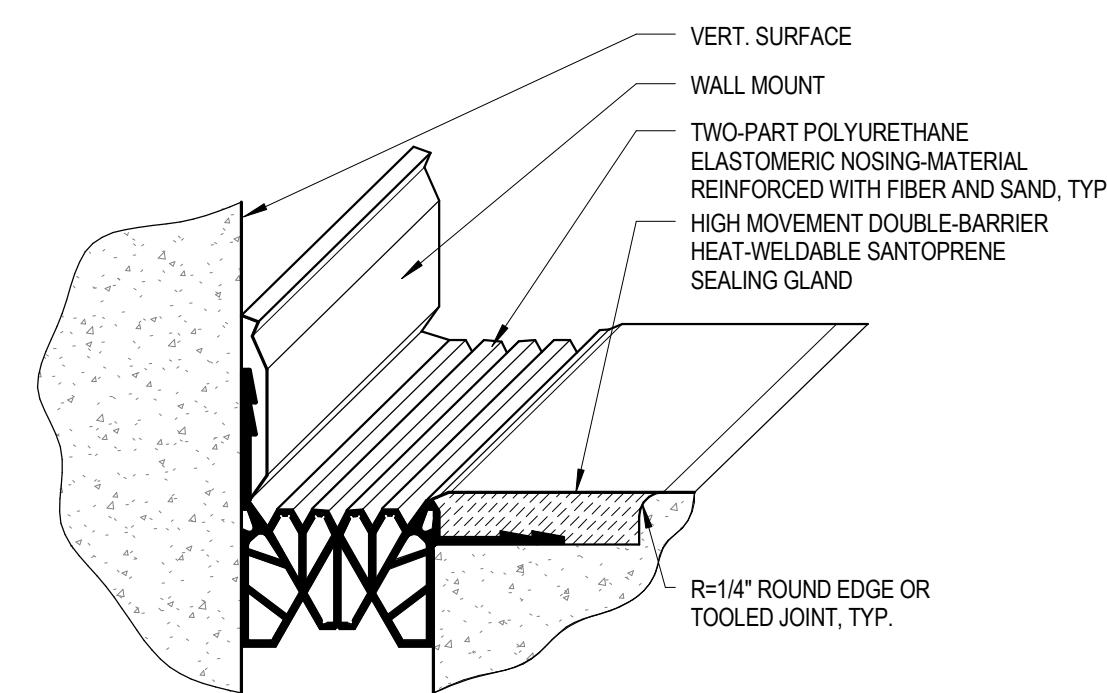


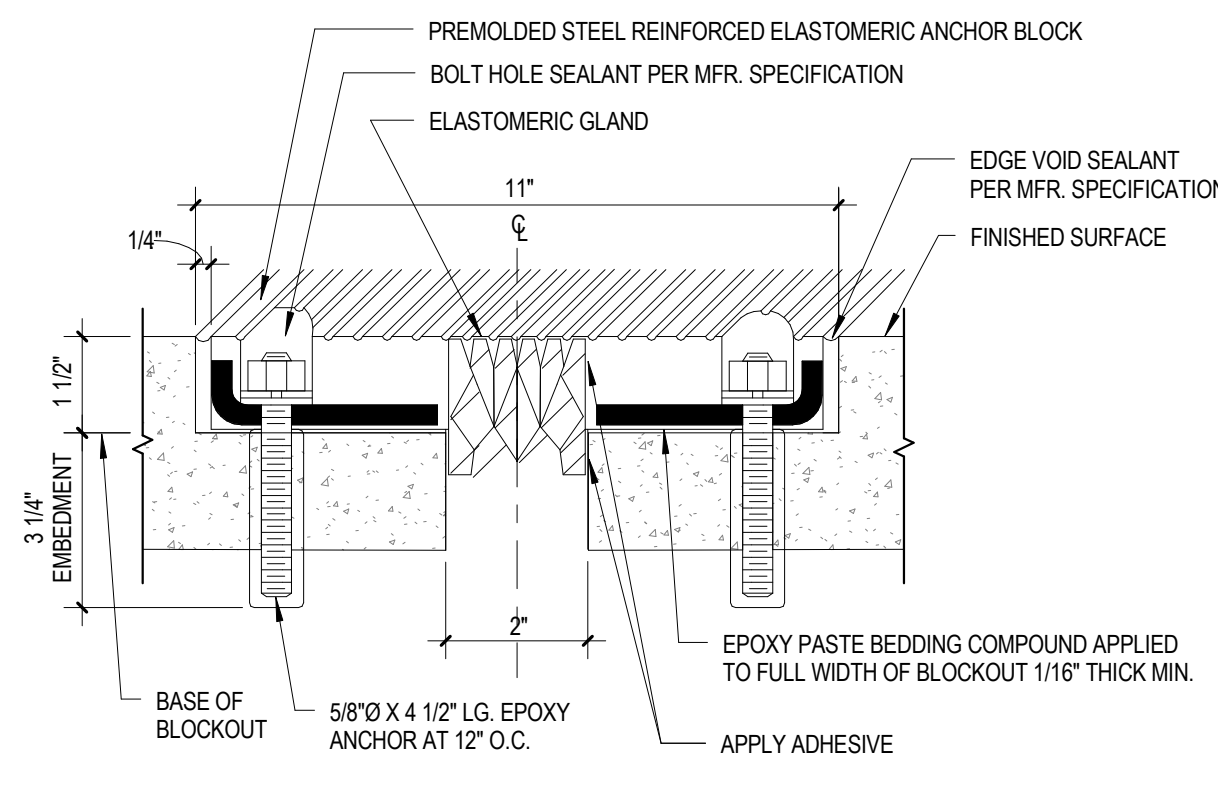
NOTE:
 1. THE GAP SHOWN IS AT A TYPICAL TEMPERATURE (70°F). IT WILL VARY DEPENDING ON THE PREVAILING TEMPERATURE DURING INSTALLATION AS WELL AS MOVEMENT DUE TO SHRINKAGE, CREEP AND ELASTIC SHORTENING OF CONCRETE WHICH MAY OCCUR PRIOR TO ACTUAL INSTALLATION.
 2. THE GAP MAY BE PROGRESSIVELY WIDER AT THE UPPER TIERS.
 3. CONTRACTOR MUST COORDINATE ACTUAL SIZE OF BLOCKOUTS REQUIRED BY EXPANSION JOINTS WITH THE EXPANSION JOINT INSTALLER.
 4. THE EXPANSION JOINT SYSTEM MUST BE ADA ACCESSIBLE.

01 TYPICAL EXPANSION JOINT
 6" = 1'-0"



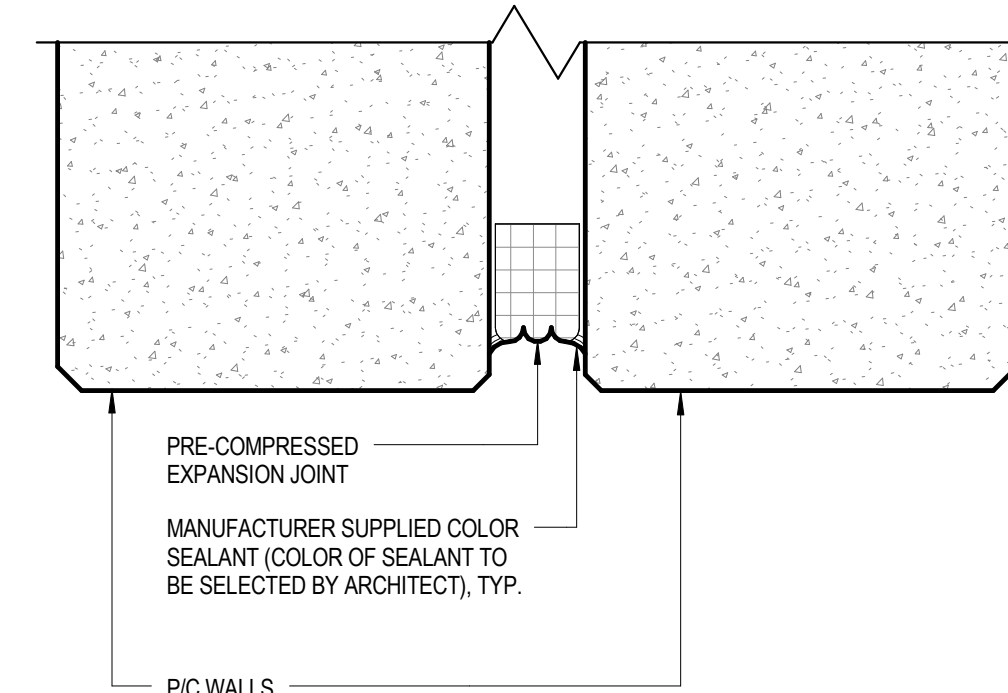
NOTE:
 1. THE GAP SHOWN IS AT A TYPICAL TEMPERATURE (70°F). IT WILL VARY DEPENDING ON THE PREVAILING TEMPERATURE DURING INSTALLATION AS WELL AS MOVEMENT DUE TO SHRINKAGE, CREEP AND ELASTIC SHORTENING OF CONCRETE WHICH MAY OCCUR PRIOR TO ACTUAL INSTALLATION.
 2. THE GAP MAY BE PROGRESSIVELY WIDER AT THE UPPER TIERS.
 3. CONTRACTOR MUST COORDINATE ACTUAL SIZE OF BLOCKOUTS REQUIRED BY EXPANSION JOINTS WITH THE EXPANSION JOINT INSTALLER.
 4. THE EXPANSION JOINT SYSTEM MUST BE ADA ACCESSIBLE.

02 TYPICAL EXPANSION JOINT (AT VERTICAL SURFACE)
 6" = 1'-0"



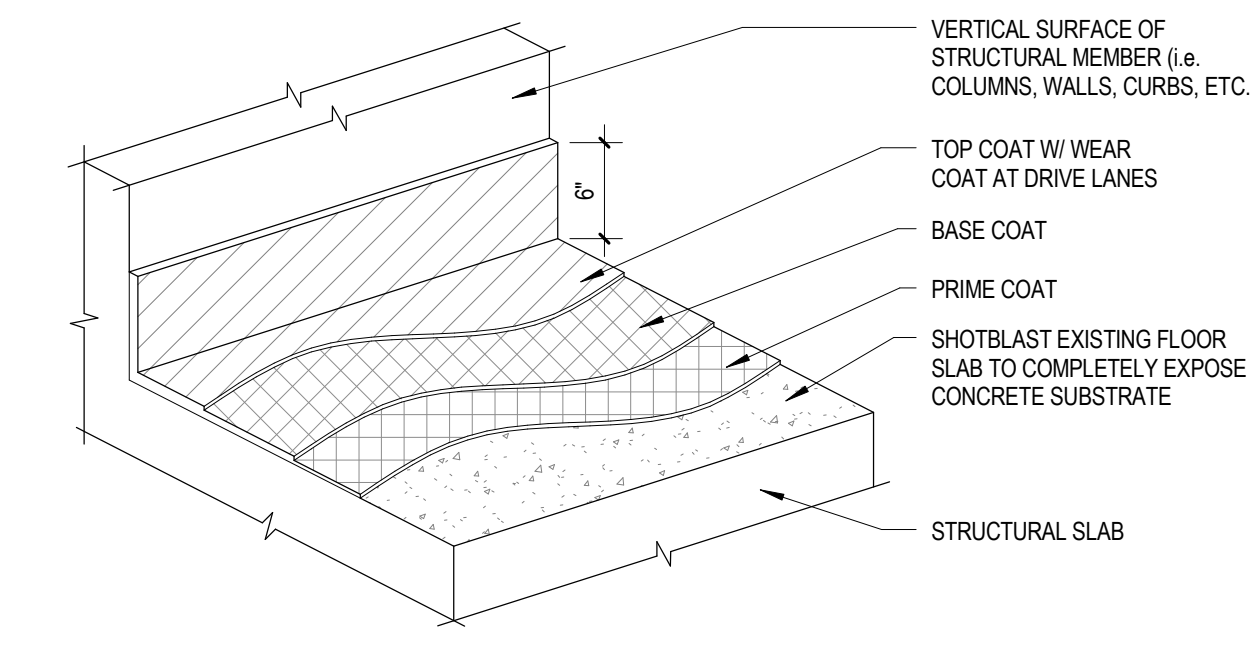
NOTES:
 1. THE GAP SHOWN IS AT A TYPICAL TEMPERATURE (70°F). IT WILL VARY DEPENDING ON THE PREVAILING TEMPERATURE DURING INSTALLATION AS WELL AS MOVEMENT DUE TO SHRINKAGE, CREEP AND ELASTIC SHORTENING OF CONCRETE WHICH MAY OCCUR PRIOR TO ACTUAL INSTALLATION.
 2. THE C.I.P. & P.C. CONCRETE CONTRACTOR MUST COORDINATE ACTUAL SIZE OF BLOCKOUTS REQUIRED BY EXPANSION JOINT MATERIAL WITH THE JOINT INSTALLER.
 3. EXTRUDED (BOLTED) EXPANSION JOINT MUST BE INSTALLED AT THE TOP LEVEL.
 4. PROVIDE 6" VERTICAL RETURN (UP) AT WALL OR COLUMN TERMINATION AS APPLICABLE.

03 EXPANSION JOINT AT TOP TIER
 3" = 1'-0"



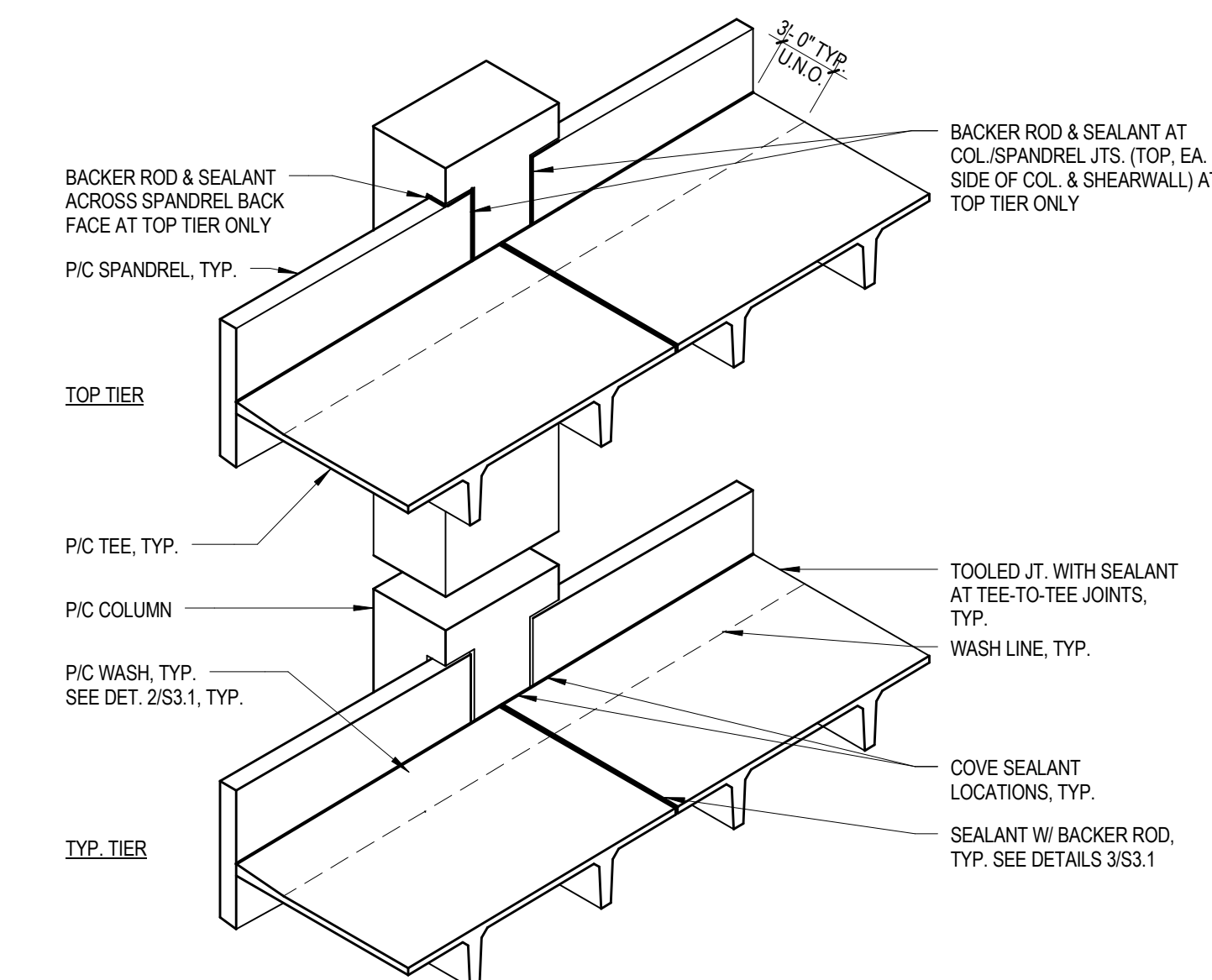
NOTE:
 1. PROVIDE CONT. COMPRESSIBLE EXP. JT. AT ALL HORIZ. & VERT. JOINTS EXPOSED TO VIEW BETWEEN DECK & STAIRS/ELEVATORS. PROVIDE STRUCTURAL FLOOR EXPANSION JOINTS AT LOCATIONS SUBJECT TO VEHICULAR & PEDESTRIAN TRAFFIC PER OTHER APPROPRIATE DETAILS.
 2. WATERPROOFING CONTR. TO FIELD VERIFY WIDTH OF JOINTS PRIOR TO INSTALLATION OF PRE-COMPRESSED EXP. JT.

04 COMPRESSIBLE EXPANSION JOINT
 3" = 1'-0"

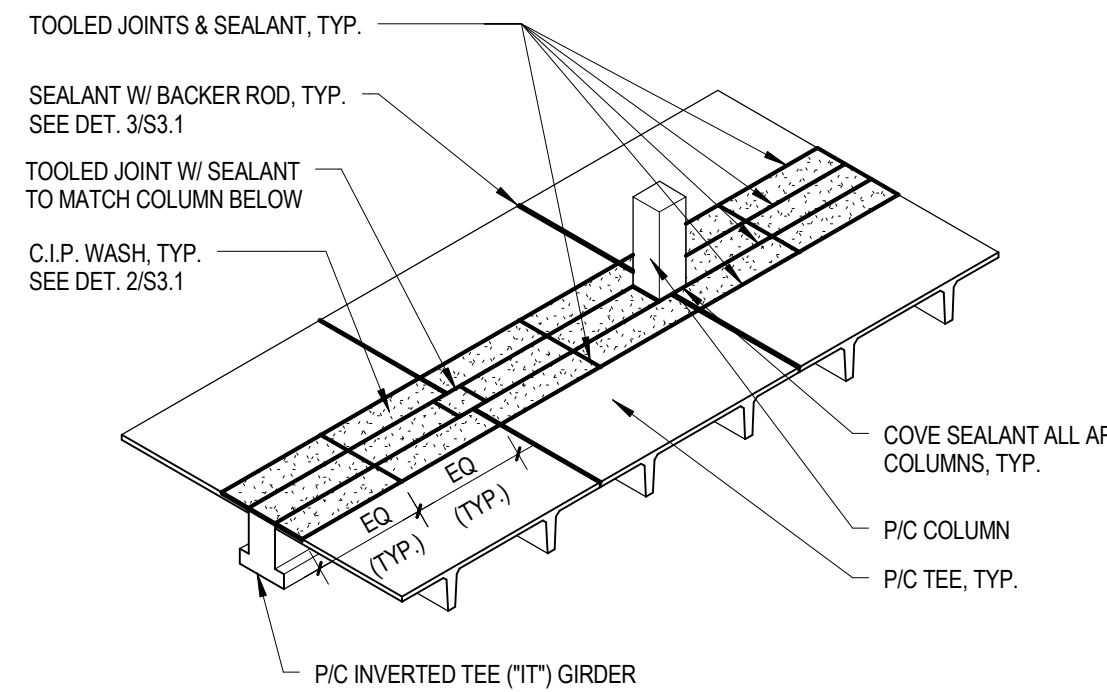


INSTALLATION PROCEDURE:
 1. DEGREASE AND SHOT BLAST EXISTING FLOOR SURFACES.
 2. PREPARE SURFACE & CRACKS IN ACCORDANCE WITH MANUFACTURING REQUIREMENTS AND PROCEDURES. SEE SPECIFICATION SECTION 07902 FOR ADDITIONAL REQUIREMENTS.
 3. APPLY COATING AS SHOWN PER SPECIFICATION SECTION 07902 AND PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
 4. REFER TO STRUCTURAL PLAN SHEETS FOR LOCATIONS OF TRAFFIC DECK COATING APPLICATION.

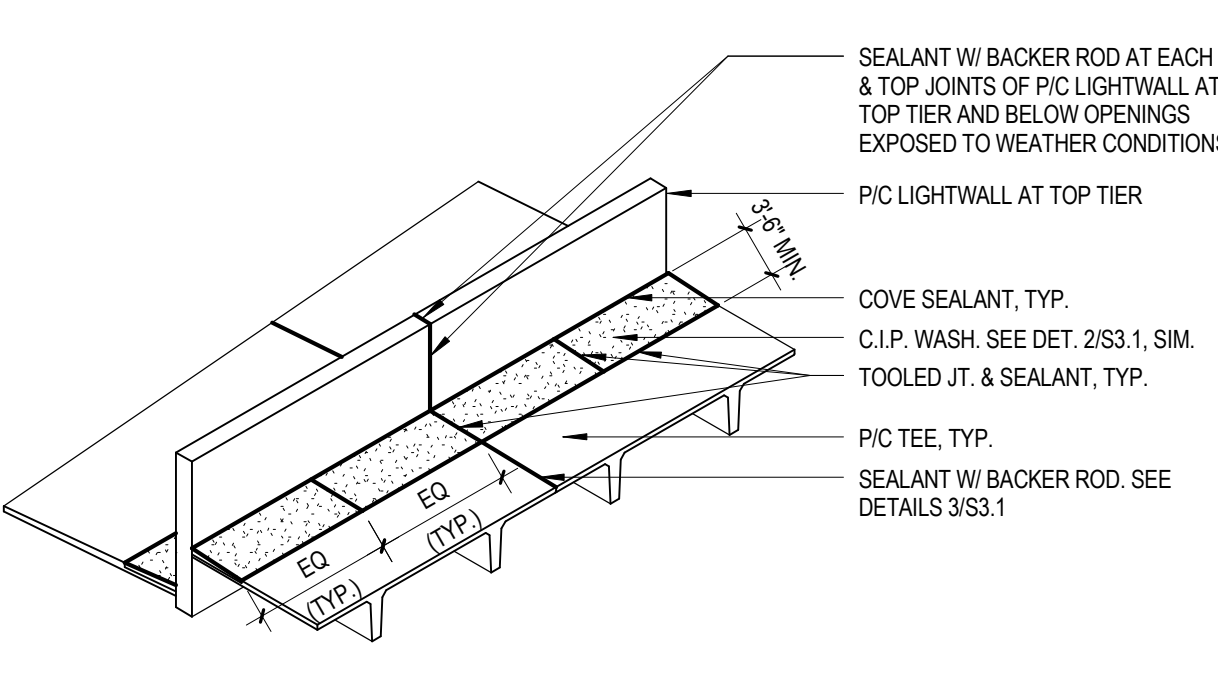
05 TRAFFIC DECK COATING APPLICATION
 1" = 1'-0"



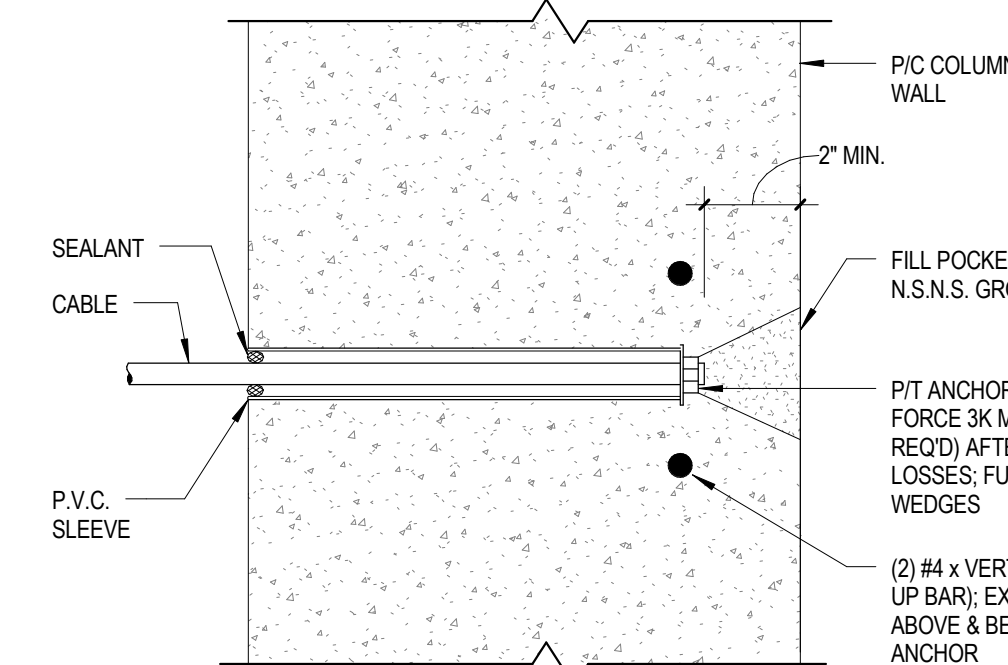
06 EXTERIOR OUTBOARD COLUMN JOINT SEALANT ISOMETRIC
 1/4" = 1'-0"



07 INTERIOR COLUMN JOINT SEALANT ISOMETRIC
 1/4" = 1'-0"



08 INTERIOR WALL JOINT SEALANT ISOMETRIC
 1/4" = 1'-0"



09 BARRIER CABLE ANCHOR DETAIL
 3" = 1'-0"

Revisions:	Date	
4	100% Submission	2/16/15
3	95% Submission	8/28/14
2	65% Submission	8/07/14

CONSULTANTS:	
ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210	PARKING CONSULTANT Tim Haas & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422
STRUCTURAL ENGINEER Tim Haas & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422	MEP ENGINEER DCS Infrastructure, Inc. 3249 Route 112, Suite 1B Medford, NY 11763

SEAL:

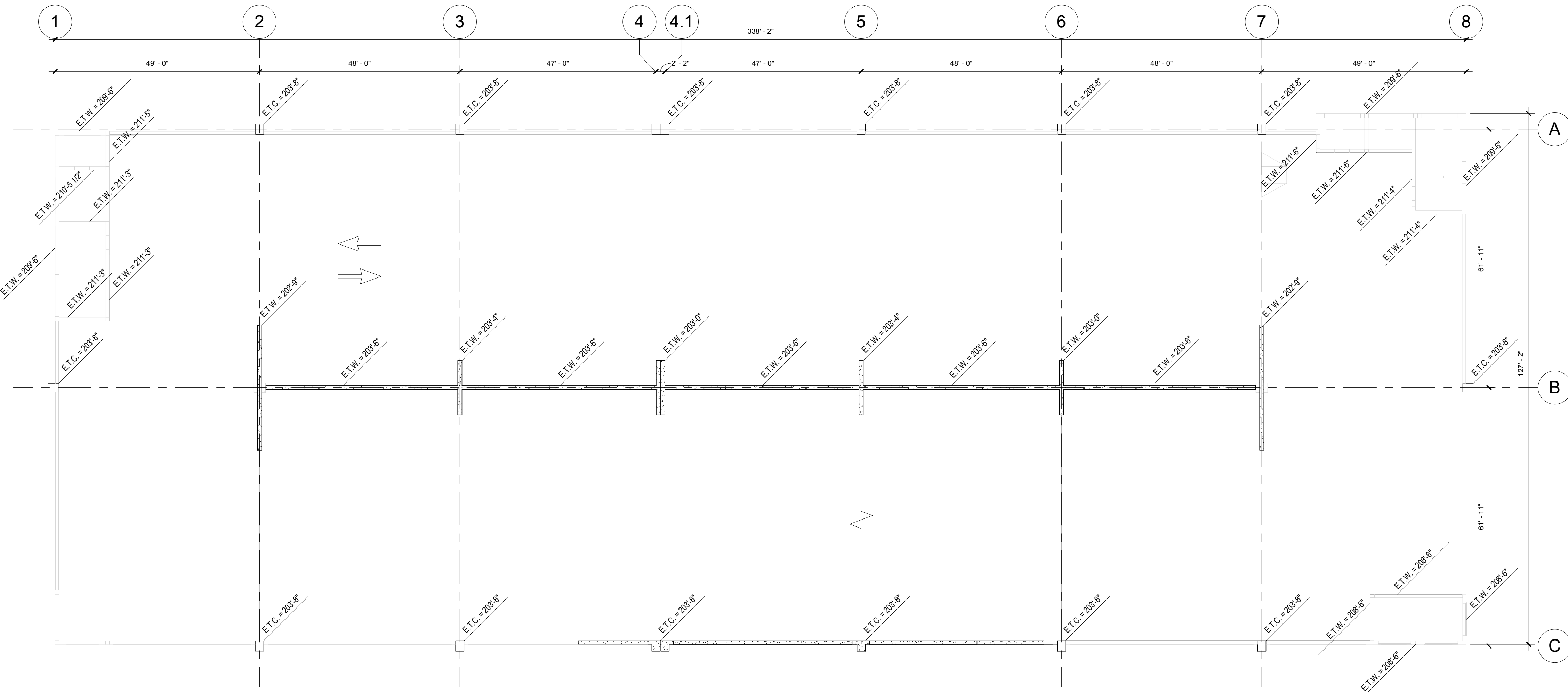
ARCHITECT/ENGINEERS:
Melville Thomas Architects, Inc.
 ARCHITECTURE & PLANNING

 400 Wyndhurst Ave., Suite 315 Baltimore, MD 21210
 T. 410.423.4400 F. 410.423.4719
 www.mtarx.com

Drawing Title
STRUCTURAL GENERAL DETAILS
Approved: Project Director

Project Title	Project Number
VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1	688-345
Location 50 IRVING ST. N.W. WASHINGTON, D.C.	Building Number -
Date 02/16/15	Drawing Number S0.2
Checked NCA	Drawn BSS
Dwg. 40 of 89	

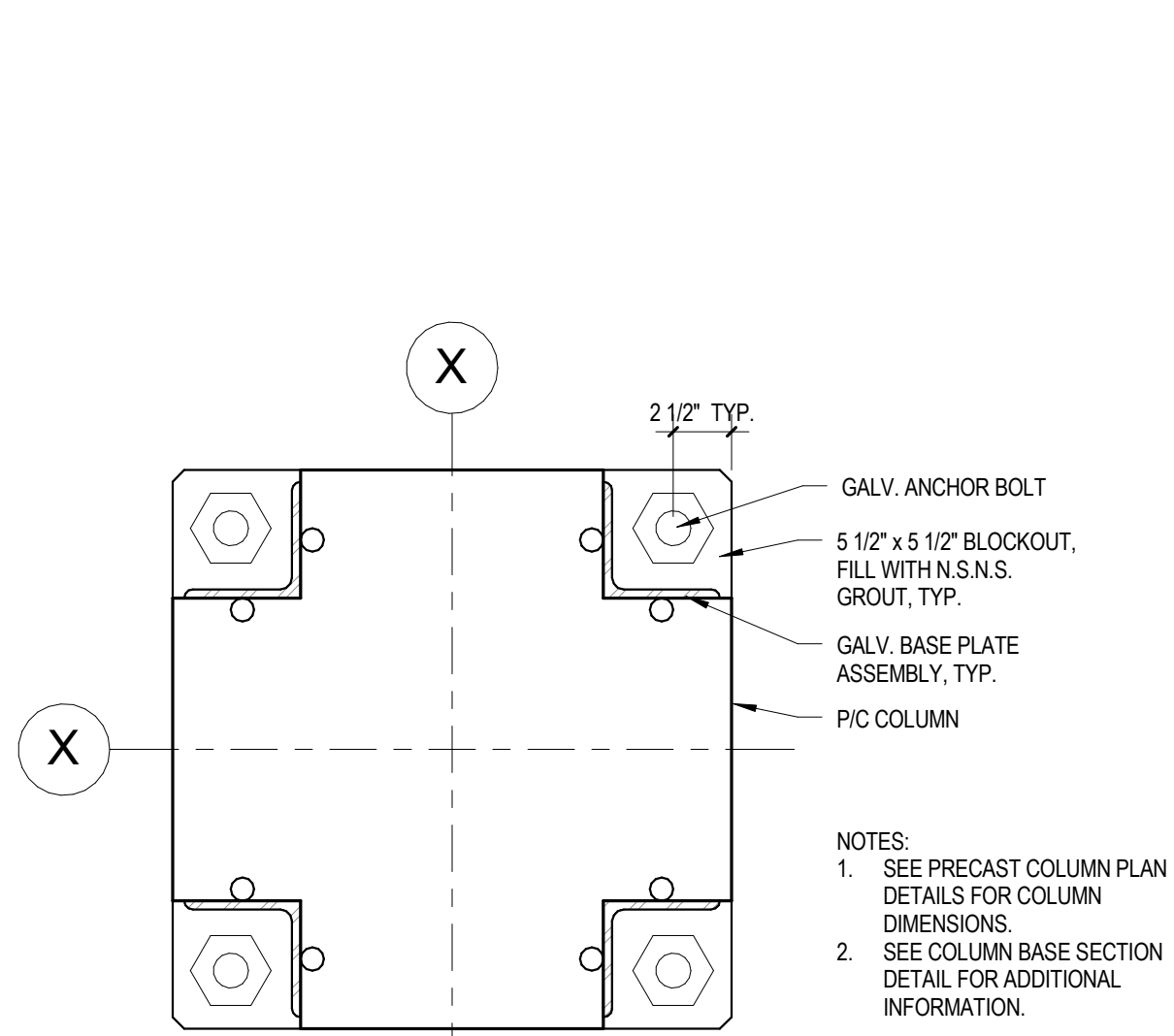
Office of
Construction
and Facilities
Management



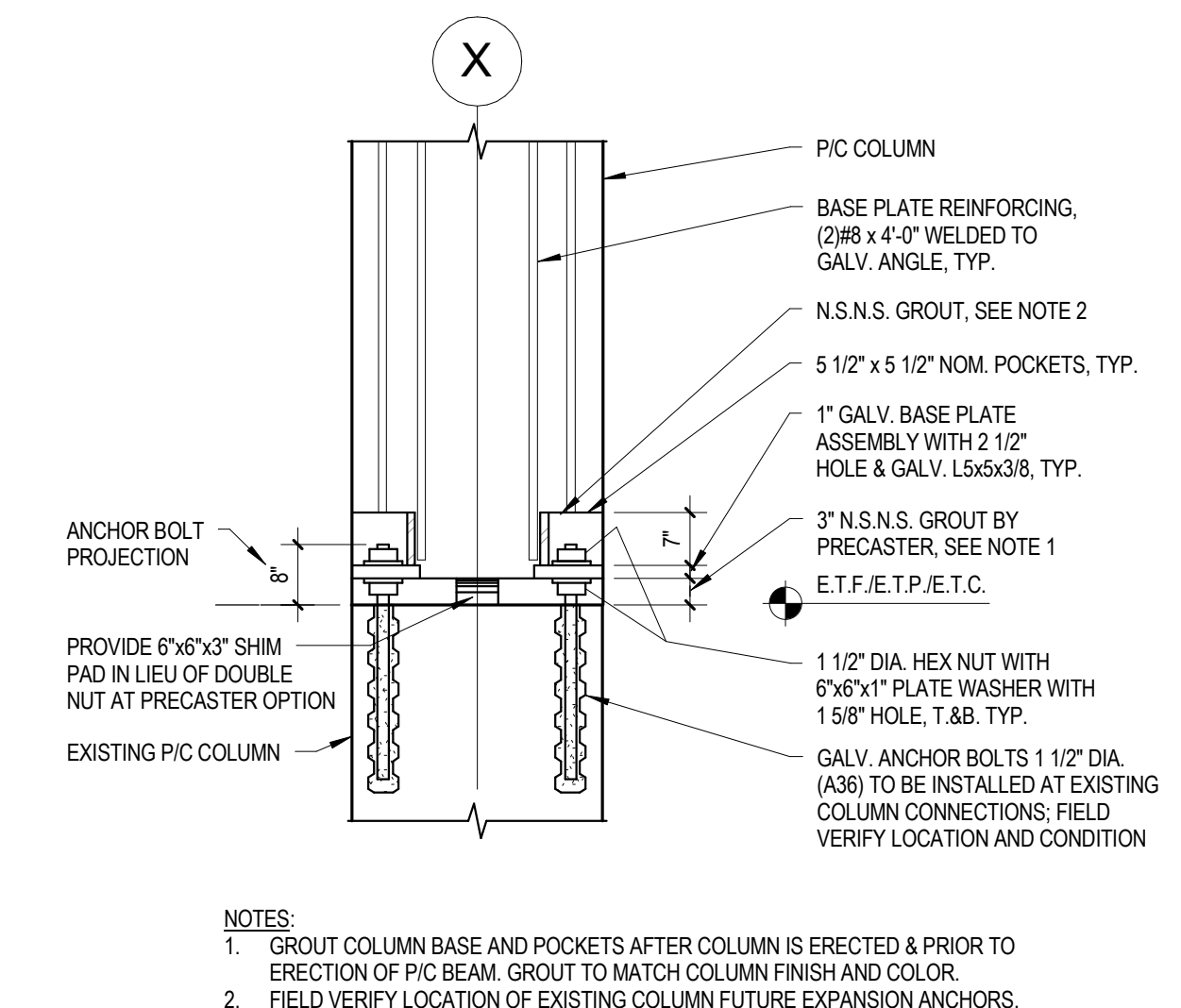
01 ANCHOR BOLT & CONNECTION PLAN (BETWEEN NEW AND EXISTING GARAGE)
1/16" = 1'-0"

BASE ELEVATION = 200'-0"

- SHEET NOTES:**
- ELEVATIONS AND LOCATIONS OF PRECAST MEMBERS ARE BASED ON PRECAST SHOP DRAWINGS FROM PHASE 1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE AN ACCURATE SURVEY OF EXISTING CONDITIONS.
 - REFER TO SHEET S01 FOR GENERAL NOTES.
 - REFER TO SHEET S02 FOR GENERAL DETAILS.
 - BASE EL REPRESENTS THE BENCH MARK BY WHICH ACTUAL ELEVATIONS ARE CALCULATED BY ADDING OR SUBTRACTING ELEVATIONS SHOWN ON THE SPECIFIC LOCATION OF FOUNDATIONS.



02 PRECAST COLUMN BASE PLAN
N.T.S.

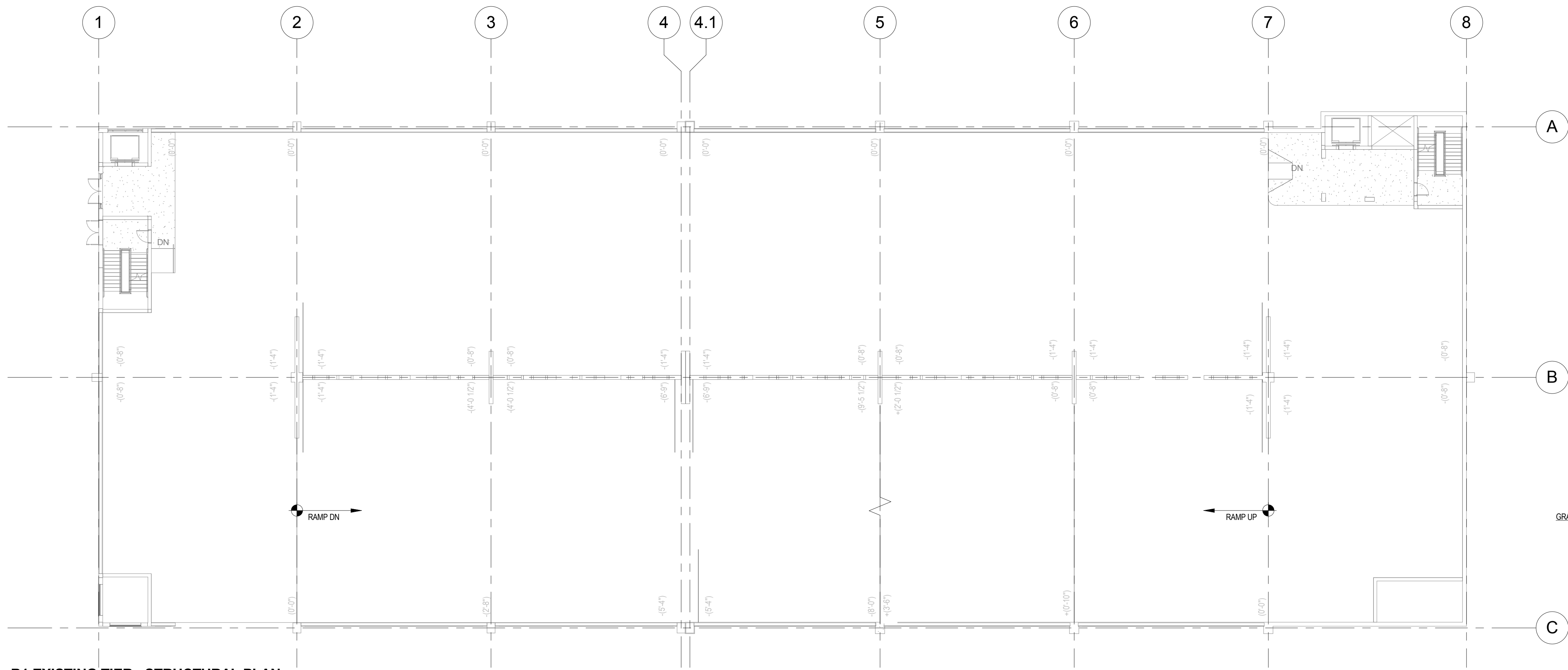


03 PRECAST COLUMN BASE SECTION
N.T.S.

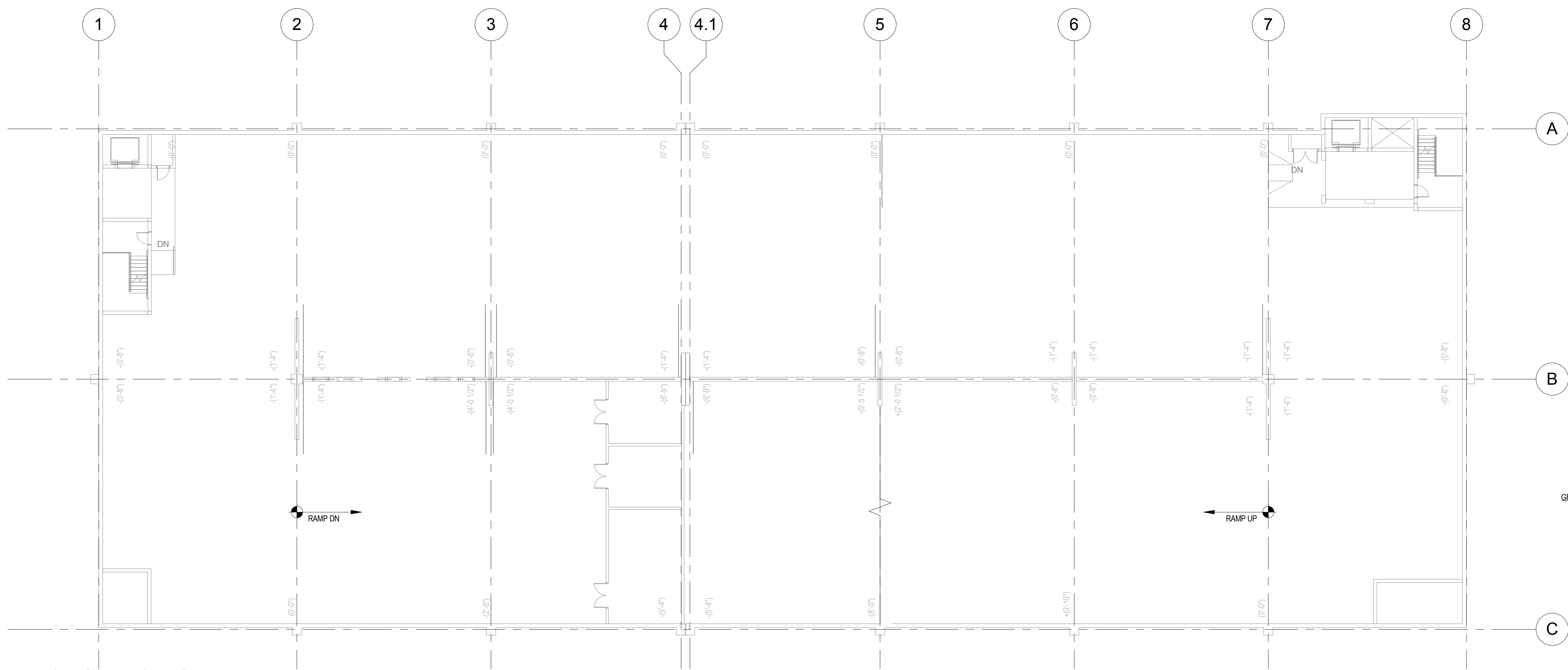
- DEDUCT ALTERNATES (ALT.)**
- DEDUCT ALT. #1 - PERFORATED METAL SCREEN WALLS**
BASE: Perforated metal screen with accent lighting as shown on the drawings.
DEDUCT: Delete perforated metal screen and supporting structure as shown on Drawings(0)A2, 1 and 03A2.2, delete accent lighting as shown on Drawings(0) 01A2.4, 02A2.4, 11A2.2 and 02E1.4
 - DEDUCT ALT. #2 - ELEVATOR LOBBY UPGRADES**
BASE: Elevator finishes as shown on the drawings.
DEDUCT: Delete exposed aggregate finish on concrete floor as shown in Drawing(s) 01A3.1, 01A3.2, 04A3.2 and 05A3.2 and substitute smooth trowel finish, delete suspended metal ceilings as shown on Drawing(s) A4.1 and A4.2, provide substitute light fixtures as shown on future schedule E0.0 and Drawing(s) A4.1 and A4.2.
 - DEDUCT ALT. #3 - SITE IMPROVEMENTS**
BASE: All site work shown on the drawings.
DEDUCT: Provide only the site work shown on Drawing(s) 01C3.1 and C3.2.
 - DEDUCT ALT. #4 - LANDSCAPE AND SITE FURNISHINGS**
BASE: All landscape work and site furnishings shown on the drawings.
DEDUCT: Provide only the landscape work and site furnishings shown on Drawing(s) 01LP7.0 and LP7.1.
 - DEDUCT ALT. #5 - AUTOMATIC DOOR OPENING DEVICES**
BASE: All automatic door opening devices shown on the drawings and hardware schedule.
DEDUCT: Provide manual door closer as specified in Spec Section(s) 08710. Delete electrical feeds shown on Drawing(s) 01E2.1, 01E2.4 and 02E2.4.
 - DEDUCT ALT. #6 - CARD READERS**
BASE: All card readers shown on the drawings and hardware schedule.
DEDUCT: Provide manual door locklatches as specified in Spec Section(s) 08710. Delete electrical feeds shown on Drawing(s) 02E2.2, 01E2.4 and 02E3.2.
 - DEDUCT ALT. #7 - BARRIER CABLE SYSTEM**
BASE: Barrier cable system as shown on the drawings.
DEDUCT: Delete barrier cables at exterior openings as shown on Drawing(s) A2.1, A2.2 and 06A2.4.
 - DEDUCT ALT. #8 - CRASH BARRIER, BOLLARDS AND SECURITY GATES**
BASE: All crash barriers, bollards, and security gates shown on the drawings.
DEDUCT: Delete all crash barriers, bollards, and security gates shown on Drawing(s) 01C3.0, 04LP7.1 and 05LP7.1.
 - DEDUCT ALT. #9 - SITE FENCING**
BASE: All site fencing shown on the drawings.
DEDUCT: Delete all site fencing shown on Drawing(s) 01C3.0 and 06LP7.1.
 - DEDUCT ALT. #10 - INTERIOR GARAGE BARRIER FENCING**
BASE: All cable type barrier fencing shown on the drawings.
DEDUCT: Provide chain link barrier fencing shown on Drawing(s) S2.1 and 06S3.3.
 - DEDUCT ALT. #11 - SECURITY CAMERAS**
BASE: Security cameras as shown on the drawings.
DEDUCT: Delete security cameras and appearances (conduit, junction boxes, and power) shown on Drawing(s) E3.3, E3.4 and 02E3.5.
 - DEDUCT ALT. #12 - LED LIGHTING**
BASE: LED lighting as shown on the drawings.
DEDUCT: Provide substitute light fixtures as shown on future schedule E0.0 and as shown on Drawing(s) E1.4, E1.5 and E1.6.
 - DEDUCT ALT. #13 - SECURITY BOOTH**
BASE: Security booth as shown on the drawings.
DEDUCT: Delete security booth and appearances shown on Drawing(s) A4.3, 02E1.4, 03E2.2 and 01E2.3.
 - DEDUCT ALT. #14 - PARKING TIERS**
BASE: 2-1/2 new tiers parking tiers as shown on the drawings.
DEDUCT: Delete 1/2 tier and connecting ramp as shown on Drawing(s) 02A1.2, 02A1.6, A2.1, A2.2, 01S1.5, 02M1.3, 02P1.3, 03FP1.3, 02E1.6, 02E2.4 and 02E3.4.

<p>CONSULTANTS:</p> <p>ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210</p> <p>PARKING CONSULTANT Tim Haas & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422</p> <p>COST ESTIMATOR DMS Construction Consulting Services, Inc. 5500 Sterrett Place, Suite 300 Columbia, MD 21044</p> <p>CIVIL ENGINEER KCI Technologies, Inc. DCS Infrastructure, Inc. 3249 Route 112, Suite 1B Medford, NY 11763</p>		<p>SEAL:</p> <p>ARCHITECT/ENGINEERS: Melville Thomas Architects, Inc. ARCHITECTURE & PLANNING</p> <p>TimHaas</p> <p>400 Wyndhurst Ave., Suite 315 Baltimore, MD 21210 T: 410.433.4400 F: 410.433.4719 www.mtarx.com</p>		<p>Drawing Title ANCHOR BOLT PLAN & DETAILS - EXISTING & NEW WORK</p> <p>Approved: Project Director</p>		<p>Project Title VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1</p> <p>Location 50 IRVING ST. N.W. WASHINGTON, D.C.</p> <p>Date 02/16/15</p>		<p>Project Number 688-345</p> <p>Building Number -</p> <p>Drawing Number S1.0</p> <p>Dwg. 41 of 89</p>		<p>As indicated</p> <p>Office of Construction and Facilities Management</p> <p>Department of Veterans Affairs</p>	
--	--	--	--	--	--	--	--	---	--	--	--

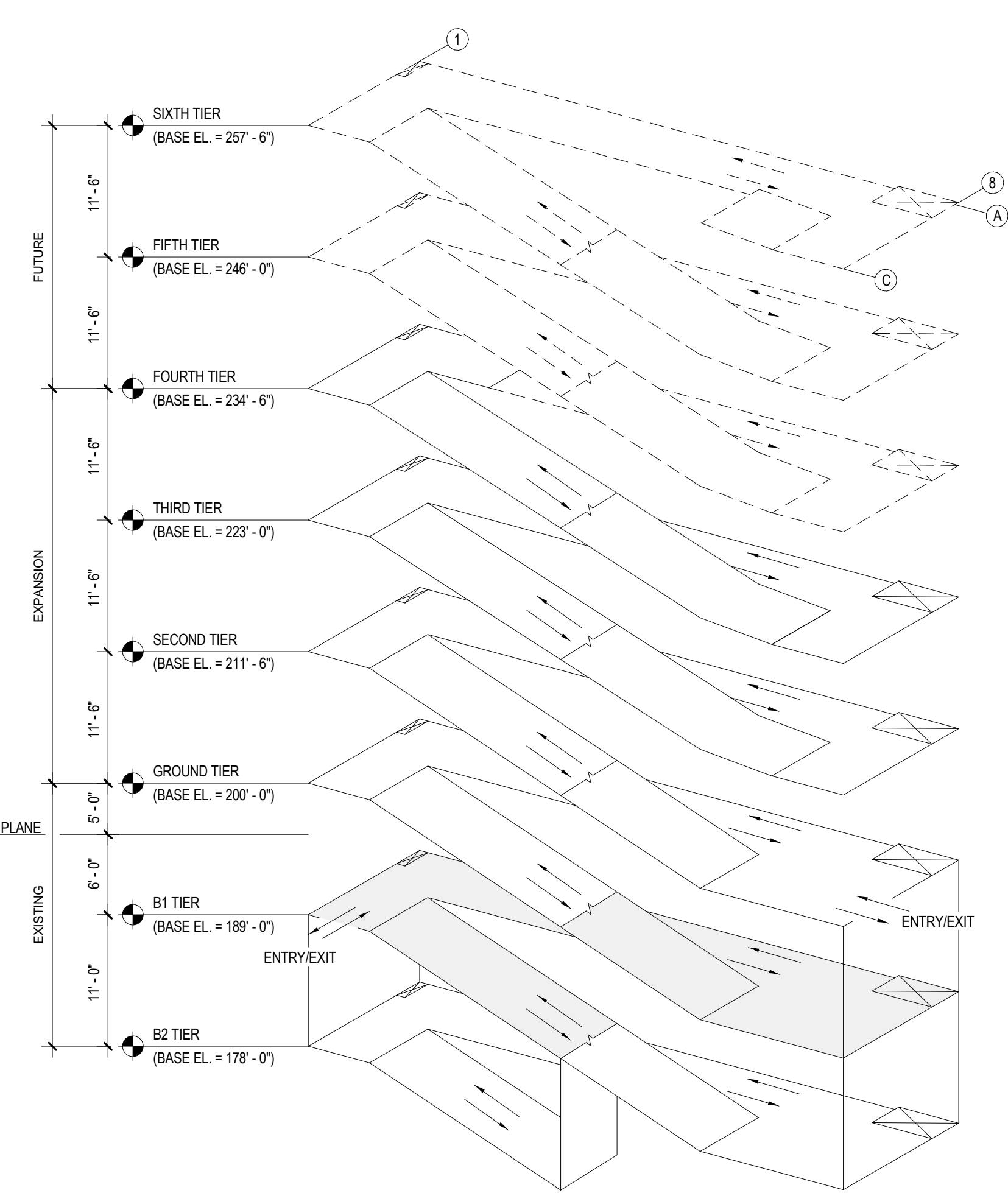
three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot



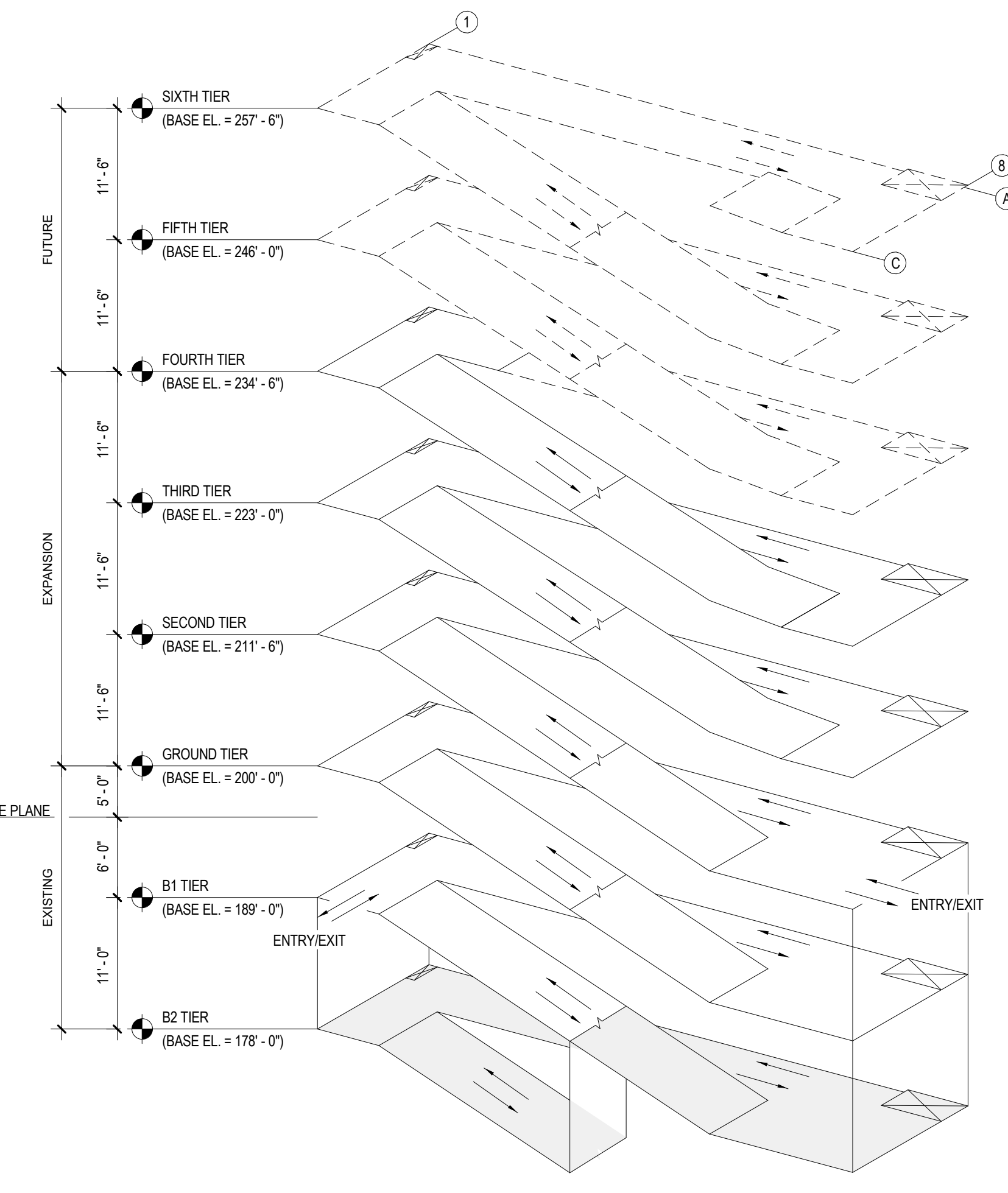
01 B1 EXISTING TIER - STRUCTURAL PLAN
 1/16" = 1'-0"



02 B2 EXISTING TIER - STRUCTURAL PLAN
 1/16" = 1'-0"



KEY PLAN ISOMETRIC



KEY PLAN ISOMETRIC

- DEDUCT ALTERNATES (ALT.)**
- DEDUCT ALT. #1 - PERFORATED METAL SCREEN WALLS**
 BASE: Perforated metal screen with accent lighting as shown on the drawings.
 DEDUCT: Delete perforated metal screen and supporting structure as shown on Drawing(s) 05A2.1 and 03A2.2, delete accent lighting as shown on Drawing(s) 01A2.4, 02A2.4, 11A2.2 and 02E1.4.
 - DEDUCT ALT. #2 - ELEVATOR LOBBY UPGRADES**
 BASE: Elevator finishes as shown on the drawings.
 DEDUCT: Delete exposed aggregate finish on concrete floor as shown in Drawing(s) 01A3.1, 01A3.2, 04A5.2 and 05A5.2 and substitute smooth trowel finish. Delete suspended metal ceilings as shown on Drawing(s) A4.1 and A4.2, provide substitute light fixtures as shown on fixture schedule E0.0 and Drawing(s) A4.1 and A4.2.
 - DEDUCT ALT. #3 - SITE IMPROVEMENTS**
 BASE: All site work shown on the drawings.
 DEDUCT: Provide only the site work shown on Drawing(s) 01VCS3.1 and CS3.2.
 - DEDUCT ALT. #4 - LANDSCAPE AND SITE FURNISHINGS**
 BASE: All landscape work and site furnishings shown on the drawings.
 DEDUCT: Provide only the landscape work and site furnishings shown on Drawing(s) 01LPT.0 and LPT.1.
 - DEDUCT ALT. #5 - AUTOMATIC DOOR OPENING DEVICES**
 BASE: All automatic door opening devices shown on the drawings and hardware schedule.
 DEDUCT: Provide manual door closer as specified in Spec Section(s) 087100. Delete electrical feeds shown on Drawing(s) 01E2.1, 01E2.4 and 02E2.4.
 - DEDUCT ALT. #6 - CARD READERS**
 BASE: All card readers shown on the drawings and hardware schedule.
 DEDUCT: Provide manual door lockslatches as specified in Spec Section(s) 087100. Delete electrical feeds shown on Drawing(s) 02E2.2, 01E2.4 and 02E3.2.
 - DEDUCT ALT. #7 - BARRIER CABLE SYSTEM**
 BASE: Barrier cable system as shown on the drawings.
 DEDUCT: Delete barrier cables at exterior openings as shown on Drawing(s) A2.1, A2.2 and 02A2.4.
 - DEDUCT ALT. #8 - CRASH BARRIER, BOLLARDS AND SECURITY GATES**
 BASE: All crash barriers, bollards, and security gates shown on the drawings.
 DEDUCT: Delete all crash barriers, bollards, and security gates shown on Drawing(s) 01VCS3.0, 04LPT.1 and 05LPT.1.
 - DEDUCT ALT. #9 - SITE FENCING**
 BASE: All site fencing shown on the drawings.
 DEDUCT: Delete all site fencing shown on Drawing(s) 01VCS3.0 and 02LPT.1.
 - DEDUCT ALT. #10 - INTERIOR GARAGE BARRIER FENCING**
 BASE: All interior garage barrier fencing shown on the drawings.
 DEDUCT: Provide chain link barrier fencing shown on Drawing(s) S2.1 and 06S3.3.
 - DEDUCT ALT. #11 - SECURITY CAMERAS**
 BASE: Security cameras as shown on the drawings.
 DEDUCT: Delete security cameras and appearances (conduit, junction boxes, and power) shown on Drawing(s) E3.3, E3.4 and 02E3.5.
 - DEDUCT ALT. #12 - LED LIGHTING**
 BASE: LED lighting as shown on the drawings.
 DEDUCT: Provide substitute light fixtures as shown on fixture schedule E0.0 and as shown on Drawing(s) E1.4, E1.5 and E1.6.
 - DEDUCT ALT. #13 - SECURITY BOOTH**
 BASE: Security booth as shown on the drawings.
 DEDUCT: Delete security booth and appearances shown on Drawing(s) A4.3, 02E1.4, 03E2.2 and 01E2.3.
 - DEDUCT ALT. #14 - PARKING TIERS**
 BASE: 2-1/2 new tiers parking tiers as shown on the drawings.
 DEDUCT: Delete 1/2 tier and connecting ramp as shown on Drawing(s) 02A1.2, 02A1.5, A2.1, A2.2, 01S1.5, 02M1.3, 02P1.3, 03FP1.3, 02E1.6, 02E2.4 and 02E3.4.

Revisions:	Date	
4	100% Submission	2/16/15
3	95% Submission	8/28/14
2	65% Submission	8/07/14

CONSULTANTS:	
ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210	PARKING CONSULTANT Tim Haahs & Associates, Inc. 550 Stennett Place, Suite 300 Columbia, MD 21044
STRUCTURAL ENGINEER Tim Haahs & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422	MEP ENGINEER DCS Infrastructure, Inc. 3249 Route 112, Suite 1B Medford, NY 11763
COST ESTIMATOR DMS Construction Consulting Services, Inc. 550 Stennett Place, Suite 300 Columbia, MD 21044	CIVIL ENGINEER KCI Technologies, Inc. 936 Roggenbush Road Sparks, MD 21152

SEAL:

ARCHITECT/ENGINEERS:

Melville Thomas Architects, Inc.
 ARCHITECTURE & PLANNING

400 Wyndhurst Ave., Suite 315 Baltimore, MD 21210
 T. 410.433.4400 F. 410.433.4719
 www.mtarx.com

Drawing Title B2 & B1 TIER STRUCTURAL PLANS - EXISTING	
Approved: Project Director	

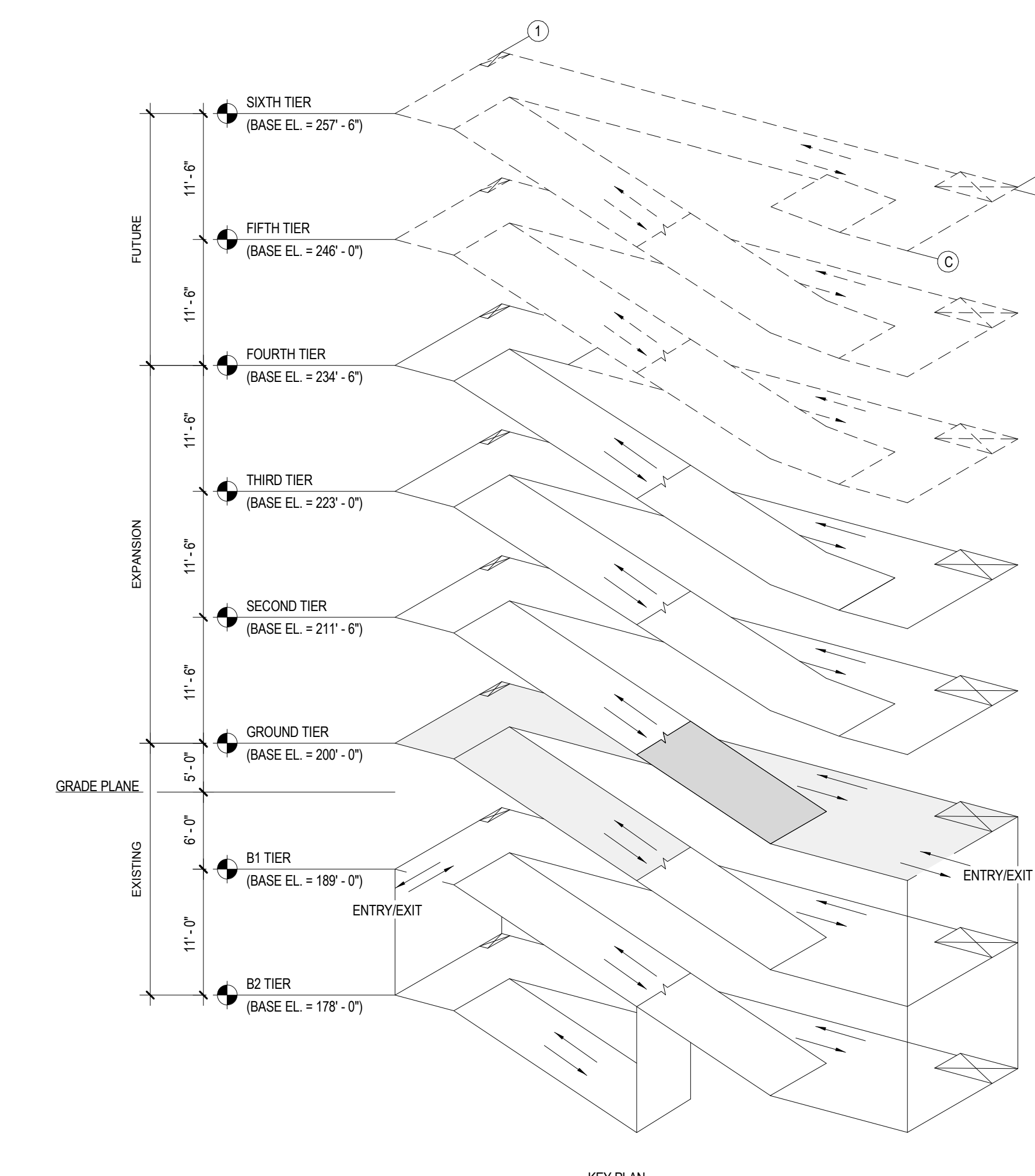
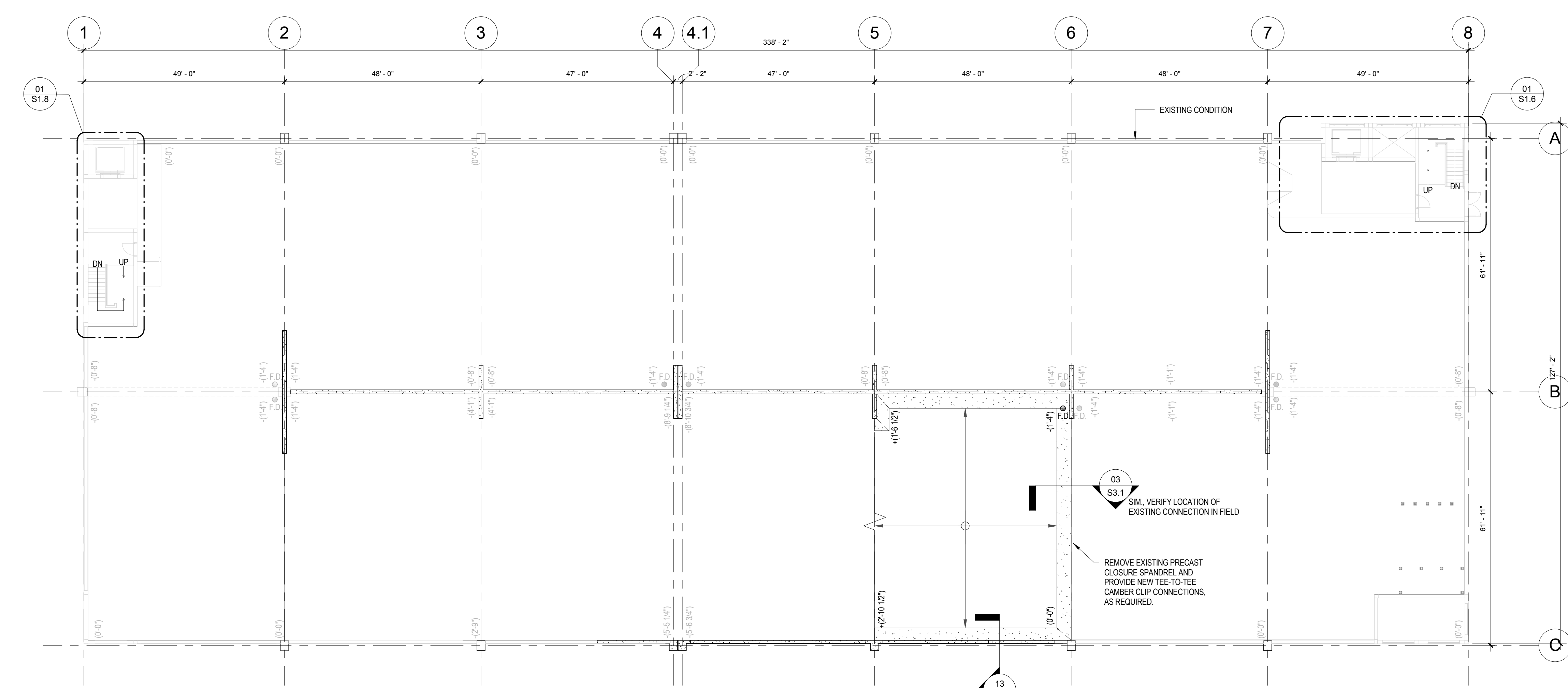
Project Title VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1		Project Number 688-345
Location 50 IRVING ST. N.W. WASHINGTON, D.C.		Building Number -
Date 02/16/15	Checked NCA	Drawn BSS
Drawing Number S1.1		Dwg. 42 of 89

As indicated

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot



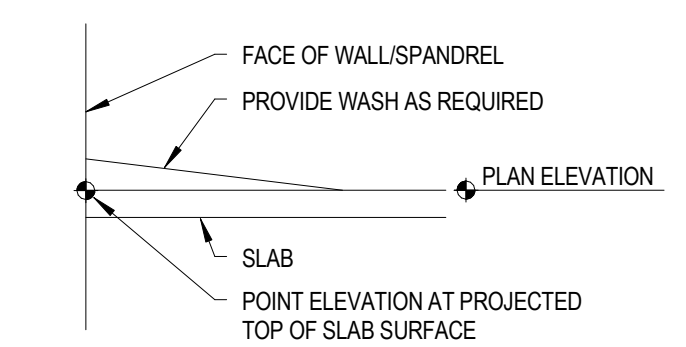
- DEDUCT ALTERNATES (ALT.)**
- DEDUCT ALT. #1 - PERFORATED METAL SCREEN WALLS**
 BASE: Perforated metal screen with accent lighting as shown on the drawings.
 DEDUCT: Delete perforated metal screen and supporting structure as shown on Drawing(s) 05A2.1 and 03A2.2, delete accent lighting as shown on Drawing(s) 01A2.4, 02A2.4, 11A2.2 and 02E1.4.
 - DEDUCT ALT. #2 - ELEVATOR LOBBY UPGRADES**
 BASE: Elevator finishes as shown on the drawings.
 DEDUCT: Delete exposed aggregate finish on concrete floor as shown in Drawing(s) 01A3.1, 01A3.2, 04A3.2 and 05A3.2 and substitute smooth trowel finish, delete suspended metal ceilings as shown on Drawing(s) A4.1 and A4.2, provide substitute light fixtures as shown on fixture schedule ED.0 and Drawing(s) A4.1 and A4.2.
 - DEDUCT ALT. #3 - SITE IMPROVEMENTS**
 BASE: All site work shown on the drawings.
 DEDUCT: Provide only the site work shown on Drawing(s) 01CS3.1 and CS3.2.
 - DEDUCT ALT. #4 - LANDSCAPE AND SITE FURNISHINGS**
 BASE: All landscape work and site furnishings shown on the drawings.
 DEDUCT: Provide only the landscape work and site furnishings shown on Drawing(s) 01LP7.0 and LP7.1.
 - DEDUCT ALT. #5 - AUTOMATIC DOOR OPENING DEVICES**
 BASE: All automatic door opening devices shown on the drawings and hardware schedule.
 DEDUCT: Provide manual door closer as specified in Spec Section(s) 08100. Delete electrical feeds shown on Drawing(s) 01E2.1, 01E2.4 and 02E2.4.
 - DEDUCT ALT. #6 - CARD READERS**
 BASE: All card readers shown on the drawings and hardware schedule.
 DEDUCT: Provide manual door lock/latches as specified in Spec Section(s) 08100. Delete electrical feeds shown on Drawing(s) 02E2.2, 01E2.4 and 02E3.2.
 - DEDUCT ALT. #7 - BARRIER CABLE SYSTEM**
 BASE: Barrier cable system as shown on the drawings.
 DEDUCT: Delete barrier cables at exterior openings as shown on Drawing(s) A2.1, A2.2 and 06A2.4.
 - DEDUCT ALT. #8 - CRASH BARRIER, BOLLARDS AND SECURITY GATES**
 BASE: All crash barriers, bollards, and security gates shown on the drawings.
 DEDUCT: Delete all crash barriers, bollards, and security gates shown on Drawing(s) 01CS3.0, 04LP7.1 and 05LP7.1.
 - DEDUCT ALT. #9 - SITE FENCING**
 BASE: All site fencing shown on the drawings.
 DEDUCT: Delete all site fencing shown on Drawing(s) 01CS3.0 and 08LP7.1.
 - DEDUCT ALT. #10 - INTERIOR GARAGE BARRIER FENCING**
 BASE: All cable type barrier fencing shown on the drawings.
 DEDUCT: Provide chain link barrier fencing shown on Drawing(s) S2.1 and 06S3.3.
 - DEDUCT ALT. #11 - SECURITY CAMERAS**
 BASE: Security cameras as shown on the drawings.
 DEDUCT: Delete security cameras and appearances (conduit, junction boxes, and power) shown on Drawing(s) E3.3, E3.4 and 02E3.5.
 - DEDUCT ALT. #12 - LED LIGHTING**
 BASE: LED lighting as shown on the drawings.
 DEDUCT: Provide substitute light fixtures as shown on fixture schedule ED.0 and as shown on Drawing(s) E1.4, E1.5 and E1.6.
 - DEDUCT ALT. #13 - SECURITY BOOTH**
 BASE: Security booth as shown on the drawings.
 DEDUCT: Delete security booth and appearances shown on Drawing(s) A4.3, 02E1.4, 03E2.2 and 01E2.3.
 - DEDUCT ALT. #14 - PARKING TIERS**
 BASE: 2-12 new tiers parking tiers as shown on the drawings.
 DEDUCT: Delete 12 tier and connecting ramp as shown on Drawing(s) 02A1.2, 02A1.6, A2.1, A2.2, 01S1.5, 02M1.3, 03FP1.3, 03E1.6, 02E2.4 and 02E3.4.

01 GROUND TIER STRUCTURAL PLAN
 1/8" = 1'-0"

BASE ELEVATION = 200'-0"

- TYPICAL TIER SHEET NOTES:**
- REFER TO SHEET S0.1 FOR GENERAL NOTES.
 - REFER TO SHEET S3.1 FOR PRECAST TEE DETAILS.
 - REFER TO SHEET S3.2 FOR COLUMN DETAILS.
 - REFER TO SHEETS S1.1 THROUGH S1.4 FOR FLOOR DRAIN LOCATIONS. COORDINATE WITH PLUMBING DRAWINGS.
 - REFER TO SHEETS S1.5-S1.8 FOR STARTOWER PLANS, SECTIONS, AND DETAILS.
 - FLOOR SLAB SYSTEM IS PRECAST DOUBLE TEES, U.N.O. DOUBLE TEE LAYOUT BY PRECASTER. WASH DOUBLE TEES AS REQUIRED TO PROVIDE A SMOOTH TRANSITION FOR ELEVATION DIFFERENCES.
 - PLAN (S) 1.3 REPRESENTS THE TYPICAL TIER PLAN, ALL SECTION CUTS, PLAN DETAILS, AND NOTES SHOWN ON IT ARE TYPICAL OF EVERY TIER U.N.O.
 - USE STRAIGHT LINE INTERPOLATION FOR FLOOR ELEVATIONS BETWEEN THOSE INDICATED.
 - SLOPE BEARING PLATES IN BEAM OR SUPPORT PLATES IN COLUMNS/WALLS TO PROVIDE UNIFORM BEARING SURFACES FOR PC MEMBERS AS REQUIRED, TYP.
 - SHADED AREAS DEPICT EXTENT OF C.I.P. TOPPING.
 - SHADED AREAS DEPICT EXTENT OF TRAFFIC DECK COATINGS. PRECASTER TO COORDINATE TEE FINISH AT SURFACES WHICH WILL RECEIVE TRAFFIC DECK COATING WITH WATERPROOFING CONTRACTOR.
 - INDICATES TOOLED JOINT WITH SEALANT. PROVIDE TOOLED JOINT WITH SEALANT ABOVE ALL TEE-TO-TEE JOINTS PER DETAILS 3/03.1. PROVIDE TRANSVERSE TOOLED JOINT WITH SEALANT OVER EACH CONNECTION ALONG FULL LENGTH OF C.I.P. WASH OR AT 6'-0" O.C.
 - INDICATES WASH LINE.
 - ALL TOPPING ON TEES AND POLYSTRIPS TO HAVE CORROSION INHIBITOR AT THE RATE OF 3 GALS./CU. YARD OF CONCRETE AND PROVIDE 1 1/2 POUNDS OF FIBROUS REINFORCING PER CU. YARD OF CONCRETE.
 - ELEVATIONS SHOWN ON STRUCTURAL PLANS ARE TOP OF THE SLAB (PC DOUBLE TEE) ELEVATIONS AT THE COLUMN CENTERLINE. U.N.O. WITH AN ELEVATION TARGET SYMBOL. (THIS DOES NOT INCLUDE THE HEIGHT OF WASH/CURB) REFER TO PLAN ELEVATION KEY FOR ADDL. INFO.
 - DEPICTS LOCATIONS WHERE COLUMNS/WALLS STOP AT FLOOR ELEVATION.
 - BASE ELEVATIONS REPRESENT THE BENCHMARK BY WHICH ACTUAL SPOT ELEVATIONS ARE CALCULATED BY ADDING/SUBTRACTING THE ELEVATIONS SHOWN AT SPECIFIC LOCATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ASSURE A MINIMUM OF 8'-4" HEADROOM CLEARANCE BETWEEN ALL DRIVING SURFACES AND OVERHEAD STRUCTURE AT THIS TIER PRIOR TO PLACING CONCRETE POURSTRIP AND TOPPING.



Revisions:	Date	
4	100% Submission	2/16/15
3	95% Submission	8/28/14
2	65% Submission	8/07/14
1	35% Submission	4/15/14

CONSULTANTS:	
ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210	PARKING CONSULTANT Tim Haas & Associates, Inc. 650 Township Line Road, Suite 100 Blue Bell, PA 19422
STRUCTURAL ENGINEER Tim Haas & Associates, Inc. 650 Township Line Road, Suite 100 Blue Bell, PA 19422	MEP ENGINEER DCS Infrastructure, Inc. 3249 Route 112, Suite 1B Medford, NY 11763
COST ESTIMATOR DMS Construction Consulting Services, Inc. 5550 Sterrett Place, Suite 300 Columbia, MD 21044	CIVIL ENGINEER KGI Technologies, Inc. 936 Rogelovick Road Sparks, MD 21152

SEAL:

ARCHITECT/ENGINEERS:
 Melville Thomas Architects, Inc.
 ARCHITECTURE & PLANNING

400 Wyndhurst Ave., Suite 315 Baltimore, MD 21210
 T. 410.433.4400 F. 410.433.4719
 www.mtarx.com

Drawing Title GROUND TIER STRUCTURAL PLAN - EXISTING & NEW WORK	Project Title VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1
Approved: Project Director	Location 50 IRVING ST. N.W. WASHINGTON, D.C.
Date 02/16/15	Checked NCA
	Drawn BSS

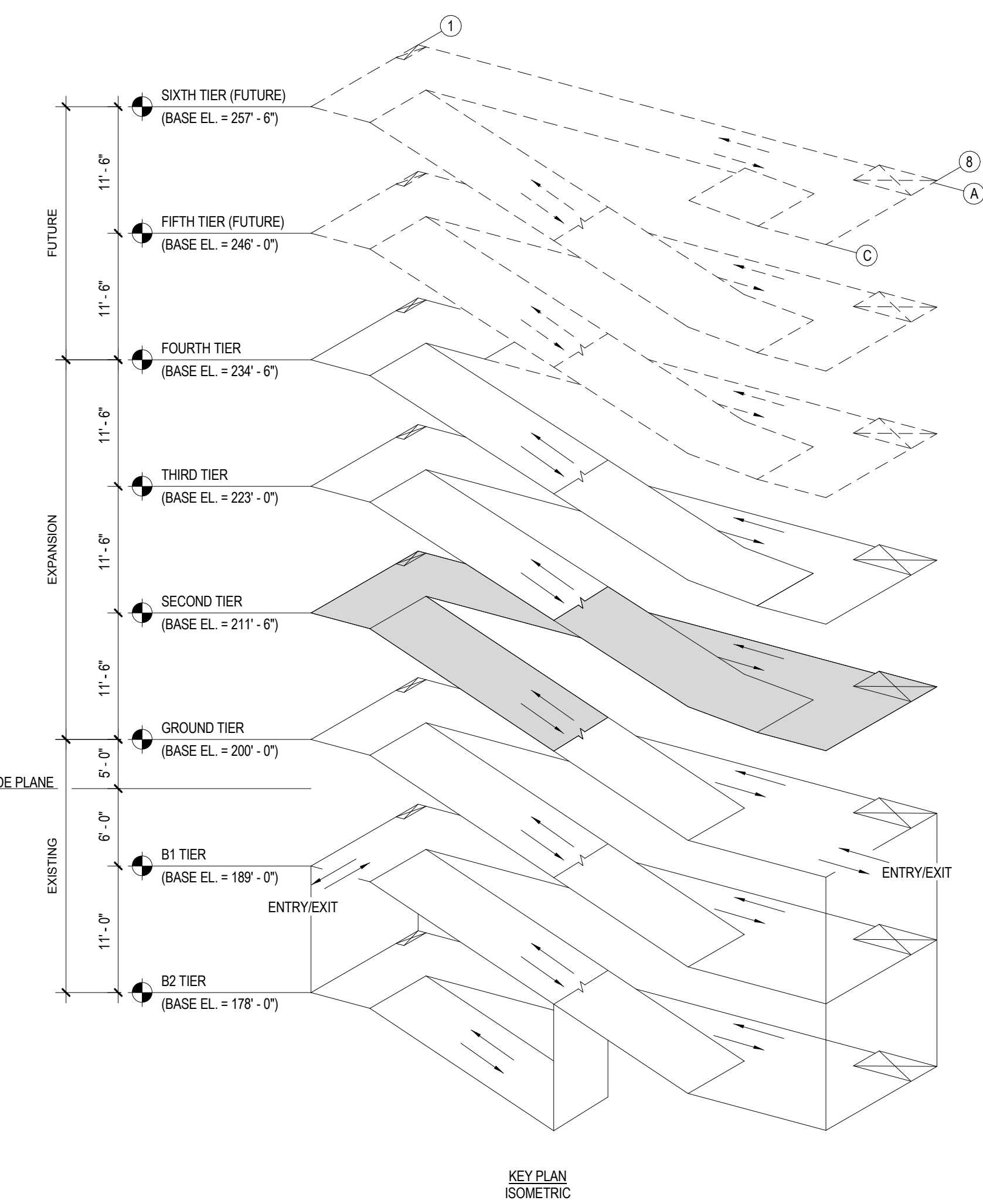
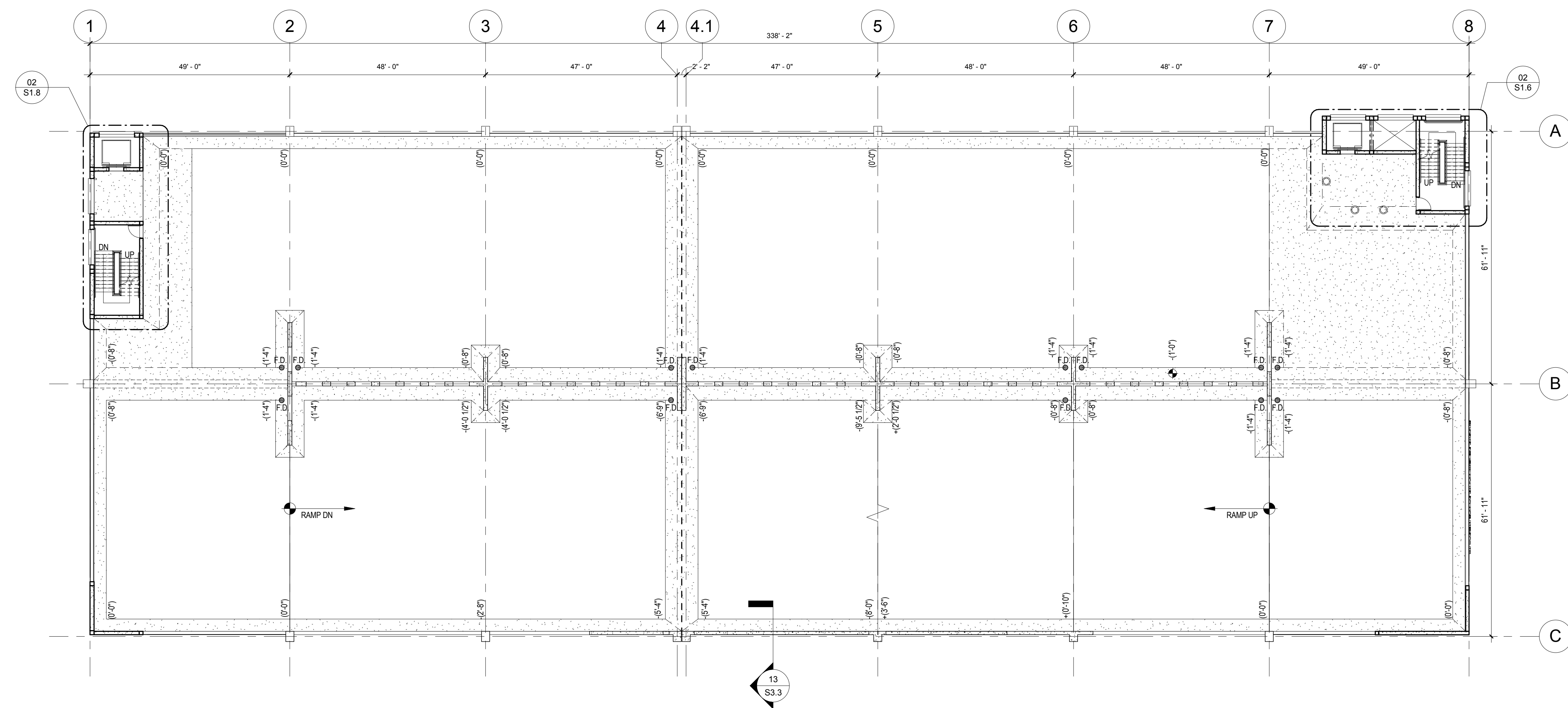
Project Number 688-345	Drawing Number S1.2
Building Number -	Dwg. 43 of 89

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

01 SECOND TIER STRUCTURAL PLAN
1/16" = 1'-0"

BASE ELEVATION = 211'-6"

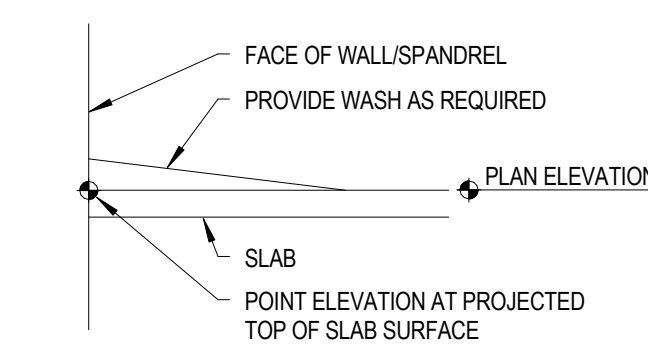


- DEDUCT ALTERNATES (ALT.)**
- DEDUCT ALT. #1 - PERFORATED METAL SCREEN WALLS**
BASE: Perforated metal screen with accent lighting as shown on the drawings.
DEDUCT: Delete perforated metal screen and supporting structure as shown on Drawing(s) 05A2.1 and 03A2.2, delete accent lighting as shown on Drawing(s) 01A2.4, 02A2.4, 11A5.2 and 02E1.4.
 - DEDUCT ALT. #2 - ELEVATOR LOBBY UPGRADES**
BASE: Elevator finishes as shown on the drawings.
DEDUCT: Delete exposed aggregate finish on concrete floor as shown in Drawing(s) U1A3.1, U1A3.2, 04A5.3 and 05A5.2 and substitute smooth trowel finish, delete suspended metal ceilings as shown on Drawing(s) A4.1 and A4.2, provide substitute light fixtures as shown on future schedule E3.3 and Drawing(s) A4.1 and A4.2.
 - DEDUCT ALT. #3 - SITE IMPROVEMENTS**
BASE: All site work shown on the drawings.
DEDUCT: Provide only the site work shown on Drawing(s) 01CS3.1 and CS3.2.
 - DEDUCT ALT. #4 - LANDSCAPE AND SITE FURNISHINGS**
BASE: All landscape work and site furnishings shown on the drawings.
DEDUCT: Provide only the landscape work and site furnishings shown on Drawing(s) 01LP7.0 and LP7.1.
 - DEDUCT ALT. #5 - AUTOMATIC DOOR OPENING DEVICES**
BASE: All automatic door opening devices shown on the drawings and hardware schedule.
DEDUCT: Provide manual door closer as specified in Spec Section(s) 087100. Delete electrical feeds shown on Drawing(s) 01E2.1, 01E2.4 and 02E2.4.
 - DEDUCT ALT. #6 - CARD READERS**
BASE: All card readers shown on the drawings and hardware schedule.
DEDUCT: Provide manual door locks/latches as specified in Spec Section(s) 087100. Delete electrical feeds shown on Drawing(s) 02E2.2, 01E2.4 and 02E2.2.
 - DEDUCT ALT. #7 - BARRIER CABLE SYSTEM**
BASE: Barrier cable system as shown on the drawings.
DEDUCT: Delete barrier cables at exterior openings as shown on Drawing(s) A2.1, A2.2 and 06A2.4.
 - DEDUCT ALT. #8 - CRASH BARRIER, BOLLARDS AND SECURITY GATES**
BASE: All crash barriers, bollards, and security gates shown on the drawings.
DEDUCT: Delete all crash barriers, bollards, and security gates shown on Drawing(s) 01CS3.0, 04LP7.1 and 05LP7.1.
 - DEDUCT ALT. #9 - SITE FENCING**
BASE: All site fencing shown on the drawings.
DEDUCT: Delete all site fencing shown on Drawing(s) 01CS3.0 and 06LP7.1.
 - DEDUCT ALT. #10 - INTERIOR GARAGE BARRIER FENCING**
BASE: All cable type barrier fencing shown on the drawings.
DEDUCT: Provide chain link barrier fencing shown on Drawing(s) S2.1 and 06S3.3.
 - DEDUCT ALT. #11 - SECURITY CAMERAS**
BASE: Security cameras as shown on the drawings.
DEDUCT: Delete security cameras and accessories (conduit, junction boxes, and power) shown on Drawing(s) E3.3, E3.4 and 02E3.5.
 - DEDUCT ALT. #12 - LED LIGHTING**
BASE: LED lighting as shown on the drawings.
DEDUCT: Provide substitute light fixtures as shown on future schedule E0.0 and as shown on Drawing(s) E1.4, E1.5 and E1.6.
 - DEDUCT ALT. #13 - SECURITY BOOTH**
BASE: Security booth as shown on the drawings.
DEDUCT: Delete security booth and accessories shown on Drawing(s) A4.3, 02E1.4, 02E2.2 and 02E1.4.
 - DEDUCT ALT. #14 - PARKING TIERS**
BASE: 2-1/2 new tiers parking tiers as shown on the drawings.
DEDUCT: Delete 1/2 tier and connecting ramp as shown on Drawing(s) 02A1.2, 02A1.6, A2.1, A2.2, 01S1.5, 02M1.3, 02P1.3, 03FP1.3, 02E1.6, 02E2.4 and 02E3.4.

TYPICAL TIER SHEET NOTES:

- REFER TO SHEET S0.1 FOR GENERAL NOTES.
- REFER TO SHEET S3.1 FOR PRECAST TEE DETAILS.
- REFER TO SHEET S3.2 FOR COLUMN DETAILS.
- REFER TO SHEETS S1.1 THROUGH S1.4 FOR FLOOR DRAIN LOCATIONS, COORDINATE WITH PLUMBING DRAWINGS.
- REFER TO SHEETS S1.5-S1.8 FOR STARTOWER PLANS, SECTIONS, AND DETAILS.
- FLOOR SLAB SYSTEM IS PRECAST DOUBLE TEES, U.N.O. DOUBLE TEE LAYOUT BY PRECASTER. WARD DOUBLE TEES AS REQUIRED TO PROVIDE A SMOOTH TRANSITION FOR ELEVATION DIFFERENCES.
- PLAN 151.3 REPRESENTS THE TYPICAL TIER PLAN. ALL SECTION CUTS, PLAN DETAILS, AND NOTES SHOWN ON IT ARE TYPICAL OF EVERY TIER U.N.O.
- USE STRAIGHT LINE INTERPOLATION FOR FLOOR ELEVATIONS BETWEEN THOSE INDICATED.
- SLOPE BEARING PLATES IN BEAM OR SUPPORT PLATES IN COLUMNS/WALLS TO PROVIDE UNIFORM BEARING SURFACES FOR PCI MEMBERS AS REQUIRED, TYP.
- SHADED AREAS DEPICT EXTENT OF C.I.P. TOPPING.
- SHADED AREAS DEPICT EXTENT OF TRAFFIC DECK COATING. PRECASTER TO COORDINATE TEE FINISH AT SURFACES WHICH WILL RECEIVE TRAFFIC DECK COATING WITH WATERPROOFING CONTRACTOR.
- INDICATES TOOLED JOINT WITH SEALANT. PROVIDE TOOLED JOINT WITH SEALANT ABOVE ALL TEE-TO-TEE JOINTS PER DETAILS S3S.1. PROVIDE TRANSVERSE TOOLED JOINT WITH SEALANT OVER EACH CONNECTION ALONG FULL LENGTH OF C.I.P. WASH OR AT 6'-0" O.C.
- INDICATES WASH LINE.
- ALL TOPPING ON TEES AND POLURSTRIPS TO HAVE CORROSION INHIBITOR AT THE RATE OF 3 GALS./CU. YARD OF CONCRETE AND PROVIDE 1 1/2 POUNDS OF FIBROUS REINFORCING PER CU. YARD OF CONCRETE.
- ELEVATIONS SHOWN ON STRUCTURAL PLANS ARE TOP OF THE SLAB (PC DOUBLE TEE) ELEVATIONS AT THE COLUMN CENTERLINE, U.N.O. WITH AN ELEVATION TARGET SYMBOL, (THIS DOES NOT INCLUDE THE HEIGHT OF WASHBOURBS) REFER TO PLAN ELEVATION KEY FOR ADDL. INFO.
- DEPICTS LOCATIONS WHERE COLUMNS/WALLS STOP AT FLOOR ELEVATION.
- BASE ELEVATIONS REPRESENT THE BENCHMARK BY WHICH ACTUAL SPOT ELEVATIONS ARE CALCULATED BY ADJUSTING/SUBTRACTING THE ELEVATIONS SHOWN AT SPECIFIC LOCATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ASSURE A MINIMUM OF 8'-4" HEADROOM CLEARANCE BETWEEN ALL DRIVING SURFACES AND OVERHEAD STRUCTURE AT THIS TIER PRIOR TO PLACING CONCRETE POURSTRIP AND TOPPING.



Revisions:	Date	
4	100% Submission	2/16/15
3	95% Submission	8/28/14
2	65% Submission	8/07/14
1	35% Submission	4/15/14

CONSULTANTS:	
ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210	PARKING CONSULTANT Tim Haahs & Associates, Inc. 650 Township Line Road, Suite 100 Blue Bell, PA 19422
STRUCTURAL ENGINEER Tim Haahs & Associates, Inc. 650 Township Line Road, Suite 100 Blue Bell, PA 19422	MEP ENGINEER DCS Infrastructure, Inc. 3249 Route 112, Suite 1B Medford, NY 11763
COST ESTIMATOR DMS Construction Consulting Services, Inc. 5500 Sterrett Place, Suite 300 Columbia, MD 21044	CIVIL ENGINEER KCI Technologies, Inc. 936 Rogojenski Road Sparks, MD 21152

SEAL:

ARCHITECT/ENGINEERS:

Melville Thomas Architects, Inc.
ARCHITECTURE & PLANNING

400 Wyndhurst Ave., Suite 315 Baltimore, MD 21210
T. 410.433.4400 F. 410.433.4719
www.mtarx.com

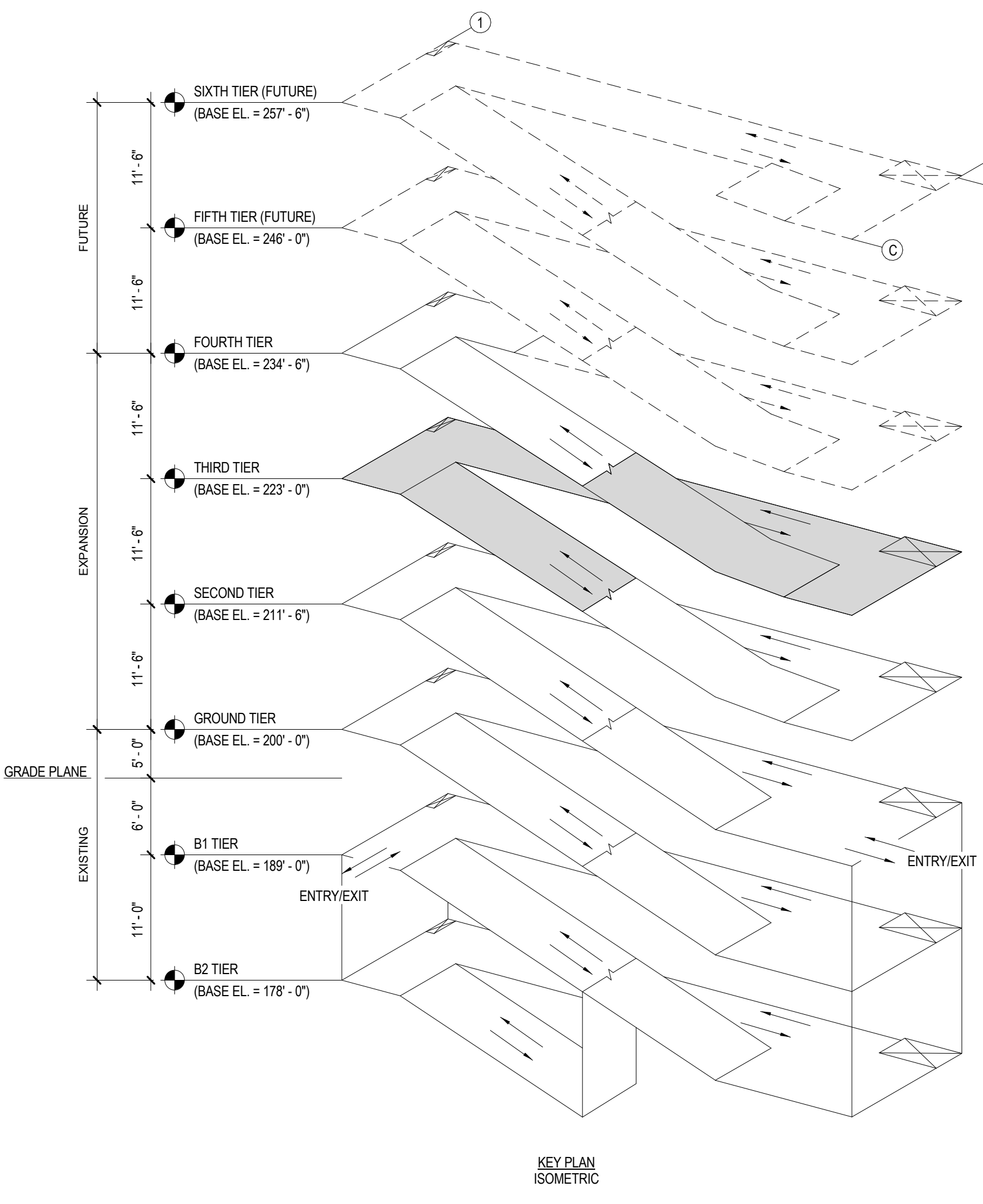
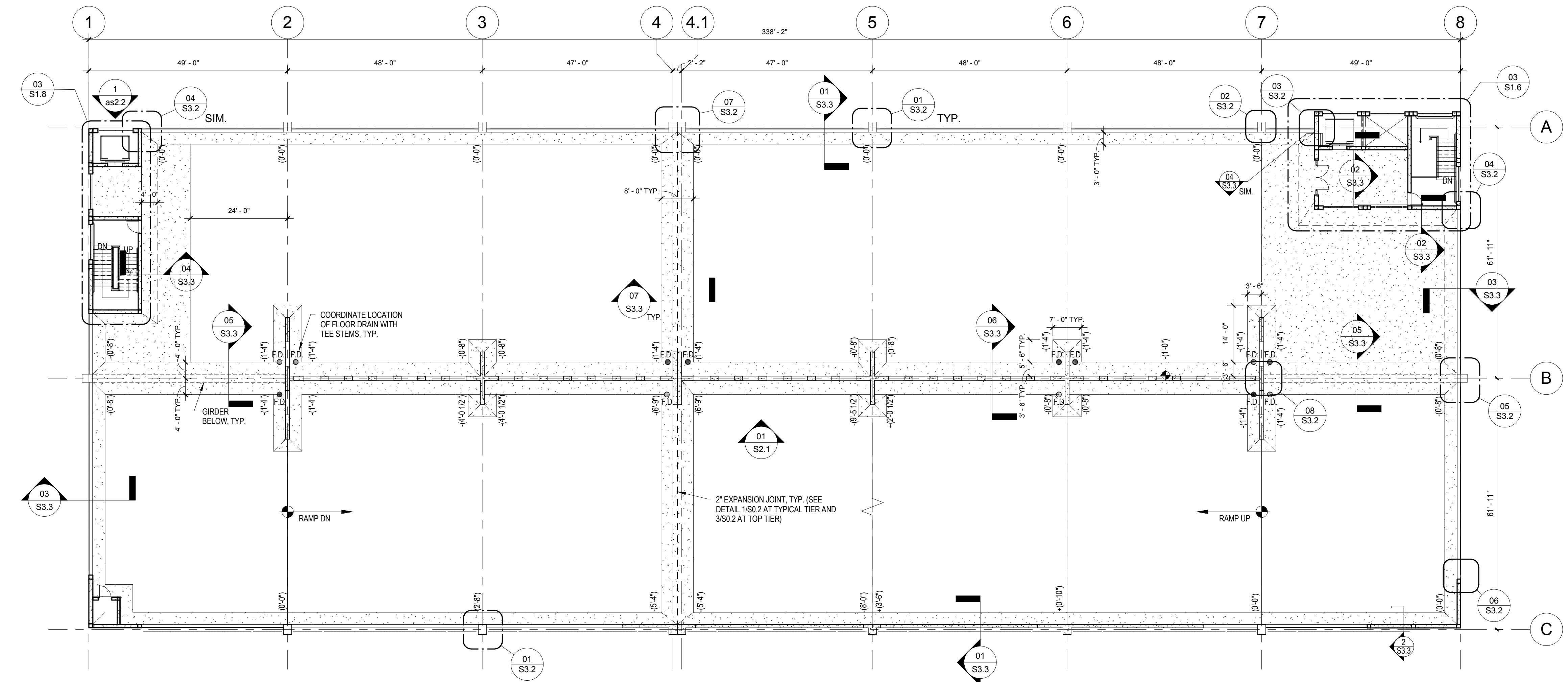
Drawing Title SECOND TIER STRUCTURAL PLAN - NEW WORK	Project Title VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1
Approved: Project Director	Location 50 IRVING ST. N.W. WASHINGTON, D.C.
Date 02/16/15	Checked NCA
	Drawn BSS

Project Number 688-345	Drawing Number S1.3
Building Number	
Drawing Number S1.3	Dwg. 44 of 89

As indicated

Office of Construction and Facilities Management

Department of Veterans Affairs



- DEDUCT ALTERNATES (ALT.)**
- DEDUCT ALT. #1 - PERFORATED METAL SCREEN WALLS**
 BASE: Perforated metal screen with accent lighting as shown on the drawings.
 DEDUCT: Delete perforated metal screen and supporting structure as shown on Drawing(s) 05A2.1 and 03A2.2, delete accent lighting as shown on Drawing(s) 01A2.4, 02A2.4, 11A2.2 and 02E1.4
- DEDUCT ALT. #2 - ELEVATOR LOBBY UPGRADES**
 BASE: Elevator finishes as shown on the drawings.
 DEDUCT: Delete exposed aggregate finish on concrete floor as shown in Drawing(s) 01A3.1, 01A3.2, 04A3.2 and 05A3.2 and substitute smooth trowel finish, delete suspended metal ceilings as shown on Drawing(s) A4.1 and A4.2, provide substitute light fixtures as shown on future schedule E0.0 and Drawing(s) A4.1 and A4.2.
- DEDUCT ALT. #3 - SITE IMPROVEMENTS**
 BASE: All site work shown on the drawings.
 DEDUCT: Provide only the site work shown on Drawing(s) 01CS3.1 and CS3.2.
- DEDUCT ALT. #4 - LANDSCAPE AND SITE FURNISHINGS**
 BASE: All landscape work and site furnishings shown on the drawings.
 DEDUCT: Provide only the landscape work and site furnishings shown on Drawing(s) 01LP7.0 and LP7.1.
- DEDUCT ALT. #5 - AUTOMATIC DOOR OPENING DEVICES**
 BASE: All automatic door opening devices shown on the drawings and hardware schedule.
 DEDUCT: Provide manual door closer as specified in Spec Section(s) 08710. Delete electrical feeds shown on Drawing(s) 01E2.1, 01E2.4 and 02E2.4.
- DEDUCT ALT. #6 - CARD READERS**
 BASE: All card readers shown on the drawings and hardware schedule.
 DEDUCT: Provide manual door lock/cylinders as specified in Spec Section(s) 08710. Delete electrical feeds shown on Drawing(s) 02E2.2, 01E2.4 and 02E3.2.
- DEDUCT ALT. #7 - BARRIER CABLE SYSTEM**
 BASE: Barrier cable system as shown on the drawings.
 DEDUCT: Delete barrier cables at exterior openings as shown on Drawing(s) A2.1, A2.2 and 06A2.4.
- DEDUCT ALT. #8 - CRASH BARRIER, BOLLARDS AND SECURITY GATES**
 BASE: All crash barriers, bollards, and security gates shown on the drawings.
 DEDUCT: Delete all crash barriers, bollards, and security gates shown on Drawing(s) 01CS3.0, 04LP7.1 and 05LP7.1.
- DEDUCT ALT. #9 - SITE FENCING**
 BASE: All site fencing shown on the drawings.
 DEDUCT: Delete all site fencing shown on Drawing(s) 01CS3.0 and 03LP7.1.
- DEDUCT ALT. #10 - INTERIOR GARAGE BARRIER FENCING**
 BASE: All cable type barrier fencing shown on the drawings.
 DEDUCT: Provide chain link barrier fencing shown on Drawing(s) S2.1 and 06S3.3.
- DEDUCT ALT. #11 - SECURITY CAMERAS**
 BASE: Security cameras as shown on the drawings.
 DEDUCT: Delete security cameras and appurtenances (conduit, junction boxes, and power) shown on Drawing(s) E3.3, E3.4 and 02E3.5.
- DEDUCT ALT. #12 - LED LIGHTING**
 BASE: LED lighting as shown on the drawings.
 DEDUCT: Provide substitute light fixtures as shown on future schedule E0.0 and as shown on Drawing(s) E1.4, E1.5 and E1.6.
- DEDUCT ALT. #13 - SECURITY BOOTH**
 BASE: Security booth as shown on the drawings.
 DEDUCT: Delete security booth and appurtenances shown on Drawing(s) A4.3, 02E1.4, 03E2.2 and 01E2.3.
- DEDUCT ALT. #14 - PARKING TIERS**
 BASE: 2-1/2 new tiers parking tiers as shown on the drawings.
 DEDUCT: Delete 1/2 tier and connecting ramp as shown on Drawing(s) 02A1.2, 02A1.6, A2.1, A2.2, 01S1.5, 02M1.3, 02P1.3, 03FP1.3, 02E1.6, 02E2.4 and 02E3.4.

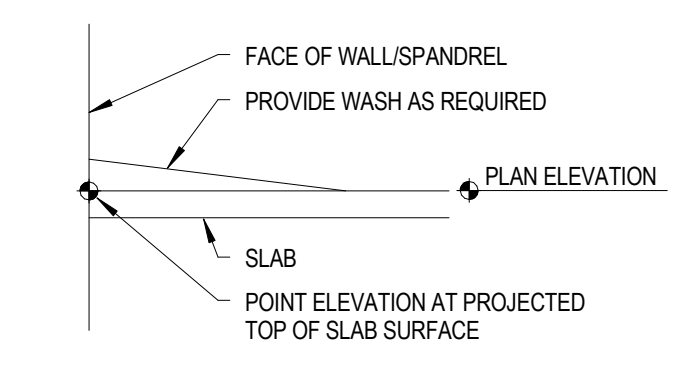
01 THIRD TIER STRUCTURAL PLAN
 1/16" = 1'-0"

BASE ELEVATION = 223'-0"

TYPICAL TIER SHEET NOTES:

- REFER TO SHEET S0.1 FOR GENERAL NOTES.
- REFER TO SHEET S3.1 FOR PRECAST TEE DETAILS.
- REFER TO SHEET S3.2 FOR COLUMN DETAILS.
- REFER TO SHEETS S1.1 THROUGH S1.4 FOR FLOOR DRAIN LOCATIONS, COORDINATE WITH PLUMBING DRAWINGS.
- REFER TO SHEETS S1.5-S1.8 FOR STARTOWER PLANS, SECTIONS, AND DETAILS.
- FLOOR SLAB SYSTEM IS PRECAST DOUBLE TEES, U.N.O. DOUBLE TEE LAYOUT BY PRECASTER. WARD DOUBLE TEES AS REQUIRED TO PROVIDE A SMOOTH TRANSITION FOR ELEVATION DIFFERENCES.
- PLAN S1.3 REPRESENTS THE TYPICAL TIER PLAN. ALL SECTION CUTS, PLAN DETAILS, AND NOTES SHOWN ON IT ARE TYPICAL OF EVERY TIER U.N.O.
- USE STRAIGHT LINE INTERPOLATION FOR FLOOR ELEVATIONS BETWEEN THOSE INDICATED.
- SLOPE BEARING PLATES IN BEAM OR SUPPORT PLATES IN COLUMNS/WALLS TO PROVIDE UNIFORM BEARING SURFACES FOR P.C. MEMBERS AS REQUIRED, TYP.
- SHADED AREAS DEPICT EXTENT OF C.I.P. TOPPING.
- SHADED AREAS DEPICT EXTENT OF TRAFFIC DECK COATING. PRECASTER TO COORDINATE TEE FINISH AT SURFACES WHICH WILL RECEIVE TRAFFIC DECK COATING WITH WATERPROOFING CONTRACTOR.
- INDICATES TOOLED JOINT WITH SEALANT. PROVIDE TOOLED JOINT WITH SEALANT ABOVE ALL TEE-TO-TEE JOINTS PER DETAILS S03.1. PROVIDE TRANSVERSE TOOLED JOINT WITH SEALANT OVER EACH CONNECTION ALONG FULL LENGTH OF C.I.P. WASH OR AT 6'-0" O.C.
- INDICATES WASH LINE.
- ALL TOPPING ON TEES AND POLYSTRIPS TO HAVE CORROSION INHIBITOR AT THE RATE OF 3 GALS./CU. YARD OF CONCRETE AND PROVIDE 1 1/2 POUNDS OF FIBROUS REINFORCING PER CU. YARD OF CONCRETE.
- ELEVATIONS SHOWN ON STRUCTURAL PLANS ARE TOP OF THE SLAB (P.C. DOUBLE TEE) ELEVATIONS AT THE COLUMN CENTERLINE, U.N.O. WITH AN ELEVATION TARGET SYMBOL, (THIS DOES NOT INCLUDE THE HEIGHT OF WASH/CURB), REFER TO PLAN ELEVATION KEY FOR ADDL. INFO).
- DEPICTS LOCATIONS WHERE COLUMNS/WALLS STOP AT FLOOR ELEVATION.
- BASE ELEVATIONS REPRESENT THE BENCHMARK BY WHICH ACTUAL SPOT ELEVATIONS ARE CALCULATED BY ADDING/SUBTRACTING THE ELEVATIONS SHOWN AT SPECIFIC LOCATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ASSURE A MINIMUM OF 6'-4" HEADROOM CLEARANCE BETWEEN ALL DRIVING SURFACES AND OVERHEAD STRUCTURE AT THIS TIER PRIOR TO PLACING CONCRETE POURSTRIP AND TOPPING.



Revisions:	Date	
4	100% Submission	2/16/15
3	95% Submission	8/28/14
2	65% Submission	8/07/14
1	35% Submission	4/15/14

CONSULTANTS:	
ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210	PARKING CONSULTANT Tim Haas & Associates, Inc. 650 Township Line Road, Suite 100 Columbia, MD 21042
STRUCTURAL ENGINEER Tim Haas & Associates, Inc. 650 Township Line Road, Suite 100 Blue Bell, PA 19422	MEP ENGINEER DCS Infrastructure, Inc. 3249 Route 112, Suite 1B Medford, NY 11763
COST ESTIMATOR DMS Construction Consulting Services, Inc. 5550 Sterrett Place, Suite 300 Columbia, MD 21044	CIVIL ENGINEER KCI Technologies, Inc. DCS Infrastructure, Inc. 3249 Route 112, Suite 1B Sparks, MD 21152

SEAL:

ARCHITECT/ENGINEERS:

Melville Thomas Architects, Inc.
 ARCHITECTURE & PLANNING

400 Wyndhurst Ave., Suite 315 Baltimore, MD 21210
 T. 410.433.4400 F. 410.433.4719
 www.mtarx.com

Drawing Title THIRD TIER STRUCTURAL PLAN - NEW WORK	Project Title VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1
Approved: Project Director	Project Number 688-345
	Building Number -
	Drawing Number S1.4
Date 02/16/15	Checked NCA
	Drawn BSS
	Dwg. 45 of 89

Location 50 IRVING ST. N.W. WASHINGTON, D.C.	Drawing Number S1.4
Date 02/16/15	Checked NCA
	Drawn BSS
	Dwg. 45 of 89

As indicated

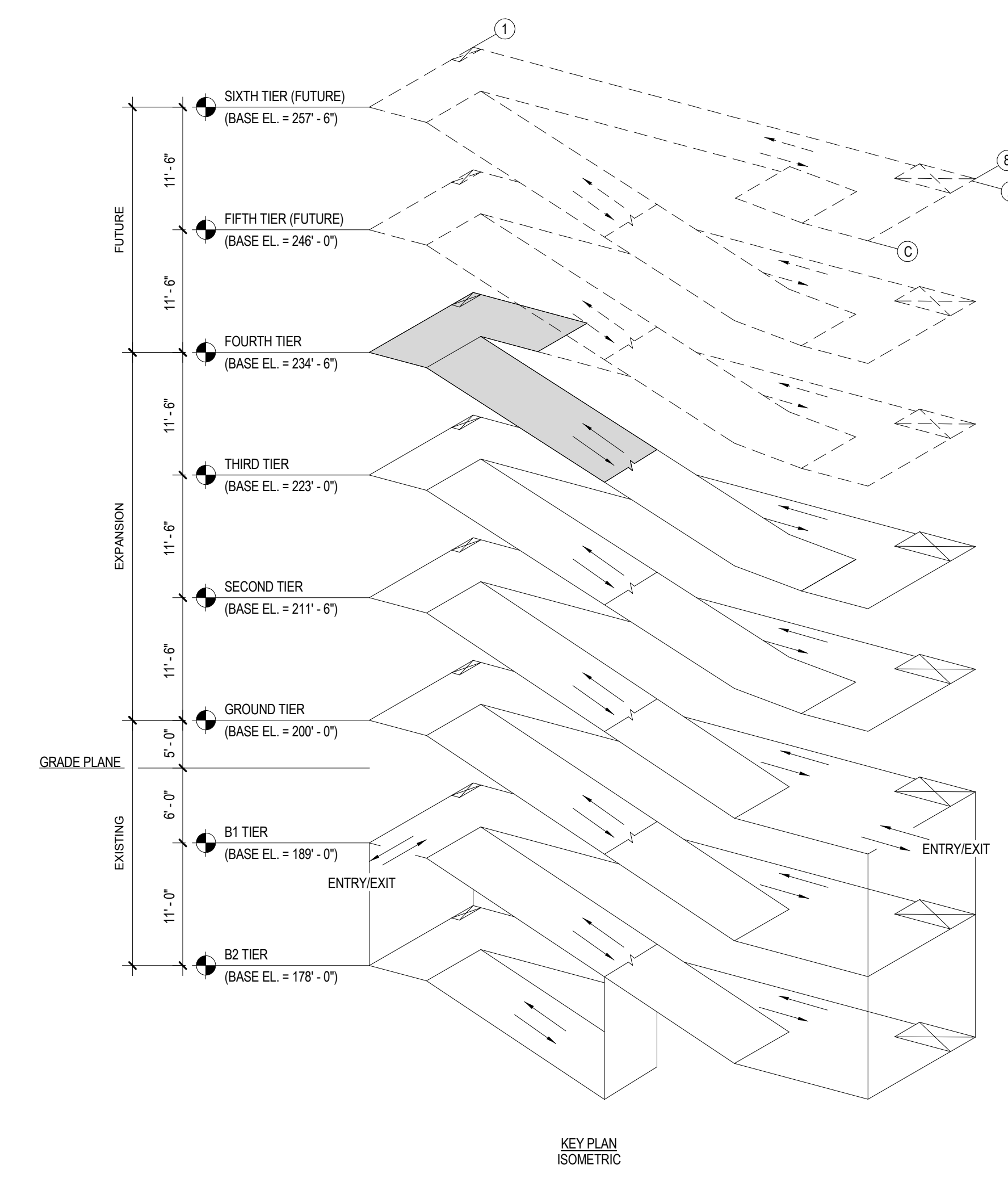
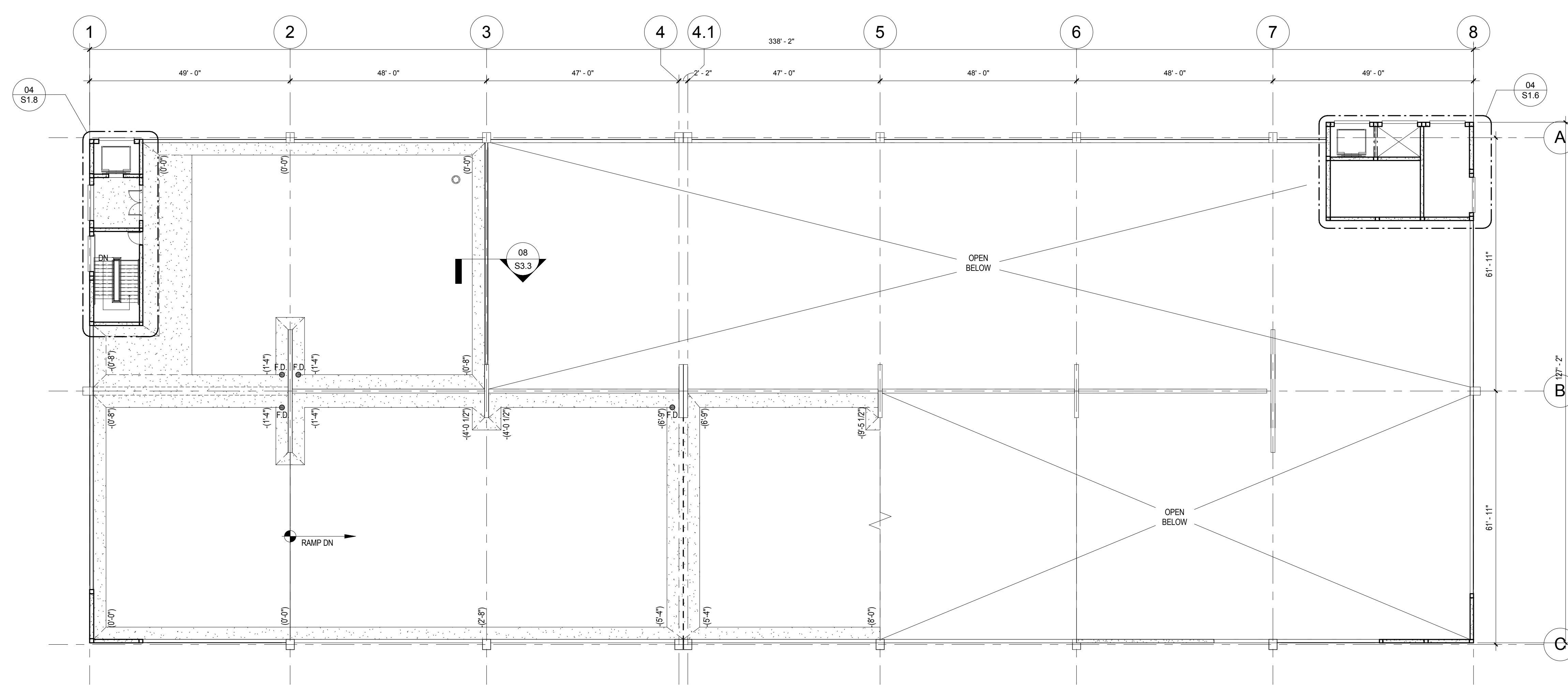
Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

01 FOURTH TIER STRUCTURAL PLAN

1/16" = 1'-0"

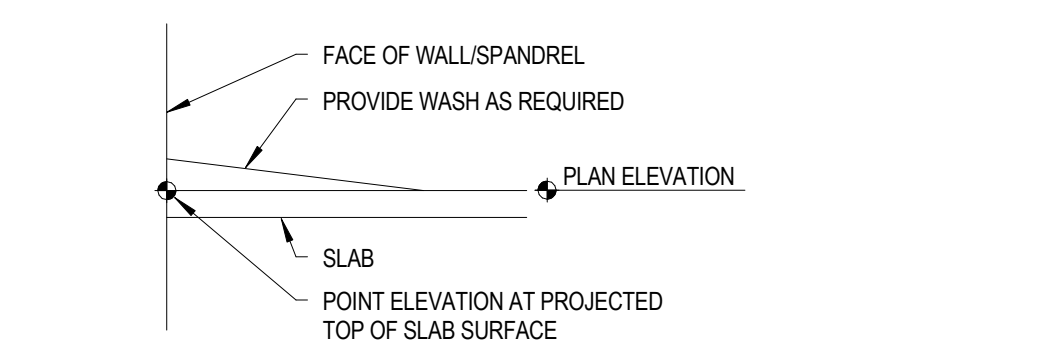
BASE ELEVATION = 234'-6"



- DEDUCT ALTERNATES (ALT.)**
- DEDUCT ALT. #1 - PERFORATED METAL SCREEN WALLS**
BASE: Perforated metal screen with accent lighting as shown on the drawings.
DEDUCT: Delete perforated metal screen and supporting structure as shown on Drawings(0)0A2.1 and 03A2.2, delete accent lighting as shown on Drawings(0)01A2.4, 02A2.4, 11A2.2 and 02E1.4
 - DEDUCT ALT. #2 - ELEVATOR LOBBY UPGRADES**
BASE: Elevator finishes as shown on the drawings.
DEDUCT: Delete exposed aggregate finish on concrete floor as shown in Drawing(s) 01A3.1, 01A3.2, 04A2.2 and 05A2.2 and substitute smooth trowel finish, delete suspended metal ceilings as shown on Drawing(s) A4.1 and A4.2, provide substitute light fixtures as shown on future schedule E0.0 and Drawing(s) A4.1 and A4.2.
 - DEDUCT ALT. #3 - SITE IMPROVEMENTS**
BASE: All site work shown on the drawings.
DEDUCT: Provide only the site work shown on Drawing(s) 01CS3.1 and CS3.2.
 - DEDUCT ALT. #4 - LANDSCAPE AND SITE FURNISHINGS**
BASE: All landscape work and site furnishings shown on the drawings.
DEDUCT: Provide only the landscape work and site furnishings shown on Drawing(s) 01LP7.0 and LP7.1.
 - DEDUCT ALT. #5 - AUTOMATIC DOOR OPENING DEVICES**
BASE: All automatic door opening devices shown on the drawings and hardware schedule.
DEDUCT: Provide manual door closer as specified in Spec Section(s) 08710. Delete electrical feeds shown on Drawing(s) 01E2.1, 01E2.4 and 02E2.4.
 - DEDUCT ALT. #6 - CARD READERS**
BASE: All card readers shown on the drawings and hardware schedule.
DEDUCT: Provide manual door lock/cylinders as specified in Spec Section(s) 08710. Delete electrical feeds shown on Drawing(s) 02E2.2, 01E2.4 and 02E3.2.
 - DEDUCT ALT. #7 - BARRIER CABLE SYSTEM**
BASE: Barrier cable system as shown on the drawings.
DEDUCT: Delete barrier cables at select openings as shown on Drawing(s) A2.1, A2.2 and 06A2.4.
 - DEDUCT ALT. #8 - CRASH BARRIER, BOLLARDS AND SECURITY GATES**
BASE: All crash barriers, bollards, and security gates shown on the drawings.
DEDUCT: Delete all crash barriers, bollards, and security gates shown on Drawing(s) 01CS3.0, 04LP7.1 and 05LP7.1.
 - DEDUCT ALT. #9 - SITE FENCING**
BASE: All site fencing shown on the drawings.
DEDUCT: Delete all site fencing shown on Drawing(s) 01CS3.0 and 06LP7.1.
 - DEDUCT ALT. #10 - INTERIOR GARAGE BARRIER FENCING**
BASE: All cable type barrier fencing shown on the drawings.
DEDUCT: Provide chain link barrier fencing shown on Drawing(s) S1.1 and 06S1.3.
 - DEDUCT ALT. #11 - SECURITY CAMERAS**
BASE: Security cameras as shown on the drawings.
DEDUCT: Delete security cameras and appearances (conduit, junction boxes, and power) shown on Drawing(s) E3.3, E3.4 and 02E3.5.
 - DEDUCT ALT. #12 - LED LIGHTING**
BASE: LED lighting as shown on the drawings.
DEDUCT: Provide substitute light fixtures as shown on future schedule E0.0 and as shown on Drawing(s) E1.4, E1.5 and E1.6.
 - DEDUCT ALT. #13 - SECURITY BOOTH**
BASE: Security booth as shown on the drawings.
DEDUCT: Delete security booth and appearances shown on Drawing(s) A4.3, 02E1.4, 03E2.2 and 01E2.3.
 - DEDUCT ALT. #14 - PARKING TIERS**
BASE: 2-12 new tiers parking tiers as shown on the drawings.
DEDUCT: Delete 1/2 tier and connecting ramp as shown on Drawing(s) 02A1.2, 02A1.6, A2.1, A2.2, 01S1.5, 02M1.3, 02P1.3, 03FP1.3, 02E1.6, 02E2.4 and 02E3.4.

- TYPICAL TIER SHEET NOTES:**
- REFER TO SHEET S0.1 FOR GENERAL NOTES.
 - REFER TO SHEET S3.1 FOR PRECAST TEE DETAILS.
 - REFER TO SHEET S3.2 FOR COLUMN DETAILS.
 - REFER TO SHEETS S1.1 THROUGH S1.4 FOR FLOOR DRAIN LOCATIONS, COORDINATE WITH PLUMBING DRAWINGS.
 - REFER TO SHEETS S1.5-S1.8 FOR STARTOWER PLANS, SECTIONS, AND DETAILS.
 - FLOOR SLAB SYSTEM IS PRECAST DOUBLE TEES, U.N.O. DOUBLE TEE LAYOUT BY PRECASTER. WARD DOUBLE TEES AS REQUIRED TO PROVIDE A SMOOTH TRANSITION FOR ELEVATION DIFFERENCES.
 - PLAN 1S1.3 REPRESENTS THE TYPICAL TIER PLAN. ALL SECTION CUTS, PLAN DETAILS, AND NOTES SHOWN ON IT ARE TYPICAL OF EVERY TIER U.N.O.
 - USE STRAIGHT LINE INTERPOLATION FOR FLOOR ELEVATIONS BETWEEN THOSE INDICATED.
 - SLOPE BEARING PLATES IN BEAM OR SUPPORT PLATES IN COLUMNS/WALLS TO PROVIDE UNIFORM BEARING SURFACES FOR P.C. MEMBERS AS REQUIRED, TYP.
 - SHADED AREAS DEPICT EXTENT OF C.I.P. TOPPING.
 - SHADED AREAS DEPICT EXTENT OF TRAFFIC DECK COATING. PRECASTER TO COORDINATE TEE FINISH AT SURFACES WHICH WILL RECEIVE TRAFFIC DECK COATING WITH WATERPROOFING CONTRACTOR.
 - INDICATES TOOLED JOINT WITH SEALANT. PROVIDE TOOLED JOINT WITH SEALANT ABOVE ALL TEE-TO-TEE JOINTS PER DETAILS 303.1. PROVIDE TRANSVERSE TOOLED JOINT WITH SEALANT OVER EACH CONNECTION ALONG FULL LENGTH OF C.I.P. WASH OR AT 6'-0" O.C.
 - INDICATES WASH LINE.
 - ALL TOPPING ON TEES AND POLURSTRIPS TO HAVE CORROSION INHIBITOR AT THE RATE OF 3 GALS./CU. YARD OF CONCRETE AND PROVIDE 1 1/2 POUNDS OF FIBROUS REINFORCING PER CU. YARD OF CONCRETE.
 - ELEVATIONS SHOWN ON STRUCTURAL PLANS ARE TOP OF THE SLAB (P.C. DOUBLE TEE) ELEVATIONS AT THE COLUMN CENTERLINE, U.N.O. WITH AN ELEVATION TARGET SYMBOL, (THIS DOES NOT INCLUDE THE HEIGHT OF WASHBOURBS) REFER TO PLAN ELEVATION KEY FOR ADDL. INFO).
 - DEPICTS LOCATIONS WHERE COLUMNS/WALLS STOP AT FLOOR ELEVATION.
 - BASE ELEVATIONS REPRESENT THE BENCHMARK BY WHICH ACTUAL SPOT ELEVATIONS ARE CALCULATED BY ADDING/SUBTRACTING THE ELEVATIONS SHOWN AT SPECIFIC LOCATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ASSURE A MINIMUM OF 8'-4" HEADROOM CLEARANCE BETWEEN ALL DRIVING SURFACES AND OVERHEAD STRUCTURE AT THIS TIER PRIOR TO PLACING CONCRETE POURSTRIP AND TOPPING.



CONSULTANTS: ARCHITECT Melville Thomas Architects, Inc. 600 Wynnburg Avenue, Suite 315 Baltimore, MD 21210 STRUCTURAL ENGINEER Tim Haahs & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422		PARKING CONSULTANT Tim Haahs & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422 MEP ENGINEER Tim Haahs & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422		COST ESTIMATOR DMS Construction Consulting Services, Inc. 550 Sterrett Place, Suite 300 Columbia, MD 21044 CIVIL ENGINEER KCI Technologies, Inc. DCIS Infrastructure, Inc. 3249 Route 112, Suite 1B Medford, NY 11763		SEAL:		ARCHITECT/ENGINEERS: Melville Thomas Architects, Inc. ARCHITECTURE & PLANNING 400 Wynnburg Ave., Suite 315 Baltimore, MD 21210 T. 410.423.4400 F. 410.423.4719 www.mtarx.com		Drawing Title FOURTH TIER STRUCTURAL PLAN - NEW WORK Approved: Project Director		Project Title VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1 Location 50 IRVING ST. N.W. WASHINGTON, D.C. Date 02/16/15		Project Number 688-345 Building Number - Drawing Number S1.5 Dwg. 46 of 89		As indicated Office of Construction and Facilities Management 	
--	--	--	--	---	--	--------------	--	--	--	--	--	--	--	---	--	--	--

01 STAIR #1 - GROUND TIER PLAN
1/4" = 1'-0"

BASE ELEVATION = 200'-0"

03 STAIR #1 - THIRD TIER PLAN
1/4" = 1'-0"

BASE ELEVATION = 223'-0"

02 STAIR #1 - SECOND TIER PLAN
1/4" = 1'-0"

BASE ELEVATION = 211'-0"

04 STAIR #1 - FOURTH TIER PLAN
1/4" = 1'-0"

BASE ELEVATION = 234'-6"

CONSULTANTS:

ARCHITECT
Melville Thomas Architects, Inc.
600 Wyndhurst Avenue, Suite 315
Baltimore, MD 21210

STRUCTURAL ENGINEER
Tim Haahs & Associates, Inc.
550 Township Line Road, Suite 100
Blue Bell, PA 19422

PARKING CONSULTANT
Tim Haahs & Associates, Inc.
550 Township Line Road, Suite 100
Blue Bell, PA 19422

MEP ENGINEER
DCS Infrastructure, Inc.
3248 Route 112, Suite 1B
Medford, NY 11763

COST ESTIMATOR
DMS Construction Consulting Services, Inc.
5550 Sterrett Place, Suite 300
Columbia, MD 21044

CIVIL ENGINEER
KCI Technologies, Inc.
DCS Infrastructure, Inc.
3248 Route 112, Suite 1B
Medford, NY 11763

SEAL:

ARCHITECT/ENGINEERS:

Melville Thomas Architects, Inc.
ARCHITECTURE & PLANNING

TimHaahs

400 Wyndhurst Ave., Suite 315 Baltimore, MD 21210
T: 410.433.4400 F: 410.433.4719
www.mtarx.com

Drawing Title
**ELEVATOR/STAIR TOWER #1
STRUCTURAL PLANS**

Approved: Project Director

Project Title
**VA MEDICAL CENTER
EXPAND VISITOR/PATIENT
PARKING GARAGE - PHASE 1**

Location
50 IRVING ST. N.W. WASHINGTON, D.C.

Date
02/16/15

Checked
NCA

Drawn
BSS

Project Number
688-345

Building Number
-

Drawing Number
S1.6

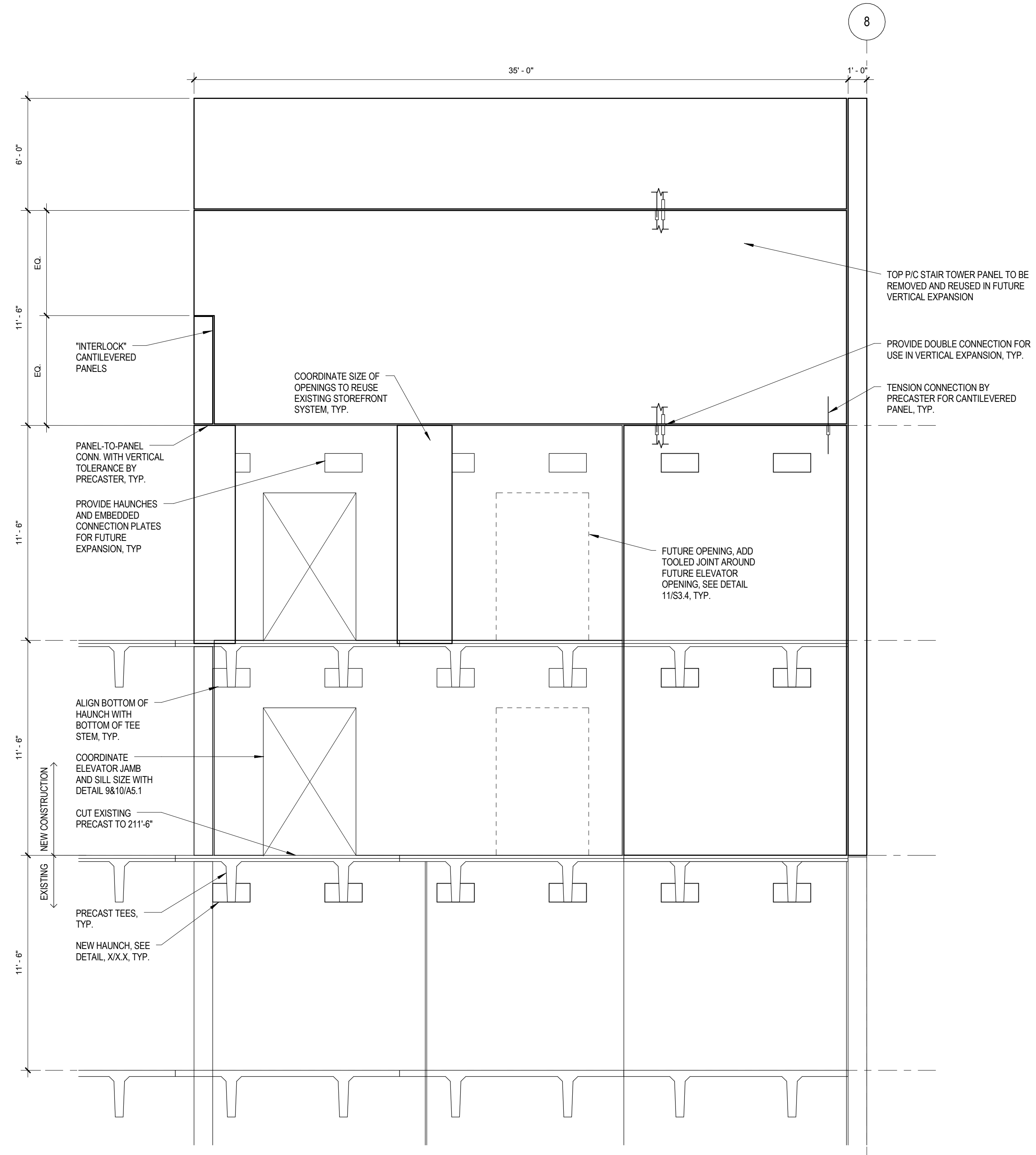
Dwg. 47 of 89

Office of
Construction
and Facilities
Management

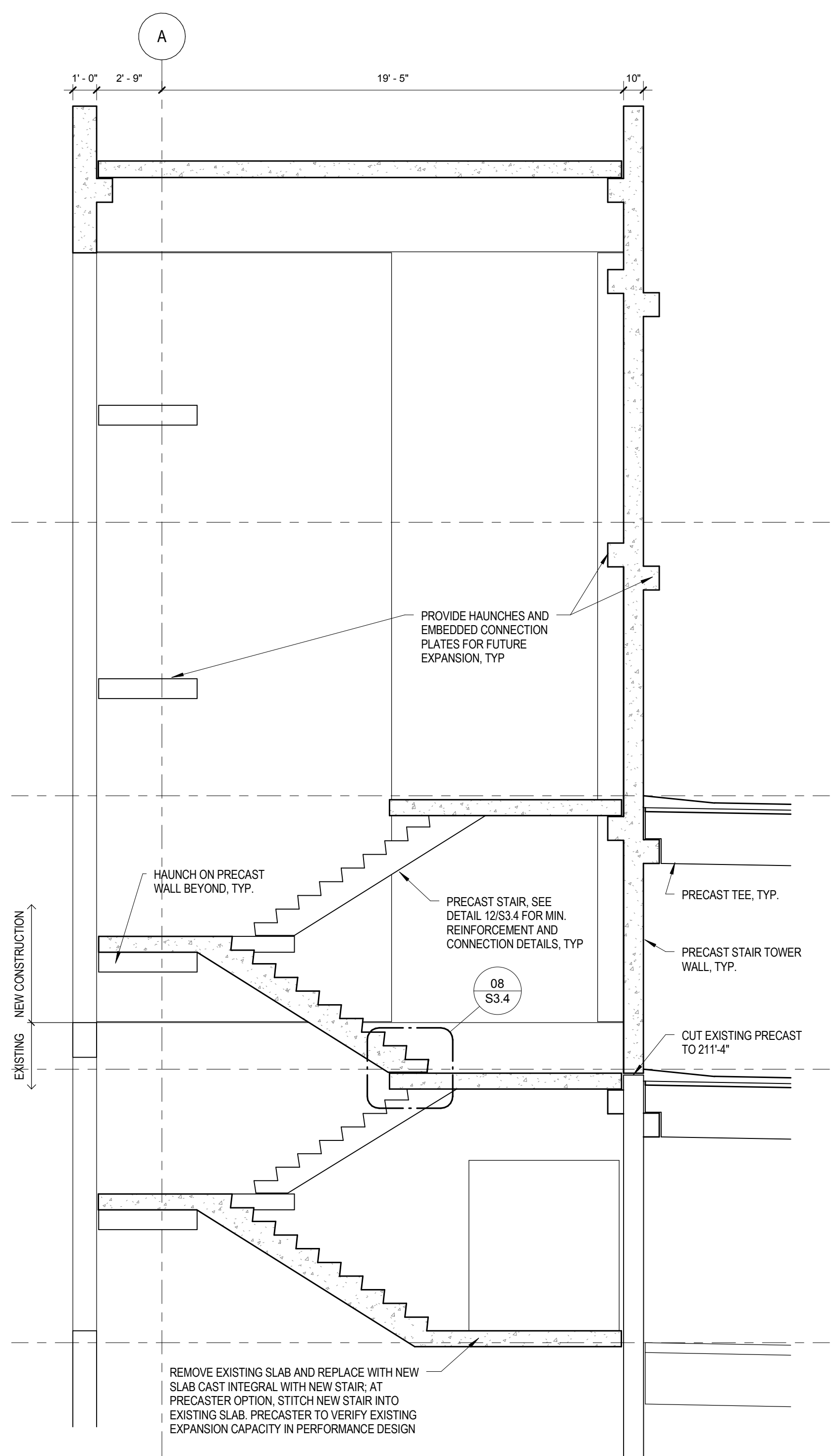


1/4" = 1'-0"

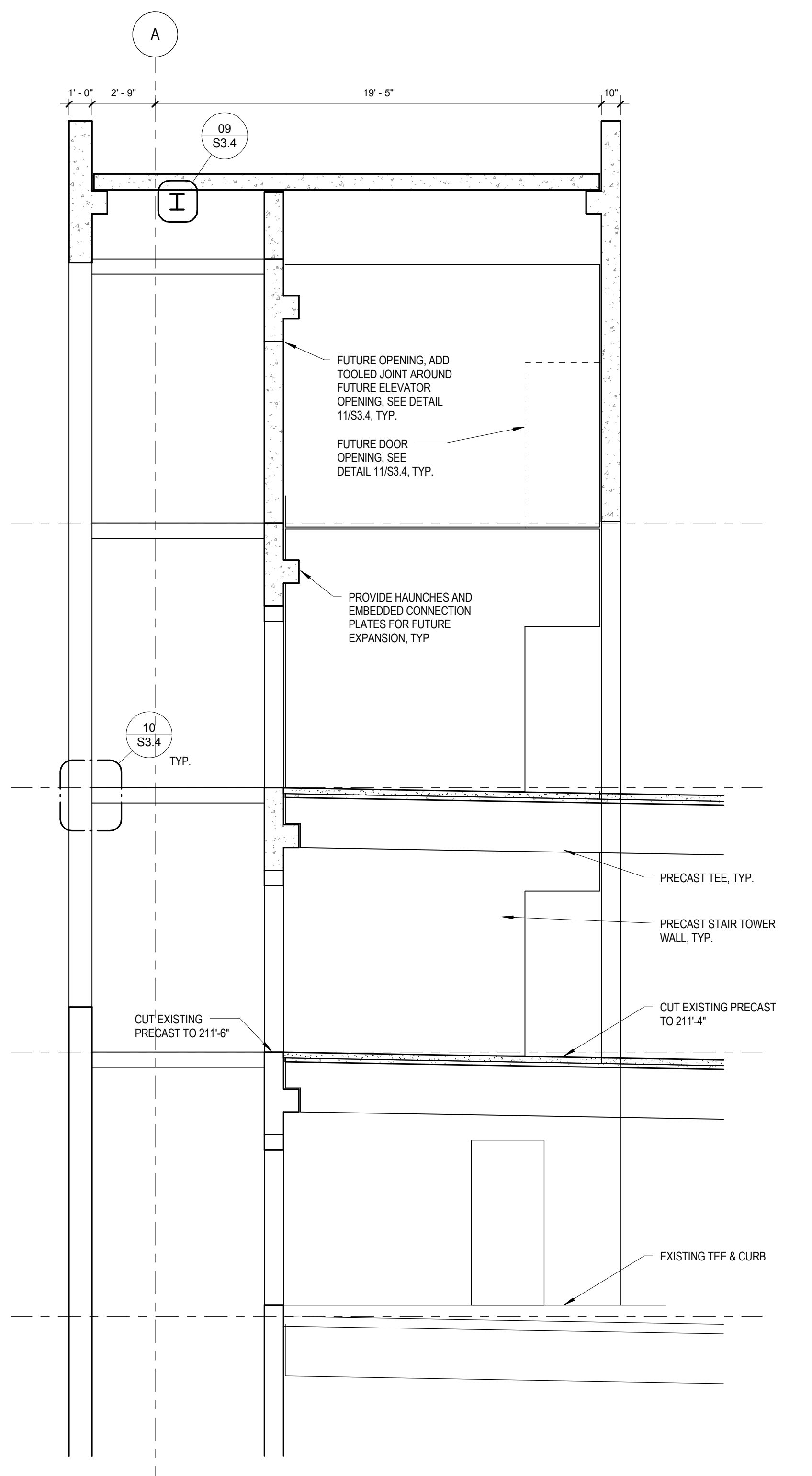
three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot



01 ELEVATOR / STAIR TOWER #1 SOUTH ELEVATION
 1/4" = 1'-0"



02 ELEVATOR / STAIR TOWER #1 SECTION THROUGH STAIR
 1/4" = 1'-0"



03 ELEVATOR / STAIR TOWER #1 SECTION THROUGH ELEVATOR
 1/4" = 1'-0"

Revisions:	Date
4 100% Submission	2/16/15
3 95% Submission	8/28/14
2 65% Submission	8/07/14

CONSULTANTS:	
ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210	PARKING CONSULTANT Tim Haas & Associates, Inc. 650 Township Line Road, Suite 100 Blue Bell, PA 19422
STRUCTURAL ENGINEER Tim Haas & Associates, Inc. 650 Township Line Road, Suite 100 Blue Bell, PA 19422	MEP ENGINEER DCS Infrastructure, Inc. 3249 Route 112, Suite 1B Medford, NY 11763

SEAL:

ARCHITECT/ENGINEERS:

Melville Thomas Architects, Inc.
 ARCHITECTURE & PLANNING

TimHaas

400 Wyndhurst Ave., Suite 315 Baltimore, MD 21210
 T. 410.433.4400 F. 410.433.4719
 www.mtarx.com

Drawing Title ELEVATOR/STAIR TOWER#1 ELEVATION & SECTIONS	Project Title VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1	Project Number 688-345
Approved: Project Director	Location 50 IRVING ST. N.W. WASHINGTON, D.C.	Building Number -
Date 02/16/15	Checked NCA	Drawn BSS
Drawing Number S1.7		Dwg. 48 of 89

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

A

B

C

D

E

F

F

F

F

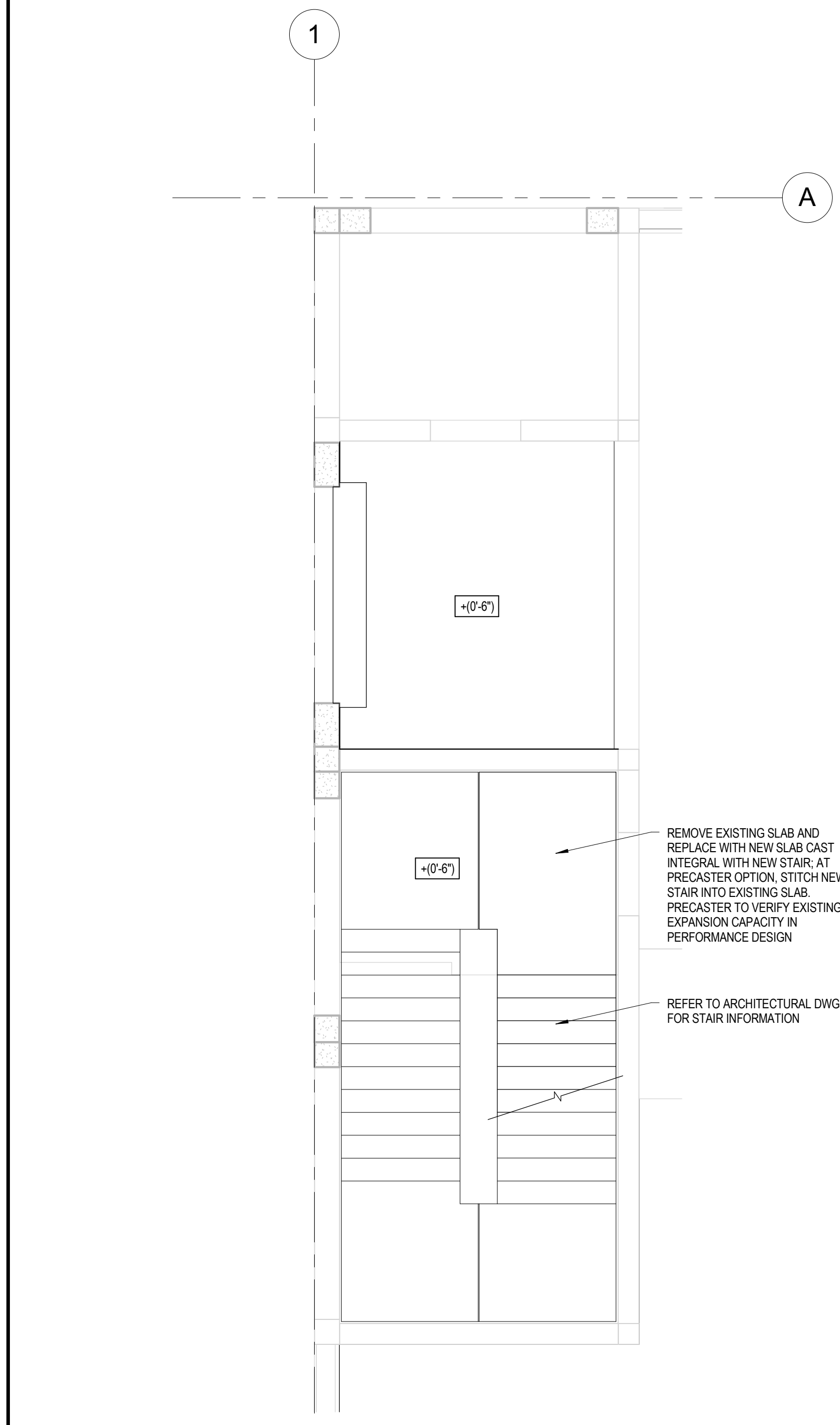
F

F

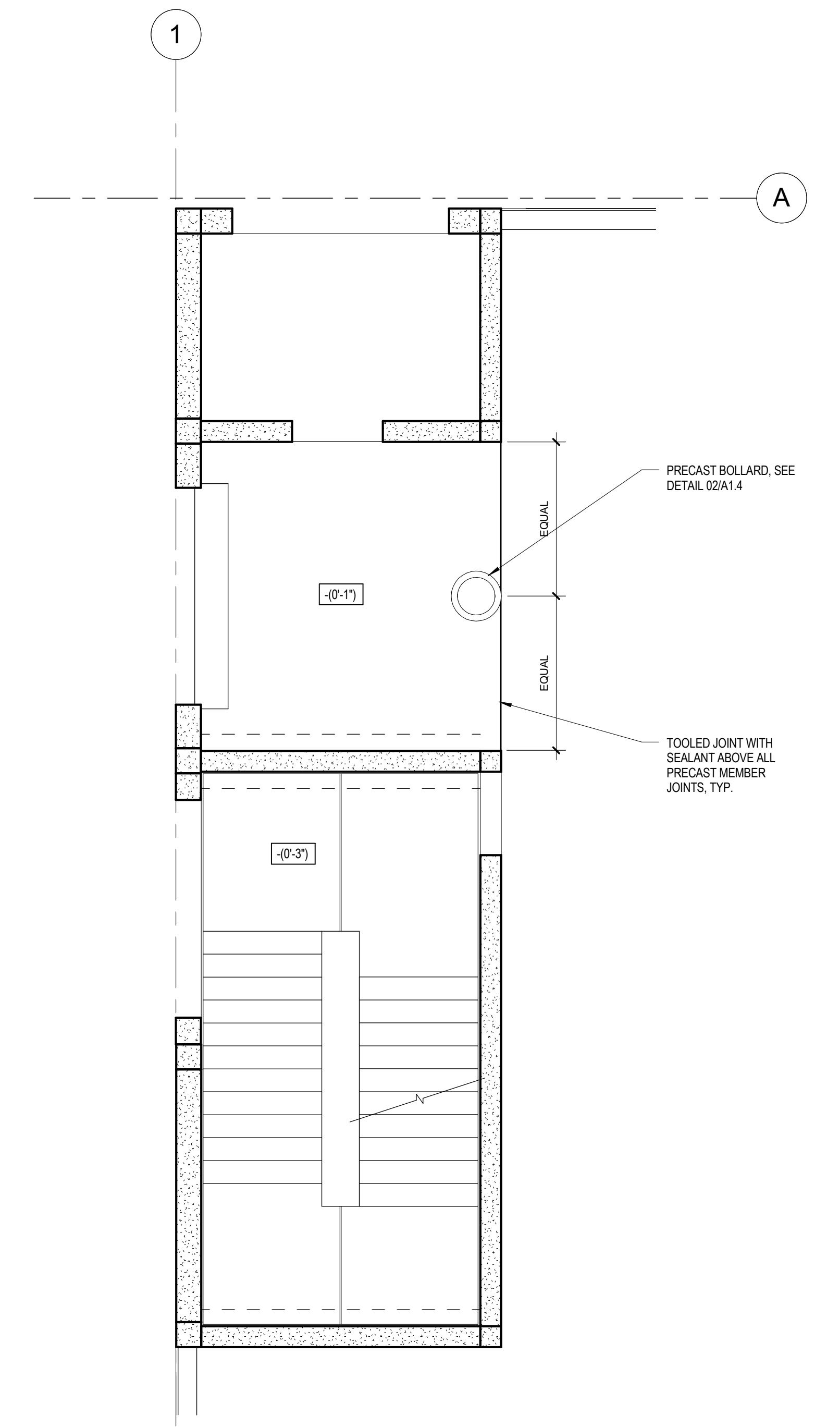
F

F

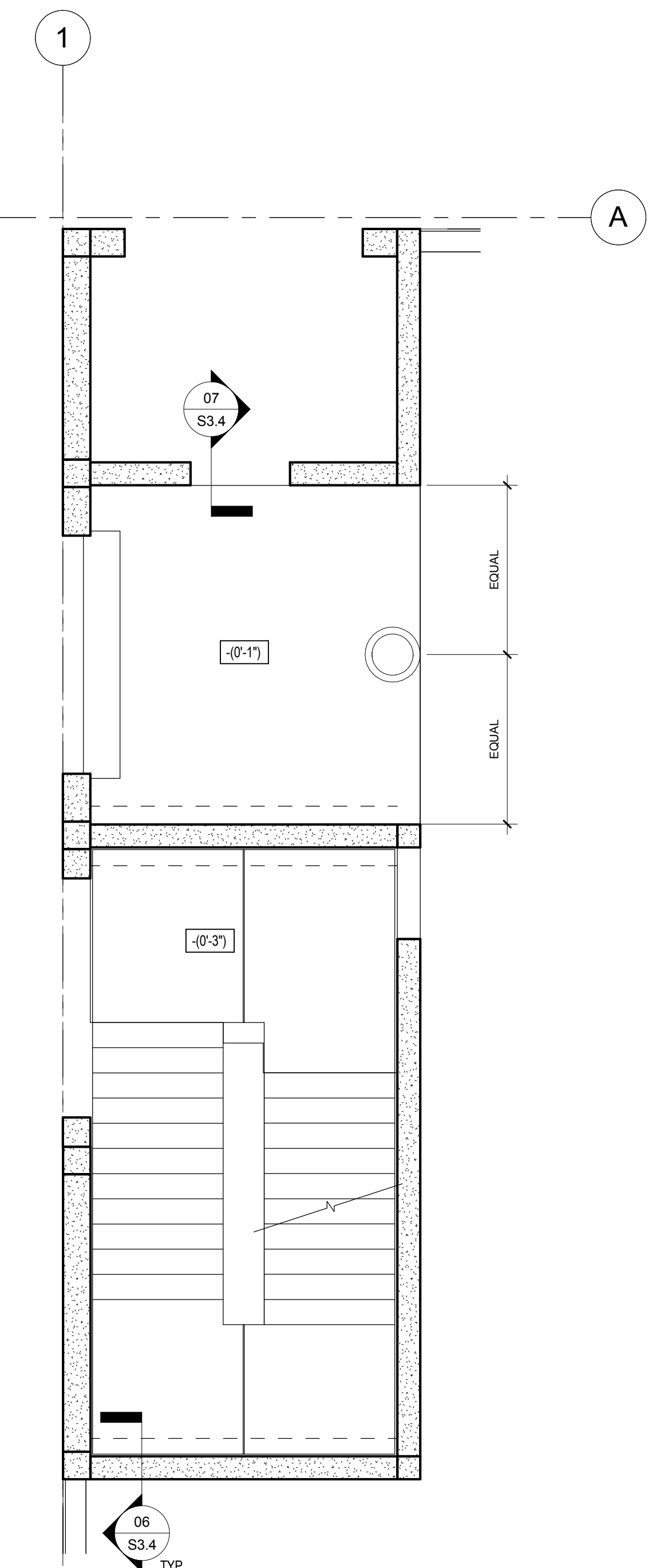
three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot



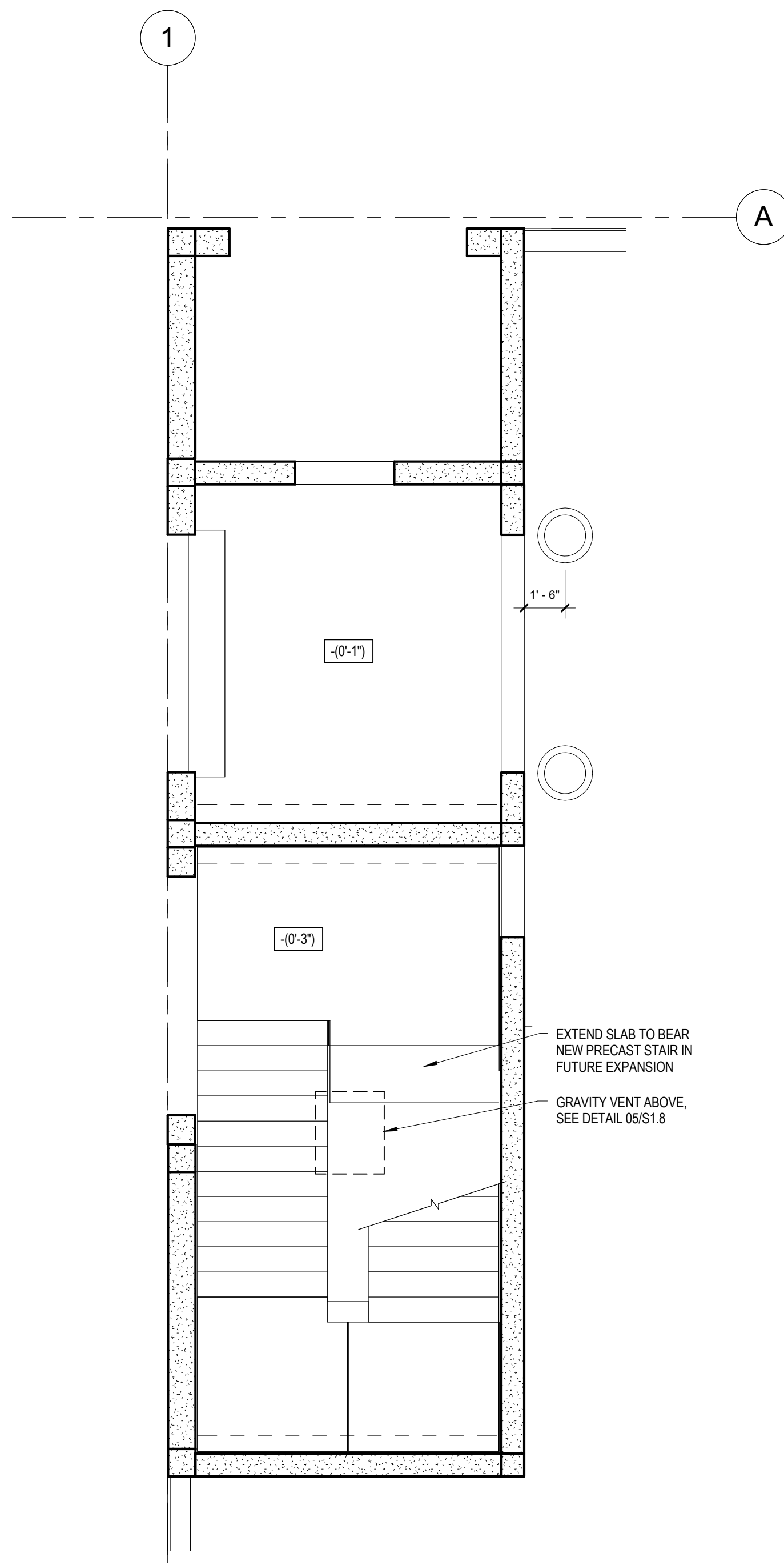
01 STAIR #2 - GROUND TIER PLAN
 1/4" = 1'-0"
 BASE ELEVATION = 200'-0"



02 STAIR #2 - SECOND TIER PLAN
 1/4" = 1'-0"
 BASE ELEVATION = 211'-6"



03 STAIR #2 - THIRD TIER PLAN
 1/4" = 1'-0"
 BASE ELEVATION = 223'-0"



04 STAIR #2 - FOURTH TIER PLAN
 1/4" = 1'-0"
 BASE ELEVATION = 234'-6"

SHEET NOTE: SEE SHEET A3.3 FOR STAIR AND RAILING INFORMATION.

Revisions:	Date
4 100% Submission	2/16/15
3 95% Submission	8/28/14
2 65% Submission	8/07/14

CONSULTANTS:	
ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210	PARKING CONSULTANT Tim Haas & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422
STRUCTURAL ENGINEER Tim Haas & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422	MEP ENGINEER DCS Infrastructure, Inc. 3249 Route 112, Suite 1B Medford, NY 11763

SEAL:

ARCHITECT/ENGINEERS:

Melville Thomas Architects, Inc.
 ARCHITECTURE & PLANNING

TimHaas

400 Wyndhurst Ave., Suite 315 Baltimore, MD 21210
 T. 410.433.4400 F. 410.433.4719
 www.mtarx.com

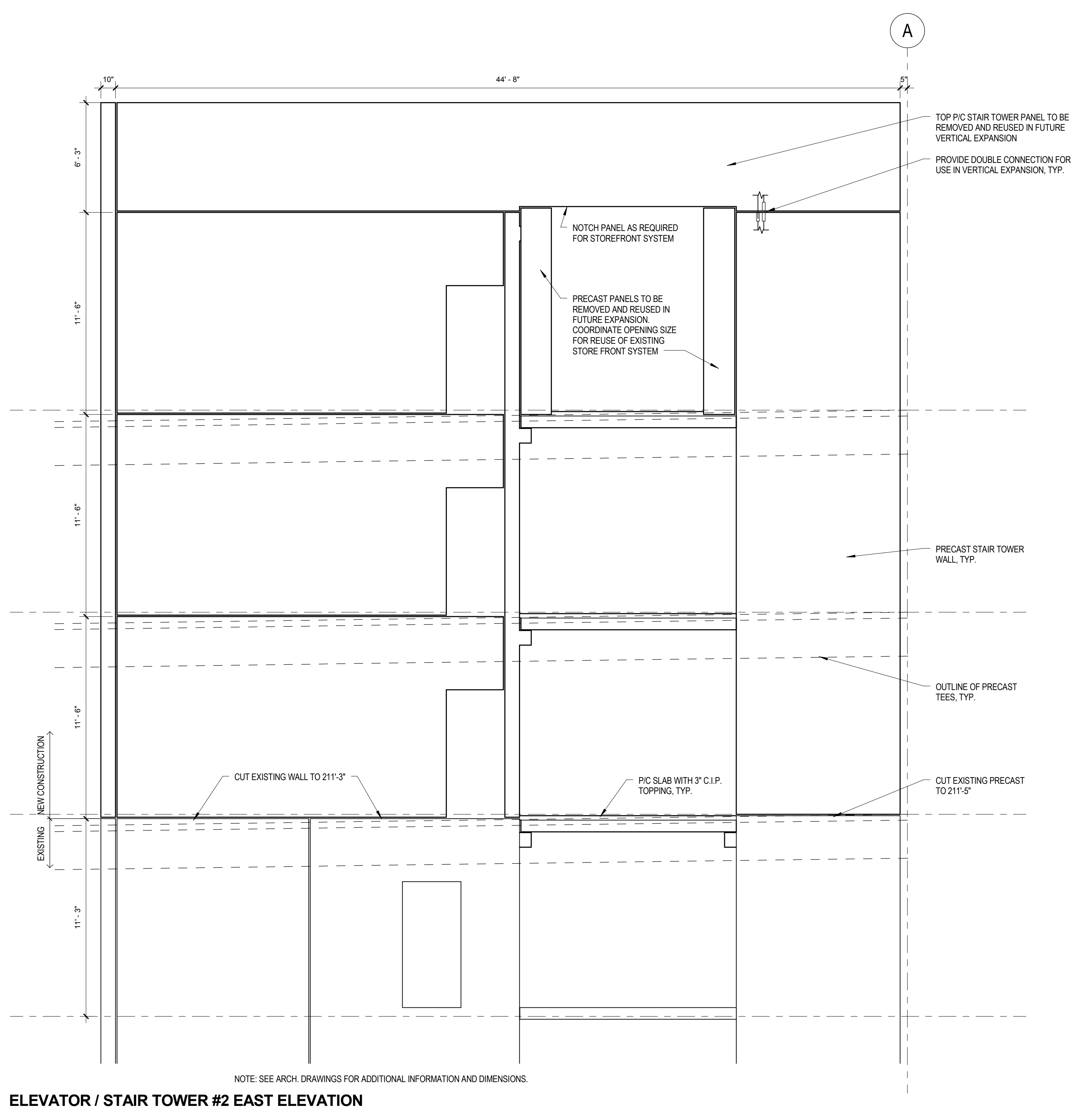
Drawing Title
ELEVATOR/STAIR TOWER #2 STRUCTURAL PLANS
Approved: Project Director

Project Title	Project Number
VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1	688-345
Location 50 IRVING ST. N.W. WASHINGTON, D.C.	Building Number -
Date 02/16/15	Checked NCA
Drawn BSS	Drawing Number S1.8
	Dwg. 49 of 89

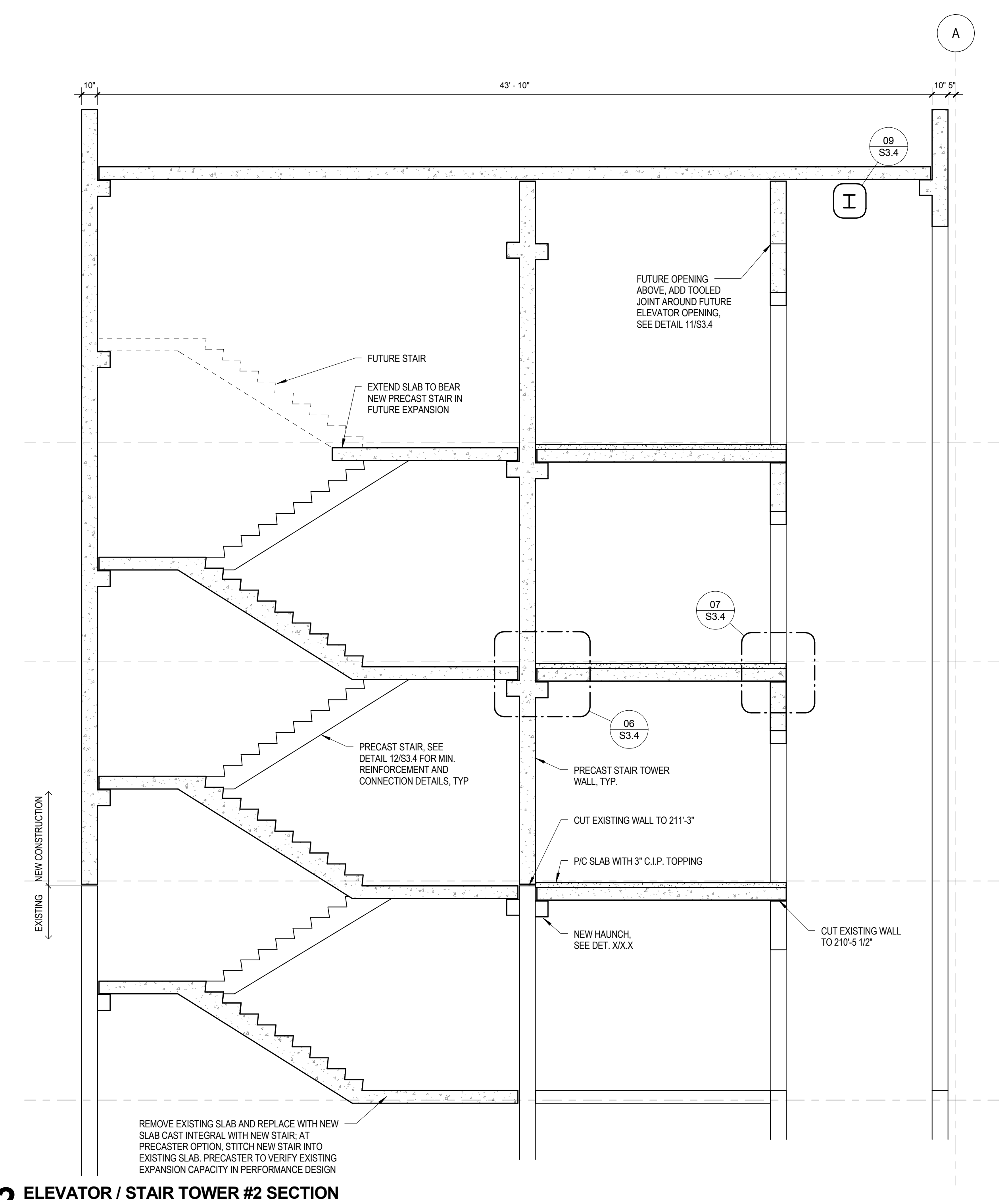
Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

1/4" = 1'-0"



01 ELEVATOR / STAIR TOWER #2 EAST ELEVATION
1/4" = 1'-0"



2 ELEVATOR / STAIR TOWER #2 SECTION
1/8" = 1'-0"

CONSULTANTS:	
ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210	PARKING CONSULTANT Tim Haas & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422
STRUCTURAL ENGINEER Tim Haas & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422	MEP ENGINEER DCS Infrastructure, Inc. 3249 Route 112, Suite 1B Medford, NY 11763
COST ESTIMATOR DMS Construction Consulting Services, Inc. 5550 Sternett Place, Suite 300 Columbia, MD 21044	CIVIL ENGINEER KCI Technologies, Inc. 936 Rogelenski Road Sparks, MD 21152

SEAL:

ARCHITECT/ENGINEERS:

Melville Thomas Architects, Inc.
ARCHITECTURE & PLANNING

TimHaas

400 Wyndhurst Ave., Suite 315 Baltimore, MD 21210
T. 410.433.4400 F. 410.433.4719
www.mtarx.com

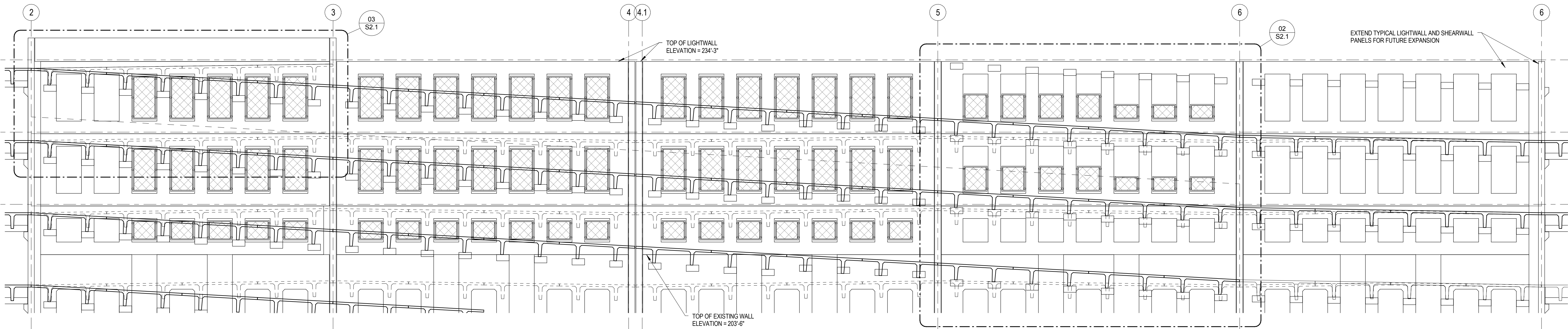
Drawing Title ELEVATOR/STAIR TOWER #2 ELEVATION & SECTION	Project Title VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1
Approved: Project Director	Location 50 IRVING ST. N.W. WASHINGTON, D.C.
	Date 02/16/15
	Checked NCA
	Drawn BSS

Project Number 688-345	Drawing Number S1.9
Building Number -	
Date 02/16/15	
Checked NCA	
Drawn BSS	
Dwg. 50 of 89	

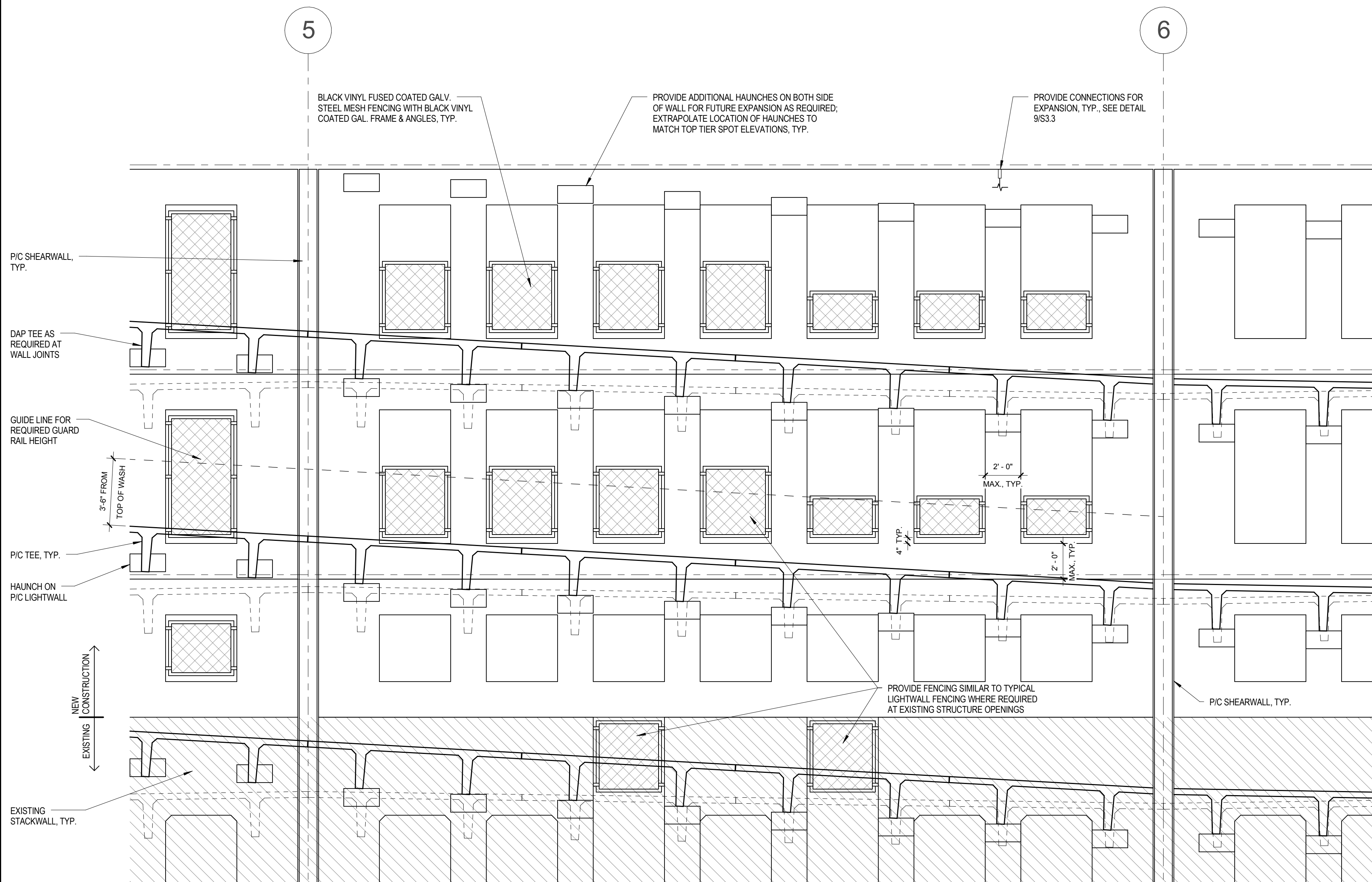
Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

01 WALL SECTION AT LIGHTWALL
1/8" = 1'-0"

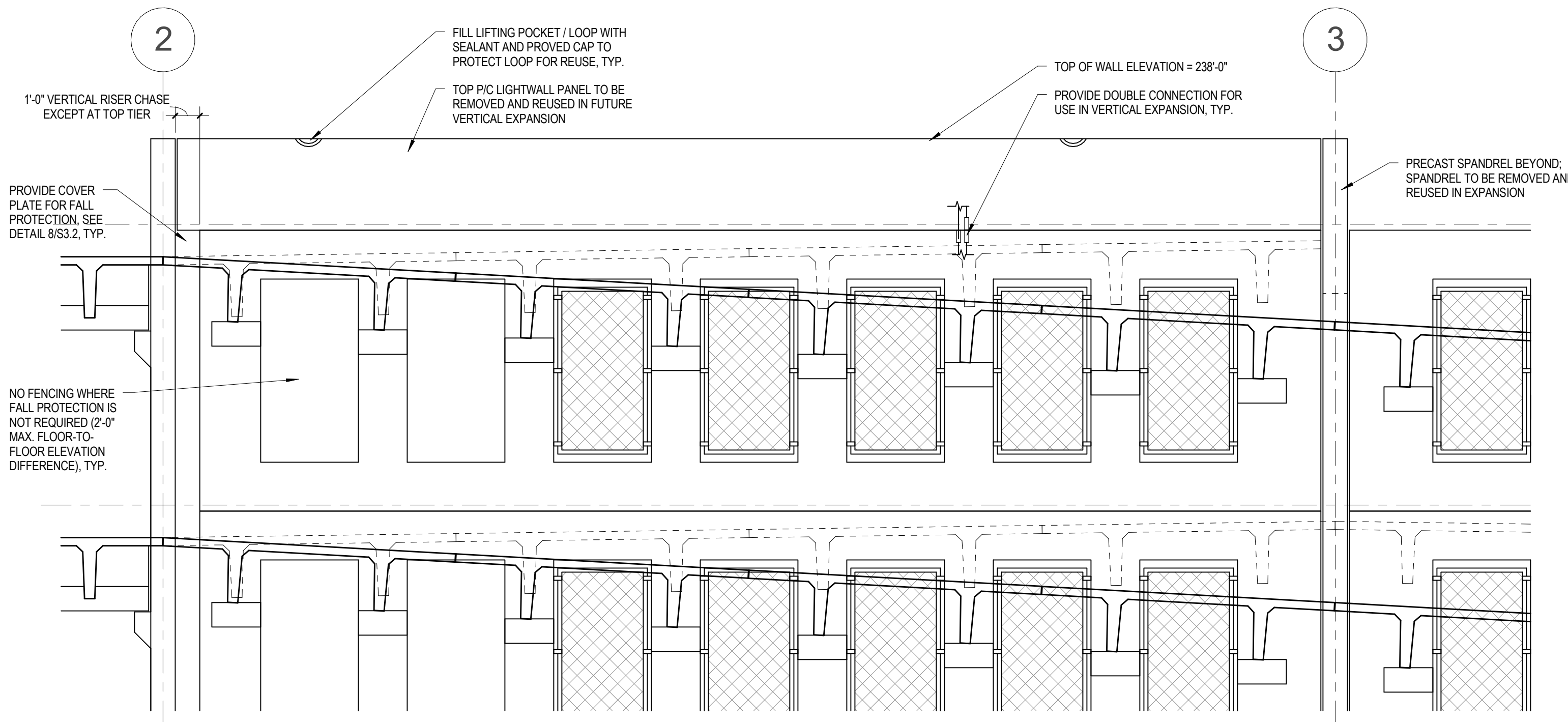


02 TYPICAL LIGHTWALL ELEVATION
1/4" = 1'-0"

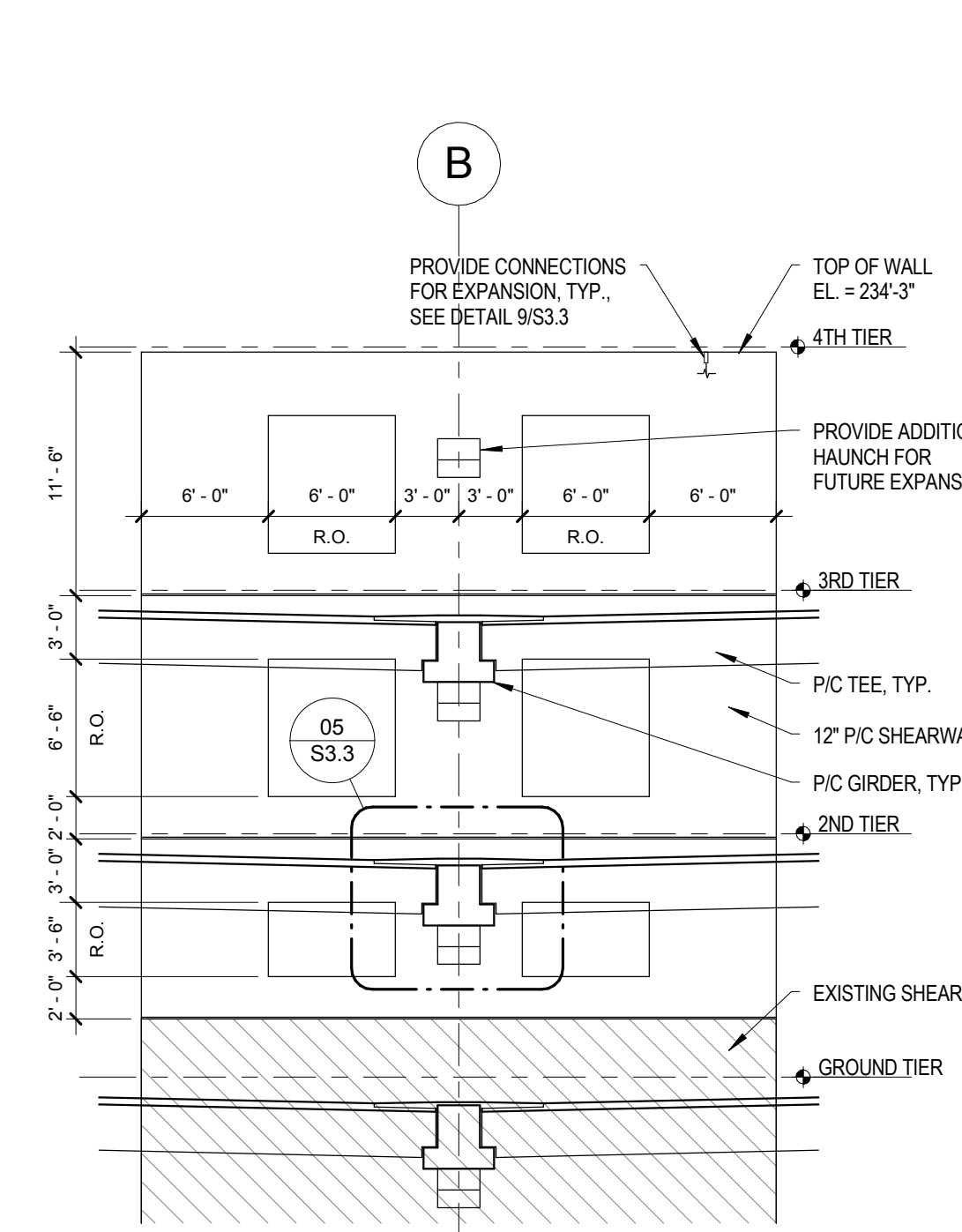


- NOTES:**
1. THIS DETAIL IS FOR ILLUSTRATIVE PURPOSES ONLY. PRECASTER SHALL DETERMINE HEIGHT OF FENCING WHILE MAINTAINING GUARDRAIL HEIGHT.
 2. DIMENSIONS OF THE LIGHTWALL OPENINGS SHOWN ON THIS DETAIL ARE MINIMUM REQUIRED. PRECASTER SHALL MAXIMIZE HEIGHT & WIDTH OF OPENINGS. PRECASTER TO DESIGN LIGHTWALL AS MOMENT FRAME.
 3. LIGHTWALL FENCING SHOWN IS DEDUCT ALTERNATE. SEE DETAIL 9/S3.3 FOR BASE BID.

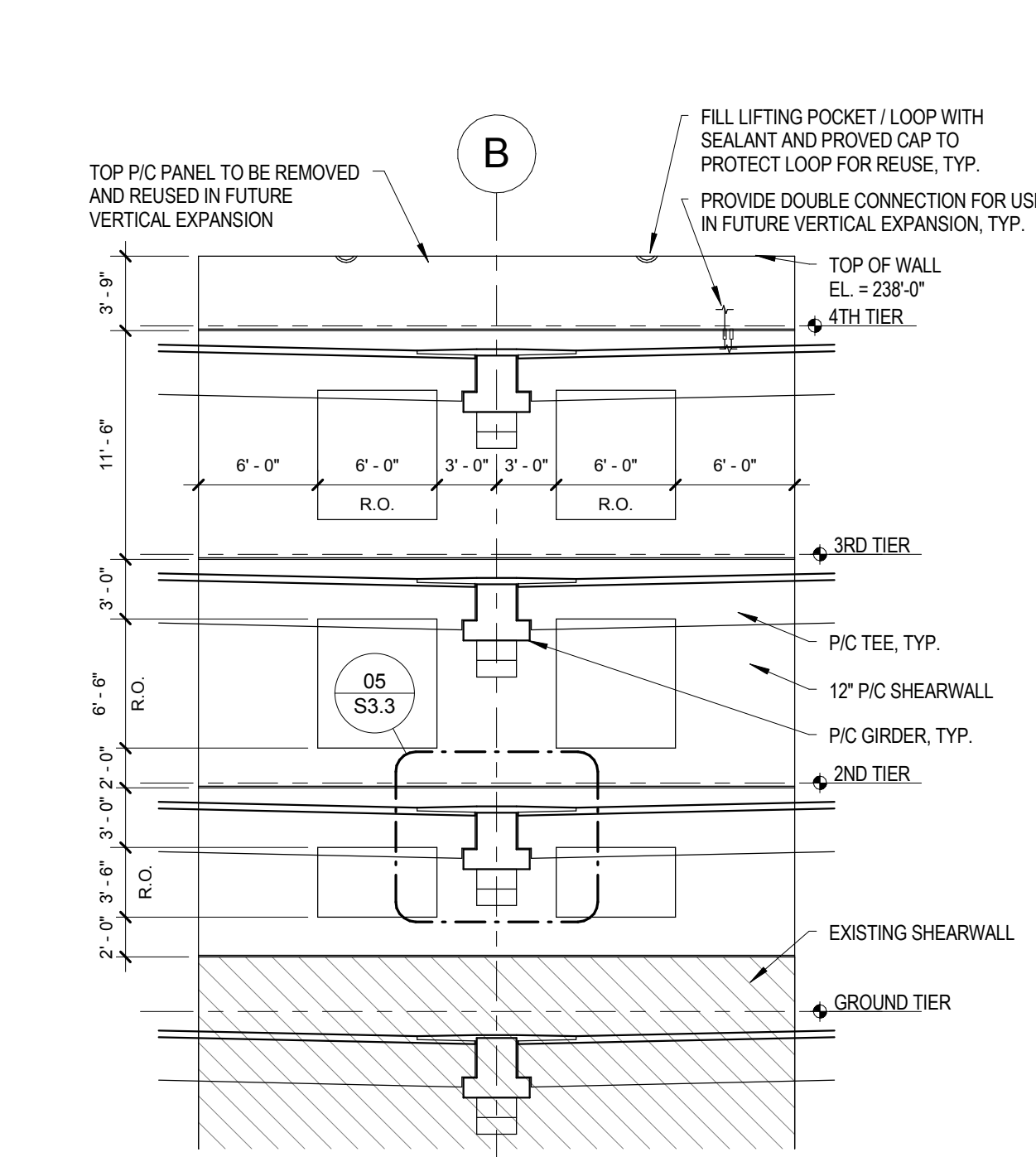
03 LIGHTWALL ELEVATION AT TOP TIER
1/4" = 1'-0"



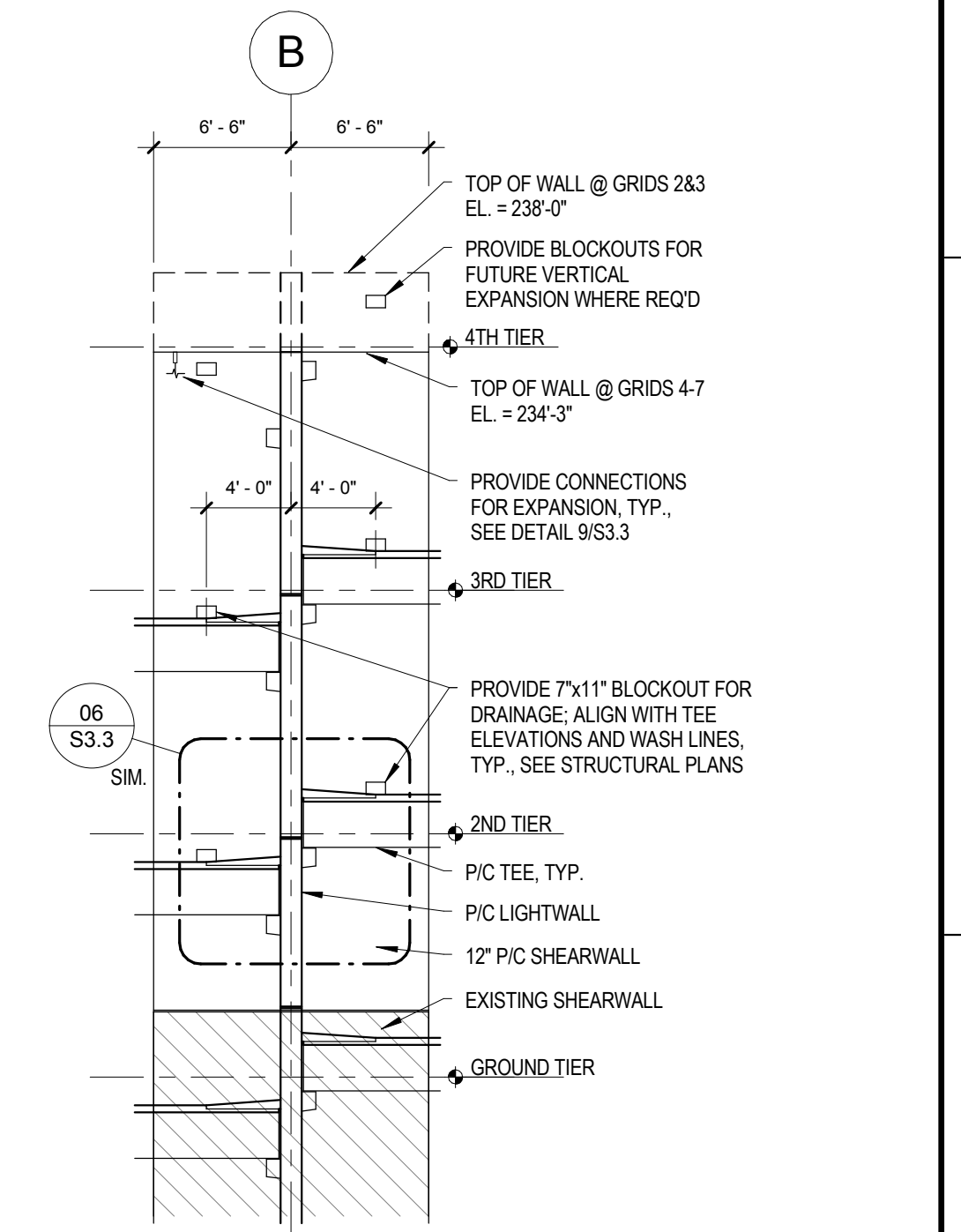
04 INTERIOR SHEARWALL ELEVATION AT GRID 2
1/8" = 1'-0"



05 INTERIOR SHEARWALL ELEVATION AT GRID 7
1/8" = 1'-0"



06 TYPICAL INTERIOR SHEARWALL ELEVATION
1/8" = 1'-0"



CONSULTANTS:

ARCHITECT
Melville Thomas Architects, Inc.
600 Wyndhurst Avenue, Suite 315
Baltimore, MD 21210

STRUCTURAL ENGINEER
Tim Haas & Associates, Inc.
520 Township Line Road, Suite 100
Blue Bell, PA 19422

PARKING CONSULTANT
Tim Haas & Associates, Inc.
650 Township Line Road, Suite 100
Blue Bell, PA 19422

MEP ENGINEER
DCS Infrastructure, Inc.
3248 Route 112, Suite 1B
Medford, NY 11763

COST ESTIMATOR
DMS Construction Consulting Services, Inc.
5550 Sterrett Place, Suite 300
Columbia, MD 21044

CIVIL ENGINEER
KCI Technologies, Inc.
936 Rogersons Road
Sparks, MD 21152

SEAL:

ARCHITECT/ENGINEERS:

Melville Thomas Architects, Inc.
ARCHITECTURE & PLANNING

TimHaas

400 Wyndhurst Ave., Suite 315 Baltimore, MD 21210
T: 410.433.4400 F: 410.433.4719
www.mtarx.com

Drawing Title

LIGHTWALL & SHEARWALL SECTIONS

Approved: Project Director

Project Title

**VA MEDICAL CENTER
EXPAND VISITOR/PATIENT
PARKING GARAGE - PHASE 1**

Location
50 IRVING ST. N.W. WASHINGTON, D.C.

Project Number
688-345

Building Number
-

Drawing Number
S2.1

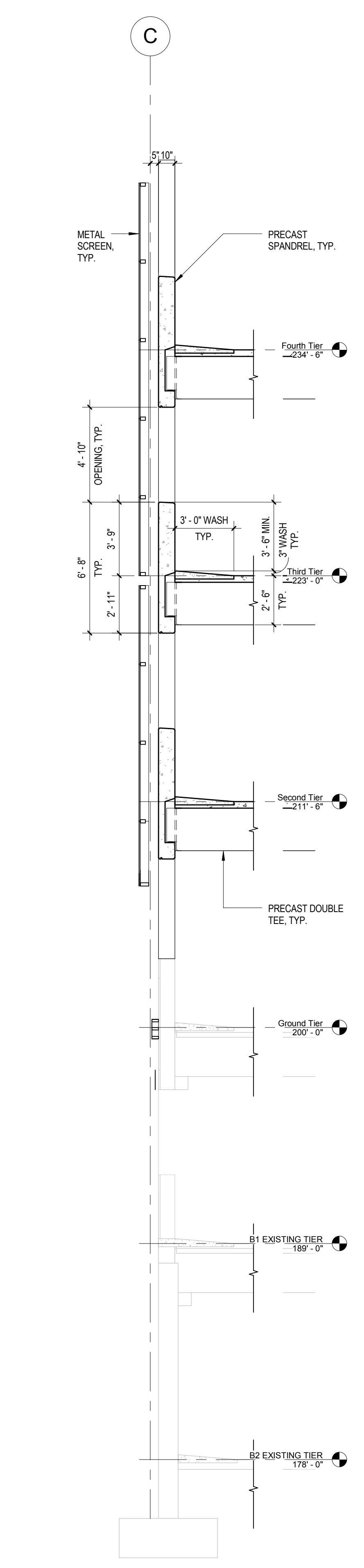
Dwg. 51 of 89

Office of
Construction
and Facilities
Management

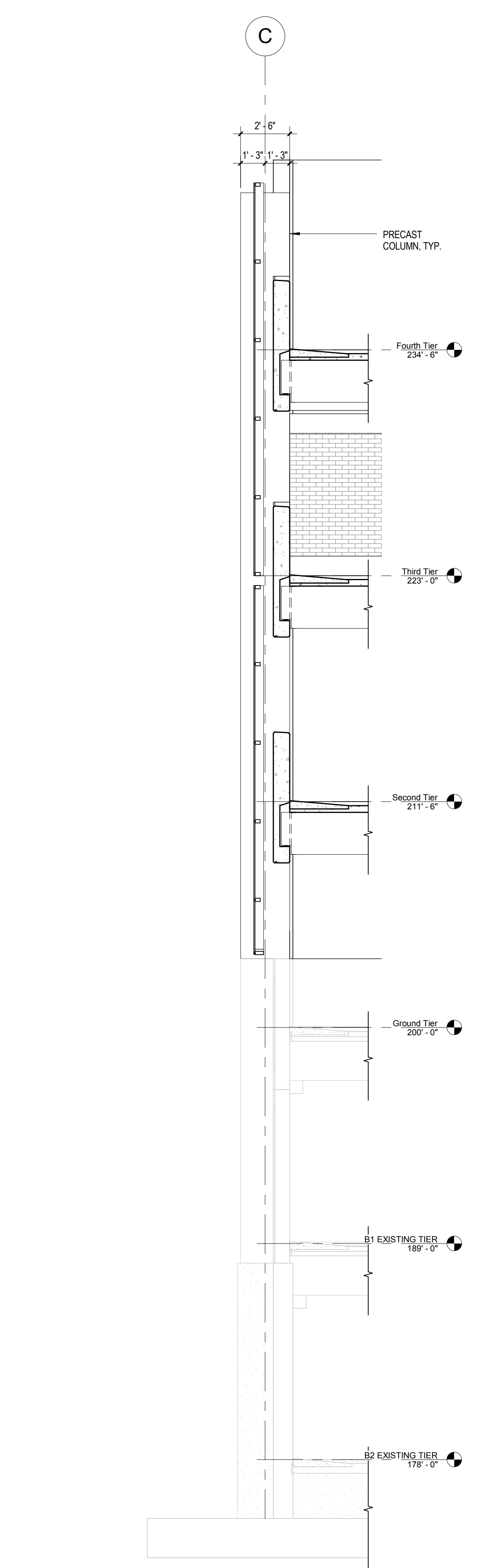
Department of
Veterans Affairs

As indicated

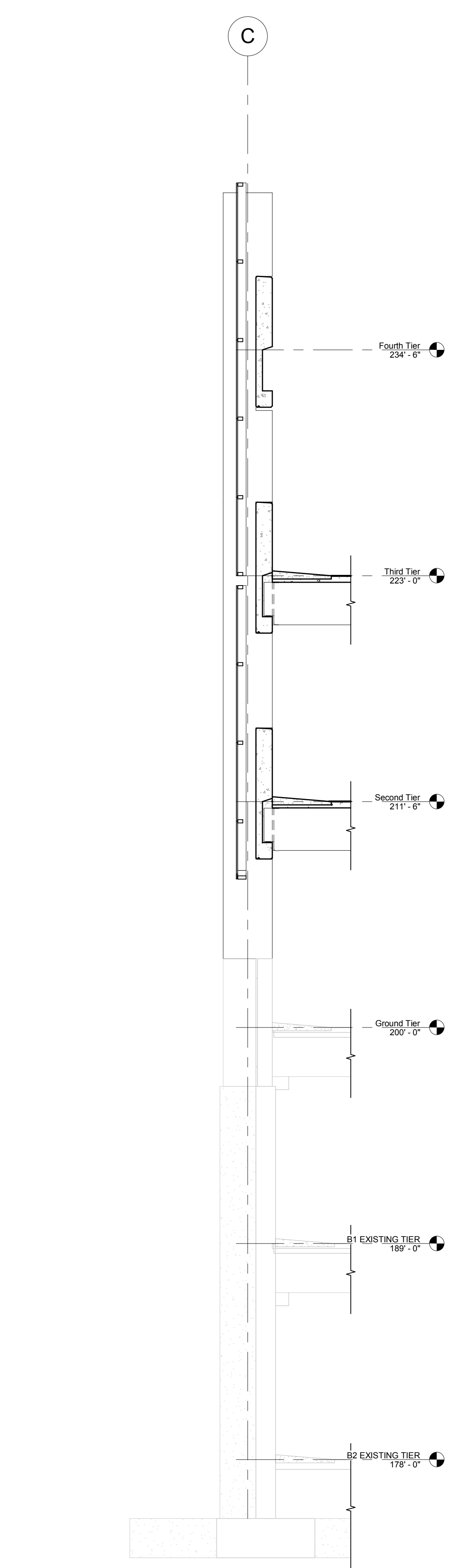
three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot



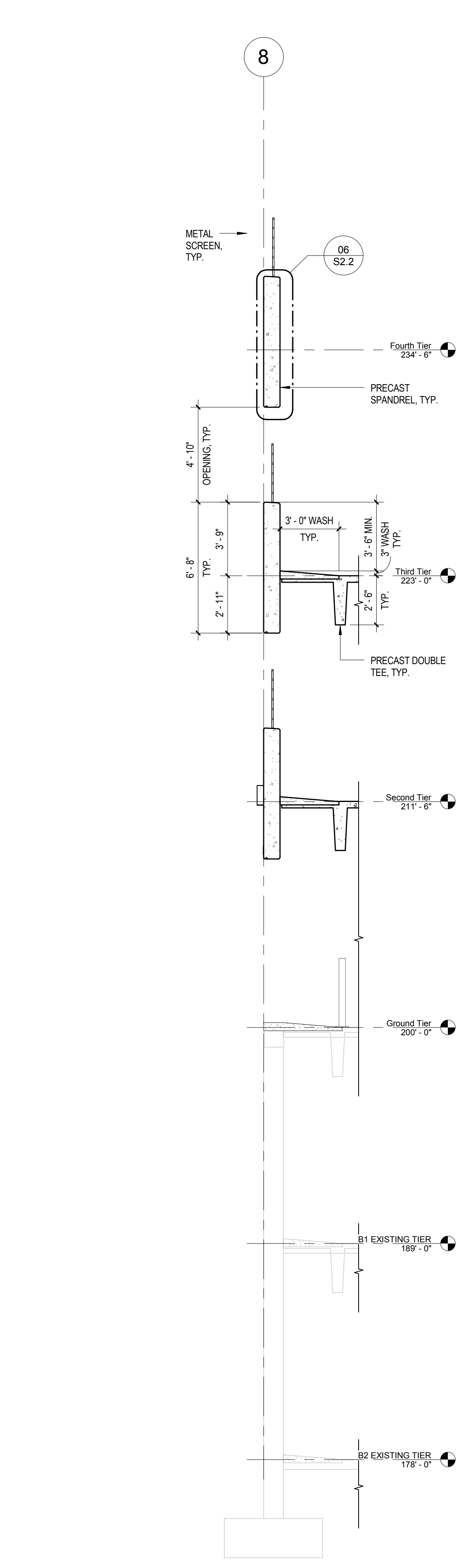
01 WALL SECTION AT ENTRY/EXIT ON B1
 1/4" = 1'-0"



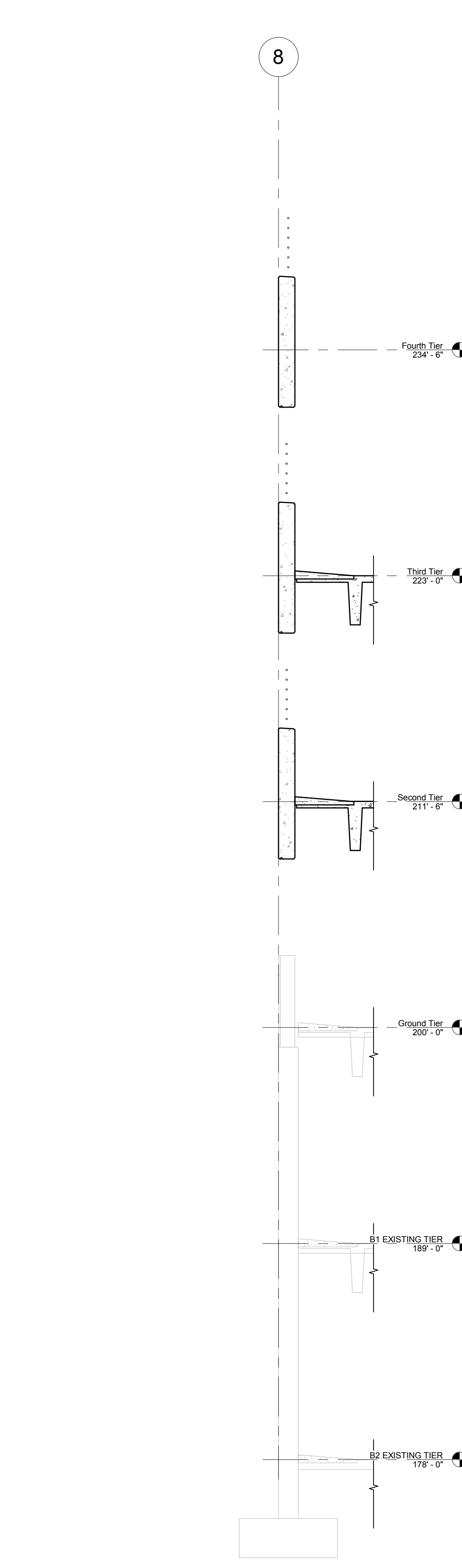
02 WALL SECTION AT SOUTH WALL BETWEEN GRID 2 & 6, TYP.
 1/4" = 1'-0"
 NOTE: SEE 01/A3.4 FOR ADD'L NOTES



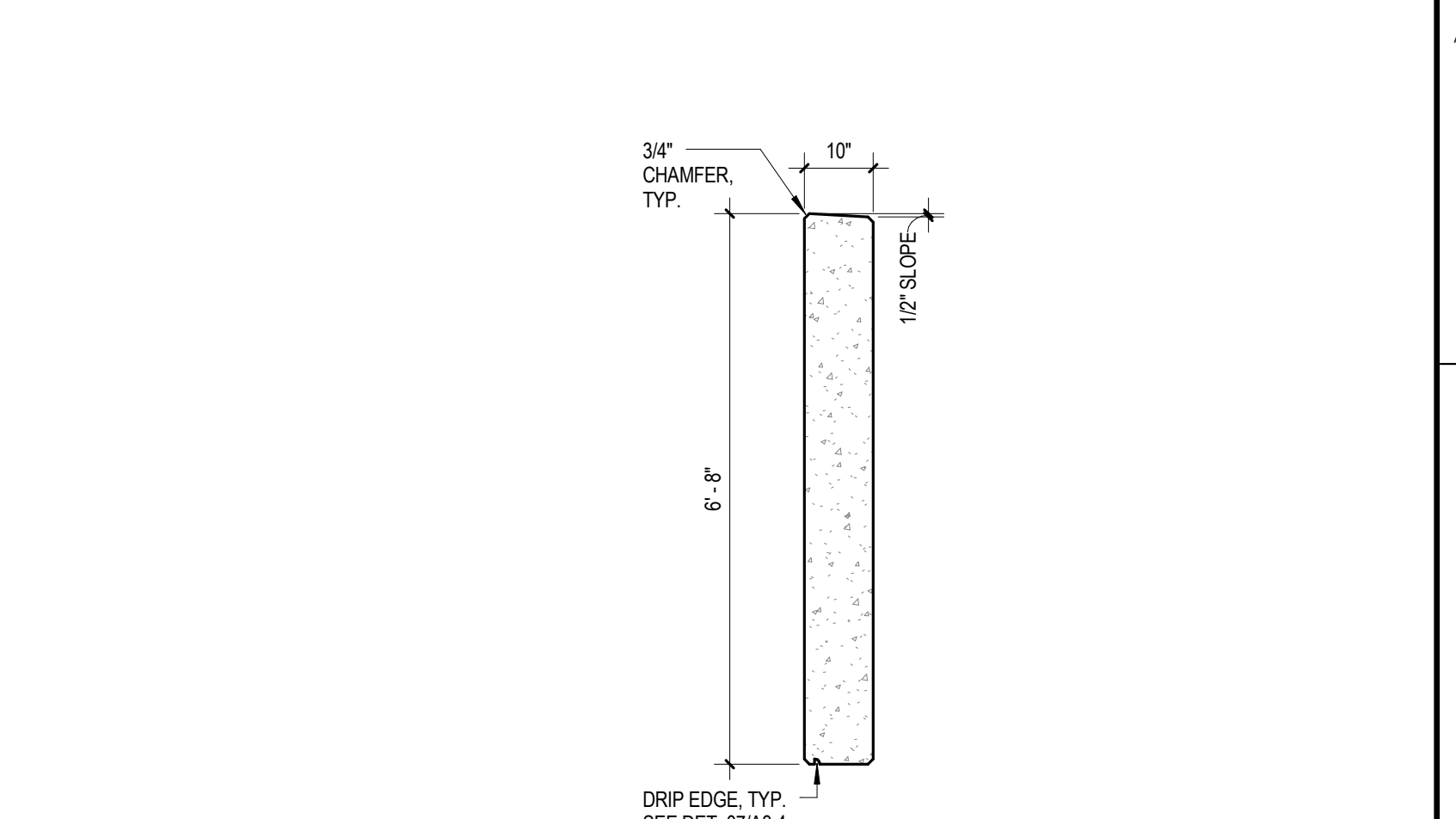
03 WALL SECTION AT SOUTH BETWEEN 6 & 8, TYP.
 1/4" = 1'-0"
 NOTE: SEE 01/A3.4 FOR ADD'L NOTES



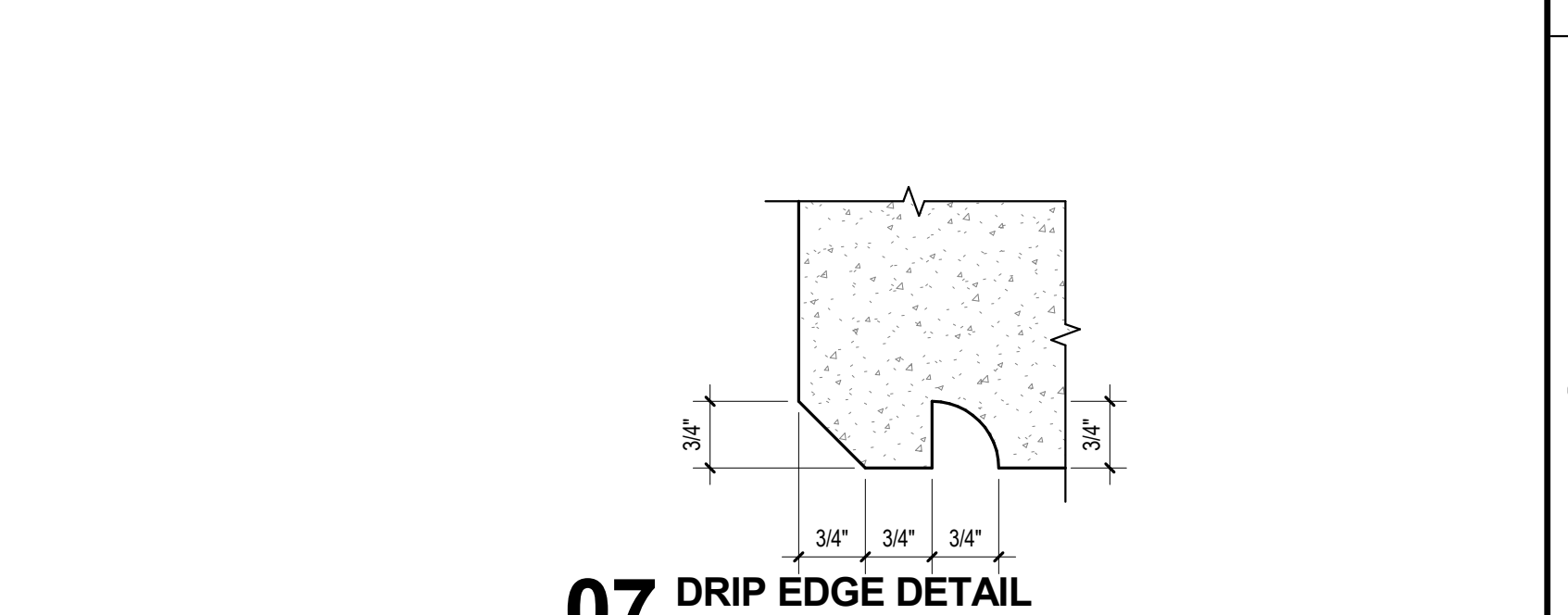
04 WALL SECTION AT ENTRY/EXIT ON GROUND
 1/4" = 1'-0"



05 WALL SECTION AT EAST WALL, TYP.
 1/4" = 1'-0"
 NOTE: SEE 04/A3.4 FOR ADD'L NOTES



06 SPANDREL PROFILE DETAIL
 1/2" = 1'-0"



07 DRIP EDGE DETAIL
 1/2" = 1'-0"

4	100% Submission	2/16/15
3	95% Submission	8/28/14
2	65% Submission	8/07/14
Revisions:		Date

CONSULTANTS:		
ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210	PARKING CONSULTANT Tim Haas & Associates, Inc. 650 Township Line Road, Suite 100 Blue Bell, PA 19422	COST ESTIMATOR DMS Construction Consulting Services, Inc. 5550 Sterrett Place, Suite 300 Columbia, MD 21044
STRUCTURAL ENGINEER Tim Haas & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422	MEP ENGINEER DCS Infrastructure, Inc. 3248 Route 112, Suite 1B Medford, NY 11763	CIVIL ENGINEER KCI Technologies, Inc. 936 Roggenbuck Road Sparks, MD 21152

SEAL:

ARCHITECT/ENGINEERS:

Melville Thomas Architects, Inc.
 ARCHITECTURE & PLANNING

TimHaas

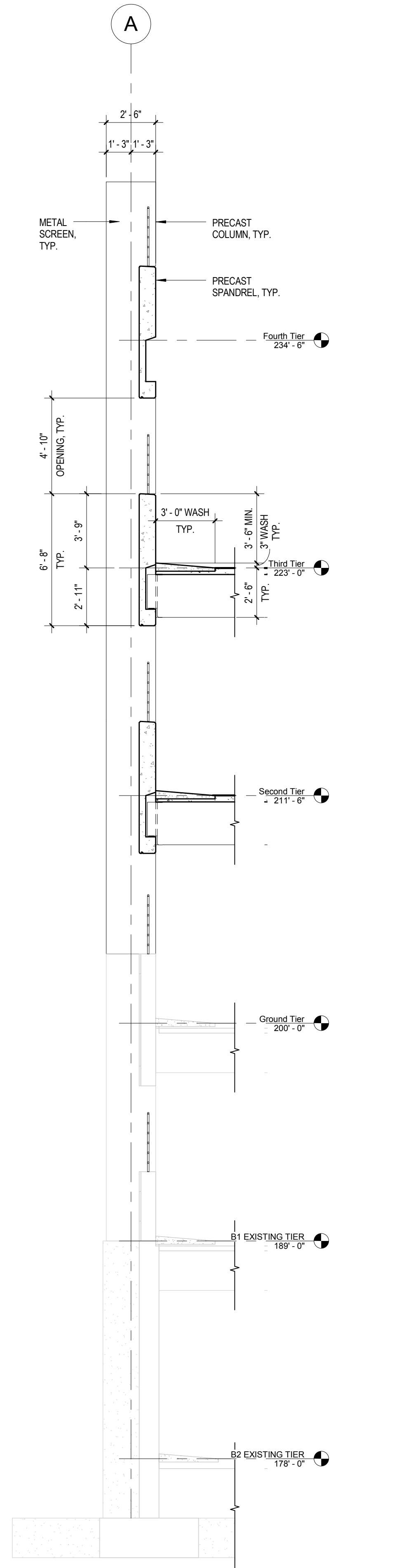
400 Wyndhurst Ave., Suite 315 Baltimore, MD 21210
 T. 410.433.4400 F. 410.433.4719
 www.mtarx.com

Drawing Title WALL SECTIONS & SPANDREL DETAILS	Project Title VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1	Project Number 688-345
Approved: Project Director	Location 50 IRVING ST. N.W. WASHINGTON, D.C.	Building Number
Date	Date 02/16/15	Drawing Number S2.2
Checked NCA	Drawn BSS	Dwg. 52 of 89

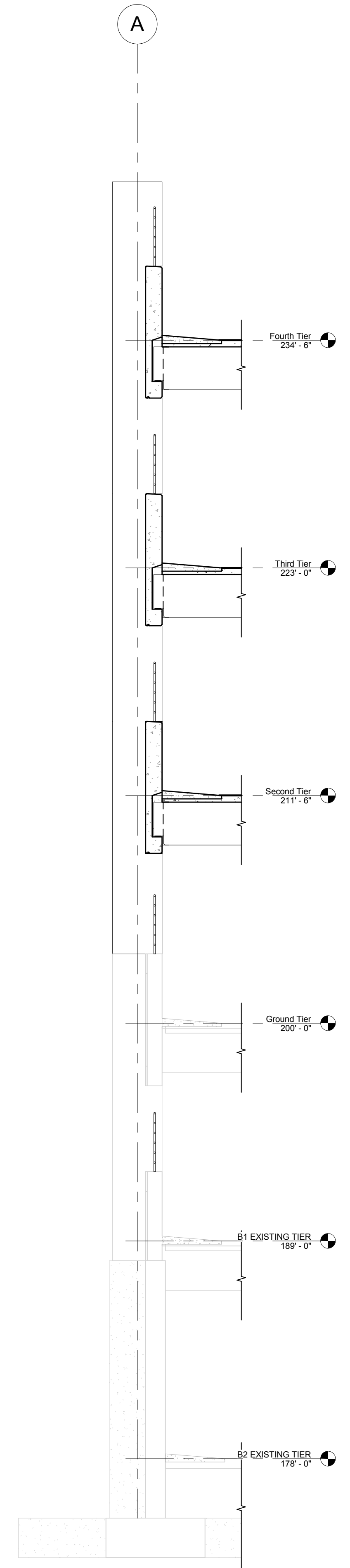
Office of Construction and Facilities Management

Department of Veterans Affairs

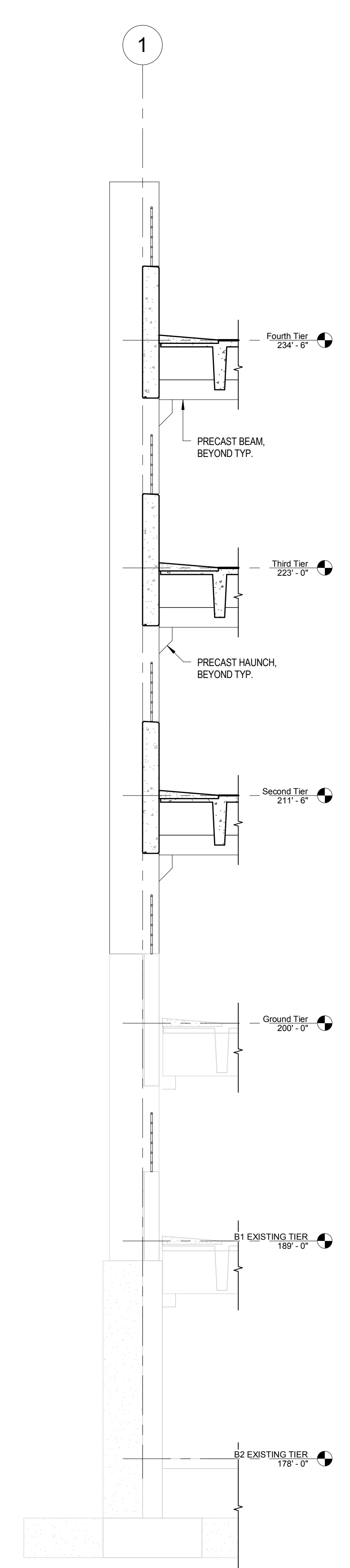
three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot



01 WALL SECTION AT NORTH WALL BETWEEN 3 & 8, TYP.
 1/4" = 1'-0"



02 WALL SECTION AT NORTH WALL BETWEEN 1 & 3, TYP.
 1/4" = 1'-0"
 NOTE: SEE 01A3.5 FOR ADDL NOTES



03 WALL SECTION AT WEST WALL, TYP.
 1/4" = 1'-0"
 NOTE: SEE 01A3.5 FOR ADDL NOTES

1/4" = 1'-0"

4	100% Submission	2/16/15
3	95% Submission	8/28/14
2	65% Submission	8/07/14
Revisions:		Date

CONSULTANTS:	
ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210	PARKING CONSULTANT Tim Haahs & Associates, Inc. 650 Township Line Road, Suite 100 Blue Bell, PA 19422
STRUCTURAL ENGINEER Tim Haahs & Associates, Inc. 650 Township Line Road, Suite 100 Blue Bell, PA 19422	MEP ENGINEER DCS Infrastructure, Inc. 3249 Route 112, Suite 1B Medford, NY 11763
COST ESTIMATOR DMS Construction Consulting Services, Inc. 5550 Sterrett Place, Suite 300 Columbia, MD 21044	CIVIL ENGINEER KCI Technologies, Inc. 936 Roggenbuck Road Sparks, MD 21152

SEAL:

ARCHITECT/ENGINEERS:

Melville Thomas Architects, Inc.
 ARCHITECTURE & PLANNING

TimHaahs

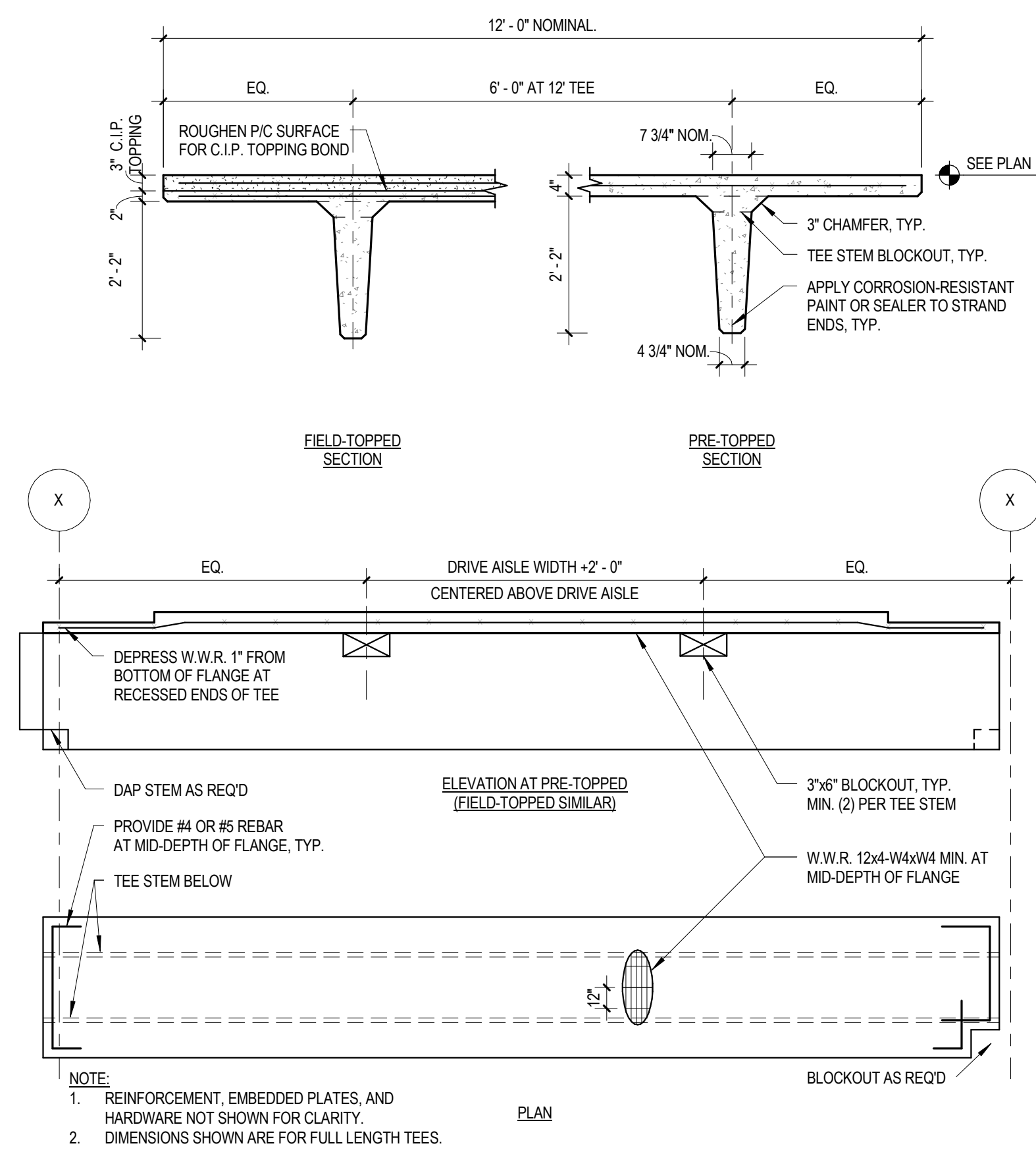
400 Wyndhurst Ave., Suite 315 Baltimore, MD 21210
 T. 410.433.4400 F. 410.433.4719
 www.mtarx.com

Drawing Title	WALL SECTIONS
Approved: Project Director	-

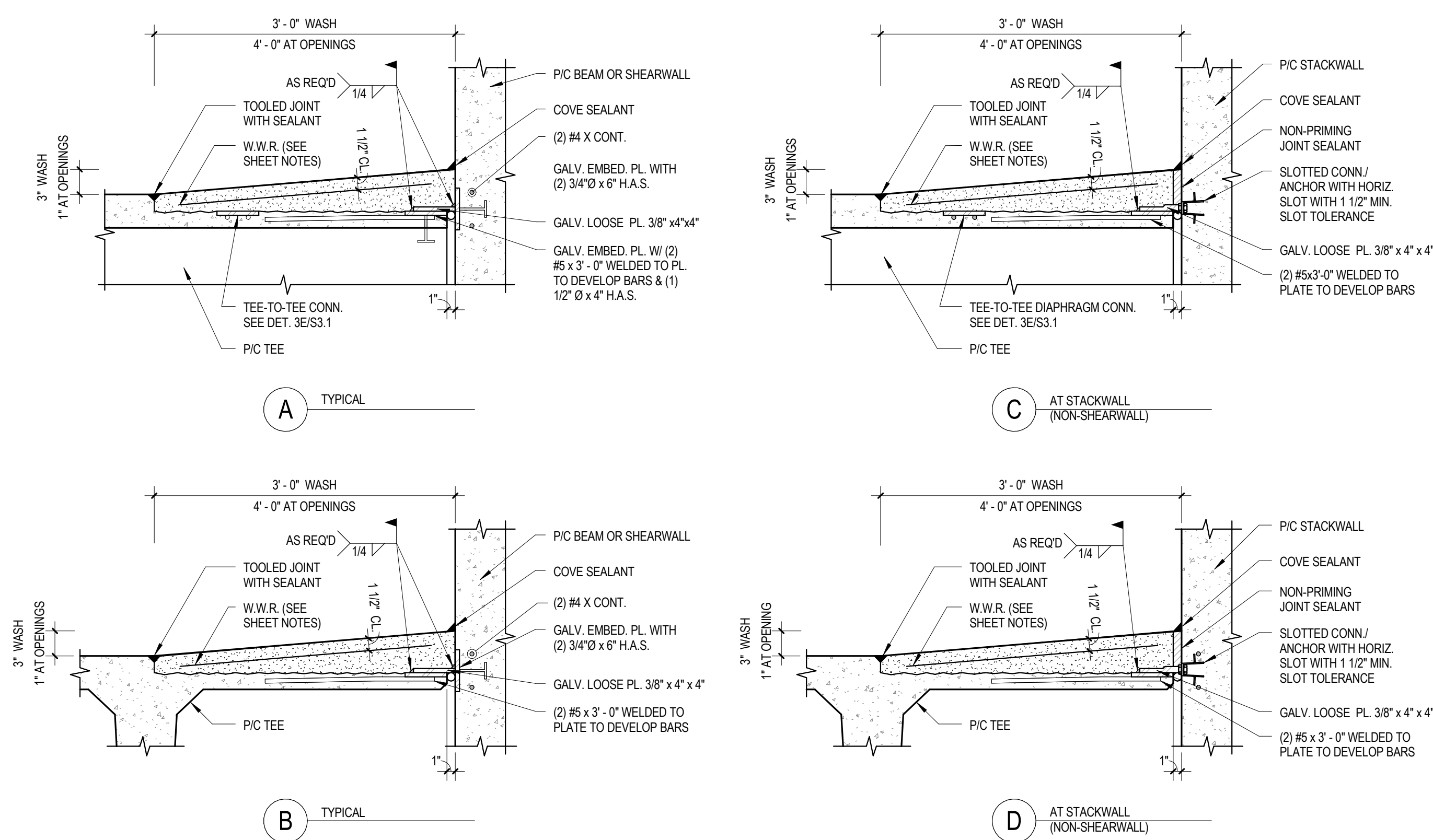
Project Title	VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1	Project Number	688-345
Location	50 IRVING ST. N.W. WASHINGTON, D.C.	Building Number	-
Date	02/16/15	Checked	NCA
		Drawn	BSS
		Drawing Number	S2.3
			Dwg. 53 of 89

Office of
Construction
and Facilities
Management

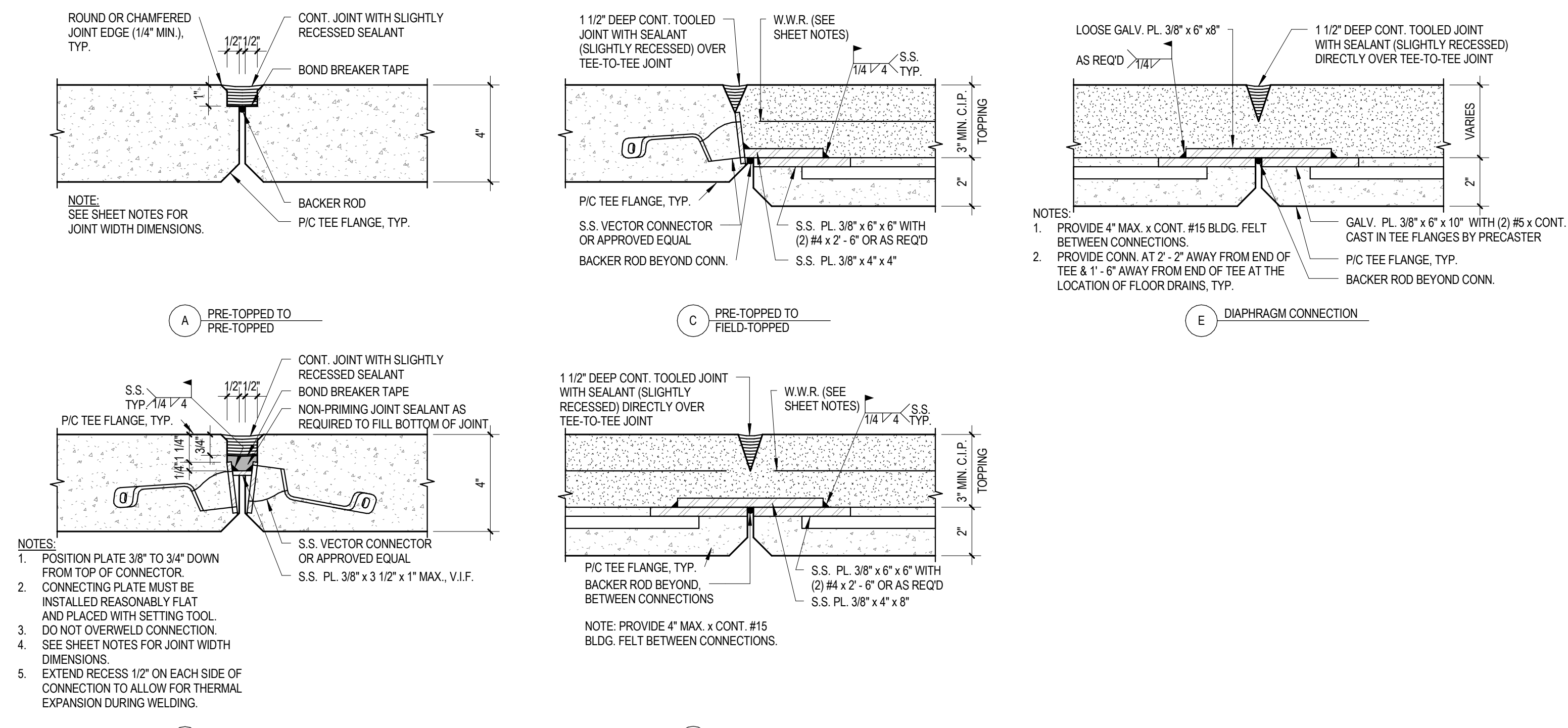
Department of
Veterans Affairs



01 PRECAST TEE DETAILS
1/2" = 1'-0"



02 TEE-TO-WALL & TEE-TO-BEAM CONNECTION DETAILS
1" = 1'-0"



03 TEE-TO-TEE CONNECTION DETAILS
3/8" = 1'-0"

- PRECAST TEE SHEET NOTES:**
- PRECAST MEMBERS & CONNECTIONS SHALL BE PERFORMANCE DESIGNED BY PRECASTER IN ACCORDANCE WITH THE CRITERIA DEFINED IN THE PRECAST SPECIFICATIONS AND DETAILS SHOWN ON DRAWINGS.
 - CONCRETE STRENGTH SHALL BE PROVIDED AS FOLLOWS:
 - $f_c = 3500$ PSI MIN. AT RELEASE
 - $f_c = 5500$ PSI MIN. AT 28 DAYS
 - INITIAL PULLING FORCE SHALL BE 31 KIPS PER 12" x 270 KSI STRAND.
 - PROVIDE MINIMUM SHEAR REINFORCEMENT OF 0.090 IN/FT FOR FIRST 5'-0" FROM EACH END OF TEE IF FULL SCALE LOAD TEST RESULTS ARE ACCEPTABLE TO ENGINEER. PROVIDE ADDITIONAL SHEAR REINFORCEMENT AT TEE-TO-TEE CONNECTION AS REQUIRED BY PERFORMANCE DESIGN.
 - PROVIDE TEE-TO-BEAM OR TEE-TO-WALL CONNECTIONS PER DETAIL 353.1 AS FOLLOWS:
 - AT EACH TEE STEM FOR CONNECTIONS TO BEAMS, GIRDERS, AND WALLS.
 - AT MIDPOINT BETWEEN STEMS FOR CONNECTIONS TO POCKETED SPANDRELS.
 - AT 6'-0" O.C. MAX. UNLESS SHORTER SPACING IS REQUIRED PER PERFORMANCE DESIGN FOR CONNECTIONS TO NONLOAD-BEARING SPANDRELS.
 - TEE-TO-SHEARWALL CONNECTIONS AS REQUIRED PER PERFORMANCE DESIGN.
 - TYPICAL TEE-TO-TEE CONNECTIONS PER DETAILS 353.1 SHALL BE SPACED AS FOLLOWS:
 - AT 4'-0" O.C. CENTERED AT DRIVE AISLES.
 - REMAINING AT 8'-0" O.C. AT PARKING STALLS.
 - COORDINATE REQUIRED EXTENDED DAPS IN TEES FOR HORIZONTAL PIPE RUNS WITH M.E.P. DRAWINGS. MAINTAIN REQUIRED HEADROOM CLEARANCE NOTED ON STRUCTURAL FLOOR PLANS. SEE DET. 553.3 FOR ADDITIONAL INFO.
 - TEE-TO-TEE JOINT WIDTHS SHALL BE AS FOLLOWS:
 - AT FLAT AREAS: 1/4" (WITH +1/2"-0" TOLERANCE)
 - AT RAMP AREAS: 3/8" (WITH +1/2"-0" TOLERANCE)

- C.I.P. WASH / TOPPING SHEET NOTES:**
- PROVIDE W.W.R. 6x6-W4x4 IN C.I.P. WASHES & TOPPING UNLESS LARGER W.W.R. IS REQUIRED BY PRECASTER PERFORMANCE DESIGN.
 - MINIMUM DIAPHRAGM REINFORCEMENT TO BE CAST IN ENDS OF TEES SHALL BE (2)#5CONT. LONGITUDINAL BARS. SEE DET. 353.1 FOR EMBEDDED DIAPHRAGM CONNECTION. PRECASTER SHALL BE RESPONSIBLE FOR THE FINAL DESIGN AND SHALL SUPPLY LOOSE DIAPHRAGM / COLLECTOR REINFORCEMENT FOR THE PROJECT AS REQUIRED BY THE PERFORMANCE DESIGN.
 - DIAPHRAGM / COLLECTOR REINFORCEMENT PARALLEL TO THE TEE SPAN SHALL BE PROVIDED BY REINFORCEMENT INSIDE TEE FLANGES AND PROPER TEE-TO-GIRDER CONNECTION PER PRECASTER PERFORMANCE DESIGN.
 - PROVIDE TRANSVERSE TOOLED JOINT WITH SEALANT OVER EACH CONNECTION ALONG FULL LENGTH OF C.I.P. WASH. SEE SHEET 50 FOR ADDITIONAL INFORMATION.
 - APPLY BONDING AGENTS OVER RECESSED TEE FLANGE SURFACES PRIOR TO POURING C.I.P. POURSTRIPS, WASHES, & TOPPING.

Revisions:	Date	
4	100% Submission	2/16/15
3	95% Submission	8/28/14
2	65% Submission	8/07/14
1	35% Submission	4/15/14

CONSULTANTS:	
ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210	PARKING CONSULTANT Tim Haas & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422
STRUCTURAL ENGINEER Tim Haas & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422	MEP ENGINEER DCS Infrastructure, Inc. 3249 Route 112, Suite 1B Medford, NY 11763
COST ESTIMATOR DMS Construction Consulting Services, Inc. 550 Satterly Place, Suite 300 Columbia, MD 21044	CIVIL ENGINEER KCI Technologies, Inc. 936 Rogelovick Road Sparks, MD 21152

SEAL:

ARCHITECT/ENGINEERS:

Melville Thomas Architects, Inc.
ARCHITECTURE & PLANNING

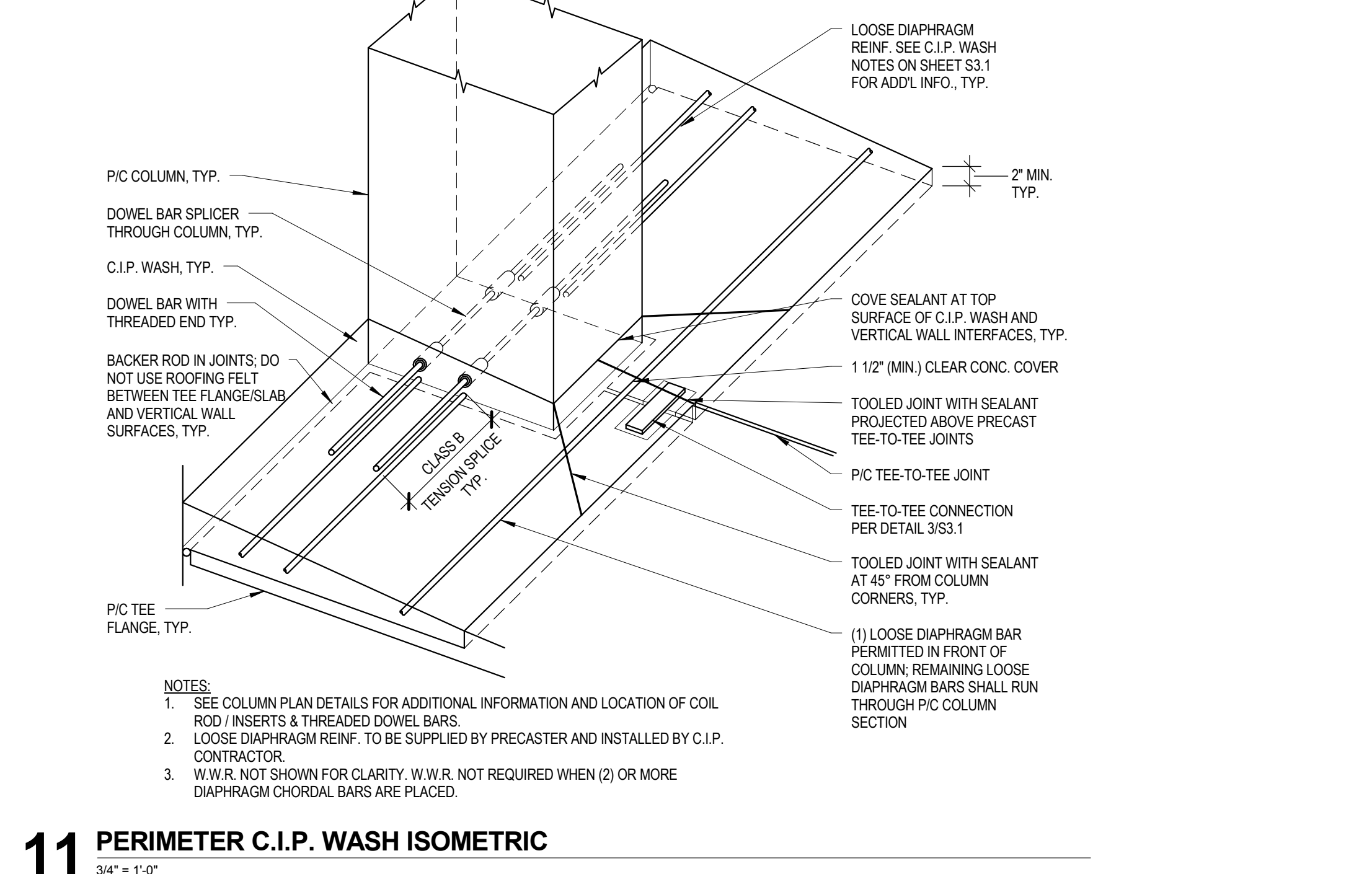
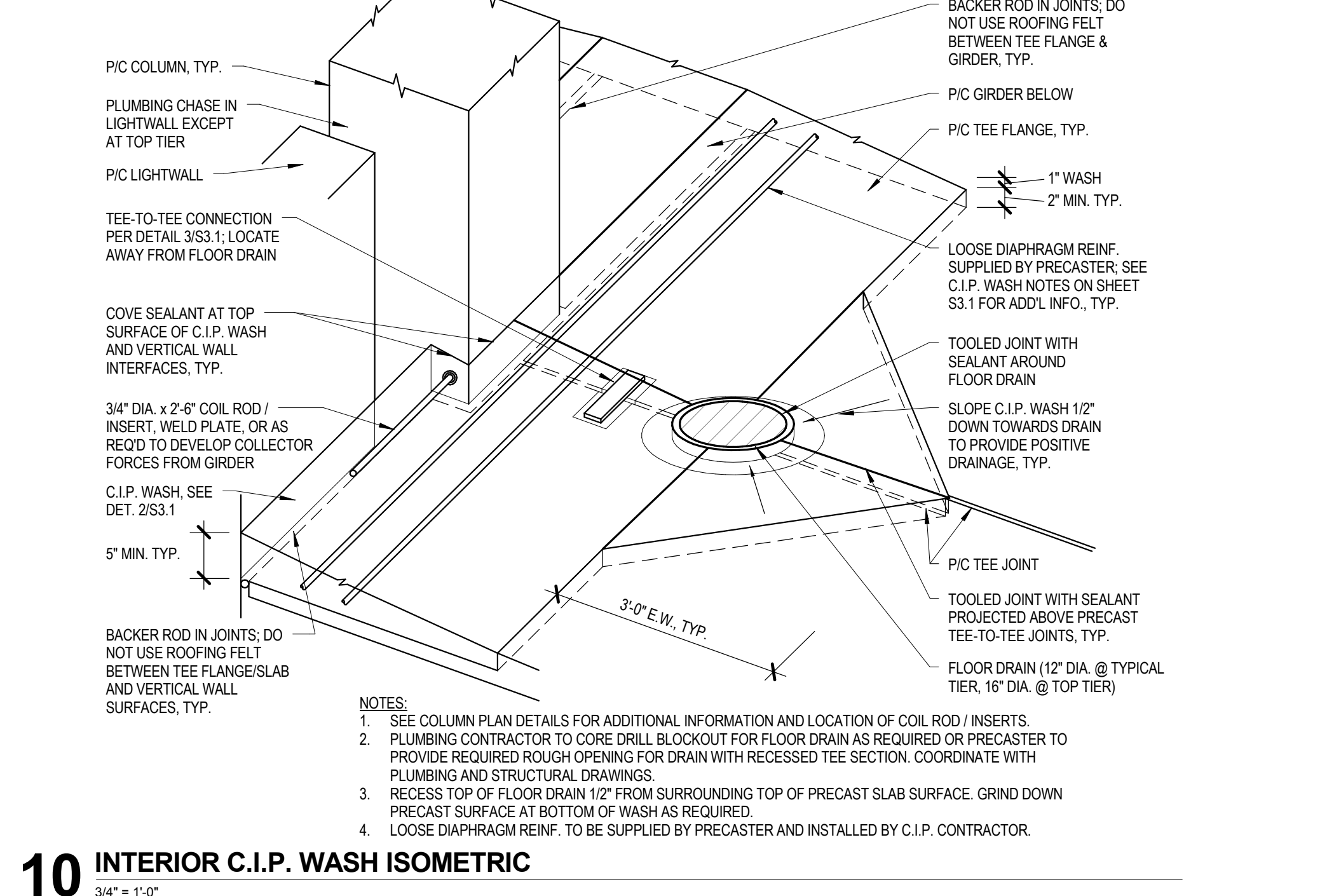
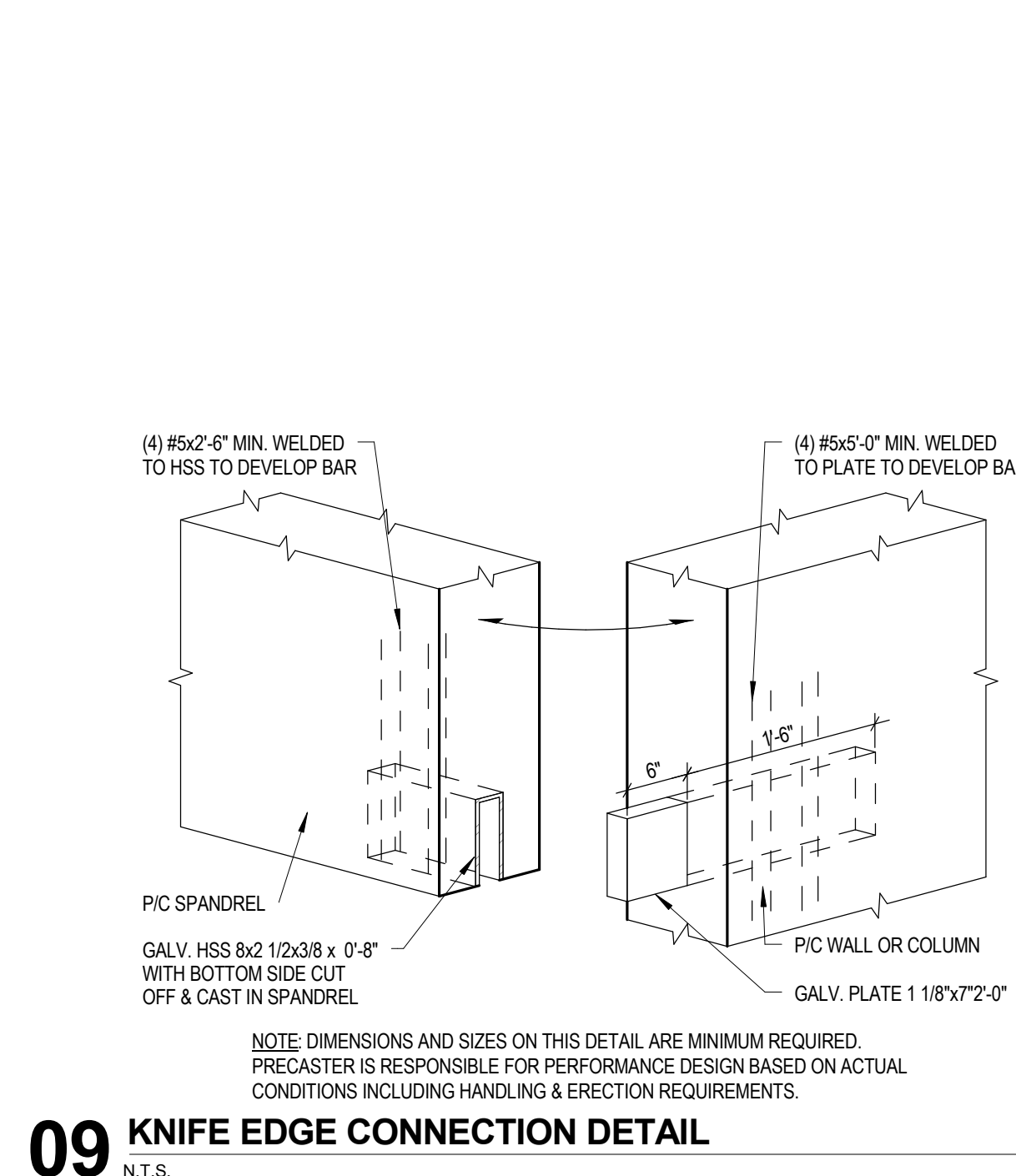
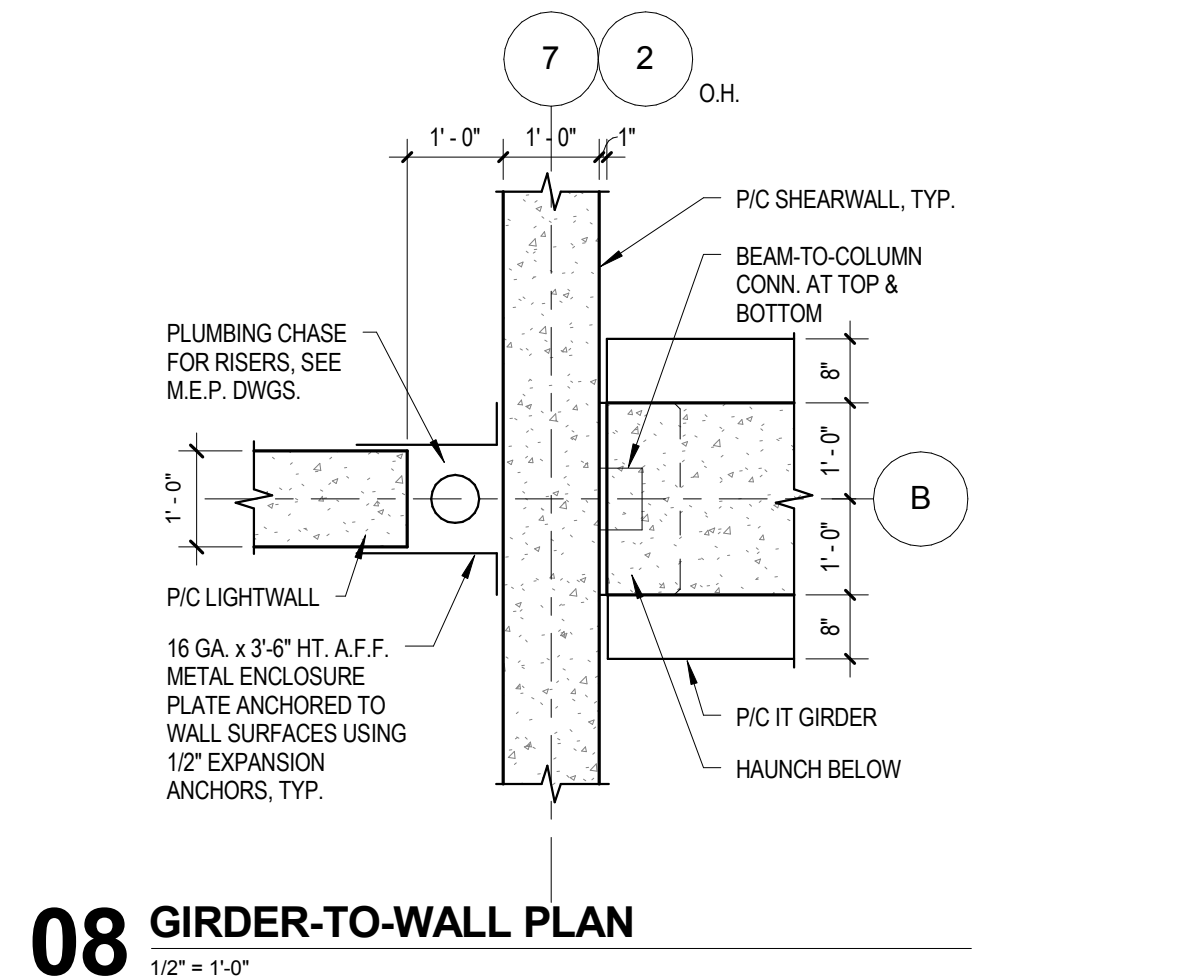
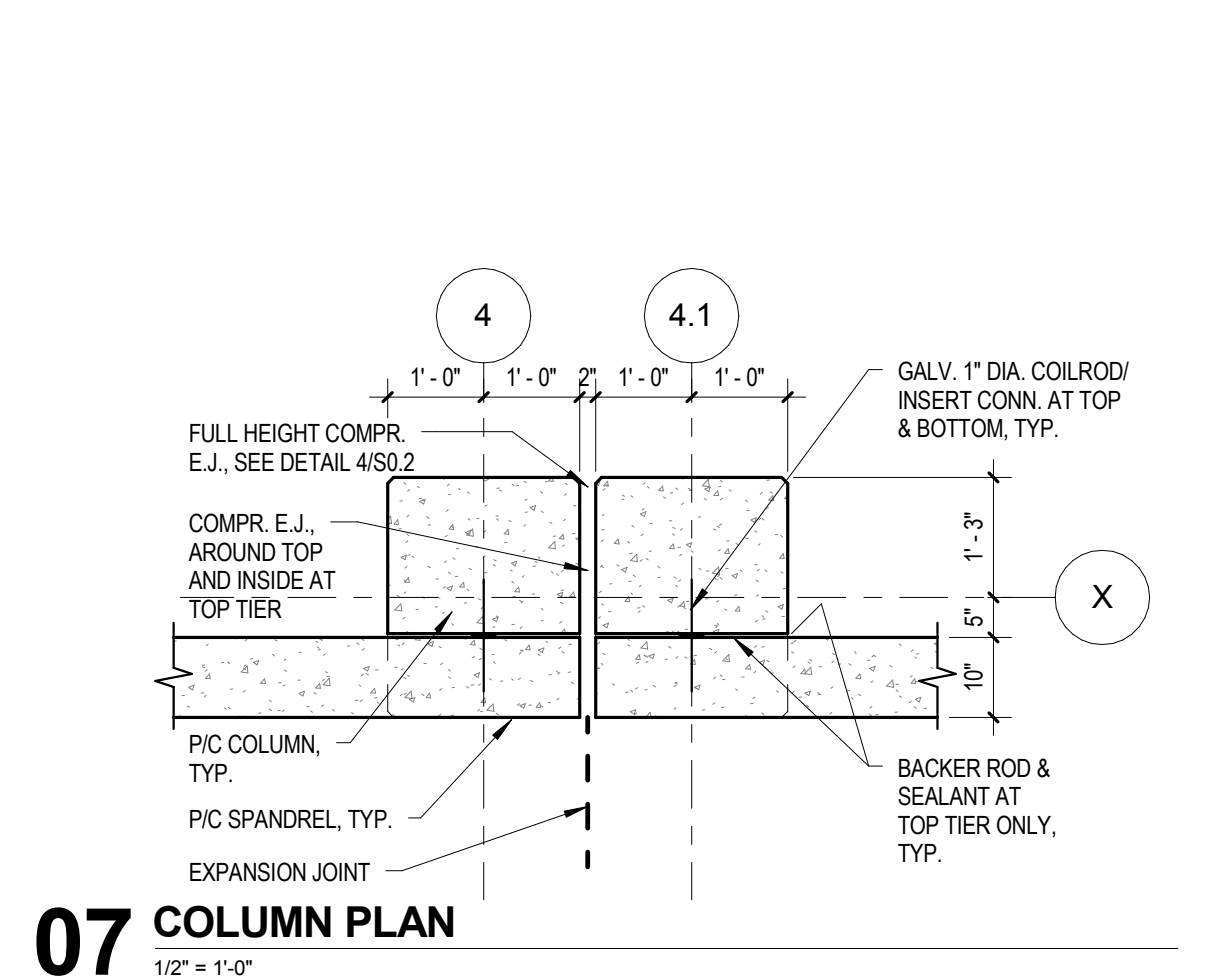
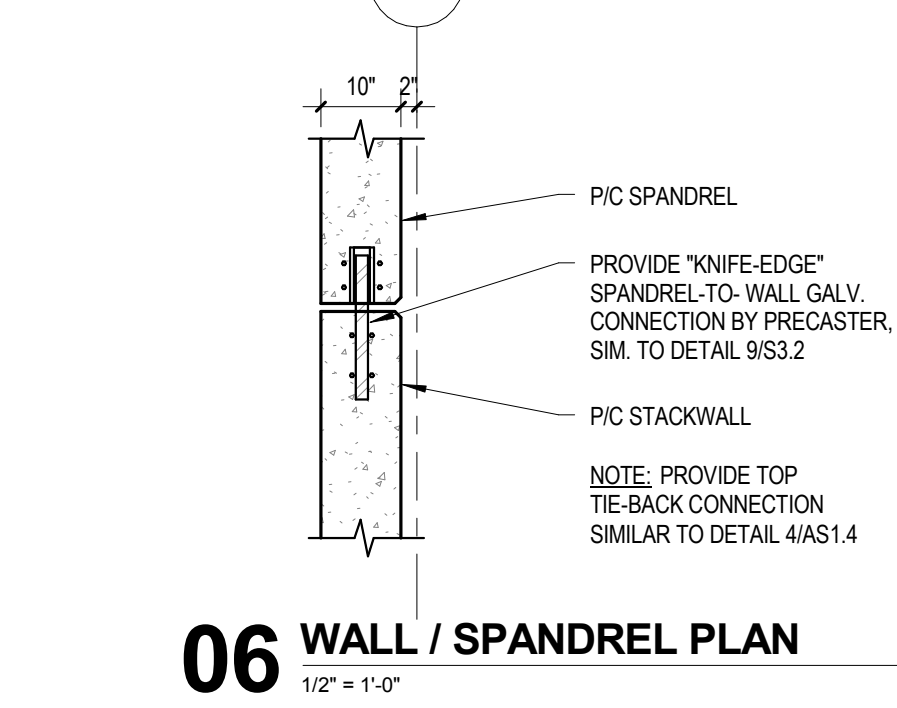
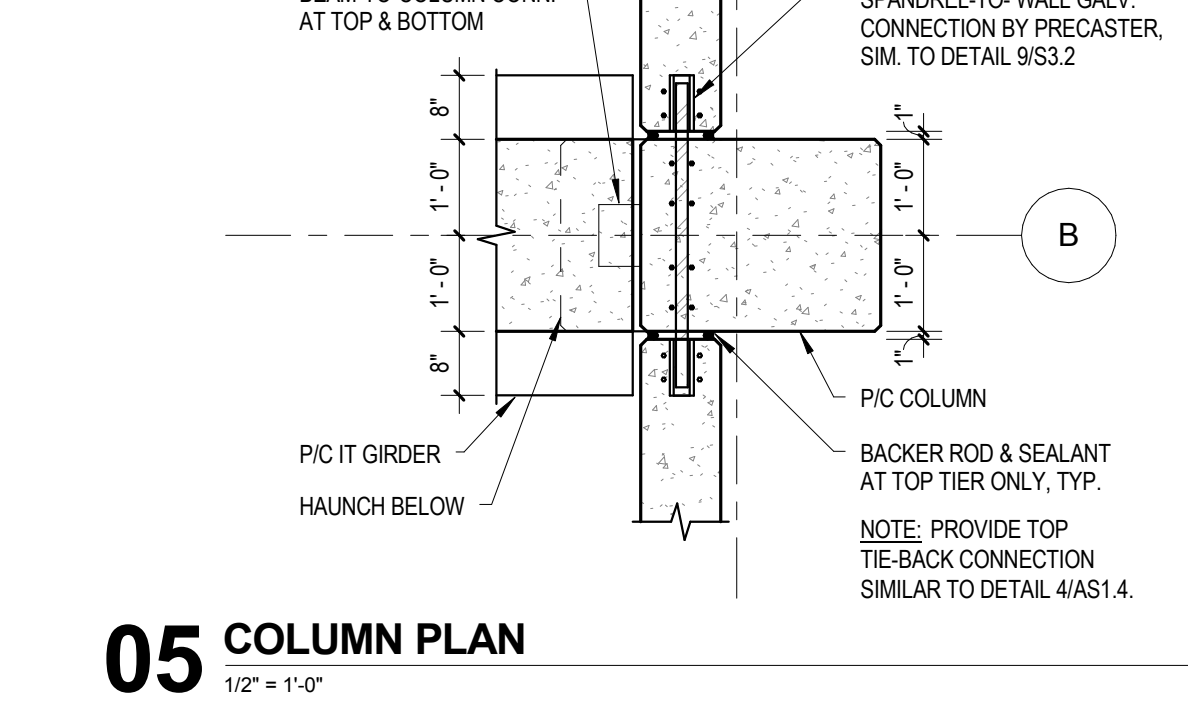
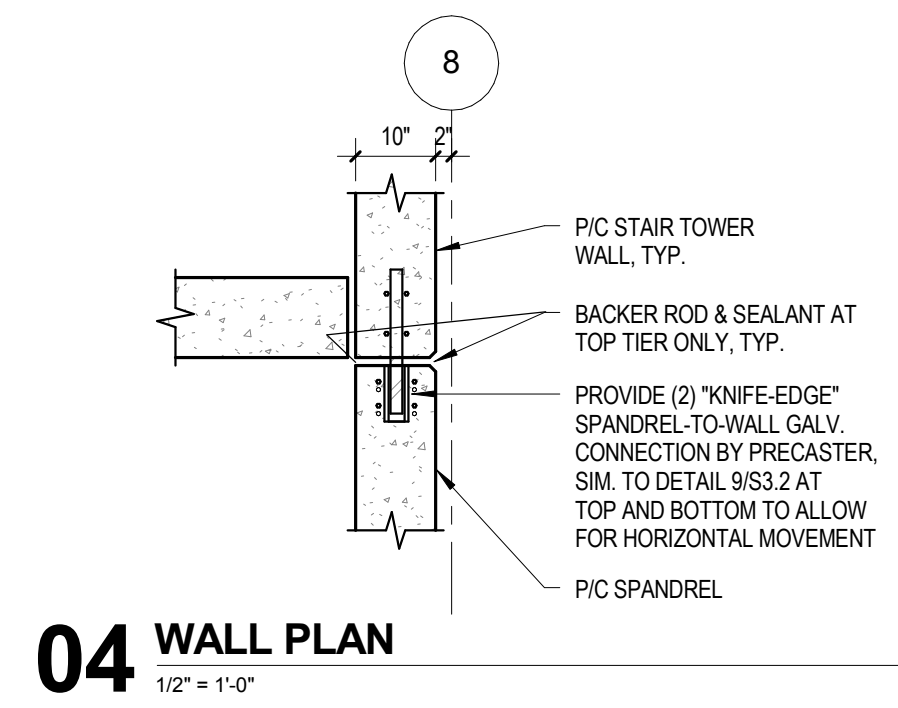
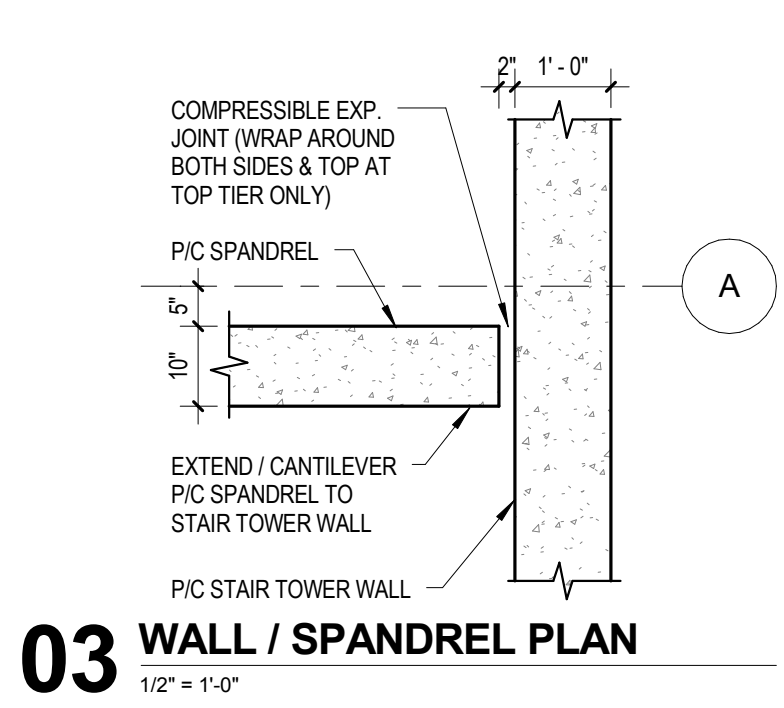
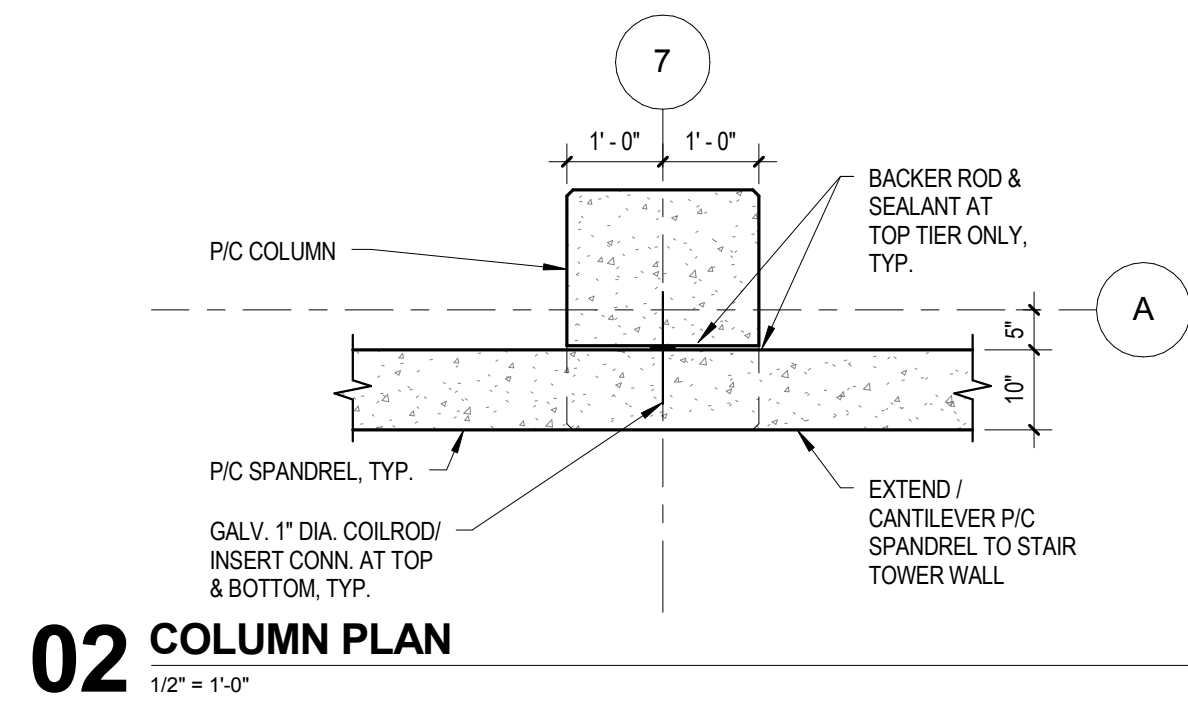
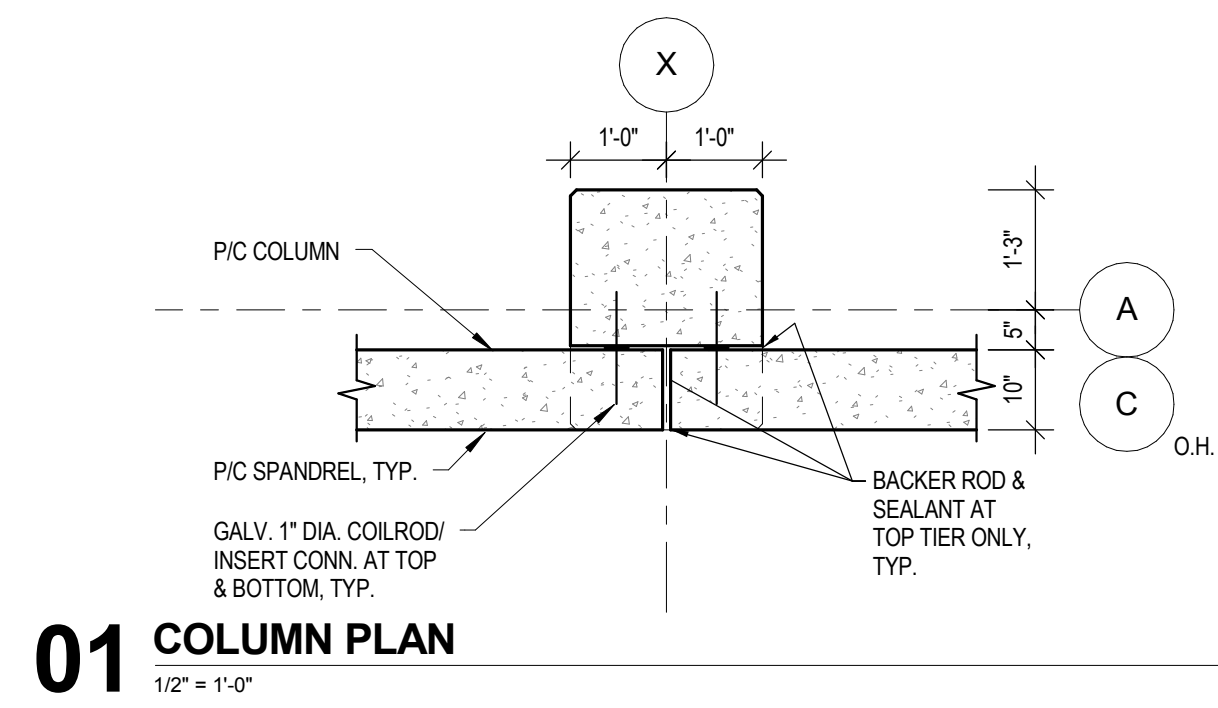
400 Wyndhurst Ave., Suite 315 Baltimore, MD 21210
T: 410.433.4400 F: 410.433.4719
www.mtarx.com

Drawing Title
PRECAST TEE DETAILS
Approved: Project Director

Project Title	Project Number
VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1	688-345
Location 50 IRVING ST. N.W. WASHINGTON, D.C.	Building Number -
Date 02/16/15	Drawn BSS
Checked NCA	Dwg. 54 of 89

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs



PRECAST COLUMN NOTES:

1. PRECAST COLUMNS (INCLUDING CONNECTIONS, HAUNCHES, ETC.) SHALL BE PERFORMANCE DESIGNED BY PRECASTER IN ACCORDANCE WITH THE CRITERIA IN SPECIFICATION SECTION 034000 & DETAILS SHOWN ON DRAWINGS.
2. TYPICAL U.O.C. IS 4800 PSI.
3. ALL COLUMN TIES SHALL BE #4@16" (MAX.) O.C. U.N.O.
4. PROVIDE (3) #4 ADDITIONAL COLUMN TIES @ 4" O.C. AT TOP & BOTTOM OF COLUMNS AND BELOW BEARING POCKETS.
5. SEE DETAIL 2/S1 FOR PRECAST COLUMN BASE PLAN DETAIL.
6. USE 3/4"x2'-0" COIL RODS AT TYPICAL COIL ROD INSERT CONNECTIONS TO PIC COLUMNS. USE 3/4"x1'-0" COIL RODS AT FLOOR BRAN LOCATIONS.

Revisions:	Date	
4	100% Submission	2/16/15
3	95% Submission	8/28/14
2	65% Submission	8/07/14
1	35% Submission	4/15/14

CONSULTANTS:	
ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210	PARKING CONSULTANT Tim Haas & Associates, Inc. 650 Township Line Road, Suite 100 Blue Bell, PA 19422
STRUCTURAL ENGINEER Tim Haas & Associates, Inc. 650 Township Line Road, Suite 100 Blue Bell, PA 19422	MEP ENGINEER DCS Infrastructure, Inc. 3249 Route 112, Suite 1B Medford, NY 11763
COST ESTIMATOR DMS Construction Consulting Services, Inc. 5550 Sterrett Place, Suite 300 Columbia, MD 21044	CIVIL ENGINEER KGI Technologies, Inc. 936 Roggenbuck Road Sparks, MD 21152

SEAL:

ARCHITECT/ENGINEERS:

Melville Thomas Architects, Inc.
ARCHITECTURE & PLANNING

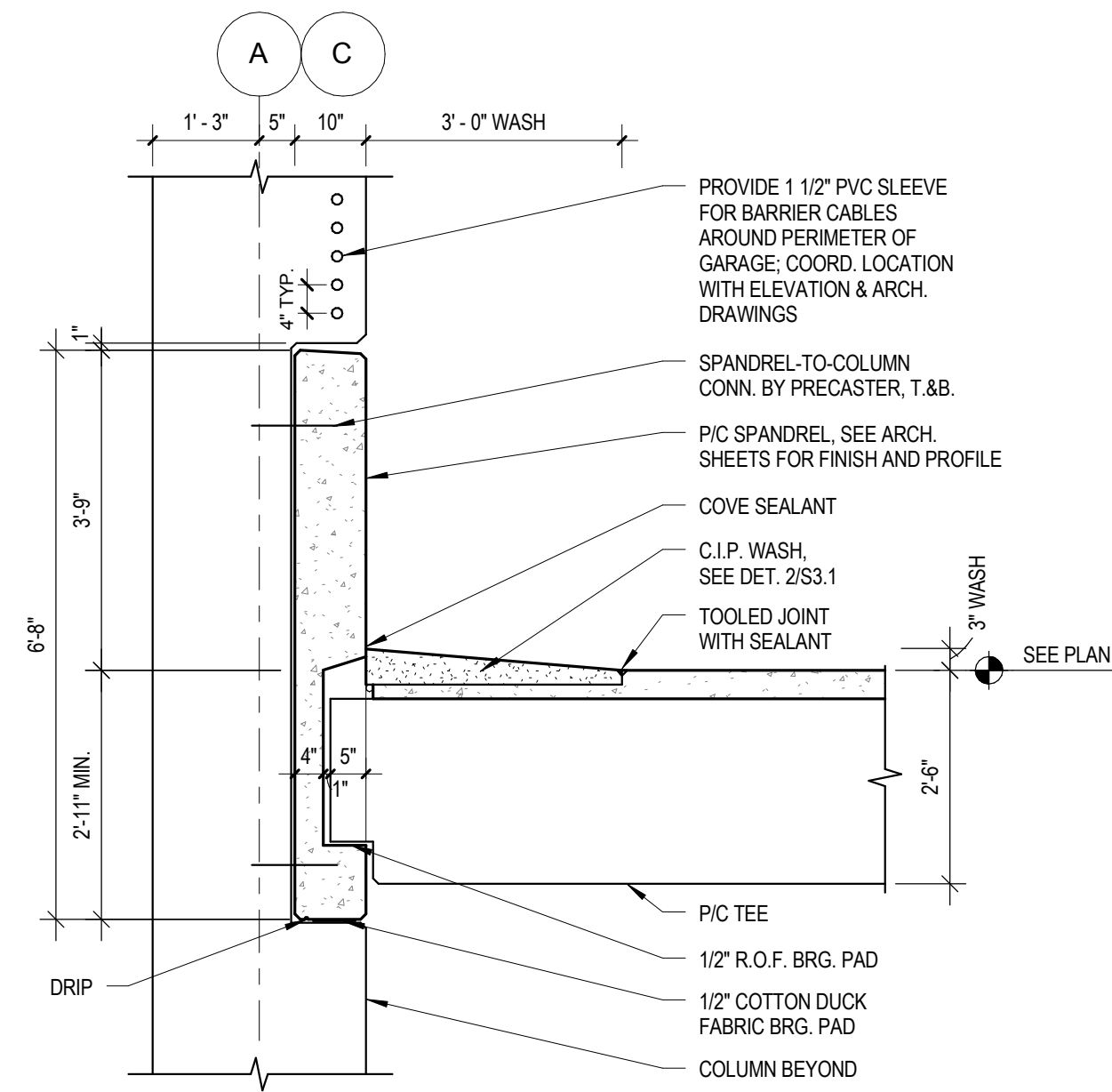
400 Wyndhurst Ave., Suite 315 Baltimore, MD 21210
T: 410.423.4400 F: 410.423.4719
www.mtarx.com

Drawing Title PRECAST COLUMN PLAN DETAILS
Approved: Project Director

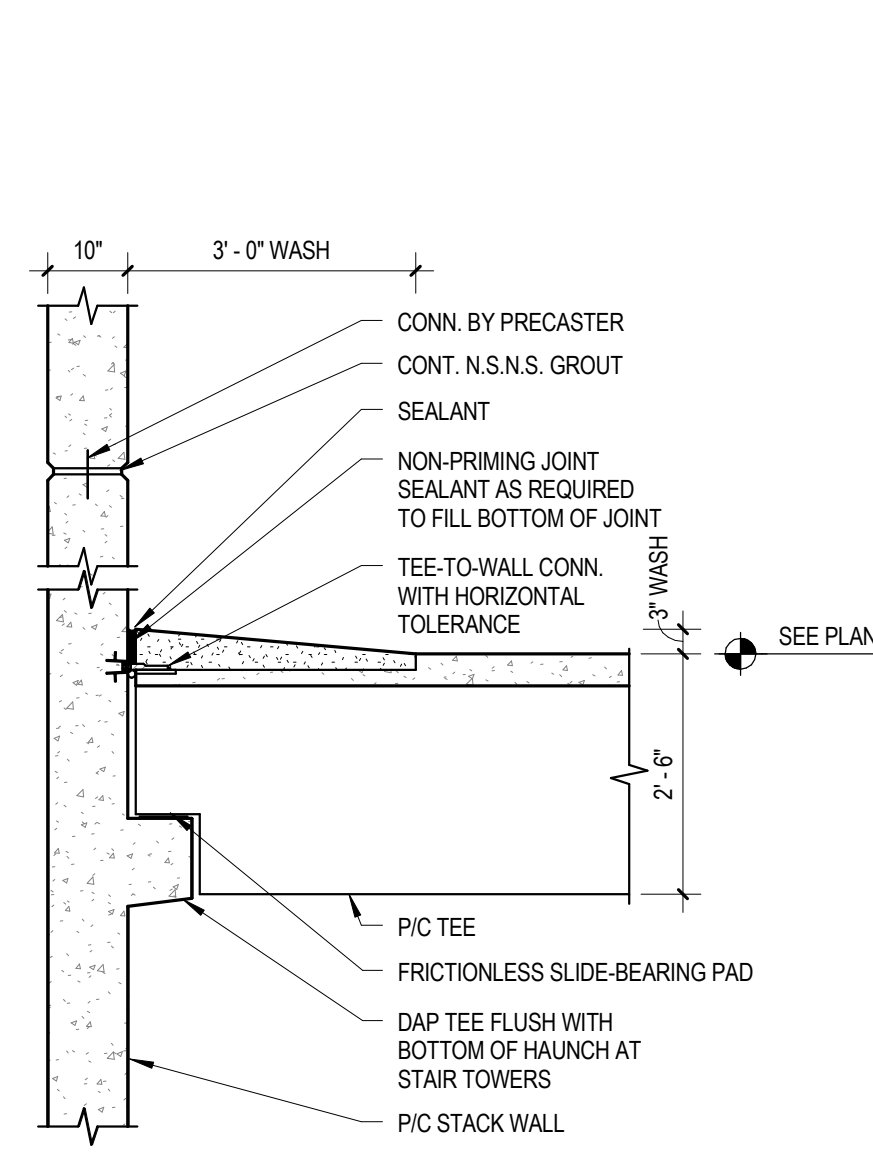
Project Title VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1	Project Number 688-345
Location 50 IRVING ST. N.W. WASHINGTON, D.C.	Building Number -
Date 02/16/15	Drawing Number S3.2
Checked NCA	Drawn BSS
Dwg. 55 of 89	

Office of
Construction
and Facilities
Management

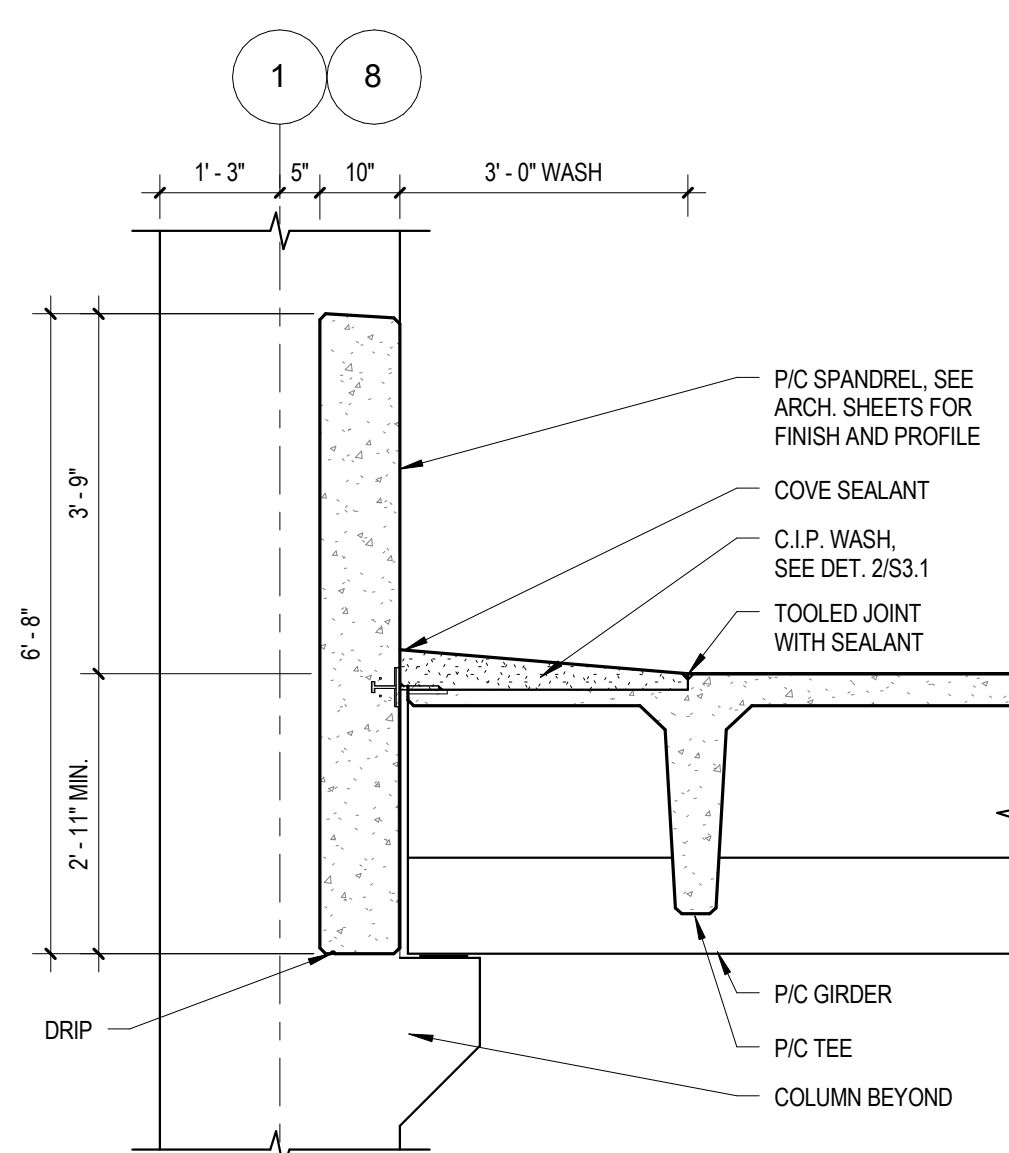
Department of
Veterans Affairs



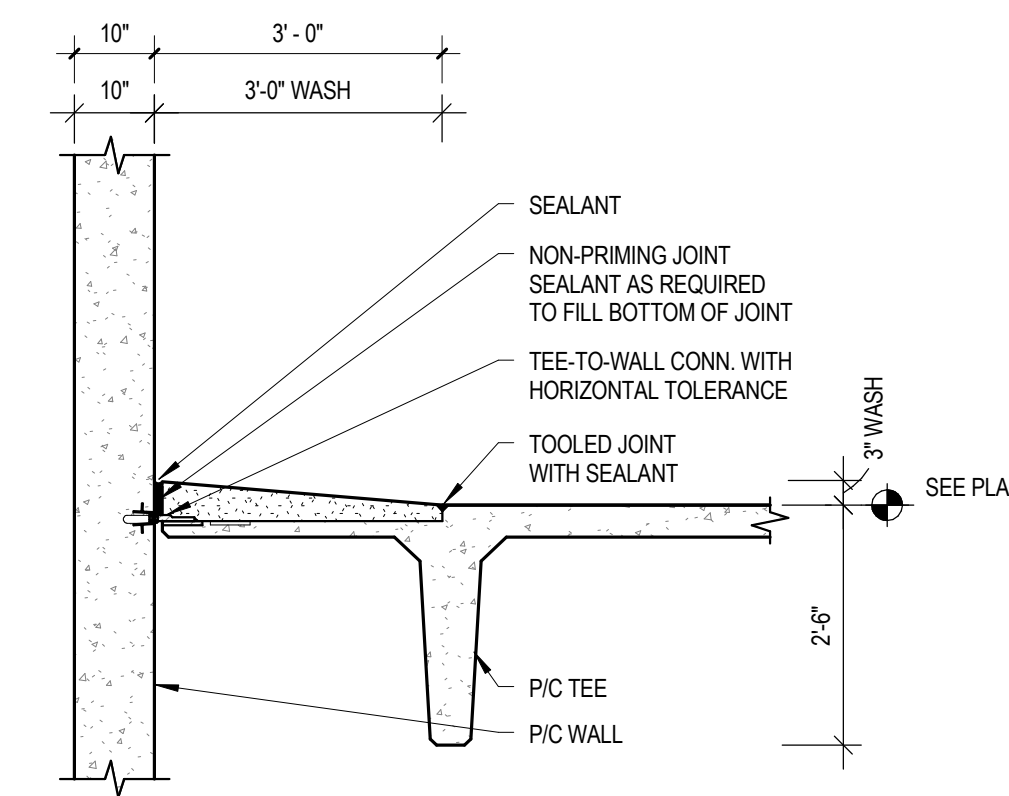
01 SPANDREL SECTION
1/2" = 1'-0"



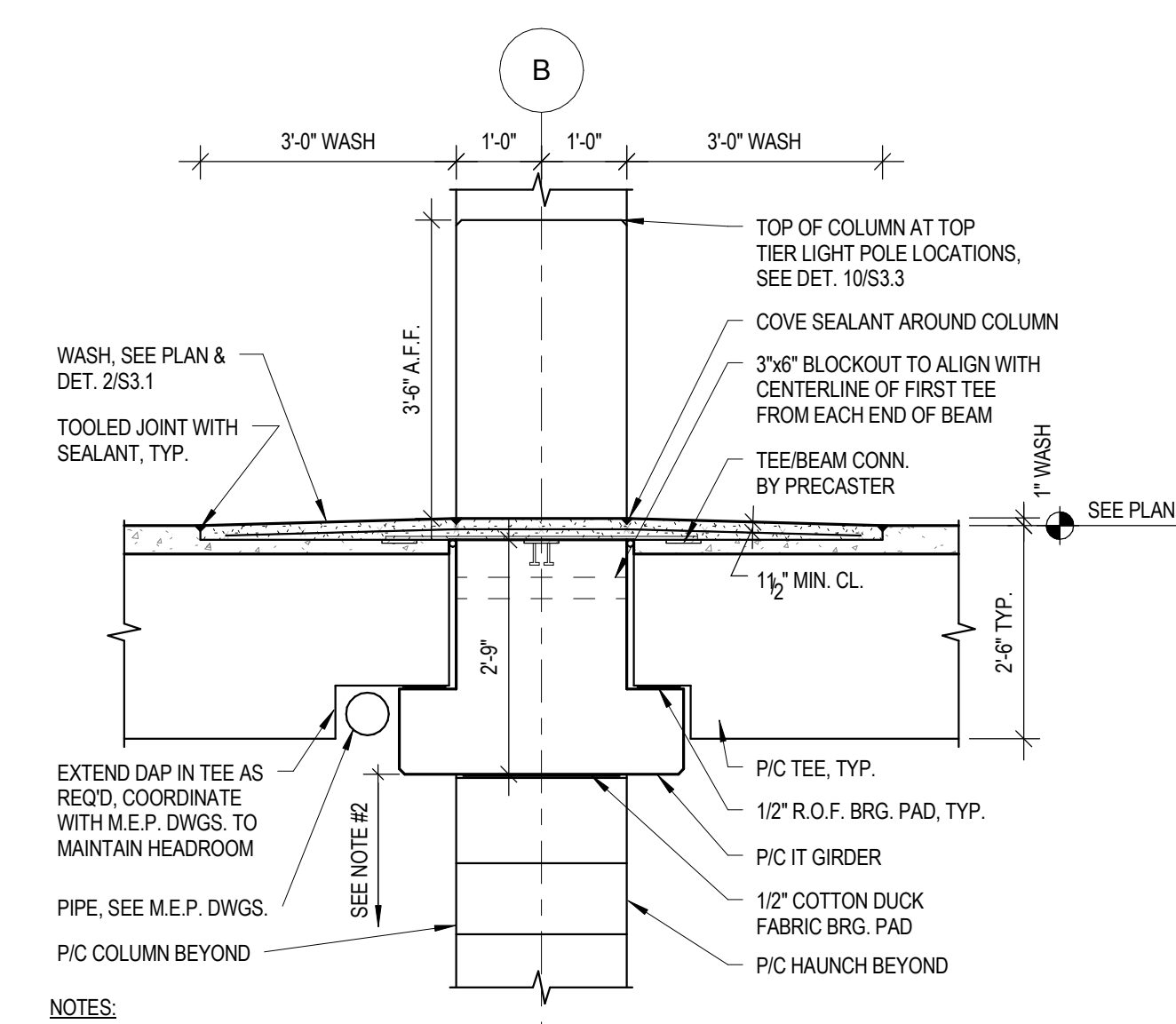
02 WALL SECTION
1/2" = 1'-0"



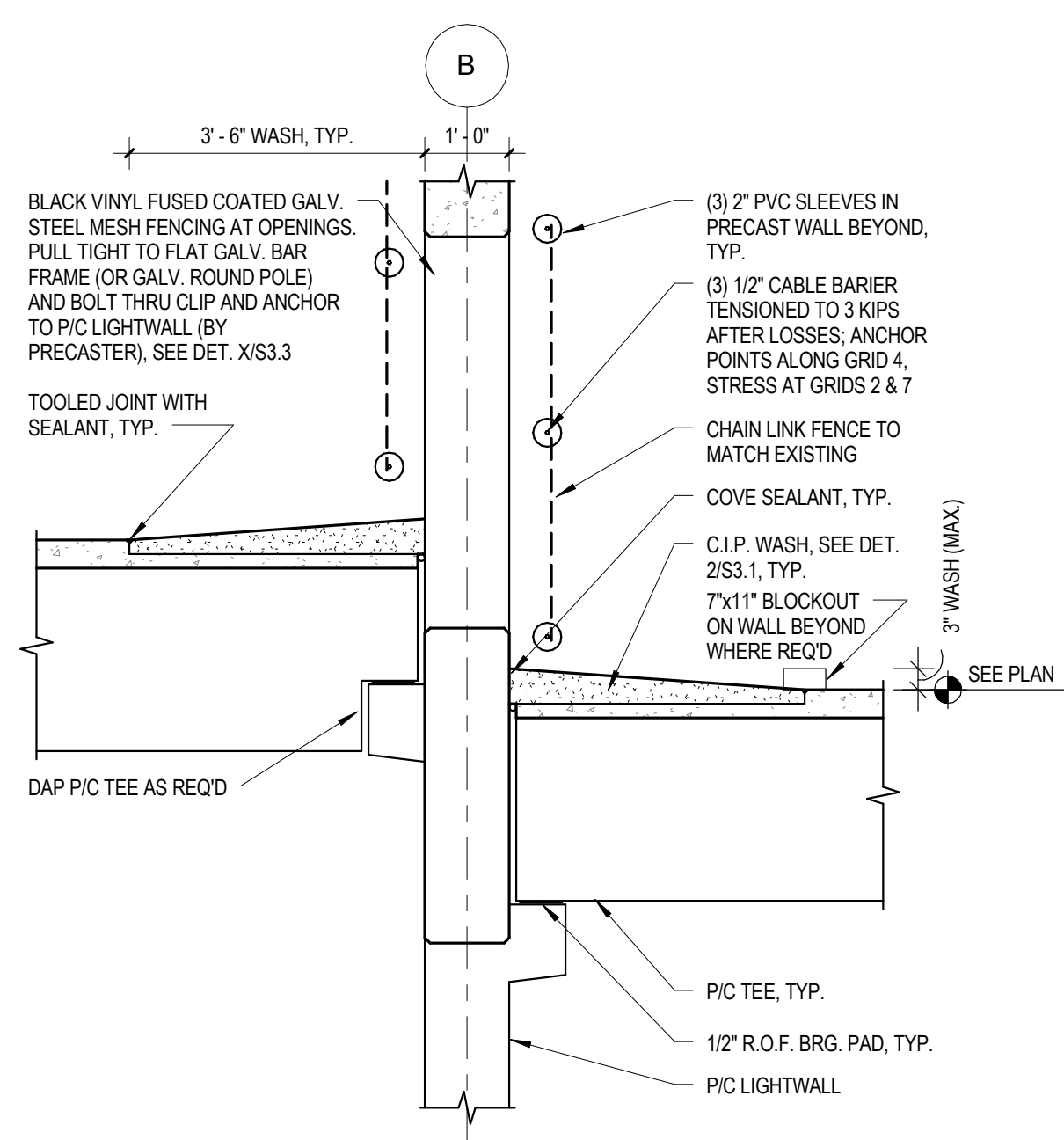
03 SPANDREL SECTION
1/2" = 1'-0"



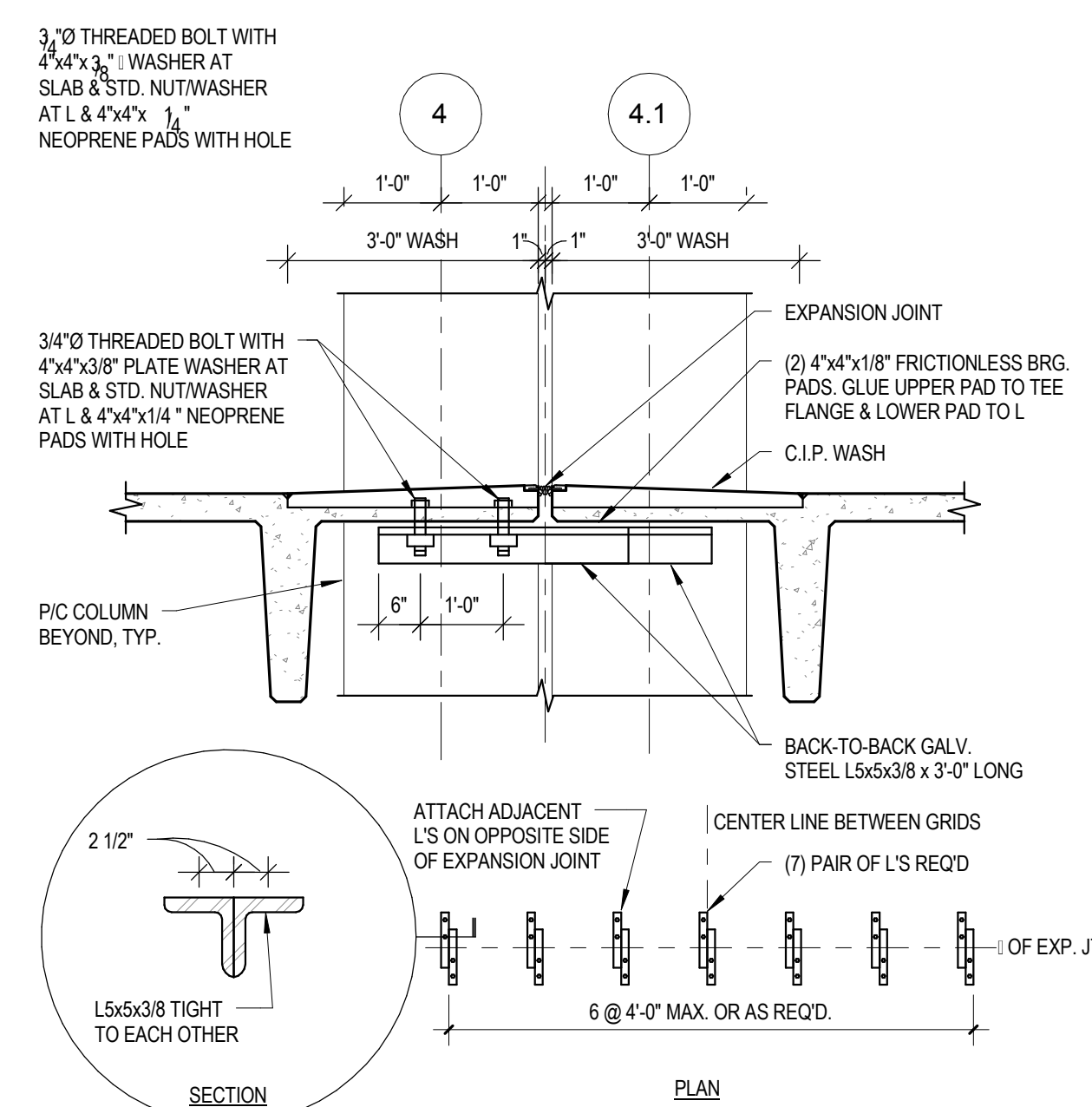
04 WALL SECTION
1/2" = 1'-0"



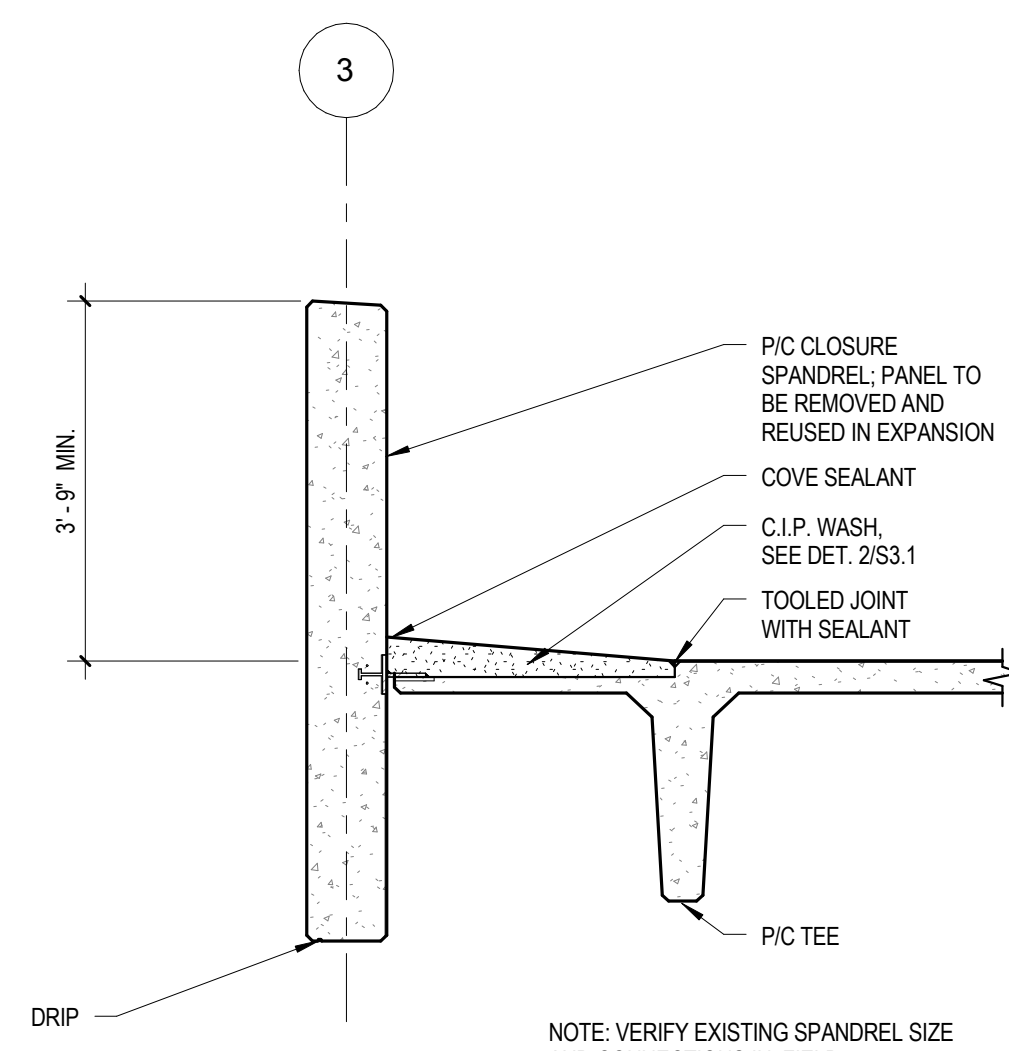
05 GIRDER SECTION
1/2" = 1'-0"



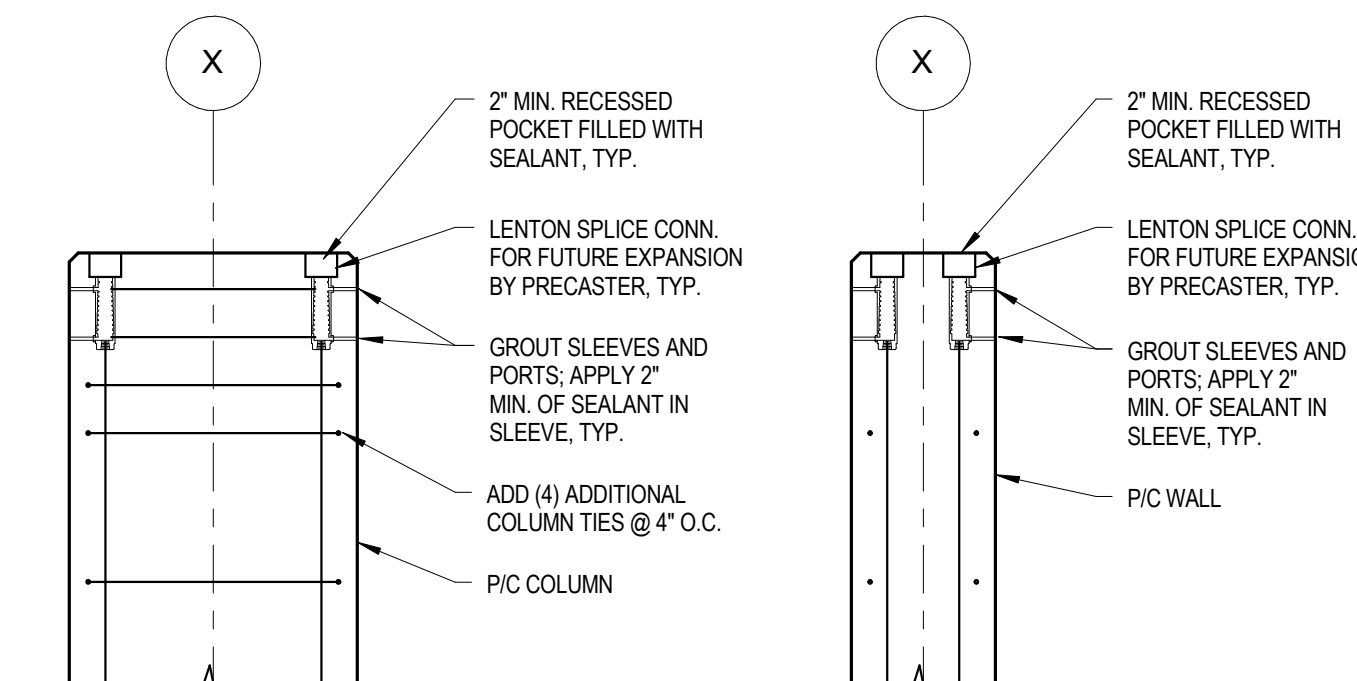
06 LIGHTWALL SECTION
1/2" = 1'-0"



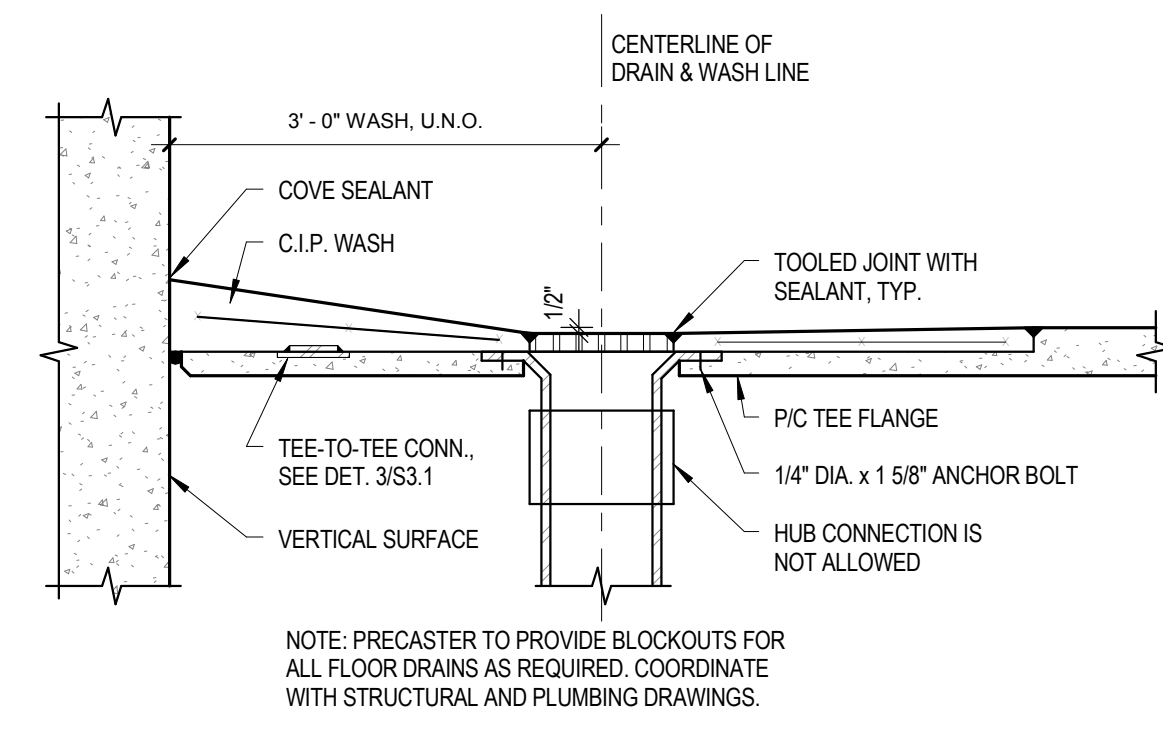
07 SHEAR TRANSFER DETAIL
1/2" = 1'-0"



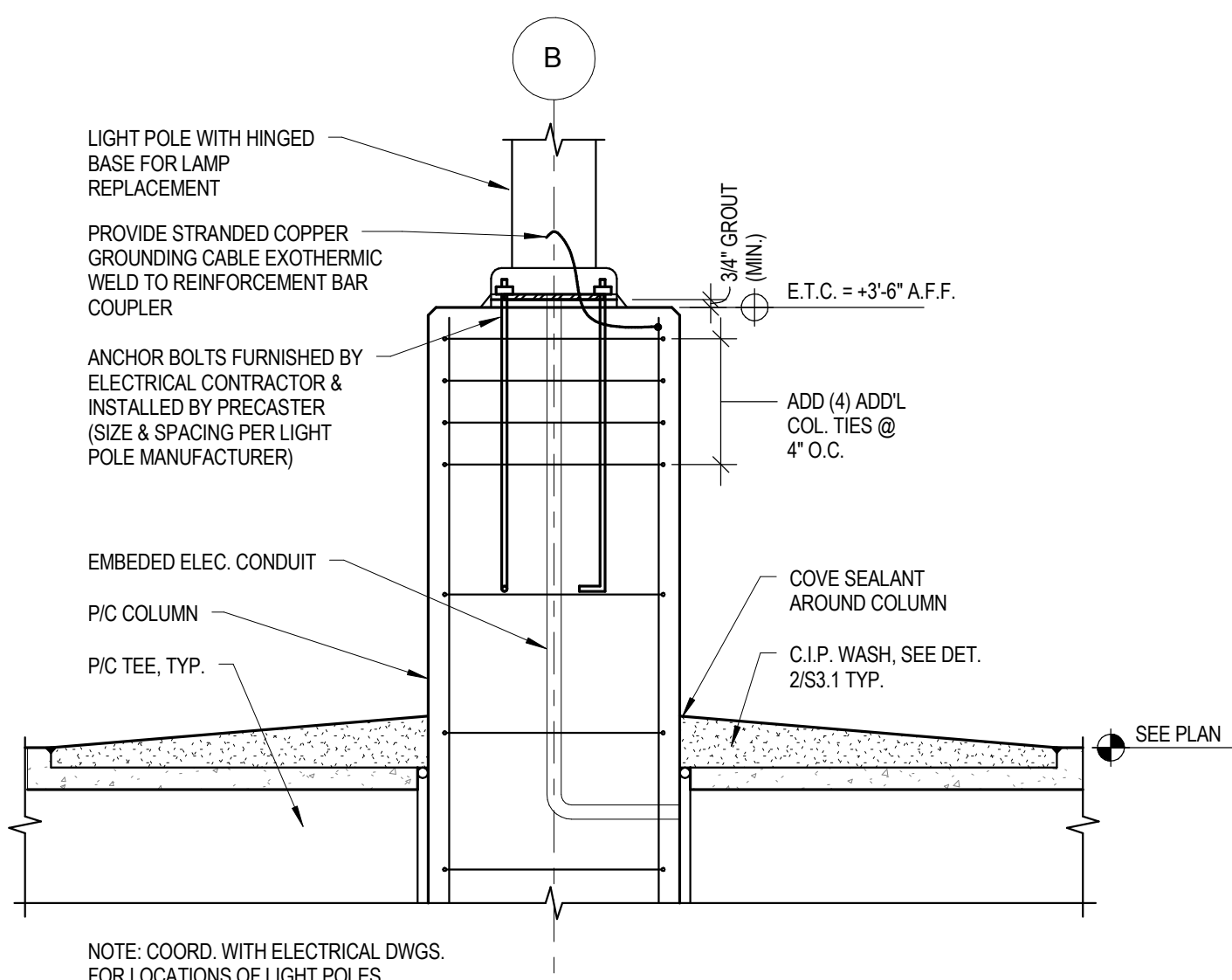
08 CLOSURE SPANDREL SECTION
1/2" = 1'-0"



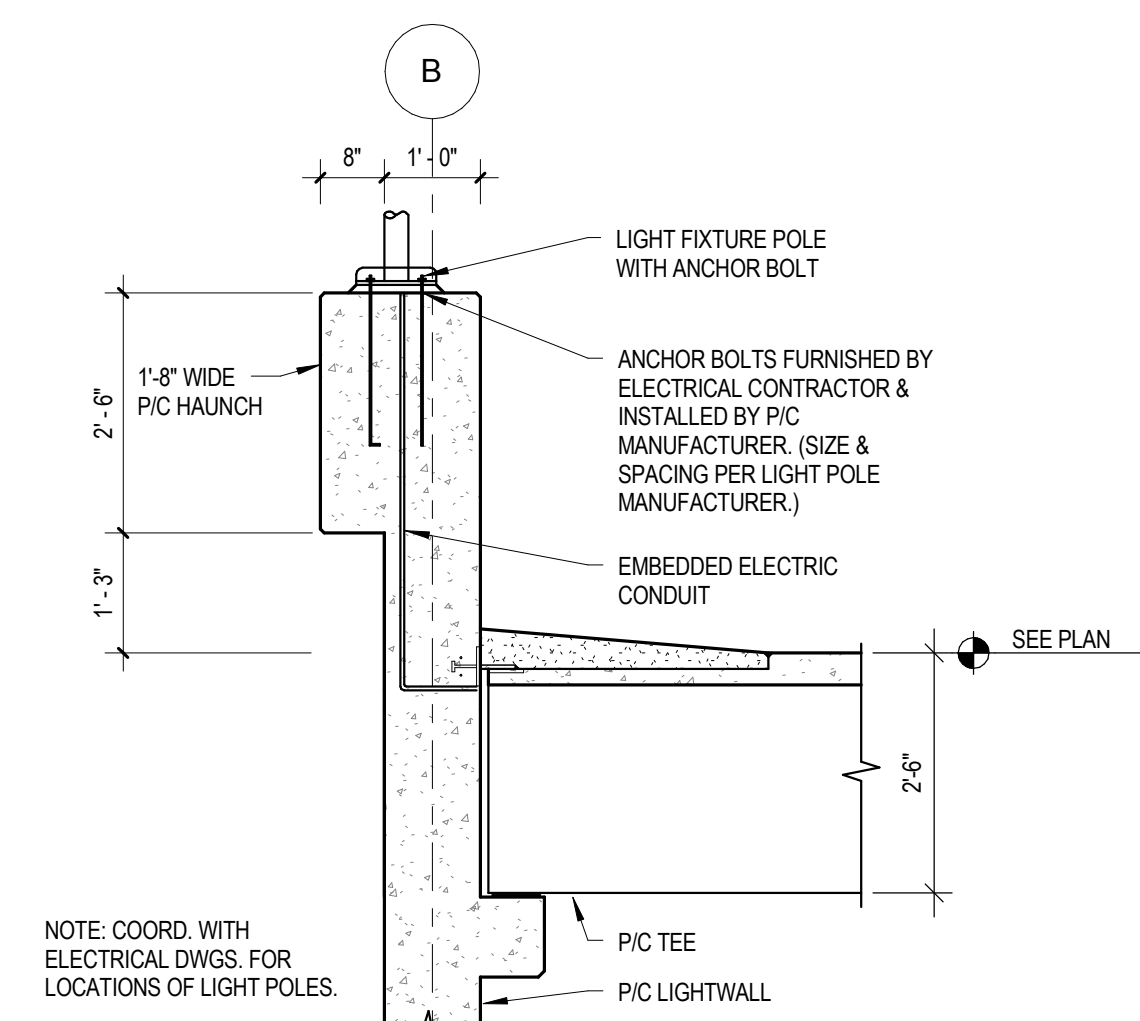
09 TYPICAL CONNECTION DETAIL FOR FUTURE EXPANSION
3/4" = 1'-0"



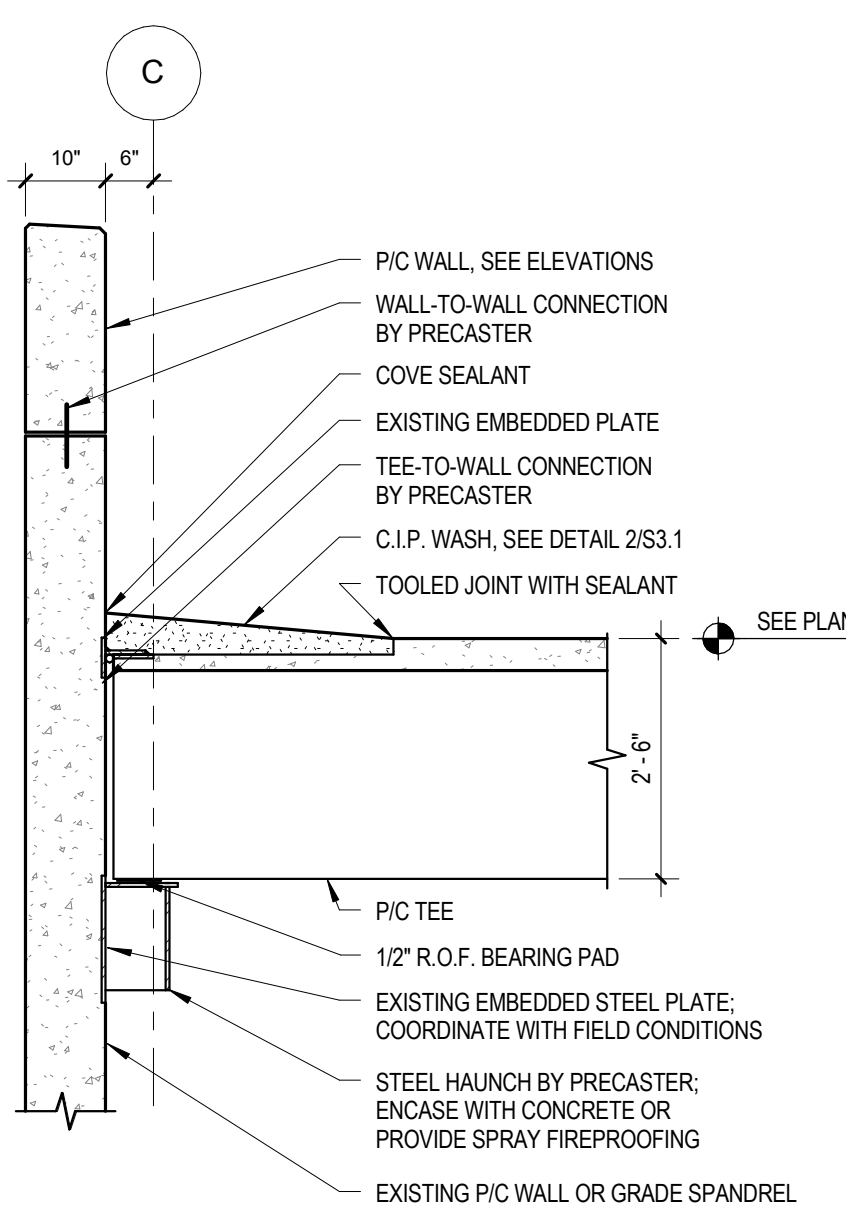
10 TYPICAL FLOOR DRAIN DETAIL
3/4" = 1'-0"



11 TYPICAL LIGHTPOLE SECTION AT COLUMN
3/4" = 1'-0"



12 TYPICAL LIGHTPOLE SECTION AT LIGHTWALL
1/2" = 1'-0"



13 WALL SECTION
1/2" = 1'-0"

CONSULTANTS:

ARCHITECT
Melville Thomas Architects, Inc.
600 Wyndhurst Avenue, Suite 315
Baltimore, MD 21210

STRUCTURAL ENGINEER
Tim Haas & Associates, Inc.
550 Township Line Road, Suite 100
Blue Bell, PA 19422

PARKING CONSULTANT
Tim Haas & Associates, Inc.
550 Township Line Road, Suite 100
Blue Bell, PA 19422

MEP ENGINEER
DCS Infrastructure, Inc.
3248 Route 112, Suite 1B
Medford, NY 11763

COST ESTIMATOR
DMS Construction Consulting Services, Inc.
5550 Sterrett Place, Suite 300
Columbia, MD 21044

CIVIL ENGINEER
KCI Technologies, Inc.
936 Roperbrook Road
Sparks, MD 21152

SEAL:

ARCHITECT/ENGINEERS:

Melville Thomas Architects, Inc.
ARCHITECTURE & PLANNING

TimHaas

400 Wyndhurst Ave., Suite 315 Baltimore, MD 21210
T: 410.433.4400 F: 410.433.4719
www.mtarx.com



Drawing Title
PRECAST SECTION DETAILS

Approved: Project Director

Project Title
VA MEDICAL CENTER
EXPAND VISITOR/PATIENT
PARKING GARAGE - PHASE 1

Location
50 IRVING ST. N.W. WASHINGTON, D.C.

Date
02/16/15

Checked
NCA

Drawn
BSS

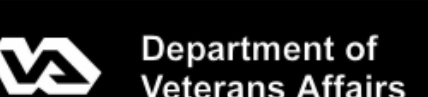
Project Number
688-345

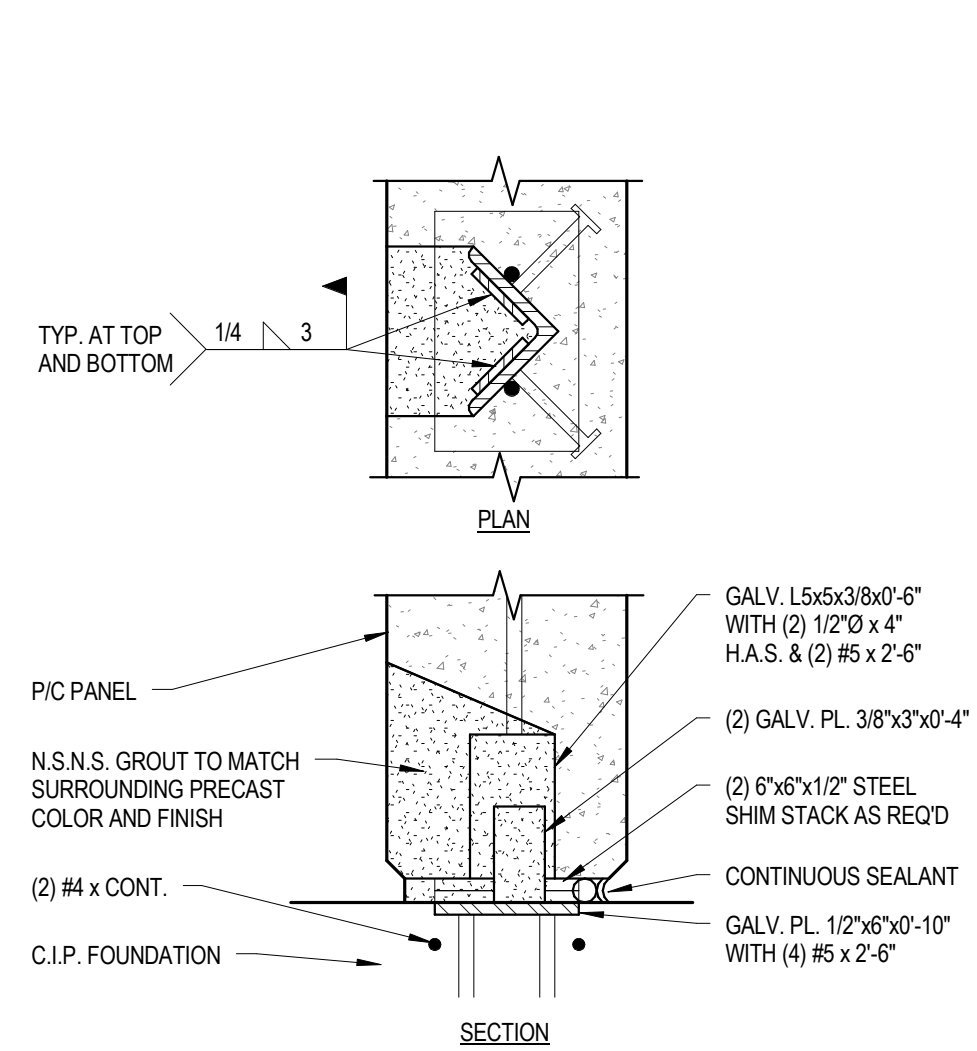
Building Number
-

Drawing Number
S3.3

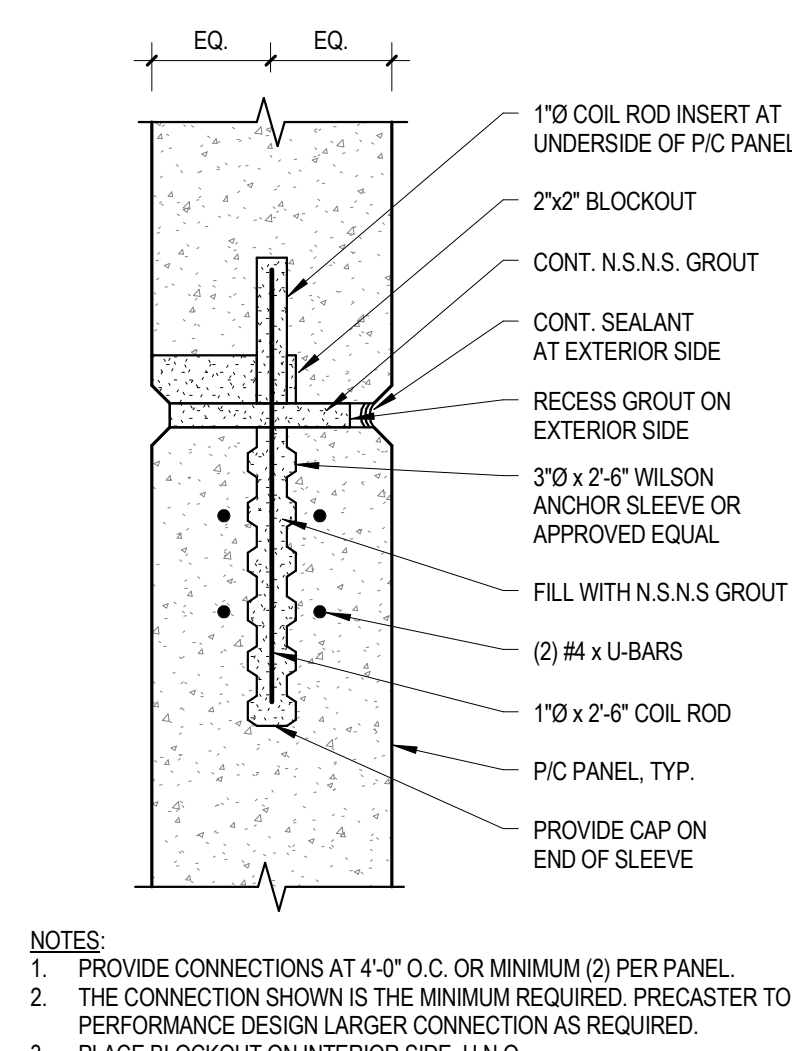
Dwg. 56 of 89

Office of
Construction
and Facilities
Management

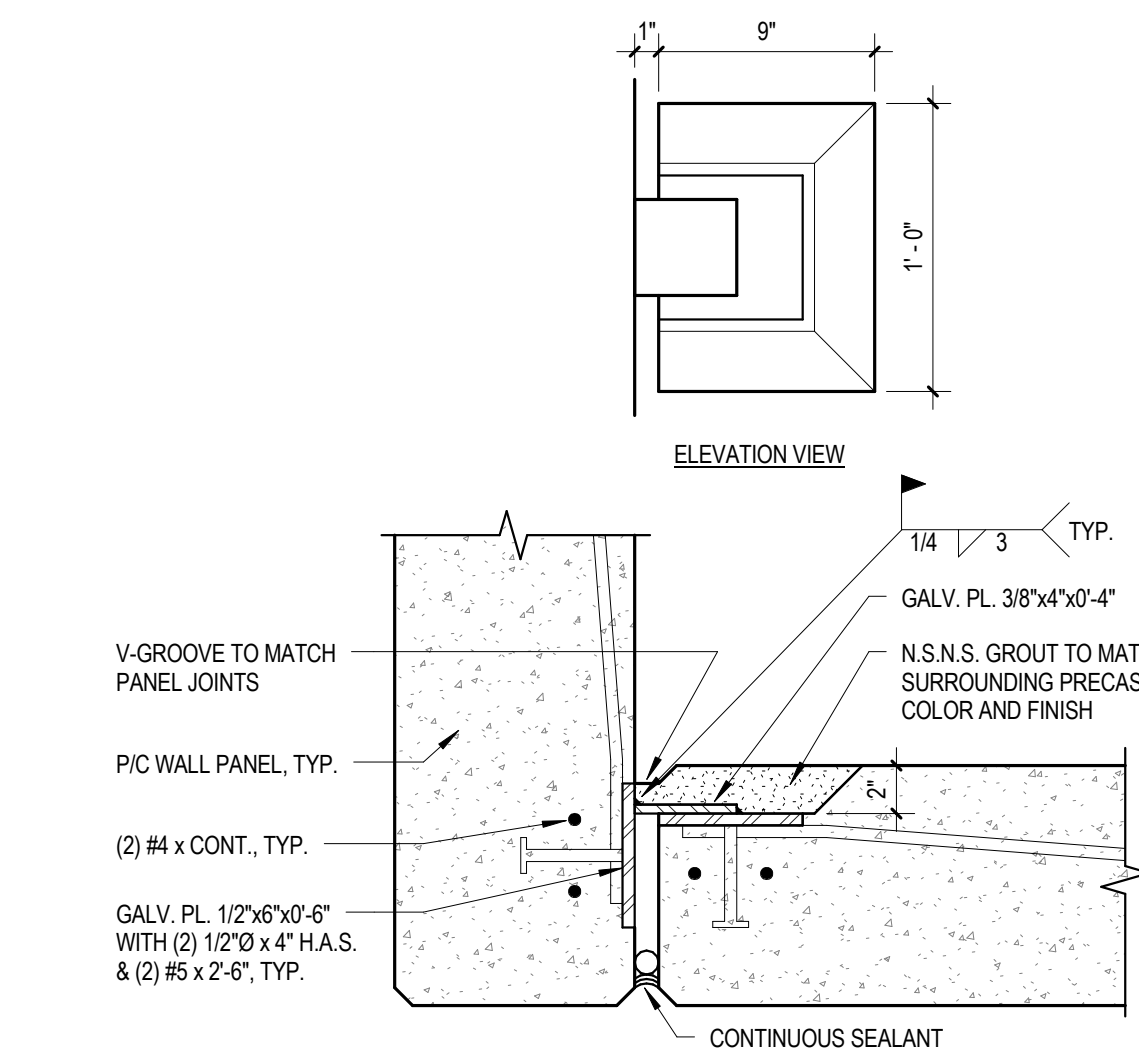




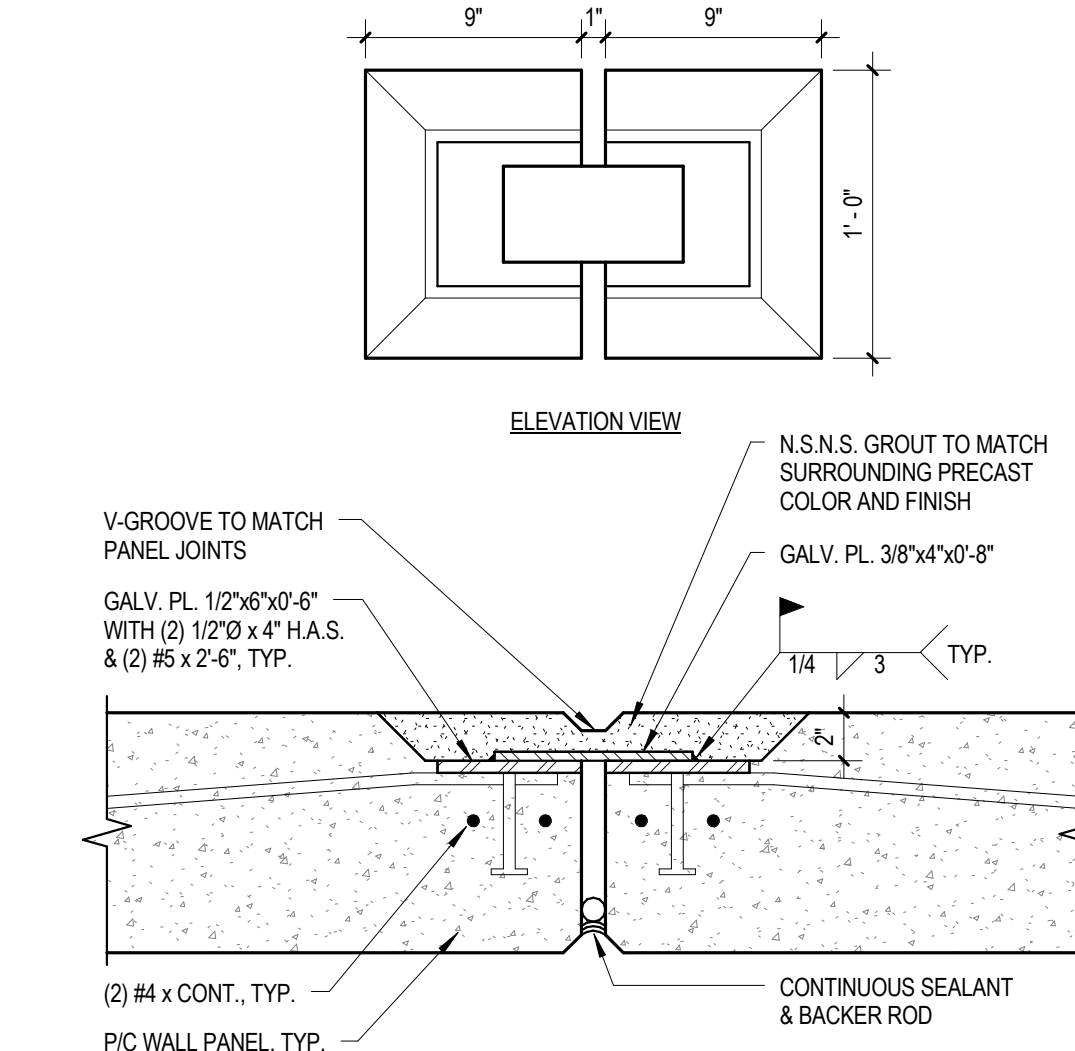
01 TYP. C.I.P. FOUNDATION TO P/C PANEL CONNECTION
N.T.S.



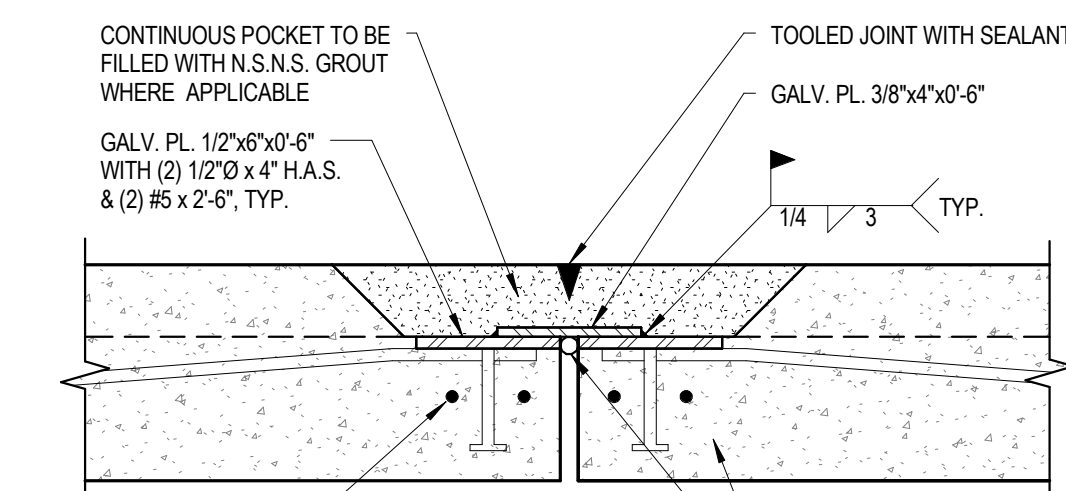
02 TYP. P/C PANEL TO P/C PANEL CONNECTION
N.T.S.



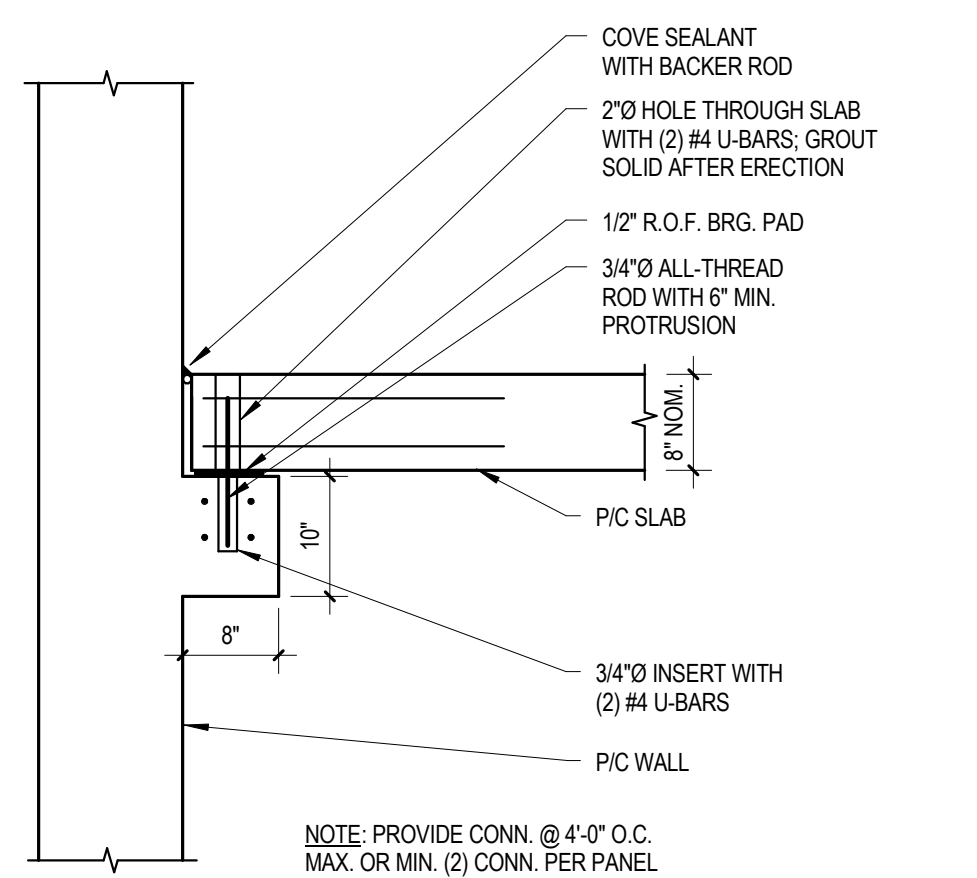
03 TYP. P/C PANEL CONNECTION (AT CORNER VERTICAL JOINTS)
N.T.S.



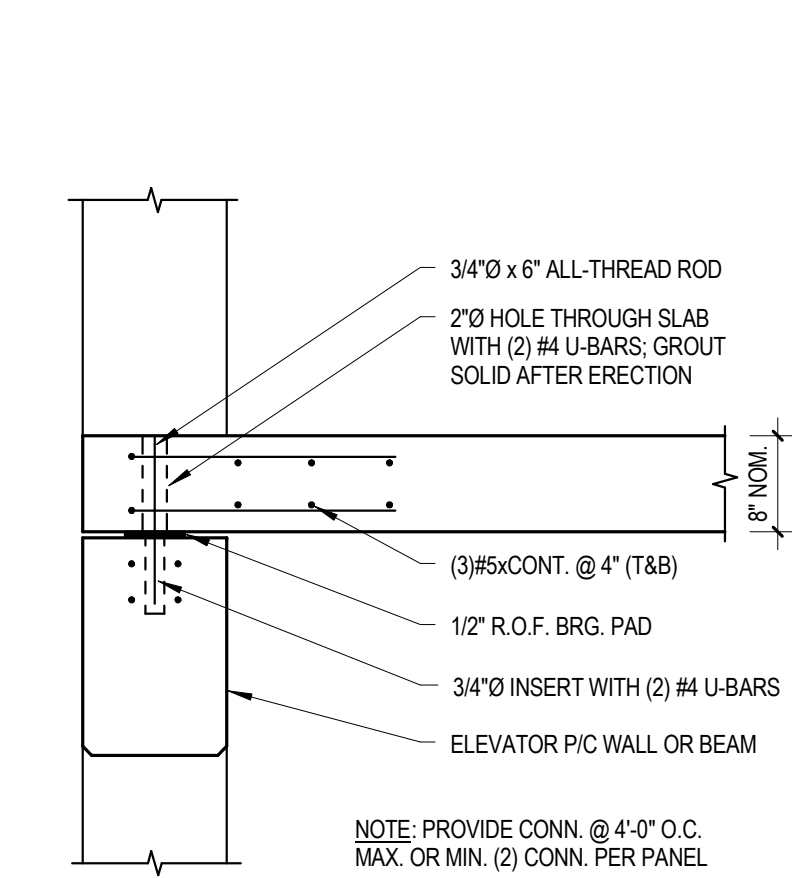
04 TYP. P/C PANEL CONNECTION
N.T.S.



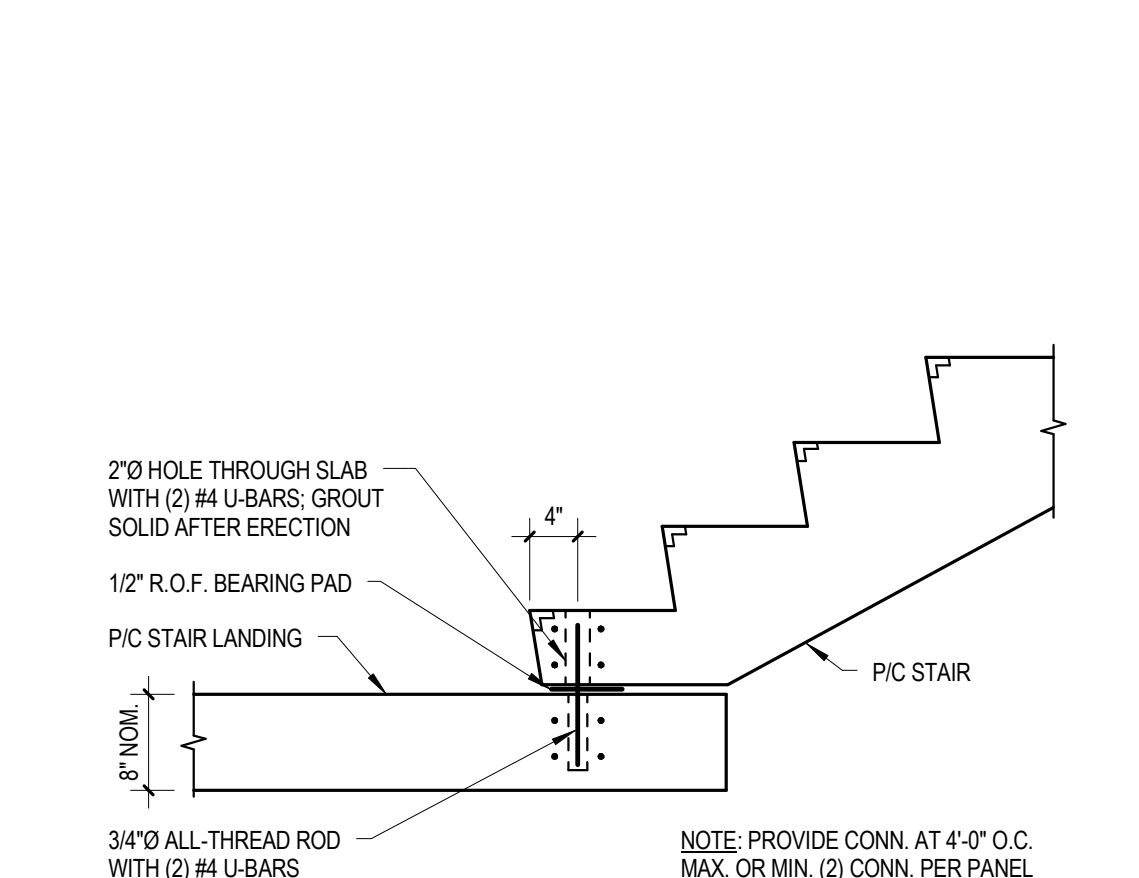
05 TYP. P/C SLAB TO P/C SLAB CONNECTION
N.T.S.



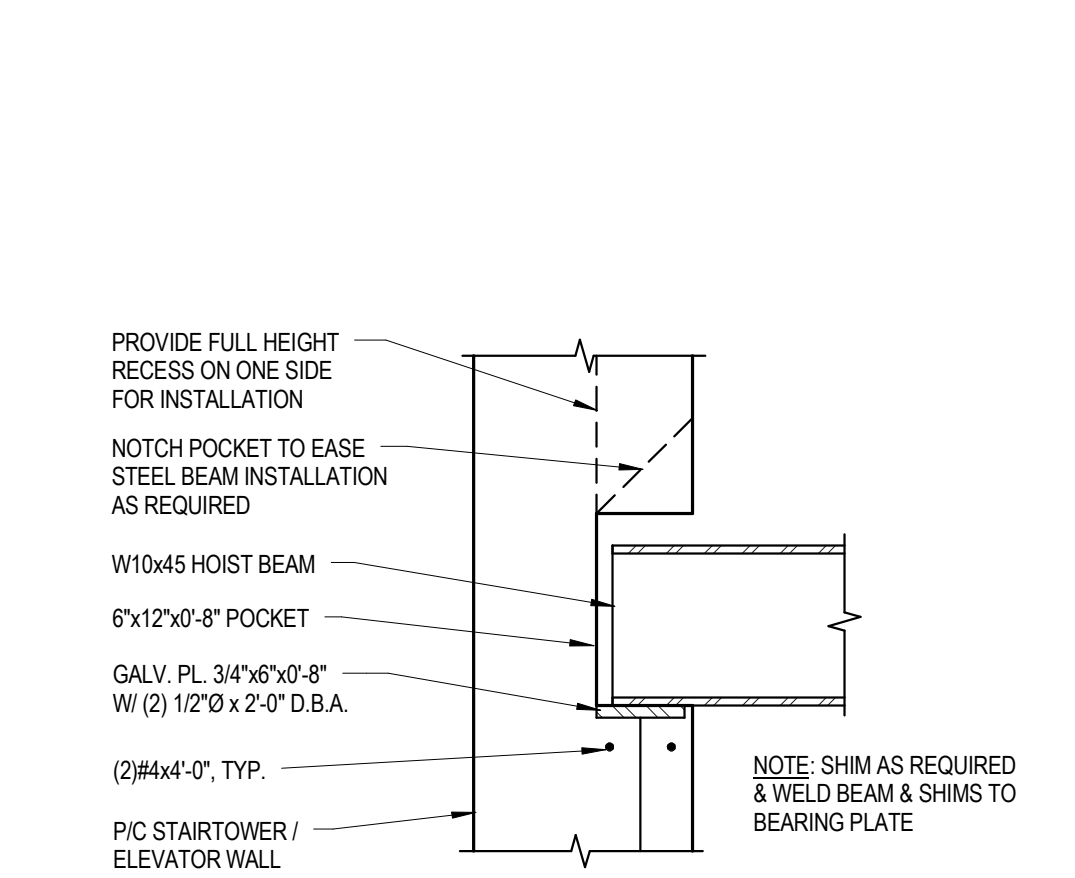
06 P/C SLAB TO HAUNCH CONNECTION
N.T.S.



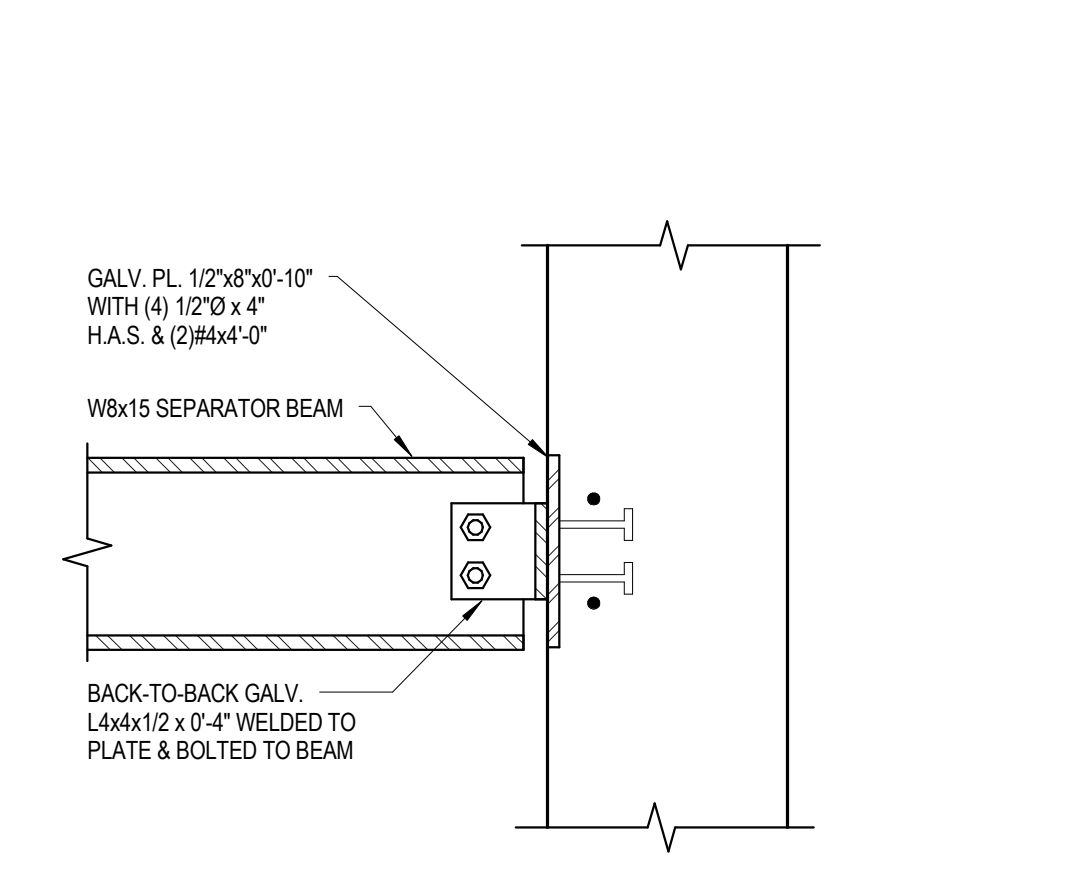
07 P/C SLAB TO ELEVATOR WALL CONNECTION
N.T.S.



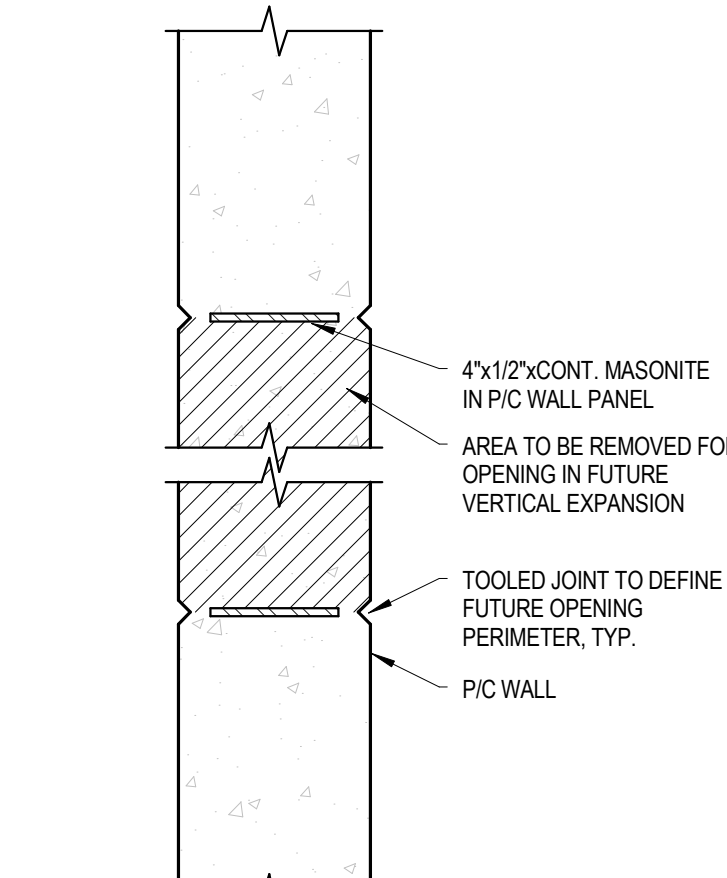
08 P/C STAIR TO P/C SLAB CONNECTION
N.T.S.



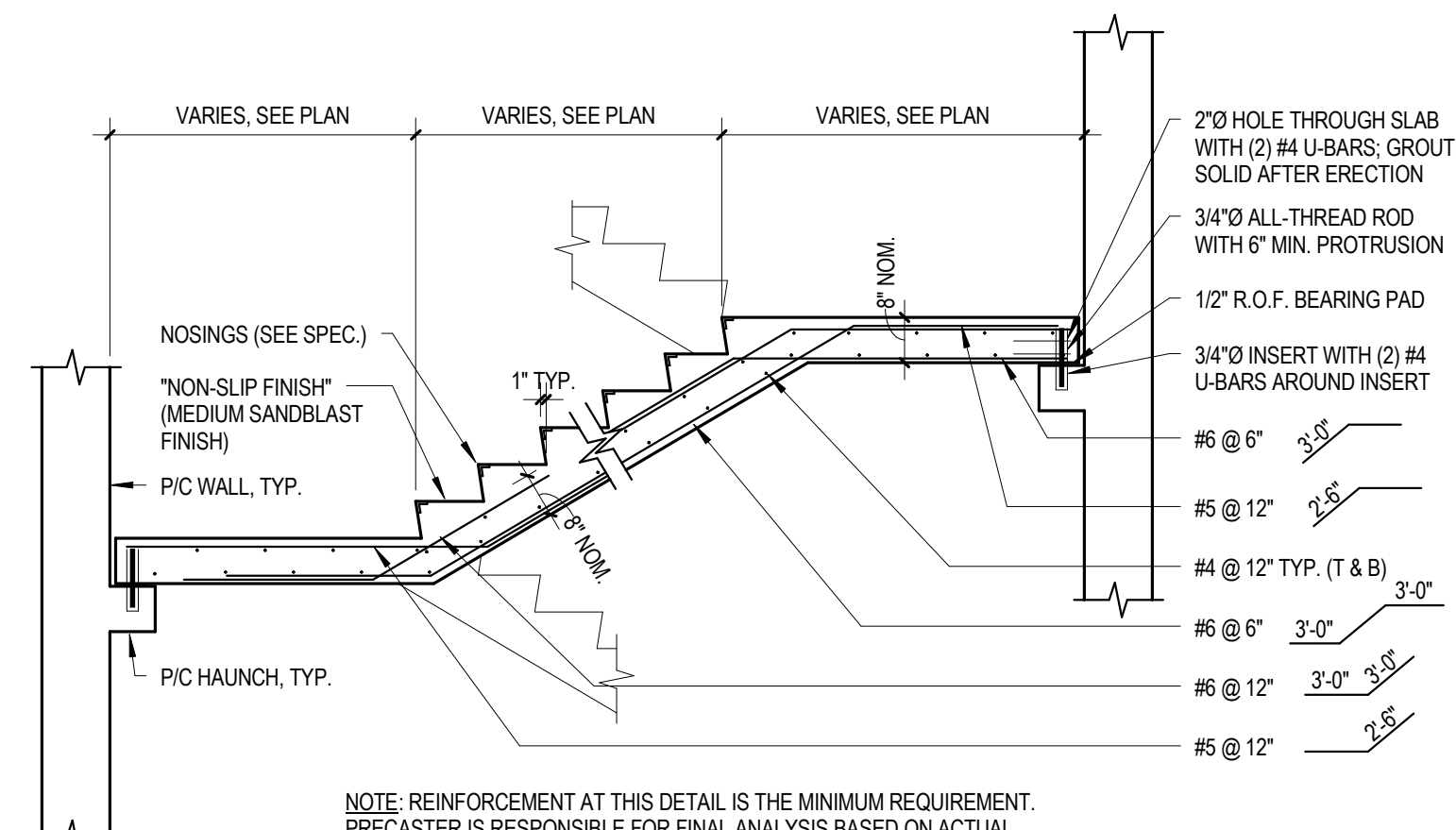
09 HOIST BEAM CONNECTION
N.T.S.



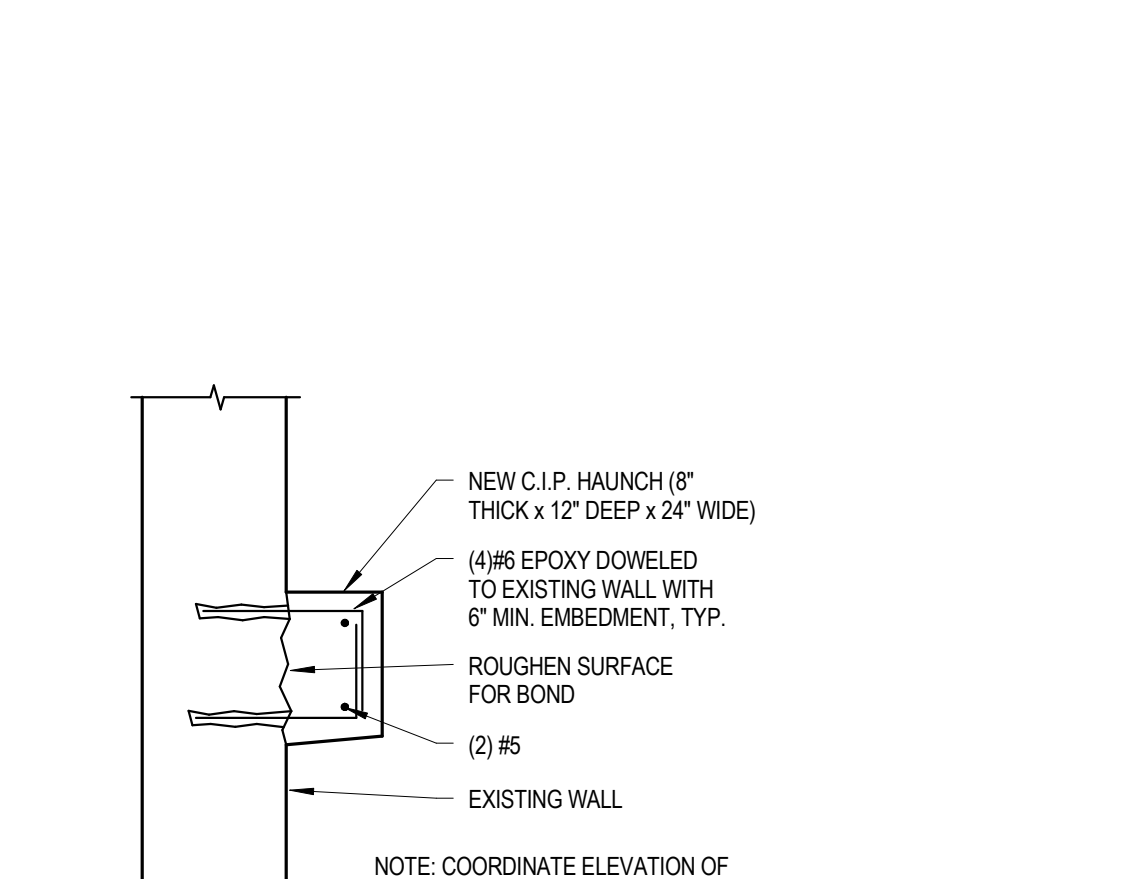
10 SEPARATOR BEAM CONNECTION
N.T.S.



11 FUTURE OPENING DETAIL
1" = 1'-0"



12 TYPICAL P/C STAIR SECTION
N.T.S.



13 NEW PRECAST TEE HAUNCH DETAIL
N.T.S.

Revisions:	Date	
4	100% Submission	2/16/15
3	95% Submission	8/28/14
2	65% Submission	8/07/14

CONSULTANTS:	
ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210	PARKING CONSULTANT Tim Haas & Associates, Inc. 550 Stennett Place, Suite 300 Columbia, MD 21044
STRUCTURAL ENGINEER Tim Haas & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422	MEP ENGINEER DCS Infrastructure, Inc. 3249 Route 112, Suite 1B Medford, NY 11763
COST ESTIMATOR DMS Construction Consulting Services, Inc. 5550 Sterrett Place, Suite 300 Columbia, MD 21044	CIVIL ENGINEER KCI Technologies, Inc. 936 Rogelwood Road Sparks, MD 21152

SEAL:

ARCHITECT/ENGINEERS:

Melville Thomas Architects, Inc.
ARCHITECTURE & PLANNING

400 Wyndhurst Ave., Suite 315 Baltimore, MD 21210
T. 410.433.4400 F. 410.433.4719
www.mtarx.com

Drawing Title
PRECAST DETAILS
Approved: Project Director

Project Title		Project Number
VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1		688-345
Location 50 IRVING ST. N.W. WASHINGTON, D.C.		Building Number -
Date 02/16/15	Checked NCA	Drawn BSS
Drawing Number S3.4		Dwg. 57 of 89

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs