

LEGEND

- PROPOSED SITE EXPANSION
- PROPOSED PROJECT AREA
- FEMA LINE
- EXISTING SITE

Legend

- (D) -Denotes Deed Data
- (F) -Denotes Field Measurement
- Denotes Wood Utility Pole
- XOE -Denotes Overhead Utility Line
- Denotes Guy Anchor
- Denotes Electrical Hand Hole
- Denotes Cable Hand Hole
- Denotes Telephone Riser
- Denotes Palm Tree
- Denotes Oak Tree & Size
- Denotes Pipe Tree & Size
- Denotes Sea grape Tree & Size
- Denotes Unknown Species Tree & Size
- Denotes Spot Elevation
- RCP -Denotes Reinforced Concrete Pipe
- Denotes Vinyl Fence
- Denotes Chain Link Fence
- Denotes Water Meter
- Denotes Backflow Preventer
- Denotes Fire Hydrant
- Denotes Mitered End Section
- Denotes 5/8" Capped Iron Rod Found PSM 6822 Unless Otherwise Noted
- Denotes Water Gate Valve
- Denotes Sewer Line
- Denotes Water Line Flagged by Others
- Denotes Frontier Line Flagged by Others
- Denotes Comcast Line Flagged by Others
- Denotes Electrical Line Flagged by Others

REV.	DATE	DESCRIPTION	REVISION
1	12/27/2025	REVISED PER CITY COMMENTS. NEW SURVEY INFORMATION REFLECTED	
2	02/20/2025	REVISED PER CITY COMMENTS. MPA - REQUIRED BLDG SETBACK 50'	

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
MELANIE DELEHANTY SMITH, PE
ON THE DATE ADJACENT TO THE SEAL.

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

MELANIE DELEHANTY SMITH, PE FL #75447
PROFESSIONAL ENGINEER

DATE: 08/20/24
DRAWN BY: BB
CHECKED BY: MDS
JOB NO: 2024-003

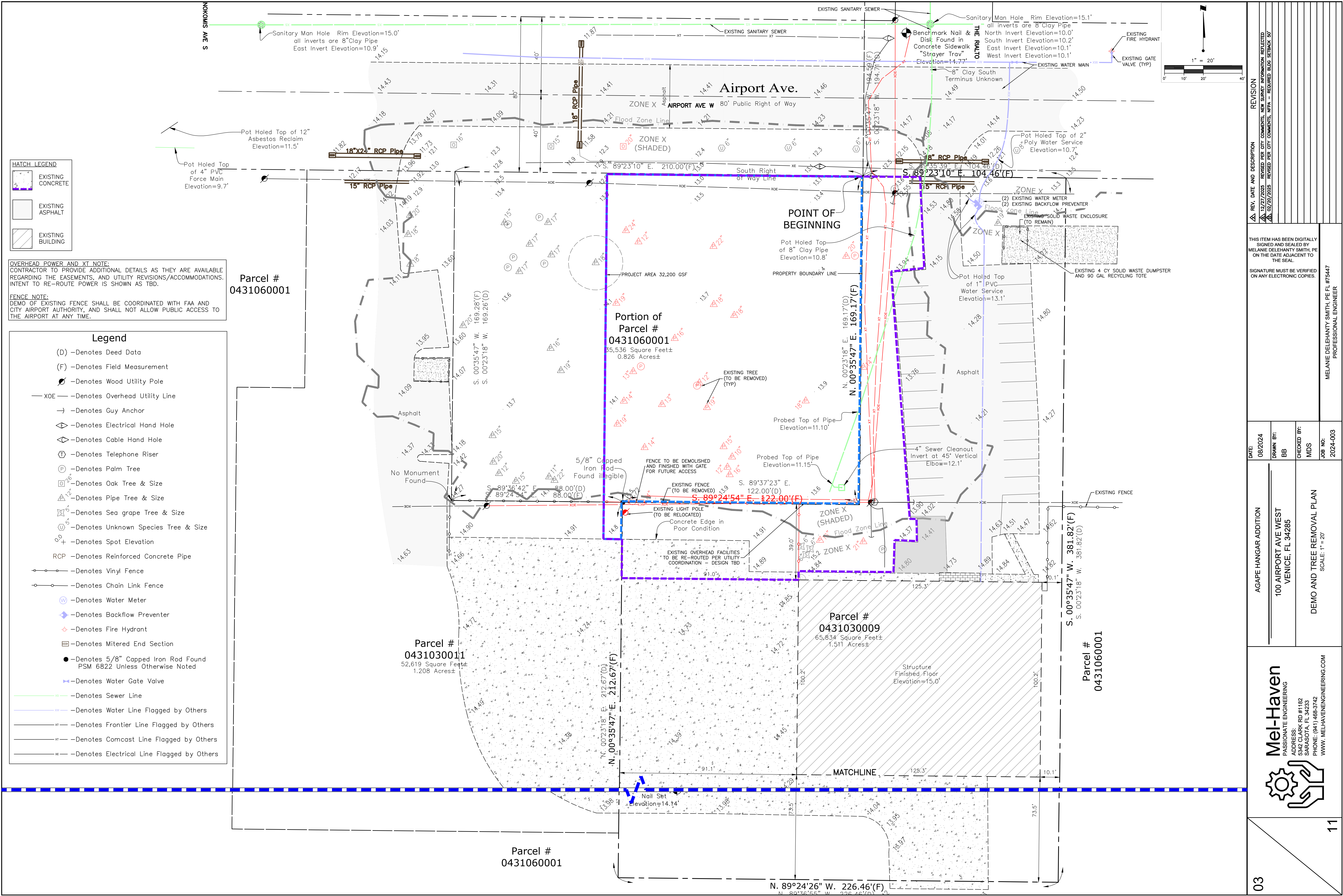
AGAPE HANGAR ADDITION
100 AIRPORT AVE WEST
VENICE, FL 34285

EXISTING CONDITIONS WITH AERIAL
SCALE: 1" = 30'

Mel-Haven
PASSIONATE ENGINEERING
ADDRESS: 5342 CLARK RD #1182
SARASOTA, FL 34233
PHONE: (941) 468-3742
WWW.MELHAVENENGINEERING.COM

02

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HATCH LEGEND

- EXISTING CONCRETE
- EXISTING ASPHALT
- EXISTING BUILDING

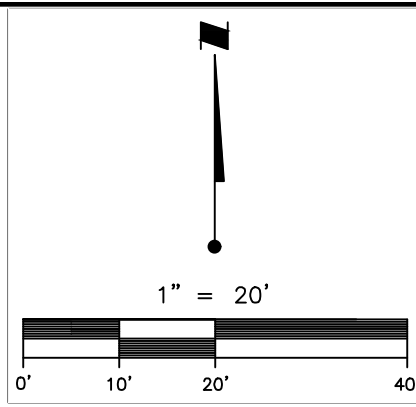
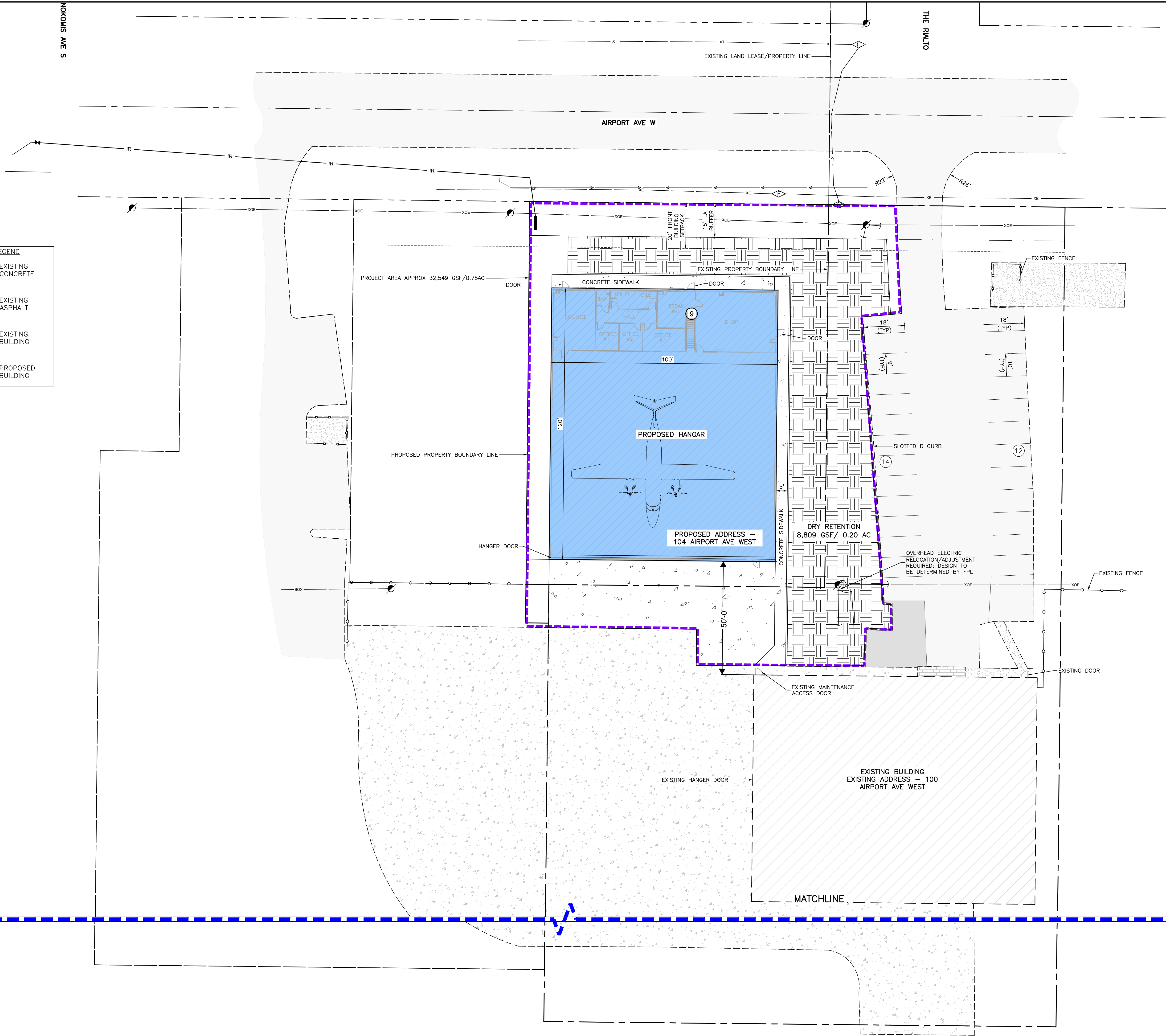
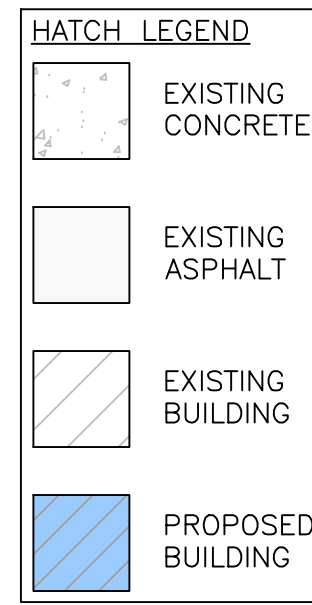
OVERHEAD POWER AND XT NOTE:
CONTRACTOR TO PROVIDE ADDITIONAL DETAILS AS THEY ARE AVAILABLE REGARDING THE EASEMENTS, AND UTILITY REVISIONS/ACCOMMODATIONS. INTENT TO RE-ROUTE POWER IS SHOWN AS TBD.

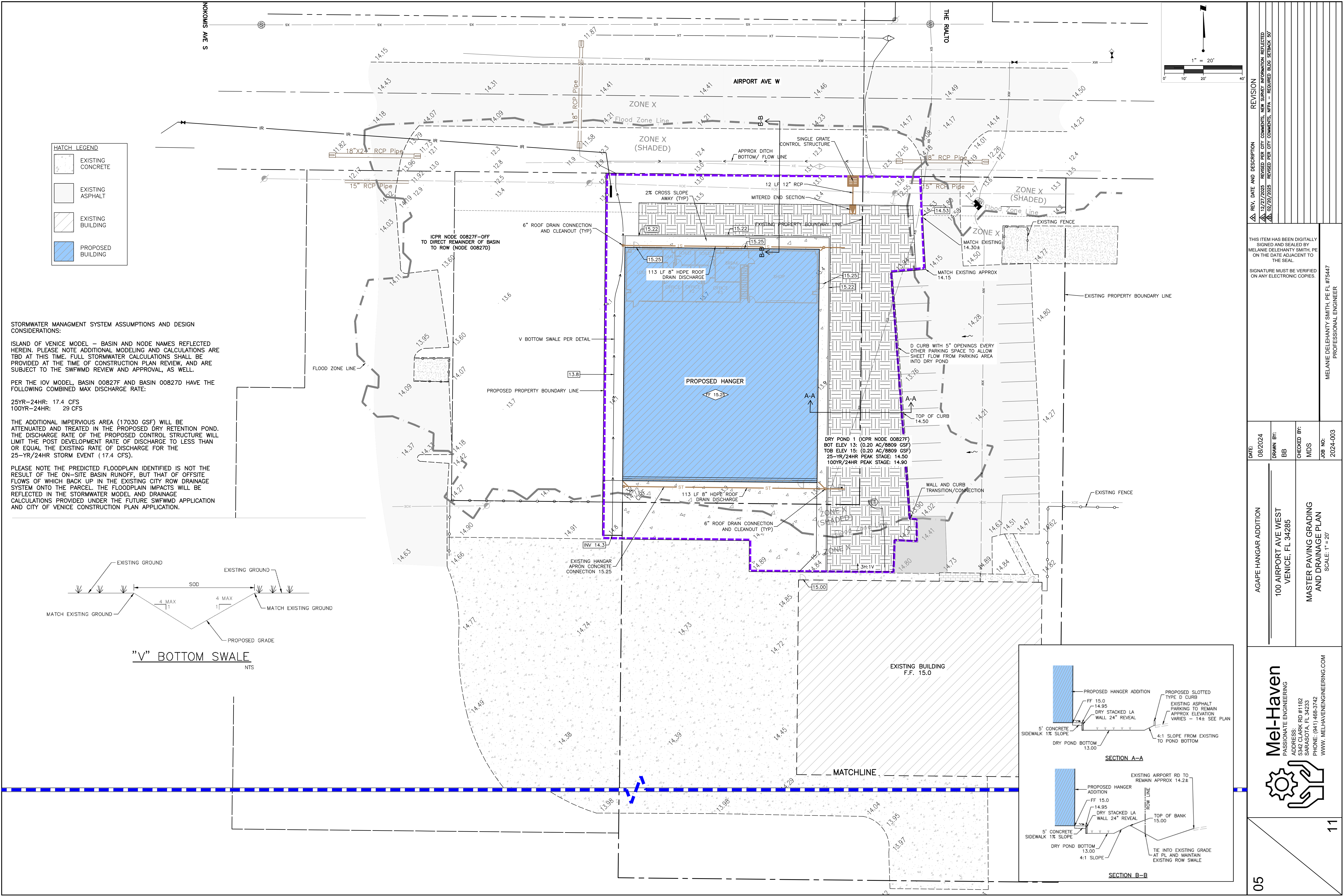
FENCE NOTE:
DEMO OF EXISTING FENCE SHALL BE COORDINATED WITH FAA AND CITY AIRPORT AUTHORITY, AND SHALL NOT ALLOW PUBLIC ACCESS TO THE AIRPORT AT ANY TIME.

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	REV. DATE AND DESCRIPTION	02/27/2025	REVISED PER CITY COMMENTS. MPA - REQUIRED BLUE STICK 50
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MELANIE DELEHANTY SMITH, PE ON THE DATE ADJACENT TO THE SEAL.			
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DATE: 08/2024		DRAWN BY: BB	CHECKED BY: MDS
AGAPE HANGAR ADDITION		100 AIRPORT AVE WEST VENICE, FL 34285	
DEMO AND TREE REMOVAL PLAN		SCALE: 1" = 20'	
Mel-Haven		PASSIONATE ENGINEERING	
ADDRESS: 5342 CLARK RD #1182 SARASOTA, FL 34233		PHONE: (841) 468-3742 WWW.MELHAVENENGINEERING.COM	
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02/20/2025	REVISED PER CITY COMMENTS. MPA - REQUIRED BLUE STICK 50		

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PROFESSIONAL ENGINEER

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JOB NO: 2024-003

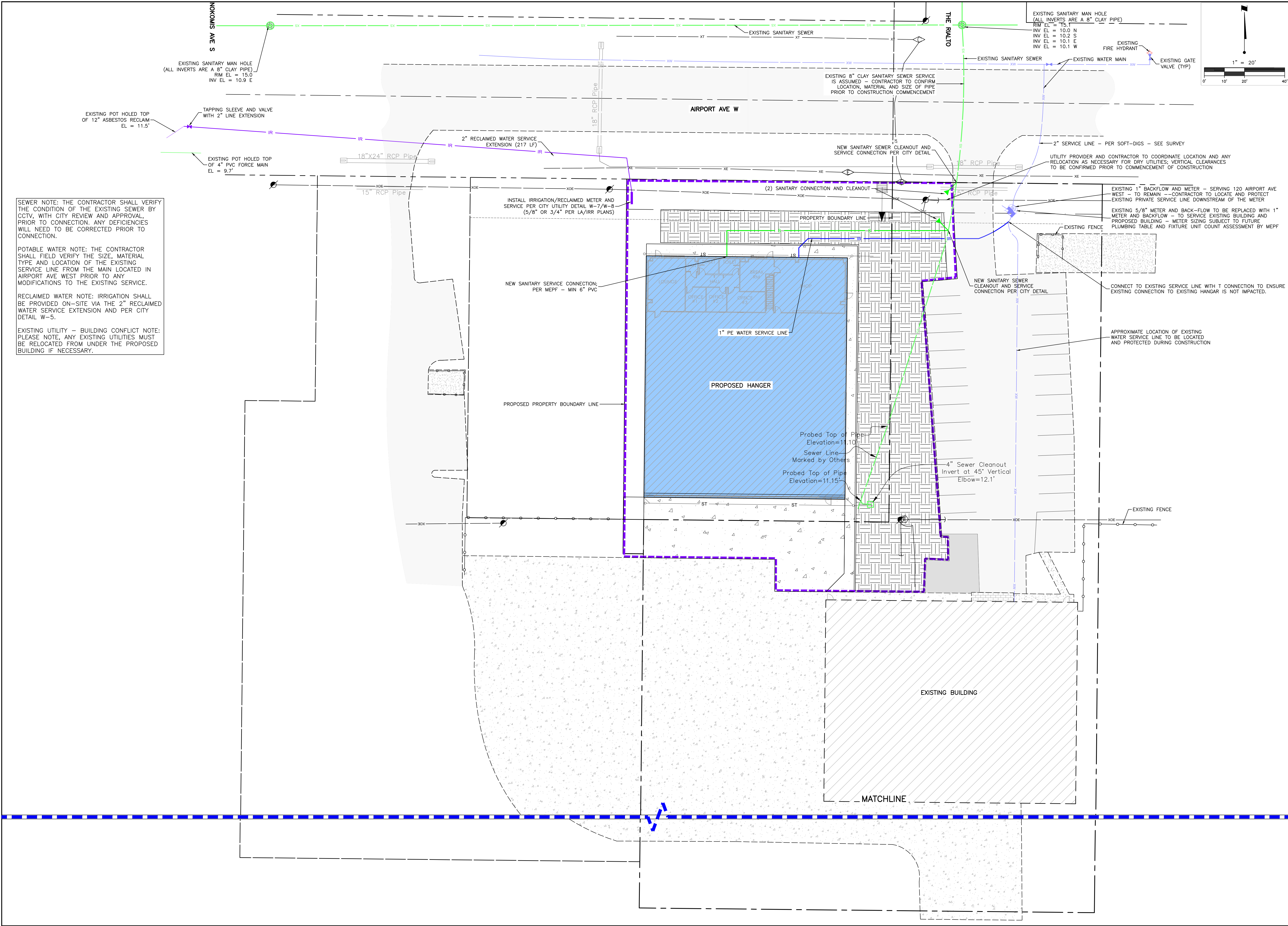
AGAPE HANGAR ADDITION
100 AIRPORT AVE WEST
VENICE, FL 34285

MASTER PAVING GRADING AND DRAINAGE PLAN
SCALE: 1"=20'

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SARASOTA, FL 34233
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SEWER NOTE: THE CONTRACTOR SHALL VERIFY THE CONDITION OF THE EXISTING SEWER BY CCTV, WITH CITY REVIEW AND APPROVAL, PRIOR TO CONNECTION. ANY DEFICIENCIES WILL NEED TO BE CORRECTED PRIOR TO CONNECTION.

POTABLE WATER NOTE: THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, MATERIAL TYPE AND LOCATION OF THE EXISTING SERVICE LINE FROM THE MAIN LOCATED IN AIRPORT AVE WEST PRIOR TO ANY MODIFICATIONS TO THE EXISTING SERVICE.

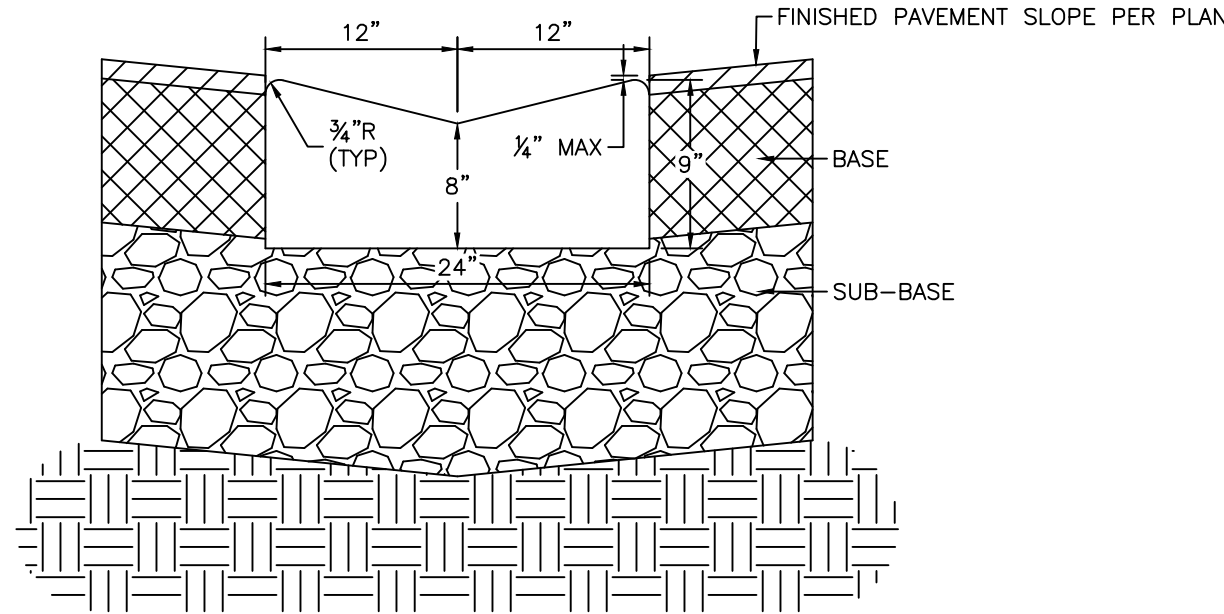
RECLAIMED WATER NOTE: IRRIGATION SHALL BE PROVIDED ON-SITE VIA THE 2" RECLAIMED WATER SERVICE EXTENSION AND PER CITY DETAIL W-5.

EXISTING UTILITY – BUILDING CONFLICT NOTE: PLEASE NOTE, ANY EXISTING UTILITIES MUST BE RELOCATED FROM UNDER THE PROPOSED BUILDING IF NECESSARY.

06		Mel-Haven PASSIONATE ENGINEERING ADDRESS: 5342 CLARK RD #1182 SARASOTA, FL 34233 PHONE: (941) 468-3742 WWW.MELHAVENENGINEERING.COM	AGAPE HANGAR ADDITION 100 AIRPORT AVE WEST VENICE, FL 34285		DATE: 08/2024	THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MELANIE DELEHANTY SMITH, PE ON THE DATE ADJACENT TO THE SEAL.		REVISION 12/27/2025 REVISED PER CITY COMMENTS. NEW SURVEY INFORMATION REFLECTED 02/20/2025 REVISED PER CITY COMMENTS. MTPA - REQUIRED BLDG SETBACK 50'
			MASTER UTILITY PLAN SCALE: 1" = 20'		DRAWN BY: BB	CHECKED BY: MDS	SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.	
					JOB NO: 2024-003	MELANIE DELEHANTY SMITH, PE FL #75447 PROFESSIONAL ENGINEER		

GENERAL CONSTRUCTION NOTES:

- Elevations shown hereon are in feet and decimals referenced to NAVD 88 and are based on National Geodetic Survey Benchmark # G 252, published elevation is 15.30'.
- Locations, elevations, and dimensions of existing utilities, structures and other features are shown according to the best information available at the time of preparation of these plans. The contractor shall verify the locations, elevations and dimensions of all existing utilities, structures and other features affecting this work prior to construction and notify EOR of any discrepancies.
- The Contractor shall exercise extreme caution in areas of buried utilities and shall provided at least 48 hours' notice to the various utility companies, in order to permit marking the locations of existing underground utilities, in advance of construction by calling "Sunshine" at 1-800-432-4770. The contractor is responsible for contacting all utilities not included in the "sunshine" program.
- The contractor shall be responsible for repairing any damage to existing facilities above or below ground that may occur as a result of the work performed by the contractor.
- All underground utilities must be in place and tested or inspected prior to pavement and structure construction.
- It is the contractor's responsibility to become familiar with the permit and inspection requirements of the various governmental agencies the contractor shall obtain all necessary permits prior to construction and schedule inspection according to agency requirements and codes.
- All specifications and documents reference by the plans and permits shall be of latest revisions and/or latest edition.
- All work by contractor(s) shall comply with the regulations and ordinances of the various governmental agencies having jurisdiction over the work.
- The contractor shall submit for approval to the owner's engineer, shop drawings on all proposed precast and manufactured structures. Failure to obtain approval before installation may result in removal and replacement at the contractor's expense. All shop drawings are to be reviewed and approved by contractor signature prior to submittal to the owner's engineer.
- The contractor shall notify the EOR and appropriate agencies and provide them with all required shop drawings, the contractor's name, starting date, projected schedule, and other information as required, at least two (2) working days prior to work performed. Any work performed prior to notifying the engineer or without agency inspector present may be deemed non-compliant and will be subject to removal and replacement at the contractor's expense.
- Backfill material shall be compacted around pipes in 6" lifts up to a level of at least one foot above the topo and below bottom of the pipe. In areas to be paved, backfill shall be compacted to 100% maximum density as determined by AASHTO T-99.
- Site work concrete shall have a minimum compressive strength of 4,000 PSI on 28 days, unless otherwise noted
- Concrete reinforcing shall conform with ASTM A615 grade or better, unless otherwise indicated on structure plans.
- All private and public property affected by the work shall be restored to a condition equal to or better than existing conditions. Additional costs shall be coordinated between contractor and vendor.
- The contractor shall utilize the design surveyor to locate and flag all property corners prior to construction and final engineering inspection and certification. It shall be the contractor's responsibility to have property corners, which have been lost during construction, re-established by a professional land surveyor.
- The soils engineer is to supply the engineer with a photocopy of all compaction tests, concrete and asphalt tests. The soils engineer is to certify to the engineer of record in writing, that all testing requirements required by the owner, local regulatory authority and the Florida Department of Transportation (FDOT) for the improvements as required by the engineering construction drawings and permits have been satisfied.
- The contractor is responsible for coordinating applicable testing with the soils engineer. Upon completion of the work, the soils engineer is to submit certifications to the owners engineer per note 17 above.
- The contractor is to review the design soil reports and boring prior to bidding the project and prior to commencing construction.
- The Contractor shall maintain a copy of the approved plans and permits at the construction site at all times.
- These drawings do not include necessary components for instruction of the contractor regarding construction safety. The contractor is solely responsible for means and methods for construction safety
- Construction and materials shall be in accordance with local standards and specifications. Plans are in accordance with local 'minimum drawing and submittal requirements for potable water, wastewater, and reclaimed water projects.
- State Plan coordinates (FEET) shall be provided for record drawings.
- The contractor shall be responsible for protecting excavations against collapse and will provide bracing, sheeting, or shoring as necessary. Trenches shall be kept dry while pipes and appurtenances are being placed. Dewatering shall used where required.
- Prior to constructing concrete pavement, the contractor is to submit a proposed jointing pattern to the owners engineer for approval.
- The contractor is to provide a 1/2" bituminous expansion joint material with sealer, at abutment of concrete and any structure.
- PVC Storm pipe, 12" and smaller shall conform to AWWA C-900, Class 150 Standards, unless otherwise noted.
- All drainage structure grates and covers within Traffic Areas shall be traffic rated for and capable of withstanding H-20 loadings.
- Materials and construction methods for streets and storm drainage construction shall be in accordance with the local regulatory agency and the FDOT standard specification for roads and bridge construction (current edition).
- The Contractor shall provide sufficient survey related data and employ the construction surveyor to prepare Record drawings meeting the applicable jurisdictions.
- Roof Drainpipes shall be PVC (SCH 40) or approved equal, as indicated on the plan.
- All the signing and pavement markings shall be provided in accordance with the latest editions of the MUTCD, FDOT Design Standards, and the City of Venice Public Works Dept and Engineering Dept. Traffic Control Devices that do not conform to the latest editions of the manatee county public works department within publicly maintained ROW will require a sign and hardware diagram and, if acceptable, an executed maintenance agreement prior to approval of the construction plan.
- The stormwater system shall be subject to a visual inspection by the owner's engineer prior to the placement of backfill, of which the contractor shall notify the engineer 48 hours prior to any inspections.
- The contractor shall maintain the storm drainage systems until final acceptance of the project.
- The contractor is responsible for coordinating all testing required by the construction plans, and with the soils engineer.
- Contractor is responsible to obtain and maintain the site as directed by an FDEP NPDES NOI permit. Contractor is responsible for monitoring the site and preparation prior to and during rain events.
- City of Venice Utility Standards are the minimum standards for all utilities. Where any note on these plans to conflict with the manatee county public works utility standards the most stringent interpretation, as determined by the county infrastructure inspector, shall be applied.
- All potable water facilities from the tie-in up to the backflow preventor and all wastewater facilities within the public ROW or public utility easements shall be county owned and maintained. All potable water facilities downstream of the meter and all wastewater facilities outside of the public utility easement shall be privately owned and maintained.
- A minimum of 10-feet of horizontal separation is required between watermain and force mains, and between watermain and gravity sewer and between watermain and storm sewer. See F.A.C. Rule 62-555.314 for additional details.

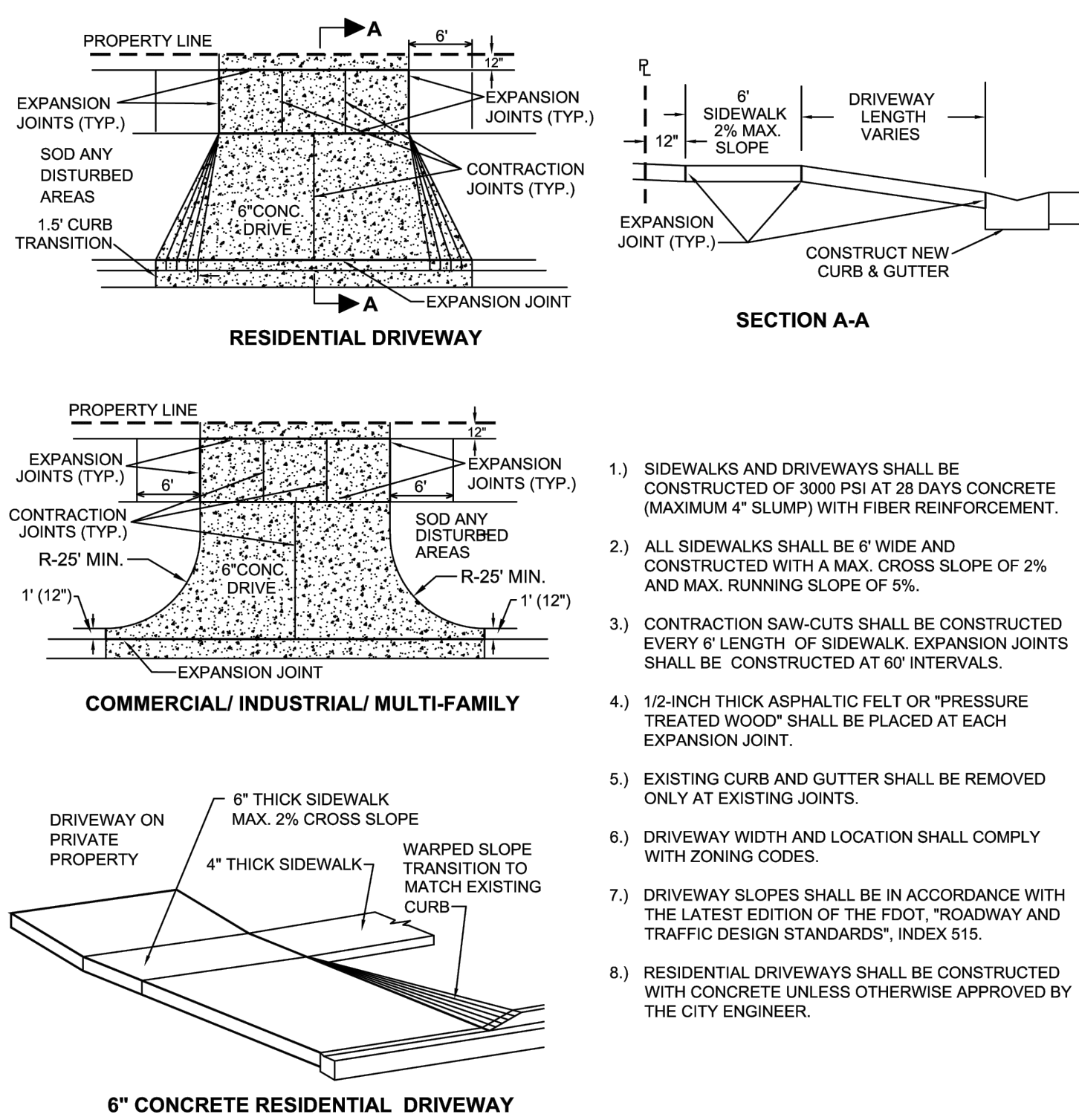


CURB NOTES:

- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS UNLESS OTHERWISE NOTED.
- WHEN USED ON THE HIGH SIDE OF THE ROADWAYS THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE FACE WILL BE LESS
- AN EXPANSION JOINT WILL BE PLACED AT THE END OF ALL RETURNS AT INTERVALS NOT TO EXCEED 50' WITH THE CONTRACTION JOINTS AT 10' INTERVALS BETWEEN
- EXPANSION JOINTS SHALL BE CONSTRUCTED WITH 1/2" BITUMINOUS IMPREGNATED EXPANSION JOINT MATERIAL

VALLEY GUTTER

NTS



DRIVEWAY & SIDEWALK DETAIL

N.T.S.

CITY OF VENICE
ENGINEERING DEPARTMENT

401 W VENICE AVE
VENICE, FL 34285
(941) 486-2626

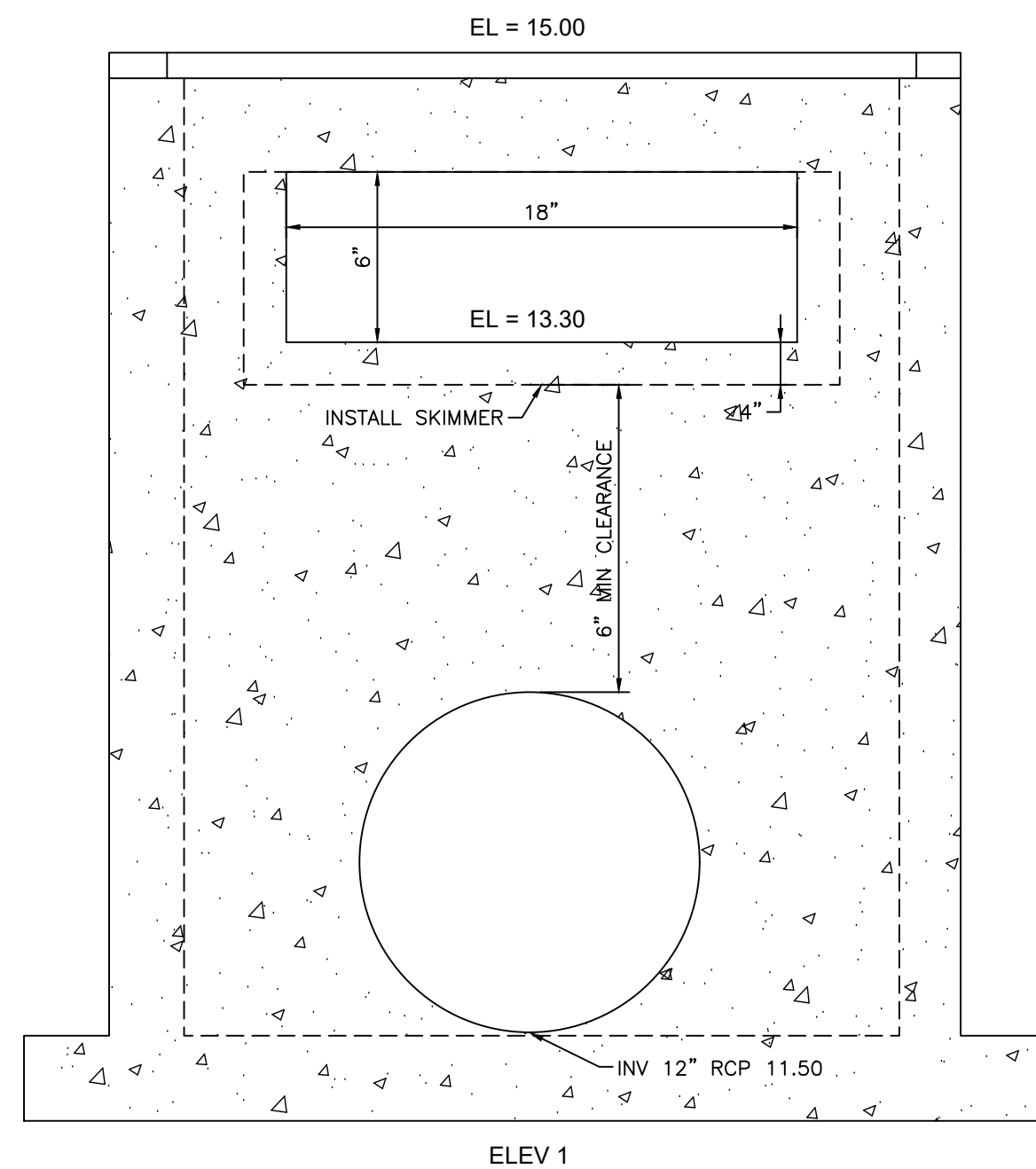


ENGINEERING

TYPICAL DRIVEWAY
& SIDEWALK

DATE
JAN 2024

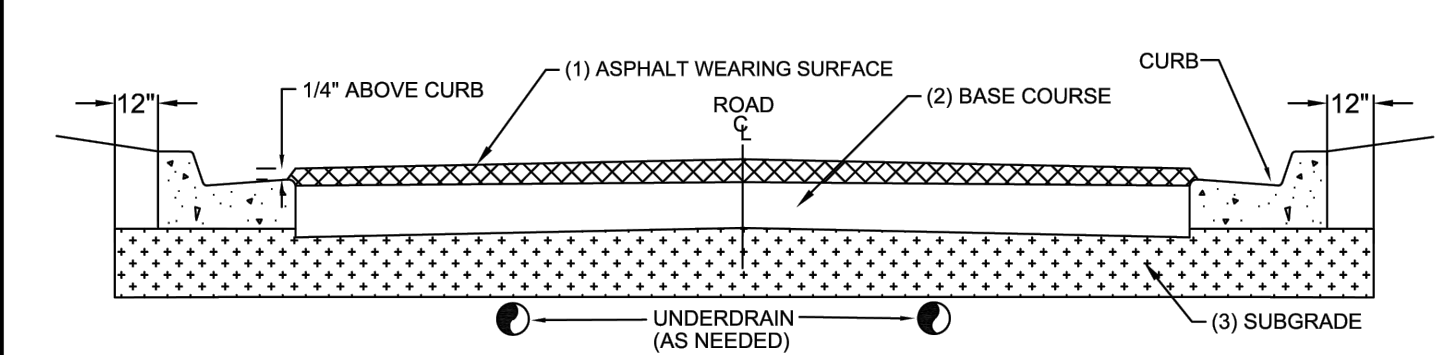
SHEET NO.
ENG-4



CONTROL STRUCTURE
(Per FDOT 425-052)

GRATE AND CONTROL STRUCTURE NOTES:

- SKIMMER TO BE INSTALLED AS DIMENSIONED, AND SHALL BE 3/16" THICK STAINLESS STEEL, 1/4" THICK ALUMINUM, OR 3/16" "GLASKIMER" HSS-HIGH STRENGTH COMPOSITE SHEET SKIMMER PLATE WITH OPEN TOP AND BOTTOM.
- 3/8" DIAMETER STAINLESS STEEL EXPANSION ANCHORS, 3" LONG MINIMUM WITH STAINLESS STEEL WASHERS AND NUTS. IF HEIGHT OF SKIMMER IS 12" OR LESS, 2 EACH SIDE REQUIRED.
- STAKEOUT POINT TO BE CENTER OF STRUCTURE. FIELD LOCATION TO FIT LAKE BANK OR FILL SLOPE MAY BE NECESSARY. LOCATION TO BE REVIEWED WITH ENGINEER PRIOR TO FIELD FINISH. BENCHMARK TO BE INSTALLED UPON COMPLETION OF CONSTRUCTION AND NOTED IN RECORD DRAWINGS.
- 3/4" CHAMFER ALL EXPOSED EDGES.



ROADWAY SECTION DESIGN (MINIMUM THICKNESS)

STREET CLASSIFICATION	(1) ASPHALT SURFACE:	(2) BASE: B-12.5 CTB	CCA	(3) SUB-GRADE: TYPE B STAB.
PRIVATE ACCESSWAY & LIGHT DUTY PARKING	2" TYPE SP-9.5 (INSTALLED AS TWO 1" LIFTS)	4"	8"	8"
INDUSTRIAL STREET (PUBLIC/PRIVATE)	2" TYPE SP-9.5 (INSTALLED AS TWO 1" LIFTS)	5"	10"	10"
COLLECTOR/ARTERIAL STREET	2" TYPE SP-12.5 & 1" TYPE FC-9.5	5"	10"	10"

- ALL STREETS WITHIN THE CITY LIMITS SHALL MEET THE MINIMUM DESIGN STANDARDS AS ESTABLISHED IN THIS DETAIL.
- ALL INSTALLATION METHODS AND MATERIALS SHALL CONFORM WITH THE LATEST EDITION OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- CRUSHED CONCRETE AGGREGATE (CCA) MUST HAVE AN LBR ≥150. SHELL IS NOT AN ACCEPTABLE BASE MATERIAL.
- CEMENT TREATED BASE:
 - THE MATERIAL TO BE USED AS THE FILLER AGGREGATE IN CTB MUST BE LBR TESTED PRIOR TO DESIGN FORMULATION (ADDING CEMENT). THIS MATERIAL MUST ACHIEVE AN LBR VALUE OF ≥ 100.
 - CTB DESIGN CRITERION SHOULD TARGET RANGE FROM 175 TO 275 PSI ON 7 DAY BREAK. TESTING MUST BE PROVIDED TO VERIFY THE COMPRESSIVE STRENGTH OF THE MIX.
- ALL GRANULAR COURSES OF ROAD CONSTRUCTION MUST BE COMPACTED TO 98% OF ITS OPTIMUM DENSITY AS PER T-180 (AASHTO). CTB SHALL BE COMPACTED TO 98% OF ITS LAB FORMULATION DENSITY (AASHTO T-99).
- ALL MINERAL MATERIALS USED IN CONSTRUCTION OF ROADWAYS MUST MEET THE FOLLOWING CRITERIA:
 - FINES (PASSING # 200 SIEVE) MUST BE LIMITED TO ≤ 12%, ORGANICS LIMITED TO ≤ 5%, NO DELETERIOUS MATERIALS.
- SIGNAGE AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD MANUAL).
- ALL CITY STREET SIGNS WILL BE BLUE BACKGROUND WITH 6" WHITE LETTERS AND CONSTRUCTED WITH HIGH INTENSITY REFLECTORIZED MATERIAL. ALL STREET SIGNS SHALL BE 9 INCHES WIDE AND APPROVED BY THE DIRECTOR OF PUBLIC WORKS PRIOR TO INSTALLATION.
- ALL CURB PADS SHALL MEET THE SAME STRUCTURAL AND COMPACTION STANDARDS AS ROAD SUB GRADE. THESE PADS WILL EXTEND TO AT LEAST 12" BEYOND THE CURB.
- UNDERDRAINS OR SIDE DRAINS MAY BE INCLUDED WHEN THE GROUND WATER LEVELS MAY AFFECT THE STRUCTURAL INTEGRITY OF THE ROAD. THIS DESIGN SHALL BE THE RESPONSIBILITY OF ENGINEER OF RECORD.
- ANY PROPOSED TRAFFIC CALMING DEVICES MUST BE APPROVED BY THE CITY ENGINEER & FIRE CHIEF.
- ASPHALT COURSES AND CONCRETE SHALL NOT BE PLACED WHILE RAIN IS FALLING, OR WHEN THERE IS STANDING WATER ON THE SURFACE TO BE COVERED.
- TACK COAT SHALL BE APPLIED BETWEEN ALL ASPHALT LAYERS.

TYPICAL ROADWAY SECTION

N.T.S.

CITY OF VENICE
ENGINEERING DEPARTMENT

401 W VENICE AVE
VENICE, FL 34285
(941) 486-2626



ENGINEERING

TYPICAL ROADWAY
SECTION

DATE
JAN 2024

SHEET NO.
ENG-3

- ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN 20' AND AN UNOBSTRUCTED VERTICAL CLEARANCE OF NOT LESS THAN 13'6".
 - ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS AND SHALL BE PROVIDED WITH A SURFACE SUITABLE FOR ALL WEATHER DRIVING CAPABILITIES.
 - REQUIREMENTS MAY BE SUBJECT TO CHANGE AS PER UNIFORM FIRE CODE, FLORIDA LATEST EDITION.
 - FIRE LANE SIGNS THAT COMPLY WITH THE REQUIREMENTS OF THE FLORIDA FIRE PREVENTION CODE MUST BE INSTALLED.
- EMERGENCY ACCESS SHALL BE MARKED WITH FREESTANDING SIGNS WITH THE WORDING:
- NO PARKING
FIRE LANE
TOW AWAY ZONE
F.S.316-1945
- SUCH SIGNS SHALL BE 12 INCHES BY 18 INCHES WITH A WHITE BACKGROUND AND RED LETTERS AND SHALL BE A MAXIMUM OF 7 FEET IN HEIGHT FROM THE ROADWAY TO THE BOTTOM PART OF THE SIGN.
- THE SIGNS SHALL BE WITHIN SIGHT OF THE TRAFFIC FLOW AND BE A MAXIMUM OF 60 FEET APART.
- IT IS IMPERATIVE THAT THIS EMERGENCY ACCESS REMAINS OPEN AT ALL TIMES. IT IS THEREFORE INCUMBENT UPON YOUR STAFF TO NOTIFY THE VENICE POLICE DEPARTMENT ANYTIME A VEHICLE IS BLOCKING THIS REQUIRED EMERGENCY ACCESS.

EMERGENCY VEHICLE ACCESS DETAIL

N.T.S.

CITY OF VENICE
ENGINEERING DEPARTMENT

401 W VENICE AVE
VENICE, FL 34285
(941) 486-2626

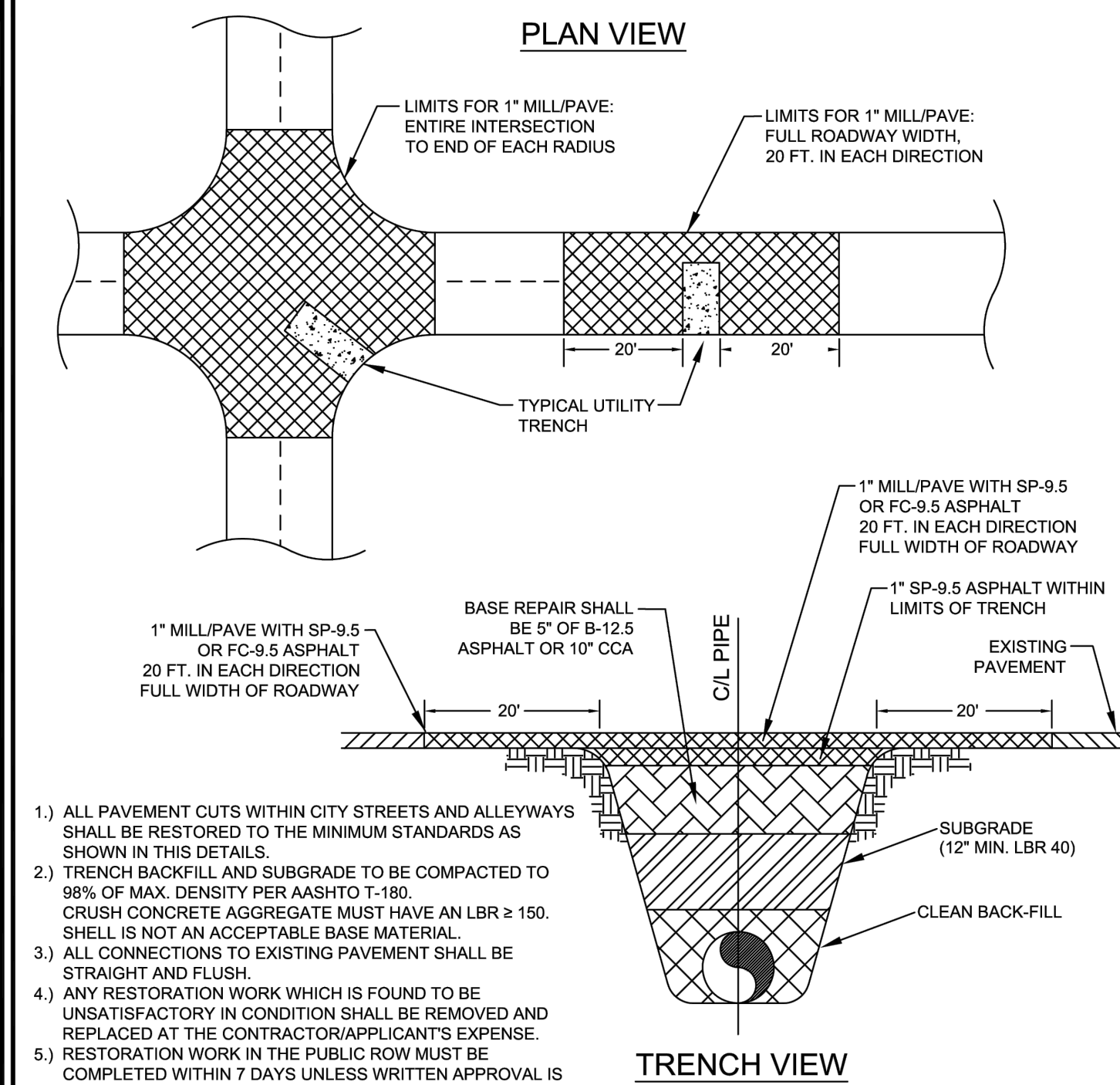


ENGINEERING

EMERGENCY
VEHICLE ACCESS

DATE
JAN 2024

SHEET NO.
ENG-6



PAVEMENT RESTORATION DETAIL

N.T.S.

CITY OF VENICE
ENGINEERING DEPARTMENT

401 W VENICE AVE
VENICE, FL 34285
(941) 486-2626

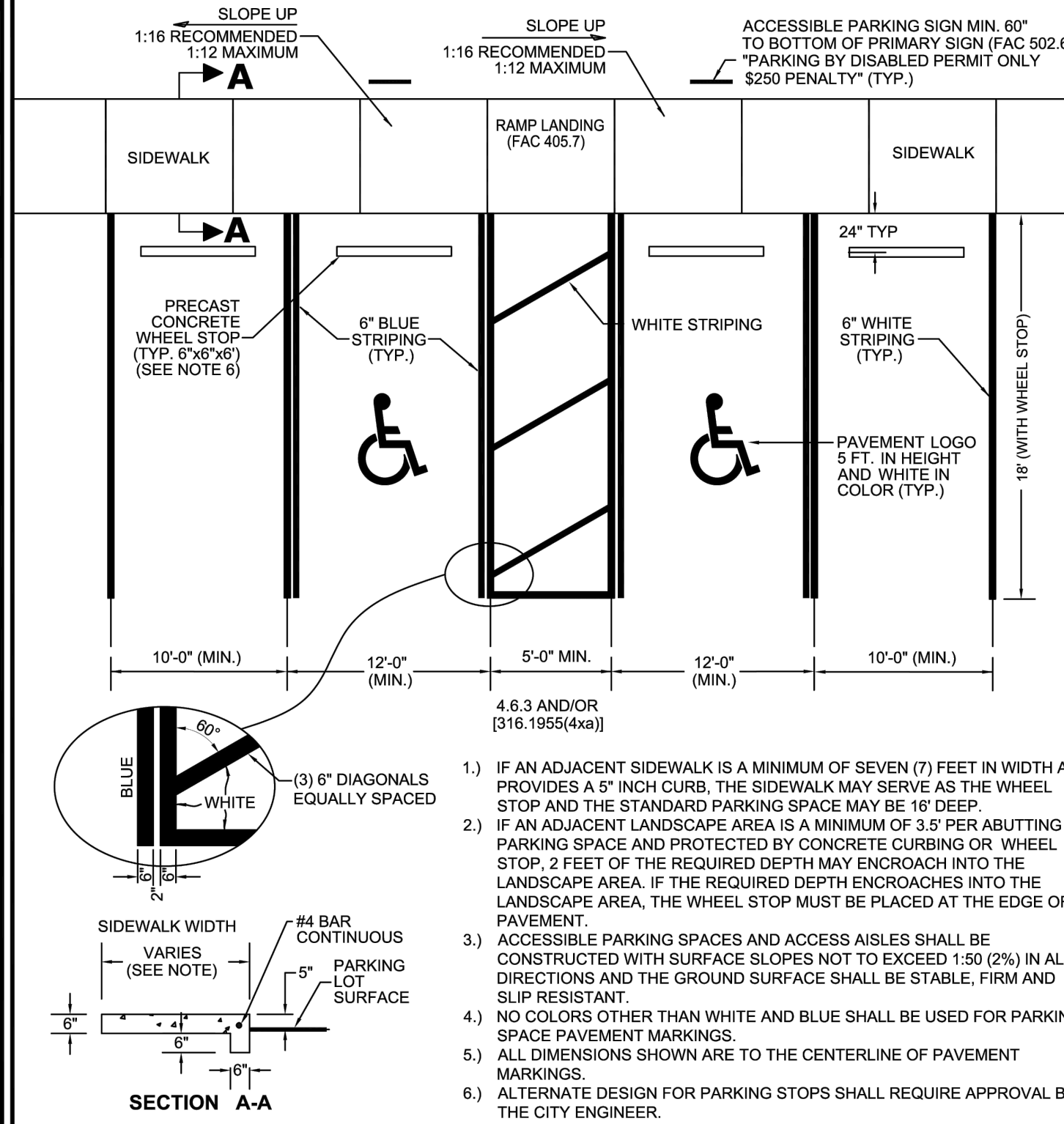


ENGINEERING

PAVEMENT
RESTORATION

DATE
JAN 2024

SHEET NO.
ENG-2



ACCESSIBLE & TYPICAL PARKING SPACE DETAIL

N.T.S.

CITY OF VENICE
ENGINEERING DEPARTMENT

401 W VENICE AVE
VENICE, FL 34285
(941) 486-2626



ENGINEERING

ACCESSIBLE &
TYPICAL PARKING

DATE
JAN 2024

SHEET NO.
ENG-5

REV.	DATE	DESCRIPTION
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02/20/2025	REVISED PER CITY COMMENTS. MPA - REQUIRED BLOOD STRICK 50	

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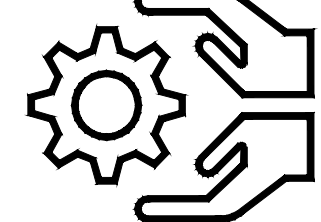
DATE:	08/2024
DRAWN BY:	BB
CHECKED BY:	MDS
JOB NO:	2024-003

AGAPE HANGAR ADDITION
100 AIRPORT AVE WEST
VENICE, FL 34285

CONSTRUCTION DETAILS
SCALE: NTS

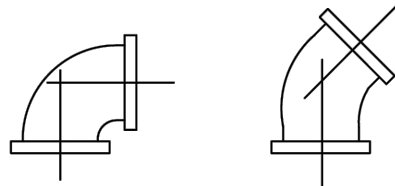
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07



- 1.) ALL PIPE FITTINGS SHALL BE COMPACT, DUCTILE IRON.
- 2.) ALL APPLICATIONS (RAW, POTABLE, REUSE, SEWER) SHALL BE FUSION BONDED EPOXY COATED INSIDE AND OUT.
- 3.) ALL FITTINGS SHALL MEET ANSI/AWWA C118/A21.16 STANDARDS.
- 4.) ALL HARDWARE SHALL BE 316 SS.
- 5.) ALL FITTINGS FOR SANITARY SEWER SHALL BE HEAVY WALL SDR 26 PVC.

PIPE FITTINGS

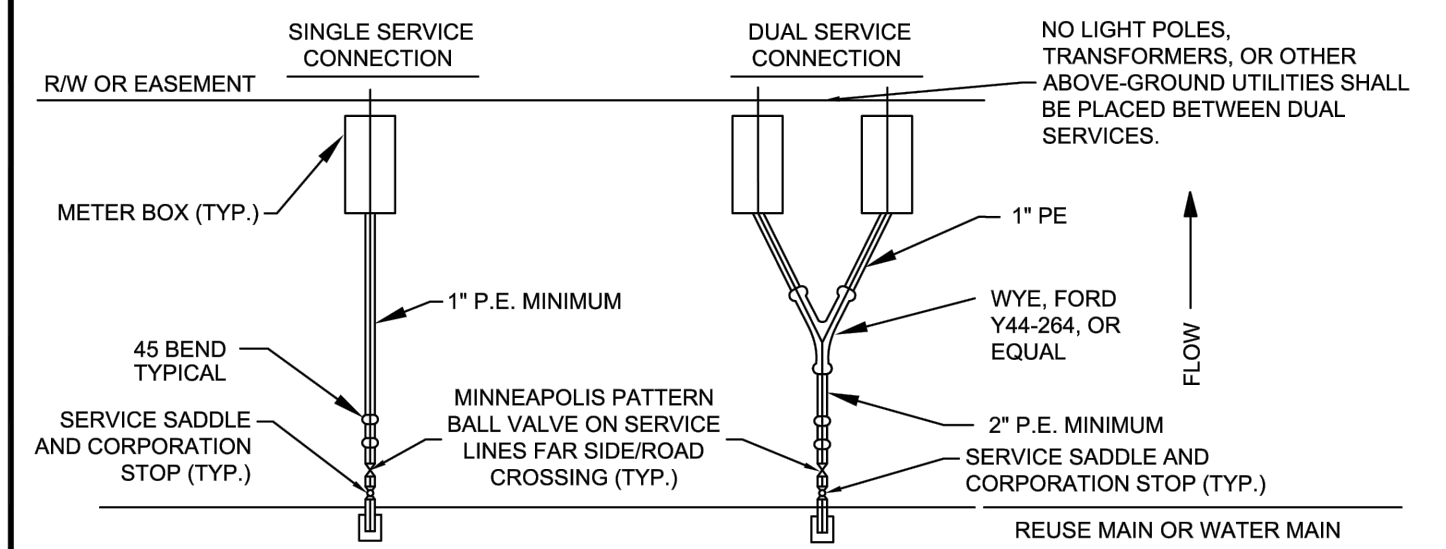
N.T.S.

SERVICE	COLOR	MATERIAL/CLASS
POTABLE WATER MAIN	BLUE	AWWA C900 PVC / DR 18 FUSIBLE C900 PVC / DR 18 CERT-A-LOK C900 PVC / DR 18 HDPE PPI PE 4710 / DR 11 / DIPS (WITH UTILITIES DEPARTMENT APPROVAL)
RAW WATER MAIN	WHITE	
REUSE MAIN	PURPLE	
FORCE MAIN (MIN. 4" DIAMETER)	GREEN	
WATER SERVICE	BLUE	PE (POLYTUBING) / DR 9
REUSE SERVICE	PURPLE	PE (POLYTUBING) / DR 9
GRAVITY SEWER MAIN (MIN. 8" DIAMETER)	GREEN	ASTMD3034 / SDR 26
SEWER LATERAL (MIN. 6" DIAMETER)	GREEN	ASTMD3034 / SDR 26

PIPE MATERIAL SCHEDULE

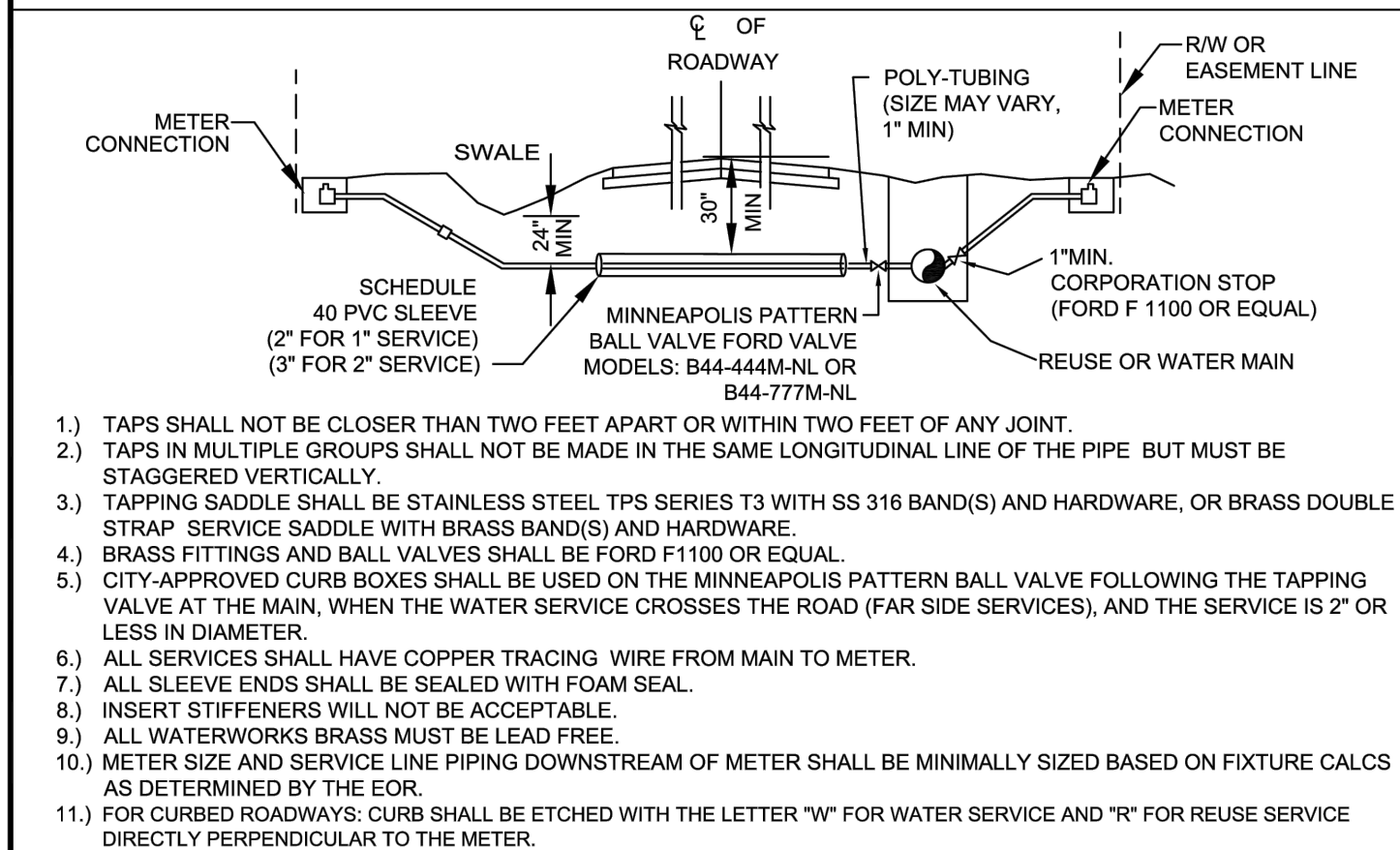
N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT	401 W VENICE AVE VENICE, FL 34285 (941) 486-2626	UTILITIES - GENERAL	DATE JAN 2024
		PIPE FITTINGS & MATERIAL	SHEET NO. U-6



RESIDENTIAL METER CONNECTION DETAIL

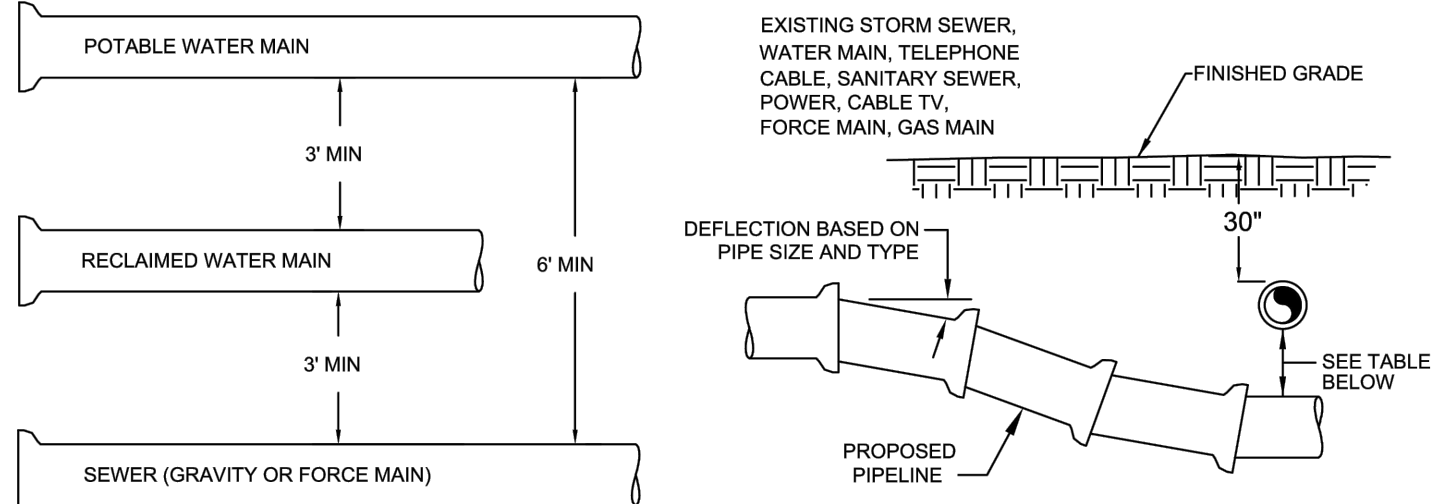
N.T.S.



WATER & REUSE SERVICE CONNECTION

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT	401 W VENICE AVE VENICE, FL 34285 (941) 486-2626	UTILITIES - WATER	DATE JAN 2024
		RESIDENTIAL METER & SERVICE CONNECTION	SHEET NO. W-8



MINIMUM HORIZONTAL SEPARATION DISTANCES (FT)

(OUTSIDE OF PIPELINE TO OUTSIDE OF PIPELINE)

	WATER MAIN	FORCE MAIN	SANITARY SERVICE	REUSE MAIN	STORM WATER	OTHER UTILITIES (TELEPHONE CABLE ETC.)
WATER MAIN	3	6	6	3	3	3
FORCE MAIN	6	3	3	3	3	3
SANITARY SEWER	6	3	3	3	3	3
REUSE MAIN	3	3	3	3	3	3
STORM WATER	3	3	3	3	3	3
OTHER UTILITIES	3	3	3	3	3	3

MINIMUM VERTICAL SEPARATION DISTANCES (IN)

(OUTSIDE OF PIPELINE TO OUTSIDE OF PIPELINE)

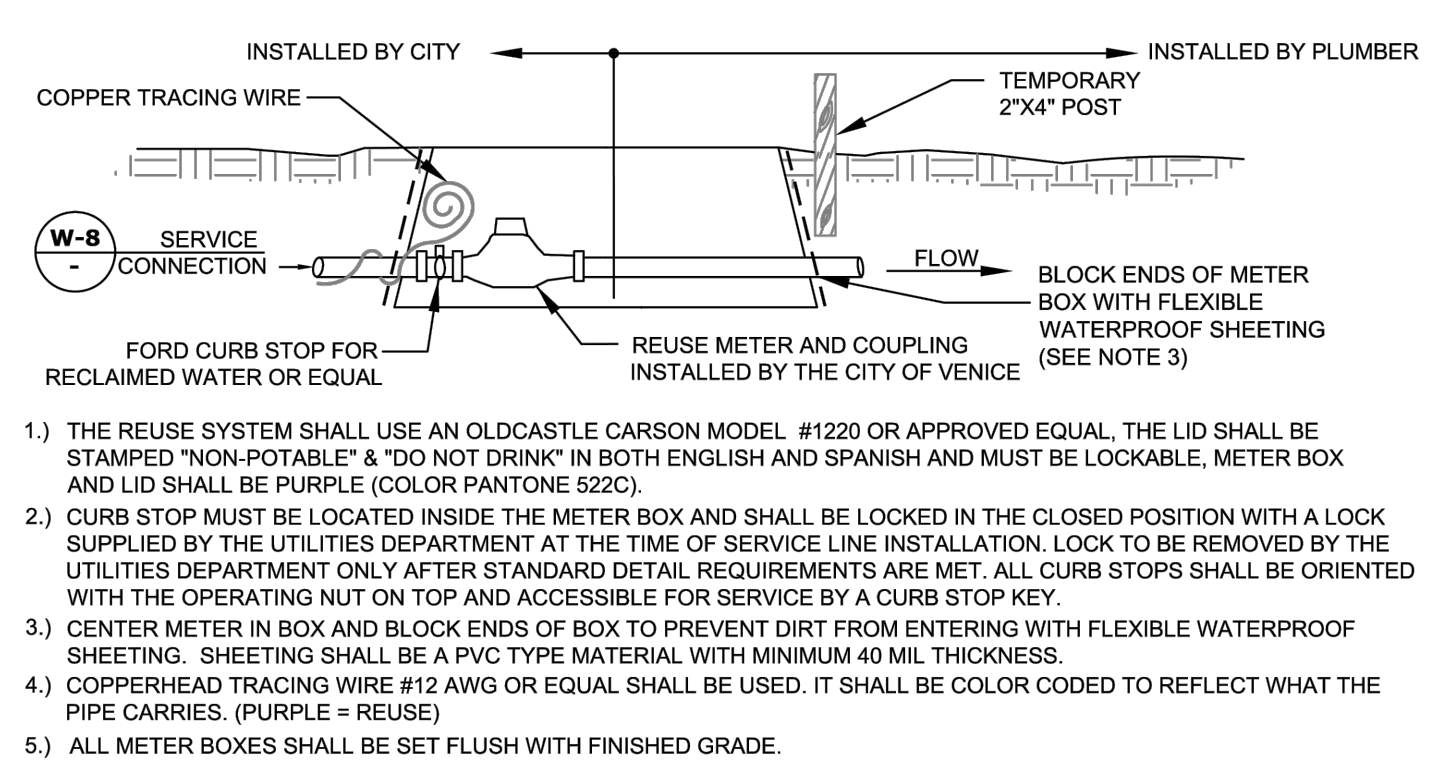
	WATER MAIN	FORCE MAIN	SANITARY SERVICE	REUSE MAIN	STORM WATER	OTHER UTILITIES (TELEPHONE CABLE ETC.)
WATER MAIN	6	12	12	6	6	6
FORCE MAIN	12	6	6	6	6	6
SANITARY SEWER	12	6	6	6	6	6
REUSE MAIN	6	6	6	6	6	6
STORM WATER	6	6	6	6	6	6
OTHER UTILITIES	6	6	6	6	6	6

- 1.) MAXIMUM JOINT DEFLECTION SHALL BE 90% OF MANUFACTURER'S RECOMMENDATION.
- 2.) WHEREVER POSSIBLE, THE LAYOUT OF UTILITIES SHALL PLACE SANITARY SEWER AND SEWER FORCE MAINS BELOW RECLAIMED MAINS AND BELOW WATER MAINS, RESPECTIVELY. WHERE WATER MAINS ARE ABOVE GRAVITY SEWERS OR WASTEWATER FORCE MAINS, A VERTICAL CLEARANCE OF 6 INCHES IS ACCEPTABLE. STORM SHALL BE PLACED BELOW BOTH WATER AND SEWER WHERE POSSIBLE.
- 3.) ACCEPTABLE VARIANCES:
 - A. WHERE HORIZONTAL SEPARATION CANNOT BE MAINTAINED, C900 DR14 PVC PIPE SHALL BE USED FOR ONE OF THE PIPELINES.
 - B. WHERE VERTICAL CLEARANCE CANNOT BE MAINTAINED, ONE FULL LENGTH OF DR14 C900 PIPE SHALL BE INSTALLED CENTERED AT THE POINT OF CROSSING.
 - C. WHERE 36" MINIMUM DEPTH OF COVER CANNOT BE MAINTAINED, SPECIAL PROTECTION OR PIPE MATERIAL UPGRADE MAY BE REQUIRED, AT THE DISCRETION OF THE UTILITY DEPARTMENT.
- 4.) NO UTILITY PIPE SHALL PASS THROUGH, OR COME IN CONTACT WITH ANY PART OF A SANITARY MANHOLE OR STORMWATER STRUCTURE WITHOUT APPROVAL FROM THE UTILITIES DIRECTOR OR CITY ENGINEER.

UTILITY CONFLICT & SEPARATION DETAIL

N.T.S.

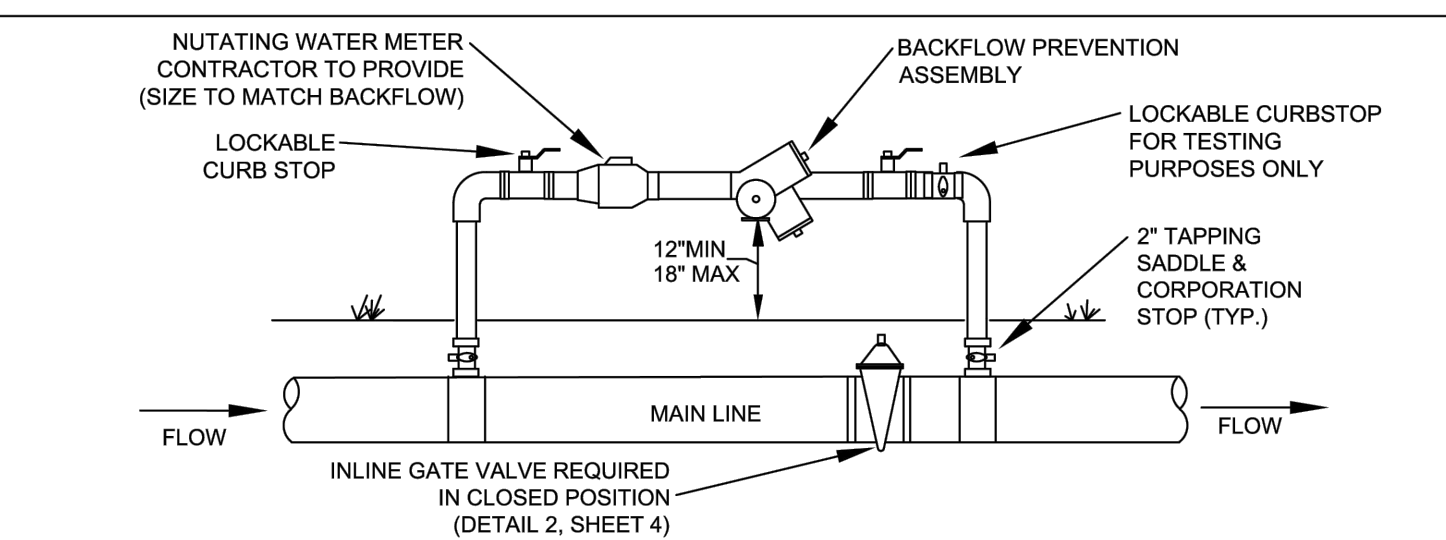
CITY OF VENICE ENGINEERING DEPARTMENT	401 W VENICE AVE VENICE, FL 34285 (941) 486-2626	UTILITIES - GENERAL	DATE JAN 2024
		UTILITY CONFLICTS & SEPARATIONS	SHEET NO. U-5



REUSE METER

RESIDENTIAL & COMMERCIAL 2" AND BELOW

N.T.S.

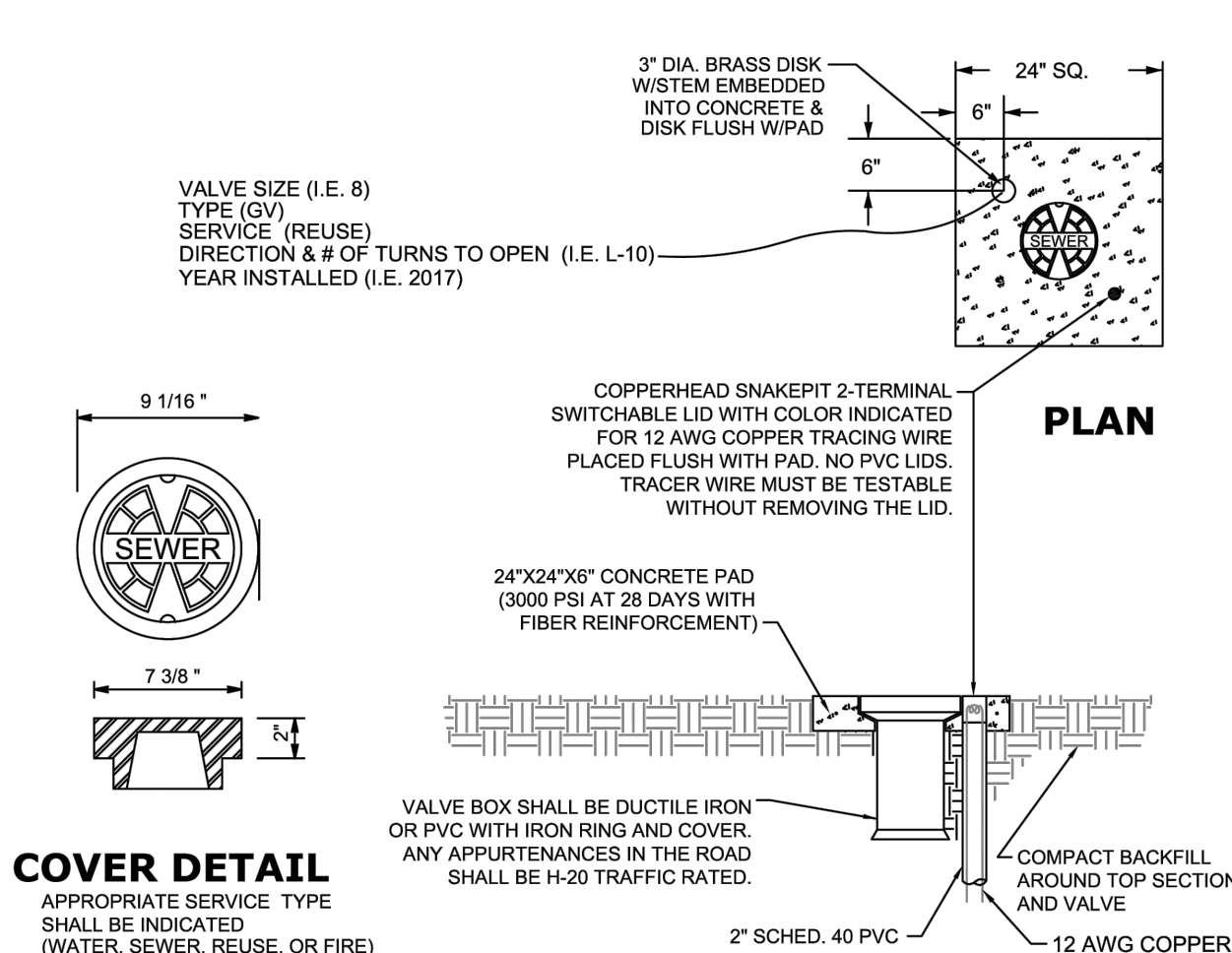


- 1.) REDUCED PRESSURE (RP2) BACKFLOW PREVENTION ASSEMBLY MUST BE CERTIFIED WITHIN THE PAST YEAR AND A VISIBLE TAG INSTALLED.
- 2.) INLINE MAIN VALVE MUST REMAIN CLOSED UNTIL FINAL CITY TURNOVER IS COMPLETE AND FDEP CLEARANCE IS ISSUED.
- 3.) JUMPER ASSEMBLY SHALL BE REMOVED ONCE MAIN LINE IS CLEARED AND TURNED OVER TO CITY.
- 4.) DURING JUMPER REMOVAL, CORPORATION STOPS SHALL BE SHUT OFF AND PLUGGED WITH LEAD FREE BRASS PLUGS.

TEMPORARY MAIN-LINE JUMPER DETAIL

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT	401 W VENICE AVE VENICE, FL 34285 (941) 486-2626	UTILITIES - WATER	DATE JAN 2024
		REUSE METER & TEMPORARY JUMPER	SHEET NO. W-7



COVER DETAIL

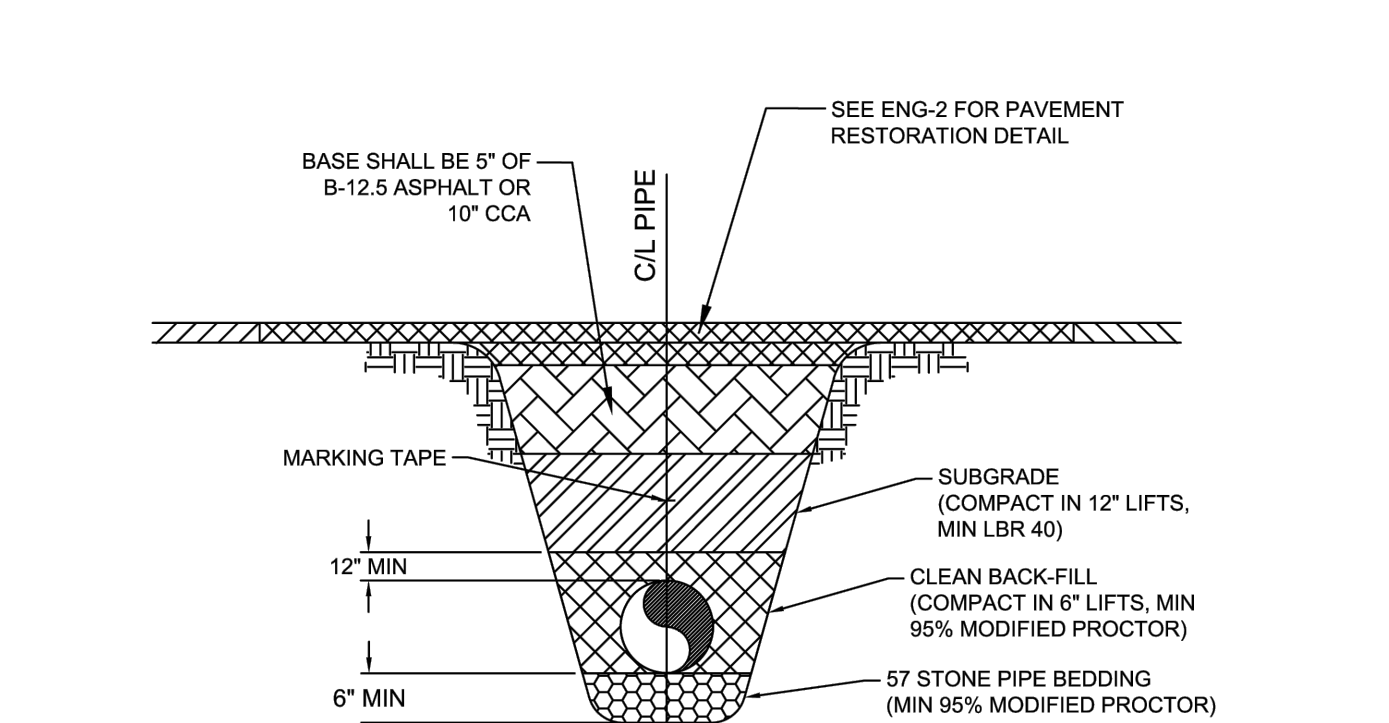
APPROPRIATE SERVICE TYPE SHALL BE INDICATED (WATER, SEWER, REUSE, OR FIRE)

- 1.) PAVED AREAS: SET CONCRETE PAD AND COVER FLUSH WITH FINISHED PAVEMENT SURFACE.
- 2.) UNPAVED AREAS: SET PAD AND COVER 1 INCH ABOVE FINISHED GRADE.
- 3.) VALVES LOCATED IN DITCH AND OVER 4' DEPTH (LINE) MUST USE TRENCH ADAPTER VALVE BOX (AMERICAN FLOW CONTROL).
- 4.) COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE USED. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES (BLUE = WATER, GREEN = SEWER, PURPLE = REUSE). CONTRACTOR SHALL PERFORM CONTINUITY TEST ON ALL TRACER WIRES, WITNESSED BY CITY REPRESENTATIVE. WHERE TRACER WIRE NEEDS TO BE JOINED, CONNECTIONS SHALL UTILIZE DRYCON WATERPROOF CONNECTION OR APPROVED EQUAL. WIRE NUTS AND/OR DUCT TAPE ARE NOT ACCEPTABLE.
- 5.) PRE-CAST PADS MAY BE USED WITH CITY APPROVAL.
- 6.) FOR CURBED ROADWAYS: CURB SHALL BE ETCHED WITH THE LETTER "V" DIRECTLY PERPENDICULAR TO THE VALVE BOX.
- 7.) VALVE BOX COVERS SHALL BE PAINTED BLUE FOR POTABLE WATER, PURPLE FOR REUSE WATER, AND GREEN FOR SEWER.

VALVE BOX DETAIL

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT	401 W VENICE AVE VENICE, FL 34285 (941) 486-2626	UTILITIES - GENERAL	DATE JAN 2024
		VALVE BOX	SHEET NO. U-4

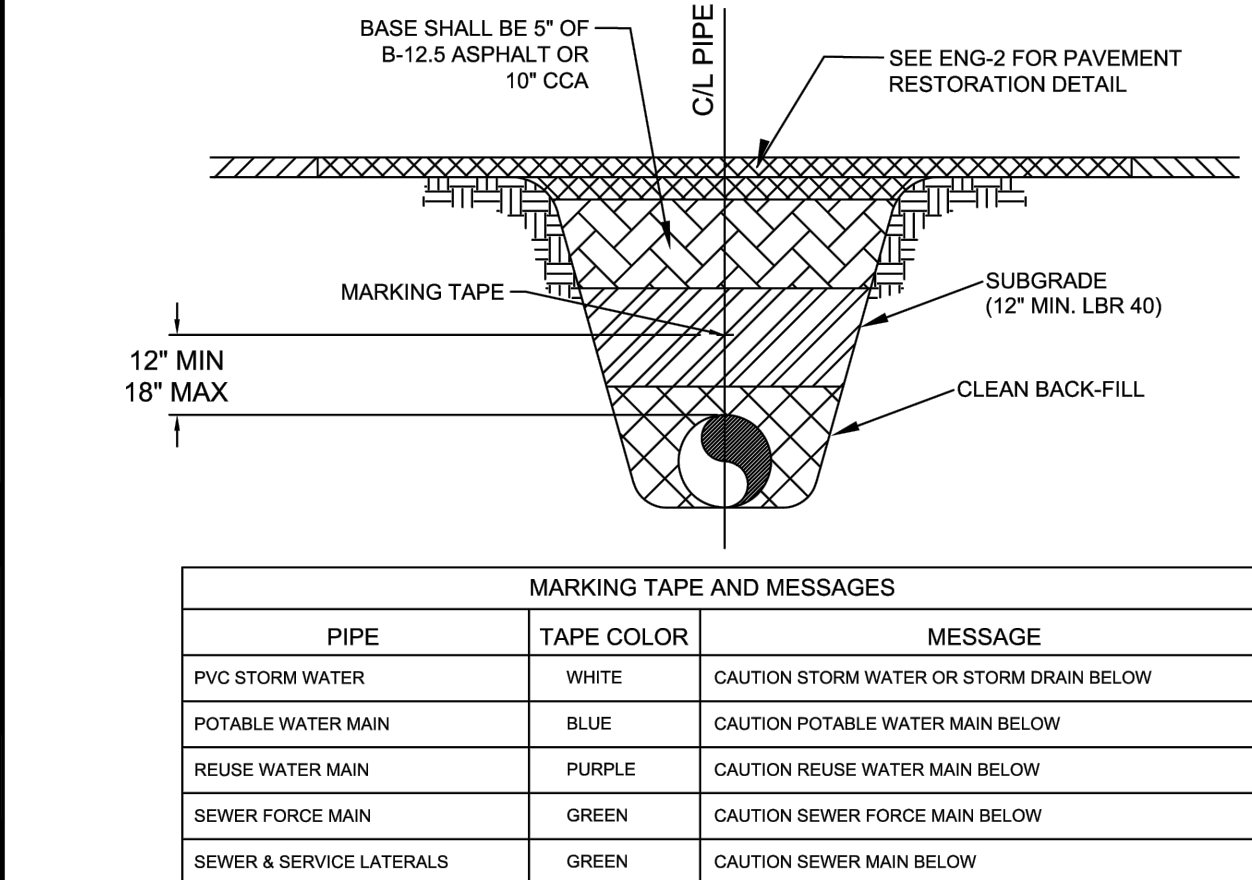


- 1.) MINIMUM COVER SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE.
- 2.) INSTALLATION OF PIPE SHALL BE IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 3.) PAVEMENT RESTORATION SHALL CONFORM WITH DETAIL ENG-2 OF THESE CITY STANDARDS. FOR NEW CONSTRUCTION, THE FIRST LIFT OF ASPHALT SHALL BE IN PLACE PRIOR TO RECORD DRAWING REVIEW.
- 4.) ALL UTILITIES (PUBLIC AND PRIVATE) THAT CROSS A DITCH / SWALE SHALL BE 36" MIN BELOW THE ACTUAL / DESIGN BOTTOM OF CONVEYANCE.
- 5.) MARKING TAPE SHALL BE PROVIDED PER U-1.

SEWER PIPE TRENCH DETAIL

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT	401 W VENICE AVE VENICE, FL 34285 (941) 486-2626	UTILITIES - SEWER	DATE JAN 2024
		SEWER PIPE TRENCH	SHEET NO. S-6

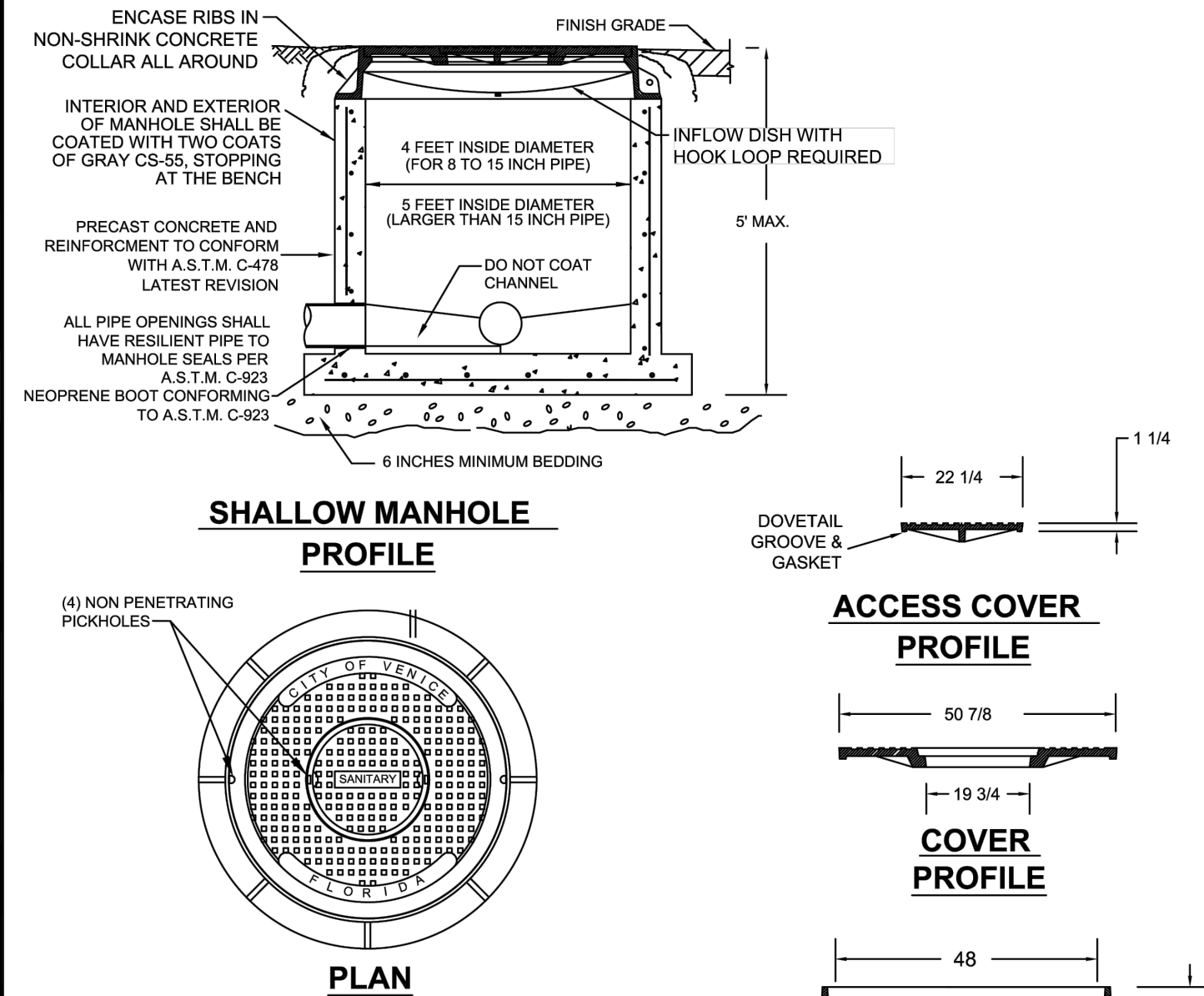


- 1.) COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE ATTACHED TO TOP OF PIPE AT 20' INTERVALS ON ALL RECLAIMED WATER, FORCE, OR POTABLE WATER MAINS. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES. (BLUE = WATER, GREEN = SEWER, PURPLE = REUSE) WHERE TRACER WIRE NEEDS TO BE JOINED, CONNECTIONS SHALL UTILIZE DRYCON WATERPROOF CONNECTION OR APPROVED EQUAL. WIRE NUTS AND/OR DUCT TAPE ARE NOT ACCEPTABLE.
- 2.) MINIMUM COVER SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE MAXIMUM COVER SHALL BE 42" FROM FINISHED GRADE UNLESS OTHERWISE APPROVED.
- 3.) MAINS SHALL BE INSTALLED LEVEL AND ELIMINATE HIGH POINTS UNLESS OTHERWISE APPROVED BY UTILITIES DIRECTOR.
- 4.) INSTALLATION OF PIPE SHALL BE IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 5.) PAVEMENT RESTORATION SHALL CONFORM WITH DETAIL ENG-2 OF THESE CITY STANDARDS. FOR NEW CONSTRUCTION, THE FIRST LIFT OF ASPHALT SHALL BE IN PLACE PRIOR TO RECORD DRAWING REVIEW.
- 6.) CONFLICTS - UTILIZE 45° BENDS WITH SEPARATION AS PER CITY DETAILS. ALL UTILITIES (PUBLIC & PRIVATE) THAT CROSS A DITCH/SWALE SHALL BE 36" MIN.
- 7.) BELOW THE ACTUAL/DESIGN BOTTOM OF CONVEYANCE. MARKING TAPE SHALL BE 3" WIDE (MIN.) DETECTIBLE UNDERGROUND WARNING TAPE.
- 8.) INSTALL CENTERED DIRECTLY OVER THE PIPE.
- 9.) SEE S-6 FOR GRAVITY SEWER PIPE TRENCH DETAIL.

PRESSURE PIPE TRENCH DETAIL

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT	401 W VENICE AVE VENICE, FL 34285 (941) 486-2626	UTILITIES - GENERAL	DATE JAN 2024
		UTILITY PIPE TRENCH	SHEET NO. U-1



- 1.) SHALLOW MANHOLE SHALL BE INSTALLED WHEREVER THE BASE OF THE MANHOLE IS LESS THAN 5 FEET BELOW THE FINISHED GRADE
- 2.) MANHOLE SHALL CONFORM TO A.S.T.M. C-478 LATEST REVISION TYPE II CONCRETE, 4000 P.S.I. 28 DAY COMPRESSIVE STRENGTH
- 3.) INTERCEPTOR MANHOLES, DROP MANHOLES, AND MANHOLES WITH INTERCEPTING FORCE MAINS SHALL BE LINED WITH HAVEN 405.
- 4.) ALL JOINTS SHALL BE WRAPPED WITH 12" BOA TAPE.
- 5.) INFLOW DISH SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR.
- 6.) COVER SPECIFICATIONS:
MATERIAL: ASTM A48 CLASS 308 GRAY IRON.
RING WT. 700 LBS. APP. (USF 690-AG-M)
OUTER COVER WT. 675 LBS. APP.
INNER COVER WT. 105 LBS. APP.

PRECAST SHALLOW MANHOLE DETAIL

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT	401 W VENICE AVE VENICE, FL 34285 (941) 486-2626	UTILITIES - SEWER	DATE JAN 2024
		PRECAST SHALLOW MANHOLE	SHEET NO. S-3

REV.	DATE	DESCRIPTION
12/27/2025	REVISED PER CITY COMMENTS. NEW SURVEY INFORMATION REFLECTED	
02/20/2025	REVISED PER CITY COMMENTS. MPA - REQUIRED BLUE STRICK 30	

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
MELANIE DELEHANTY SMITH, PE
ON THE DATE ADJACENT TO THE SEAL.

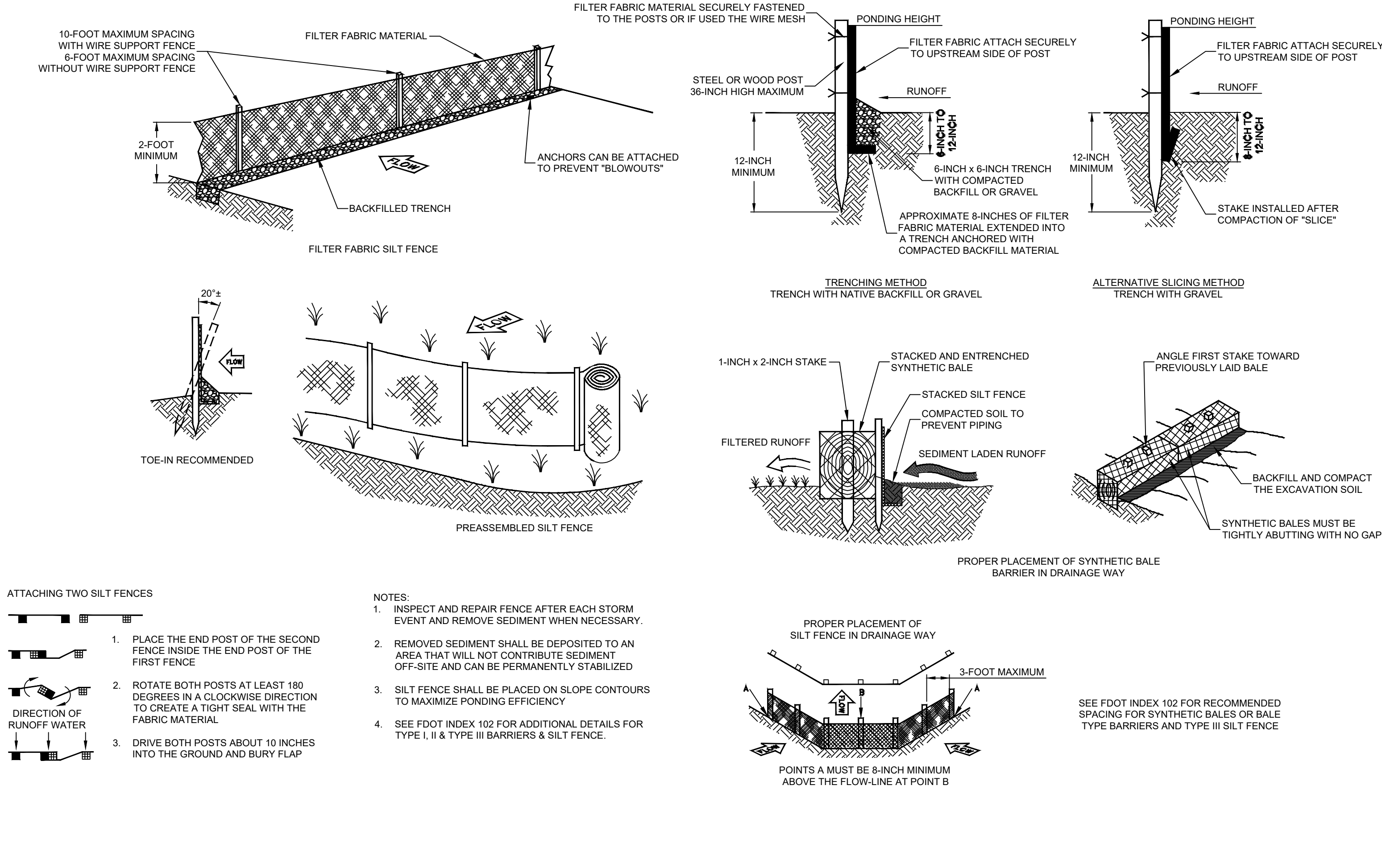
SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

MELANIE DELEHANTY SMITH, PE FL #75447
PROFESSIONAL ENGINEER

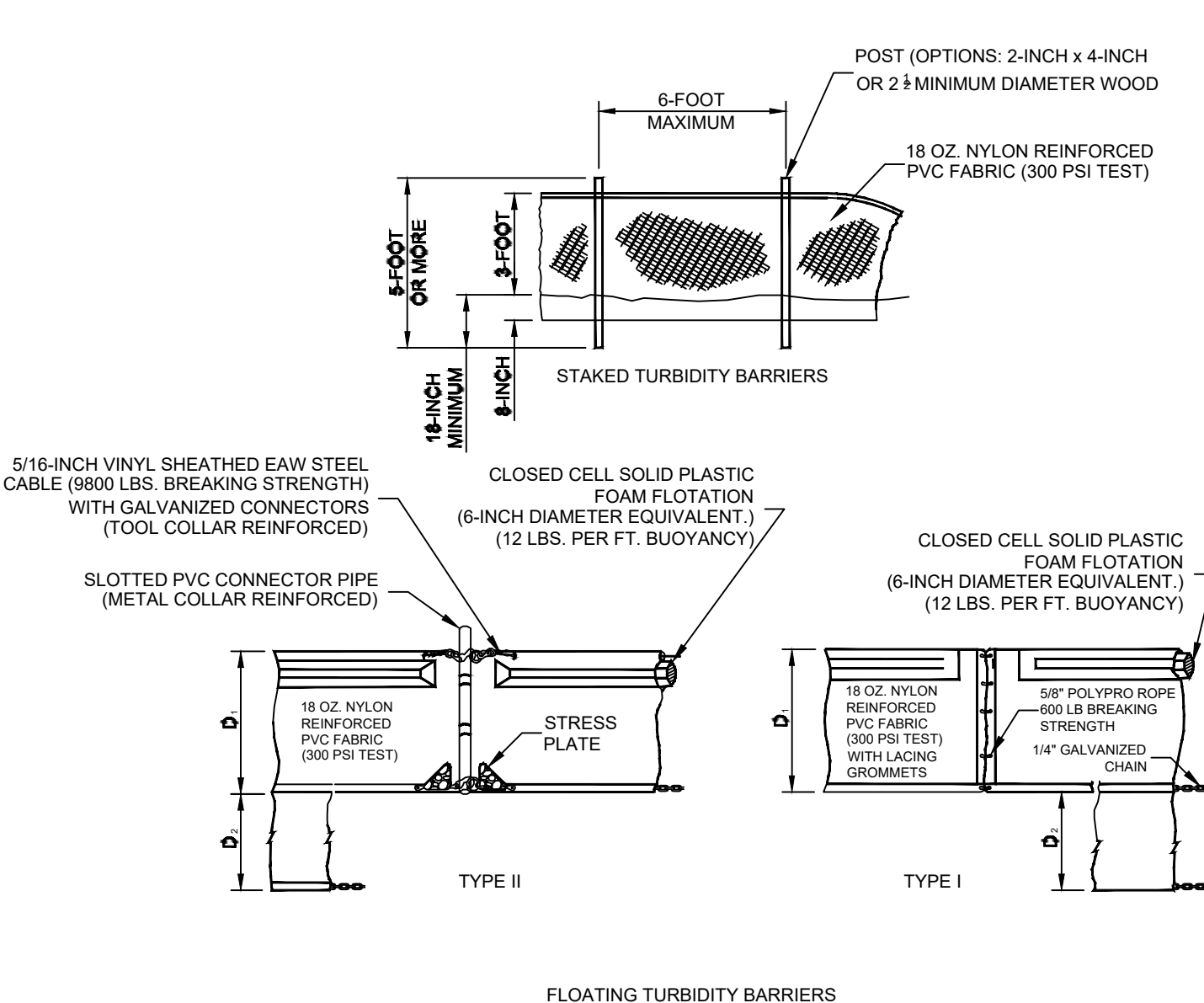
DATE:	08/2024	DRAWN BY:	BB	CHECKED BY:	MDS	JOB NO:	2024-003
AGAPE HANGAR ADDITION 100 AIRPORT AVE WEST VENICE, FL 34285				CONSTRUCTION DETAILS SCALE: NTS			

Mel-Haven
PASSIONATE ENGINEERING
ADDRESS:
5342 CLARK RD #1182
SARASOTA, FL 34233
PHONE: (941) 468-3742
WWW.MELHAVENENGINEERING.COM

STORMWATER POLLUTION PREVENTION PLAN

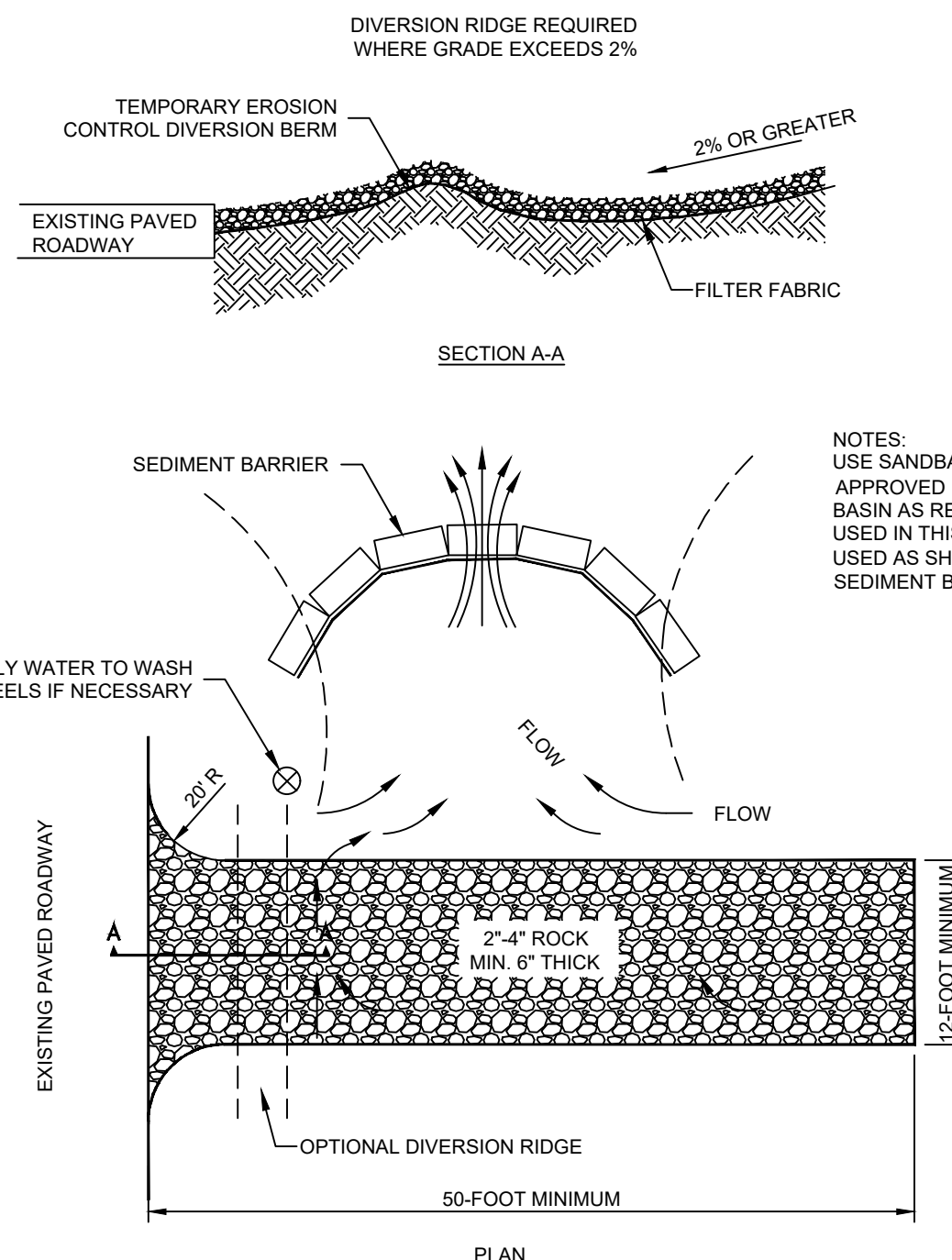


TEMPORARY EROSION AND SEDIMENT CONTROL BARRIERS SILT FENCE & SYNTHETIC BALES



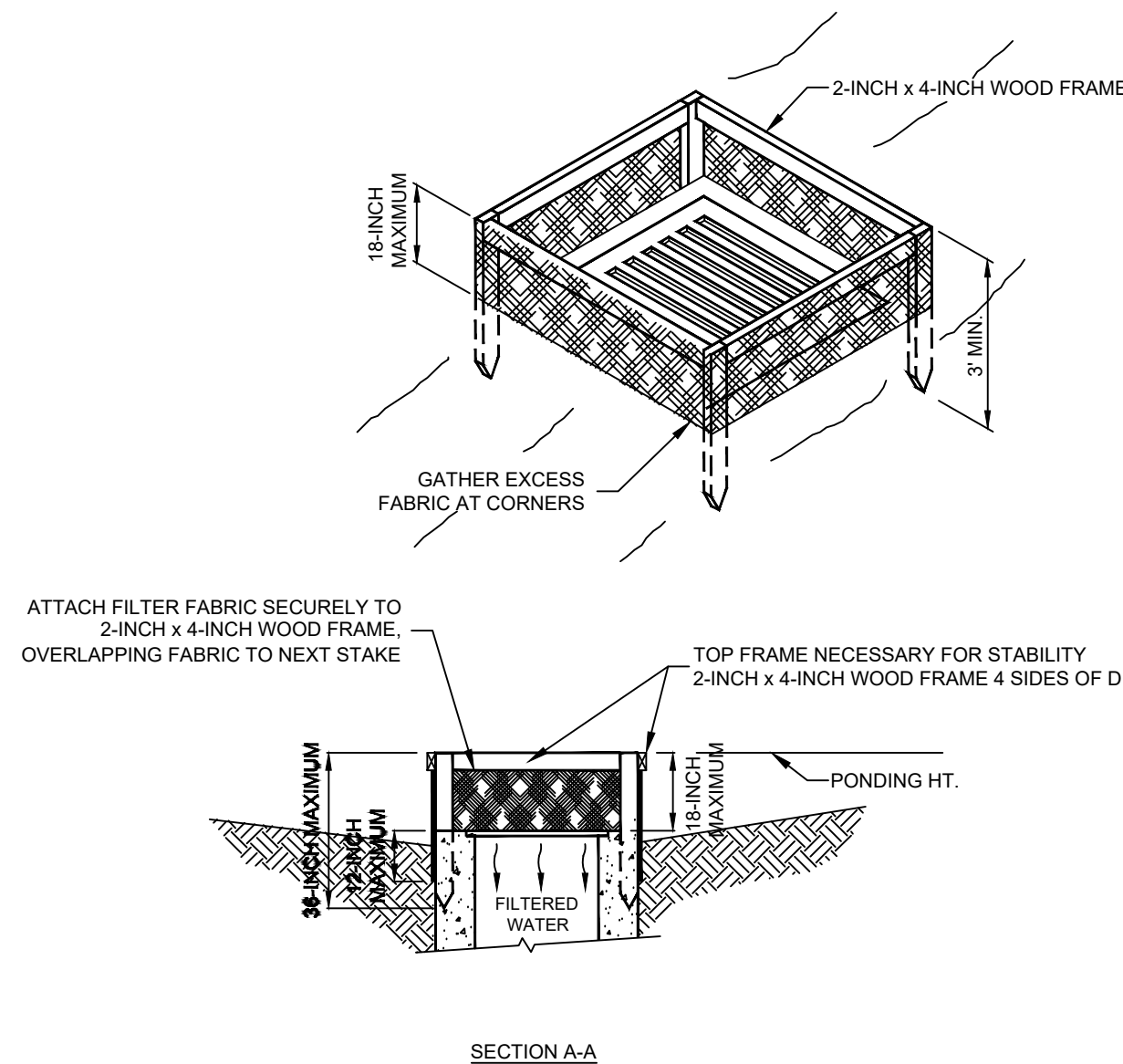
- NOTES:
1. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
 2. NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
 3. DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
 4. NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.
 5. FOR ADDITIONAL INFORMATION SEE SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS.

TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING, OR STAKED TYPES OR ANY COMBINATIONS OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPE(S) WILL BE AT THE CONTRACTORS OPTION UNLESS OTHERWISE SPECIFIED IN THE PLANS. HOWEVER, PAYMENT WILL BE UNDER THE CONTRACT LUMP SUM PRICE ESTABLISHED IN THE BID PROPOSAL FOR EROSION AND SEDIMENT CONTROL POSTS IN STAKED TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



- NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
 4. SEE FDOT INDEX NO. 106

POST PAVEMENT EROSION CONTROL FILTER FABRIC OVER GRATE INLET



- NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS (LESS THAN 5')
 2. USE 2-INCH X 4-INCH WOOD OR EQUIVALENT METAL STAKES. (3-FOOT MINIMUM LENGTH)
 3. INSTALL 2-INCH X 4-INCH WOOD TOP FRAME TO INSURE STABILITY.
 4. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IN CASE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
3. ADDITIONAL PROTECTION - ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
5. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST MANAGEMENT PRACTICES (BMP) AND MOST CURRENT EROSION AND SEDIMENT CONTROL PRACTICES THAT ARE INDICATED IN THE EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
6. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL - DESIGNER AND REVIEWER MANUAL (JUNE 2007) FOR THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F.D.E.P.) AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.) AND F.D.O.T. DESIGN STANDARDS INDEX 102.

PRE-Construction SITE PROTECTION

8. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAIL SHEET FOR TYPICAL CONSTRUCTION.
9. ANY DISCHARGE FROM Dewatering ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
10. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
11. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD (1/3) THE HEIGHT OF THE BARRIER OR IF REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
12. ALL DISTURBED AREAS ARE TO BE STABILIZED THROUGH COMPACTION, SILT SCREENS, SYNTHETIC BODS, AND GRASSING ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.

SITE PROTECTION:

13. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED PROPERLY. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 8 INCHES. BARRIER IS STAKED, THE EXPOSED SOIL OR GRAVEL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER. USING WACKING FOR SUPPORT IS DISCOURAGED DUE TO DISPOSAL PROBLEMS.
14. WATER OR SLURRY USED TO CONTROL DUST SHALL BE RETAINED ON THE SITE AND NOT ALLOWED TO RUN DIRECTLY INTO WATERCOURSE OR STORMWATER CONVEYANCE SYSTEMS.
15. SPECIAL AREAS SHALL BE DESIGNATED AS VEHICLE AND EQUIPMENT WASHING AREA AND SUCH AREAS SHALL NOT ALLOW RUNOFF TO FLOW DIRECTLY INTO WATERCOURSE OR STORMWATER CONVEYANCE SYSTEMS.
16. SILT FENCE BARRIERS ARE NOT TO BE USED WHERE CONCENTRATED FLOWS OF WATER ARE ANTICIPATED SUCH AS DRAINAGE DITCHES, AROUND INLETS OR ABOVE/ BELOW WHERE CULVERTS DISCHARGE.
17. SYNTHETIC BALES, SANDBAGS OR OTHER APPROVED DEVICE FACED WITH FILTER FABRIC SHALL BE USED IN HIGH VOLUME AREAS TO DECREASE THE RUNOFF VELOCITY AND SHALL BE SECURELY ANCHORED.
18. ALL DEVICES INCLUDING SILT FENCE, FILTER BARRIERS, SYNTHETIC BALES AND/OR SANDBAGS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY. IF ANY DAMAGE OR WEAR IS OBSERVED, THE DEFECTIVE SHALL BE PAID TO THE REPAIR OF DAMAGED BARRIERS, END RUNS AND UNDERCUTTING BENEATH BARRIERS.
19. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
20. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

STORM DRAIN INLET PROTECTION:

21. FILTER FABRIC SHALL BE LAID OVER INLETS SO THAT THE FABRIC EXTEND A MINIMUM OF 1 FOOT BEYOND EAST SIDE OF THE INLET STRUCTURE. FILTER FABRIC IN CONFORMANCE WITH F.O.D.T. INDEX 985 OR COMPARABLE SHALL BE USED. IF MORE THAN ONE STRIP OF FABRIC IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.
22. 2 INCH - 3 INCH COARSE AGGREGATE SHALL BE PLACED OVER THE FILTER FABRIC. THE DEPTH OF STONE SHALL BE AT LEAST 6 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.

POST-CONSTRUCTION SITE PROTECTION

24. ALL DEWATERING, EROSION AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE STABILIZED.
25. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER TEMPORARY BARRIERS ARE NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA IN SUCH A MANNER THAT IT WILL NOT ERODE.
26. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.
27. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.

NOTE:
THE WATER MANAGEMENT DISTRICT FOR THIS
PROJECT IS THE SOUTHWEST FLORIDA WATER
MANAGEMENT DISTRICT (SWFWMD)

NOTE:
WHERE F.D.O.T. SPECS AND INDEX ARE
REFERENCED, PLEASE REFER TO F.D.O.T
DESIGN STANDARDS FOR DESIGN,
CONSTRUCTION MAINTENANCE AND UTILITY
OPERATIONS MANUAL LATEST VERSION.

[illegible]

STORMWATER POLLUTION PREVENTION PLAN									
OWNER'S REQUIREMENTS			CONTRACTOR'S REQUIREMENTS						
SITE DESCRIPTION		GENERAL	STABILIZATION PRACTICES EROSION AND SEDIMENT CONTROLS	OTHER CONTROLS	HAZARDOUS PRODUCTS		MAINTENANCE/INSPECTION PROCEDURES		
<p>PROJECT NAME AND LOCATION: AGAPE FLIGHT INC 100 AIRPORT AVE E, VENICE, FL 34285</p> <p>OWNER NAME AND ADDRESS: AGAPE FLIGHT INC 100 AIRPORT AVE E, VENICE, FL 34285</p> <p>DESCRIPTION:</p> <p>SITE CONSTRUCTION TO SUPPORT RECONFIGURED PARKING AREAS, AND RECONFIGURE DRY POND AREA, LANDSCAPE IMPROVEMENTS, AND MINOR WETLAND IMPACTS</p> <p>SOIL DISTURBING ACTIVITIES WILL INCLUDE: SITE CLEARING, GRADING, VEGETATION REMOVAL AND BUILDING DEMOLITION CONSTRUCTION OF THE PROPOSED SCHOOL BUILDINGS AND SITE IMPROVEMENTS</p> <p>RUNOFF CURVE NUMBERS:</p> <p>1. PRE-CONSTRUCTION = 95 2. DURING CONSTRUCTION = 98 3. POST-CONSTRUCTION = 95</p> <p>SOILS:</p> <p>SEE SOIL REPORT</p> <p>SITE MAPS:</p> <p>* SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORMWATER DISCHARGE POINTS.</p> <p>* SEE ATTACHED EROSION & TURBIDITY CONTROL PLAN FOR TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS</p> <p>* SEE GENERAL NOTES FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.</p> <p>SITE AREA:</p> <p>1. TOTAL AREA OF SITE = 2.02 ACRES 1. TOTAL AREA OF TO BE DISTURBED = 0.75 ACRES</p> <p>NAME OF RECEIVING WATERS:</p> <p>GULF OF MEXICO, BY WAY OF DEERTOWN GULLY</p>		<p>THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.</p> <p>SEQUENCE OF MAJOR ACTIVITIES</p> <p>THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:</p> <p>1. INSTALL STABILIZED CONSTRUCTION ENTRANCE</p> <p>2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED</p> <p>3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN</p> <p>4. CONSTRUCT SEDIMENTATION BASIN</p> <p>5. CONTINUE CLEARING AND GRUBBING</p> <p>6. STOCK PILE TOP SOIL IF REQUIRED</p> <p>7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED</p> <p>8. STABILIZE DENUDED AREAS AND STOCKPILES AS SOON AS PRACTICABLE</p> <p>9. INSTALL STORM SEWER AND IRRIGATION.</p> <p>10. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING</p> <p>11. REMOVE ACCUMULATED SEDIMENT FROM BASINS</p> <p>12. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED</p>	<p>1. HAY BALE BARRIER: HAY BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:</p> <p>A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.</p> <p>B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.</p> <p>C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.</p> <p>D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE BARRIERS CONSTRUCTED IN DRAINAGE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT, IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.</p> <p>REFER TO CITY STANDARD DETAIL D-913 FOR CONSTRUCTING THE HAY BALE BARRIER, ALSO REFER TO D-901, D-911 AND D-12 FOR PROPER LOCATION, MATERIAL & USAGE.</p> <p>2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:</p> <p>A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.</p> <p>B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2. ACRES. REFER TO CITY STANDARD DETAIL D-910 FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER.</p> <p>3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.</p> <p>4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERFERED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED, THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE. LEVEL SPREADER SHALL BE CONSTRUCTED IN ACCORDANCE TO CITY STANDARD DETAIL D-914.</p> <p>5. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.</p> <p>6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS AND EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.</p> <p>7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LOADED STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.</p> <p>8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.</p> <p>9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.</p> <p>10. TEMPORARY GRASSING: THE SEEDDED OR SEEDDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.</p> <p>11. TEMPORARY REGRASSING : IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.</p> <p>12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.</p> <p>13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.</p> <p>14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDDED AND MULCHED OR SODDED.</p>	<p>WASTE DISPOSAL</p> <p>WASTE MATERIALS ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.</p> <p>HAZARDOUS WASTE</p> <p>ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.</p> <p>SANITARY WASTE</p> <p>ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.</p> <p>OFFSITE VEHICLE TRACKING</p> <p>A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULIN.</p>	<p>THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.</p> <p>* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.</p> <p>* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.</p> <p>* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.</p> <p>PRODUCT SPECIFIC PRACTICES THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:</p> <p>PETROLEUM PRODUCTS</p> <p>ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.</p> <p>FERTILIZERS</p> <p>FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.</p> <p>PAINTS</p> <p>CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.</p> <p>CONCRETE TRUCKS</p> <p>CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.</p> <p>SPILL CONTROL PRACTICES</p> <p>IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:</p> <p>MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.</p> <p>MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUAL), SAND, SAWDUST, PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.</p> <p>ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.</p> <p>SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.</p> <p>THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.</p>		<p>* THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.</p> <p>* TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.</p> <p>* A MAINTENANCE INSPE</p>		