PLUMBING GENERAL NOTES

SEE ALL PROJECT GENERAL NOTES AND OTHER REQUIREMENTS INCLUDING THE LIFE SAFETY AND INFECTION CONTROL REQUIREMENTS LOCATED WITHIN THE GENERAL DRAWINGS SECTION. COMPLY WITH ALL REQUIREMENTS AS THEY ARE A DIRECT PART OF THIS SECTION AND AS IF THEY WERE DIRECTLY INCLUDED AND PROVIDED BELOW.

EQUIVALENCY SUBSTITUTIONS: THE "BASIS OF DESIGN (BOD) PROTOCOLS" ARE TO BE FOLLOWED FOR ALL EQUIPMENT, MATERIALS AND ASSEMBLIES SPECIFIED AND DETAILED THROUGHOUT ALL DRAWINGS AND SPECIFICATION SECTIONS, WHETHER THE BOD DESIGNATE IS SPECIFICALLY REFERENCED THEREIN OR NOT. SEE THE GENERAL DRAWINGS SECTION FOR THE FULL BOD EQUIVALENCY SUBSTITUTION REQUIREMENTS AND PROTOCOLS TO BE FOLLOWED.

1. THIS CONTRACTOR SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS: INCLUDING BUT NOT NECESSARILY LIMITED TO ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL DRAWINGS AND ENTIRE PROJECT SPECIFICATIONS. THIS CONTRACTOR SHALL ACKNOWLEDGE AND INCLUDE IN THE SCOPE OF WORK (CONTRACT) ALL CONDITIONS PERTINENT TO THE COMPLETION OF HIS WORK. THIS CONTRACTOR SHALL FULLY COORDINATE HIS/HER WORK WITH THE INSTALLATION OF WORK BY OTHER TRADES AND MAKE NECESSARY FIELD ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE INSTALLATION. ALL OF THE ABOVE SHALL BE INCLUDED IN THE SCOPE OF WORK.

2. THIS CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK AND FULLY INFORM THEMSELVES AS TO ALL CONDITIONS AND MATTERS THAT CAN, IN ANY WAY, AFFECT THE WORK OR THE COST THEREOF. SHOULD THIS CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, OR BE IN DOUBT AS TO THEIR MEANING, NOTIFY THE VA/CO AT ONCE, IN WRITING, OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND NEW WORK, OR BETWEEN THEIR WORK AND THE WORK OF OTHER TRADES AND OBTAIN CLARIFICATION PRIOR TO SUBMITTING ANY BID. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED AS TO INDICATE NO DISCREPANCIES OR CONFLICTS EXIST.

3. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE INTENT, GENERAL CHARACTER, REQUIREMENTS AND LOCATION OF THE WORK SHOWN AND INCLUDED. THE WORK INDICATED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE VA/GOVERNMENT.

4. THE CONTRACTOR IS REQUIRED TO BID, AS SPECIFIED, THE WORK SHOWN ON THE DRAWINGS AND PROVIDED IN THE SPECIFICATIONS WITHOUT DEVIATION, WITH THE EXCEPTION OF ANY BASIS OF DESIGN (BOD) EQUIVALENCY SUBSTITUTIONS. THESE REQUESTED SUBSTITUTIONS WILL NEED TO BE IDENTIFIED, SUBMITTED AND APPROVED BY THE VA/CO AND SHALL BE IN FULL COMPLIANCE WITH THE BASIS OF DESIGN COMPLIANCE PROTOCOLS. SEE GI001.

5. THIS CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM. WHERE THERE IS NO MENTION OF THE RESPONSIBLE PARTY FOR A SPECIFIC ITEM TO BE FURNISHED OR INSTALLED ON THE DRAWINGS, THE DRAWING'S TRADE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR ALL RELATED PURCHASES AND LABOR FOR PROVIDING A COMPLETE OPERATING SYSTEM FOR THIS ITEM.

6. WHEN PERFORMING ANY CUTTING OR PATCHING (RESTORE TO ORIGINAL STATE) ALL BUILDING MATERIALS AND FINISHES AS REQUIRED TO PROVIDE A FINISHED PRODUCT THAT IS LIKE NEW AND DOESN'T STAND OUT AS BEING DIFFERENT OR DISTINGUISHABLE AS A PATCH OR REPAIR.

7. THIS CONTRACTOR SHALL VERIFY AND COORDINATE ALL MOUNTING, ARRANGEMENTS, HEIGHTS AND LOCATIONS PRIOR TO ROUGH-IN AS REQUIRED BY THE VA DESIGN GUIDES/MANUALS ALONG WITH THE EXPRESSED DESIGN INTENT PRESENTED WITHIN THESE DOCUMENTS.

8. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL SLEEVES THRU WALLS AND THROUGH FLOORS, INCLUDING CORING IF REQUIRED. CONTRACTOR SHALL X-RAY AREAS TO DETERMINED LOCATION OF RE-INFORCEMENT.

9. PLUMBING CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL EXISTING SANITARY, VENT AND WATER SUPPLY PIPING ON THE SITE PRIOR TO THE PERFORMANCE OF ANY WORK.

10. PROVIDE SERVICE VALVES AT ALL BRANCH SUPPLY PIPING. SUCH SERVICE VALVES SHALL BE AS PER THE SPECIFICATIONS AND IN KEEPING WITH THE VA STANDARDS AND REQUIREMENTS.

11. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL CURRENT GOVERNING LOCAL, COUNTY, STATE, AND FEDERAL BUILDING CODE REQUIREMENTS AND REGULATIONS PLUS COMPLIANCE WITH LOCAL UTILITY COMPANY AND VA REQUIREMENTS.

12. THIS CONTRACTOR SHALL BE LICENSED, BONDED, INSURED AND CAPABLE OF PERFORMING QUALITY WORKMANSHIP.

13. THIS CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF ALL PERSONNEL THRU ALL PHASES OF WORK, COMPLYING WITH ALL APPLICABLE PROVISIONS OF CITY, STATE, AND FEDERAL SAFETY LAWS (OSHA) AND AS RECOMMENDED IN THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" AS ISSUED BY THE ASSOCIATION OF GENERAL CONTRACTORS OF AMERICA, INC., 20TH AND E. STREETS, N.W. WASHINGTON, D.C.

14. THIS CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE PURCHASE, DELIVERY, RECEIVING, UNLOADING, UNCRATING, STORING, SETTING IN PLACE, AND PROTECTING OF ALL NEW EQUIPMENT AND MATERIALS FURNISHED BY THIS CONTRACTOR ALONG WITH EQUIPMENT FURNISHED BY THE VA AND INSTALLED BY THIS CONTRACTOR. PROVIDE PROTECTION FROM DAMAGE BY THE CONSTRUCTION, HANDLING, VANDALISM AND WEATHER DURING ALL PHASES OF CONSTRUCTION UNTIL COMPLETION OF THE WORK.

15. THIS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS IN THE NUMBERS REQUIRED BY THE SPECIFICATIONS PRIOR TO THE START OF INSTALLATION FOR VA/COR APPROVAL AND A SUCCESSFUL REVIEW BY THE ARCHITECT/ENGINEER.

16. THIS CONTRACTOR SHALL FURNISH AS-BUILT CONTRACT DOCUMENTS TO THE VA/COR BEFORE FINAL PROJECT CLOSE-OUT CAN OCCUR. THE CONTRACT RECORD AS-BUILT DOCUMENTS SHALL BE PROVIDED IN ELECTRONIC REPRODUCIBLE FORM.

17. ALL NEW SANITARY PIPING SHALL BE GIVEN A FULL STATIC PRESSURE TEST. METHOD OF TEST AND REQUIREMENTS TO BE MET SHALL BE AS PER THE SPECIFICATIONS AND IN CONJUNCTION WITH ALL LOCAL, STATE AND FEDERAL CODE REQUIREMENTS ALONG WITH ALL REQUIREMENTS OF THE VA, BOTH FEDERAL AND LOCAL. ADD REPORT TO THE SUBMITTAL REGISTER.

18. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PUMPING AND DRAINING OF TRENCHES OR PITS NECESSARY FOR THE INSTALLATION OF THEIR WORK.

19. UPON COMPLETION OF THE WORK, THIS CONTRACTOR SHALL REVIEW AND CHECK THE ENTIRE PORTION OF THEIR WORK, CLEAN EQUIPMENT AND DEVICES, REMOVE SURPLUS MATERIALS AND RUBBISH FROM THE PROPERTY, LEAVE THE WORK IN NEAT AND CLEAN ORDER, AND PROVIDE A COMPLETED SYSTEM(S) THAT HAS BEEN FULLY TESTED AND IS IN GOOD WORKING CONDITION. EACH RESPECTIVE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY CARTONS, DEBRIS, EQUIPMENT, ETC., INSTALLED BY THIS CONTRACTOR INCLUDING EQUIPMENT FURNISHED BY OTHERS

21. ALL EQUIPMENT/DEVICES SHALL BE AND OF FIRST RATE QUALITY (UNLESS OTHERWISE SPECIFIED) AND IS TO BEAR THE APPROPRIATE NSF, AGA, CSA OR UL APPROVED LABELS, LISTINGS, AND CERTIFICATIONS FOR THE SPECIFIC DESIGN PURPOSE.

22. THE DRAWINGS, SCHEDULES AND SPECIFICATIONS HAVE BEEN PREPARED USING ONE MANUFACTURER FOR EACH PIECE OF EQUIPMENT AS THE BASIS OF DESIGN. BEFORE THE CONTRACTOR PURCHASES EQUIPMENT FROM A SPECIFIED ACCEPTABLE MANUFACTURER, BUT NOT THE SCHEDULED MANUFACTURER USED FOR THE BASE DESIGN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL COMPLIANCE WITH THE PROTOCOLS REQUEST FOR EQUIVALENCY SUBMISSION AND APPROVAL PROCESS THAT NEEDS TO BE COMPLETED SUCCESSFULLY BEFORE SUCH A SUBSTITUTION WILL BE ALLOWED TO OCCUR AND BE SUBMITTED VIA THE SHOP DRAWING PROCESS. AS PART OF THAT PROCESS THE REQUESTING CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL THE DIMENSIONS OF THE EQUIPMENT TO VERIFY THAT IT WILL FIT IN THE SPACE SHOWN ON THE DRAWINGS. MINOR DEVIATIONS IN DIMENSIONS WILL BE PERMITTED, PROVIDED THE RATINGS MEET THOSE SHOWN ON THE DRAWINGS AND EQUIPMENT WILL PHYSICALLY FIT INTO THE SPACE ALLOCATED WITH SUITABLE ACCESS AROUND EQUIPMENT FOR OPERATION AND MAINTENANCE OF THE EQUIPMENT. WHEN EQUIPMENT SUBMITTED FOR REVIEW DOES NOT MEET THE PHYSICAL SIZE OR ARRANGEMENT OF THAT SCHEDULED AND SPECIFIED, CONTRACTOR SHALL BE RESPOSIBLE FOR ANY AND ALL ALTERATIONS REQUIRED TO ACCOMMODATE SUCH EQUIPMENT AT NO ADDITIONAL COST TO THE V.A. CONTRACTOR WILL ALSO BE RESPONSIBLE FOR ALL ADDITIONAL WORK REQUIRED BY OTHER CONTRACTORS TO MAKE CHANGES WHICH WOULD ALLOW THE EQUIPMENT TO FIT IN THE SPACE AND FUNCTION AS INTENDED. SEE FULL BASIS OF DESIGN COMPLIANCE PROTOCOLS ON GI001.

23. GENERAL CONTRACTOR MUST FIELD VERIFY SIZES, CAPACITIES, WEIGHTS, ETC. ON ALL EQUIPMENT. DISCREPANCIES FROM THE ORIGINAL BASIS OF DESIGN ON THE DRAWINGS WILL NOT CONSTITUTE A BASIS FOR CHANGE ORDERS. VERIFY WITH VA/COR FOR ANY AND ALL DISCREPANCIES IF THEY EXIST.

24. IN THE CASE OF CONFLICTS OR DISCREPANCIES WITHIN OR AMONG THE CONTRACT DRAWINGS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS OR GREATER QUANTITY AND QUALITY OF WORK, AS DETERMIONED BY THE GOVERNMENT/CO/COR, SHALL BE PROVIDED.

PLUMBING MATERIALS AND PROCEDURES NOTES

MATERIALS

1. ALL MATERIALS SHALL BE NEW OF FIRST QUALITY AND UL LISTED FOR THE SPECIFIC DESIGN PURPOSE.
2. FURNISH AND INSTALL UNIONS WHERE INDICATED OR AS DEEMED NECESSARY FOR REPAIR OR SERVICE. UNIONS 2" AND SMALLER SHALL BE STANDARD GROUND JOINT BRASS TO IRON SEAT, MALLEABLE IRON, SCREWED. UNIONS 2-1/2" AND LARGER SHALL BE STANDARD CAST IRON FLANGED UNIONS 125# CLASS.
3. THE BASIS OF DESIGN FOR VALVES SHALL BE MANUFACTURED BY CRANE, STOCKHAM. VALVE NUMBERS INDICATED HERE ARE CRANE. GATE VALVES, 2" AND SMALLER, #428. GLOBE VALVE, 2" AND SMALLER #7. CHECK VALVE, 2" AND SMALLER, #36. VALVES ARE SUITABLE FOR IRON OR STEEL PIPE ONLY. IF COPPER PIPING IS USED, MODIFY VALVE NUMBERS AS REQUIRED AND SUBMIT PROPER VALVES FOR VA/COR APPROVAL. REFER TO SPECIFICATION SECTION 22 05 23 GENERAL DUTY VALVES.
4. THE BASIS OF DESIGN FOR PIPE INSULATION AT ALL PIPE HANGERS SHALL CONSIST OF INSUL-SHIELD FIBERGLASS PIPE SUPPORTS AS MANUFACTURED BY INSUL-COUSTIC.
5. HANGERS SHALL BE OF STANDARD WEIGHT STEEL OR IRON ROD AND RING OR CLEVIS TYPE. SEE 4/P501 FOR PIPE HANGER DETAIL.

PROCEDURES:

1. ALL SUSPENDED HORIZONTAL PIPING SHALL BE SUPPORTED BY HANGERS SPACED NO FURTHER THAN 8'-0" APART. NO PIPING SHALL BE SELF-SUPPORTING NOR BE SUPPORTED FROM EQUIPMENT CONNECTIONS.
2. ALL PARALLEL PIPES TWO (2) OR MORE SHALL BE SUPPORTED ON A CHANNEL TYPE TRAPEZE HANGER.
3. SUPPORTS AND HANGERS SHALL BE INSTALLED TO PERMIT FREE EXPANSION AND CONTRACTION IN PIPING SYSTEMS UNLESS PIPE REQUIRES FIRM ANCHOR CONTROL.
4. HORIZONTAL SOIL OR WASTE LINES SHALL BE AT A SLOPE OF NOT LESS THAN 1/8" PER FOOT AND SHALL BE HELD CLOSE TO THE CONSTRUCTION TO MAINTAIN A MAXIMUM OF HEAD ROOM. ALL CHANGES OF DIRECTION AND JUNCTIONS SHALL BE MADE WITH "Y" FITTINGS AND 1/8" BENDS. NO LINES OF ANY KIND SHALL BE LOCATED BELOW FREEZERS. ALL DRAIN LINES SHALL BE PROTECTED FROM FREEZING.
5. CLEANOUTS SHALL BE PLACED AT ALL DEAD ENDS, AT CHANGES OF DIRECTION, AT 50'-0" INTERVALS ON HORIZONTAL RUNS, OUT OF HIGH TRAFFIC AREAS, (NOT UNDER CASES) ETC. WHERE CLEANOUTS OCCUR IN CONCEALED SPACES, THEY SHALL BE PROVIDED WITH EXTENSIONS TO FLOOR ABOVE OR TO WALLS. A HAND-HOLE TEST TEE SHALL BE PLACED AT THE BASE OF EACH STACK.
6. THE PLUMBING CONTRACTOR WILL NOT INSTALL COMBUSTIBLE PIPING MATERIAL IN OR THROUGH FIRE RATED ASSEMBLIES.
7. HORIZONTAL DRAINAGE PIPING SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR PIPING 3" DIA. AND UNDER.
8. HORIZONTAL DRAINAGE PIPING SHALL BE PITCHED NOT LESS THEN 1/8" PER FOOT FOR PIPING 4" DIA. AND OVER.
9. ALL EQUIPMENT DEVICES SHALL BE INSTALLED WITH UNIONS IN SUCH A MANNER TO FACILITATE EASY REMOVAL AND MAINTENANCE OF EQUIPMENT WITHOUT DISRUPTING SERVICE AND CAUSING MAJOR PIPING REVISIONS.

PLUMBING SYMBOL LIST

SYMBOL	DESCRIPTION
A/E	ARCHITECT / ENGINEER
A.F.F.	ABOVE FINISH FLOOR
AD	AREA DRAIN
B.F.F.	BELOW FINISHED FLOOR
CI	CAST IRON (PIPE)
CO	CLEANOUT
DN	DOWN
(E)	EXISTING
(D)	DEMO
UG	UNDERGROUND
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
ST	STORM PIPING
SAN	SANITARY PIPING
SP	SUMP PUMP
PD	PUMPED DRAIN
TYP.	TYPICAL
WCO	WALL CLEANOUT
	RISER DOWN
	RISER UP
	REDUCER OR INCREASER
FCO	FLOOR CLEAN OUT
WCO	WALL CLEAN OUT
	POINT OF CONNECTION (TO EXISTING)
	POINT OF DEMOLITION (OF EXISTING)
	SHUT-OFF VALVE
	BALL VALVE
	CHECK VALVE (DIRECTION OF FLOW)
	PLUMBING EQUIPMENT TAG

Revisions:	Date:
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08-09-2024

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title PLUMBING - GEN NOTES ABBREVIATIONS AND SYMBOLS

Approved: Project Director

Phase ISSUE FOR BID

Project Title PARKING RAMP EXPANSION

Project Number 528-18-375

Building Number 29

Location 3495 BAILEY AVE., BUFFALO, NY 14215

Issue Date 08-09-2024

Checked RH

Drawn HS

Drawing Number P001

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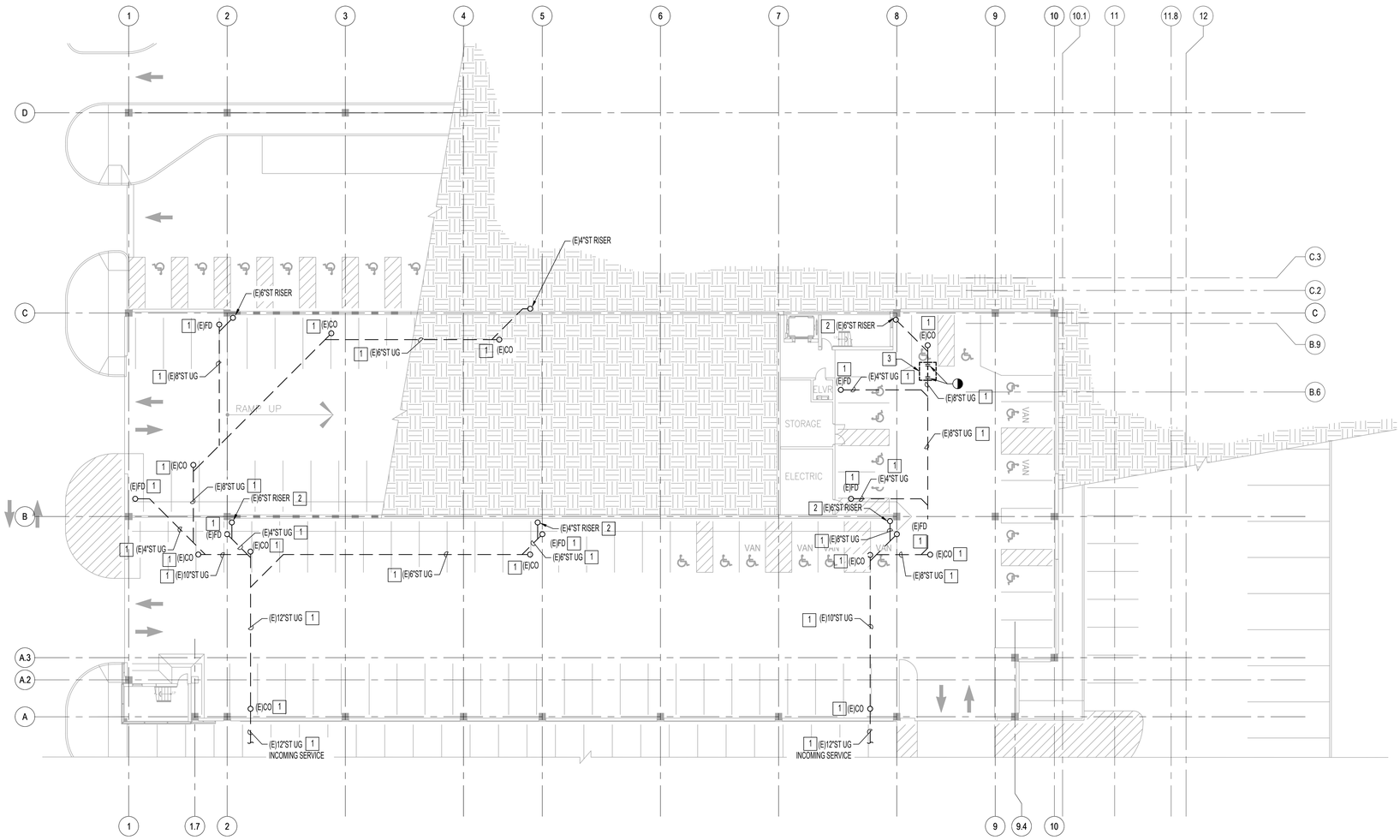


1 STORM PIPING DEMOLITION PLAN - LEVEL 1
1/16"=1'-0"

PLUMBING DEMOLITION GENERAL NOTES

A. ALL WORK IMPACTING LEVEL 3 SHALL BE DONE OFF-HOURS TO MINIMIZE SHUT DOWN OF THIS AREA.

B. ALL ASSOCIATED PIPING INCLUDING BUT IS NOT LIMITED TO THE FOLLOWING SYSTEMS: STORM PIPING.

C. ALL SHUTDOWNS WILL REQUIRE A MINIMUM OF 30 DAYS ADVANCE NOTICE. COORDINATE ALL PLUMBING SERVICE OUTAGES/SHUTDOWNS WITH VA COR.

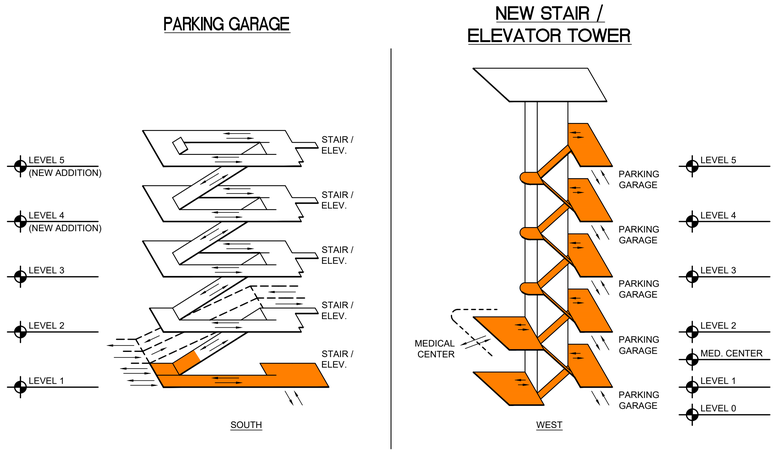
D. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO FINISHES OR COMPONENTS NOT SCHEDULED FOR DEMOLITION. DAMAGED ITEMS SHALL BE REPLACED OR REPAIRED TO MEET EXCEED FORMER CONDITIONS.

E. PATCH AND FILL CONCRETE SLAB WHERE STORM PIPING HAS BEEN REMOVED.

F. PIPING AND EQUIPMENT SHOWN ON THIS DRAWING WAS BASED ON AS-BUILT DOCUMENTATION PROVIDED BY THE VA AND A CURSORY ON SITE REVIEW OF EXISTING CONDITIONS. IF IT IS DISCOVERED THAT ANY PIPING OR EQUIPMENT, INDICATED TO BE DEMOLISHED, SERVES OTHER AREAS BEYOND THIS PROJECT SCOPE, THE CONTRACTOR MUST BE IMMEDIATELY STOP DEMOLITION OF SAID PLUMBING PIPING, NOTIFY THE COR AND ENGINEER AND WAIT FOR FURTHER INSTRUCTIONS.

X PLUMBING DEMOLITION KEY NOTES

1. EXISTING UNDERFLOOR STORM PIPING TO REMAIN AS IS.
2. EXISTING RISER TO REMAIN AS IS.
3. TRENCH FLOOR AND CUT EXISTING STORM PIPING AS SHOWN. READY PIPING FOR RECONNECTION TO NEW.



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08-09-2024

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - STORM PIPING DEMO PLAN - LEVEL 1	Phase: ISSUE FOR BID	Project Title: PARKING RAMP EXPANSION	Project Number: 528-18-375
Approved: Project Director		Location: 3495 BAILEY AVE., BUFFALO, NY 14215	Building Number: 29
		Issue Date: 08-09-2024 · Checked: RH · Drawn: HS	Drawing Number: PD101

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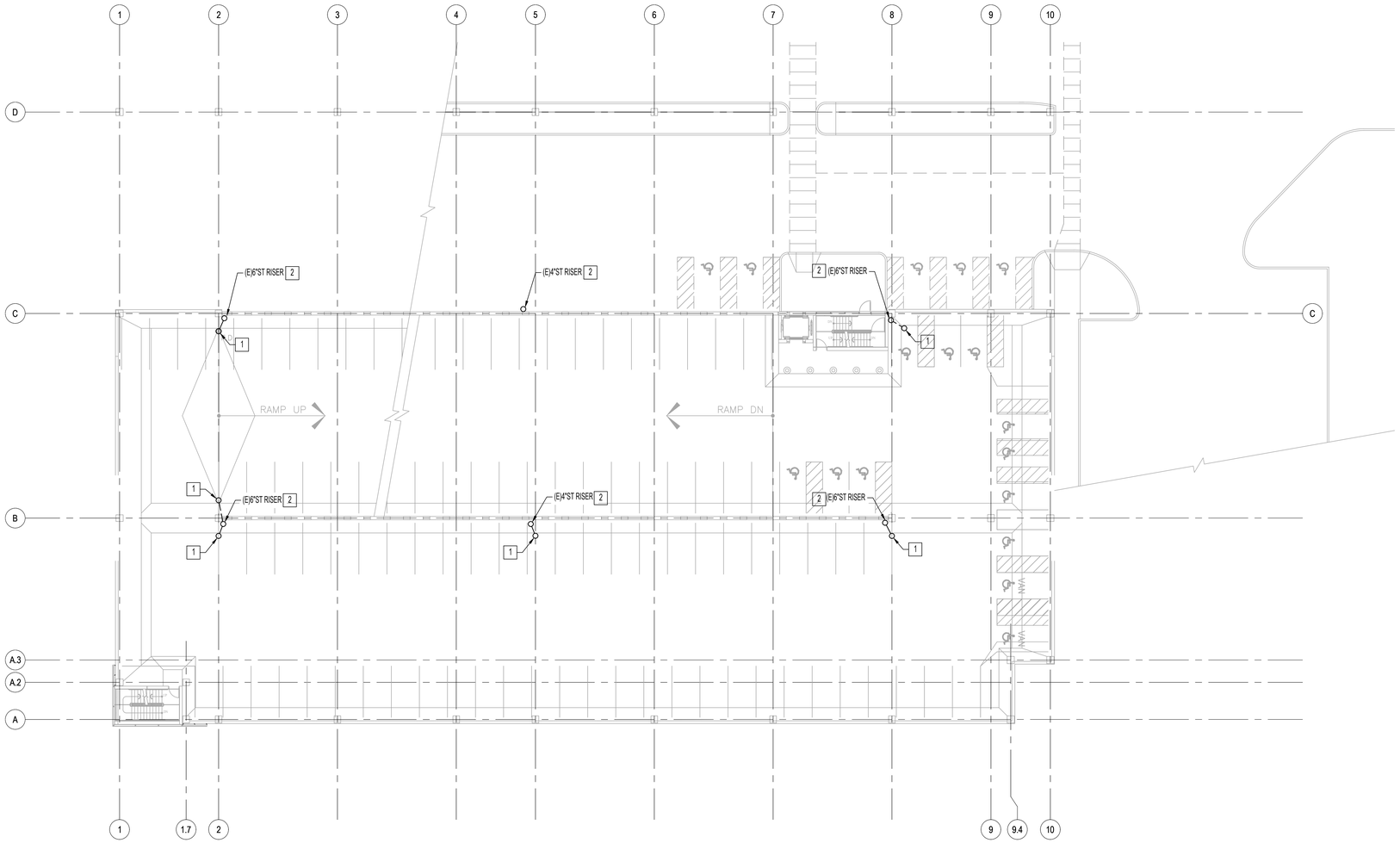


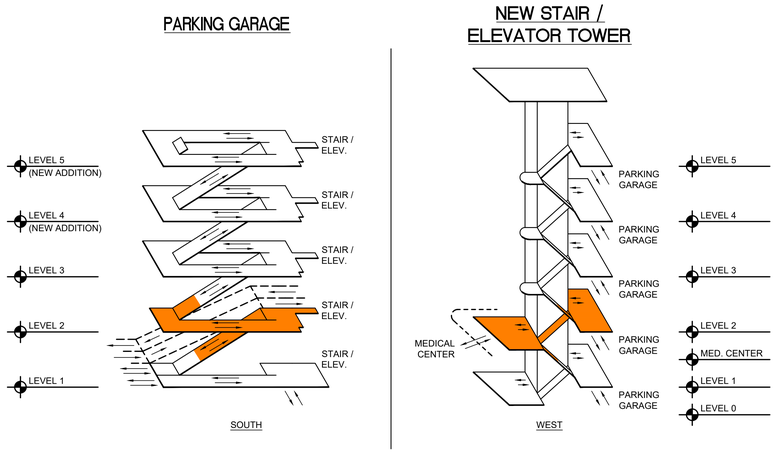
1 STORM PIPING DEMOLITION PLAN - LEVEL 2
1/16"=1'-0"

PLUMBING DEMOLITION GENERAL NOTES

A. ALL WORK IMPACTING LEVEL 3 SHALL BE DONE OFF-HOURS TO MINIMIZE SHUT DOWN OF THIS AREA.
B. ALL ASSOCIATED PIPING INCLUDING BUT IS NOT LIMITED TO THE FOLLOWING SYSTEMS: STORM PIPING.
C. ALL SHUTDOWNS WILL REQUIRE A MINIMUM OF 30 DAYS ADVANCE NOTICE. COORDINATE ALL PLUMBING SERVICE OUTAGES/SHUTDOWNS WITH VA COR.
D. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO FINISHES OR COMPONENTS NOT SCHEDULED FOR DEMOLITION. DAMAGED ITEMS SHALL BE REPLACED OR REPAIRED TO MEET EXCEED FORMER CONDITIONS.
E. PATCH AND FILL CONCRETE SLAB WHERE STORM PIPING HAS BEEN REMOVED.
F. PIPING AND EQUIPMENT SHOWN ON THIS DRAWING WAS BASED ON AS-BUILT DOCUMENTATION PROVIDED BY THE VA AND A CURSORY ON SITE REVIEW OF EXISTING CONDITIONS. IF IT IS DISCOVERED THAT ANY PIPING OR EQUIPMENT, INDICATED TO BE DEMOLISHED, SERVES OTHER AREAS BEYOND THIS PROJECT SCOPE, THE CONTRACTOR MUST BE IMMEDIATELY STOP DEMOLITION OF SAID PLUMBING PIPING, NOTIFY THE COR AND ENGINEER AND WAIT FOR FURTHER INSTRUCTIONS.

X PLUMBING DEMOLITION KEY NOTES

1. EXISTING FLOOR DRAIN TO REMAIN AS IS.
2. EXISTING RISER TO REMAIN AS IS.



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08-09-2024

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - STORM PIPING DEMO PLAN - LEVEL 2
Approved: Project Director
Phase: ISSUE FOR BID
Project Title: PARKING RAMP EXPANSION
Location: 3495 BAILEY AVE., BUFFALO, NY 14215
Issue Date: 08-09-2024
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Drawn: HS
Project Number: 528-18-375
Building Number: 29
Drawing Number: PD102

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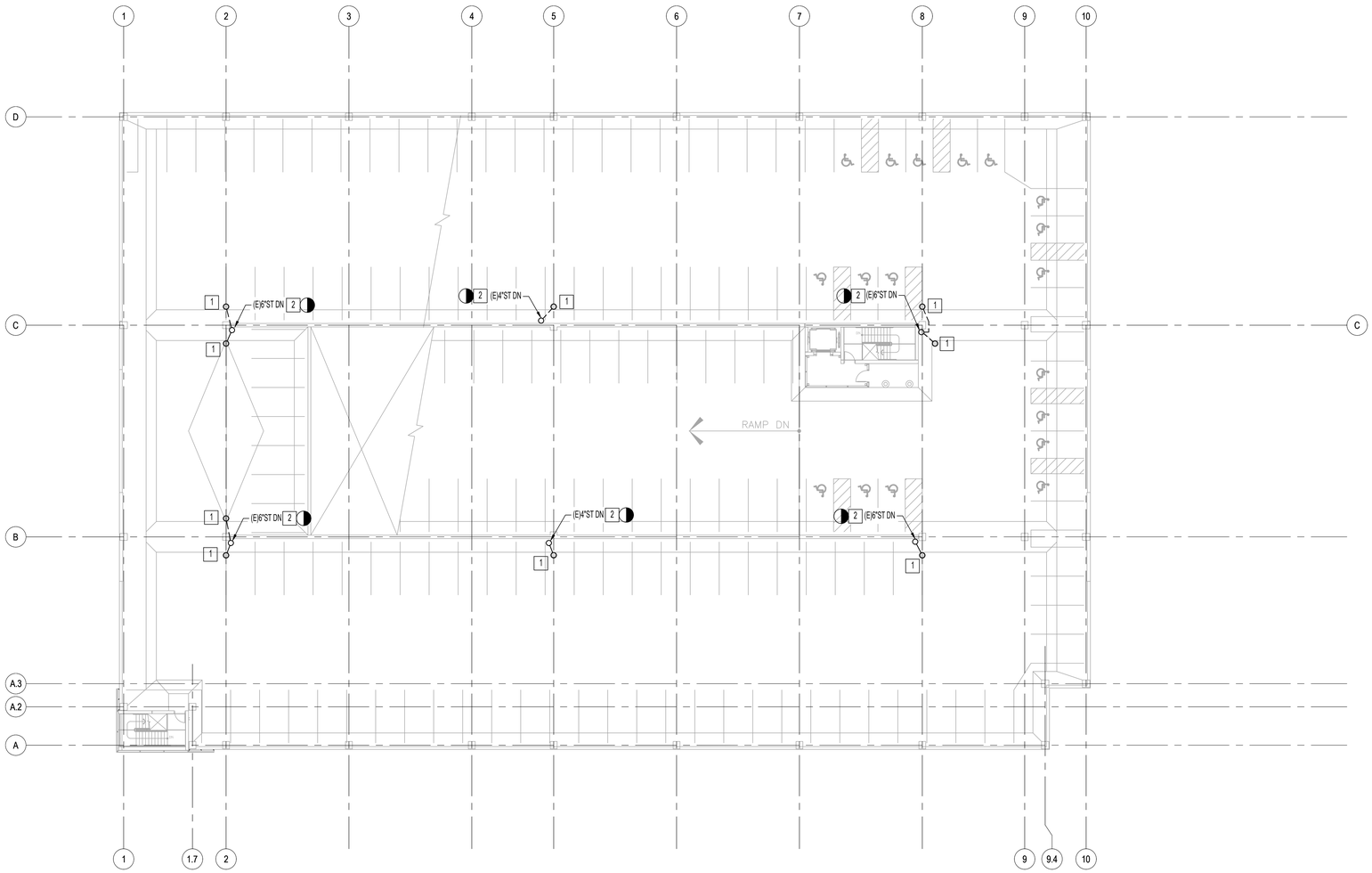


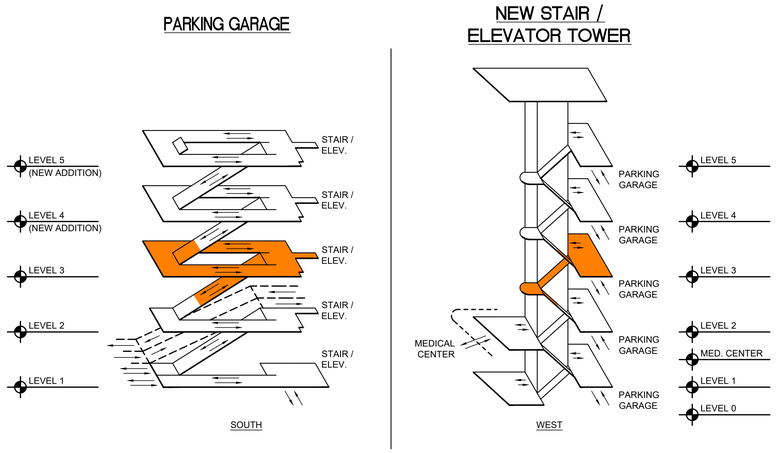
1 STORM PIPING DEMOLITION PLAN - LEVEL 3
1/16"=1'-0"

PLUMBING DEMOLITION GENERAL NOTES

A. ALL WORK IMPACTING LEVEL 3 SHALL BE DONE OFF-HOURS TO MINIMIZE SHUT DOWN OF THIS AREA.
B. ALL ASSOCIATED PIPING INCLUDING BUT IS NOT LIMITED TO THE FOLLOWING SYSTEMS: STORM PIPING.
C. ALL SHUTDOWNS WILL REQUIRE A MINIMUM OF 30 DAYS ADVANCE NOTICE. COORDINATE ALL PLUMBING SERVICE OUTAGES/SHUTDOWNS WITH VA COR.
D. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO FINISHES OR COMPONENTS NOT SCHEDULED FOR DEMOLITION. DAMAGED ITEMS SHALL BE REPLACED OR REPAIRED TO MEET EXCEED FORMER CONDITIONS.
E. PATCH AND FILL CONCRETE SLAB WHERE STORM PIPING HAS BEEN REMOVED.
F. PIPING AND EQUIPMENT SHOWN ON THIS DRAWING WAS BASED ON AS-BUILT DOCUMENTATION PROVIDED BY THE VA AND A CURSORY ON SITE REVIEW OF EXISTING CONDITIONS. IF IT IS DISCOVERED THAT ANY PIPING OR EQUIPMENT, INDICATED TO BE DEMOLISHED, SERVES OTHER AREAS BEYOND THIS PROJECT SCOPE, THE CONTRACTOR MUST BE IMMEDIATELY STOP DEMOLITION OF SAID PLUMBING PIPING, NOTIFY THE COR AND ENGINEER AND WAIT FOR FURTHER INSTRUCTIONS.

X PLUMBING DEMOLITION KEY NOTES

1. EXISTING FLOOR DRAIN TO REMAIN AS IS.
2. DISCONNECT AND REMOVE CAP AND READY STORM PIPING FOR RECONNECTION TO NEW.



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VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - STORM PIPING DEMO PLAN - LEVEL 3
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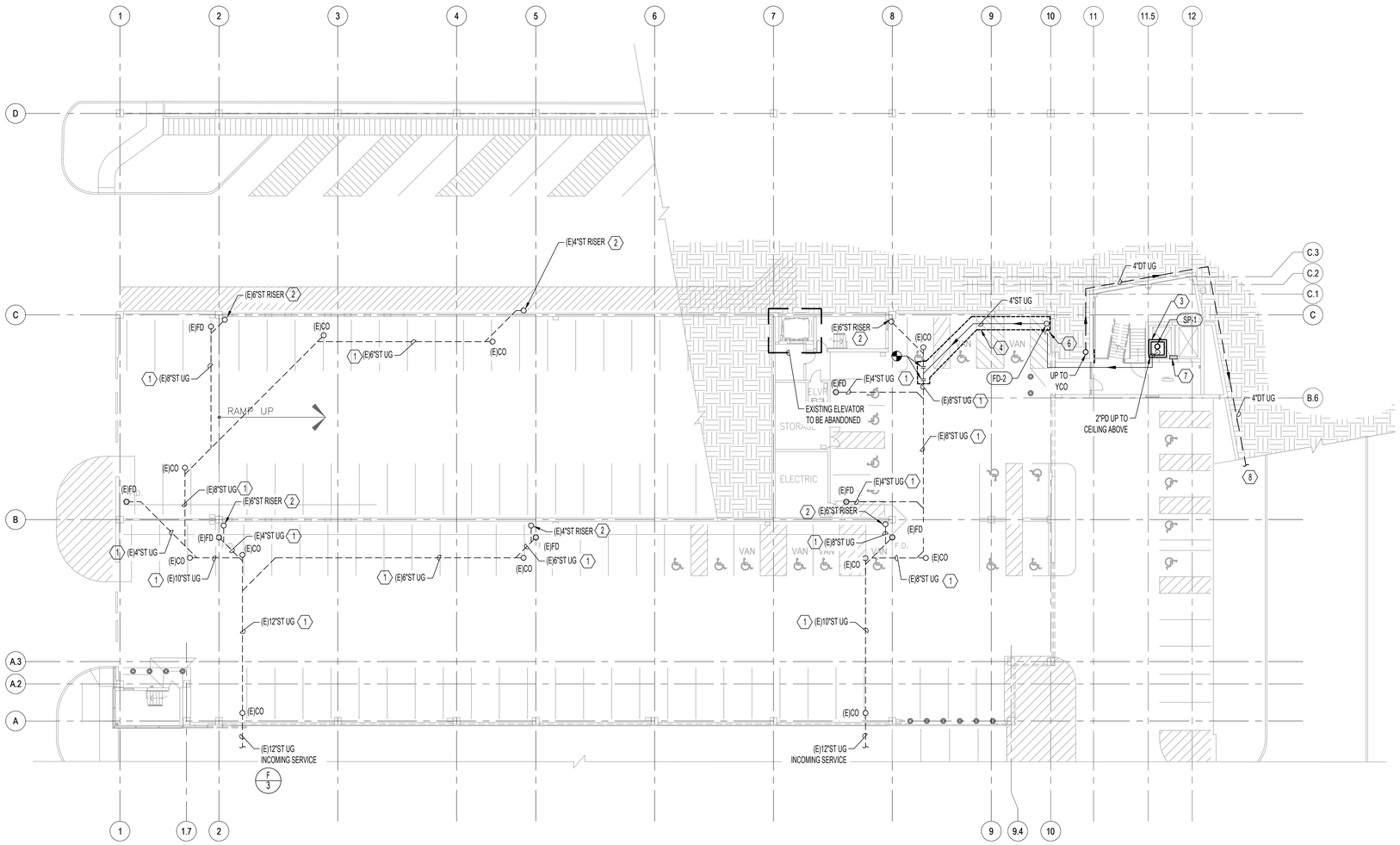


PLUMBING GENERAL NOTES

A. ALL SHUTDOWNS WILL REQUIRE A MINIMUM OF 30 DAYS ADVANCE NOTICE. COORDINATE ALL PLUMBING SERVICE OUTAGES/SHUTDOWNS WITH VA COR.

B. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.

C. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE TO ABOVE FLOOR FIXTURES DURING CONSTRUCTION IF NECESSARY.

D. CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING PIPING NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.

E. ALL DRAINAGE PIPING ABOVE GRADE SHALL BE CAST IRON W/ NO-HUB CONNECTIONS. ALL DRAINAGE PIPING BELOW GRADE SHALL BE CAST IRON W/ HUB AND SPIGOT CONNECTIONS. SLOPE ALL DRAINAGE PIPING AT 1/8" PER FOOT MINIMUM UNLESS NOTED OTHERWISE. ALL R.W.C.'S SHALL HAVE EXPANSION JOINTS LOCATED AT EVERY OTHER LEVEL. ALL PUMP DISCHARGE LINES SHALL BE TYPE "L" COPPER PIPE U.N.O.

F. TOP OF DRAIN GRATE SHALL BE 1/2" BELOW FINISHED FLOOR AT SUPPORTED TIERS AND 1" AT GROUND TIER. TYPICAL FOR ALL DRAINS. SEE STRUCTURAL DRAWINGS FOR FLOOR ELEVATIONS.

G. ALL PIPING AND RISERS EXPOSED TO POSSIBLE BUMPER DAMAGE SHALL BE PROTECTED W/ PIPE GUARDS. SEE DETAILS 1 & 2/PFP501.

H. PIPE HANGERS AND SUPPORTS SHALL BE ARRANGED SO THAT THEY WILL SUSTAIN THE LOADS AND RETAIN THE PIPING SECRUELY IN POSITION UNDER FULLY LOADED CONDITIONS. SEE DETAILS 3 & 4/PFP501.

I. CLEANOUTS SHALL BE LOCATED AT THE BASE OF ALL DRAINAGE RISERS AND AT OTHER LOCATIONS SHOWN ON THE DRAWINGS.

J. THE USE OF POWDER, GAS OR OTHER TYPE OF POWER PROPELLED FASTENERS IS PROHIBITED.

K. CONTRACTOR TO USE X-RAY TO DETERMINE PLACEMENT OR CONCRETE REINFORCEMENTS PRIOR TO CORING AREAS TO RUN NEW PLUMBING.

L. CONTRACTOR TO REFER TO SPECIFICATION SECTION 22 14 00 FOR STANDARD STORM PIPING TESTING.

(X) PLUMBING KEY NOTES

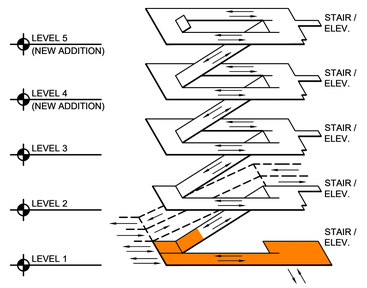
1. EXISTING UNDERFLOOR STORM PIPING TO REMAIN AS IS.
2. EXISTING RISER TO REMAIN AS IS.
3. PROVIDE ELEVATOR SUMP PIT AND ELEVATOR PUMP. REFER TO DETAIL SHEET 5/P501 FOR MORE INFORMATION.
4. TRENCH FLOOR AND ROUTE NEW 4"ST AS SHOWN.
5. (NOT USED)
6. EXTEND 2"PD AND EXTEND AND DISCHARGED TO FD-2. PROVIDE AIR GAP.
7. WALL MOUNTED HIGH WATER ALARM AND SENSOR PANEL INSTALLED IN THE ELEVATOR PIT LEVEL 0.
8. EXTEND 4" DRAIN TILE PIPING AND CONNECT TO CATCH BASIN. REFER TO CIVIL DRAWINGS FOR CONTINUATION AND 10/P501 FOR DRAIN TILE ABOVE FOOTING DETAIL.

1 PLUMBING - STORM PIPING PLAN - LEVEL 1

1/16"=1'-0"

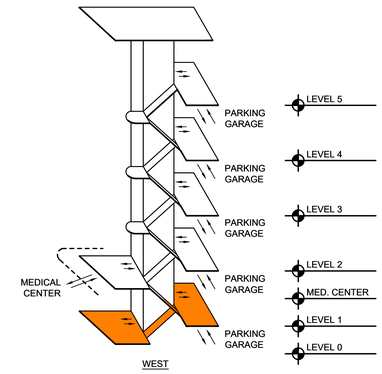
0 4' 8' 16' 32'

PARKING GARAGE



SOUTH

NEW STAIR / ELEVATOR TOWER



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ISSUE FOR BID	08-09-2024
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08-09-2024

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - STORM PIPING PLAN - LEVEL 1	Phase: ISSUE FOR BID	Project Title: PARKING RAMP EXPANSION	Project Number: 528-18-375
			Building Number: 29
Approved: Project Director		Location: 3495 BAILEY AVE., BUFFALO, NY 14215	Drawing Number: P101
		Issue Date: 08-09-2024 / Checked: RH / Drawn: HS	

VA FORM 08 - 6231

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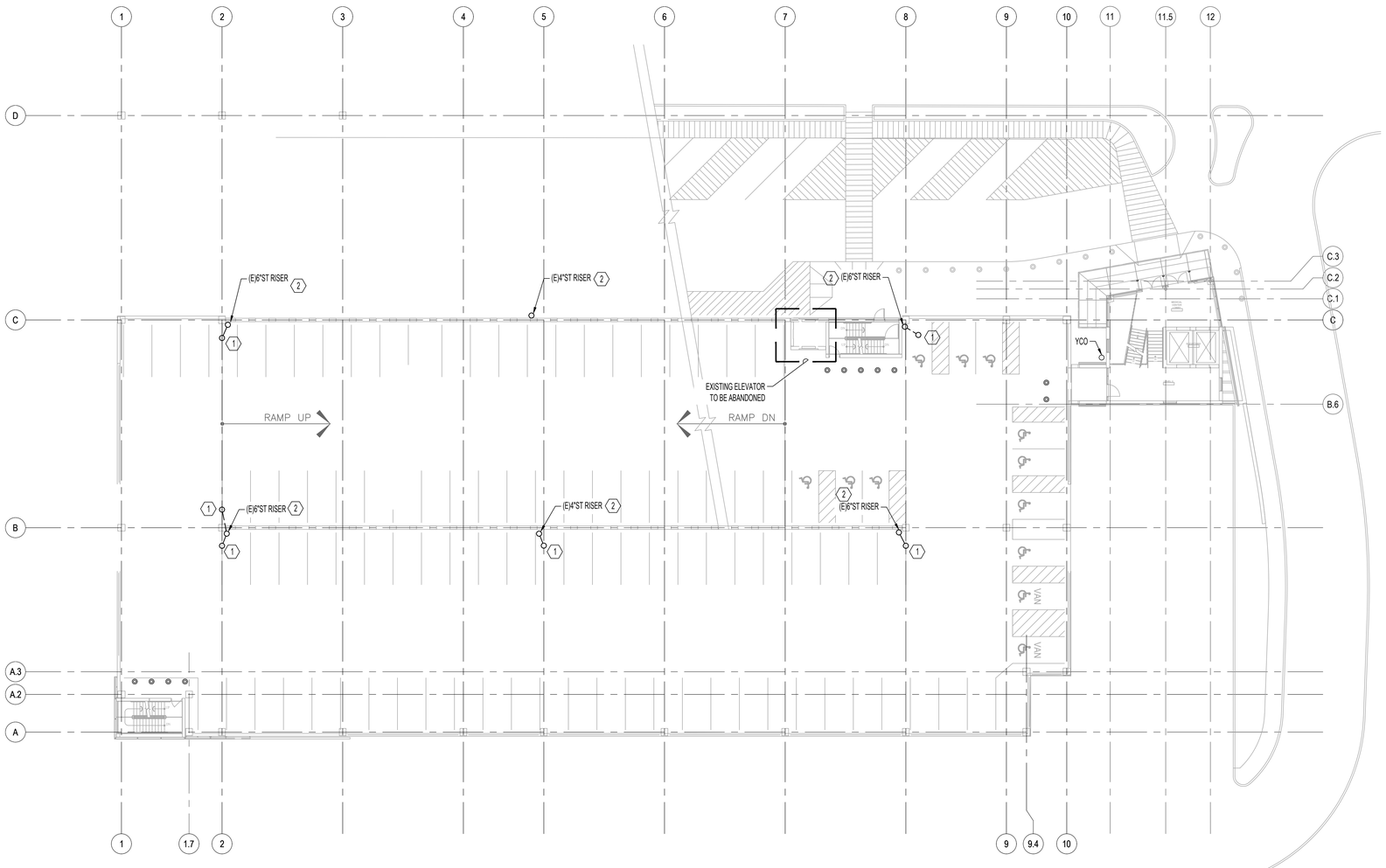


PLUMBING - STORM PIPING PLAN - LEVEL 2

1/16"=1'-0"

PLUMBING GENERAL NOTES

A. ALL SHUTDOWNS WILL REQUIRE A MINIMUM OF 30 DAYS ADVANCE NOTICE. COORDINATE ALL PLUMBING SERVICE OUTAGES/SHUTDOWNS WITH VA COR.

B. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.

C. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE TO ABOVE FLOOR FIXTURES DURING CONSTRUCTION IF NECESSARY.

D. CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING PIPING NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.

E. ALL DRAINAGE PIPING ABOVE GRADE SHALL BE CAST IRON W/ NO-HUB CONNECTIONS. ALL DRAINAGE PIPING BELOW GRADE SHALL BE CAST IRON W/ HUB AND SPIGOT CONNECTIONS. SLOPE ALL DRAINAGE PIPING AT 1/8" PER FOOT MINIMUM UNLESS NOTED OTHERWISE. ALL R.W.C.'S SHALL HAVE EXPANSION JOINTS LOCATED AT EVERY OTHER LEVEL. ALL PUMP DISCHARGE LINES SHALL BE TYPE "L" COPPER PIPE U.N.O.

F. TOP OF DRAIN GRATE SHALL BE 1/2" BELOW FINISHED FLOOR AT SUPPORTED TIERS AND 1" AT GROUND TIER. TYPICAL FOR ALL DRAINS. SEE STRUCTURAL DRAWINGS FOR FLOOR ELEVATIONS.

G. ALL PIPING AND RISERS EXPOSED TO POSSIBLE BUMPER DAMAGE SHALL BE PROTECTED W/ PIPE GUARDS. SEE DETAILS 1 & 2/PFP501.

H. PIPE HANGERS AND SUPPORTS SHALL BE ARRANGED SO THAT THEY WILL SUSTAIN THE LOADS AND RETAIN THE PIPING SECRUELY IN POSITION UNDER FULLY LOADED CONDITIONS. SEE DETAILS 3 & 4/PFP501.

I. CLEANOUTS SHALL BE LOCATED AT THE BASE OF ALL DRAINAGE RISERS AND AT OTHER LOCATIONS SHOWN ON THE DRAWINGS.

J. THE USE OF POWDER, GAS OR OTHER TYPE OF POWER PROPELLED FASTENERS IS PROHIBITED.

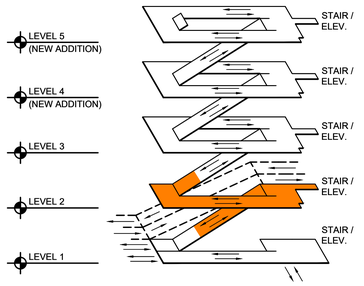
K. CONTRACTOR TO USE X-RAY TO DETERMINE PLACEMENT OR CONCRETE REINFORCEMENTS PRIOR TO CORING AREAS TO RUN NEW PLUMBING.

L. CONTRACTOR TO REFER TO SPECIFICATION SECTION 22 14 00 FOR STANDARD STORM PIPING TESTING.

PLUMBING KEY NOTES

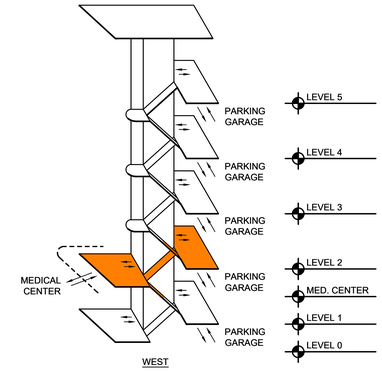
1. EXISTING FLOOR DRAIN TO REMAIN AS IS.
2. EXISTING RISER TO REMAIN AS IS.

PARKING GARAGE



SOUTH

NEW STAIR / ELEVATOR TOWER



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08-09-2024

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - STORM PIPING PLAN - LEVEL 2	Phase: ISSUE FOR BID	Project Title: PARKING RAMP EXPANSION	Project Number: 528-18-375
Approved: Project Director			Building Number: 29
		Location: 3495 BAILEY AVE., BUFFALO, NY 14215	Drawing Number: P102
		Issue Date: 08-09-2024 / Checked: RH / Drawn: HS	

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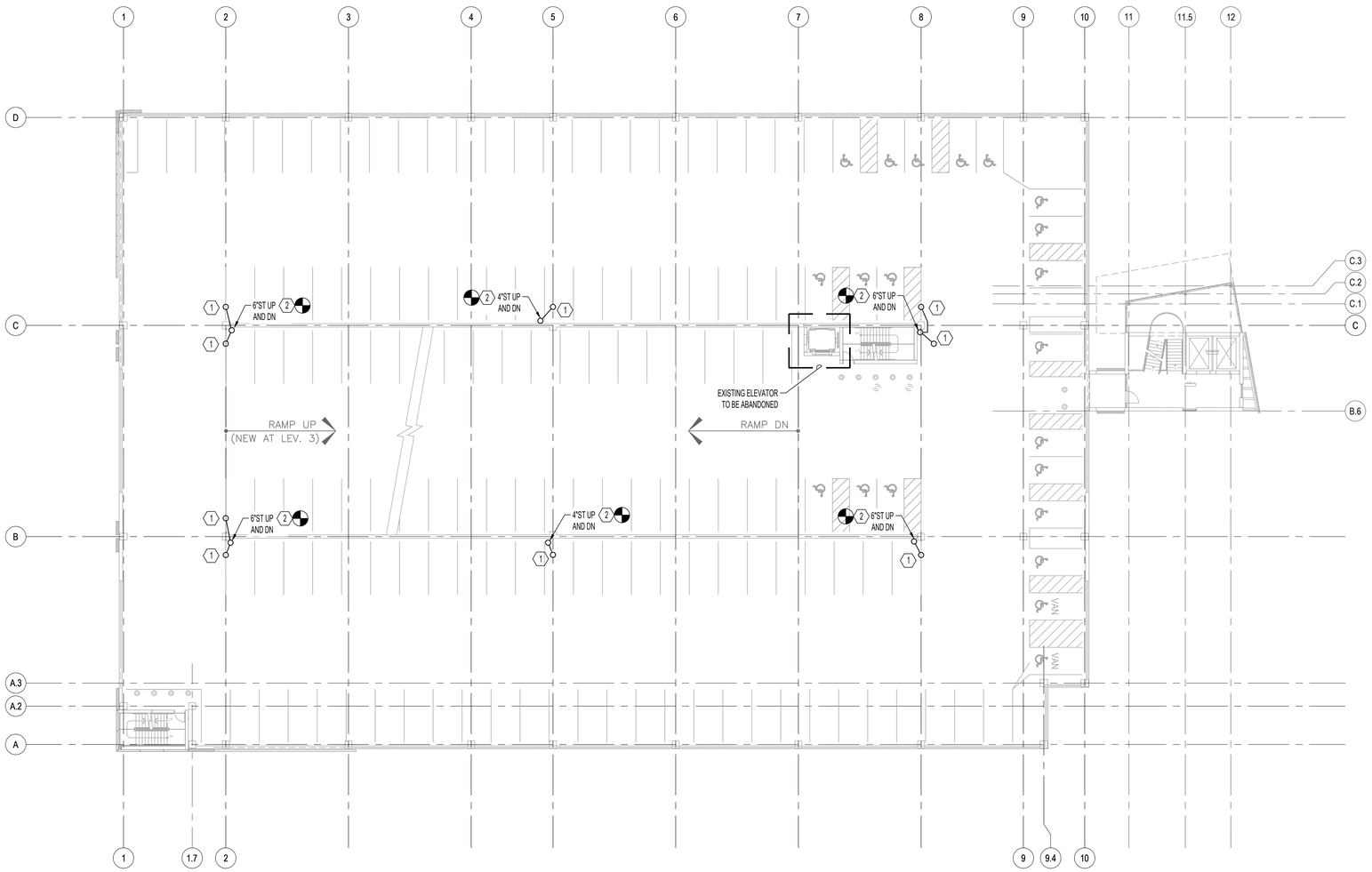


N

1 PLUMBING - STORM PIPING PLAN - LEVEL 3

1/16"=1'-0"

0 4' 8' 16' 32'

PLUMBING GENERAL NOTES

A. ALL SHUTDOWNS WILL REQUIRE A MINIMUM OF 30 DAYS ADVANCE NOTICE. COORDINATE ALL PLUMBING SERVICE OUTAGES/SHUTDOWNS WITH VA COR.

B. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.

C. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE TO ABOVE FLOOR FIXTURES DURING CONSTRUCTION IF NECESSARY.

D. CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING PIPING NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.

E. ALL DRAINAGE PIPING ABOVE GRADE SHALL BE CAST IRON W/ NO-HUB CONNECTIONS. ALL DRAINAGE PIPING BELOW GRADE SHALL BE CAST IRON W/ HUB AND SPIGOT CONNECTIONS. SLOPE ALL DRAINAGE PIPING AT 1/8" PER FOOT MINIMUM UNLESS NOTED OTHERWISE. ALL R.W.C.'S SHALL HAVE EXPANSION JOINTS LOCATED AT EVERY OTHER LEVEL. ALL PUMP DISCHARGE LINES SHALL BE TYPE "L" COPPER PIPE U.N.O.

F. TOP OF DRAIN GRATE SHALL BE 1/2" BELOW FINISHED FLOOR AT SUPPORTED TIERS AND 1" AT GROUND TIER. TYPICAL FOR ALL DRAINS. SEE STRUCTURAL DRAWINGS FOR FLOOR ELEVATIONS.

G. ALL PIPING AND RISERS EXPOSED TO POSSIBLE BUMPER DAMAGE SHALL BE PROTECTED W/ PIPE GUARDS. SEE DETAILS 1 & 2/PFP501.

H. PIPE HANGERS AND SUPPORTS SHALL BE ARRANGED SO THAT THEY WILL SUSTAIN THE LOADS AND RETAIN THE PIPING SECRUELY IN POSITION UNDER FULLY LOADED CONDITIONS. SEE DETAILS 3 & 4/PFP501.

I. CLEANOUTS SHALL BE LOCATED AT THE BASE OF ALL DRAINAGE RISERS AND AT OTHER LOCATIONS SHOWN ON THE DRAWINGS.

J. THE USE OF POWDER, GAS OR OTHER TYPE OF POWER PROPELLED FASTENERS IS PROHIBITED.

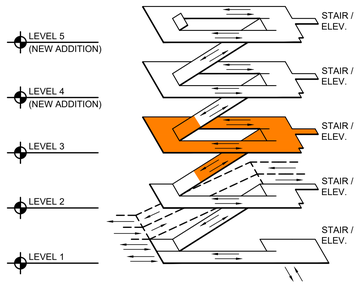
K. CONTRACTOR TO USE X-RAY TO DETERMINE PLACEMENT OF CONCRETE REINFORCEMENTS PRIOR TO CORING AREAS TO RUN NEW PLUMBING.

L. CONTRACTOR TO REFER TO SPECIFICATION SECTION 22 14 00 FOR STANDARD STORM PIPING TESTING.

(X) PLUMBING KEY NOTES

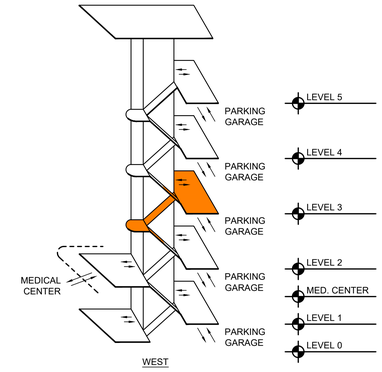
1. EXISTING FLOOR DRAIN TO REMAIN AS IS.
2. UNPLUG STORM RISER PIPE PLUG AND PIPE SLEEVE PLUG AND CONNECT NEW STORM RISER PIPING. EXTEND STORM RISERS UP THROUGH FLOORS ABOVE. REFER TO SHEETS 1/P501 AND 2/P501 FOR PIPE GUARD DETAIL.

PARKING GARAGE



SOUTH

NEW STAIR / ELEVATOR TOWER



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08-09-2024

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - STORM PIPING PLAN - LEVEL 3	Phase: ISSUE FOR BID	Project Title: PARKING RAMP EXPANSION	Project Number: 528-18-375
Approved: Project Director			Building Number: 29
		Location: 3495 BAILEY AVE., BUFFALO, NY 14215	Drawing Number: P103
		Issue Date: 08-09-2024 / Checked: RH / Drawn: HS	

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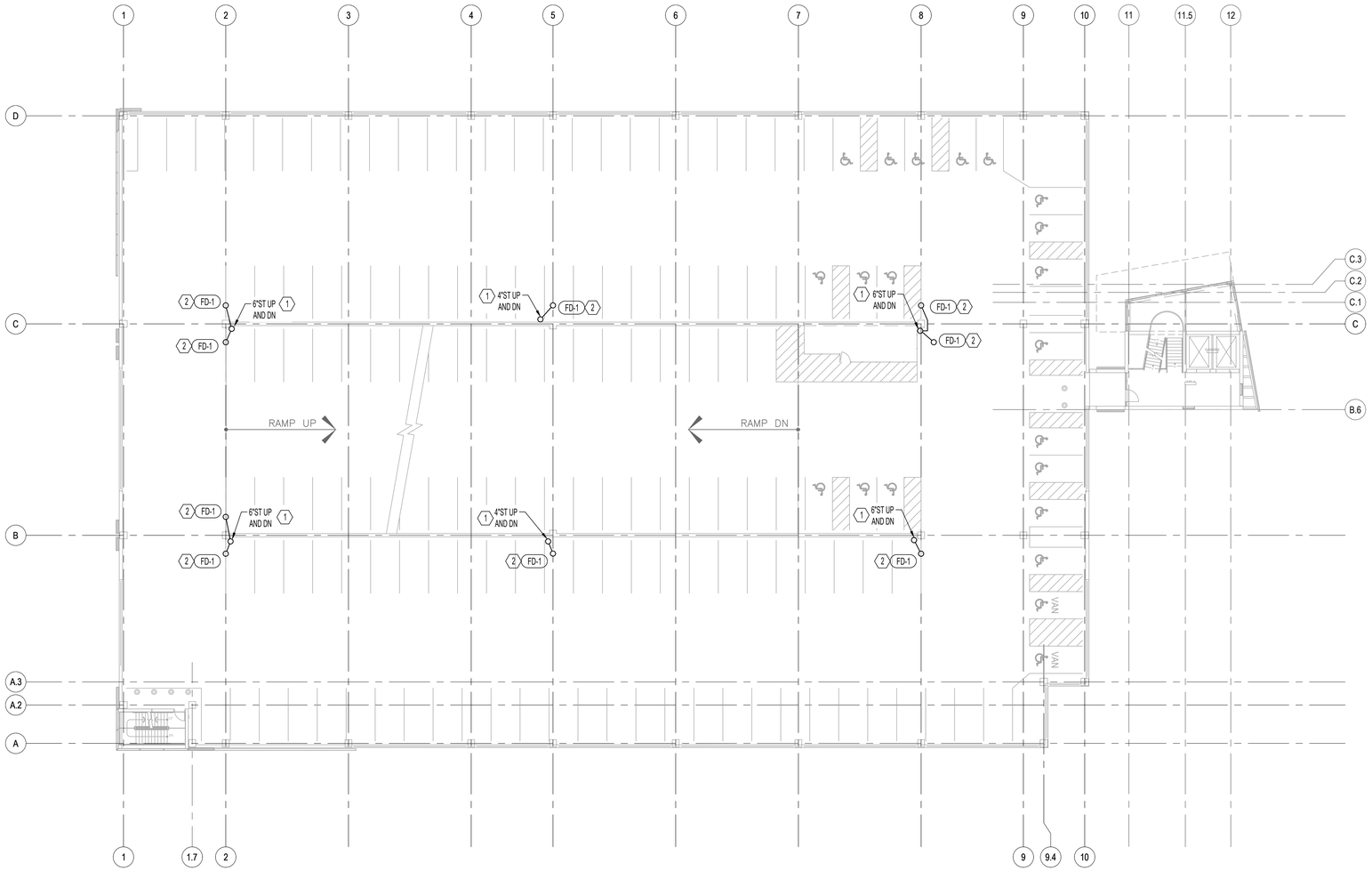


1 PLUMBING - STORM PIPING PLAN - LEVEL 4

1/16"=1'-0"

PLUMBING GENERAL NOTES

A. ALL SHUTDOWNS WILL REQUIRE A MINIMUM OF 30 DAYS ADVANCE NOTICE. COORDINATE ALL PLUMBING SERVICE OUTAGES/SHUTDOWNS WITH VA COR.

B. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.

C. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE TO ABOVE FLOOR FIXTURES DURING CONSTRUCTION IF NECESSARY.

D. CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING PIPING NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.

E. ALL DRAINAGE PIPING ABOVE GRADE SHALL BE CAST IRON W/ NO-HUB CONNECTIONS. ALL DRAINAGE PIPING BELOW GRADE SHALL BE CAST IRON W/ HUB AND SPIGOT CONNECTIONS. SLOPE ALL DRAINAGE PIPING AT 1/8" PER FOOT MINIMUM UNLESS NOTED OTHERWISE. ALL R.W.C.'S SHALL HAVE EXPANSION JOINTS LOCATED AT EVERY OTHER LEVEL. ALL PUMP DISCHARGE LINES SHALL BE TYPE "L" COPPER PIPE U.N.O.

F. TOP OF DRAIN GRATE SHALL BE 1/2" BELOW FINISHED FLOOR AT SUPPORTED TIERS AND 1" AT GROUND TIER. TYPICAL FOR ALL DRAINS. SEE STRUCTURAL DRAWINGS FOR FLOOR ELEVATIONS.

G. ALL PIPING AND RISERS EXPOSED TO POSSIBLE BUMPER DAMAGE SHALL BE PROTECTED W/ PIPE GUARDS. SEE DETAILS 1 & 2/PFP501.

H. PIPE HANGERS AND SUPPORTS SHALL BE ARRANGED SO THAT THEY WILL SUSTAIN THE LOADS AND RETAIN THE PIPING SECRUELY IN POSITION UNDER FULLY LOADED CONDITIONS. SEE DETAILS 3 & 4/PFP501.

I. CLEANOUTS SHALL BE LOCATED AT THE BASE OF ALL DRAINAGE RISERS AND AT OTHER LOCATIONS SHOWN ON THE DRAWINGS.

J. THE USE OF POWDER, GAS OR OTHER TYPE OF POWER PROPELLED FASTENERS IS PROHIBITED.

K. CONTRACTOR TO USE X-RAY TO DETERMINE PLACEMENT OF CONCRETE REINFORCEMENTS PRIOR TO CORING AREAS TO RUN NEW PLUMBING.

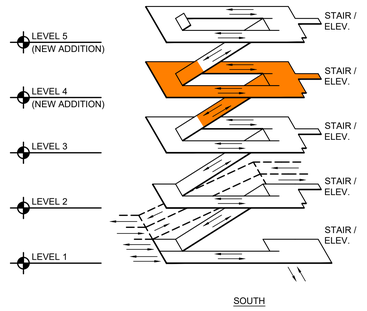
L. CONTRACTOR TO REFER TO SPECIFICATION SECTION 22 14 00 FOR STANDARD STORM PIPING TESTING.

(X) PLUMBING KEY NOTES

1. CONNECT NEW STORM RISER PIPING. EXTEND STORM RISER UP AND CAP BELOW CEILING. REFER TO 6/P501 FOR TOP TIER DRAINAGE DETAIL FOR MORE INFORMATION. REFER TO SHEETS 1/P501 AND 2/P501 FOR PIPE GAURD DETAIL.

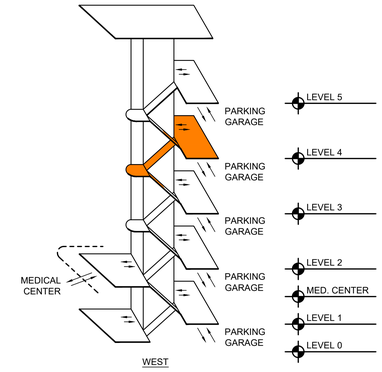
2. EXTEND STORM PIPING FROM FLOOR BELOW AND CONNECT TO FLOOR DRAIN.

PARKING GARAGE



SOUTH

NEW STAIR / ELEVATOR TOWER



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08-09-2024

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VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING-STORM PIPING PLAN - LEVEL 4	Phase: ISSUE FOR BID	Project Title: PARKING RAMP EXPANSION	Project Number: 528-18-375
			Building Number: 29
Approved: Project Director		Location: 3495 BAILEY AVE., BUFFALO, NY 14215	Drawing Number: P104
		Issue Date: 08-09-2024 / Checked: RH / Drawn: HS	

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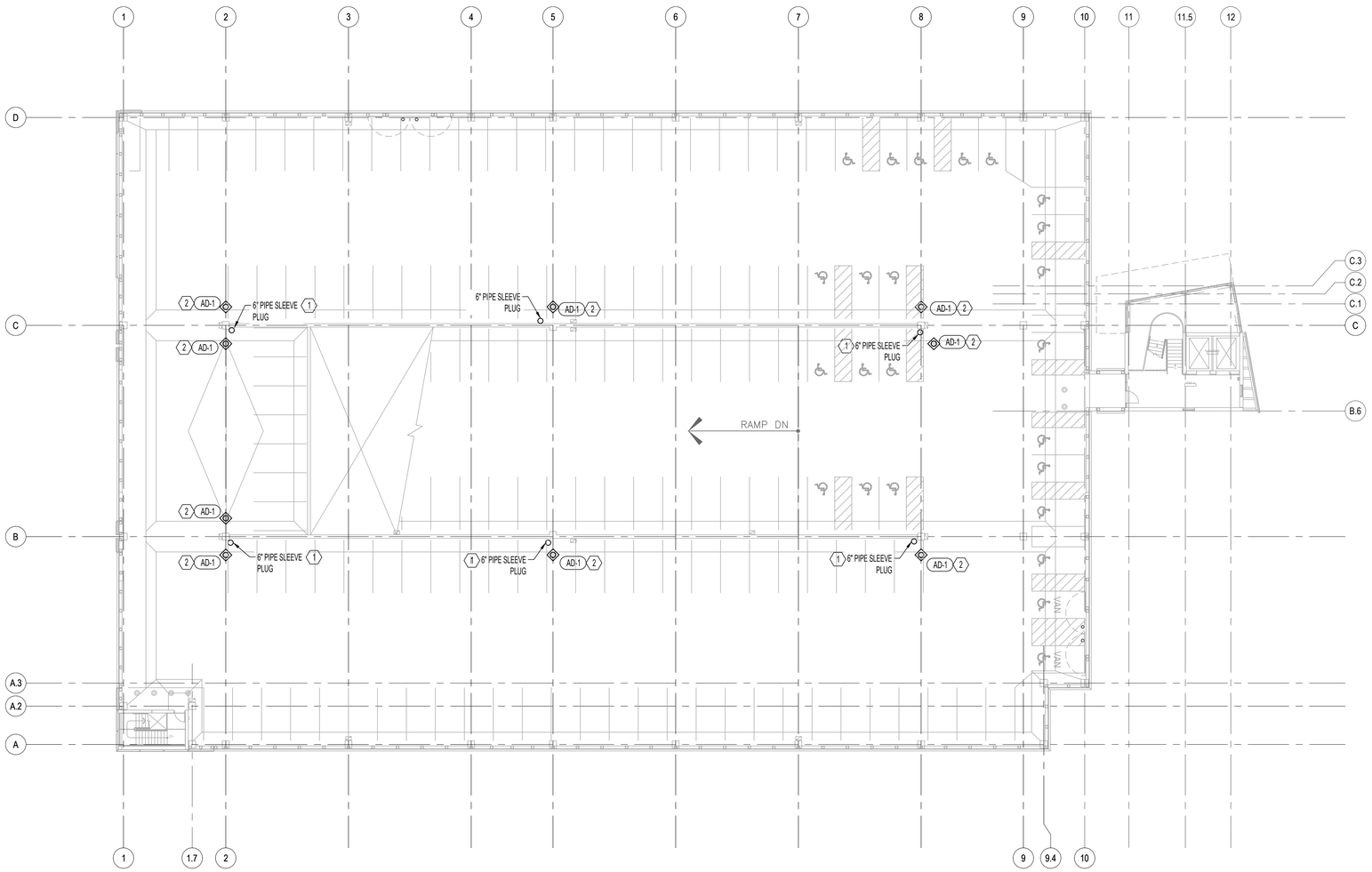

1 PLUMBING - STORM PIPING PLAN - LEVEL 5

1/16"=1'-0"

0 4" 8" 16" 32"

PLUMBING GENERAL NOTES

A. ALL SHUTDOWNS WILL REQUIRE A MINIMUM OF 30 DAYS ADVANCE NOTICE. COORDINATE ALL PLUMBING SERVICE OUTAGES/SHUTDOWNS WITH VA COR.

B. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.

C. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE TO ABOVE FLOOR FIXTURES DURING CONSTRUCTION IF NECESSARY.

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E. ALL DRAINAGE PIPING ABOVE GRADE SHALL BE CAST IRON W/ NO-HUB CONNECTIONS. ALL DRAINAGE PIPING BELOW GRADE SHALL BE CAST IRON W/ HUB AND SPIGOT CONNECTIONS. SLOPE ALL DRAINAGE PIPING AT 1/8" PER FOOT MINIMUM UNLESS NOTED OTHERWISE. ALL R.W.C.'S SHALL HAVE EXPANSION JOINTS LOCATED AT EVERY OTHER LEVEL. ALL PUMP DISCHARGE LINES SHALL BE TYPE "L" COPPER PIPE U.N.O.

F. TOP OF DRAIN GRATE SHALL BE 1/2" BELOW FINISHED FLOOR AT SUPPORTED TIERS AND 1" AT GROUND TIER. TYPICAL FOR ALL DRAINS. SEE STRUCTURAL DRAWINGS FOR FLOOR ELEVATIONS.

G. ALL PIPING AND RISERS EXPOSED TO POSSIBLE BUMPER DAMAGE SHALL BE PROTECTED W/ PIPE GUARDS. SEE DETAILS 1 & 2/PFP501.

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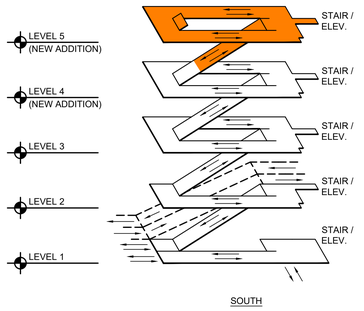
L. CONTRACTOR TO REFER TO SPECIFICATION SECTION 22 14 00 FOR STANDARD STORM PIPING TESTING.

(X) PLUMBING KEY NOTES

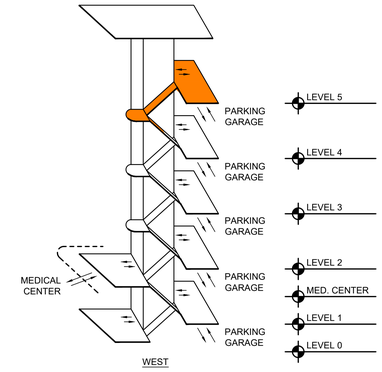
1. PIPE SLEEVE PLUG. REFER TO 6/P501 FOR TOP TIER DRAINAGE DETAIL FOR MORE INFORMATION.
2. EXTEND STORM PIPING FROM FLOOR BELOW AND CONNECT TO AREA DRAIN.

PARKING GARAGE



SOUTH

NEW STAIR / ELEVATOR TOWER



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08-09-2024

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - STORM PIPING PLAN - LEVEL 5	Phase: ISSUE FOR BID	Project Title: PARKING RAMP EXPANSION	Project Number: 528-18-375
Approved: Project Director			Building Number: 29
		Location: 3495 BAILEY AVE., BUFFALO, NY 14215	Drawing Number: P105
		Issue Date: 08-09-2024 / Checked: RH / Drawn: HS	

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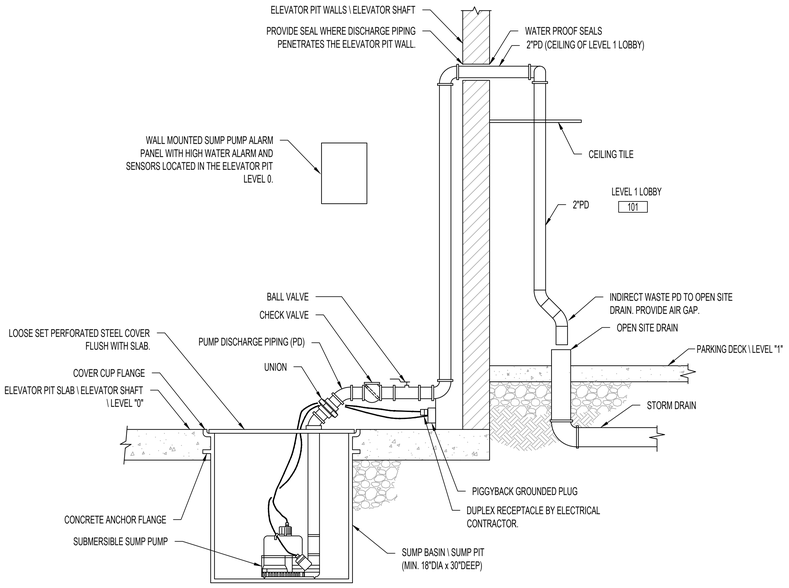

5 ELEVATOR PIT SUBMERSIBLE PUMP DETAIL
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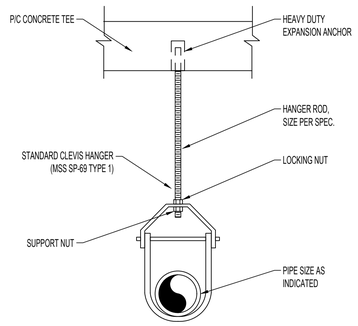
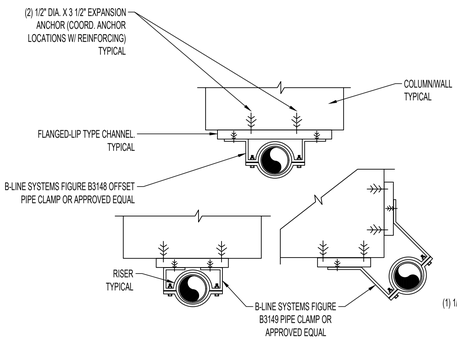
NOTE: COORDINATE SUMP LOCATION WITH ELEVATOR BUFFERS.



HANGER ROD TABLE FOR CAST IRON PIPING		
NOMINAL PIPE SIZE	HORIZONTAL SPACING	ROD DIAMETER
1 1/2"	60"	3/8"
3"	60"	1/2"
4" TO 5"	60"	5/8"
6" TO 8"	60"	3/4"
10" TO 12"	60"	7/8"

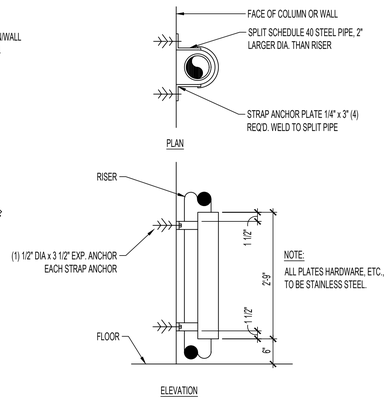
NOTES:
1. PIPE SUPPORTS SHALL BE SHOP COATED WITH ZINC CHROMATE PRIMER PAINT. ELECTROPLATED COPPER HANGER RODS, HANGERS AND ACCESSORIES MYA BE USED IN COPPER TUBING.
2. HORIZONTAL PIPING AND TUBING SHALL BE SUPPORTED WITHIN 0-12" OF EACH FITTING OR COUPLING.
3. MAXIMUM SUPPORT SPACING FOR HORIZONTAL PLASTIC SHALL BE 4'-0".
4. VERTICAL PIPING AND TUBING SHALL BE SUPPORTED AT THE BASE, AT EACH FLOOR, AND AT INTERVALS NO GREATER THAN 15'0".
5. HANGER RODS SHALL BE LOW CARBON STEEL, FULLY THREADED OR THREADED AT EACH END WITH TWO REMOVABLE NUTS AT EACH END FOR POSITIONING ROD AND HANGER AND LOCKING IN PLACE.

4 PIPE HANGER DETAIL
N.T.S.



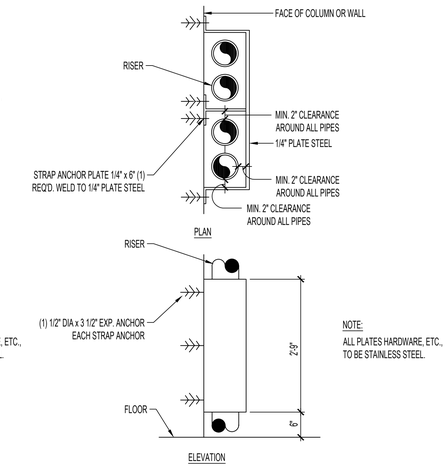
NOTES:
1. IF ADDITIONAL DISTANCE FROM COLUMN OR WALL IS REQUIRED OR IF RISER IS MOUNTED AT EDGE OF COLUMN, USE B-LINE SYSTEMS FIGURE B3149 CLAMP OR APPROVED EQUAL. BEND AND DRILL HOLES IN LEGS AS REQUIRED.
2. CHANNEL OR CLAMP ARE NOT TO EXTEND PAST EDGE OF COLUMN OR WALL. IF OUTSIDE DIMENSION OF CLAMP IS GREATER THAN THHICKNESS OF WALL OR COLUMN, USE A B-LINE SYSTEMS FIGURE B3149 HANGER OR APPROVED EQUIAL, BEND LEGS INWARD AND DRILL HOLES AS REQUIRED.
3. ALL MATERIALS AND HARDWARE SHALL BE STAINLESS STEEL NO SUBSTITUTE.
4. SPECIFY TYPE OF PIPE FOR SIZING PIPE CLAMPS.

3 PIPE SUPPORT DETAIL
N.T.S.



NOTE:
ALL PLATES HARDWARE, ETC., TO BE STAINLESS STEEL.

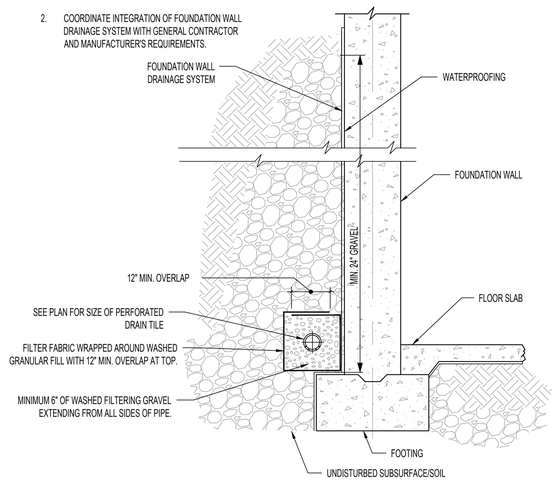
2 PIPE GUARD DETAIL
N.T.S.



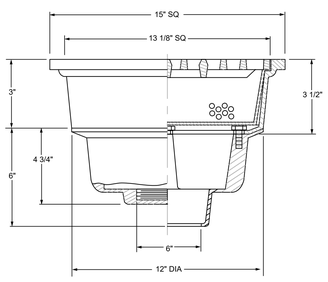
NOTE:
ALL PLATES HARDWARE, ETC., TO BE STAINLESS STEEL.

1 MULTIPLE RISER PIPE GUARD DETAIL
N.T.S.

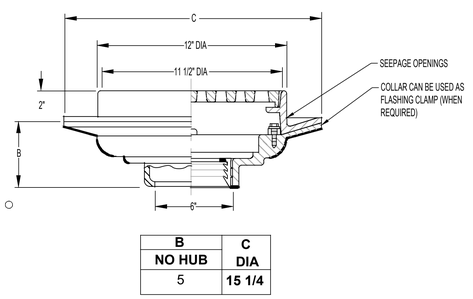
NOTES:
1. PROVIDE MINIMUM PITCH FOR ALL DRAINTILE PIPING.
2. COORDINATE INTEGRATION OF FOUNDATION WALL DRAINAGE SYSTEM WITH GENERAL CONTRACTOR AND MANUFACTURER'S REQUIREMENTS.



10 TYPICAL DRAINTILE ON TOP OF FOOTING DETAIL
NTS

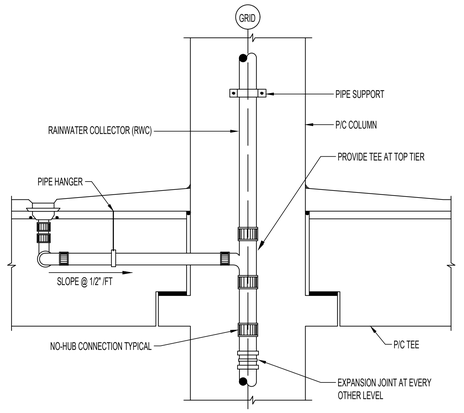


9 TYPICAL AREA DRAIN DETAIL
N.T.S.

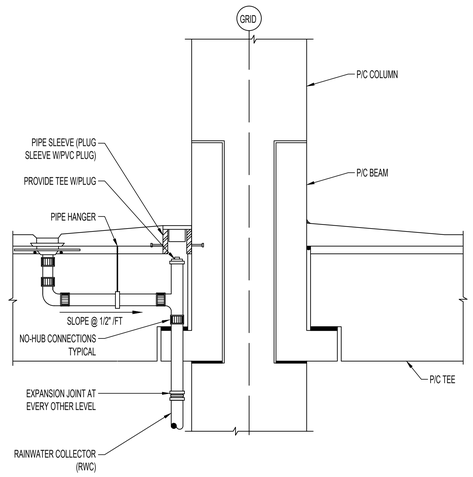


B	C
NO HUB	DIA
5	15 1/4

8 TYPICAL FLOOR DRAIN DETAIL
N.T.S.



7 TYPICAL DRAINAGE DETAIL FOR SUPPORTED SLAB
N.T.S.



6 TOP TIER DRAINAGE DETAIL
N.T.S.

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VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING DETAILS	Phase: ISSUE FOR BID	Project Title: PARKING RAMP EXPANSION	Project Number: 528-18-375
			Building Number: 29
Approved: Project Director		Location: 3495 BAILEY AVE., BUFFALO, NY 14215	Drawing Number: P501
		Issue Date: 08-09-2024 / Checked: RH / Drawn: HS	

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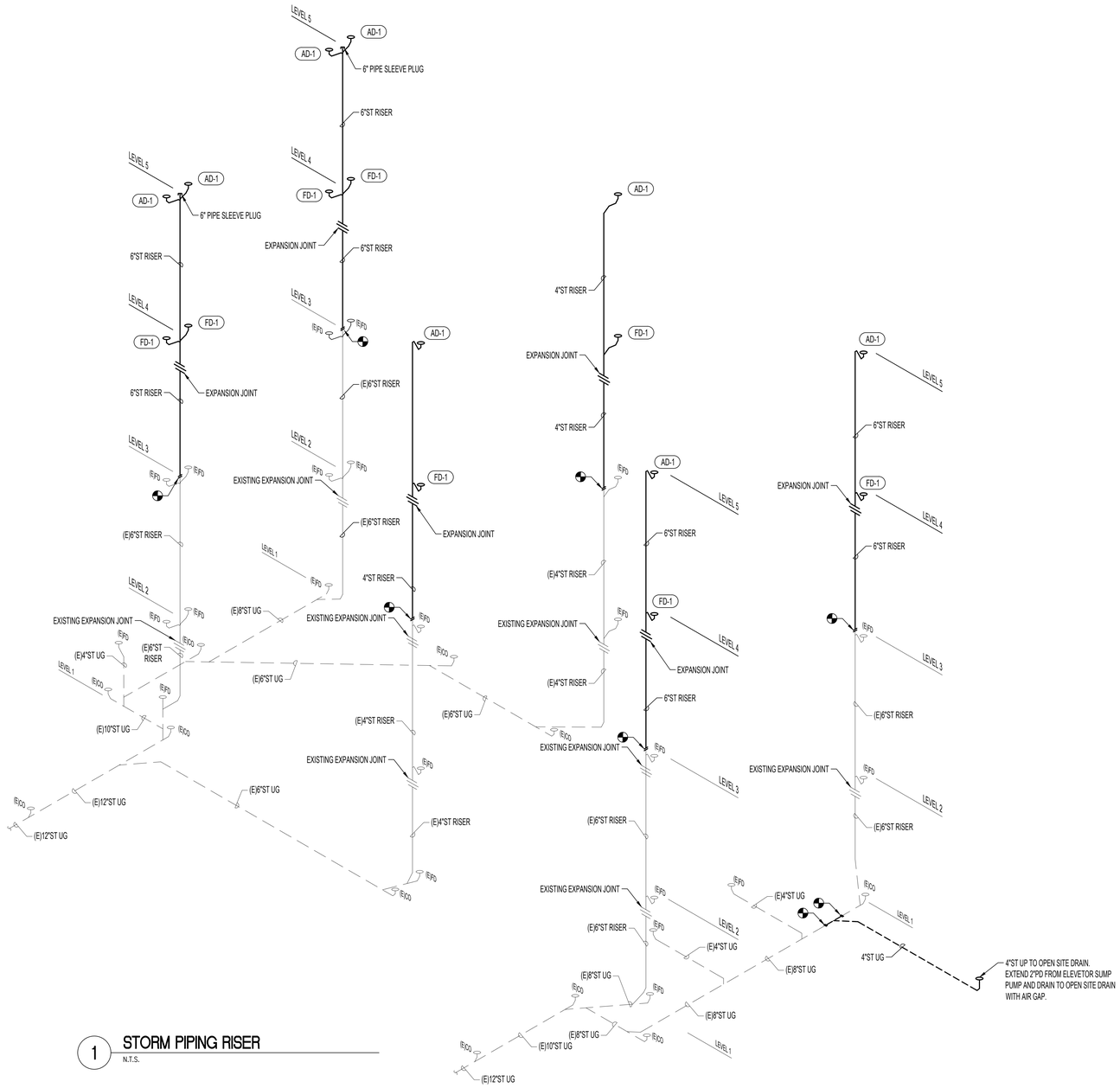

1 STORM PIPING RISER
N.T.S.

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING- STORM PIPING RISERS

Approved: Project Director

Phase: ISSUE FOR BID

Project Title: PARKING RAMP EXPANSION

Location: 3495 BAILEY AVE., BUFFALO, NY 14215

Issue Date: 08-09-2024 | Checked: RH | Drawn: HS

Project Number: 528-18-375

Building Number: 29

Drawing Number: P601

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PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	STORM	REMARKS
FD-1	PARKING DRAINS	JR SMITH	2140C-U-M-B (+2646Y) OR APPROVED EQUAL	4"	HEAVY DUTY CAST IRON DECK DRAIN WITH VANDAL PROOF DUCTILE IRON GRATE, SEDIMENT BUCKET & NO-HUB ADAPTOR (MIN. GRATE FREE AREA OF 26 SQ. IN.)
FD-2	FLOOR DRAIN	ZURN	Z45-BZ1-DP OR APPROVED EQUAL.	4"	MEDIUM DUTY (NOT TRAFFIC) FLOOR DRAIN SHALL COMPLY WITH ASME A112.6.3. TYPE FLOOR C FLOOR DRAIN SHALL HAVE A CAST IRON BODY DOUBLE DRAINAGE PATTERN, CLAMPING DEVICE, LIGHT DUTY NICKLE BRONZE ADJUSTABLE STRAINER WITH ROUND OR SQUARE GRATE OF 6" WIDTH OR DIAMETER MINIMUM. ZURN #Z415-BZ1-DP OR APPROVED EQUAL.
AD-1	AREA DRAIN	ZURN	Z537 OR APPROVED EQUAL	4" - 6" TO MATCH RISER	HEAVY DUTY PARKING DECK DRAIN, 15-7/8" SQUARE TOP, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, HEAVY-DUTY GASKETED DRAIN SUPPORT FLANGE, VANDAL-PROOF SECURED TOP WITH HEAVY-DURY SLOTTED DUCTILE IRON GRATE.

NOTES:
1. SIZES LISTED ARE MINIMUM CONNECTIONS REQUIRED TO FIXTURES.

ELEVATOR SUMP PUMP SCHEDULE

MARK	LOCATION	GPM	PUMP HEAD (ft)	DISCHARGE SIZE (in)	MIN. BASIN SIZE (IN)	HP	RPM	ELECTRICAL DATA			MANUFACTURER	MODEL
								HZ	VOLT	PHASE		
SP-1	ELEVATOR PIT	50	18	2	18"DIA x 30" DEEP	1/2	1750	60	115	1	WEIL	1411

REMARKS:
1. HEAVY DUTY PUMP, CAST IRON CASE, CAST IRON IMPELLER, STAINLESS HARDWARE AND STRAINER. PUMP CLEAR AND GREY WATER WITH SOLIDS.
2. POWER CORD LENGTH - 15 ft WITH 3 CONDUCTOR GROUNDED PLUG.
3. PROVIDE WITH WALL MOUNTED HIGH WATER ALARM AND SENSOR PANEL. PROVIDE WITH 8200 SERIES PIGGY BACK FLOAT.
4. BASIN - FIBERGLASS CONSTRUCTION, ANCHOR FLANGE, CAST IRON OR STEEL PERFORATED COVER WITH OPENING FOR PUMP ACCESS.

PLUMBING PIPING MATERIALS

SYSTEM	MATERIAL	JOINING METHOD	FITTINGS	REMARKS
STORM DRAINAGE (ABOVE GROUND)	CAST IRON; CISPI 301	S.S. CLAMP AND SHIELD	CAST IRON (HUBLESS)	1" MINERAL FIBER w/ VAPOR BARRIER: R-VALUE - 3.7
STORM DRAINAGE (UNDERGROUND)	PVC; ASTM D2665 (NO CELLULAR FOAM CORE)	SOLVENT WELD	PVC	NONE

NOTES:
1. ABOVE MATERIALS TABLE SHOWS BASIC INFORMATION REGARDING THE MATERIALS USED. SEE SPECIFICATIONS FOR DETAILS.

2. INSULATION SHALL MEET THE IECC-2012 AND ASHRAE 90.1-2010 REQUIREMENTS FOR THICKNESS AND R-VALUE

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Approved: Project Director

Phase: ISSUE FOR BID

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Location: 3495 BAILEY AVE., BUFFALO, NY 14215

Issue Date: 08-09-2024 | Checked: RH | Drawn: HS

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