. DEMOLITION OF PORTIONS OF THE SEAWALL, SIDEWALK AND NORTH PLAZA. REMOVE AND STORE FACING STONES AND GRANITE.
5. INSTALLATION OF THE TEMPORARY SHEET PILE WALL.
6. SECOND WATER SAMPLING TO DETERMINE EFFECTIVENESS OF TURBIDITY CURTAIN.
7. INITIAL DEWATERING OF THE WORK AREA INSIDE THE SHEET PILE WALL.
8. INSTALLATION OF PUMPED WATER FILTER BAG, REMOVABLE PUMPING STATIONS, AND TEMPORARY DEWATERING STATIONS.
9. THIRD WATER SAMPLING TO DETERMINE EFFECTIVENESS OF TURBIDITY CURTAIN.
10. COMPLETE DEMOLITION OF THE SEAWALL AND EXCAVATE AND DISPOSE SOILS.
11. INSTALL CAISSONS AND PIPE PILES, CAST CONCRETE SEAWALL, BACKFILL BEHIND SEAWALL, CAST SLABS, SIDEWALKS AND STAIRS, COMPLETE NORTH PLAZA, AND REPLACE FACING STONES; DEWATERING WORK AREA AS NECESSARY THROUGH APPROVED FILTER DEVICE.
12. INSTALL THE STORM WATER TREATMENT SYSTEM (MANHOLE AND INTERNAL COMPONENTS).
13. AFTER THE WORK IS COMPLETE, ALLOW AREA INSIDE SHEET PILE WALL TO FILL WITH WATER IN A CONTROLLED MANNER THAT WILL MINIMIZE DISTURBANCE OF SOILS.
14. REMOVAL OF SHEET PILE WALL. COLLECT SEDIMENT SAMPLES.
15. WATER SAMPLING TO DETERMINE EFFECTIVENESS OF TURBIDITY CURTAIN.
16. SEED DISTURBED AREAS AS NECESSARY.
17. REMOVE TURBIDITY CURTAIN (A MINIMUM OF 12 HOURS AFTER LAST DISTURBANCE).
18. DEMOBILIZATION OF TEMPORARY CONSTRUCTION FACILITIES AND RESTORATION OF THOSE AREAS.
19. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AFTER VEGETATION STABILIZATION.
20. FINAL WATER SAMPLING.

TEMPORARY DEWATERING STATION



PLAN VIEW



ELEVATION VIEW

NOTES:

1. LOCATION(S) OF TEMPORARY DEWATERING STATION(S) TO BE SUBMITTED BY CONTRACTOR AND APPROVED BY CONTRACTING OFFICER.
2. ALL SEDIMENT AND STONE OR SANDBAGS SHALL BE REMOVED AT THE END OF WORK.
3. INSTALL PERFORATIONS IN SHEET PILES AT THE TOP OF STONE OR SANDBAGS TO THE LOW WATER ELEVATION TO ACCOMMODATE ANTICIPATED FLOWS.
4. NO. 57 STONE OR SANDBAGS SHALL BE INSTALLED TO A HEIGHT ABOVE THE AVERAGE HIGH WATER ELEVATION.

DESIGNED: DW, JW CADD: NSF, JM TECH. REVIEW: PIW, JG DATE: 6–15–09	SUB SHEET NO. ES3	TITLE OF SHEET EROSION AND SEDIMENT DETAILS AND NOTES THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	DRAWING NO. 800 25005A PMIS/PKG NO. 128232 SHEET 53 OF 54

11/1/11 09:15 JWIKTRA R18 G:\2009JOBS\09150062 JEFFERSON MEMORIAL TITLE III SERVICES\CADD\AS BUILTS\THE\128232\GEN\ES3 DETAILS-NOTES.DWG XREFS: ..\BASES\VS-FILTER BAG.DWG; ..\BASES\VS-PUMPING STATION.DWG; ..\BASES\VS-SILT FENCE.DWG; IMAGES: ..\BASES\VC-TURBIDITY.TIF;

AS-BUILT CERTIFICATION BY PROFESSIONAL ENGINEER

Within 21 days after completion of construction of the stormwater discharge facility, please send this page to the Watershed Protection Division - Department of Health.

1. *Stormwater discharge facility information:*

Source Name: Jefferson Memorial

Source Location: Street: 900 Ohio Drive SW

City: Washington DC 20242

DCRA Permit No.: B1001834

Date Issued: 12/09/09

2. *As Built Certification*

I hereby certify that stormwater discharge facility has been built substantially in accordance with the approved plans and specifications, and that any substantial deviations (noted below) will not prevent the system from functioning in compliance with the requirements of Section 526 through 535 of DCMR-21, Chapter 5 when properly maintained and operated. These determinations have been based upon on-site observation of construction, scheduled and conducted by me or by a project representative under my direct supervision. I have enclosed one set of as-built engineering drawings.

[signature] Darrell Wilder PE #901827

Signature of Engineer — Name (Please Type) D.C. Reg. No.

Affix Seal: DISTRICT OF COLUMBIA — DARRELL S. WILDER — PE901827 — REGISTERED PROFESSIONAL ENGINEER

Schnabel Engineering

Company Name

1380 Wilmington Pike

Company Address

West Chester PA 19382

Date: 11/3/11 Phone No. 610-696-6066

Substantial deviations from the approved plans and specifications (attach additional sheets if required).

- Manhole backfilled with #57 stone

STATEMENT BY PERSON RESPONSIBLE FOR MAINTENANCE

The undersigned agrees to maintain and operate the discharge facilities in such a manner as to comply with the provisions of Section 526 through 535 of DCMR-21, Chapter 5. Responsibility for maintenance and operation may be transferred to another entity upon written notice to the Watershed Protection Division of the Department of Health from the undersigned and the entity assuming responsibility, certifying that the transfer of responsibility for maintenance and operation in compliance with Section 526 through 535 of DCMR-21, Chapter 5 has been accepted.

[signature]

Signature of the person responsible for maintenance (it may be the applicant)

SUPERINTENDENT, NATIONAL MALL & MEMORIAL PARKS

Name and Title (please type)

900 Ohio Drive SW

Address Washington DC 20242

Date ______ Phone No: ______

STATEMENT BY PROFESSIONAL ENGINEER REGISTERED IN THE DISTRICT OF COLUMBIA

This is to certify that the engineering features of this stormwater discharge facility have been designed / examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of stormwater pollutants. I further certify that the facility has been designed in accordance with the specification required under Section 526 through 535 of DCMR-21, Chapter 5. It is also stated that the undersigned has furnished the applicant with a set of instructions for the maintenance and operation of the stormwater discharge facility.

DARRELL S. WILDER

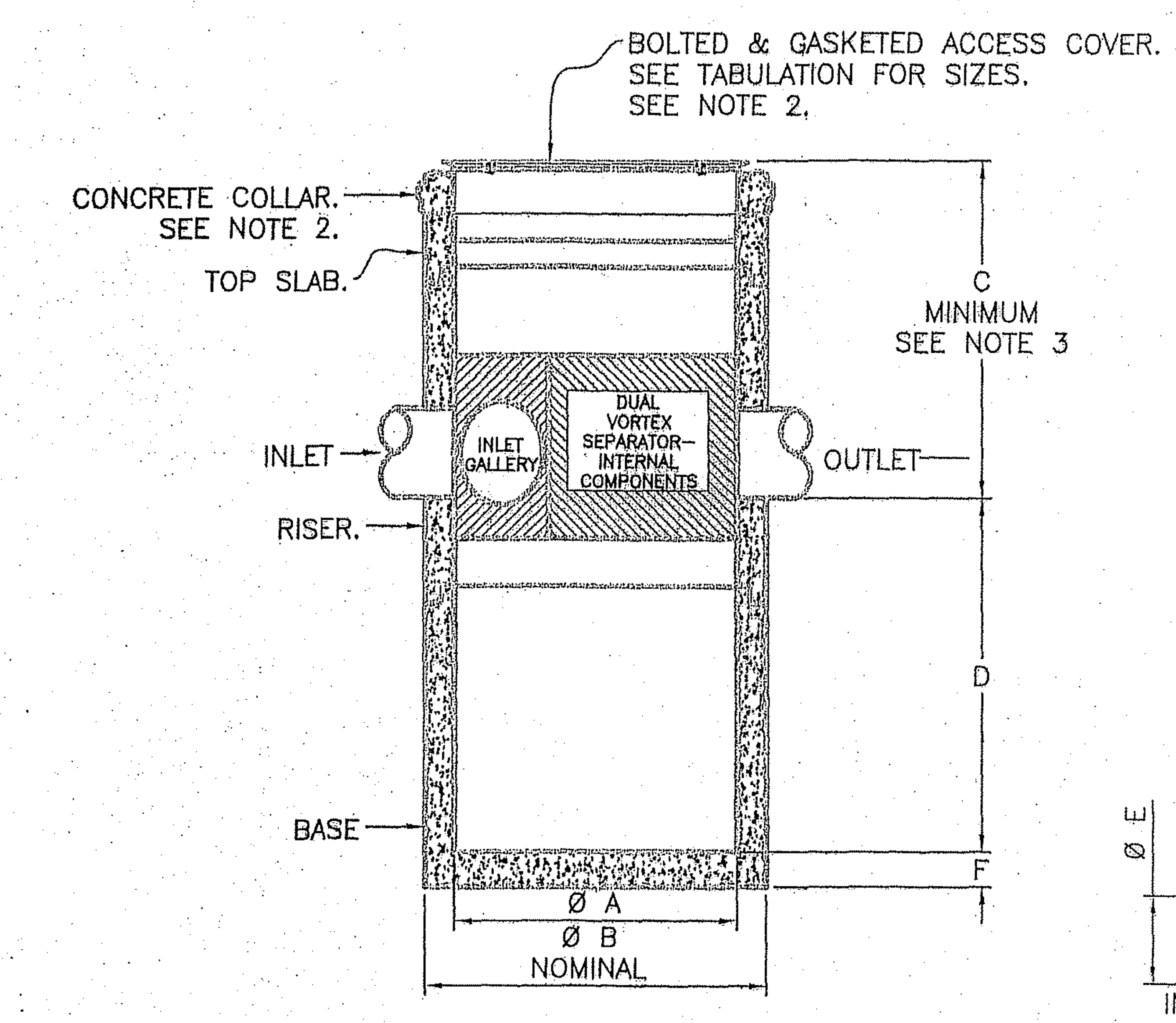
Name and Title (please type)

516 EAST GAY STREET

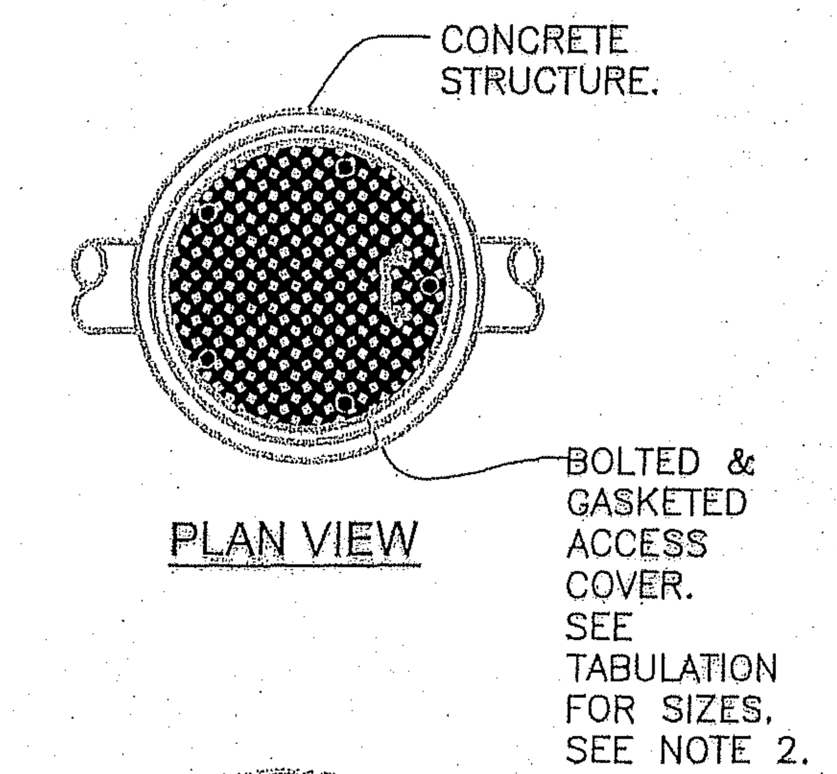
Address WEST CHESTER, PA 19380

Date 4-24-09 Phone No: 610-696-6066

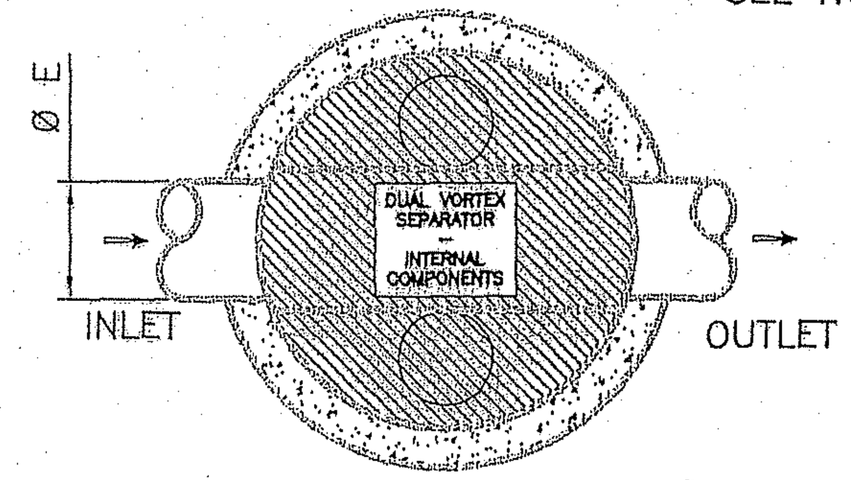
Affix Seal: DISTRICT OF COLUMBIA — DARRELL S. WILDER — PE901827 — REGISTERED PROFESSIONAL ENGINEER



MANHOLE DETAIL
(W/KRISTAR DVS-60C COMPONENTS)
N.T.S.



PLAN VIEW



SECTION A-A

TABULATION

MODEL	Ø A	Ø B	C SEE NOTE 3	D	E MAX. Ø PIPE	F	COVER SIZE
DVS-60C	60"	72"	42" MIN	75"	24"	8"	Ø48"

NOTES:

1. INTERNAL COMPONENTS MODEL DVS-60C BY KRISTAR ENTERPRISES INC. INTERNAL COMPONENTS SHALL BE REMOVABLE TO FACILITATE MAINTENANCE.
2. BOLTED & GASKETED MANHOLE ACCESS COVER ELEVATION SHALL BE ADJUSTED TO GRADE. FIELD POUR CONCRETE COLLAR TO SECURE COVER TO SEPARATOR. CONCRETE COLLAR SHALL BE 12" MIN. FROM TOP SLAB. ONLY THE MANHOLE COVER SHALL BE VISIBLE ABOVE GRADE.
3. 42" MIN. ADJUST HEIGHT TO GRADE.
4. CONCRETE COMPONENTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM DESIGNATION C478.
5. CONTRACTOR SHALL CONFIRM INLET AND OUTLET PIPE INVERTS, DIAMETERS AND ORIENTATION PRIOR TO ORDERING MANHOLE AND KRISTAR COMPONENTS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE MANHOLE. A KRISTAR REPRESENTATIVE WILL INSTALL INTERNAL COMPONENTS.
7. PROTECT THE EXISTING ADJACENT SIDEWALK FROM DAMAGE DURING EXCAVATION AND INSTALLATION.
8. DISPOSE OF ANY SURPLUS SOILS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REQUIRED EXCAVATION SUPPORT. REFER TO SPECIFICATION 31 52 00.
10. ALL BACKFILL SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR.
11. CONTRACTOR SHALL MAKE SEWER CONNECTIONS TO THE MANHOLE WATER TIGHT, BY USING NON-SHRINK GROUT OR OTHER APPROVED MATERIALS.
12. DEWATER EXCAVATION PER SPECIFICATION 31 23 19.
13. SOD DISTURBED AREAS IN ACCORDANCE WITH SPECIFICATION 32 92 00.

TEMPORARY EXCAVATION SUPPORT:

1. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR MANHOLE INSTALLATION. DESIGN OF TEMPORARY SUPPORT SHALL BE PROVIDED BY AN ENGINEER REGISTERED IN THE DISTRICT OF COLUMBIA AND SUBMITTED ACCORDING TO SPECIFICATION 01 33 00. TEMPORARY SUPPORT SHALL BE REMOVED FOLLOWING COMPLETION OF WORK.

CONSTRUCTION AND INSPECTION SCHEDULE:

1. NO CONSTRUCTION OF THE MANHOLE AND ASSOCIATED COMPONENTS SHALL BE PERFORMED WITHOUT THE DEPARTMENT OF HEALTH (DOH) INSPECTOR AND THE CONTRACTING OFFICER RESPONSIBLE FOR CERTIFYING THE AS-BUILT DRAWINGS.
2. CONTRACTOR SHALL NOTIFY THE DOH 24 HOURS IN ADVANCE OF INSTALLATION OF THE MANHOLE.
3. A FINAL INSPECTION OF THE MANHOLE AND COMPONENTS SHALL BE CONDUCTED BY THE DOH AFTER THE INSTALLATION IS COMPLETE.
4. INSPECT THE AREA AFTER INITIAL EXCAVATION.
5. INSPECT DURING INSTALLATION OF THE MANHOLE AND ASSOCIATED COMPONENTS.
6. INSPECT DURING SEWER CONNECTIONS.
7. INSPECT DURING BACKFILLING AROUND THE STRUCTURE.
8. INSPECT FINAL GRADING AND PERMANENT STABILIZATION.

POST-CONSTRUCTION MAINTENANCE SCHEDULE

1. INSPECT EVERY 6 MONTHS, REMOVE FLOATING MATERIAL. MAINTAIN RECORDS OF ALL POST-CONSTRUCTION MAINTENANCE.
2. REMOVE SEDIMENT EVERY 6 MONTHS WITH A VACUUM TRUCK. FREQUENCY MAY BE REDUCED AFTER THE FIRST YEAR BASED ON SITE CONDITIONS. SUBMIT RECORDS AND WASTE MANIFESTS TO THE DOH.
3. CLEAN MANHOLE AND COMPONENTS EVERY 2 YEARS, OR AS OTHERWISE REQUIRED.

TIME OF CONCENTRATION

SHEET FLOW
MANNINGS N = 0.15; FLOW LENGTH (L) = 50 FT; 2-YR RAINFALL (P2) = 2.17 INCHES; SLOPE (S) = 0.01 FT/FT
TT = .007(NL)^.8/(P2^0.5*S^0.4) = 0.15 HR

SHALLOW CONCENTRATED FLOW
SURFACE = UNPAVED; L = 290 FT; S = 0.012 FT/FT; AVG VELOCITY (V) = 1.77 FP
TT = L/(3600V) = 0.05 HR

PIPE FLOW
L = 214 FT; S = 0.5%; DIAMETER (D) = 1.5 FT; V** = 4 FPS

TT = L*V = 0.01 HR
TC = 0.21 HR
*REF: PROCEDURE FROM SCS TR-55, URBAN HYDROLOGY FOR SMALL WATERSHEDS (JUNE 1986) FOR SHEET AND SHALLOW FLOW
**THE AVERAGE PIPE VELOCITY WAS ASSUMED.

Q2 AND Q15
Q = CIA, WHERE:
Q = FLOW RATE (CFS); C = RUNOFF COEFFICIENT; I = RAINFALL INTENSITY (IN/HR);
A = DRAINAGE AREA (ACRES)

	NORTH PLAZA (DISTURBED AREA)			
	PRE 2-YR	POST 2-YR	PRE 15-YR	POST 15-YR
C*	0.35	0.9	0.35	0.9
I ** (in/hr)	4.1	4.1	5.9	5.9
A (acres)	1.3	1.3	1.3	1.3
Q (cfs)	1.9	4.8	2.7	6.9
	SOUTHERN AREA OF THE MEMORIAL (EQUIVALENT TREATMENT AREA)			
	PRE 2-YR	POST 2-YR	PRE 15-YR	POST 15-YR
C*	0.35	0.60	0.35	0.60
I ** (in/hr)	4.1	4.1	5.9	5.9
A (acres)	2.6	2.6	2.6	2.6
Q (cfs)	3.7	6.4	5.4	9.3

*C IS ASSUMED TO BE GRASS FOR PRE-CONSTRUCTION EVALUATION AND IS WEIGHTED BASED ON SITE CONDITIONS FOR POST-CONSTRUCTION.
**I IS BASED ON THE CALCULATED TC DURATION (~12 MINUTES FOR POST-CONSTRUCTION CONDITIONS) AND AN INTERPOLATED INTENSITY FROM TABLE A2 IN THE GUIDEBOOK.

FIRST FLUSH TREATMENT VOLUME
VW = R * IA * (1/12) WHERE:
VW = WATER QUALITY TO BE TREATED (FT3); R = RUNOFF DEPTH TO BE TREATED (IN), FROM TABLE 2.2 IN THE GUIDEBOOK;
IA = IMPERVIOUS AREA (FT2); 12 = CONVERSION FACTOR

	LOD AREA	EQVLNT AREA
R (IN)*	0.3	0.4
IA (FT2)	57,000	114,000
VW (FT3)	1,425	3,800

*ASSUMES RUNOFF WILL BE 0.5" AND 0.3" FOR IMPERVIOUS & VEGETATED AREAS, RESPECTIVELY.

PEAK DISCHARGE FOR WATER QUALITY STORM FOR HYDRODYNAMIC SEPARATOR
WEIGHTED VOLUMETRIC RUNOFF COEFFICIENT (RV) IS:
RV = 0.05 + 0.009(I): I = 1.3/2.7 ACRES = 0.48 (48%)
RV = 0.05 + 0.009(48%) = 0.48
RUNOFF, QA = P X RV = 1.0" X 0.48 = 0.48 WATERSHED INCHES

CN FOR WATER QUALITY STORM IS
CN = 1000 / [10 + 5(1.0") + 10(0.48) − 10XSQRT(0.48^2 + 1.25X0.48X1.0)] = 93.5

PEAK DISCHARGE QP (CFS)
USING: TC = 12 MINUTES,
IA = (200/CN)−2 = 0.14,
IA/P = 0.14/1.0 = 0.14,
QU = 750 CSM/IN (FROM TR-55 EXHIBIT 4-II)
QP = QU*A*QA = 750 CSM/IN. X 0.0042 SQ. MI.X 0.48"
QP = 1.5 CFS, WHICH IS ACCEPTABLE FOR THE KRISTAR DVS-60 HYDRODYNAMIC SEPARATOR

MODEL	ID	DEPTH BLW INVERT	TREATED Q (110μm)	PEAK Q	TOTAL Q	SEDIMENT STORAGE
	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(cy)
DVS-60	5.0	6.3	1.3	2.5	16.0	1.3

Seal: DISTRICT OF COLUMBIA — DARRELL S. WILDER — PE901827 — REGISTERED PROFESSIONAL ENGINEER

20 0 20 40
SCALE OF FEET

DESIGNED: DW, JW	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO. 808 25005A
CADD: NSF	ES4	STORM WATER MANAGEMENT	PMIS/PKG NO. 128232
TECH. REVIEW: PIW, JG		THOMAS JEFFERSON MEMORIAL NATIONAL MALL AND MEMORIAL PARKS	SHEET 54 OF 54
DATE: 6-15-09			