

JDE Project Number: 01-2021-020

Holbrook, Norfolk County, MA 02343

Holbrook, Norfolk County, MA 02343

EXIST	PROP		EXIST	PROP	
		PROPERTY LINE			DRAINAGE LINE
		BASELINE			OVERFLOW DRAIN
		ZONING LINE			ROOF DRAIN
					SEWER LINE
		GRAVEL ROAD			OVERHEAD WIRES
		EDGE OF PAVEMENT			WATER LINE
		BITUMINOUS CURB			FIRE PROTECTION LINE
		CAPE CORD BERM			GAS LINE
		PRECAST CONC. CURB			UNDERGROUND ELECTRIC
		VERT. GRAN. CURB			TELEPHONE LINE
		LIMIT OF CURB TYPE			
		SAWCUT			DOUBLE BASIN
		MATCHLINE			CATCH CATCH BASIN
					DRAIN INLET
		STEEL GUARD RAIL			DRAIN MANHOLE
		WOOD GUARD RAIL			TRENCH DRAIN
		STOCKADE FENCE			PLUG/STUB
					FLARED END SECTION
		TREE LINE			HEADWALL
		CHAIN LINK FENCE			GREASE TRAP
		STONE WALL			CONTROL STRUCTURE
		RETAINING WALL			SEWER MANHOLE
		HAY BALES			WATER MANHOLE
					WATER GATE
		MINOR CONTOUR			TAPPING SLEEVE, VALVE & BOX RISER
		MAJOR CONTOUR			FIRE HYDRANT
		BUILDING			WATER METER
		BUILDING ENTRANCE			WELL
		LOADING DOCK			GAS GATE
		GARAGE DOOR			GAS METER
		BOLLARD			ELECTRIC MANHOLE
		SIGN			ELECTRIC BOX
		DOUBLE SIGN			ELECTRIC METER
		SPOT ELEVATION TOP & BOTTOM			LIGHT POLE
		BORING LOCATION			TELEPHONE MANHOLE
		TEST PIT LOCATION			FIRE ALARM BOX
					UTILITY POLE
					ROOF DRAIN CLEANOUT
					CORRUGATED PLASTIC



North Easton, MA 02356

1. ALL PROPOSED WALKWAYS WILL BE HANDICAPPED ACCESSIBLE. ALL PROPOSED SLOPES ON WALKWAYS TO BE LESS THAN 5%.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY EXISTING INFORMATION OR OTHER PROPOSED IMPROVEMENTS. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO JACOBS DRISCOLL ENGINEERING (JDE). CONTRACTOR WILL REFER TO (JDE) FOR ALL TECHNICAL COMMENTS FOR RESOLUTION OF THE CONFLICT.
3. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
4. THE TERM "PROPOSED" (PROP.) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET". (R&R)
5. JOINTS BETWEEN NEW BITUMINOUS CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH BITUMEN AND BACKSANDS.
6. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THEIR REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE THE START OF ANY WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE UTILITIES EXACTLY. THE CONTRACTOR SHALL RESERVE ALL UNDERGROUND UTILITIES. THE CONTRACTOR MUST CALL "DIG SAFE" (AT 1-888-DIG-SAFE) AND THE TOWN OF HOLBROOK DPW AT LEAST 72 HOURS TO MARK APPROPRIATE UTILITIES BEFORE THE START OF CONSTRUCTION.
7. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED IN KIND. LAWN AREAS SHALL HAVE A MODIFIED LOAM BORROW PLACED AND SEEDED. THE MODIFIED LOAM BORROW SHALL HAVE A MINIMUM DEPTH OF 4" AND SHALL BE PLANTED FLUSH WITH THE TOP OF ADJACENT CURB, EDGING, BERM, OR OTHER SURFACE.
8. THE CONTRACTOR SHALL WATER, MOW, AND FERTILIZE LAWN AREAS UNTIL SATISFACTORY GRASS STANDS, AND/OR THE OWNER OR ITS REPRESENTATIVE IS SATISFIED.
9. THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER, AND UTILITY UTILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY FACILITIES DAMAGED BY CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
10. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY PERMITS, PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH SAME, AND COORDINATE WITH THE ENGINEER AS REQUIRED.
11. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
12. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF OPERATIONS TO THE OWNER AND THEIR REPRESENTATIVE. THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE OWNER, THEIR ENGINEER OR REPRESENTATIVE.
13. FINAL LAYOUT AND STAKING OF ALL PROPOSED FEATURES AND GRADING SHALL BE REVIEWED IN THE FIELD AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO ANY SITE PREPARATION OR CONSTRUCTION. THE CONTRACTOR SHALL NOT ADJUST OR MODIFY THE LAYOUT AND STAKING OF ANY PROPOSED FEATURES UNTIL FINAL APPROVAL FROM THE OWNER'S REPRESENTATIVE.
14. THE CONTRACTOR SHALL REMOVE ALL STUMPS, RUBBISH, AND DEBRIS FROM THE PROJECT SITE. STORAGE OF THESE ITEMS WILL NOT BE PERMITTED ON THE PROJECT SITE. THE CONTRACTOR SHALL LEAVE THE SITE IN A SAFE, CLEAN, AND LEVEL CONDITION AT THE COMPLETION OF THE SITE CLEARING WORK.
15. ALL ELECTRICAL, TELEPHONE, AND LOCAL FIRE DEPARTMENT CONDUITS ARE TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR. TRENCHING, BACKFILLING, CONCRETE, AND STREET REPAIR SHALL BE PERFORMED BY THE GENERAL CONTRACTOR.
16. PROPOSED MANHOLE RIMS & GRATES ARE TO BE SET FLUSH AND CONSISTENT WITH GRADING PLANS. ADJUST ALL OTHER RIM ELEVATIONS OF MANHOLES, GAS GATES, WATER GATES AND OTHER UTILITIES TO FINISHED GRADE WITHIN THE LIMITS OF THE SITE WORK. IF ANY CONFLICTS ARE DISCOVERED NOTIFY OWNER'S REPRESENTATIVE.
17. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH THE APPROPRIATE UTILITY COMPANIES FOR POLE RELOCATION, AND FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES, AS REQUIRED.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A TOWN OF HOLBROOK PUBLIC WORKS CONSTRUCTION LICENSE.
19. OWNER MAY REMOVE SNOW FROM SITE AS NECESSARY AND WILL NOT PLACE ON TOWN/STATE PROPERTY.
20. THE MAINTENANCE OF THE DRAINAGE SYSTEM IS THE OWNER'S RESPONSIBILITY.
21. ANY HYDRANT, FIRE PROTECTION WATER SUPPLY LINE AND ASSOCIATED DEVICES ON SUBJECT PROPERTY SHALL BE MAINTAINED TO THE REQUIREMENTS OF NFPA25.
22. SITE LIGHTING WILL BE BUILDING MOUNTED WALL PACK LED LIGHTS AND POLE MOUNTED LED LIGHTS WITH A MAX. POLE HEIGHT OF 20'. REFER TO SHEET #6 FOR LOCATIONS.



## REVISIONS

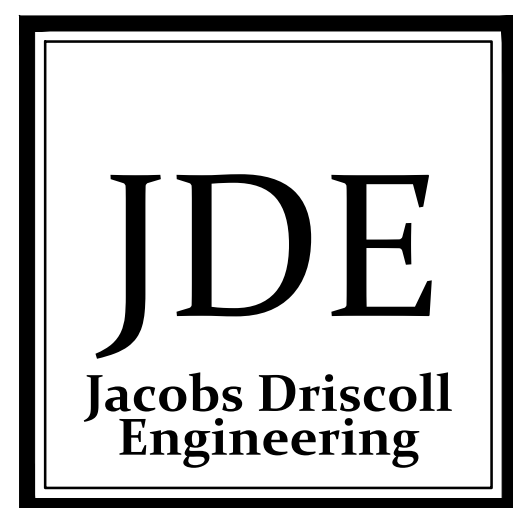
[illegible]

DRAWN BY:	JVW
CHECKED BY:	EPJ / GWD
DESIGNED BY:	GWD / JVW

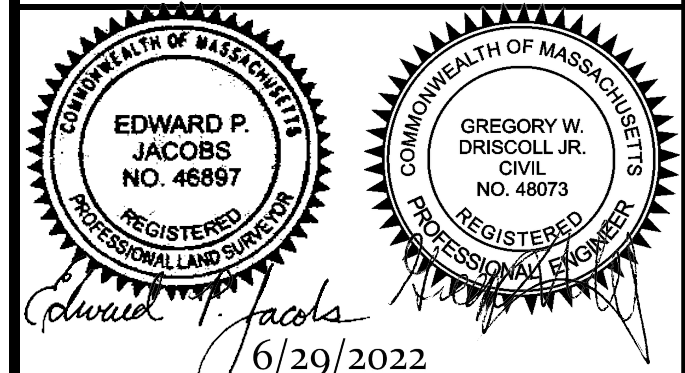
809 S. FRANKLIN STREET  
IN  
HOLBROOK  
(NORFOLK COUNTY)  
MASSACHUSETTS

JUNE 29, 2022

PREPARED FOR:  
JOHNSON SHEET  
METAL CO., INC  
809 S. FRANKLIN  
STREET  
HOLBROOK  
MASSACHUSETTS 02343



50 Oliver Street  
North Easton, Massachusetts 02356  
Phone: 508-928-4400  
[www.JacobsDriscoll.com](http://www.JacobsDriscoll.com)



SHEET 1 OF 7

JOB NUMBER: 01-2021-020



1.) LOCUS PROPERTY IS COMPRISED OF :  
ASSESSOR'S MAP 52 PLOT 67  
DEED BOOK 4806 / PAGE 88  
OWNER OF RECORD: JOHNSON SHEET METAL CO.

2.) PLAN REFERENCES :  
P-1.) PLAN BOOK 4771 PAGE 511  
P-2.) PLAN BOOK 63 PAGE 698  
P-3.) 1921 STATE HIGHWAY LAYOUT #1903 & 1946 STATE HIGHWAY LAYOUT #3481

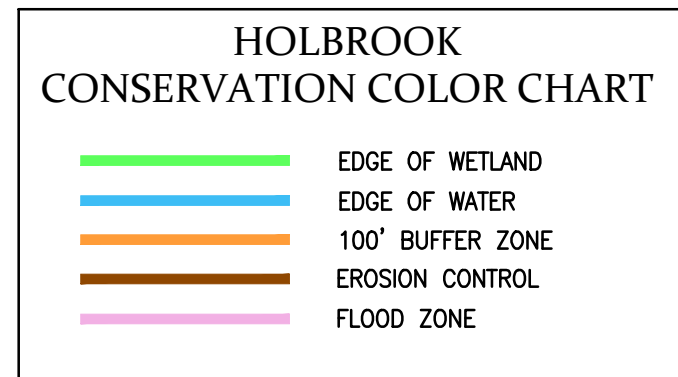
3.) PROJECT BENCHMARKS :  
BM-A NAIL SET IN UPOLE #3 ELEVATION = 157.99'  
BM-B NORTHEAST CORNER OF RETAINING WALL ELEVATION = 155.75'  
(DATUM: NAVD 88)

4.) ZONING INFORMATION ZONING DISTRICT : BI (BUSINESS I)  
MINIMUM / MAXIMUM ZONING REQUIREMENTS  
MIN. LOT AREA = 10,000 S.F.  
MIN. LOT FRONTAGE = 100'  
MIN. BUILDING SETBACKS : FRONT = 30' SIDE = 20' REAR = 30'  
MAX. BUILDING HEIGHT = 35'  
MAX. BUILDING COVERAGE % = 25%










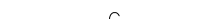







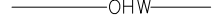
















5.) THE PROPERTY LINE INFORMATION SHOWN IS BASED ON CURRENT AVAILABLE RECORD INFORMATION CONSISTING OF PLANS AND DEEDS AND AN ACTUAL ON THE GROUND FIELD SURVEY PERFORMED BY THIS FIRM ON AND BETWEEN 11-05-21 AND 11-08-21.

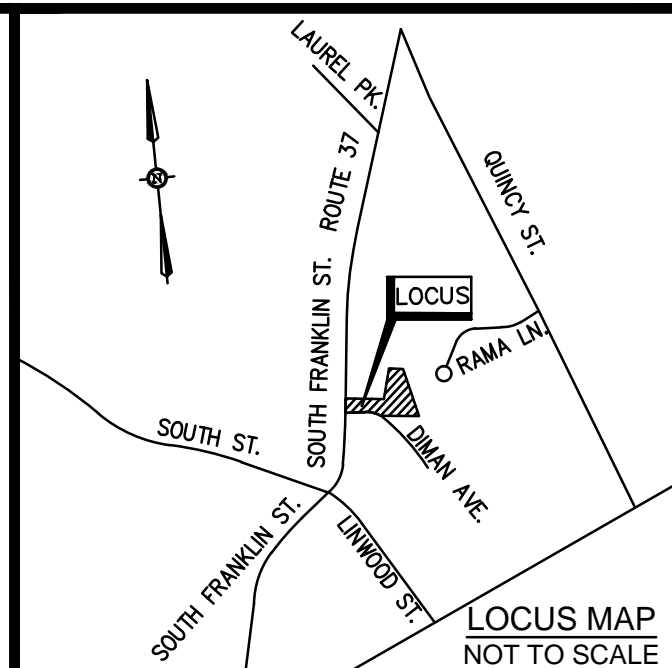
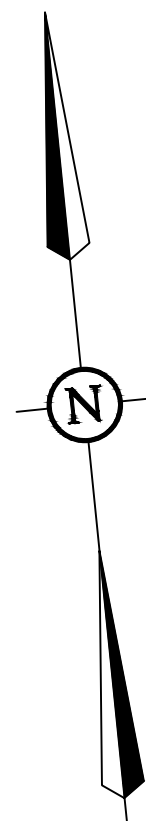
6.) COMMUNITY PANEL NUMBER: 25021C0219E (DATE: 7-17-12) THE FLOOD INSURANCE RATE MAP DEFINES THIS AREA AS ZONE X, AREA OUTSIDE THE 0.2% CHANCE ANNUAL FLOOD PLAIN, 0.2% ANNUAL CHANCE FLOOD HAZARD, AND ZONE AE, AREAS IN THE 1% CHANCE ANNUAL FLOOD ZONE WITH BASE FLOOD ELEVATION OF 153.0.

7.) THE EDGE OF WETLAND BVW WAS DELINEATED ON JULY 22, 2021 BY ENVIRONMENTAL CONSULTING & RESTORATION, LLC. AND LOCATED BY THIS FIRM ON AND BETWEEN 11-05-21 TO 11-08-21.



## LEGEND

	= WATER GATE/SHUT-OFF		= STONE WALL
	= CATCH BASIN		= DRAIN PIPE
	= DRAIN MANHOLE		= WATER LINE
	= SEWER MANHOLE		= SEWER LINE
	= ELECTRIC MANHOLE		= GAS LINE
	= TELEPHONE MANHOLE		= STOCKADE FENCE
	= MANHOLE		= CHAIN LINK FENCE
	= ELECTRIC BOX		= GUARD RAIL
	= ELECTRIC METER		= OVERHEAD WIRES
	= AIR CONDITIONER		= TREE LINE
	= GAS METER		= TREES & SHRUBS
	= GAS GATE		= UTILITY POLE/GUY WIRE
	= HYDRANT		= TRAFFIC SIGNAL POLE
	= LIGHT POLE		= EDGE OF PAVEMENT
	= SIGN		= PRECAST CONCRETE CURB
	= DPW SIGN BOX		= VERTICAL GRANITE CURB
	= MONITORING WELL		= SLOPED GRANITE CURB
			= CAPE COD BERM



## PERMITTING SET

[illegible]

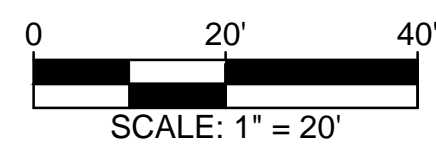
DRAWN BY:	JVW
CHECKED BY:	EPJ / GWD
DESIGNED BY:	GWD / JVW

## EXISTING CONDITIONS PLAN

809 S. FRANKLIN STREET  
IN  
HOLBROOK  
(NORFOLK COUNTY)  
MASSACHUSETTS

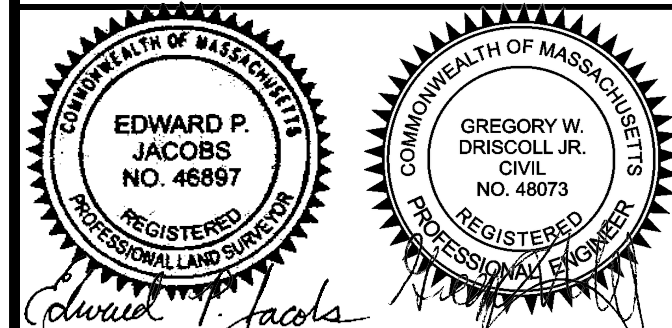
JUNE 29, 2022

PREPARED FOR:  
JOHNSON SHEET  
METAL CO., INC  
809 S. FRANKLIN  
STREET  
HOLBROOK  
MASSACHUSETTS 02343



**JDE**  
Jacobs Driscoll  
Engineering

50 Oliver Street  
North Easton, Massachusetts 02356  
Phone: 508-928-4400  
[www.JacobsDriscoll.com](http://www.JacobsDriscoll.com)



SHEET 2 OF 7

JOB NUMBER: 01-2021-020







1. THE PROJECT ELEVATIONS ARE BASED ON THE NAVD 88 VERTICAL DATUM.
2. DEMOLITION DEBRIS, EXCESS AND UNSUITABLE MATERIALS FROM THE DEMOLITION OPERATION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER BY THE CONTRACTOR.
3. DISTURBED AREAS SHALL BE PROTECTED AT ALL TIMES TO CONTROL SEDIMENT TRANSPORT BEYOND THE LIMIT OF WORK.
4. DISTURBED AREAS SHALL BE TREATED WITH WATER DURING EXCAVATION, OR APPROVED ALTERNATIVE, FOR DUST CONTROL.
5. ALL DISTURBED AREAS NOT OTHERWISE TREATED SHALL BE STABILIZED WITH 4" LOAM, SEED, & MULCH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AREAS UNTIL VEGETATION HAS BEEN PERMANENTLY ESTABLISHED. SLOPES IN EXCESS OF 3:1 SHALL BE FURTHER STABILIZED WITH EROSION CONTROL BLANKETS (ECB) OF CURLEX OR EQUAL.
6. ALL DRAINAGE STRUCTURES AND PIPING SHALL BE DESIGNED AND INSTALLED FOR H-20 LOADING.
7. CPP = HIGH DENSITY POLYETHYLENE CORRUGATED PIPE WITH SMOOTH INTERIOR WALL TO MEET ADS N-12 PIPE SPECIFICATION OR EQUAL. CPP PIPE USE SHALL BE ALLOWED AS NOTED, WITH A DIAMETER UP TO AND INCLUDING 24". BACKFILLING CPP MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS AND SPECIAL CARE MUST BE EXERCISED (SEE ADS PRODUCT NOTE 3.115).

8. ROOF DOWNSPOUTS SHALL BE TIED INTO ROOF DRAINS AS SHOWN ON PLAN. ROOF DRAINS TO BE AT LEAST 6" CPP AT 1.00% SLOPE MINIMUM, UNLESS OTHERWISE NOTED. MINIMUM TYPICAL COVER SHALL BE 2 FEET, UNLESS OTHERWISE NOTED.

9. ALL RCP PIPE TO MEET CLASS IV SPECIFICATIONS.

10. ALL PIPE INSTALLATIONS SHALL FOLLOW PROJECT SPECIFICATIONS AND PIPE MANUFACTURER RECOMMENDATIONS.

11. INSPECTION AND MAINTENANCE, AS OUTLINED HEREIN, SHALL BE PERFORMED FOUR TIMES WITHIN THE FIRST YEAR OF OPERATION. THENCE, INSPECTIONS AND MAINTENANCE SHALL BE CONDUCTED ON A SEMIANNUAL BASIS (2 TIMES A YR.) AND AFTER ALL LARGE STORMS. AN INSPECTION REPORT SHALL BE MAINTAINED.

12. ACCUMULATED DEBRIS IN CATCH BASINS, TRENCH GRATES, BASINS AND LEACHING BASINS SHALL BE REMOVED BEFORE IT EXCEEDS 2 FEET IN DEPTH AND DISPOSED OF PROPERLY. BROKEN OR DAMAGED GAS TRAPS/HOODS SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO ENSURE ADEQUATE FUNCTION.

1. 12" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN ALL UTILITY CROSSINGS.

2. A MINIMUM 10' HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN WATER AND SEWER LINES. WHERE WATER LINES CROSS SEWER LINES, THE SEWER LINE SHALL BE LOCATED WITH A MINIMUM VERTICAL CLEARANCE OF 18" BELOW THE WATER LINE. THE SEWER LINE JOINTS SHALL BE LOCATED QUADRIANT AND AS FAR AWAY FROM THE WATER LINE AS POSSIBLE. WHEN IT IS IMPOSSIBLE TO ACHIEVE HORIZONTAL AND/OR VERTICAL SEPARATION AS STIPULATED ABOVE, BOTH THE WATER LINE AND SEWER LINE AT THE CROSSING LOCATION SHALL BE CONSTRUCTED OF MECHANICAL JOINT CEMENT-LINED DUCTILE IRON PIPE FOR ONE FULL 20' PIPE LENGTH OR ANOTHER EQUIVALENT THAT IS WATERTIGHT AND STRUCTURALLY SOUND. THE JOINTS FOR BOTH PIPES SHALL BE PROTECTED BY A MINIMUM 12" THICK CONCRETE CURB. BOTH PIPES SHOULD BE PRESSURE TESTED TO 150 PSI TO ENSURE THAT THEY ARE WATERTIGHT.

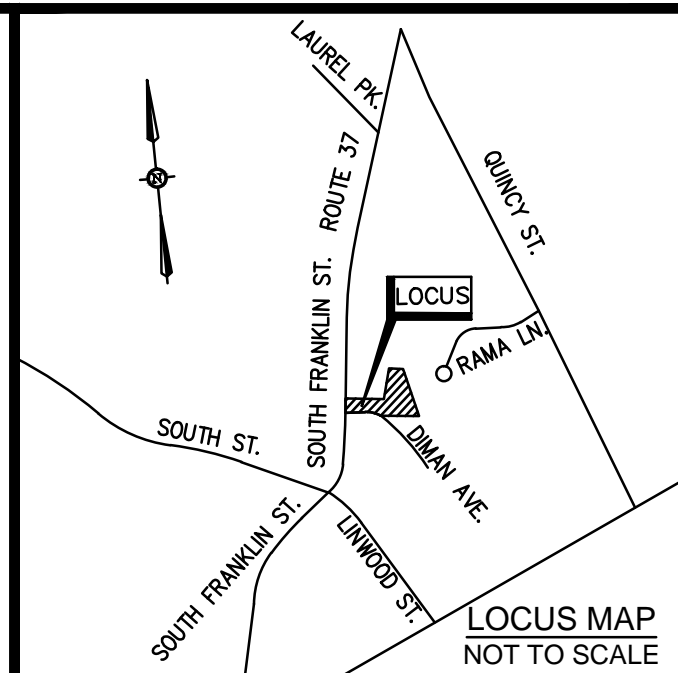
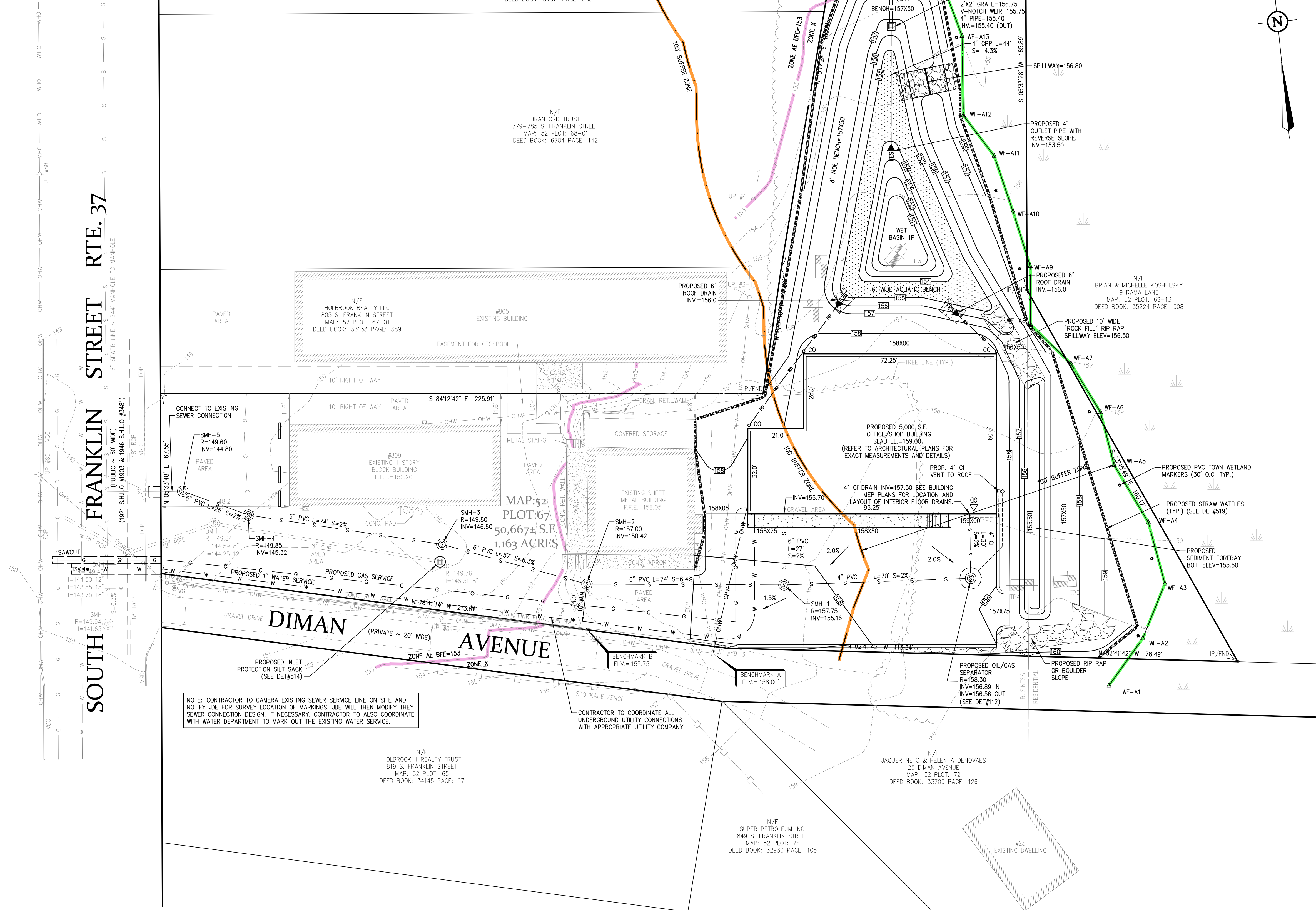
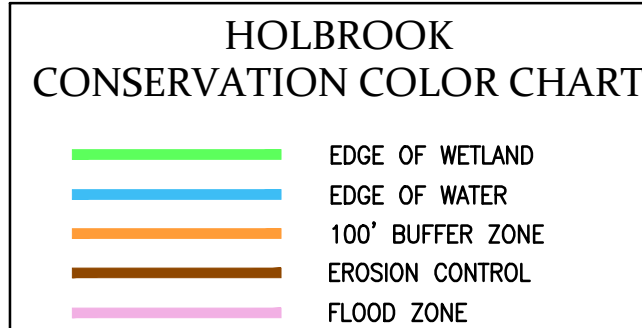
3. SEWER BUILDING CONNECTIONS SHALL BE 6" MIN. SDR 35 PVC, UNLESS OTHERWISE NOTED, AT A SLOPE OF 1% MINIMUM FROM MAINLINE TO BUILDING UNIT WITH A CLEAN OUT SET AT A DISTANCE OF 10' (UNLESS OTHERWISE NOTED) OFF FOUNDATION.

4. TYPICAL COVER OVER WATER LINE SHALL BE 5'. IF LESS THAN 4' OF COVER IS PROVIDED, INSULATE WATER LINE AGAINST FREEZING.

5. GAS, ELECTRIC, DATA/COM IS SHOWN SCHEMATICALLY HEREON. THESE UTILITIES SHALL BE INSTALLED WITH A MINIMUM COVER OF 3 FEET UNLESS OTHERWISE NOTED OR OTHERWISE DIRECTED BY THE CONTROLLING UTILITY COMPANY. CONTRACTOR SHALL COORDINATE FINAL LAYOUT WITH APPLICABLE UTILITY COMPANY.

6. ALL COMMERCIAL LIGHTING SHALL DIRECT ALL LIGHT SO AS TO KEEP ALL LIGHTING WITHIN SUBJECT LOT.

7. ALL UTILITY CUTS THROUGH EXISTING CONCRETE OR BITUMINOUS CONCRETE PAVED SURFACES SHALL BE SAW CUT. BACK FILLING OF TRENCH SHALL INCLUDE 12" IN DEPTH FLOWABLE FILL TO BE THE BASE COURSE OF THE SURFACE TREATMENT. THE SURFACE TREATMENT SHALL THEN BE REPLACED IN KIND. IF THE BITUMINOUS CONCRETE SURFACE IS WITHIN THE ROADWAY THE BITUMINOUS CONCRETE TOP COURSE SHALL BE FINISHED WITH INFRARED TREATMENT TO BLEND EXISTING & NEWLY PAVED SURFACES.



## PERMITTING SET

[illegible]

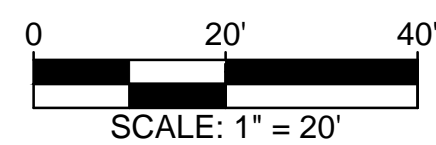
DRAWN BY:	JVW
CHECKED BY:	EPJ / GWD
DESIGNED BY:	GWD / JVW

# GRADING, DRAINAGE, UTILITY & EROSION CONTROL PLAN

809 S. FRANKLIN STREET  
IN  
HOLBROOK  
(NORFOLK COUNTY)  
MASSACHUSETTS

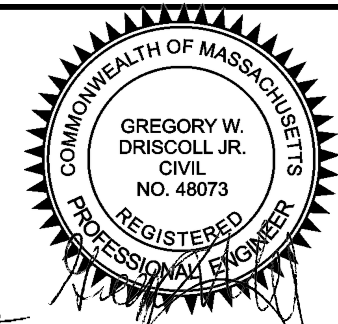
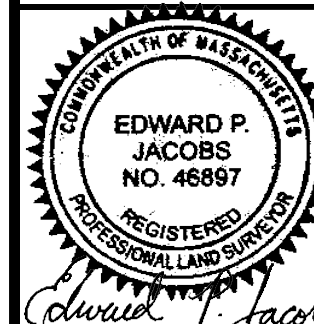
JUNE 29, 2022

PREPARED FOR:  
JOHNSON SHEET  
METAL CO., INC  
809 S. FRANKLIN  
STREET  
HOLBROOK  
MASSACHUSETTS 02343



**JDE**  
Jacobs Driscoll  
Engineering

50 Oliver Street  
North Easton, Massachusetts 02356  
Phone: 508-928-4400  
[www.JacobsDriscoll.com](http://www.JacobsDriscoll.com)

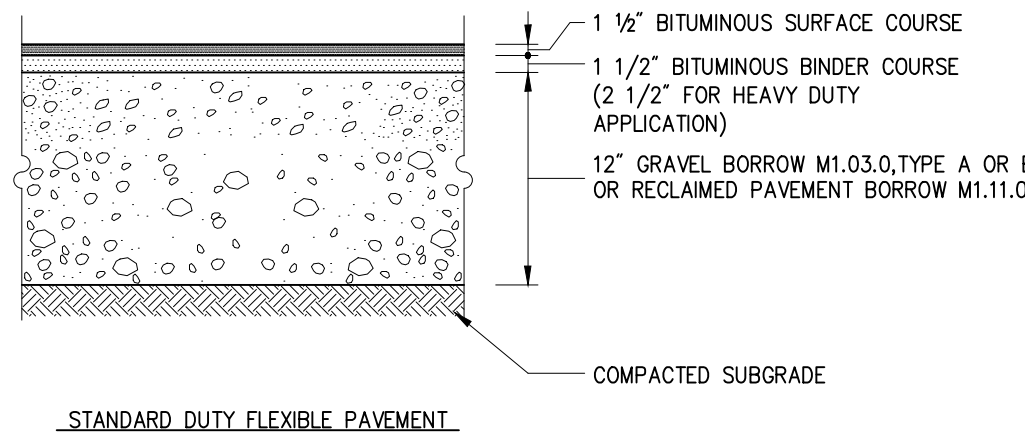


SHEET 4 OF 7

JOB NUMBER: 01-2021-020

JOB NUMBER: 01-2021-020



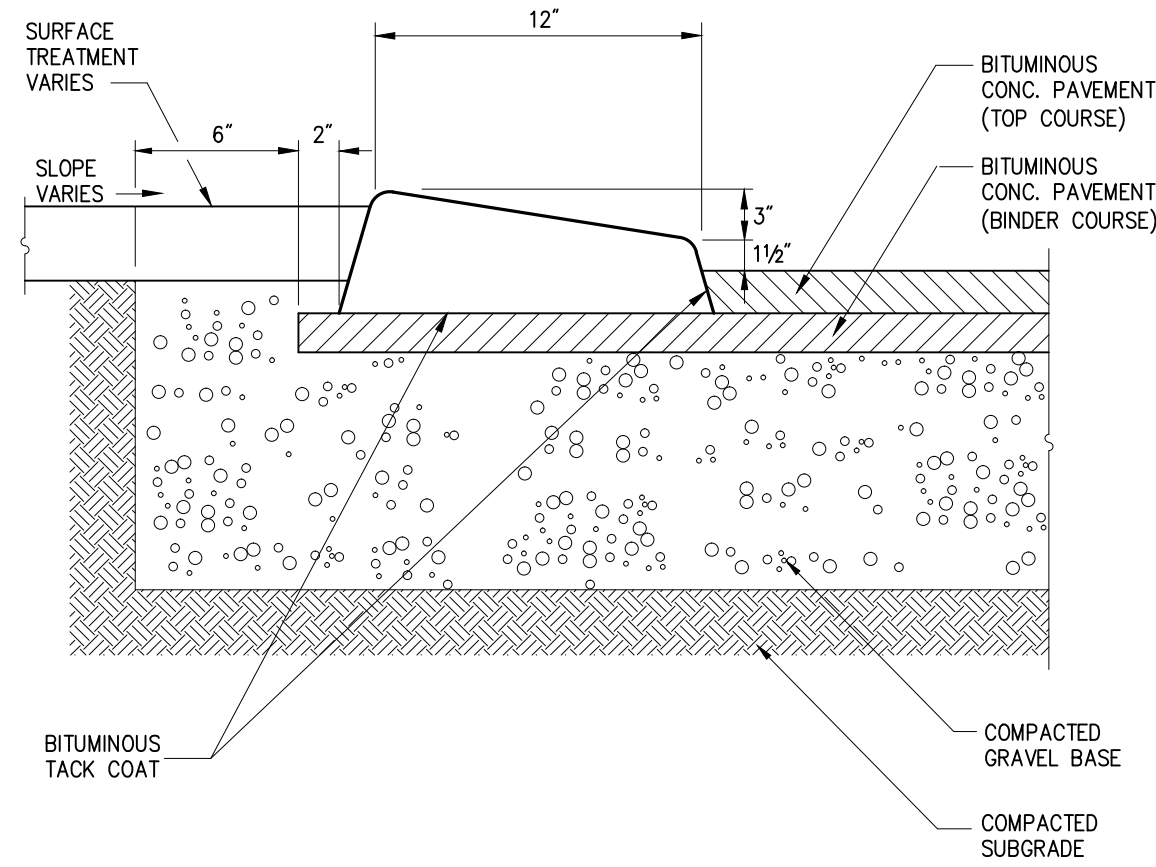


COMPOSITION AND COMPACTION ACCEPTANCE TESTS

1. OBTAIN SAMPLES FROM PLANT TO INDICATE CONFORMANCE WITH M3.11.09
2. PAVEMENT DENSITY AS OUTLINED IN M3.11.09
3. ALL SAMPLES TO BE TAKEN IN ACCORDANCE WITH AASHTO T230
4. MATERIALS SHALL MEET OR EXCEED THE REQUIREMENTS SPECIFIED IN SECTION M3.11.00 DIVISION III, MATERIALS AND THE FOLLOWING SUBSECTIONS

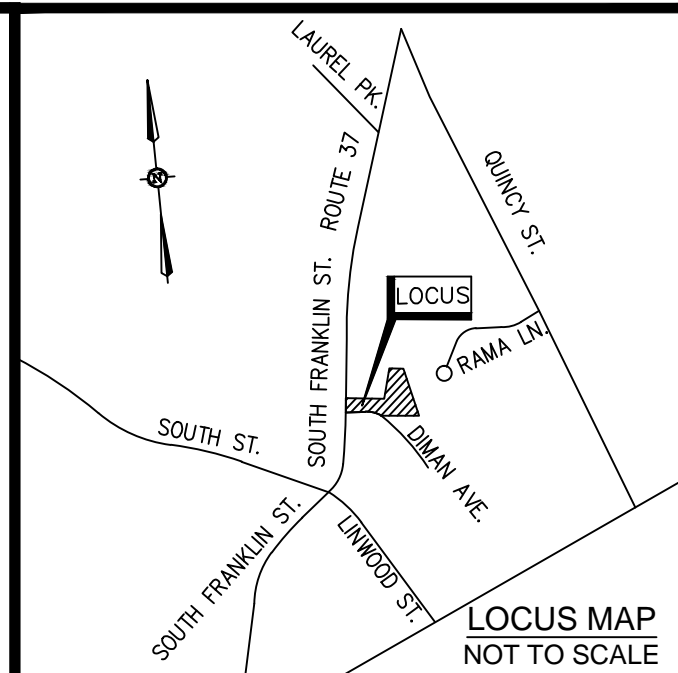
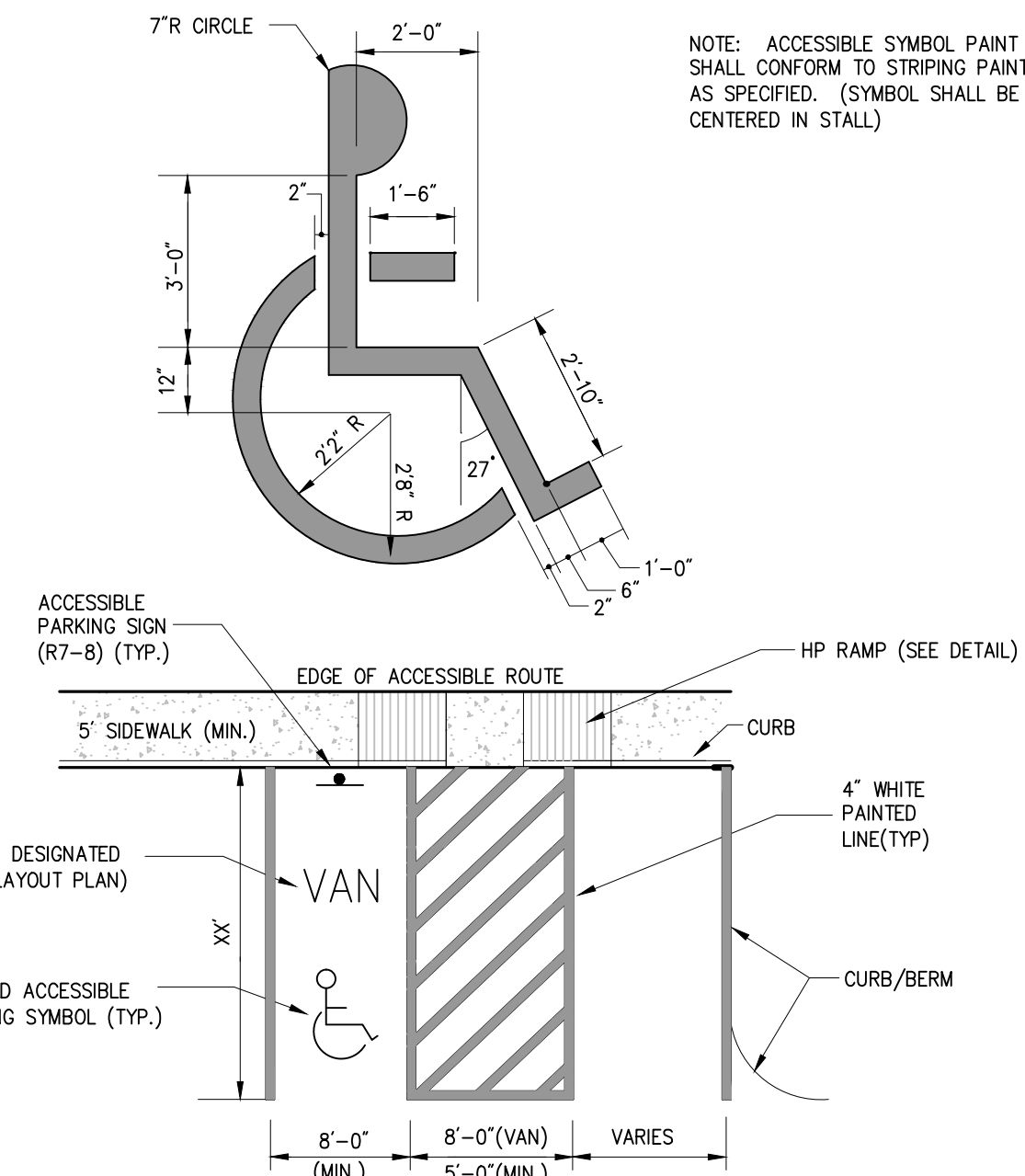
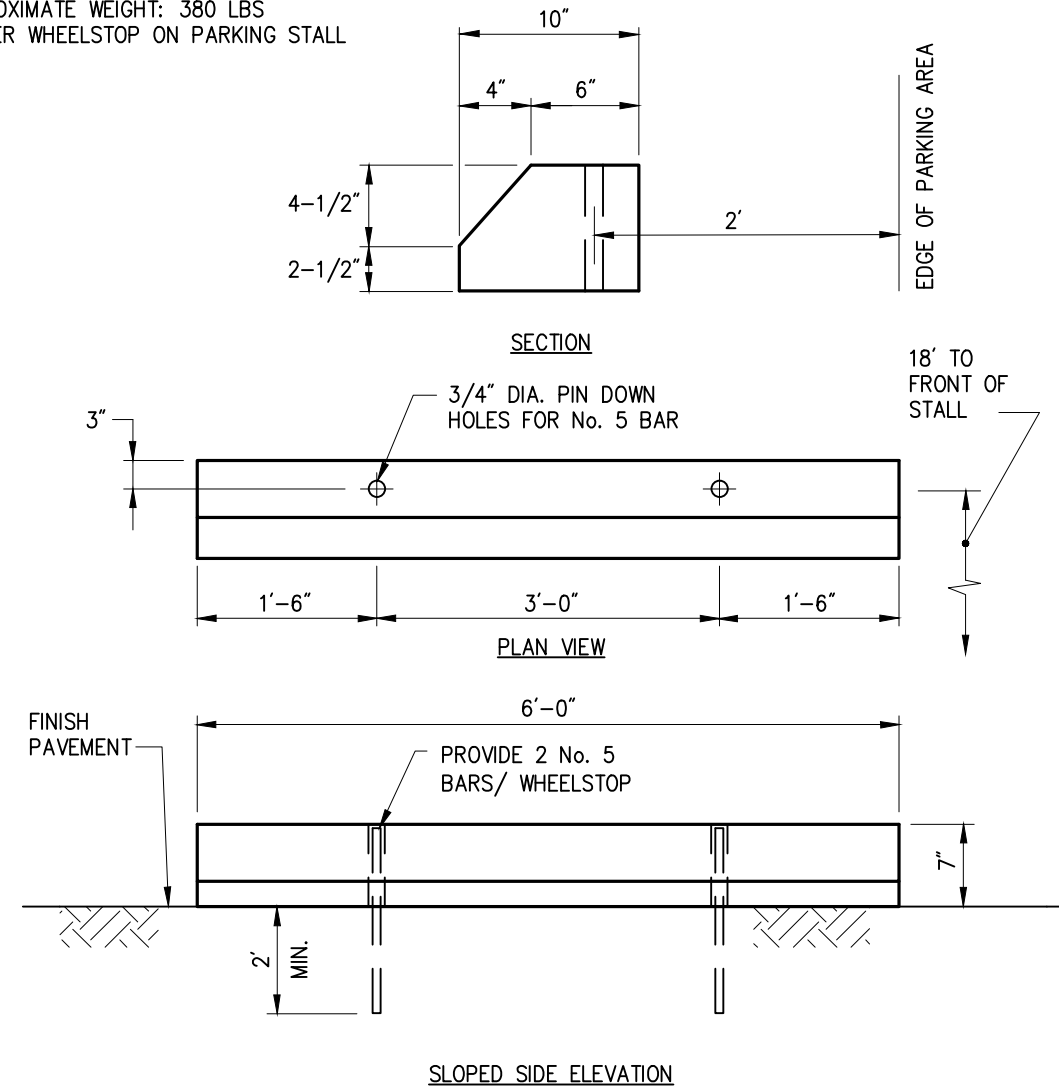
MINERAL AGGREGATE :M3.11.04 BITUMINOUS MATERIALS :M3.11.06 MINERAL FILLER :M3.11.05  
COMPOSITION OF BASE COURSE :M3.11.02

5. THE BITUMINOUS CONCRETE BASE COURSE SHALL BE CONSTRUCTED IN ACCORDANCE WITH RELEVANT SECTIONS/PROVISIONS OF SECTION 460 FOR CLASS I BITUMINOUS CONCRETE PAVEMENT, TYPE I-1
6. CLASS I BITUMINOUS PAVEMENT, TYPE I-1 REQUIRED THE SAME TESTING AS BASE COURSE AND SHALL HAVE A MINIMUM OF 95% COMPACTION. TESTING TO BE COMPLETED BY METHODS OUTLINED IN M3.11.00



DESIGN DATA

1. CONCRETE STRENGTH F'C 4,000 PSI @ 28 DAYS. DENSITY 150 PCF.
2. CEMENT, PORTLAND TYPE I OR III PER C150-81.
3. ADMIXTURES, AIR & PLASTICIZERS PER ASTM C223-82.
4. AIR ENTRAINMENT 5%-7%.
5. APPROXIMATE WEIGHT: 380 LBS
6. CENTER WHEELSTOP ON PARKING STALL



PERMITTING SET

REVISIONS		
No.	DATE	DESCRIPTION

DRAWN BY: J/VW  
CHECKED BY: EPJ / GWD  
DESIGNED BY: GWD / J/VW

CONSTRUCTION DETAILS

809 S. FRANKLIN STREET  
IN  
HOLBROOK  
(NORFOLK COUNTY)  
MASSACHUSETTS

JUNE 29, 2022

PREPARED FOR:  
JOHNSON SHEET  
METAL CO., INC  
809 S. FRANKLIN  
STREET  
HOLBROOK  
MASSACHUSETTS 02343

**JDE**  
Jacobs Driscoll  
Engineering

50 Oliver Street  
North Easton, Massachusetts 02356  
Phone: 508-928-4400  
www.JacobsDriscoll.com



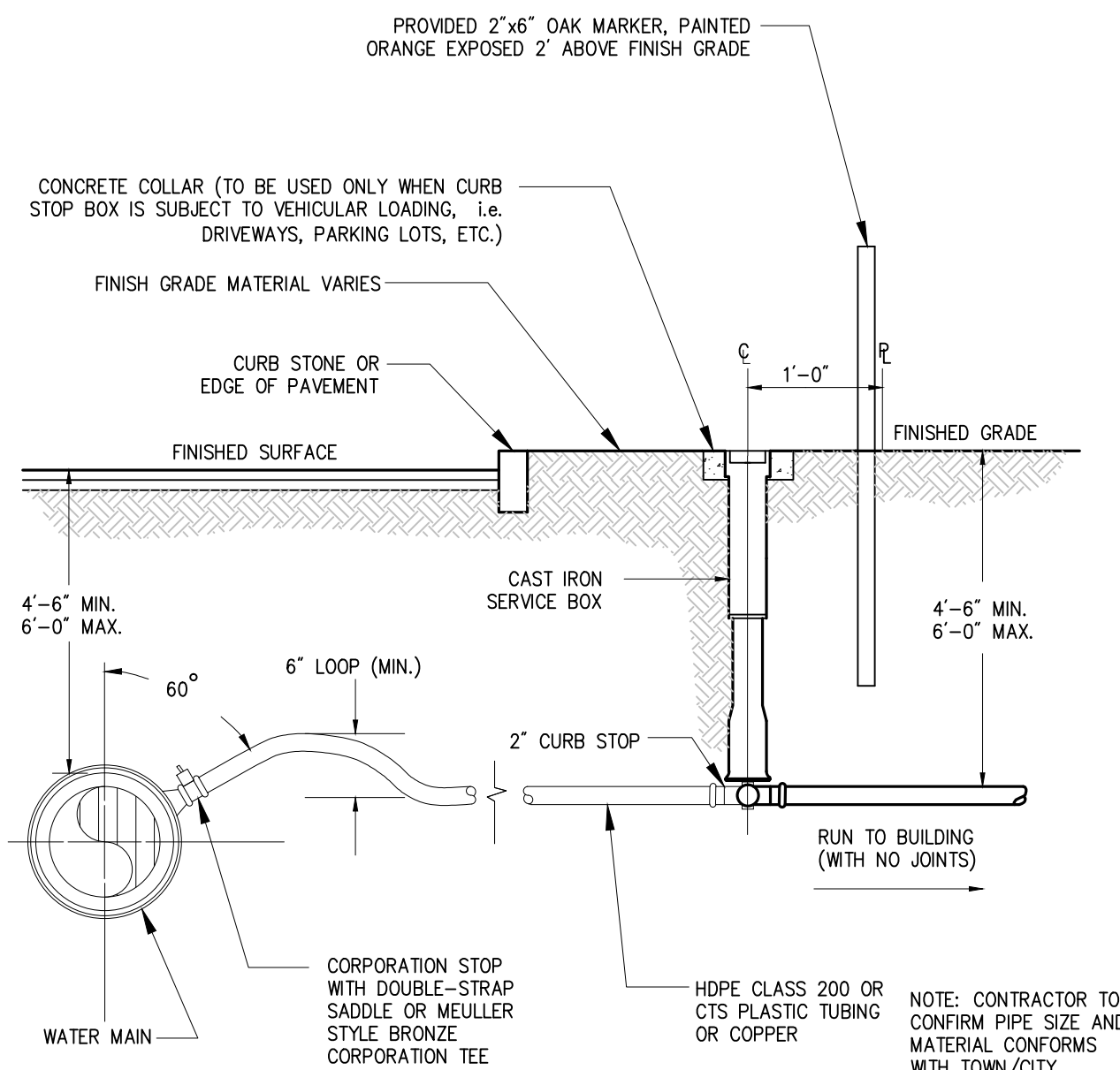
6/29/2022

SHEET 5 OF 7

JOB NUMBER: 01-2021-020

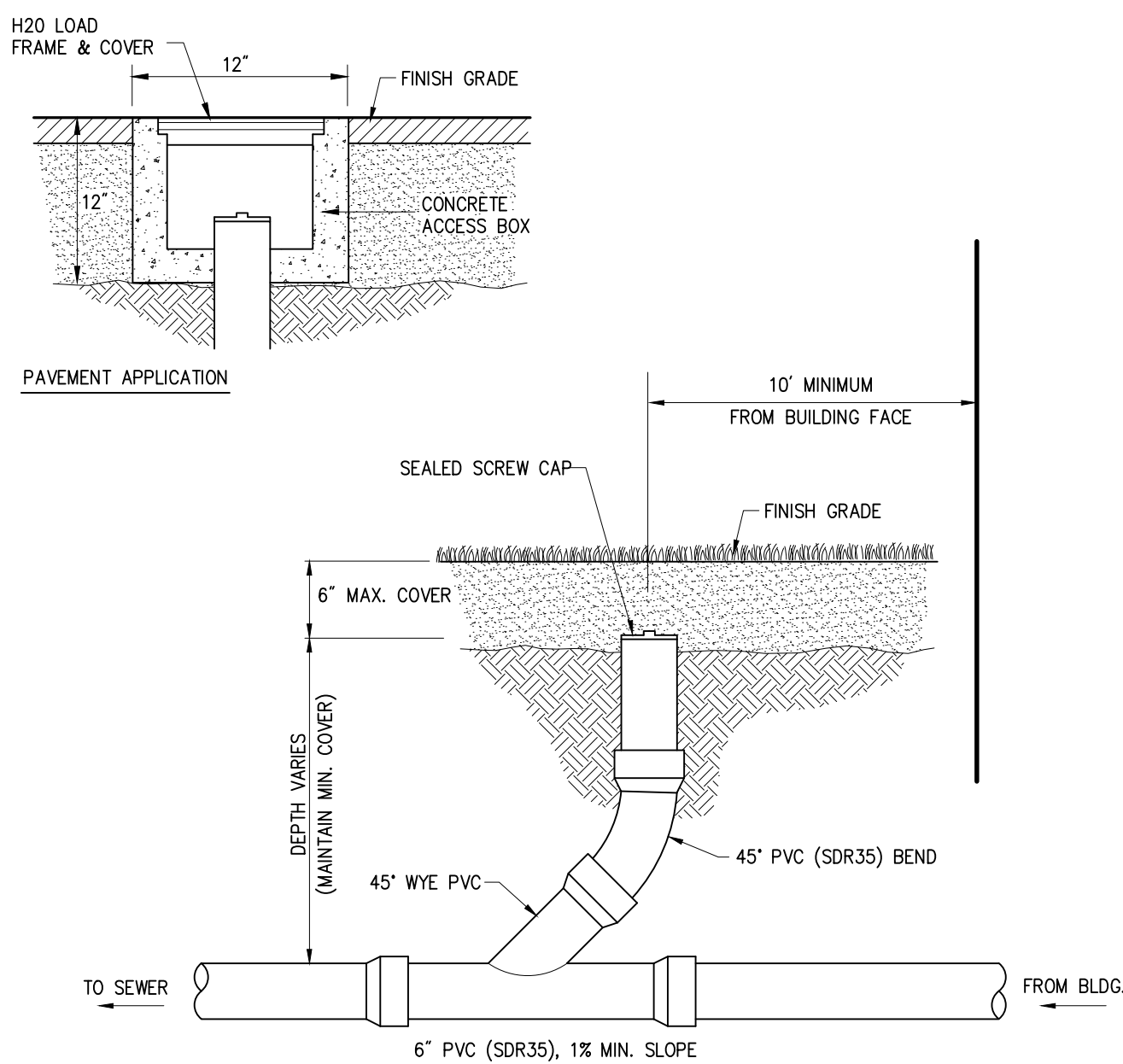
DETAIL # 418 BITUMINOUS CONCRETE PAVEMENT

JDE



DETAIL # 304 WATER SERVICE CONNECTION

JDE

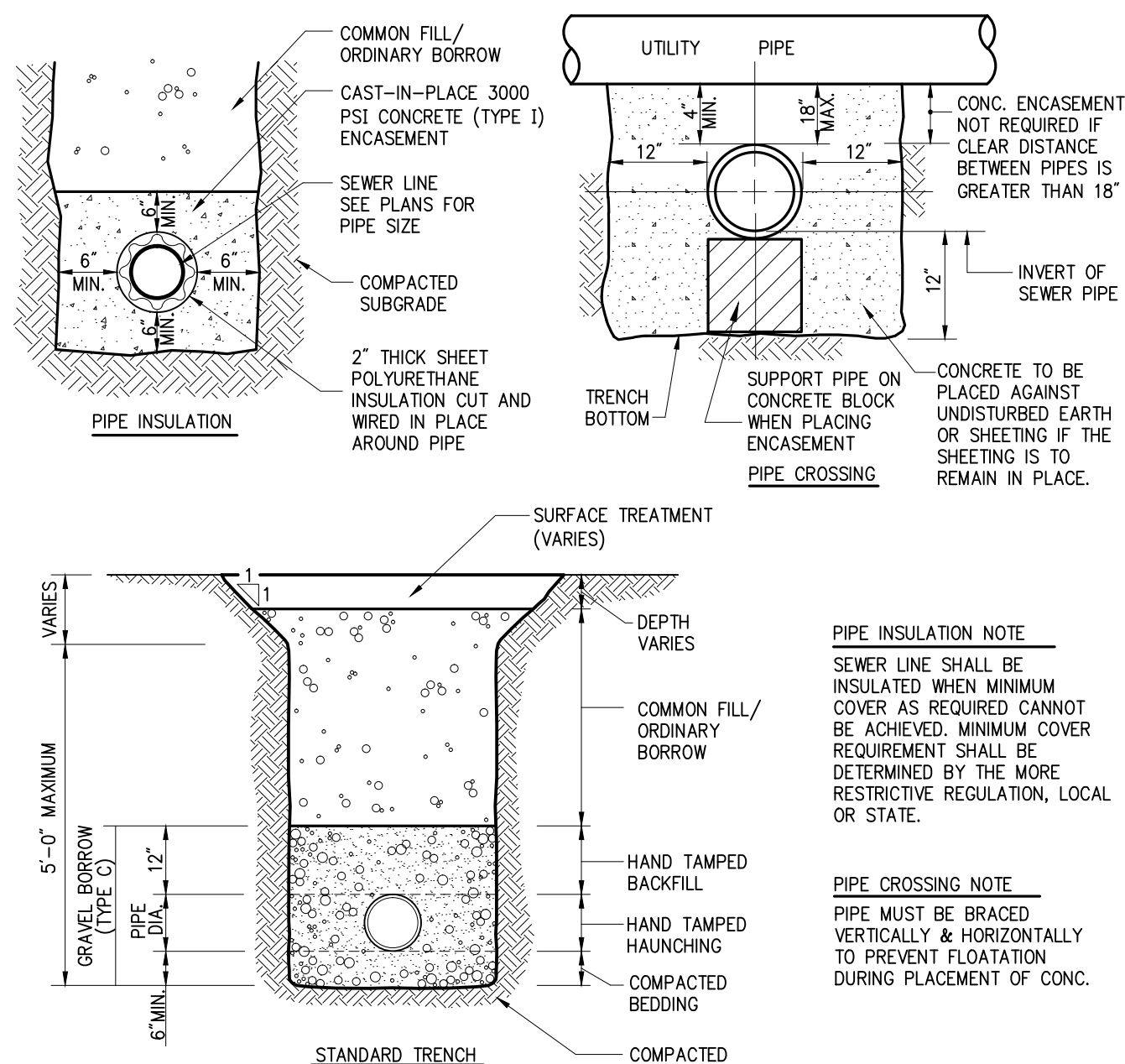


DETAIL # 204 SEWER SERVICE CLEAN-OUT (CO)

JDE

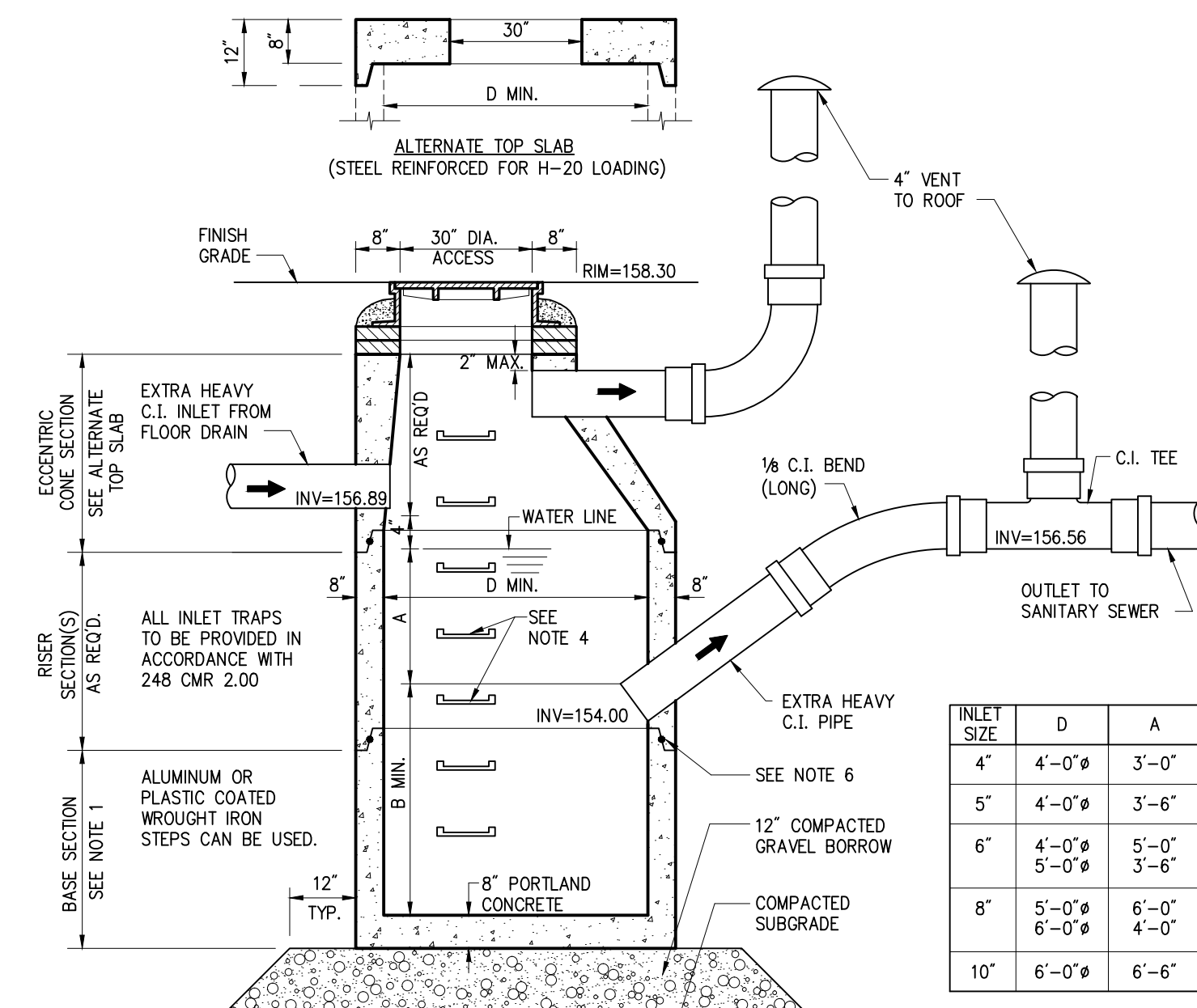
DETAIL # 411 CAPE COD BERM (CCB)

JDE



DETAIL #018 UTILITY TRENCH

JDE



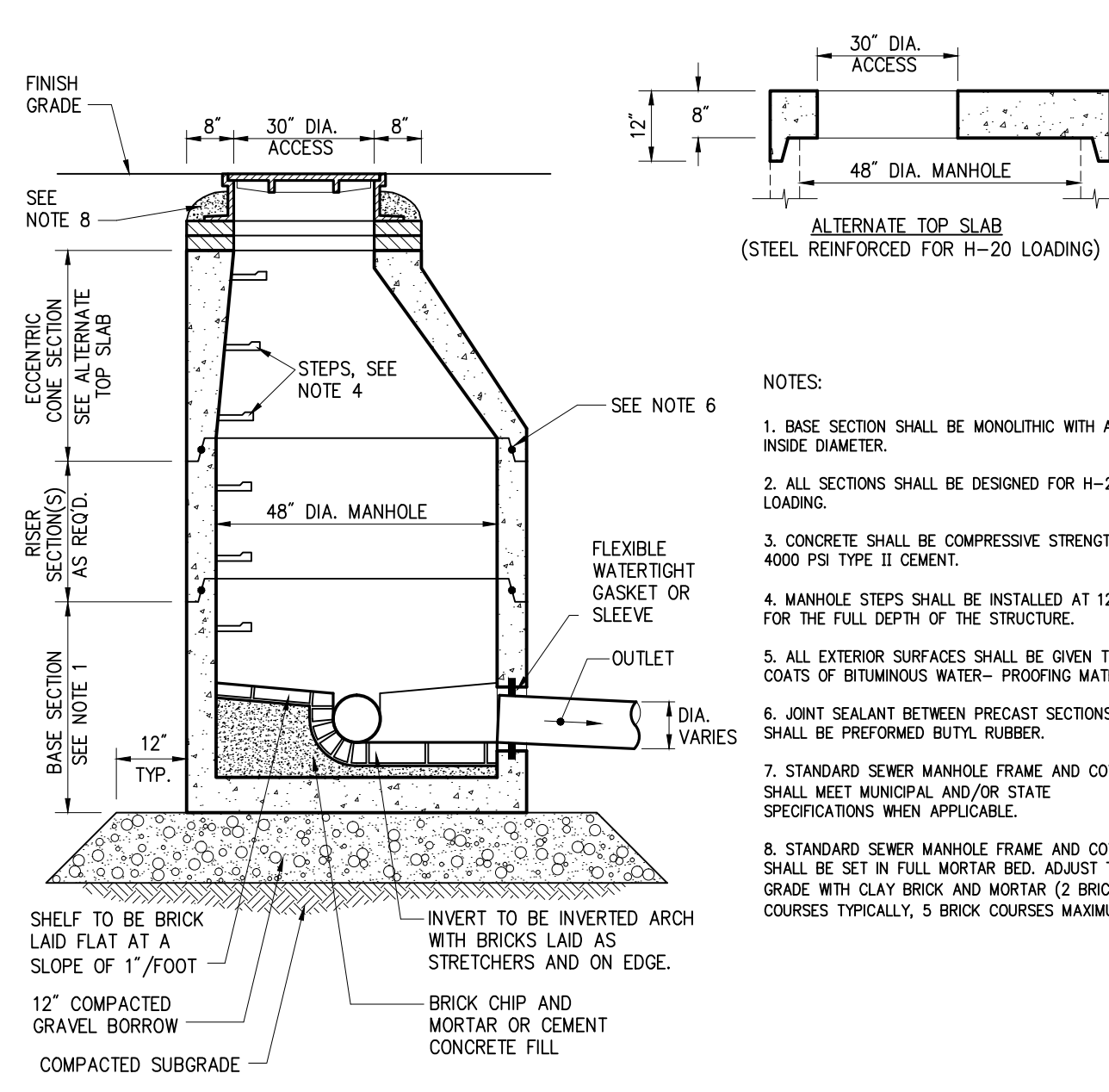
DETAIL # 112

M.W.R.A. OIL AND GAS SEPARATOR

JDE

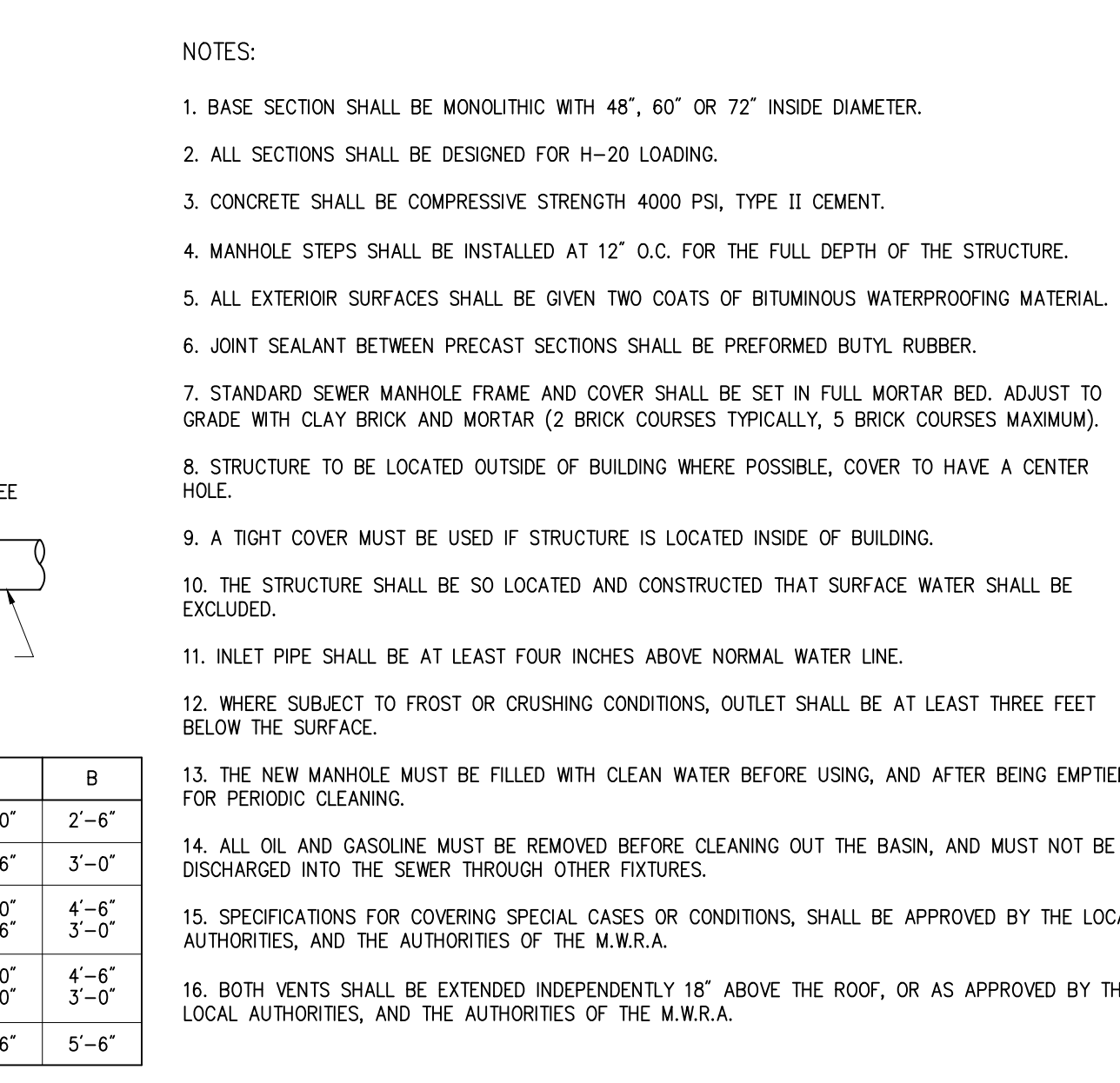
DETAIL # 445 CONCRETE WHEEL STOP

JDE



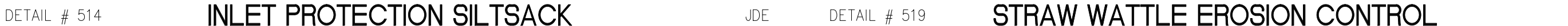
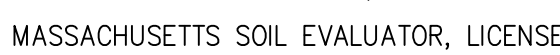
DETAIL # 201 SANITARY SEWER MANHOLE (SMH)

JDE



INLET SIZE	D	A	B
4"	4'-0"	3'-0"	2'-6"
5"	4'-0"	3'-6"	3'-0"
6"	4'-0"	5'-0"	4'-6"
8"	5'-0"	6'-0"	4'-6"
10"	6'-0"	6'-6"	5'-6"



DETAIL # 165

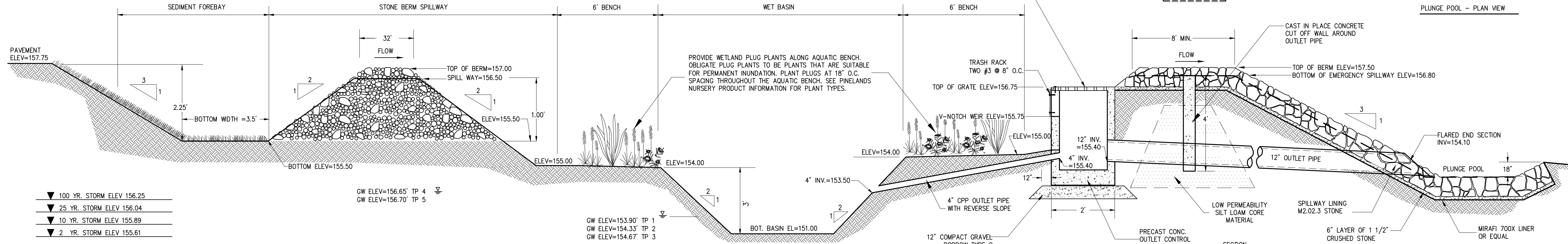


## NOTES:

1. FILL AND BASE FOR DIKES SHALL INSURE WATER TIGHTNESS AND STABILITY.  
2. BASIN SIDE SLOPES AND BOTTOM SHALL BE AMENDED WITH COMPOST PER THE STORMWATER MANAGEMENT REGULATIONS HAND BOOK AND SEEDED AT A RATE OF 2 POUNDS OF RED TOP, 15 POUNDS OF CREEPING RED FESCUE AND 20 POUNDS TALL FESCUE PER ACRE.  
3. THE CONTRACTOR SHALL NOT DISCHARGE SEDIMENT-LADEN WATER TO INFILTRATION BASIN COMPONENTS DURING CONSTRUCTION, INCLUDING DEWATERING OR TEMPORARY SURFACE RUNOFF.

4. ALL CONTRIBUTING AREAS TO THE BASIN SHALL BE FULLY STABILIZED PRIOR TO THE BASIN BEING PLACED INTO SERVICE.  
5. THE CONTRACTOR SHALL PROVIDE PROTECTION ABOVE AND AROUND THE INFILTRATION AREA OF THE BASIN FROM CONSTRUCTION VEHICLE ACTIVITY. NO HEAVY EQUIPMENT SHALL BE ALLOWED ON THE BASIN FLOORS AFTER INSTALLATION. CONTRACTOR SHALL MINIMIZE CONSTRUCTION EQUIPMENT TRAFFIC WITHIN THE BASIN AT ALL TIMES DURING AND AFTER CONSTRUCTION.

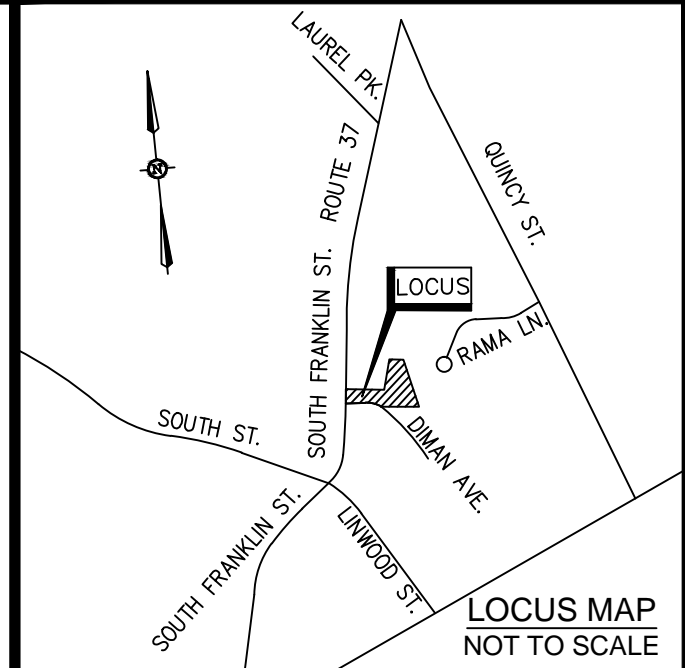
NOTE: INSTALL MONITORING WELL IN THE BASIN FLOOR PER EVERY 5,000 SF OF BASIN FLOOR. MAKE SURE THE MONITORING WELLS EXTEND 20' BENEATH THE BASIN FLOOR OR TO THE LIMITING LAYER, WHICHEVER IS HIGHER. ( 2 REQUIRED FOR THIS BASIN)



DETAIL # 169

## SEDIMENT FOREBAY AND WET BASIN SECTION - BASIN 1 P

JDE



## PERMITTING SET

REVISIONS		
No.	DATE	DESCRIPTION

DRAWN BY: JVV  
CHECKED BY: EPJ / GWD  
DESIGNED BY: GWD / JVV

## CONSTRUCTION DETAILS

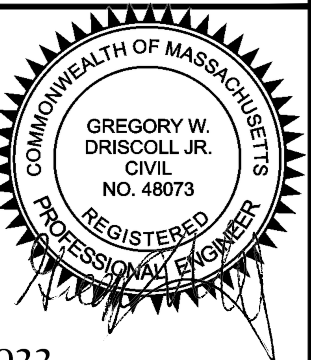
809 S. FRANKLIN STREET  
IN  
HOLBROOK  
(NORFOLK COUNTY)  
MASSACHUSETTS

JUNE 29, 2022

PREPARED FOR:  
JOHNSON SHEET  
METAL CO., INC  
809 S. FRANKLIN  
STREET  
HOLBROOK  
MASSACHUSETTS 02343

**JDE**  
Jacobs Driscoll  
Engineering

50 Oliver Street  
North Easton, Massachusetts 02356  
Phone: 508-928-4400  
www.JacobsDriscoll.com



6/29/2022

SHEET 7 OF 7

JOB NUMBER: 01-2021-020