

Town / Village of Harrison

HARRISON RECREATION & COMMUNITY CENTER

270 Harrison Avenue
Harrison, NY 10528

JULY 12, 2023

KG+D Project No.
2020-1005

DESIGN TEAM

PHASE 1 - ISSUE FOR BID



ARCHITECT
KG+D Architects, PC
285 Main Street
Mount Kisco, NY 10549
phone: 914.666.5900

SYSTEMS ENGINEER
OLA Consulting Engineers, PC
50 Broadway - Suite 2
Hawthorne, NY 10532
phone: 914.747.2800

STRUCTURAL ENGINEER
The Di Salvo Engineering Group
93 Lake Ave - Suite 201
Danbury, CT 06810
phone: 203.490.4140

CIVIL ENGINEER
**Woodard & Curran Engineering
& Geological Services, PA, PC**
800 Westchester Ave - Suite N507
Rye Brook, NY 10573
phone: 914.246.2931

DRAWING LIST

G-000	COVER SHEET	STRUCTURAL		MECHANICAL	
GENERAL		S-001	GENERAL STRUCTURAL NOTES	M-001	SYMBOLS, ABBREVIATIONS & NOTES
G-100	EXISTING CONDITIONS & REMOVALS PLAN	S-100	LOWER LEVEL FOUNDATION PLAN	M-101	PARKING FLOOR PLAN PHASE 1
SURVEY		S-101	FIRST FLOOR FOUNDATION PLAN	M-102	FIRST FLOOR PLAN PHASE 1
V-001	TOPOGRAPHIC SURVEY	S-201	FOUNDATION SCHEDULES AND TYPICAL DETAILS	M-201	MECHANICAL SITE PLAN
CIVIL		S-202	FOUNDATION SCHEDULES AND TYPICAL DETAILS	M-202	ELECTRICAL SITE PLAN
C-001	CONSTRUCTION NOTES & LEGENDS	S-210	FOUNDATION SECTIONS	M-701	DETAILS
C-100	GRADING PLAN	S-211	FOUNDATION SECTIONS		Grand total: 32
C-101	LAYOUT PLAN	ARCHITECTURAL			
C-200	UTILITIES PLAN	A-200	LOWER LEVEL PLAN & FOUNDATION DETAIL		
C-300	EROSION & SEDIMENT CONTROL PLAN	A-201	1st FLOOR PLAN - For Reference Only		
C-400	CONSTRUCTION DETAILS	A-301	EXTERIOR ELEVATIONS - For Reference Only		
C-401	CONSTRUCTION DETAILS	A-302	EXTERIOR ELEVATIONS - For Reference Only		
C-402	CONSTRUCTION DETAILS				
C-403	CONSTRUCTION DETAILS				
C-404	CONSTRUCTION DETAILS				
C-405	CONSTRUCTION DETAILS				
C-501	SITE DETAILS				

COVER SHEET

G-000

GENERAL NOTES:

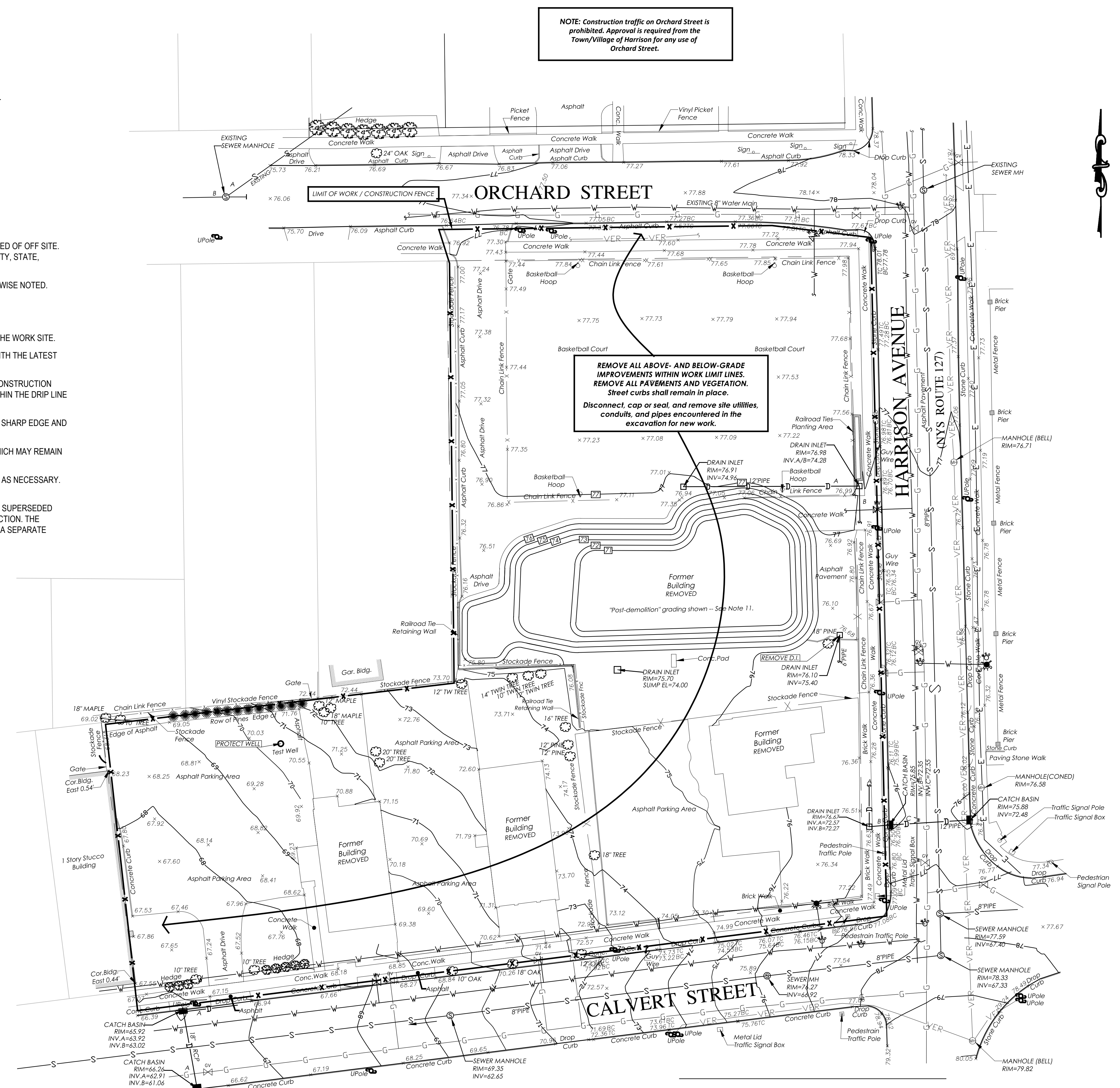
1. THE CONTRACTOR IS CAUTIONED TO VERIFY ALL DIMENSIONS, GRADES AND EXISTING CONDITIONS AT THE SITE PRIOR TO ORDERING MATERIALS OR COMMENCING WORK. ALL DIMENSIONS SHOWN ARE APPROXIMATE ONLY.
2. LOCATIONS OF UNDERGROUND UTILITIES AND SUBSURFACE DRAINAGE SHOWN ARE APPROXIMATE ONLY. ALL EXISTING UTILITY LINES MAY NOT BE SHOWN ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND DETERMINE THE EXACT LOCATION OF ANY UTILITY OR DRAINAGE LINE THAT MAY BE ENCOUNTERED DURING CONSTRUCTION AND TO PROTECT ALL LINES INTENDED TO REMAIN.
3. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER UPON DISCOVERY OF ANY UNDERGROUND UTILITY OR DRAINAGE LINE NOT SHOWN ON THE DRAWINGS.
4. LIMIT OF WORK LINE (LOW) IS COINCIDENT WITH PROPERTY LINE UNLESS OTHERWISE SHOWN. EXTEND CONTRACT LIMIT LINE TO INCLUDE UTILITY WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL CONSTRUCTION DAMAGE INSIDE AND OUTSIDE THE CONTRACT LIMITS TO THEIR ORIGINAL NEW CONDITION.
6. SOURCE OF BASE TOPOGRAPHIC DATA: EXISTING CONDITIONS TOPOGRAPHIC SURVEY BY TC MERRITTS LAND SURVEYORS LAST DATED FEBRUARY 18, 2019. NOTE THAT THE BUILDINGS SHOWN ON THE 2019 SURVEY ARE NOW REMOVED IN THEIR ENTIRETY AND KNOWN UTILITIES CAPPED.

REMOVALS NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE OWNER'S REPRESENTATIVE ON ALL MATERIALS TO BE REMOVED AND RECYCLED/DISPOSED OF OFF SITE. ALL HANDLING OF MATERIALS TO BE REMOVED, RECYCLED, OR DISPOSED OF MUST BE DONE SO IN A SAFE, LEGAL MANNER, IN ACCORDANCE WITH ALL LOCAL, COUNTY, STATE, FEDERAL AND ANY OTHER APPLICABLE REGULATIONS.
2. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH TO INCLUDE BASE MATERIAL AND FOOTINGS OR FOUNDATIONS AS APPLICABLE UNLESS OTHERWISE NOTED.
3. EXISTING ITEMS INDICATED TO BE SALVAGED OR STOCKPILED SHALL BE CAREFULLY REMOVED AND STORED AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
4. EVERY CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE INSIDE AND OUTSIDE THE LIMIT OF WORK DUE TO ITS CONTRACT OPERATIONS.
5. CONTRACTOR SHALL PROTECT AND SUSTAIN IN NORMAL SERVICE ALL EXISTING UTILITIES, STRUCTURES, EQUIPMENT, ROADWAYS AND DRIVEWAYS SURROUNDING THE WORK SITE.
6. CONTRACTOR SHALL INSTALL AND MAINTAIN NECESSARY TRAFFIC CONTROL DEVICES, DRUMS, DELINEATORS, SIGNS, FENCES, AND BARRICADES IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL MUTCD WITH NYS SUPPLEMENT TO PROPERLY PROTECT WORK, EQUIPMENT, PERSONS, AND PROPERTY FROM DAMAGE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES AND PLANTS OUTSIDE THE LIMIT OF WORK FOR THE DURATION OF THE CONSTRUCTION PERIOD AND SHALL, AT A MINIMUM, INSTALL TREE PROTECTION FENCE AS SHOWN AND SPECIFIED. VEHICLES, EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN THE DRIP LINE OR WHERE DAMAGE MAY RESULT TO TREES TO BE SAVED.
8. AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH AND SHARP EDGE AND PROTECTED UNTIL ABUTTING MATERIALS ARE INSTALLED.
9. EXISTING CURB TO BE REPLACED SHALL BE COMPLETELY REMOVED BETWEEN EXISTING EXPANSION JOINTS, EXCEPT FOR EXPANSION JOINT REINFORCING RODS WHICH MAY REMAIN IN PLACE.
10. LIMIT OF WORK LINE IS COINCIDENT WITH THE PERIMETER PROPERTY LINE. LIMIT OF WORK SHALL EXTEND TO INCLUDE OFF-SITE UTILITIES OR OTHER CONNECTIONS AS NECESSARY. WORK LIMIT / CONSTRUCTION FENCE SHALL BE RESTORED TO THE PERIMETER SHOWN AT THE END OF EVERY WORK DAY.
11. THE POST-DEMOLITION GRADING AND OTHER EXISTING CONDITIONS INFORMATION SHOWN ON THIS PLAN IS PROVIDED FOR BIDDING PURPOSES ONLY AND SHALL BE SUPERSEDED AND REPLACED BY AN AS-BUILT SURVEY NOT AVAILABLE AT THE TIME OF BIDDING BUT TO BE PROVIDED BY THE OWNER PRIOR TO BEGINNING OF PHASE 1 CONSTRUCTION. THE POST-DEMOLITION GRADING REPRESENTS THE GRADES AND STABILIZED CONDITIONS TO BE PRESENT AT THE CONCLUSION OF BUILDING DEMOLITION WORK UNDER A SEPARATE CONTRACT.

NOTE: Construction traffic on Orchard Street is prohibited. Approval is required from the Town/Village of Harrison for any use of Orchard Street.

REMOVE ALL ABOVE- AND BELOW-GRADE IMPROVEMENTS WITHIN WORK LIMIT LINES. REMOVE ALL PAVEMENTS AND VEGETATION. Street curbs shall remain in place. Disconnect, cap or seal, and remove site utilities, conduits, and pipes encountered in the excavation for new work.



LEGEND	
⊙	MANHOLES
□	DRAIN INLETS/CATCH BASINS
⊕	GAS VALVE/GAS BOX
⊖	WATER VALVE
⊕	HYDRANT
⊖	WATER SHUT OFF VALVE
⊕	UTILITY POLE
⊕	LIGHT POST
TC	TOP OF CURB
BC	BOTTOM OF CURB

LEGEND	
—	WATER MAIN
—	DRAINAGE PIPE
—	GAS MAIN
—	SANITARY SEWER MAIN
—	ELECTRICAL LINE
—	VERDON LINE

NOTE: ALL IDEAS, DESIGN, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF KG+D ARCHITECTS, PC AND ARE NOT TO BE REPRODUCED OR USED IN ANY PROJECT WITHOUT THE WRITTEN PERMISSION OF KG+D.

WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL CONDITIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATION FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

ALTERATIONS BY ANY PERSON IN ANY WAY OF ANY ITEM CONTAINED ON THIS DOCUMENT UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE 18, SECTION 201.5 OF THE NEW YORK STATE LAW. © COPYRIGHT KG+D ARCHITECTS, PC. ALL RIGHTS RESERVED.

Professional Seal

No.	Date	Issue
1	07/12/2023	ISSUE FOR BID - PHASE 1

EXISTING CONDITIONS & REMOVALS PLAN

Job No.	2020-1005	Date	07/12/2023
Scale	1" = 20'	Drawn / Checked	- / -
Sheet Number	G-100		

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 1

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D listen
imagine
build
KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHTCTS.COM

CONSTRUCTION DOCUMENTS



Vicinity Map

TAX LOTS 31 AND 33
Premises hereon being Lots 582 and 583 as shown on a certain map entitled, "2nd Map of Brentwood Plaza." Said map filed in the Westchester County Clerk's Office, Division of Land Records July 27, 1892 as map number 1034.
Premises hereon being Lot 584 as shown on a certain map entitled, "4th Map of Brentwood Plaza." Said map filed in the Westchester County Clerk's Office, Division of Land Records May 31, 1894 as map number 1114.

Surveyed in accordance with Deed Control Number 572483257.

Premises shown hereon designated on the Town of Harrison Tax Maps as Block 253, Lots 31 and 33.

Property Address: 260 Harrison Avenue
Harrison, NY 10528

TAX LOT 28
Premises hereon being Lot 585 as shown on a certain map entitled, "4th Map of Brentwood Plaza." Said map filed in the Westchester County Clerk's Office, Division of Land Records May 31, 1894 as map number 1114.
Premises hereon being Lots A and B as shown on a certain map entitled, "Map of Lots Belonging to Mary B. Pundy." Said map filed in the Westchester County Clerk's Office, Division of Land Records February 23, 1905 as map number 1464.

Premises shown hereon designated on the Town of Harrison Tax Maps as Block 253, Lot 28.

Property Address: 270 Harrison Avenue
Harrison, NY 10528

TAX LOT 34
Premises hereon being Lots 579, 580 and 581 as shown on a certain map entitled, "2nd Map of Brentwood Plaza." Said map filed in the Westchester County Clerk's Office, Division of Land Records July 27, 1892 as map number 1034.

Surveyed in accordance with Deed Control Number 532243364.

Premises shown hereon designated on the Town of Harrison Tax Maps as Block 253, Lot 34.

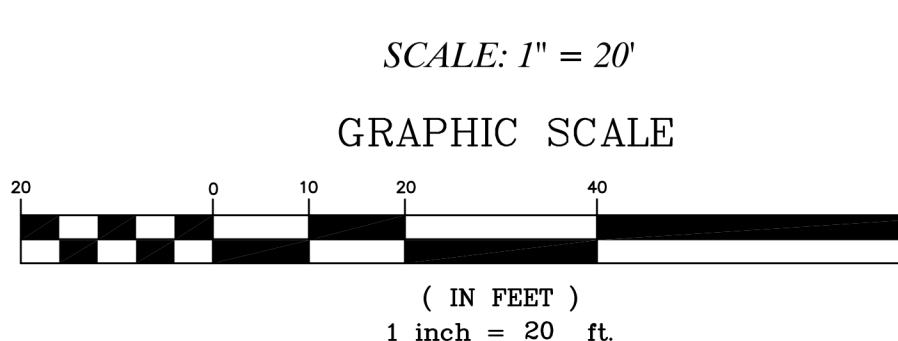
Property Address: Calvert Street
Harrison, NY 10528

TAX LOT 37
Premises hereon being Lots 575, 576, 577 and 578 as shown on a certain map entitled, "2nd Map of Brentwood Plaza." Said map filed in the Westchester County Clerk's Office, Division of Land Records July 27, 1892 as map number 1034.

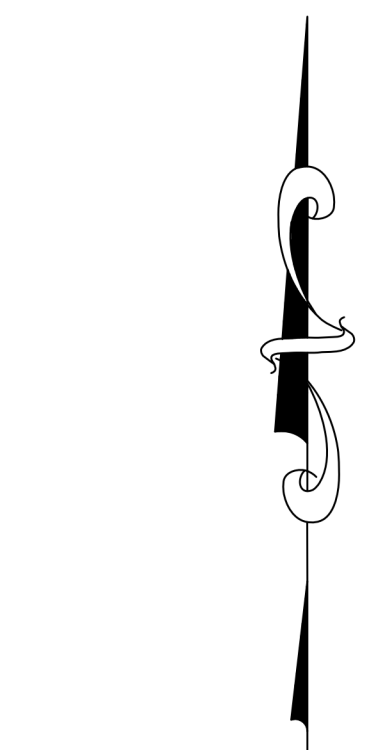
Premises shown hereon designated on the Town of Harrison Tax Maps as Block 253, Lot 37.

Property Address: 14 Calvert Street
Harrison, NY 10528

**TOPOGRAPHY OF PROPERTY
PREPARED FOR
TOWN OF HARRISON**
SITUATE IN THE
TOWN OF HARRISON
WESTCHESTER COUNTY, NEW YORK



Project: Ref. 10-216 17-356	Field Survey By: BC/CR
Drawn By: DA	Checked By: DM



Only copies from the original of this topography map marked with an original of the Land Surveyors embossed seal shall be considered to be true, valid copies.

Unauthorized alteration or addition to a map bearing a licensed Land Surveyors seal is a violation of Section 7209, Subdivision 2 of the New York State Education Law.

Possession only where indicated.

Adjacent property lines and easements not surveyed or certified.
Access to adjacent rights of way, easements and public or private lands not guaranteed or certified.

Underground utilities shown hereon are approximate and should be verified before excavating.
Additional underground utilities are not shown or certified.
Encroachments and structures below grade, if any, not shown or certified.

Subject to covenants, easements, restrictions, conditions and agreements of record.

This map is prepared to show topography only and is not to be used for title transfer purposes. Map may not be certified to title companies and/or banks.

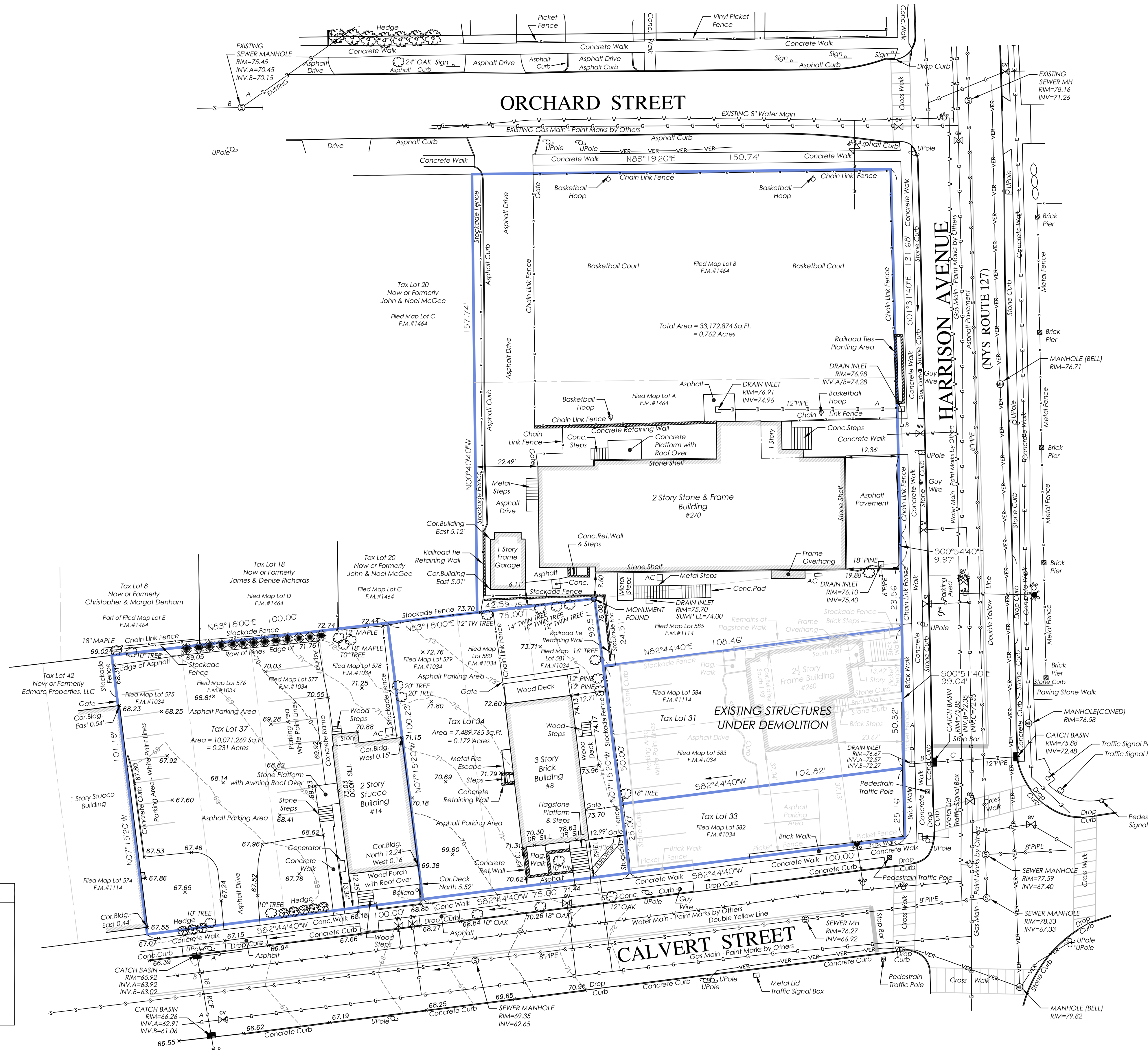
Tree species shown hereon to be verified by a licensed arborist and are not certified by surveyor.

Elevations shown hereon generally in accordance with North American Vertical Datum 88.

LEGEND	
⊙	MANHOLES
⊠	DRAIN INLETS/CATCH BASINS
⊞	GAS VALVE/GAS BOX
⊞	WATER VALVE
⊞	HYDRANT
⊞	WATER SHUT OFF VALVE
⊞	UTILITY POLE
⊞	LIGHT POST
TC	TOP OF CURB
BC	BOTTOM OF CURB

LEGEND	
—	WATER MAIN
—	DRAINAGE PIPE
—	GAS MAIN
—	SANITARY SEWER MAIN
—	ELECTRICAL LINE
—	VERIZON LINE

Below ground utilities shown hereon as per delineation by others.
Paint marks set in street by others & drawings supplied by utility companies.
Additional utilities may exist, not shown.



Surveyed: October 7, 2017
Map Prepared: October 17, 2017
Map Revised: February 18, 2019 to show structures and topography on Tax Lots 34 and 37.
By: *Daniel T. Merritt*
New York State Licensed Land Surveyor No. 050604

TC MERRITTS LAND SURVEYORS
394 BEDFORD ROAD • PLEASANTVILLE • NY 10570
(914) 769-8003 • (203) 622-8899

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**TOPOGRAPHIC
SURVEY**

No.	Date	Issue
3	07/12/2023	ISSUE FOR BID - PHASE 1

Sheet Title

Job No. 2020-1005 Date 07/12/2023
Scale AS NOTED Drawn / Checked
Sheet Number

V-001

GENERAL NOTES:

- 1. EXISTING CONDITIONS SHOWN HEREON HAVE BEEN TAKEN FROM A FIELD SURVEY PREPARED BY TC MERRITT'S LAND SURVEYORS...
2. TC MERRITT'S LAND SURVEYORS IS LOCATED AT THE FOLLOWING ADDRESS: 394 BEDFORD ROAD, PLEASANTVILLE, NEW YORK 10570...
3. EXISTING UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM A FIELD SURVEY PREPARED BY TC MERRITT'S LAND SURVEYORS...
4. LAND OUTSIDE THE PROPOSED LIMIT OF WORK SHALL NOT BE DISTURBED BY THE CONTRACTOR...
5. PRIOR TO CONSTRUCTION THE ENGINEER AND CONTRACTOR WILL REVIEW THE PERMITTED LIMITS OF WORK...
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCH MARKS NECESSARY FOR THE WORK...
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE SITE DRAWINGS...
8. THE CONTRACTOR SHALL CALL "DIG SAFELY, NEW YORK" AT 811 AT LEAST 72 HOURS PRIOR TO EXCAVATION...
9. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL SAFETY CODES, REGULATIONS, LEGAL REQUIREMENTS, PERMIT CONDITIONS, ETC...
10. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, STREETS, PAVEMENTS, CURBING, TREES, PLANTINGS, LAWN, FENCINGS TO REMAIN ON OR OFF THE PREMISES...
11. THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SHORING OF ALL EXCAVATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNING CODES AND REGULATIONS...
12. ALL SURFACES TO REMAIN THAT ARE DISTURBED BY THIS WORK SHALL BE RESTORED TO THEIR ORIGINAL CONDITION...
13. SAWCUTS IN EXISTING PAVEMENT SHALL BE SMOOTH AND STRAIGHT...
14. WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH APPLICABLE MUNICIPAL AND STATE REQUIREMENTS...
15. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY...
16. IF IMPORTED FILL MATERIAL IS REQUIRED, IT SHALL BE CERTIFIED IN WRITING BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER AS NON-CONTAMINATED, CLEAN FILL SUITABLE FOR THE INTENDED USE...
17. THIS PROJECT INCLUDES THE COMPLETION OF DEEP EXCAVATIONS TO COMPLETE THE WORK...
18. CONTRACTOR SHALL PROVIDE ALL MAINTENANCE AND PROTECTION OF TRAFFIC LABOR AND EQUIPMENT AS REQUIRED AND SAFE MANOR...
19. WHENEVER AN ITEM OF MATERIAL, EQUIPMENT, CONSTRUCTION METHODS OR PROCEDURES IS SPECIFIED OR DESCRIBED IN THE CONTRACT/BIDDING DOCUMENTS BY USING THE NAME OF A PROPRIETARY ITEM, MAKE OR CATALOGUE NUMBER...

MATERIALS NOTES:

- 1. ALL FULL DEPTH PAVEMENT REPLACEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, LATEST REVISION...
2. ALL EXISTING PAVEMENT DEPICTED TO BE SAWCUT, SHALL BE MILLED 2 FEET FROM THE SAWCUT EDGE...
3. EXISTING PAVEMENT TO BE REMOVED AROUND STRUCTURES SHALL BE SAWCUT 3 FEET FROM THE OUTSIDE WALL OF STRUCTURE AND RESURFACED 2 FEET BEYOND THE EDGE OF THE SAWCUT...
4. TOPSOIL FROM THE EXISTING SITE SHALL BE REUSED ON-SITE IN ALL AREAS REQUIRING TOPSOIL...
5. ALL FILL GENERATED FROM REQUIRED EXCAVATION ACTIVITY SHALL BE REUSED ON-SITE WHERE IT MEETS THE SPECIFICATIONS...

GRADING AND DRAINAGE NOTES:

- 1. CASTINGS FOR EXISTING STRUCTURES TO REMAIN AND PROPOSED STRUCTURES SHALL BE SET TO THE PROPOSED ELEVATIONS SHOWN ON THE DRAWINGS...
2. THE FILLING OF SOIL OVER THE ROOTS OF TREES TO BE PRESERVED IS PROHIBITED...
3. SUITABLE SOIL MATERIALS ARE DEFINED AS THOSE COMPLYING WITH ASTM D2487 SOIL CLASSIFICATION GROUPS GW, SM, SW AND SP AS STATED IN THE PROJECT SPECIFICATIONS...
4. UNSUITABLE FILL AND BACKFILL MATERIALS ARE MATERIALS CONTAINING EXCESSIVE AMOUNT OF WATER, PLASTIC CLAY, VEGETATION, ORGANIC MATTER, DEBRIS, PAVEMENT, STONES OR BOULDERS OVER 3 INCHES IN GREATEST DIMENSION...
5. SUITABLE SOIL SHALL BE PLACED IN LAYERS TO THE REQUIRED ELEVATIONS AS SHOWN ON THE DRAWINGS...
6. CONTRACTOR SHALL PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN (6) INCHES IN LOOSE DEPTH...
7. FOR GROUND SURFACE PREPARATION, CONTRACTOR SHALL REMOVE VEGETATION, DEBRIS, UNSUITABLE SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE...
8. PRIOR TO CONSTRUCTION, COMPLETE CAMERA INSPECTION OF EXISTING STORM DRAINAGE PIPES ADJACENT TO THE PROJECT AS SHOWN ON THE DRAWINGS...
9. PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL HAND DIG TEST PITS TO VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES...
10. ALL PROPOSED UTILITIES AND THEIR CONNECTIONS, DISCONNECTION AND RELOCATION OF EXISTING UTILITIES SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY...
11. AT NO TIME SHALL THE CONTRACTOR DISTURB MORE THAN 5 ACRES AT ANY ONE TIME WITHOUT WRITTEN APPROVAL FROM AUTHORITIES HAVING JURISDICTION...

SCHEDULE OF TEMPORARY EROSION CONTROL MEASURES:

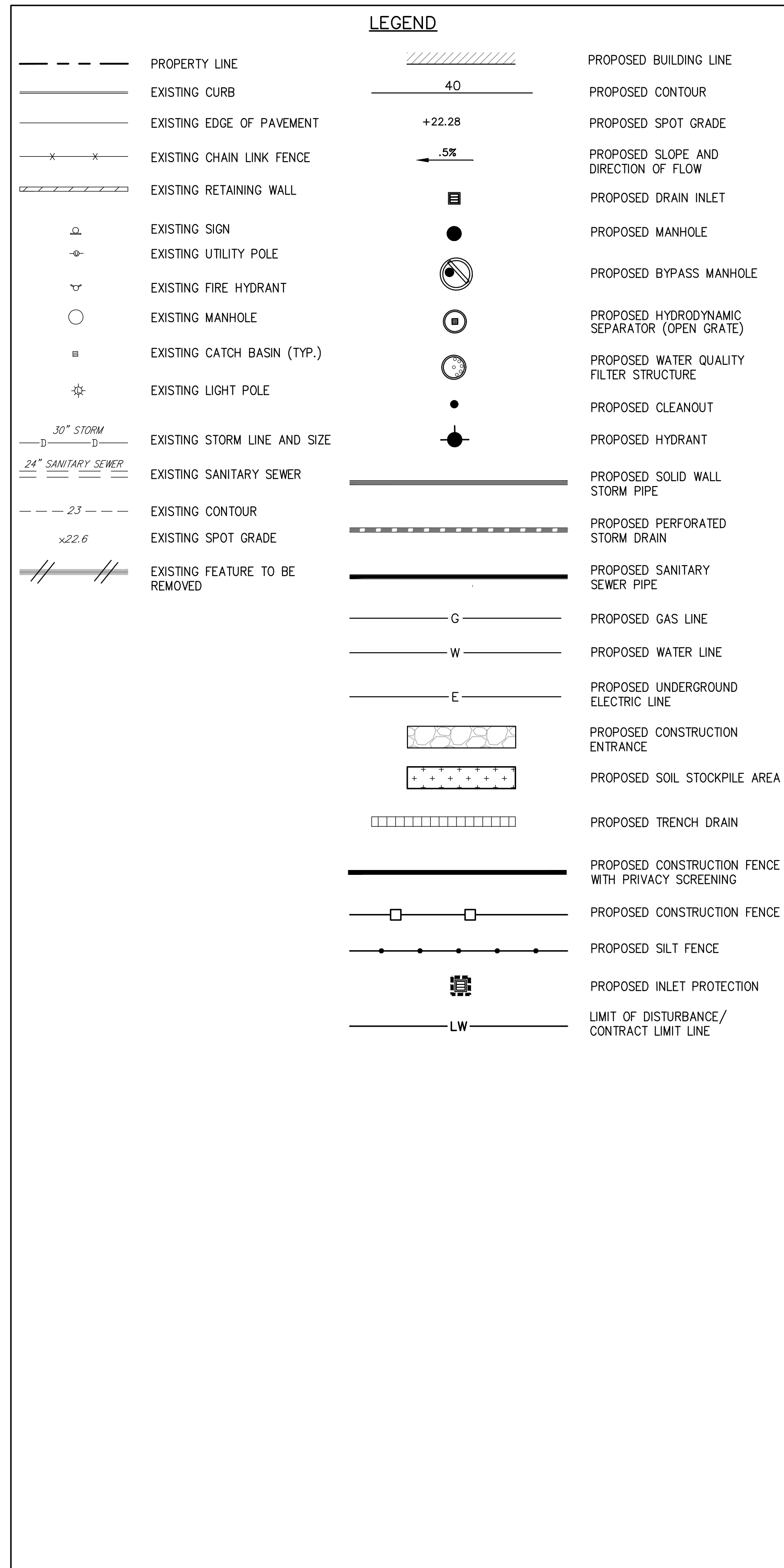
Table with columns: MEASURE, DATES FOR USE, TIMING, ACTIVITY, AND LOCATION. Rows include: SILT FENCE/CONSTRUCTION FENCE, INLET PROTECTION, DUST CONTROL, TEMPORARY SEEDING (with sub-rows for Oats, Ryegrass, Sudangrass, Winter Rye), MULCH, WINTER MULCH, EROSION CONTROL BLANKET, INSPECTIONS.

SCHEDULE OF PERMANENT EROSION CONTROL MEASURES:

Table with columns: MEASURE, DATES FOR USE, TIMING, ACTIVITY, AND LOCATION. Rows include: PAVEMENT - BASE COURSE/FINAL COURSE, PERMANENT SEEDING, DORMANT SEEDING, GROUND COVER, TREES, SHRUBS, PERMANENT MULCH.

NOTES:

- 1. ALL PROPOSED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS INDICATED ON THE PLANS, AND IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL," LATEST REVISION...
2. ADDITIONAL SOIL STABILIZATION WILL BE REQUIRED IF THERE IS THE POSSIBILITY OF WIND EROSION...
3. SEDIMENT AND DEBRIS DROPPED, WASHED, SPILLED OR TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS OR OTHER HARDSCAPE SURFACES SHALL IMMEDIATELY BE REMOVED.

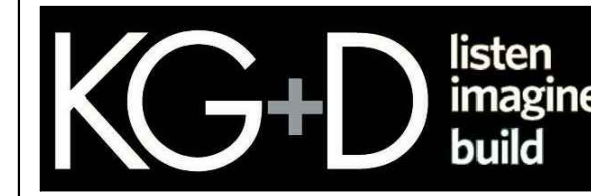


HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 1

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



KG+D ARCHITECTS, PC

285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGARCHITECTS.COM



CONSTRUCTION DOCUMENTS

NOTE: ALL IDEAS, DESIGN ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF KG+D ARCHITECTS, PC AND ARE HEREBY DESIGNATED FOR USE ON THIS PROJECT... NOTE: NONE OF SUCH IDEAS, DESIGN ARRANGEMENTS OR PLANS SHALL BE USED BY ANY OTHER PERSON FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF KG+D.

WRITTEN DIMENSIONS ON THIS DRAWING SHALL TAKE PRECEDENCE OVER UNLabeled DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH FABRICATION.

ALTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS DOCUMENT UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE 16, SECTION 16-1.1 (b) (3) OF NEW YORK STATE LAW 6. COPYRIGHT © KG+D ARCHITECTS, PC. ALL RIGHTS RESERVED.

CONTRACTOR CERTIFICATION STATEMENT:

Form for Contractor Certification Statement. Includes fields for Project Address (Harrison Recreation & Community Center, 270 Harrison Avenue, Harrison, NY 10528), Date, Certification Statement, Signature, Name (Print), Title, Contracting Firm, Address, Telephone.

SUBCONTRACTOR CERTIFICATION STATEMENT:

Form for Subcontractor Certification Statement. Includes fields for Project Address (Harrison Recreation & Community Center, 270 Harrison Avenue, Harrison, NY 10528), Date, Certification Statement, Signature, Name (Print), Title, Contracting Firm, Address, Telephone.

Revision table with columns: No., Date, Issue. Entries: 4 (07/12/2023) ISSUE FOR BID - PHASE 1; 3 (06/09/2023) ISSUE FOR PERMIT - PHASE 1; 2 (06/01/2020) DESIGN DEVELOPMENT; 1 (03/31/2020) 50% DESIGN DEVELOPMENT.

CONSTRUCTION NOTES & LEGENDS

Job No. 2020-1005 Date 06/29/2023

Scale AS NOTED Drawn / Checked CUJ/JLMT

Sheet Number

C-001

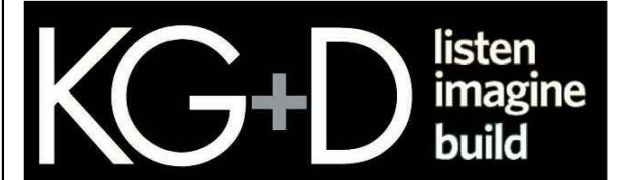
GENERAL NOTES:

1. THE PROPOSED SITE GRADING (INCLUDING PROPOSED SPOT ELEVATIONS, CONTOURS, AND WALL ELEVATIONS, FINISHED GRADE ELEVATIONS FOR PROPOSED INLET STRUCTURES) AND LAYOUT PLAN (ALL LAYOUT AND MATERIALS) DEPICTED ON THIS GRADING PLAN (SHEET C-100) HAVE BEEN DESIGNED BY KG+D ARCHITECTS, PC. KG+D ARCHITECTS, PC PROVIDED THIS DESIGN INFORMATION TO WOODARD & CURRAN ENGINEERING & GEOLOGICAL SERVICES PA PC ON 06/30/2023. FILENAME "ARCH SITE PLAN 2023.DWG". THE PE SIGNATURE/SEAL OF STEVEN LAURIA, SENIOR PROJECT MANAGER OF WOODARD & CURRAN ENGINEERING & GEOLOGICAL SERVICES PA PC ON SHEETS C-100, C-200, C-300, RELATES SPECIFICALLY TO THE DESIGN OF UNDERGROUND PIPING AND UNDERGROUND STRUCTURES FOR STORMWATER, WATER, AND SEWER (INCLUDING STORM SEWER SYSTEM DESIGN, WATER SERVICE LINE AND CONNECTION TO SEWER MAIN), SURFACE AND SUBSURFACE STORMWATER MANAGEMENT FEATURES FOR STORMWATER FLOW ATTENUATION AND WATER QUALITY TREATMENT.
2. CONSTRUCTION TRAFFIC ON ORCHARD STREET IS PROHIBITED. APPROVAL IS REQUIRED FROM THE TOWN/VILLAGE OF HARRISON IF ANY ROAD CLOSURES REQUIRES USE OF ORCHARD STREET.

KEY TO SPOT GRADES:

- x 67.55 EXISTING ELEVATION TO REMAIN
- x 67.55 PROPOSED SPOT GRADE
- 67- PROPOSED CONTOUR
- HP HIGH POINT
- TW/BW TOP/BOTTOM OF WALL ELEV.
- TC/BC TOP/BOTTOM OF CURB

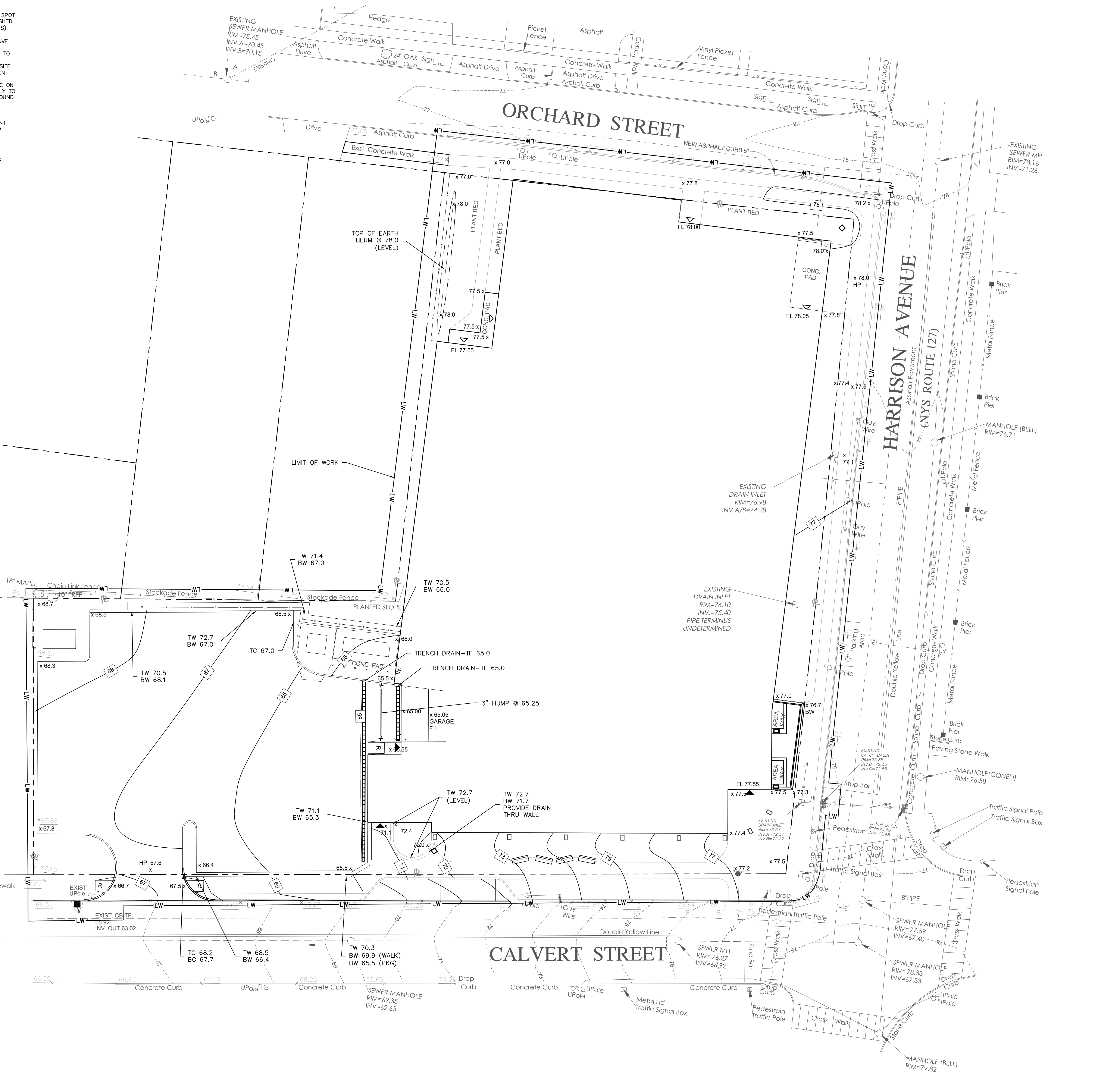
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 270 Harrison Avenue
 Harrison, NY 10528



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CONSTRUCTION DOCUMENTS



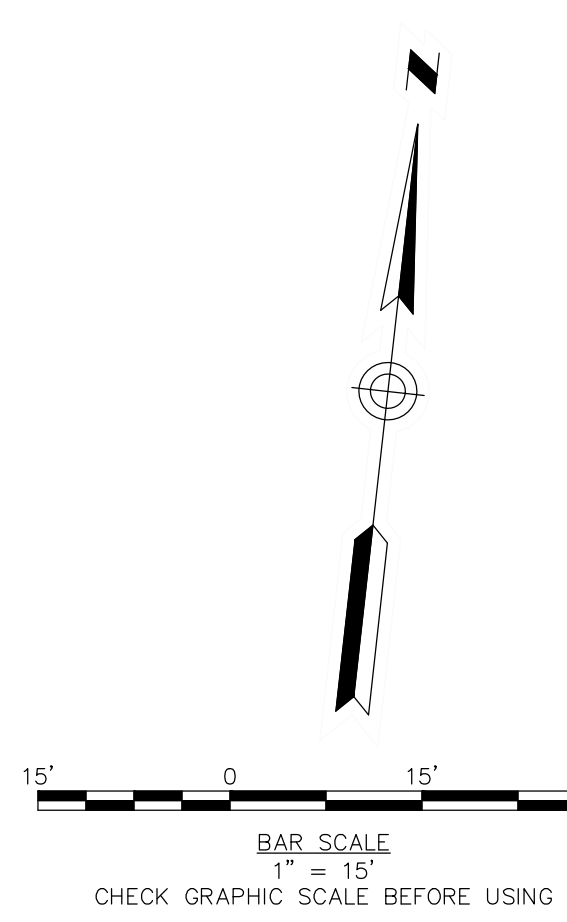
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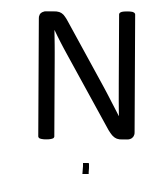
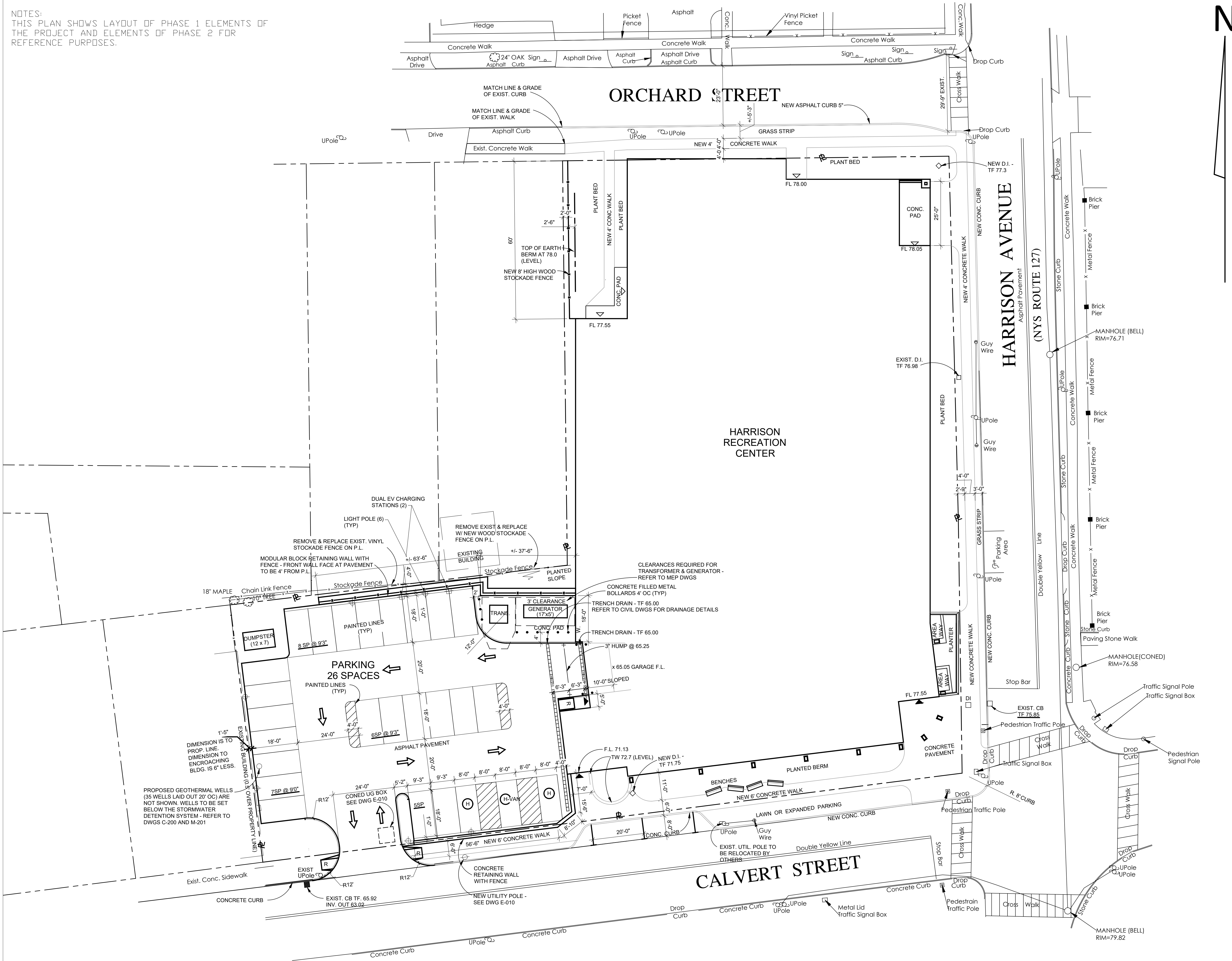
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No.	Date	Issue
4	07/12/2023	ISSUE FOR BID - PHASE 1
3	06/09/2023	ISSUE FOR PERMIT - PHASE 1
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title	
GRADING PLAN	
Job No.	Date
2020-1005	07/07/2023
Scale	Drawn / Checked
AS NOTED	CJ/JLM
Sheet Number	
C-100	



NOTES:
THIS PLAN SHOWS LAYOUT OF PHASE 1 ELEMENTS OF THE PROJECT AND ELEMENTS OF PHASE 2 FOR REFERENCE PURPOSES.



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Professional Seal

No.	Date	Issue
3	07/12/2023	ISSUE FOR BID - PHASE 1

LAYOUT PLAN

Job No.	2020-1005	Date	07/12/2023
Scale	1" = 15'	Drawn / Checked	FW/RLA
Sheet Number	C-101		

GENERAL NOTES:

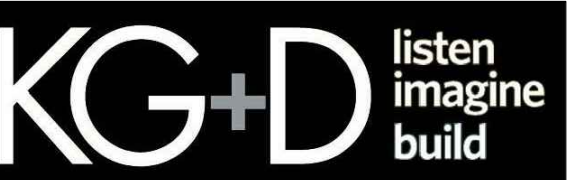
1. THE PROPOSED SITE GRADING (INCLUDING PROPOSED SPOT ELEVATIONS, CONTOURS, AND WALL ELEVATIONS, FINISHED GRADE ELEVATIONS FOR PROPOSED INLET STRUCTURES) AND LAYOUT PLAN (ALL LAYOUT AND MATERIALS) DEPICTED ON THIS LAYOUT AND UTILITY PLAN (SHEET C-200) HAVE BEEN DESIGNED BY KG+D ARCHITECTS, PC. KG+D ARCHITECTS, PC PROVIDED THIS DESIGN INFORMATION TO WOODARD & CURRAN ENGINEERING & GEOLOGICAL SERVICES PA PC ON 06/30/2023, FILENAME "ARCH SITE PLAN 2023.DWG". THE PE SIGNATURE/SEAL OF STEVEN LAURIA, SENIOR PROJECT MANAGER OF WOODARD & CURRAN ENGINEERING & GEOLOGICAL SERVICES PA PC ON SHEETS C-100, C-200, C-300, RELATES SPECIFICALLY TO THE DESIGN OF UNDERGROUND PIPING AND UNDERGROUND STRUCTURES FOR STORMWATER, WATER, AND SEWER (INCLUDING STORM SEWER SYSTEM DESIGN, WATER SERVICE LINE AND CONNECTION TO WATER MAIN, SANITARY SEWER SERVICE LINE AND CONNECTION TO SEWER MAIN), SURFACE AND SUBSURFACE STORMWATER MANAGEMENT FEATURES FOR STORMWATER FLOW ATTENUATION AND WATER QUALITY TREATMENT.
2. ALL EXCAVATIONS FOR UTILITIES WITHIN THE RIGHT-OF-WAY MUST BE BACKFILLED, COMPACTED AND PATCHED WITH IN-KIND MATERIALS TO MATCH THE EXISTING LINE AND GRADE IN ACCORDANCE WITH NYS DOT SPECIFICATIONS.

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New Construction - Phase 1

Town / Village of Harrison

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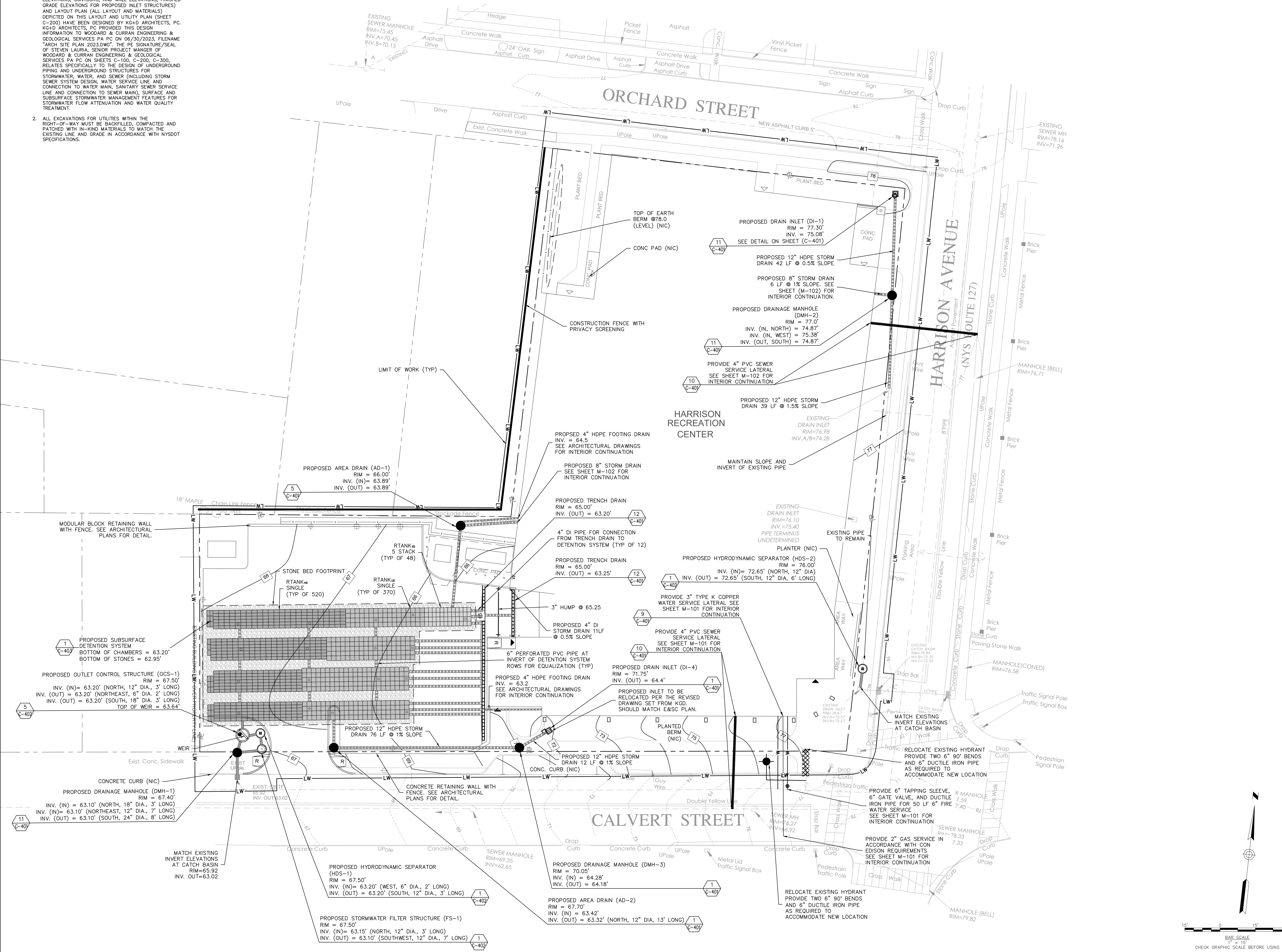


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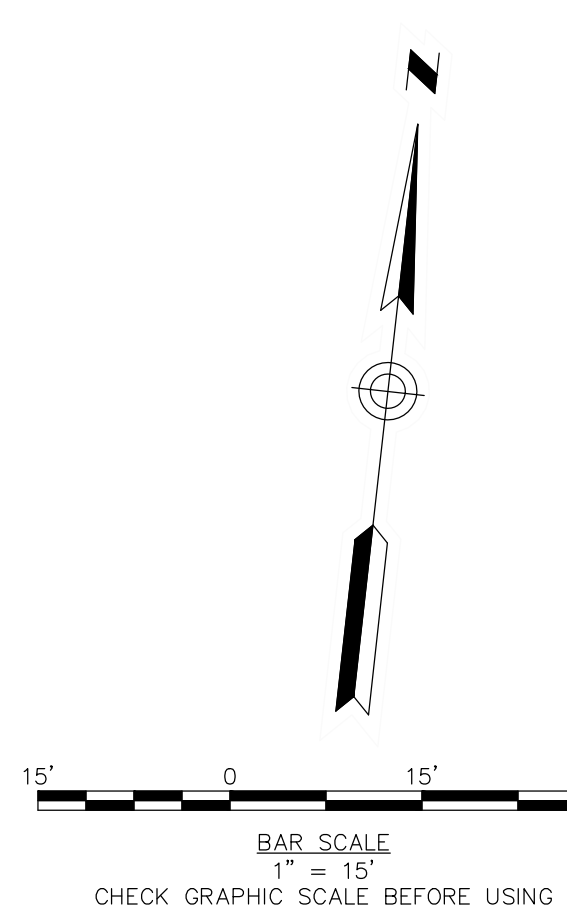
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Sheet Title
No. _____
Date _____

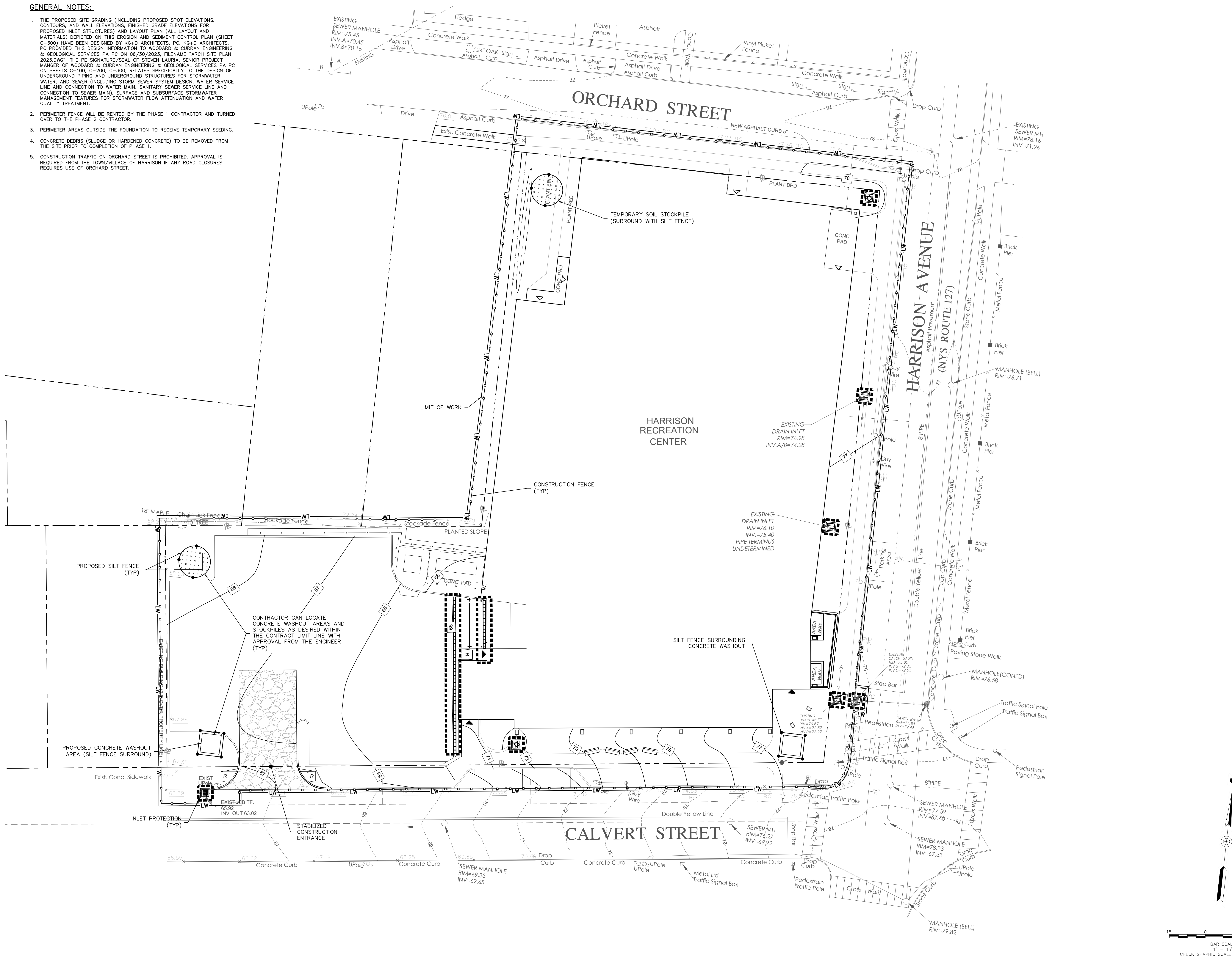
UTILITIES PLAN

Job No.	2020-1005	Date	07/07/2023
Scale	AS NOTED	Drawn / Checked	CJ/JLM
Sheet Number	C-200		



GENERAL NOTES:

1. THE PROPOSED SITE GRADING (INCLUDING PROPOSED SPOT ELEVATIONS, CONTOURS, AND WALL ELEVATIONS, FINISHED GRADE ELEVATIONS FOR PROPOSED INLET STRUCTURES) AND LAYOUT PLAN (ALL LAYOUT AND MATERIALS) DEPICTED ON THIS EROSION AND SEDIMENT CONTROL PLAN (SHEET C-300) HAVE BEEN DESIGNED BY KG+D ARCHITECTS, PC. KG+D ARCHITECTS, PC PROVIDED THIS DESIGN INFORMATION TO WOODARD & CURRAN ENGINEERING & GEOLOGICAL SERVICES PA PC ON 06/30/2023, FILENAME "ARCH SITE PLAN 2023.DWG". THE PE SIGNATURE/SEAL OF STEVEN LAURIA, SENIOR PROJECT MANAGER OF WOODARD & CURRAN ENGINEERING & GEOLOGICAL SERVICES PA PC ON SHEETS C-100, C-200, C-300, RELATES SPECIFICALLY TO THE DESIGN OF UNDERGROUND PIPING AND UNDERGROUND STRUCTURES FOR STORMWATER, WATER, AND SEWER (INCLUDING STORM SEWER SYSTEM DESIGN, WATER SERVICE LINE AND CONNECTION TO WATER MAIN, SANITARY SEWER SERVICE LINE AND CONNECTION TO SEWER MAIN), SURFACE AND SUBSURFACE STORMWATER MANAGEMENT FEATURES FOR STORMWATER FLOW ATTENUATION AND WATER QUALITY TREATMENT.
2. PERIMETER FENCE WILL BE RENTED BY THE PHASE 1 CONTRACTOR AND TURNED OVER TO THE PHASE 2 CONTRACTOR.
3. PERIMETER AREAS OUTSIDE THE FOUNDATION TO RECEIVE TEMPORARY SEEDING.
4. CONCRETE DEBRIS (SLUDGE OR HARDENED CONCRETE) TO BE REMOVED FROM THE SITE PRIOR TO COMPLETION OF PHASE 1.
5. CONSTRUCTION TRAFFIC ON ORCHARD STREET IS PROHIBITED. APPROVAL IS REQUIRED FROM THE TOWN/VILLAGE OF HARRISON IF ANY ROAD CLOSURES REQUIRES USE OF ORCHARD STREET.



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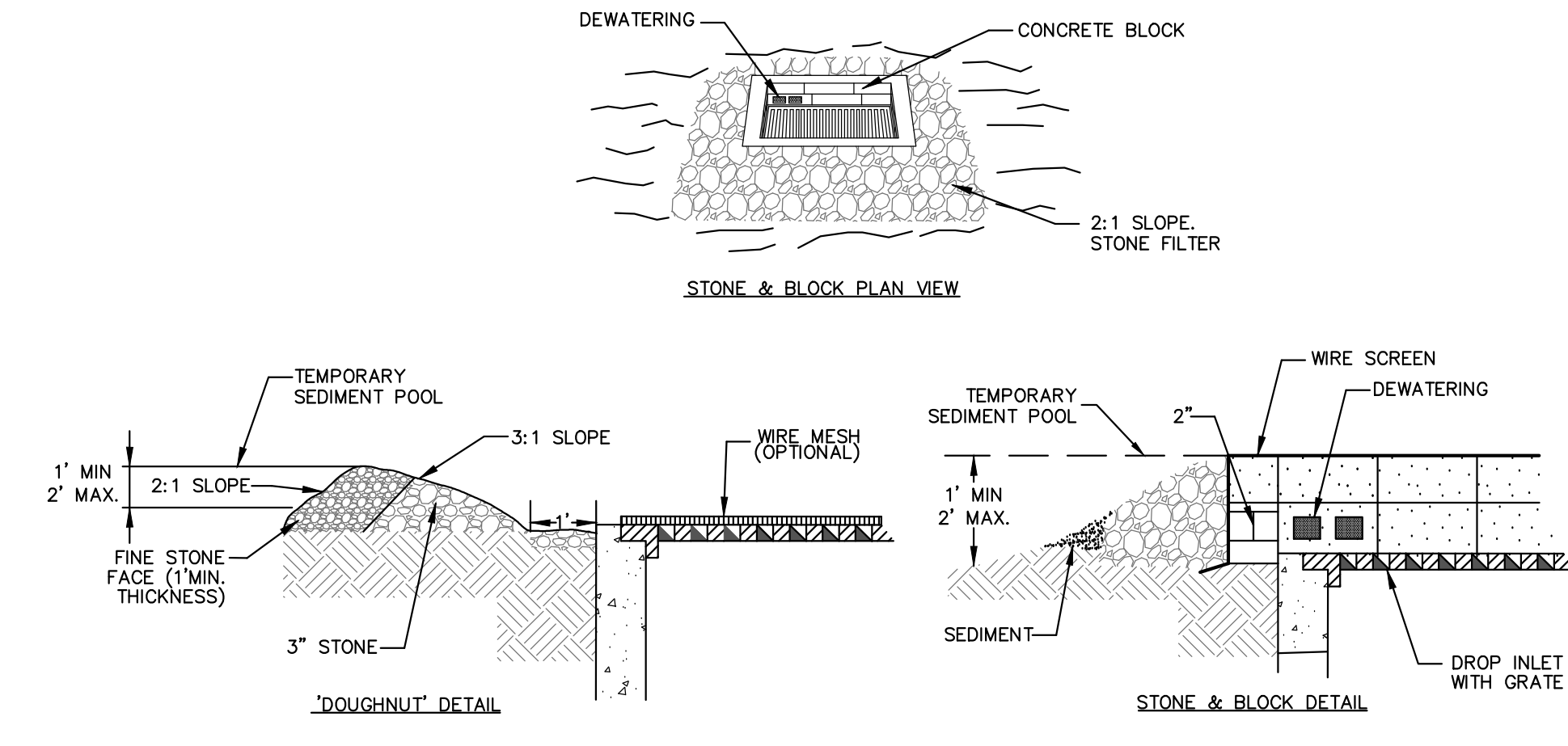
No. _____ Date _____ Issue _____

Sheet Title: **EROSION & SEDIMENT CONTROL PLAN**

Job No. 2020-1005 Date 07/07/2023

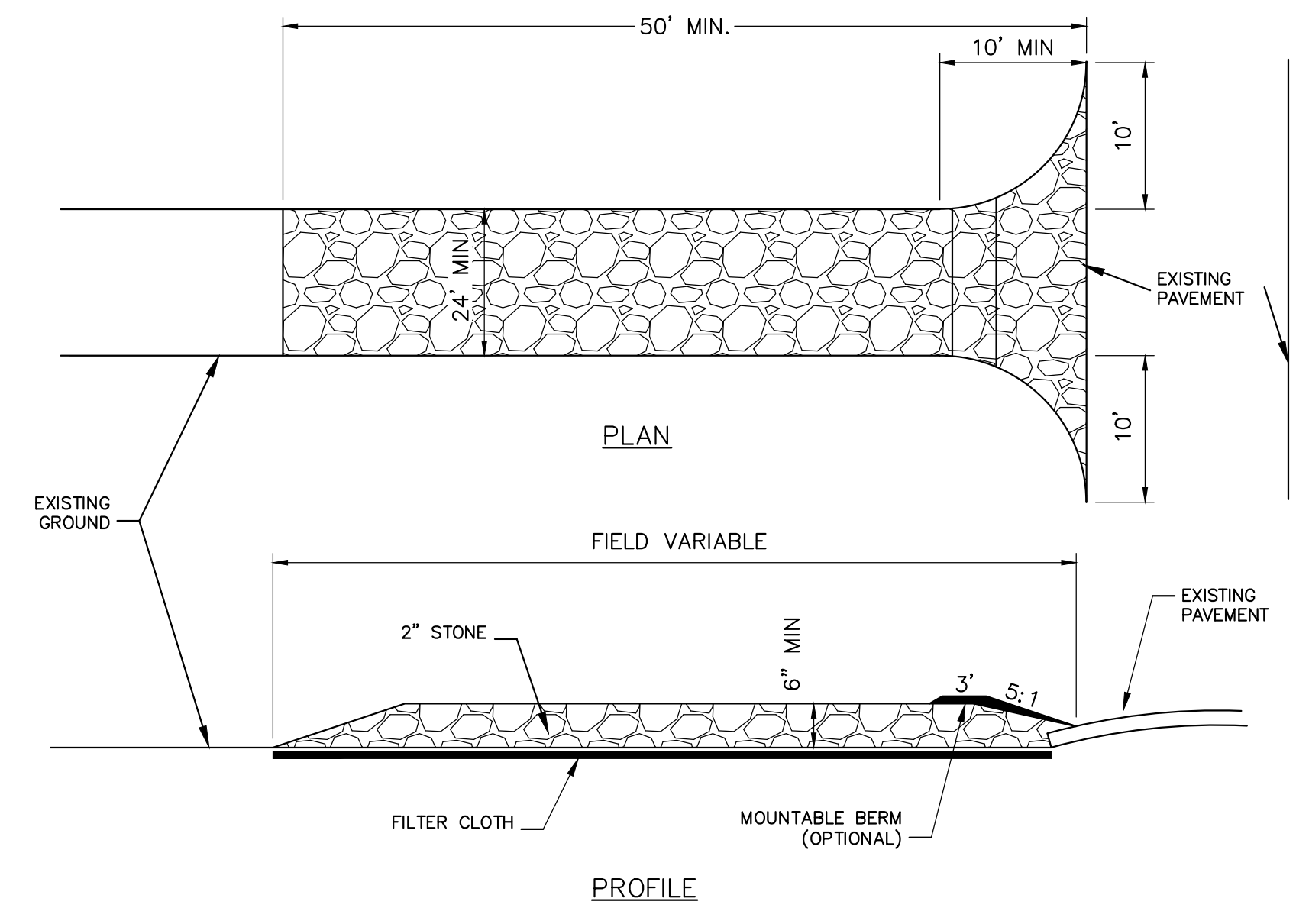
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Sheet Number **C-300**

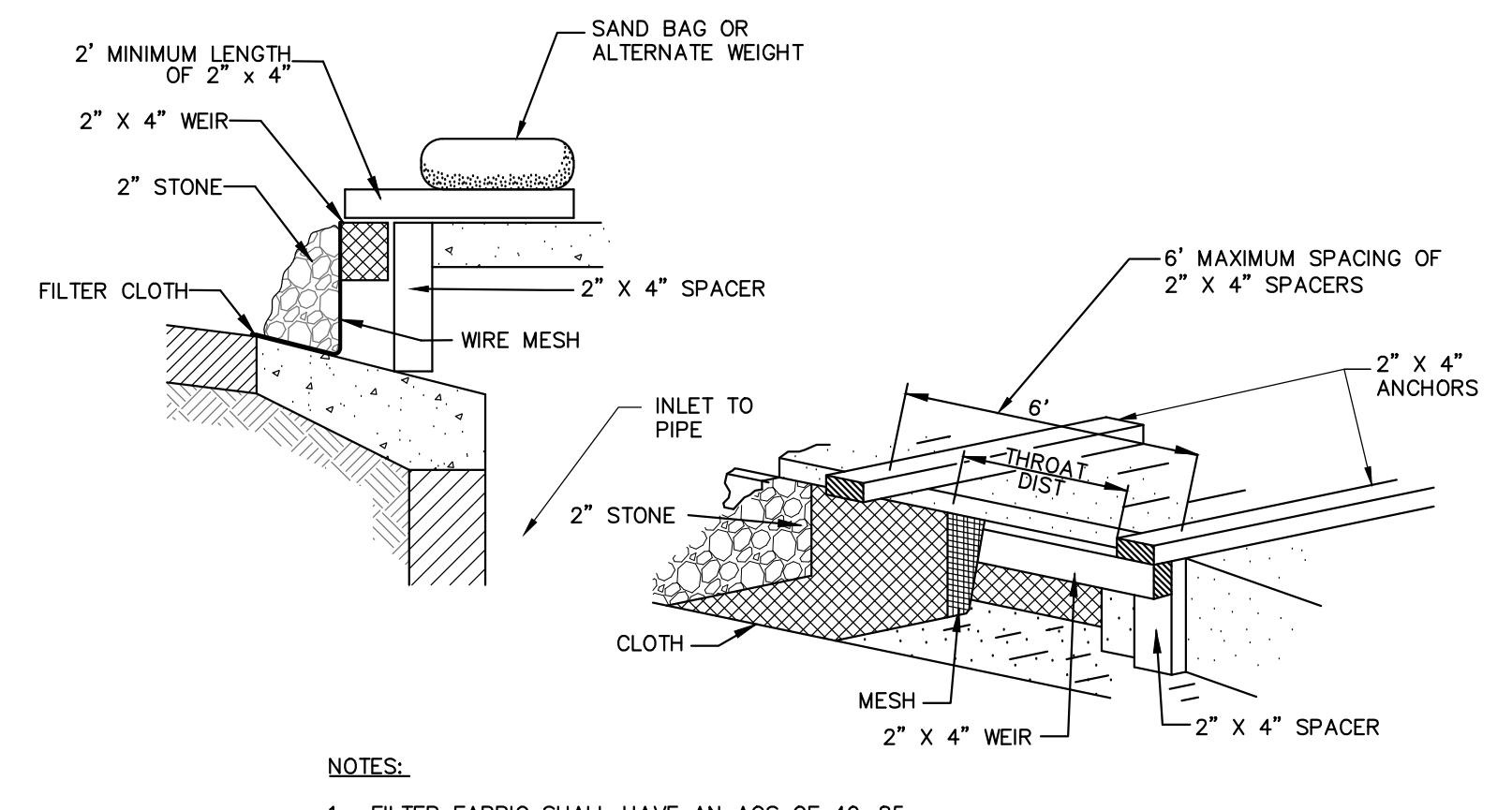


- NOTES:**
- LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
 - HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
 - USE CLEAN STONE OR GRAVEL 1/2 TO 3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
 - FOR STONE STRUCTURES ONLY. A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.
- MAXIMUM DRAINAGE AREA 1 ACRE

1 STONE AND BLOCK DROP INLET PROTECTION
NOT TO SCALE

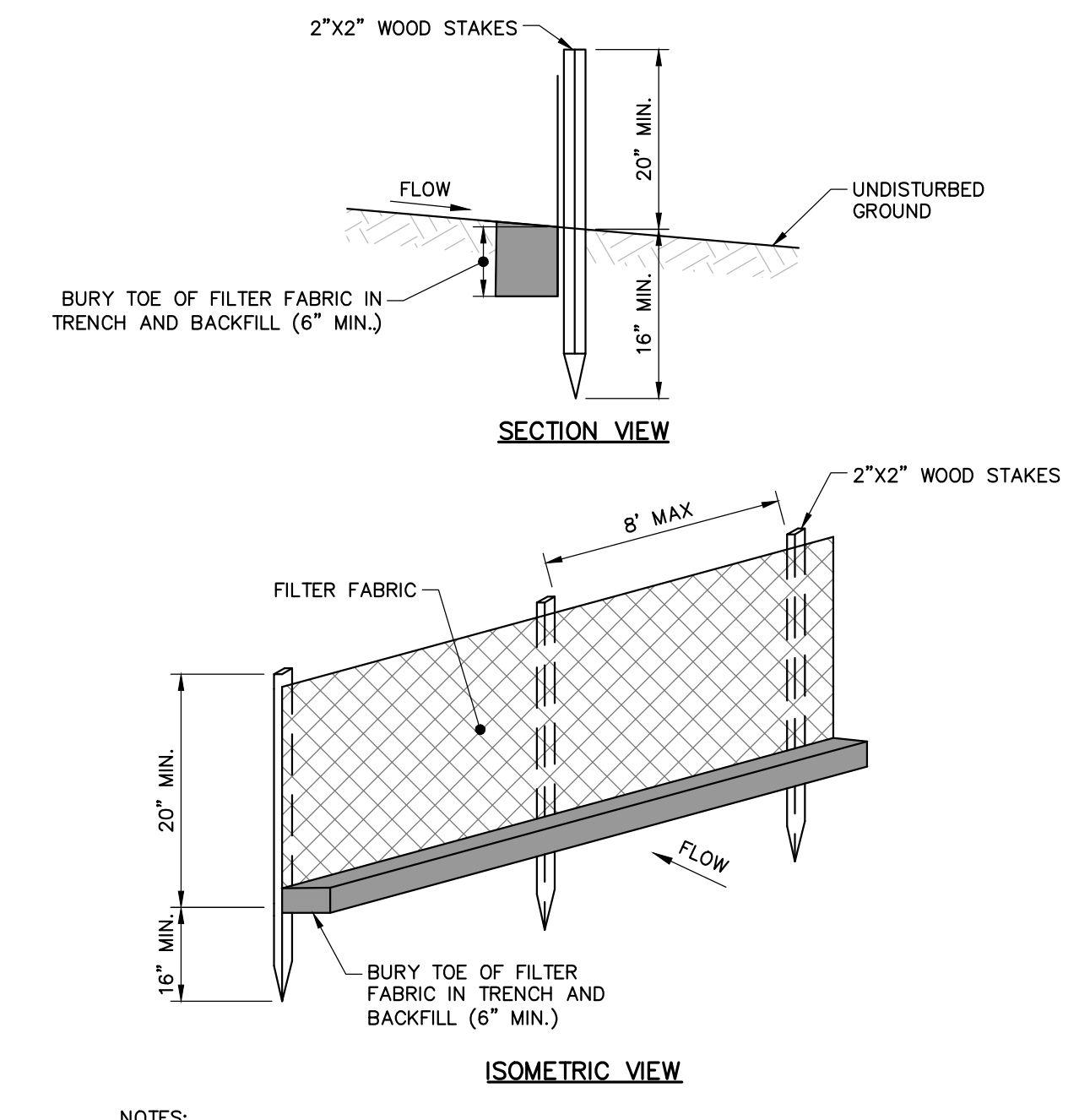


- CONSTRUCTION SPECIFICATIONS:**
- USE 2" DIAMETER STONE OR RECLAIMED/RECYCLED CONCRETE EQUIVALENT.
 - RECOMMENDED LENGTH GREATER THAN 50 FEET WHERE PRACTICAL.
 - THICKNESS NOT LESS THAN 6 INCHES.
 - 24 FOOT MINIMUM WIDTH, BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCUR. CONTRACTOR SHALL PROVIDE 24" WIDTH WHEREVER POSSIBLE (WITHOUT DISTURBING EXISTING STRUCTURES OR EXISTING TREES TO REMAIN).
 - FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- CONSTRUCTION SPECIFICATIONS:**
- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WILL BE PERMITTED.
 - ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED BY THE CONTRACTOR.
 - REMOVE STABILIZED CONSTRUCTION ENTRANCE PRIOR TO PLACEMENT OF BITUMINOUS CONCRETE PAVEMENT.



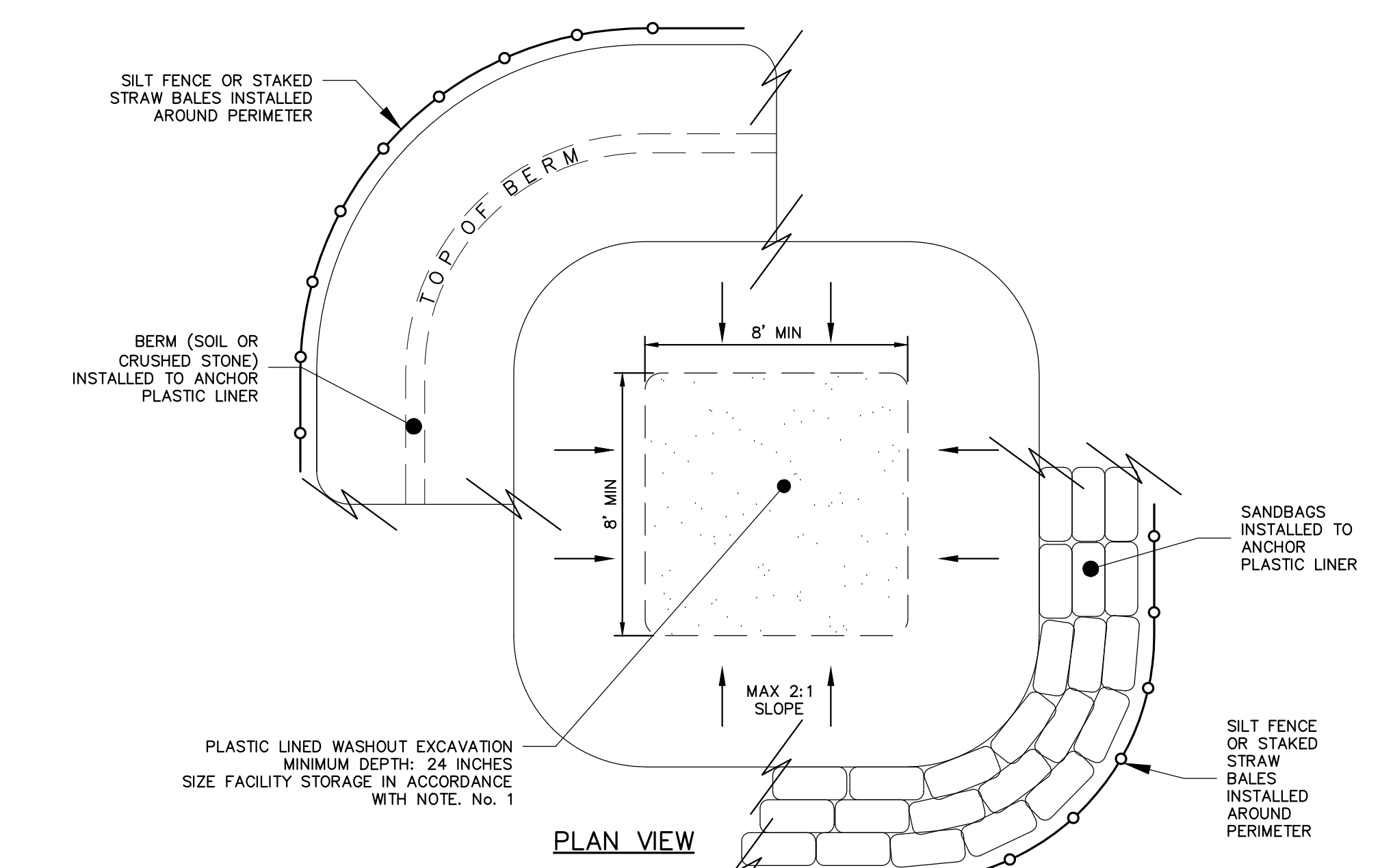
- NOTES:**
- FILTER FABRIC SHALL HAVE AN AOS OF 40-85.
 - WOODEN FRAME SHALL BE CONSTRUCTED OF 2" X 4" CONSTRUCTION GRADE LUMBER.
 - WIRE MESH ACROSS THROAT SHALL BE A CONTINUOUS PIECE 30 INCH MINIMUM WIDTH WITH A LENGTH 4 FEET LONGER THAN THE THROAT. IT SHALL BE SHAPED AND SECURELY NAILED TO A 2" X 4" WEIR.
 - THE WEIR SHALL BE SECURELY NAILED TO 2" X 4" SPACERS 9 INCHES LONG SPACED NO MORE THAN 6 FEET APART.
 - THE ASSEMBLY SHALL BE PLACED AGAINST THE INLET AND DAMAGED TO SUPPORTS. REPAIR AS NECESSARY. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES A DEPTH OF SIX-INCHES OR MORE.
- MAXIMUM DRAINAGE AREA 1 ACRE

3 CURB INLET PROTECTION
NOT TO SCALE



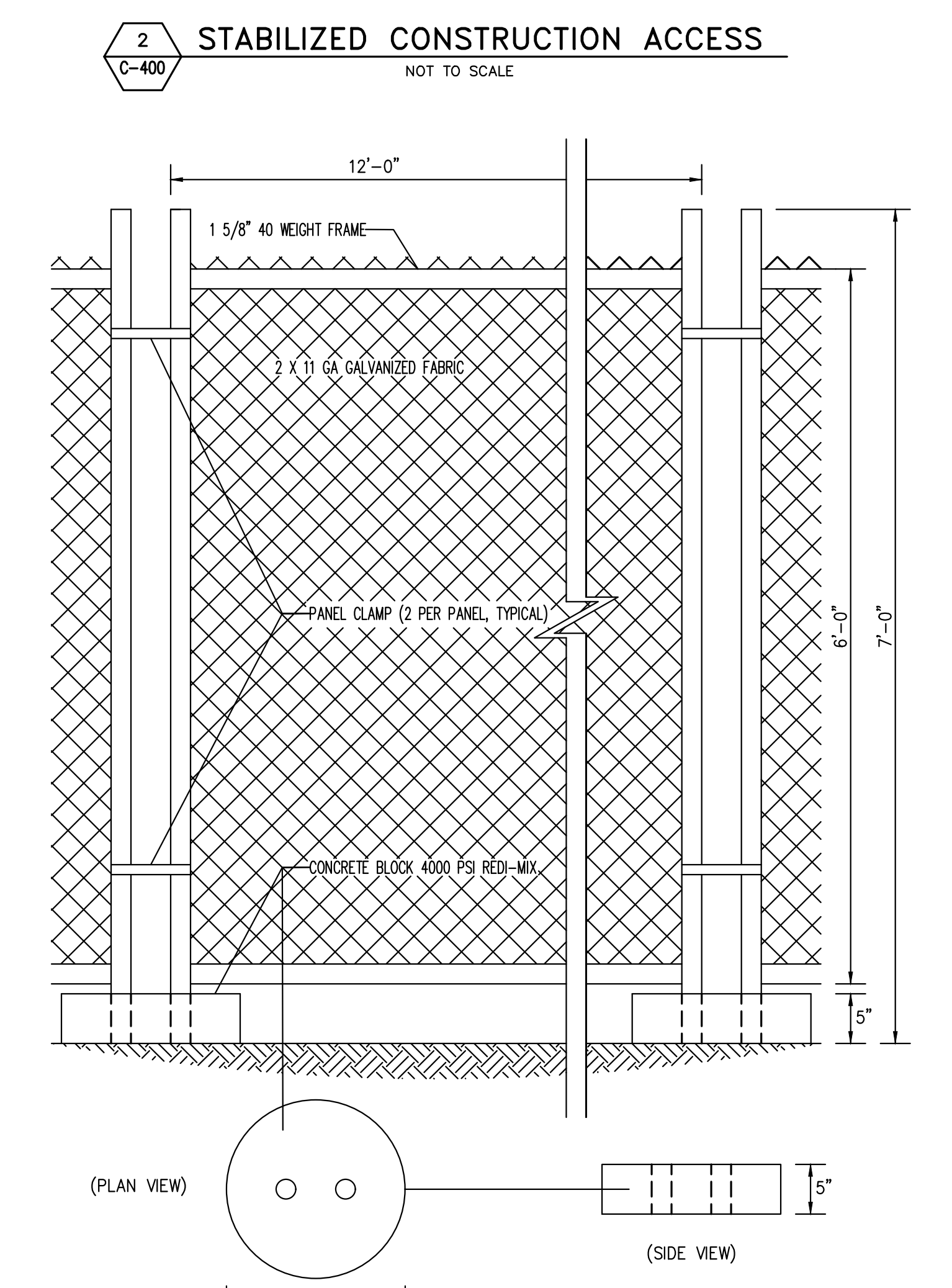
- NOTES:**
- INSTALL FABRIC ON UPHILL SIDE OF WOOD STAKES.
 - SPACING BETWEEN WOOD STAKES PER MANUFACTURER'S RECOMMENDATION.
 - SILT FENCE WILL NOT BE USED IN DRAINAGEWAYS.
 - MAINTENANCE: INSPECT FOR TEARS IN THE FABRIC OR DAMAGE TO SUPPORTS. REPAIR AS NECESSARY. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES A DEPTH OF SIX-INCHES OR MORE.
 - REMOVAL: WHEN UPSLOPE AREAS ARE STABILIZED, THE STRUCTURE AND ANY ACCUMULATED SEDIMENT WILL BE REMOVED.

4 SILT FENCE
NOT TO SCALE



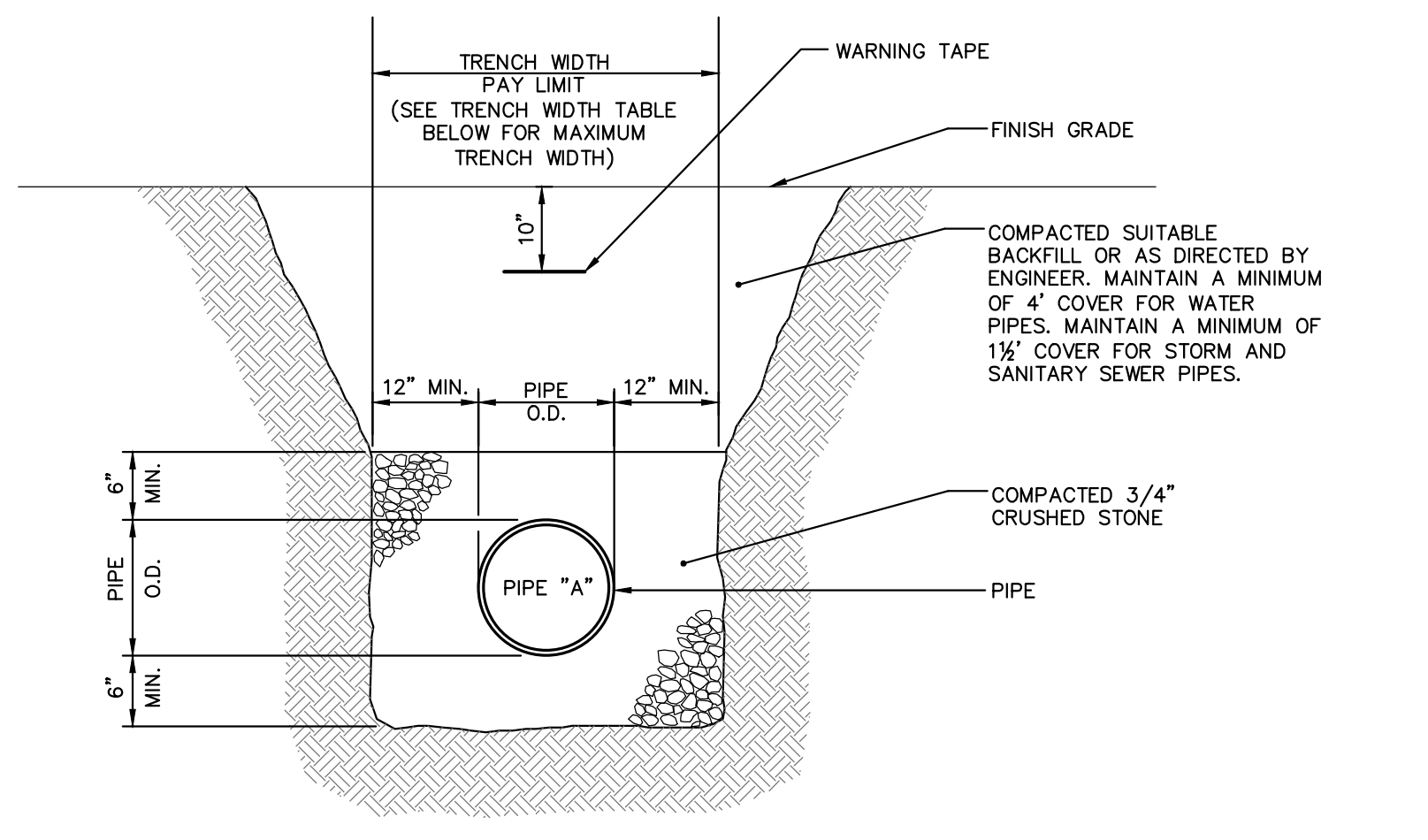
- NOTES:**
- SIZE WASHOUT FACILITY TO PROVIDE REQUIRED CAPACITY TO ALLOW FOR PLANNED CONCRETE POUR ACTIVITIES BETWEEN FACILITY MAINTENANCE AS DESCRIBED IN NOTE 9. THE FOLLOWING RELATIONSHIPS CAN BE USED TO ESTIMATE REQUIRED CAPACITY. MINIMUM FACILITY DIMENSIONS SHALL BE CONSTRUCTED AS NOTED ON DETAIL.
 - CONCRETE WASHOUT FACILITY SHALL BE CONSTRUCTED, INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE NYSDEC NEW YORK STANDARDS & SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, LATEST EDITION.
 - LOCATE WASHOUT FACILITY MINIMUM OF 100 FEET AWAY FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS AND OTHER SURFACE WATERS.
 - WASHOUT FACILITY SHALL BE LINED WITH MINIMUM 10 MIL THICKNESS PLASTIC SHEETING OR EQUIVALENT WATER TIGHT BARRIER PROVIDED BY THE ENGINEER.
 - LINER SHALL BE MAINTAINED FREE OF TEARS AND PUNCTURES AT ALL TIMES.
 - ANCHOR LINER AT TOP OF EXCAVATION WITH EARTHEN BERM, SANDBAGS OR STONE AS SHOWN ON THE DETAIL.
 - SURROUND WASHOUT FACILITY WITH SILT FENCE OR STAKED STRAW BALES.
 - ALL WASHOUT FACILITIES SHALL BE INSPECTED DAILY.
 - ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75 PERCENT OF THE STORAGE CAPACITY OF THE STRUCTURE IS FILLED. ANY EXCESS WASH WATER SHALL BE PUMPED INTO AN ACCEPTABLE CONTAINMENT VESSEL AND DISPOSED OFFSITE IN ACCORDANCE WITH LOCAL REGULATIONS.
 - PLASTIC LINER SHALL BE REPLACED WITH REMOVAL OF ACCUMULATED HARDENED MATERIAL.
 - LOCATION TO BE APPROVED BY ENGINEER.

5 CONCRETE WASHOUT AREA
NOT TO SCALE



- NOTES:**
- CONTRACTOR SHALL PROVIDE PERIODIC INSPECTION AND MAINTENANCE OF FENCE INCLUDING REPAIRS AS NECESSARY AND REQUIRED.
 - PROVIDE PRIVACY SCREEN WHERE SHOWN ON PLAN.

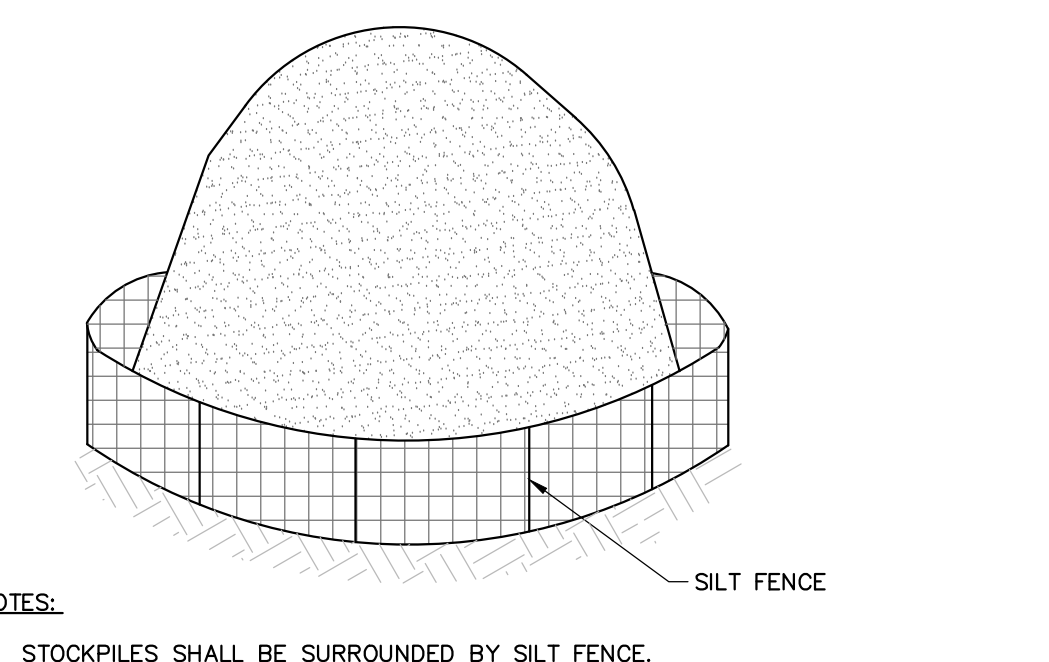
6 TEMPORARY CHAIN LINK CONSTRUCTION FENCE
NOT TO SCALE



TRENCH WIDTHS (a)	
PIPE SIZE	MAX (ONE PIPE)(b)
15" OR LESS	4'-0"
18"	5'-0"
24"	5'-6"
30"	6'-0"
36"	6'-6"
42"	7'-0"
48"	7'-6"
MANHOLES	O.D. + 4'-0"

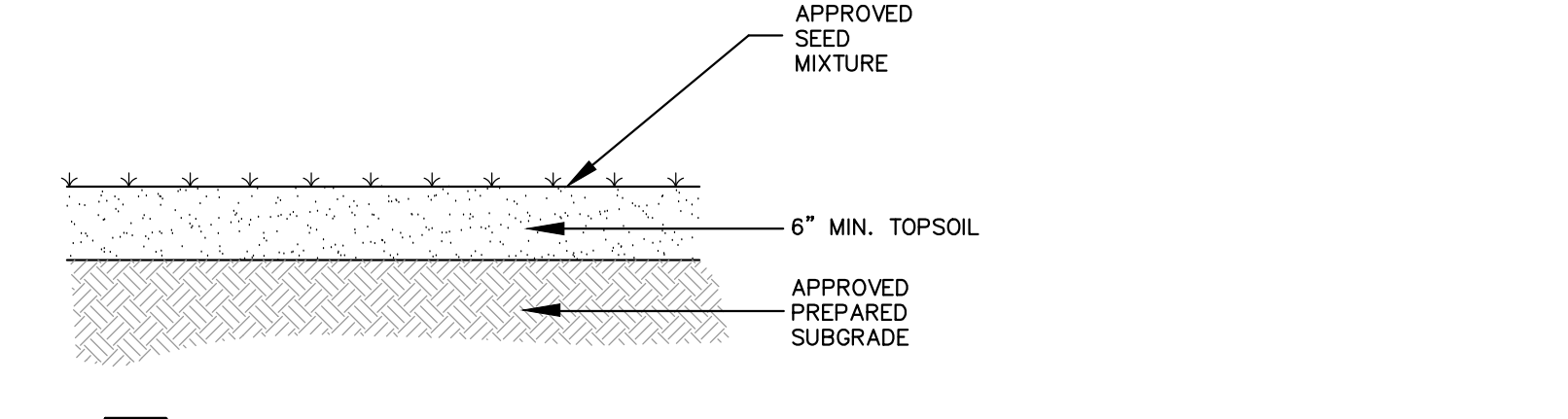
- NOTES:**
- MAINTAIN UNIFORM TRENCH WIDTH TO 6" OVER PIPE.
 - IF SHEETING IS REQUIRED TO REMAIN, CUT OFF TWO (2) FEET BELOW FINISH GRADE.
 - NO PAYMENT WILL BE MADE FOR SHEETING LEFT IN PLACE UNLESS DIRECTED BY ENGINEER.
 - IF GROUNDWATER IS ENCOUNTERED, WRAP STONE WITH MIRAFIT 140N FILTER FABRIC OR APPROVED EQUAL.
 - SEE PAVEMENT REPAIR DETAILS FOR ROAD WORK AREAS.
 - PROVIDE 6" MIN. BEDDING FOR AREAS OF EXCAVATION IN ROCK.
- a. REPRESENTS PAYMENT WIDTH
b. FOR ROCK EXCAVATION SUBTRACT 1'-0"

7 TYPICAL PIPE TRENCH
NOT TO SCALE



- NOTES:**
- STOCKPILES SHALL BE SURROUNDED BY SILT FENCE.
 - STOCKPILES SHALL HAVE A MAXIMUM 2:1 (H:V) SIDE SLOPE.
 - REPAIR OR REPLACE DAMAGED SILT FENCE DUE TO CONSTRUCTION ACTIVITIES OR STOCKPILE MITIGATION.
 - STOCKPILE SHALL BE LOCATED IN AREAS AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER.

8 TEMPORARY SOIL STOCKPILE
NOT TO SCALE



9 LAWN RESTORATION
NOT TO SCALE

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Sheet Title

CONSTRUCTION DETAILS

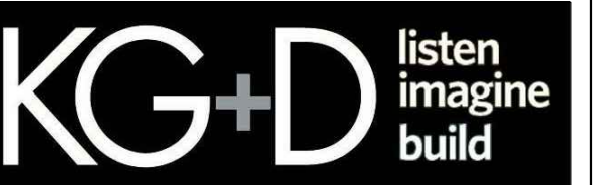
Job No.	2020-1005	Date	06/29/2023
Scale	AS NOTED	Drawn / Checked	CJL/JLMT
Sheet Number			

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New Construction - Phase 1

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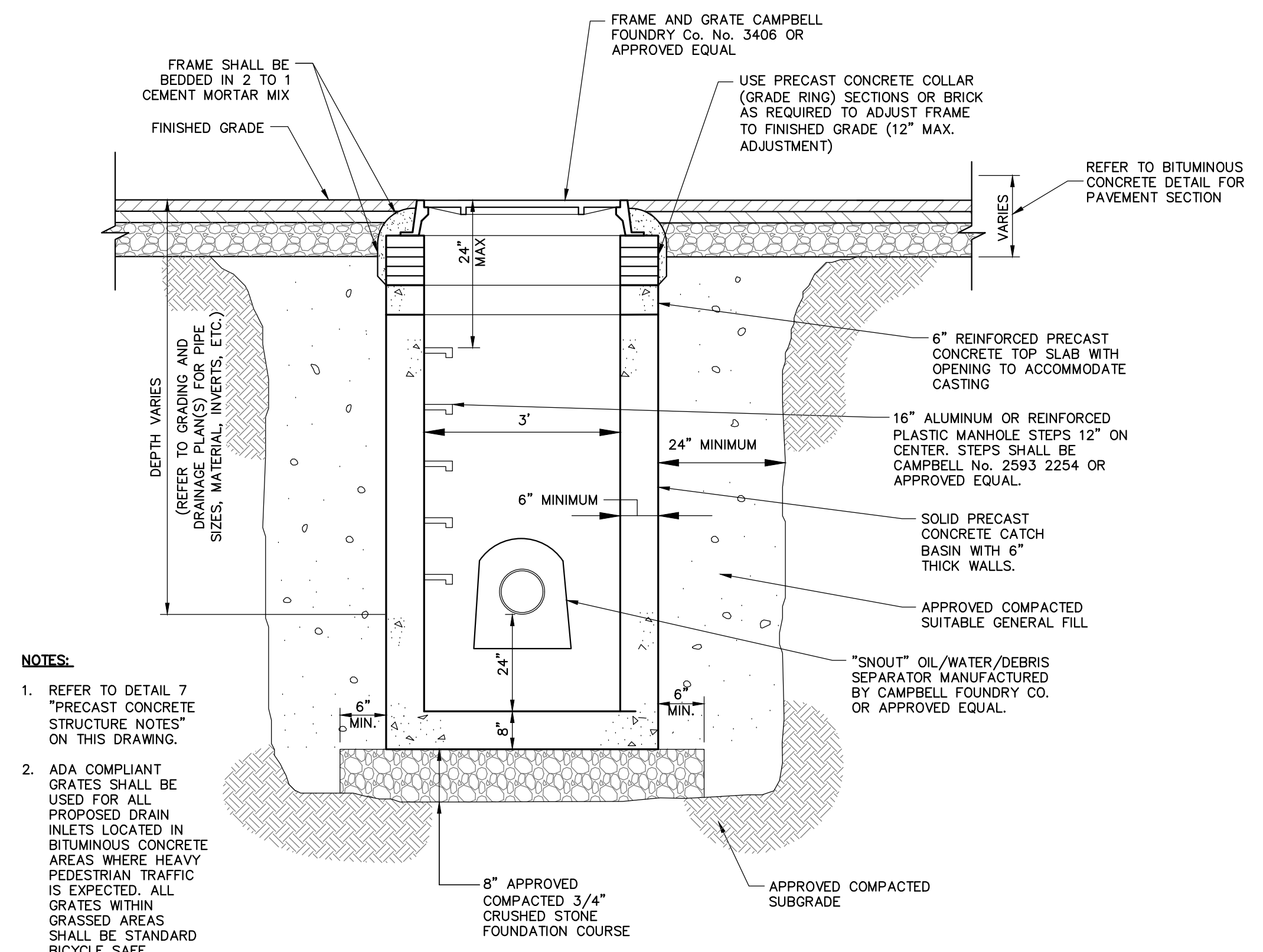
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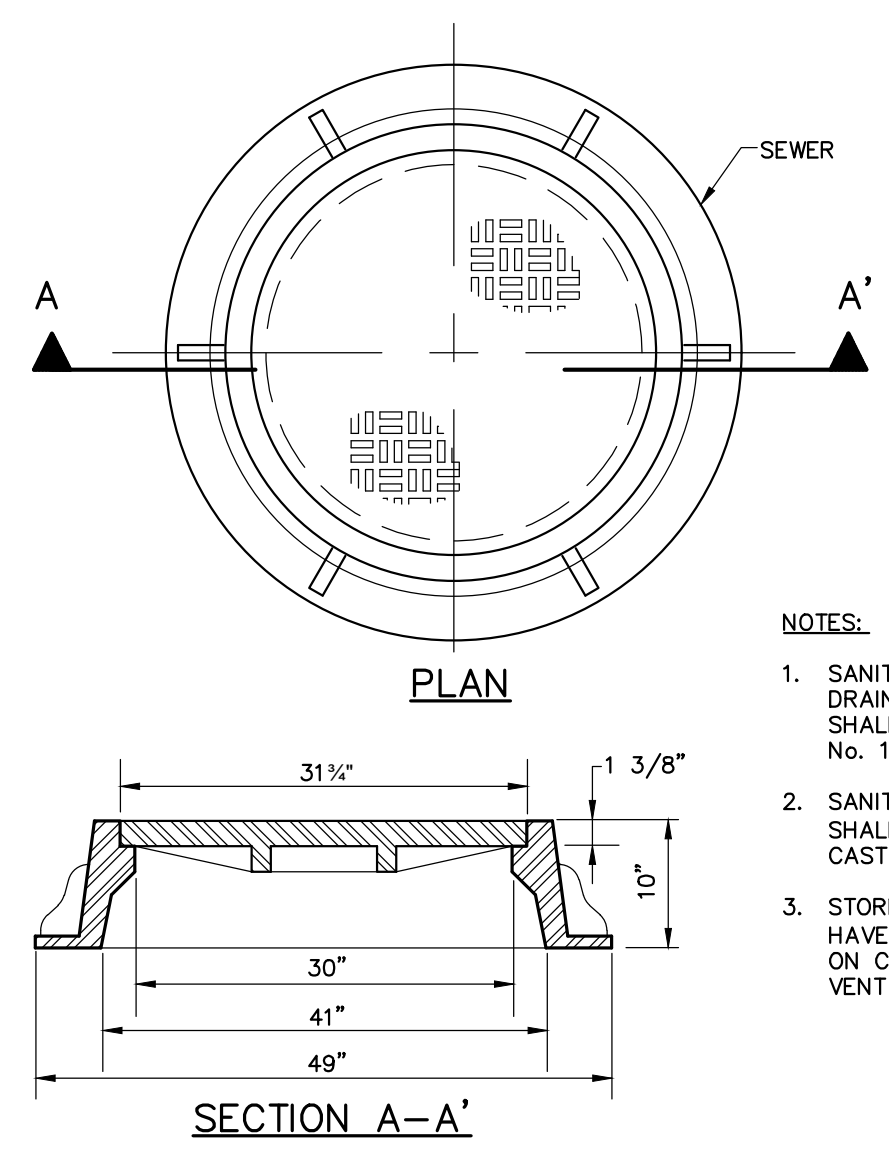
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CONSTRUCTION DOCUMENTS

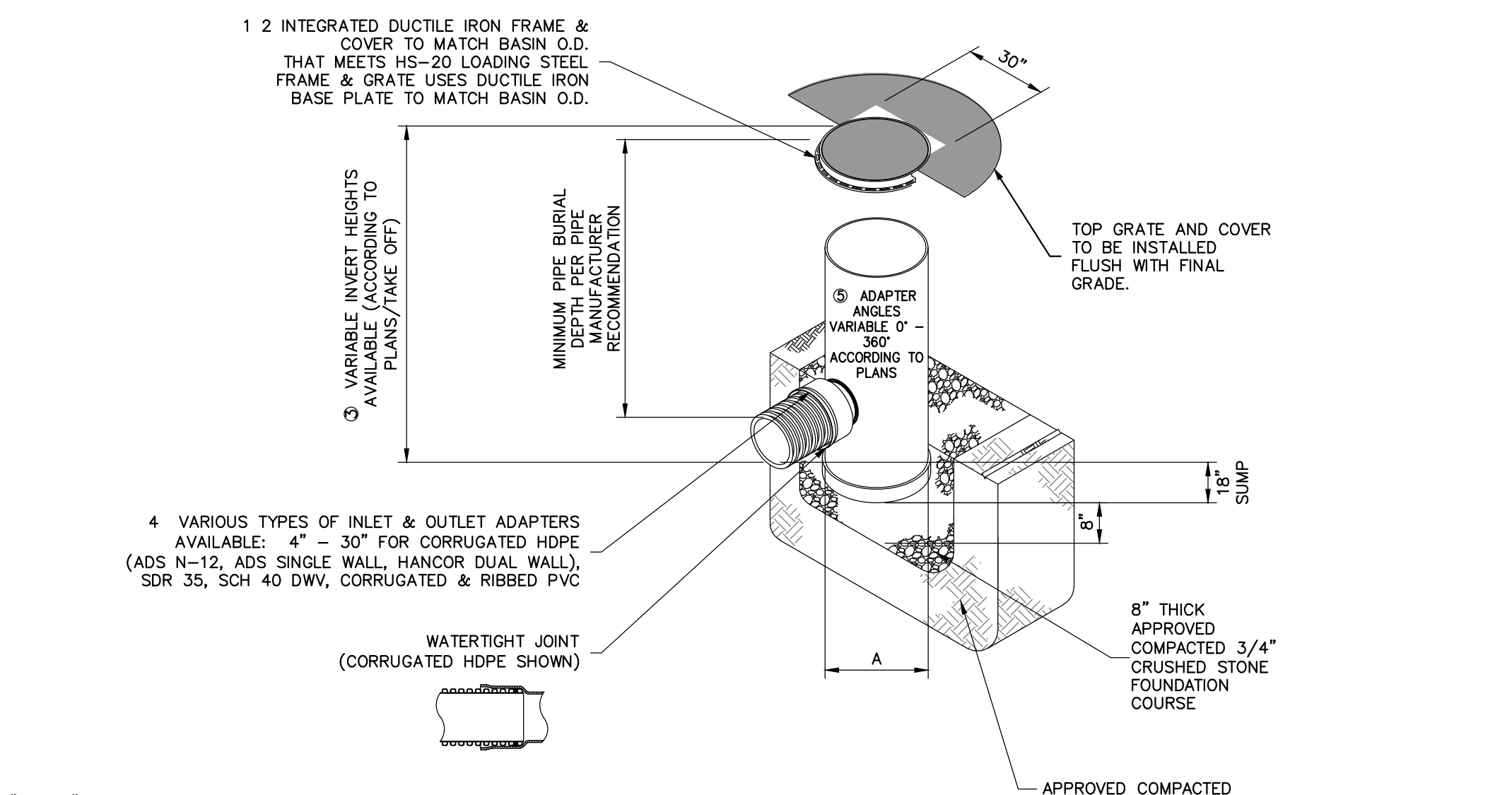


1 DRAIN INLET (CATCH BASIN)
C-401 NOT TO SCALE



2 MANHOLE FRAME & COVER
C-401 NOT TO SCALE

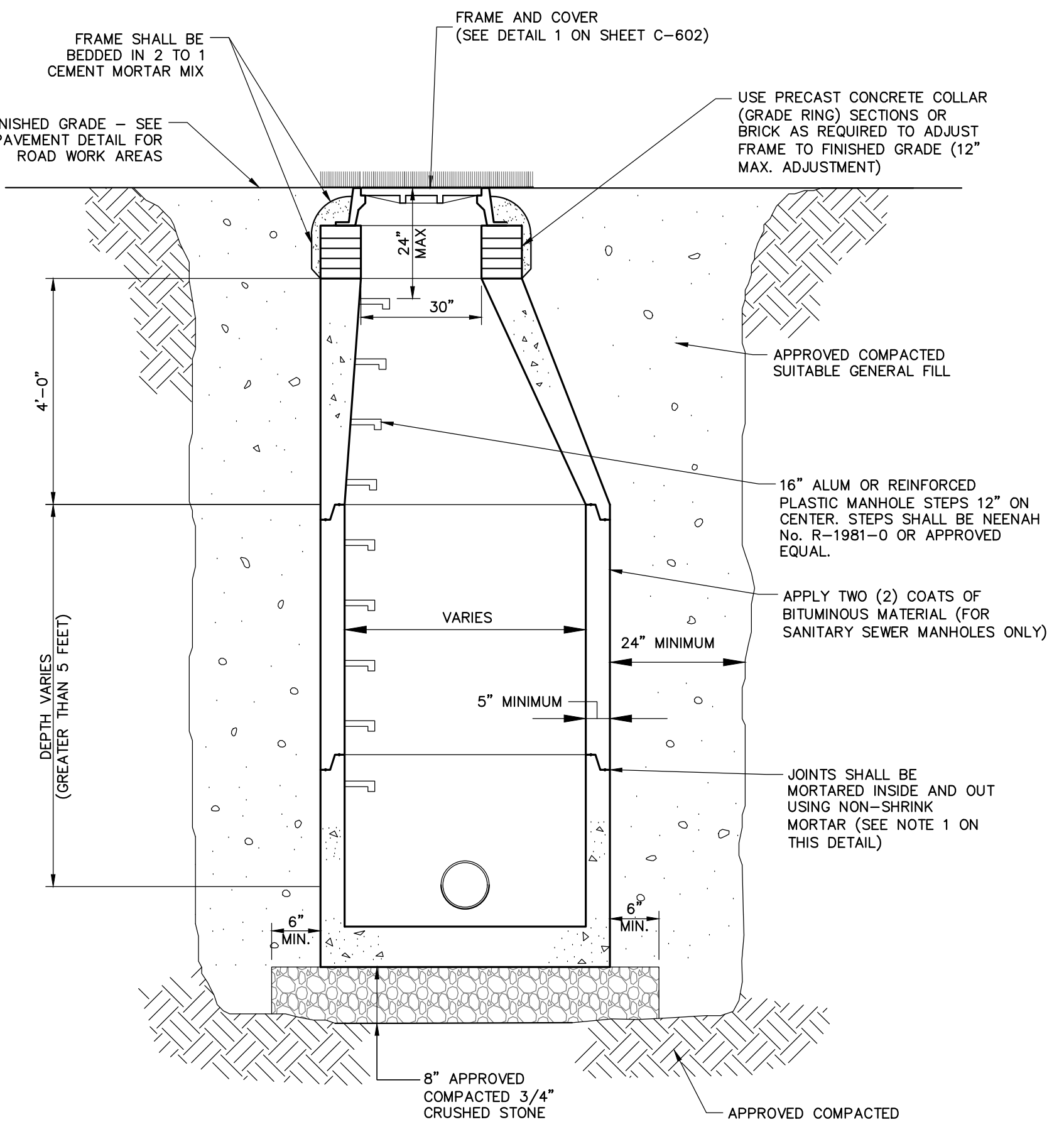
- NOTES:**
- SANITARY SEWER AND STORM DRAIN MANHOLE FRAMES COVERS SHALL BE CAMPBELL FOUNDRY NO. 1008 OR APPROVED EQUAL.
 - SANITARY SEWER MANHOLES SHALL HAVE THE WORD 'SEWER' CAST ON COVER. COVER SHALL HAVE VENT HOLES.
 - STORM SEWER MANHOLES SHALL HAVE THE WORD 'DRAIN' CAST ON COVER. COVER SHALL HAVE VENT HOLES.



5 AREA DRAIN
C-401 NOT TO SCALE

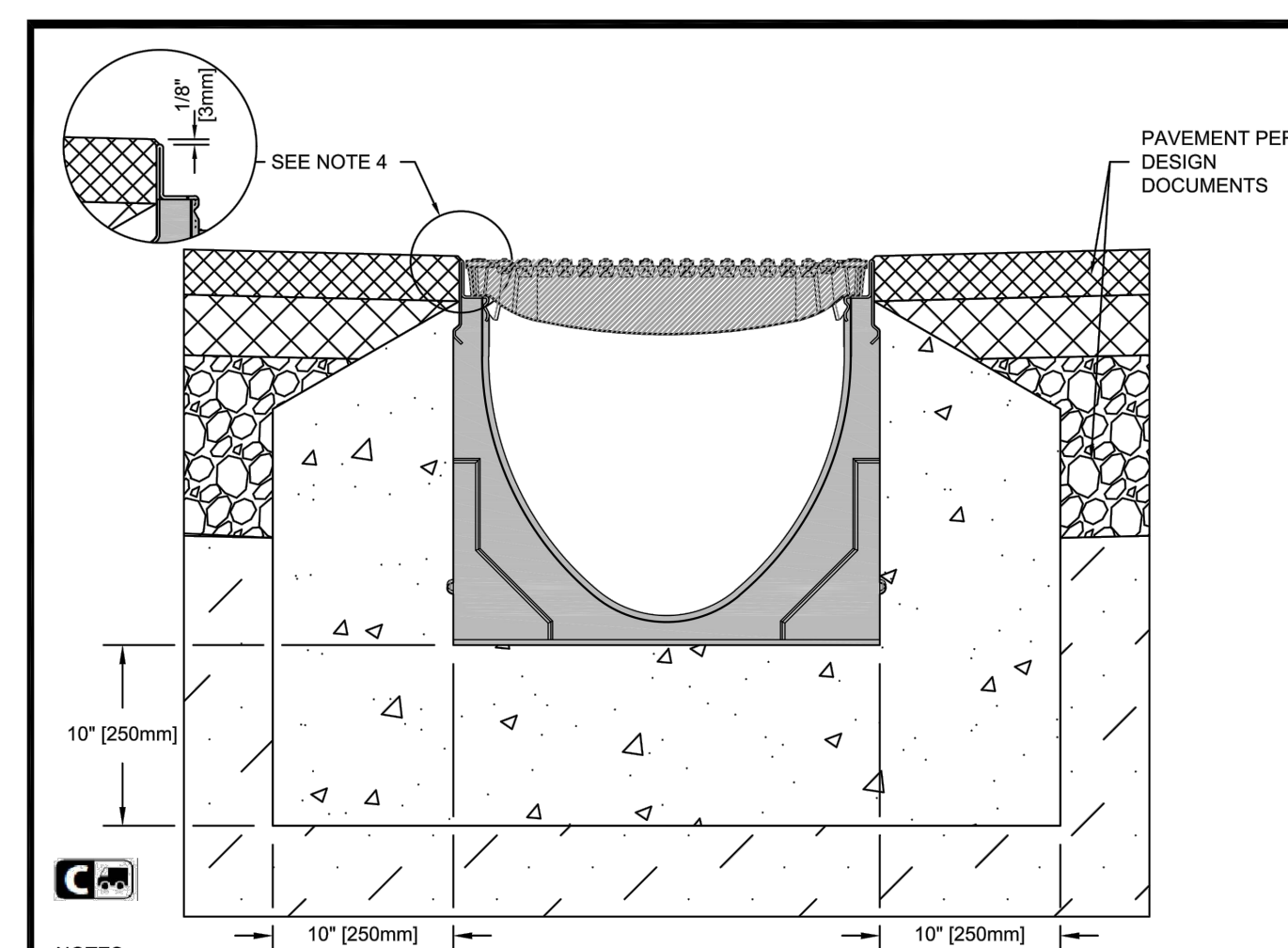
- NOTES:**
- 12" - 30" FRAMES, GRATES, & BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 - 12" - 30" FRAMES & GRATES SHALL BE STEEL PER ASTM A36.
 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC.
 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360° TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012, 7001-110-013, & 7001-110-014.
 - ALL OPTIONS SHALL MEET HS-20 LOAD RATING.

- NOTES:**
- INSTALL BASIN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



11 TRENCH DRAIN
C-401 SCALE: N.T.S.

- NOTES:**
- THE WIDTH OF THE MANHOLE WILL BE A MINIMUM OF 4' EXCEPT WHERE A NEW MANHOLE WITH A DROP CONNECTION IS SHOWN. THEN THE MINIMUM WIDTH OF THE MANHOLE IS 5'.
 - PRECAST CONCRETE STRUCTURES AND CASTINGS SHALL BE SUITABLE FOR HS-20 LOADINGS.
 - PRECAST CONCRETE STRUCTURES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C-478.
 - ALTERNATE TOP SLAB MAY BE USED AS DICTATED BY DESIGN AND/OR FIELD CONDITIONS.
 - MANHOLE FRAME AND GRATE(S) SHALL MEET MUNICIPAL AND STATE SPECIFICATIONS WHEN APPLICABLE.
 - REFER TO PROJECT SPECIFICATIONS FOR MORE DRAINAGE MANHOLE INFORMATION.
 - JOINT SEALANT BETWEEN SECTIONS SHALL BE BUTYL RUBBER.
 - PROVIDE ANTI-FLOTATION SLAB EXTENSION AS REQUIRED TO SATISFY ANTI-FLOTATION REQUIREMENTS.



SPECIFICATION CLAUSE

K300 KLASSIKRAIN 'DRAINLOK' LOAD CLASS C

GENERAL: THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE K300 CHANNEL SYSTEM WITH GALVANIZED STEEL EDGE RAILS AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

MATERIALS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN GALVANIZED STEEL EDGE RAIL. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:

COMPRESSIVE STRENGTH:	14,000 PSI
FLEXURAL STRENGTH:	4,000 PSI
TENSILE STRENGTH:	1,500 PSI
WATER ABSORPTION:	0.07%
FROST PROOF:	YES
DILUTE ACID AND ALKALI RESISTANT:	YES
B117 SALT SPRAY TEST COMPLIANT:	YES

THE SYSTEM SHALL BE 12" (300mm) NOMINAL INTERNAL WIDTH WITH A 14.2" (360mm) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL INVERT SHALL HAVE DEVELOPED "T" SHAPE. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

CHANNEL SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. GRATE TYPE SHALL BE APPROPRIATE TO MEET THE SYSTEM LOAD CLASS SPECIFICATIONS AND INTENDED APPLICATION. GRATES SHALL BE SECURED USING 'DRAINLOK' BOLTLESS LOCKING SYSTEM. CHANNEL AND GRATE SHALL BE CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

NOTES:

- IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS. ENGINEERING ADVICE MAY BE REQUIRED.
- MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
- EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. ENGINEERING ADVICE MAY BE REQUIRED.
- THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" (3mm) ABOVE THE TOP OF THE CHANNEL EDGE.
- CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS. ENGINEERING ADVICE MAY BE REQUIRED TO DETERMINE PROPER LOAD CLASS.
- REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

K3-C-HAP **K300 - KLASSIKRAIN - LOAD CLASS: C**
Haunched Asphalt Pavement

ACO Polymer Products, Inc.

825 W. Brookhurst St. Fort Mill, SC 29508
Casa Grande, AZ 85122
Tel: 520-421-9999
Fax: 520-421-9999

1670 Phoenix Dr. Mentor, OH 44060
Tel: 440-939-7200
Fax: 440-939-7235

Arizona Tel: 888-490-9552 e-mail: sales@acousa.com Ohio Tel: 800-543-4764 www.acousa.com South Carolina Tel: 800-543-4764

DATE: 08/15/16

8 TYPICAL WATER SERVICE CONNECTION
C-401 SCALE: N.T.S.

9 TYPICAL SEWER SERVICE CONNECTION
C-401 SCALE: N.T.S.

10 DRAINAGE MANHOLE
C-401 NOT TO SCALE

NOTE: ALL BEARINGS, DIMENSIONS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF KG+D ARCHITECTS, PC AND ARE HEREBY RESERVED FOR USE ON THE PROJECT. NONE OF SUCH DEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE REPRODUCED OR DISCLOSED TO ANY PERSON WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF KG+D.

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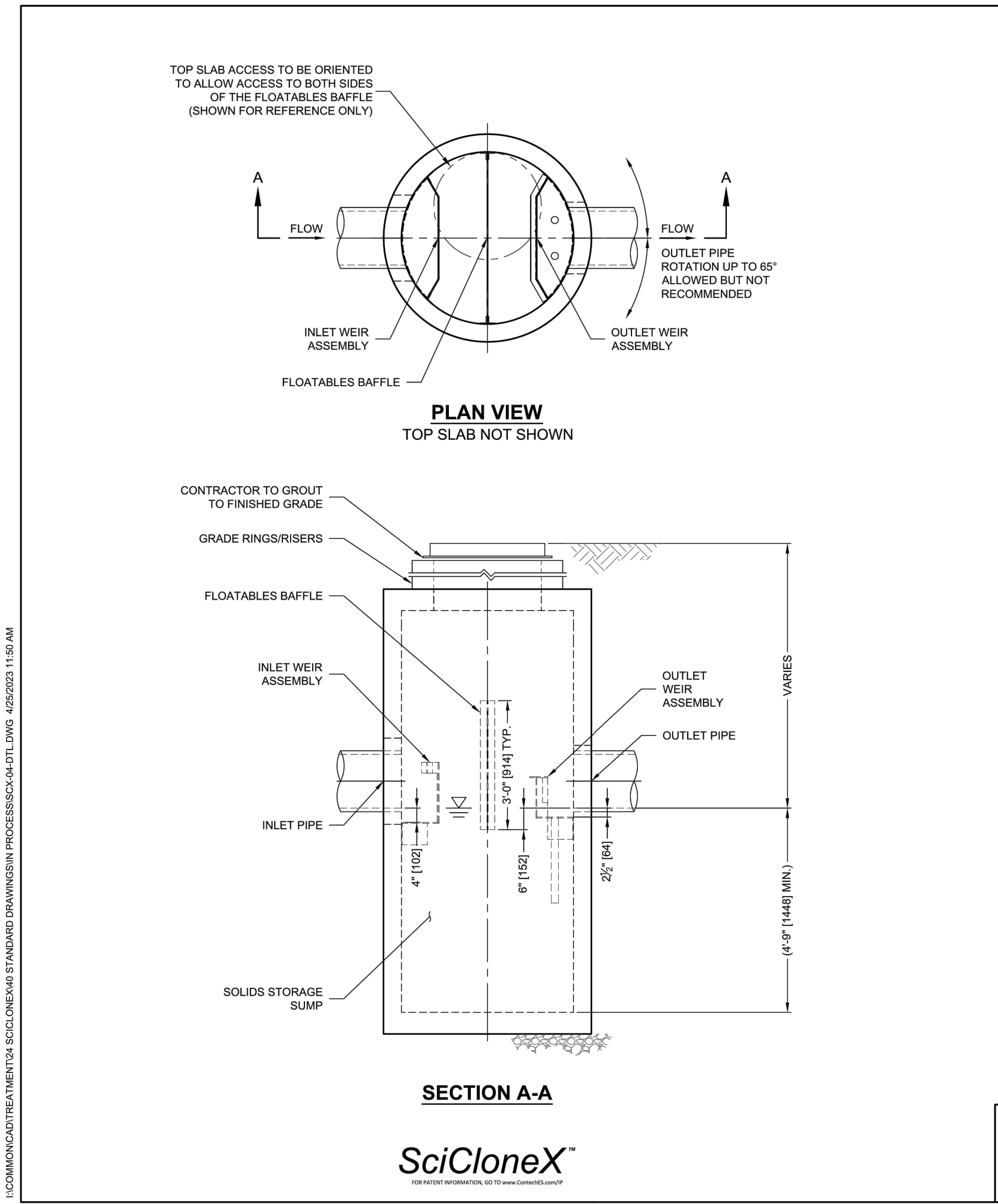
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No.	Date	Issue
4	07/12/2023	ISSUE FOR BID - PHASE 1
3	06/09/2023	ISSUE FOR PERMIT - PHASE 1
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

CONSTRUCTION DETAILS

Job No.	2020-1005	Date	06/29/2023
Scale	AS NOTED	Drawn / Checked	CJL/JMT

Sheet Number **C-401**



SCICLONEX DESIGN NOTES

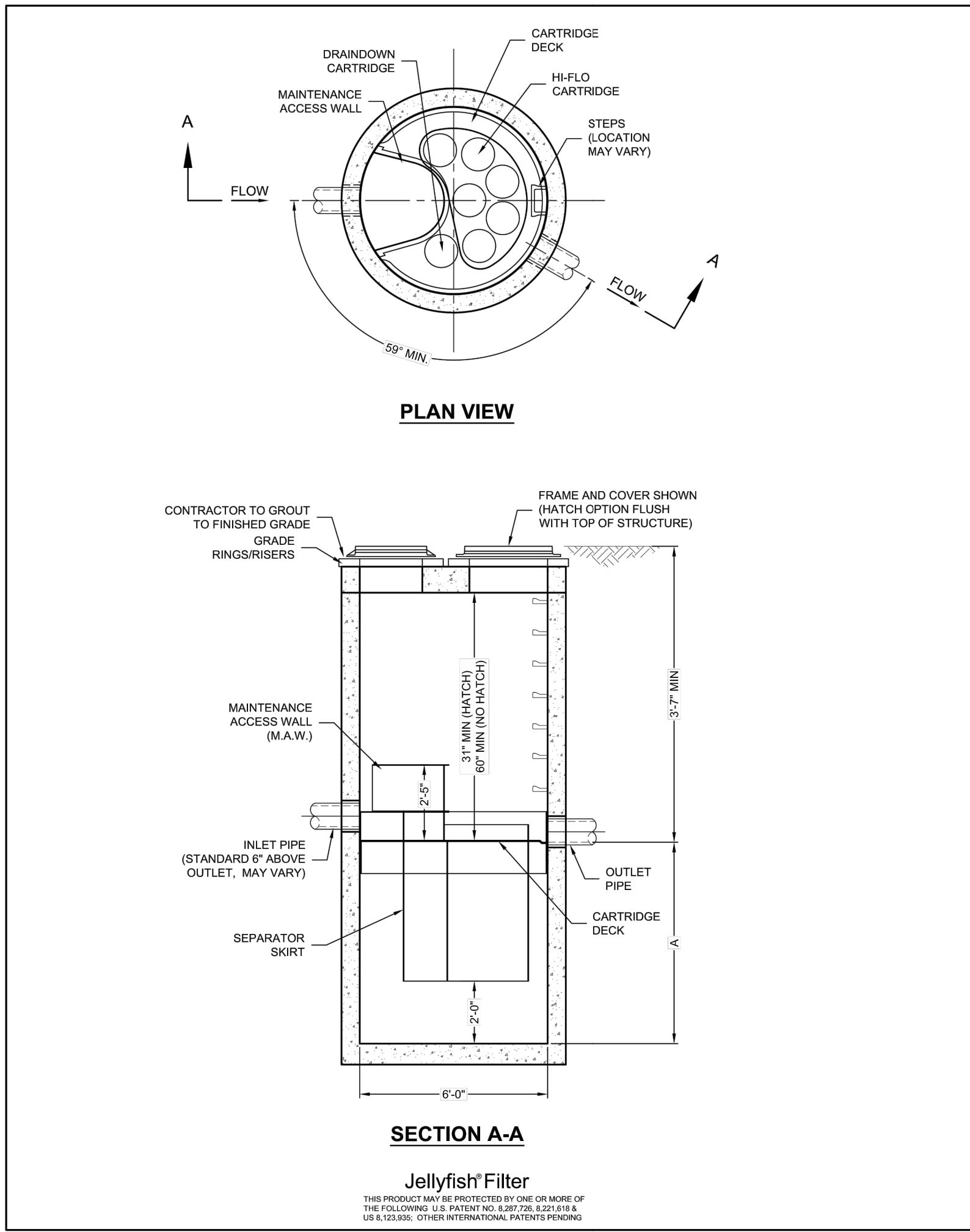
THE STANDARD SCX-04 CONFIGURATION IS SHOWN.

SITE SPECIFIC DATA REQUIREMENTS			
STRUCTURE ID			
WATER QUALITY FLOW RATE (cfs [L/s])			
PEAK FLOW RATE (cfs [L/s])			
RETURN PERIOD OF PEAK FLOW (yrs)			
RIM ELEVATION			
PIPE DATA	INVERT	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE			
NOTES/SPECIAL REQUIREMENTS:			

SCX-04 SCICLONEX STANDARD DETAIL			
CONTECH ENGINEERED SOLUTIONS LLC			
2188 Garden Pathway Dr., Suite 400, West Chester, OH 45389			
TEL: 513-339-1122 FAX: 513-339-7909			

GENERAL NOTES:
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE: www.contechES.com
3. SCICLONEX WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. SCICLONEX STRUCTURE SHALL MEET ASHTO H20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' @10' AND GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET ASHTO M508 AND BE CAST WITH THE CONTECH LOGO.
5. SCICLONEX STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND ASHTO LOAD FACTOR DESIGN METHOD.
6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

INSTALLATION NOTES:
A. ANY SUBGRADE BACKFILL DEPTH AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE SCICLONEX MANHOLE STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLY STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.



JELLYFISH DESIGN NOTES

JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN. 07" MANHOLE JELLYFISH PEAK TREATMENT CAPACITY IS 1.16 CFS. IF THE SITE CONDITIONS EXCEED 1.16 CFS AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION	54"	40"	23"	15"
CARTRIDGE DEPTH	6'-0"	4'-2"	5'-3"	3'-2"
OUTLET INVERT TO STRUCTURE INVERT (ft)	0.18 / 0.09	0.13 / 0.065	0.09 / 0.045	0.05 / 0.025
FLOW RATE HIGH FLO / DRAINDOWN (cfs) [per cart]				
MAX. CARTS HIGH FLO / DRAINDOWN	6 / 1			

SITE SPECIFIC DATA REQUIREMENTS			
STRUCTURE ID			
WATER QUALITY FLOW RATE (cfs)			
PEAK FLOW RATE (cfs)			
RETURN PERIOD OF PEAK FLOW (yrs)			
RIM ELEVATION			
PIPE DATA	INVERT	MATERIAL	DIAMETER
INLET PIPE #1			
INLET PIPE #2			
OUTLET PIPE			
NOTES/SPECIAL REQUIREMENTS:			

JELLYFISH JF6 STANDARD DETAIL OFFLINE CONFIGURATION		
CONTECH ENGINEERED SOLUTIONS LLC		
2188 Garden Pathway Dr., Suite 400, West Chester, OH 45389		
TEL: 513-339-1122 FAX: 513-339-7909		

GENERAL NOTES:
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE: www.contechES.com
3. JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. STRUCTURE SHALL MEET ASHTO H20 OR PER APPROVING JURISDICTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT, ASSUMING EARTH COVER OF 0' - 2' AND GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET ASHTO M508 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
5. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND ASHTO LOAD FACTOR DESIGN METHOD.
6. NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED TO DATE PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

INSTALLATION NOTES:
A. ANY SUBGRADE BACKFILL DEPTH AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION RELATED EROSION RUNOFF.
D. APPROVED WATERSTOP OR FLEXIBLE BOOT.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION RELATED EROSION RUNOFF.
F. CARTRIDGE INSTALLATION BY CONTECH, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTRACTOR TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION AT (888) 740-3318.

1 HYDRODYNAMIC SEPARATOR TREATMENT STRUCTURE (HDS-1, HDS-2)

NOT TO SCALE



WEIR DATA TABLE	
STAGE	ELEVATION (FT)
OCS-1	
SUMP	62.70
WEIR	63.64

NOTES:
1. ALL JOINTS SHALL CONFORM TO A.S.T.M. DESIGNATION C-443, LATEST EDITION.
2. ALL PRECAST MANHOLE SECTIONS SHALL BE IN ACCORDANCE WITH 'PRECAST REINFORCED CONCRETE MANHOLE SECTIONS' A.S.T.M. DESIGNATION C-478, LATEST REVISION.
3. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 4,000 PSI
4. ALL LIFT HOLES SHALL BE PLUGGED AND MORTARED.
5. MANHOLES SHALL MEET ALL A.S.T.M. AND O.S.H.A. REQUIREMENTS.
6. MANHOLES GREATER THAN 10 FEET IN DEPTH SHALL HAVE A DIAMETER OF 5 FEET.

- GENERAL**
- FOUNDATION COURSE FOR PRECAST CONCRETE STRUCTURES SHALL BE PLACED ON A COMPACTED LAYER OF APPROVED CRUSHED STONE HAVING A MINIMUM COMPACTED THICKNESS OF EIGHT (8) INCHES.
 - ALL PRECAST CONCRETE STRUCTURES SHALL BE DESIGNED TO ACCOMMODATE AN HS-20 DESIGN LOAD.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH AND CONSTRUCT THE PROPER SIZE STRUCTURE INCLUDING THE NECESSARY OPENINGS TO ACCOMMODATE THE WORK AS SHOWN ON THE DRAWINGS OR AS ORDERED BY THE ENGINEER (A/G/E), AT NO ADDITIONAL COST TO THE OWNER.
 - ALL REQUIRED PATCHING FOR DRAINAGE STRUCTURES SHALL BE COMPLETED WITH NON-SHRINKING CEMENT MORTAR GROUT WITH MINIMUM 1,000 PSI COMPRESSIVE STRENGTH IN (1) DAY AND 5,000 PSI COMPRESSIVE STRENGTH IN (28) DAYS AS TESTED PER ASTM C109 AND ASTM C-707. PATCHING PRODUCTS INCLUDE 'BURAGROUT' BY L & M CONST. CHEMICAL CO., 'FIVE STAR GROUT' BY U.S. GROUT COMPANY OR APPROVED EQUAL.
 - REFER TO PROJECT SPECIFICATIONS FOR DRAINAGE AND SANITARY PIPE CONNECTIONS INTO PRECAST CONCRETE STRUCTURES.
 - PIPES SHALL BE CUT FLUSH WITH THE INSIDE WALL OF THE STRUCTURE.
 - MINIMUM COMPRESSIVE STRENGTH OF CLASS 'A' CONCRETE (4,000 PSI).
 - PRECAST CONCRETE STRUCTURE LIFT HOLES SHALL BE PLUGGED AND MORTARED.
 - STRUCTURES SHALL CONFORM TO CURRENT ASTM AND OSHA REQUIREMENTS.
 - PRECAST CONCRETE STRUCTURE JOINTS SHALL CONFORM TO THE CURRENT ASTM DESIGNATION C-443.
 - PRECAST CONCRETE STRUCTURES SHALL COMPLY WITH ASTM STANDARD C-478. MANHOLE JOINTS SHALL COMPLY WITH ASTM STANDARD C-443.
- MANHOLES**
- FOR PRECAST CONCRETE MANHOLES FIVE (5) FEET OR LESS IN HEIGHT, TOP CONE SECTION SHALL BE REPLACED WITH PRECAST REINFORCED CONCRETE SLAB (6" MIN. THICKNESS) WITH OPENING OF SUFFICIENT SIZE TO ACCOMMODATE MANHOLE CASTING.
 - FOR MANHOLES 10 FEET OR MORE IN DEPTH, MANHOLE DIAMETER SHALL BE FIVE (5) FEET.
 - TERMINAL MANHOLE FLOORS SHALL BE SLOPED TOWARD OUTFALL PIPE.

- CATCH BASINS AND OUTLET CONTROL STRUCTURES**
- STEPS WILL NOT BE REQUIRED IN CATCH BASINS LESS THAN FOUR (4) FEET IN DEPTH. STEPS WILL BE REQUIRED IN CATCH BASINS FOUR (4) FEET OR GREATER IN DEPTH. DEPTHS FOR CATCH BASINS SHALL BE MEASURED FROM FINISHED GRADE TO INSIDE BOTTOM OF STRUCTURE (INCLUDING SUMP AS APPLICABLE).
 - STEPS SHALL BE LOCATED WITHIN STRUCTURE TO AVOID PLACEMENT OVER PIPES.
 - WHEN STEPS ARE REQUIRED, STEPS SHALL COMPLY WITH THE SAME REQUIREMENTS OF ASTM STANDARD C-478, ARTICLE 13 ENTITLED "MANHOLE STEPS & LADDERS".
 - PROVIDE REINFORCED CONCRETE TOP SLAB FOR OVERSIZED CATCH BASIN WITH PROPER SIZE OPENING TO ACCOMMODATE INSTALLATION OF CASTING (FRAME & GRATE).
 - FOR ALL STRUCTURES GREATER THAN 10 FEET IN DEPTH, STRUCTURES SHALL PROVIDE MINIMUM INSIDE DIMENSIONS OF 4 FEET X 4 FEET.

2 STORMWATER FILTER STRUCTURE (FS-1)

NOT TO SCALE



WEIR DATA TABLE	
STAGE	ELEVATION (FT)
OCS-1	
SUMP	62.70
WEIR	63.64

NOTES:
1. ALL JOINTS SHALL CONFORM TO A.S.T.M. DESIGNATION C-443, LATEST EDITION.
2. ALL PRECAST MANHOLE SECTIONS SHALL BE IN ACCORDANCE WITH 'PRECAST REINFORCED CONCRETE MANHOLE SECTIONS' A.S.T.M. DESIGNATION C-478, LATEST REVISION.
3. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 4,000 PSI
4. ALL LIFT HOLES SHALL BE PLUGGED AND MORTARED.
5. MANHOLES SHALL MEET ALL A.S.T.M. AND O.S.H.A. REQUIREMENTS.
6. MANHOLES GREATER THAN 10 FEET IN DEPTH SHALL HAVE A DIAMETER OF 5 FEET.

- GENERAL**
- FOUNDATION COURSE FOR PRECAST CONCRETE STRUCTURES SHALL BE PLACED ON A COMPACTED LAYER OF APPROVED CRUSHED STONE HAVING A MINIMUM COMPACTED THICKNESS OF EIGHT (8) INCHES.
 - ALL PRECAST CONCRETE STRUCTURES SHALL BE DESIGNED TO ACCOMMODATE AN HS-20 DESIGN LOAD.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH AND CONSTRUCT THE PROPER SIZE STRUCTURE INCLUDING THE NECESSARY OPENINGS TO ACCOMMODATE THE WORK AS SHOWN ON THE DRAWINGS OR AS ORDERED BY THE ENGINEER (A/G/E), AT NO ADDITIONAL COST TO THE OWNER.
 - ALL REQUIRED PATCHING FOR DRAINAGE STRUCTURES SHALL BE COMPLETED WITH NON-SHRINKING CEMENT MORTAR GROUT WITH MINIMUM 1,000 PSI COMPRESSIVE STRENGTH IN (1) DAY AND 5,000 PSI COMPRESSIVE STRENGTH IN (28) DAYS AS TESTED PER ASTM C109 AND ASTM C-707. PATCHING PRODUCTS INCLUDE 'BURAGROUT' BY L & M CONST. CHEMICAL CO., 'FIVE STAR GROUT' BY U.S. GROUT COMPANY OR APPROVED EQUAL.
 - REFER TO PROJECT SPECIFICATIONS FOR DRAINAGE AND SANITARY PIPE CONNECTIONS INTO PRECAST CONCRETE STRUCTURES.
 - PIPES SHALL BE CUT FLUSH WITH THE INSIDE WALL OF THE STRUCTURE.
 - MINIMUM COMPRESSIVE STRENGTH OF CLASS 'A' CONCRETE (4,000 PSI).
 - PRECAST CONCRETE STRUCTURE LIFT HOLES SHALL BE PLUGGED AND MORTARED.
 - STRUCTURES SHALL CONFORM TO CURRENT ASTM AND OSHA REQUIREMENTS.
 - PRECAST CONCRETE STRUCTURE JOINTS SHALL CONFORM TO THE CURRENT ASTM DESIGNATION C-443.
 - PRECAST CONCRETE STRUCTURES SHALL COMPLY WITH ASTM STANDARD C-478. MANHOLE JOINTS SHALL COMPLY WITH ASTM STANDARD C-443.
- MANHOLES**
- FOR PRECAST CONCRETE MANHOLES FIVE (5) FEET OR LESS IN HEIGHT, TOP CONE SECTION SHALL BE REPLACED WITH PRECAST REINFORCED CONCRETE SLAB (6" MIN. THICKNESS) WITH OPENING OF SUFFICIENT SIZE TO ACCOMMODATE MANHOLE CASTING.
 - FOR MANHOLES 10 FEET OR MORE IN DEPTH, MANHOLE DIAMETER SHALL BE FIVE (5) FEET.
 - TERMINAL MANHOLE FLOORS SHALL BE SLOPED TOWARD OUTFALL PIPE.

- CATCH BASINS AND OUTLET CONTROL STRUCTURES**
- STEPS WILL NOT BE REQUIRED IN CATCH BASINS LESS THAN FOUR (4) FEET IN DEPTH. STEPS WILL BE REQUIRED IN CATCH BASINS FOUR (4) FEET OR GREATER IN DEPTH. DEPTHS FOR CATCH BASINS SHALL BE MEASURED FROM FINISHED GRADE TO INSIDE BOTTOM OF STRUCTURE (INCLUDING SUMP AS APPLICABLE).
 - STEPS SHALL BE LOCATED WITHIN STRUCTURE TO AVOID PLACEMENT OVER PIPES.
 - WHEN STEPS ARE REQUIRED, STEPS SHALL COMPLY WITH THE SAME REQUIREMENTS OF ASTM STANDARD C-478, ARTICLE 13 ENTITLED "MANHOLE STEPS & LADDERS".
 - PROVIDE REINFORCED CONCRETE TOP SLAB FOR OVERSIZED CATCH BASIN WITH PROPER SIZE OPENING TO ACCOMMODATE INSTALLATION OF CASTING (FRAME & GRATE).
 - FOR ALL STRUCTURES GREATER THAN 10 FEET IN DEPTH, STRUCTURES SHALL PROVIDE MINIMUM INSIDE DIMENSIONS OF 4 FEET X 4 FEET.

HARRISON RECREATION & COMMUNITY CENTER
New Construction - Phase 1
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528

KG+D listen imagine build
KG+D ARCHITECTS, PC
285 MAIN STREET - MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

Woodard & Curran
Woodard & Curran Engineering & Geological Services, P.C.
850 Westchester Avenue, Suite 902
New York, New York 10570
800.807.6881 | www.woodardcurran.com

CONSTRUCTION DOCUMENTS

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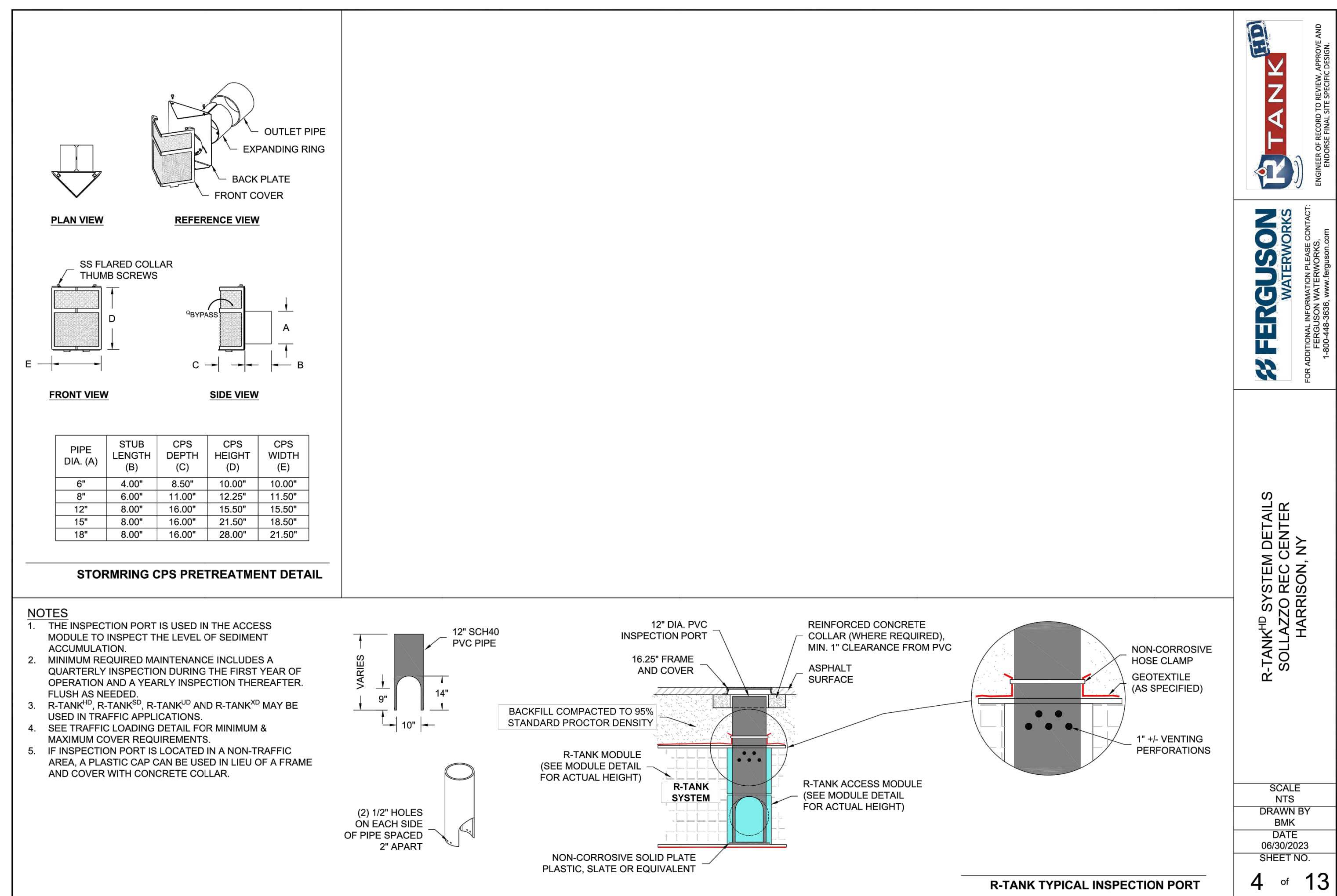
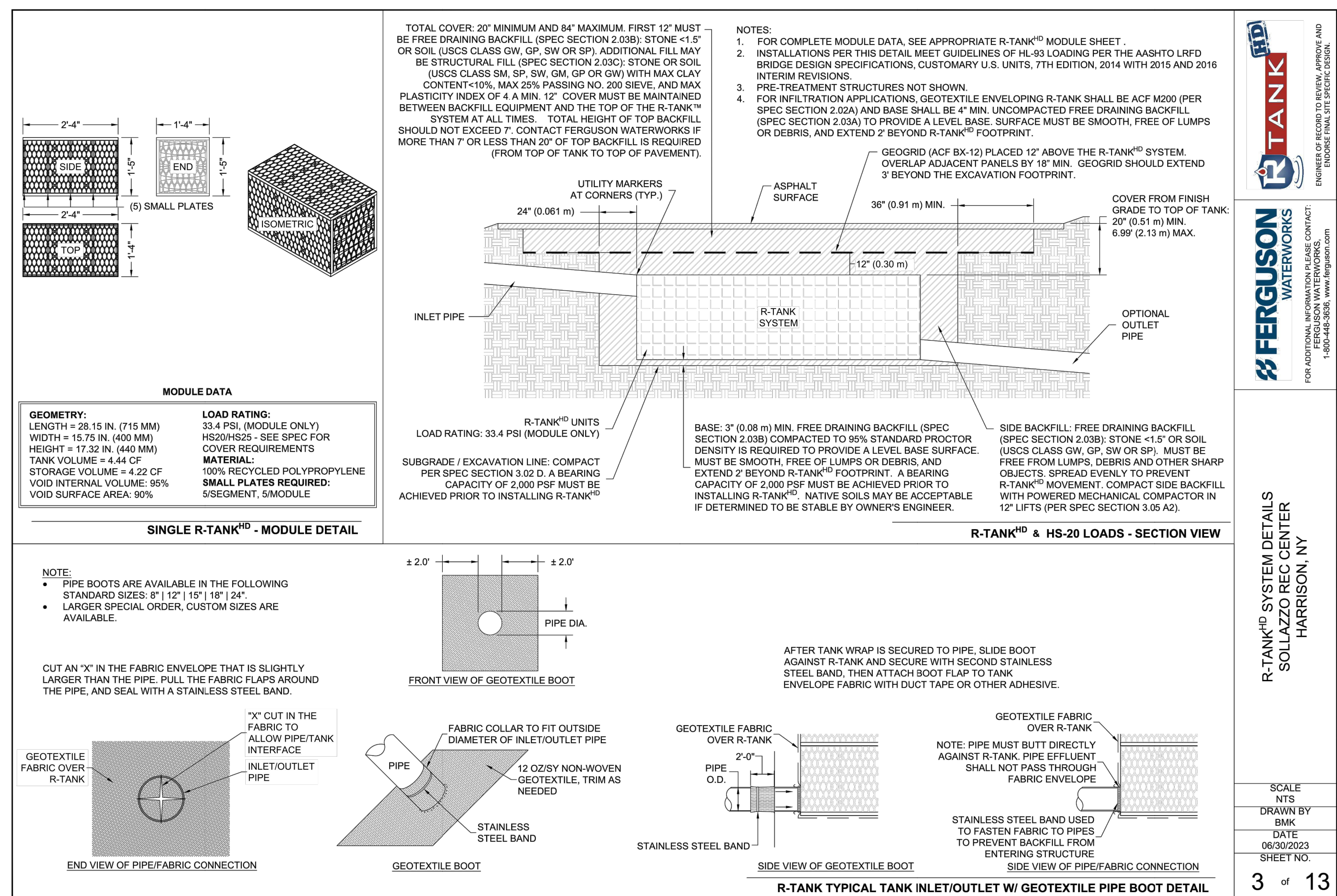
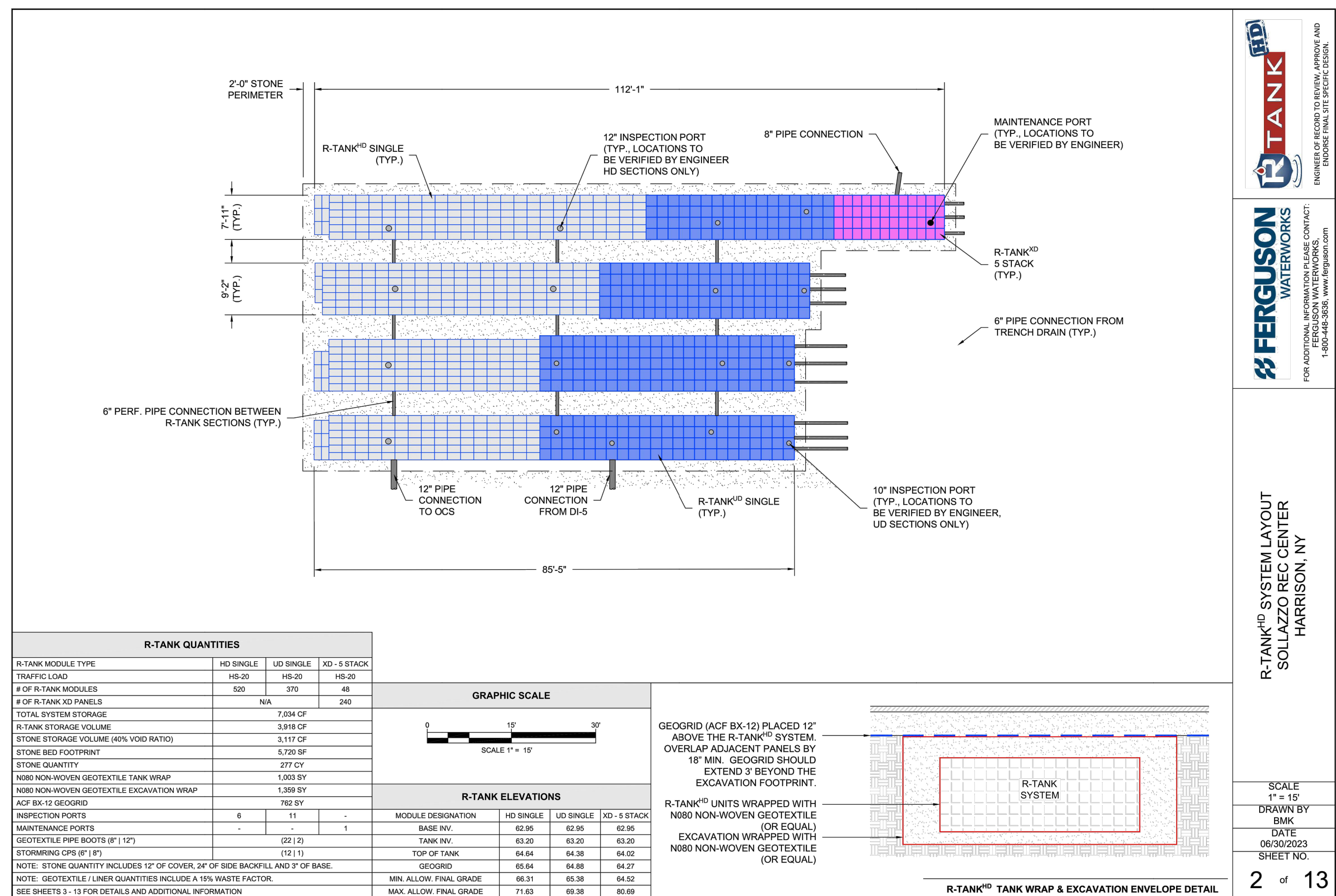
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1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

CONSTRUCTION DETAILS

Job No. 2020-1005	Date 08/29/2023
Scale AS NOTED	Drawn / Checked CJU/JLMT
Sheet Number	C-402



**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 1
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528

KG+D listen imagine build
KG+D ARCHITECTS, PC
285 MAIN STREET - MOUNT KISCO, NEW YORK 10549
P914.666.5900 KGARCHITECTS.COM

Woodard & Curran
Woodard & Curran Engineering & Architecture
800 Westchester Avenue, Suite 1607
Briarcliff, New York 10512
800.807.4266 | www.woodardcurran.com

CONSTRUCTION DOCUMENTS

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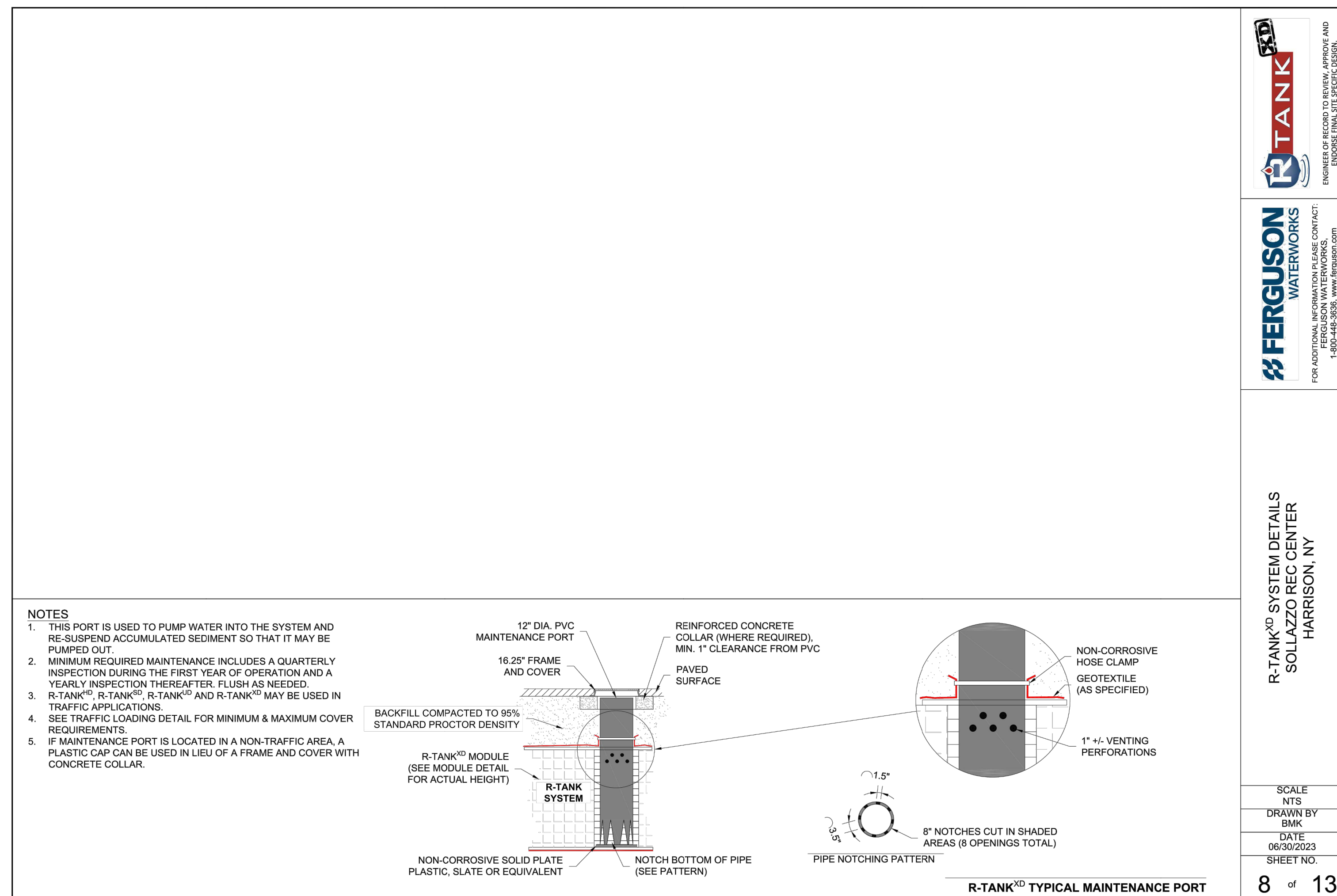
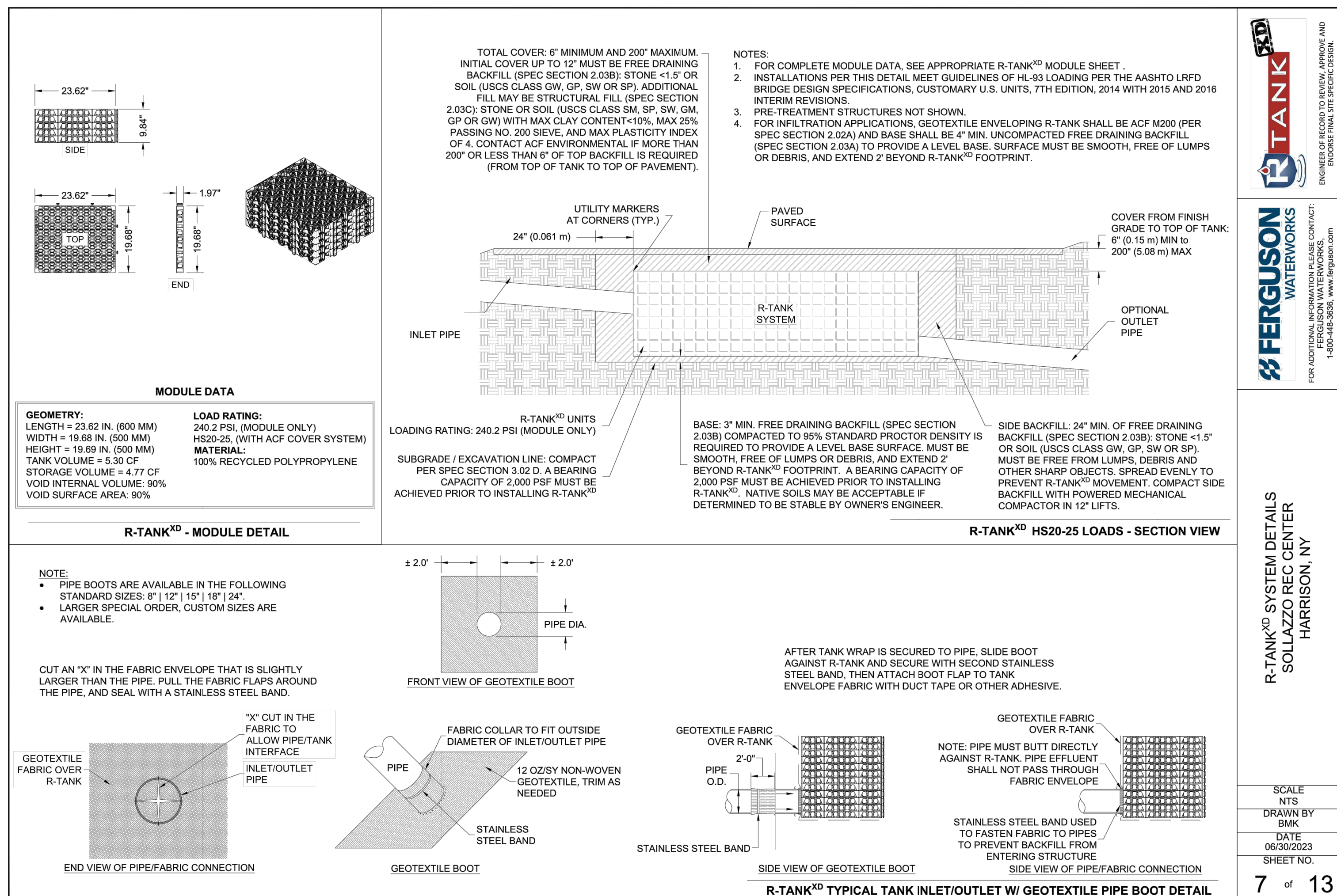
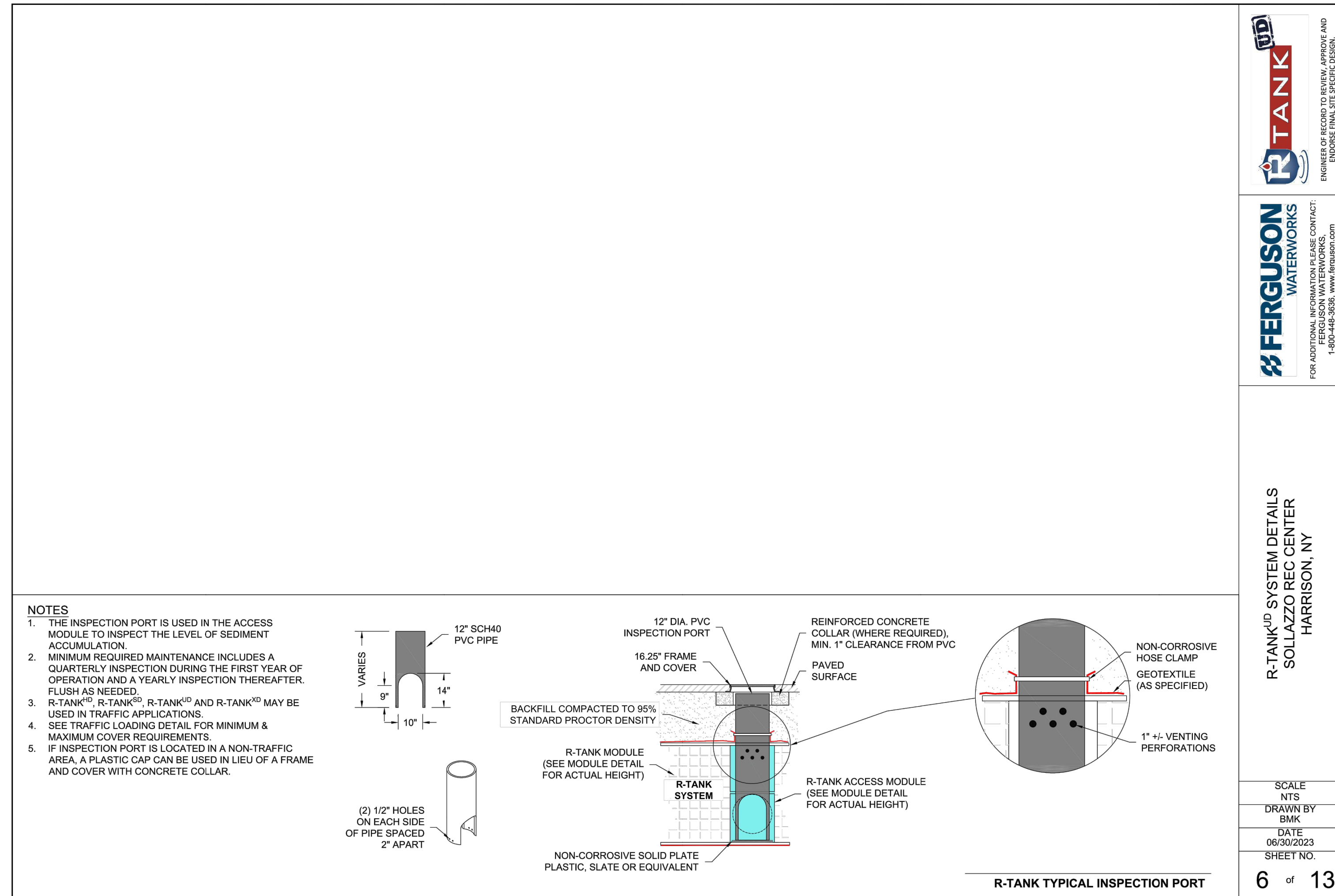
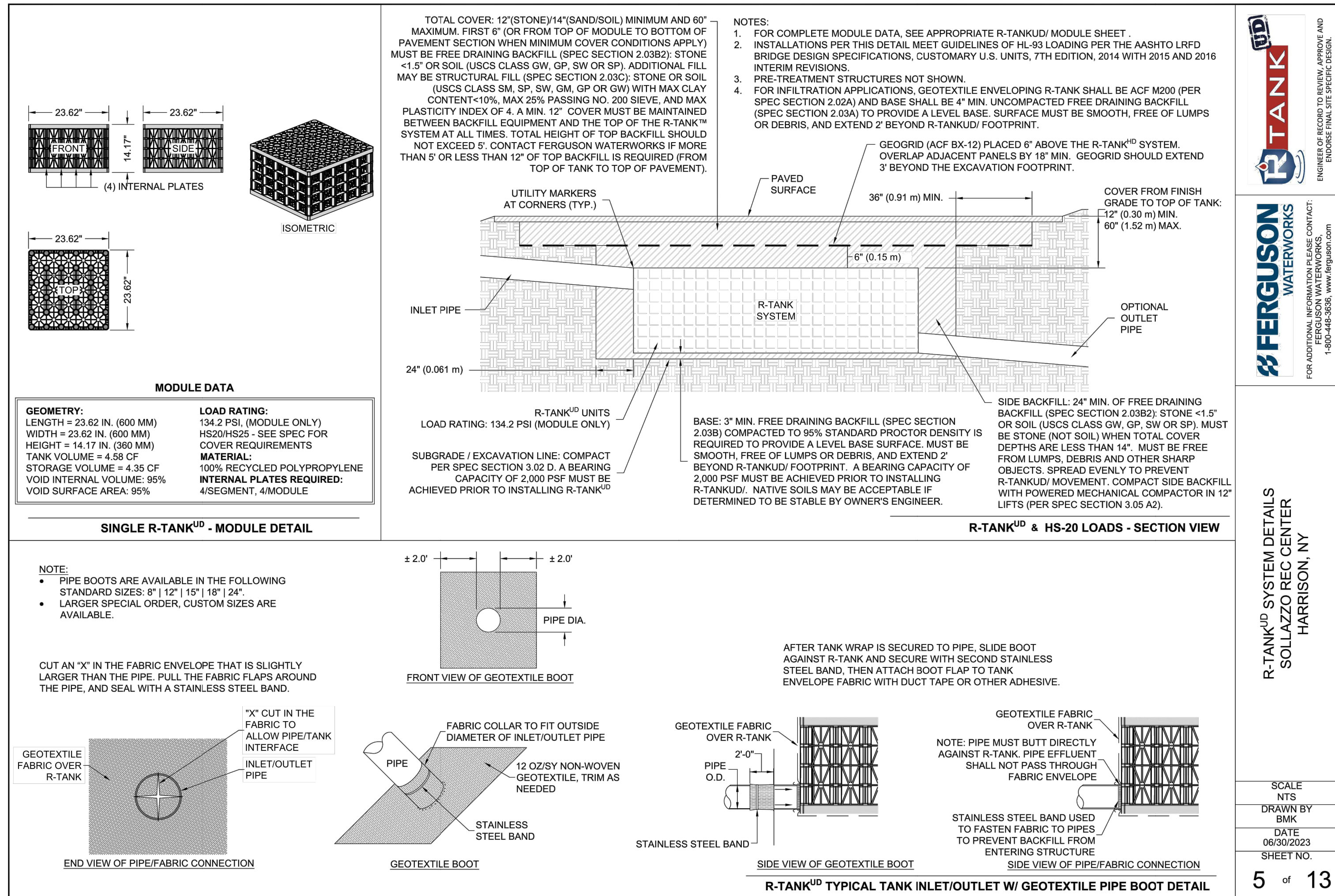
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No.	Date	Issue
4	07/12/2023	ISSUE FOR BID - PHASE 1
3	06/09/2023	ISSUE FOR PERMIT - PHASE 1
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Job No.	Date
2020-1005	06/29/2023

Scale	Drawn / Checked
AS NOTED	CJU/JLMT

Sheet Number **C-403**



HARRISON RECREATION & COMMUNITY CENTER
 New Construction - Phase 1
 Town / Village of Harrison
 270 Harrison Avenue
 Harrison, NY 10528

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Woodard & Curran
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 800.807.4260 | www.woodardcurran.com

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No.	Date	Issue
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3	06/09/2023	ISSUE FOR PERMIT - PHASE 1
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1	03/31/2020	50% DESIGN DEVELOPMENT

CONSTRUCTION DETAILS

Job No.	2020-1005	Date	06/29/2023
Scale	AS NOTED	Drawn / Checked	CJU/JLMT
Sheet Number	C-404		

R-TANK^{XD} SPECIFICATION
SOLLAZZO REC CENTER
HARRISON, NY

SCALE
NTS
DRAWN BY
BKM
DATE
06/09/2023
SHEET NO.
12 of 13

R-TANK^{XD} SPECIFICATION
SOLLAZZO REC CENTER
HARRISON, NY

SCALE
NTS
DRAWN BY
BKM
DATE
06/09/2023
SHEET NO.
13 of 13

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No.	Date	Issue
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3	06/09/2023	ISSUE FOR PERMIT - PHASE 1
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

No. _____ Date _____ Issue _____

Sheet Title

CONSTRUCTION DETAILS

Job No.	Date
2020-1005	08/29/2023

Scale	Drawn / Checked
AS NOTED	CUJ/JMT

Sheet Number

R-TANK SPECIFICATION

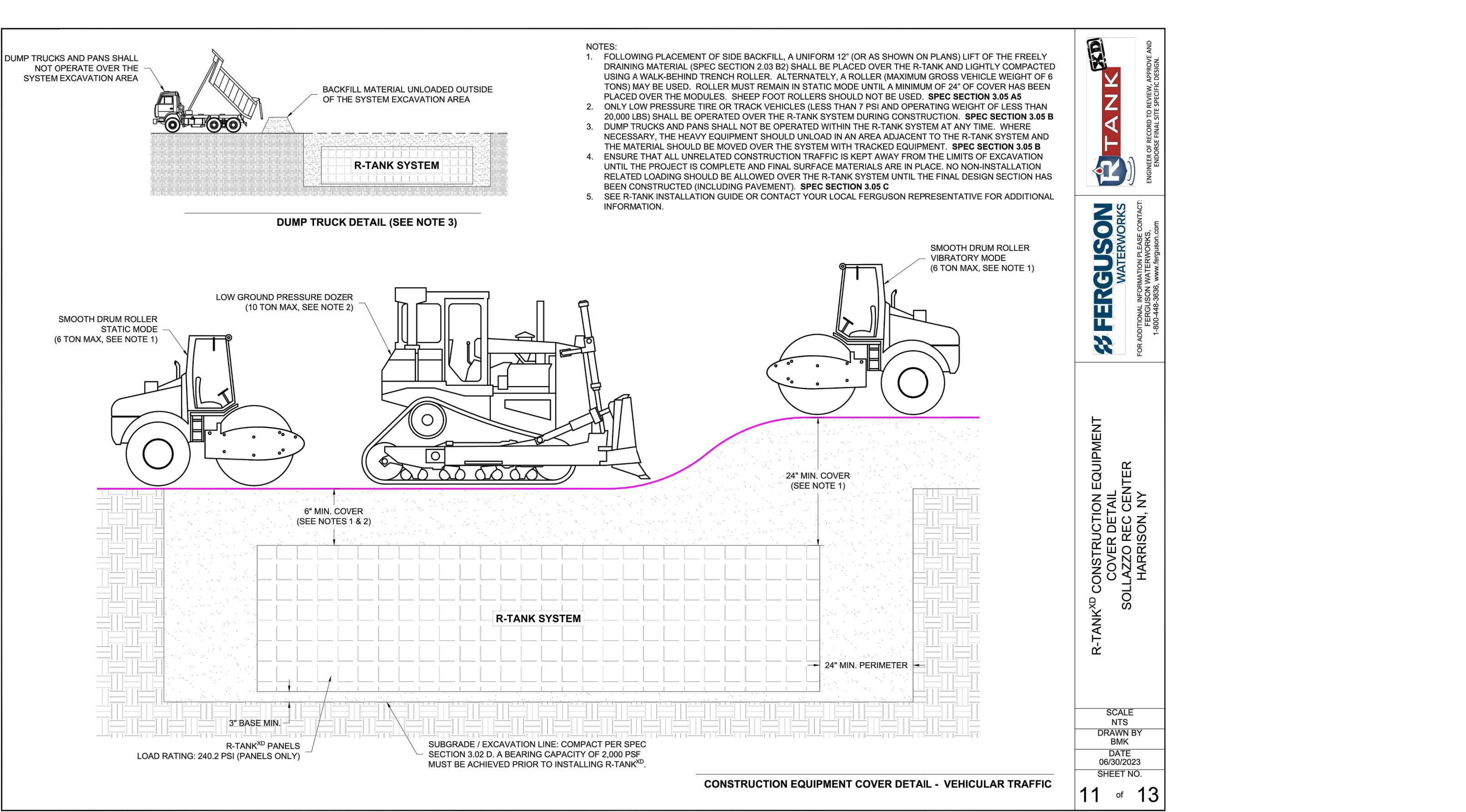
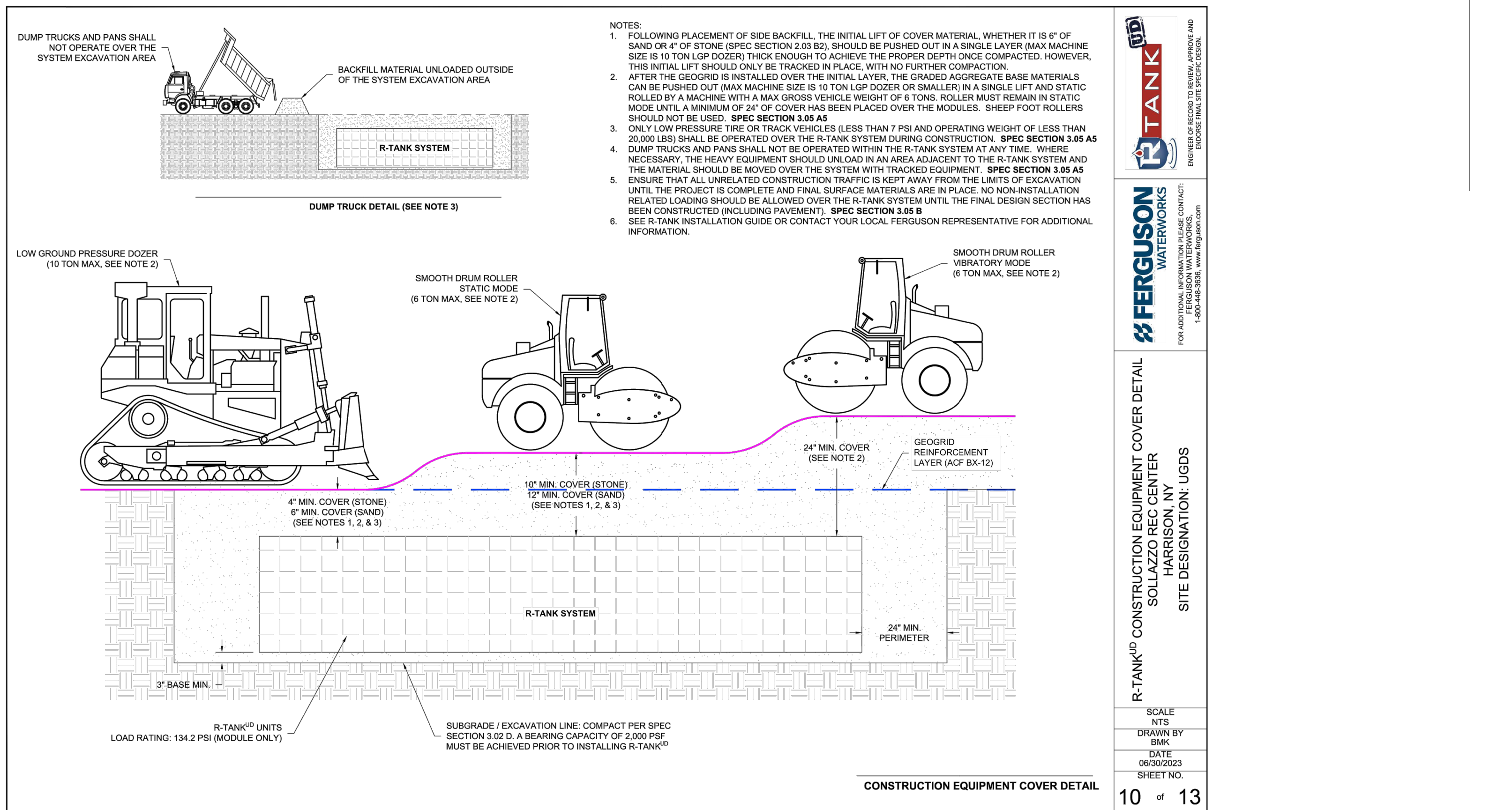
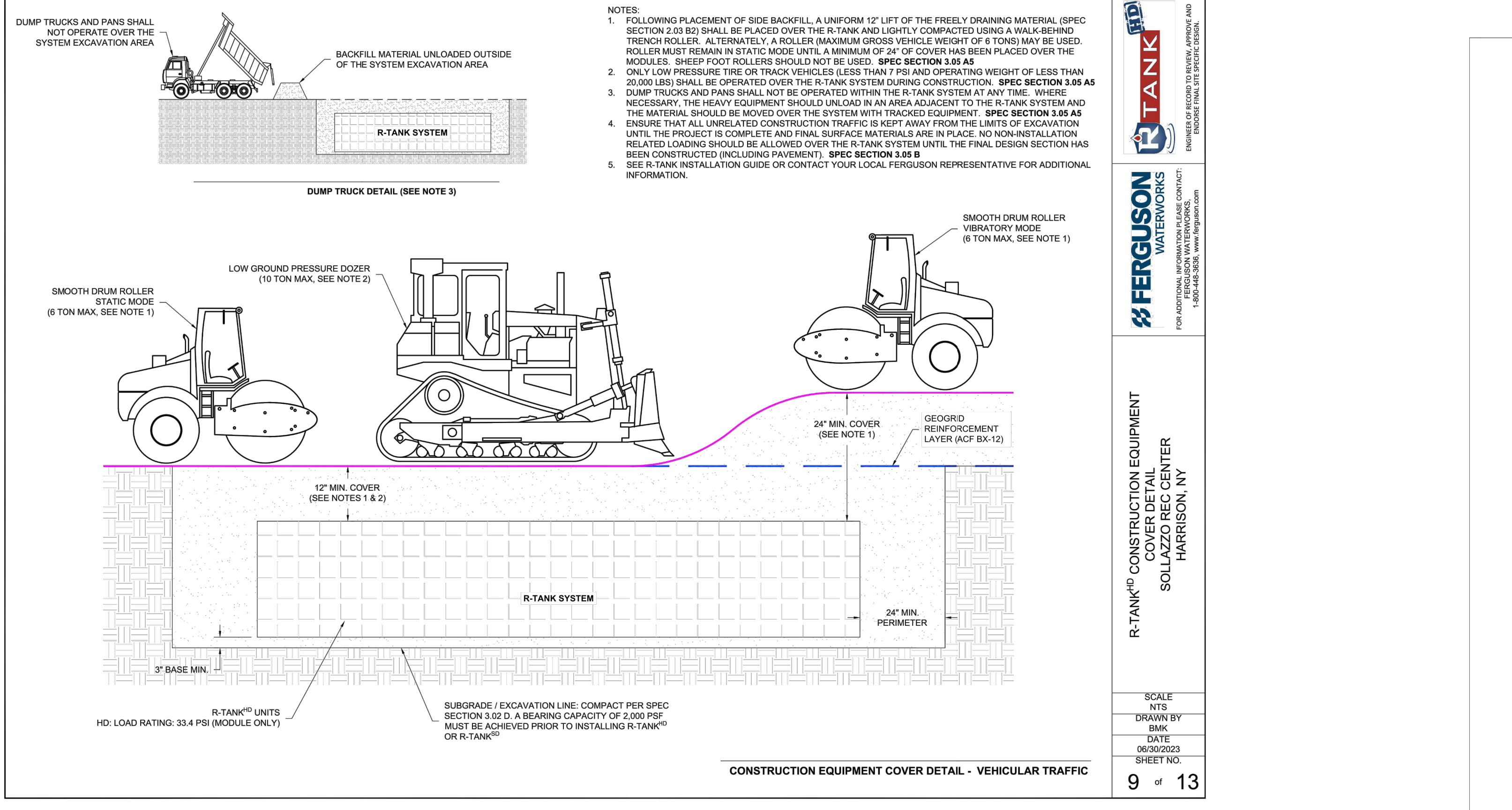
PART 1 - GENERAL
1.01 RELATED DOCUMENTS
A. Assembly, method of installation and general provisions of the Contract as modified herein apply to this section.

1.02 DESCRIPTION OF WORK INCLUDED
A. Provide and install R-Tank^{XD} units as specified per manufacturer's recommendations and/or as shown on the design drawings, to provide adequate support for project design loads and safety during construction.

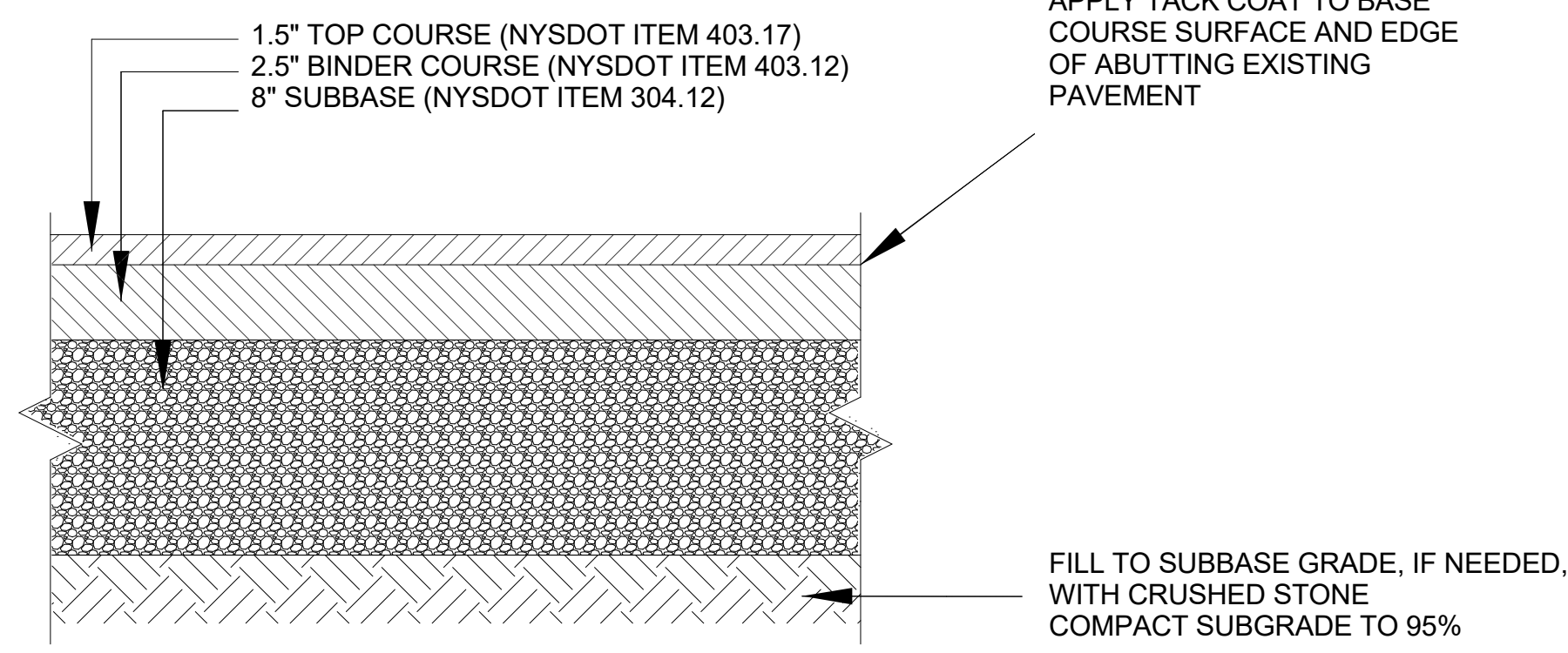
1.03 QUALITY CONTROL
A. Materials shall be manufactured in ISO certified facilities.
B. Installation Contractor shall provide the following performance data:
1. A minimum of 100,000 cycles of fatigue life.
2. A minimum of 25,000 cycles of fatigue life.
3. A minimum of 100,000 cycles of fatigue life.
4. A minimum of 100,000 cycles of fatigue life.
5. A minimum of 100,000 cycles of fatigue life.
6. A minimum of 100,000 cycles of fatigue life.
7. A minimum of 100,000 cycles of fatigue life.
8. A minimum of 100,000 cycles of fatigue life.
9. A minimum of 100,000 cycles of fatigue life.
10. A minimum of 100,000 cycles of fatigue life.

PART 2 - EXECUTION
2.01 INSTALLATION
A. Assembly, method of installation and general provisions of the Contract as modified herein apply to this section.

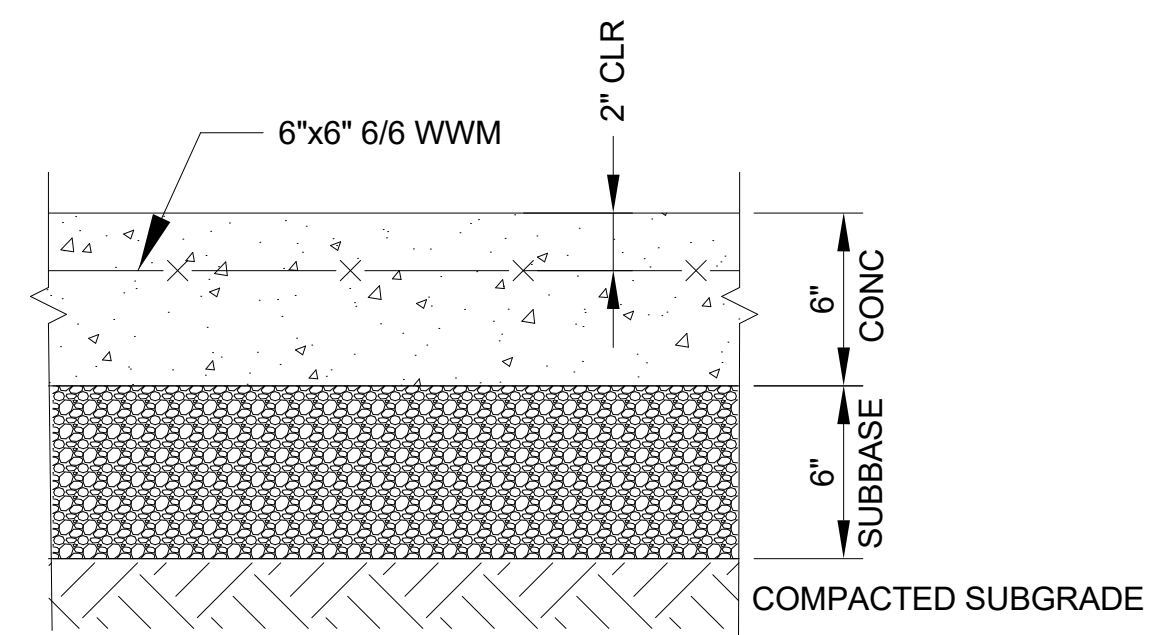
2.02 BACKLOGGING OF THE R-TANK UNITS
A. Backlogging shall be performed in accordance with the following:
1. Place free draining backfill material (Section 2.02 B) around the perimeter of the R-Tank unit to a maximum thickness of 12". Each fill shall be placed under the entire perimeter such that each fill is no more than 24" from the backfill material.
2. R-Tank units shall be installed in accordance with the following:
1. Place free draining backfill material (Section 2.02 B) around the perimeter of the R-Tank unit to a maximum thickness of 12". Each fill shall be placed under the entire perimeter such that each fill is no more than 24" from the backfill material.
2. R-Tank units shall be installed in accordance with the following:
1. Place free draining backfill material (Section 2.02 B) around the perimeter of the R-Tank unit to a maximum thickness of 12". Each fill shall be placed under the entire perimeter such that each fill is no more than 24" from the backfill material.



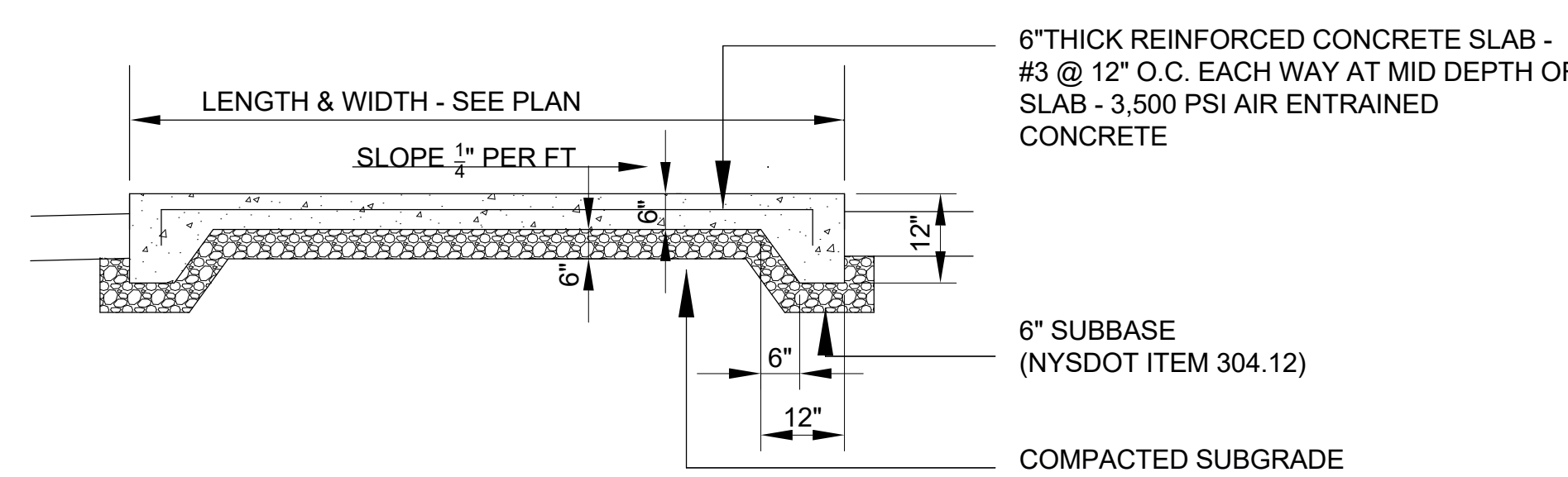
FOR REFERENCE - TYPICAL PAVEMENT SECTIONS
- PHASE 2



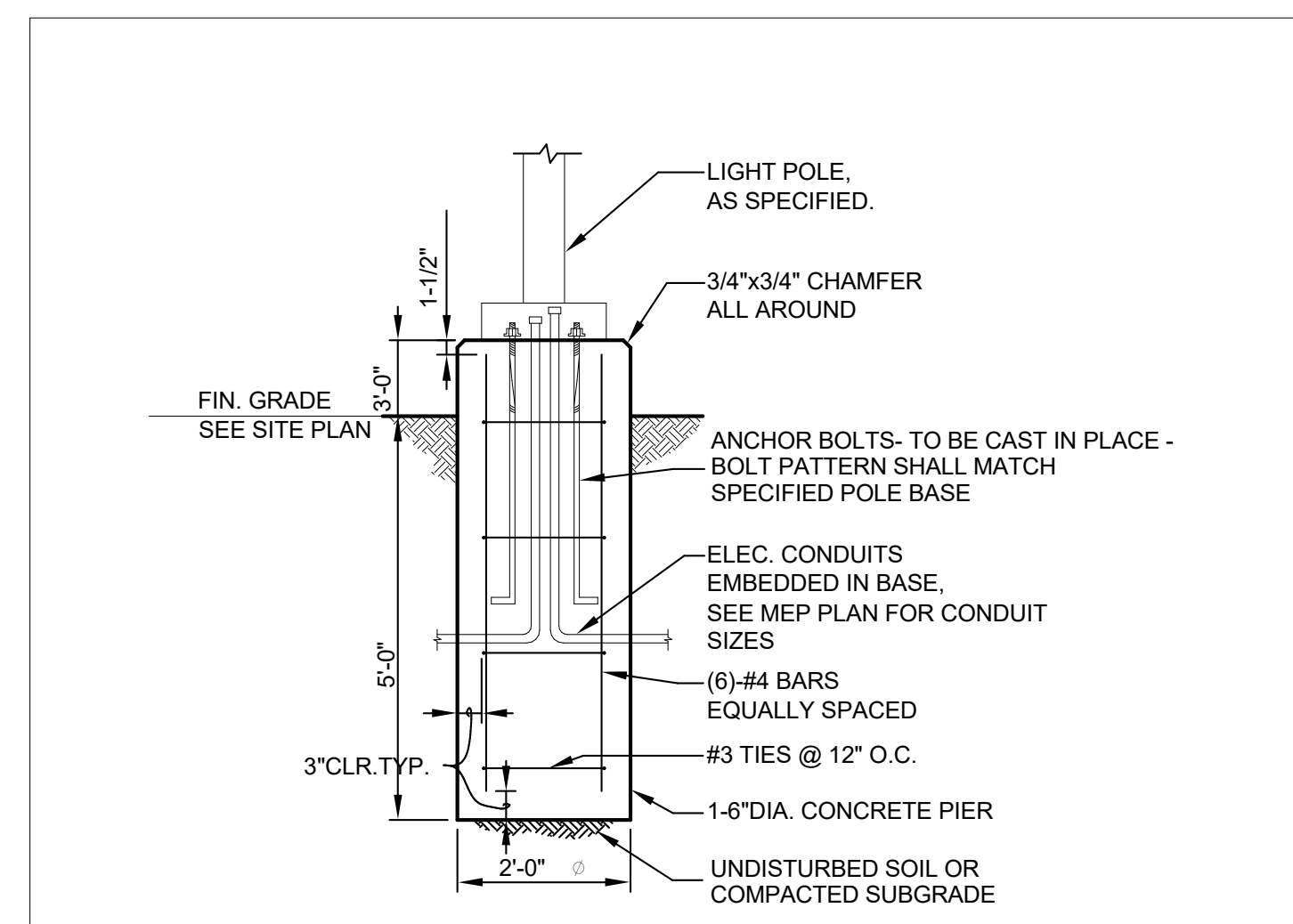
7 FULL DEPTH ASPHALT PAVEMENT
SCALE: NTS



6 CONCRETE SIDEWALK
SCALE: NTS

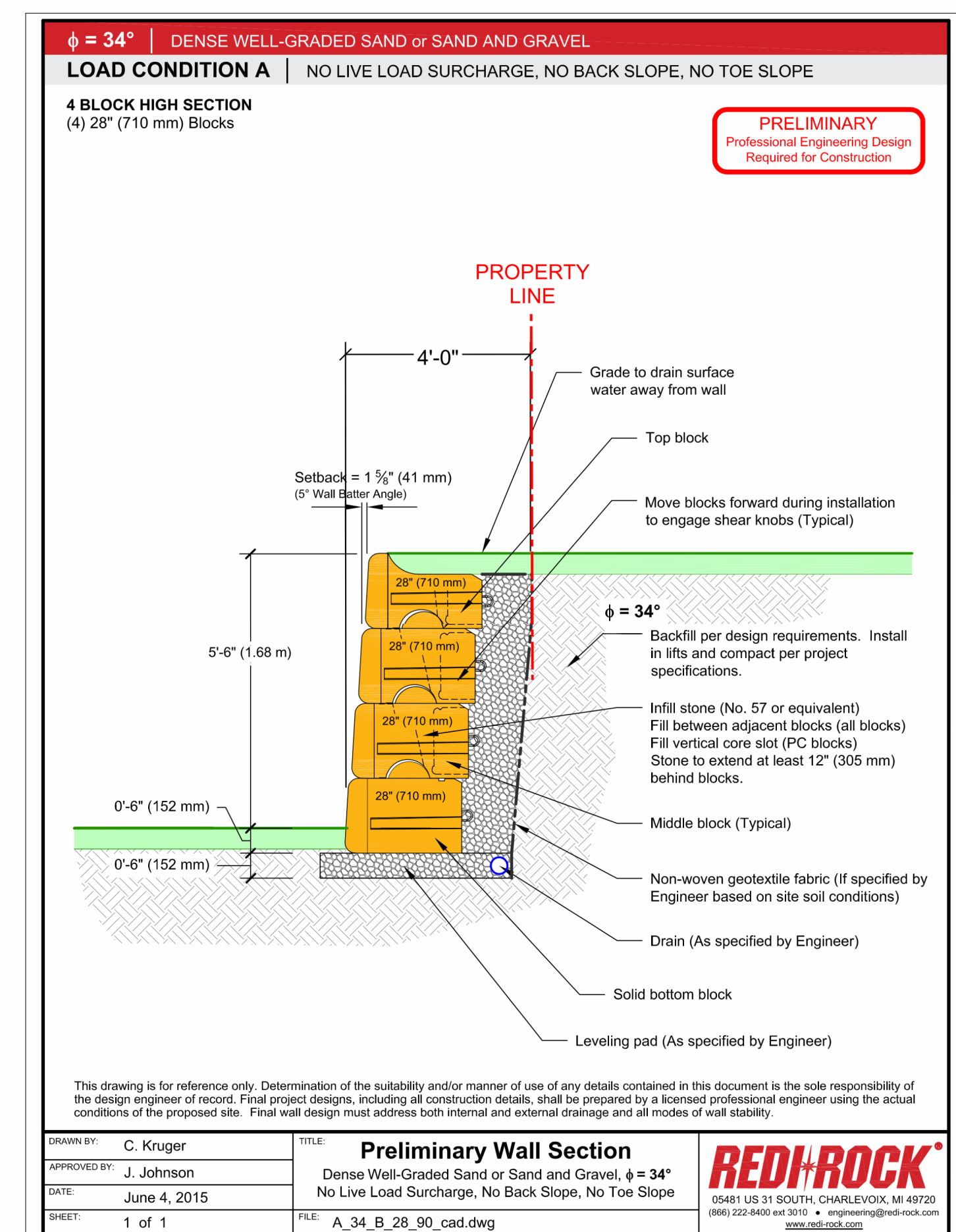


5 TRANSFORMER CONCRETE PAD
SCALE: NTS

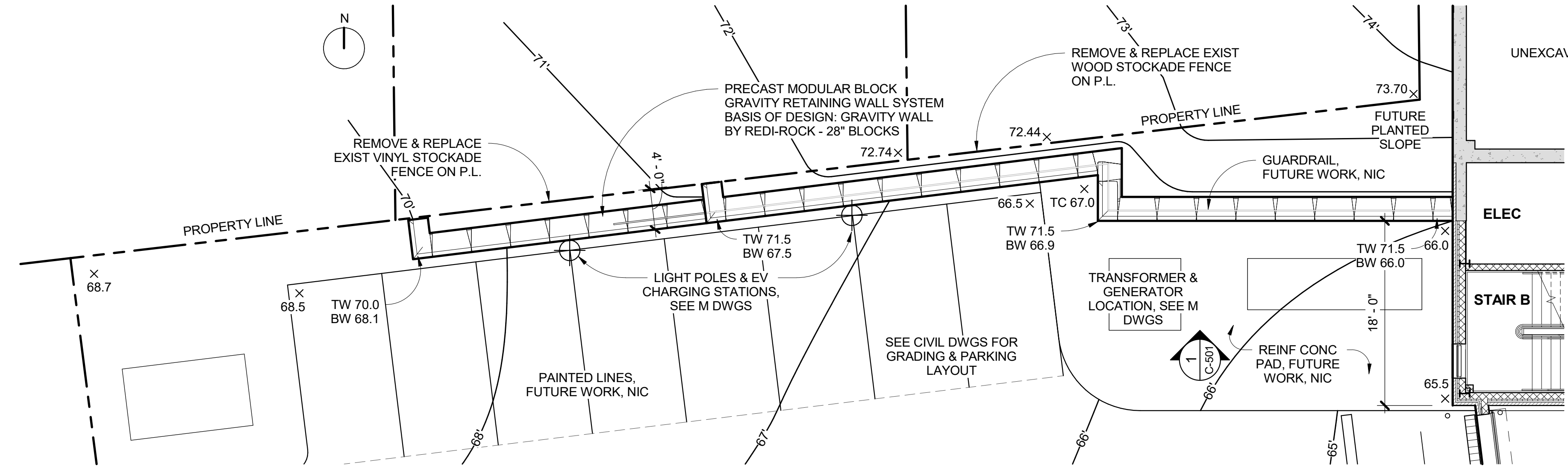


4 LIGHT POLE FOUNDATION DETAIL
DETAIL NOT TO SCALE

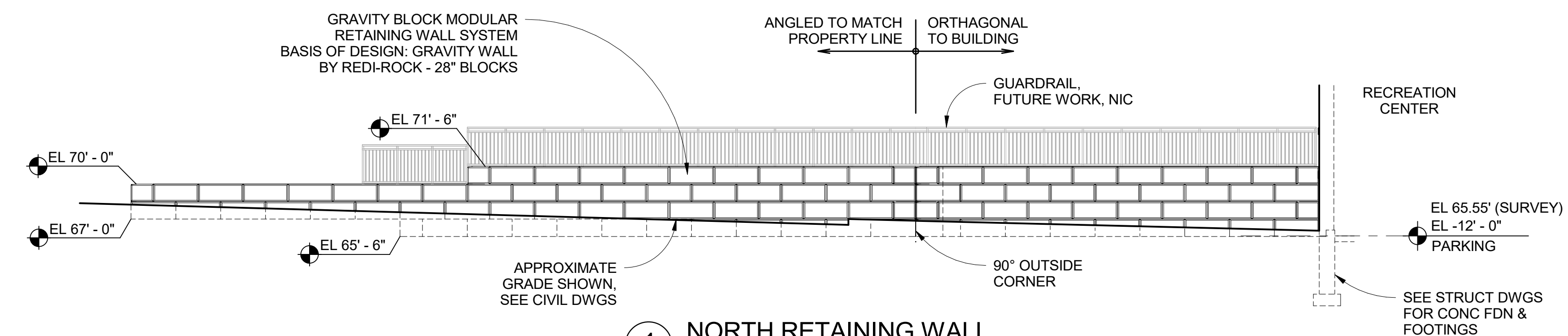
- NOTES:
1. CONTRACTOR SHALL ENSURE CONCRETE POLE PIER IS INSTALLED ABSOLUTELY VERTICAL AND LEVEL.
 2. PIER TO BE CONSTRUCTED IN ONE CONTINUOUS POUR.
 3. EXPOSED PORTION OF PIER TO BE HAND-RUBBED SMOOTH.
 4. ANCHOR BOLT PATTERN TO MATCH SPECIFIED LIGHT POLE BASE.
 5. CONTRACTOR SHALL CONFIRM GROUNDING DESIGN WITH MEP.
 6. COORDINATE FOOTING DETAILS WITH LIGHT POLE MANUFACTURER'S RECOMMENDATIONS.



3 MODULAR BLOCK WALL SECTION
DETAIL NOT TO SCALE



2 NORTH RETAINING WALL PLAN
1/8\"/>



1 NORTH RETAINING WALL
1/8\"/>

ARCHITECTURAL PLAN & ELEVATION OF MODULAR BLOCK RETAINING WALL BY GC. SEE CIVIL DWGS FOR GRADING & LAYOUT PLANS. BLOCK LAYOUT SHOWN IS APPROXIMATE. GC SHALL BE RESPONSIBLE FOR DELEGATED DESIGN ENGINEERING OF WALL.

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3 07/12/2023 ISSUE FOR BID - PHASE 1
No. Date Issue

SITE DETAILS

Job No. 2020-1005 Date 07/12/2023
Scale AS NOTED Drawn / Checked
Sheet Number

C-501

General Notes:

- 1 The purpose of these drawings is to show the structural work associated with Harrison Recreational Center in Harrison, NY.
2 The work shown on these drawings has been designed in accordance with the structural requirements of the 2020 edition of the Building Code of New York State.
3 The structural components have been designed for the following loads:

Table with columns for load type (e.g., Corridors, Garages, Office buildings) and load value (e.g., 100 psf, 40 psf, 80 psf).

Table for wind pressure (Nominal design wind pressures) for components and cladding on building walls. Columns: Area, 10 sq. ft., 20 sq. ft., 50 sq. ft., 100 sq. ft.

Table for wind pressure (Nominal design wind pressures) for components and cladding on building roofs. Columns: Area, 10 sq. ft., 20 sq. ft., 50 sq. ft., 100 sq. ft.

Table for earthquake design data including risk category, seismic importance factor, and design base shear.

Table for other loads including concentrated loads (e.g., Stair treads, Garages) and impact loads (e.g., Elevator machinery).

- 4 This structure has been designed to be self-supporting and stable after the construction of the building has been completed.
5 Jobsite safety and construction procedures are solely the responsibility of the contractor.
6 PDF digital files of all erection and detail shop drawings for steel reinforcing bars...
7 Testing and inspection of concrete, steel reinforcing bars, and other work are described in the project "Statement of Special Inspections".
8 If faulty construction procedures, or material, result in defective work that requires additional engineering time...
9 Loads, openings and structure in any way related to requirements of other (non-structural) disciplines are shown for bidding purposes only.
10 The contractor shall verify all dimensions, elevations and angles with architectural drawings and existing conditions before proceeding with any work.

- 11 The contractor and subcontractors shall obtain the latest copies of approved plans and surveys and they shall familiarize themselves thoroughly with these plans before commencing any work.
12 These drawings are supplemented by a detailed technical specification.
13 Work shown as "Typical Details" apply throughout the project as required.
14 Some details of the work are shown on the architectural drawings.
15 Do not scale drawings.

Codes and Standards References

- 1 Concrete: ACI 318-19, "Specifications for Structural Concrete in Buildings" and ACI 318-14, "Building Code Requirements for Structural Concrete".
2 Structural steel: Design, fabrication and erection of structural steel shall conform to the "Specification for Structural Steel for Buildings" as adopted on July 7, 2016, by the American Institute of Steel Construction (AISC) and the 15th Edition of the AISC Steel Construction Manual.

Foundation notes:

- 1 Recommendations for the site preparation and earthwork within the perimeter of the proposed new structure, preparation of soil bearing surfaces, material specification and placement of structural backfill for support of foundations and slabs-on-grade, and drainage are stated in the geotechnical engineering report prepared for this project by Skylands Engineering, LLC and dated 19 April, 2019.
2 The foundations have been designed to rest on inorganic, undisturbed soil or compacted granular fill having a bearing value of 4000 psf as recommended in the geotechnical engineering report referenced above.
3 If ledge rock is encountered above the proposed bottom of footing elevations indicated, then it shall be removed to the extent necessary to provide a minimum of 1'-0" soil cover above the top of the concrete footing.
4 Footings supported on ledge shall rest on broom clean solid rock.
5 If ledge rock and soil both occur at the bottom of footing bearing elevation, then a minimum of one foot of ledge rock below planned bottom of footing elevation shall be removed and replaced with a "cushion" layer of crushed stone to minimize differential settlement.
6 The slab-on-grade sub-base shall be a crusher run stone free from soft disintegrated pieces, mud, dirt, or other injurious material.
7 The bottom of exterior footings not on solid rock shall be at least 3'-6" below finished grade.
8 All soil surrounding and under footings shall be protected from freezing and frost action during the course of construction.
9 Step footings where elevations change at a maximum slope of one vertical on two horizontal and place lower footings first.
10 Foundation basement walls shall not be backfilled before they are temporarily braced or before the concrete has attained its specified compressive strength and the framed floor system at the top of the wall is in place.
11 Foundation frost walls shall be backfilled by placing fill on both sides simultaneously and to the same level.
12 Keep foundation excavations free of water at all times.
13 Use crushed stone backfill or controlled compacted fill or lean concrete (fc=1500 psi) for over-excavation of footings.
14 Existing utilities: Locate existing underground utilities in areas of excavation work.
15 Where footings are in close proximity to sub-surface piping bottom of footings shall be at least 8" below elevation of piping unless otherwise shown on the drawings.
16 Submittals to the engineer are required for structural fill and slab sub-base.

Concrete Notes:

- 1 All concrete work shall conform to all the requirements of ACI 301, "Specifications for Structural Concrete in Buildings" and ACI 318 "Building Code Requirements for Structural Concrete", as specified in the code reference section of these general notes.
2 Concrete shall be the specified weight and develop a minimum compressive strength in 28 days as follows:

Table for concrete strength requirements. Columns: Location, Weight, Minimum Strength, Maximum W/C Ratio (or slump where indicated).

- 3 All detailing fabrication, and erection of reinforcing bars, unless otherwise noted, must follow the latest ACI code and the latest ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures".
4 Concrete design mix will be submitted to the engineer for review, together with laboratory reports attesting that the mixes can attain the minimum strength required in accordance with ACI 301 indicated above.
5 No admixtures are permitted without the engineer's written permission other than entrained air. Concrete exposed to the weather, such as that used in foundation walls, shall contain 5% +/- 1 1/2% entrained air.

- 6 Limit water-soluble, chloride-ion content in hardened concrete to the following percent by weight of cement: 1.00 for reinforced concrete that will be dry and protected from moisture, 0.30 for reinforced concrete that will be exposed to moisture but not exposed to chlorides, 0.15 for reinforced concrete exposed to moisture and chlorides from deicing chemicals and salt/seawater, and 0.06 for prestressed (post-tensioned) concrete.
7 Reinforcing steel shall conform to ASTM A 615, Grade 60.
8 The following concrete cover shall be provided for reinforcement:

Table for concrete cover requirements. Columns: Location, Cover (inches).

- 9 The conveyance, placement and protection of the concrete shall conform to the requirements of ACI 318, indicated above, and ACI 304R, "Guide for Measuring, Mixing, Transporting and Placing Concrete". Mechanical vibrators are to be used to consolidate the freshly cast concrete around the reinforcing and against form surfaces and to prevent the formation of air or stone pockets, honeycombing, pitting or planes of weakness.
10 No welding of reinforcing will be permitted.
11 All lap splices shall be Class B, in accordance with ACI 318 indicated above.
12 Concrete piers: Place concrete piers and walls together. Set pier reinforcing and set wall reinforcing through pier vertical bars.
13 The contractor shall be responsible for limiting pours to minimize shrinkage cracking.
14 The installation of slabs shall conform to the requirements of ACI 302.1R, "Guide to Concrete Floor and Slab Construction".
15 Submittals to the engineer are required for concrete mix designs, cement, reinforcing bars, admixtures, and aggregates.

Connections to Hardened Concrete:

- 1 All proprietary anchoring systems (expansion, adhesive anchoring systems, etc.) to be installed into hardened concrete elements are to be installed in strict accordance with the manufacturer's instructions for drilling and preparation of holes, for spacing and edge distance requirements, and for the utilization of supplemental components for the anchoring systems such as screen tubes, doweling adhesives, etc.
2 Connections to hardened concrete shall be made with anchors conforming to ACI 318, as specified in the code reference section of these general notes, for cracked concrete, and Chapter 19 of the state building code indicated at the beginning of these general notes.
A. Mechanical anchors shall be either:
i. Hilti "Kwik Bolt TZ" expansion anchor.
ii. Hilti "Kwik HUS-EZ" screw anchor (use only in permanently dry, interior non-corrosive environments)
iii. Simpson "Strong Bolt 2" expansion anchor
iv. Simpson "Titen HD" screw ancho, zinc-plated or galvanized (use only in permanently dry, interior non-corrosive environments)
v. Dewart "Power-Stud + SD2" expansion anchor.
vi. Dewart "Power-Stud + SD4/SD6", Type 304/316 SS expansion anchor
vii. Dewart "Screw-Bolt+" screw anchor, zinc-plated or galvanized (use only in permanently dry, interior non-corrosive environments)

Size, embedment, spacing and edge distance of anchors shall be as indicated on the drawings.

- B. Adhesive anchor rods or reinforcing bars shall be installed in rotary hammered drilled holes with carbide drill bits using one of the following adhesive anchoring systems:
i. Hilti "HIT-HY 200 safe set adhesive anchoring system with Hilti "HAS" ASTM F1554, Grade 36 anchor rods.
ii. Simpson "AT-XP" adhesive anchoring system for base material temperatures between 14 degrees and 80 degrees or Simpson "Set-3G" adhesive anchoring system for temperatures above 40 degrees, with Simpson "RFB" ASTM F1554 Grade 36 anchor rods.
iii. Dewart "AC208+" two part adhesive, cold temperature cure with ASTM F1554, Grade 36 anchor rods. Reinforcing bars shall conform to the requirements of the Concrete General Notes.
iv. Reinforcing bars shall conform to the requirements of the Concrete General Notes.

Adhesive for reinforcing bars and anchors shall have been tested in accordance with ACI 355.4 "Qualification of Post-Installed Adhesive Anchors in Concrete" and ICC-ES (ICC Evaluation Service) "Acceptance Criteria for Post-Installed Adhesive Anchors in Concrete Elements" (AC308) for cracked concrete and seismic applications.

Adhesive bond design strength is based upon concrete that has cured at least 21 days with a minimum compressive strength of 2,500 psi and an in-service temperature in accordance with ACI 355.4 Temperature Category B.

Installation method shall be in accordance with the Manufacturer's Printed Installation Instructions (MPI). Installation of adhesive anchors horizontally or upwardly inclined to support sustained tension loads shall be performed by personnel certified by the ACI/CRSI Adhesive Anchor Installer Certification program or equal.

Unless otherwise noted on the drawings, embed anchor rods and reinforcing bars into drilled holes a minimum of 9 anchor diameters, with a minimum edge distance of 4 inches, measured from the edge of the concrete to the centerline of the anchor/reinforcing bar. Increased embedment depths or edge distances may be required at certain locations, see plans and details.

Structural Steel Notes:

- 1 Design fabrication and erection of structural steel shall conform to the American Institute of Steel Construction's "Specification for Structural Steel for Buildings", as specified in the code reference section of these general notes.
2 Materials: American standard shapes, angles, Plates and bars: ASTM A 36, Anchor rods: ASTM F 1554, Grade 36, Welding electrode: ASTM E 70xx, low hydrogen
3 All welding shall conform to American Welding Society's AWS D1.1 "Structural Welding Code-Steel" code for arc and gas welding and be performed by a certified welder in accordance with A.W.S. standards.
4 Structural steel shall be cleaned in accordance with the Steel Structures Painting Council Specification SP 3 for Power Tool Cleaning (except for steel exposed to weather).
5 All steel members and bolting exposed to weather shall be cleaned in accordance with the Steel Structures Painting Council Specification SP 6 for Commercial Blast Cleaned and hot-dipped galvanized in accordance with ASTM A 123 and ASTM A 153. Minimum acceptable zinc coating weight shall be 2 oz./sq. Ft. See architectural specifications for finished paint if required.
6 Provide bitumastic protection coating for all structural steel below grade.
7 Fabricator shall hold a current AISC certification for "Certified Building Fabricator (BU)", (formerly known as "Standard for Steel Building Structures (STD)".)
8 For miscellaneous steel, see architectural drawings.
9 Submittals to the engineer are required for certificates of compliance for structural steel, bolts, nuts, and weld filler material prior to the fabrication of any steel.
10 At the completion of fabrication, the fabricator shall submit a certificate of compliance stating that the work was performed in accordance with the approved contract documents, as required by Section 1704.2 of the building code indicated at the beginning of these General Notes.

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 1
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Harrison, NY 10528



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CONSTRUCTION DOCUMENTS

Table with columns for No., Date, Issue, containing project milestones like 07/12/2023 ISSUE FOR BID - PHASE 1, 06/09/2023 ISSUE FOR PERMIT - PHASE 1, etc.

Key Plan

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Professional Seal

Table for sheet information including Job No. (20029.00), Date (2020-06-01), Scale (AS NOTED), and Sheet Number (S-001).

GENERAL STRUCTURAL NOTES

Job No. 20029.00 Date 2020-06-01
Scale AS NOTED Drawn / Checked JM / EM
Sheet Number S-001

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 1

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



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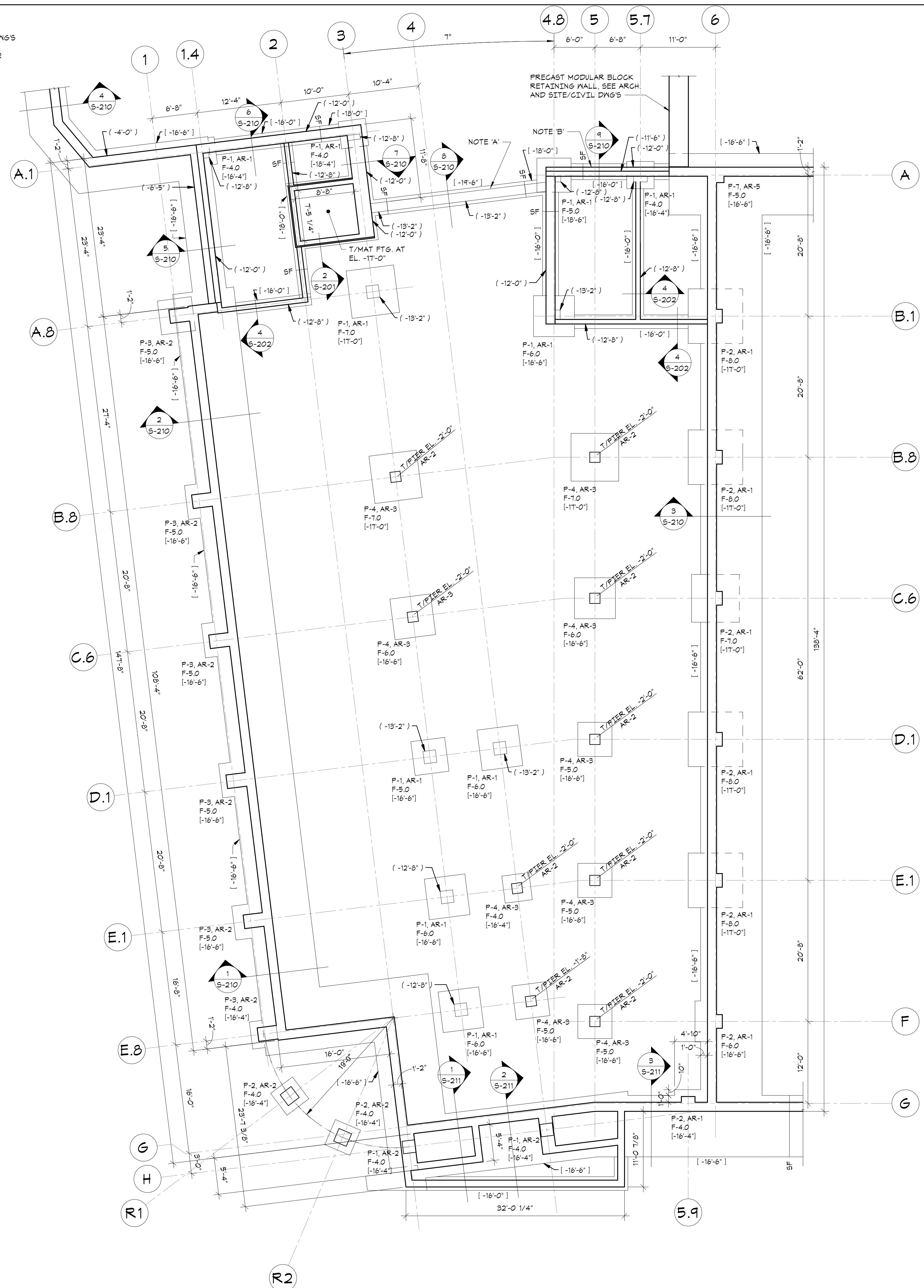


**The DiSalvo
Engineering
Group**
Structural Engineers
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Danbury, CT 06810
[203] 490-4140 | www.tdeg.com

CONSTRUCTION DOCUMENTS

NOTE:
SEE SITE/ELEC MECH. DNG'S
FOR EQUIP. PAD
LOCATIONS. SEE 2/5202
FOR TYP. PAD DETAIL

NOTE:
SEE SITE/CIVIL DNG'S
FOR EXTENT OF SITE
RETAINING WALLS IN
PARKING LOT



LOWER LEVEL FOUNDATION PLAN

1/8"=1'-0"

- TOP OF PARKING LEVEL = -12'-0" FROM FIRST FLOOR DATUM
- FOR FOUNDATION CONDITION AT EXTERIOR DOORS, SEE 'TYPICAL DETAIL AT EXTERIOR DOORS'.
- COORDINATE ALL PITS, TRENCHES, POCKETS, BRICK SHELVES, SLEEVES, PENETRATIONS AND INSERTS IN CONCRETE WALLS AND SLABS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- SEE GENERAL NOTES ON SHEET 5001 FOR ADDITIONAL INFORMATION.

LEGEND:

- [1/- ...] INDICATES BOTTOM OF FOOTING ELEVATION FROM FIRST FLOOR DATUM ELEVATION.
- [1/...] INDICATES TOP OF WALL/PIER ELEVATION FROM FIRST FLOOR DATUM ELEVATION.
- 'SF' INDICATES APPROXIMATE LOCATION OF STEPS IN FOOTINGS ON PLAN. COORDINATE LOCATION AND ELEVATION WITH SITE GRADING AND MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. FOR DETAILS, SEE 'TYPICAL STEPPED FOOTING DETAIL'.
- F-## INDICATES FOOTING TYPE. SEE 'FOOTING SCHEDULE AND FOOTING DETAIL'.
- P-# INDICATES PIER TYPE. SEE 'PIER SCHEDULE AND PIER DETAILS'.
- 'AR-#' INDICATES BASEPLATE AND ANCHOR BOLT SIZES AND DIMENSIONS. SEE 5/5202.
- NOTE 'A': PROVIDE (3)-5'-0" WIDE X 1'-6" HIGH OPN'G IN FDN. WALL FOR PIPE PENS. MAINTAIN 1'-0" WIDE PIER BTWN. OPN'GS. PROVIDE ADD'L (3)-#5 BARS ABOVE & BELOW OPN'G & EXTEND 2'-6" BEYOND OPN'G, EA. SIDE. PROVIDE (4)-#5 VERT. AT PIERS. COORD. W/ MEP DNG'S FOR LOCATION AND ELEVATION.
- NOTE 'B': PROVIDE (2)-3'-0" WIDE X 1'-0" HIGH OPN'G IN FDN. WALL FOR CONDUIT PENS. MAINTAIN 1'-0" WIDE PIER BTWN. OPN'GS. PROVIDE ADD'L (3)-#5 BARS ABOVE & BELOW OPN'G & EXTEND 2'-6" BEYOND OPN'G, EA. SIDE. PROVIDE (4)-#5 VERT. AT PIER. COORD. W/ MEP DNG'S FOR LOCATION AND ELEVATION.

Key Plan

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No.	Date	Issue
5	07/12/2023	ISSUE FOR BID - PHASE 1
4	06/09/2023	ISSUE FOR PERMIT - PHASE 1
2	2023-03-31	PHASE 1 - 50% CDS
1	2020-06-01	DESIGN DEVELOPMENT

Sheet Title

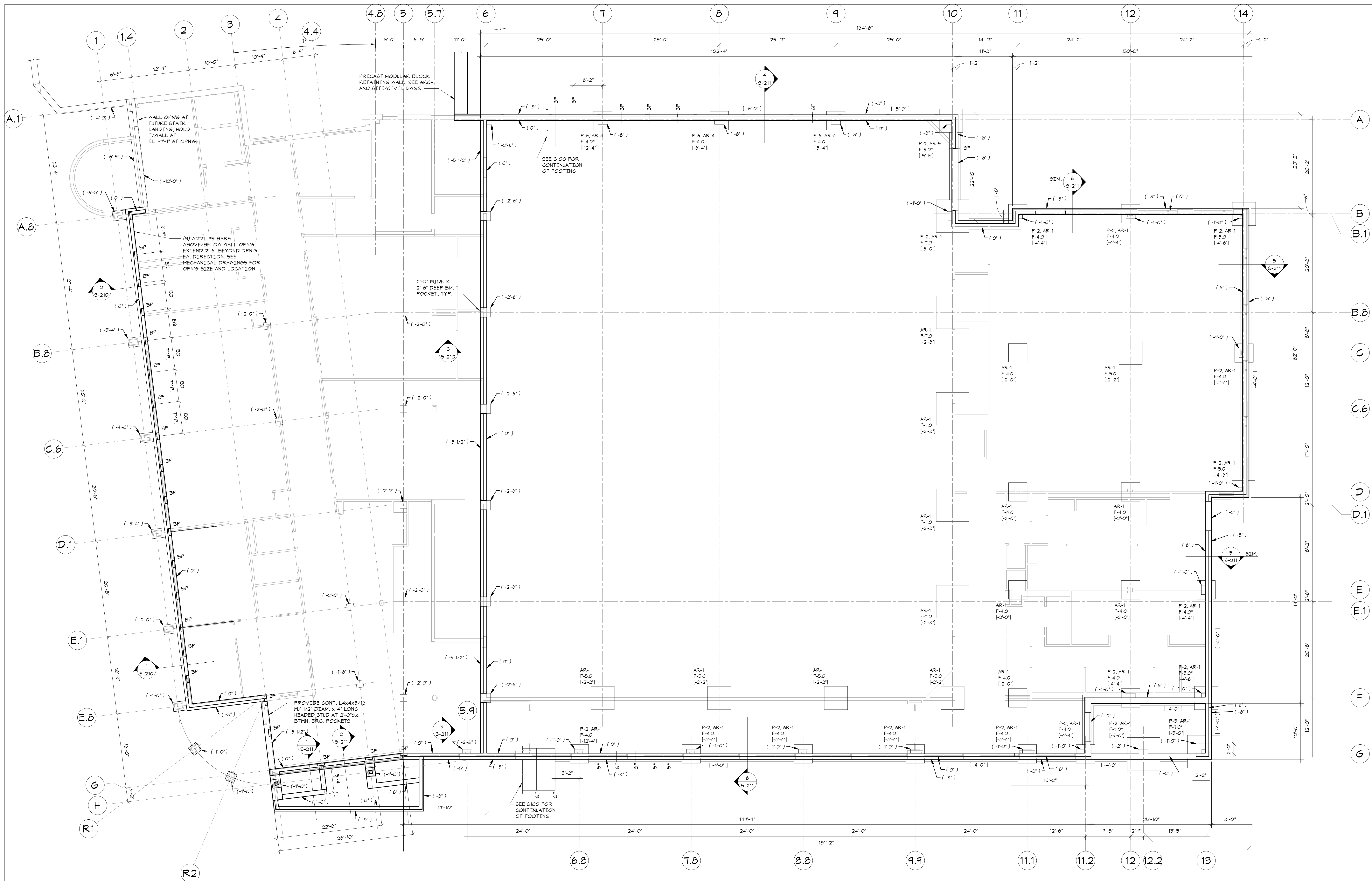
LOWER LEVEL FOUNDATION PLAN

Job No.	Date
20029.00	2020-06-01

Scale	Drawn / Checked
AS NOTED	JM / EM

Sheet Number

S-100



**FIRST FLOOR
FOUNDATION PLAN**

1/8"=1'-0"



- TOP OF FIRST FLOOR = DATUM ELEVATION 0'-0" = TOPOGRAPHICAL ELEVATION = 77.55'
- FOR FOUNDATION CONDITION AT EXTERIOR DOORS, SEE "TYPICAL DETAIL AT EXTERIOR DOORS".
- COORDINATE ALL PITS, TRENCHES, POCKETS, BRICK SHELVES, SLEEVES, PENETRATIONS AND INSERTS IN CONCRETE WALLS AND SLABS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- SEE GENERAL NOTES ON SHEET 5001 FOR ADDITIONAL INFORMATION.

LEGEND:

- [F-#] INDICATES BOTTOM OF FOOTING ELEVATION FROM FIRST FLOOR DATUM ELEVATION.
- [P-#] INDICATES TOP OF MALL/PIER ELEVATION FROM FIRST FLOOR DATUM ELEVATION.
- [BP] INDICATES BEAM BEARING POCKET. SEE DETAIL 5/S202 FOR ANCHOR INFORMATION.
- [SF] INDICATES APPROXIMATE LOCATION OF STEPS IN FOOTINGS ON PLAN. COORDINATE LOCATION AND ELEVATION WITH SITE GRADING AND MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. FOR DETAILS, SEE "TYPICAL STEPPED FOOTING DETAIL".
- F-## INDICATES FOOTING TYPE. SEE "FOOTING SCHEDULE AND FOOTING DETAIL".
- P-## INDICATES PIER TYPE. SEE "PIER SCHEDULE AND PIER DETAILS".
- AR-# INDICATES BASEPLATE AND ANCHOR BOLT SIZES AND DIMENSIONS, SEE 5/S202.

Key Plan

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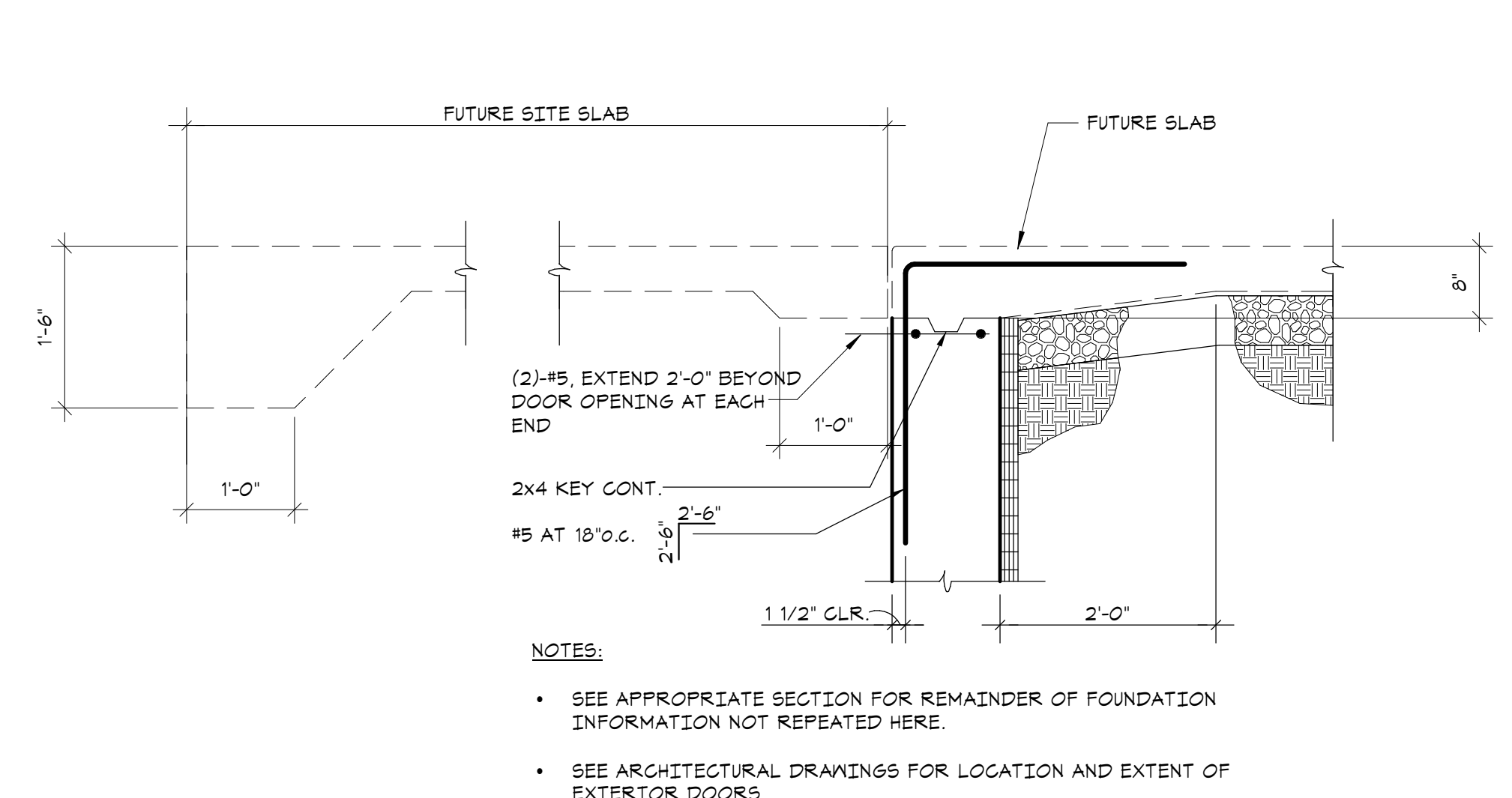
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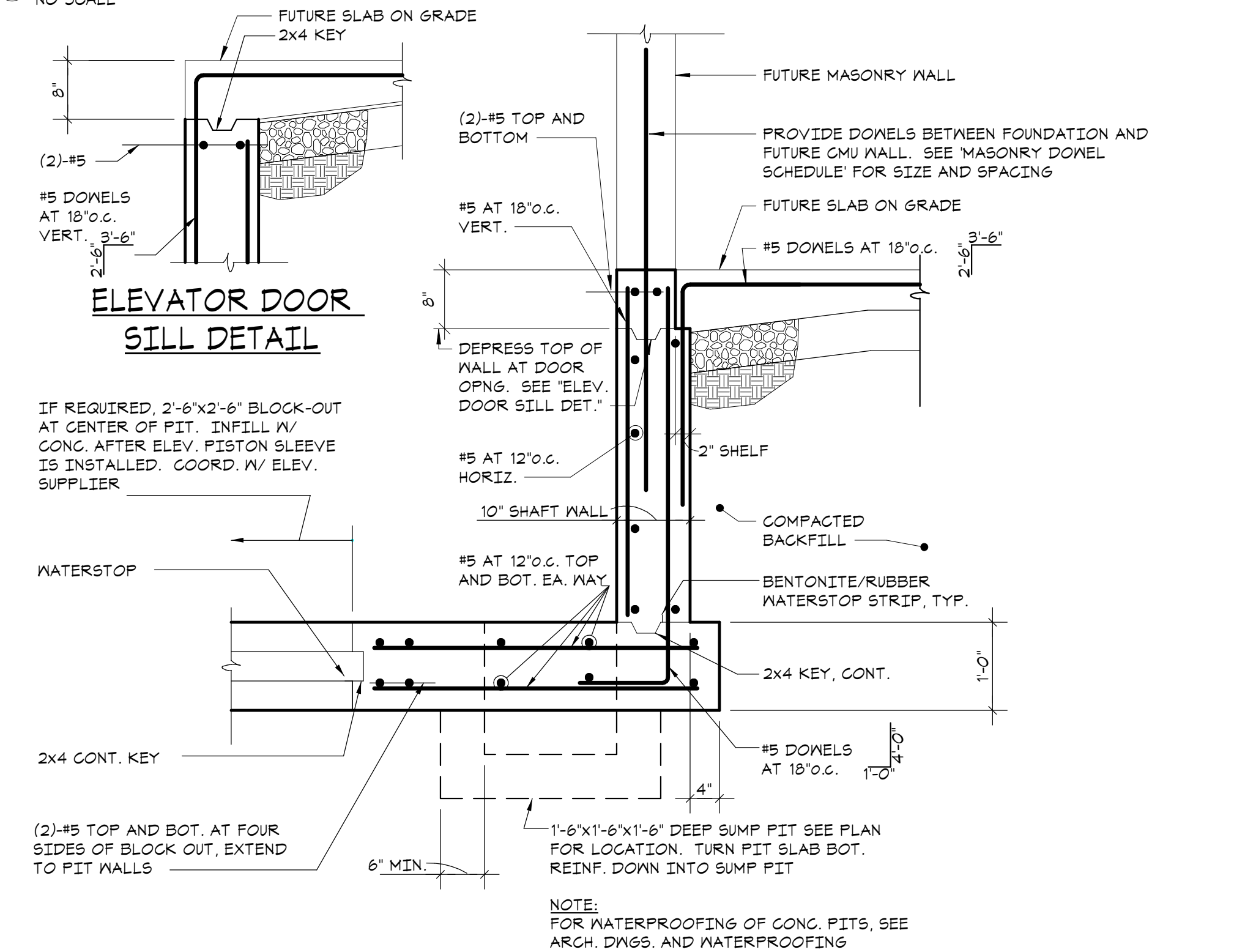
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4	06/09/2023	ISSUE FOR PERMIT - PHASE 1
2	2023-03-31	PHASE 1 - 50% CDS
1	2020-06-01	DESIGN DEVELOPMENT

**FIRST FLOOR
FOUNDATION
PLAN**

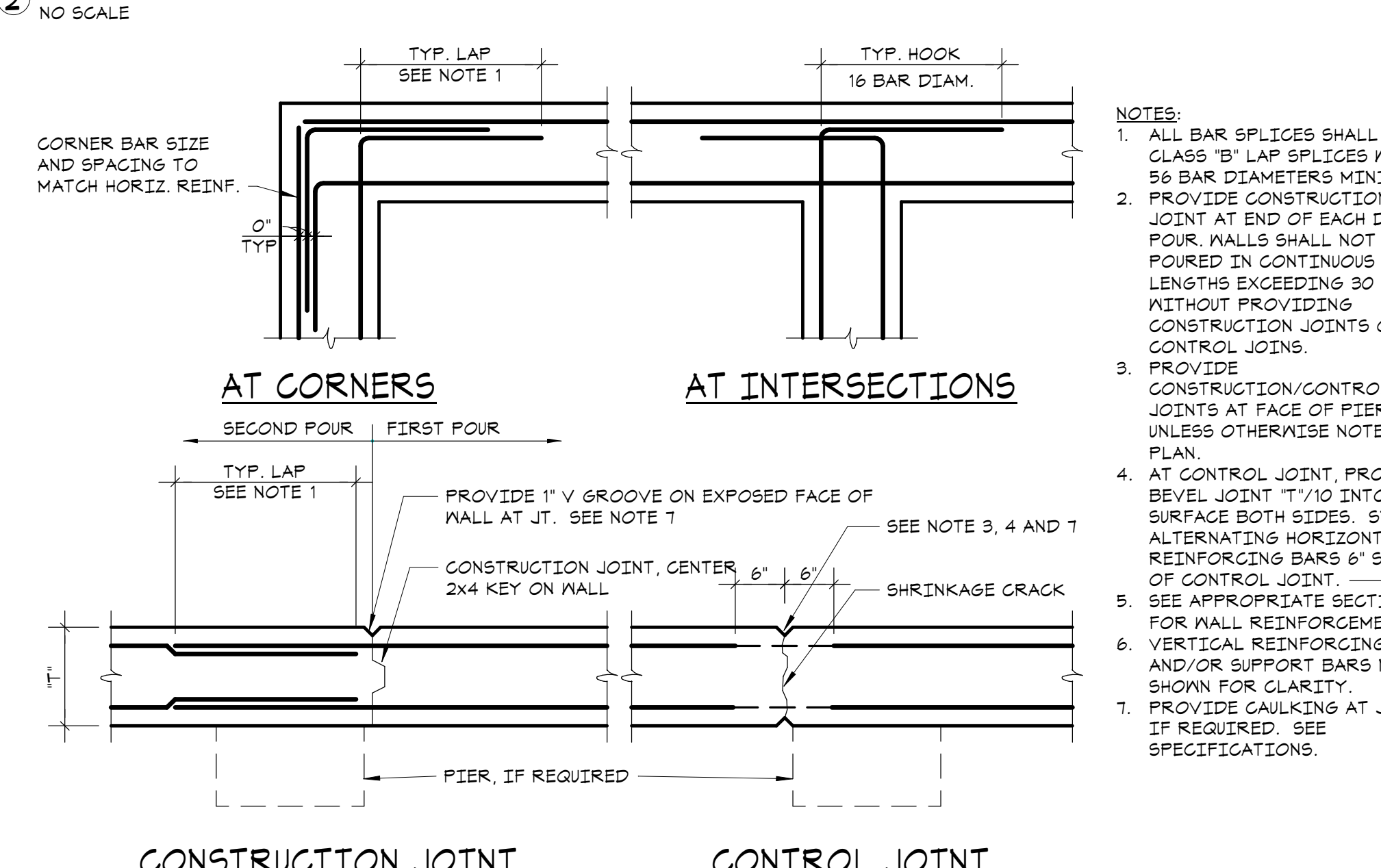
Job No.	20209.00	Date	2020-06-01
Scale	AS NOTED	Drawn / Checked	JM / EM
Sheet Number	S-101		



1 TYPICAL FOUNDATION WALL DETAIL AT EXTERIOR DOORS
NO SCALE



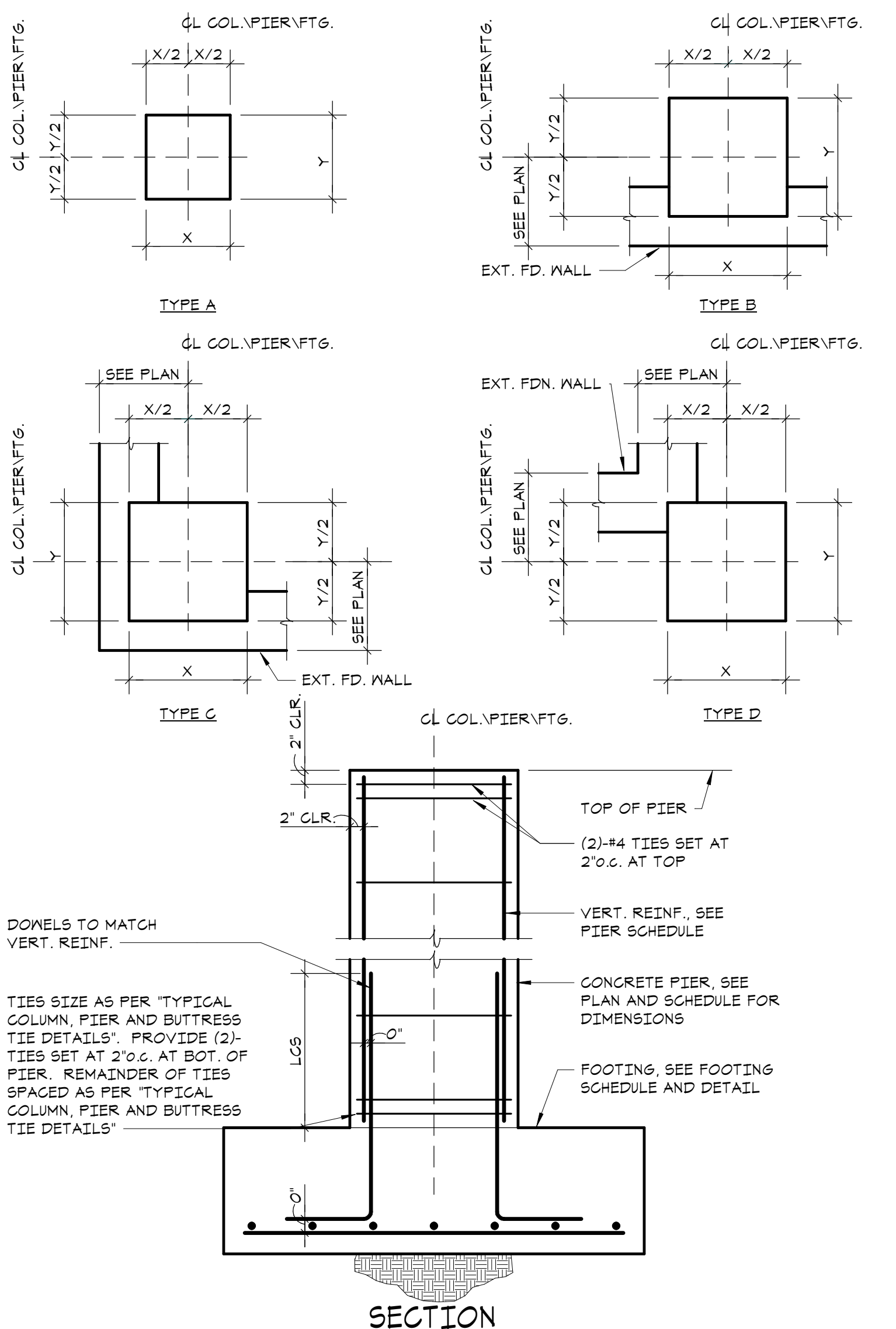
2 TYPICAL ELEVATOR PIT DETAIL
NO SCALE



3 TYPICAL PIER SCHEDULE AND PIER DETAILS
NO SCALE

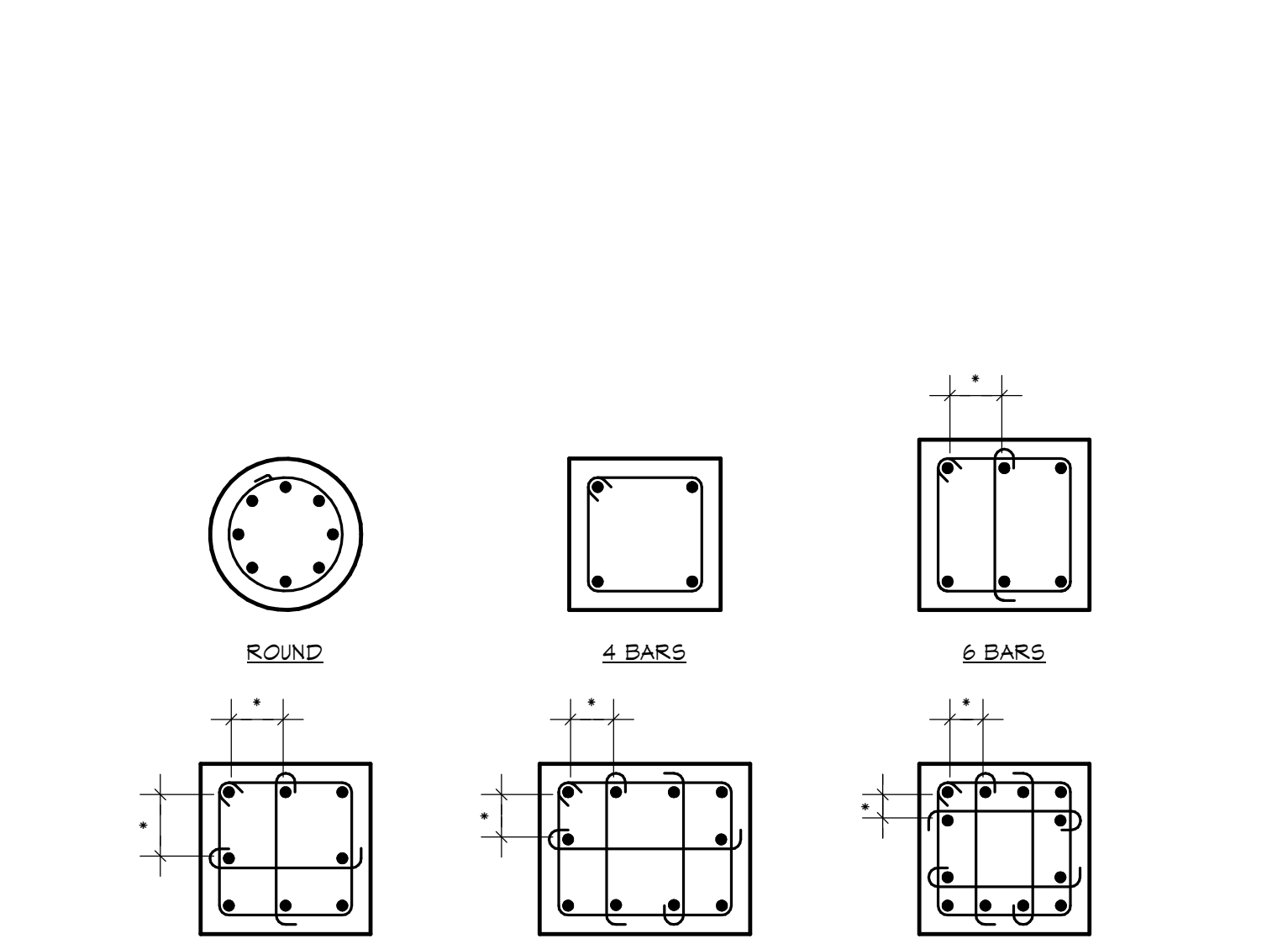
BAR SIZE	EMBED. LENGTH	LAP SPlice LENGTH	TENSION (F _c = 3000 PSI)								TENSION (F _c = 4000 PSI)							
			EMBEDMENT LENGTH				LAP SPlice LENGTH				EMBEDMENT LENGTH				LAP SPlice LENGTH			
			TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS		
#3	9"	12"	22"	33"	17"	25"	24"	43"	23"	33"	19"	28"	15"	22"	25"	37"	20"	24"
#4	11"	15"	24"	43"	22"	33"	36"	56"	24"	43"	25"	37"	19"	24"	33"	44"	25"	38"
#5	14"	19"	36"	54"	28"	42"	47"	71"	37"	55"	31"	47"	24"	36"	41"	62"	32"	47"
#6	17"	23"	43"	65"	33"	50"	56"	85"	43"	65"	37"	56"	24"	46"	44"	73"	38"	56"
#7	20"	27"	63"	94"	48"	72"	82"	123"	63"	94"	54"	81"	42"	63"	71"	106"	55"	82"
#8	22"	30"	72"	107"	55"	83"	94"	140"	72"	108"	62"	93"	48"	72"	81"	121"	63"	94"
#9	25"	34"	81"	121"	62"	93"	106"	158"	81"	121"	70"	105"	54"	81"	91"	137"	71"	106"
#10	28"	39"	91"	136"	70"	105"	114"	177"	91"	137"	74"	118"	61"	91"	103"	154"	80"	114"
#11	31"	43"	101"	151"	78"	116"	132"	197"	101"	151"	87"	131"	71"	101"	114"	171"	88"	132"
#14	38"	NP	121"	181"	93"	140"	NP	NP	NP	NP	105"	157"	81"	121"	NP	NP	NP	NP
#18	50"	NP	161"	242"	124"	186"	NP	NP	NP	NP	140"	204"	108"	161"	NP	NP	NP	NP
SEE NOTE 2	LCE	LCS	LTE				LTS				LTE				LTS			

4 SCHEDULE OF EMBEDMENT AND SPlice LENGTH
NO SCALE



VERTICAL BAR SIZE	SIZE AND SPACING OF TIES		
	#3	#4	#5
#5	10"	-	-
#6	12"	-	-
#7	14"	-	-
#8	16"	16"	-
#9	18"	18"	-
#10	18"	20"	-
#11	†	22"	22"
#14	†	24"	27"
#18	†	24"	30"

5 TYPICAL COLUMN, PIER AND BUTTRESS TIE DETAILS
NO SCALE

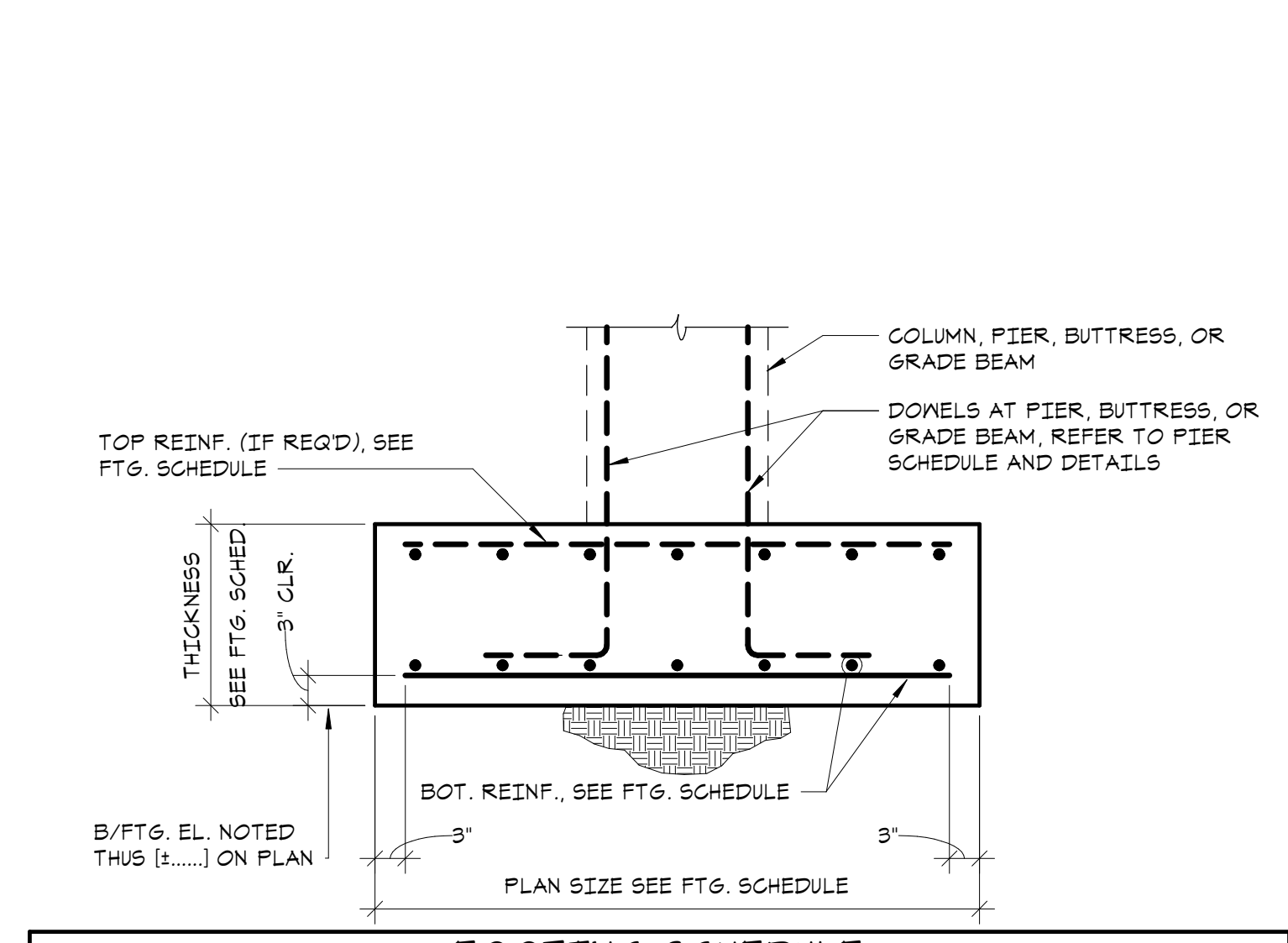


6 TYPICAL TIE ARRANGEMENT
** INDICATES WHEN 6" OR LESS OMIT INTERIOR TIE.

VERTICAL BAR SIZE	SIZE AND SPACING OF TIES		
	#3	#4	#5
#5	10"	-	-
#6	12"	-	-
#7	14"	-	-
#8	16"	16"	-
#9	18"	18"	-
#10	18"	20"	-
#11	†	22"	22"
#14	†	24"	27"
#18	†	24"	30"

NOTES:
1. THE VERTICAL BARS SHALL BE SPACED AROUND THE PERIMETER SO AS TO ACHIEVE APPROXIMATELY EQUAL SPACING.
2. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF EXTERIOR DOORS.
3. TIES SHALL BE ARRANGED SUCH THAT EVERY CORNER AND ALTERNATE VERTICAL BAR SHALL HAVE LATERAL SUPPORT PROVIDED BY THE CORNER OF A TIE WITH AN INCLUDED ANGLE OF NOT MORE THAN 135 DEGREES AND NO BAR SHALL BE FURTHER THAN 6" CLEAR ON EACH SIDE ALONG THE TIE FROM SUCH A LATERALLY SUPPORTED BAR.
4. TIES SHALL BE LOCATED VERTICALLY NOT MORE THAN ONE-HALF A TIE SPACING ABOVE THE TOP OF FOOTING OR SLAB IN ANY STORY, AND SHALL BE SPACED AS PROVIDED HEREIN TO NOT MORE THAN ONE-HALF A TIE SPACING BELOW THE LOWEST HORIZONTAL REINFORCEMENT IN SLAB OR DROP PANEL ABOVE.
5. WHERE BEAMS OR BRACKETS FRAME FROM FOUR DIRECTIONS INTO A COLUMN, PIER OR BUTTRESS, TERMINATION OF TIES NOT MORE THAN 3" BELOW REINFORCEMENT IN SHALLOWEST OF SUCH BEAMS OR BRACKETS SHALL NOT BE PERMITTED.
6. SEE THE GENERAL NOTES ON DRAWING 91 FOR THE MINIMUM CONCRETE COVER REQUIREMENTS FOR REINFORCEMENT.
7. WHERE PIERS ARE ADJACENT TO FOUNDATION WALLS, PIERS ARE TO BE POURED MONOLITHICALLY WITH WALLS, PIER REINFORCEMENT SHALL EXTEND WITHIN 2" OF OPPOSITE FACE WALL.

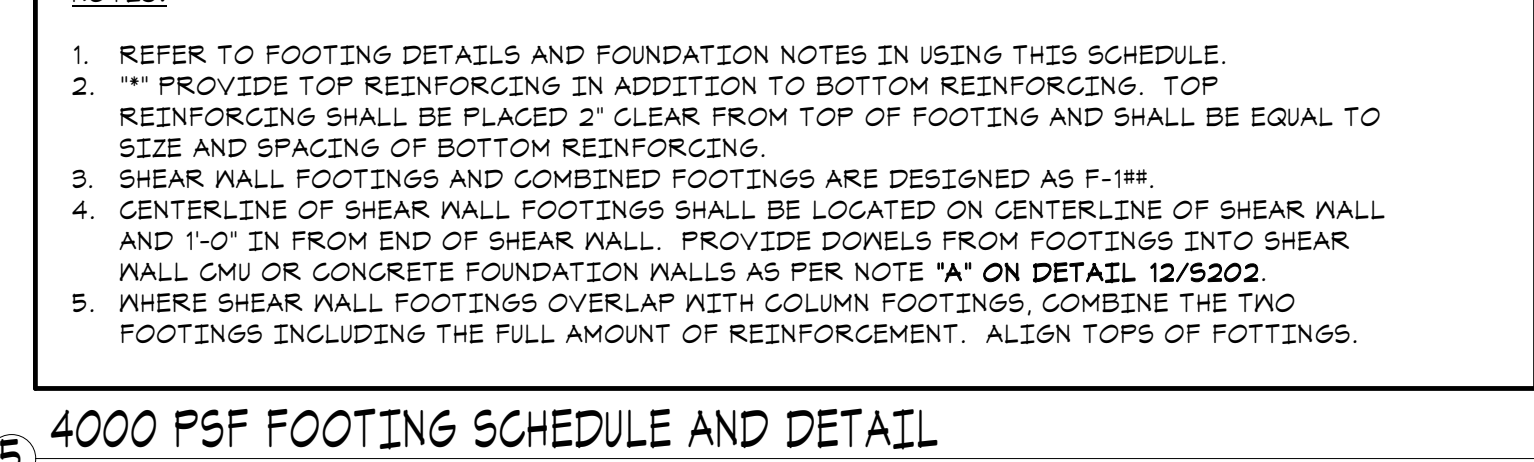
7 4000 PSF FOOTING SCHEDULE AND DETAIL
NO SCALE



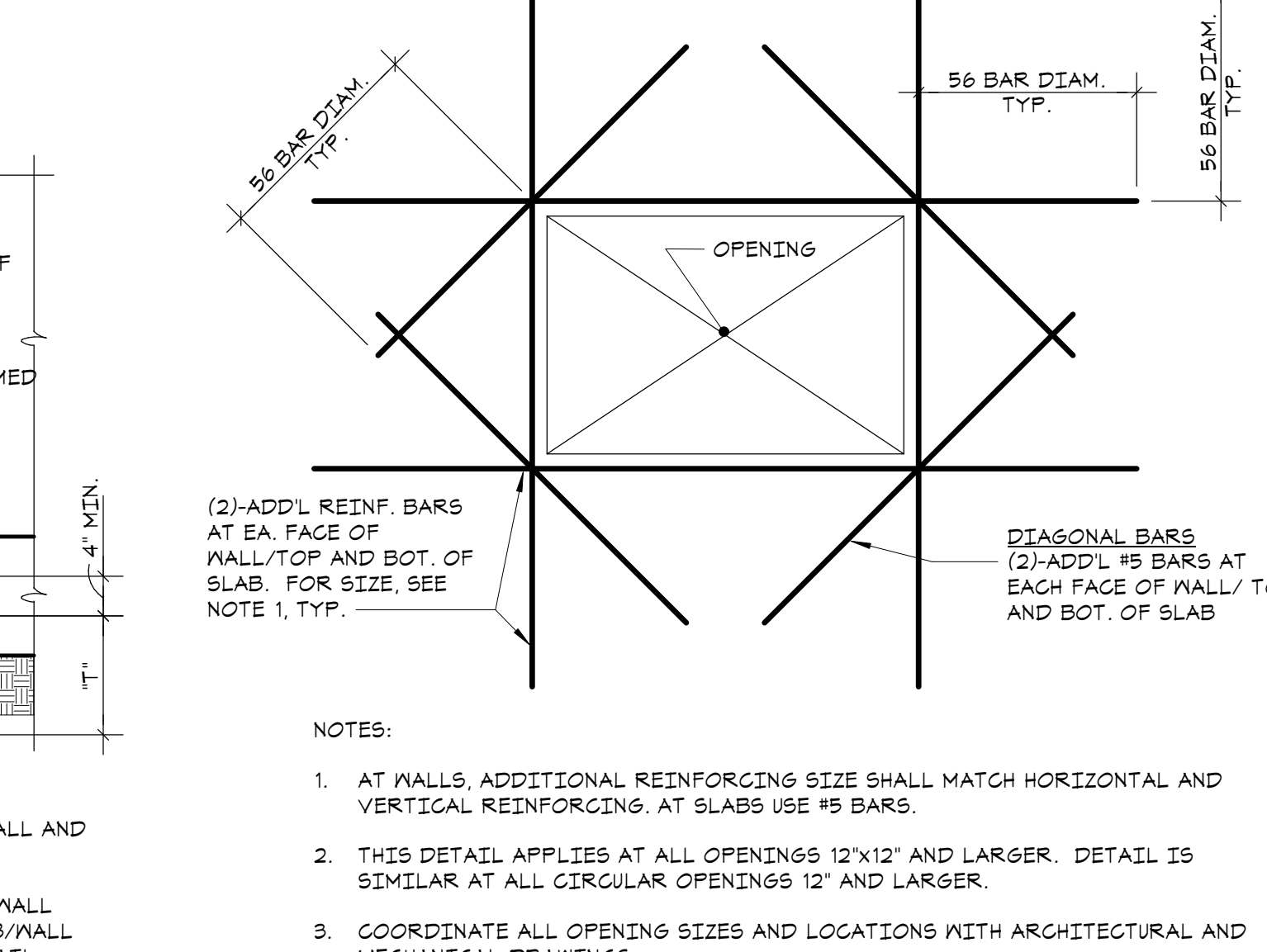
8 4000 PSF FOOTING SCHEDULE AND DETAIL
NO SCALE

MARK	PLAN SIZE		THICKNESS	BOTTOM REINF.		REMARKS
	N-S	E-W		N-S	E-W	
F-3.0	3'-0"	3'-0"	1'-4"	(4)-#5	(4)-#5	
F-3.5	3'-6"	3'-6"	1'-4"	(4)-#5	(4)-#5	
F-4.0	4'-0"	4'-0"	1'-4"	(5)-#5	(5)-#5	
F-4.5	4'-6"	4'-6"	1'-4"	(6)-#5	(6)-#5	
F-5.0	5'-0"	5'-0"	1'-6"	(7)-#5	(7)-#5	
F-5.5	5'-6"	5'-6"	1'-6"	(7)-#5	(7)-#5	
F-6.0	6'-0"	6'-0"	1'-6"	(8)-#5	(8)-#5	
F-6.5	6'-6"	6'-6"	1'-6"	(9)-#5	(9)-#5	
F-7.0	7'-0"	7'-0"	2'-0"	(7)-#7	(7)-#7	
F-7.5	7'-6"	7'-6"	2'-0"	(7)-#7	(7)-#7	
F-8.0	8'-0"	8'-0"	2'-0"	(7)-#7	(7)-#7	
F-8.5	8'-6"	8'-6"	2'-0"	(8)-#7	(8)-#7	
F-9.0	9'-0"	9'-0"	2'-6"	(10)-#7	(10)-#7	
F-9.5	9'-6"	9'-6"	2'-6"	(11)-#7	(11)-#7	
F-10.0	10'-0"	10'-0"	2'-6"	(11)-#7	(11)-#7	
F-11.0	11'-0"	11'-0"	2'-6"	(12)-#7	(12)-#7	
F-12.0	12'-0"	12'-0"	3'-0"	(16)-#7	(16)-#7	
F-13.0	13'-0"	13'-0"	3'-0"	(17)-#7	(17)-#7	
F-14.0	14'-0"	14'-0"	3'-0"	(12)-#8	(12)-#8	

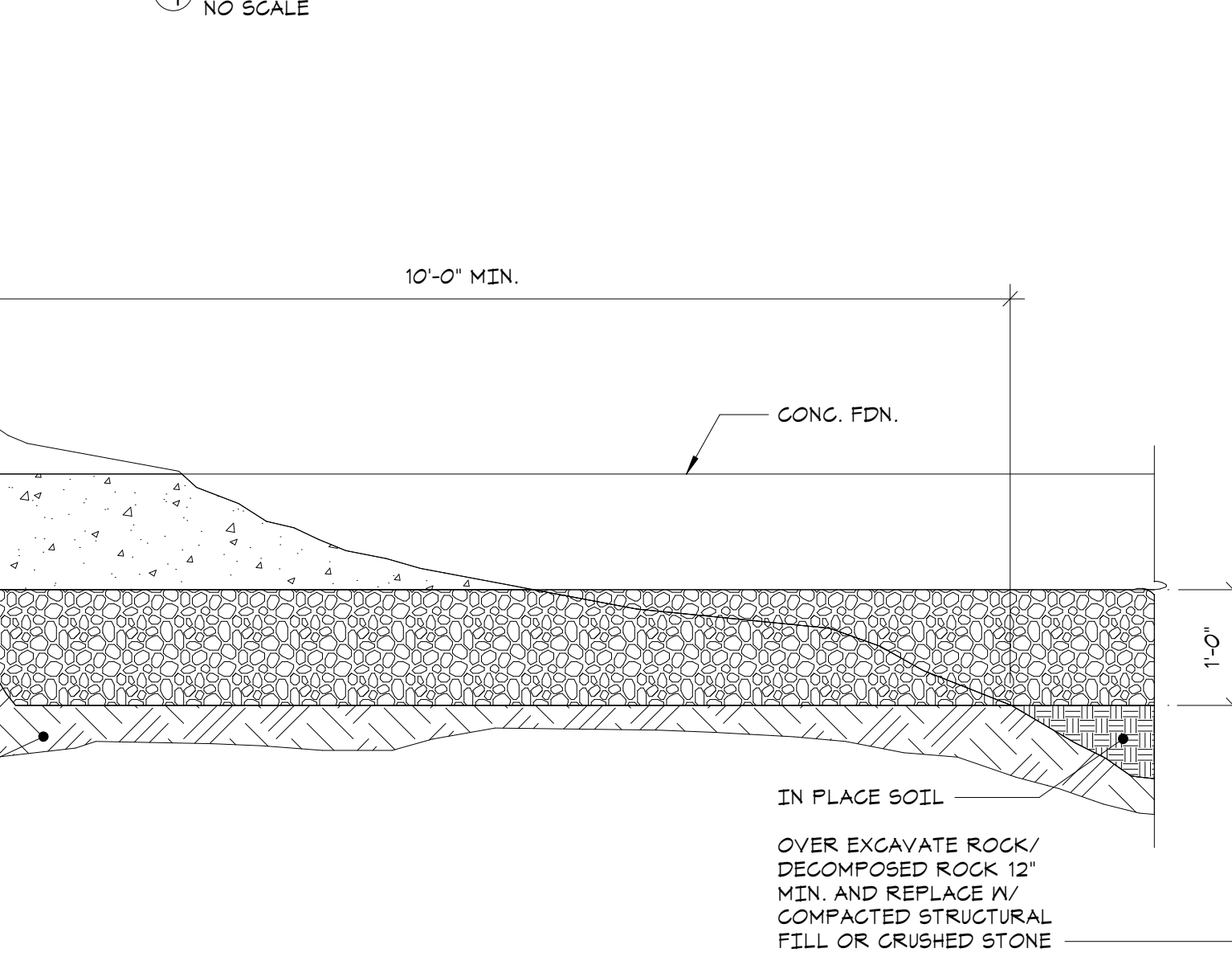
9 TYPICAL CONCRETE WALL CONSTRUCTION DETAIL
NO SCALE



10 TYPICAL STEPPED FOOTING DETAIL
NO SCALE



11 TYPICAL STEP FOOTING DETAIL AT WALL PIPE PENETRATION
NO SCALE



12 FDN. SUB-GRADE PREP. FOR ROCK/SOIL TRANSITION DETAIL
NO SCALE

Key Plan



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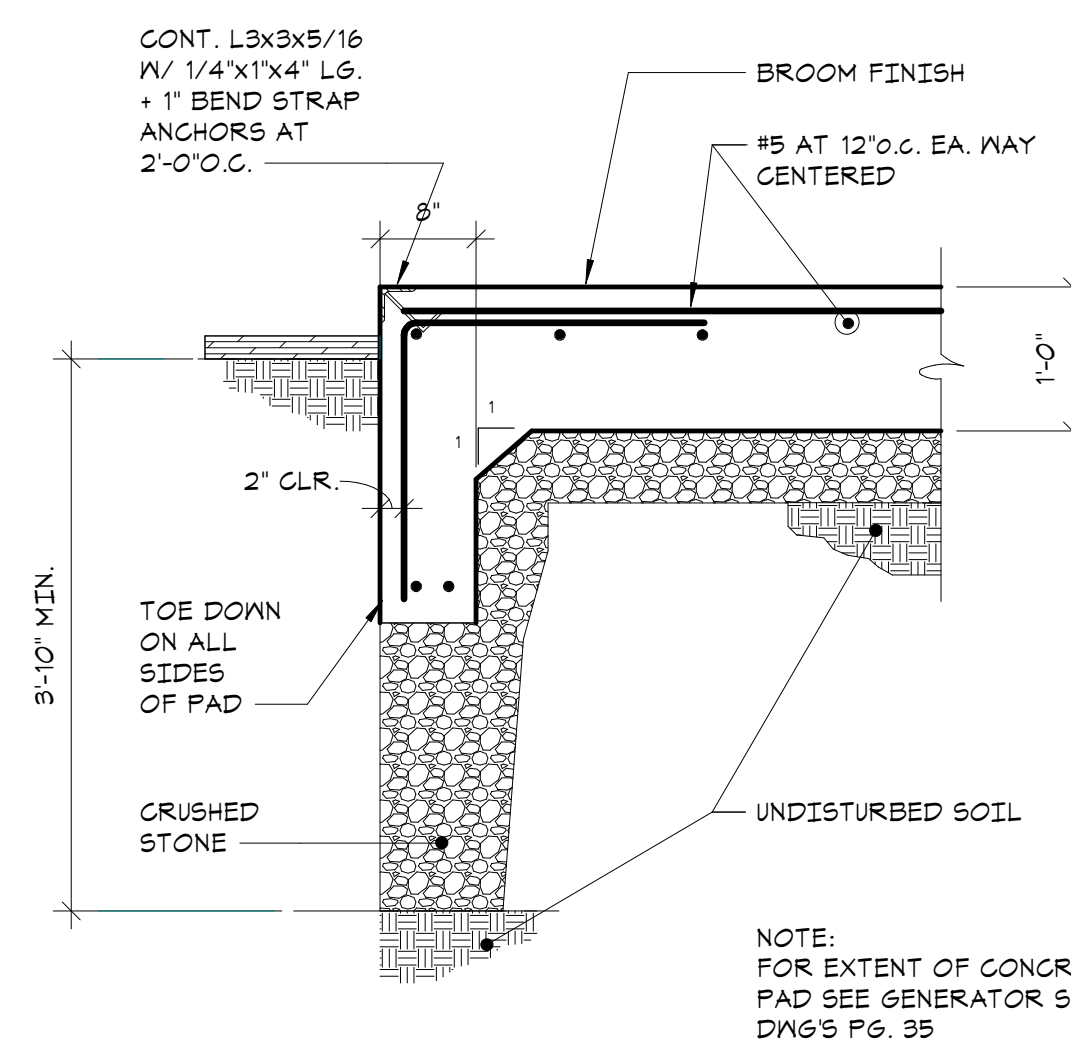
Job No.	Date
20209.00	2020-06-01
Scale	Drawn / Checked
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Sheet Number	

FOUNDATION SCHEDULES AND TYPICAL DETAILS

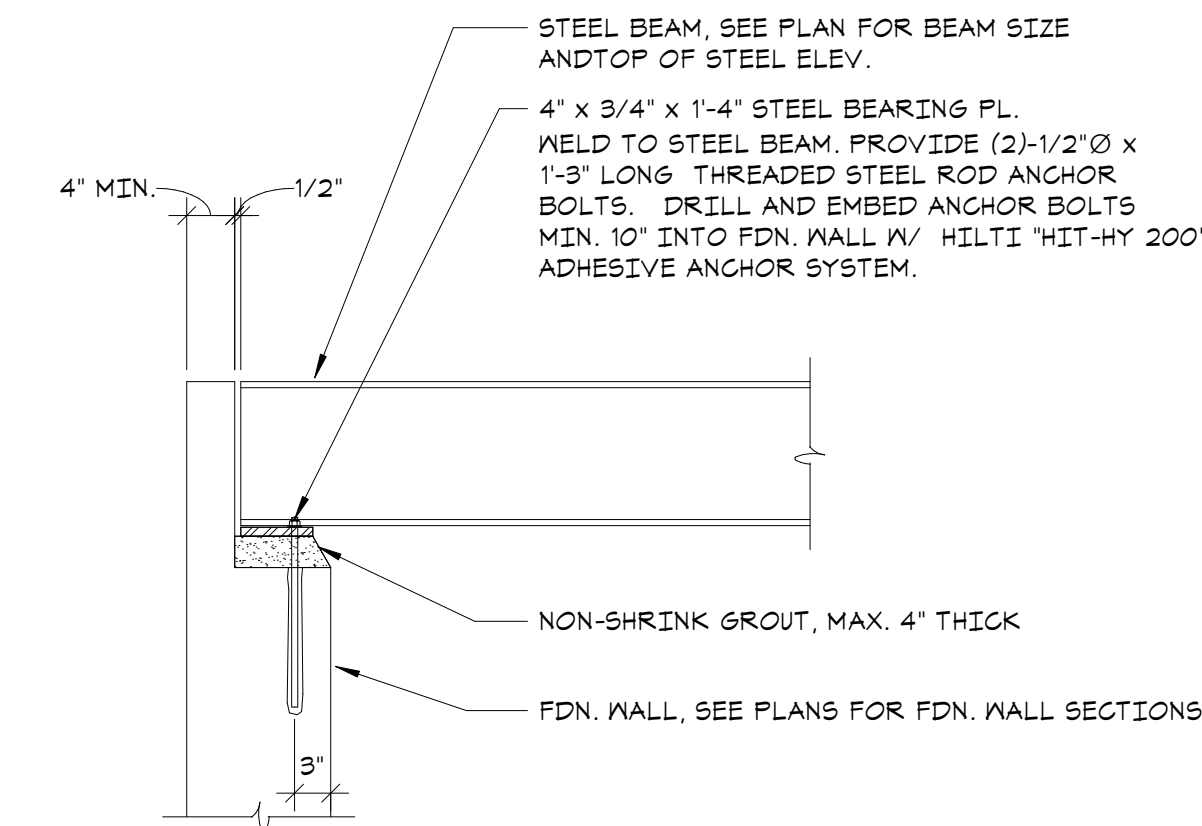
DOWEL SCHEDULE	
MALL DESCRIPTION	VERTICAL REINFORCEMENT
FUTURE 8" CMU SHEAR WALLS, SHAFT WALLS, AND EXTERIOR WALLS	(A) #5 AT 32" O.C.
	(B) (3)-#5
FUTURE 8" CMU PARTITIONS	(A) #4 AT 48" O.C.
	(B) (1)-#4

NOTES:
1. PROVIDE REINFORCING DOWELS BETWEEN FOUNDATION AND FUTURE MASONRY WALL EQUAL TO SIZE AND SPACING OF MASONRY VERT. WALL REINFORCING (MAX. SPACING = 4'-0" O.C.). REINFORCING DOWELS SHALL EXTEND UP FROM FOUNDATION WALLS WITH LENGTHS SUFFICIENT TO PROVIDE FOR LAP LENGTHS OF 48 BAR DIAMETERS.

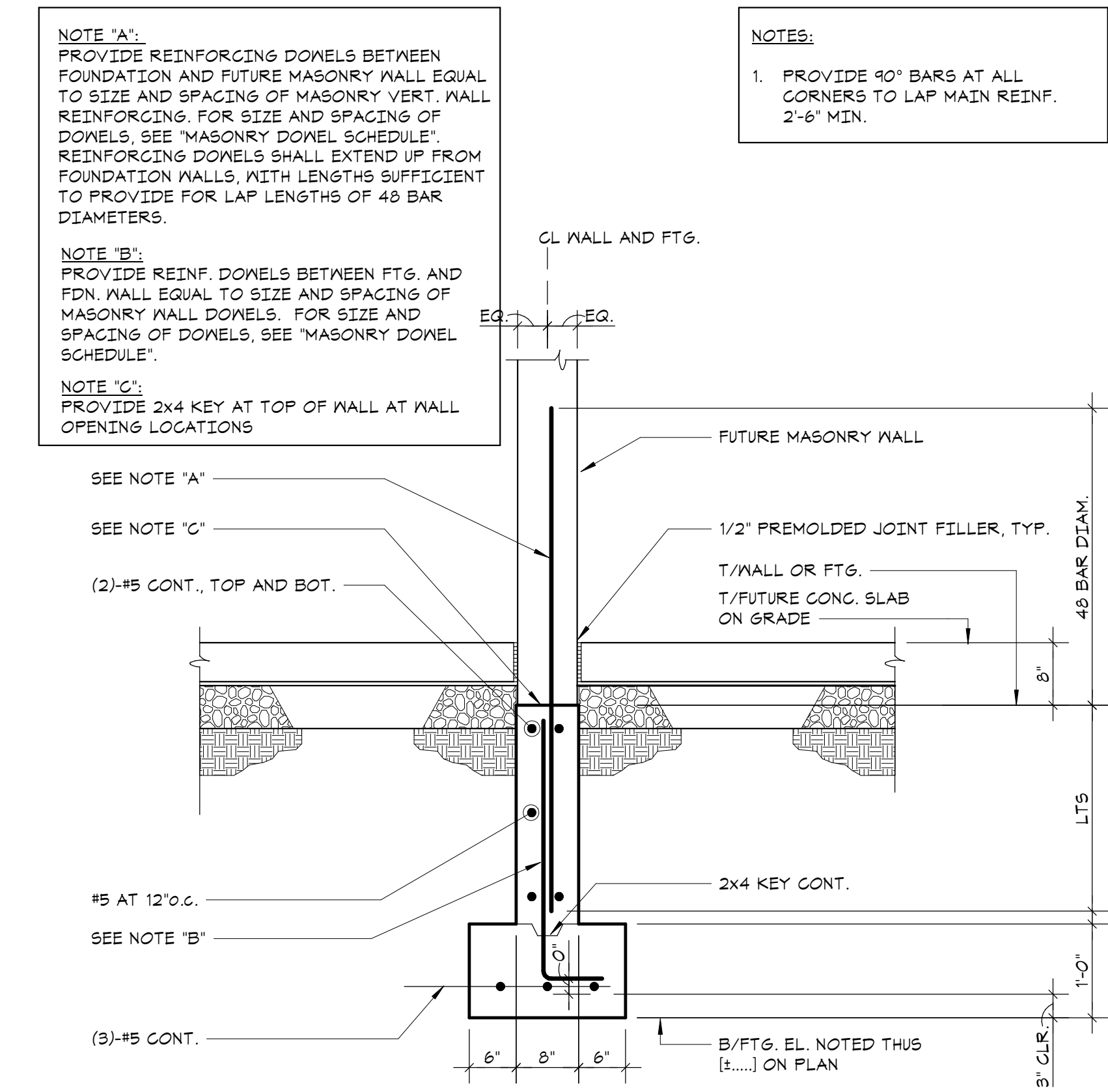
KEYNOTES	
(A)	DOWELS FOR TYPICAL VERTICAL REINFORCING
(B)	DOWELS FOR VERT. FULL HEIGHT REINF. AT WALL ENDS, CORNERS, AND EA. SIDE OF C/S



2 EQUIPMENT PAD DETAIL
NO SCALE

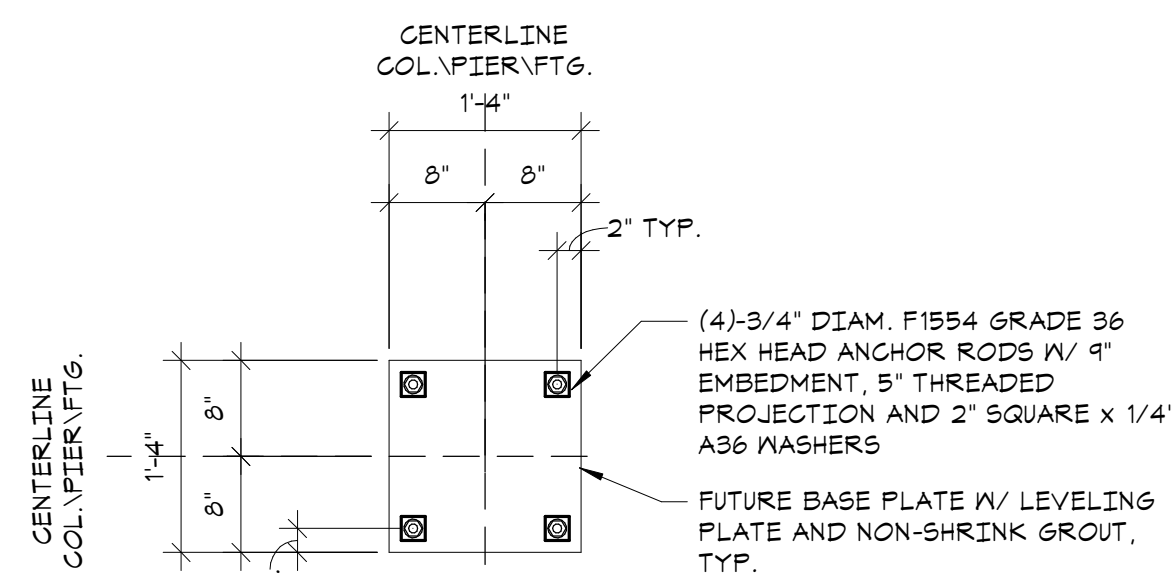


3 TYPICAL BEAM BEARING ON CONG. FDN WALL
NO SCALE

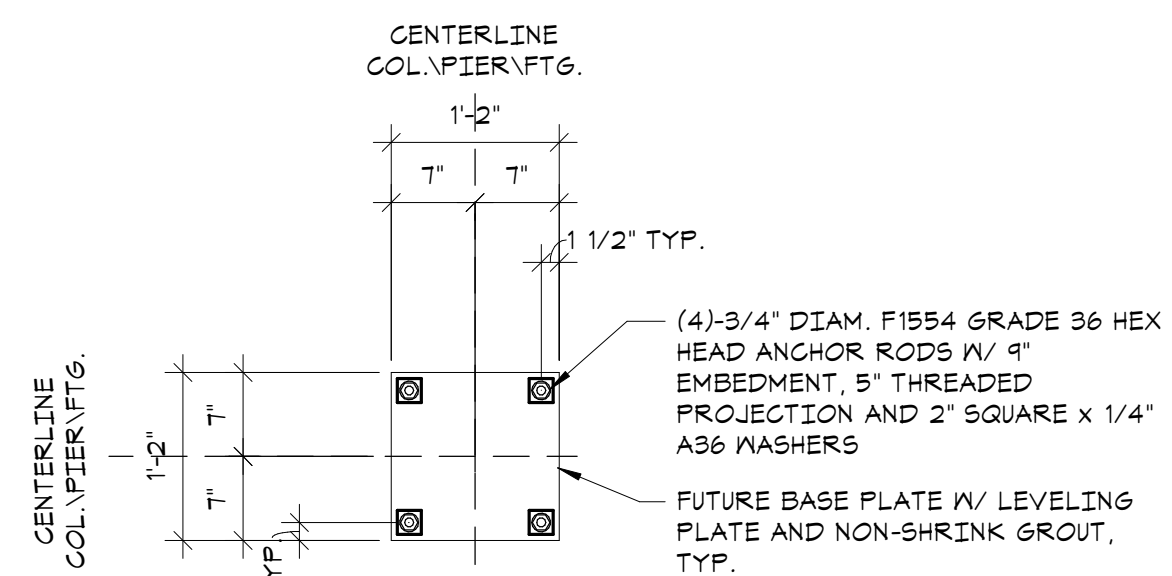


4 TYPICAL FOUNDATION DETAIL FOR FUTURE MASONRY WALLS
NO SCALE

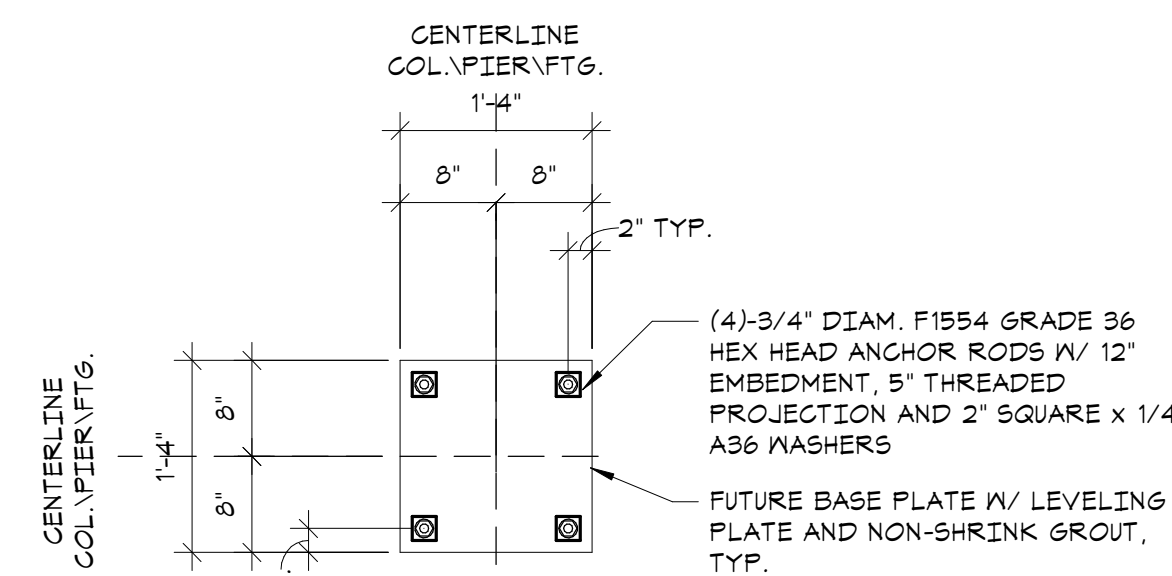
1 MASONRY DOWEL SCHEDULE
NO SCALE



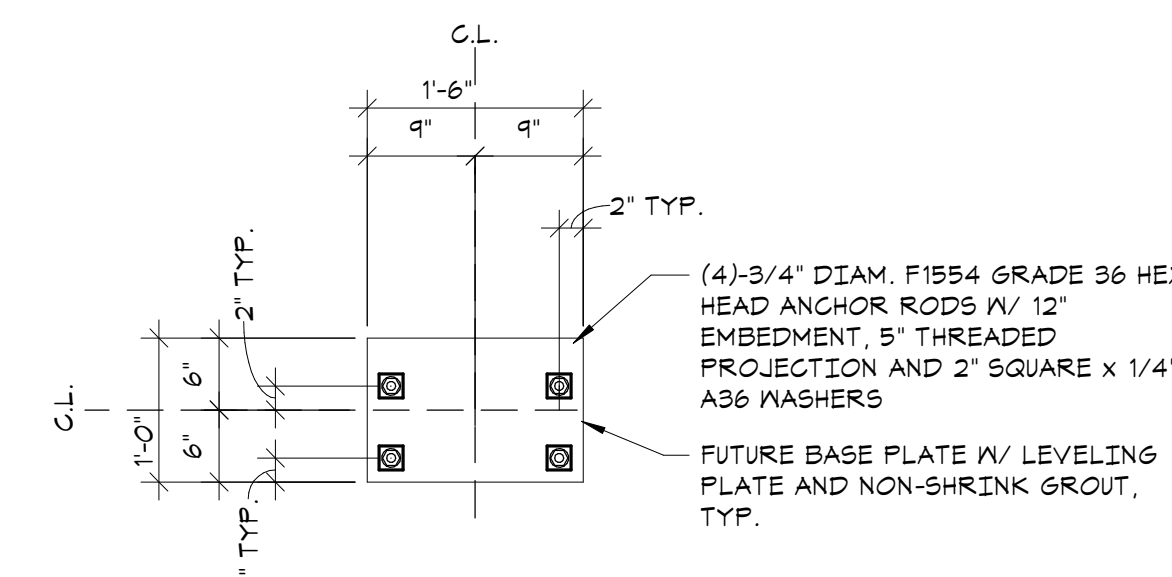
AR-1
BASE PLATE DETAIL



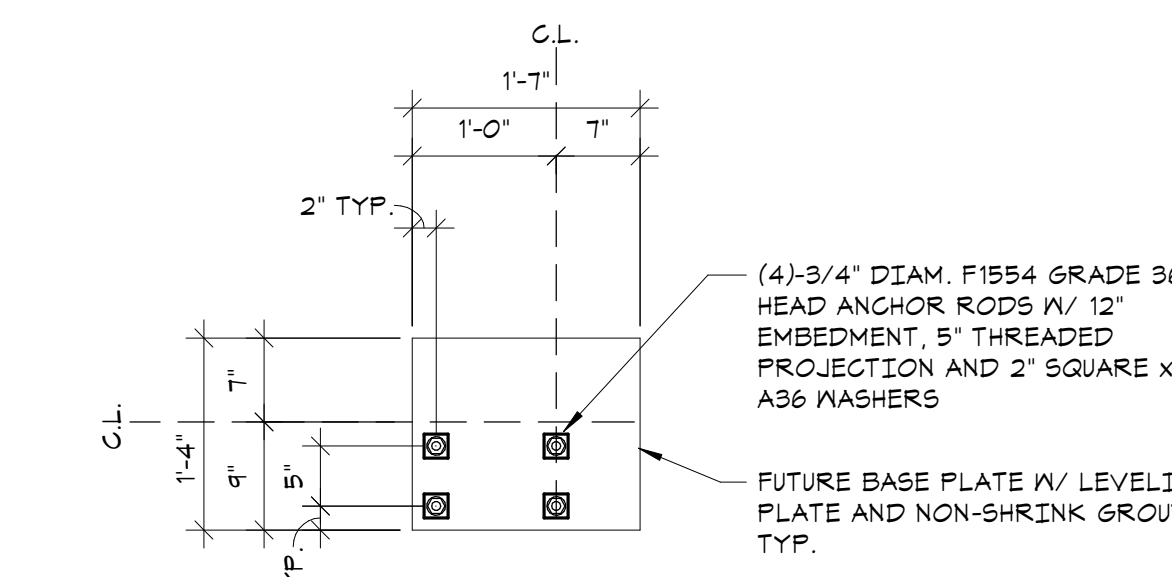
AR-2
BASE PLATE DETAIL



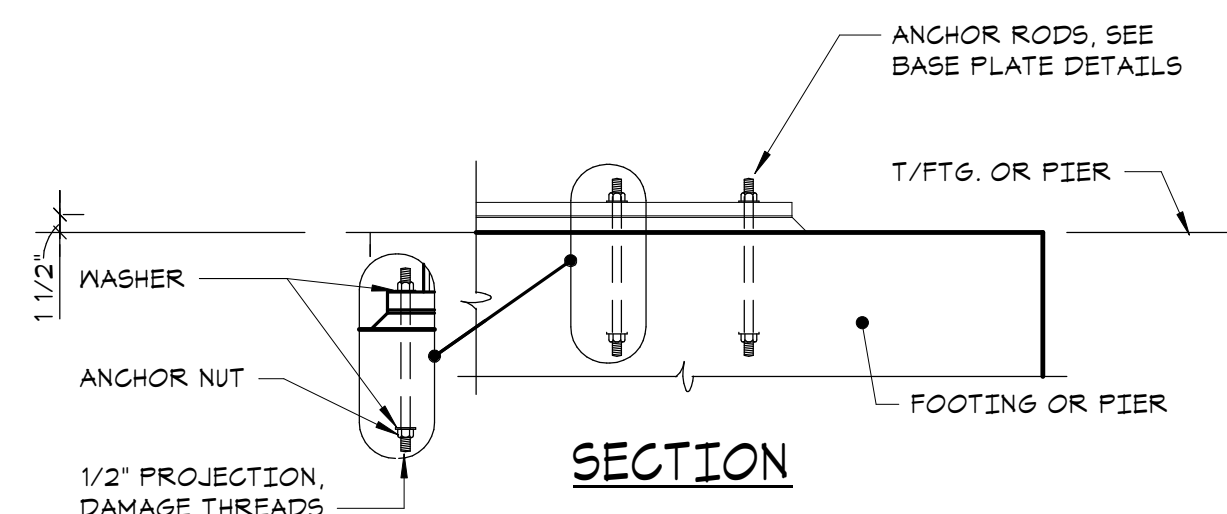
AR-3
BASE PLATE DETAIL



AR-4
BASE PLATE DETAIL



AR-5
BASE PLATE DETAIL



5 TYPICAL BASE PLATE ANCHOR DETAILS
NO SCALE

Key Plan

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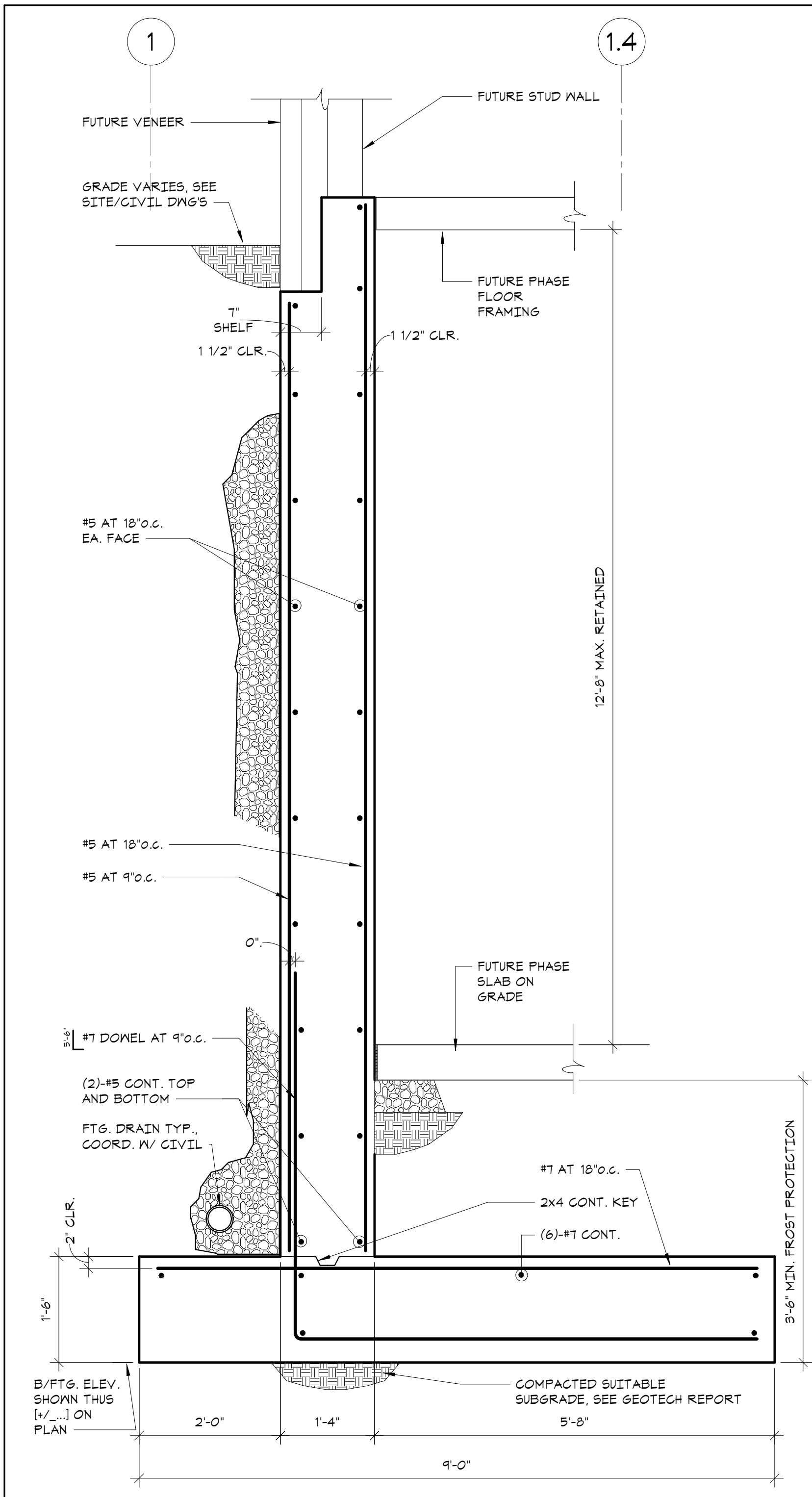
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4	06/09/2023	ISSUE FOR PERMIT - PHASE 1

No. Date Issue

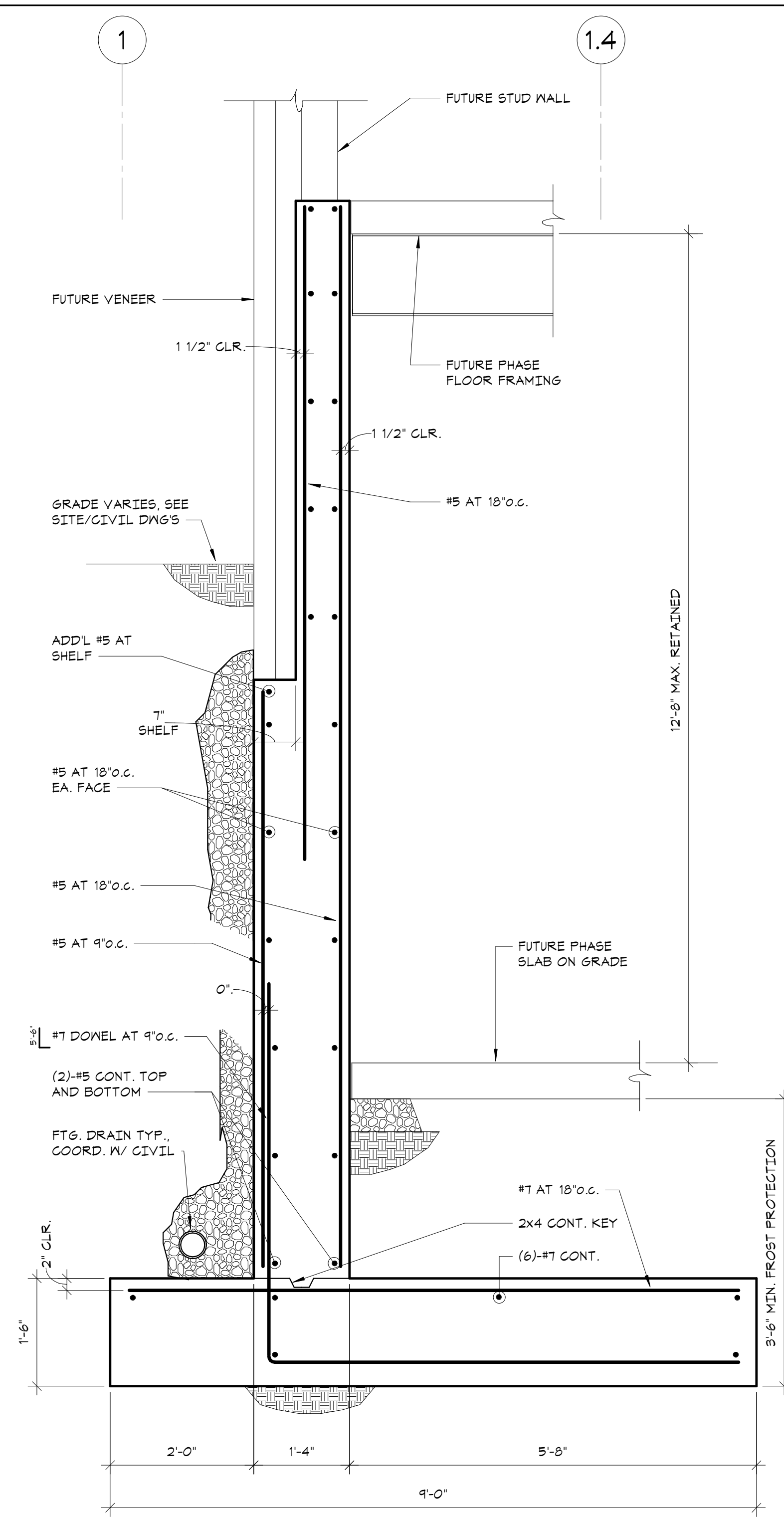
Sheet Title
FOUNDATION SCHEDULES AND TYPICAL DETAILS

Job No. 20029.00 Date 04/20/23
Scale AS NOTED Drawn / Checked Author Checker

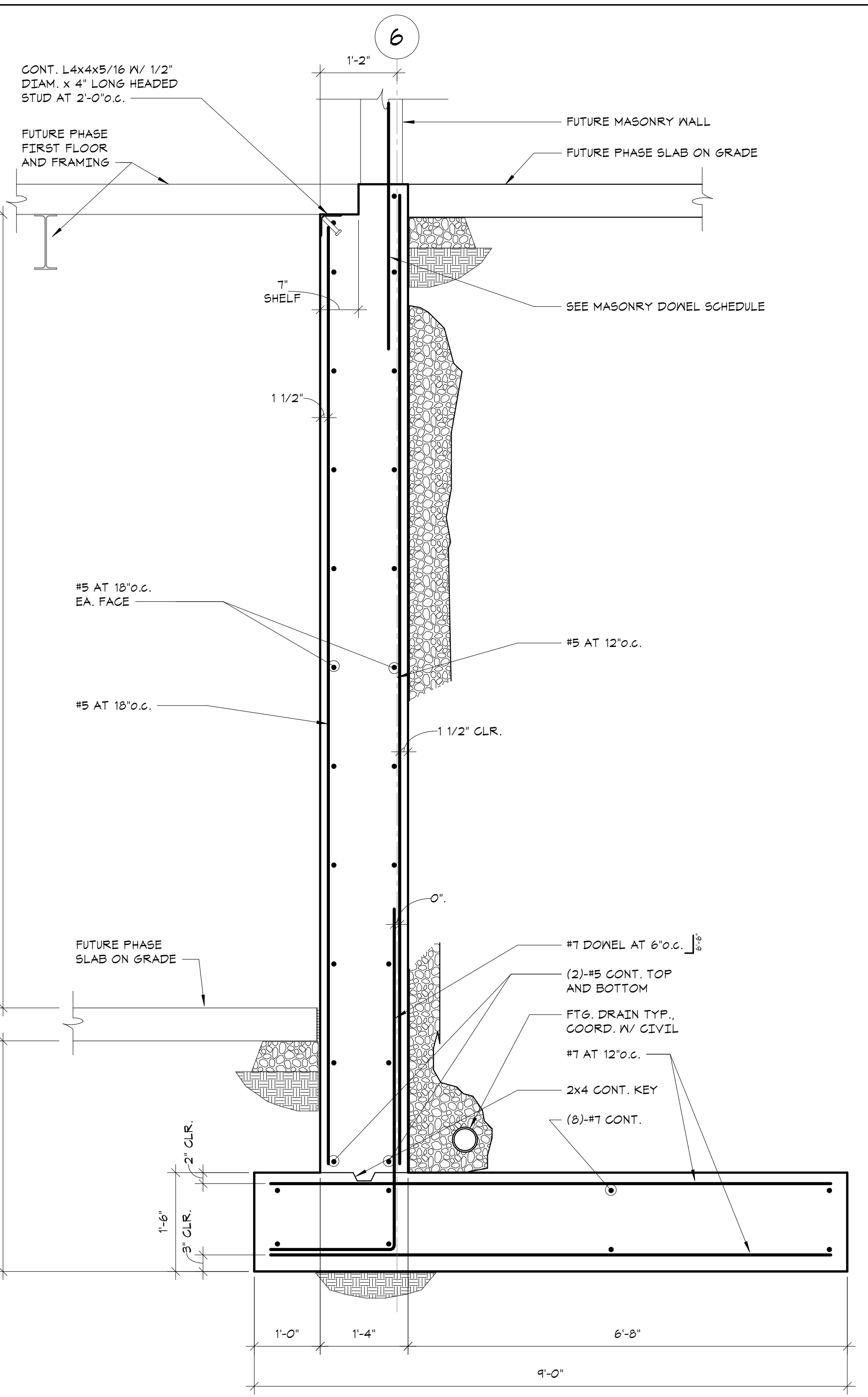
Sheet Number
S-202



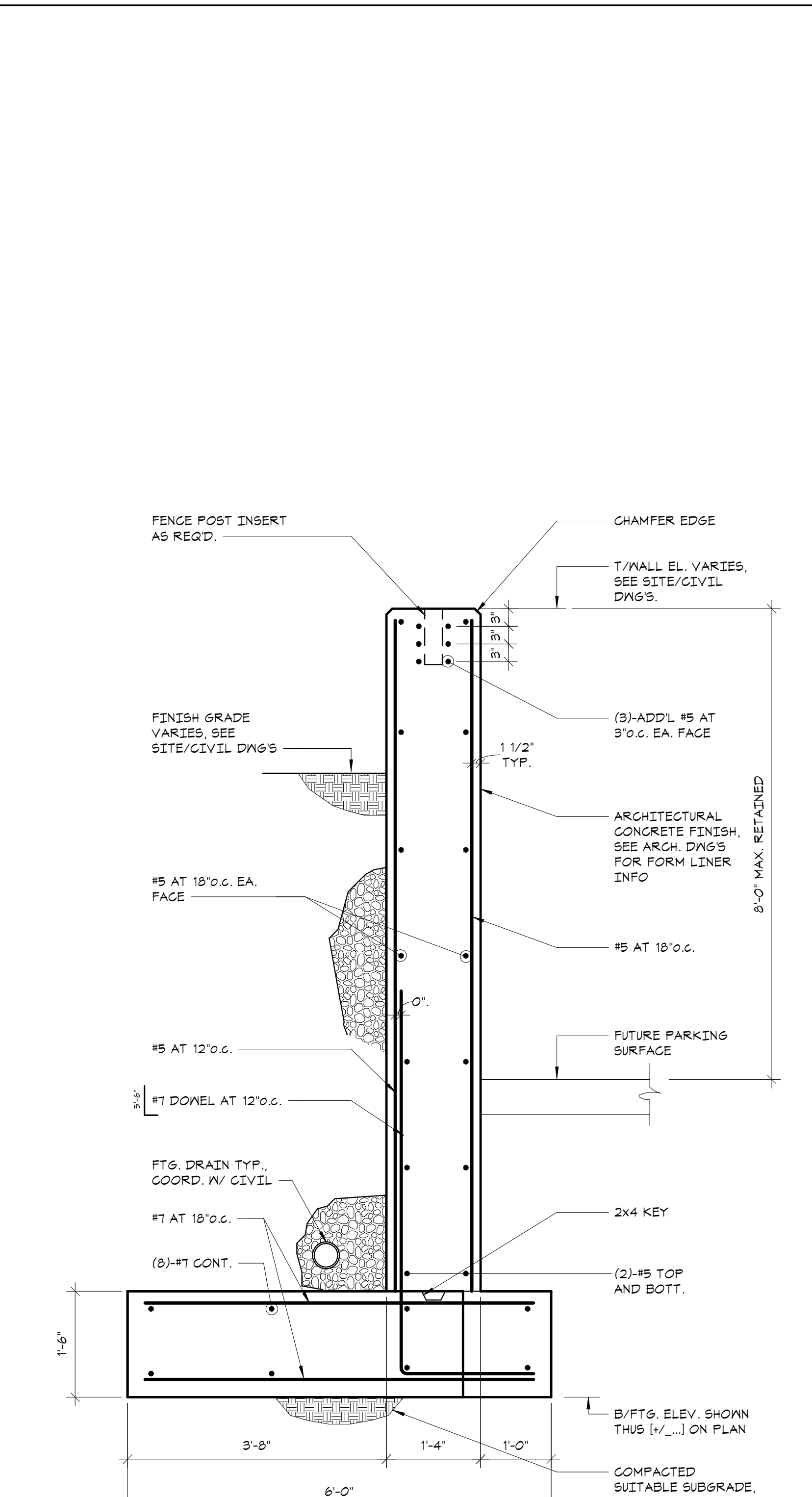
SECTION 1
3/4" = 1'-0"



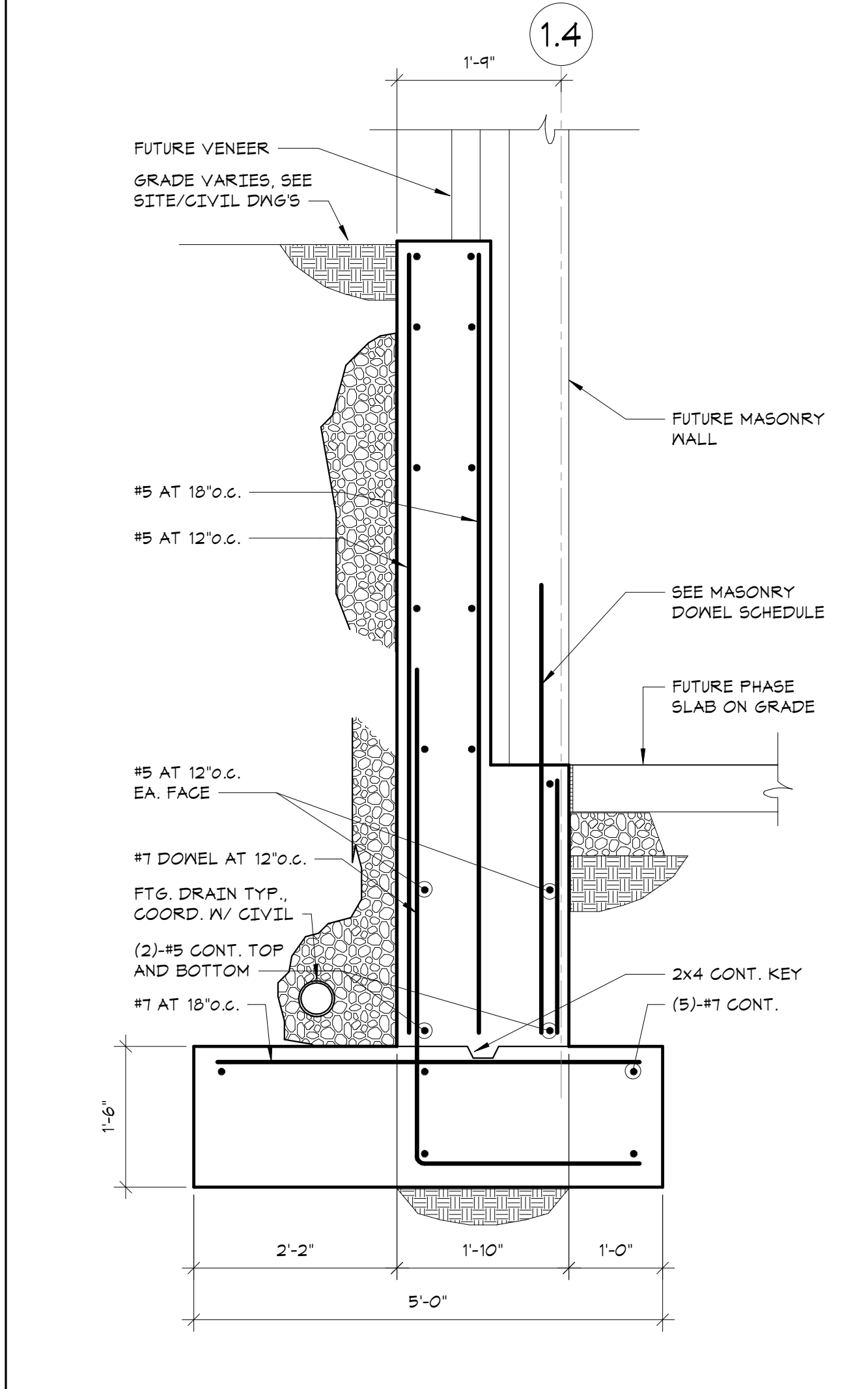
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3/4" = 1'-0"



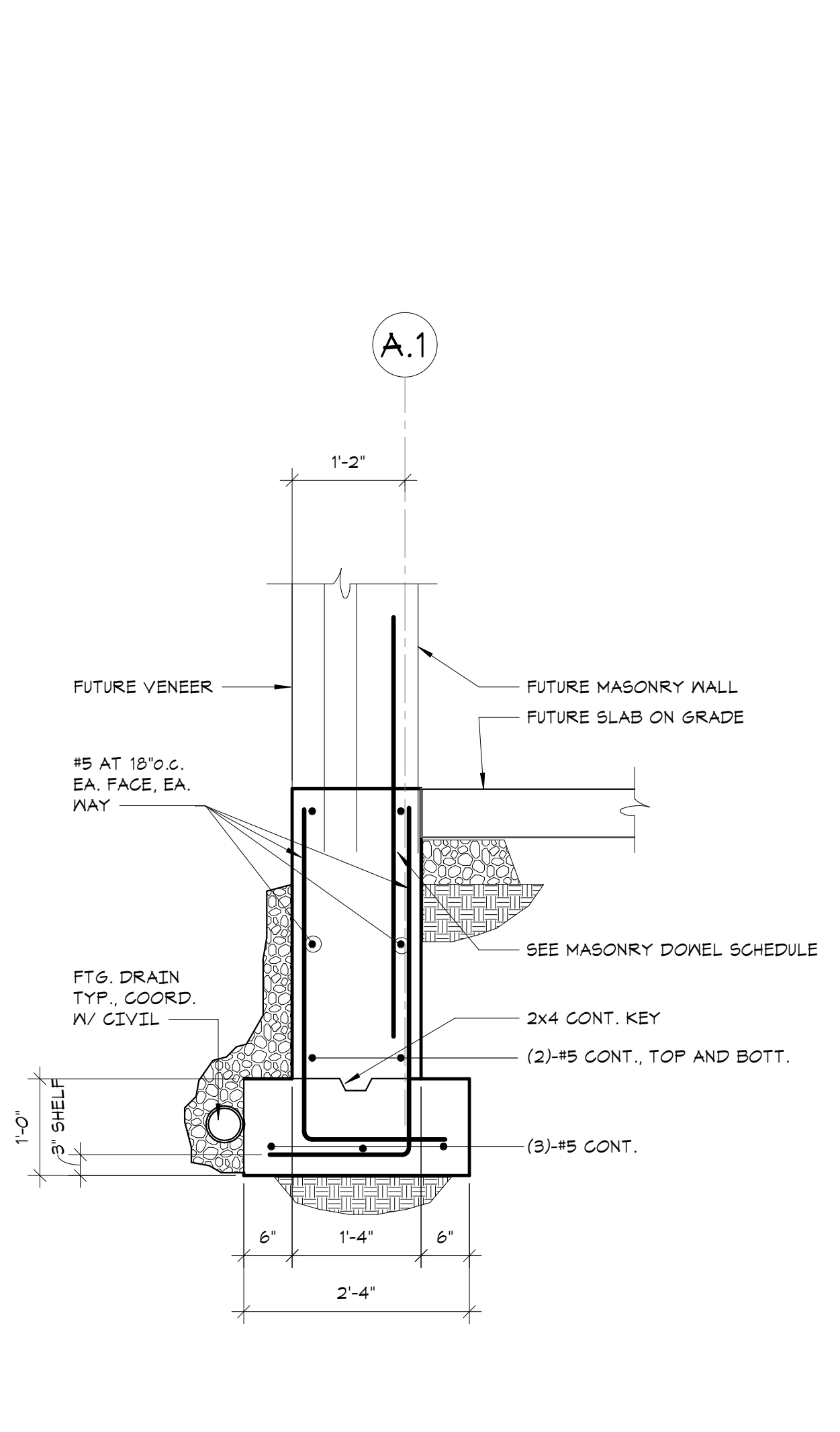
SECTION 3
3/4" = 1'-0"



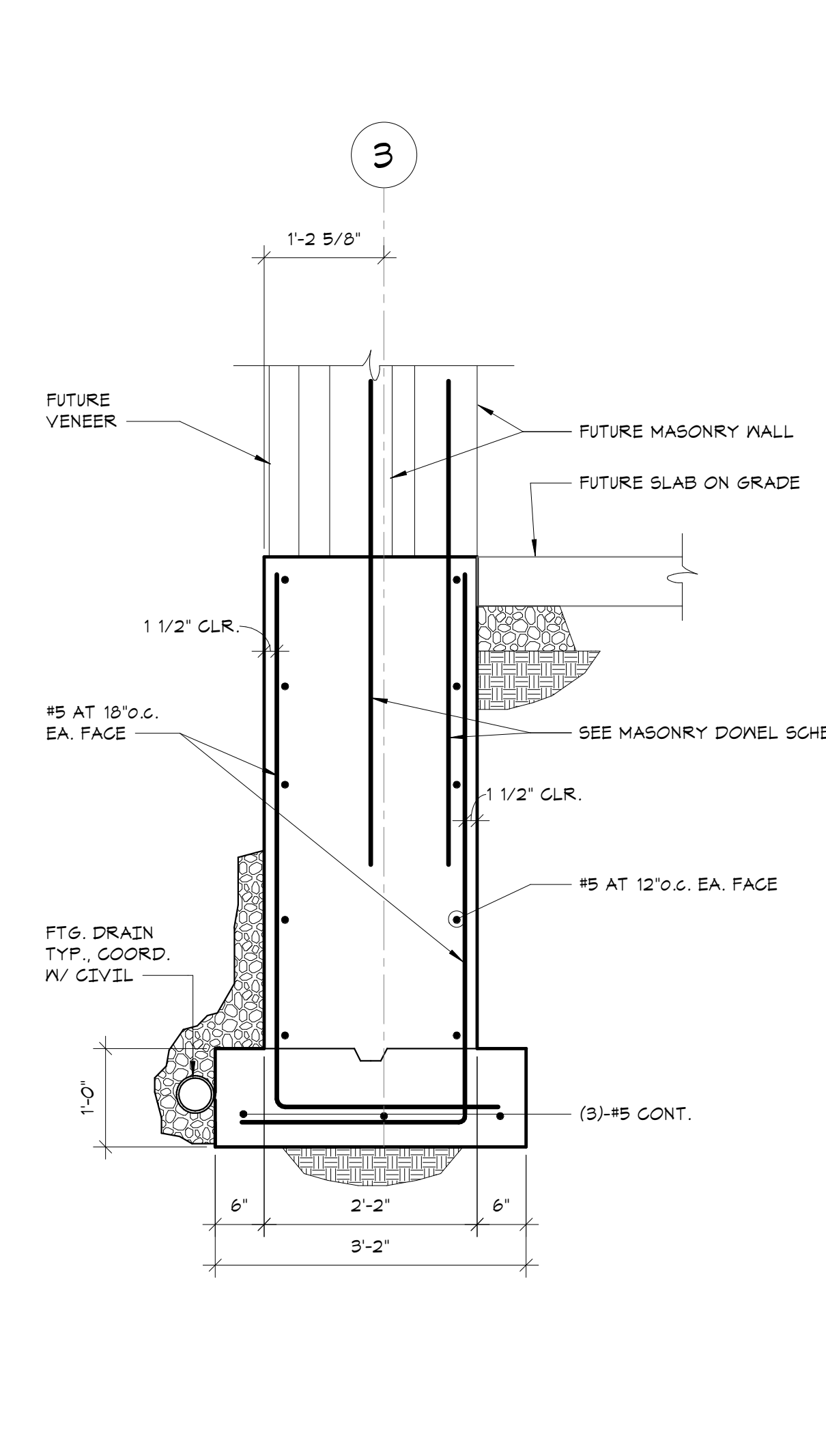
SECTION 4
3/4" = 1'-0"



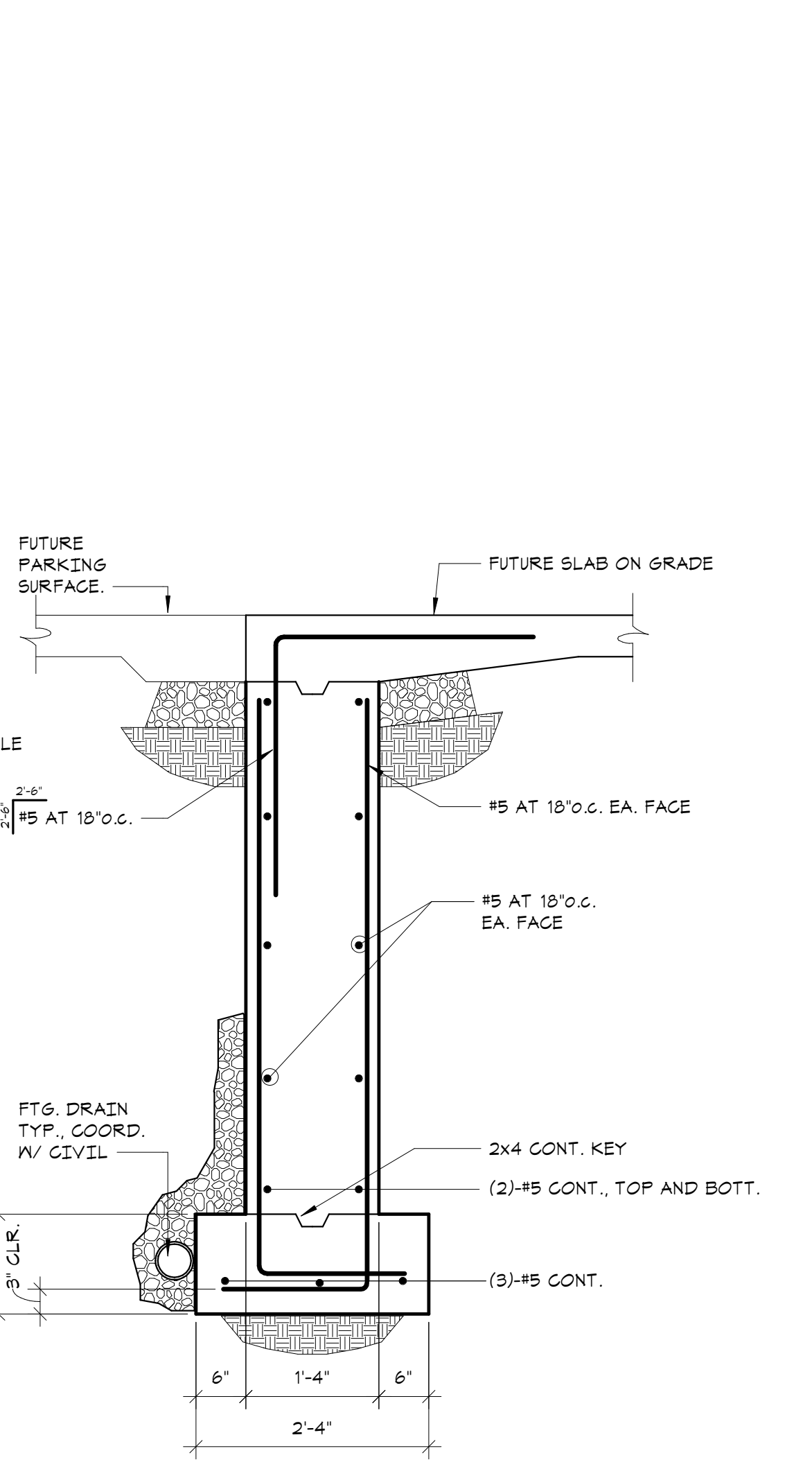
SECTION 5
3/4" = 1'-0"



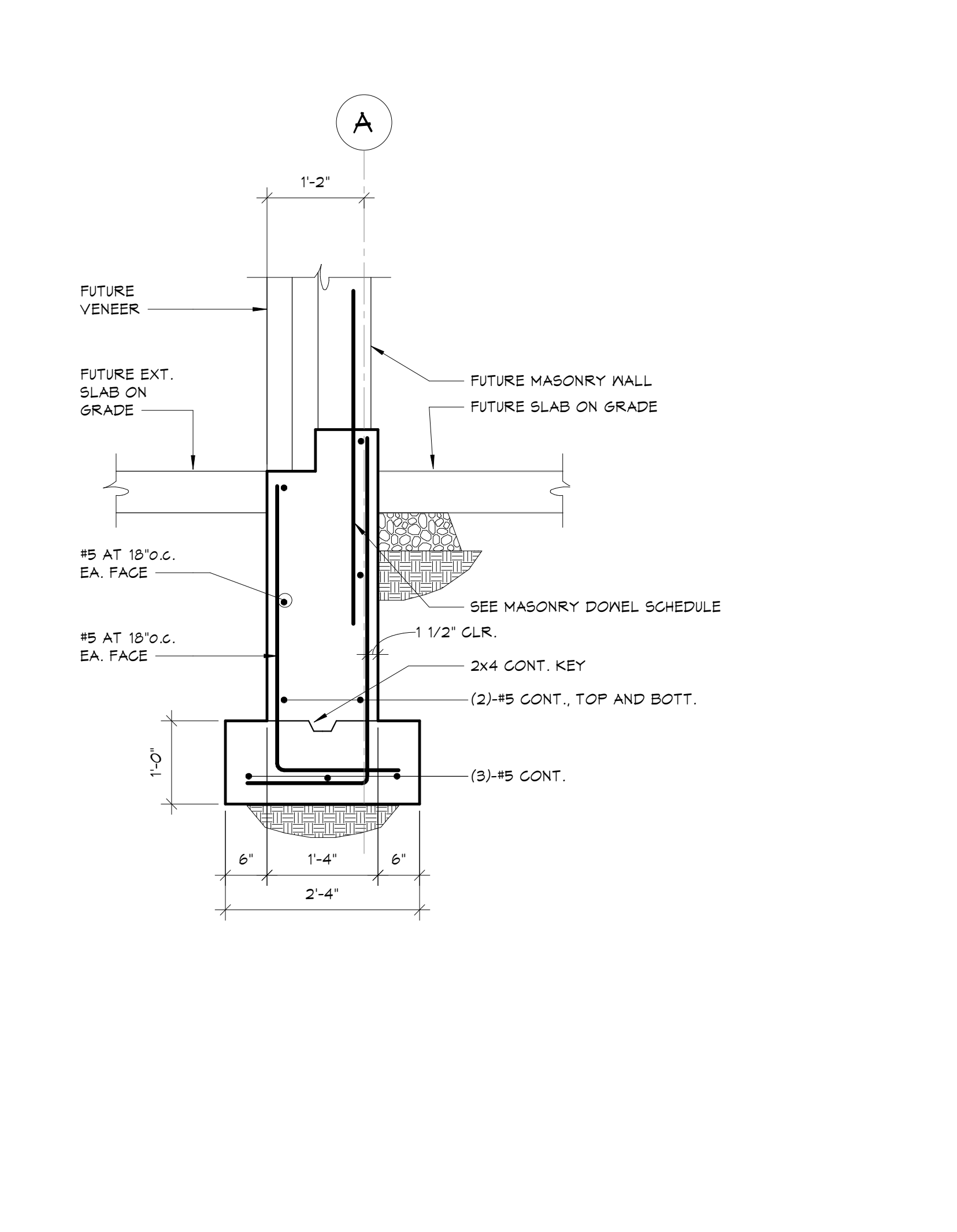
SECTION 6
3/4" = 1'-0"



SECTION 7
3/4" = 1'-0"



SECTION 8
3/4" = 1'-0"



SECTION 9
3/4" = 1'-0"

Key Plan

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No.	Date	Issue
5	07/12/2023	ISSUE FOR BID - PHASE 1
4	06/09/2023	ISSUE FOR PERMIT - PHASE 1
2	2023-03-31	PHASE 1 - 50% CDS

No.	Date	Issue

Sheet Title

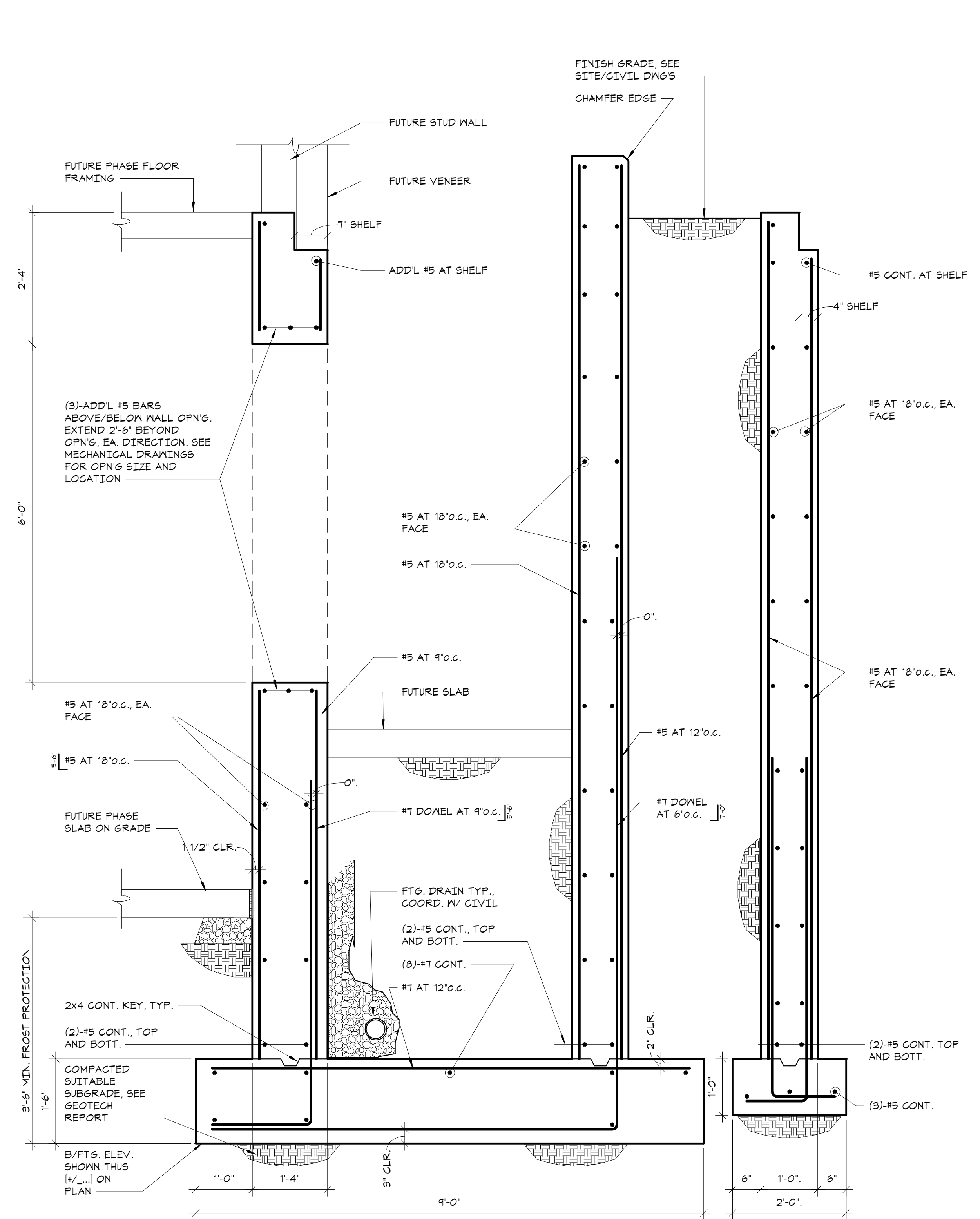
**FOUNDATION
SECTIONS**

Job No.	Date
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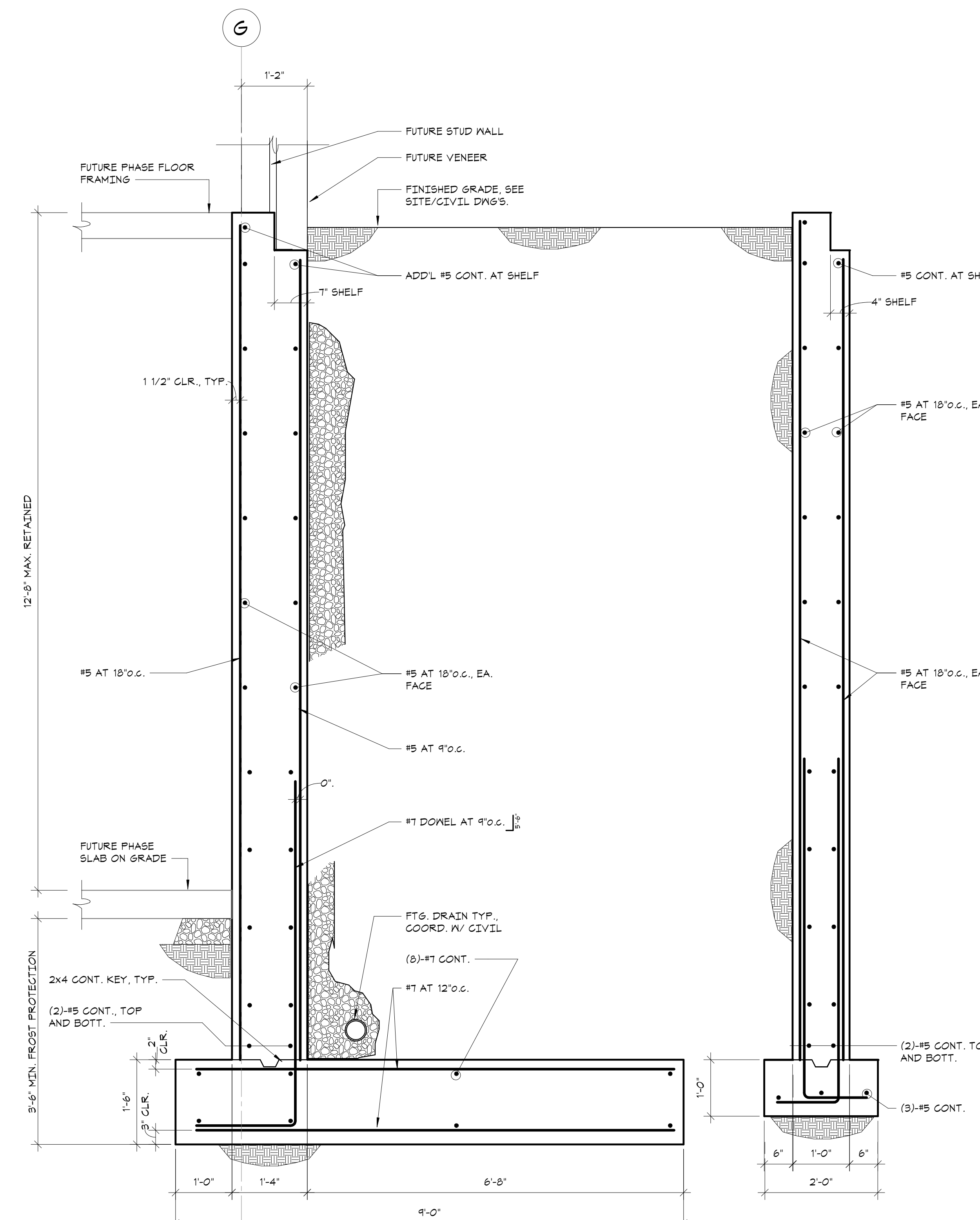
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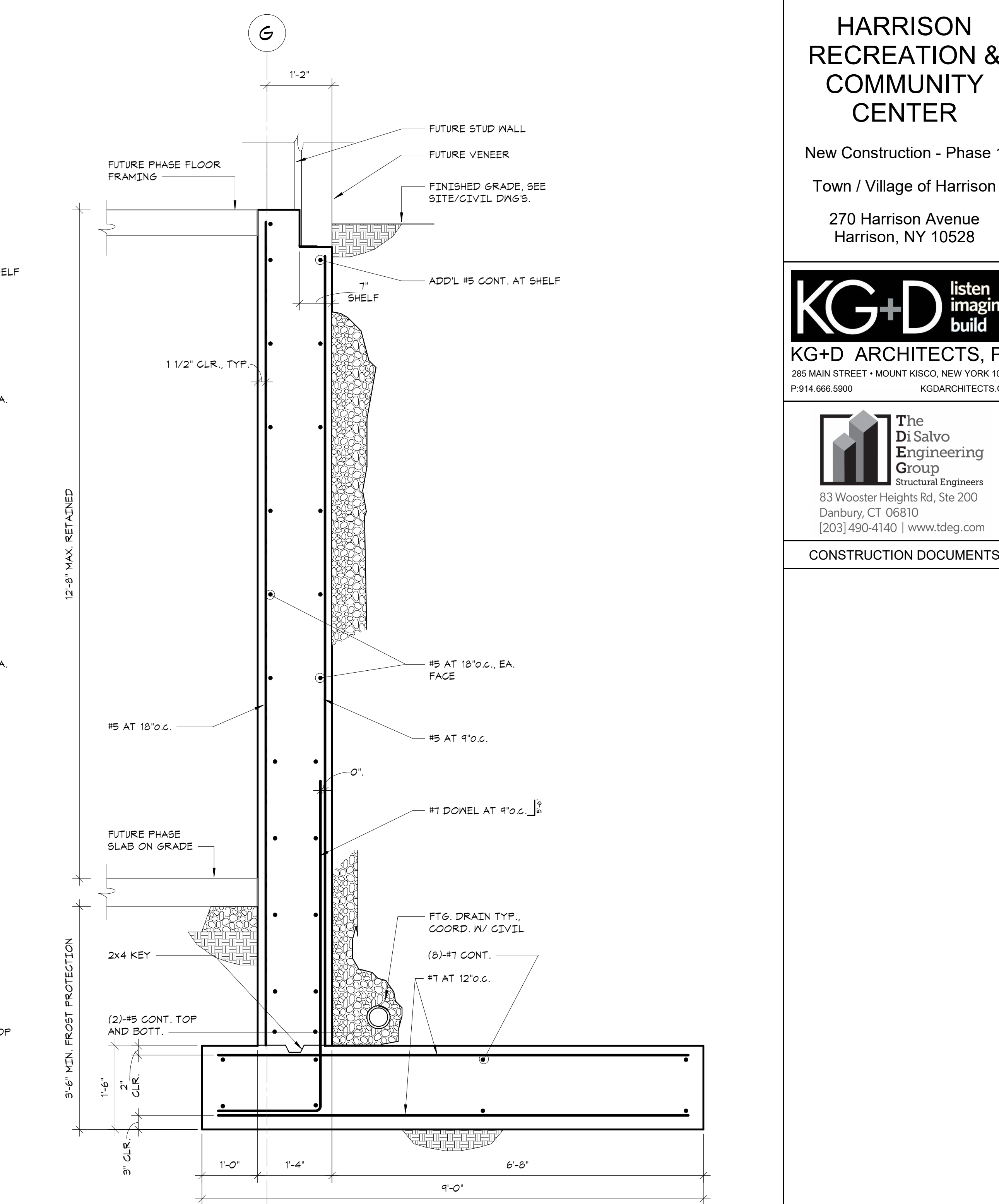
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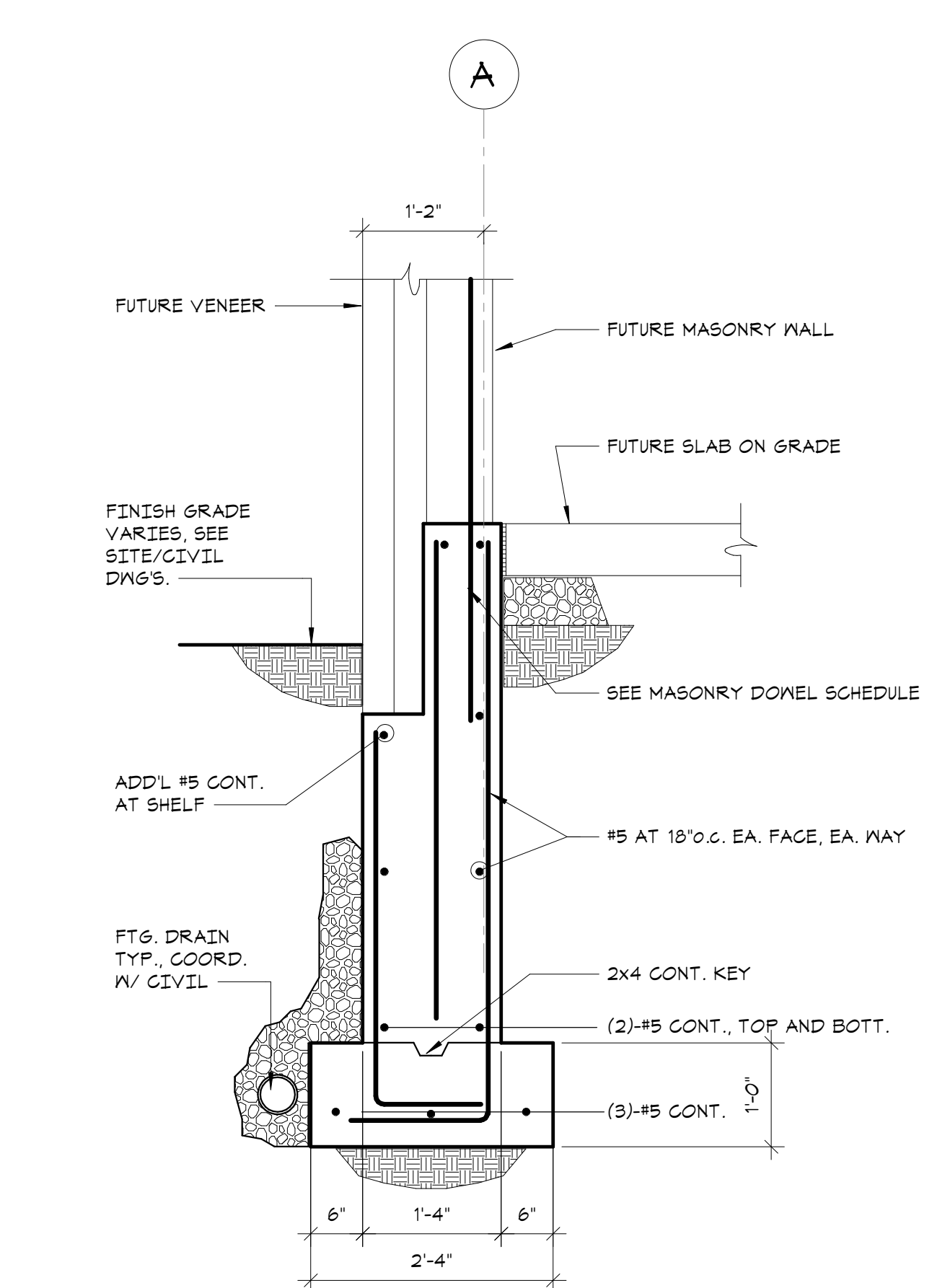
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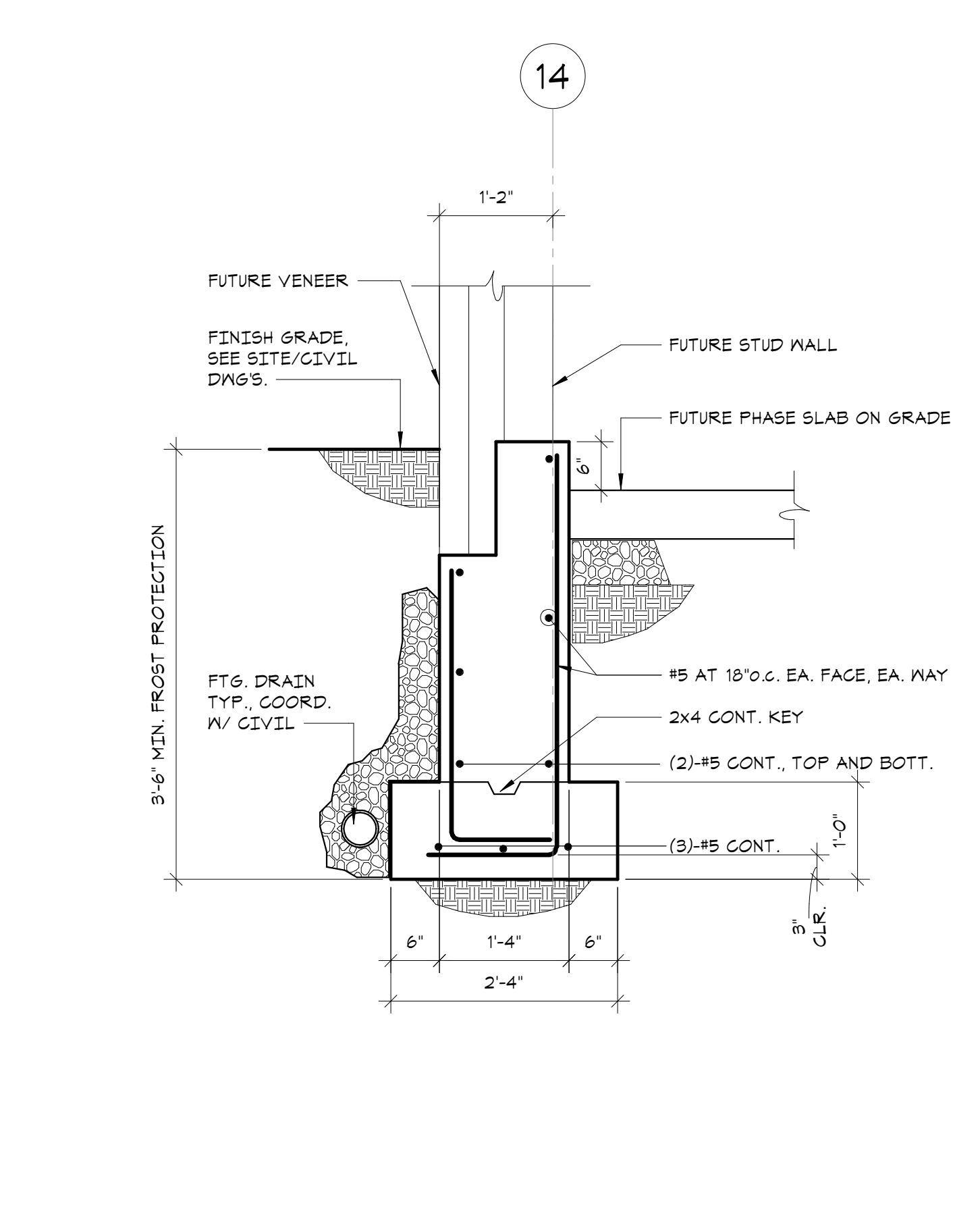
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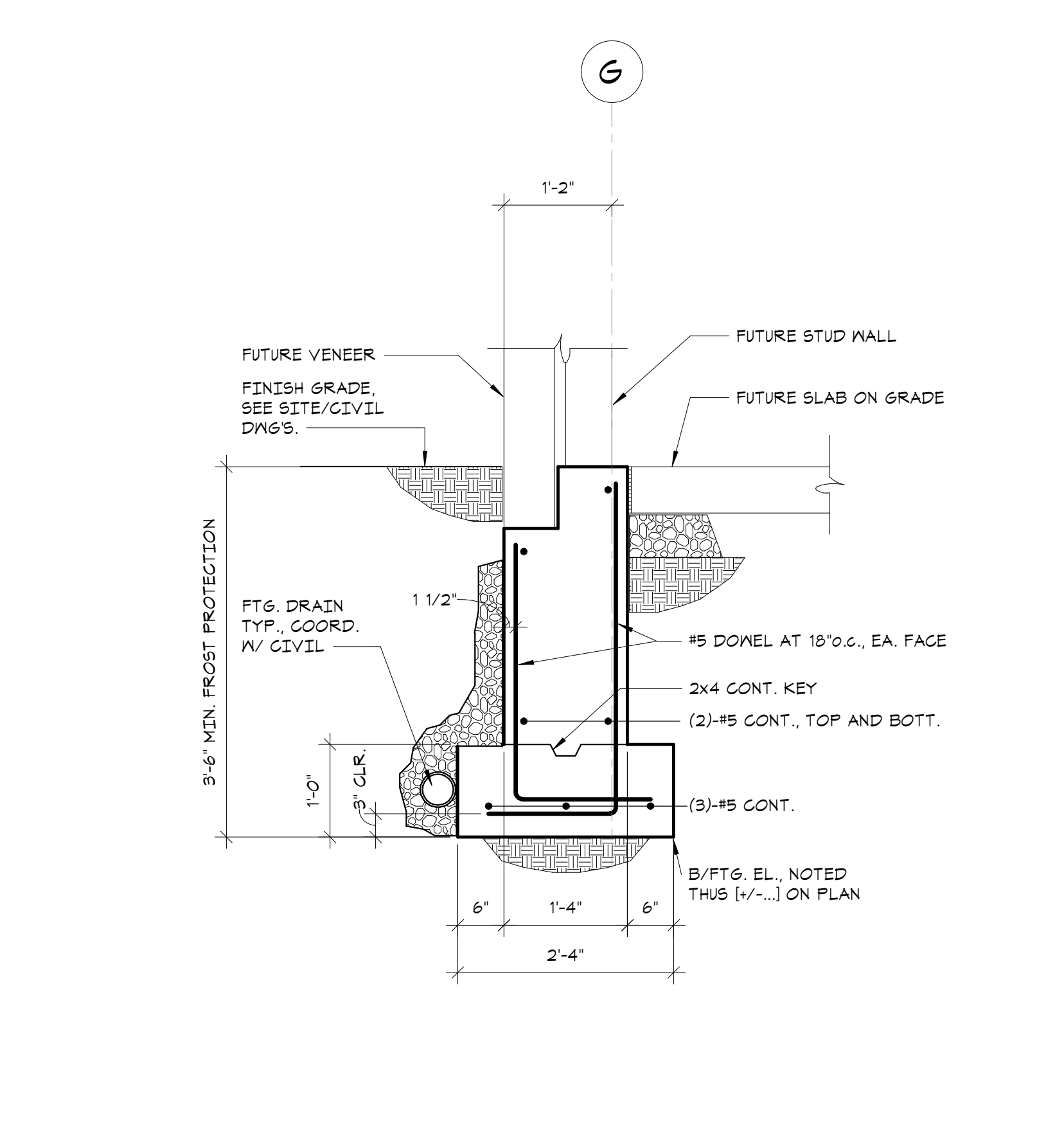
3 SECTION
3/4" = 1'-0"



4 SECTION
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"

Key Plan

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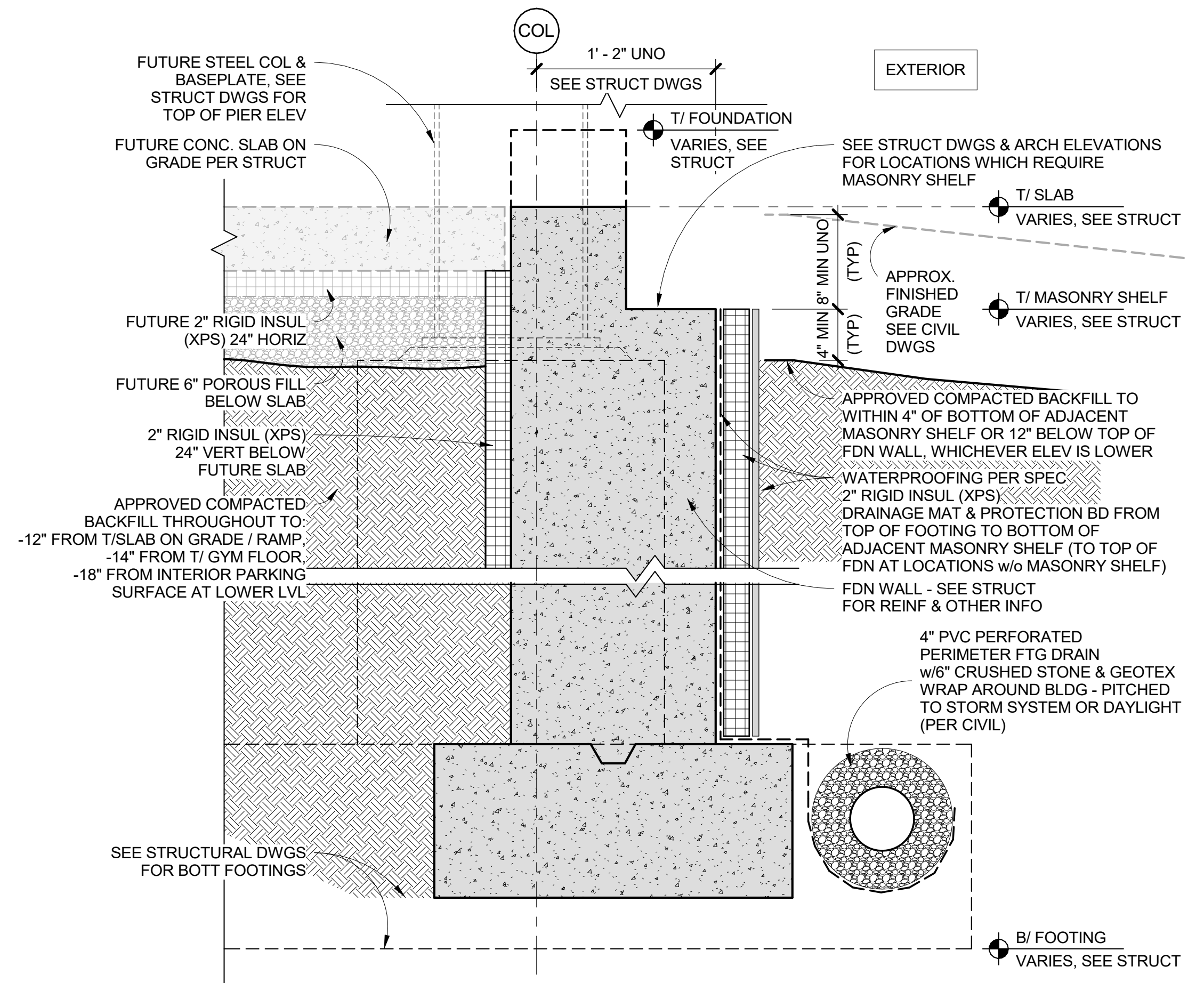
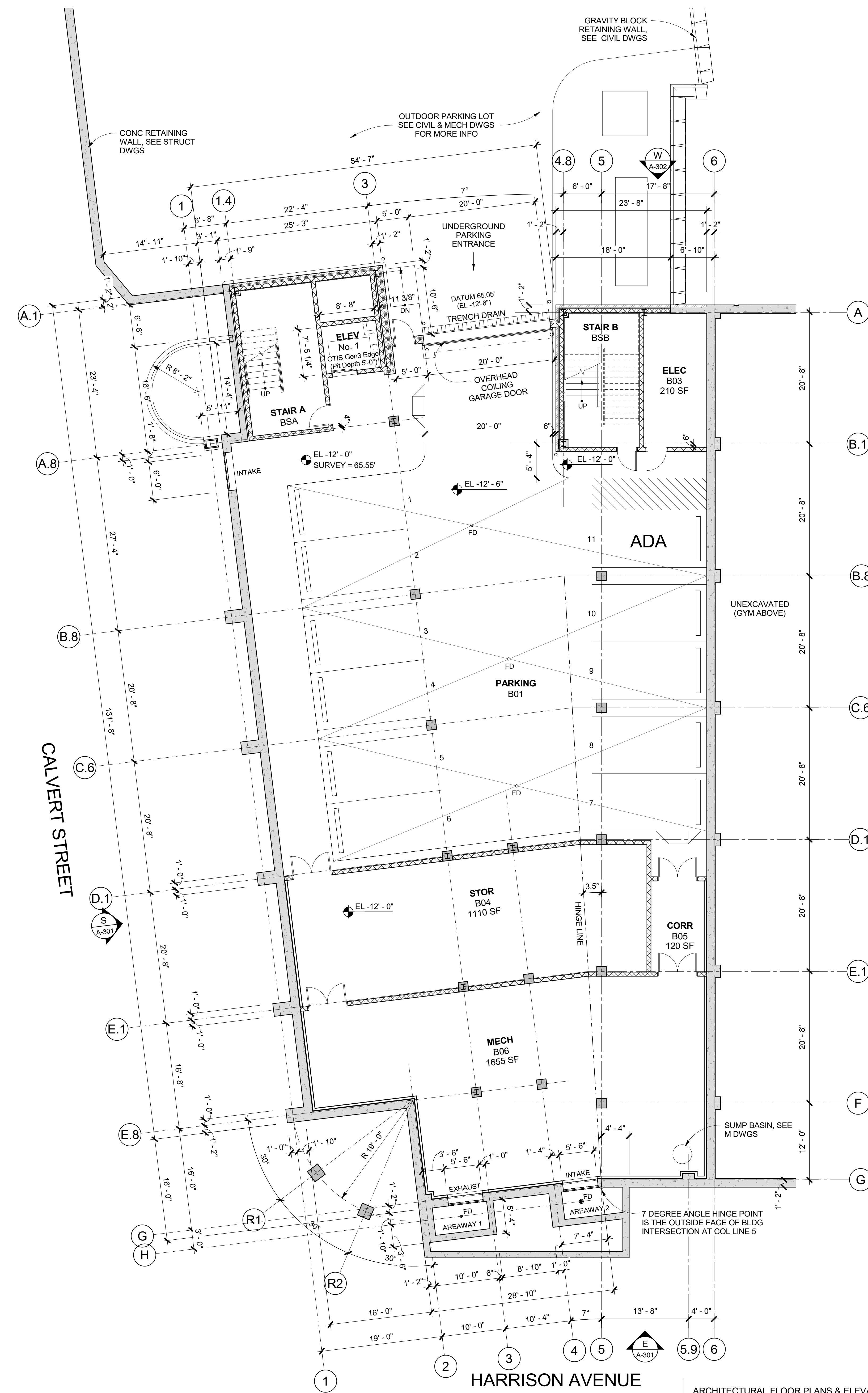
5	07/12/2023	ISSUE FOR BID - PHASE 1
4	06/09/2023	ISSUE FOR PERMIT - PHASE 1

No.	Date	Issue
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**FOUNDATION
SECTIONS**

Job No.	20029.00	Date	04/26/23
Scale	AS NOTED	Drawn / Checked	JM / CGB

Sheet Number
S-211



1 TYPICAL FOUNDATION SECTION DETAIL
1 1/2" = 1'-0"

L LOWER LEVEL & PARKING PLAN
1/8" = 1'-0"

ARCHITECTURAL FLOOR PLANS & ELEVATIONS
ARE INTENDED TO DEMONSTRATE DESIGN
INTENT OF SUBSEQUENT PHASES & ARE
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No.	Date	Issue
3	07/12/2023	ISSUE FOR BID - PHASE 1

Sheet Title

**LOWER LEVEL
PLAN &
FOUNDATION
DETAIL**

Job No.	2020-1005	Date	07/12/2023
Scale	AS NOTED	Drawn / Checked	...
Sheet Number	A-200		

**HARRISON
RECREATION &
COMMUNITY
CENTER**

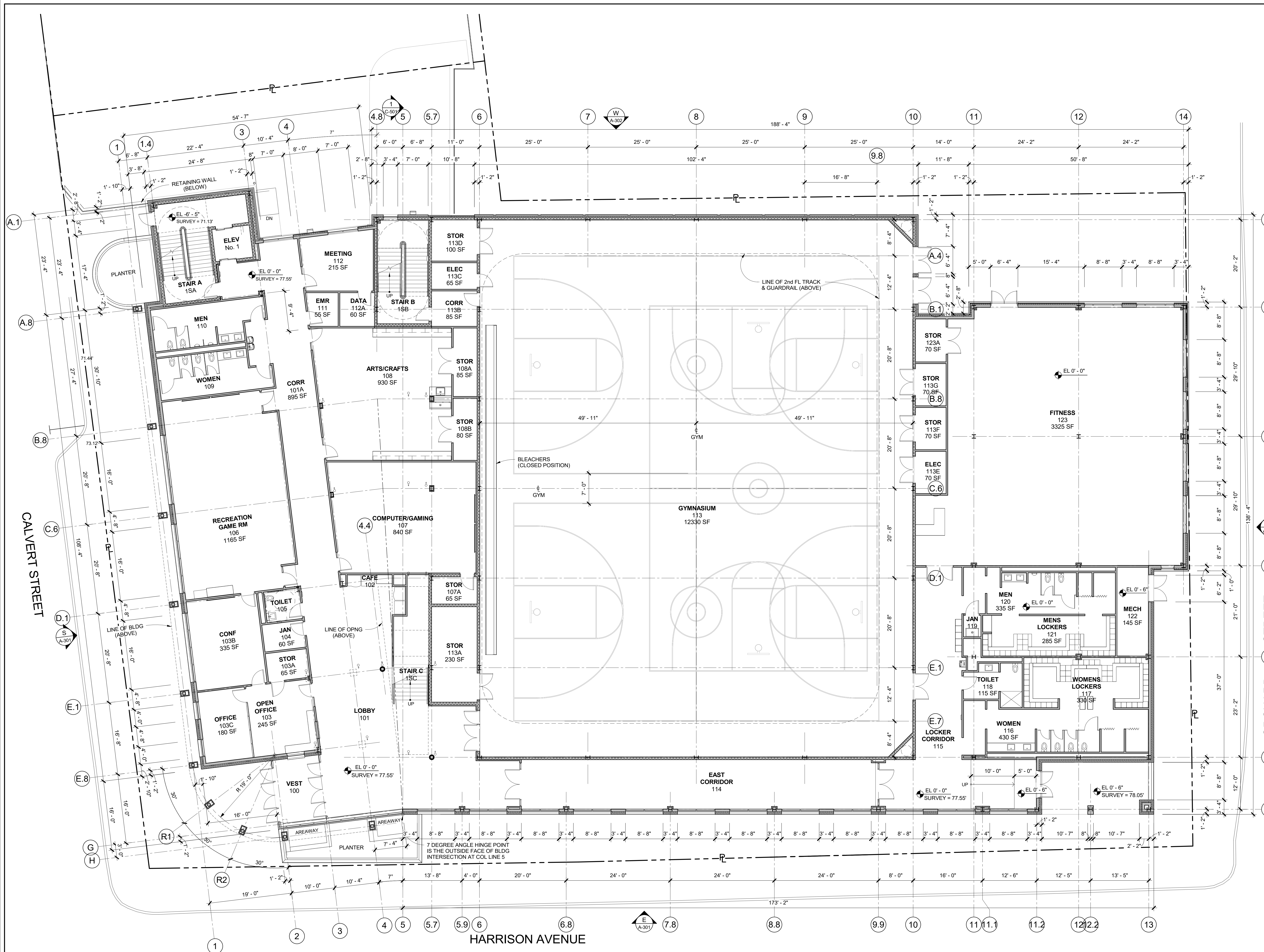
New Construction - Phase 1

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



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3 07/12/2023 ISSUE FOR BID - PHASE 1

No. Date Issue

Sheet Title

**1st FLOOR PLAN -
For Reference Only**

Job No. 2020-1005 Date 07/12/2023

Scale AS NOTED Drawn / Checked

Sheet Number

A-201

1st FLOOR PLAN
1/8" = 1'-0"

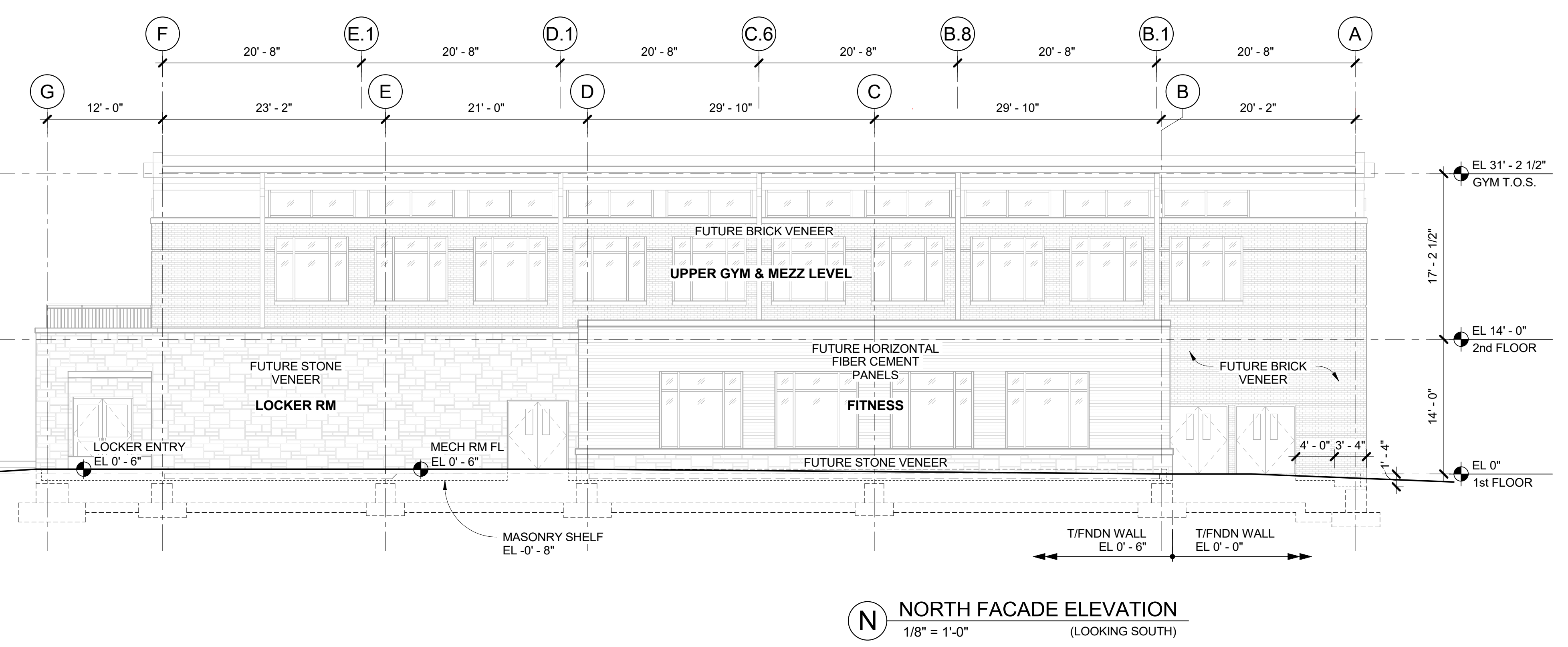
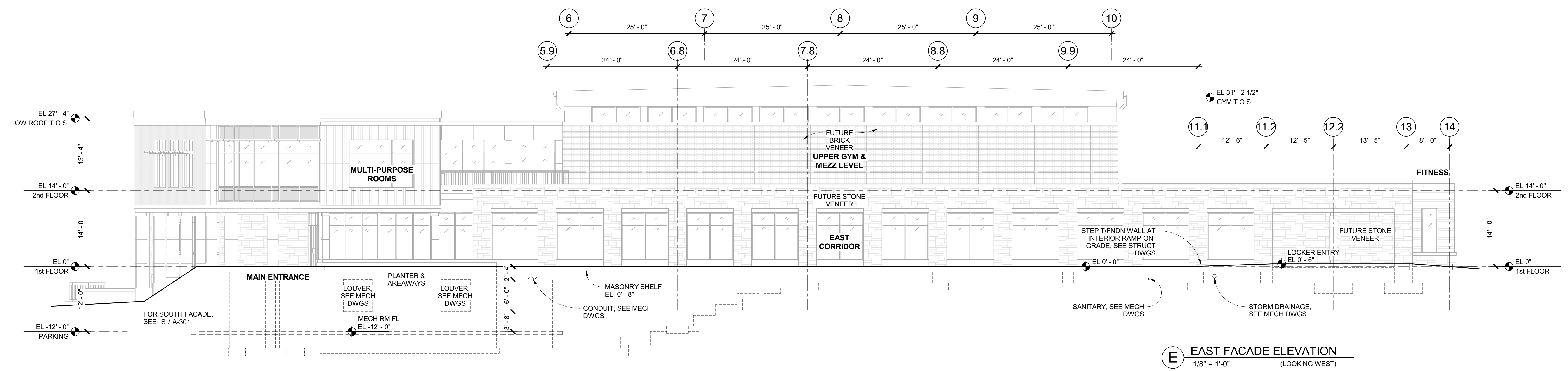
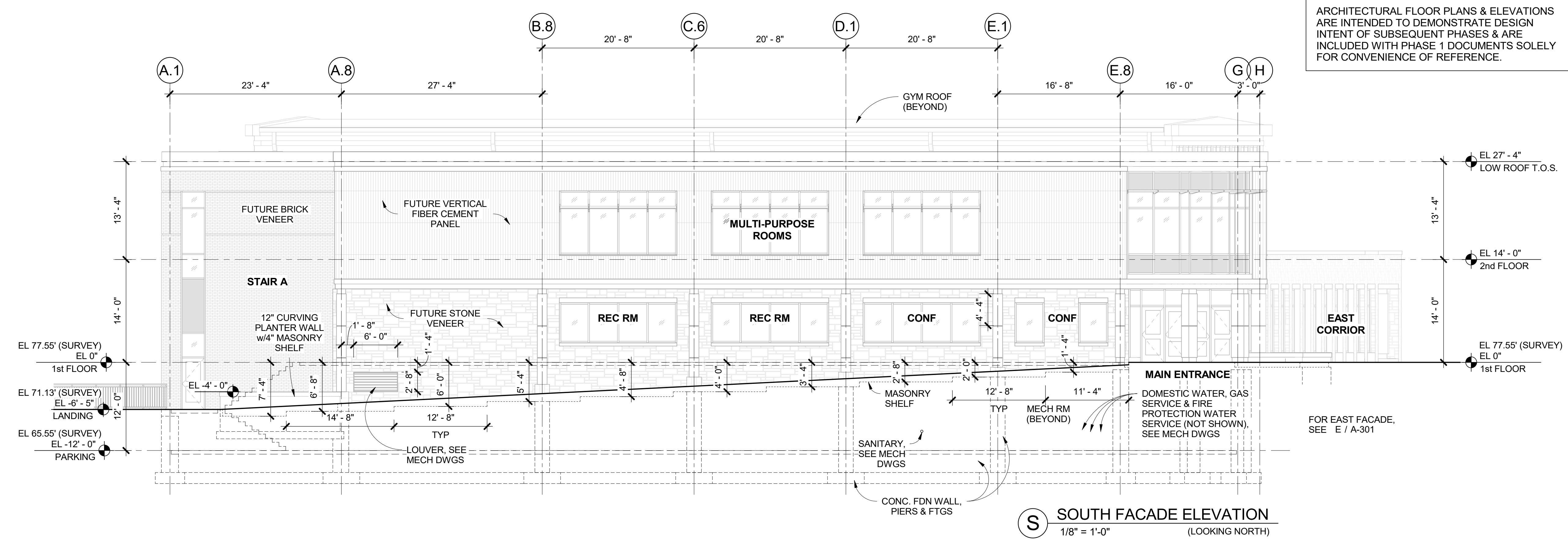
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3	07/12/2023	ISSUE FOR BID - PHASE 1

EXTERIOR ELEVATIONS - For Reference Only

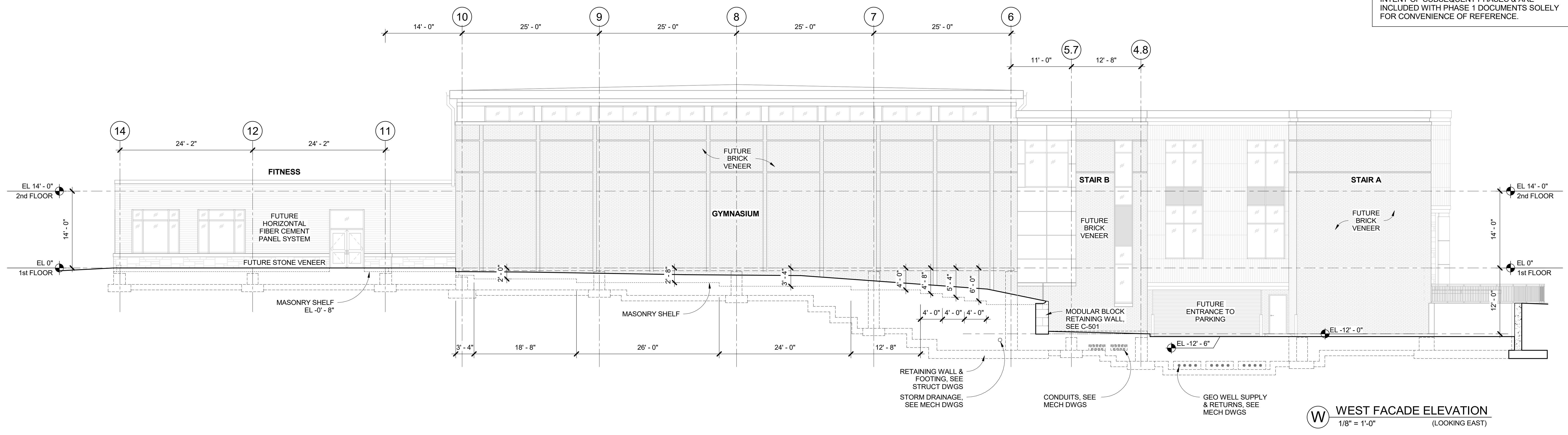
Job No. 2020-1005 Date 07/12/2023
 Scale AS NOTED Drawn / Checked - - -
 Sheet Number **A-301**

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No.	Date	Issue
3	07/12/2023	ISSUE FOR BID - PHASE 1

Sheet Title

EXTERIOR ELEVATIONS - For Reference Only

Job No.	2020-1005	Date	07/12/2023
Scale	AS NOTED	Drawn / Checked	- / -
Sheet Number	A-302		

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
—	AFF	ABOVE FINISHED FLOOR
—	NEW	NEW WORK
- - - - -	DEM.	EXISTING TO BE REMOVED
●	-	BALL VALVE
—	-	CONDUIT AND WIRING
- - - - -	-	CONDUIT & WIRING TO BE REMOVED UON
—UG—	-	BURIED CONDUIT
□	-	ELECTRICAL EQUIPMENT AS INDICATED
—OH—	-	OVERHEAD CONDUCTORS
—UG-E—	-	UNDERGROUND ELECTRICAL
—UG-T—	-	UNDERGROUND TELCO
-	CW	COLD WATER
C	-	ELBOW DOWN
O	-	ELBOW UP
⊥	-	GATE VALVE
⊥	-	GLOBE VALVE
-	NEW	NEW WORK
⊥	-	OS&Y GATE VALVE
⊥	-	PLUG VALVE
.	-	PIPE CAP
-	S	SANITARY
-	SD	STORM DRAINAGE
⊕	-	TEE DOWN
⊕	-	TEE UP
-	TYP.	TYPICAL
-	V	VENT
-	W	WASTE LINE

NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

TRENCHING NOTES

- CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES THAT ARE NOT PART OF N.Y. STATE "CODE 753" PRIOR TO DIGGING.
- ALL EXCAVATING IN THE AREA OF THE EXISTING UNDERGROUND EQUIPMENT, PIPES AND CONDUITS SHALL BE PERFORMED BY HAND.
- ANY AREA/PLANTS OR LANDSCAPING OR PAVEMENTS DISTURBED DURING THE EXCAVATION SHALL BE RESTORED OR REPLACED TO MATCH EXISTING CONDITIONS BY THE CONTRACTOR AT NO COST TO THE OWNER.
- ANY EXISTING BURIED CONDUITS, DRAINAGE, SPRINKLER PIPING, ETC. THAT IS DISTURBED AND/OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY OR MAY NOT BE SHOWN AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL 1-800-962-7962.

DEFINITION OF TERMS

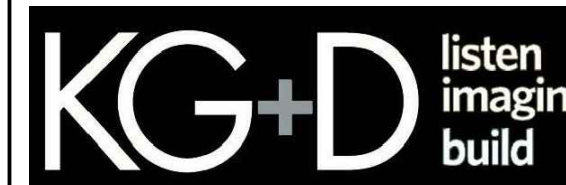
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT "THE TOWN OF HARRISON, NY" IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ARCHITECT" IS USED, IT MUST BE UNDERSTOOD THAT "KG&D ARCHITECTS, P.C." IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "ELECTRICAL UTILITY" OR "POWER COMPANY" ARE USED, IT MUST BE UNDERSTOOD THAT "CON EDISON" IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "TELEPHONE UTILITY" OR "TELCO" ARE USED, IT MUST BE UNDERSTOOD THAT "VERIZON" IS INTENDED.
- "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.
- "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.
- "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS.
- "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.
- THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:
 - "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE.
 - "MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE.
 - "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY NOT COMMENCE.
 - "REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY NOT COMMENCE.

GENERAL NOTES

- THE CONTRACT DRAWINGS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS OF THE ELECTRICAL, FIRE PROTECTION, MECHANICAL AND PLUMBING SYSTEMS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER. EQUIPMENT AND PIPING ARRANGEMENTS SHALL PROVIDE ADEQUATE AND ACCEPTABLE CLEARANCES FOR ENTRY, SERVICING, AND MAINTENANCE. ANY CHANGES TO PIPING AND EQUIPMENT LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST.
- THE WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE PREVAILING NEW YORK STATE PLUMBING, MECHANICAL, ELECTRICAL, AND BUILDING CODES; IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- CONNECTIONS TO EXISTING UTILITIES AND SERVICES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, INVERT ELEVATIONS, AND SIZES OF EXISTING PLUMBING AND ELECTRICAL SERVICES IN FIELD, AND SHALL CONNECT NEW PLUMBING AND ELECTRICAL SERVICES AS INDICATED ON DRAWINGS.
- PRIOR TO FABRICATION, THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB SITE, AND COORDINATE THIS WORK WITH THE WORK OF ALL OTHER TRADES
- PROVIDE ALL PLUMBING PIPING, VALVES AND ACCESSORY ITEMS AS SPECIFIED AND AS REQUIRED FOR A COMPLETE INSTALLATION.
- PITCH ALL WASTE, SANITARY, AND STORM DRAIN PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN 1/8" PER FOOT FOR PIPING ≥ 3" AND 1/4" PER FOOT FOR PIPING ≤ 2½".
- PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
- ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
- PROVIDE TRAP SEAL PRIMERS FOR FLOOR DRAINS AS REQUIRED. INSTALL THE PRIMER VALVE IN THE COLD WATER SERVICE, WITH THE TRAP CONNECTION PIPED TO THE FLOOR DRAIN TRAP. LOCATE THE VALVE IN AN ACCESSIBLE LOCATION.
- THE CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF SCOPE OF WORK RELATED TO THIS PROJECT.
- SEE THE ARCHITECTURAL DRAWINGS FOR EXACT PHASING AND TIME SCHEDULE FOR CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE BEGINNING OF WORK, AND SHALL COORDINATE ALL WORK WITH OTHER TRADES.
- THE CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, INDICATING PLUMBING, SPRINKLER PIPING, STRUCTURAL, CONDUITS, ETC.
- COORDINATE PIPING PENETRATIONS THRU FLOORS/SLABS, WALLS, AND ROOF WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- CONTRACTOR SHALL CONDUCT HYDRANT FLOW TEST TO ESTABLISH EXACT FLOW AND PRESSURE AVAILABLE ON THE SITE FOR PREPARATION OF HYDRAULIC CALCULATIONS. HYDRANT FLOW TEST SHALL BE CONDUCTED ON TWO HYDRANTS ON THE SITE WATER MAIN SERVING THE BUILDING FLOWING A MINIMUM OF 500 GPM.
- PROVIDE TWO 2-1/2 GALLON PRESSURIZED WATER AND ONE 10 LB ABC DRY CHEMICAL EXTINGUISHERS FOR EMERGENCY USE DURING CONSTRUCTION.

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olace.com

CONSTRUCTION DOCUMENTS

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No. 3 Date 07/12/2023 Issue FOR BID - PHASE 1

SYMBOLS, ABBREVIATIONS & NOTES

Job No. NKGD0207.00 Date 06/29/2023
Scale AS NOTED Drawn / Checked HM / RC VB / ML / DS

Sheet Number **M-001**

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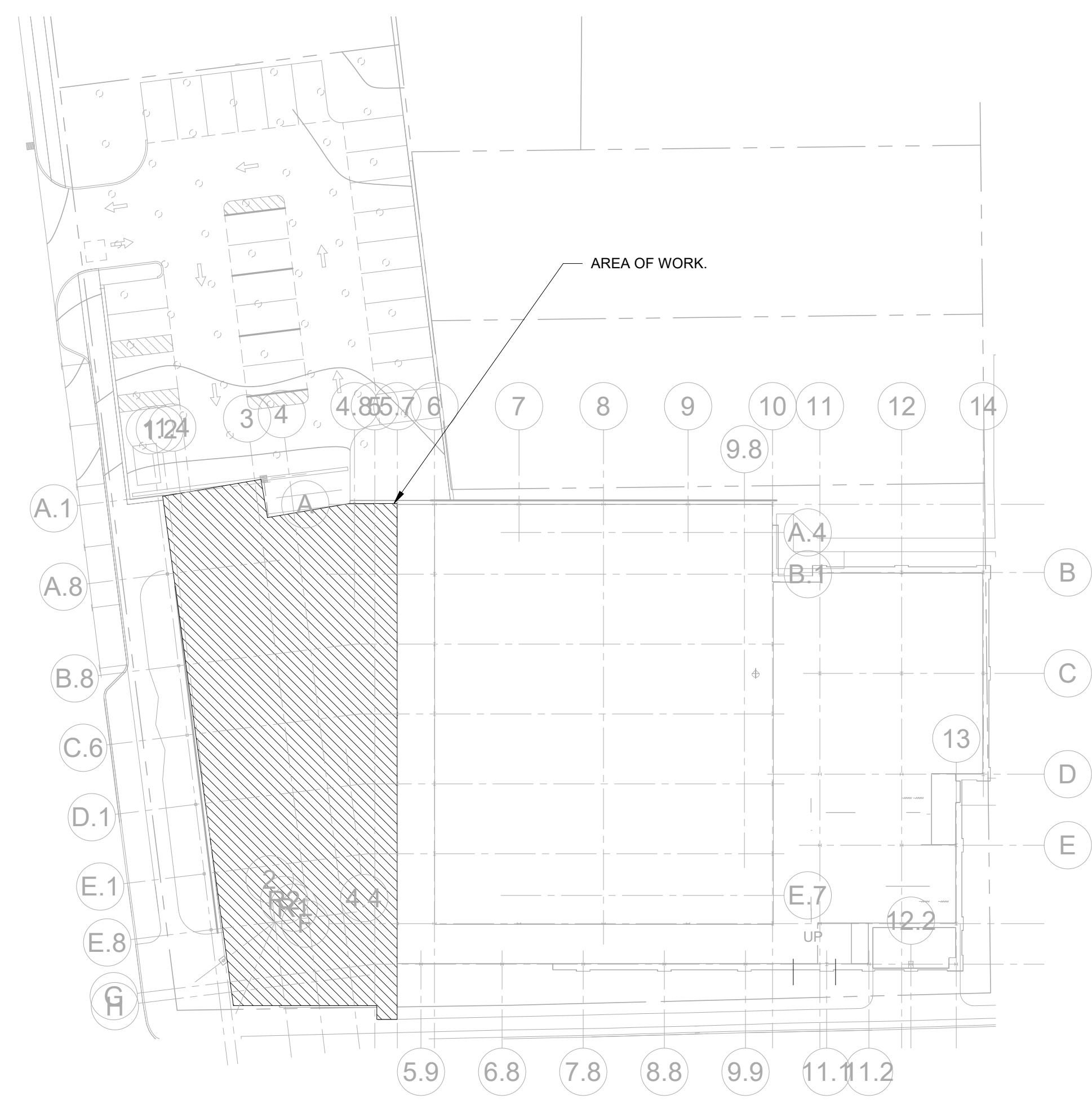
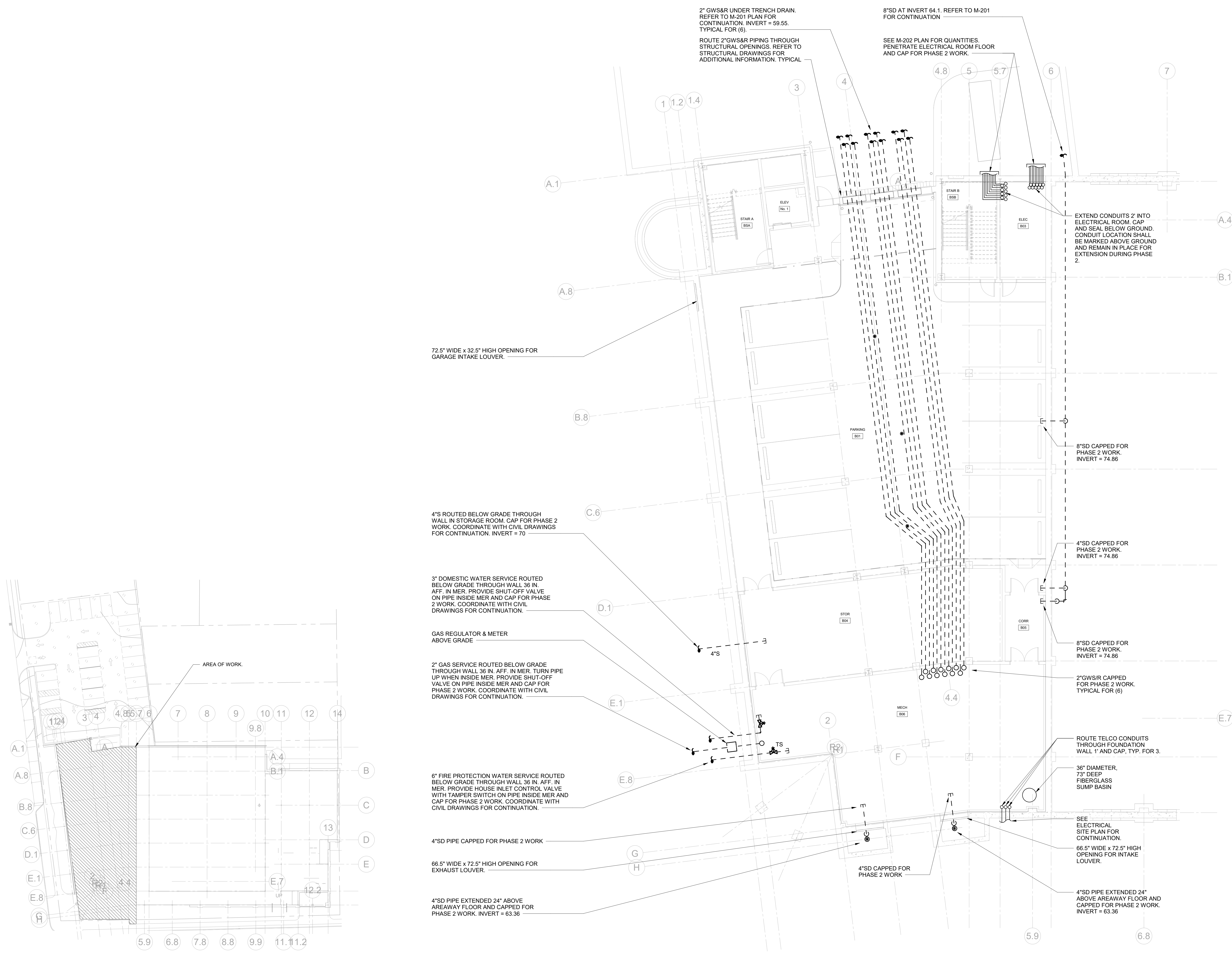
3 07/12/2023 ISSUE FOR BID - PHASE 1
No. Date Issue

Sheet Title

PARKING FLOOR PLAN PHASE 1

Job No. NKG0207.00 Date 06/29/2023
Scale AS NOTED Drawn / Checked H.M. / R.G.
V.B. / M.L. / D.S.

Sheet Number
M-101



KEY PLAN
SCALE: 1/32" = 1'-0"
NORTH

PARKING FLOOR PLAN PHASE 1
SCALE: 1/8" = 1'-0"
NORTH

NOTES:
1.) ALL ELECTRICAL CONDUITS ARE ROUTED UNDERGROUND. UON.
2.) ALL ELECTRICAL CONDUITS SHALL BE PROVIDED WITH DRAGLINES.

**HARRISON
RECREATION &
COMMUNITY
CENTER**

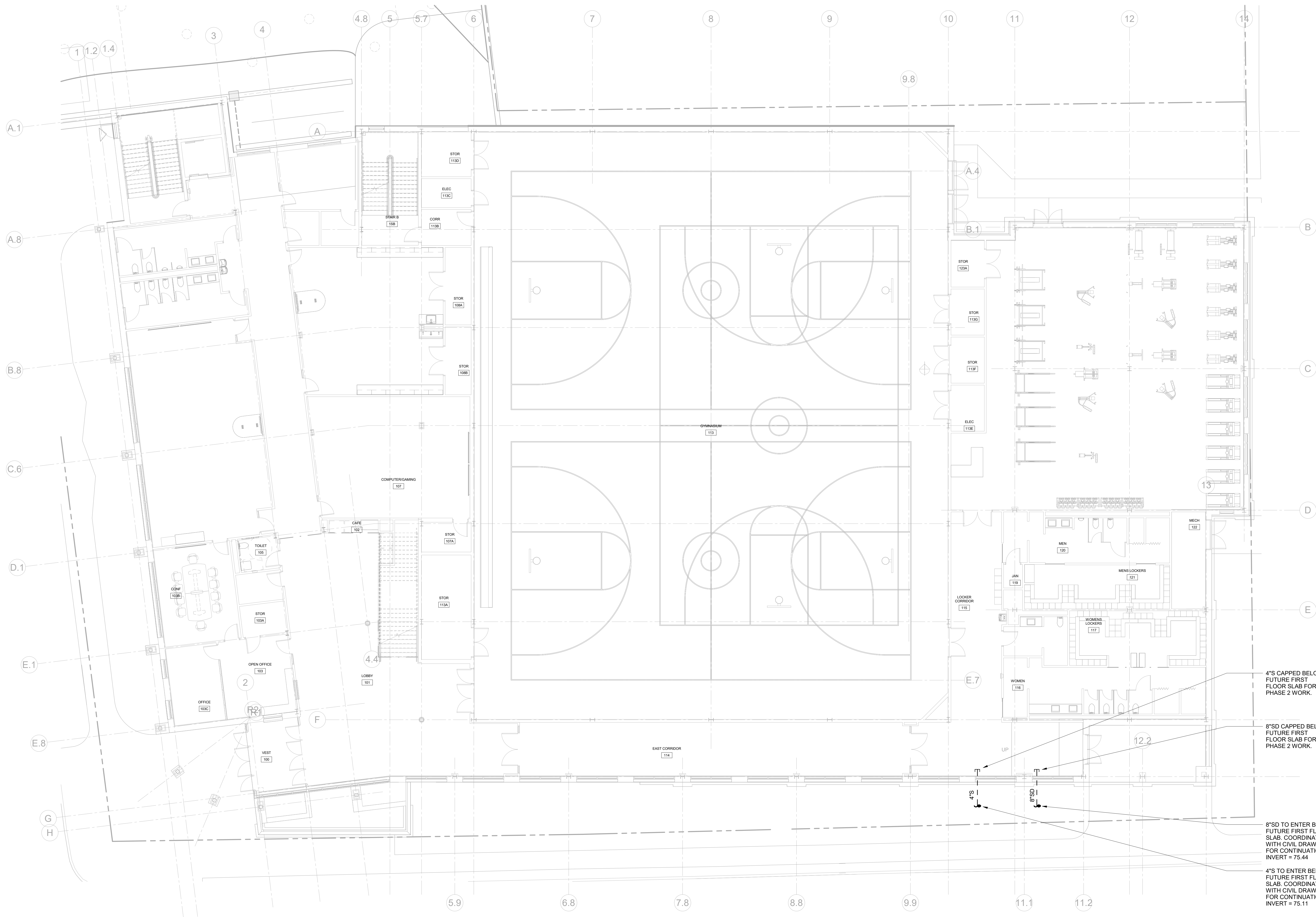
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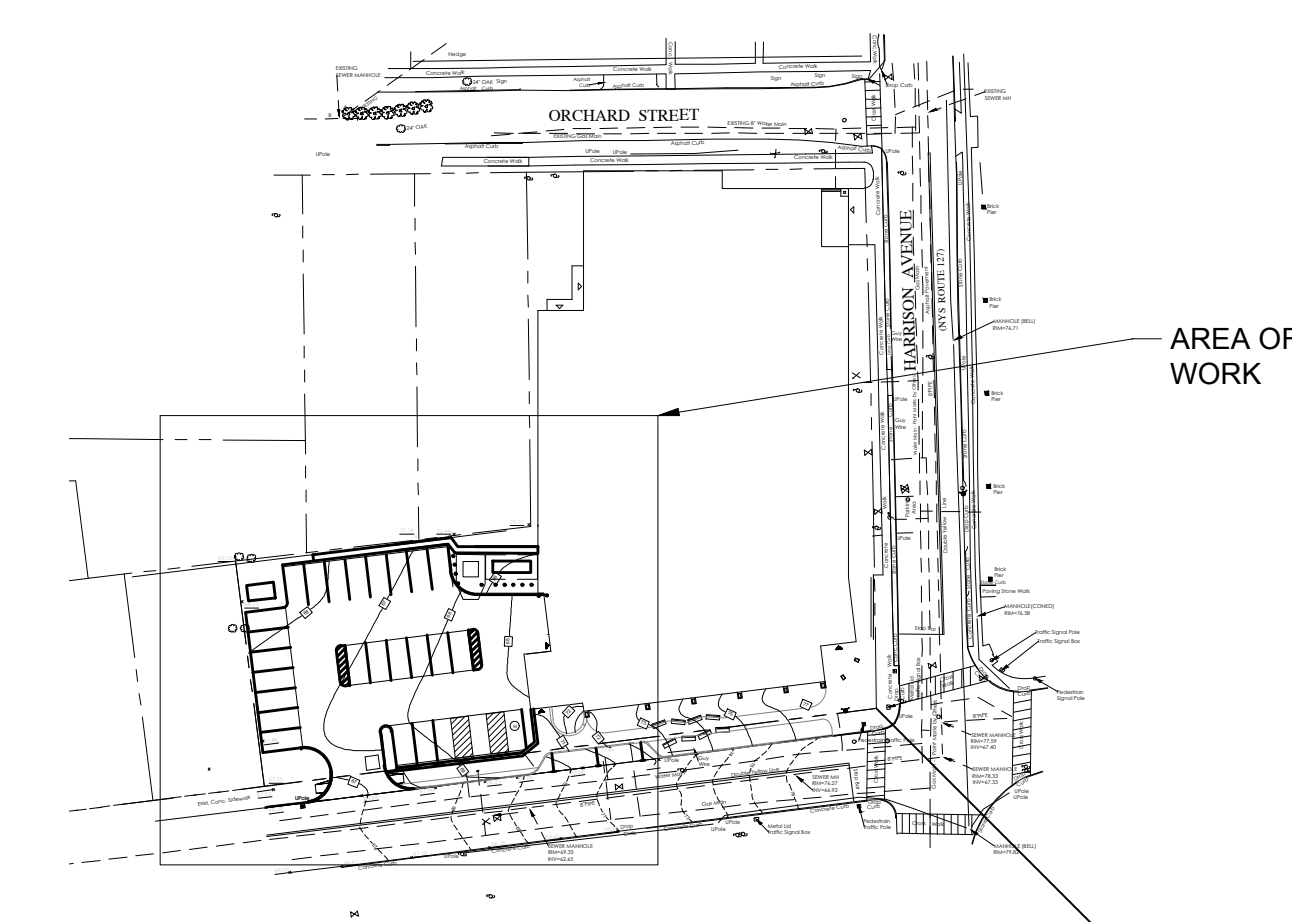
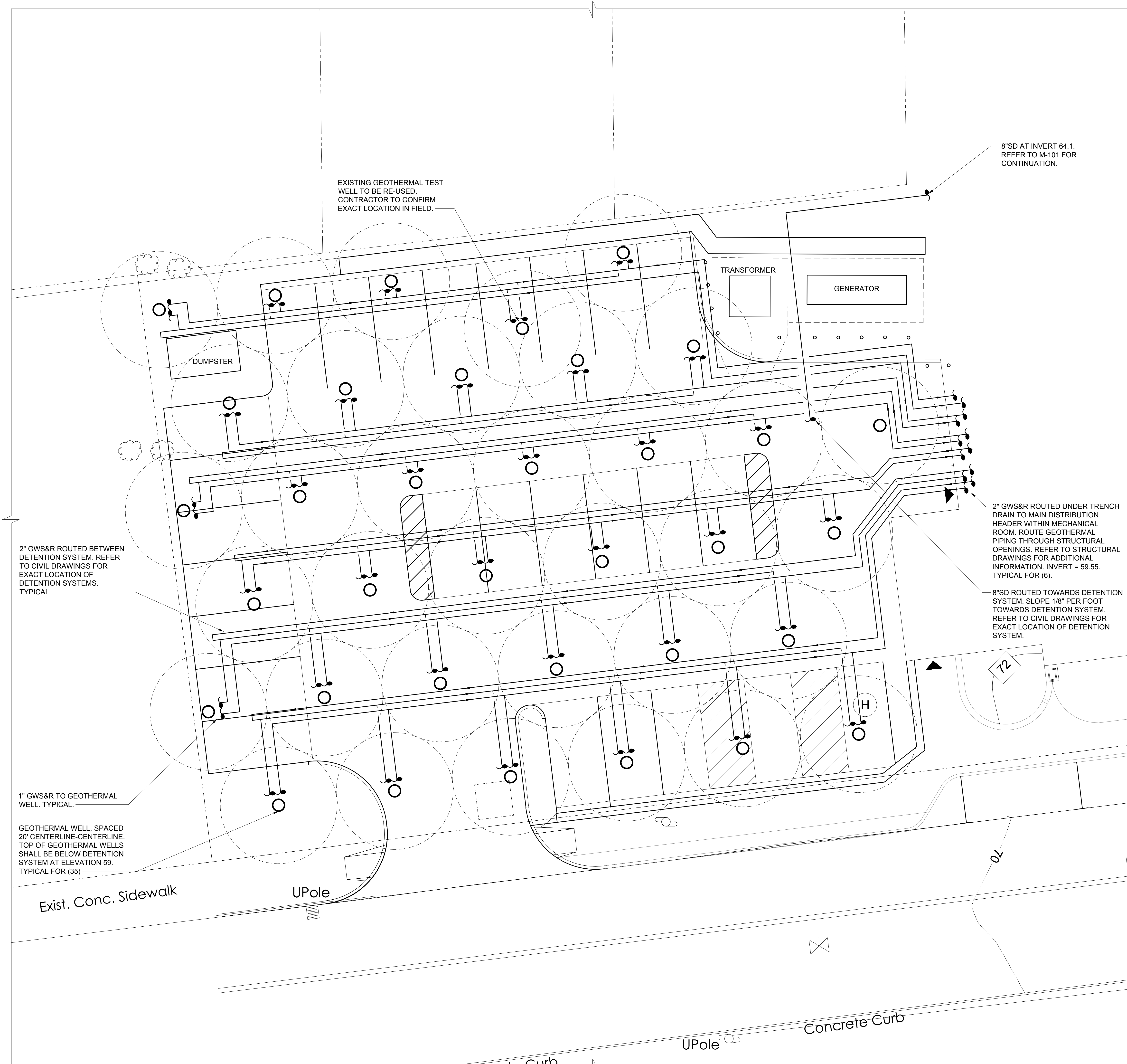
**FIRST FLOOR
PLAN PHASE 1**

Job No.	Date
NKGD0207.00	06/29/2023
Scale	Drawn / Checked
AS NOTED	HJM / RJS
Sheet Number	VB/ML/TDS

M-102

1 FIRST FLOOR PLAN PHASE 1
SCALE: 1/8" = 1'-0"

- NOTES:
1.) ALL ELECTRICAL CONDUITS ARE ROUTED UNDERGROUND, UON.
2.) ALL ELECTRICAL CONDUITS SHALL BE PROVIDED WITH DRAGLINES.



2 MECHANICAL SITE PLAN
SCALE: 1/8" = 1'-0"

NOTES:
1.) ALL GEOTHERMAL PIPING SHALL BE ROUTED BETWEEN DETENTION SYSTEM.
2.) ALL GEOTHERMAL WELLS SHALL BE UNDERNEATH DETENTION SYSTEM. TOP OF ALL GEOTHERMAL WELLS SHALL BE AT ELEVATION 59.

1 KEY PLAN
SCALE: NONE

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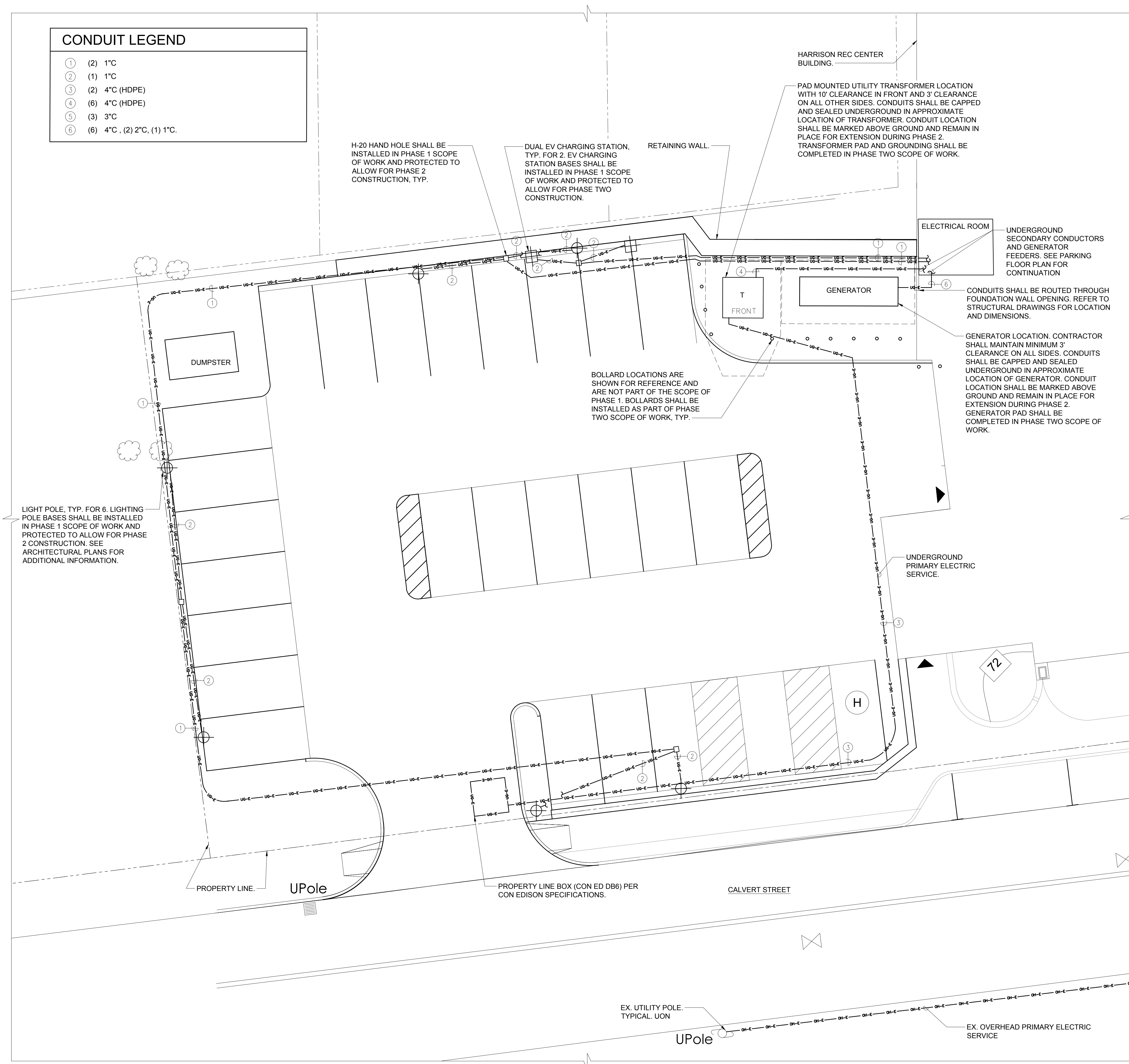
**MECHANICAL
SITE PLAN**

Job No.	Date
NKGD0207.00	06/29/2023
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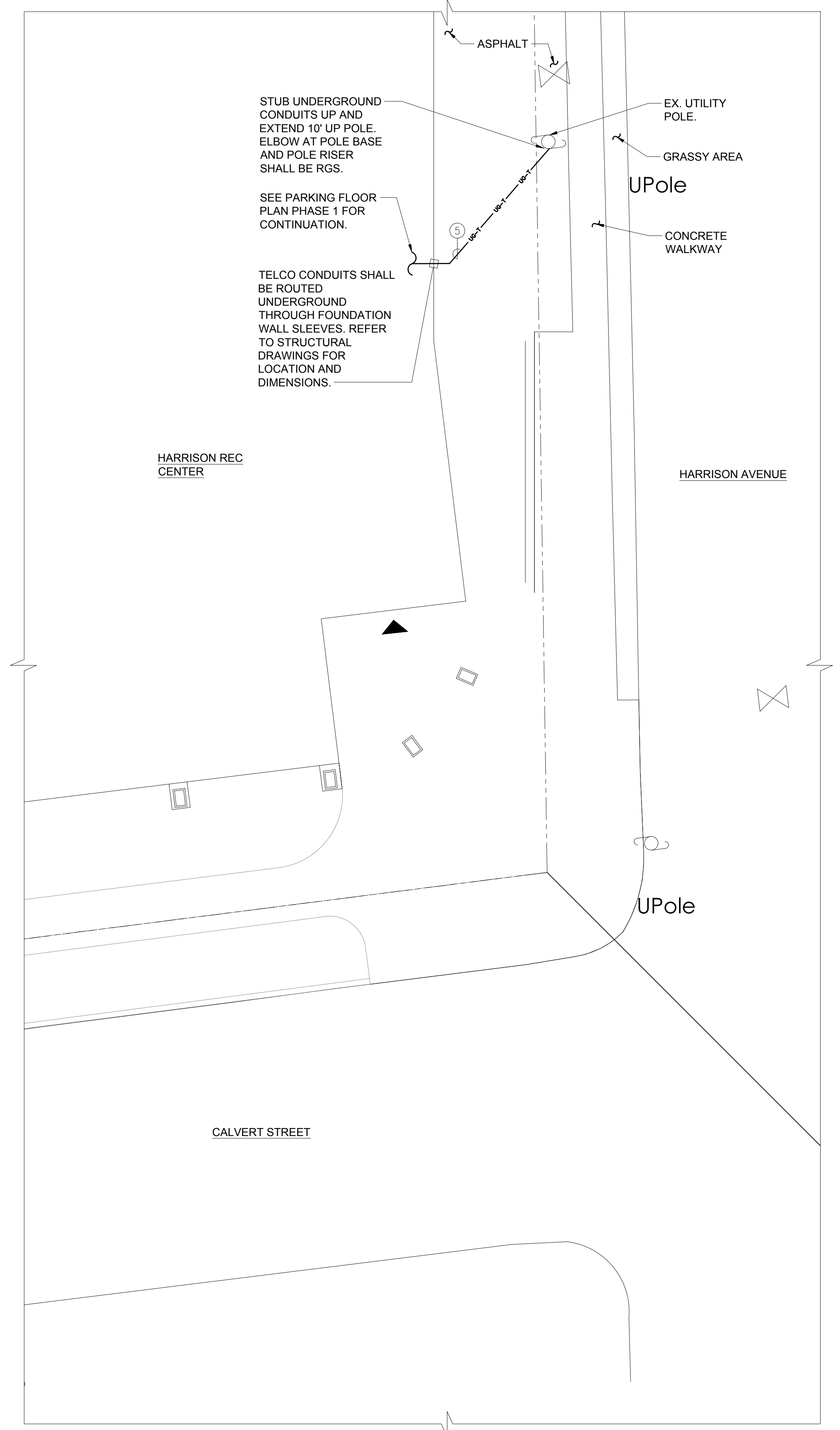
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CONDUIT LEGEND	
①	(2) 1" C
②	(1) 1" C
③	(2) 4" C (HDPE)
④	(6) 4" C (HDPE)
⑤	(3) 3" C
⑥	(6) 4" C, (2) 2" C, (1) 1" C.

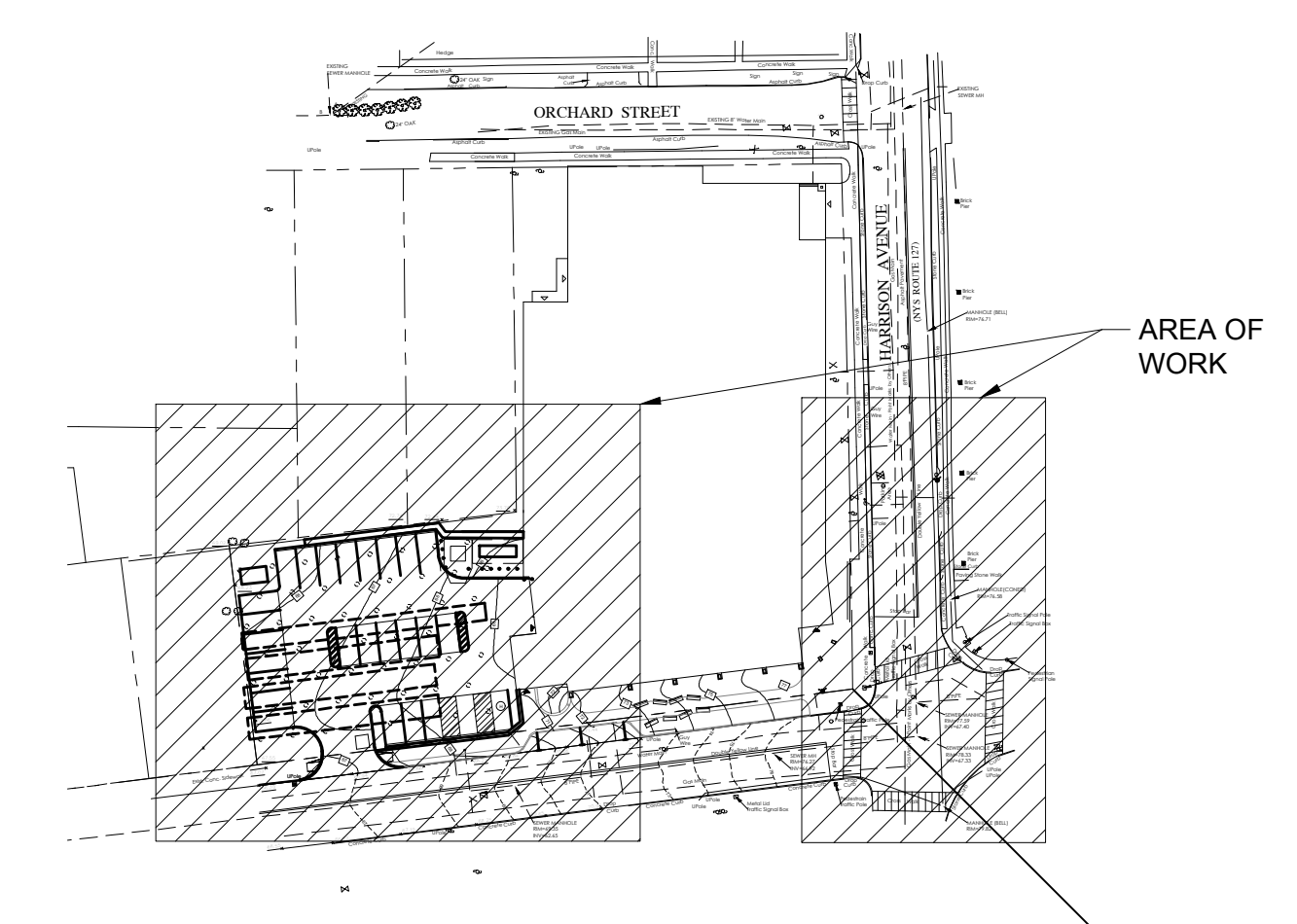


3 ELECTRICAL SITE PLAN
SCALE: 1/8" = 1'-0"

- NOTES:
- 1.) ALL ELECTRICAL CONDUITS ARE ROUTED UNDERGROUND, UON.
 - 2.) ALL ELECTRICAL CONDUITS SHALL BE PROVIDED WITH DRAGLINES.
 - 3.) ALL CONDUITS SHALL BE SCHEDULE 40 PVC, UON.



2 ELECTRICAL SITE PLAN
SCALE: 1/8" = 1'-0"



1 KEY PLAN
SCALE: NONE

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New Construction - Phase 1
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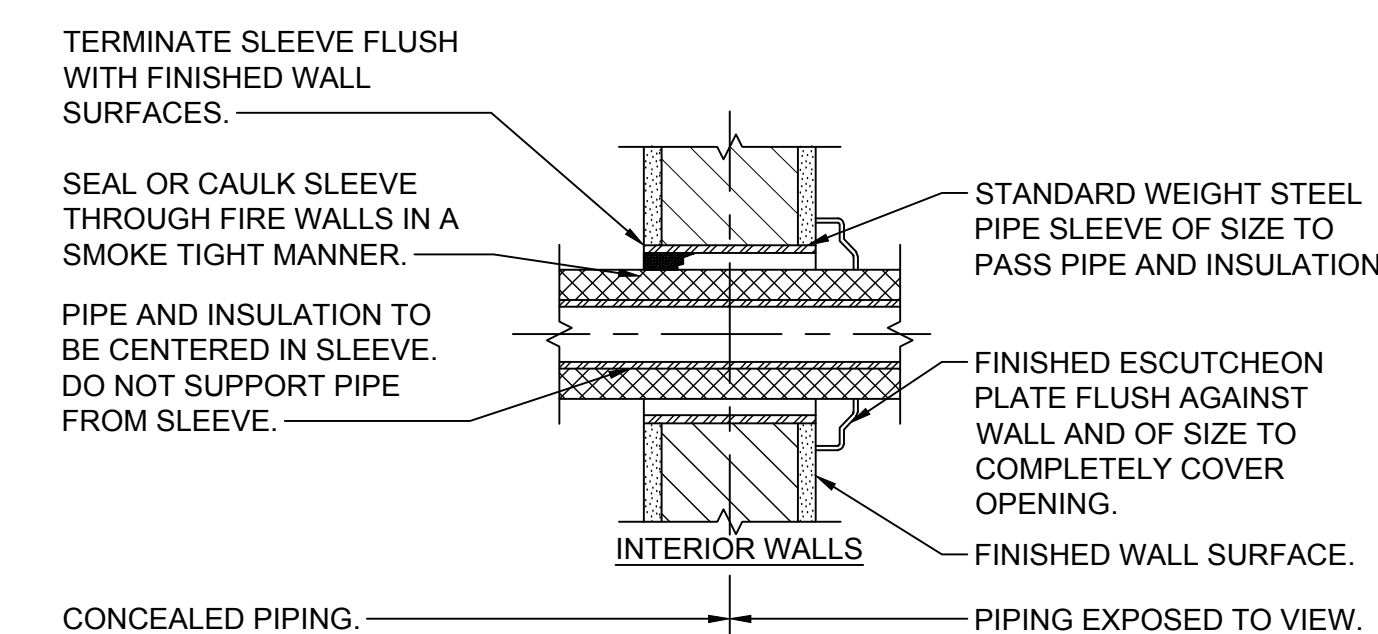
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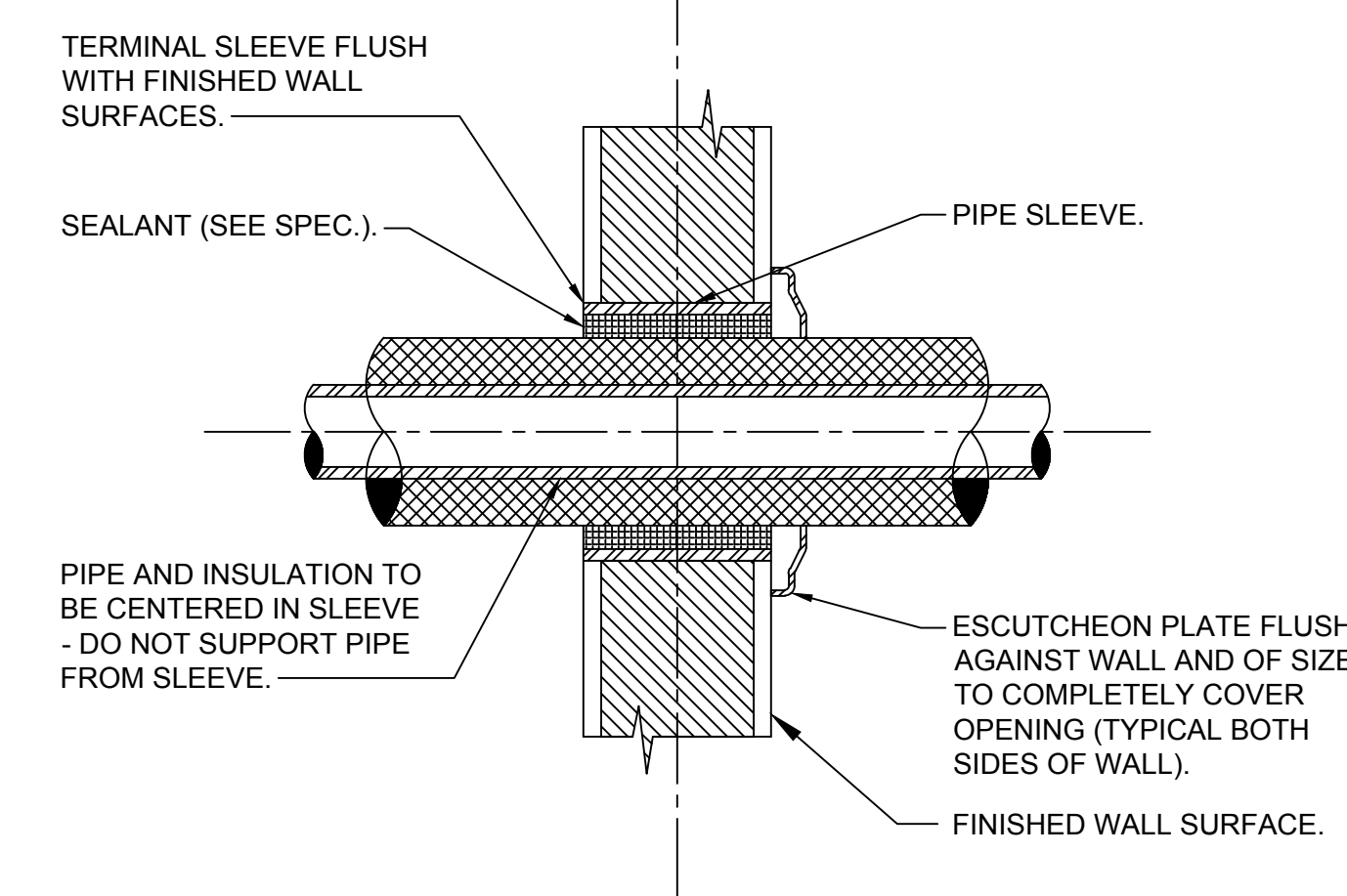
ELECTRICAL SITE PLAN

Job No. NKGD0207.00 Date 06/29/2023
Scale AS NOTED Drawn / Checked HM / RC
VB / ML / DS

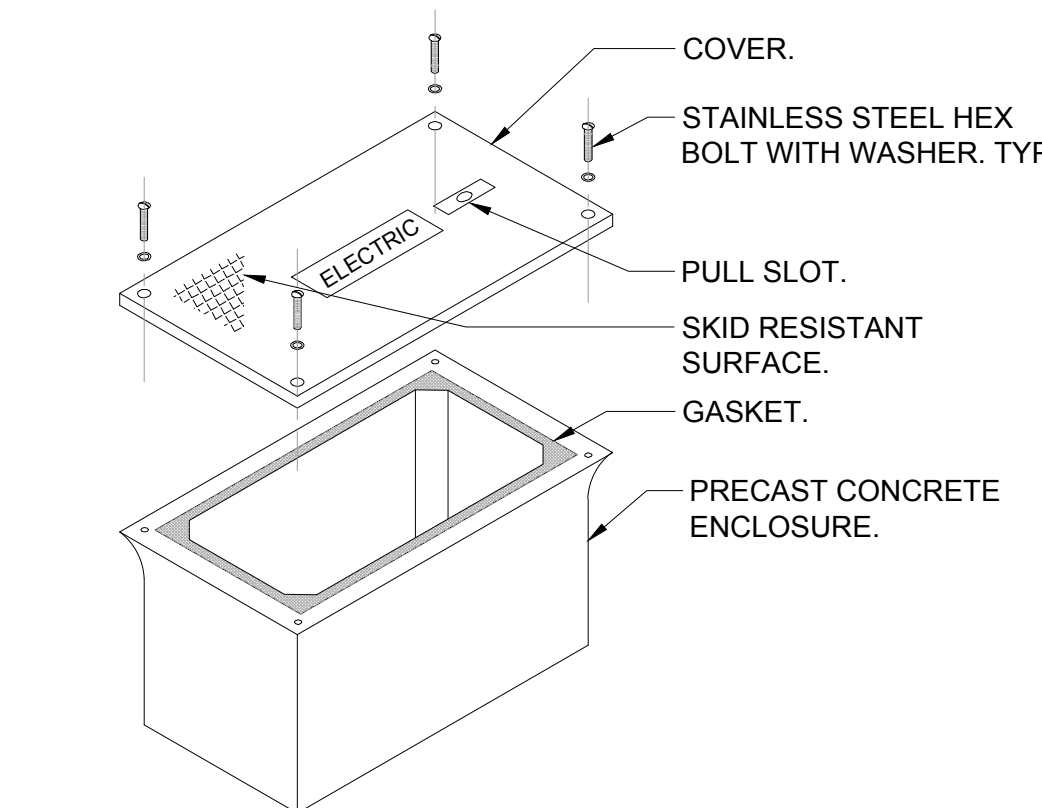
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3 PIPE WALL SLEEVE DETAIL
SCALE: NONE

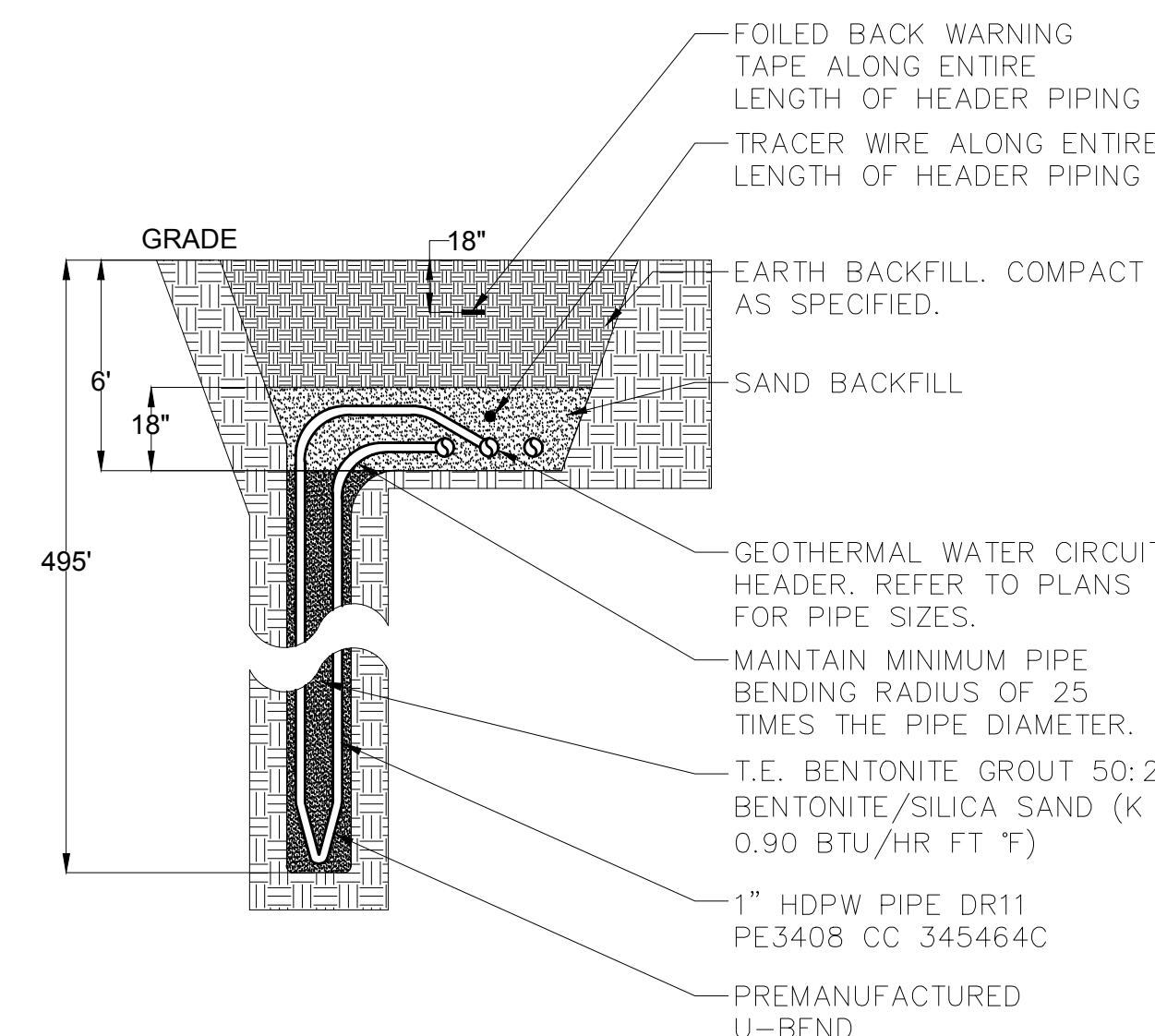


2 HAND HOLE DETAIL
SCALE: NONE

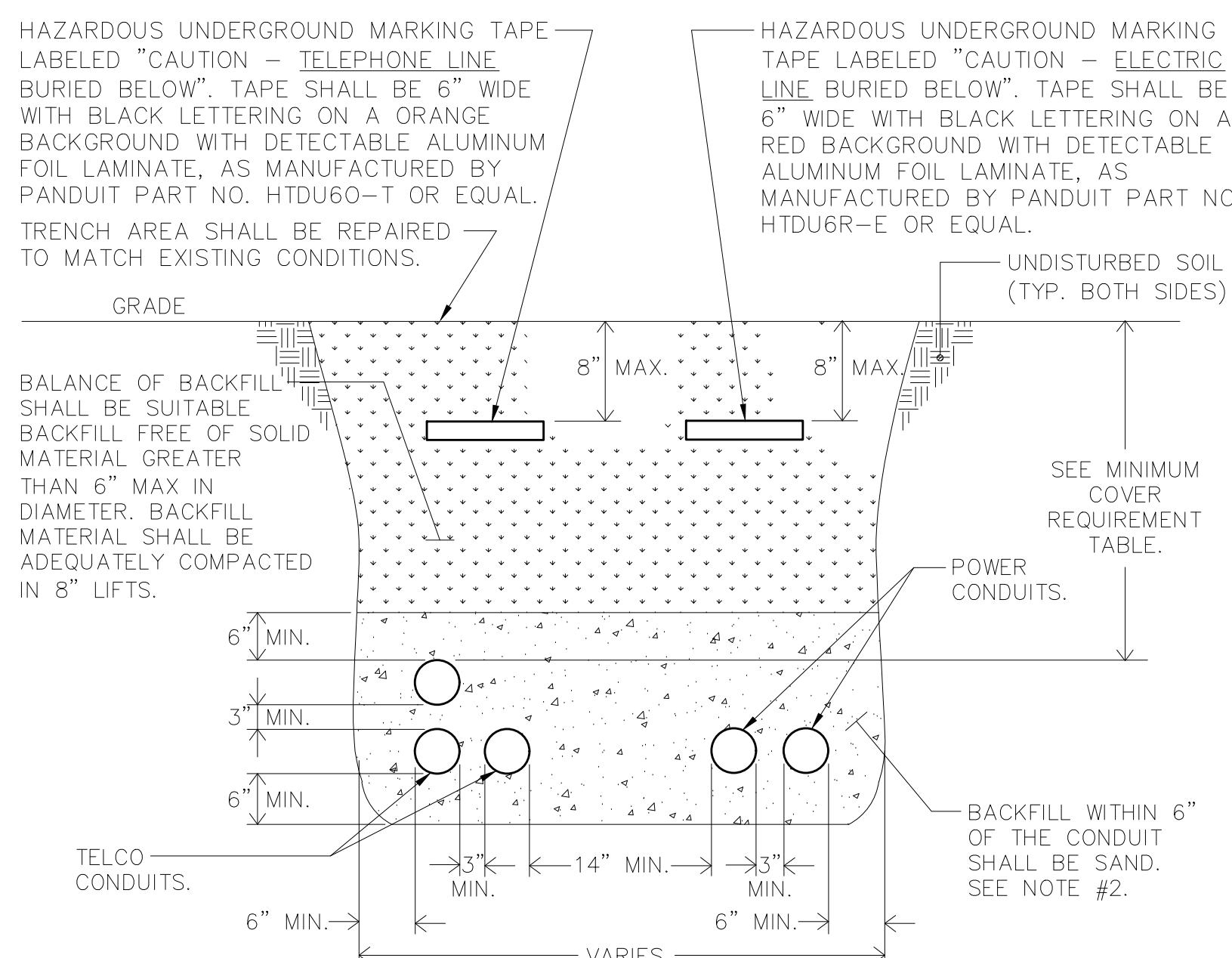


1 TRANSFORMER PAD
SCALE: NONE

TRANSFORMER CLEARANCE NOTES:
1.) AREA IN FRONT OF DOOR TO BE CLEAR OF ALL ROCKS, STUMPS AND OTHER OBSTRUCTIONS SO THAT THE OPERATOR HAS A SAFE WORKING AREA.
2.) UTILITY COMPANY SHALL HAVE THE RIGHT TO CUT BACK GROWING BUSHES TO WITHIN STATED CLEARANCES.



5 GEOTHERMAL WELL DETAIL
SCALE: NONE

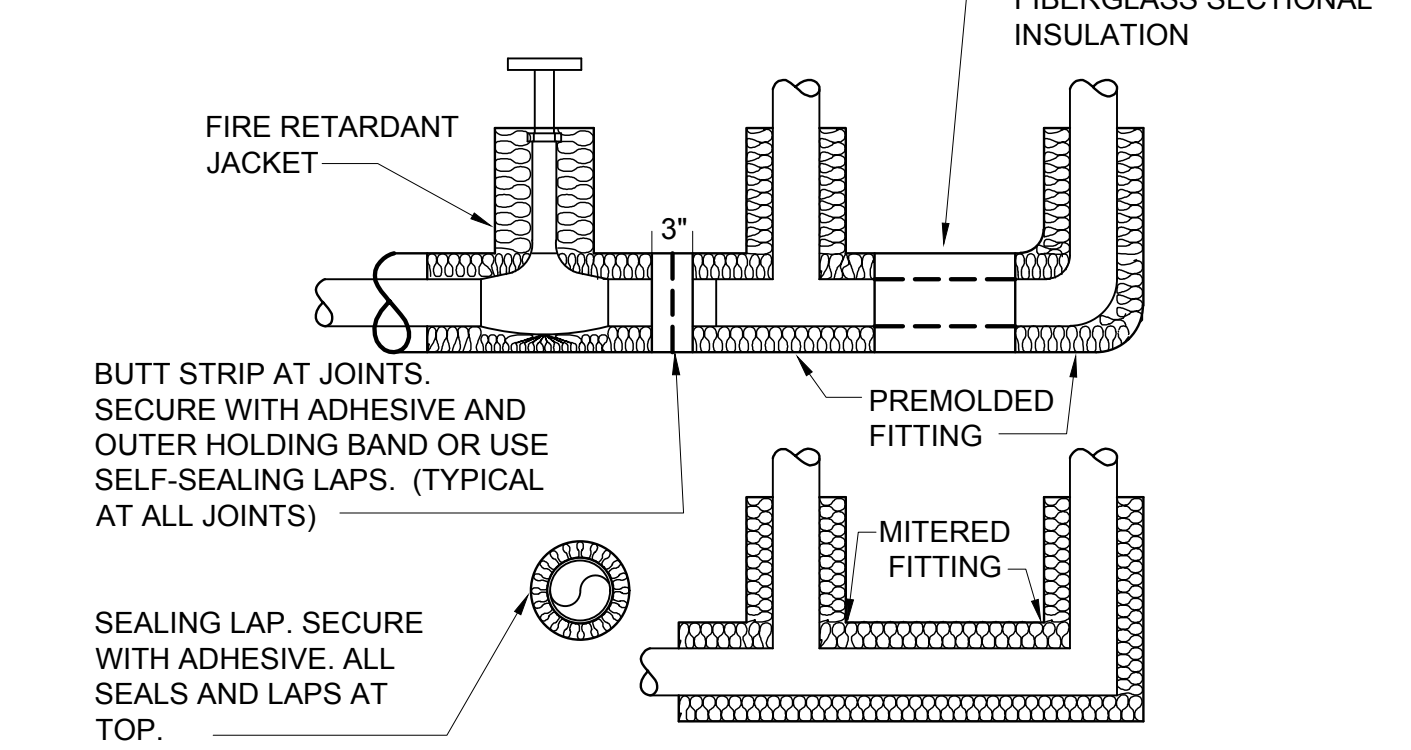


MINIMUM COVER REQUIREMENT TABLE	
LOCATION	NONMETALLIC RACEWAYS LISTED FOR DIRECT BURIAL WITHOUT CONCRETE ENCASEMENT OR OTHER APPROVED RACEWAYS
ALL LOCATION NOT SPECIFIED BELOW.	18"
IN TRENCH BELOW 2-IN. THICK CONCRETE OR EQUIVALENT.	12"
UNDER MINIMUM OF 4-IN. THICK CONCRETE EXTERIOR SLAB WITH NO VEHICULAR TRAFFIC AND THE SLAB EXTENDING NOT LESS THAN 6 IN. BEYOND THE UNDERGROUND INSTALLATION.	4" SEE NOTE #2.
UNDER STREETS, HIGHWAYS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING LOTS.	24"

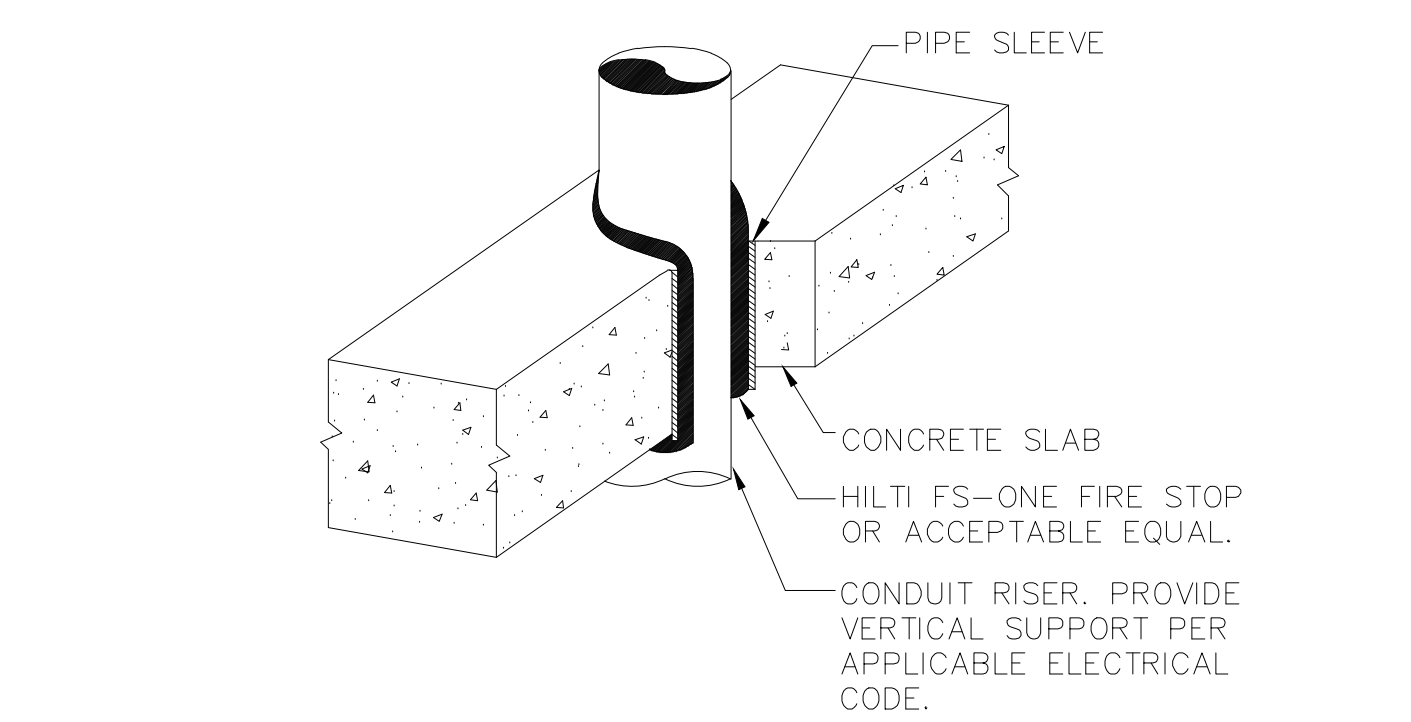
4 TRENCHING DETAIL FOR CONDUIT
SCALE: NONE

NOTES:
1.) DETAIL SHOWN FOR INFORMATION PURPOSES. SAME CONCEPT SHALL ALSO APPLY FOR 'SINGLE CONDUITS.'
2.) SAND MAY BE OMITTED FOR INSTALLATIONS WHERE COVER REQUIREMENTS ARE 6" OR LESS.

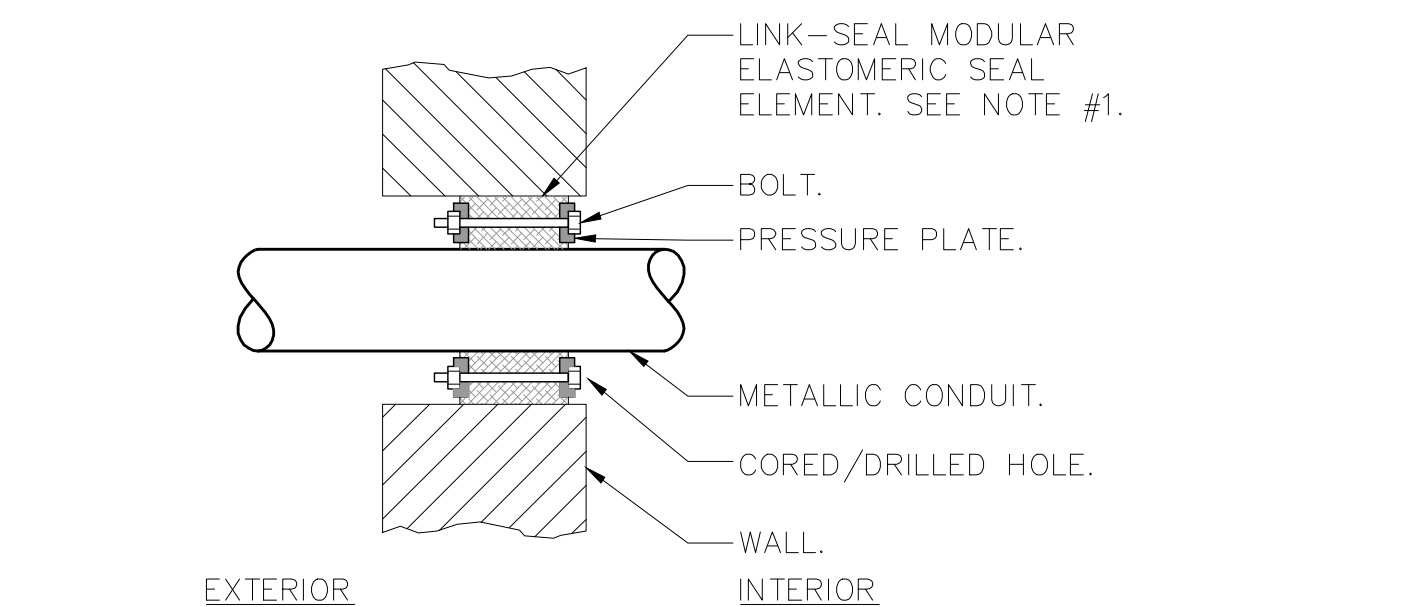
- CONCEALED VALVES AND FITTINGS**
1. WRAP WITH 1" THICK, 1 LB. DENSITY TO REQUIRED PIPE INSULATION THICKNESS.
2. SECURE WITH WIRE OR TAPE.
3. VAPOR SEAL COLD WATER AND STORM WATER PIPING.
EXPOSED VALVES AND FITTINGS
1. PREMOLDED FIBERGLASS OR RADIAL MITERED PIPE INSULATION.
2. SKIM COAT OF INSULATING CEMENT.
3. COAT OF MASTIC.
4. WRAP WITH FIBERGLASS REINFORCING CLOTH.
5. FINISH COAT OF MASTIC.
6. OVERLAP 2" ON PIPE INSULATION.



8 PIPE INSULATION DETAIL
SCALE: NONE

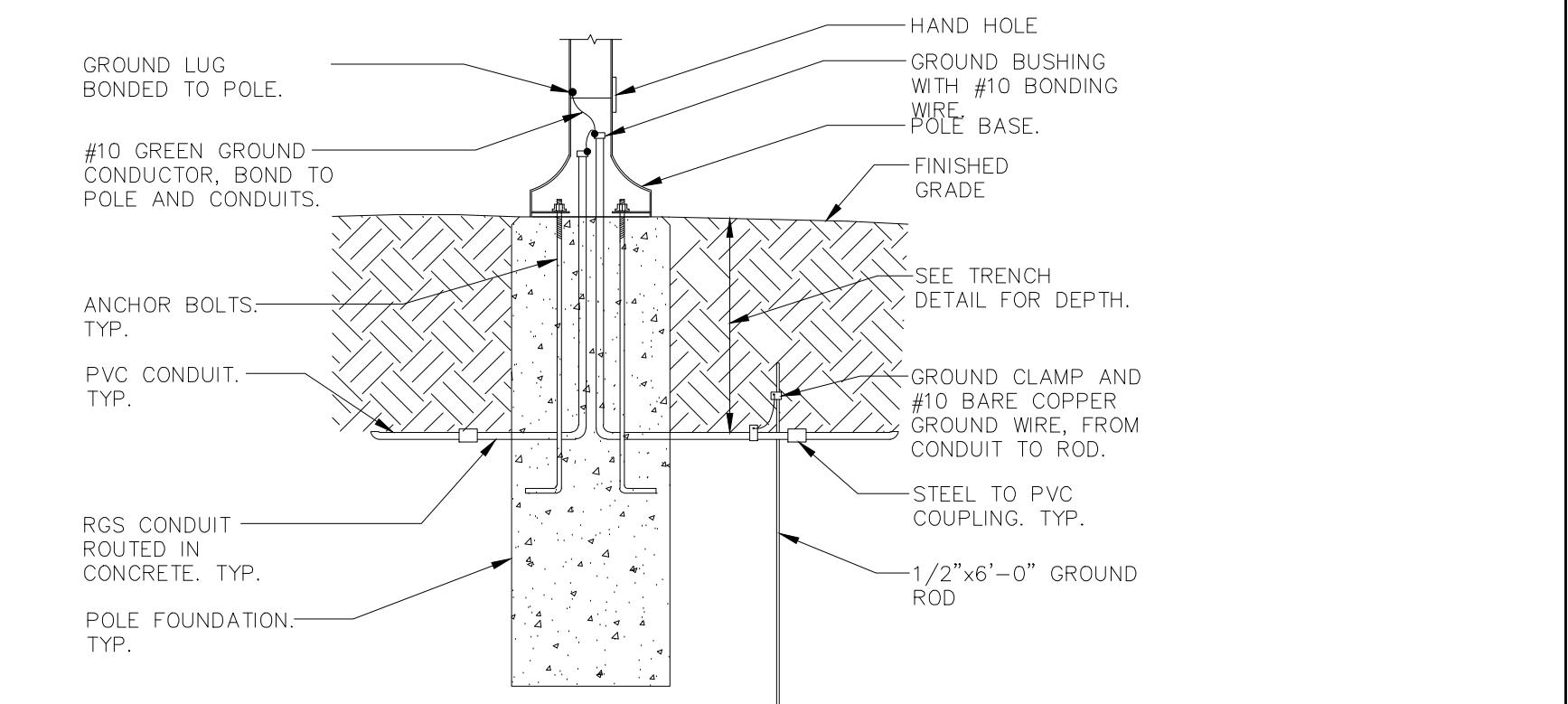


7 TYPICAL VERTICAL CONDUIT PENETRATION DETAIL
SCALE: NONE



NOTES:
1.) SEAL ASSEMBLY BASED ON MODEL "C" LINK-SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, REINFORCED NYLON POLYMER PRESSURE PLATES, STEEL WITH 2-PART ZINC DICHROMATE & CORROSION INHIBITING COATING NUTS AND BOLTS AND WITH A OPERATING TEMPERATURE RANGE OF -40°F TO +250°F.
2.) PROVIDE AND INSTALL TWO SEALS WHEN PENETRATED WALL THICKNESS IS GREATER THAN 12".
3.) PROVIDE SCHEDULE 80 WALL SLEEVE FOR NEW WALL CONSTRUCTION PER MANUFACTURER'S REQUIREMENTS.

6 TYPICAL EXTERIOR MASONRY WALL BELOW GRADE CONDUIT PENETRATION DETAIL
SCALE: NONE



NOTE:
1.) SEE STRUCTURAL DRAWINGS FOR FOUNDATION DETAIL.

9 LIGHT POST ELECTRICAL INSTALLATION DETAIL
SCALE: NONE