

PLANS PREPARED FOR WASHINGTON'S HEADQUARTERS

VILLAGE OF DOBBS FERRY
WESTCHESTER COUNTY, NEW YORK

OWNER:

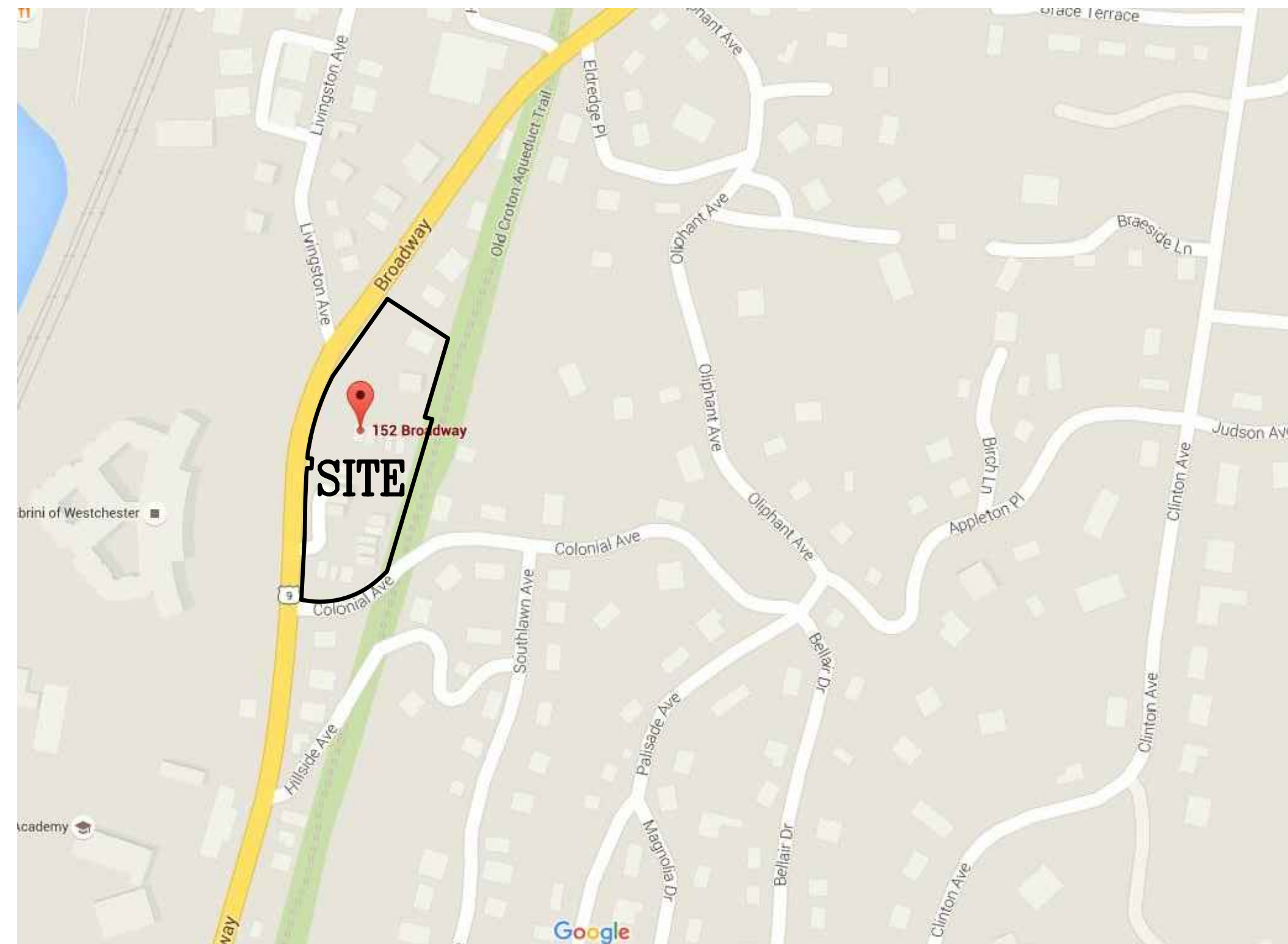
WASHINGTON'S HEADQUARTERS CONDOMINIUM ASSOCIATION
152 BROADWAY
VILLAGE OF DOBBS FERRY
TOWN OF GREENBURGH
NEW YORK, NY 10522

LAND SURVEYOR:

BROOKER ENGINEERING P.L.L.C.
46 NORTH CENTRAL AVENUE
RAMSEY, NEW JERSEY 07446
(201)-684-1211

STRUCTURAL/SITE ENGINEER:

BROOKER ENGINEERING P.L.L.C.
74 LAFAYETTE AVENUE, SUITE 501
SUFFERN, NEW YORK 10901
(845) 357-4411



VICINITY MAP
SCALE: N.T.S.

LIST OF DRAWINGS

- T-001 TITLE PAGE
- C-001 BOUNDARY & TOPOGRAPHIC SURVEY
- C-002 DRAINAGE MAINTENANCE PLAN
- C-003 CONSTRUCTION DETAILS
- S-001 WALL LAYOUT PLAN
- S-002 WALL PROFILES
- S-003 SUPPORT OF EXCAVATION DETAILS & NOTES
- S-004 STRUCTURAL DETAILS (1 OF 2)
- S-005 STRUCTURAL DETAILS (2 OF 2)

REV	DESCRIPTION	BY	DATE
4	REVISED PER SCOPE REVIEW DATED 8/20/2018	PB	9/6/2018
3	RE-ISSUED FOR CONSTRUCTION	AR	5/9/2018
2	ISSUED FOR CONSTRUCTION	AR	5/16/2016
1	90% PROGRESS SET	AR	3/4/2016

DISCLAIMER:
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PROJECT:
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152 BROADWAY
VILLAGE OF DOBBS FERRY, TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

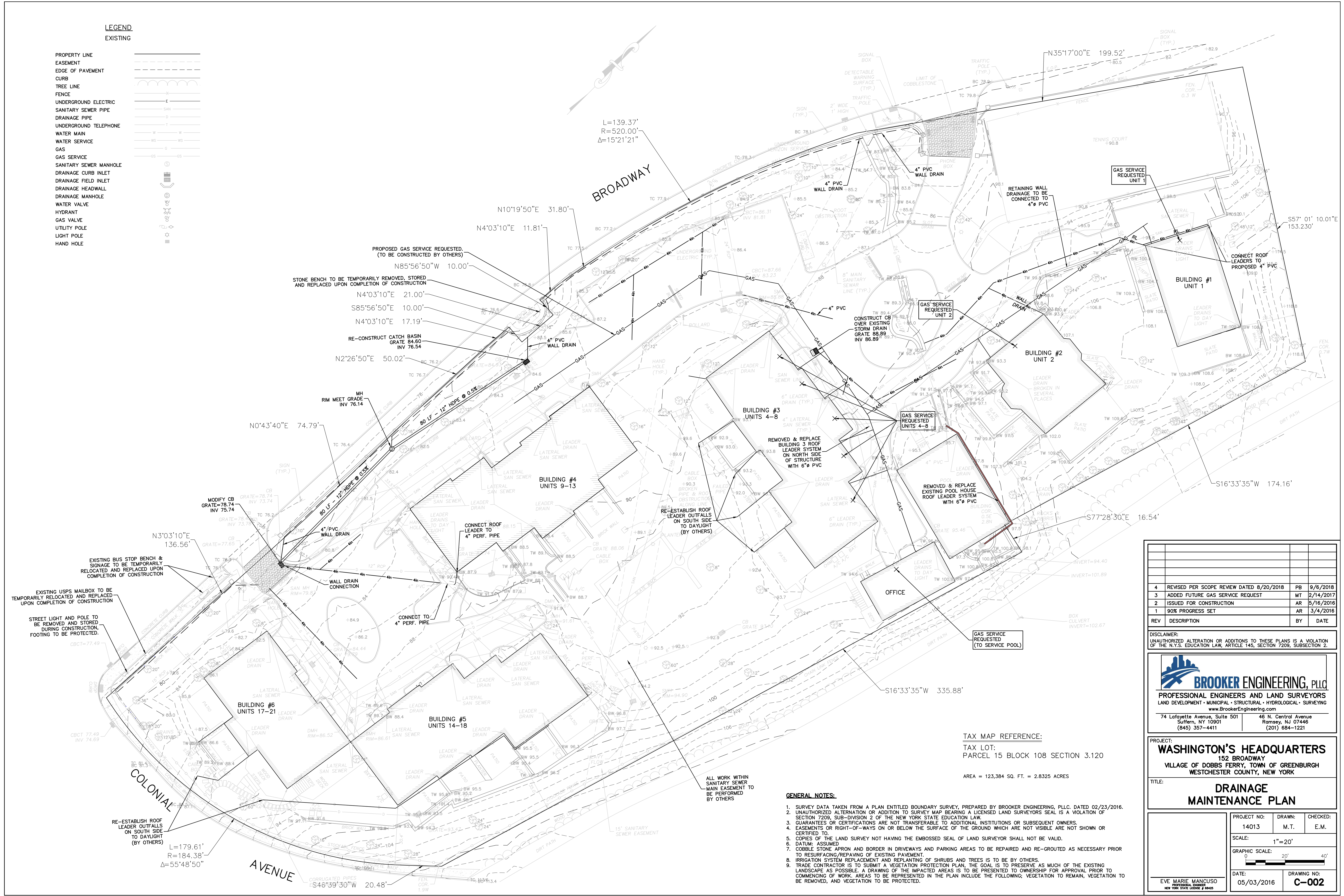
TITLE:
TITLE PAGE

	PROJECT NO:	DRAWN:	CHECKED:
	14013	JO	AR
	SCALE:	AS SHOWN	
	GRAPHIC SCALE:		
DATE:	DRAWING NO:		
05/16/2016	T-001		

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CONSULTING ENGINEERS
LAND USE DEVELOPMENT • STRUCTURAL HYDROLOGICAL
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phone: (845) 357-4411 fax: (845) 357-1896

LEGEND
EXISTING

- PROPERTY LINE
- EASEMENT
- EDGE OF PAVEMENT
- CURB
- TREE LINE
- FENCE
- UNDERGROUND ELECTRIC
- SANITARY SEWER PIPE
- DRAINAGE PIPE
- UNDERGROUND TELEPHONE
- WATER MAIN
- WATER SERVICE
- GAS
- GAS SERVICE
- SANITARY SEWER MANHOLE
- DRAINAGE CURB INLET
- DRAINAGE FIELD INLET
- DRAINAGE HEADWALL
- DRAINAGE MANHOLE
- WATER VALVE
- HYDRANT
- GAS VALVE
- UTILITY POLE
- LIGHT POLE
- HAND HOLE



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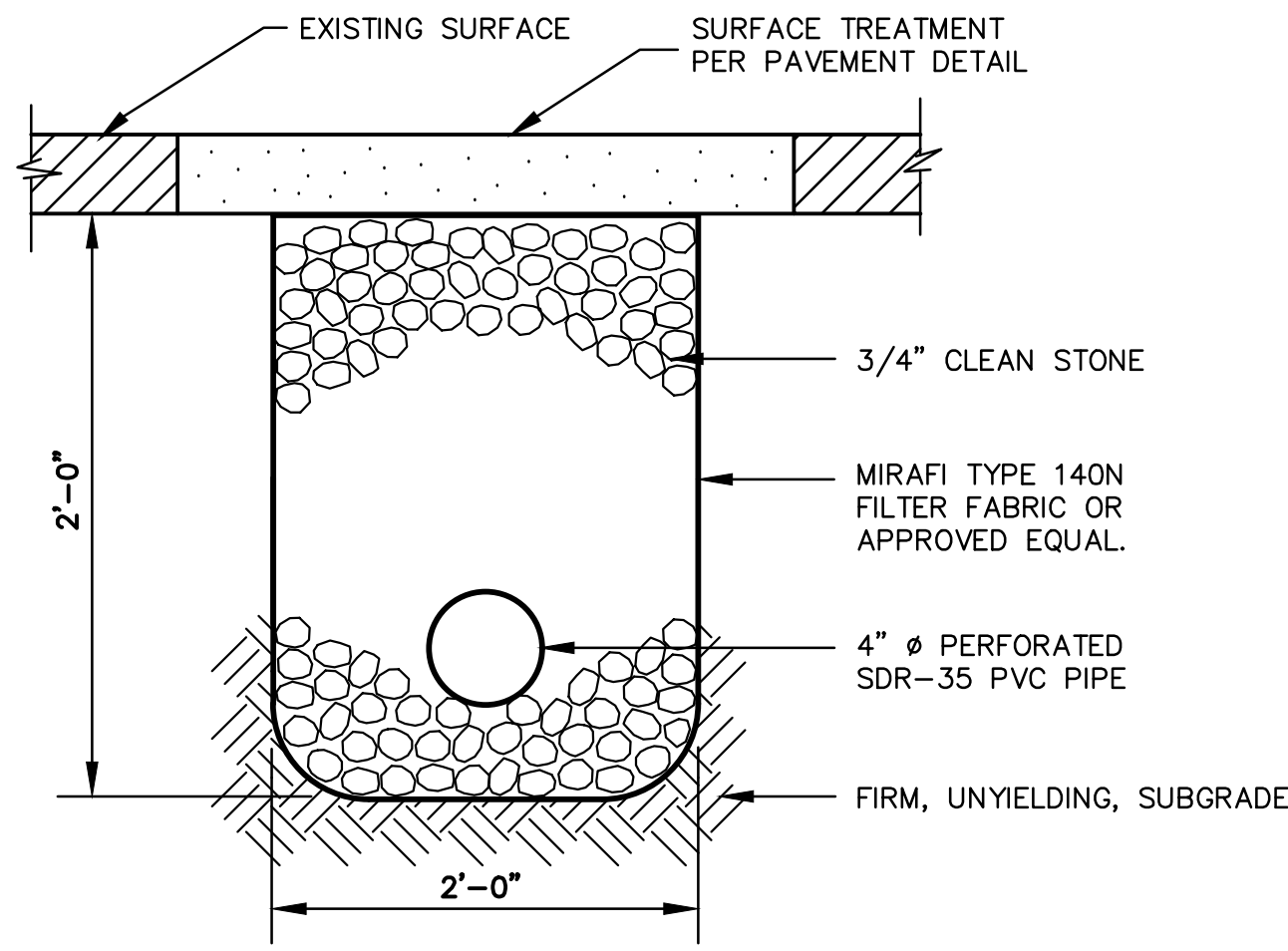
TITLE:
DRAINAGE MAINTENANCE PLAN

PROJECT NO: 14013	DRAWN: M.T.	CHECKED: E.M.
SCALE: 1"=20'		
GRAPHIC SCALE: 0 20' 40'		
DATE: 05/03/2016	DRAWING NO: C-002	

TAX MAP REFERENCE:
TAX LOT:
PARCEL 15 BLOCK 108 SECTION 3.120
AREA = 123,384 SQ. FT. = 2.8325 ACRES

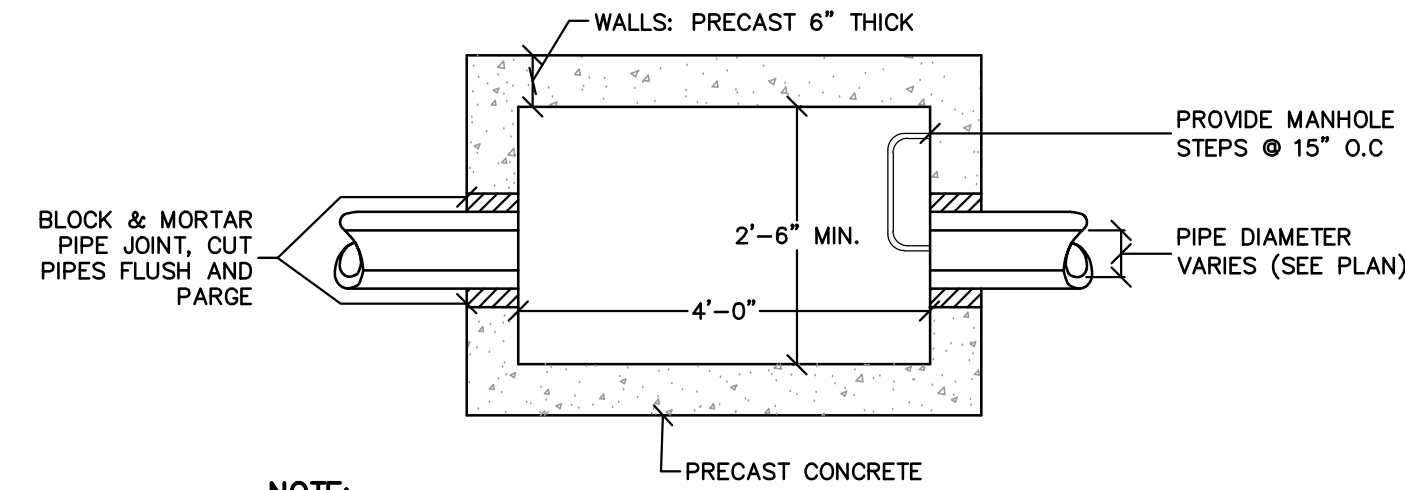
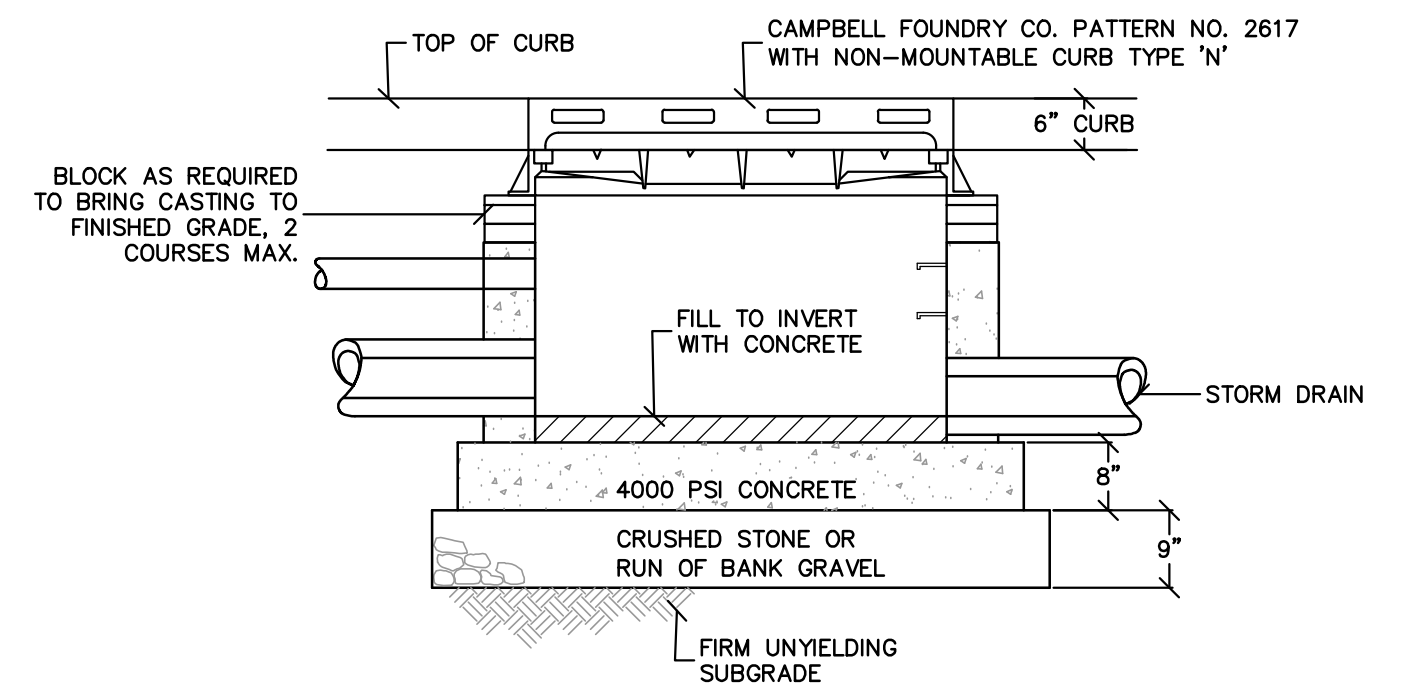
- GENERAL NOTES:**
1. SURVEY DATA TAKEN FROM A PLAN ENTITLED BOUNDARY SURVEY, PREPARED BY BROOKER ENGINEERING, PLLC, DATED 02/23/2016.
 2. UNAUTHORIZED ALTERATION OR ADDITION TO SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.
 3. GUARANTEES OR CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.
 4. EASEMENTS OR RIGHT-OF-WAYS ON OR BELOW THE SURFACE OF THE GROUND WHICH ARE NOT VISIBLE ARE NOT SHOWN OR CERTIFIED TO.
 5. COPIES OF THE LAND SURVEY NOT HAVING THE EMBOSSED SEAL OF LAND SURVEYOR SHALL NOT BE VALID.
 6. DATUM: ASSUMED
 7. COBBLE STONE APRON AND BORDER IN DRIVEWAYS AND PARKING AREAS TO BE REPAIRED AND RE-GROUTED AS NECESSARY PRIOR TO RESURFACING/REPAVING OF EXISTING PAVEMENT.
 8. IRRIGATION SYSTEM REPLACEMENT AND REPLANTING OF SHRUBS AND TREES IS TO BE BY OTHERS.
 9. TRADE CONTRACTOR IS TO SUBMIT A VEGETATION PROTECTION PLAN, THE GOAL IS TO PRESERVE AS MUCH OF THE EXISTING LANDSCAPE AS POSSIBLE. A DRAWING OF THE IMPACTED AREAS IS TO BE PRESENTED TO OWNERSHIP FOR APPROVAL PRIOR TO COMMENCING OF WORK. AREAS TO BE REPRESENTED IN THE PLAN INCLUDE THE FOLLOWING; VEGETATION TO REMAIN, VEGETATION TO BE REMOVED, AND VEGETATION TO BE PROTECTED.

ALL WORK WITHIN
SANITARY SEWER
EASEMENT TO
BE PERFORMED
BY OTHERS



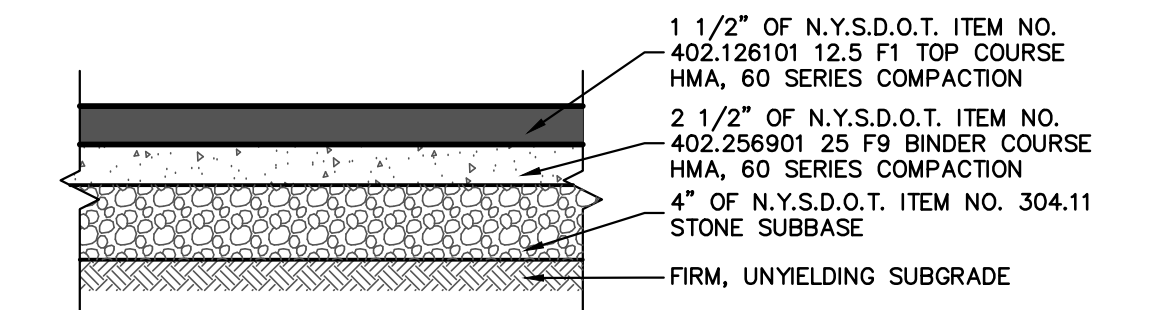
NOTE: PRICE INCLUDES ALL ELBOWS & FITTINGS AS REQUIRED & ALL LABOR, EQUIPMENT, & MATERIAL TO TIE AND GROUT INTO INLETS OR DAYLIGHT AS SHOWN ON PLANS

UNDERDRAIN DETAIL
N.T.S.

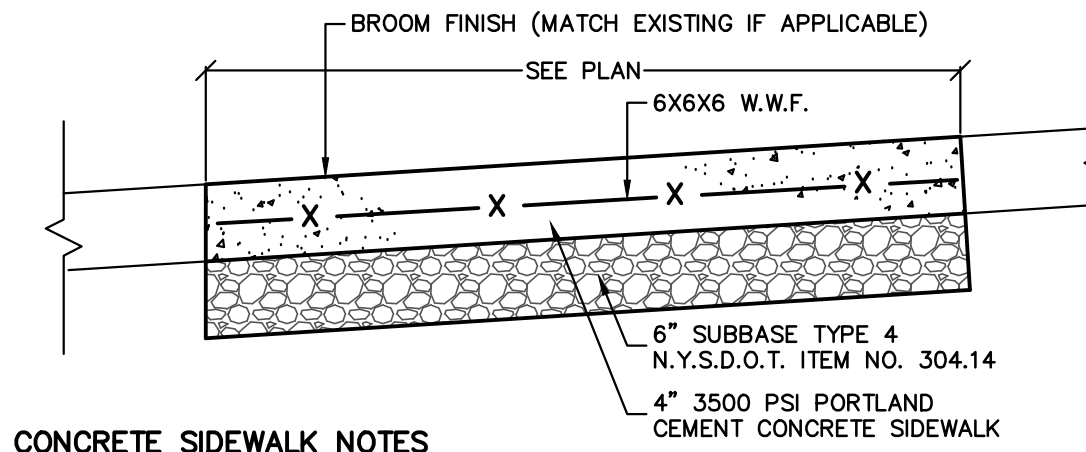


NOTE: MINIMUM STRENGTH CONCRETE 4000 PSI WALL THICKNESS 6" WITH ADEQUATE STEEL REINFORCEMENT TO WITHSTAND H20 HIGHWAY LOAD AND SOIL LOADS.

CATCH BASIN DETAIL
N.T.S.



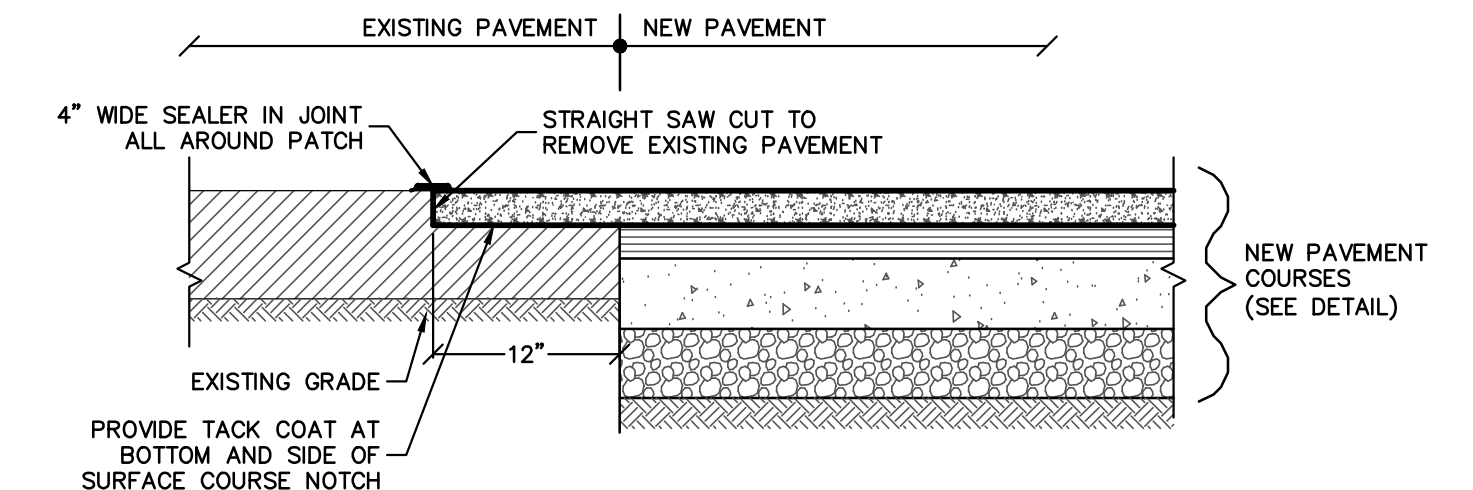
PARKING LOT PAVEMENT SECTION
N.T.S.



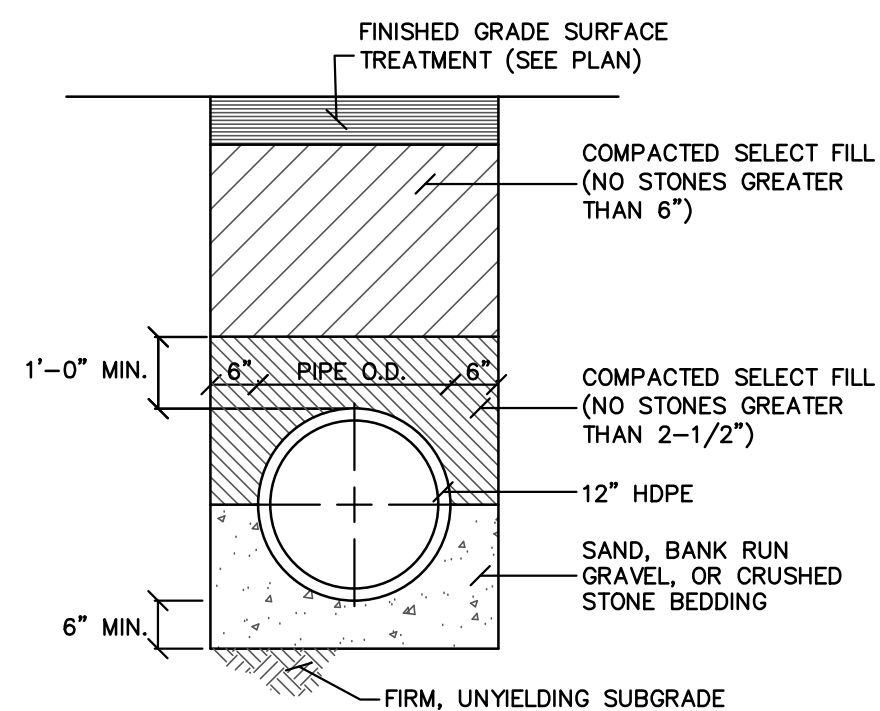
CONCRETE SIDEWALK NOTES

1. FULL DEPTH TRANSVERSE CONSTRUCTION JOINTS SHALL BE PLACED EVERY 18-20 FEET.
2. CONCRETE SURFACE SHALL BE SCORED AND TOOLED EVERY 5 FEET.
3. ALL EDGES SHALL BE FINISHED WITH AN EDGING TOOL WITH A RADIUS OF 1/4 INCH.
4. A 3/4 INCH BITUMINOUS JOINT FILLER SHALL BE PLACED AT ALL JOINTS BETWEEN SIDEWALK, CURB, PAVEMENT, BUILDING, ETC.
5. THE CONCRETE SHALL BE FINISHED TO PRODUCE A SMOOTH FINISH AND THEN LIGHTLY BROOMED TO A UNIFORM TEXTURE.
6. A CLEAR MEMBRANE CURING COMPOUND SHALL BE USED UPON COMPLETION OF FINISHING.
7. ALL SIDEWALKS SHALL ADHERE TO ADA GUIDELINES.

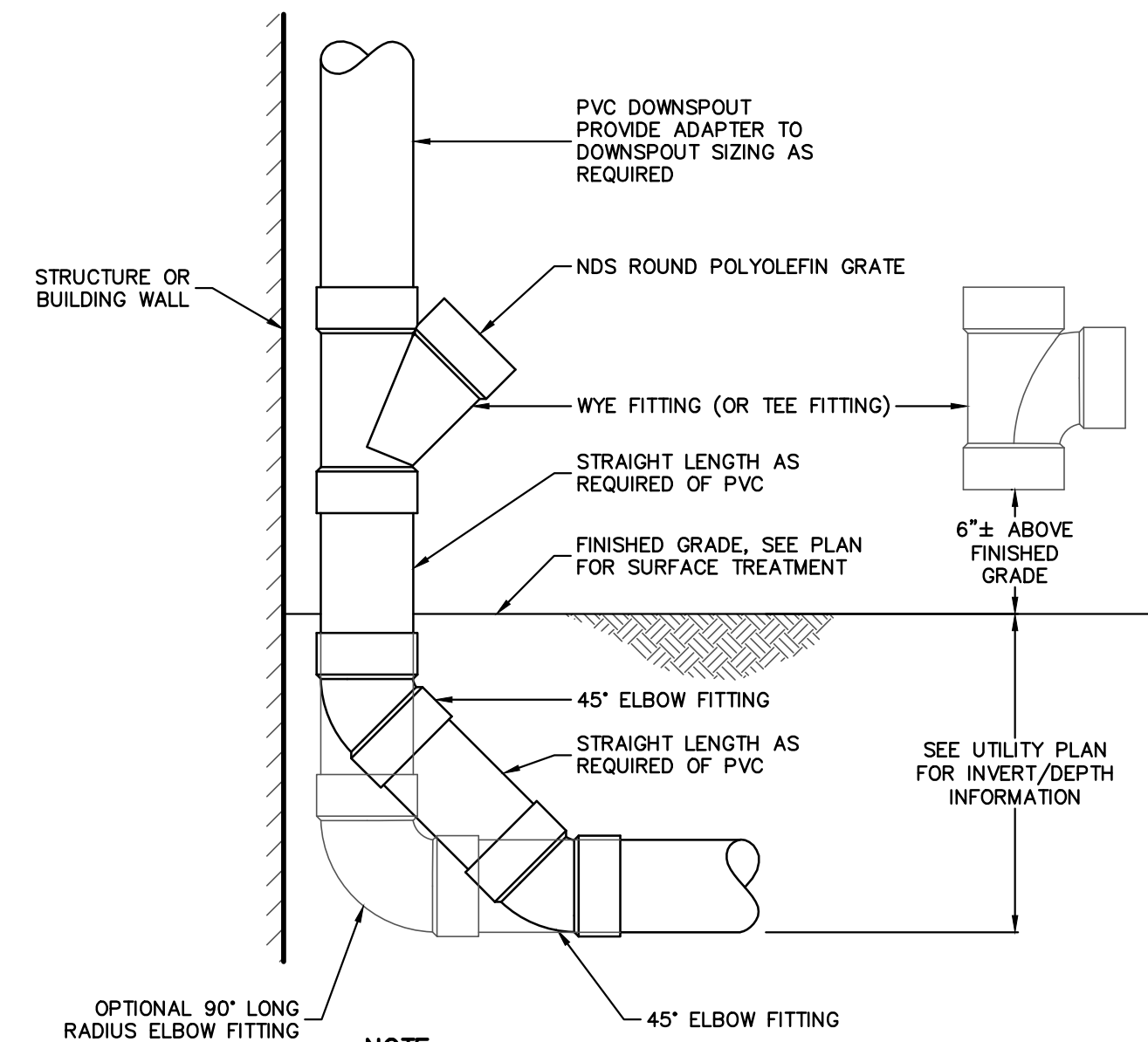
CONCRETE SIDEWALK DETAIL
N.T.S.



PAVEMENT BUTTING DETAIL
N.T.S.

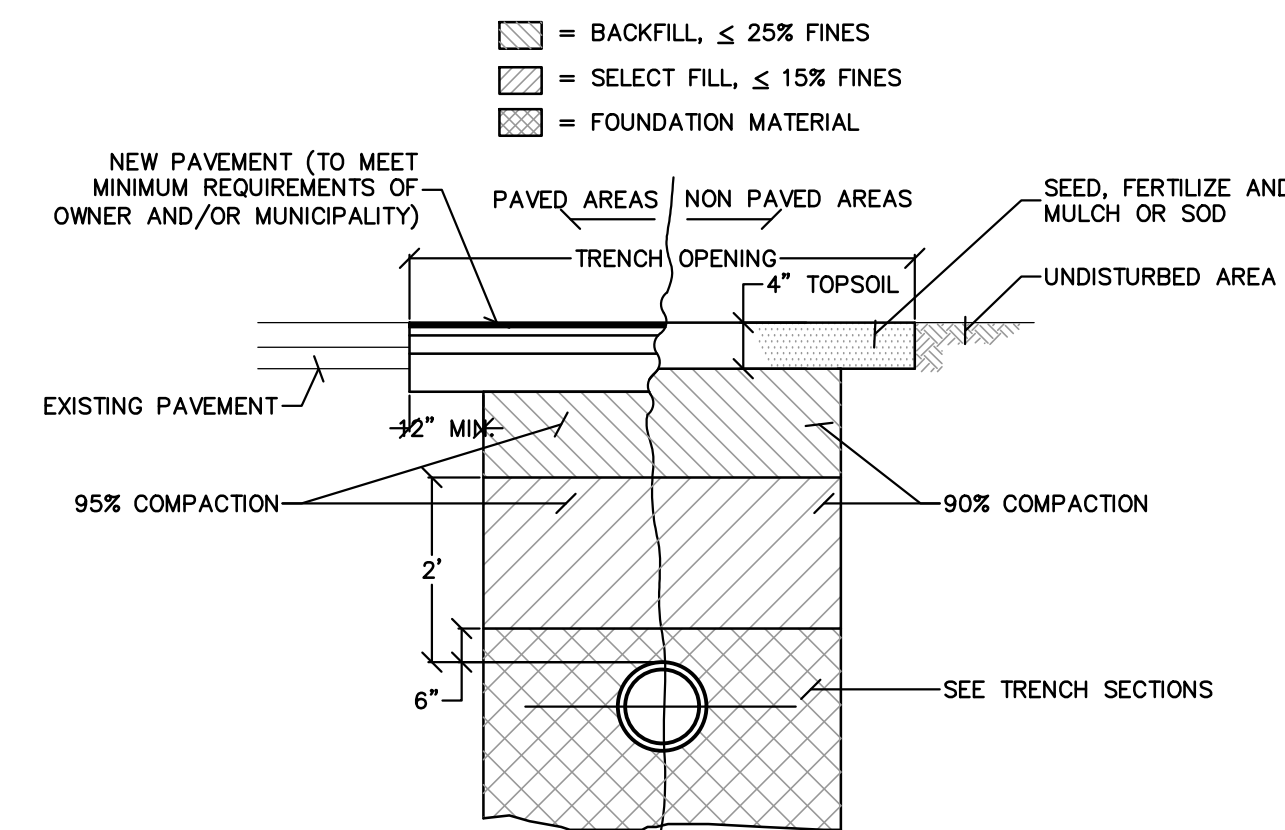


STORM PIPE BEDDING DETAIL
N.T.S.



NOTE: ALL PIPE SHALL BE SDR 35 UNLESS OTHERWISE NOTED. SEE UTILITY PLAN FOR SIZING.

ROOF LEADER CLEANOUT DETAIL
N.T.S.



PIPE TRENCH BACKFILL DETAIL
R.C.S.D. NO.1
N.T.S.

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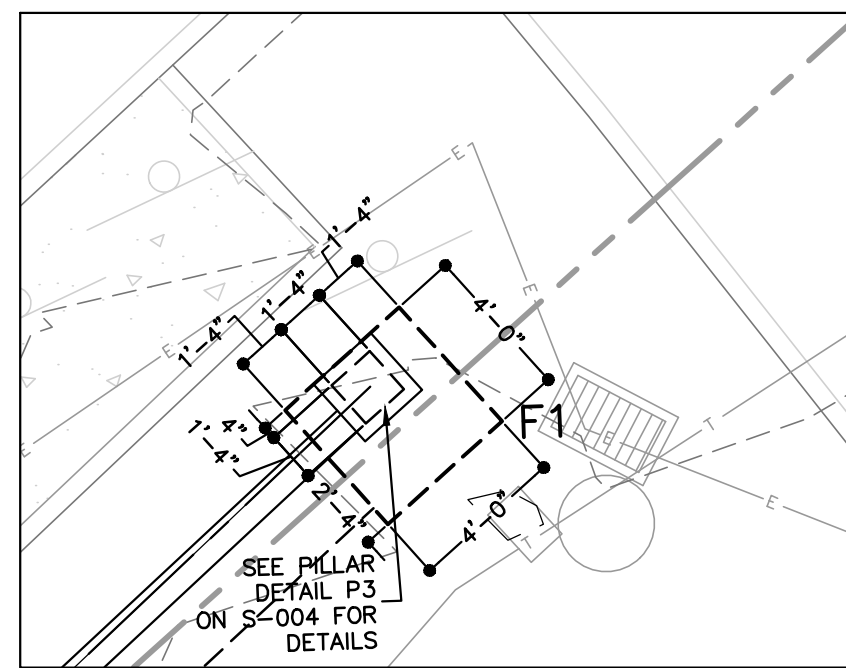
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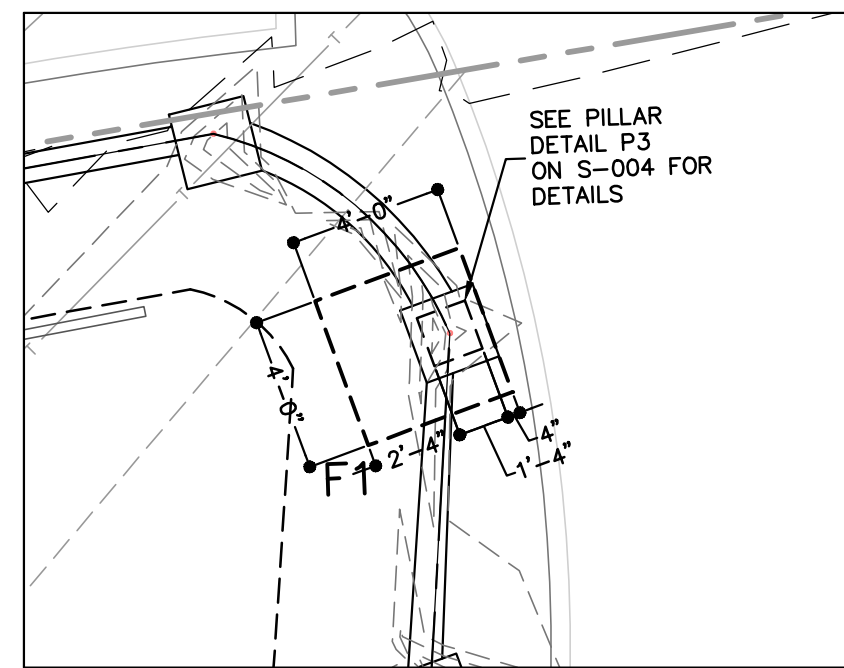
TITLE:
CONSTRUCTION DETAILS

PROJECT NO: 14013	DRAWN: M.T.	CHECKED: E.M.
SCALE: 1"=20'		
GRAPHIC SCALE: 0 20' 40'		
DATE: 05/03/2016	DRAWING NO: C-003	

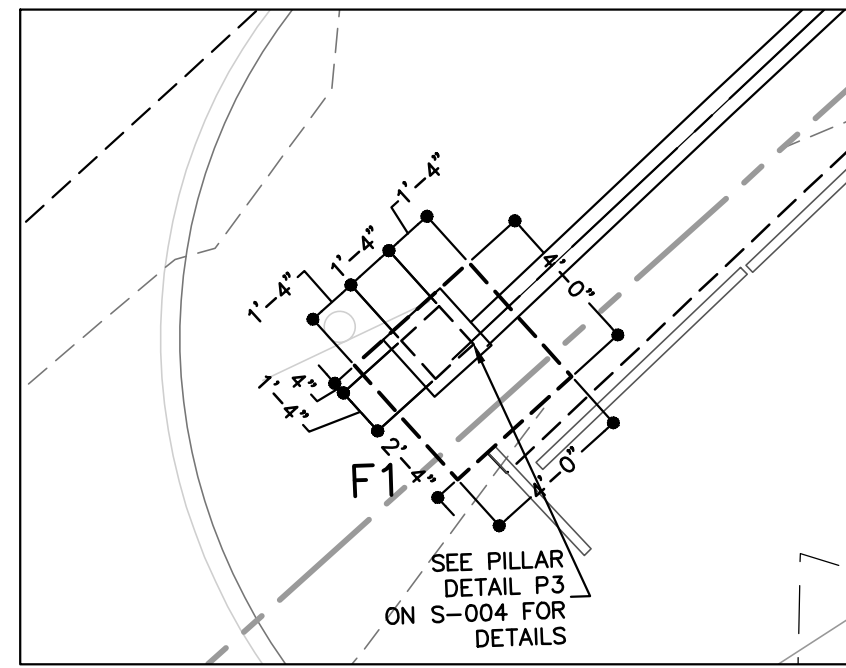
EVE MARIE MANCUSO
PROFESSIONAL ENGINEER
NEW YORK STATE LICENSE # 84425



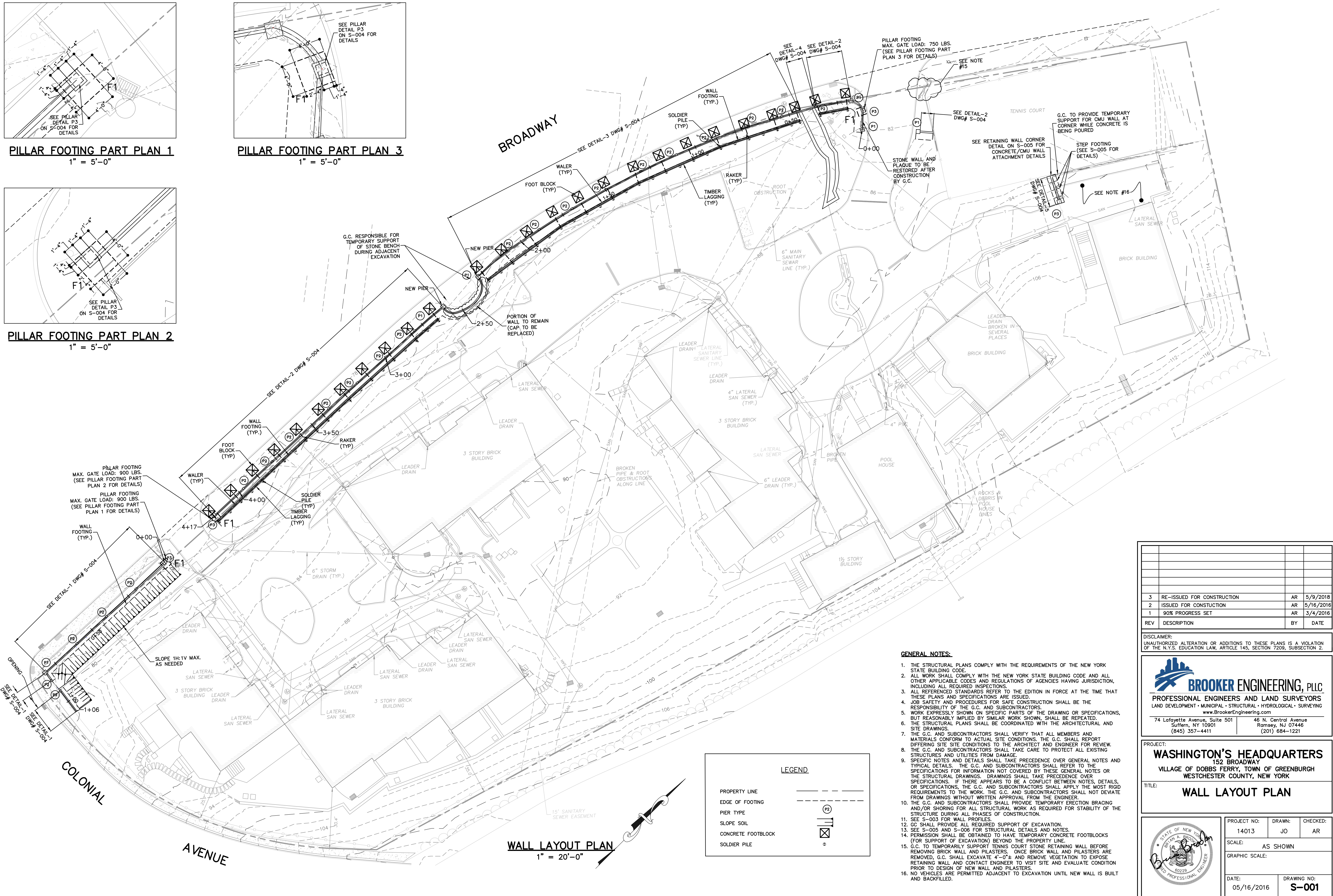
PILLAR FOOTING PART PLAN 1
1" = 5'-0"



PILLAR FOOTING PART PLAN 3
1" = 5'-0"



PILLAR FOOTING PART PLAN 2
1" = 5'-0"

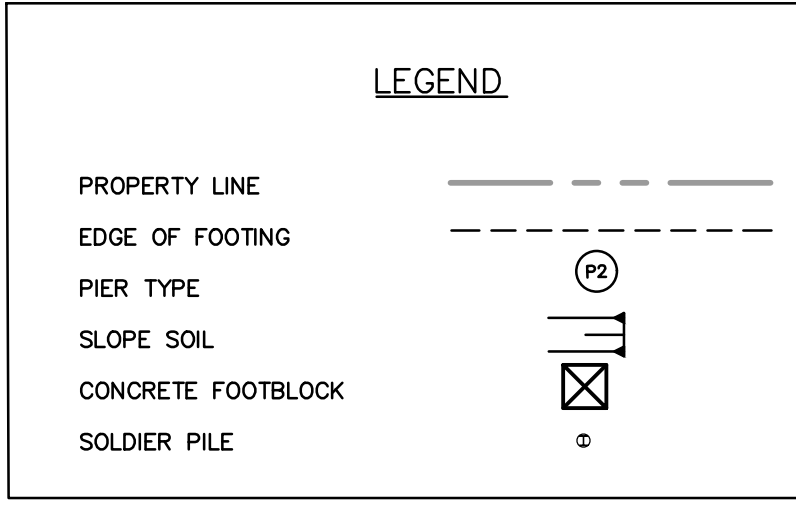


PILLAR FOOTING
MAX. GATE LOAD: 900 LBS.
(SEE PILLAR FOOTING PART
PLAN 2 FOR DETAILS)

PILLAR FOOTING
MAX. GATE LOAD: 900 LBS.
(SEE PILLAR FOOTING PART
PLAN 1 FOR DETAILS)

GENERAL NOTES:

1. THE STRUCTURAL PLANS COMPLY WITH THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE.
2. ALL WORK SHALL COMPLY WITH THE NEW YORK STATE BUILDING CODE AND ALL OTHER APPLICABLE CODES AND REGULATIONS OF AGENCIES HAVING JURISDICTION, INCLUDING ALL REQUIRED INSPECTIONS.
3. ALL REFERENCED STANDARDS REFER TO THE EDITION IN FORCE AT THE TIME THAT THESE PLANS AND SPECIFICATIONS ARE ISSUED.
4. JOB SAFETY AND PROCEDURES FOR SAFE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE G.C. AND SUBCONTRACTORS.
5. WORK EXPRESSLY SHOWN ON SPECIFIC PARTS OF THE DRAWING OR SPECIFICATIONS, BUT REASONABLY IMPLIED BY SIMILAR WORK SHOWN, SHALL BE REPEATED.
6. THE STRUCTURAL PLANS SHALL BE COORDINATED WITH THE ARCHITECTURAL AND SITE DRAWINGS.
7. THE G.C. AND SUBCONTRACTORS SHALL VERIFY THAT ALL MEMBERS AND MATERIALS CONFORM TO ACTUAL SITE CONDITIONS. THE G.C. SHALL REPORT DIFFERING SITE CONDITIONS TO THE ARCHITECT AND ENGINEER FOR REVIEW.
8. THE G.C. AND SUBCONTRACTORS SHALL TAKE CARE TO PROTECT ALL EXISTING STRUCTURES AND UTILITIES FROM DAMAGE.
9. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. THE G.C. AND SUBCONTRACTORS SHALL REFER TO THE SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE STRUCTURAL DRAWINGS. DRAWINGS SHALL TAKE PRECEDENCE OVER SPECIFICATIONS. IF THERE APPEARS TO BE A CONFLICT BETWEEN NOTES, DETAILS, OR SPECIFICATIONS, THE G.C. AND SUBCONTRACTORS SHALL APPLY THE MOST RIGID REQUIREMENTS TO THE WORK. THE G.C. AND SUBCONTRACTORS SHALL NOT DEVIATE FROM DRAWINGS WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
10. THE G.C. AND SUBCONTRACTORS SHALL PROVIDE TEMPORARY ERECTION BRACING AND/OR SHORING FOR ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.
11. SEE S-003 FOR WALL PROFILES.
12. G.C. SHALL PROVIDE ALL REQUIRED SUPPORT OF EXCAVATION.
13. SEE S-005 AND S-006 FOR STRUCTURAL DETAILS AND NOTES.
14. PERMISSION SHALL BE OBTAINED TO HAVE TEMPORARY CONCRETE FOOTBLOCKS (FOR SUPPORT OF EXCAVATION) BEYOND THE PROPERTY LINE.
15. G.C. TO TEMPORARILY SUPPORT TENNIS COURT STONE RETAINING WALL BEFORE REMOVING BRICK WALL AND PLASTER. ONCE BRICK WALL AND PLASTER ARE REMOVED, G.C. SHALL EXCAVATE 4'-0"± AND REMOVE VEGETATION TO EXPOSE RETAINING WALL AND CONTACT ENGINEER TO VISIT SITE AND EVALUATE CONDITION PRIOR TO DESIGN OF NEW WALL AND PLASTER.
16. NO VEHICLES ARE PERMITTED ADJACENT TO EXCAVATION UNTIL NEW WALL IS BUILT AND BACKFILLED.



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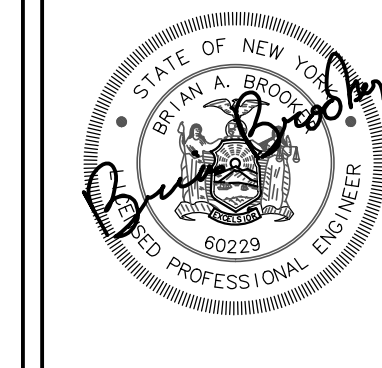
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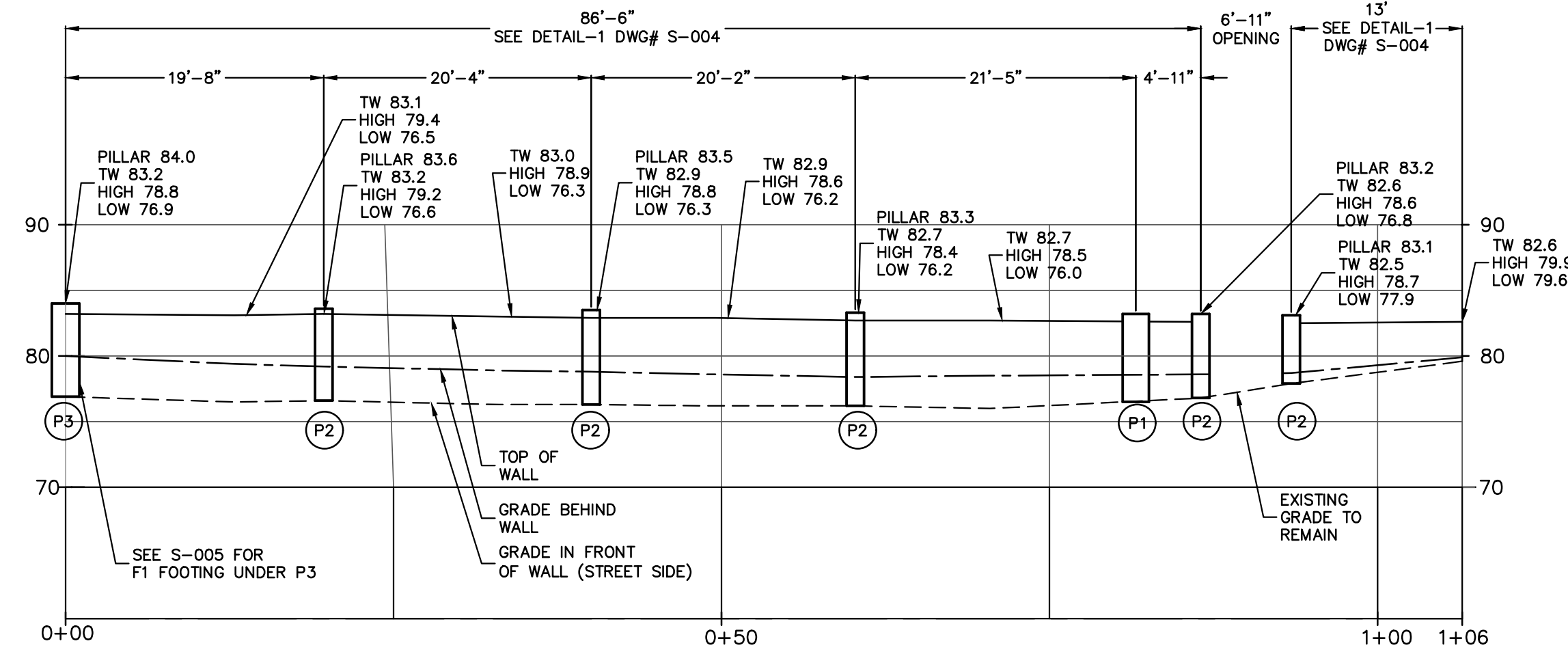
PROJECT:
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TITLE:
WALL LAYOUT PLAN

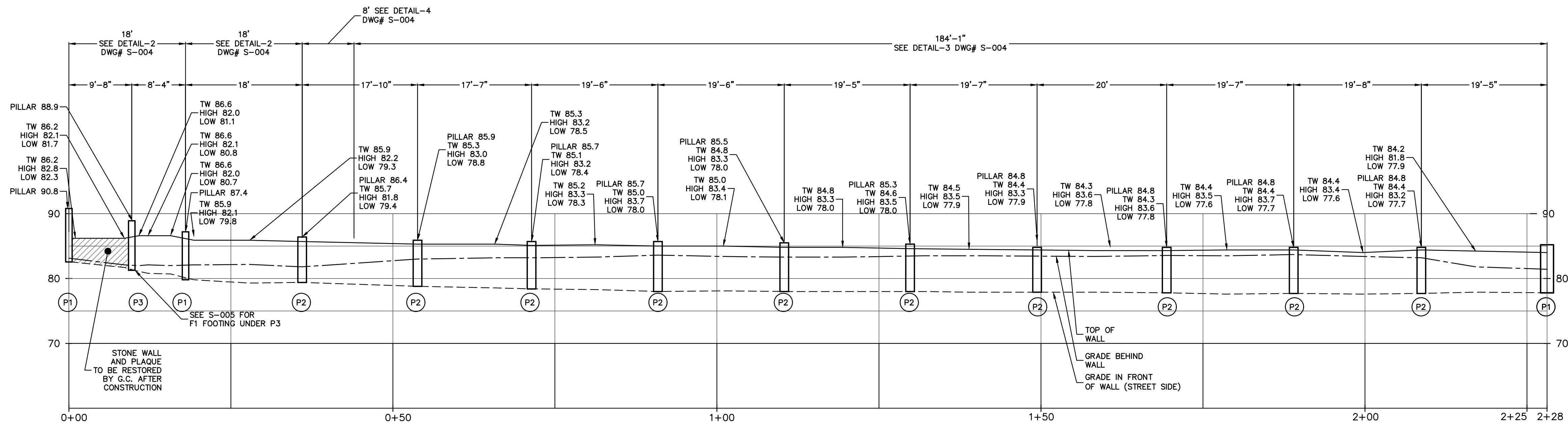
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SCALE: AS SHOWN	GRAPHIC SCALE:	
DATE: 05/16/2016	DRAWING NO: S-001	



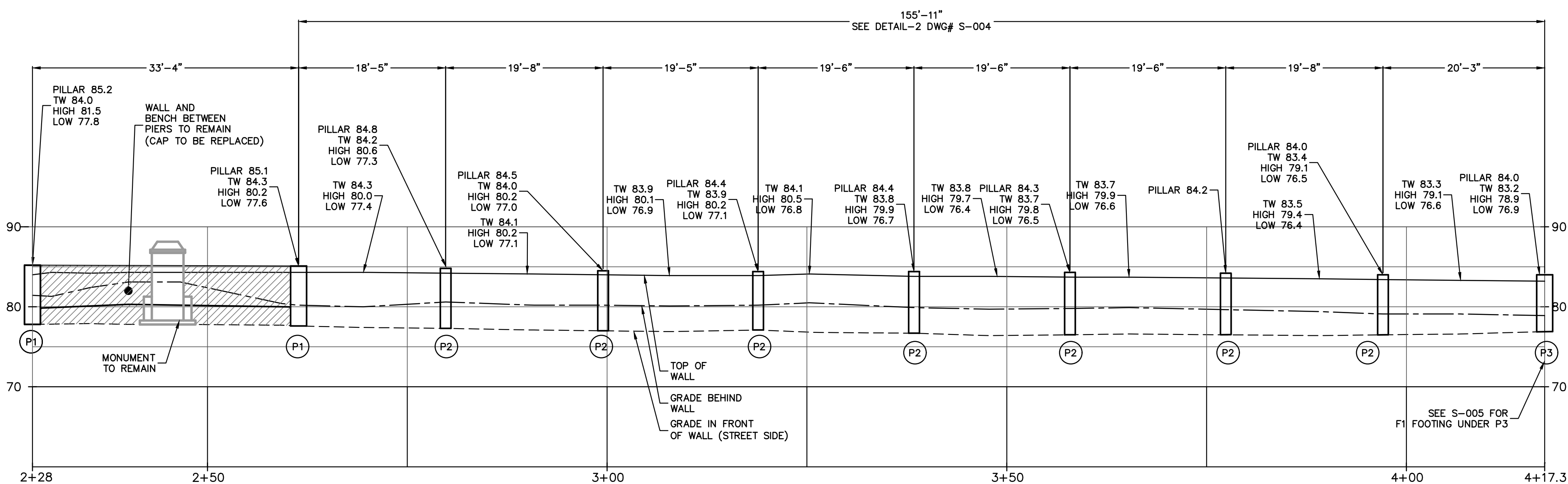
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PROFILE #1
WALL PROFILE #1
SCALE: HORIZ. 1"=10'
SCALE: VERT. 1"=10'



PROFILE (STA 0+00 TO STA 2+28.1)
WALL PROFILE #2
SCALE: HORIZ. 1"=10'
SCALE: VERT. 1"=10'



PROFILE (STA STA 2+28.1) TO STA 4+19)
WALL PROFILE #2
SCALE: HORIZ. 1"=10'
SCALE: VERT. 1"=10'

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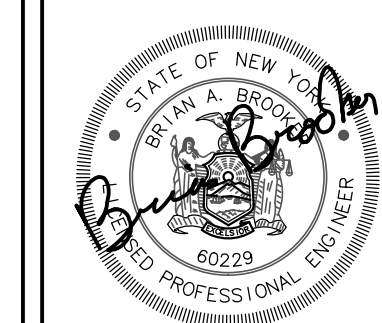
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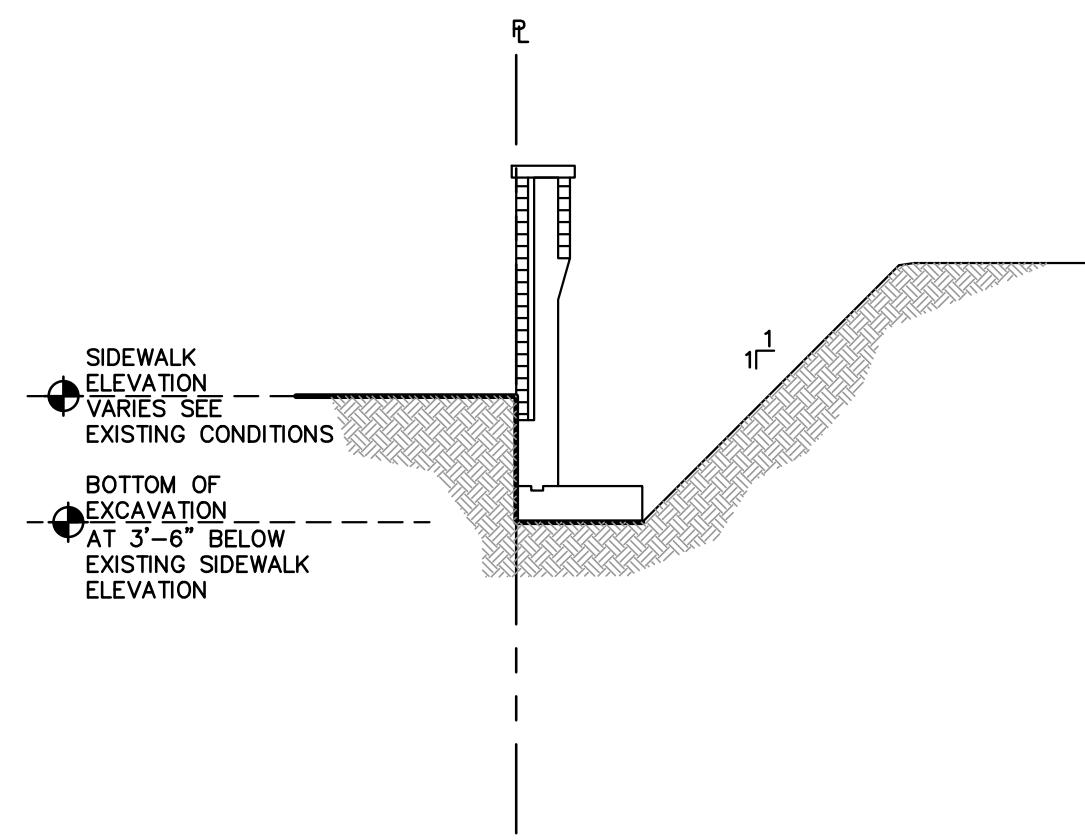
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TITLE:
WALL PROFILES

PROJECT NO: 14013	DRAWN: JO	CHECKED: AR
SCALE: AS SHOWN		
GRAPHIC SCALE:		
DATE: 05/16/2016	DRAWING NO: S-002	

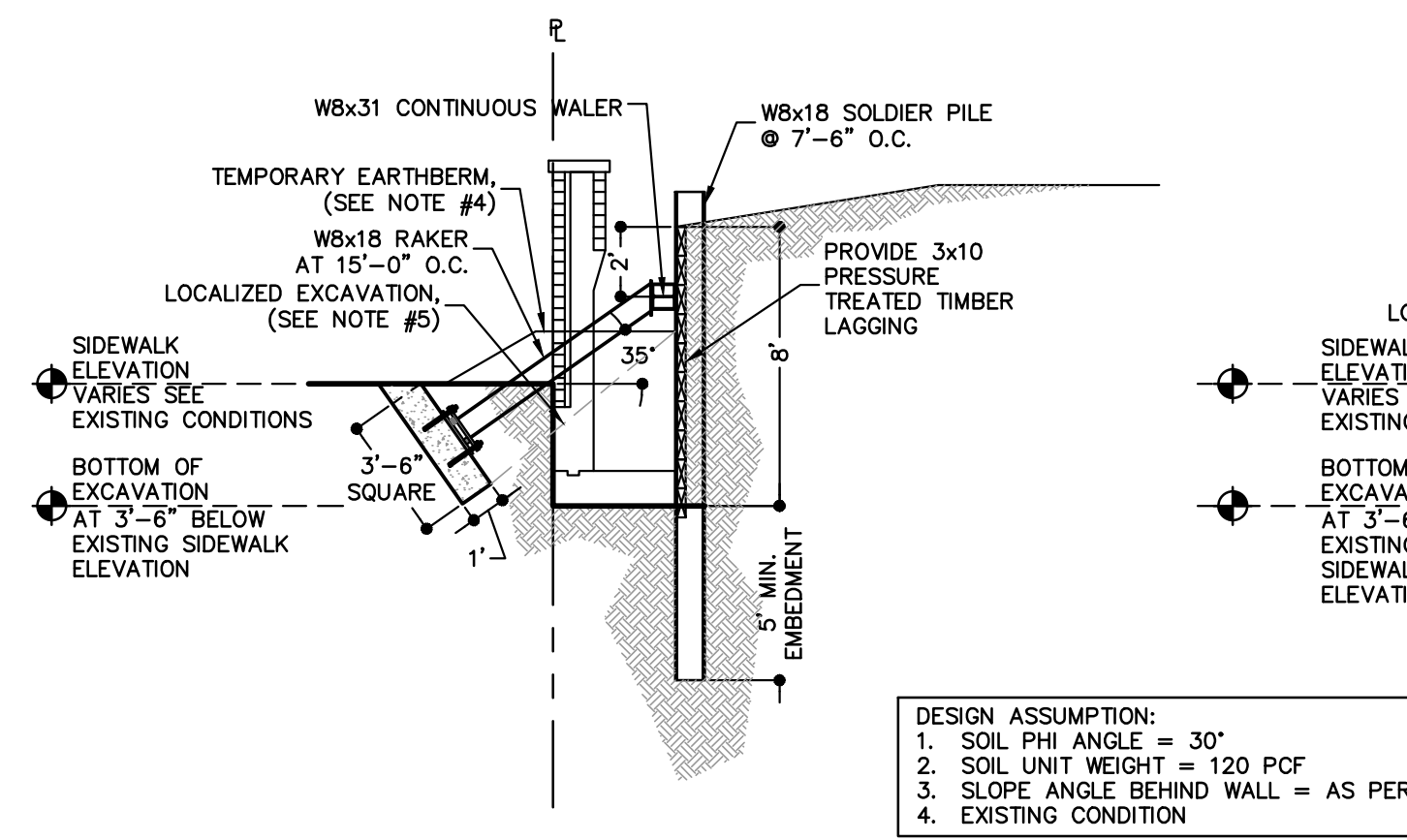


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DETAIL-A: SOE FOR 0' TO 2' RETAINING WALL
N.T.S.

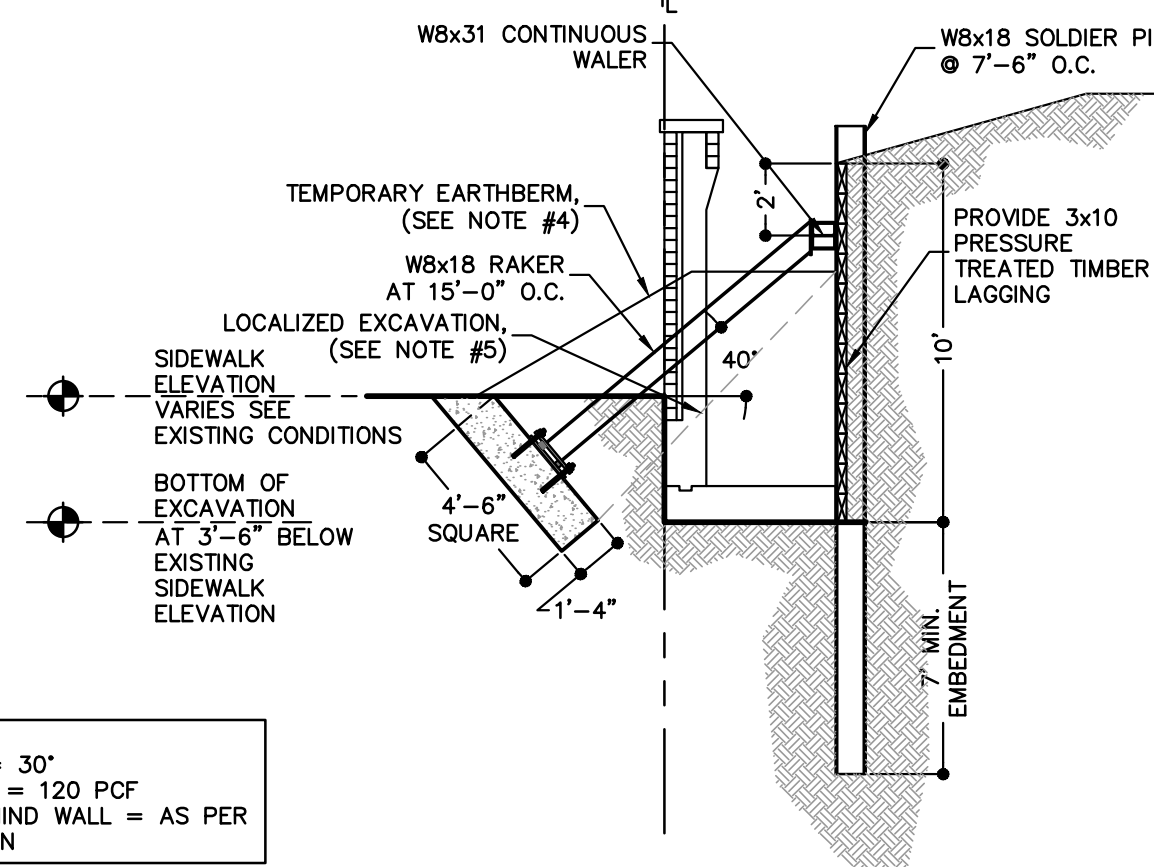
NOTE:
1. SLOPE SOIL AS NEEDED AT A MAXIMUM SLOPE OF 1H:1V.



DETAIL-B: SOE FOR 2' TO 4' RETAINING WALL
N.T.S.

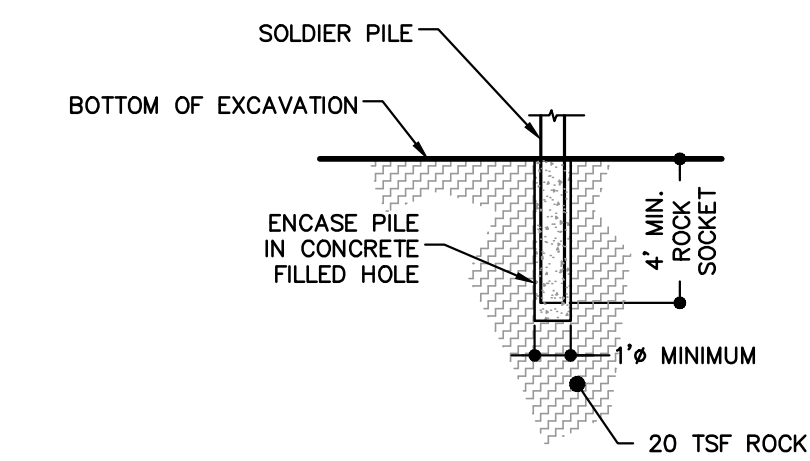
DESIGN ASSUMPTION:
1. SOIL PHI ANGLE = 30°
2. SOIL UNIT WEIGHT = 120 PCF
3. SLOPE ANGLE BEHIND WALL = AS PER EXISTING CONDITION
4. EXISTING CONDITION

NOTES:
1. G.C. TO OBTAIN PROPER PERMITS FROM DOT AND OTHER APPLICABLE AGENCIES FOR SIDEWALK CLOSURE.
2. G.C. TO RETURN SIDEWALK TO PRE CONSTRUCTION CONDITIONS OR AS PER EASEMENT AGREEMENT.
3. FRONT FLANGE OF SOLDIER PILE SHALL BE INSTALLED FLUSH WITH THE EDGE OF PROPOSED FOOTING.
4. TEMPORARY EARTHBERM SHALL BE CONSTRUCTED PRIOR TO RAKER AND FOOTBLOCK INSTALLATION. TEMPORARY EARTHBERM SHALL NOT BE INSTALLED MORE THAN 1' BELOW THE CENTER OF WALER LOCATION. EARTHBERM SHALL BE CONSTRUCTED WITH A 4' MIN. FLAT GRADE EXTENDING FROM FACE OF LAGGING WALL PRIOR TO SLOPING. MAX SLOPE ON EARTHBERM IS 1H:1V.
5. A LOCALIZED TRENCH IS ALLOWED FOR RAKER AND FOOTBLOCK INSTALLATION ONLY AT LOCATIONS WHERE RAKERS NEED TO BE INSTALLED.
6. SEE WALER CONNECTION DETAIL FOR INSTALLATION OF WALER TO SOLDIER PILE.
7. SEE FOOTBLOCK CONNECTION DETAIL FOR INSTALLATION OF RAKER TO FOOTBLOCK.



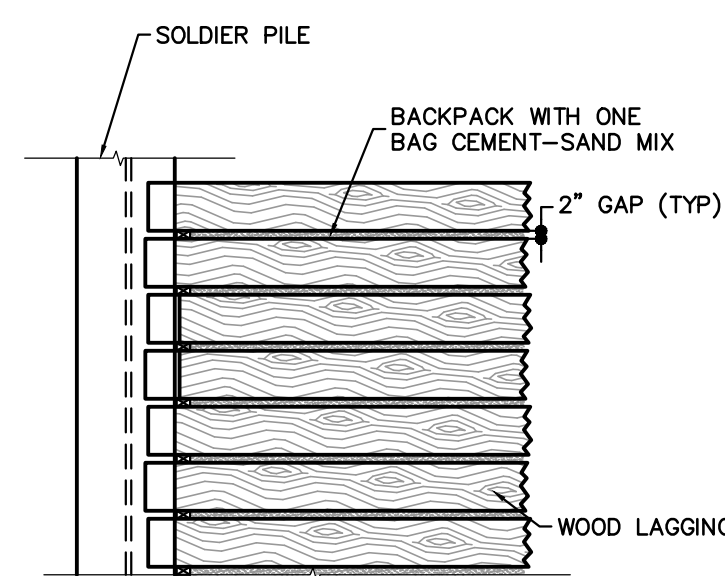
DETAIL-C: SOE FOR 4' TO 6' RETAINING WALL
N.T.S.

NOTES:
1. G.C. TO OBTAIN PROPER PERMITS FROM DOT AND OTHER APPLICABLE AGENCIES FOR SIDEWALK CLOSURE.
2. G.C. TO RETURN SIDEWALK TO PRE CONSTRUCTION CONDITIONS OR AS PER EASEMENT AGREEMENT.
3. FRONT FLANGE OF SOLDIER PILE SHALL BE INSTALLED FLUSH WITH THE EDGE OF PROPOSED FOOTING.
4. TEMPORARY EARTHBERM SHALL BE CONSTRUCTED PRIOR TO RAKER AND FOOTBLOCK INSTALLATION. TEMPORARY EARTHBERM SHALL NOT BE INSTALLED MORE THAN 1' BELOW THE CENTER OF WALER LOCATION. EARTHBERM SHALL BE CONSTRUCTED WITH A 4' MIN. FLAT GRADE EXTENDING FROM FACE OF LAGGING WALL PRIOR TO SLOPING. MAX SLOPE ON EARTHBERM IS 1H:1V.
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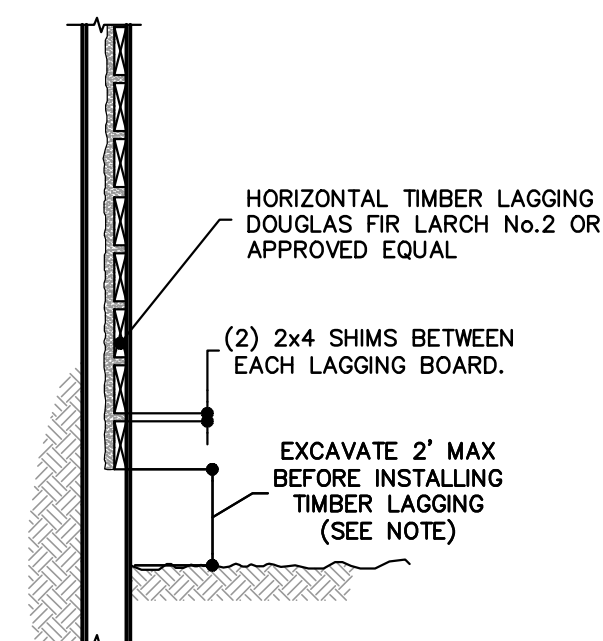


ROCK SOCKET DETAIL
N.T.S.

NOTE:
1. DRILL THROUGH ROCK TO THE SPECIFIED DEPTH SHOWN ABOVE.
2. ROCK SOCKET SHALL BE COMPLETELY CLEAN OF ANY DEBRIS AND ROCK FRAGMENTS CREATED DURING DRILLING PROCESS PRIOR TO INSERTING SOLDIER PILE.
3. INSERT SOLDIER PILE INTO ROCK SOCKET.
4. FILL ENTIRE ROCK SOCKET WITH CONCRETE.

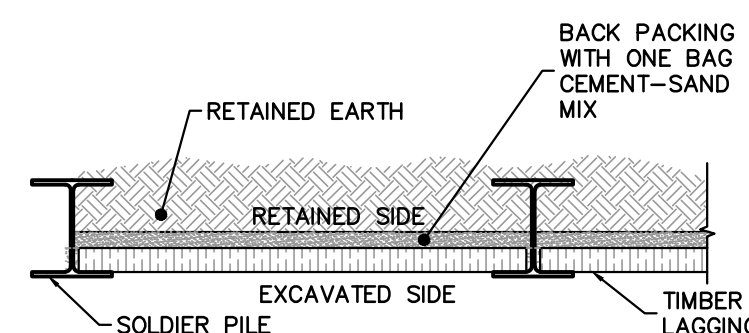


SOLDIER BEAM AND LAGGING DETAILS
N.T.S.



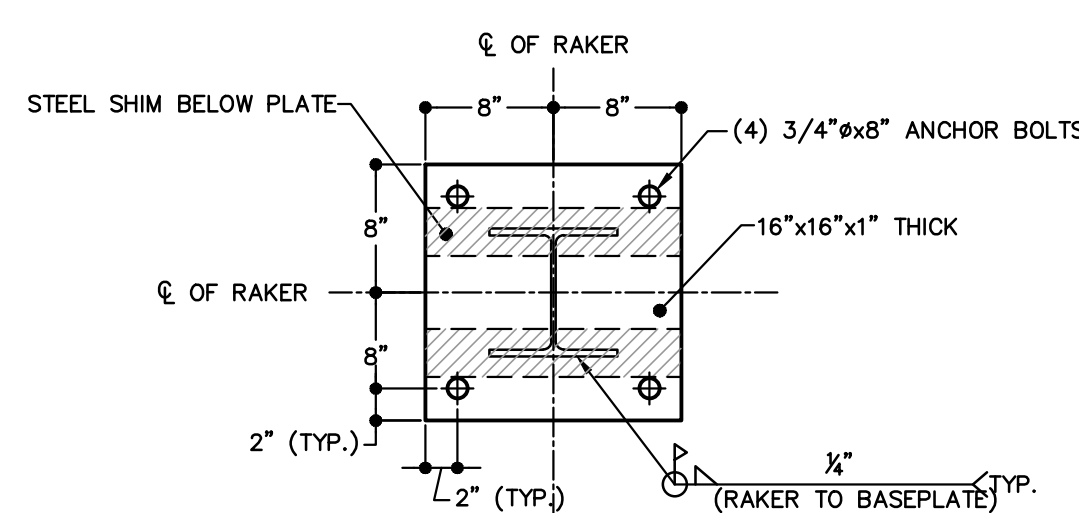
TIMBER LAGGING DETAIL
N.T.S.

NOTE:
1. HEIGHT OF UNLAGGED FACE SHOULD NOT EXCEED 20 INCHES IF WATER FLOWS FROM FACE OF EXCAVATION OR IF SOIL IN THE FACE MOVES TOWARDS THE EXCAVATION AREA.

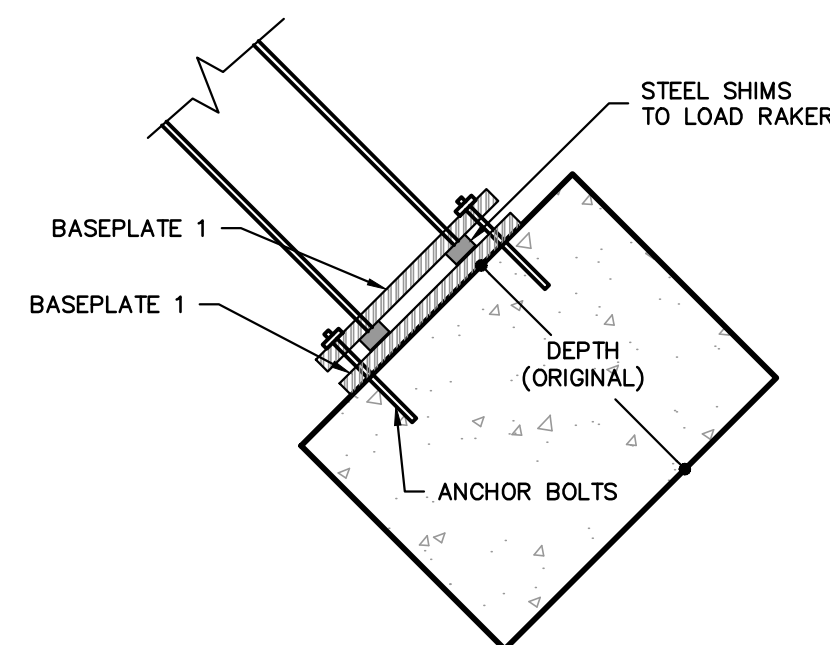


PLAN VIEW-SOLDIER PILE
N.T.S.

NOTE:
1. VOID BEHIND LAGGING SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL, 1 BAG CEMENT WITH 1 CY SAND (HAND WORKABLE RANGE 50-100PS).

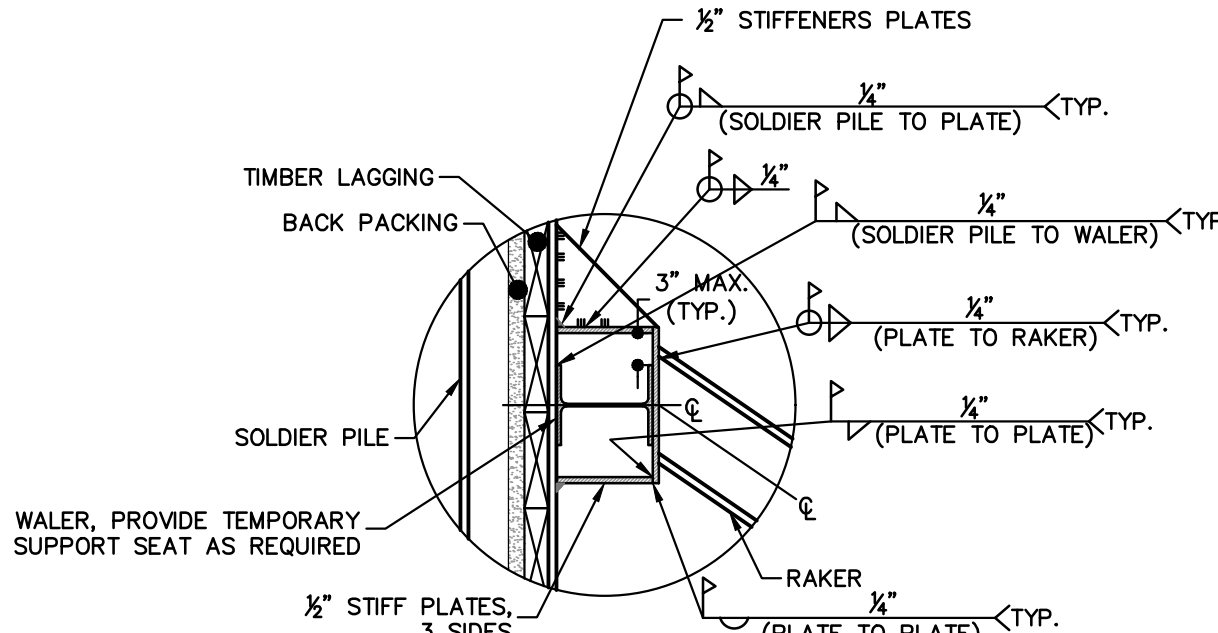


BASEPLATE 1
N.T.S.



FOOTBLOCK CONNECTION DETAIL
N.T.S.

NOTES:
1. ALTERNATIVELY, BASEPLATE AND RAKER MAY BE CAST INTO THE CONCRETE FOOTBLOCK. IF SO THE FOOTBLOCK DEPTH MEASURED FROM BOTTOM OF CAST IN PLACE BASEPLATE TO BOTTOM FACE OF FOOTBLOCK SHALL INCREASE ENOUGH TO MAINTAIN ORIGINAL FOOTBLOCK DEPTH.
2. RAKERS MUST BE WEDGED TO PRE-LOAD PRIOR TO FULL EXCAVATION ALONG SOE SYSTEM.



WALER CONNECTION DETAIL
N.T.S.

MATERIAL NOTES:

- CONCRETE USED FOR FOOTBLOCK AND ROCK SOCKET SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI WITHIN 28 DAYS.
- ALL DRY PACK SHALL BE A MIXTURE OF 1 PART CEMENT AND 11 PARTS DAMP SAND, WITH 0 SLUMP.
- STEEL REBARS SHALL CONFORM TO ASTM A618 GRADE 60, F_y = 60 KSI.
- WELDING SHALL BE PERFORMED ACCORDING TO AWS D11 USING E70XX ELECTRODES BY CERTIFIED WELDERS.
- ALL STRUCTURAL STEEL, EITHER HOT-ROLLED OR BUILT-UP WELDED SECTIONS SHALL BE DESIGNED, FABRICATED AND INSTALLED IN ACCORDANCE WITH AISC'S LATEST EDITION "SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- WALS AND RAKERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A992, F_y = 50 KSI.
- W AND HP SHAPE SOLDIER PILES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A572 GRADE 50, F_y = 50 KSI.
- STEEL CHANNELS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36, F_y = 36 KSI.
- STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B, F_y = 46 KSI.
- STEEL BOLTS SHALL BE A325 BOLTS U.N.O.
- ALL OTHER STEEL SHAPES SHALL HAVE A MINIMUM YIELD STRENGTH OF 36 KSI.
- STEEL FILLER PLATES AND WEDGES SHALL BE PLACED TO PROVIDE FULL BEARING BETWEEN BASE PLATES AND WALER.
- SPLICES OF STEEL SHALL DEVELOP THE FULL STRENGTH OF THE STRUCTURAL STEEL MEMBER.
- LUMBER AND TIMBER SHALL BE NO.2 DOUGLAS FIR-LARCH OR EQUIVALENT.
- CCA PRESSURE TREATED LUMBER SHALL BE USED FOR LAGGING WHEN THE LAGGING WILL NOT BE REMOVED.
- TIMBER LAGGING SHALL BE VISUALLY GRADED DOUGLAS FIR LARCH DIMENSION LUMBER NO.2 DENSE OR OTHER GRADE WITH MINIMUM ALLOWABLE STRESSES OF:
16.1. BENDING F_b=1250 PSI.
16.2. SHEAR F_v=135 PSI.
- MEMBER SIZES SHOWN ON THE DRAWING ARE THE MINIMUM ALLOWED SUBSTITUTION WITH LARGER MEMBERS OR OF SIMILAR SIZED MEMBERS WITH HIGHER MATERIAL STRENGTH IS PERMITTED.

SOLDIER PILE GENERAL NOTES:

- ALL STRUCTURAL STEEL, EITHER HOT-ROLLED OR BUILT-UP WELDED SECTIONS SHALL BE DESIGNED, FABRICATED AND INSTALLED IN ACCORDANCE WITH AISC'S LATEST EDITION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A572 GRADE 50. SPLICING OF STEEL PILES SHALL DEVELOP THE FULL CAPACITY OF STRUCTURAL MEMBER AND SHOULD BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL ATTACH SUITABLE BRACING OR SUPPORT TO MAINTAIN THE POSITION OF THE SOLDIER PILE WITHIN THE SHAFT EXCAVATION SUCH THAT THE FINAL LOCATION WILL SATISFY THE TOLERANCES AS MENTIONED BELOW.
- THE BRACING OR SUPPORTS SHALL REMAIN IN PLACE UNTIL THE FOUNDATION CONCRETE HAS CURED FOR AT LEAST 7 DAYS.
- CONSTRUCTION TOLERANCES: THE SOLDIER PILES SHALL BE DRILLED AND LOCATED WITHIN THE EXCAVATION TO SATISFY THE FOLLOWING TOLERANCES:
5.1. THE OUT OF VERTICAL PLUMBNESS OF THE SOLDIER PILE SHALL NOT EXCEED 1 PERCENT OF THE PILE LENGTH.
5.2. THE TOP OF THE SOLDIER PILE SHALL BE WITHIN 3" OF THE PLAN ELEVATION.
6. WELDS SHALL BE MADE BY NYC LICENSED WELDERS.
7. WELDING ELECTRODES SHALL CONFORM TO E70 SERIES A-233. ALL WELDING AND WELDING SYMBOLS ON DRAWINGS SHALL CONFORM TO A.W.S. STANDARD CODE WELDING BUILDING CONSTRUCTION.
8. PERFORM UTILITY IDENTIFICATION AND EXPLORATION AS NECESSARY BEFORE INSTALLING SOLDIER PILES.

SOLDIER PILE GENERAL PRE INSTALLATION NOTES:

- INSTALL VIBRATION MONITORING SYSTEM.
- PERFORM PRECONSTRUCTION SURVEY.
- PERFORM UTILITY IDENTIFICATION AND EXPLORATION AS NECESSARY.
- ALL PILES SHALL BE INSTALLED IN THE LOCATION SHOWN ON THESE DRAWINGS.
- ALL SOLDIER PILES THAT SHALL BE SOCKETED INTO ROCK SHALL BE DRILLED (G.C. TO MAKE A TEST PIT IN ORDER TO VERIFY SUBGRADE AND/OR ROCK CONDITION.)
- MAX ALLOWABLE SLOPE FOR UN-RETAINED SOIL IS 1 HORIZONTAL TO 1.0 VERTICAL.

LAGGING INSTALLATION PROCEDURE:

- PROVIDE FLAT SURFACE FOR TIMBER LAGGING TO BE SECURED IN PLACE TO SOLDIER PILES, INSTALL LAGGING HORIZONTALLY WITH A 2" GAP BETWEEN BOARDS.
- LAGGING SHALL BE INSTALLED AS THE EXCAVATION ADVANCES WITH A MAXIMUM DEPTH OF 2-FT PRIOR TO LAGGING.
- AS INSTALLATION PROGRESSES, BACKFILL VOIDS BETWEEN EXCAVATION FACE AND LAGGING WITH SAND OR SOIL RAMMED INTO PLACE. PROVIDE DRAINAGE MATTING OR BURLAP WHERE NECESSARY TO ALLOW DRAINAGE OF GROUNDWATER WITHOUT LOSS OF SOIL OR SAND PACKING.
- IF WALERS OR OTHER MEANS OF BRACING ARE REQUIRED, MAXIMUM EXCAVATION BELOW BRACING LEVEL IS 1-FT FOR WALERS AND RAKERS UNLESS NOTED ON DRAWING.
- IF UNSTABLE MATERIAL IS ENCOUNTERED DURING EXCAVATION, TAKE SUITABLE MEASURES TO CONTAIN SUCH MATERIAL IN PLACE AND TO PREVENT SOIL DISPLACEMENT.
- IF MATERIAL BEHIND LAGGING HAS BEEN LOST OR DISTURBED, LEAVE A 1-0 TO 1-1/2 INCH SPACE BETWEEN LAGGING BOARDS TO IMMEDIATELY BACKFILL OR GROUT.
- HAY OR FILTER FABRIC SHALL BE USED TO MINIMIZE MIGRATION OF FINES INTO THE EXCAVATION.

WALER, RAKER, AND FOOTBLOCK INSTALLATION PROCEDURE:

- INSTALL SOLDIER PILE AS PER SOLDIER PILE INSTALLATION PROCEDURES
- PROCEED WITH LAGGING INSTALLATION DOWN TO WALER ELEVATION.
- INSTALL WALER.
- CONSTRUCT EARTH BERM BELOW WALER. EARTH BEAM TO START AT 1'-0" MAX BELOW WALER UNLESS NOTED OTHERWISE. PROVIDE 4'-0" MINIMUM OF HORIZONTAL SOIL FROM FACE OF LAGGING, THEN SLOPE 1V:1H MAX TO THE BOTTOM OF EXCAVATION.
- IF EARTH BERM IS IN THE WAY OF INSTALLING RAKER, AND FOOTBLOCK, A LOCAL TRENCH TO INSTALL RAKER AND FOOTBLOCK IS PERMISSIBLE.
- INSTALL RAKER AND FOOTBLOCK. RAKER CAN BE CAST INSIDE THE FOOTBLOCK OR CONNECTED TO FOOTBLOCK BY ANCHOR BOLTS AS SHOWN ON CONSTRUCTION DETAILS.
- EARTH BERM CAN BE REMOVED ONCE SOLDIER PILE IS BRACED. PROCEED WITH EXCAVATION, AND LAGGING INSTALLATION.

GENERAL NOTES:

- CONTRACTOR MAY PROVIDE AN ALTERNATE SOE DESIGN FOR THE WALL REPLACEMENT WORK, WITH A NEW YORK STATE LICENSED PE'S STAMP, FOR REVIEW AND ACCEPTANCE BY THE OWNER.

REV	DESCRIPTION	BY	DATE
3	REVISED PER SCOPE REVIEW DATED 8/20/2018	PB	9/6/2018
2	ISSUED FOR CONSTRUCTION	AR	5/16/2016
1	90% PROGRESS SET	AR	3/4/2014

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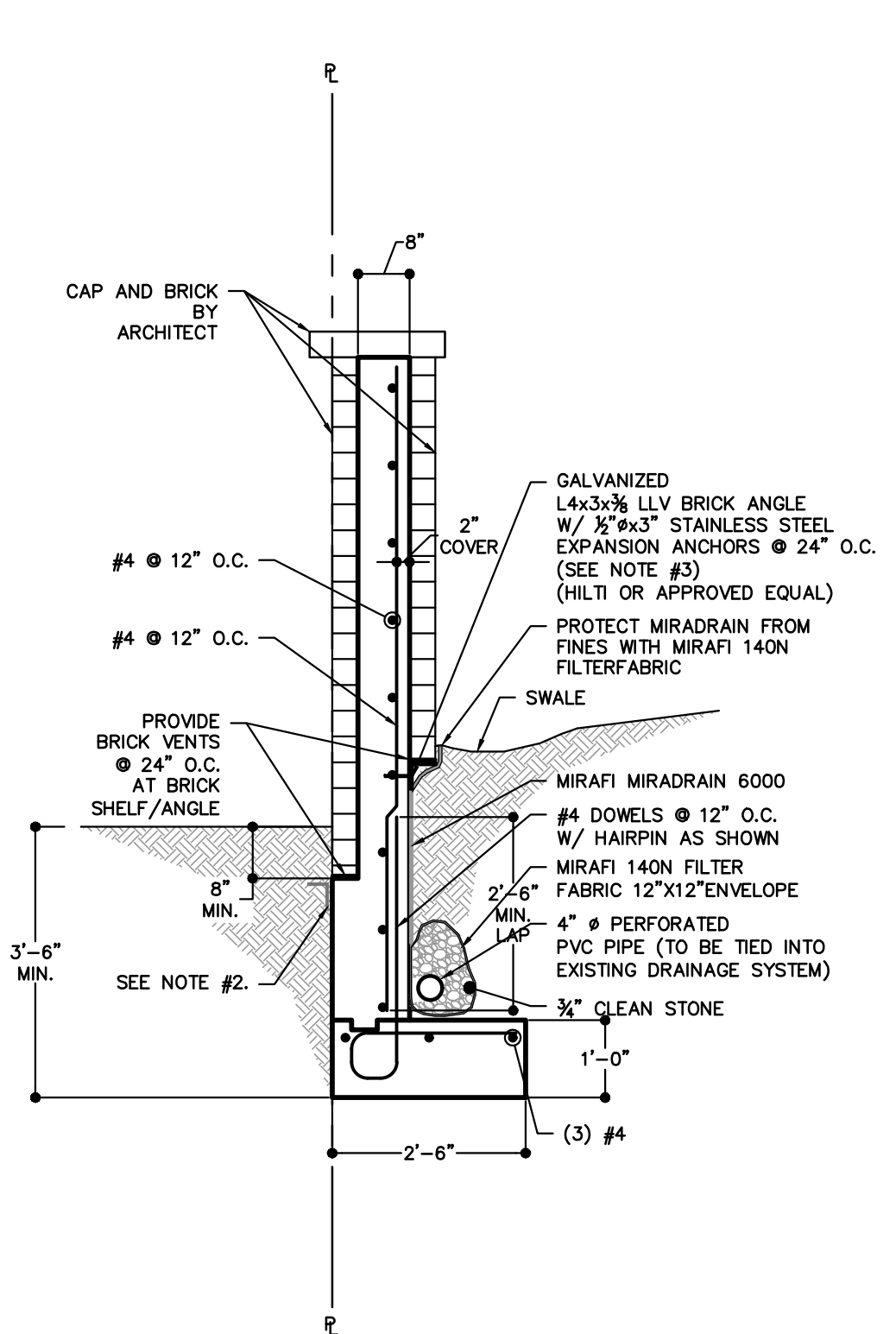
74 Lafayette Avenue, Suite 501
Suffern, NY 10901
(845) 357-4411

46 N. Central Avenue
Ramsay, NJ 07446
(201) 684-1221

PROJECT:
WASHINGTON'S HEADQUARTERS
152 BROADWAY
VILLAGE OF DOBBS FERRY, TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

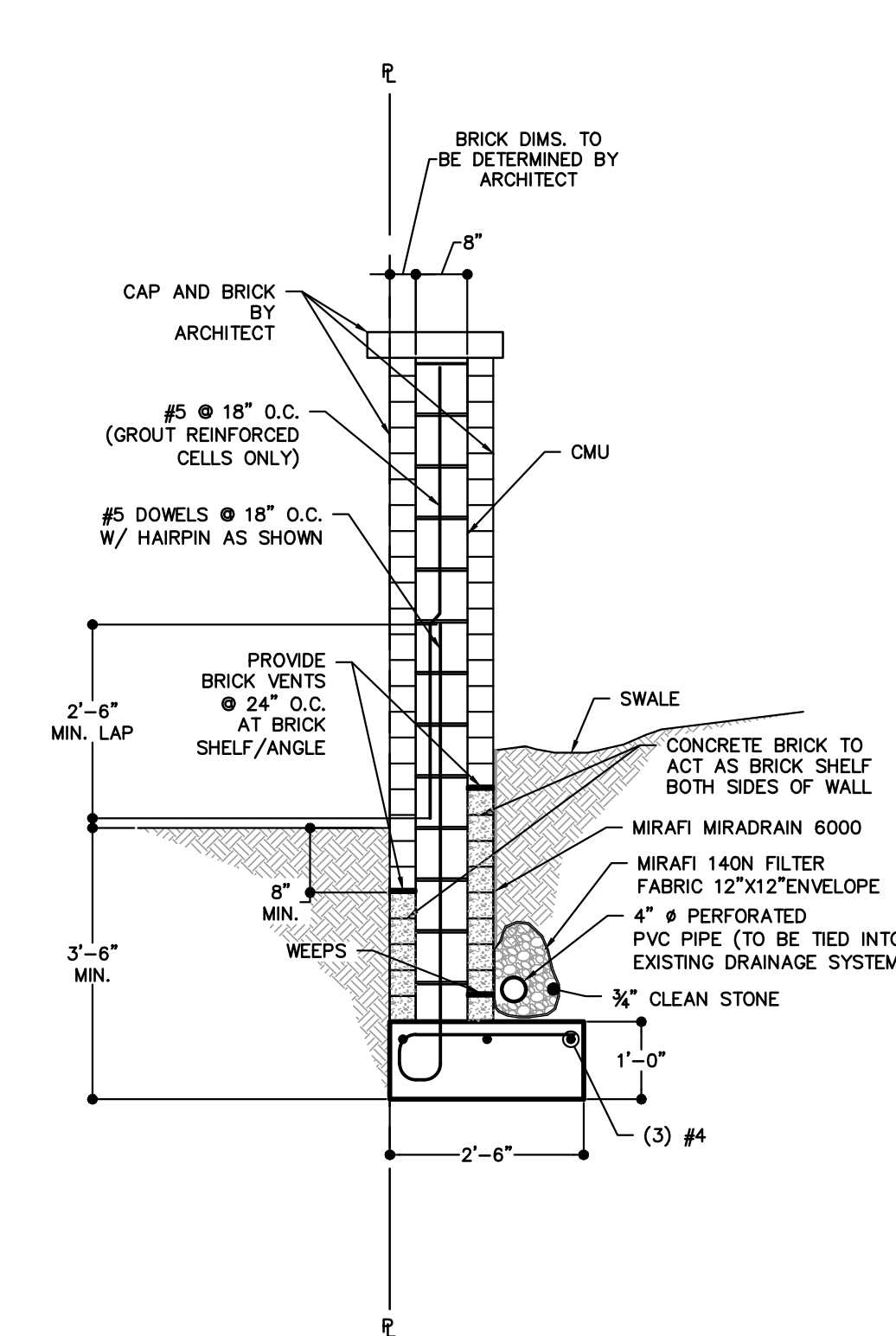
TITLE:
**SUPPORT OF EXCAVATION
DETAILS & NOTES**

PROJECT NO: 14013	DRAWN: NC	CHECKED: AR
SCALE: AS SHOWN	GRAPHIC SCALE:	
DATE: 05/16/2016	DRAWING NO: S-003	



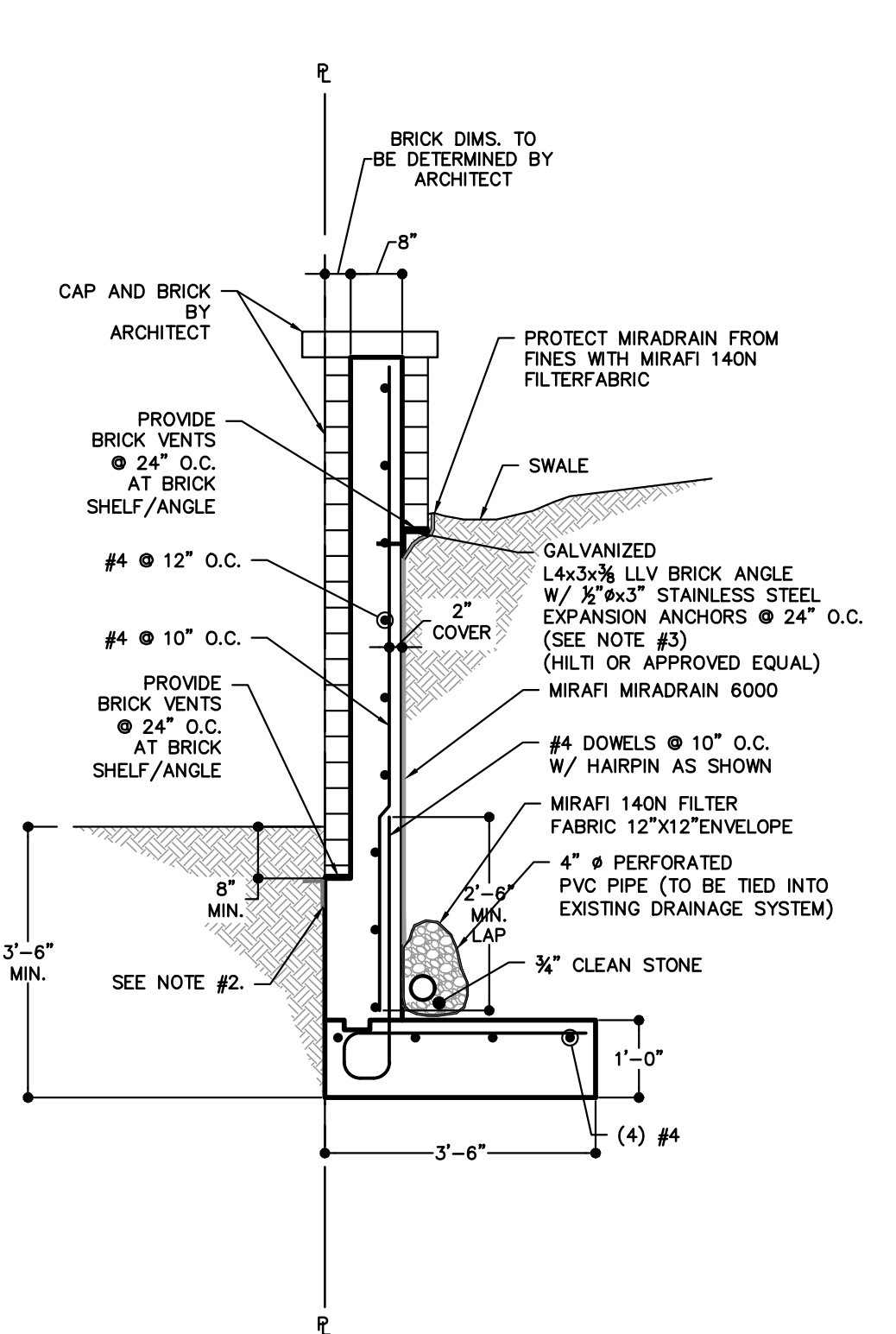
DETAIL-1: 0' TO 2' RETAINING WALL
N.T.S.

- NOTES:
- WALL DESIGN IS BASED ON PRESUMPTIVE SOIL PROPERTIES AS FOLLOWS:
 $\gamma = 120$ PCF
 $\phi = 32^\circ$
 BEARING CAPACITY = 4000 PSF
 - PROVIDE BRICK RELIEVING ANGLE FOR EXTRA BRICK AT PILLARS.
 - AT PILLAR P1, PROVIDED L7x4x $\frac{3}{8}$ LLH WITH $\frac{1}{2}$ "x3" STAINLESS STEEL EXPANSION ANCHORS @ EACH END OF PILLAR.



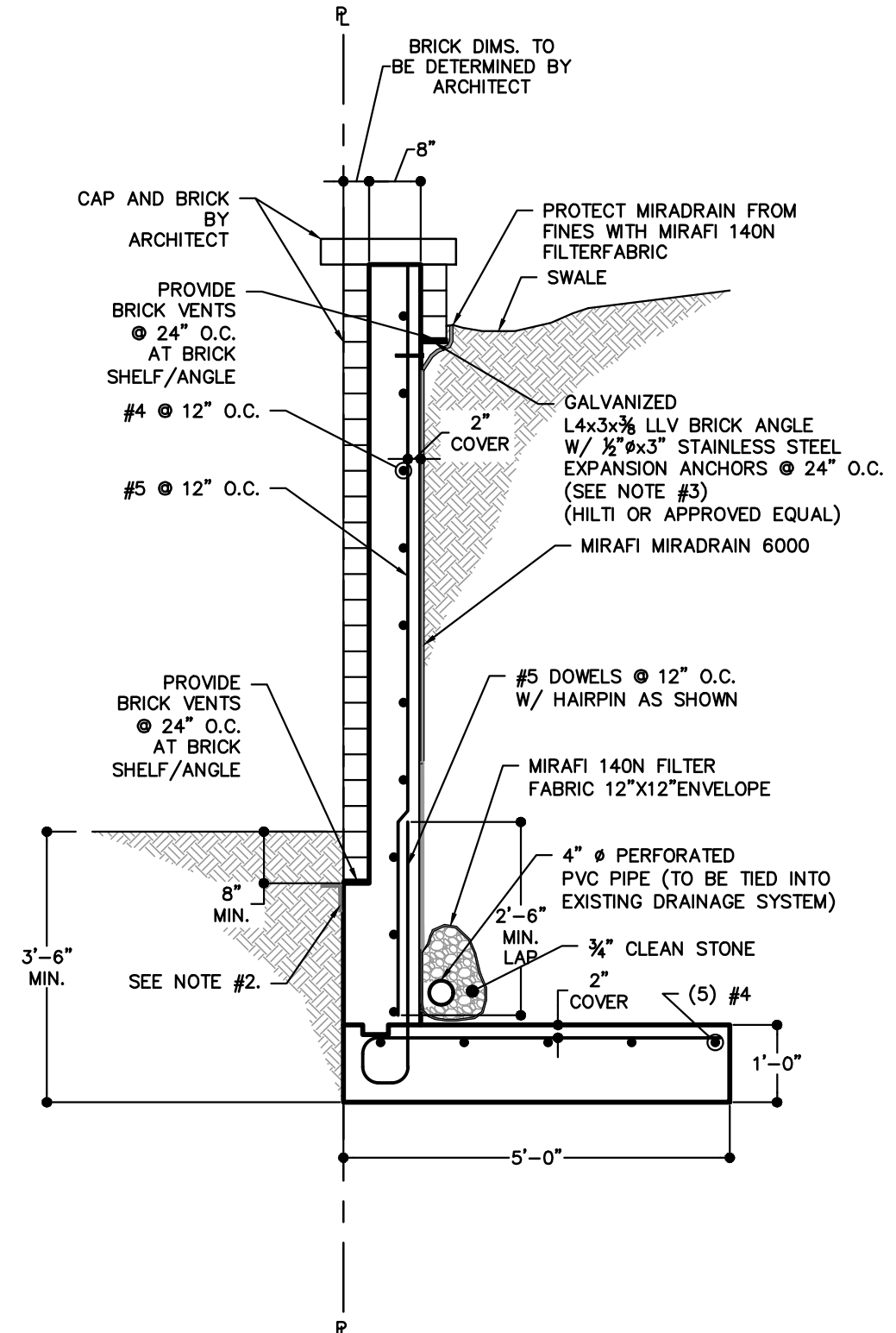
DETAIL-1: 0' TO 2' RETAINING WALL ALTERNATIVE
N.T.S.

- NOTES:
- WALL DESIGN IS BASED ON PRESUMPTIVE SOIL PROPERTIES AS FOLLOWS:
 $\gamma = 120$ PCF
 $\phi = 32^\circ$
 BEARING CAPACITY = 4000 PSF
 - PROVIDE BRICK RELIEVING ANGLE FOR EXTRA BRICK AT PILLARS.
 - AT PILLAR P1, PROVIDED L7x4x $\frac{3}{8}$ LLH WITH $\frac{1}{2}$ "x3" STAINLESS STEEL EXPANSION ANCHORS @ EACH END OF PILLAR.



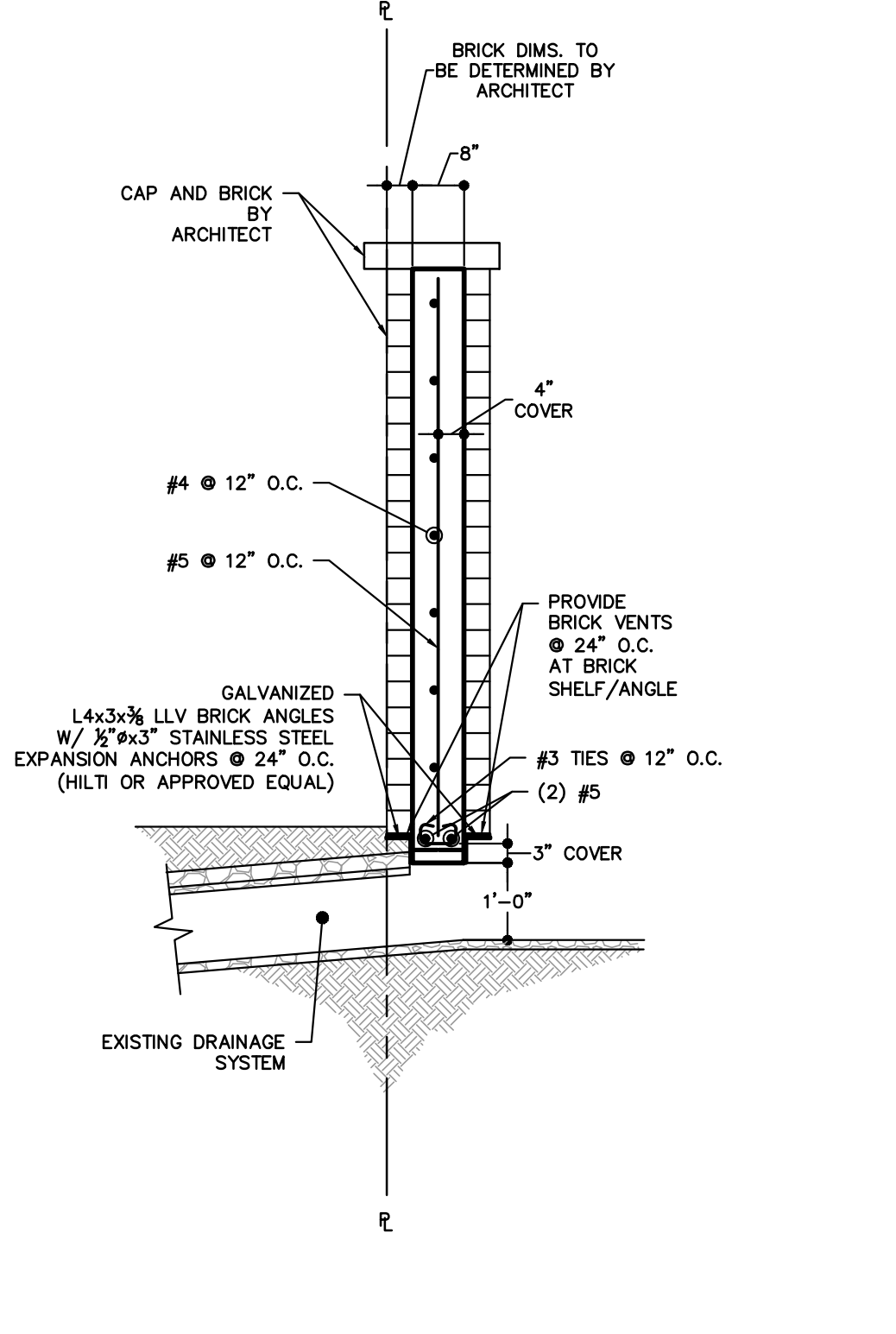
DETAIL-2: 2' TO 4' RETAINING WALL
N.T.S.

- NOTES:
- WALL DESIGN IS BASED ON PRESUMPTIVE SOIL PROPERTIES AS FOLLOWS:
 $\gamma = 120$ PCF
 $\phi = 32^\circ$
 BEARING CAPACITY = 4000 PSF
 - PROVIDE BRICK RELIEVING ANGLE FOR EXTRA BRICK AT PILLARS.
 - AT PILLAR P1, PROVIDED L7x4x $\frac{3}{8}$ LLH WITH $\frac{1}{2}$ "x3" STAINLESS STEEL EXPANSION ANCHORS @ EACH END OF PILLAR.

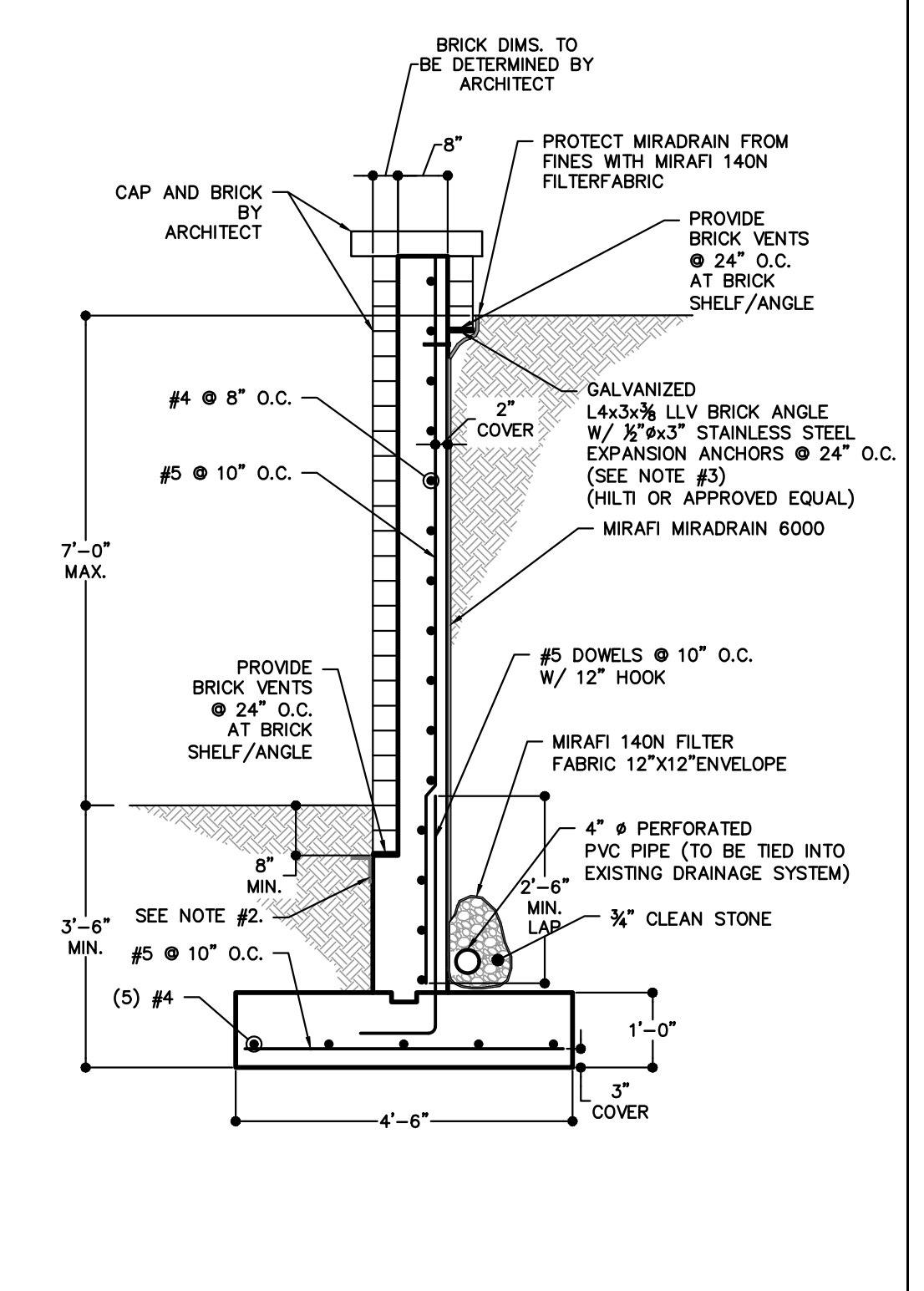


DETAIL-3: 4' TO 6' RETAINING WALL
N.T.S.

- NOTES:
- WALL DESIGN IS BASED ON PRESUMPTIVE SOIL PROPERTIES AS FOLLOWS:
 $\gamma = 120$ PCF
 $\phi = 32^\circ$
 BEARING CAPACITY = 4000 PSF
 - PROVIDE BRICK RELIEVING ANGLE FOR EXTRA BRICK AT PILLARS.
 - AT PILLAR P1, PROVIDED L7x4x $\frac{3}{8}$ LLH WITH $\frac{1}{2}$ "x3" STAINLESS STEEL EXPANSION ANCHORS @ EACH END OF PILLAR.

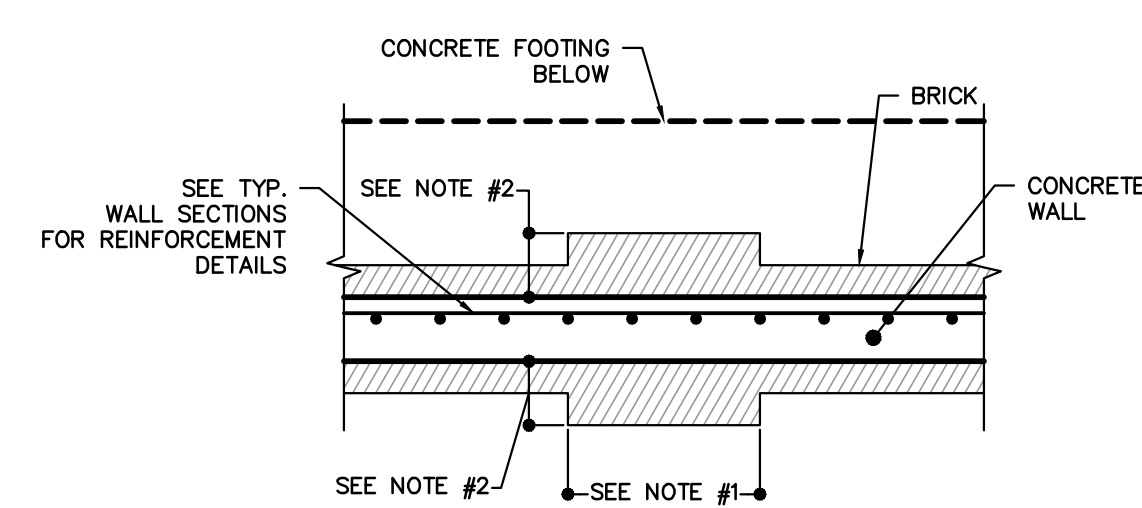


DETAIL-4: STREAM OVERPASS DETAIL
N.T.S.



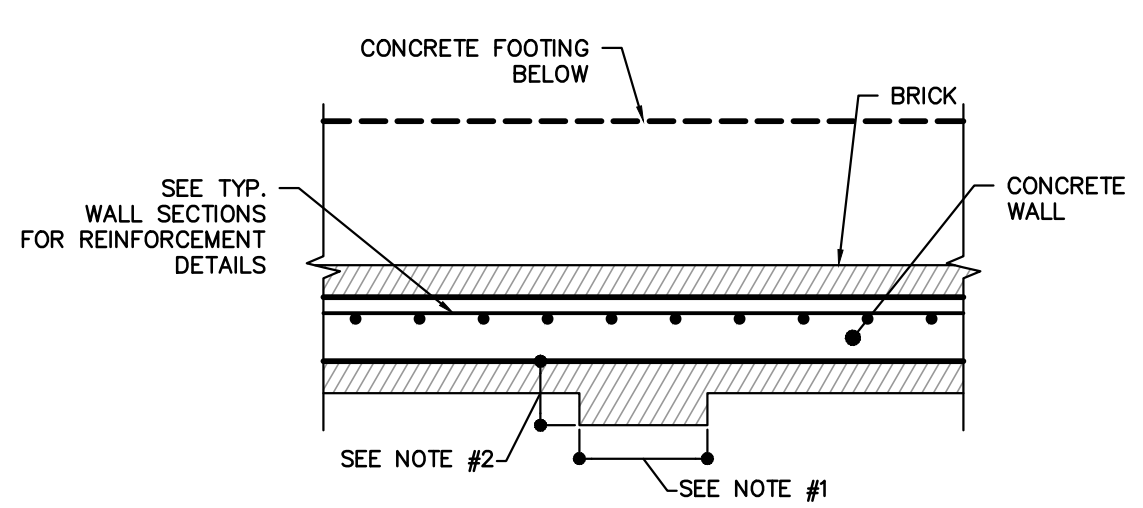
DETAIL-5: 7' RETAINING WALL BEHIND TENNIS COURT
N.T.S.

- NOTES:
- WALL DESIGN IS BASED ON PRESUMPTIVE SOIL PROPERTIES AS FOLLOWS:
 $\gamma = 120$ PCF
 $\phi = 32^\circ$
 BEARING CAPACITY = 4000 PSF
 - PROVIDE BRICK RELIEVING ANGLE FOR EXTRA BRICK AT PILLARS.
 - AT PILLAR P1, PROVIDED L7x4x $\frac{3}{8}$ LLH WITH $\frac{1}{2}$ "x3" STAINLESS STEEL EXPANSION ANCHORS @ EACH END OF PILLAR.



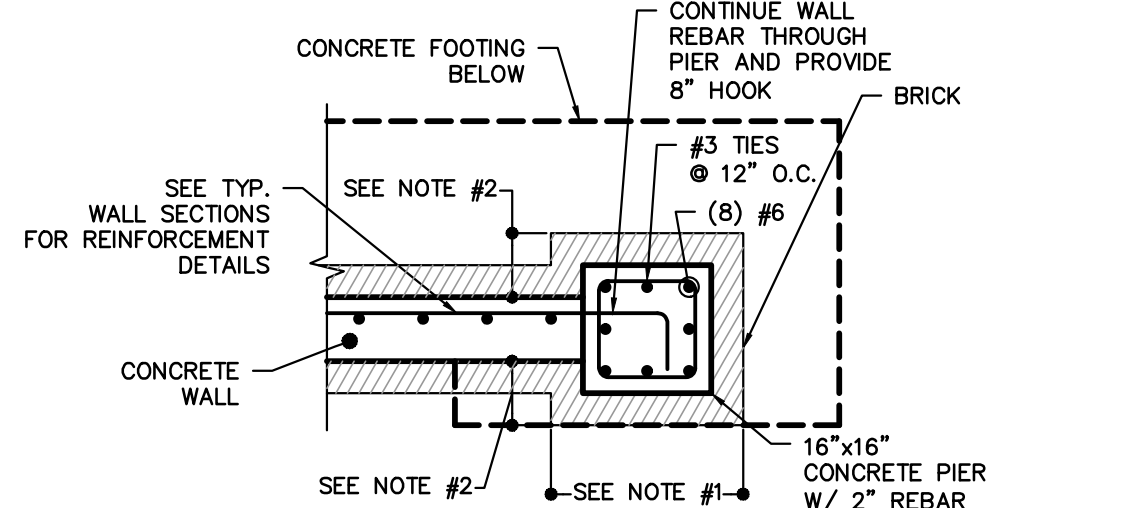
PILLAR DETAIL P1 PLAN VIEW
N.T.S.

- NOTES:
- PILLAR WIDTH AND DEPTH TO VARY BETWEEN 28" AND 26" BASED ON THE CHOSEN BRICK LENGTH BY ARCHITECT.
 - PILLAR PROTRUSION FROM WALL IS TO BE A MAXIMUM OF 8".
 - SEE ARCHITECTURAL DRAWINGS FOR ALL BRICK DIMENSIONS.
 - BRICK PATTERN SHALL MATCH EXISTING CONDITIONS.



PILLAR DETAIL P2 PLAN VIEW
N.T.S.

- NOTES:
- PILLAR WIDTH TO VARY BETWEEN 16" AND 18" BASED ON THE CHOSEN BRICK LENGTH BY ARCHITECT.
 - PILLAR PROTRUSION FROM WALL IS TO BE A MAXIMUM OF 8".
 - SEE ARCHITECTURAL DRAWINGS FOR ALL BRICK DIMENSIONS.
 - BRICK PATTERN SHALL MATCH EXISTING CONDITIONS.



PILLAR DETAIL P3 PLAN VIEW
N.T.S.

- NOTES:
- PILLAR WIDTH AND DEPTH TO VARY BETWEEN 28" AND 26" BASED ON THE CHOSEN BRICK LENGTH BY ARCHITECT.
 - PILLAR PROTRUSION FROM WALL IS TO BE A MAXIMUM OF 8".
 - SEE ARCHITECTURAL DRAWINGS FOR ALL BRICK DIMENSIONS.
 - BRICK PATTERN SHALL MATCH EXISTING CONDITIONS.

REV	DESCRIPTION	BY	DATE
3	RE-ISSUED FOR CONSTRUCTION	AR	5/9/2018
2	ISSUED FOR CONSTRUCTION	AR	5/16/2016
1	90% PROGRESS SET	AR	3/4/2016

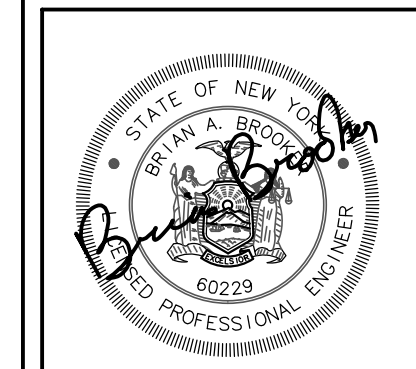
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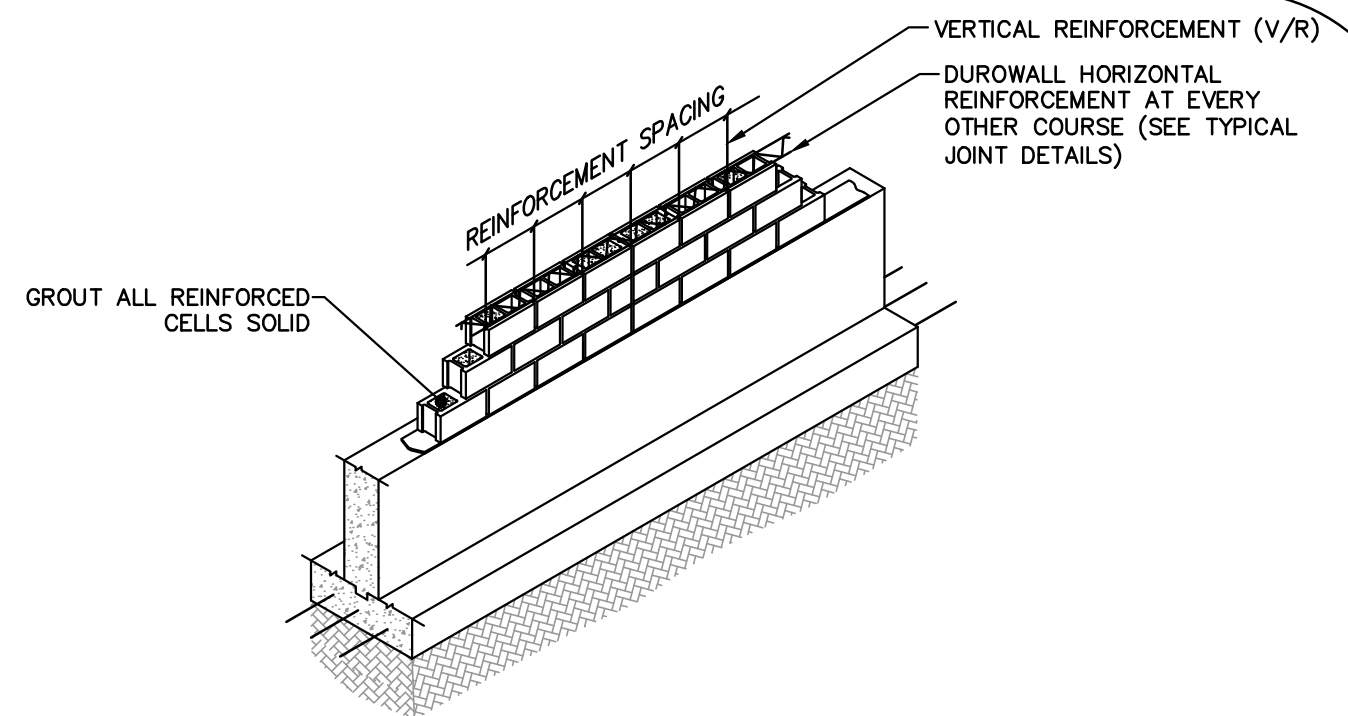
PROJECT:
WASHINGTON'S HEADQUARTERS
 152 BROADWAY
 VILLAGE OF DOBBS FERRY
 WESTCHESTER COUNTY, NEW YORK

TITLE:
STRUCTURAL DETAILS (1 OF 2)

PROJECT NO: 14013 | DRAWN: BL | CHECKED: AR
 SCALE: AS NOTED
 GRAPHIC SCALE:
 DATE: 05/16/2016 | DRAWING NO: S-004

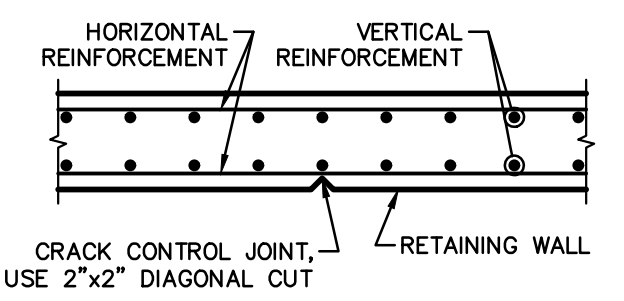


- MASONRY NOTES:**
- MASONRY WALLS SHALL BE CONSTRUCTED OF THE FOLLOWING MATERIALS:
 - BLOCK: 16" LONG, 4000 PSI
 - GROUT: 4000 PSI
 - MORTAR: TYPE "M" (2500 PSI)
 - REINFORCEMENT: 60 KSI
 - GROUT CELLS SOLID WHERE REINFORCEMENT IS PLACED AND A PENCIL VIBRATOR SHALL BE USED TO ELIMINATE AIR POCKETS.
 - THE VERTICAL REINFORCEMENT SHALL BE INSTALLED AT THE CENTER OF THE BLOCK CORES AND THE CORES SHALL ALIGN THROUGHOUT THE VERTICAL HEIGHT OF THE WALL.
 - THE MINIMUM OVERLAP OF VERTICAL REINFORCEMENT FOR MASONRY WALLS SHALL BE 36x BAR#.
 - HAMMERING DOWN THE VERTICAL REINFORCEMENT IS NOT PERMITTED.
 - MASONRY BLOCKS SHALL BE CUT AS REQUIRED BY A MOTOR DRIVEN SAW.
 - MORTAR BEDDING SHALL BE FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL SURFACES.
 - SEE ACI STANDARDS FOR WEATHER REQUIREMENTS, HOT AND COLD, WHEN APPLICABLE.



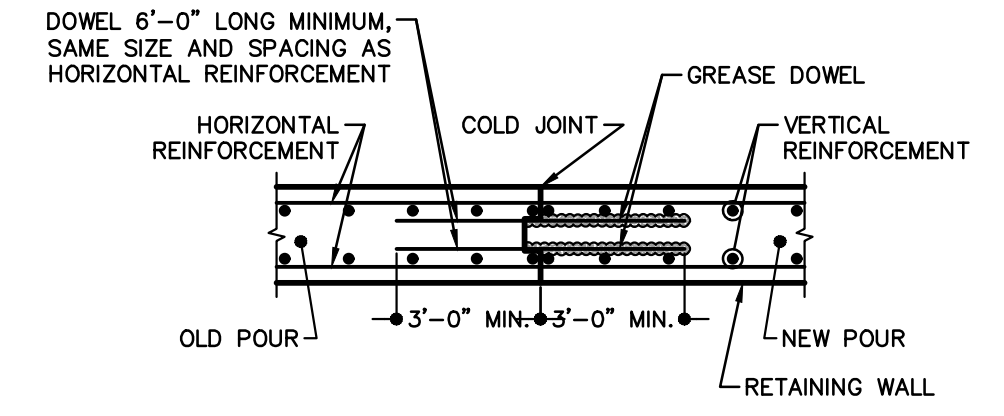
ISOMETRIC VIEW OF TYPICAL REINFORCED MASONRY WALL
N.T.S.

"MASONRY DETAIL & NOTES ONLY APPLY IF DETAIL-1 ALTERNATIVE ON S-004 IS CHOSEN"



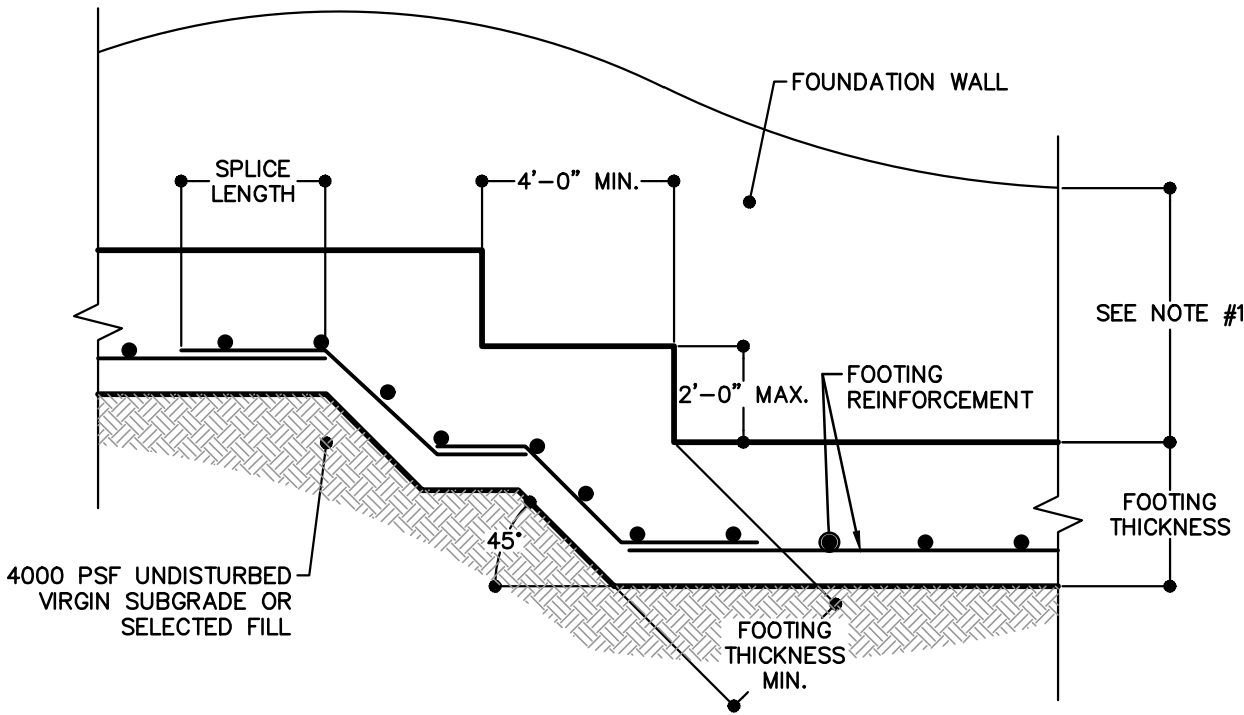
CRACK CONTROL JOINT DETAIL (FOR RETAINING WALL)
N.T.S.

NOTE: CRACK CONTROL JOINTS SHALL BE LOCATED AT 30'-0" O.C. MAXIMUM.



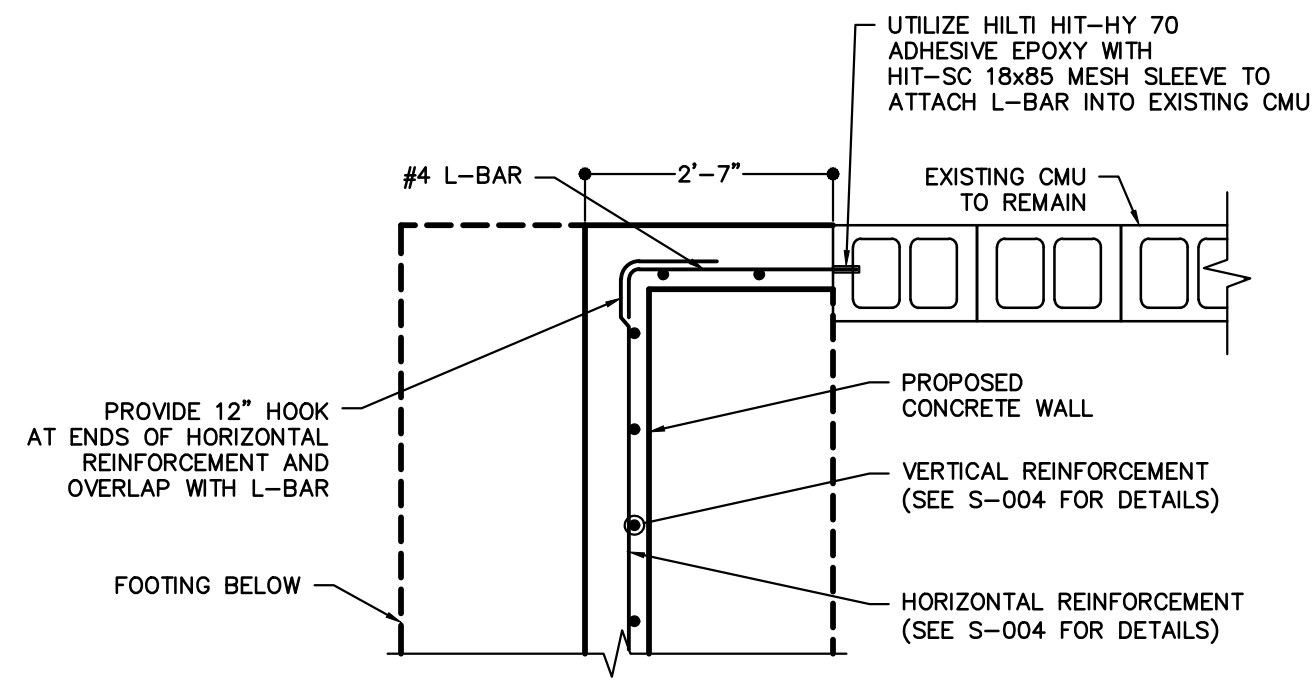
EXPANSION JOINT DETAIL (FOR RETAINING WALL)
N.T.S.

NOTES:
1. EXPANSION JOINTS SHALL BE LOCATED AT 90'-0" O.C. MAXIMUM.
2. CONSTRUCTION JOINT IS SIMILAR TO EXPANSION JOINT, EXCEPT DO NOT GREASE STEEL DOWEL.



TYPICAL STEP FOOTING DETAIL
N.T.S.

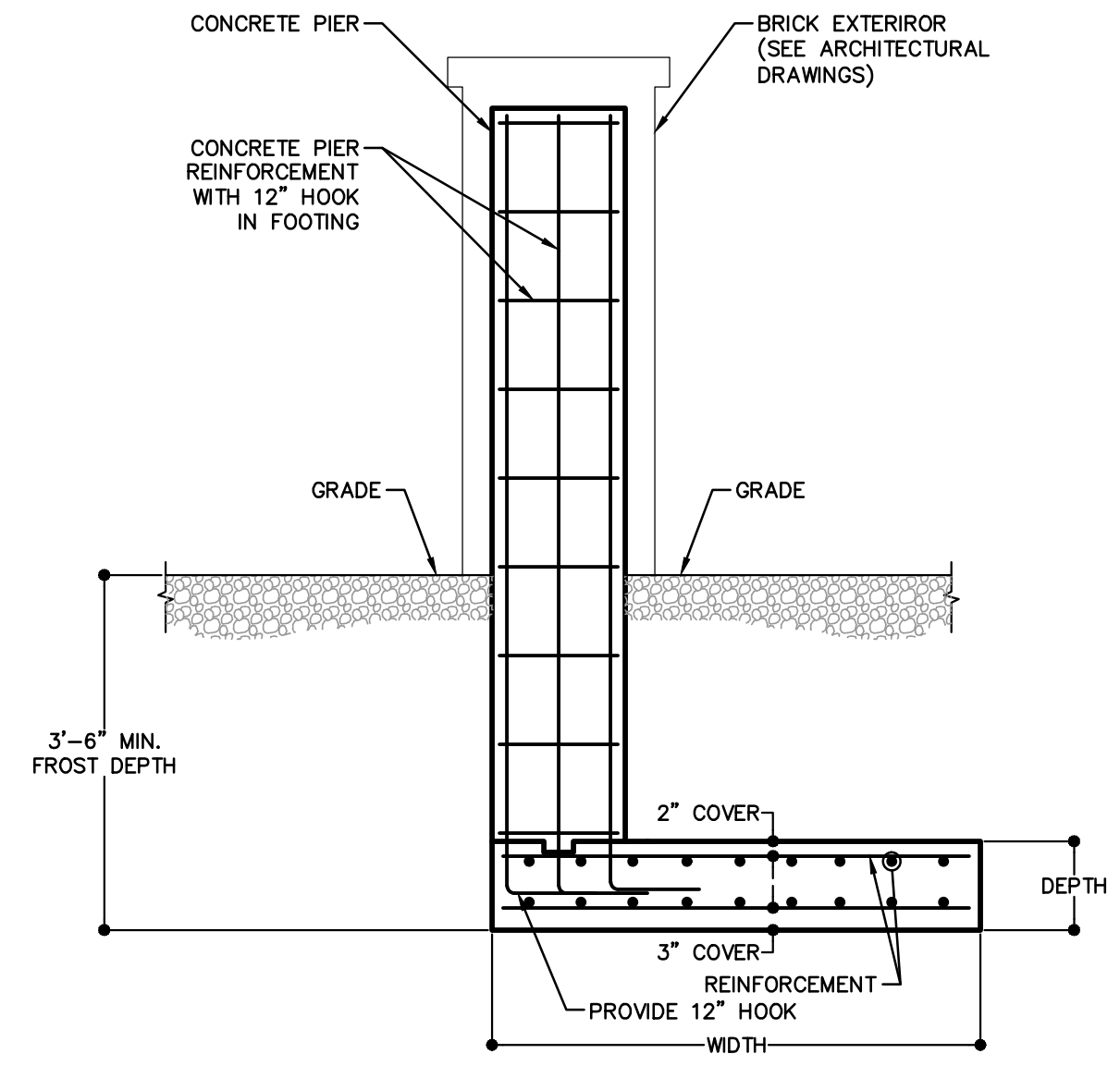
NOTES:
1. THE LOCATION OF THE STEPS ARE TO BE CONFIRMED IN THE FIELD BASED ON THE MINIMUM 3'-6" OF FROST PROTECTION AND UNDISTURBED SUBGRADE BENEATH.
2. SEE THE GEOTECHNICAL REPORT FOR REQUIREMENTS OF SELECTED FILL.



RETAINING WALL CORNER DETAIL
N.T.S.

SPLICE LENGTH TABLE

BAR SIZE	MIN. SPLICE
#3	1'-3"
#4	1'-7"
#5	2'-0"
#6	2'-5"
#7	3'-6"
#8	4'-0"
#9	4'-6"
#10	5'-0"



SPREAD FOOTING DETAIL
N.T.S.

SPREAD FOOTING SCHEDULE

NOTES:
ALL HORIZONTAL REINFORCEMENT IN ADJACENT WALLS TO EXTEND INTO PIER WITH 6" HOOK. PROVIDE ADEQUATE SPLICE FOR FOOTING REINFORCEMENT WITH ADJACENT FOOTING FOR WALL.

	LENGTH x WIDTH	DEPTH	REINFORCEMENT
F1	4'-0" x 4'-0"	1'-0"	#5 @ 8" O.C.E.W. BOTH WAYS TOP AND BOTTOM

FOUNDATION NOTES AND REQUIREMENTS:

- ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED.
- WALL EXPANSION JOINTS AND CRACK CONTROL JOINTS SHALL BE PROVIDED AS SHOWN IN TYPICAL DETAIL. ALLOW 3 DAYS BETWEEN ADJACENT CONCRETE POURS. ADDITIONAL CONSTRUCTION JOINTS MAY BE PROVIDED IF REQUESTED BY THE CONTRACTOR.
- HORIZONTAL REINFORCING SHALL BE CONTINUOUS OR OVERLAPPED AS NEEDED ACROSS ALL CONSTRUCTION JOINTS.
- BACKFILL MATERIAL SHALL BE CLEAN SAND OR GRAVEL CONTAINING NO MORE THAN 10% PASSING A NO. 200 SIEVE. BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% (ASTM D1557) TO THE FINAL SUBGRADE IN LIFTS OF NO MORE THAN 8 INCH THICKNESS (LOOSE MEASURE) WITH A MECHANICAL COMPACTOR (MINIMUM OF THREE PASSES).
- GENERAL CONTRACTOR/SUBCONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, LICENSES AND NOTIFICATIONS PRIOR TO COMMENCING SITE WORK.
- GENERAL CONTRACTOR/SUBCONTRACTOR SHALL REMOVE CONSTRUCTION MATERIAL AND DEBRIS FROM THE SITE DURING AND AT THE COMPLETION OF WORK.
- BOTTOM OF FOOTING ELEVATION SHALL BE 3'-6" BELOW GRADE EXPOSED TO WEATHER AS PER REQUIREMENTS BY NYS FOR FROST PROTECTION, UNLESS FOOTING IS PINNED TO ROCK.
- OWNER TO PERFORM MAINTENANCE PROGRAM TO PROTECT STRUCTURE AGAINST WATER DAMAGE AND CORROSION.

CONCRETE AND REINFORCING NOTES:

- ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH, F'c, OF 4000 PSI WITH 6% AIR-ENTRAINMENT AND A MAXIMUM SLUMP OF 4".
- ALL CONCRETE SHALL BE REINFORCED AND ERECTED IN ACCORDANCE WITH THE NYS BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AS ADOPTED BY ACI 318 AND LOCAL CODES.
- ALL CONCRETE WORK SHALL CONFORM TO ACI 301 STANDARD SPECIFICATIONS FOR REINFORCED CONCRETE.
- ALL CONCRETE SHALL USE PORTLAND CEMENT TYPE II. CONCRETE SHALL BE PROPORTIONED, BATCHED, AND MIXED BY METHOD I OR II OF THE NYS BUILDING CODE. SUBMIT MIX DESIGN AND COMPRESSION TEST RESULTS AS REQUIRED. CONCRETE SHALL CONFORM TO CONTROLLED INSPECTION REQUIREMENTS.
- ALL REINFORCING STEEL SHALL BE DEFORMED HIGH BOND BARS ROLLED FROM NEW BILLET OR INTERMEDIATE GRADE STEEL TO MEET LATEST ASTM SPECIFICATIONS A-615, GRADE 60.
- SPLICES SHALL BE IN CONFORMANCE WITH ACI 318-95 AND SPLICE LENGTH TABLES.
- ACI 305R-99 SHALL BE FOLLOWED FOR HOT WEATHER CONCRETING AND ACI306R-88 SHALL BE FOLLOWED FOR COLD WEATHER CONCRETING WHEN APPLICABLE.
- MINIMUM COVER SPACINGS:
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
 - CONCRETE EXPOSED TO EARTH/WEATHER: 2"
 - CONCRETE NOT EXPOSED TO EARTH/WEATHER OR IN CONTACT WITH GROUND: 1 1/2"

REV	DESCRIPTION	BY	DATE
3	RE-ISSUED FOR CONSTRUCTION	AR	5/9/2018
2	ISSUED FOR CONSTRUCTION	AR	5/16/2016
1	90% PROGRESS SET	AR	3/4/2016

DISCLAIMER:
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PROJECT:
WASHINGTON'S HEADQUARTERS
152 BROADWAY
VILLAGE OF DOBBS FERRY, TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

TITLE:
STRUCTURAL DETAILS (2 OF 2)

STATE OF NEW YORK
60229
PROFESSIONAL ENGINEER

PROJECT NO: 14013	DRAWN: BL	CHECKED: AR
SCALE: AS NOTED		
GRAPHIC SCALE:		
DATE: 05/16/2016	DRAWING NO: S-005	