

C:\Users\aperez\Engineering Dropbox\Projects\2024\241024\dwg\Preliminary\CI 00_notes.dwg, 3/4/2025 2:18:00 PM

CIVIL LEGEND			
EXISTING	PROPOSED		
	EXISTING GUY POLE		PROPOSED GAS SERVICE LINE
	COMMUNICATIONS POLE W/GUY WIRE		PROPOSED DOMESTIC WATERLINE W/ HYDRANT AND VALVE ASSEMBLY
	EXISTING VAULT		PROPOSED UNDERGROUND ELECTRIC LINE
	EXISTING SANITARY MANHOLE		PROPOSED SANITARY SEWER W/ MANHOLE
	EXISTING DRAINAGE MANHOLE		REMOVAL OF SANITARY SEWER
	EXISTING TELEPHONE MANHOLE		PROPOSED EXFILTRATION TRENCH
	EXISTING ELECTRIC METER		PROPOSED STORM SEWER W/CATCH BASIN
	EXISTING ELECTRIC MANHOLE		DOUBLE DOOR
	EXISTING CATCH BASIN		SINGLE DOOR
	EXISTING FIRE HYDRANT		ACCESSIBLE PARKING/PAINTED ISLAND
	EXISTING TOP OF CASTING		SIGN
	EXISTING INVERT ELEVATION		LIGHT POLE
	UTILITY POLE		PARKING STALL COUNT
	STORM DRAIN		PROPOSED BOLLARD
	EXISTING INDEX CONTOURS		CONCRETE CURB
	EXISTING INTERMEDIATE CONTOURS		EXISTING CONTOURS
	EXISTING WATER LINE & VALVE		PROPOSED CONTOURS
	EXISTING SANITARY SEWER LINE		PROPOSED SPOT ELEVATION
	EXISTING STORM SEWER LINE & CATCH BASIN OR MANHOLE		EXISTING DECIDUOUS TREE
	EXISTING GAS LINE & VALVE		LIMITS OF CONSTRUCTION
	EXISTING OVERHEAD ELECTRIC		INLET
	EXISTING BURIED ELECTRIC		LUMEN
	EXISTING OVERHEAD COMMUNICATIONS		VALVE
	EXISTING BURIED COMMUNICATIONS		
	EXISTING FENCE		

UTILITY NOTES:

- ALL STORM SEWER APPURTENANCES SHALL BE IN ACCORDANCE WITH FDOT ROADWAY STANDARD DRAWINGS.
- ALL SANITARY SEWER WORK SHALL BE IN ACCORDANCE WITH CITY OF KEY WEST STANDARDS AND SPECIFICATIONS.
- ALL WATER WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH FKA A STANDARDS AND SPECIFICATIONS.

GENERAL NOTES

- THE CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS AND ADVISE THE ENGINEER OF ANY CONFLICTS OF REPRESENTATION BETWEEN DRAWINGS AND/OR SPECIFICATIONS PRIOR TO COMMENCING WITH CONSTRUCTION.
- THE CONTRACTOR SHALL REVIEW THE SURVEY AND SHALL FIELD-VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING ANY WORK UNDER THIS CONTRACT AND NOTIFY THE ENGINEER IN WRITING OF ANY DIFFERENCES BEFORE COMMENCING WITH ANY CONSTRUCTION.
- HORIZONTAL COORDINATES ARE BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM. VERTICAL ELEVATIONS ARE BASED ON NAVD 88 DATUM.
- THE LOCATIONS, SIZES, AND ELEVATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO OBTAIN ANY AVAILABLE RECORD DRAWINGS AND SHALL DETERMINE THE EXACT LOCATION AND ELEVATION IN THE FIELD. THE CONTRACTOR SHALL ANTICIPATE THAT SCANNING AND EXCAVATION USING LIGHT EQUIPMENT AND HAND METHODS WILL BE NECESSARY IN AREAS NEAR EXISTING UTILITIES AND STRUCTURES TO AVOID DAMAGING THESE FACILITIES. THE CONTRACTOR SHALL CONTACT BELLSOUTH, THE LOCAL TELEPHONE COMPANY AND COMCAST, THE LOCAL CABLE TV PROVIDER TO VERIFY THE LOCATION OF BURIED TELEPHONE AND CABLE TV UTILITIES. NONE HAVE BEEN INDICATED ON THE DRAWINGS. CALL 1-800-432-4770 BEFORE DIGGING OR TRENCHING OPERATIONS BEGIN. CONTRACTOR SHALL ALSO CONTACT KEYS ENERGY TO LOCATE SECONDARY ELECTRIC LINES.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION IN THE FIELD PRIOR TO INSTALLING ANY NEW WORK THAT CROSSES OR CONNECTS TO EXISTING UTILITY SYSTEMS. LOCATIONS OF NEW UTILITIES SHALL BE ADJUSTED IN A MANNER APPROVED BY THE ENGINEER TO AVOID CONFLICTS. DAMAGES TO UTILITIES RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE CLIENT.
- ALL EXCAVATION, TRENCHING, SHEETING, SHORING AND BRACING SHALL BE INSTALLED AS REQUIRED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS, INCLUDING OSHA (29 CFR 1926).
- ALL ITEMS INDICATED TO BE REMOVED OR DEMOLISHED SHALL BE REVIEWED WITH THE OWNER TO DETERMINE IF THE ITEM IS TO BE PROPERTY OF THE CONTRACTOR. ALL ITEMS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS, UNLESS OTHERWISE NOTED. NO SALVAGE VALUE IS EXPRESSED OR IMPLIED BY THESE CONTRACT DOCUMENTS FOR ANY ITEMS TO BE REMOVED OR DEMOLISHED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF THE CONTRACTOR'S EQUIPMENT, MATERIALS, AND PERSONNEL, AND SHALL PROVIDE ADEQUATE BARRIERS TO PREVENT RISK TO OTHERS FROM THE CONTRACTOR'S ACTIVITIES.
- WHERE ACTUAL DIMENSIONS AND SIZES ARE PROVIDED IN THE DRAWINGS, THEY SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. LARGE SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.
- THE CONTRACTOR SHALL SEQUENCE HIS OPERATIONS SUCH THAT ORANGE MESH SAFETY FENCING IS PROVIDED ALONG ALL AREAS BEING TRENCHED AND NO TRENCH IS LEFT OPEN AT THE END OF THE WORK DAY.
- NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITH OUT FIRST OBTAINING A CONSTRUCTION METER FROM THE FLORIDA KEYS AQUEDUCT AUTHORITY.
- IF UNSATISFACTORY MATERIAL FOR ADEQUATE BEARING IS ENCOUNTERED AT THE NORMAL SUBGRADE, THE UNSATISFACTORY MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE FOUNDATION STABILIZATION MATERIAL AS SPECIFIED. REMOVE SOILS AND OTHER MATERIALS THAT ARE NOT SUITABLE MATERIALS FOR TRENCH BOTTOM TO SIX INCHES UNDER PIPE, MINIMUM.

REMOVE WET, YIELDING, OR MUCKY SOILS. REMOVE THE FOLLOWING SOILS:

- TYPE CH AND TYPE MH CLASS IV SOILS.
- ALL CLASS V SOILS.

REMOVE ORGANIC MATERIAL INCLUDING ROOTS, MULCH, OR OTHER VEGETABLE MATTER, WHICH IN THE OPINION OF THE ENGINEER, WILL RESULT IN UNSATISFACTORY FOUNDATION CONDITIONS.

REMOVE SOILS CONTAINING COBBLES, BOULDERS OR STONES LARGER THAN ONE AND ONE-HALF INCHES (1-1/2") IN DIAMETER.

REMOVE LEDGE ROCK AND HARDPAN. REMOVE ROCK AND HARDPAN TO PROVIDE BEDDING WIDTH 24 INCHES WIDER THAN PIPE.

REMOVE SOILS CONTAINING RUBBISH, TRASH, OR OTHER FOREIGN MATERIALS.

- IN GENERAL, EXISTING STRUCTURES AND UTILITIES ARE NOTED AS EXISTING AND/OR SHOWN IN LIGHT LINE WEIGHT. NEW CONSTRUCTION IS SHOWN IN HEAVY LINE WEIGHT.
- ALL FIELD LAYOUT AND SURVEYING FOR CONSTRUCTION OF THIS PROJECT SHALL BE PROVIDED BY THE CONTRACTOR AT HIS EXPENSE, UNDER THE DIRECTION OF A FLORIDA LICENSED PROFESSIONAL LAND SURVEYOR.



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EROSION CONTROL NOTES

- EROSION, SEDIMENT, AND TURBIDITY CONTROL MEASURES SHALL BE PROVIDED THROUGHOUT CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND REPAIRING ALL SLOPES AND SURFACES THROUGHOUT CONSTRUCTION AND UNTIL A STABLE SURFACE CONDITION EXISTS. THE CONTRACTOR SHALL MINIMIZE THE EXPOSED AREA AT ANY POINT DURING CONSTRUCTION AS MUCH AS PRACTICAL.
- FILTER FABRIC SILT FENCE SHALL BE IN CONFORMANCE WITH SECTION 985, FDOT SPECIFICATION.
- CONTRACTOR SHALL INSTALL EROSION CONTROLS NOTED ON DRAWINGS AND APPLICABLE PERMITS. EROSION CONTROLS SHALL BE MAINTAINED UNTIL A PERMANENT STAND OF GRASS IS PLANTED ONSITE.
- BALED HAY OR STRAW BARRIERS SHALL BE CONSTRUCTED AND MAINTAINED IN CONFORMANCE WITH FDOT INDEX NO. 103.
- SILT FENCE LOCATIONS SHOWN HEREON ARE FOR CLARITY ONLY AND SHOULD BE CONSTRUCTED WITHIN PROPERTY LINES.
- PROVIDE EROSION CONTROL MEASURES CONSISTING OF STAKED SILT FENCES AND FILTER SOCK ALONG THE PROPOSED LIMITS OF CONSTRUCTION AS INDICATED ON THE DRAWINGS. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO AVOID ADVERSE IMPACTS TO JURISDICTIONAL AREAS (WETLANDS OR WATER BODIES) AND OFF-SITE LANDS AND WATERBODIES. MAINTAIN THESE MEASURED DAILY UNTIL CONSTRUCTION ACCEPTANCE BY THE OWNER AND THEN REMOVE AND LEGALLY DISPOSE OF SAID MEASURES.
- EROSION CONTROL SHALL MAINTAINED WITHIN CONSTRUCTION AREA BY QUICKLY STABILIZING DISTURBED AREA TO PREVENT THE RELEASE OF SEDIMENT. THIS SHALL BE ACCOMPLISHED USING GRASS COVER, FILTER SOCK AND OTHER MEANS ACCEPTABLE TO OWNER, ENGINEER AND REGULATORY AGENCIES.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL, AT THE REQUEST OF THE OWNER OR AS NECESSARY MODIFY, RELOCATE THE ENVIRO-FENCE AND/OR SILT FENCE TO ALLOW FOR ACCESS AND TO COMPLETE CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ADEQUATE EROSION CONTROL AT ALL TIMES.
- DURING CONSTRUCTION, THE CONTRACTOR WILL PROVIDE TEMPORARY SEEDING AND MULCHING FOR AREA THAT HAVE BEEN CLEARED (INCLUDING AREAS OF CONCRETE AND PAVEMENT REMOVAL) AND NOT REWORKED WITHIN 7 CALENDAR DAYS DURING THE WET SEASON (APRIL THROUGH SEPTEMBER AND 14 CALENDAR DAYS DURING THE DRY SEASON (OCTOBER THROUGH MARCH). ALSO, ALL SIDE SLOPES SHALL BE SODDED OR SEEDED AND MULCHED WITHIN 7 DAYS DURING WET SEASON AND 14 DAYS DURING THE DRY SEASON.
- ALL SURFACE WATER DISCHARGE FROM SITE, INCLUDING DEWATERING DISCHARGE SHALL MEET STATE WATER QUALITY STANDARDS (LESS THAN 29 NTU ABOVE BACKGROUND) PRIOR TO REACHING ANY WATERS OF THE STATE INCLUDING WETLAND.
- IN THE EVENT THAT THE EROSION PREVENTION AND CONTROL DEVICES SHOWN IN THESE PLANS PROVE NOT TO BE EFFECTIVE, ALTERNATE METHODS FOR MAINTAINING STATE WATER QUALITY STANDARDS FOR DISCHARGE FROM THE CONSTRUCTION SITE WILL BE REQUIRED. ANY ALTERNATE EROSION PREVENTION AND CONTROL DEVICES MUST BE APPROVED BY THE CITY AND SFWMD COMPLIANCE PERSONNEL PRIOR TO PLACEMENT.

Seal:

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FL P.E. NO. 51468

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OLIVIA STREET DRAINAGE
Olivia Street between Emma and Fort Street
STORM SYSTEM OVERFLOW
FOR
City of Key West, 1300 White Street, Key West, Fl. 33040

Consultants:

Submissions:

Job #:	241024
Drawn By:	AEP
Checked By:	AEP

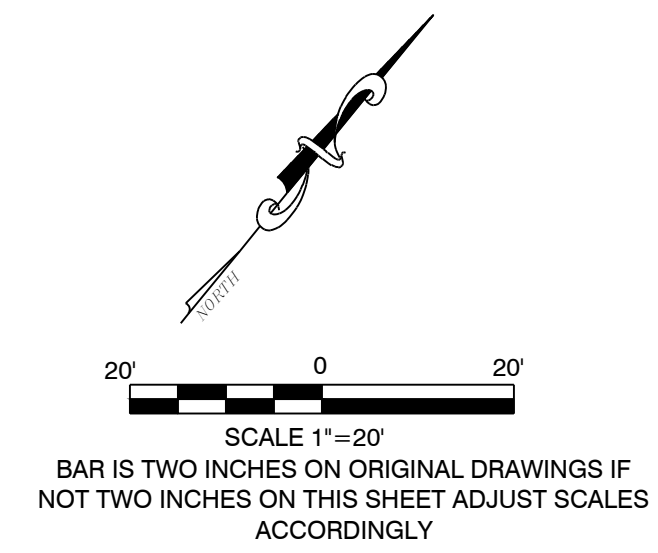
Title:

GENERAL
NOTES

Sheet Number:

C-100

Date: March 4, 2025



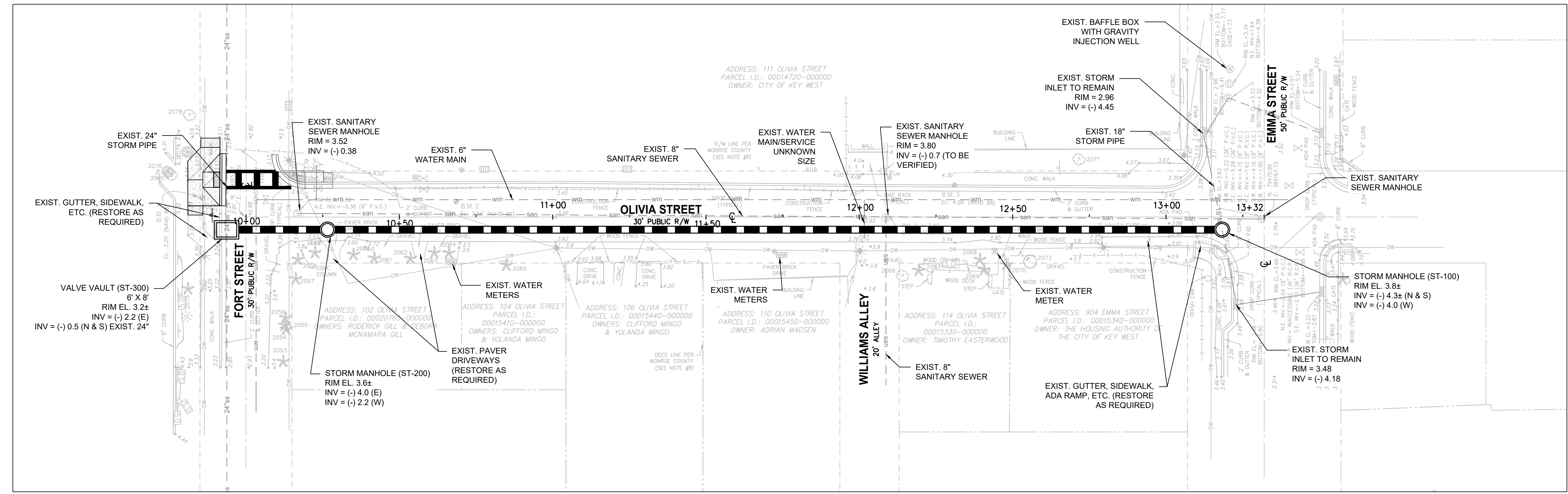
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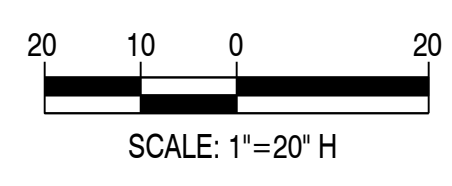
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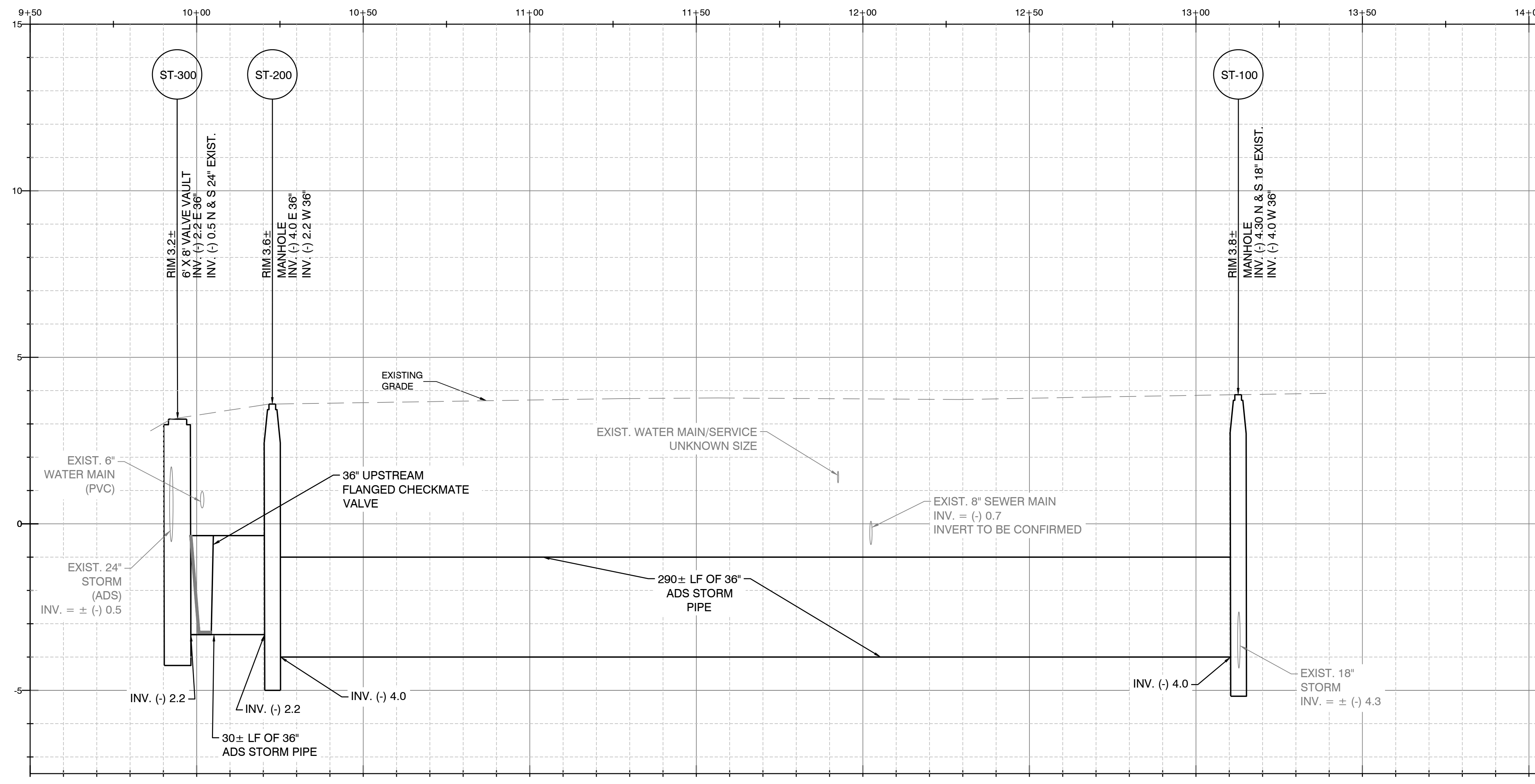


PLAN - OLIVIA STREET



- NOTES:
1. THE LOCATIONS, SIZES, AND ELEVATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO OBTAIN ANY AVAILABLE RECORD DRAWINGS AND SHALL DETERMINE THE EXACT LOCATION AND ELEVATION IN THE FIELD. THE CONTRACTOR SHALL ANTICIPATE THAT SCANNING AND EXCAVATION USING LIGHT EQUIPMENT AND HAND METHODS WILL BE NECESSARY IN AREAS NEAR EXISTING UTILITIES AND STRUCTURES TO AVOID DAMAGING THESE FACILITIES.
 2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION OF UTILITIES IN THE FIELD PRIOR TO ORDERING NEW STRUCTURES AND PRIOR TO INSTALLING ANY NEW WORK THAT CROSSES OR CONNECTS TO EXISTING UTILITY SYSTEMS.
 3. FOR NEW STORM PIPE THE CONTRACTOR SHALL PROVIDE ADS PIPE ADAPTER FLEXIBLE WATERTIGHT WATERSTOP CONNECTION WITH PIPE ADAPTER FOR ADS CORRUGATED HDPE PIPE TO STORM STRUCTURES, OR APPROVED EQUAL ADS PIPE ADAPTERS MEETING THE REQUIREMENTS OF ASTM F 2510 AND ASTM C 1478 FOR WATERTIGHT FLEXIBLE CONNECTIONS.

- SWPPP GENERAL NOTES**
- ALL AREAS WITHIN THE PROJECT LIMITS WILL BE SUBJECTED TO SOIL DISTURBANCE.
 - THE DEPICTED BEST MANAGEMENT PRACTICES (BMP'S) DETAILS AND SPECIFICATIONS ARE ONLY A SUGGESTED APPROACH DEVELOPED FOR USE BY THE OWNER/CONTRACTOR TO ASSIST THEM IN IMPLEMENTING APPROPRIATE POLLUTION PREVENTION TECHNIQUES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING THE SWPPP.
 - THE CONTRACTOR SHALL SUBMIT A "NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES, DEP FORM 62-621.300(4)(B)," ALSO KNOWN AS NOTICE OF INTENT OR NOI, TO THE DEPARTMENT; AND SUBMIT THE PERMIT FEE.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE BEST MANAGEMENT PRACTICES AS OUTLINED IN THE CIVIL DOCUMENTS, THE STORMWATER POLLUTION PREVENTION PLAN, AND SPECIFICATION.
 - THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL PRIOR TO STARTING CONSTRUCTION.

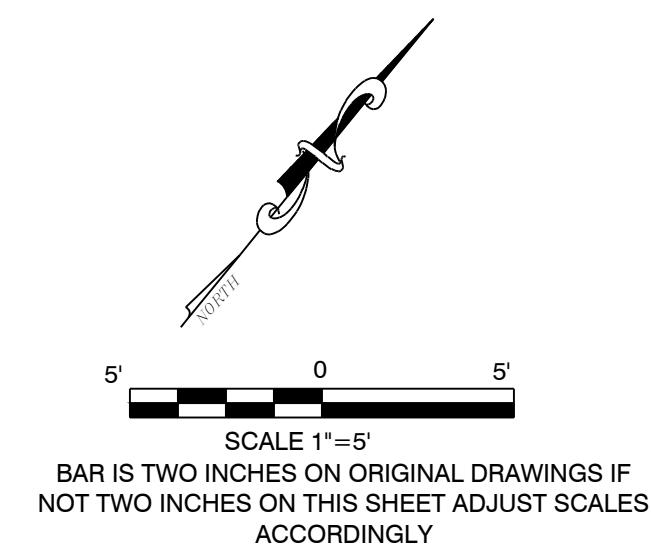


ELEVATIONS ARE NAVD 88 DATUM

1
C200

STORM DRAINAGE - ST-100 TO ST-300 PROFILE

SCALE: 1" = 20' H, 1" = 4' V



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Olivia Street between Emma and Fort Street
STORM SYSTEM OVERFLOW
FOR
City of Key West, 1300 White Street, Key West, Fl. 33040

Consultants:

Submissions:

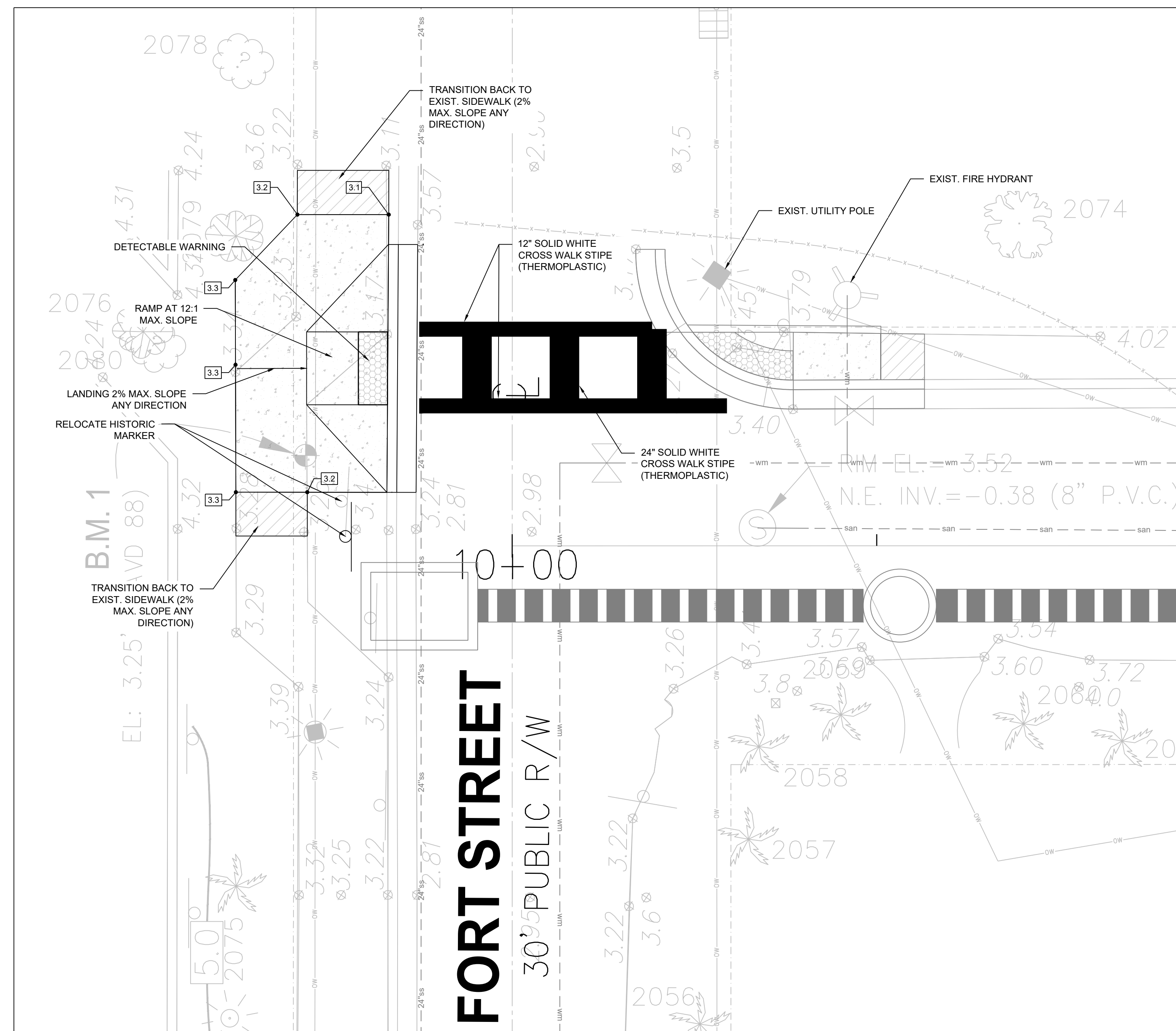
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Title:
CURB RAMP
PLAN

Sheet Number:

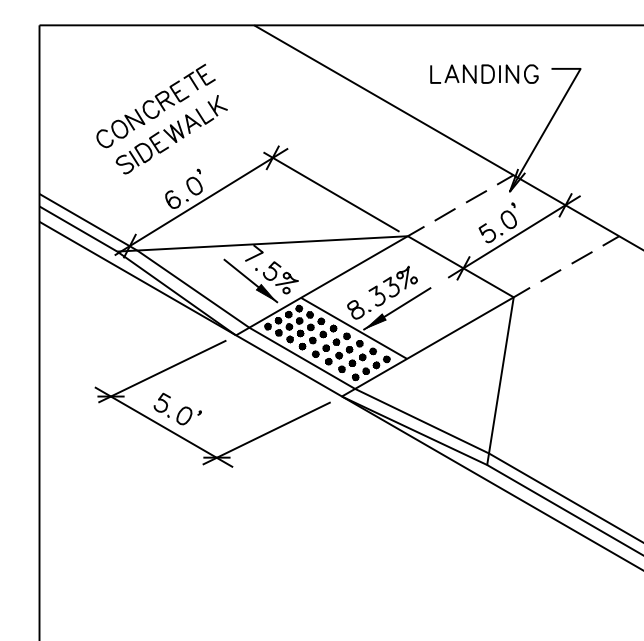
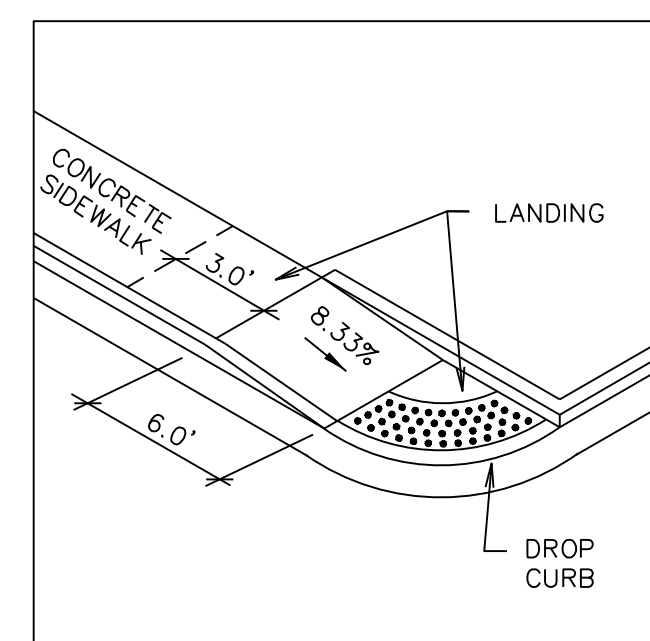
C-202

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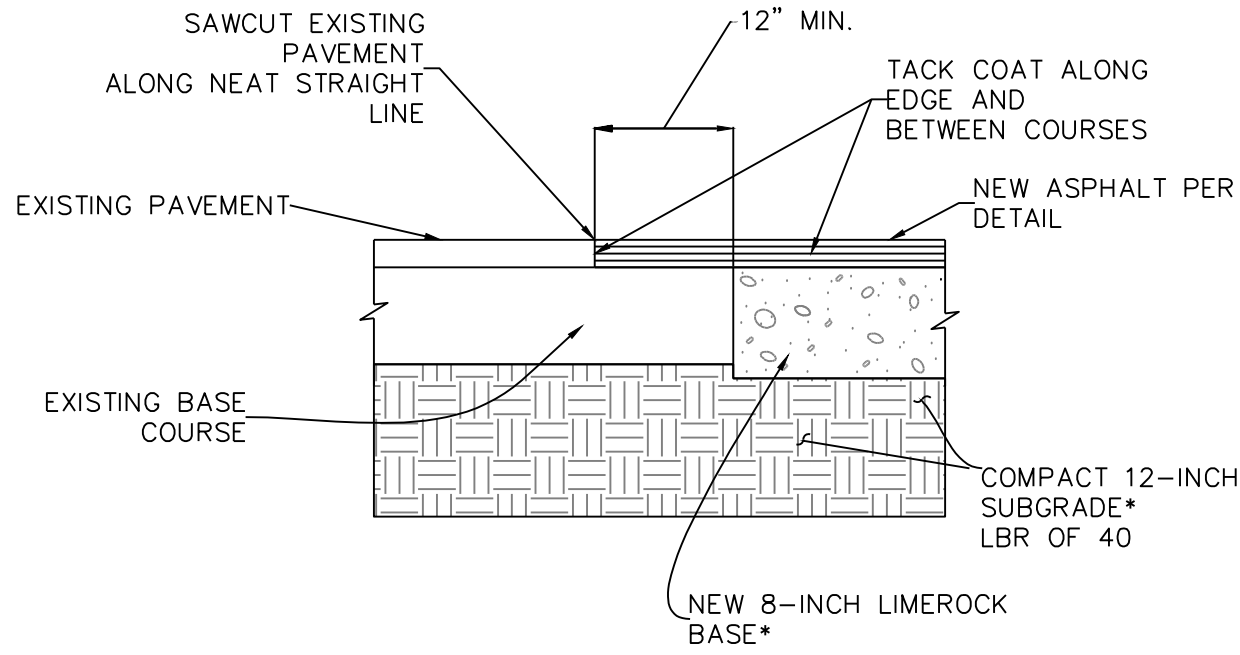
ELEVATIONS ARE NAVD 88 DATUM

CURB RAMP - OLIVIA & FORT STREET



- NOTES:
1. PROVIDE DETECTABLE WARNING PANELS PER ADA REQUIREMENTS. (MINIMUM OF 2' DEEP BY THE WIDTH OF RAMP).
 2. ALL LANDINGS MUST HAVE 1:48 CROSS SLOPE AND RAMPING SLOPE. LANDING MUST BE AS WIDE AS THE RAMP.
 3. CROSS SLOPE ON RAMP MUST BE 1:48 OR LESS.
 4. COUNTER SLOPES OF ADJOINING GUTTERS AND PAVING ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20.

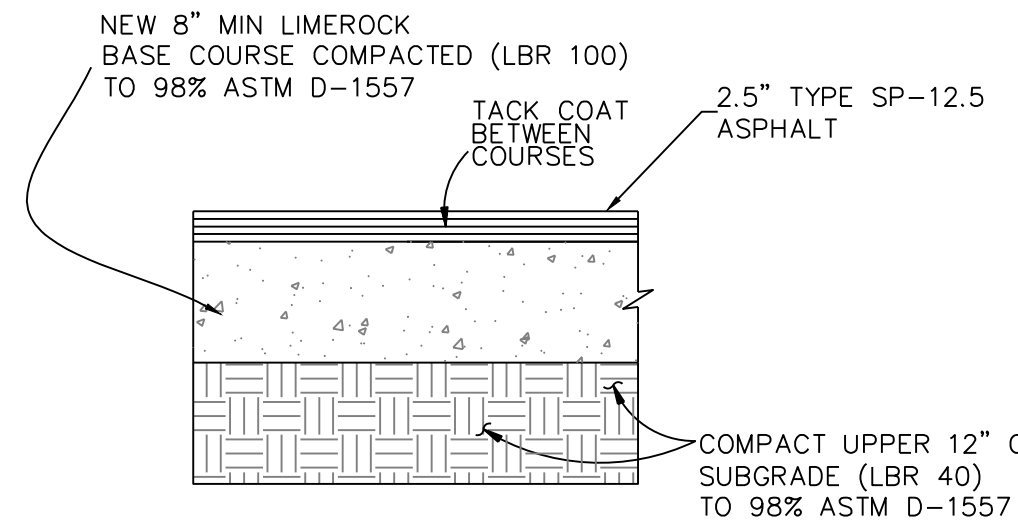
1 CURB RAMP
Not to Scale



*NOTE:
ALL MATERIALS SHALL BE PER FDOT STANDARD SPECIFICATIONS.

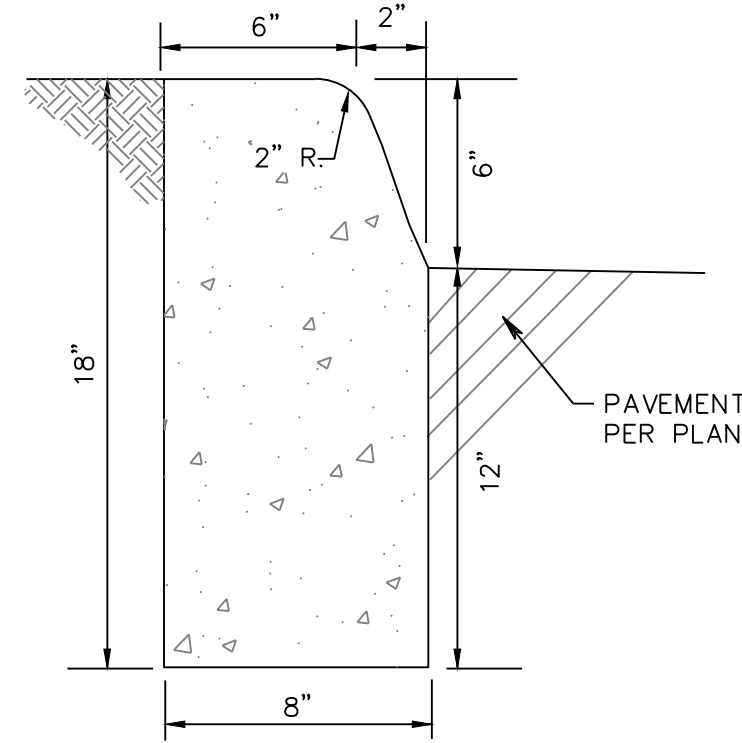
PAVEMENT CONNECTION TO EXIST. SURFACE

1
NTS



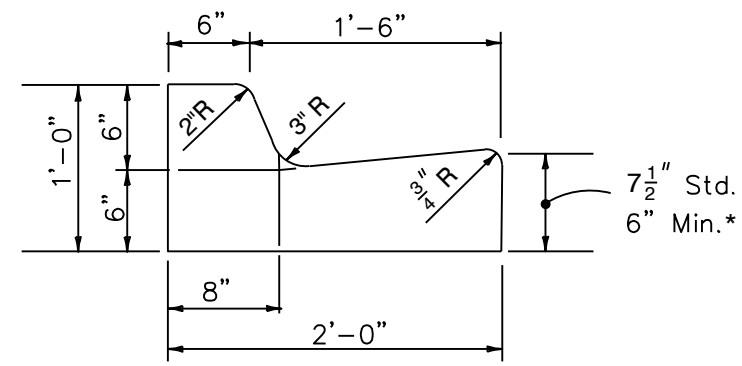
2 ASPHALT PAVING

NTS



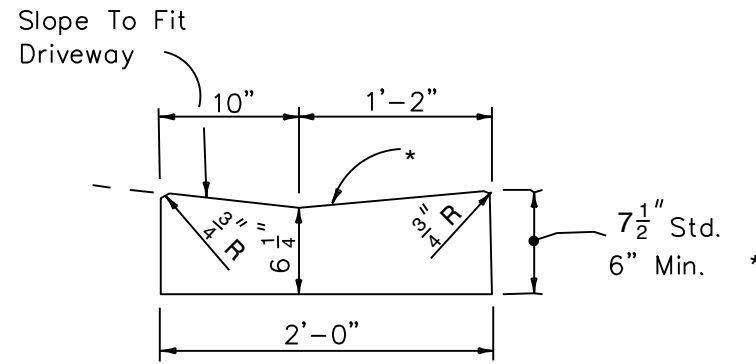
3 FDOT TYPE D CURB

NTS



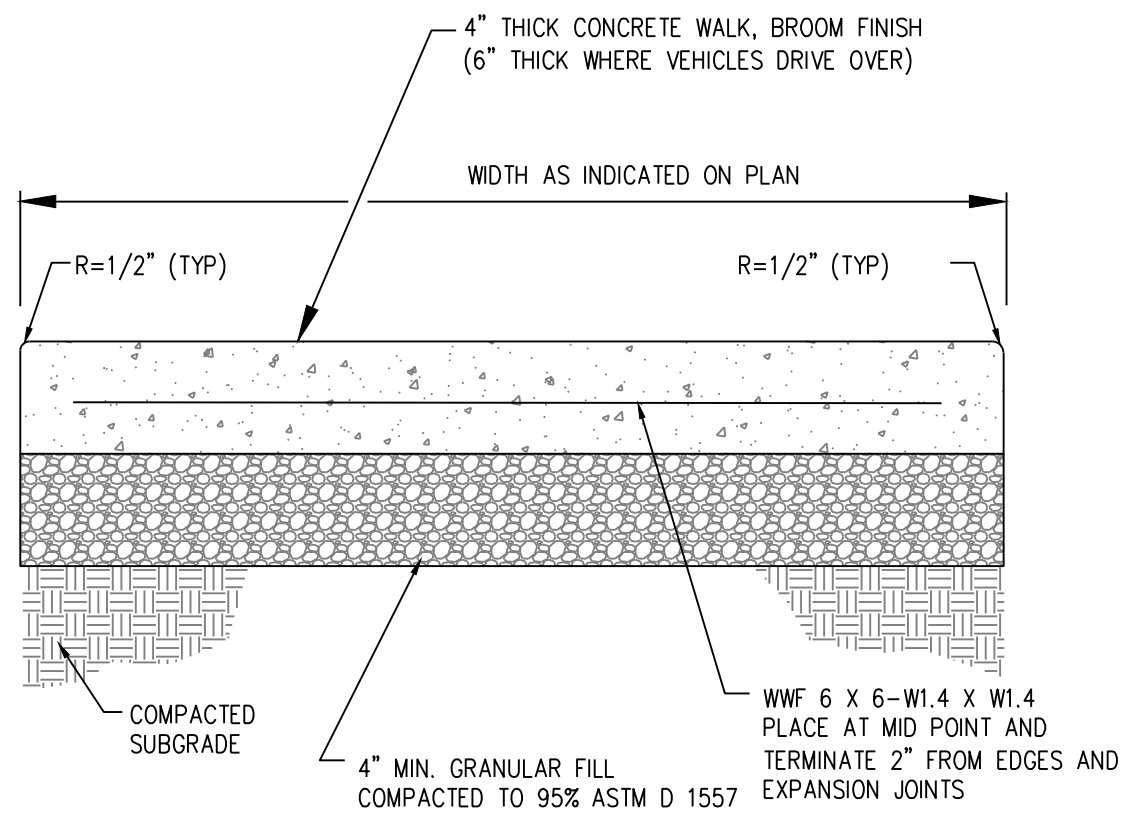
5 FDOT TYPE F CURB AND GUTTER

NTS



6 FDOT DROP CURB

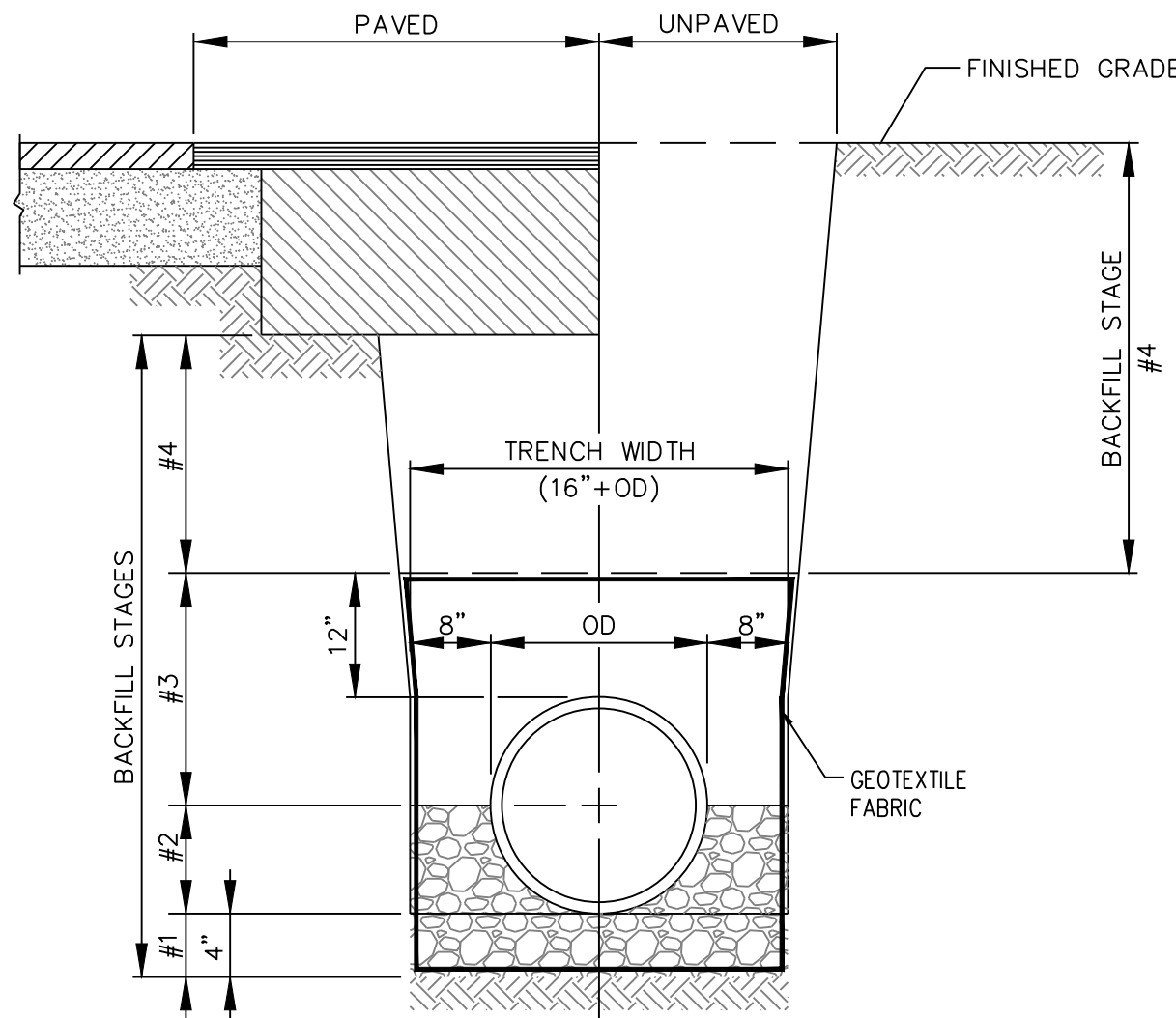
NTS



NOTES:
1. PROVIDE EXPANSION JOINTS AT 40' O.C. MAX.
2. PROVIDE JOINT SPACING EQUAL TO WIDTH OF SIDEWALK.

7 TYPICAL SIDEWALK

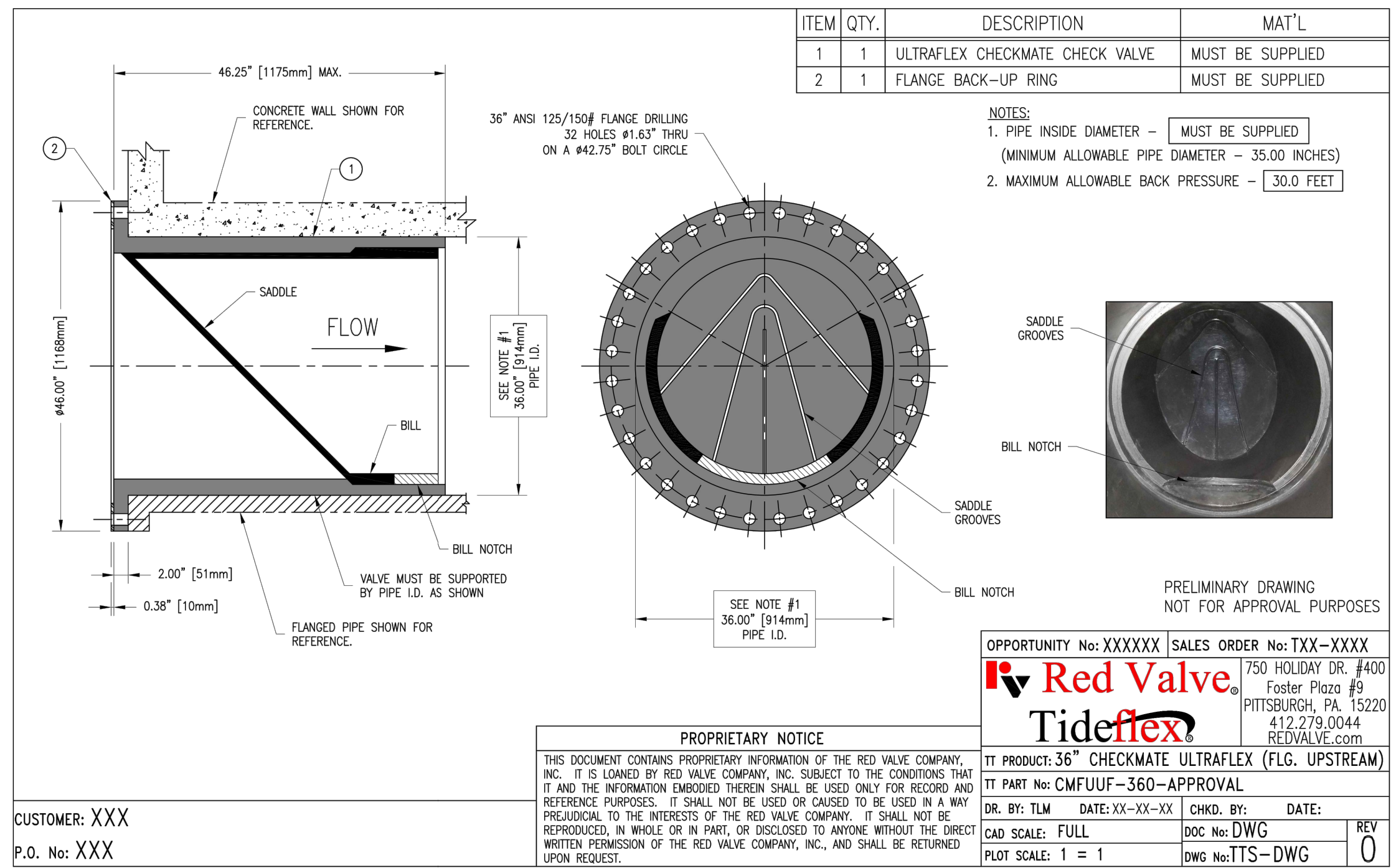
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SCHEDULE	
STAGE	MATERIAL
#1	BEDDING: NO. 57 STONE
#2	PIPE BEDDING: NO. 57 STONE
#3	PIPE BACKFILL: NO. 57 STONE (12" ABOVE WATER TABLE)
#4	TRENCH BACKFILL: CLASS II FILL (MAX. SIZE 1.5") PAVED ROADWAYS-IN 6" LIFTS UNPAVED ROADWAYS-IN 6" LIFTS GRASS SURFACE-IN 12" LIFTS

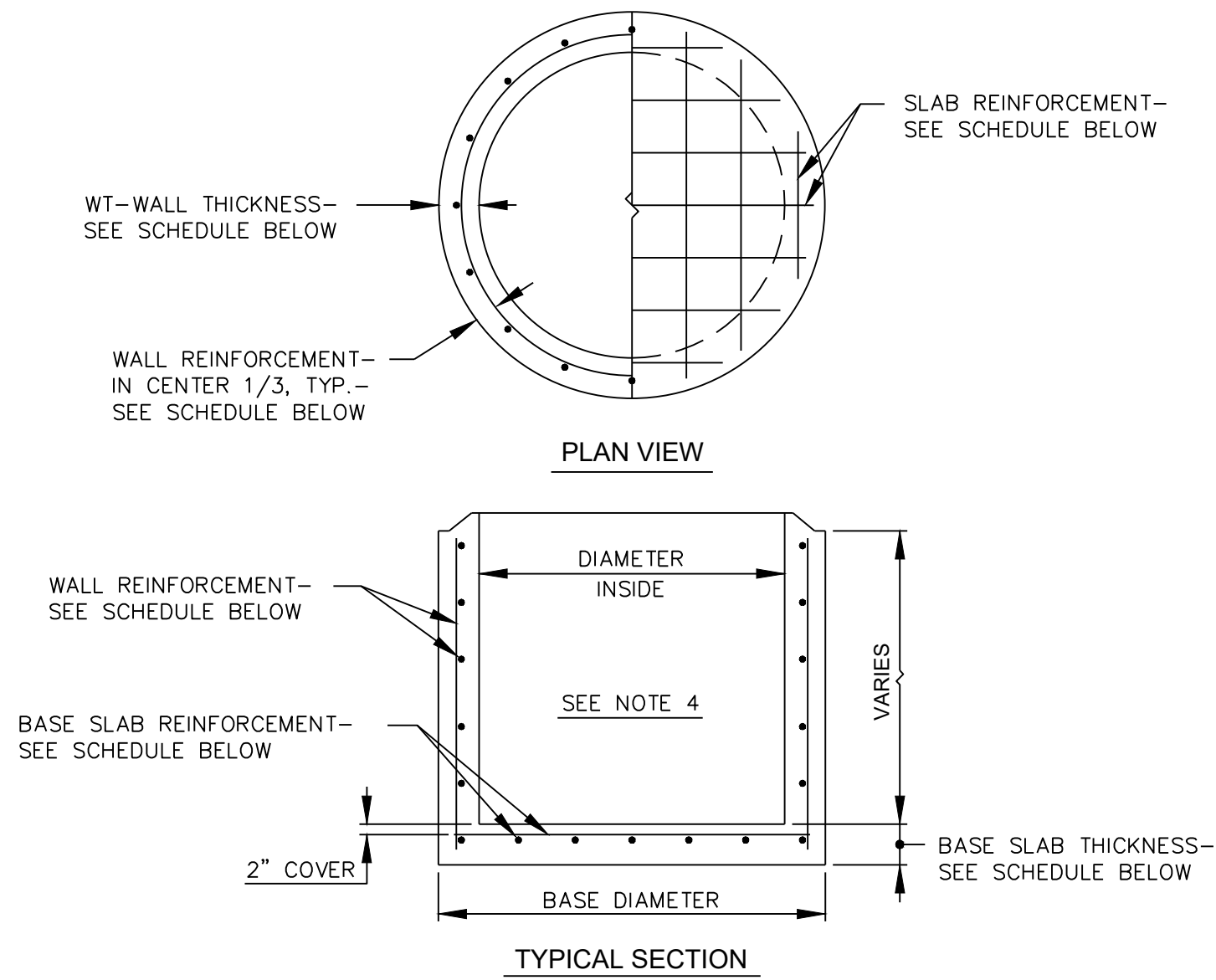
8 STORM PIPE BEDDING DETAIL

Not to Scale



9 TYPICAL ULTRAFLEX CHECKMATE CHECKVALVE

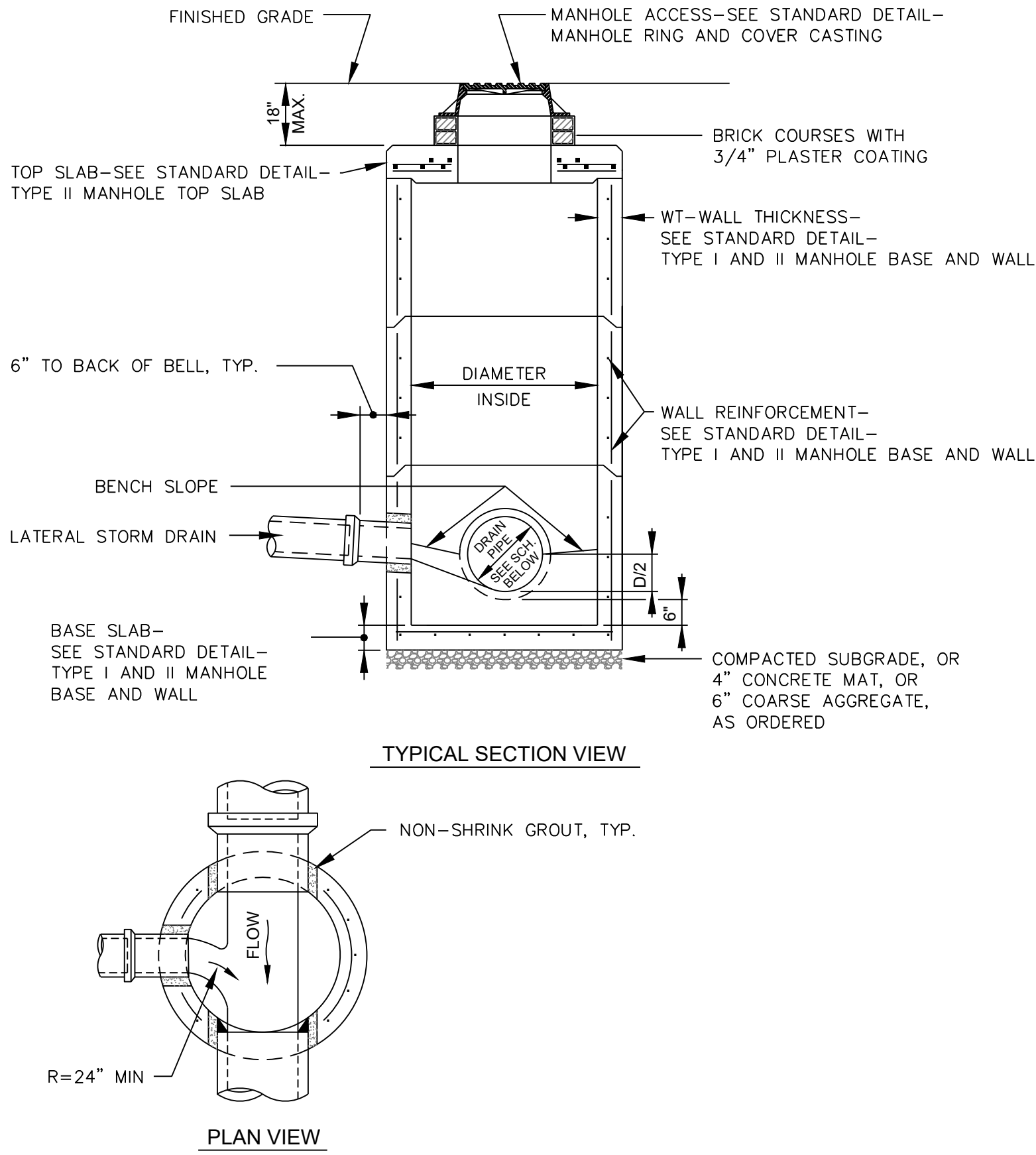
NTS



SCHEDULE					
DIAMETER INSIDE	BASE DIAMETER	WT WALL THICKNESS	WALL REINFORCEMENT	BASE SLAB THICKNESS	BASE SLAB REINFORCEMENT
4'	5'-0"	8"	#4 @ 12" EW	8"	#6 @ 12" EW
5' (3)	6'-4"	8"	#4 @ 12" EW	8"	#6 @ 12" EW
6'	7'-4"	8"	#4 @ 12" EW	8"	#6 @ 12" EW
7'	8'-4"	8"	#4 @ 12" EW	8"	#6 @ 10" EW
8'	9'-4"	8"	#4 @ 12" EW	10"	#6 @ 10" EW

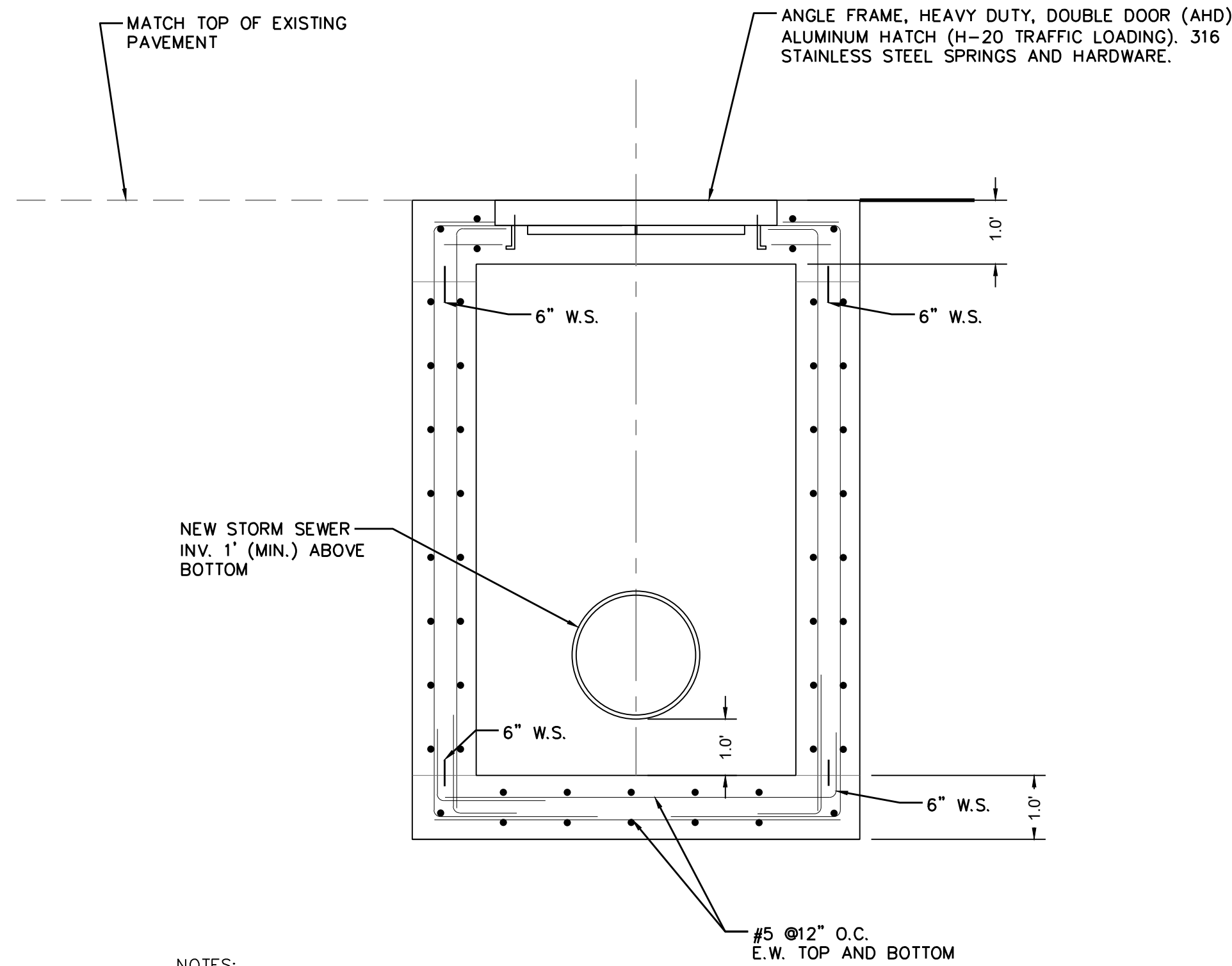
- NOTES:
- FOR GENERAL NOTES, SEE STANDARD DETAIL-STORM STRUCTURE NOTES.
 - WALL REINFORCEMENT MAY BE WELDED WIRE AS PER ASTM C-478.
 - MAXIMUM SIZE ALLOWED FOR TYPE I MANHOLE.
 - ADD 2 #4 REINFORCING BARS AT 3" CENTERS AT THE TOP AND SIDES OF ALL WALL OPENINGS.

1 **STORM MANHOLE BASE & WALL DETAIL**
Not to Scale



NOTE:
FOR GENERAL NOTES, SEE STANDARD DETAIL-STORM STRUCTURE NOTES.

2 **PRECAST STORM MANHOLE DETAIL**
Not to Scale



- NOTES:
- CONCRETE SHALL BE 4000 PSI AT 28 DAYS, TYPE II CEMENT
 - ALL REINFORCEMENT TO BE GRADE 60 STEEL AND PER ASTM A615.
 - REINFORCEMENT MAY BE ADJUSTED PER MANUFACTURER AND SHALL MEET FDOT INDEX 425-010.
 - STRUCTURES TO BE SET ON 6" COARSE AGGREGATE BEDDING

3 **TYPICAL VALVE VAULT DETAIL**
Not to Scale

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FOR
City of Key West, 1300 White Street, Key West, FL 33040

Consultants:

Submissions:

Job #: 241024
Drawn By: AEP
Checked By: AEP

Title:
DETAILS

Sheet Number:
C-302

Date: March 4, 2025