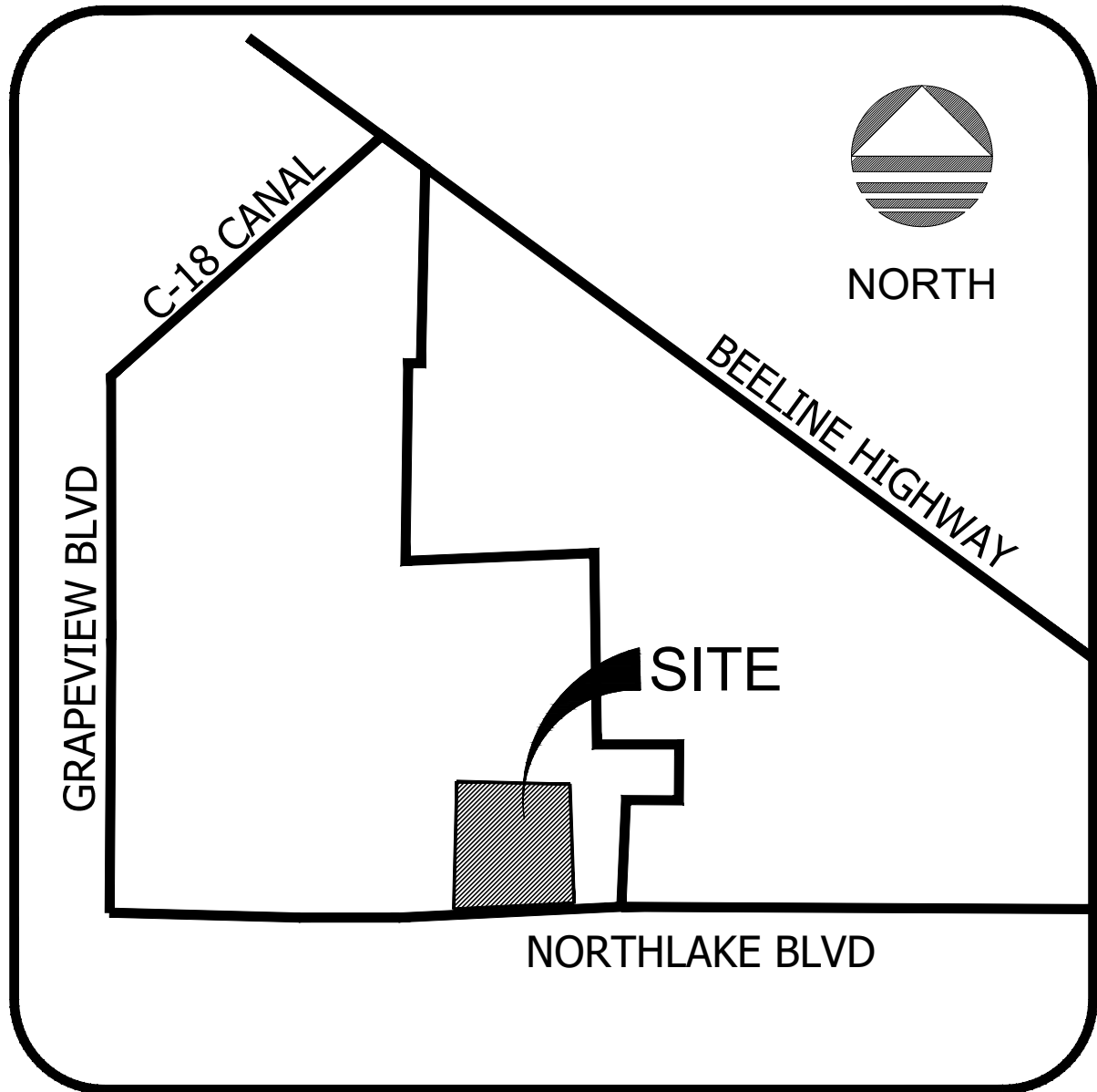


Wednesday, May 8, 2024 10:53:22 AM
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GENERAL CONTRACT CONDITIONS

- INCORPORATED AS A PART OF THE GENERAL SPECIFICATIONS AND REQUIREMENTS FOR THIS PROJECT ARE THE RELEVANT CRITERIA INCLUDED IN THE LATEST REVISION OF THE FOLLOWING ITEMS:
FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN PLANS, LATEST EDITION.
CITY OF PALM BEACH GARDENS LAND DEVELOPMENT CODE.
SEACOAST UTILITY AUTHORITY MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS.
ALL CONDITIONS AND/OR REQUIREMENTS RELATED TO THE CONSTRUCTION ACTIVITIES AS SET IN THE SITE DEVELOPMENT PERMITS.
THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THESE ITEMS. ANY COSTS ASSOCIATED WITH COMPLIANCE IS INCLUDED IN THE UNIT PRICES.
- AT NO ADDITIONAL COST TO THE OWNER, THE CONTRACTOR SHALL PROVIDE ACCESS AND ALLOW FOR COORDINATION SERVICES TO ACCOMMODATE UTILITIES, CONDUIT AND/OR SLEEVE CONSTRUCTION BY OTHERS. ANY UTILITIES, CONDUITS AND/OR SLEEVES INSTALLED BY OTHERS AND DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- IF REQUIRED BY OWNER OR GOVERNMENTAL AGENCY HAVING JURISDICTION OVER AFFECTED ROADWAYS, THE CONTRACTOR WILL PROVIDE, AS PART OF HIS BASE BID FOR PAVEMENT SYSTEMS, A MAINTENANCE OF TRAFFIC PLAN. ALSO INCLUDED WILL BE THE LABOR, EQUIPMENT AND MATERIALS REQUIRED TO IMPLEMENT THAT PLAN. ALL WORK MUST BE DONE IN ACCORDANCE WITH AGENCY REQUIREMENTS AND ANY REQUIRED PERMITS OR APPROVALS MUST BE APPLIED FOR AND OBTAINED BY THE CONTRACTOR.
- TESTING OF CONSTRUCTION MATERIALS AND/OR CONSTRUCTED FACILITIES WILL BE REQUIRED AS OUTLINED IN THE GOVERNING SPECIFICATIONS AS NECESSARY TO MEET THE REQUIREMENTS OF THE PERMITTING/APPROVING AGENCIES. ALL TESTING IS TO BE DONE BY A FLORIDA LICENSED TESTING LABORATORY AND THE COST OF THESE TESTS IS INCLUDED IN THE CONTRACTOR'S UNIT PRICES.
- FIELD REVIEWS OF CONSTRUCTED FACILITIES WILL BE REQUIRED DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR IS TO NOTIFY THE ENGINEER A MINIMUM OF 24 HOURS PRIOR TO THE REQUESTED TIME FOR REVIEW OF THE COMPLETED ITEMS. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS NEEDED TO ACCOMMODATE THE FIELD REVIEW. THESE REVIEWS INCLUDE BUT ARE NOT LIMITED TO:
PIPE AND STRUCTURE REVIEW
PRESSURE AND LEAKAGE TESTING OF WATER AND FORCE MAINS
SUB-GRADE REVIEW
CURB REVIEWS
BASE REVIEWS
LAMPING AND TELESPECTION OF SANITARY SEWER SYSTEM
PUMP DOWN AND LAMPING OF STORM DRAINAGE SYSTEM
SEMI-FINAL AND FINAL REVIEWS
FACILITIES MUST BE COMPLETED PRIOR TO SCHEDULING FIELD REVIEW. IF A FIELD REVIEW FAILS TO MEET THE AGENCY REQUIREMENTS AND AN ADDITIONAL REVIEW IS REQUIRED, THE CONTRACTOR WILL BE RESPONSIBLE TO PAY ANY FEES ASSOCIATED WITH THE ADDITIONAL REVIEW.
- NO SEPARATE PAYMENT SHALL BE PROVIDED TO THE CONTRACTOR FOR EARTHWORK ASSOCIATED WITH THIS CONTRACT. ALL COSTS ASSOCIATED WITH SITE PREPARATION NECESSARY TO EXECUTE THE WORK SET FORTH IN THE CONTRACT SHALL BE INCLUDED IN THE ITEMS PROVIDED FOR IN THE UNIT PRICE BID SCHEDULE. ANY EXCESS MATERIAL REMAINING UPON COMPLETION OF CONSTRUCTION SHALL BE REMOVED TO AN ACCEPTABLE LOCATION AT THE EXPENSE OF THE CONTRACTOR. AT THE OWNER'S OPTION HE MAY IDENTIFY A LOCATION FOR THIS MATERIAL TO BE STOCK PILED OR INSTRUCT THE CONTRACTOR TO REMOVE THE EXCESS TO A LEGAL DISPOSAL SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL GRADING OF THE SITE TO WITHIN 0.2 ± FOOT OF ALL THE PROPOSED FINISHED GRADE ELEVATIONS THROUGHOUT THE PROJECT SITE AS DEPICTED ON THE PLANS PREPARED BY THE ENGINEER. ELEVATIONS OF CONSTRUCTED FACILITIES, IE ROADWAYS, DRAINAGE, ETC. ARE TO BE AS INDICATED ON THE PLANS.
- EXISTING UTILITIES, ROADWAY AND DRAINAGE FACILITIES ARE LOCATED AND IDENTIFIED BASED ON THE AVAILABLE INFORMATION. THE CONTRACTOR IS TO VERIFY THIS INFORMATION WHERE NECESSARY FOR PROPOSED CONSTRUCTION. ALL COSTS ASSOCIATED WITH VERIFICATION, PROTECTION OF EXISTING SYSTEMS OR CONNECTION TO THOSE ITEMS AS CALLED FOR ON THE PLANS IS INCLUDED IN THE UNIT PRICES.
- UNLESS OTHERWISE AGREED TO PRIOR TO CONSTRUCTION THE UNIT QUANTITIES ESTABLISHED BY THE PLANS WILL BE THE CONTRACT BASIS. UNIT PRICES SHALL INCLUDE THE PROVIDING OF ALL COSTS REQUIRED FOR THE COMPLETE CONSTRUCTION OF THE SPECIFIED UNIT OF WORK INCLUDING BUT NOT LIMITED TO: COST OF MATERIALS AND DELIVERY; COST OF INSTALLATION; LABOR, INCLUDING SOCIAL SECURITY, INSURANCE, AND OTHER REQUIRED FRINGE BENEFITS; WORKMAN'S COMPENSATION INSURANCE; BOND PREMIUMS; RENTAL OF EQUIPMENT AND MACHINERY; TAXES; TESTING SURVEYS AND OTHER INCIDENTAL EXPENSES; AND SUPERVISION.
- CONTRACTOR SHALL EMPLOY A REGISTERED SURVEYOR TO LAY OUT LINE, GRADES, STRUCTURES, LOT CORNERS, ETC. AS NECESSARY TO CONSTRUCT THE PROPOSED FACILITIES IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. BENCH MARKS SHALL BE ESTABLISHED BY A REGISTERED SURVEYOR. BENCH MARKS SHALL BE PERMANENT AND EASILY ACCESSIBLE AND MAINTAINED AND REPLACED IF DISTURBED OR DESTROYED. HORIZONTAL CONTROL SHALL SIMILARLY BE ESTABLISHED AND MAINTAINED.
- ANY UNSTABLE SOIL AND/OR SOIL CONTAINING ORGANIC MATERIAL ENCOUNTERED DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO MUCK, SILT, SLUDGE AND MARL, SHALL BE REMOVED AND SHALL BE REPLACED BY MATERIAL ACCEPTABLE TO THE ENGINEER. NO ADDITIONAL PAYMENT SHALL BE PROVIDED FOR REMOVAL, REPLACEMENT, AND DISPOSAL OF SUCH UNSTABLE SOIL AND/OR ORGANIC CONTENT SOIL. THE REMOVAL, REPLACEMENT AND DISPOSAL OF SUCH UNSTABLE SOIL AND/OR ORGANIC CONTENT SOIL SHALL BE CONSIDERED TO BE PART OF THE CONTRACT PRICE AS PROVIDED IN THE UNIT PRICE BID SCHEDULE. IF ANY ROCK, HARDPAN, ETC. IS ENCOUNTERED DURING CONSTRUCTION OF ANY ITEMS, THE REMOVAL AND BACKFILL REQUIRED SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OF THAT ITEM AND NO SEPARATE PAYMENT WILL BE MADE.
- THE CONTRACTOR SHALL VISIT THE SITE AND ACQUAINT HIMSELF WITH ALL EXISTING CONDITIONS. MAKE HIS OWN SUBSURFACE INVESTIGATION TO SATISFY HIMSELF AS TO THE SITE AND SUBSURFACE CONDITIONS, BUT SUCH SUBSURFACE INVESTIGATIONS SHALL BE PERFORMED ONLY UNDER TIME SCHEDULES AND ARRANGEMENTS APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE AND ENGINEER. THE EXISTING GRADES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND NO REPRESENTATION IS MADE AS TO THEIR ACCURACY OR CONSISTENCY. THE CONTRACTOR SHALL VERIFY ALL EXISTING GRADES TO THE EXTENT NECESSARY TO INSURE COMPLETION OF THE JOB TO THE PROPOSED GRADES INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE BARRIERS AND PROTECTION FOR THOSE EXISTING FACILITIES AND VEGETATION (NATURAL AND LANDSCAPING) THAT ARE TO REMAIN IN THE EXISTING CONDITIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY COST ASSOCIATED WITH REPAIR OR REPLACEMENT OF THESE ITEMS IF THEY ARE DAMAGED OR DESTROYED BY THE CONTRACTOR (INCLUDING HIS WORKERS, SUBCONTRACTORS, LABORERS, SUPPLIERS, DELIVERY VEHICLES.)
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ANY DEWATERING PERMITS AND/OR APPROVALS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED FACILITIES/SYSTEMS.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM OF SEVEN (7) COPIES FOR SHOP DRAWINGS, PRODUCT DATA, MATERIAL SPECIFICATION OF OTHER INFORMATION REGARDING CONSTRUCTION MATERIALS AND STRUCTURES AS REQUESTED BY THE OWNER, ENGINEER OR PERMITTING/APPROVAL AGENCY. SHOP DRAWINGS MUST BE NEWLY PREPARED INFORMATION, DRAWN TO ACCURATE SCALE. DO NOT REPRODUCE CONTRACT DOCUMENTS OR COPY STANDARD INFORMATION AS THE BASIS OF SHOP DRAWINGS. STANDARD INFORMATION PREPARED WITHOUT SPECIFIC REFERENCE TO THE PROJECT IS NOT CONSIDERED SHOP DRAWINGS. ALL COSTS ASSOCIATED WITH THIS ITEM IS INCLUDED IN THE UNIT PRICES.
- BY HIS SUBMITTAL OF ANY SHOP DRAWING OR CATALOG DATA, BEARING HIS APPROVAL STAMP, THE CONTRACTOR THEREBY REPRESENTS THAT HE HAS DETERMINED AND VERIFIED ALL FIELD MEASUREMENTS, FIELD CONSTRUCTION CRITERIA, MATERIALS, DIMENSIONS, CATALOG NUMBERS AND SIMILAR DATA, OR WILL DO SO, AND THAT HE HAS CHECKED AND COORDINATED EACH ITEM WITH OTHER APPLICABLE APPROVED SHOP DRAWINGS AND THE CONTRACT REQUIREMENTS. SHOP DRAWINGS AND CATALOG DATA SUBMITTED WITHOUT THE CONTRACTOR'S STAMP OF APPROVAL WILL BE RETURNED TO THE CONTRACTOR WITHOUT REVIEW. APPROVAL OF SHOP DRAWINGS, SAMPLES, OR CATALOG DATA BY THE ENGINEER SHALL NOT AUTHORIZE ANY DEVIATION FROM THE REQUIREMENT OF THE CONTRACT DOCUMENTS NOR SHALL SUCH APPROVAL RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS THEREIN.

HEALTH PARK AT AVENIR



LOCATION MAP
N.T.S.
SEC. 15 TWP. 42S RNG. 41E

INDEX TO DRAWINGS

1	COVER SHEET
2	DIMENSION AND STRIPING PLAN
3-4	PAVING AND DRAINAGE PLAN
5	WATER AND SANITARY PLAN
6-7	PAVING AND DRAINAGE DETAILS
8-12	WATER AND SANITARY DETAILS

DEVELOPMENT PLANS

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EB# 2438 FAX. (561) 642-9726 LB# 2438
www.schorah.com
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WEST PALM BEACH, FLORIDA 33406



MARTHA H. CARTER, P.E., CFM
FLORIDA REGISTRATION #47589
FOR MICHAEL B. SCHORAH AND ASSOCIATES, INC.

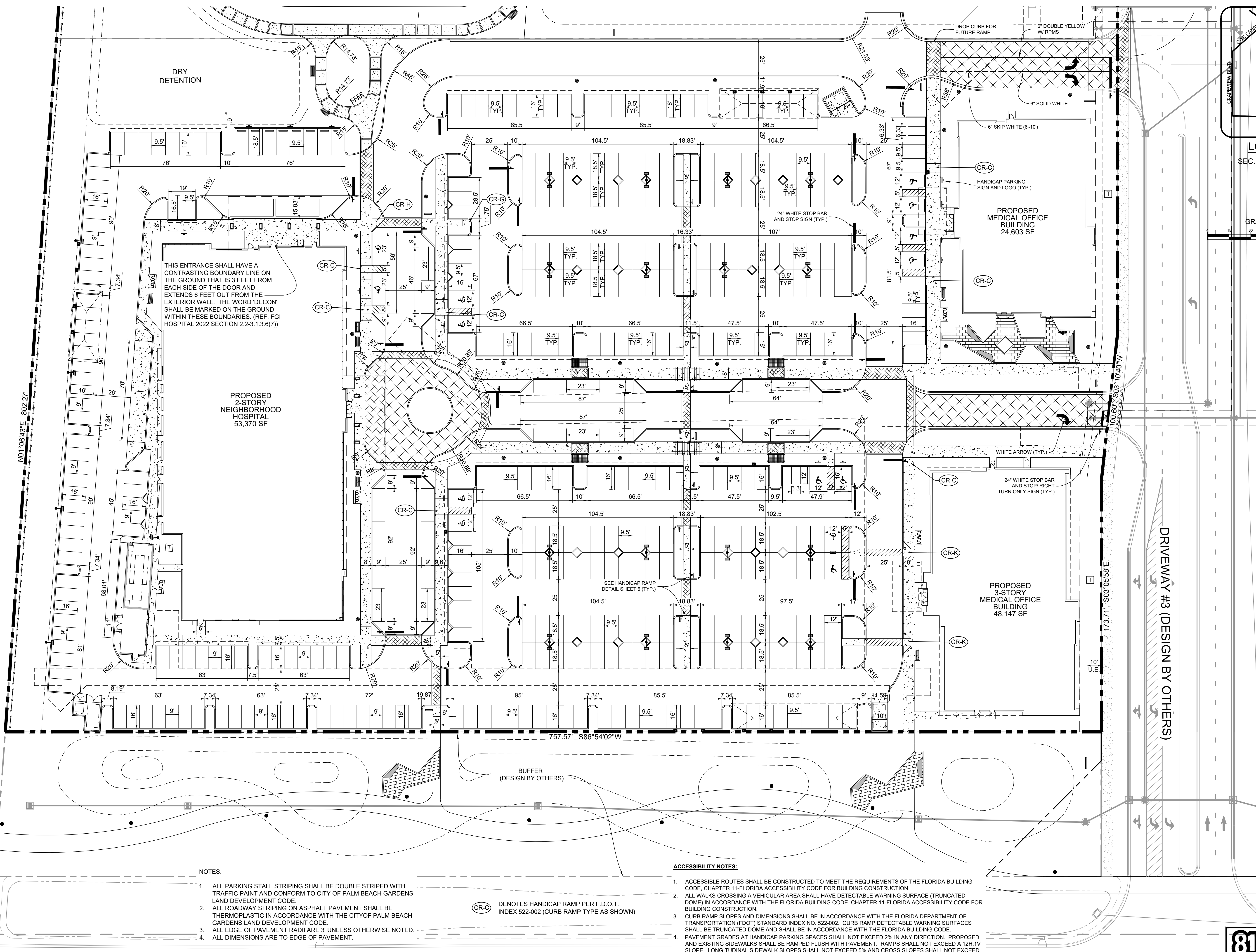
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CONVERSION: NGVD = NAVD + 1.51'

DATED: _____

JOB NO.1846

SHEET NO. 1 OF 12





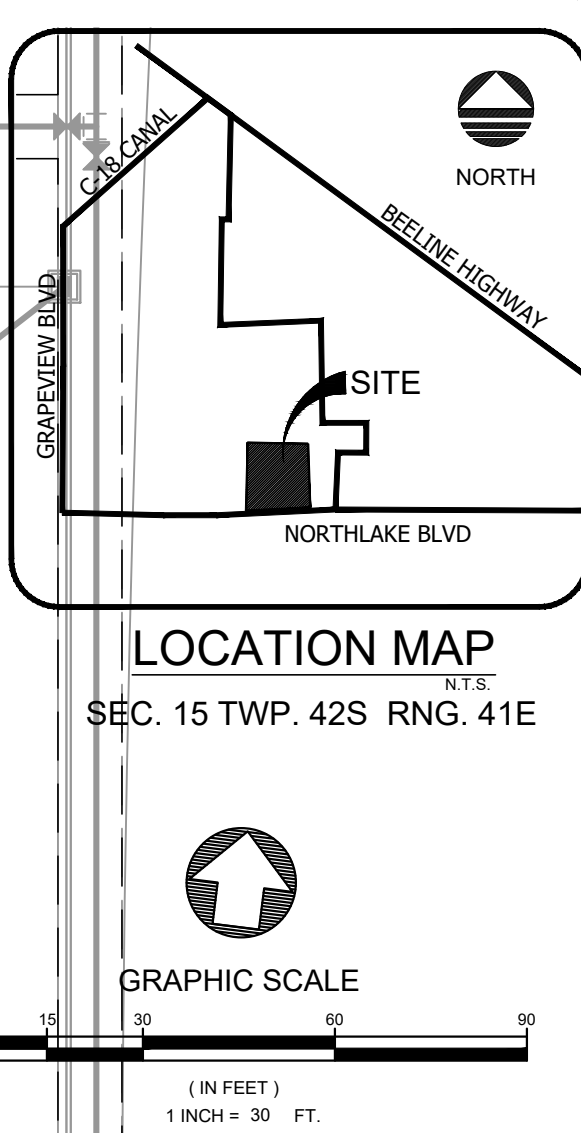
NOTES:

- ALL PARKING STALL STRIPING SHALL BE DOUBLE STRIPED WITH TRAFFIC PAINT AND CONFORM TO CITY OF PALM BEACH GARDENS LAND DEVELOPMENT CODE.
- ALL ROADWAY STRIPING ON ASPHALT PAVEMENT SHALL BE THERMOPLASTIC IN ACCORDANCE WITH THE CITY OF PALM BEACH GARDENS LAND DEVELOPMENT CODE.
- ALL EDGE OF PAVEMENT RADII ARE 3' UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE TO EDGE OF PAVEMENT.

ACCESSIBILITY NOTES:

- ACCESSIBLE ROUTES SHALL BE CONSTRUCTED TO MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CHAPTER 11-FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.
- ALL WALKS CROSSING A VEHICULAR AREA SHALL HAVE DETECTABLE WARNING SURFACE (TRUNCATED DOME) IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, CHAPTER 11-FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.
- CURB RAMP SLOPES AND DIMENSIONS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD INDEX NO. 522-002. CURB RAMP DETECTABLE WARNING SURFACES SHALL BE TRUNCATED DOME AND SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.
- PAVEMENT GRADES AT HANDICAP PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION. PROPOSED AND EXISTING SIDEWALKS SHALL BE RAMPED FLUSH WITH PAVEMENT. RAMP SHALL NOT EXCEED A 12%:1V SLOPE. LONGITUDINAL SIDEWALK SLOPES SHALL NOT EXCEED 5% AND CROSS SLOPES SHALL NOT EXCEED 2%.

CR-C DENOTES HANDICAP RAMP PER F.D.O.T. INDEX 522-002 (CURB RAMP TYPE AS SHOWN)



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REVISIONS

DRAWN/CHECKED:

MAM/MHC

MARTHA H. CARTER, P.E., CFM
FLORIDA LICENSE #47589
FOR MICHAEL B. SCHORAH
AND ASSOCIATES, INC.

SCALE:

1" = 30'

DATE:

JAN 2024

PROJECT: HEALTH PARK AT AVENIR

DESCRIPTION: DIMENSION AND STRIPING PLAN

JOB NO.

1846

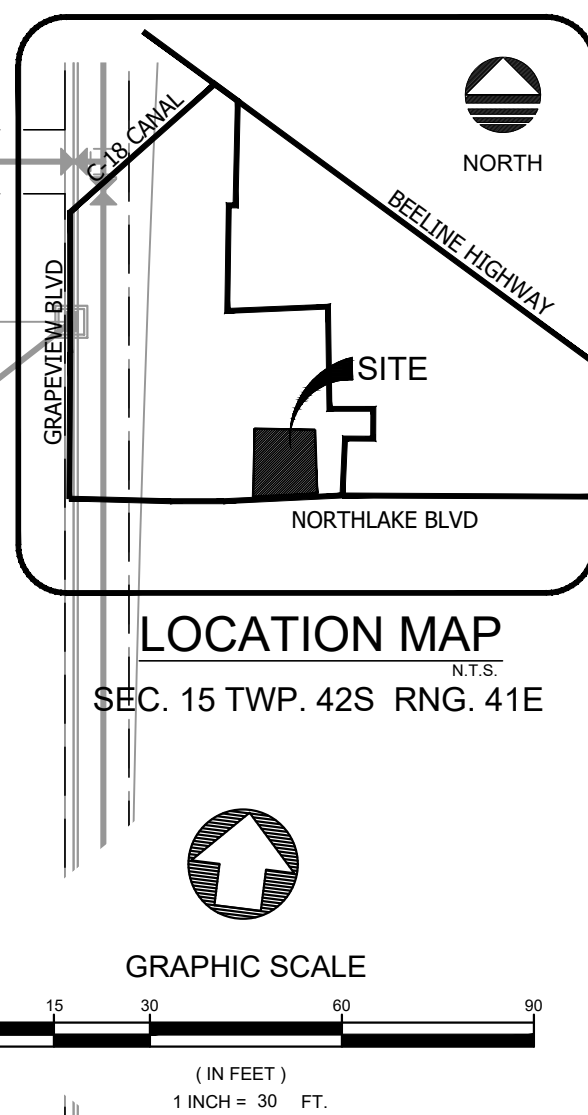
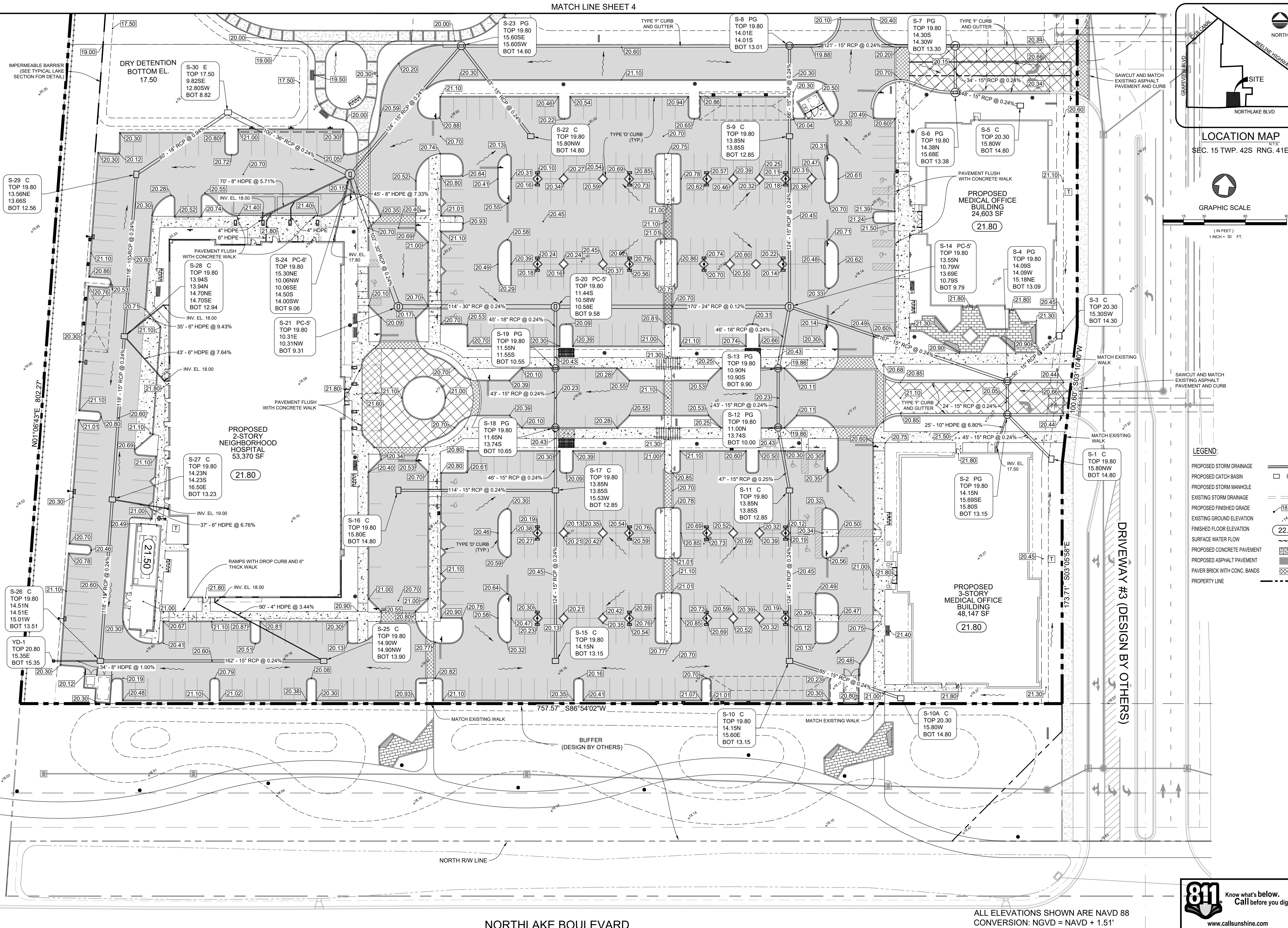
SHEET NO.

2

OF 12



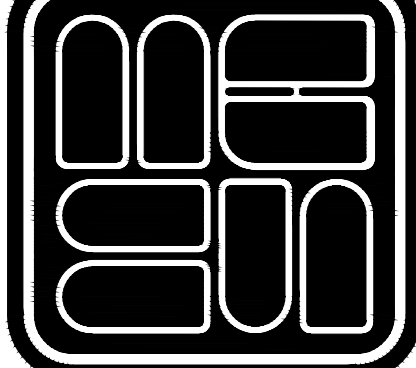
NORTHLAKE BOULEVARD



LOCATION MAP
SEC. 15 TWP. 42S RING. 41E

LEGEND:

- PROPOSED STORM DRAINAGE
- PROPOSED CATCH BASIN
- PROPOSED STORM MANHOLE
- EXISTING STORM DRAINAGE
- PROPOSED FINISHED GRADE
- EXISTING GROUND ELEVATION
- FINISHED FLOOR ELEVATION
- SURFACE WATER FLOW
- PROPOSED CONCRETE PAVEMENT
- PROPOSED ASPHALT PAVEMENT
- PAVER BRICK WITH CONC. BANDS
- PROPERTY LINE



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REVISIONS
S-10-24 REV. PER PDS FIRE
S-30-24 REV. PER PDS FIRE
7-11-24 REV. PER SJA
7-25-24 REV. PER SPMWD
8-24-24 REV. PER SJA
8-21-24 ADD ROOF DRAINS

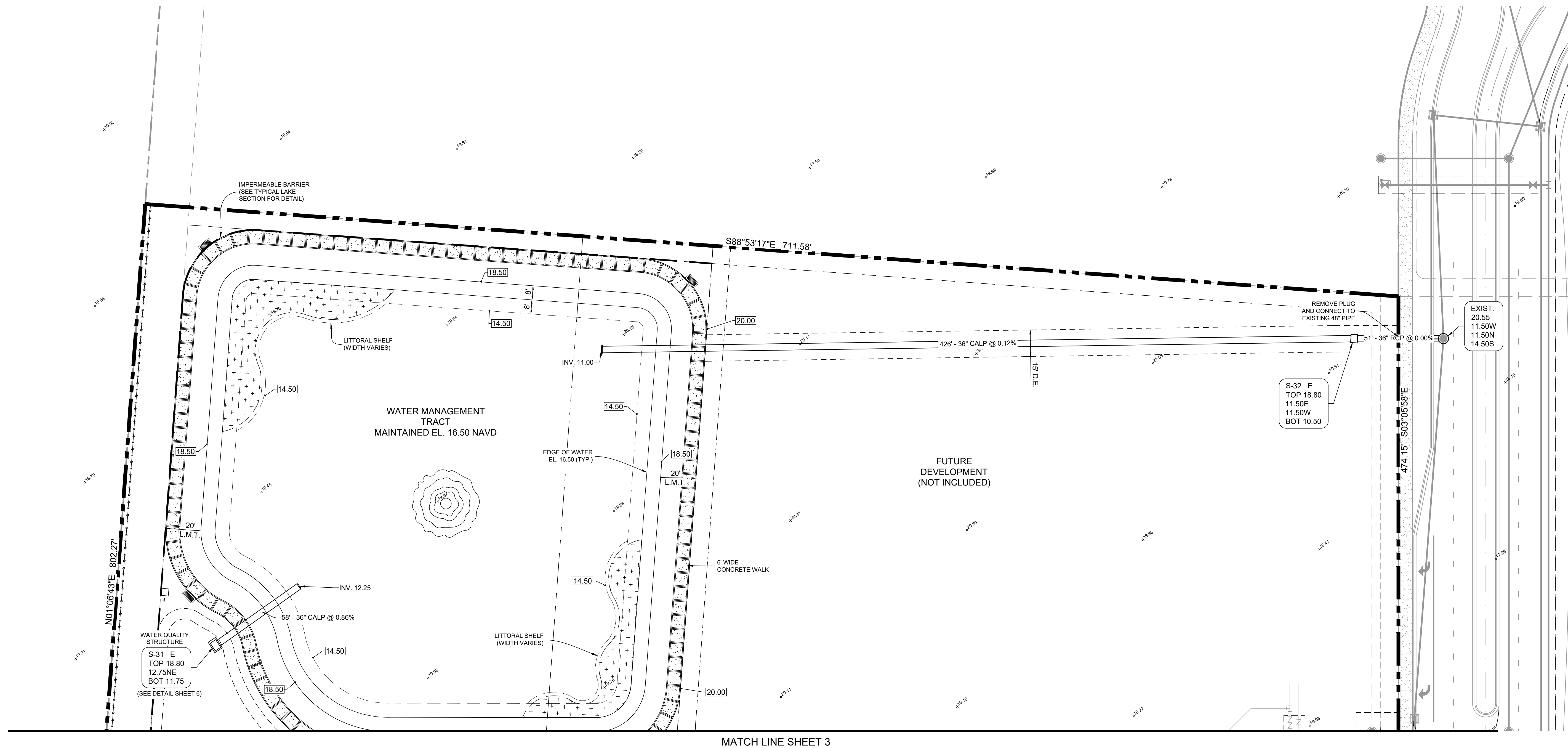
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MARTHA H. CARTER, P.E., CFM FLORIDA LICENSE #47589 FOR MICHAEL B. SCHORAH AND ASSOCIATES, INC.	SCALE: 1" = 30'
DATE:	JAN 2024

PROJECT:	HEALTH PARK AT AVENIR
DESCRIPTION:	PAVING AND DRAINAGE PLAN

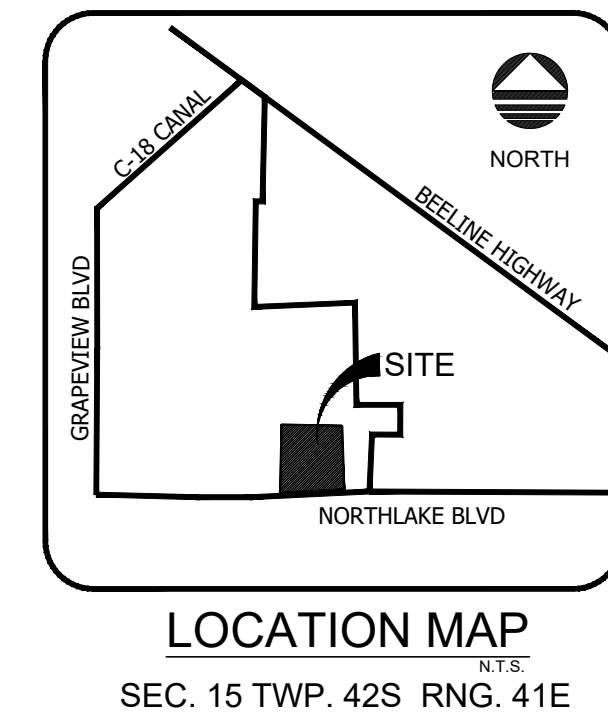
JOB NO.	1846
SHEET NO.	3
OF	12



ALL ELEVATIONS SHOWN ARE NAVD 88
CONVERSION: NGVD = NAVD + 1.51'



ALL ELEVATIONS SHOWN ARE NAVD 88
CONVERSION: NGVD = NAVD + 1.51'



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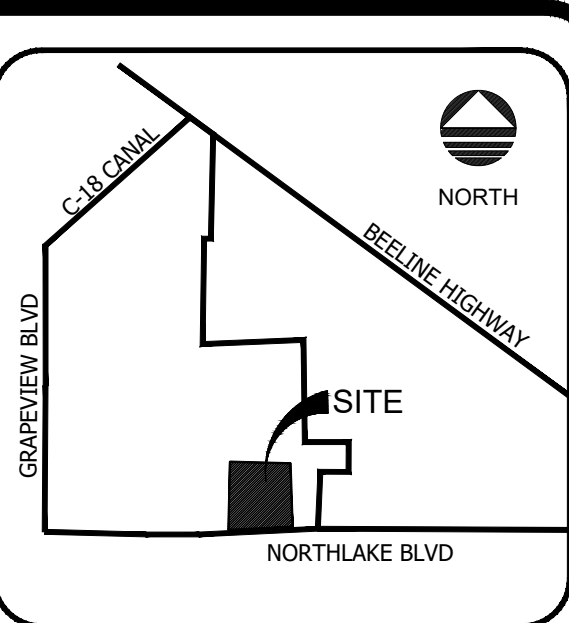
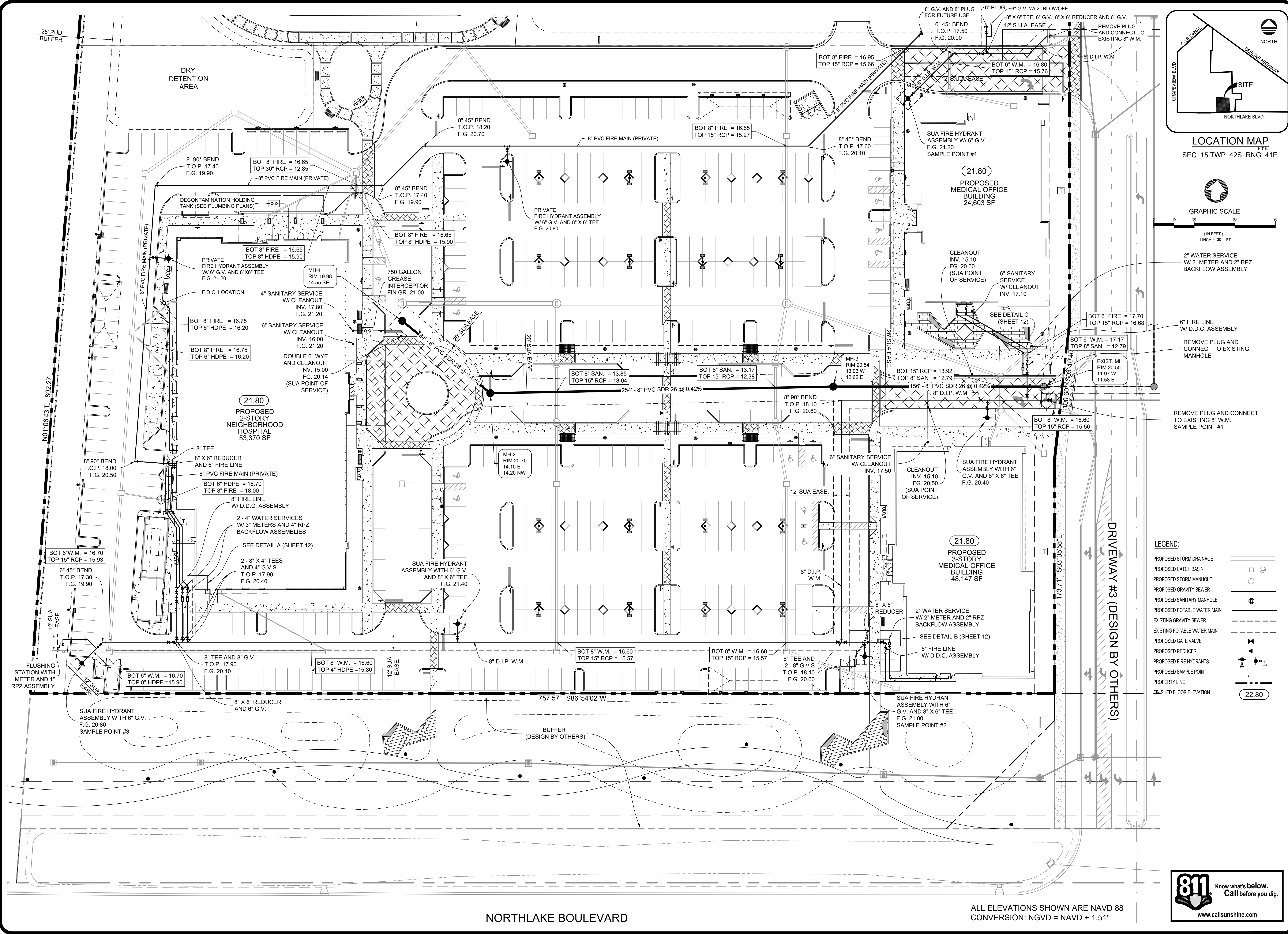
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PROJECT:	HEALTH PARK AT AVENIR
DESCRIPTION:	PAVING AND DRAINAGE PLAN

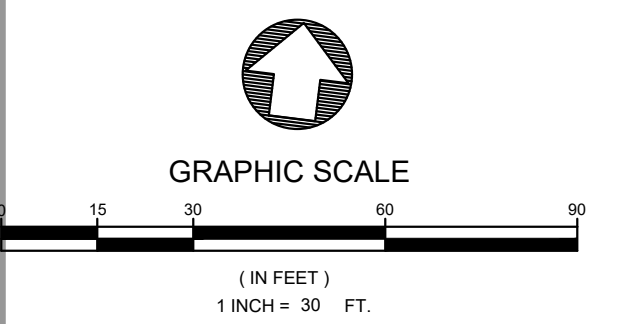
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1846

SHEET NO.
4

OF 12



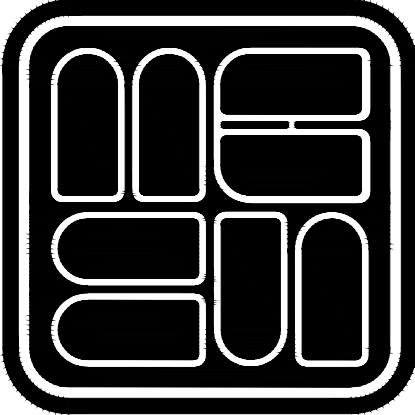
LOCATION MAP
SEC. 15 TWP. 42S RING. 41E



- 2" WATER SERVICE W/ 2" METER AND 2" RPZ BACKFLOW ASSEMBLY
- 6" FIRE LINE W/ D.D.C. ASSEMBLY REMOVE PLUG AND CONNECT TO EXISTING MANHOLE
- REMOVE PLUG AND CONNECT TO EXISTING 8" W.M. SAMPLE POINT #1

- LEGEND:
- PROPOSED STORM DRAINAGE
 - PROPOSED CATCH BASIN
 - PROPOSED STORM MANHOLE
 - PROPOSED GRAVITY SEWER
 - PROPOSED SANITARY MANHOLE
 - PROPOSED POTABLE WATER MAIN
 - EXISTING GRAVITY SEWER
 - EXISTING POTABLE WATER MAIN
 - PROPOSED GATE VALVE
 - PROPOSED REDUCER
 - PROPOSED FIRE HYDRANTS
 - PROPOSED SAMPLE POINT
 - PROPERTY LINE
 - FINISHED FLOOR ELEVATION

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REVISIONS
5/1/24 REV PER RCP FIRE
5/3/24 REV PER RCP FIRE & MEP
7/1/24 REV PER SVA
7/2/24 REV PER SHWMD
8/8/24 REV PER SVA
8/21/24 ADD ROOF DRAINS

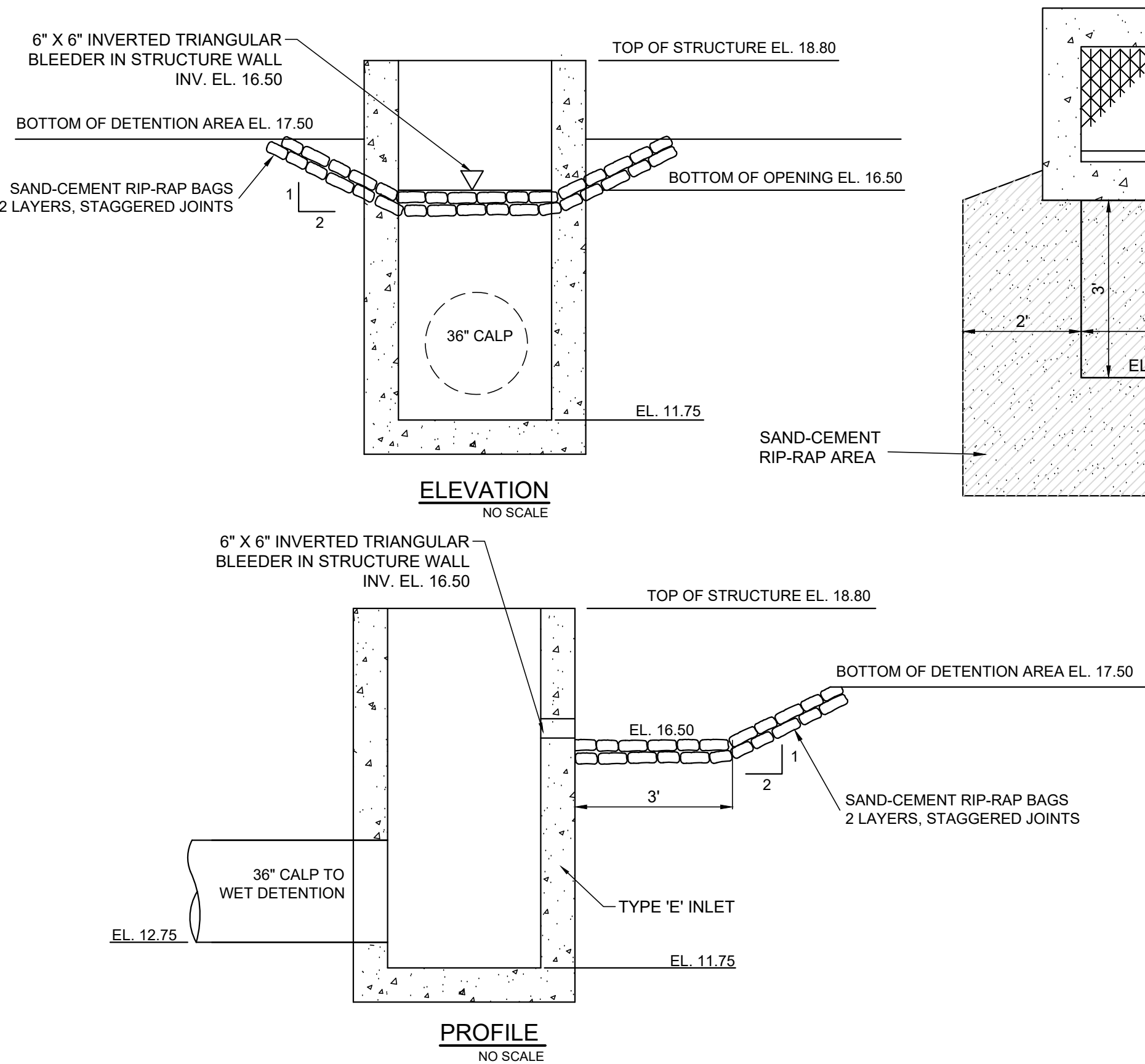
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DATE:	JAN 2024
SCALE:	1" = 30'
MARTHA L. CARTER P.E., CEM FOR MICHAEL B. SCHORAH AND ASSOCIATES, INC.	

PROJECT: **HEALTH PARK AT AVENIR**
DESCRIPTION: **WATER AND SANITARY PLAN**

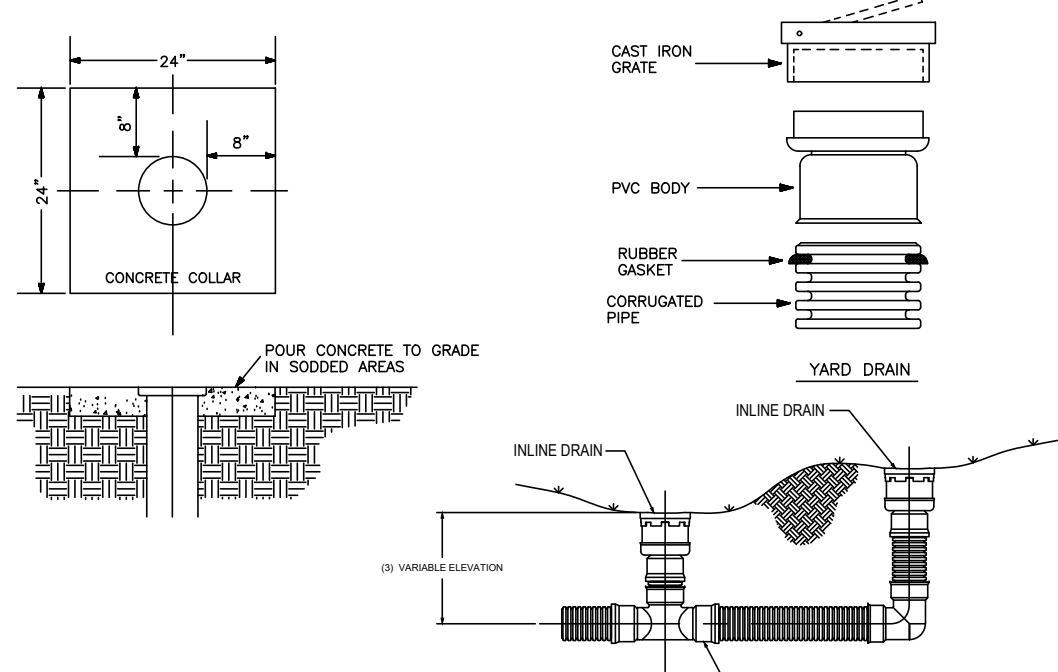
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SHEET NO. **5**
OF 12

ALL ELEVATIONS SHOWN ARE NAVD 88
CONVERSION: NGVD = NAVD + 1.51'

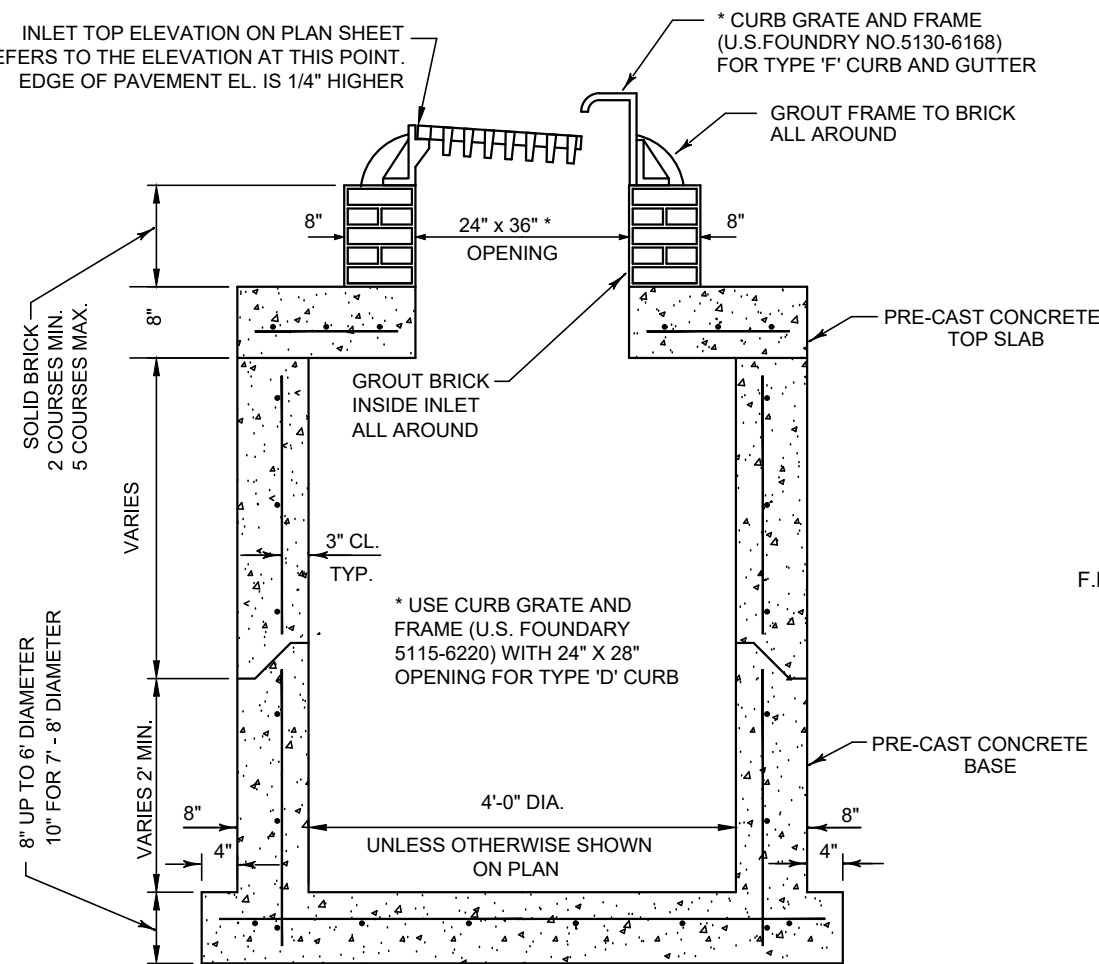
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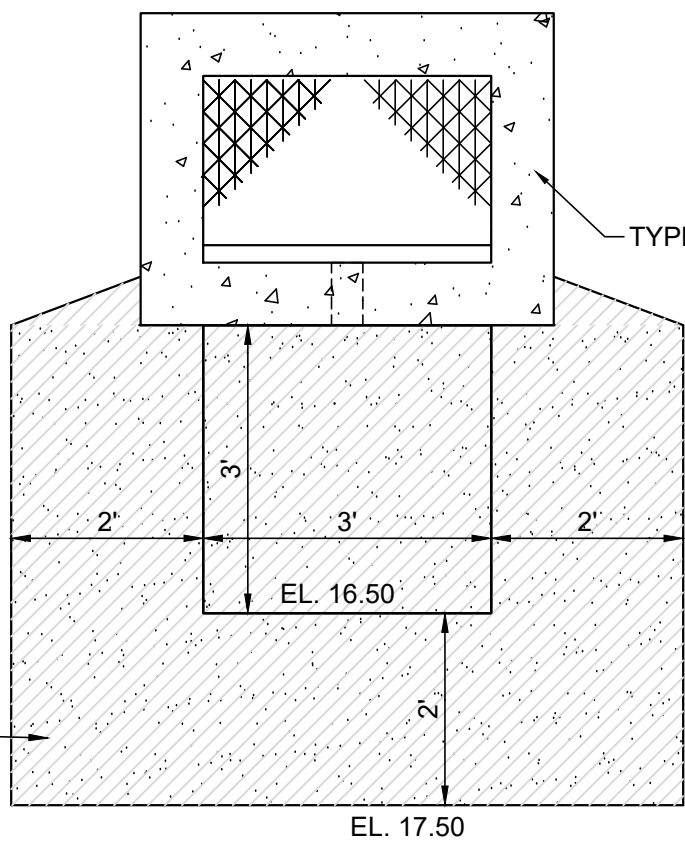
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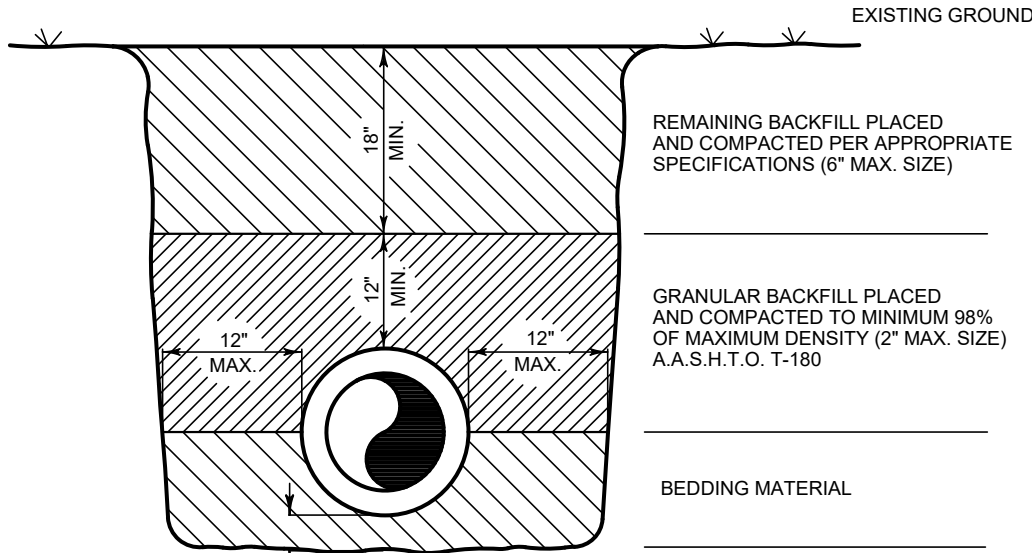
IN-LINE DRAIN DETAIL
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TYPE 'PG' INLET DETAIL
FDOT INDEX #425-010
NO SCALE



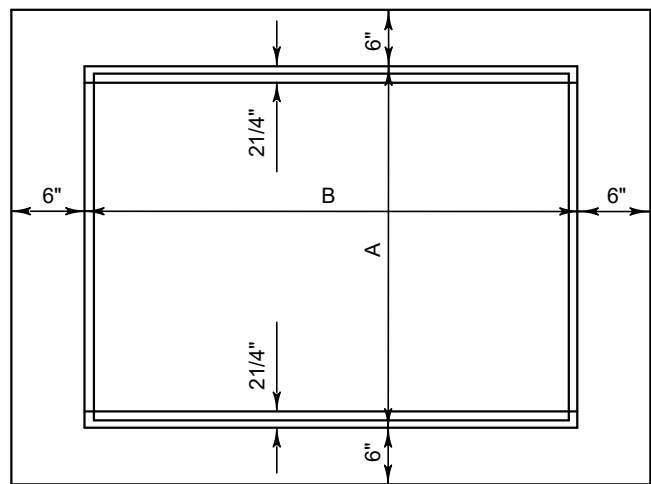
PLAN
NO SCALE



NOTES:

1. BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK (3/8" TO 1/2" SIZING). UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCK SHALL BE REMOVED.
2. THE PIPE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
3. THE PIPE SHALL BE PLACED IN A DRY TRENCH.
4. BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL LARGER ROCK, MUCK AND DEBRIS.
5. EXCAVATION, SIDE SLOPES, SHORING, ETC., SHALL CONFORM TO O.S.H.A. STANDARDS.

TRENCH DETAIL
NO SCALE

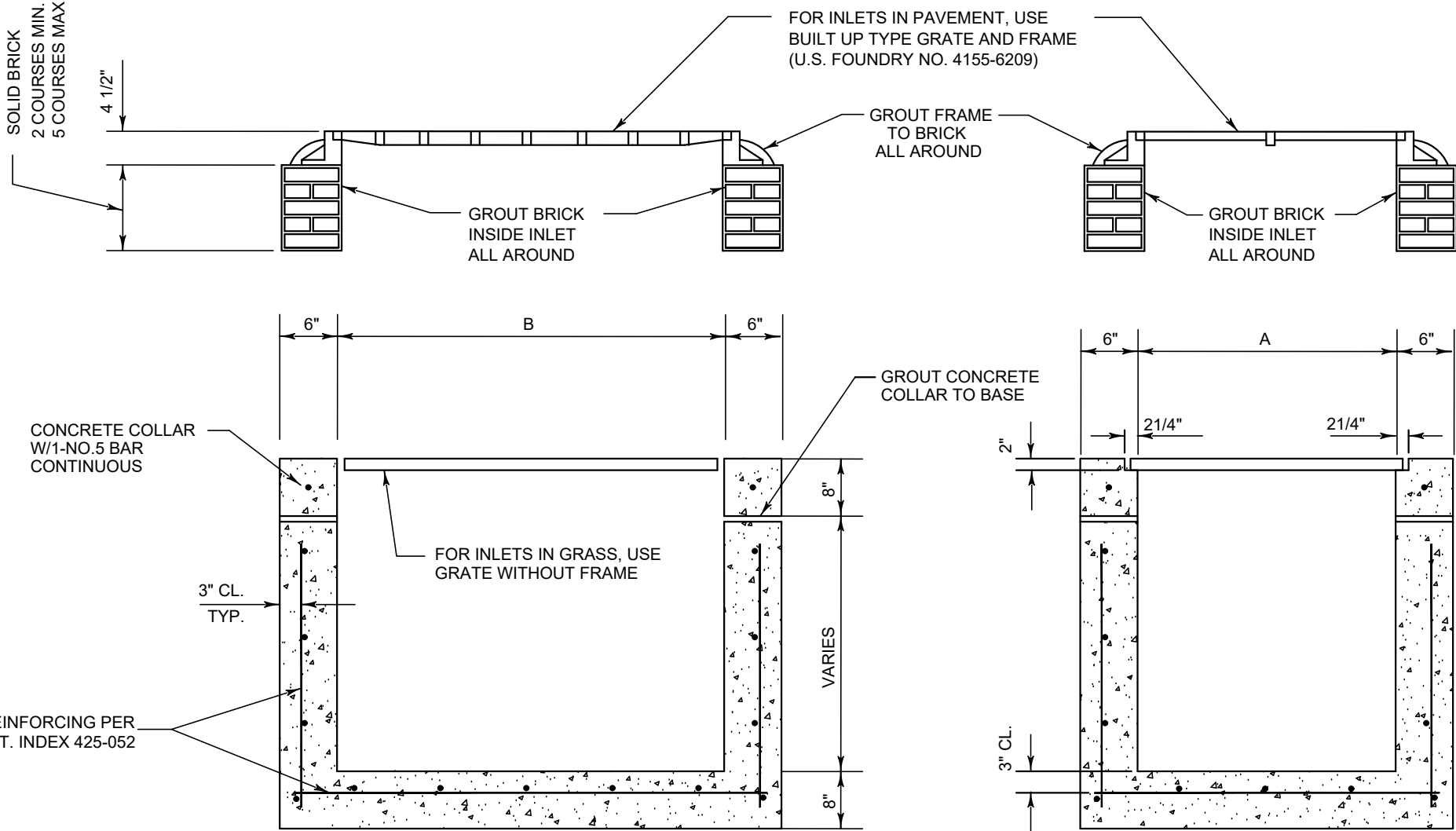


PLAN

INLET TYPE	DIMENSIONS		GRATE TYPE	MAX. PIPE SIZE	
	A	B		WALL A	WALL B
'C'	2'-0"	3'-1"	U.S. FOUNDRY NO. 6209	18" R.C.P.	24" R.C.P.
'E'	3'-0"	4'-6"	U.S. FOUNDRY NO. 6290	24" R.C.P.	42" R.C.P.

NOTES:

1. INLET TO BE POURED IN PLACE WITH 2500 P.S.I. CONCRETE OR PRECAST WITH CLASS 'A' 3000 P.S.I. CONCRETE.
2. ALL EXPOSED CORNERS AND EDGES TO BE CHAMFERED 3/4".
3. GRATES MUST HAVE LOCKING CHAINS IN ACCORDANCE WITH D.O.T. INDEX 425-001 OR APPROVED ALTERNATE SECURING MECHANISM.



SECTION

TYPE 'C' OR 'E'

INLET DETAILS

FDOT INDEX #425-052
NO SCALE

NOTE:

INTERIOR STRUCTURE BOTTOM SHALL BE A MINIMUM OF 1 FOOT BELOW LOWEST INVERT ON ALL INLETS, AND JUNCTION BOXES.

GRATES MUST HAVE LOCKING CHAINS IN ACCORDANCE WITH D.O.T. INDEX 425-001 OR APPROVED ALTERNATE SECURING MECHANISM

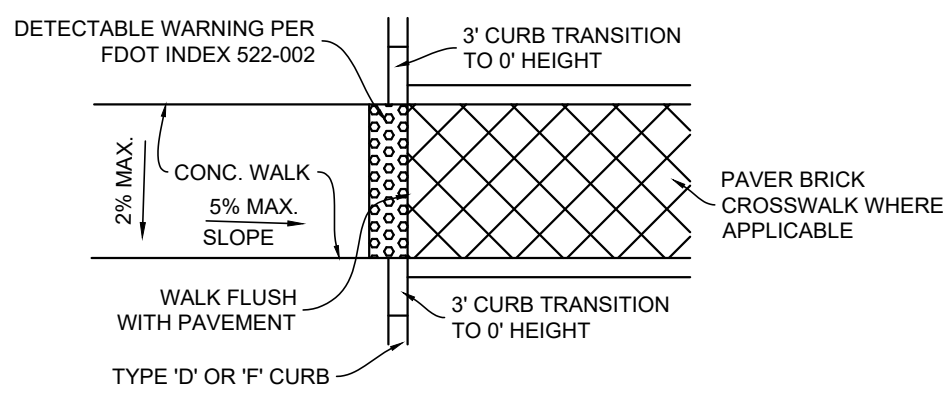
BACKFILLING EXCAVATION NOTES

1. ALL STRUCTURES, PIPE LINES AND JOINTS AND OTHER CONSTRUCTION SHALL BE SUBJECT TO FIELD OBSERVATION BY THE ENGINEER (OR HIS REPRESENTATIVE) PRIOR TO BACKFILLING.
2. BACKFILLING SHALL BE DONE WITH APPROVED MATERIAL, FREE FROM LARGE CLODS, ROCKS, ORGANIC MATERIALS OR OTHER EXTRANEOUS MATERIAL.
3. BACKFILLING OF STRUCTURE (MANHOLES, ETC) EXCAVATIONS AND REQUIRED FILL UNDER STRUCTURE SLABS SHALL BE DONE IN HORIZONTAL LIFTS NOT EXCEEDING SIX (6) INCHES IN DEPTH, AND SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 98% OF THE MAXIMUM DENSITY AS DETERMINED BY A.A.S.H.T.O. T-180.
4. BACKFILL MATERIAL FOR PIPE EXCAVATION SHALL BE SELECTED, DEPOSITED AND COMPACTED SO AS TO ELIMINATE THE POSSIBILITY OF HORIZONTAL OR LATERAL DISPLACEMENT OF THE PIPE. BACKFILL MATERIAL SHALL BE SOLIDLY TAMPED AROUND THE PIPES IN SIX (6) INCH LIFTS UP TO A LEVEL AT LEAST SIX (6) INCHES ABOVE THE TOP OF THE PIPE. BACKFILLING SHALL BE CARRIED OUT SIMULTANEOUSLY ON BOTH SIDES OF THE PIPE. THE REMAINDER OF THE BACKFILL SHALL BE PLACED IN SIX (6) INCH LIFTS (COMPACTED THICKNESS), MOISTENED AND MECHANICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 98% OF THE MAXIMUM DENSITY AS DETERMINED BY A.A.S.H.T.O. T-180. WATER SETTLING MAY BE UTILIZED AT THE OPTION OF THE CONTRACTOR, PROVIDED THE REQUIRED DENSITY IS ACHIEVED. IN AREAS WHERE PAVING IS TO BE PLACED OVER THE BACKFILLED TRENCH, COMPACTION SHALL BE CARRIED OUT TO ACHIEVE A DENSITY OF AT LEAST 98% OF THE MAXIMUM DENSITY AS DETERMINED BY A.A.S.H.T.O. T-180 FOR A MINIMUM OF THE TOP THREE (3) FEET OF THE BACKFILLED TRENCH (THE REMAINING DEPTH AS NOTED ABOVE) AND EXTENDING TO THE TRENCH WIDTH + TWO (2) FEET - SEE DETAIL. DENSITY TESTS FOR DETERMINATION OF THE SPECIFIED COMPACTION SHALL BE MADE BY AN APPROVED ENGINEERING TESTING LABORATORY. TESTS SHALL BE TAKEN IN ALL COMPACTED LIFTS (1 FOOT MINIMUM) AND SPACED ONE (1) FOR EVERY 400 FEET OF TRENCH (MAXIMUM) WITH AT LEAST ONE (1) TEST IN EACH PIPE RUN (STRUCTURE TO STRUCTURE). WHERE TRENCH CROSSES AREAS TO BE PAVED, A MINIMUM OF ONE (1) OF THE REQUIRED DENSITY TESTS MUST BE TAKEN IN THAT AREA.
5. EXCAVATION, SIDE SLOPES, SHORING, ETC., SHALL CONFORM TO O.S.H.A. STANDARDS.

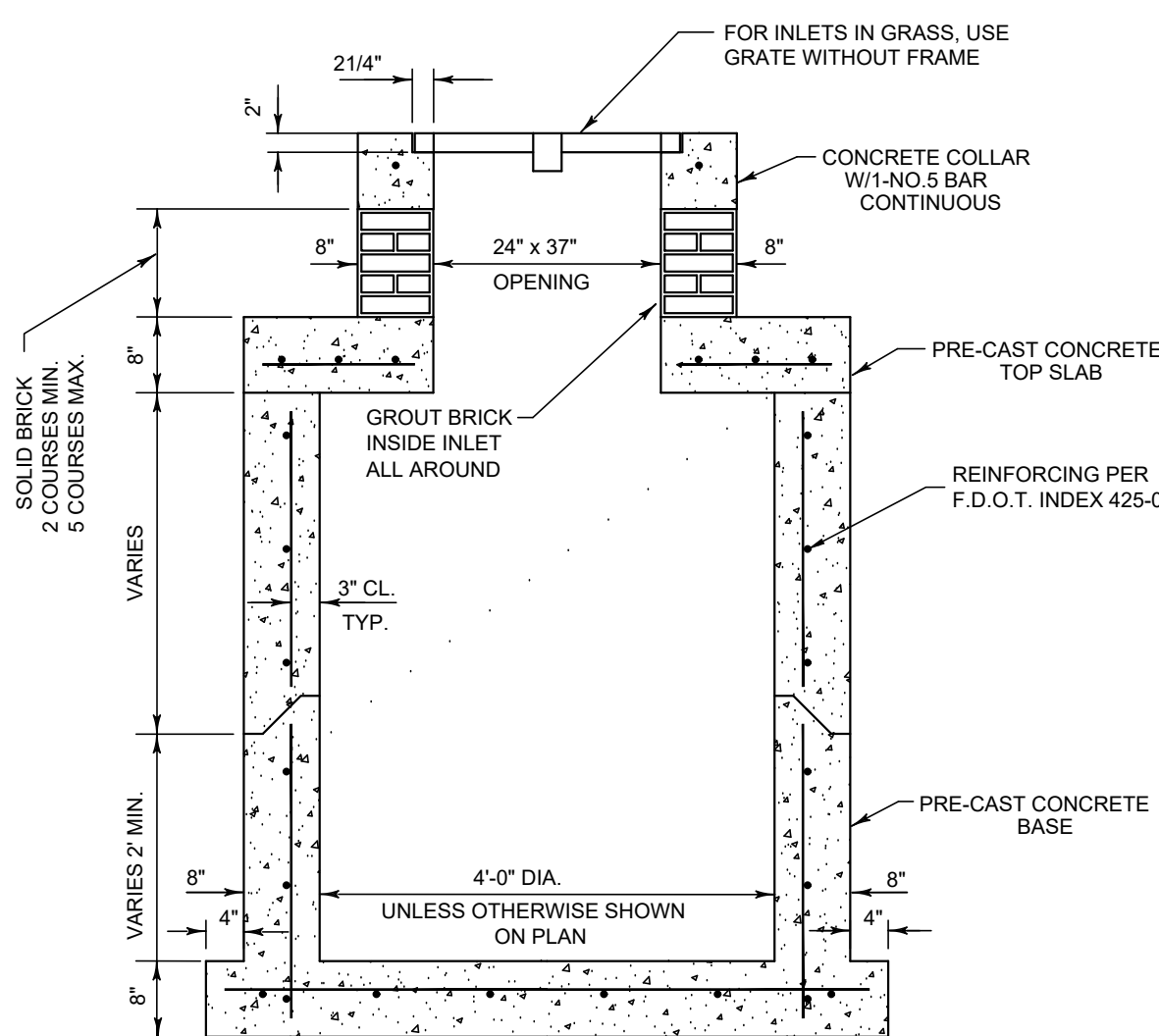
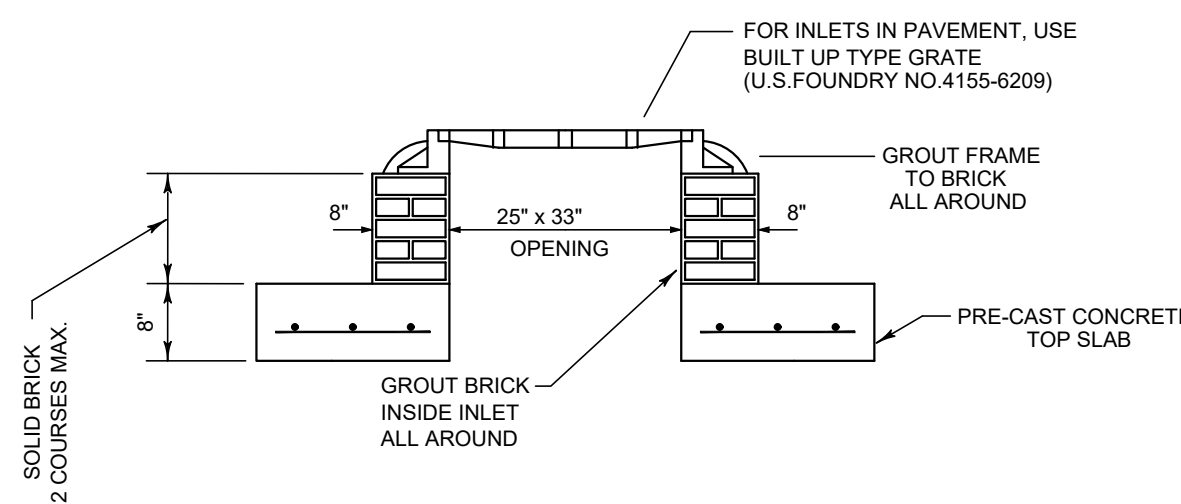
FILL MATERIAL SPECIFICATIONS:

SITE-GRADING FILL SHALL CONSIST OF CLEAN, GRANULAR MATERIALS THAT ARE FREE OF DEBRIS, CINDERS, COMBUSTIBLES, ROOTS, SODS, WOOD, CELLULOSE, ORGANIC MATERIALS, AND MATERIALS SUBJECT TO TERMITE ATTACK. THE ORGANIC CONTENT OF THE FILL SHALL BE LESS THAN 2% (BY WEIGHT). FILL SHALL HAVE LESS THAN 10 PERCENT PASSING THE U.S. STANDARD NO. 200 SIEVE (DRY WEIGHT BASIS) AND HAVE NO PARTICLE SIZE LARGER THAN 3 INCHES UNLESS IT CAN BE DEMONSTRATED THAT SUCH PARTICLES CAN BE BROKEN DOWN TO THE MAXIMUM SPECIFIED SIZE UNDER THE TRAFFIC OF THE EARTHWORK SPREADING AND COMPACTION EQUIPMENT.

FILL FOR LANDSCAPE BERMS, COMMON AREAS, OR OTHER AREAS THAT DO NOT REQUIRE STRUCTURAL FILL SHALL MEET THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 162.



HANDICAP RAMP DETAIL
NO SCALE



TYPE 'PC' INLET DETAIL
FDOT INDEX #425-010
NO SCALE

SPECIFICATIONS - PAVING AND DRAINAGE

1. CLEARING AND GRUBBING - WITHIN THE LIMITS OF CONSTRUCTION, ALL VEGETATION AND ROOT MATERIAL SHALL BE REMOVED.
2. GUMBO - WHERE GUMBO OR OTHER PLASTIC CLAYS ARE ENCOUNTERED, THEY SHALL BE REMOVED WITHIN THE CONSTRUCTION AREA ONE FOOT BELOW THE SUBGRADE EXTENDING HORIZONTALLY TO THE OUTSIDE EDGE OF THE SHOULDER AREA.
3. HARDPAN - IF HARDPAN IS ENCOUNTERED IN THE ROADSIDE SWALE, IT WILL BE REMOVED TO A WIDTH OF TWO FEET AT THE SWALE INVERT AND REPLACED WITH GRANULAR MATERIAL.
4. MUCK AND PEAT - IF MUCK AND/OR PEAT ARE ENCOUNTERED IN THE ROAD RIGHTS OF WAY, THEY WILL BE REMOVED COMPLETELY FROM THE AREA OF CONSTRUCTION TO A WIDTH OF TEN FEET BEYOND THE EDGE OF PAVEMENT AND SHALL BE BACKFILLED WITH GRANULAR MATERIAL.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE EXACT LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES, WHETHER SHOWN OR NOT, PRIOR TO CONSTRUCTION. NOTIFY ALL UTILITIES INVOLVED PRIOR TO CONSTRUCTION.
6. PIPE BACKFILL - REQUIREMENTS FOR PIPE BACKFILL CROSSING ROADS OR PARKING AREAS SHALL BE DEFINED IN THE FLORIDA D.O.T. SPECIFICATIONS, SECTION 125-8. PIPELINE BACKFILL SHALL BE PLACED IN TWELVE INCH LIFTS AND COMPACTED TO 98% OF THE STANDARD PROCTOR (A.A.S.H.T.O.) T-180 SPECIFICATIONS.
7. SEQUENCE OF CONSTRUCTION - SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND UTILITIES SHALL BE INSTALLED PRIOR TO ROADWAY CONSTRUCTION.
8. INLETS - ALL INLETS SHALL BE THE TYPE DESIGNATED ON THE PLANS, AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FLORIDA D.O.T. SPECIFICATIONS, SECTION 425.9.
9. CORRUGATED ALUMINUM PIPE (C.A.L.P.) - THE PIPE SHALL CONFORM WITH THE REQUIREMENTS OF THE A.A.S.H.T.O. M-196, AND WITH THE FLORIDA D.O.T. SPECIFICATIONS, SECTION 945-1. ALUMINUM PIPE TO BE HELICAL (SPIRAL FLOW).
10. REINFORCED CONCRETE PIPE - THE PIPE SHALL CONFORM WITH THE REQUIREMENTS OF CLASS III OF A.S.T.M. C-76 AND WITH THE FLORIDA D.O.T. SPECIFICATIONS, SECTION 941. CLASS II PP MAY BE SUBSTITUTED FOR RCP. CLASS II PP SHALL CONFORM WITH THE REQUIREMENTS OF FLORIDA D.O.T. SPECIFICATIONS SECTION 948-7.2.
11. SUBGRADE - ALL MUCK, STUMP ROOTS OR OTHER DELETERIOUS MATTER ENCOUNTERED IN THE PREPARATIONS OF THE SUBGRADE SHALL BE REMOVED COMPLETELY FROM THE CENTERLINE OF THE ROADWAY TO A WIDTH OF TEN FEET (10') BEYOND THE PROPOSED EDGE OF PAVEMENT. SUBGRADE SHALL BE COMPACTED TO 98% MAXIMUM DRY DENSITY A.A.S.H.T.O. T-180 LATEST REVISION SPECIFICATIONS. WHERE STABILIZATION IS REQUIRED IT SHALL MEET THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 160. DENSITY TESTS OF COMPACTED SUBGRADE SHALL BE TAKEN AT A MINIMUM OF 1 TEST FOR EVERY 400 FT OF LANE WITH TESTS ON ADJACENT LANES AT STAGGERED LOCATIONS.
12. BASEROCK - BASEROCK MATERIAL SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, SECTION 911. BASE SHALL BE COMPACTED TO A DENSITY NOT LESS THAN 98% OF MAXIMUM DRY DENSITY AS DETERMINED BY A.A.S.H.T.O. T-180, LATEST REVISION. CONTRACTOR SHALL NOTIFY ENGINEER IF BASEROCK SUBSTITUTE, OTHER THAN THE ABOVE-NOTED, IS PROPOSED. CONTRACTOR SHALL SUBMIT TEST REPORTS SHOWING GRADATION, CARBONATE CONTENT, PLASTICITY INDEX AND LIMEROCK BEARING RATIO OF PROPOSED SUBSTITUTE. TEST REPORTS SUBMITTED FOR SUBSTITUTE REVIEW SHALL NOT BE MORE THAN TWO (2) WEEKS OLD. ENGINEER MAY REQUIRE ADDITIONAL LAYER THICKNESS OF SUBSTITUTE. CONTRACTOR SHALL PROVIDE ADDITIONAL LAYER THICKNESS AT NO EXTRA COST TO OWNER.
13. PRIME COAT - BITUMINOUS PRIME COAT SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 300, AND SHALL BE APPLIED AT THE RATE OF 0.15 GALLONS PER SQUARE YARD, UNLESS A LOWER RATE IS DIRECTED BY THE ENGINEER.
14. TACK COAT - BITUMINOUS TACK COAT SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 300, AND SHALL BE APPLIED AT THE RATE OF 0.08 GALLONS PER SQUARE YARD, UNLESS A VARIATION IN RATE IS APPROVED BY THE ENGINEER.
15. SURFACE COURSE - TYPE 'SP' ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, SECTIONS 334 AND 337, THE MINIMUM COMPACTED THICKNESS TO BE AS NOTED ON PLANS.
16. CONCRETE - ALL CONCRETE SHALL DEVELOP 2500 P.S.I. (MINIMUM) 28 DAY COMPRESSIVE STRENGTH OR GREATER WHERE NOTED ON PLANS. CLASS I CONCRETE SHALL CONFORM WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 347. CLASS I CONCRETE USED AS PAVING OR CURB SHALL DEVELOP 3000 P.S.I. (MINIMUM) 28 DAYS COMPRESSIVE STRENGTH. CONCRETE CURBING SHALL CONFORM WITH THE FLORIDA D.O.T. SPECIFICATIONS, SECTION 520.
17. REGULATIONS - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT PALM BEACH GARDENS LAND DEVELOPMENT CODE AND THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND ALL ADDENDA TO THE ABOVE REGULATIONS AND THEIR LATEST REVISIONS THERETO SHALL GOVERN.
18. ELEVATIONS - ALL ELEVATIONS REFER TO N.A.V.D., 1988.
19. AS-BUILTS - THE CONTRACTOR SHALL COMPLETE "AS-BUILT" INFORMATION RELATIVE TO LOCATION OF THE INLETS AND MANHOLES AS WELL AS INVERTS AND RIM ELEVATIONS.
20. GUARANTY - ALL MATERIAL AND EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE THEREOF, AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART OF THE GUARANTEED EQUIPMENT OR MATERIALS, DURING THE GUARANTY PERIOD, THE AFFECTED PART, PARTS, OR MATERIALS SHALL BE REPLACED PROMPTLY WITH NEW PARTS OR MATERIALS BY THE CONTRACTOR, AT NO EXPENSE TO THE OWNER. IN THE EVENT THE CONTRACTOR FAILS TO MAKE THE NECESSARY REPLACEMENT OR REPAIRS WITHIN SEVEN DAYS AFTER NOTIFICATION BY THE OWNER, THE OWNER MAY ACCOMPLISH THE WORK AT THE EXPENSE OF THE CONTRACTOR.
21. WHERE CONNECTIONS TO AN EXISTING DRAINAGE SYSTEM ARE PROPOSED, SAID EXISTING DRAINAGE STRUCTURES AND LINES SHALL BE CLEANED OF ALL SILT AND OTHER DEBRIS PRIOR TO SAID CONNECTIONS BEING MADE, AND WHERE THE EXISTING DRAINAGE SYSTEM INCLUDES DITCHES, SAID DITCHES SHALL BE CLEANED AND REWORKED, AS NECESSARY, TO RESTORE THEM TO AN APPROVED DESIGN SECTION.
22. PAVEMENT MARKINGS AND GEOMETRICS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS, AND CITY OF PALM BEACH GARDENS STANDARDS.
23. WHERE A MODIFIED OR STANDARD PROCTOR IS REQUIRED ON MATERIAL THAT REQUIRES COMPACTION TO A SPECIFIED LIMIT, A PROCTOR MUST BE DONE FOR EACH TYPE OR CLASSIFICATION OF MATERIAL TO BE UTILIZED.
24. ALL DRAINAGE SYSTEMS SHALL BE PUMPED DOWN TO BELOW ONE-THIRD OF THE DIAMETER OF THE PIPE (FROM THE INVERT) AND LAMPED AS A REQUIREMENT OF THE FINAL DRAINAGE INSPECTION.

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1850 FOREST HILL BLVD., SUITE 206
WEST PALM BEACH, FLORIDA 33406

PROJECT: **HEALTH PARK AT AVENIR**
DESCRIPTION: **PAVING AND DRAINAGE DETAILS**

JOB NO.

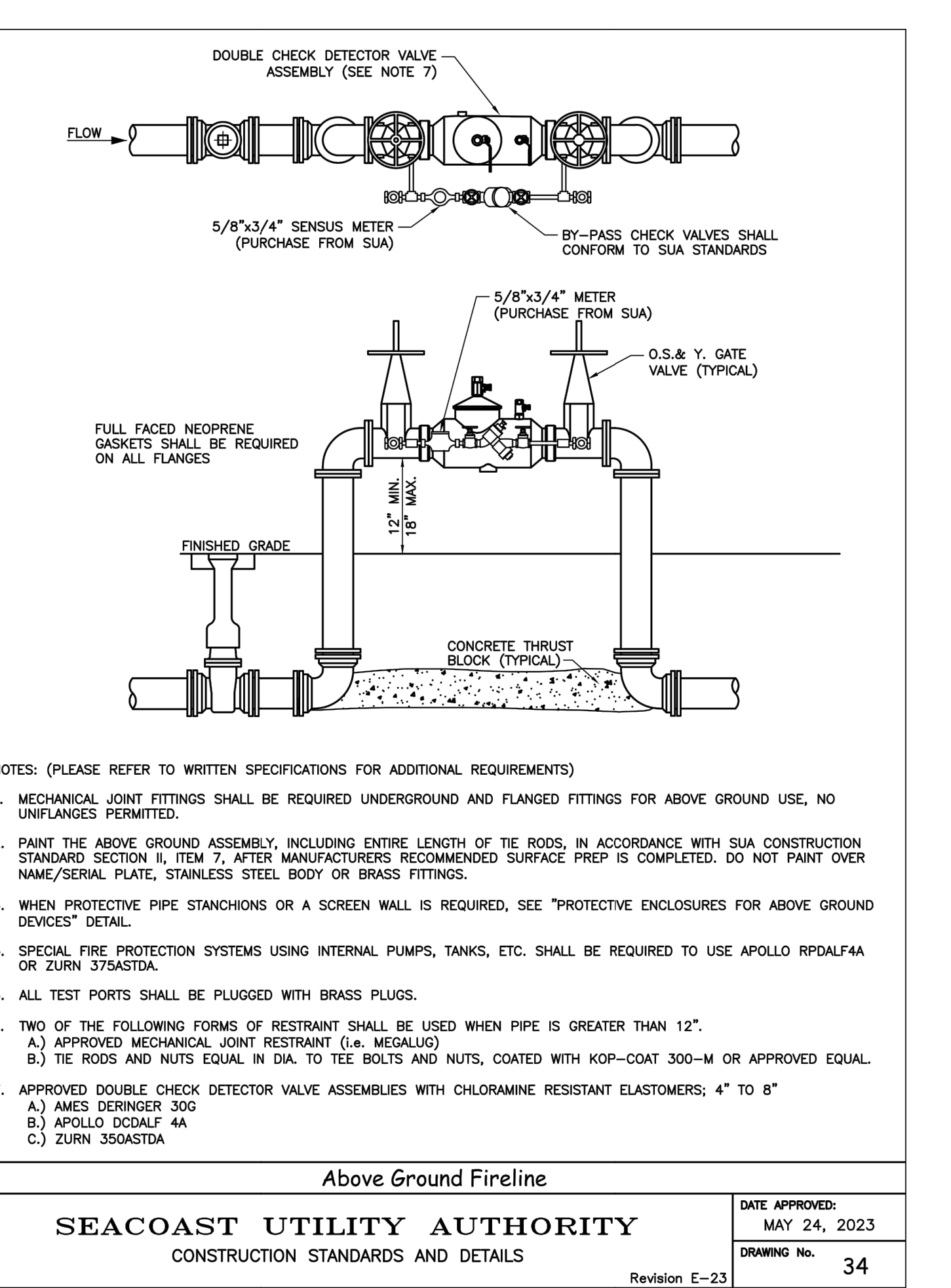
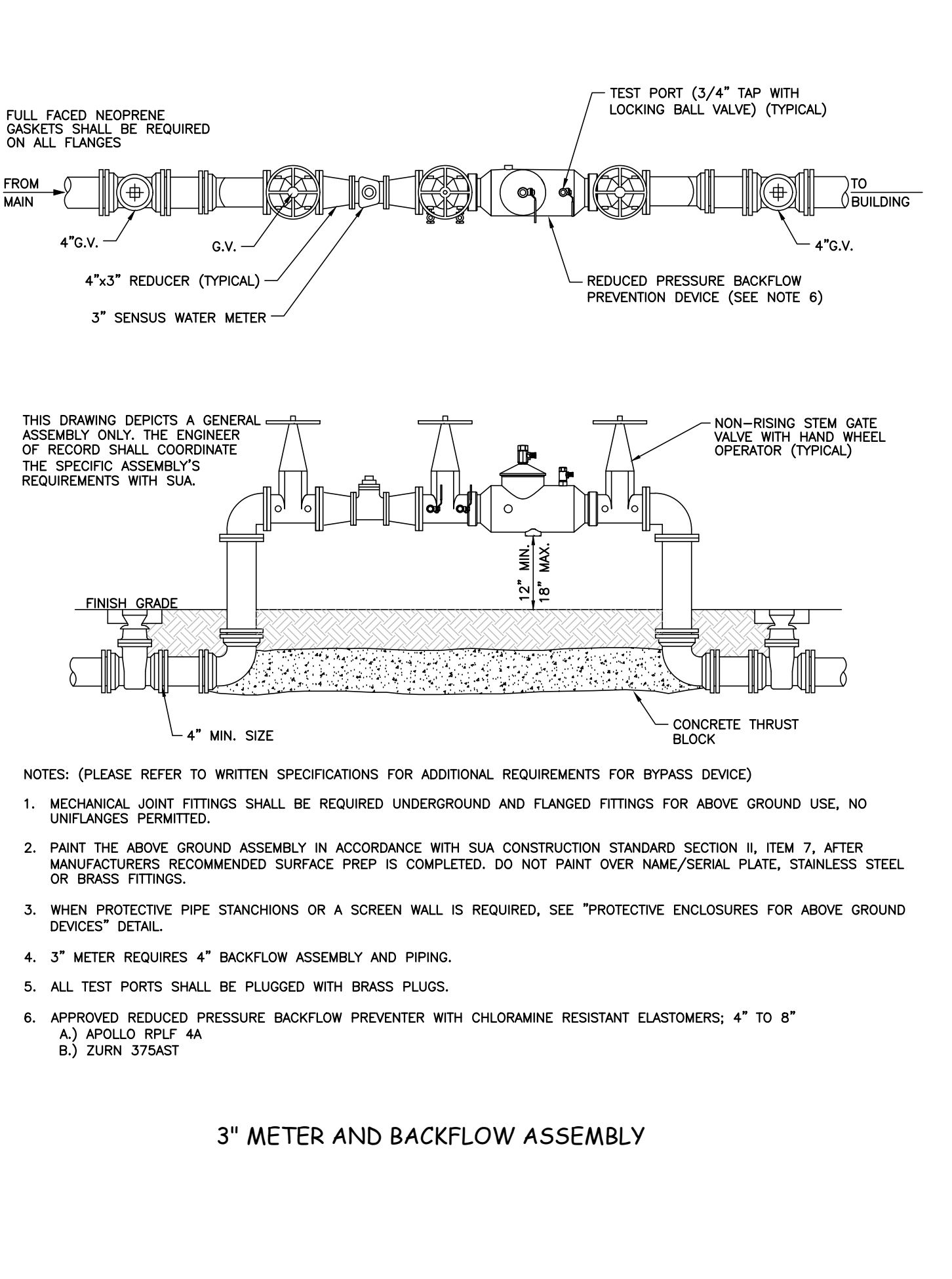
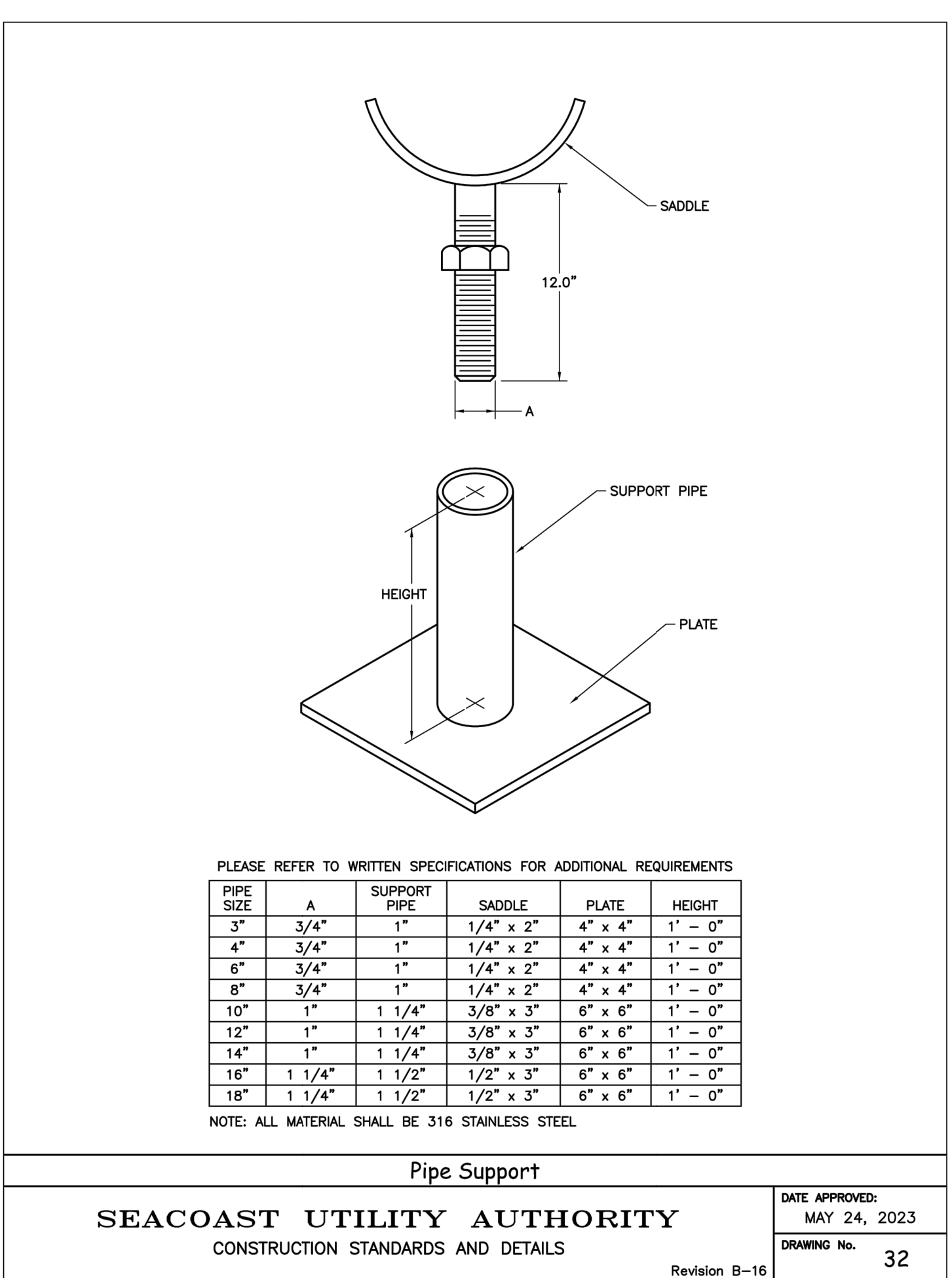
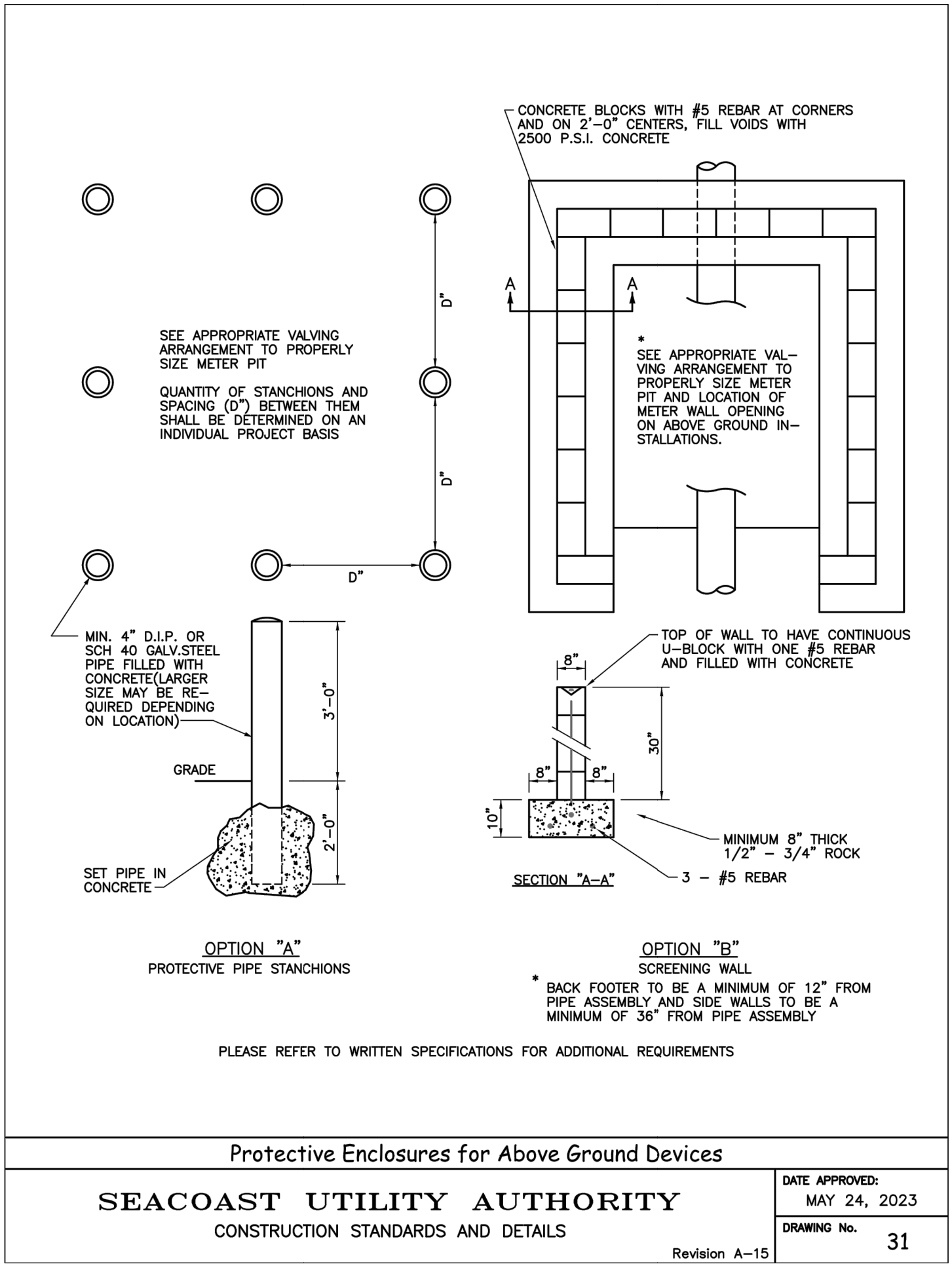
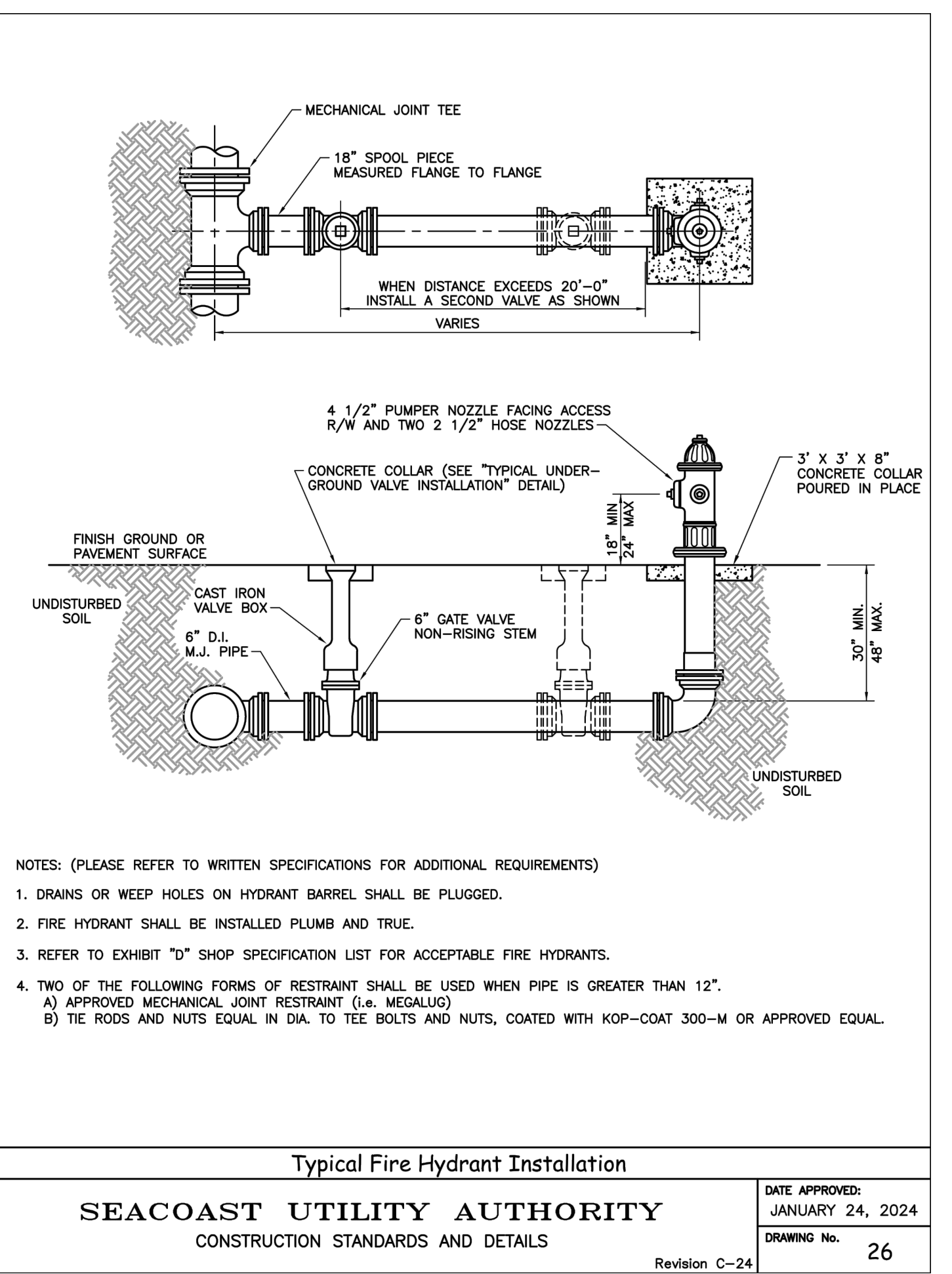
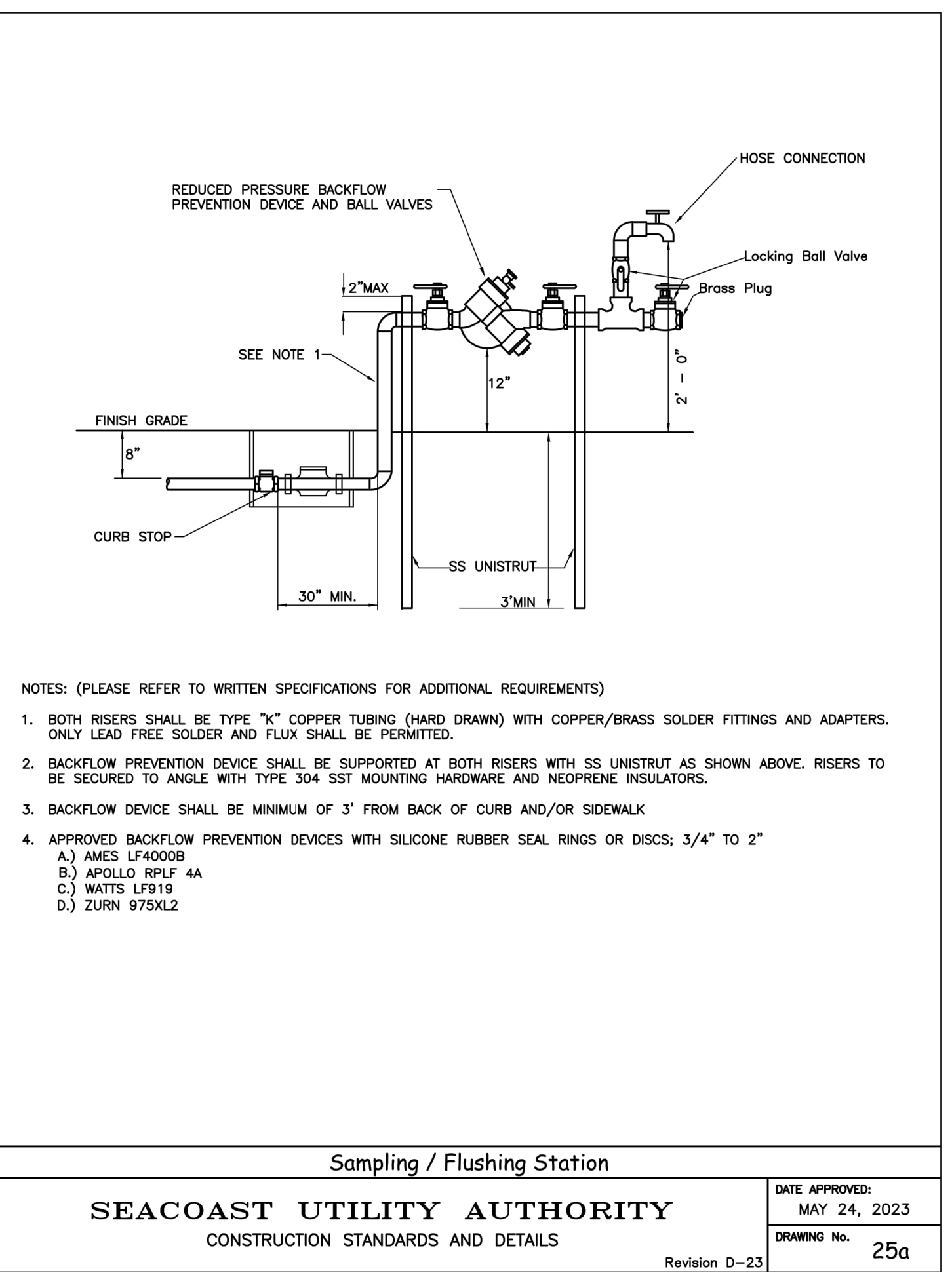
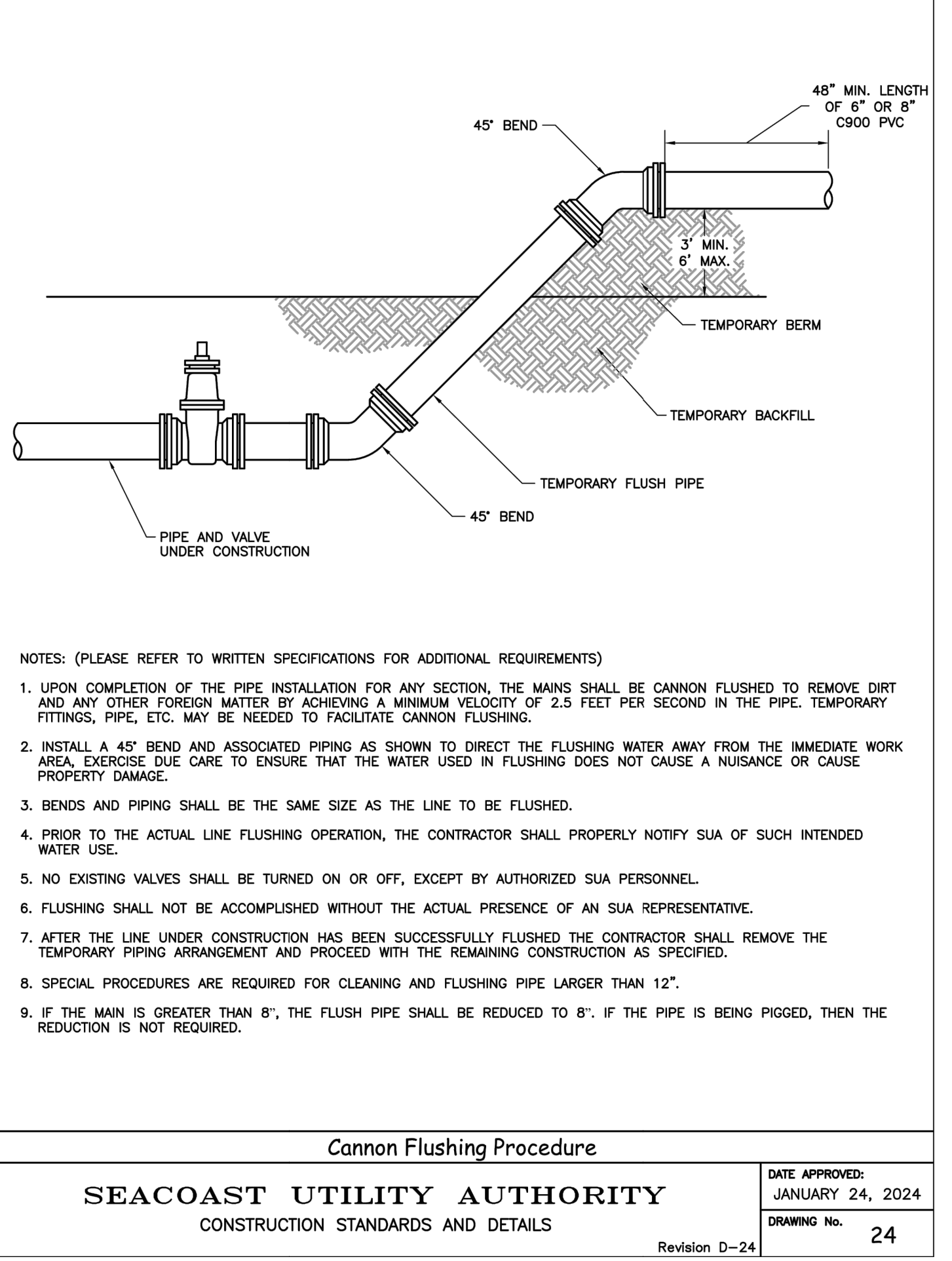
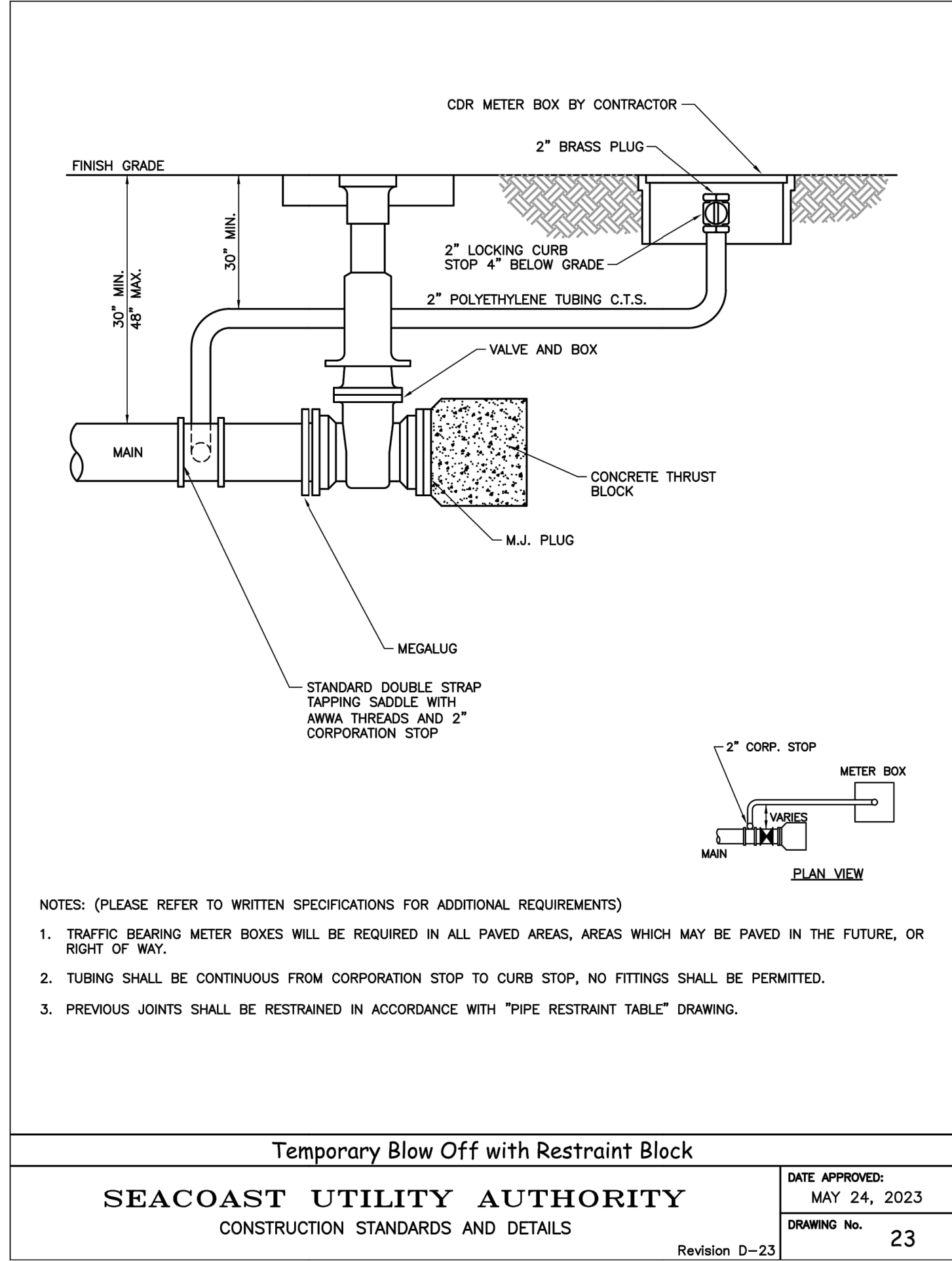
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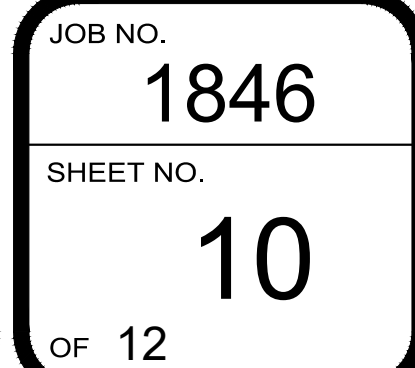
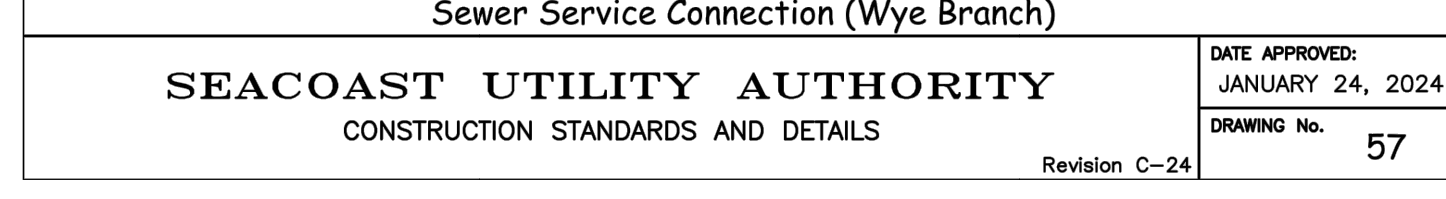
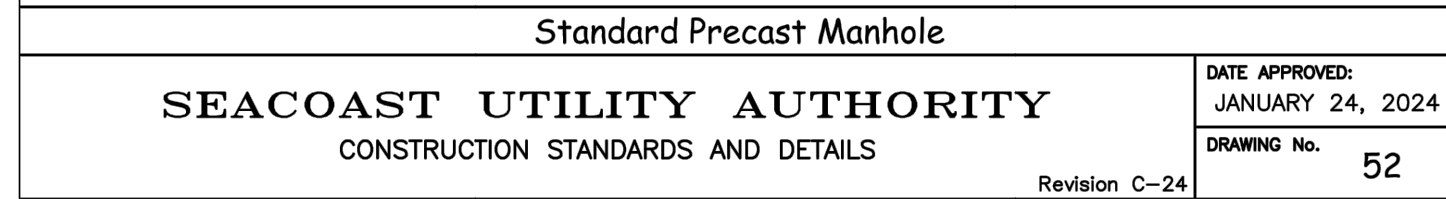
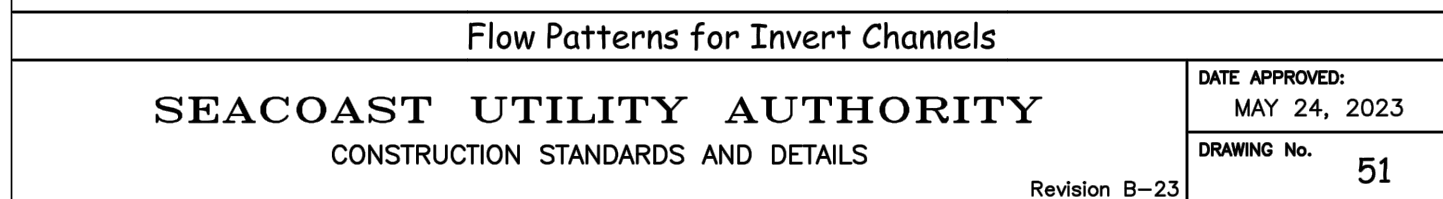
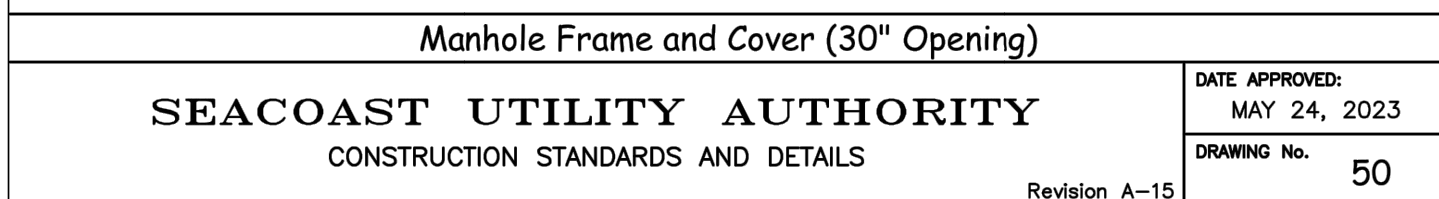
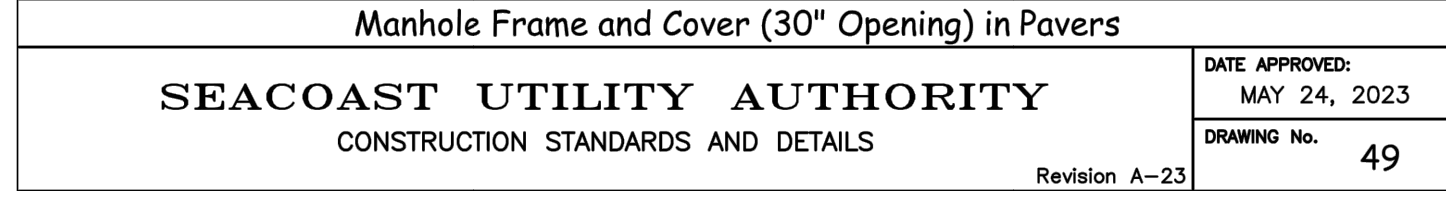
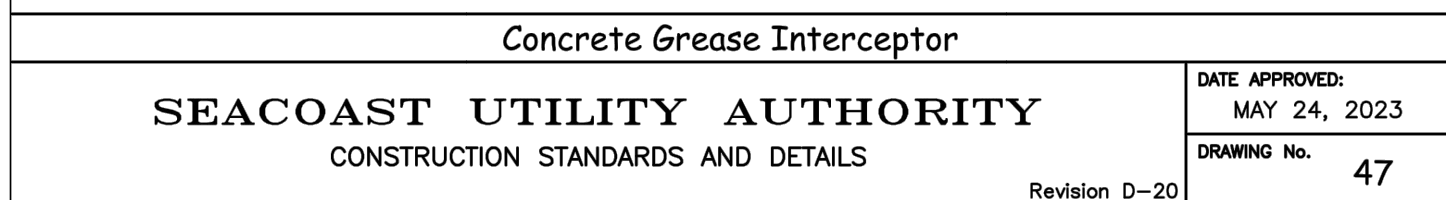
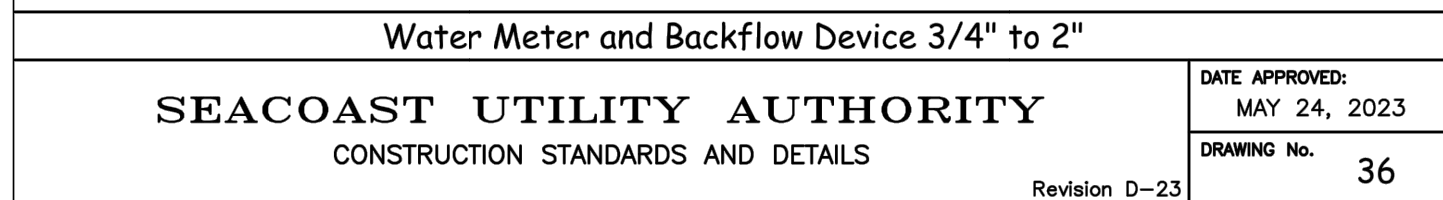
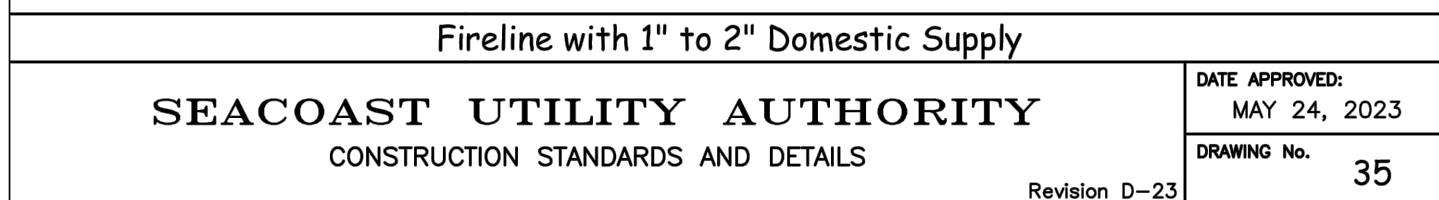


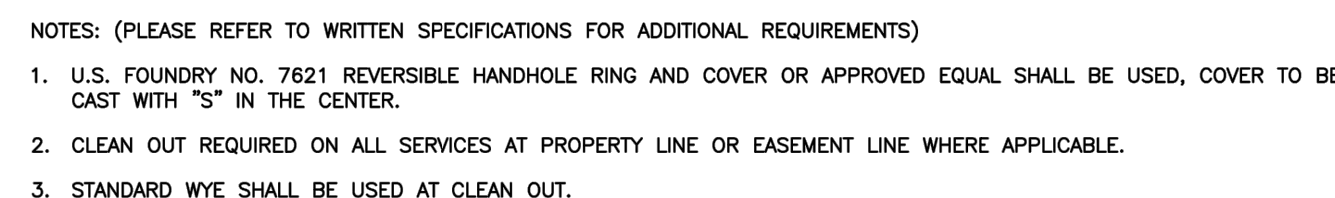
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SCALE: AS SHOWN
DATE: JAN 2024
DATE: JAN 2024
MARTHA H. CARTER, P.E., CFM
FLORIDA LICENSE #47589
FOR MICHAEL B. SCHORAH AND ASSOCIATES, INC.

PROJECT: HEALTH PARK AT AVENIR
DESCRIPTION: WATER AND SANITARY DETAILS
JOB NO. 1846
SHEET NO. 9
OF 12

REVISIONS

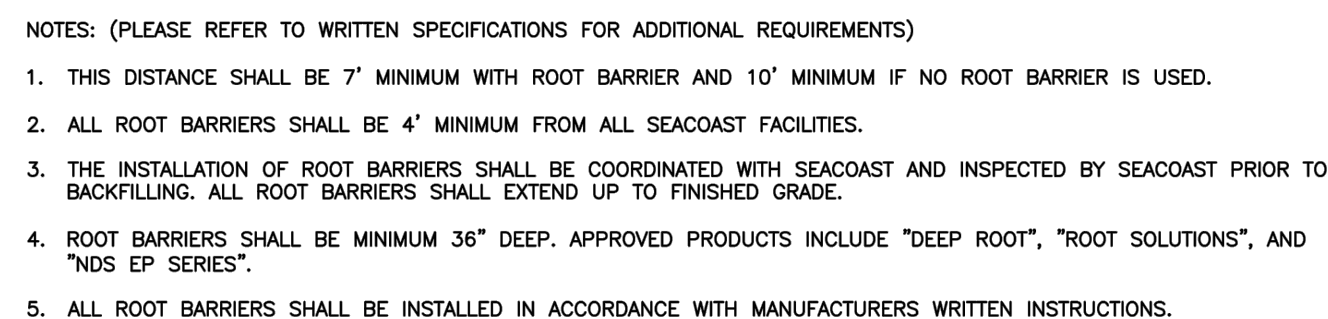




SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS

Revision C-20

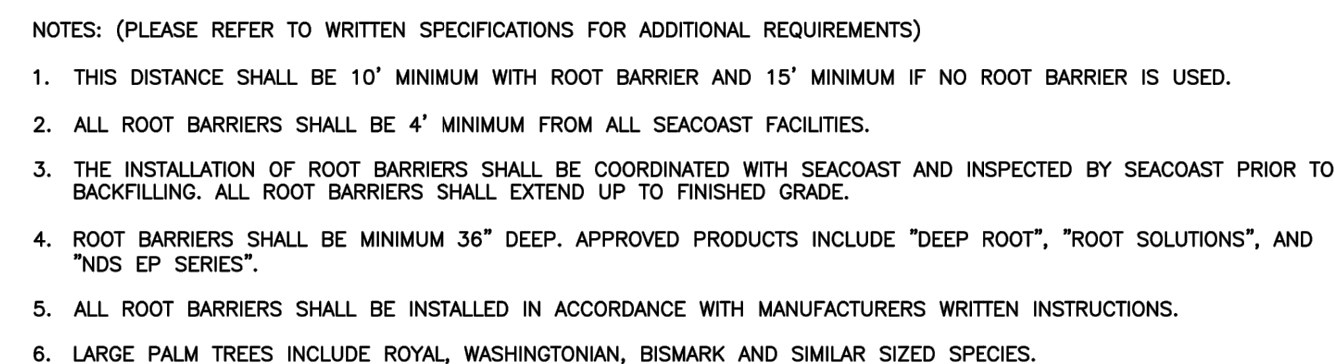
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Revision D-23

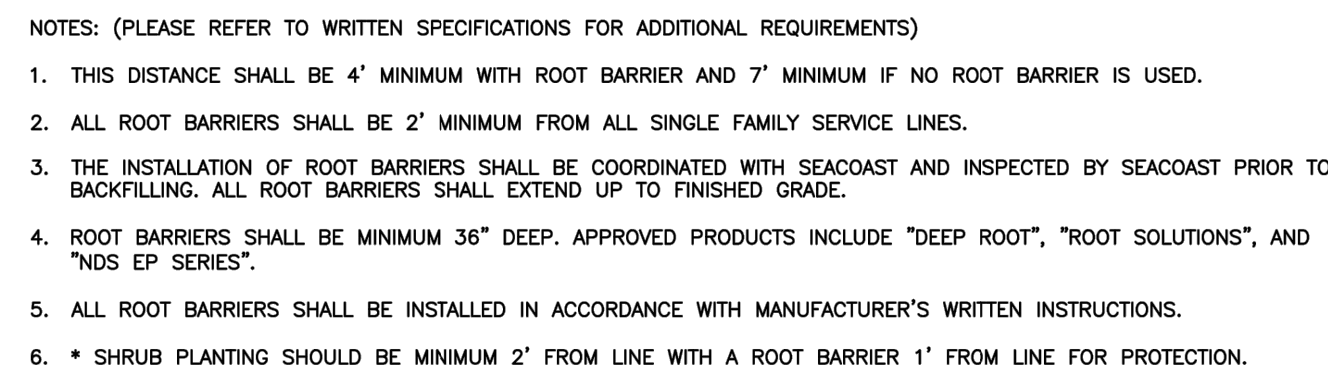
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Revision D-23

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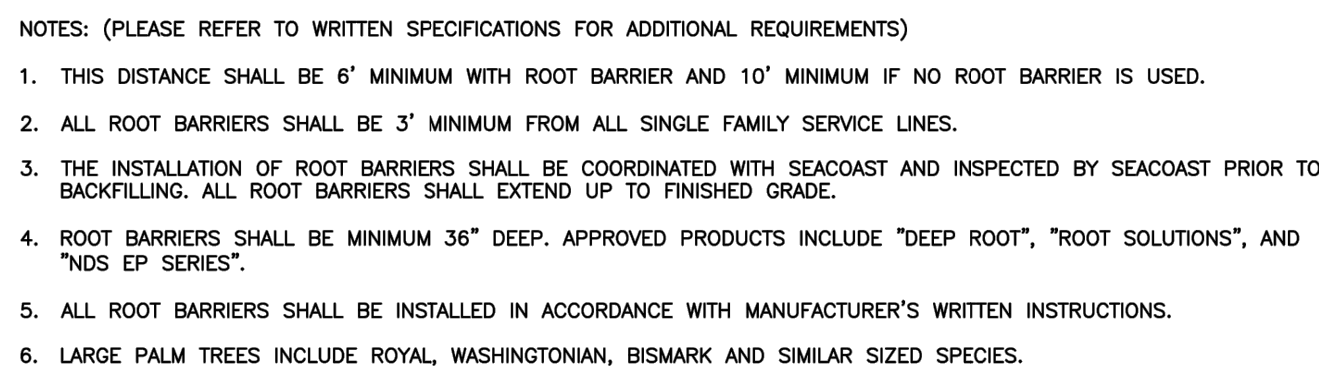


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CONSTRUCTION STANDARDS AND DETAILS

Revision B-23

DATE APPROVED:	MAY 24, 2023
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Revision B-23

DATE APPROVED:	MAY 24, 2023
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HEALTH PARK AT AVENIR

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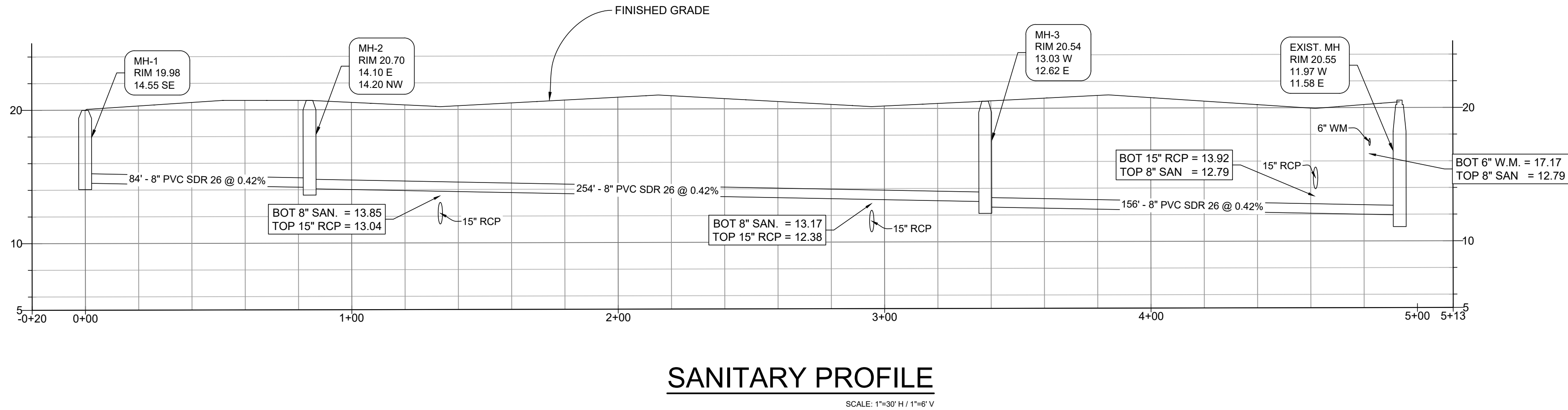
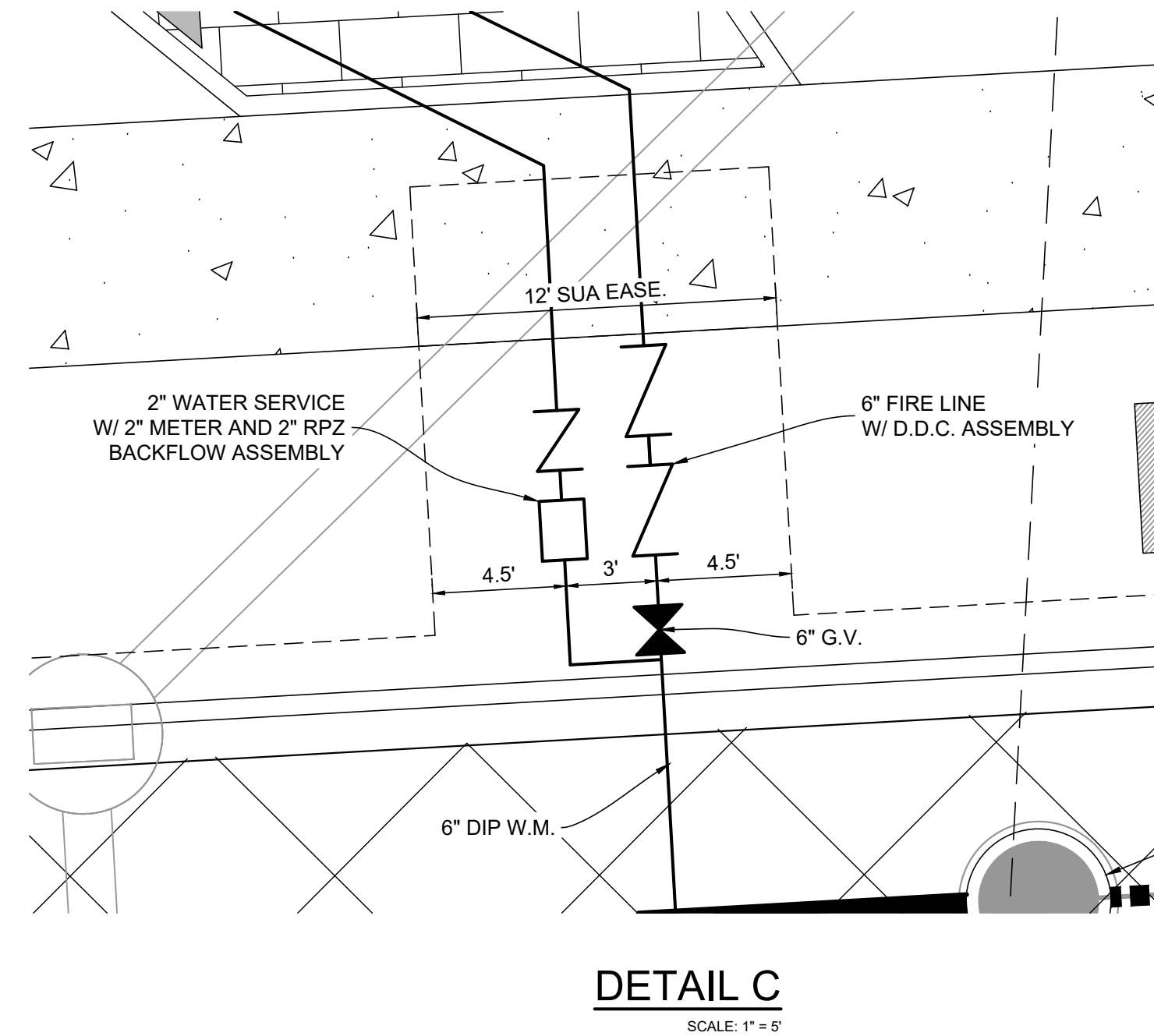
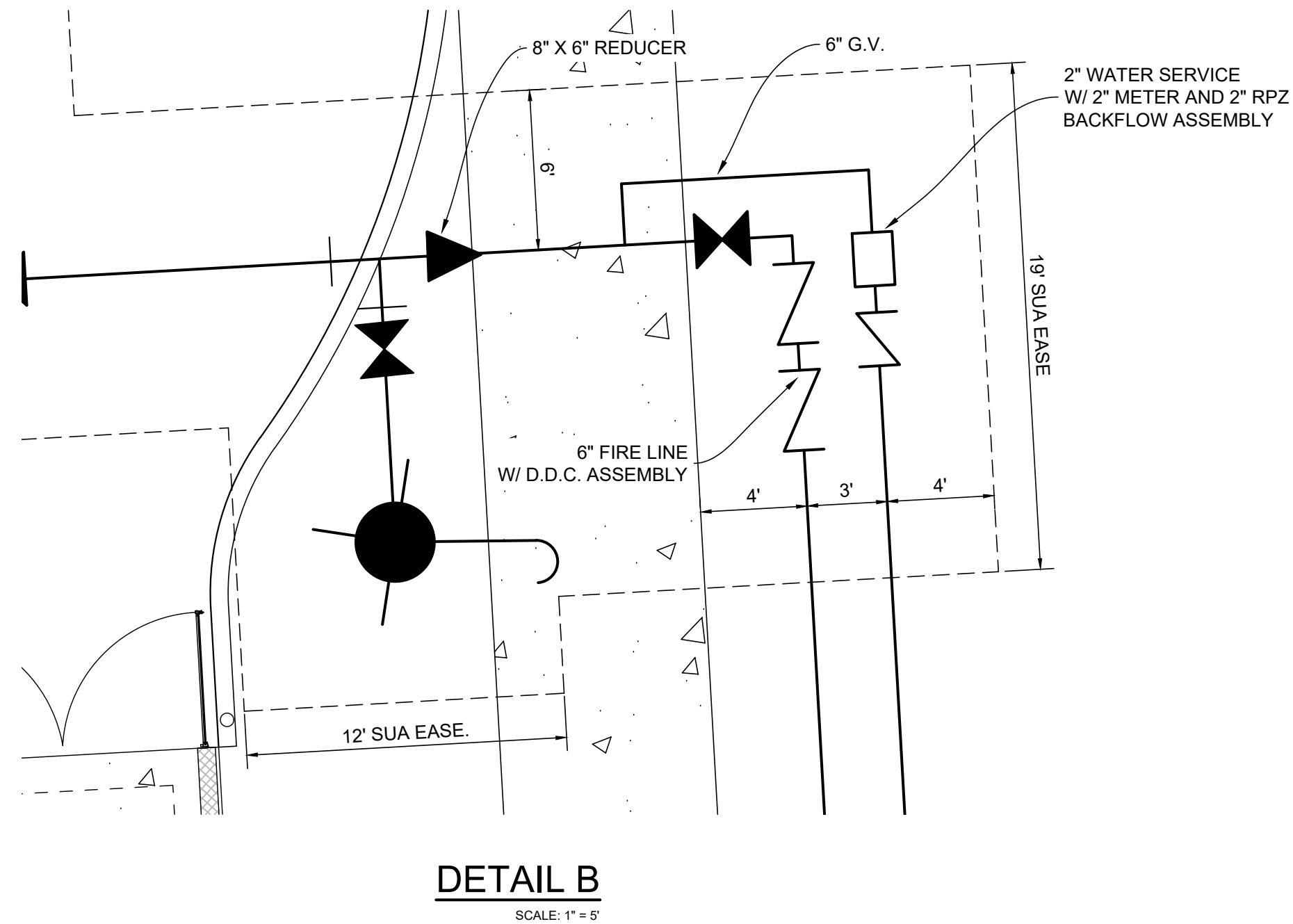
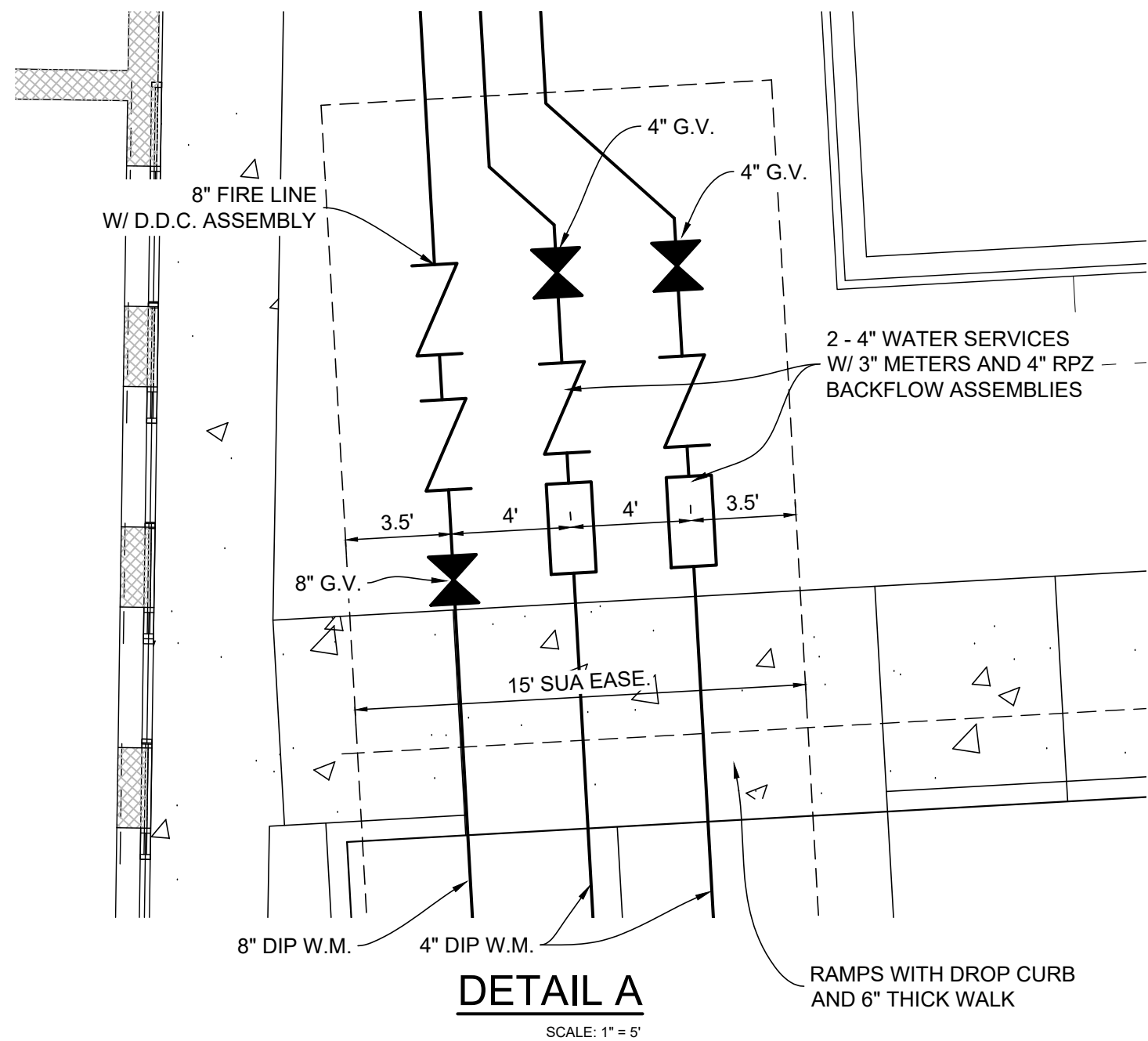
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JOB NO.
1846

SHEET NO.
11

OF 12

PATHNAME: P:\1846 AVENIR HEALTH PARK\CIVIL\CAD\1846 DEV.DWG
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METER ASSEMBLY DETAILS

ALL ELEVATIONS SHOWN ARE NAVD 88
CONVERSION: NGVD = NAVD + 1.51'

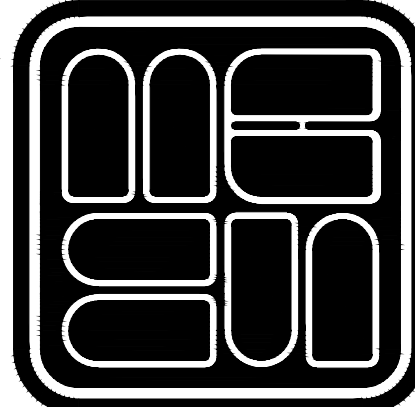
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7-11-24: REV. PER SUA
7-26-24: REV. PER SFRMD
8-8-24: REV. PER SUA

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