

J:\137767\Lake_Worth_S\7.0_Production\7.03_Design\01_Gen_Sheets\137767-COVER.dwg Modified:6/16/2022 By:spence Plotted By:christopher_pence

LEGEND

WATER & SEWER

WATER MAIN

BACKFLOW PREVENTER

WATER METER

FIRE HYDRANT ASSEMBLY

22" BEND FITTING

TEE FITTING

45" BEND FITTING

REDUCER

SIAMESE CONNECTION

SEWER MAIN

SEWER MANHOLE

SEWER LATERAL W/ CLEANOUT

PAVING, GRADING & DRAINAGE

DRAINAGE CULVERT

CATCH BASIN

DRAINAGE FLOW

PROPOSED GRADE

W = X.XX
D = X.XX

F=FORCEMAIN
D=DRAINAGE
S=SEWER
W=WATER

MILLING AND RESURFACING AREA

EXFILTRATION TRENCH

TYPICAL SECTION CUT



EV PARKING SPACE DETAIL

NOTES:

1.

THE FOUR (4) EV PARKING SPACES ARE TO BE LOCATED AT THE SINGLE COMPACT PARKING SPACES ON NORTHEAST PARKING AREA AS NOTED IN THE DETAIL ABOVE.
2.

AS REQUIRED, 4% OF THE OFF-STREET PARKING SHALL BE PROVIDED AS EV PARKING SPACES. BASED ON THE 85 OFF-STREET PARKING SPACES PROVIDED, THE PROJECT WILL PROVIDE 4 EV PARKING SPACES.

GENERAL NOTES

1.

ALL CONSTRUCTION SHALL CONFORM WITH THE FOLLOWING:
A) PLANS AND SPECIFICATIONS PREPARED BY IBI GROUP (FLORIDA) INC.
B) PAVING, GRADING AND DRAINAGE: MINIMUM STANDARDS OF THE CITY OF LAKE WORTH BEACH, SOUTH FLORIDA WATER MANAGEMENT DISTRICT AND SOUTH BROWARD DRAINAGE DISTRICT.
C) ROADS AND STREETS: CITY OF LAKE WORTH BEACH.
D) WATER DISTRIBUTION: THE REQUIREMENTS OF THE FIRE MARSHALL, HEALTH DEPARTMENT AND CITY OF LAKE WORTH BEACH.
E) SANITARY SEWER: CITY OF LAKE WORTH BEACH AND PALM BEACH COUNTY E.P.G.M.D.
F) ALL APPLICABLE LOCAL, COUNTY AND STATE CODES AND ORDINANCES.
G) WHEN CONFLICTS, OMISSIONS OR MODIFICATIONS EXIST, THE STRICTER PROVISION SHALL GOVERN.
H) FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION (LATEST EDITION) AND FEDERAL ADA ACCESSIBILITY GUIDELINES OR BUILDINGS AND FACILITIES (LATEST EDITION).
I) IN THE EVENT OF CONFLICT OR OMISSION BETWEEN THE PLANS AND THESE CODES/GUIDELINES, CONSTRUCTION SHALL BE EXECUTED IN CONFORMANCE WITH THE STRICTEST PROVISIONS OF THE CODES/GUIDELINES.
2.

SEPARATE PERMITS SHALL BE REQUIRED FOR ANY IMPROVEMENT WORK IN THE PUBLIC RIGHT- OF-WAY.
3.

THESE PLANS SHOW THE APPROXIMATE LOCATION OF ALL KNOWN UTILITIES AND STORM DRAINS FOR THE PURPOSE OF AIDING THE OWNER AND HIS CONTRACTOR IN THE CONNECTION TO THOSE FACILITIES OR THE REMOVAL OR AVOIDANCE OF THOSE FACILITIES WHICH CONFLICT WITH THE PROPOSED CONSTRUCTION. THE PLANS HAVE BEEN PREPARED WITH THE BEST INFORMATION AVAILABLE, HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND EXPOSE EXISTING FACILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO SAID FACILITIES AS A RESULT OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL LOCATE AND EXPOSE ALL EXISTING UTILITIES AND STORM DRAINS TO BE CONNECTED SUFFICIENTLY AHEAD OF CONSTRUCTION TO ALLOW REDESIGN BY THE ENGINEER. IF SUCH INSTALLATIONS ARE FOUND TO BE DIFFERENT THAN SHOWN ON THESE PLANS, CONTRACTOR SHALL CONTACT CALL SUNSHINE @ 1-800-432-4770 AND ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION.
4.

ALL MATERIALS REMOVED FROM THE SITE ARE THE PROPERTY OF THE OWNER, AND AT HIS DIRECTION, SHALL BE DISPOSED OF OFF-SITE OR SAVED FOR HIS USE. THE CONTRACTOR SHALL PROVIDE A CONTINGENCY BID PRICE FOR DISPOSAL OF MATERIAL OFF-SITE AND PAYMENT SHALL BE BASED ON THE ACTUAL QUANTITY OF MATERIAL REMOVED.
5.

THE EXISTING ELEVATIONS SHOWN HEREON ARE FOR THE PURPOSE OF INDICATING THE APPROXIMATE GROUND ELEVATION AT THE LOCATION SHOWN AND IN NO WAY REFLECT SURFACE CONDITIONS OR SUBSURFACE SOIL CONDITIONS. ALL SUBSURFACE CONDITIONS MUST BE VERIFIED.
6.

UNLESS OTHERWISE SPECIFIED ALL MUCK AND YIELDING MATERIAL WITHIN THE ROADWAYS, PARKING AREAS AND BUILDING AREAS SHALL BE REMOVED COMPLETELY AND REPLACED WITH CLEAN FILL MATERIAL. COMPACTED TO NOT LESS THAN 100% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY AASHTO T-99 OR 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. NO ROCKS OR BOULDERS TO EXCEED 3" DIAMETER IN BUILDING PAD.
7.

ALL UNDERGROUND DRAINAGE AND UTILITIES SITUATED IN PAVED ROADWAYS OR PARKING AREAS, INCLUDING SEWER AND WATER SYSTEMS, DRAINAGE, ELECTRICAL DISTRIBUTION, LIGHTING, CATV, TELEPHONE AND CONDUITS SHALL BE COMPLETED BEFORE ANY SUBGRADE OR PAVING WORK COMMENCES.
8.

THE CONTRACTOR SHALL MAINTAIN ALL UTILITIES WITHOUT INTERRUPTION IN SERVICE UNLESS AUTHORIZED BY THE OWNER AND ENGINEER.
9.

BENCH MARK INFORMATION: SEE SURVEY. ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
10.

THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR PROTECTING ALL SURVEY STAKES AND MONUMENTS. REPLACEMENT COSTS OF ALL STAKES SHALL BE BORNE BY THE CONTRACTOR.
11.

CONSTRUCTION OBSERVATION WILL BE PROVIDED BY THE ENGINEER AND IS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION AND AT LEAST 24 HOURS BEFORE REQUIRING INSPECTION ON EACH AND EVERY PHASE OF WORK.
12.

A PRE-CONSTRUCTION MEETING IS TO BE HELD BETWEEN THE ENGINEER OF RECORD, THE CONTRACTOR, AND REPRESENTATIVES OF THE OWNER, UTILITIES, ENGINEERING DEPARTMENT AND DRAINAGE DISTRICT (IF APPLICABLE) PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE MEETING WILL BE SCHEDULED BY THE CONTRACTOR.
13.

SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
14.

THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF APPROVED CONSTRUCTION PLANS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION.
15.

THE CONTRACTOR SHALL CONFIRM ALL MEASUREMENTS IN THE FIELD AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCY WITH THE DRAWINGS PRIOR TO PERFORMING THE WORK. ALL QUANTITIES SHALL BE PAID ON THE BASIS OF FIELD MEASUREMENTS OF COMPLETED WORK, UNLESS THE CONTRACT PROVIDES FOR A LUMP SUM. PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
16.

COMPLETE "AS-BUILT" INFORMATION RELATIVE TO PIPE, STRUCTURES, VALVES, SERVICES, FITTINGS, LENGTH, VERTICAL ELEVATION, QUANTITY, AND MATERIAL SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE WORK. ALL AS-BUILT MEASUREMENTS SHALL BE TAKEN BY AN INDEPENDENT LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA AND INCLUDED IN THE "AS-BUILT" INFORMATION, FURNISHED BY THE CONTRACTOR AT HIS EXPENSE. FINAL ACCEPTANCE OF THE PROJECT IS SUBJECT TO THE FINAL REVIEW AND APPROVAL OF THE "AS-BUILT" INFORMATION FURNISHED TO THE REGULATORY AGENCIES, THE APPLICABLE UTILITY AND THE ENGINEER.
17.

ALL EXISTING PIPE WHICH IS TO REMAIN IN THE GROUND BUT IS NOT TO BE USED SHALL BE PLUGGED TO PREVENT SOIL FROM ENTERING THE PIPE AND CAUSING GROUND SETTLEMENT. ALL WATER AND SEWER LINES SHALL BE PLUGGED WITH STANDARD PLUGS DESIGNED FOR THE GIVEN TYPE OF PIPE. DRAINAGE CULVERTS SHALL BE PLUGGED WITH BRICK AND MORTAR.
18.

COMPACTED BACKFILL SHALL BE PLACED ALONGSIDE OF AND OVER ALL UNDERGROUND UTILITIES. DENSITY TESTS SHALL BE TAKEN TO VERIFY BACKFILL COMPACTION. DENSITY TESTS FOR SUBGRADE AND BASE MATERIALS SHALL BE PERFORMED AT THE DIRECTION OF THE ENGINEER. PROCTOR TESTS SHALL BE PAID FOR BY THE OWNER. ALL DENSITY TESTS SHALL BE PAID FOR BY THE OWNER IF THE REQUIRED DENSITY IS ACHIEVED. CONTRACTOR SHALL PAY FOR ALL RETESTS.
19.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPACTING THE BACKFILL IN ALL TRENCHES CREATED BY THE REMOVAL OF EXISTING UTILITIES TO THE SAME SPECIFICATIONS AS REQUIRED FOR UTILITY CONSTRUCTION UNDER PAVEMENT AREAS OR HOUSE PAD COMPACTION AS APPROPRIATE DEPENDING ON THE TRENCH LOCATION. THE CONTRACTOR SHALL RESTORE THE SITE, INCLUDING SPRINKLER SYSTEMS, ETC., TO EQUAL OR BETTER THAN THE ORIGINAL CONDITION WITHOUT EXTRA COSTS TO THE OWNER.
20.

THE MINIMUM FINISHED FLOOR ELEVATION FOR ANY BUILDING SHALL BE SET AT OR ABOVE ELEVATION --- WHICH IS THE PROJECTED FLOOD STAGE PRODUCED BY THE ONE IN ONE HUNDRED YEAR FREQUENCY STORM PER SFWMD PERMIT.
21.

PAVEMENT MARKINGS AND TRAFFIC SIGNS SHALL CONFORM TO LOCAL REGULATIONS AND TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS". PAVEMENT MARKINGS SHALL BE HIGHLY REFLECTIVE THERMOPLASTIC UNLESS OTHERWISE NOTED.
22.

THE CONTRACTOR SHALL HAVE COMPLETE RESPONSIBILITY FOR THE QUALITY AND EXECUTION OF THE WORK, THE TECHNIQUES AND SEQUENCES OF CONSTRUCTION, PROJECT SECURITY AND THE MAINTENANCE OF SAFETY DEVICES AND PRACTICES IN ACCORDANCE WITH O.S.H.A. AND ALL OTHER APPLICABLE STANDARDS. THE ENGINEER HAS NO DUTY IN CONNECTION THEREWITH THE CONTRACTOR SHALL PROVIDE ADEQUATE SUPERVISION OF THE WORK AND SHALL SCHEDULE ALL REQUIRED TESTS AND INSPECTIONS.
23.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING CONFLICTS BETWEEN STORM DRAINS AND WATER MAINS OR FORCE MAINS PLACED AT MINIMUM COVER. IN CASE OF CONFLICT, WATER MAIN OR FORCE MAIN ALIGNMENT SHALL BE ADJUSTED TO CLEAR THE STORM DRAIN WITH 18" MINIMUM SEPARATION. IN CASE OF CONFLICT BETWEEN WATER MAIN AND FORCE MAIN, THE WATER MAIN SHALL BE LOWERED TO PASS UNDER WATER MAIN WITH 18" MINIMUM SEPARATION. NO ADDITIONAL PAYMENT SHALL BE DUE TO CONTRACTOR FOR RAISING OR LOWERING THE MAINS OR THE ADDITIONAL FITTINGS USED THEREON. ANY REDUCTION IN THE MINIMUM 18" SEPARATION SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.
24.

WHENEVER IT IS NECESSARY, IN THE INTEREST OF SAFETY, TO BRACE THE SIDES OF A TRENCH, THE CONTRACTOR SHALL FURNISH, PUT IN PLACE AND MAINTAIN SUCH SHEETING OR BRACING AS MAY BE NECESSARY TO SUPPORT THE SIDES OF THE EXCAVATION TO ENSURE PERSONNEL SAFETY, AND TO PREVENT MOVEMENT WHICH CAN IN ANY WAY DAMAGE THE WORK OR ENDANGER ADJACENT STRUCTURES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SEQUENCE, METHODS, AND MEANS OF CONSTRUCTION, AND FOR THE IMPLEMENTATION OF ALL OSHA AND OTHER SAFETY REQUIREMENTS.
25.

THE CONTRACTOR SHALL ENSURE THAT EXISTING AND PROPOSED TRAFFIC CONTROL SIGNS ARE NOT OBSCURED BY EXISTING OR PROPOSED LANDSCAPING.
26.

THE CONTRACTOR SHALL, PRIOR TO THE START OF CONSTRUCTION, EXPOSE EXISTING UTILITIES AT EACH POINT OF CONNECTION AND CROSSING, AND REPORT TO THE ENGINEER THE SIZE, MATERIAL AND ELEVATION.
27.

CONTRACTOR SHALL, PRIOR TO START OF CONSTRUCTION, FILE FORM 62-621.300(4)(b) (NPDES N.O.I. TO USE GENERIC PERMIT) WITH THE FLORIDA DEPT. OF ENVIRONMENTAL PROTECTION.

PROJECT SPECIFIC NOTES

1.

THE CONTRACTOR IS TO COORDINATE HIS/HER WORK AND SITE ACCESS WITH THE OTHER ENTITIES THAT MAY BE WORKING ON SITE. ANY CONFLICTS ON COORDINATION ISSUES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND/OR ENGINEER FOR MUTUAL RESOLUTION.
2.

PRE-BID SITE VISITS ARE REQUIRED BY ALL BIDDERS TO FAMILIARIZE THEM WITH SITE CONDITIONS. ALL ADDITIONAL DEMOLITION REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
3.

FORTY- EIGHT (48) HOUR NOTICE IS REQUIRED BY THE ENGINEER PRIOR TO SITE INSPECTIONS AND/OR WITNESSING OF WATER AND/OR SEWER TESTING.
4.

ALL EXISTING TREES TO REMAIN SHALL BE BARRICADE PROTECTED FROM DAMAGE BY EQUIPMENT AND/OR PERSONNEL.
5.

THE PROPOSED PROJECT WILL NOT ADVERSELY AFFECT SIGNIFICANT HISTORICAL OR ARCHEOLOGICAL RESOURCES UNDER THE PROVISIONS OF SECTION 267.081, F.S. IF EVIDENCE OF HISTORIC OR ARCHEOLOGICAL RESOURCES IS DISCOVERED OR OBSERVED AT DEVELOPMENT SITES OR DURING DEVELOPMENT ACTIVITIES AFTER FINAL APPROVAL, ALL WORK SHALL CEASE IN THE AREA OF EFFECT AS DETERMINED BY THE DIRECTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER IMMEDIATELY, AND THE DEPARTMENT OF HISTORICAL RESOURCES WITHIN TWO WORKING DAYS. EXAMPLES OF EVIDENCE OF HISTORICAL RESOURCES INCLUDE WHOLE OR FRAGMENTARY STONE TOOLS, SHELL TOOLS, ABORIGINAL OR HISTORIC POTTERY, HISTORIC GLASS, HISTORIC BOTTLES, BONE TOOLS, HISTORIC BUILDING FOUNDATIONS, SHELL MOUNDS, SHELL MADDENS, OR SAND MOUNDS. THE DIRECTOR SHALL ASSESS THE SIGNIFICANCE OF THE FINDS AND MITIGATE ANY ADVERSE EFFECTS AS SOON AS POSSIBLE, BUT NO LATER THAN THREE WORKING DAYS OF NOTIFICATION.

TESTING NOTES

1.

TESTS SHALL BE LOCATED NO MORE THAN FIFTY (50) FEET APART. TESTS SHALL BE PERFORMED ON EACH LIFT, EXCEPT THAT TESTS SHALL NOT BE FURTHER APART THAN ONE (1) FOOT VERTICALLY. FIELD DENSITIES SHALL BE TAKEN OVER ALL ROAD CROSSINGS. FIELD DENSITIES FOR SANITARY LINES SHALL BE STAGGERED TO INCLUDE RESULTS OVER SERVICE LATERALS. THERE SHALL BE A MINIMUM OF ONE (1) TEST SERIES FOR EACH SIX (6) INCHES OF LIFT OVER PIPELINE BETWEEN MANHOLES OR CLEANOUTS. TESTS AROUND STRUCTURES SHALL BE SPIRALED IN SIX (6) INCH LIFTS. TESTS AROUND BOX CULVERTS SHALL BE DONE ON BOTH SIDES EVERY LIFT.
2.

FOR FLEXIBLE PIPE (CORRUGATED STEEL OR ALUMINUM), 95% OF MAXIMUM DENSITY (AASHTO-T99) PER FDOT SUPPLEMENTAL SPECIFICATIONS SUB ARTICLE 125-8.3.2 AS MODIFIED..
3.

THERE SHALL BE NO LESS THAN THREE (3) TESTS WITHIN THE PROPOSED ROAD, TWO (2) TESTS IN THE PARKING AREA AND ONE (1) TEST IN THE DRIVEWAY TO THE DUMPSTER PAD.
4.

APPLIES TO SITE CONCRETE SUCH AS CURBS, GUTTERS, FLUMES, DRIVEWAYS AND SIDEWALKS.
5.

ENGINEER OF RECORD SHALL RECEIVE MATERIAL TESTING REPORTS NO LATER THAN ONE (1) WEEK FROM THE TEST DATE.
6.

TESTING FOR RCP SHALL BEGIN AT THE SPRING LINE OF THE PIPE.
7.

EMBANKMENT, FILL AND BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED IN LIFTS NOT TO EXCEED TWELVE (12) INCHES VERTICALLY. EACH COMPACTED LIFT SHALL PASS THE AFOREMENTIONED TESTING CRITERIA BEFORE PROCEEDING TO THE NEXT VERTICAL LIFT.
8.

DENSITY TESTS SHALL BE PERFORMED AT A MINIMUM FREQUENCY OF ONE (1) TEST PER EVERY ONE HUNDRED (100) SQUARE YARDS OF FILL MATERIAL BEING PLACED, PER VERTICAL LIFT.
9.

IF SUCCESSIVE VERTICAL LIFTS ARE PLACED, THE DENSITY TESTS SHALL BE STAGGERED SO AS TO NOT BE REPEATED IN THE SAME LOCATION.

TESTING SCHEDULE

ITEM	TEST	TEST FREQUENCY
PIPE TRENCH BACKFILL	OPTIMUM MOISTURE/MAXIMUM DENSITY	PER SOIL TYPE
OVER PIPELINES AND AROUND STRUCTURES FROM R.O.W. LINE TO R.O.W. LINE AND IN STRUCTURAL AREAS	98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM BY AASHTO T180-57 (ASTM D1557-70)	(SEE NOTES 1 & 2 IN TESTING NOTES)
STABILIZED SUBGRADE	OPTIMUM MOISTURE/MAXIMUM DENSITY MINIMUM 40 LBR 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70)	PER MATERIAL TYPE PER MATERIAL TYPE (SEE NOTES 1 & IN TESTING NOTES)
BASE	OPTIMUM MOISTURE/MAXIMUM DENSITY MINIMUM 100 LBR 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70) - NO TOLERANCE GRADATION, ATTERBURG LIMITS	PER MATERIAL TYPE PER SOURCE EACH LIFT (SEE NOTE 3 IN TESTING NOTES) PER SOURCE
CONCRETE (SEE NOTE 4 IN TESTING NOTES) (PER AASHTO & ASTM SPECS.)	SLUMP TEST MIN. COMPRESSIVE STRENGTH AT 28 DAYS COMPRESSIVE STRENGTH CYLINDERS AIR CONTENT	ONE (1) PER SET OF CYLINDERS 3,500 PSI ONE (1) SET OF THREE (3) CYLINDERS FOR ONE HUNDRED (100) CUBIC YARDS OR FRACTION THEREOF ONE (1) PER SET OF CYLINDERS
ASPHALTIC CONCRETE (PER FDOT SECTION 320)	AGGREGATE ANALYSIS DESIGN MIX BITUMEN CONTENT GRADATION STABILITY FLOW PROPERTIES OF IN-PLACE MATERIALS (MARSHALL) THICKNESS 95% OF LAB DENSITY	ONE PER DESIGN ONE PER TYPE ONE PER DAY ONE PER DAY ONE PER DAY (SEE NOTE 3 IN TESTING NOTES) (SEE NOTE 3 IN TESTING NOTES)

SEPARATION OF WATER & SEWER LINES

HORIZONTAL SEPARATION OF PIPELINES		ALTERNATE CONSTRUCTION
MINIMUM SEPARATION	BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED WASTEWATER LINE WHEN POSSIBLE	WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AND UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM JOINTS IN THE OTHER PIPELINE.
THREE FEET, AND PREFERABLY TEN FEET	STORM SEWER, STORMWATER FORCE MAIN OR RECLAIMED WATER MAIN	<div><div>1.</div><div>USE OF PRESSURE-RATED PIPE CONFORMING TO THE AMERICAN WATER WORKS ASSOCIATION STANDARDS INCORPORATED INTO RULE 62-555.330, F.A.C., FOR THE OTHER PIPELINE IF IT IS A GRAVITY- OR VACUUM-TYPE PIPELINE;</div></div> <div><div>2.</div><div>USE OF WELDED, FUSED OR OTHERWISE RESTRAINED JOINTS FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE; OR</div></div> <div><div>3.</div><div>USE OF WATERTIGHT CASING PIPE OR CONCRETE ENCASEMENT AT LEAST FOUR (4) INCHES THICK FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE.</div></div>
THREE FEET, AND PREFERABLY TEN FEET	VACUUM-TYPE SANITARY SEWER	
SIX FEET, AND PREFERABLY TEN FEET	GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN OR RECLAIMED WATER MAIN NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.	
TEN FEET	THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY- TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM"	WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THREE FEET HORIZONTALLY FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS BEING LAID LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM THE OTHER PIPELINE;
VERTICAL SEPARATION OF PIPELINES		<div><div>1.</div><div>USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E. HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN; AND</div></div> <div><div>2.</div><div>USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E. HAVING A 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE OTHER PIPELINE IF IT IS NEW AND IS CONVEYING WASTEWATER OR RECLAIMED WATER.</div></div>
MINIMUM SEPARATION DISTANCE FROM THE (OUTSIDE TO OUTSIDE)	NEW OR RELOCATED. UNDERGROUND WATER CROSSING ANY EXISTING OR PROPOSED	
6 INCHES, PREFERABLY 12 INCHES ABOVE	GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER	
12 INCHES BELOW	GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER	
12 INCHES ABOVE OR BELOW	PRESSURE-TYPE SANITARY SEWER, WASTEWATER, STORMWATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER MAIN	

ALTERNATIVELY, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS OR RECLAIMED WATER MAINS, AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER, FORCE MAINS OR RECLAIMED WATER MAINS.

48 HOURS BEFORE DIGGING

CALL TOLL FREE 811 or 1-800-432-4770 SUNSHINE STATE ONE CALL CENTER

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LAKE WORTH STATION
LAKE WORTH BEACH, FLORIDA

GENERAL NOTES

NOT TO BE FILED FOR RECORD UNLESS SIGNED AND DATED WITH THE ENGINEER, SEAL OR PATRONY (FLORIDA), FLORIDA P.E. ADDRESS FOR THE FIRM.

DRAWN: CMP

DESIGNED: CMP

CHECKED: PFR

DATE: 04/06/2022

SCALE: N.T.S.

PROJECT: 137767

SHEET: C1.0

REVISION / SUBMISSION

NO. DATE

REVISED PER SHRT #1

Comment

LANDSCAPE LC #R000270

ENGINEER'S CERT. OF AUTH. #266

**LAKE WORTH BEACH, FL
PALM BEACH COUNTY**

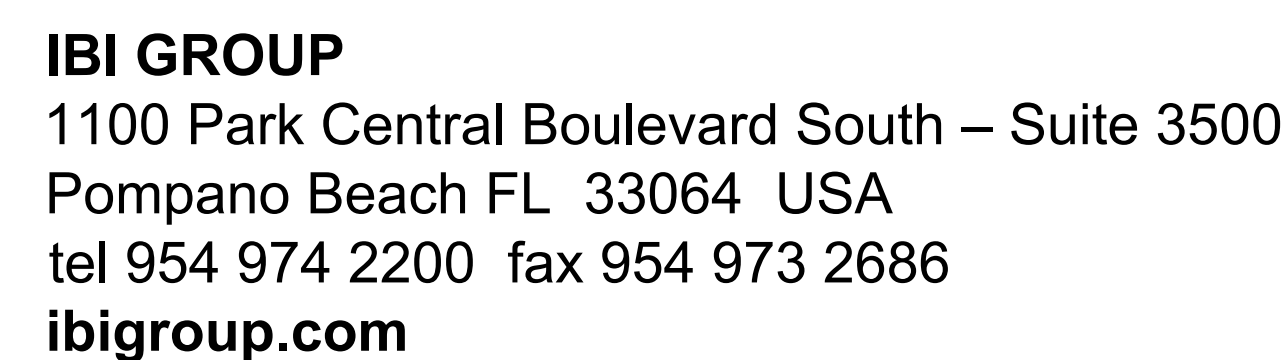
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38-43-44-21-15-274-0030, 38-43-44-21-15-274-0020
SECTION 21 TOWNSHIP 44 RANGE 43

TRAFFIC ENGINEER
SIMMONS & WHITE, INC.
2581 METRO CENTRE BOULEVARD, SUITE 3
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BRYAN G. KELLEY, P.E.
PHONE: (561) 478-7848
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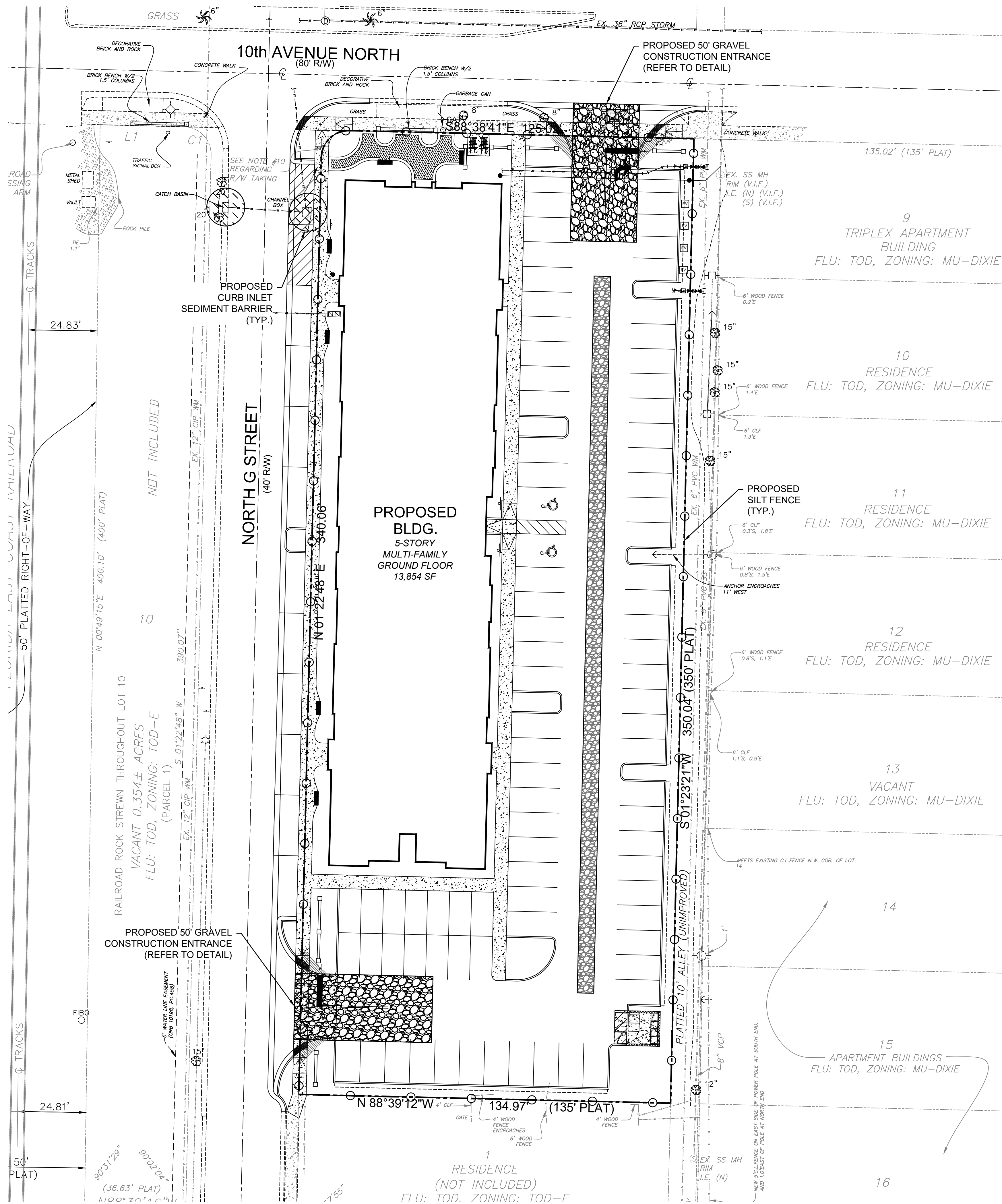
PARCEL 6:
LOT 2, BLOCK 274, THE PALM BEACH FARMS CO. PLAT NO.2 LUCERNE TOWNSITE (NOW KNOWN AS LAKE WORTH), ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 2, PAGE 29, PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.

E301	PHOTOMETRIC SITE PLAN
E701	ELECTRICAL DETAILS
E702	ELECTRICAL DETAILS
E703	ELECTRICAL DETAILS
E801	COMCHECK

[illegible]

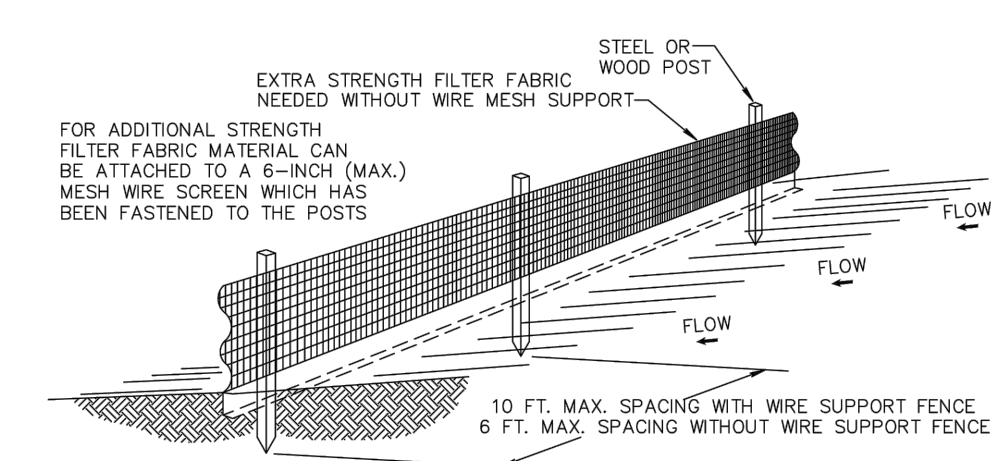
Revision/Submission					
△ No.	06/15/2022 Date	REVISED PER SPRT #1 Comment			PFR By:

NOT TO BE FILED FOR RECORD UNLESS SIGNED AND DATED
WITH THE ORIGINAL SEAL OF PATRICIA F. RAMUDO,
CLERK OF THE COURT.



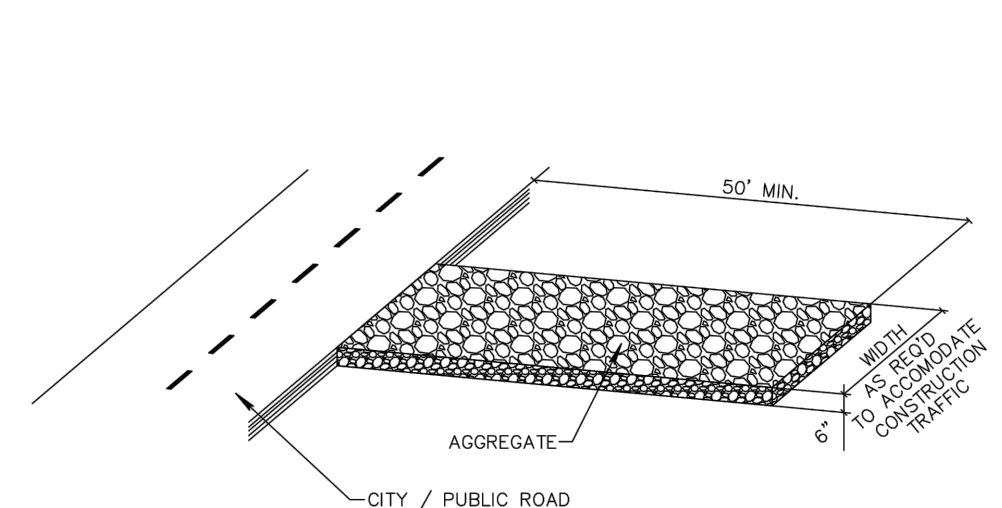
1. THE INTENT OF EROSION CONTROL MEASURES INDICATED GRAPHICALLY ON PLANS IS TO PROVIDE A BARRIER TO CONTAIN SILT AND SEDIMENT ON THE PROJECT SITE. THIS REPRESENTATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE TEST OF EROSION CONTROL EFFECTIVENESS IS NOT TO BE DETERMINED BY ADHERENCE TO THE REPRESENT SET FORTH ON THE DRAWINGS AND SPECIFICATIONS, BUT BY MEETING THE REGULATIONS SET FORTH BY THE AUTHORITY HAVING JURISDICTION OVER WATER QUALITY CONTROL AND OTHER SEDIMENTATION RESTRICTION REQUIREMENTS IN THE REGION.
2. APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING, GRADING, EXCAVATION, FILLING, OR OTHER LAND DISTURBANCE ACTIVITIES, EXCEPT THOSE OPERATIONS NEEDED TO INSTALL SUCH MEASURES.
3. INSPECTION OF ALL EROSION CONTROL MEASURES SHALL BE CONDUCTED WEEKLY, OR AFTER EACH RAINFALL EVENT. REPAIR AND/OR REPLACEMENT OF SUCH MEASURES SHALL BE MADE PROMPTLY, AS NEEDED.
4. KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS.
5. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED IF DEEMED NECESSARY BY ONSITE INSPECTION.
6. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES SHALL RESULT IN CONSTRUCTION BEING HALTED.
7. DRAINAGE INLETS SHALL BE PROTECTED BY FILTER AND GRADED ROCK AS PER INLET PROTECTION DETAIL.
8. ANY ACCESS ROUTES TO SITE SHALL BE BASED WITH CRUSHED STONE, WHERE PRACTICAL.
9. EROSION CONTROL MEASURES ARE TO BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
10. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED.
11. ALL WORK IS TO BE IN COMPLIANCE WITH THE RULES AND REGULATIONS SET FORTH BY THE STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE CITY OF DELRAY BEACH.
12. DISCHARGE FROM DEWATERING OPERATIONS SHALL BE RETAINED ONSITE IN A CONTAINMENT AREA.

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT
EROSION CONTROL NOTES
DETAIL
25



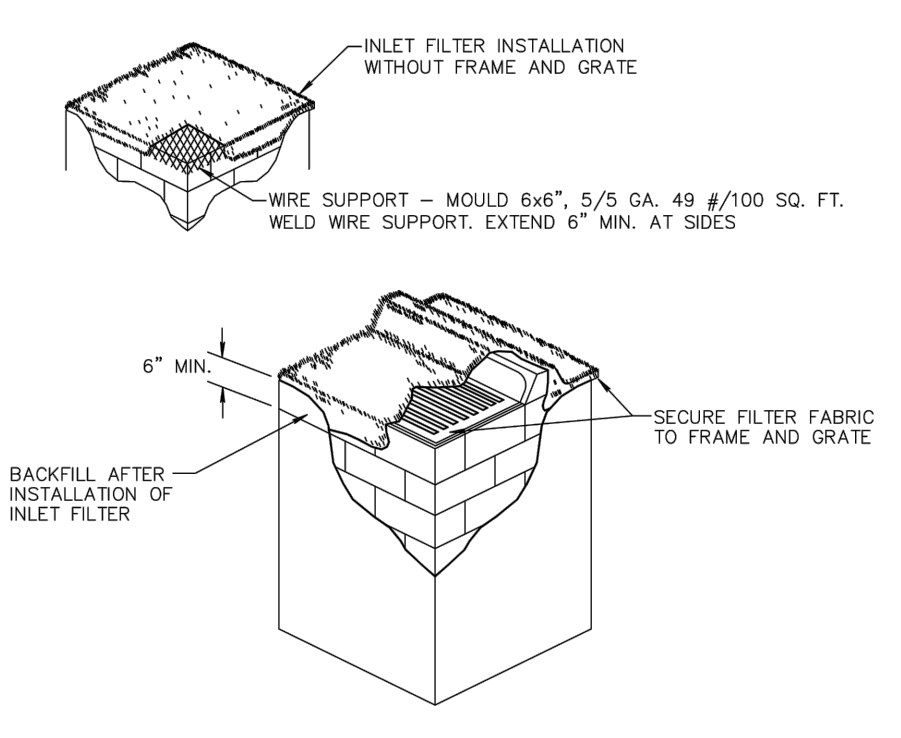
- NOTES:
1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (90 CM).
 2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
 3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET (3 M) APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES (30 CM). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET (1.8 M).
 4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES (10 CM) WIDE AND 4 INCHES (10 CM) DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
 5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25 MM) LONG, OR WIRE, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (5 CM) AND SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
 6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 4 INCHES (10 CM) OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
 7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
 8. ALL PROJECTS REQUIRE SUBMITTAL OF POLLUTION PREVENTION PLAN (PPP).
 9. ALL PROJECTS 1 AC. OR MORE MUST SUBMIT NOTICE OF INTENT (NOI) TO FDEP.

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT
SILT FENCE INSTALLATION DETAIL
27



NOTE:
A CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AND CONTAIN AN AGGREGATE LAYER (FOOT AGGREGATE, NO. 1), AT LEAST 6-INCHES THICK. IT MUST EXTEND TO THE WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA.
CITY / PUBLIC ROAD TO BE KEPT FREE OF DEBRIS AND AGGREGATE.

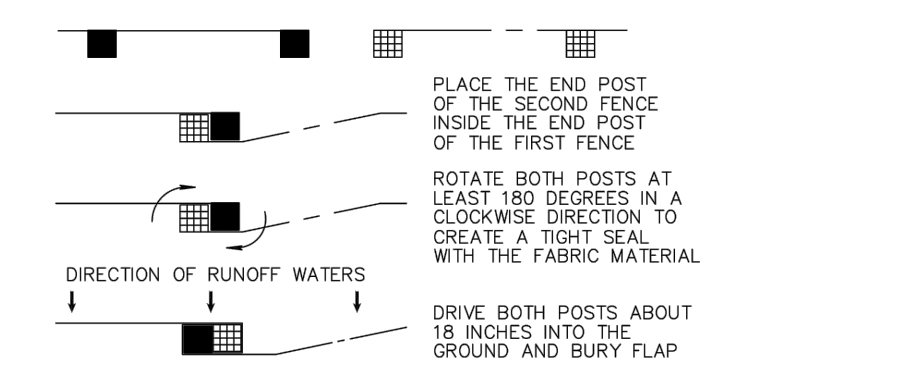
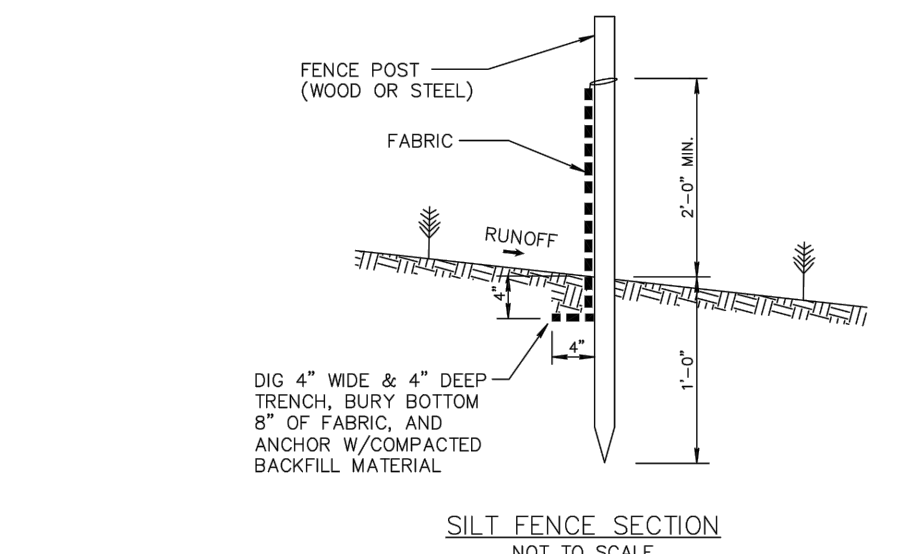
CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT
STABILIZED CONSTRUCTION
ENTRANCE DETAIL
29



NOTES:
1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
2. CONTRACTOR TO REMOVE FABRIC JUST PRIOR TO PAVING.

A SEDIMENT TRAP WILL BE EXCAVATED BEHIND THE CURB AT THE INLET. THE BASIN SHALL BE AT LEAST 12 TO 14 INCHES IN DEPTH, APPROXIMATELY 36 INCHES IN WIDTH, AND APPROXIMATELY 7 TO 10 FEET IN LENGTH PARALLEL TO THE CURB.
STORM WATER WILL REACH THE SEDIMENT TRAP VIA CURB CUTS ADJACENT TO EACH SIDE OF THE INLET STRUCTURE. THESE OPENINGS SHALL BE AT LEAST 12 INCHES IN LENGTH. STORM WATER MAY ALSO REACH THE BASIN VIA OVERLAND FLOW LAND AREA BEHIND THE CURB. THE CURB CUTS SHALL BE REPAIRED WHEN THE SEDIMENT TRAP IS REMOVED.

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT
INLET FILTER DETAIL
26



CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT
SILT FENCE INSTALLATION DETAIL
28

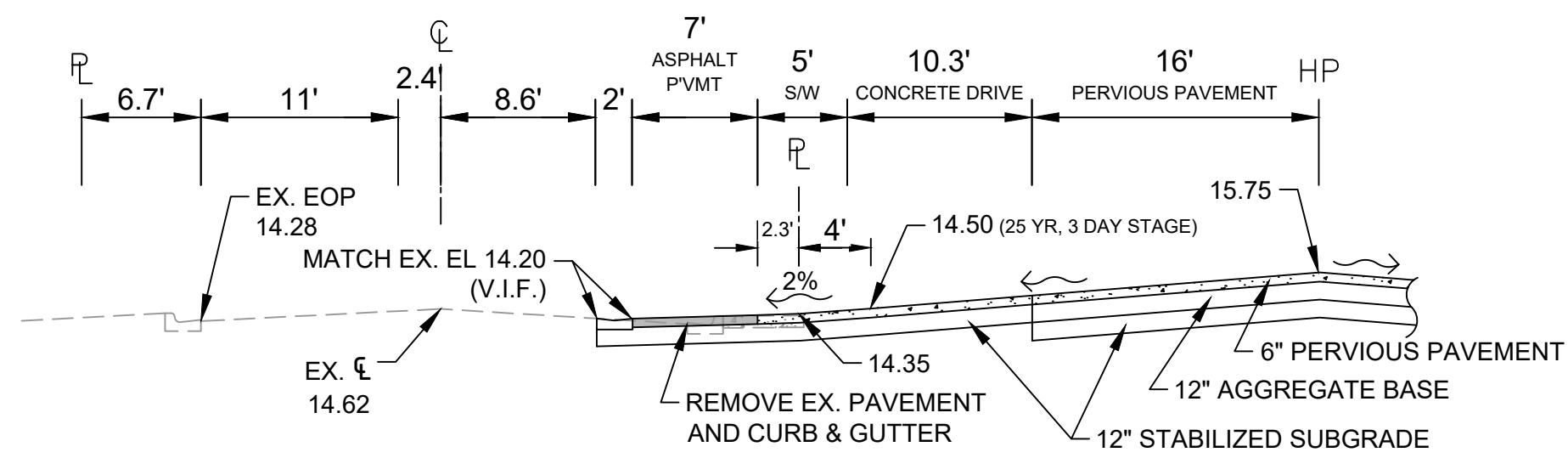
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SUNSHINE STATE ONE CALL CENTER

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IBI GROUP (FLORIDA) INC 1100 Park Central Boulevard South - Suite 3500 Pompano Beach FL 33064 USA tel 954 974 2200 fax 954 973 2686 ibigroup.com		LAKE WORTH STATION LAKE WORTH BEACH, FLORIDA EROSION CONTROL PLAN	
NOT FOR CONSTRUCTION		NOT FOR CONSTRUCTION	
DRAWN: CMP		SCALE: 1" = 20'	
DESIGNED: PFR		PROJECT: 137767	
CHECKED: PFR		SHEET: C5.0	
DATE: 06/08/2022			

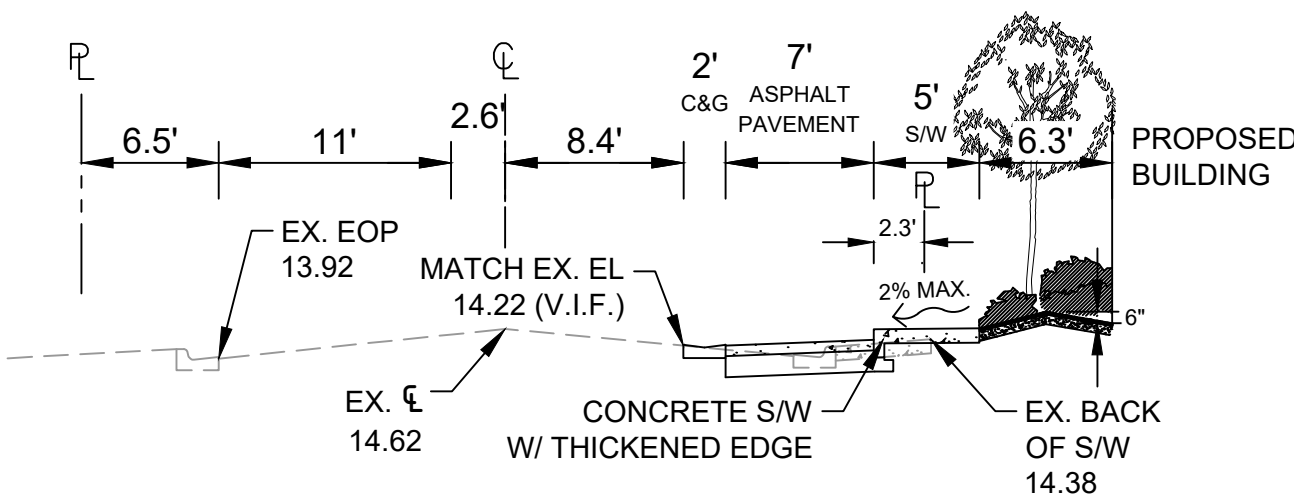
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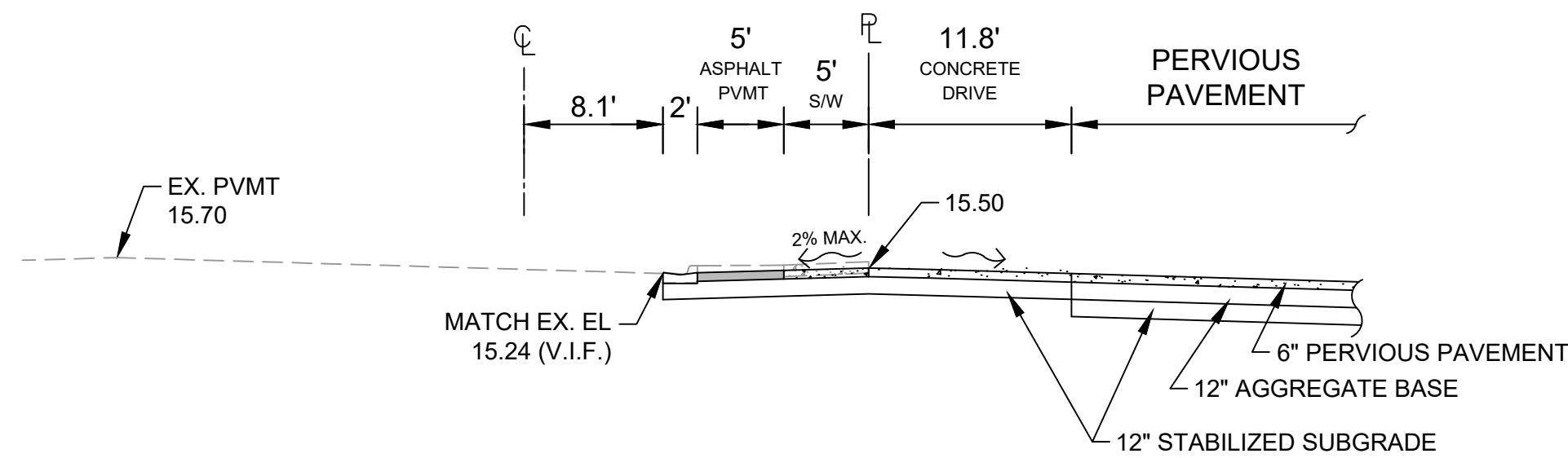


A TYPICAL SECTION
WEST SECTION

NOTE: CONCRETE SIDEWALK AND DRIVE WILL BE 6" THICK IN VEHICULAR ACCESS DRIVE.

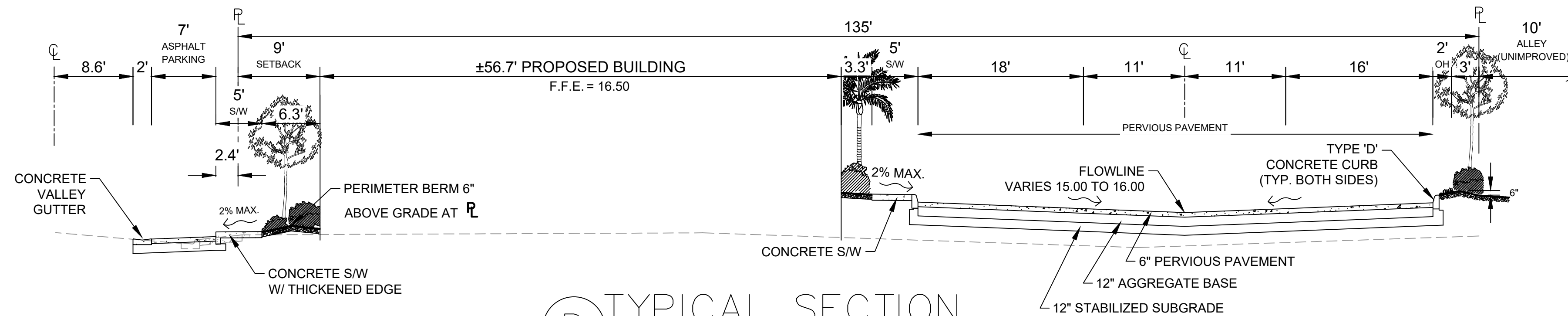


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WEST SECTION

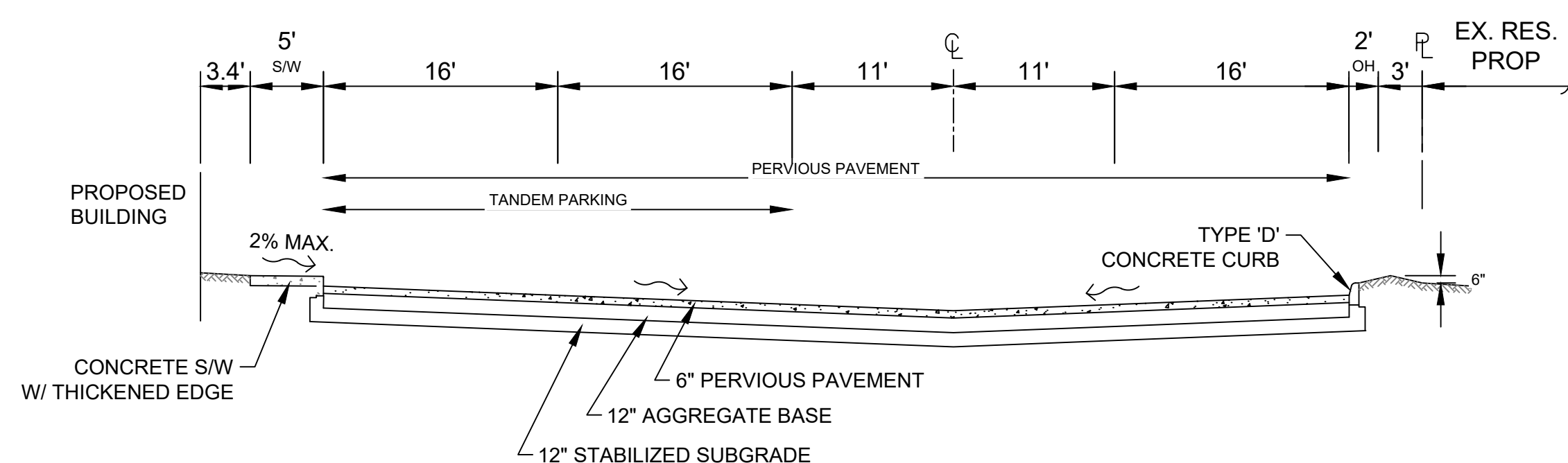


C TYPICAL SECTION
NORTH SECTION

NOTE: CONCRETE SIDEWALK AND DRIVE WILL BE 6" THICK IN VEHICULAR ACCESS DRIVE.

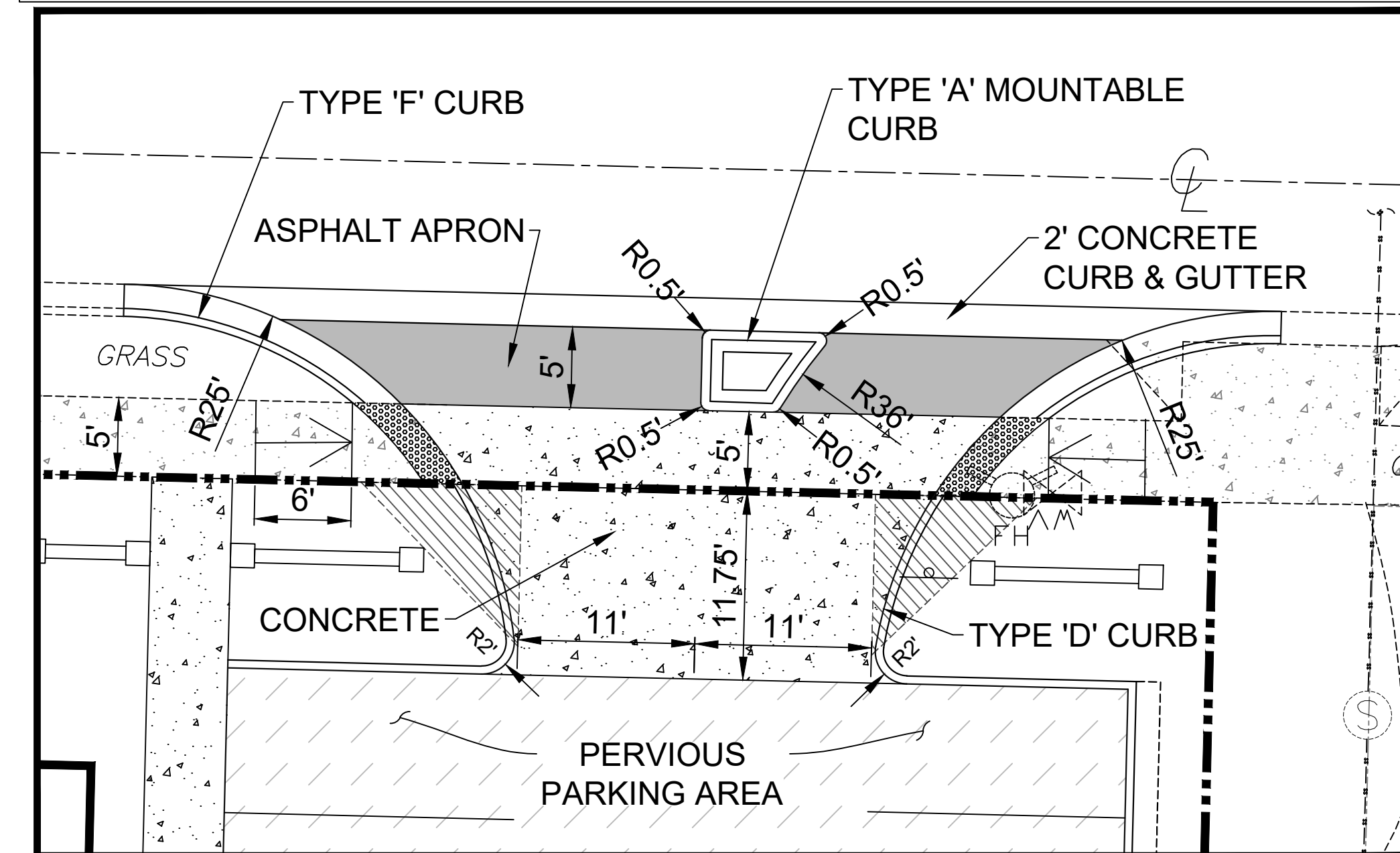
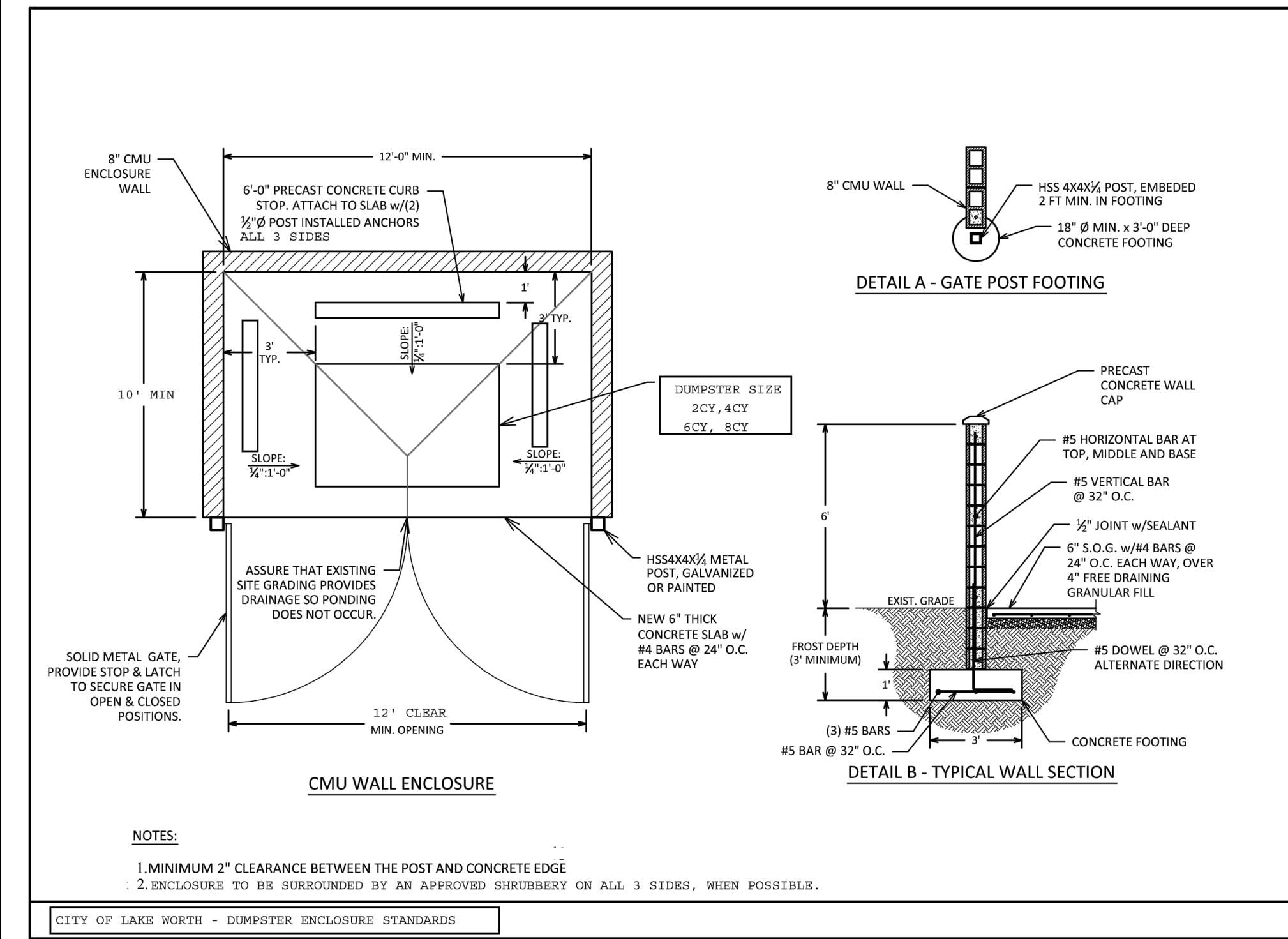


D TYPICAL SECTION
EAST-WEST CROSS-SECTION

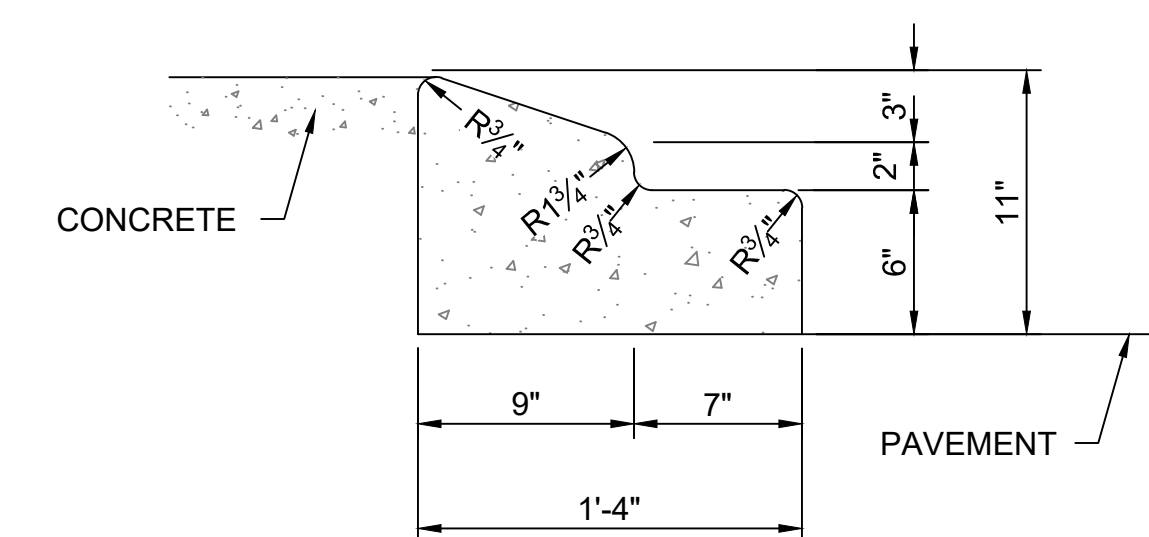


E TYPICAL SECTION
SOUTH SECTION

CMU DUMPSTER ENCLOSURE



10TH AVENUE N. ENTRANCE DETAIL



NOTE:

1. CONSTRUCTION JOINTS SHALL BE PLACED AT EQUAL SPACES (10' MAX.) BETWEEN NORMAL EXPANSION JOINTS. CONSTRUCTION JOINTS SHALL BE SAW CUT WITHIN 24 HRS. OF PLACEMENT.
2. FOR CURB & GUTTER CONSTRUCTED ADJACENT TO CONCRETE PAVEMENT, 1/2" EXPANSION JOINT MATERIALS SHALL BE PLACED BETWEEN THE EDGE OF GUTTER AND EDGE OF PAVEMENT.

TYPE 'A' CURB DETAIL
N.T.S.

Revision / Submission		Revised Per SRT #1	Date	Comment
No.		No.	Date	
IBI GROUP (FLORIDA) INC		1100 Park Central Boulevard South – Suite 3500		
Pompano Beach FL 33064 USA		tel 954 974 2200 fax 954 973 2686		
ibigroup.com		LANDSCAPE LC #R000270		
ENGINEER'S CERT. OF AUTH. #266		NOT FOR CONSTRUCTION		
DRAWN: CMP		SCALE: N.T.S.		SHEET: C3.1
DESIGNED: CMP		PROJECT: 137767		
CHECKED: PFR		DATE: 04/06/2022		

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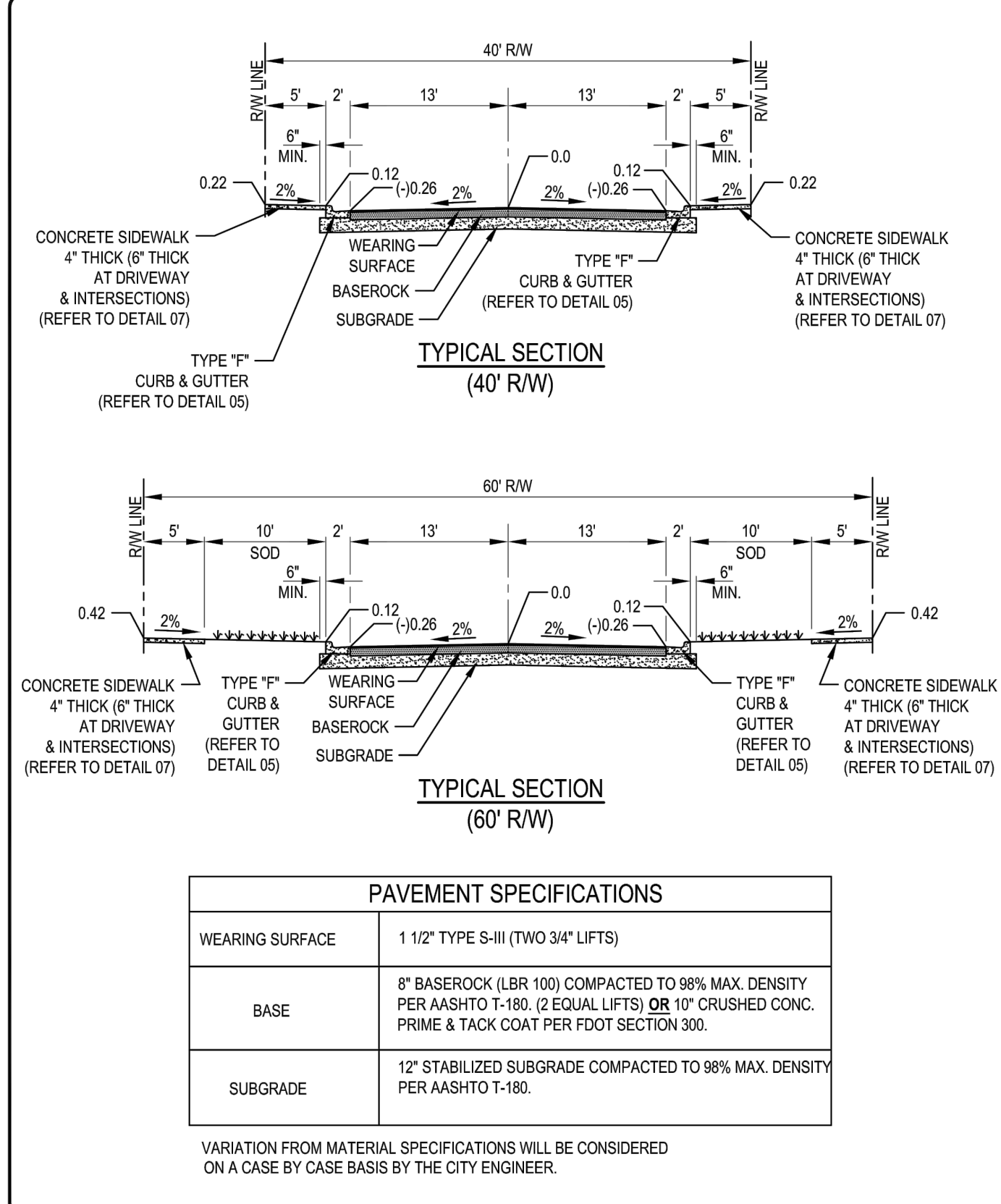
- GENERAL NOTES**
- EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES AND "SUNSHINE STATE ONE CALL OF FLORIDA, INC." TO LOCATE ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES DURING CONSTRUCTION AND RESETTLEMENT UTILITIES TO NEW GRADE AND SLOPE WITHIN THE LIMITS OF CONSTRUCTION.
 - SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE PROVISIONS OF THE FLORIDA TRENCH SAFETY ACT, THE FLORIDA UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT, AND ALL APPLICABLE O.S.H.A. REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY PRECAUTIONS WHEN WORKING IN THE VICINITY OF OVERHEAD ELECTRIC LINES.
 - MAINTENANCE OF TRAFFIC. THE CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC (MOT) PLANS, PREPARED BY A WORK SITE TRAFFIC SUPERVISOR AS CERTIFIED BY THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION, PRIOR TO COMMENCING CONSTRUCTION WITHIN CITY OF LAKE WORTH RIGHT-OF-WAY.
 - ACCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE VEHICULAR AND PEDESTRIAN ACCESS AT ALL TIMES.
 - WARRANTY. ALL WORK, MATERIALS, OR EQUIPMENT SHALL BE WARRANTED FOR A MINIMUM OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE CITY OF LAKE WORTH AGAINST DEFECTIVE MATERIALS AND/OR WORKMANSHIP. ALL WORK FOUND TO BE DEFECTIVE WILL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE CITY OF LAKE WORTH.
 - SHOP DRAWINGS. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF SEVEN (7) COPIES (OR MORE IF REQUIRED) OF SHOP DRAWINGS, PRODUCT DATA, MATERIAL SPECIFICATIONS AND OTHER INFORMATION REGARDING CONSTRUCTION MATERIALS AND STRUCTURES AS REQUESTED BY THE ENGINEER OF RECORD OR THE CITY OF LAKE WORTH. SHOP DRAWINGS MUST BE NEWLY PREPARED INFORMATION, DRAWN TO ACCURATE SCALE. STANDARD INFORMATION PREPARED WITHOUT SPECIFIC REFERENCE TO THE PROJECT WILL BE RETURNED TO THE CONTRACTOR WITHOUT REVIEW. SHOP DRAWINGS SHALL BE SUBJECT TO THE FOLLOWING:
 - BY SUBMITTAL OF ANY SHOP DRAWING OR CATALOG DATA, BEARING AN APPROVAL STAMP, THE CONTRACTOR REPRESENTS THAT IT HAS DETERMINED AND VERIFIED ALL FIELD MEASUREMENTS, FIELD CONSTRUCTION CRITERIA, MATERIALS, DIMENSIONS, CATALOG NUMBERS AND SIMILAR DATA, OR WILL DO SO, AND THAT IT 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 OF RECORD OR THE CITY OF LAKE WORTH SHALL NOT AUTHORIZE ANY DEVIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
 - ANY PROPOSED SUBSTITUTE OR EQUAL TO THAT SHOWN ON THE CONTRACT DOCUMENTS SHALL BE ACCOMPANIED BY CALCULATIONS SUBSTANTIATING EQUIVALENCY. SHOP DRAWINGS WITH SUBSTITUTE MATERIALS NOT ACCOMPANIED BY CALCULATIONS WILL BE RETURNED WITHOUT REVIEW.
 - THE CONTRACTOR SHALL CONFIRM COMPATIBILITY OF PIPE SLOPES AND INVERTS DURING THE SHOP DRAWING AND MATERIALS ORDERING PHASE OF THE PROJECT AND ADVISE THE ENGINEER OF RECORD IN WRITING OF ANY DISCREPANCIES.
 - INDIVIDUAL SHOP DRAWINGS FOR PRECAST STRUCTURES ARE REQUIRED. CATALOG LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.
 - FIELD REVIEWS. THE CONTRACTOR SHALL PROVIDE NOTIFICATION, 48 HOURS (MIN.), PRIOR TO ANY REQUIRED FIELD REVIEWS OR INSPECTIONS AND SHALL SUPPLY ALL NECESSARY EQUIPMENT, LAMPS AND MATERIALS FOR INSPECTION AND/OR TEST. ALL WORK SHALL BE OPEN AND SUBJECT TO REVIEW AND/OR INSPECTION BY AUTHORIZED PERSONNEL OF THE CITY OF LAKE WORTH AND THE ENGINEER OF RECORD.
 - DENSITY TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY TESTING TO ENSURE THAT THE PROPER COMPACTION HAS BEEN ACHIEVED FOR ALL SUBGRADE, BASE MATERIAL, PIPE BASE MATERIAL, BACKFILL, AND ALL OTHER AREAS WHERE COMPACTION REQUIREMENTS ARE SPECIFIED. ALL TEST RESULTS SHALL BE SIGNED & SEALED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER AND COPIES SHALL BE PROVIDED TO THE ENGINEER OF RECORD AND THE CITY OF LAKE WORTH.
 - PERMITS. THE CONTRACTOR SHALL NOT COMMENCE CONSTRUCTION PRIOR TO RECEIPT OF ALL APPLICABLE PERMITS AND APPROVALS INCLUDING AN APPROVED MAINTENANCE OF TRAFFIC PLAN. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE REQUIREMENTS OF THE PERMITS AND AGENCY APPROVALS.
 - EROSION CONTROL. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH FDOT INDICES 102, 103 AND 106, THE FDEP NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT (IF APPLICABLE), AND THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). FILTER FABRIC, HAY BALES, OR ROCK BAGS SHALL BE INSTALLED IN EACH INLET THROUGHOUT THE CONSTRUCTION PERIOD. A SOD TRACKING PREVENTION DEVICE (STPD) SHALL BE INSTALLED AT ALL UNSTABILIZED CONSTRUCTION ACCESS POINTS. PER FDOT INDEX NO. 106.
 - STORM DRAINAGE. ALL STORM DRAINAGE PIPE JOINTS SHALL BE WRAPPED IN FILTER FABRIC PER FDOT STANDARD INDEX NO. 280. ALL DRAINAGE STRUCTURES SHALL CONFORM TO THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. ALL GRATES SHALL BE SECURED TO THE STRUCTURES WITH AN EYEBOLT AND CHAIN. ALL STORM DRAINAGE SHALL BE FREE OF SLT AND SEDIMENT AT THE TIME OF FINAL ACCEPTANCE BY THE CITY OF LAKE WORTH.
 - DEWATERING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ANY DEWATERING PERMITS AND/OR APPROVALS NECESSARY FOR CONSTRUCTION. NO WATER FROM DEWATERING MEASURES SHALL BE DISCHARGED OFF-SITE. ALL DISCHARGE SHALL BE CONTAINED IN ON-SITE SEDIMENT BASINS.
 - SIDEWALKS. ALL SIDEWALKS SHALL BE CONSTRUCTED TO MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CHAPTER 11 - FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION. ALL CURB RAMP SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 304 AND THE REQUIREMENTS OF THE FLORIDA BUILDING CODE. ALL WALKWAYS CROSSING VEHICULAR AREAS SHALL HAVE A DETECTABLE WARNING SURFACE (TRUNCATED CONES) IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 304 AND THE FLORIDA BUILDING CODE, CHAPTER 11 - ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION. ALL SIDEWALKS SHALL BE BROOM FINISHED WITH AN EVEN, DUSTLESS SURFACE AND SHALL BE FREE OF CRACKS AT THE TIME OF FINAL ACCEPTANCE BY THE CITY OF LAKE WORTH.
 - PAVEMENT. WHERE FULL-DEPTH PAVEMENT REPLACEMENT IS SPECIFIED, EXISTING BASECOURSE MAY NOT BE RE-USED, HOWEVER IT MAY BE UTILIZED AS SUBGRADE STABILIZATION MATERIAL. ALL SUBGRADE SHALL BE FREE OF MUCK, ROOTS, UNDERBRUSH, VEGETATIVE MATTER, GARBAGE, TRASH, OR ANY OTHER UNSUITABLE MATERIALS. BASECOURSE AND ASPHALT SHALL BE PLACED IN MULTIPLE LIFTS AND SHALL BE PLACED IN ACCORDANCE WITH THE APPLICABLE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. FINAL LIFT OF ASPHALT SHALL PROVIDE A UNIFORM FINISH AND SHALL BE PLACED TO CORRECT MINOR IMPERFECTIONS IN THE FIRST LIFT AND TO PROVIDE POSITIVE DRAINAGE FOR THE ROADWAY.
 - SIGNING AND PAVEMENT MARKING. ALL PAVEMENT MARKINGS WITHIN CITY OF LAKE WORTH RIGHT-OF-WAY SHALL BE THERMOPLASTIC. THERMOPLASTIC SHALL NOT BE INSTALLED ON PAVEMENT UNTIL A MINIMUM OF FIVE CALENDAR DAYS AFTER THE FINAL LIFT OF ASPHALT HAS BEEN COMPLETED. BLUE/WHITE REFLECTIVE PAVEMENT MARKERS (PRM) SHALL BE INSTALLED TO INDICATE THE LOCATION OF ALL FIRE HYDRANTS.



CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

GENERAL NOTES

01
REVISED SHEET

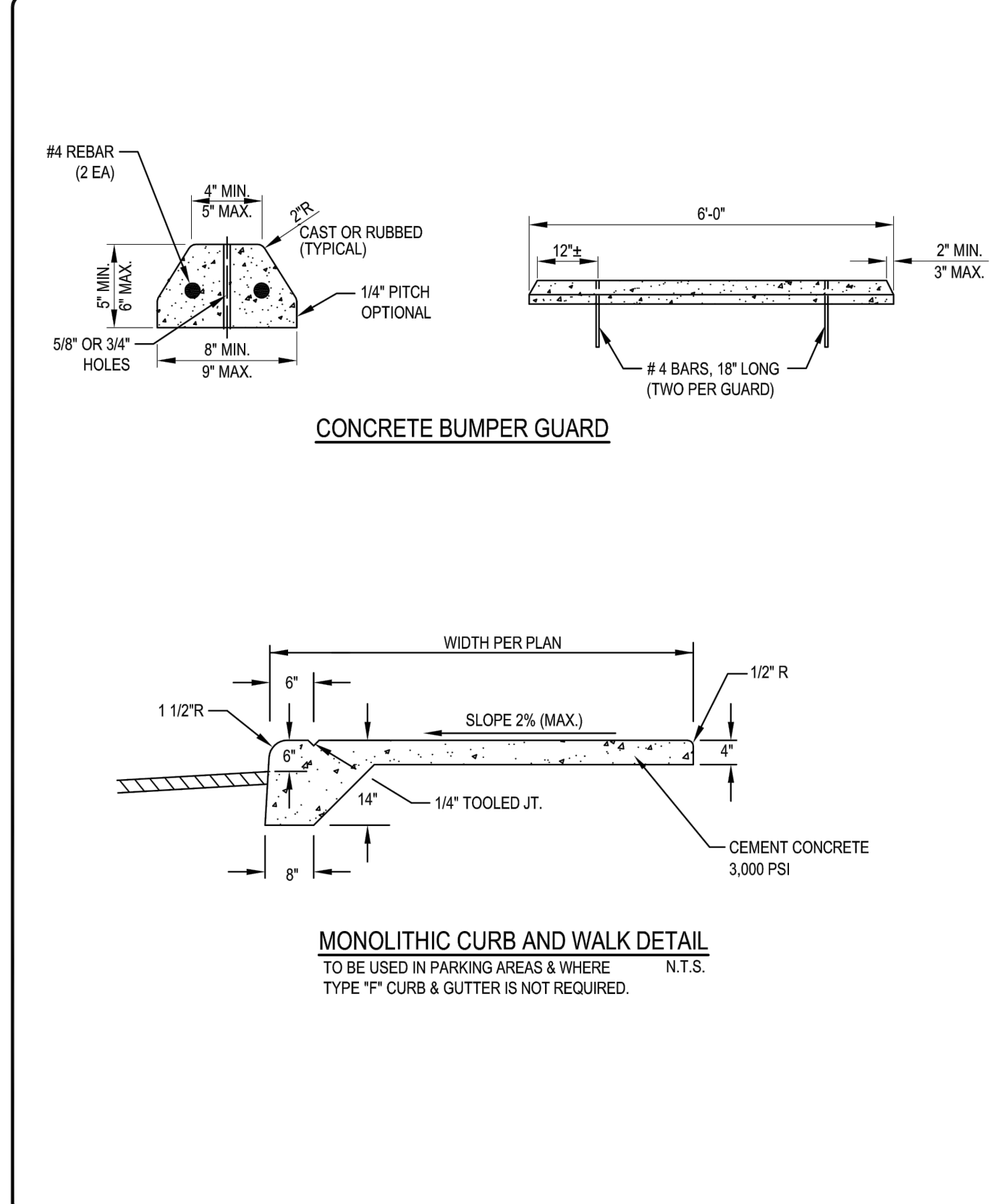




CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

TYPICAL RIGHT-OF-WAY SECTIONS

02
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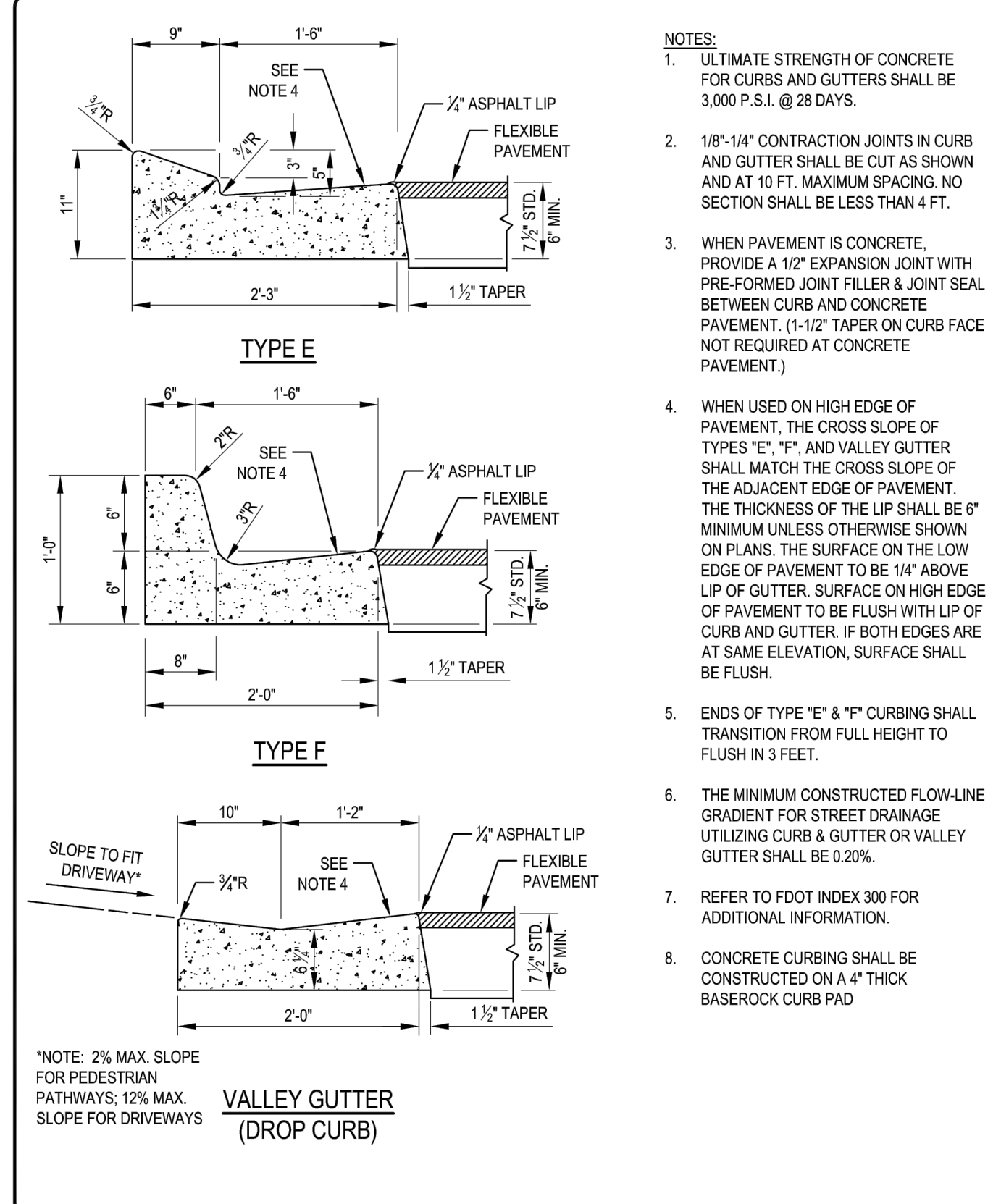




CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

CONCRETE BUMPER GUARD AND MONOLITHIC CURB AND WALK

08
REVISED SHEET

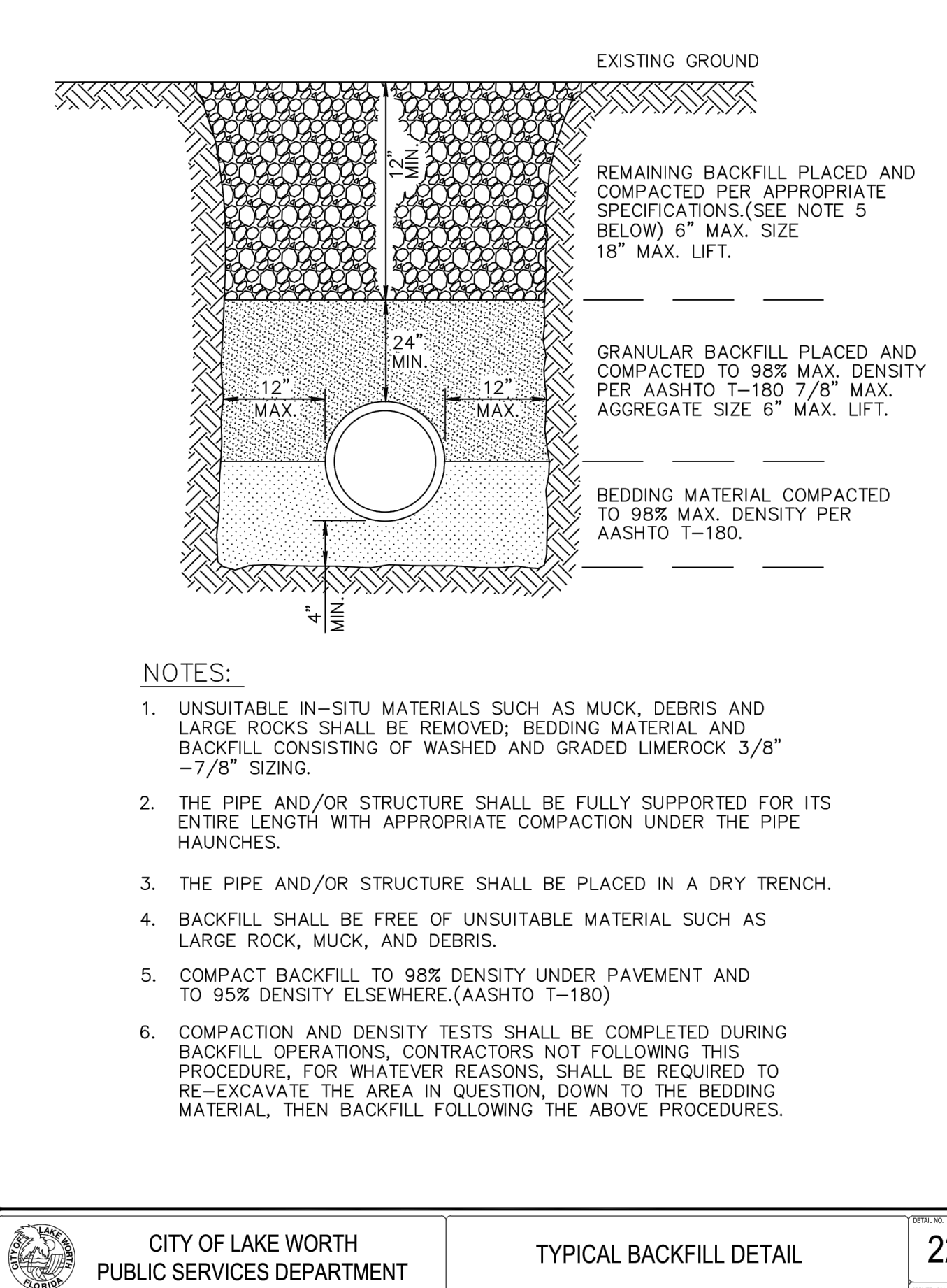




CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

CONCRETE CURB AND GUTTER

05
REVISED SHEET

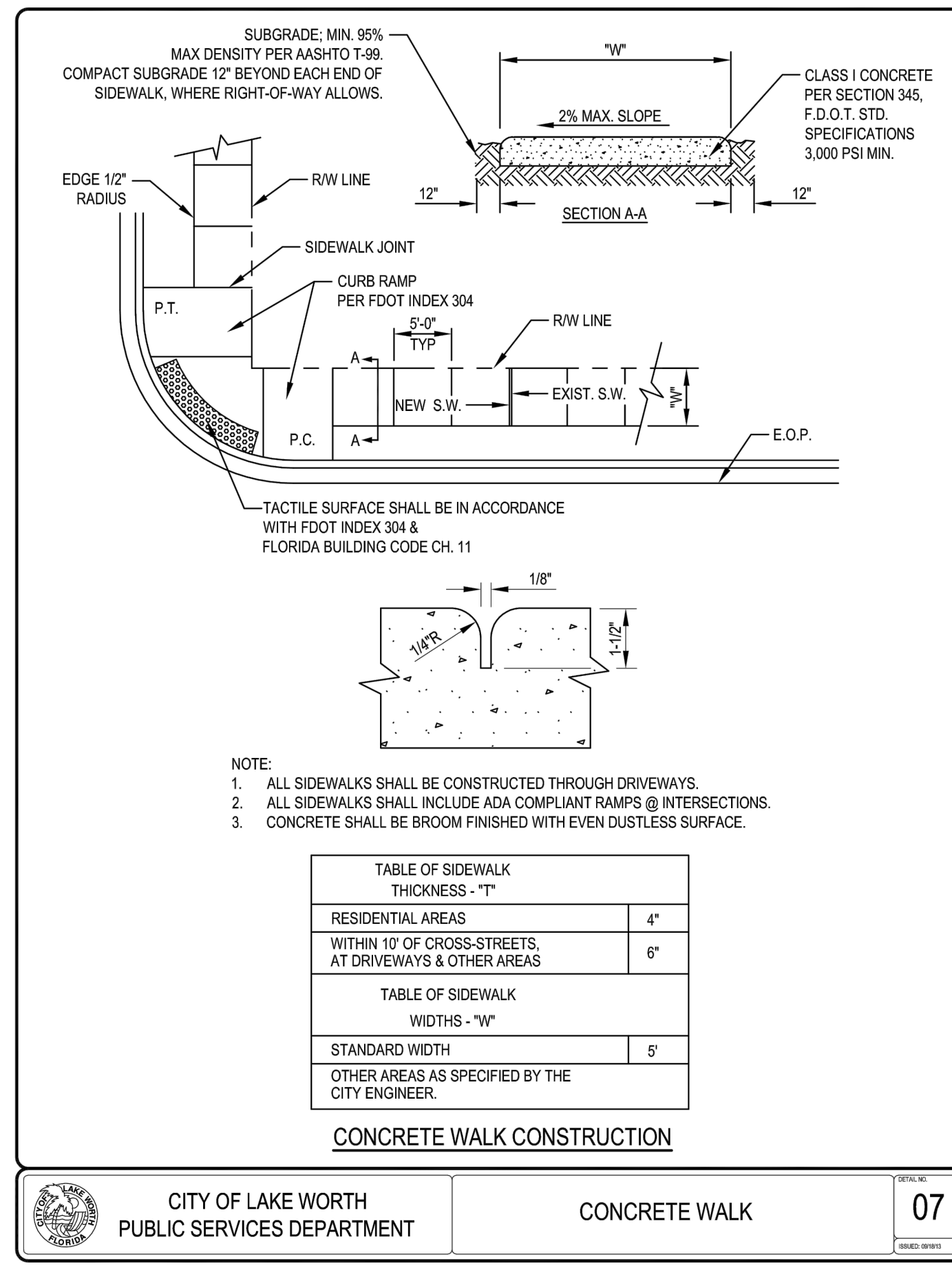




CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

TYPICAL BACKFILL DETAIL

22
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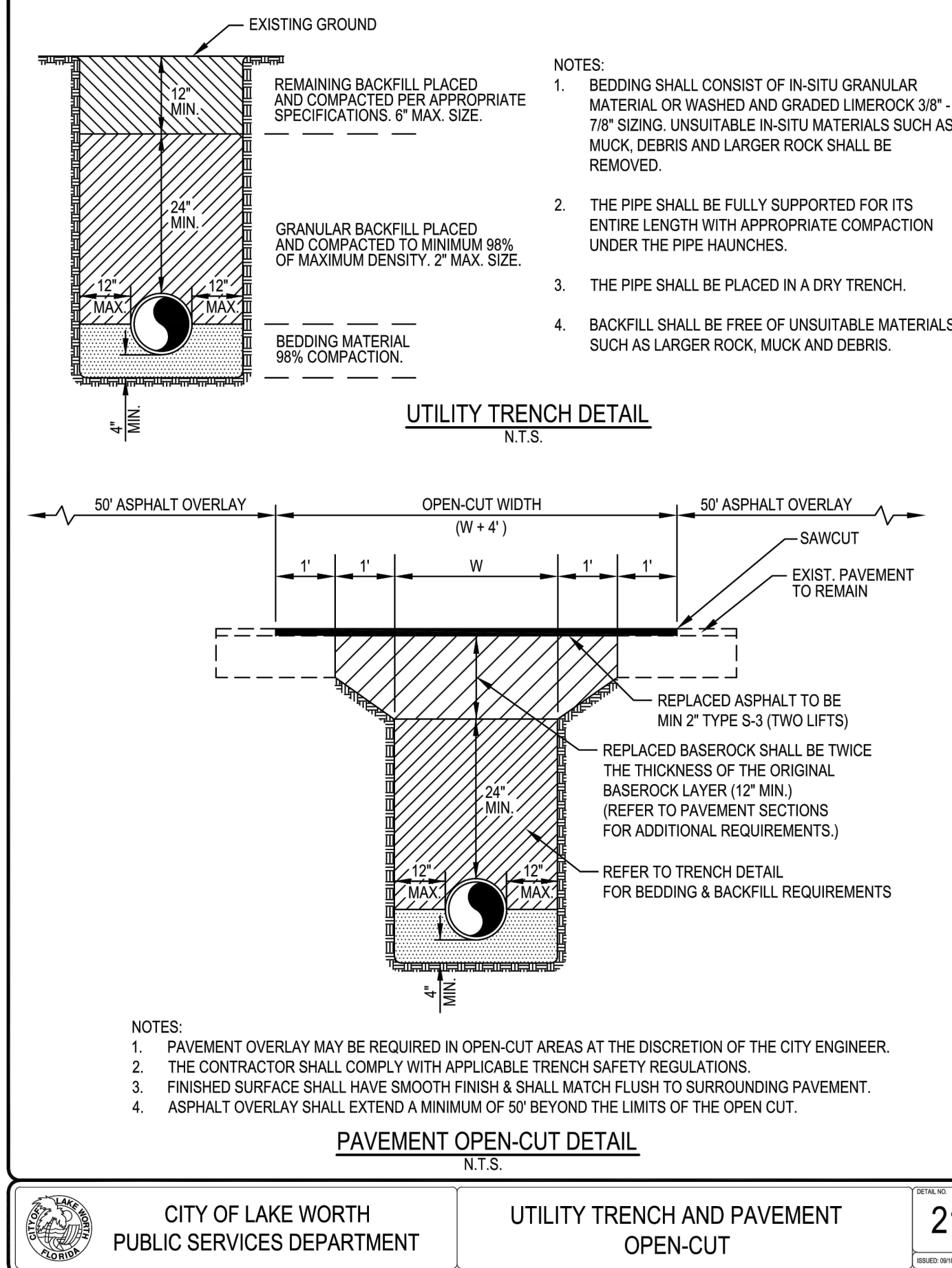





CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

CONCRETE WALK

07
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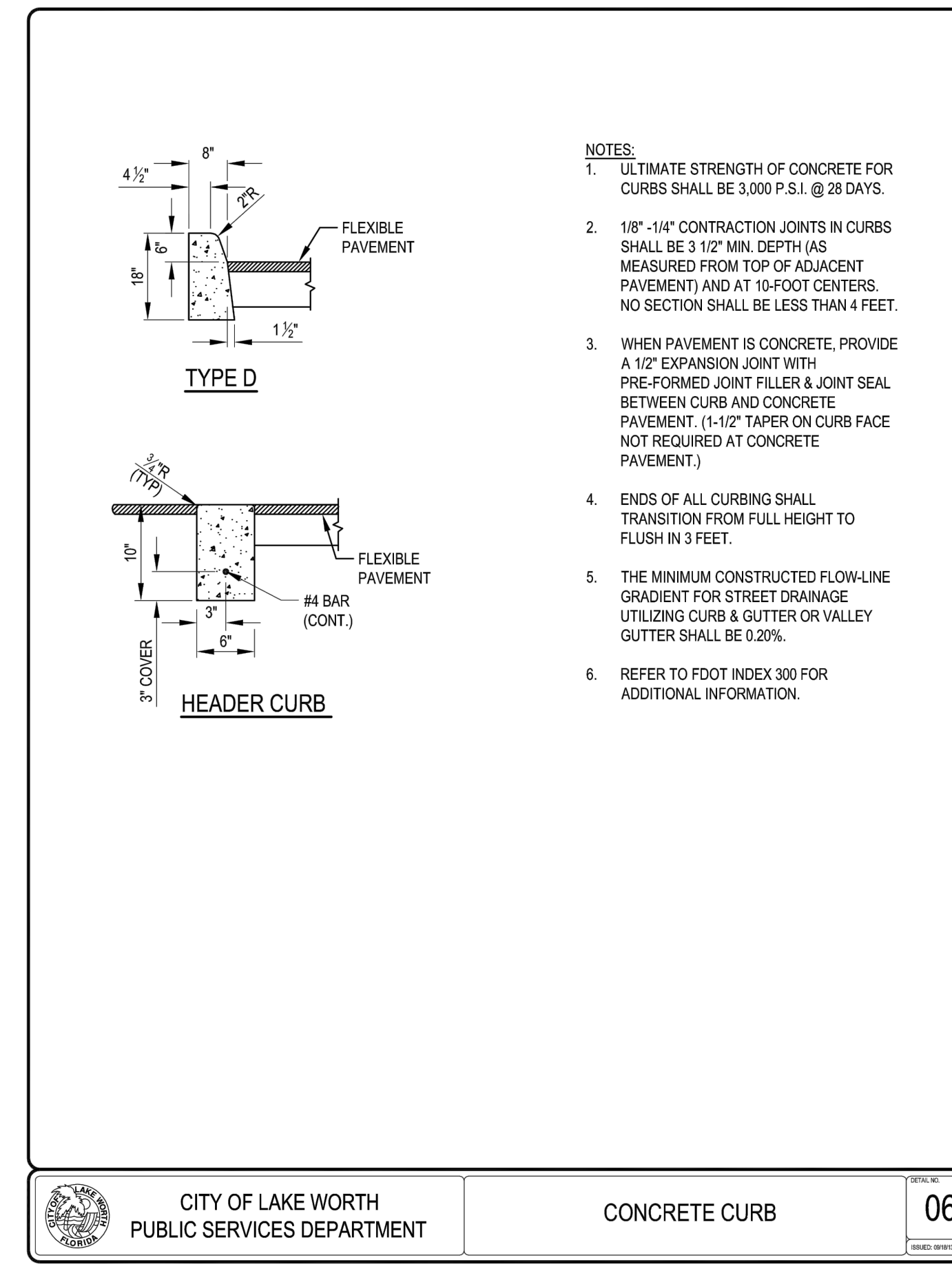




CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

UTILITY TRENCH AND PAVEMENT OPEN-CUT

21
REVISED SHEET





CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

CONCRETE CURB

06
REVISED SHEET

IBI GROUP (FLORIDA) INC
1100 Park Central Boulevard South - Suite 3500
Pompano Beach FL 33064 USA
tel 954-974-2200 fax 954-973-2886
ibigroup.com

LAKE WORTH STATION
LAKE WORTH BEACH, FLORIDA

NOT FOR CONSTRUCTION

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DESIGNED: CMP	PROJECT: 137767
CHECKED: PFR	SHEET: C3.3
DATE: 04/06/2022	

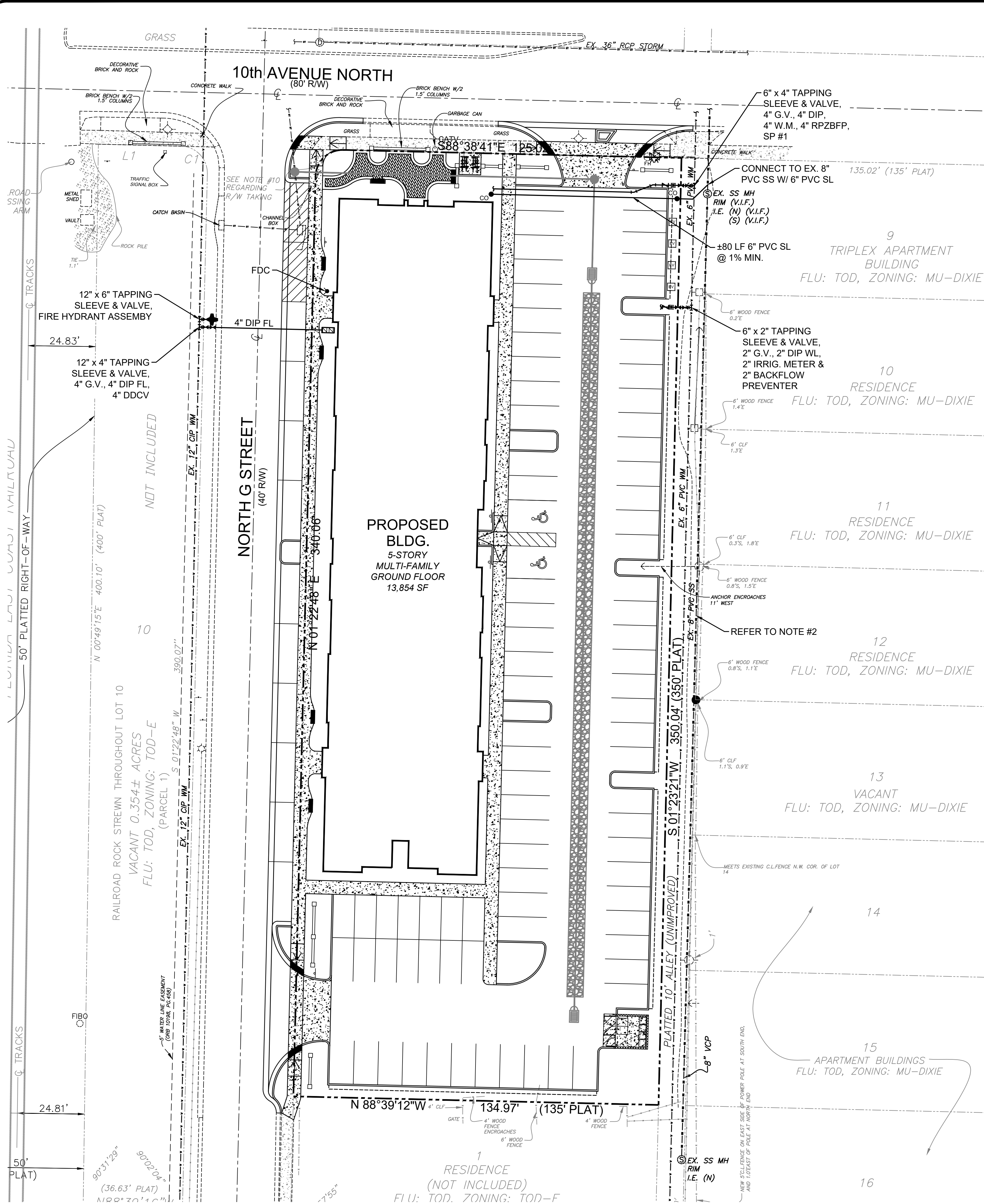
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LANDSCAPE LIC #8000270

REVISIONS

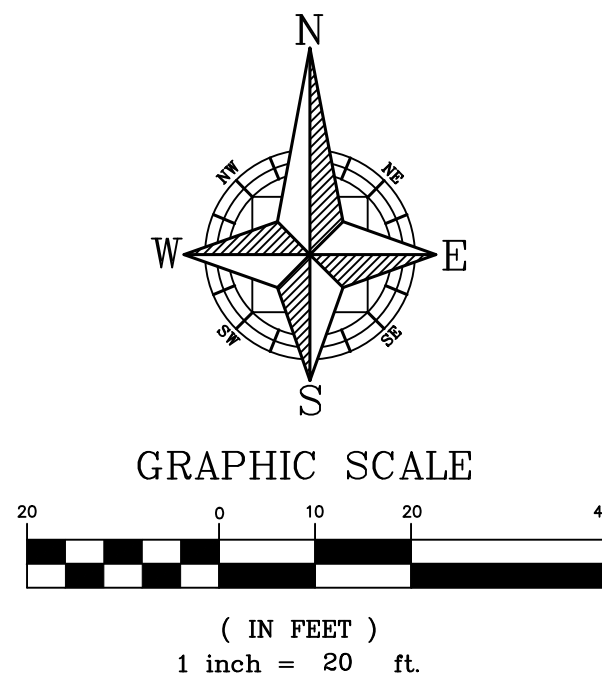
NO. DATE REVISIONS BY

1 08/15/2021 REVISED PER SHRT #1 PFR



LEGEND

- SANITARY SEWER LATERAL W/ MANHOLE
- 22" BEND FITTING
- 45" BEND FITTING
- TEE FITTING
- 90" BEND FITTING
- REDUCER
- GATE VALVE
- WATER METER
- BACKFLOW PREVENTER
- DOUBLE DETECTOR CHECK VALVE
- FIRE DEPARTMENT CONNECTION
- FIRE HYDRANT ASSEMBLY



LOCATION MAP

(N.T.S.)

NOTES:

- ALL DIP WATER MAINS TO BE COLOR CODED OR MARKED BLUE ACCORDING TO FLORIDA ADMINISTRATIVE CODE, RULE 62-555.320(21)(b)3.
- FOR EX. 8" PVC SANITARY SEWER, CONTRACTOR SHALL LINE THE INTERIOR OF THE PIPE WITH A CURED IN PLACE LINER, FROM MANHOLE TO MANHOLE, ±355 LF.

SEPARATION OF WATER & SEWER LINES

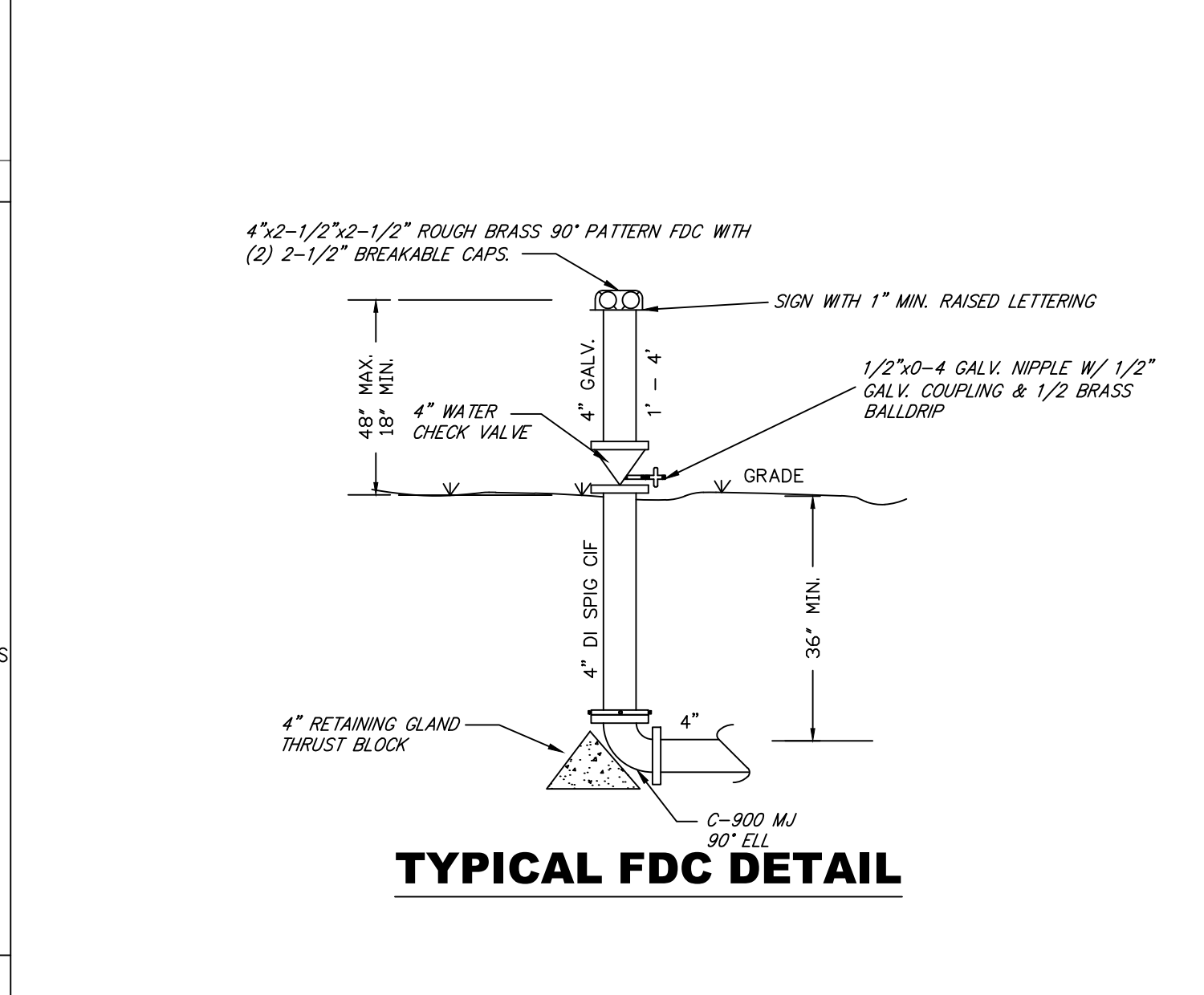
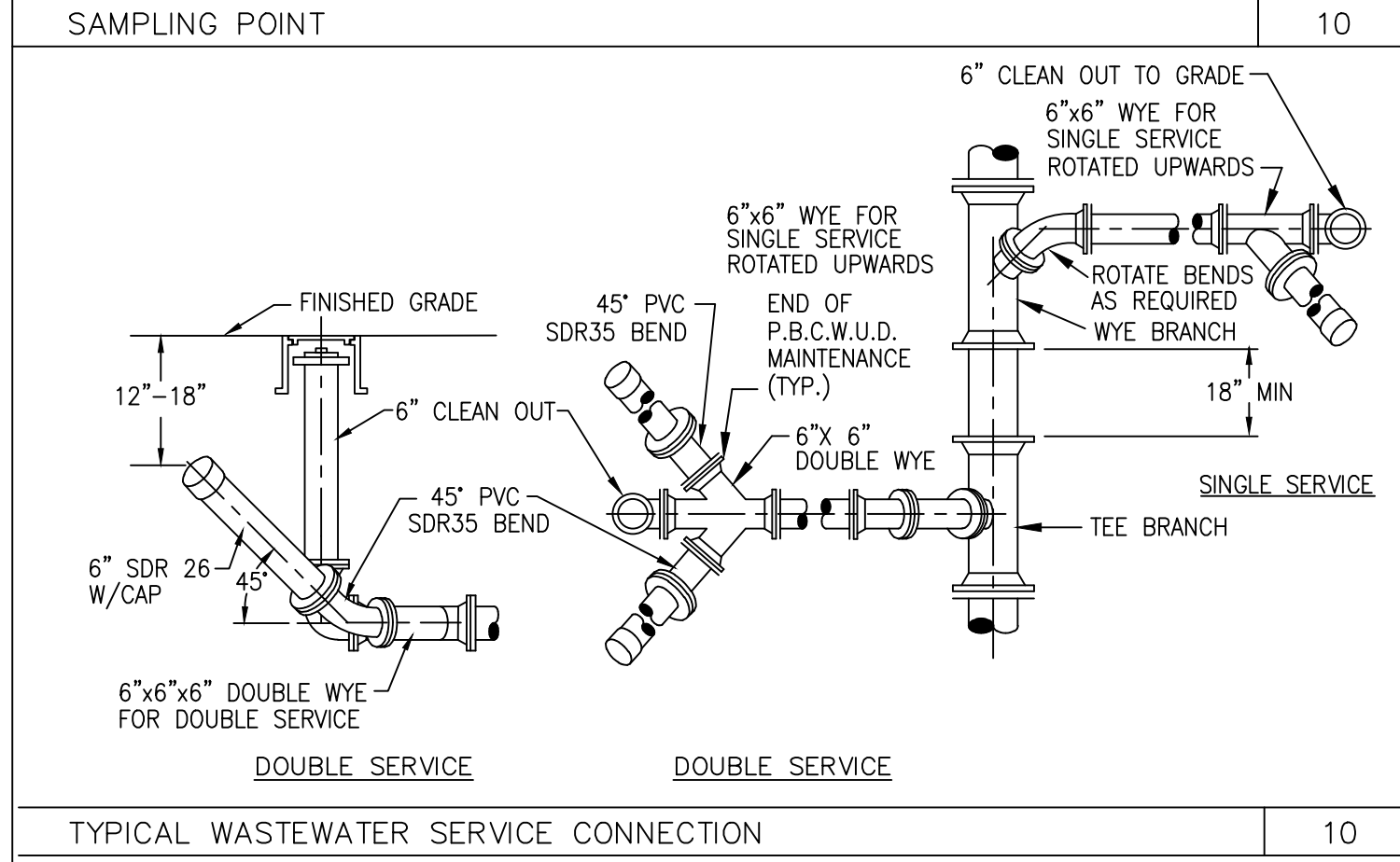
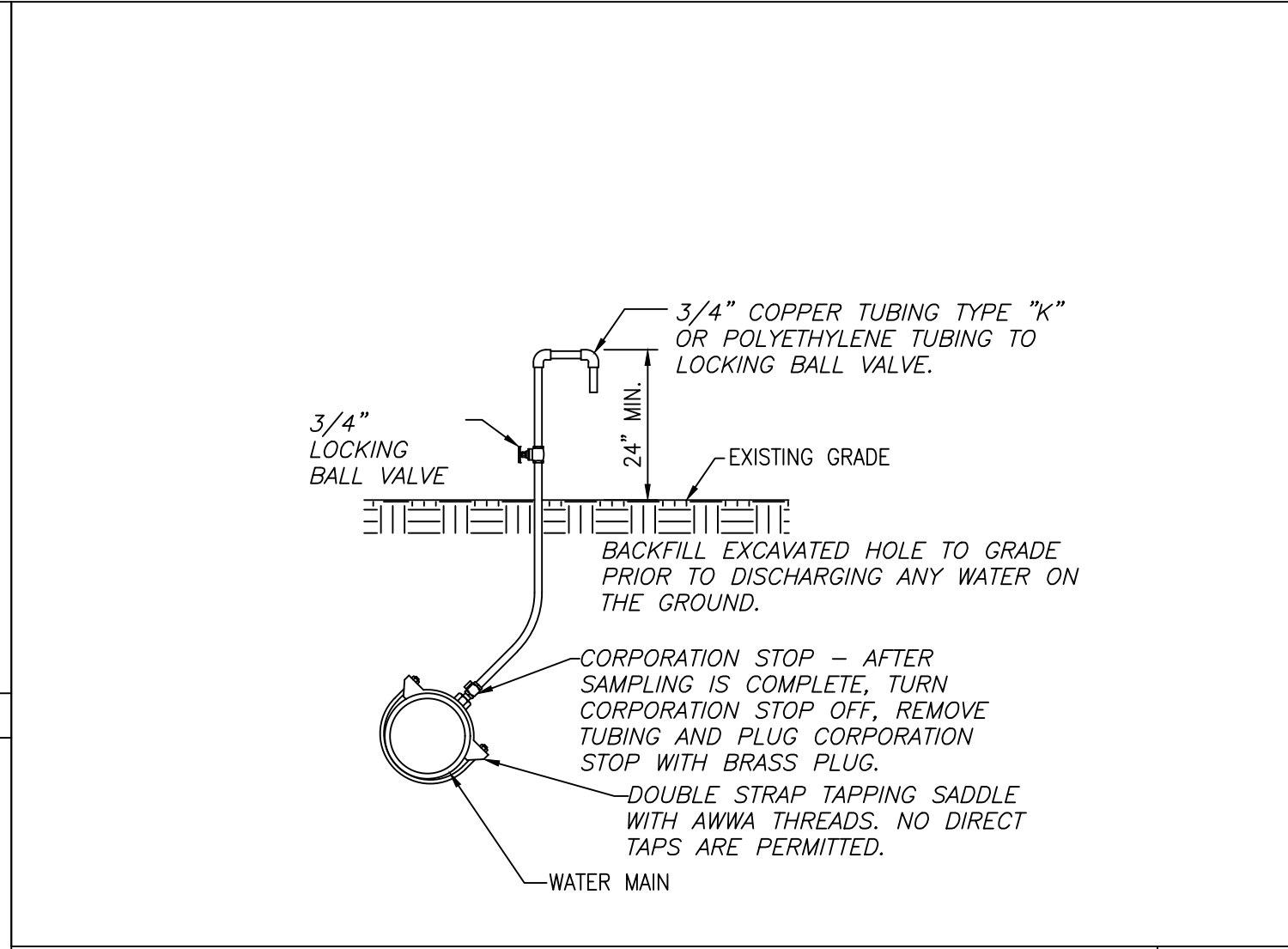
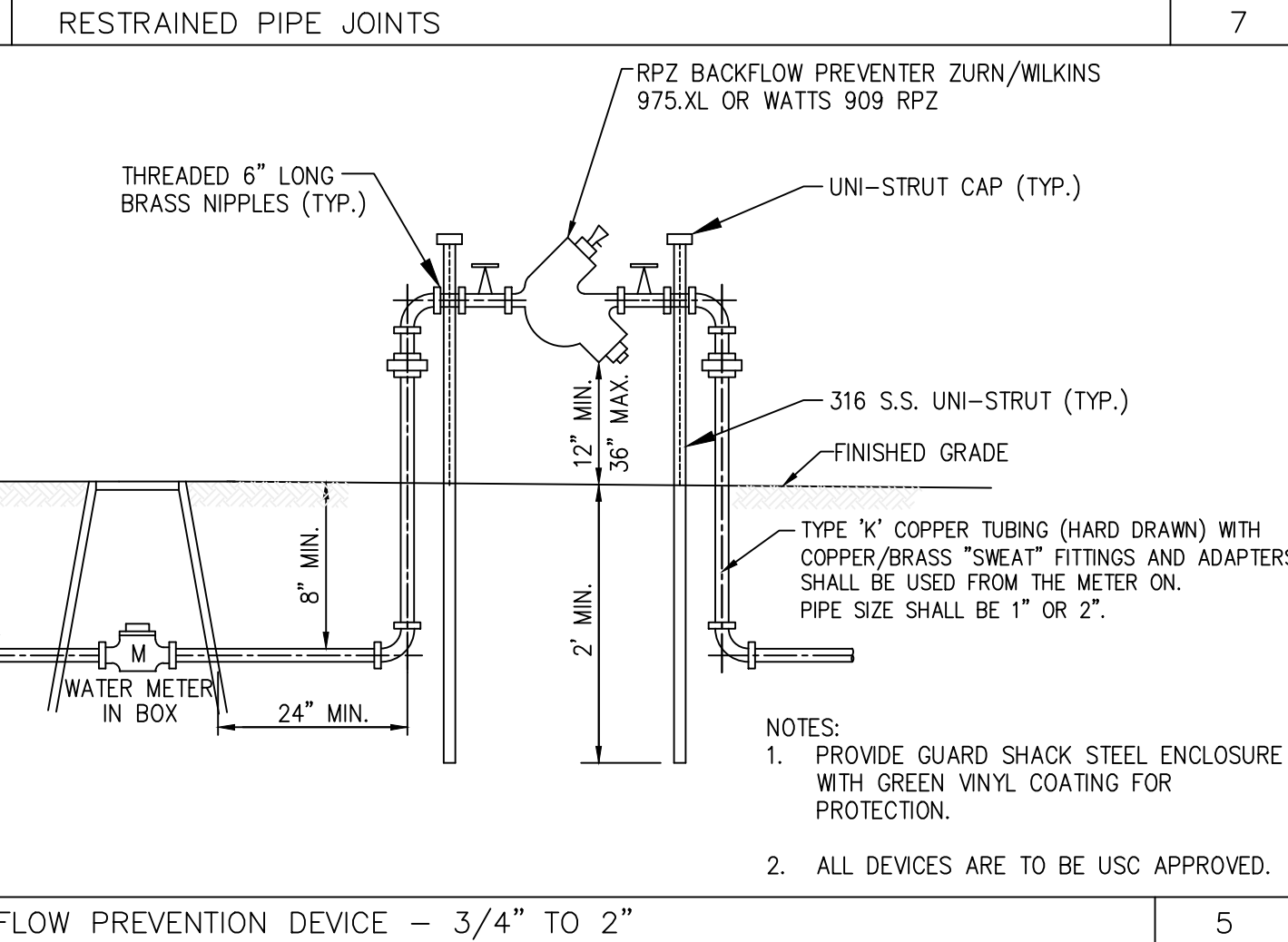
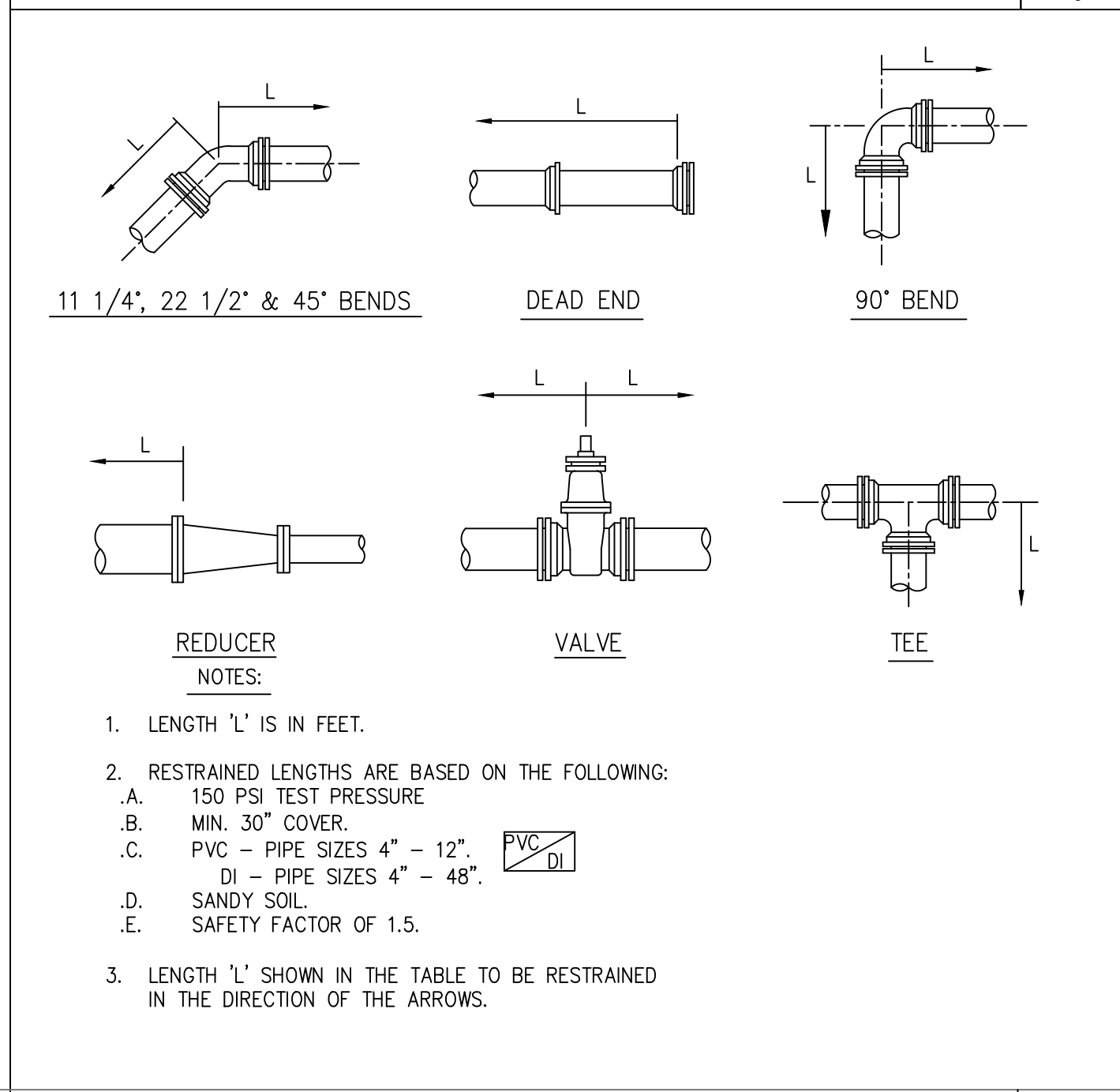
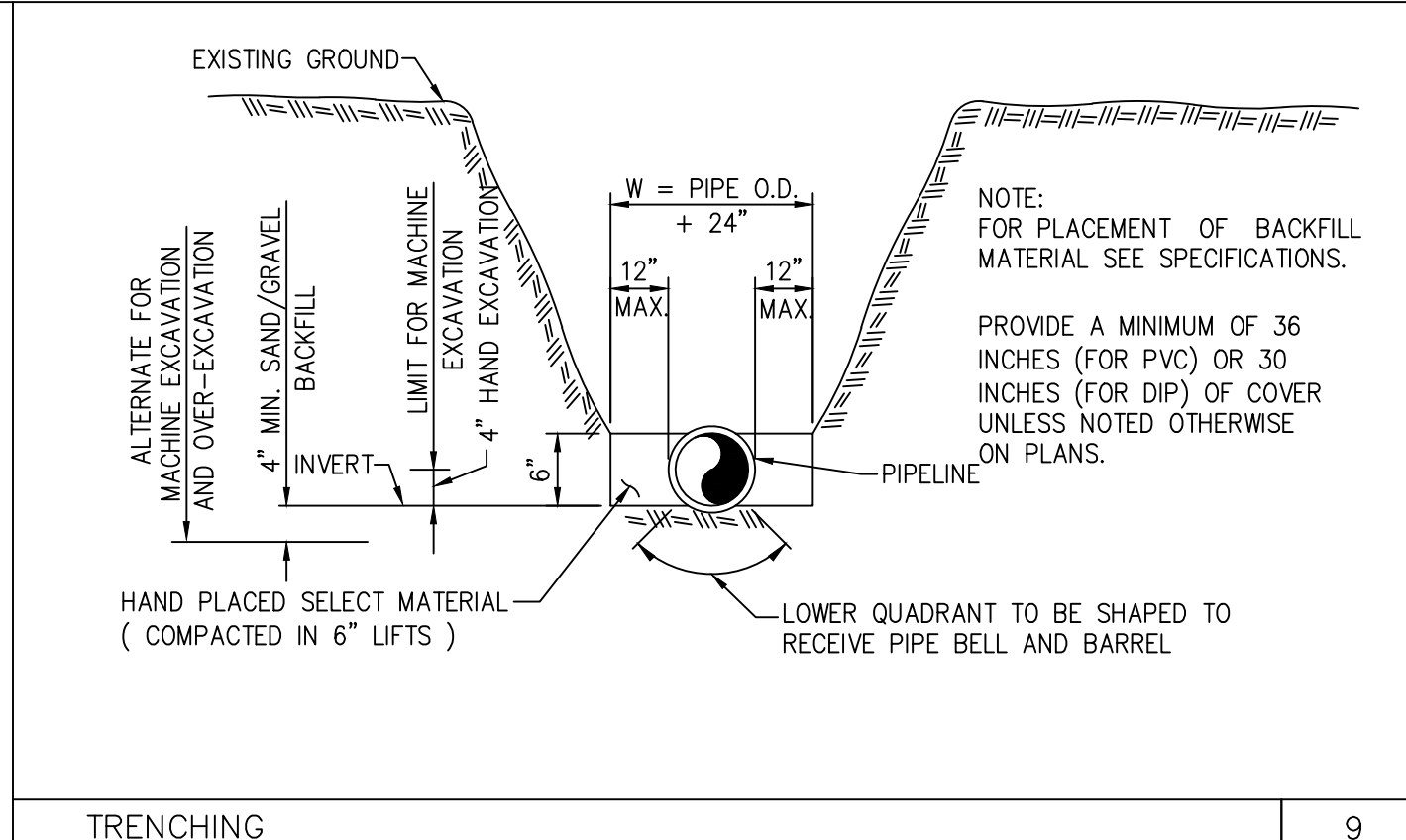
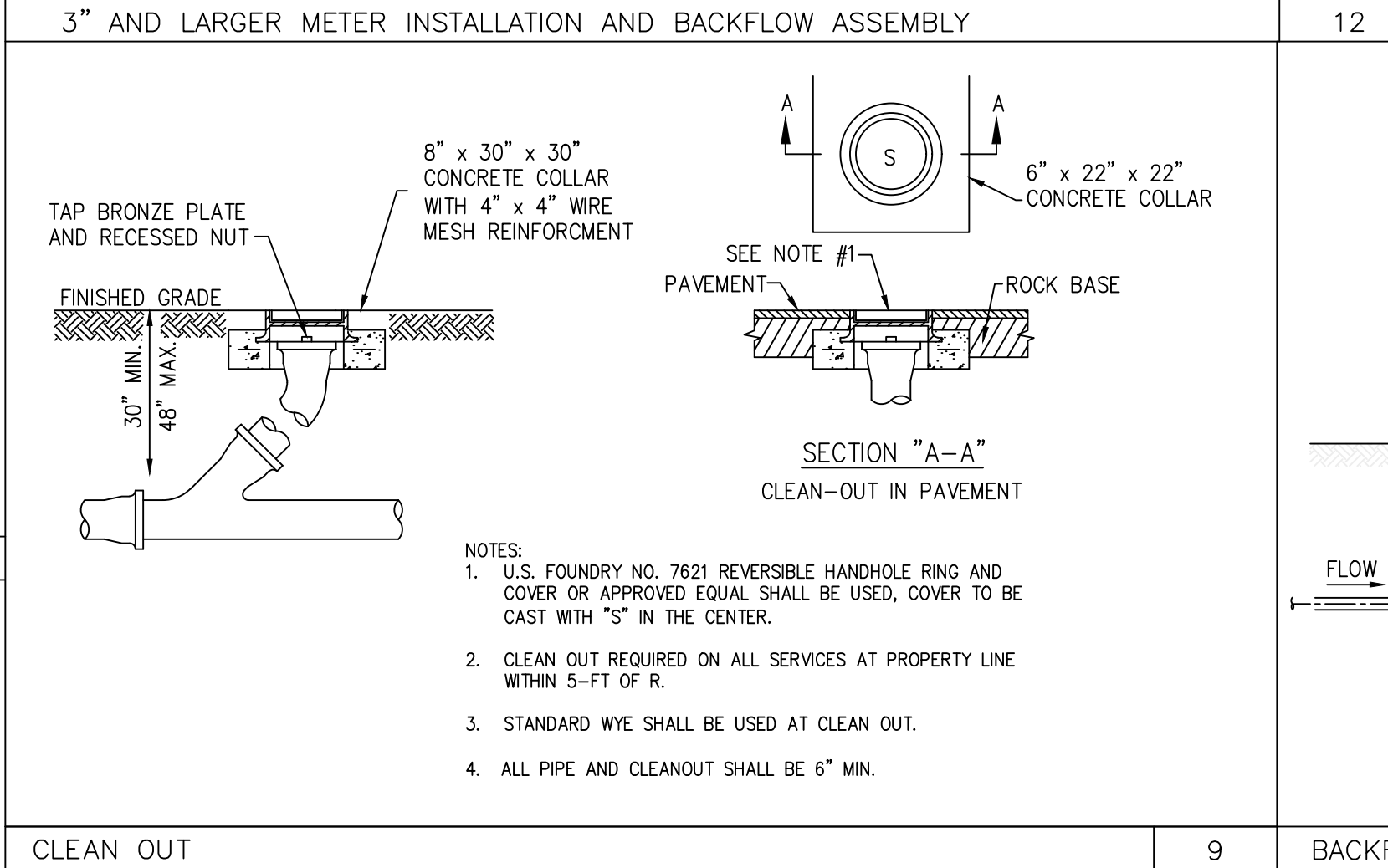
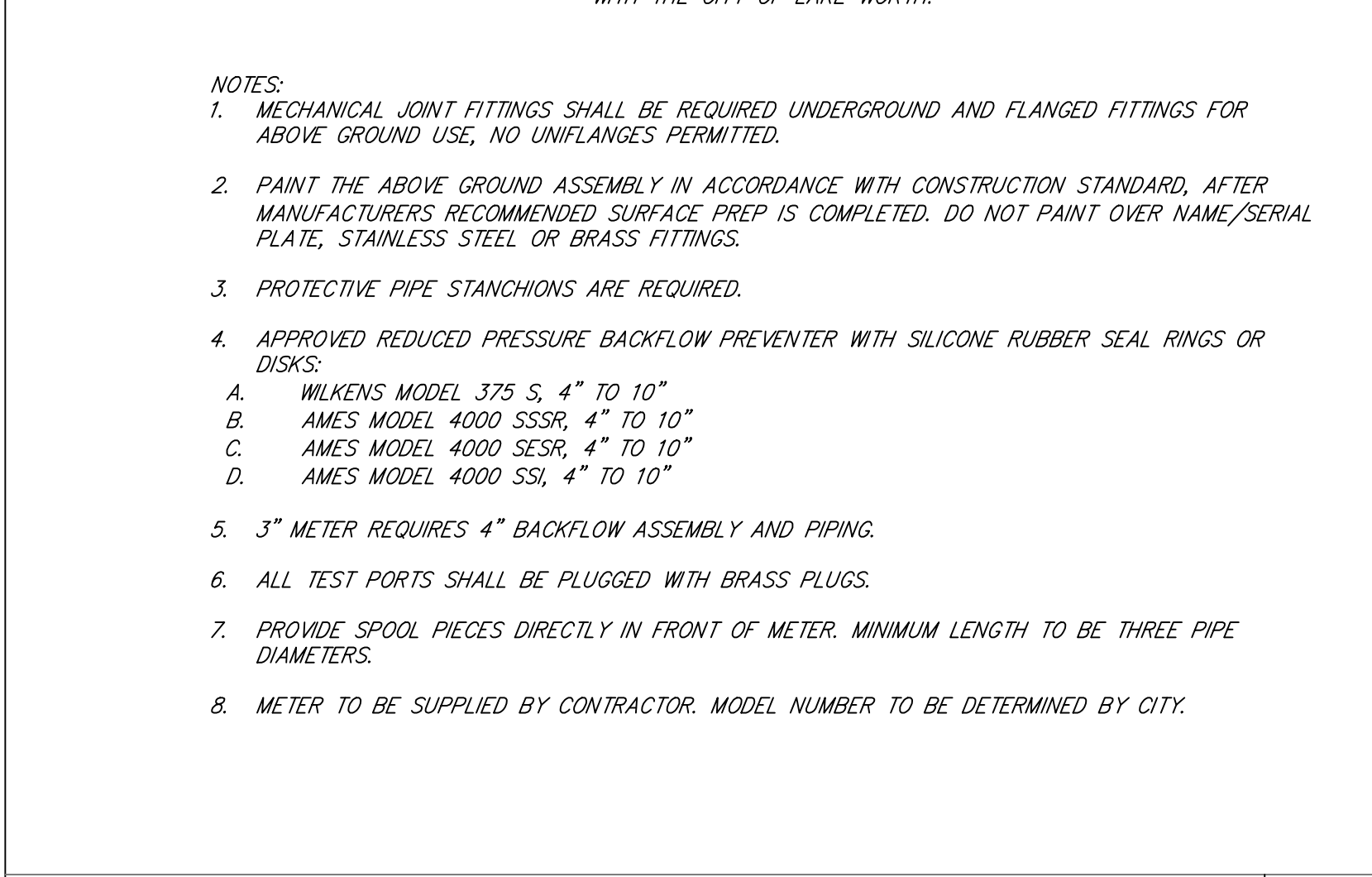
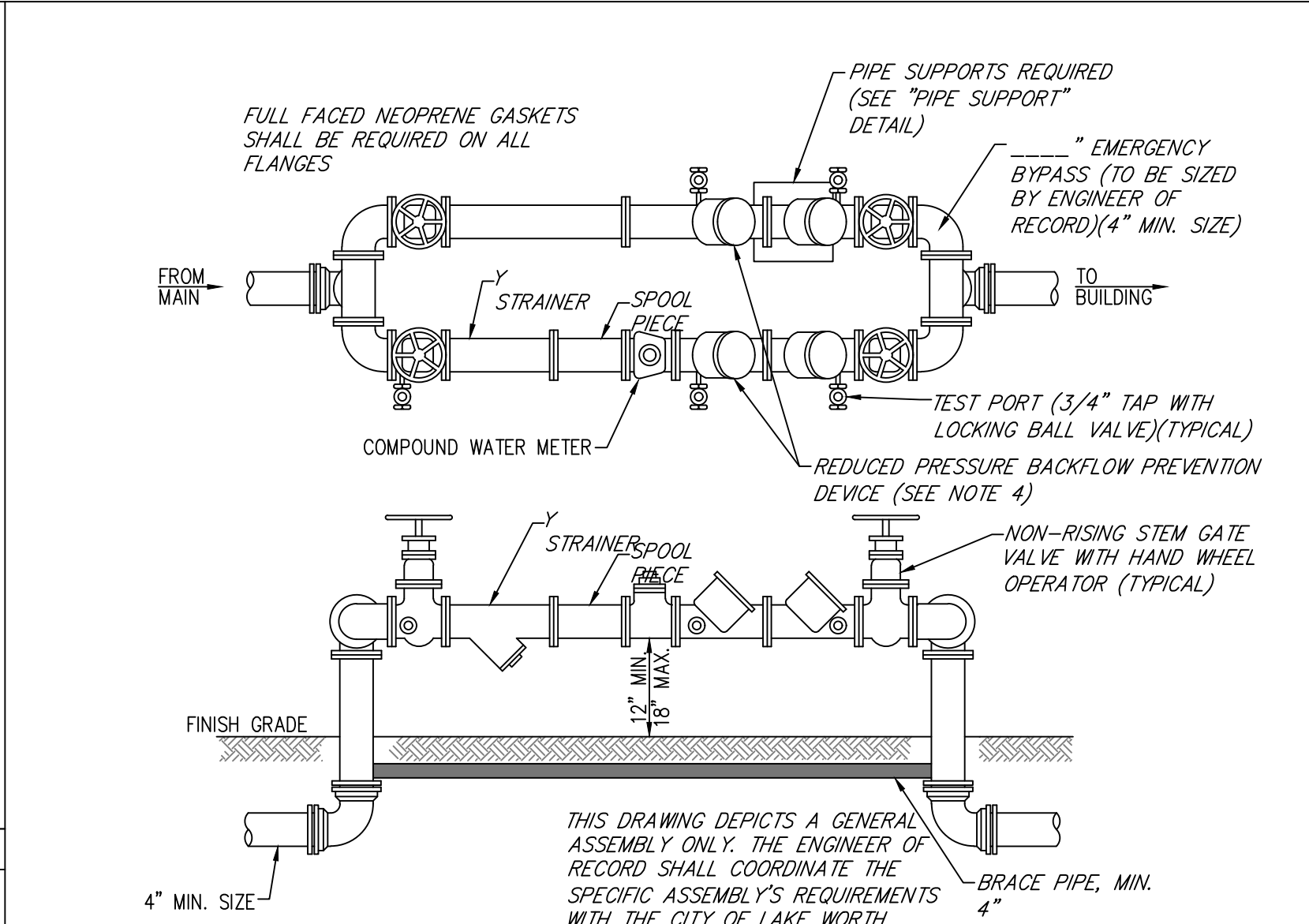
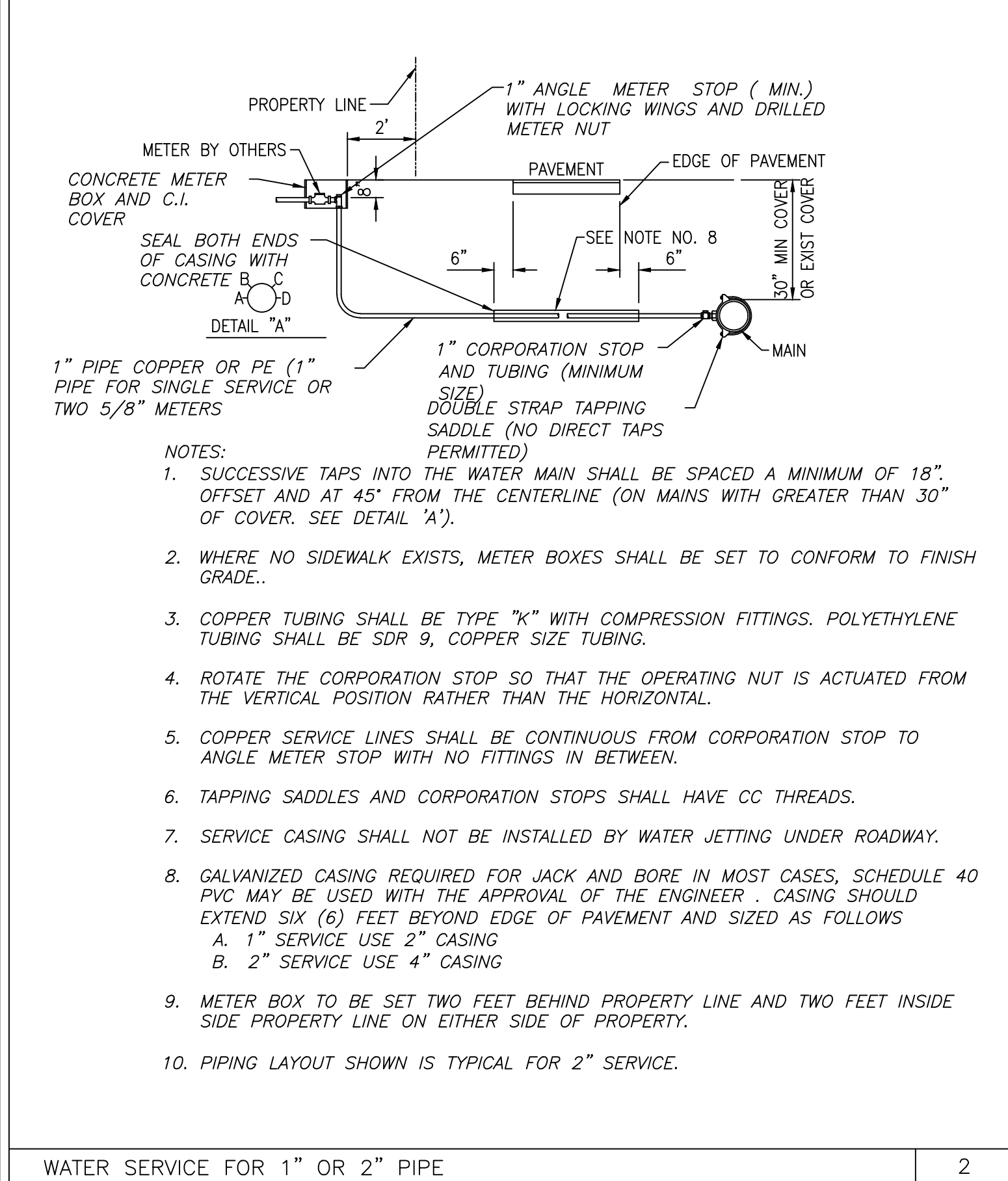
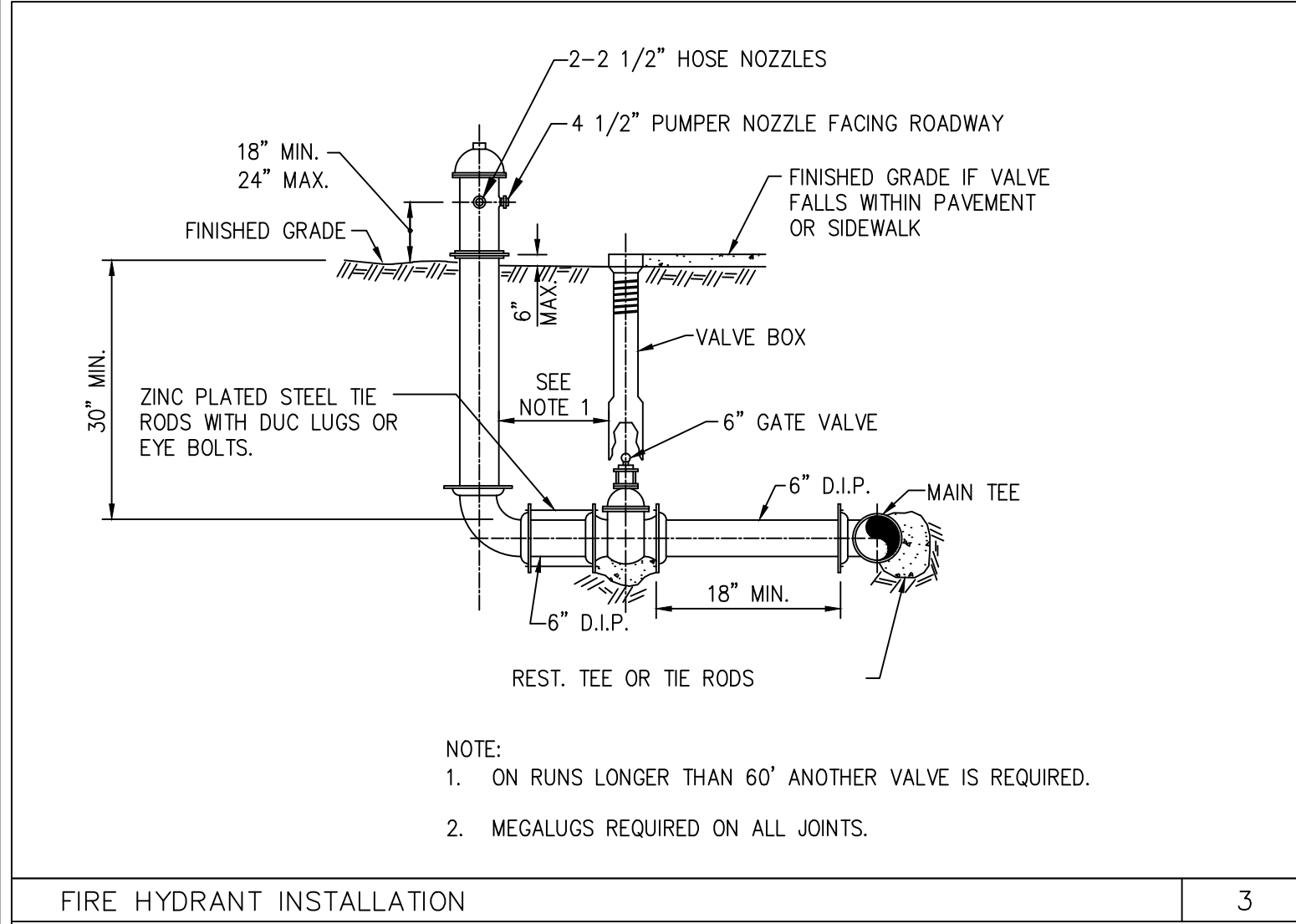
HORIZONTAL SEPARATION OF PIPELINES		ALTERNATE CONSTRUCTION
MINIMUM SEPARATION	BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED WASTEWATER LINE WHEN POSSIBLE	WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM JOINTS IN THE OTHER PIPELINE.
THREE FEET, AND PREFERABLY TEN FEET	STORM SEWER, STORMWATER FORCE MAIN OR RECLAIMED WATER MAIN	<ol style="list-style-type: none">USE OF PRESSURE-RATED PIPE CONFORMING TO THE AMERICAN WATER WORKS ASSOCIATION STANDARDS INCORPORATED INTO RULE 62-555.330, F.A.C. FOR THE OTHER PIPELINE IF IT IS A GRAVITY- OR VACUUM-TYPE PIPELINE;USE OF WELDED, FUSED OR OTHERWISE RESTRAINED JOINTS FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE; ORUSE OF WATERTIGHT CASING PIPE OR CONCRETE ENCASEMENT AT LEAST FOUR (4) INCHES THICK FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE.
THREE FEET, AND PREFERABLY TEN FEET	VACUUM-TYPE SANITARY SEWER	
SIX FEET, AND PREFERABLY TEN FEET	GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN OR RECLAIMED WATER MAIN NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.	
TEN FEET	THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER	WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THREE FEET HORIZONTALLY FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS BEING LAID LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM THE OTHER PIPELINE:
VERTICAL SEPARATION OF PIPELINES		<ol style="list-style-type: none">USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E. HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN; ANDUSE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E. HAVING A 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE OTHER PIPELINE IF IT IS NEW AND IS CONVEYING WASTEWATER OR RECLAIMED WATER.
MINIMUM SEPARATION DISTANCE FROM THE (OUTSIDE TO OUTSIDE)	NEW OR RELOCATED UNDERGROUND WATER CROSSING ANY EXISTING OR PROPOSED	
6 INCHES, PREFERABLY 12 INCHES ABOVE	GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER	
12 INCHES BELOW	GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER	
12 INCHES ABOVE OR BELOW	PRESSURE-TYPE SANITARY SEWER, WASTEWATER, STORMWATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER MAIN	
ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE.		
ALTERNATIVELY, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS OR RECLAIMED WATER MAINS, AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER, FORCE MAINS OR RECLAIMED WATER MAINS.		

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LAKE WORTH STATION LAKE WORTH BEACH, FLORIDA PRELIMINARY WATER AND SEWER PLAN	
NOT FOR CONSTRUCTION	
DRAWN: CMP	SCALE: 1" = 20'
DESIGNED: CMP	PROJECT: 137767
CHECKED: PFR	SHEET: C4.0
DATE: 04/06/2022	

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Revision / Submission		No.		Date	Comment
		1		06/15/2022	REVISED PER SRT #1
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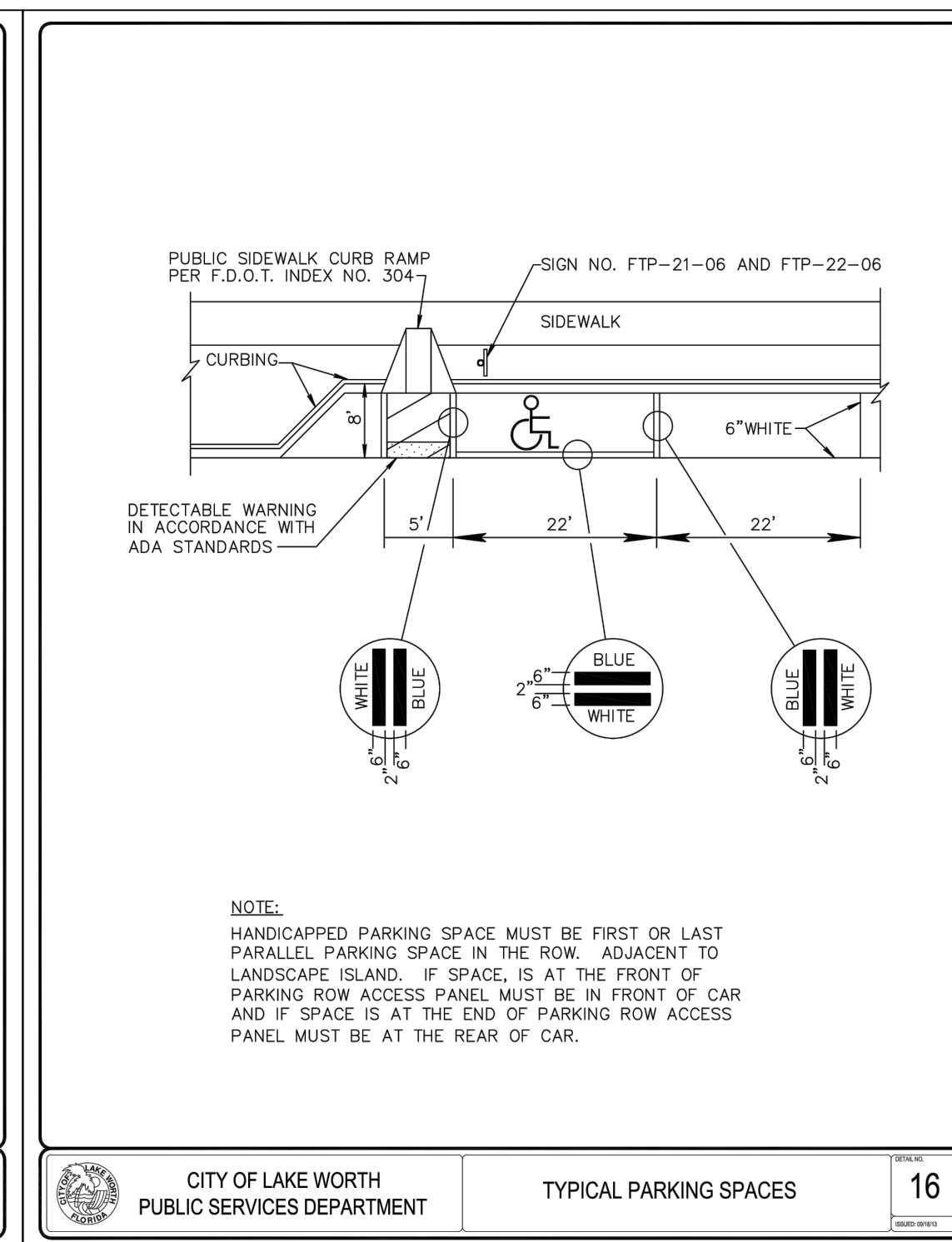
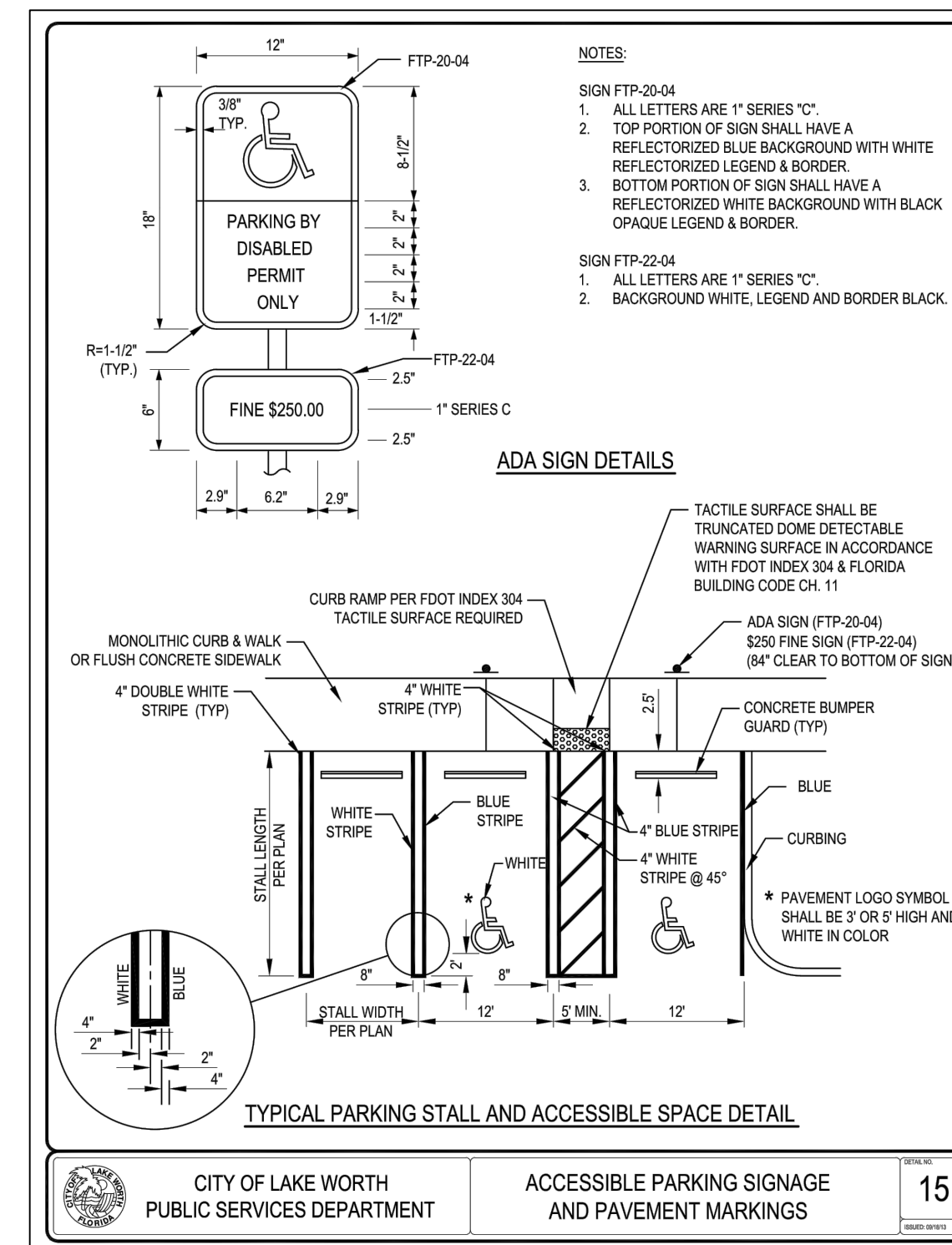
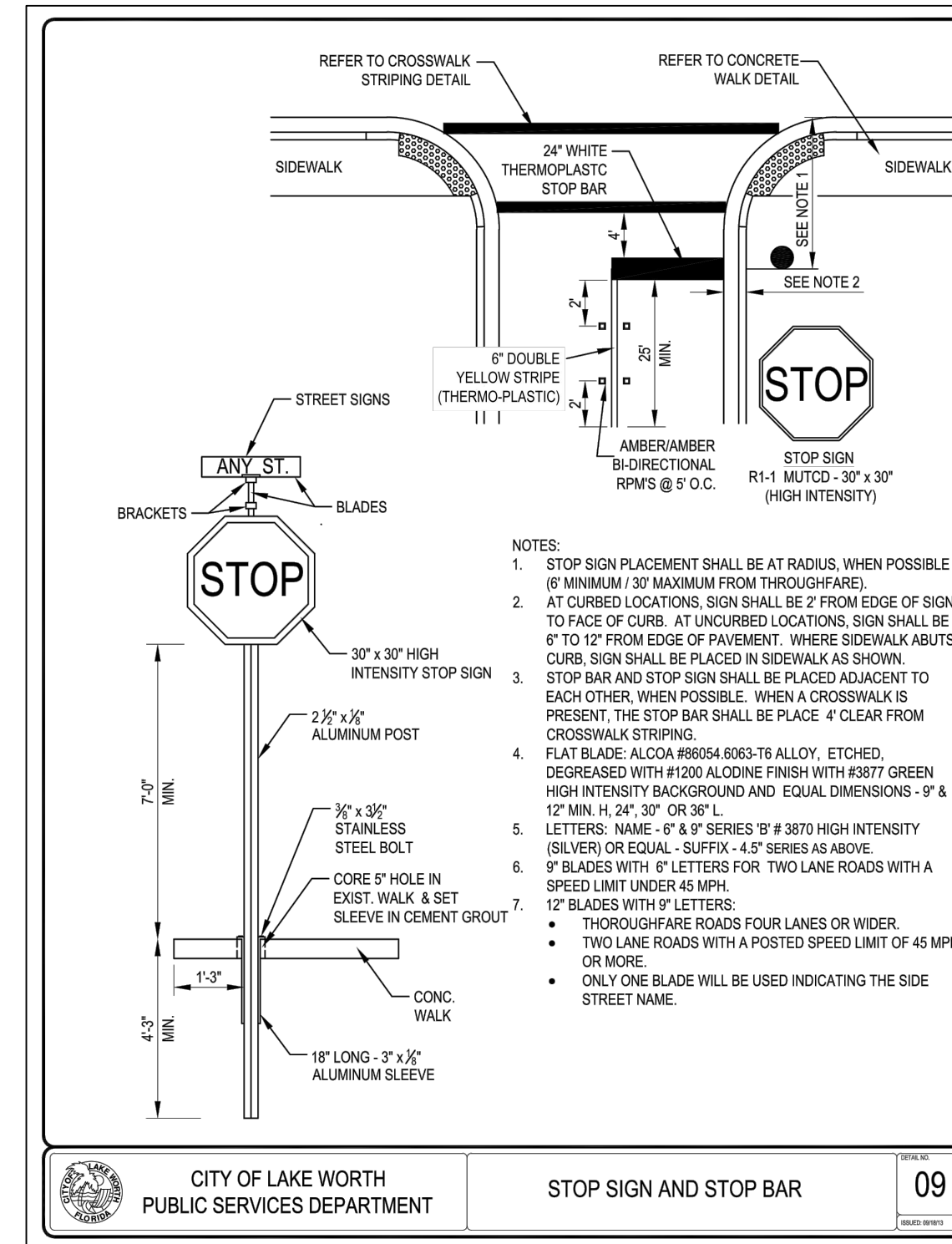
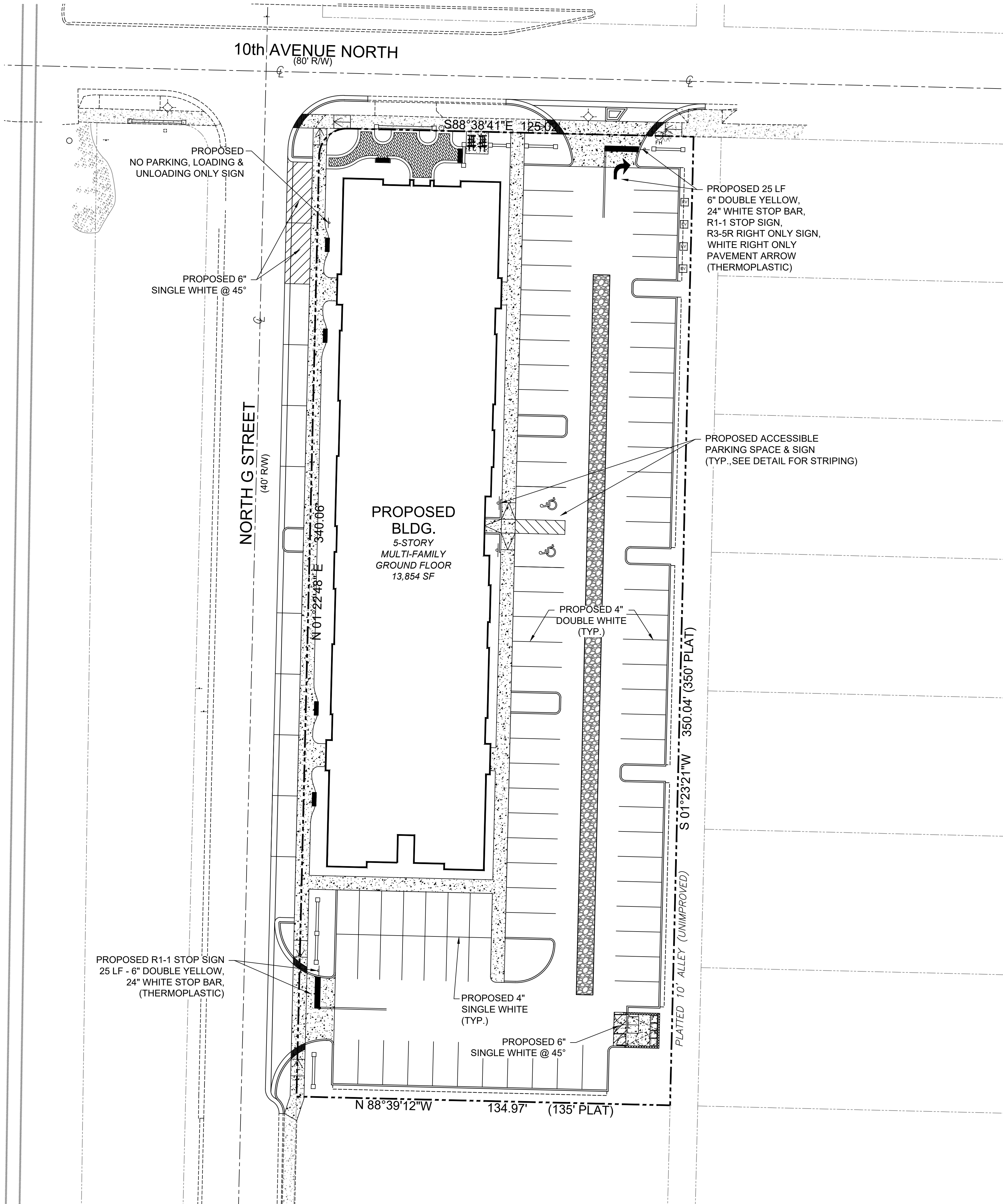
LAKE WORTH STATION
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PRELIMINARY WATER AND SEWER DETAILS

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<u>DRAWN:</u> CMP		<u>SCALE:</u> 1" = 20'		<u>PROJECT:</u> 137767		<u>SHEET:</u> C6.0		LANDSCAPE LC #28000270	
<u>DESIGNED:</u> PFR		06/08/2022							
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