

### **PLAN**

PROJECT NO.

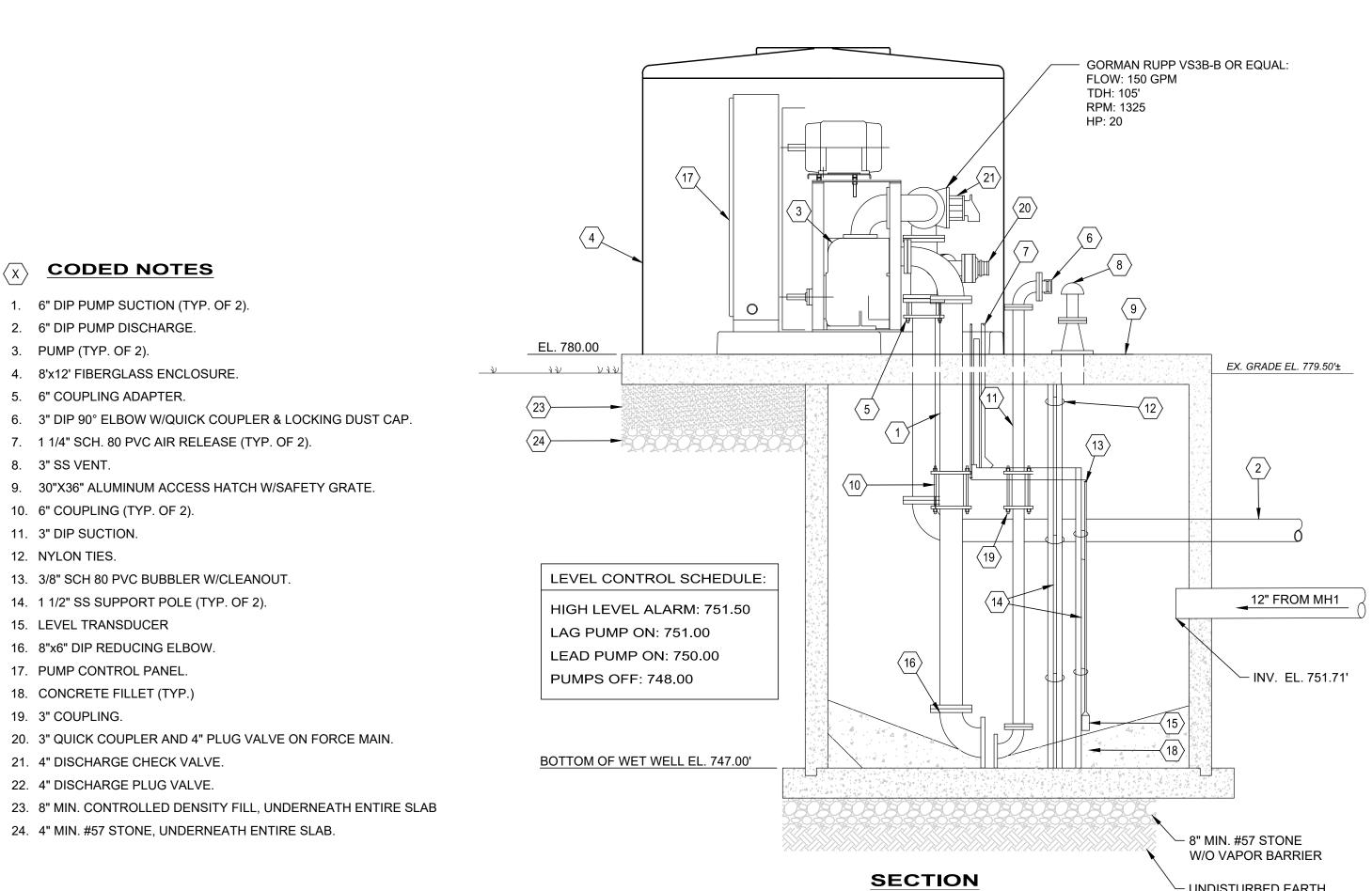
190123

DISCIPLINE **GENERAL** SHEET NAME

LS-PLAN

19

**25** 



CRACKEL LIFT STATION

SCALE: 1/2" = 1'-0"

─ UNDISTURBED EARTH

**CODED NOTES** 

1. 6" DIP PUMP SUCTION (TYP. OF 2).

4. 8'x12' FIBERGLASS ENCLOSURE.

7. 1 1/4" SCH. 80 PVC AIR RELEASE (TYP. OF 2).

13. 3/8" SCH 80 PVC BUBBLER W/CLEANOUT.

14. 1 1/2" SS SUPPORT POLE (TYP. OF 2).

6. 3" DIP 90° ELBOW W/QUICK COUPLER & LOCKING DUST CAP.

9. 30"X36" ALUMINUM ACCESS HATCH W/SAFETY GRATE.

20. 3" QUICK COUPLER AND 4" PLUG VALVE ON FORCE MAIN.

24. 4" MIN. #57 STONE, UNDERNEATH ENTIRE SLAB.

2. 6" DIP PUMP DISCHARGE.

5. 6" COUPLING ADAPTER.

10. 6" COUPLING (TYP. OF 2).

15. LEVEL TRANSDUCER

17. PUMP CONTROL PANEL.

18. CONCRETE FILLET (TYP.)

16. 8"x6" DIP REDUCING ELBOW.

21. 4" DISCHARGE CHECK VALVE. 22. 4" DISCHARGE PLUG VALVE.

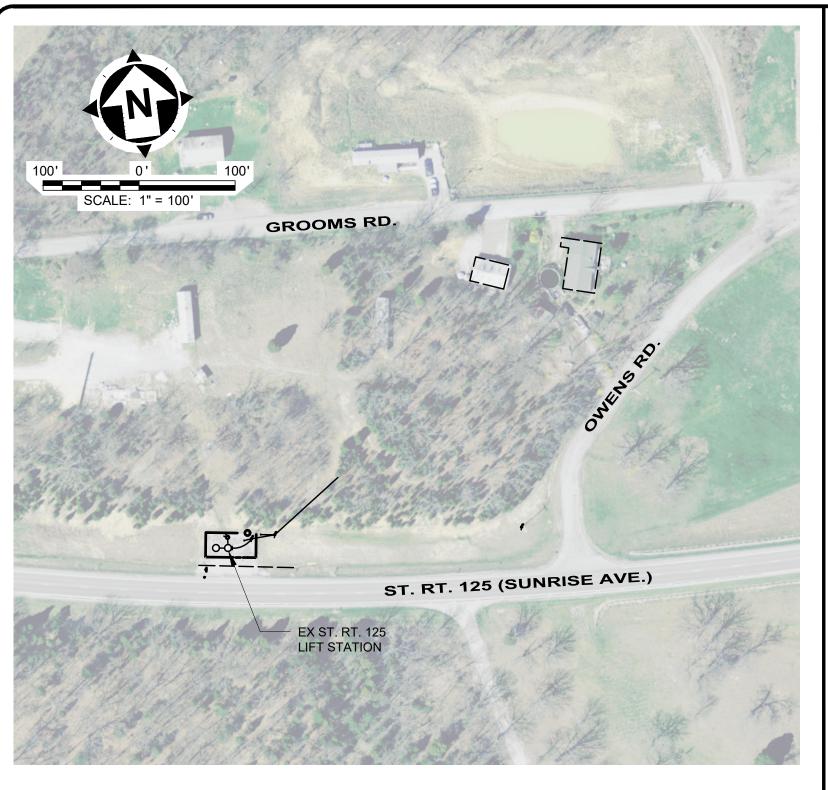
3. PUMP (TYP. OF 2).

8. 3" SS VENT.

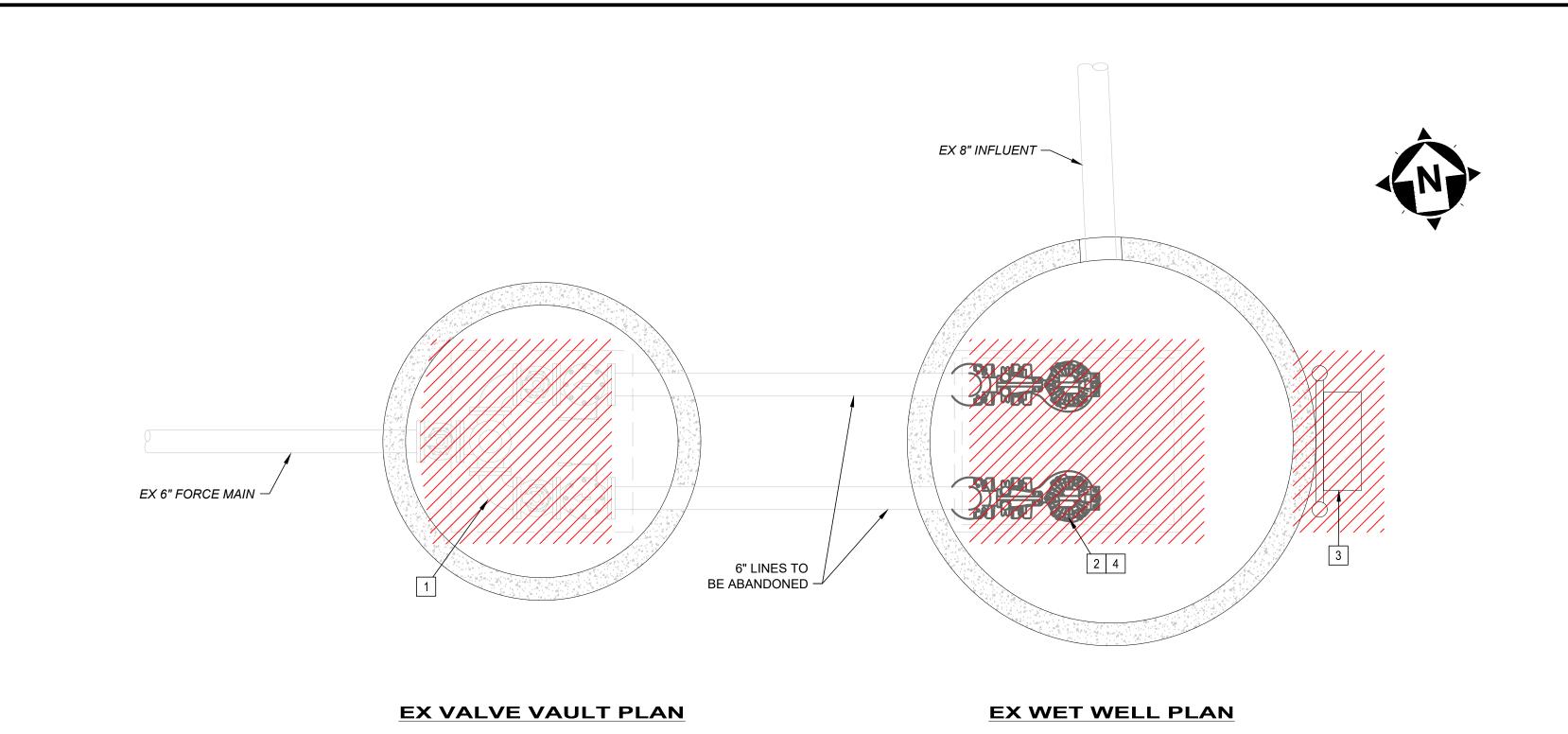
11. 3" DIP SUCTION.

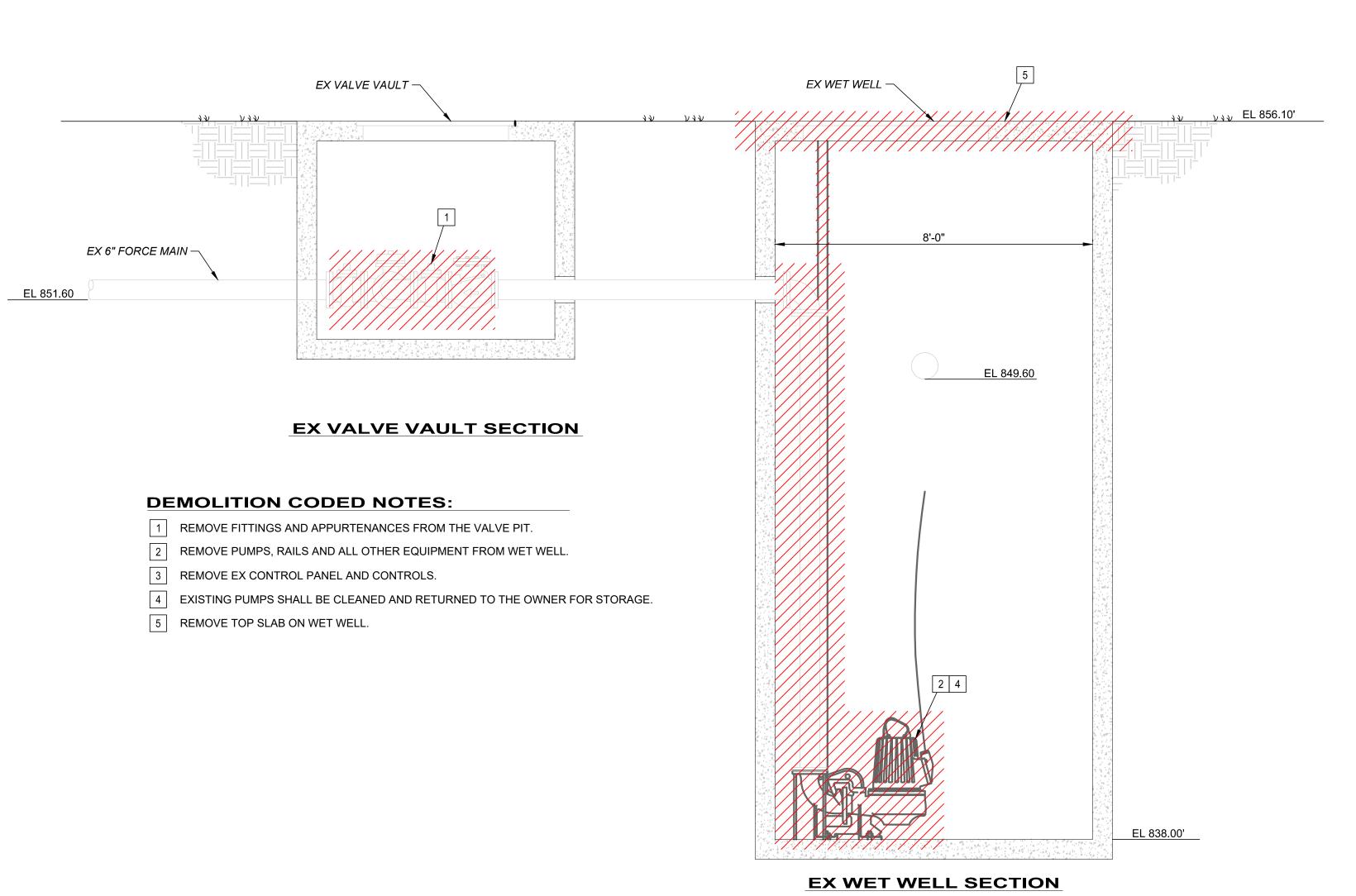
12. NYLON TIES.

19. 3" COUPLING.



ST. RT. 125 LS AREA PLAN
SCALE: 1" = 100'

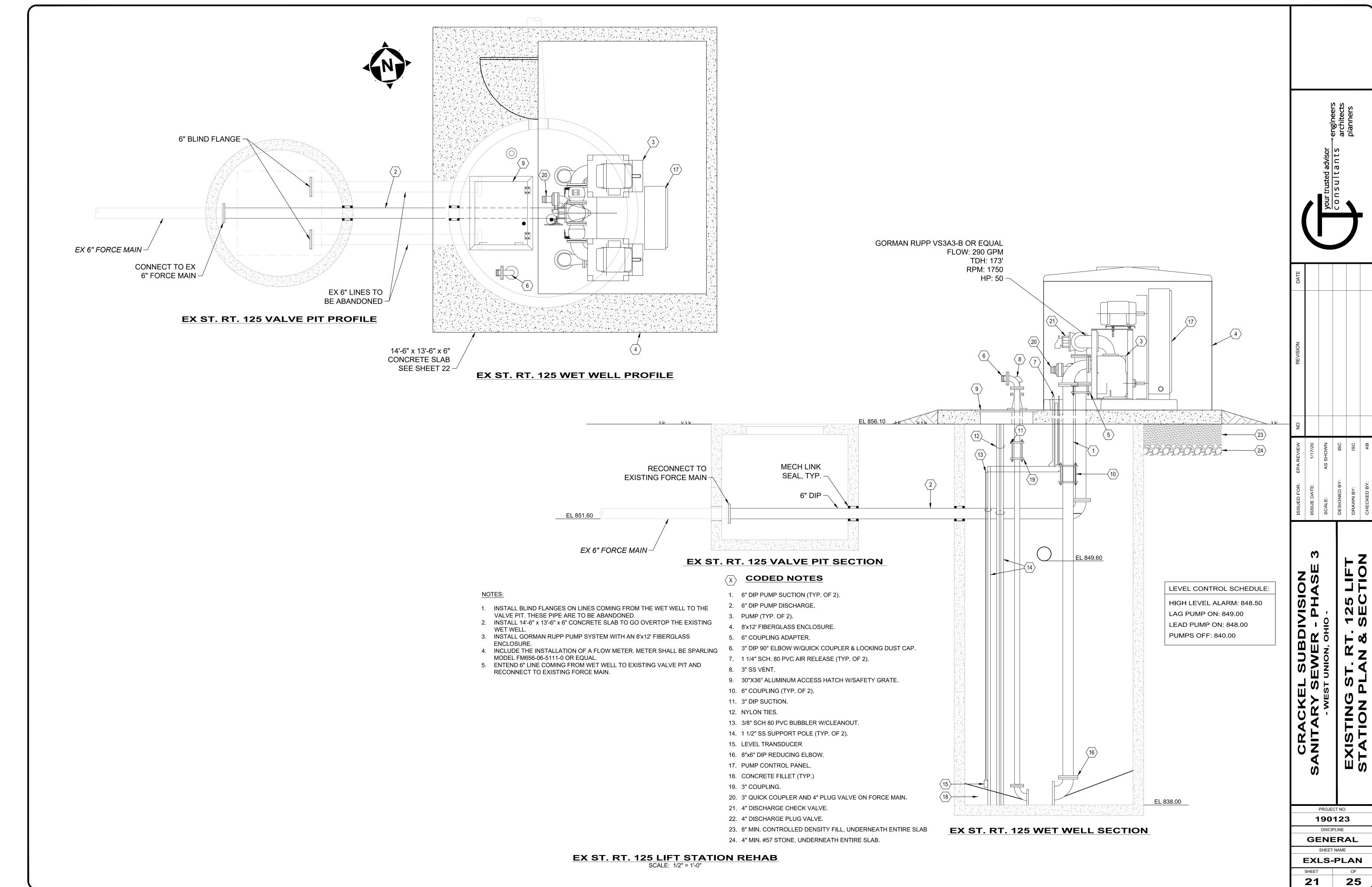


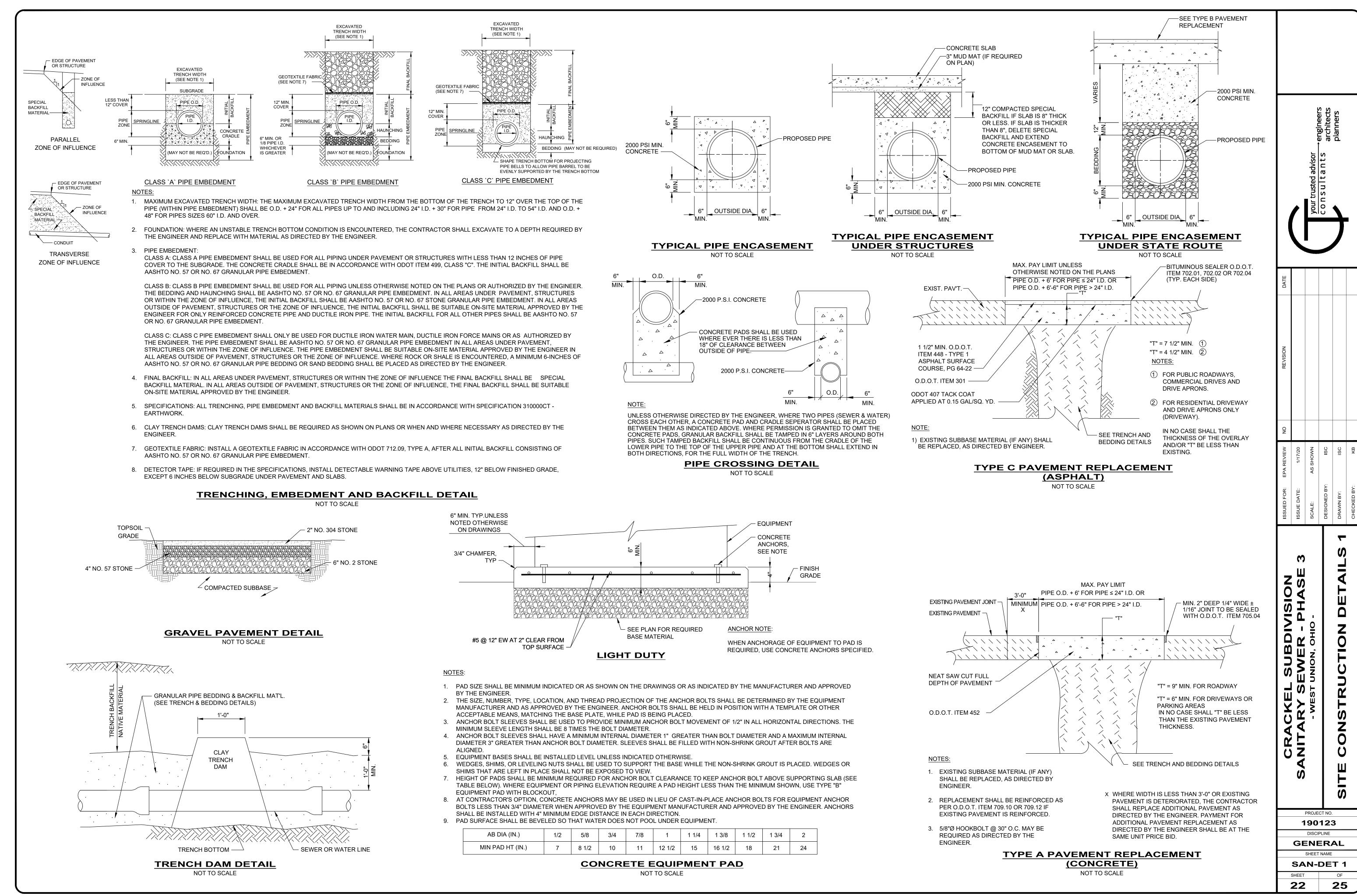


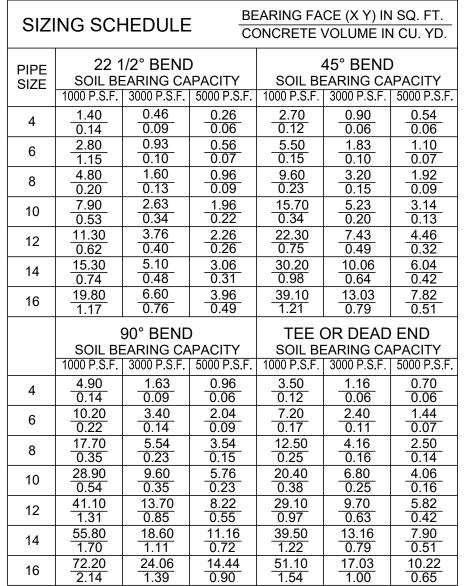
EX ST. RT. 125 LIFT STATION DEMO PROFILE

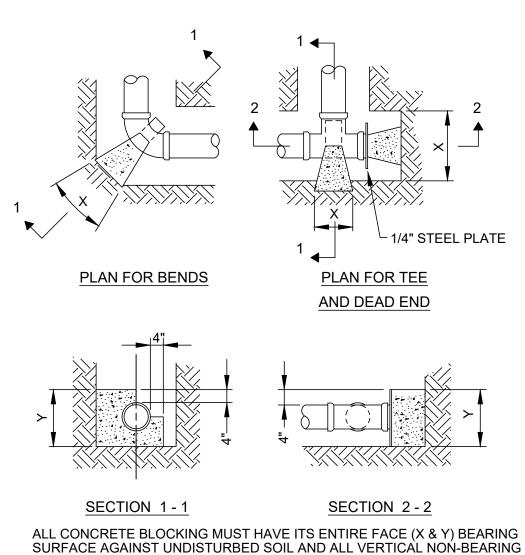
SCALE: 1/2" = 1'-0"

ASE 3         ISSUE DATE:         1/17/20           SCALE:         AS SHOWN           DESIGNED BY:         ISC           CHECKED BY:         KB		CRACKEL SUBDIVISION	ISSUED FOR:	EPA REVIEW	ON	REVISION	DATE
SCALE: AS SHC DESIGNED BY: DRAWN BY: CHECKED BY:	0,		ISSUE DATE:	1/17/20			
125 LIFT DRAWN BY: ISC CHECKED BY: KB			SCALE:	AS SHOWN			
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CHECKED BY:		1251	DRAWN BY:	SC			
		STATION DEMO	CHECKED BY:				









SURFACES SHALL BE FORMED SO AS TO KEEP CONCRETE FROM JOINTS.

HAMMER OF 240 PSI AND FOR BEARING CAPACITY FOR SAND - 1000 PSF,

SAND AND GRAVEL - 3000 PSF, SHALE - 5000 PSF.

BLOCKING DESIGN BASED ON COMBINED WORKING PRESSURE PLUS WATER

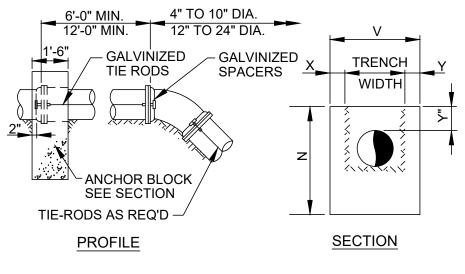


TABLE OF DIMENSINS - OVER BENDS

χ | γ | η | N | C.Y. | NO. & SIZE

1'-0" | 4'-3" | 1'-0" | 2'-4" | .55 | 2-3/4" DIA.

1'-0" | 4'-6" | 1'-0" | 2'-6" | .61 | 2-3/4" DIA.

1'-0" | 4'-8" | 1'-0" | 2'-8" | .67 | 2-3/4" DIA. 1'-0" | 4'-10" | 1'-0" | 2'-10" | .72 | 4-3/4" DIA.

1'-0" | 5'-0" | 1'-0" | 3'-0" | .78 | 4-3/4" DIA.

1'-0" 5'-2" 1'-0" 3'-3" .87 6-3/4" DIA.

16" | 1'-0" | 5'-4" | 1'-0" | 4'-4" | 1.09 | 8-3/4" DIA. 18" | 1'-0" | 5'-6" | 1'-0" | 4'-7" | 1.34 | 8-3/4" DIA.

1. TABLE PORTION FOR NO. AND SIZE OF TIE RODS

SUCH REINFORCEMENT.

IS APPLICABLE TO ALL TIE-IN PIPING REQUIRING

2. USE OF ANCHOR BLOCKS AND OR THRUST BLOCKS

NEEDED ONLY IF A TIE-RODDED EXTENSION PIECE

EQUALS OR EXCEEDS A STANDARD PIPE LENGTH.

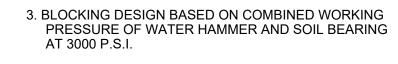
11 1/4°, 22 1/2°, & 45° BENDS

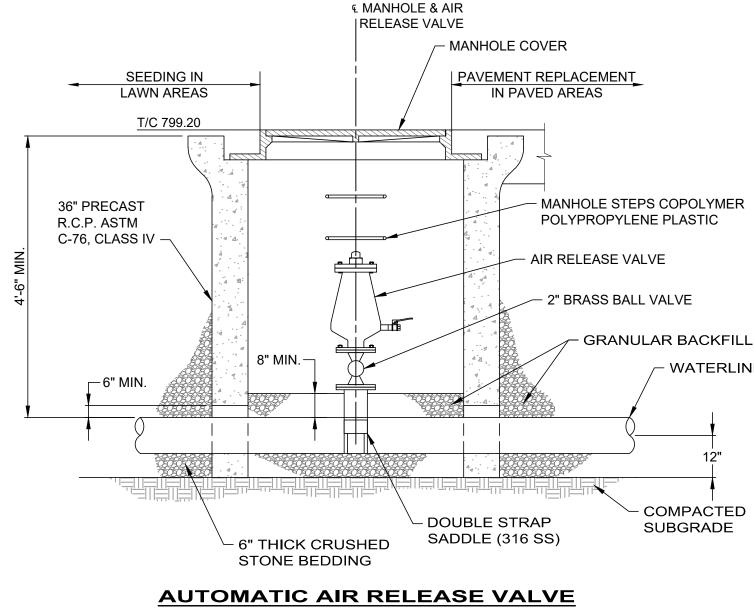
11 1/4° BEND-NO BLK'G. REQ'D. 22 1/2° BEND-2 #4 EQ. SPC'D. 45° BEND-#4 @ 6" C/C **THRUST** BLOCKING **PROFILE** SECTION

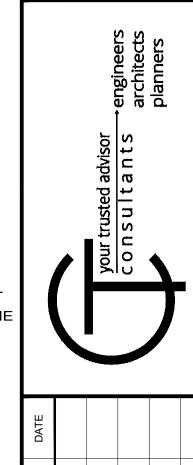
REIN'F. FOR SAG BENDS

TABEL OF DIMENSIONS - SAG BENDS

PIPE	22	1/2° BE	ND	45° BEND		
SIZE	Α	W	C.Y.	Α	W	C.Y.
4"	_	_	_			_
6"	_			O'-8"	1'-8"	0.05
8"	0'-8"	1'-4"	0.04	0'-9"	2'-8"	0.10
10"	0'-8"	2'-0"	0.06	1'-2"	2'-10"	0.16
12"	0'-8"	2'-4"	0.08	1'-7"	3'-0"	0.24
14"	0'-8"	2'-9"	0.09	1'-8"	3'-2"	0.28
16"	0'-9"	3'-4"	0.14	2'-3"	3'-4"	0.41
18"	1'-0"	3'-6"	0.20	2'-9"	3'-6"	0.54





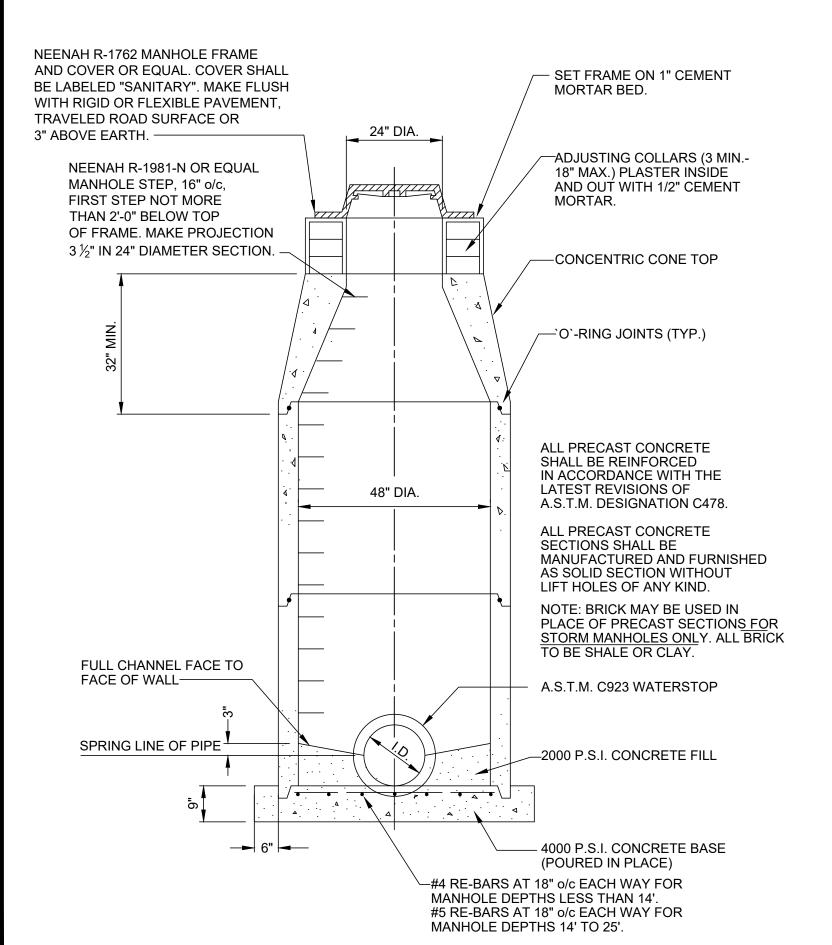


### THRUST BLOCKING DETAIL NOT TO SCALE

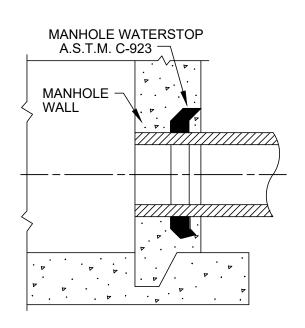
### **OVER & SAG BEND THRUST BLOCKING DETAILS**

### (CONFIGURATION - A) NOT TO SCALE NOT TO SCALE

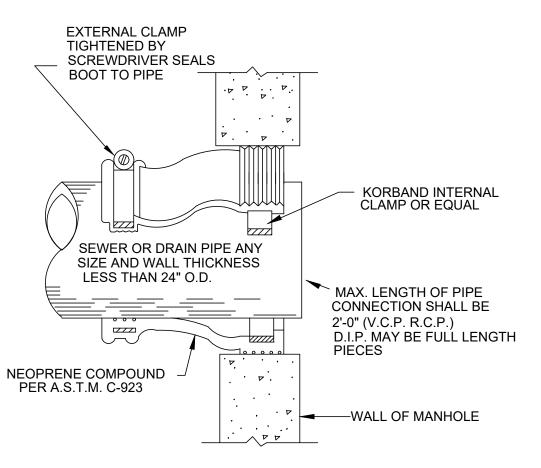
**PRECAST** 



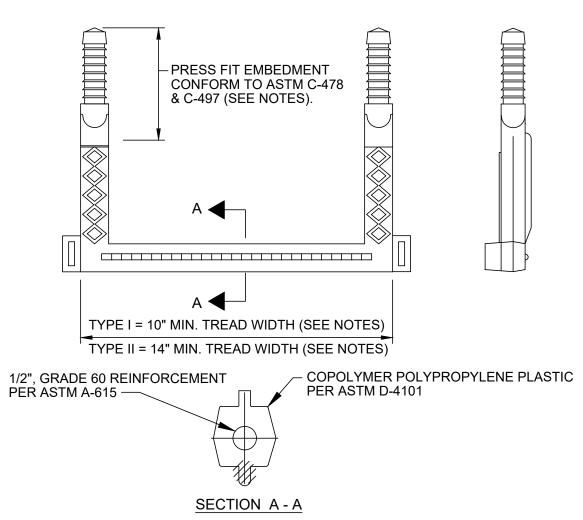




PIPE CONNECTION AT MANHOLE NOT TO SCALE

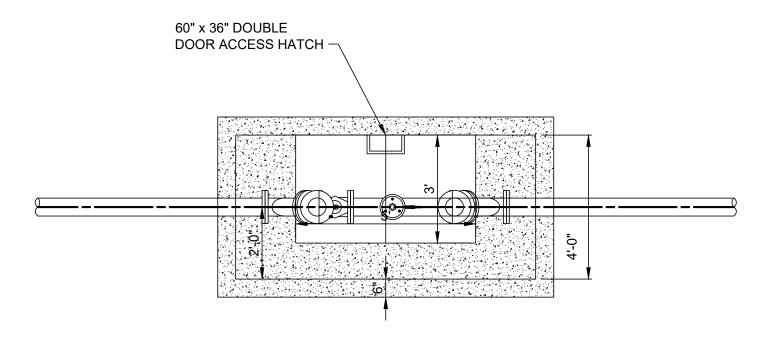


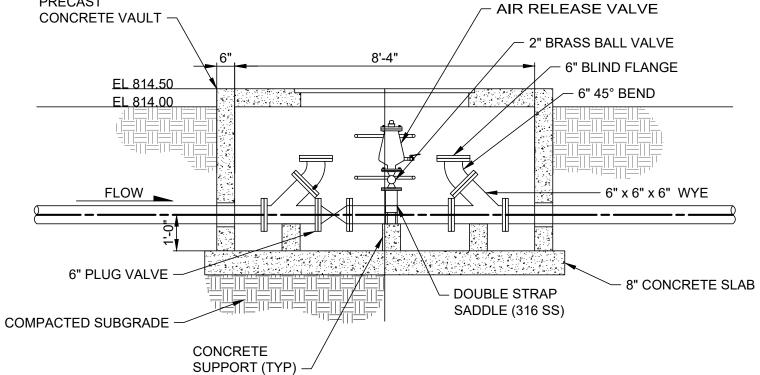
SANITARY SEWER FLEXIBLE GASKET DETAIL NOT TO SCALE



- 1.) USE TYPE I STEP FOR MANHOLES OR CIRCULAR STRUCTURES OF 5'-0" DIA. OR LESS - USE 16" C/C SPACING.
- 2.) USE TYPE II STEP FOR FLAT WALL STRUCTURES SUCH AS VAULTS, WELLS, ETC. OR CIRCULAR STRUCTURES OVER 5'-0" DIA. -USE 12" C/C SPACING.
- MOUNTING REQUIREMENTS SHALL BE IN ACCORDANCE WITH MFR'S RECOMMENDATIONS.

TYPICAL MANHOLE STEP DETAIL NOT TO SCALE





**AUTOMATIC AIR RELEASE VALVE W/ C/O** (CONFIGURATION B) NOT TO SCALE

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	SANITARY SEWER - PHASE 3	ISSNE
PROJE	- WEST UNION, OHIO -	SCAL
CT NO.		DESIG
	SITE CONSTRUCTION DETAILS 2	DRAV

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DISCIPLINE

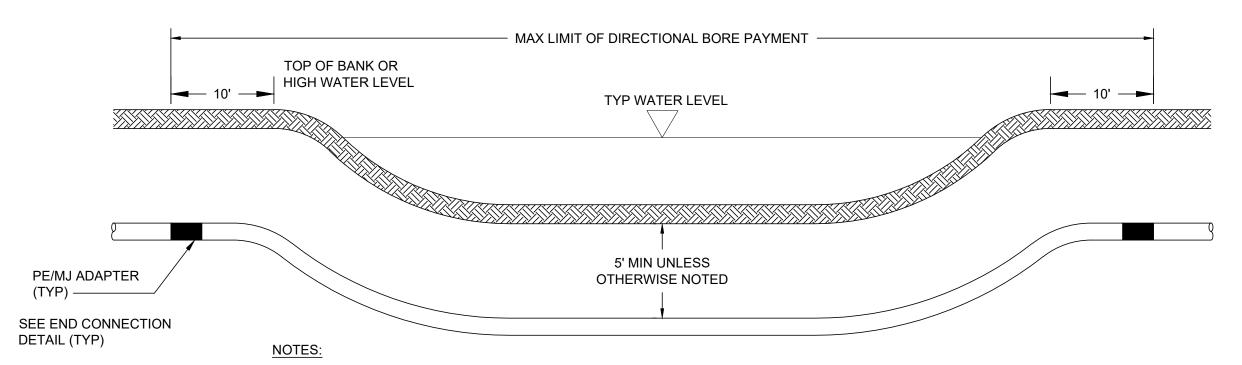
**GENERAL** 

SHEET NAME SAN-DET 2

**25** 

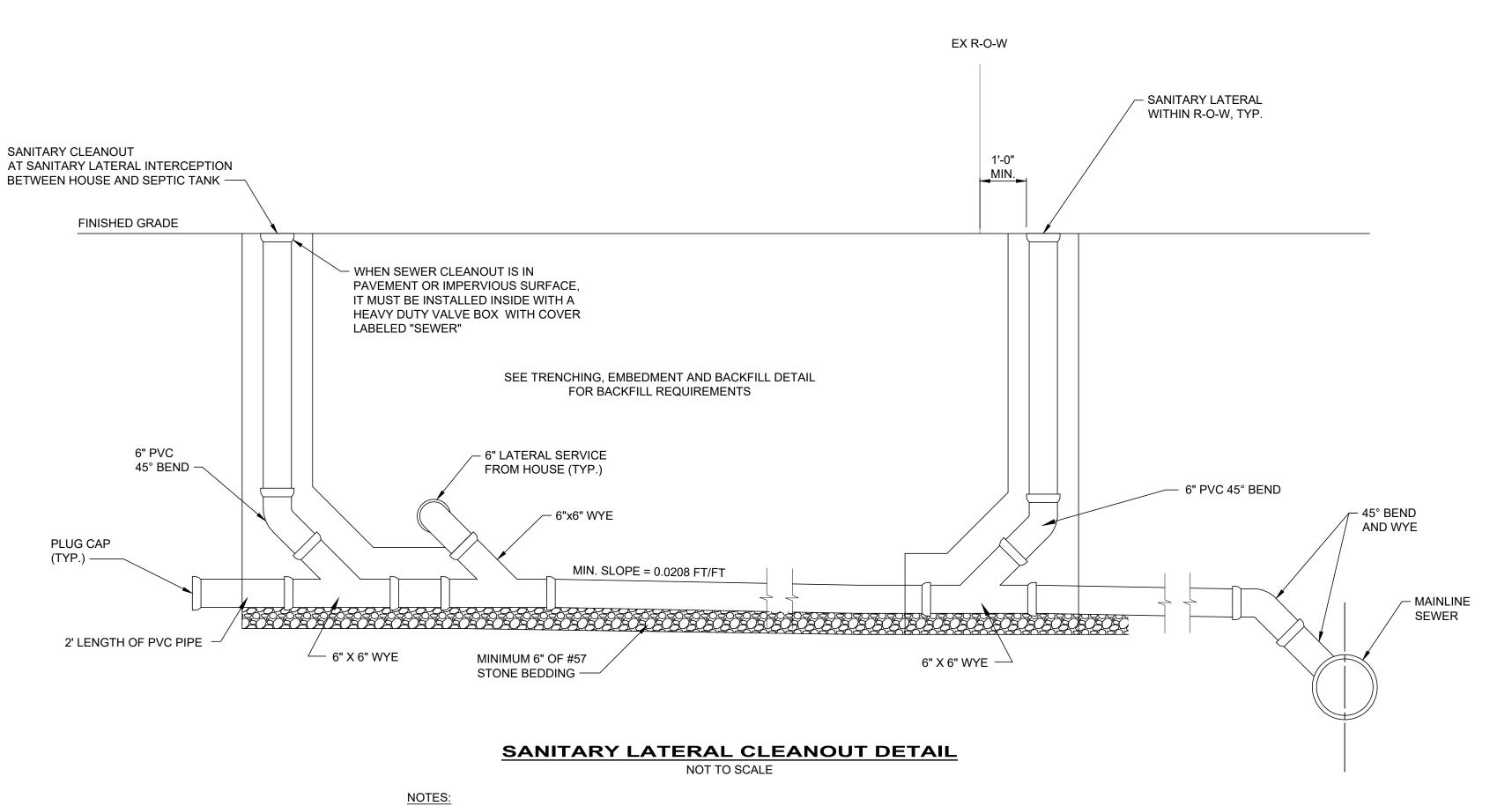
SHEET

23



- 1. WHERE DIRECTIONAL BORE INCORPORATES RESTRAINED JOINT PVC PIPE, OMIT PE/MJ ADAPTER.
- 2. DIRECTIONAL BORE SHALL INCORPORATE TWO INSULATED NO 12 GAUGE, SOLID, COPPER WIRES INSTALLED WITH THE PIPE FOR LOCATING PURPOSES. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

# HORIZONTAL DIRECTIONAL DRILLING @ STREAM/CREEK CROSSING NOT TO SCALE



1. CONCRETE ENCASEMENT AND BLOCKING REQUIRED IF DEPTH OF CONNECTION IS 12" OR GREATER.

4. INSTALLATIONS BY CONTRACTOR BEYOND THE PROPERTY LINE WILL REQUIRE AN INSPECTION FROM

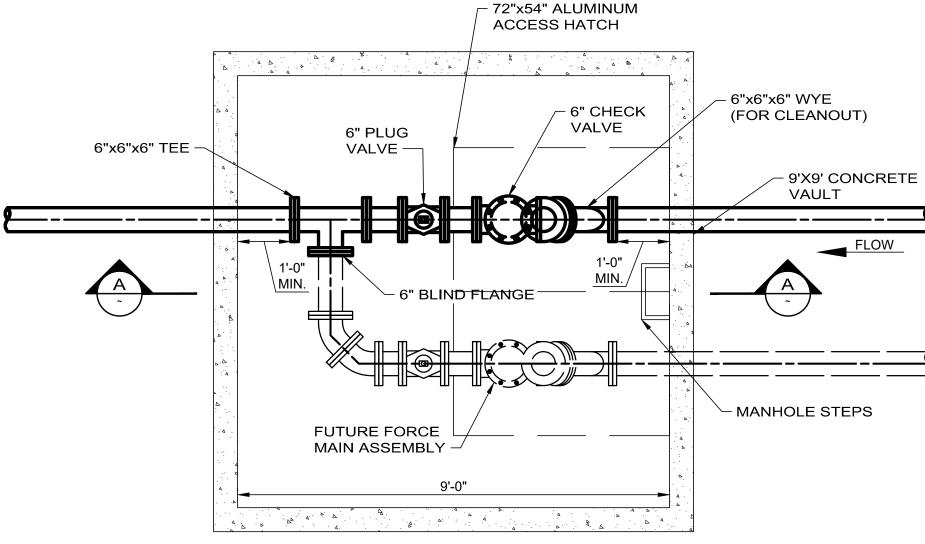
3. FOR CLEANOUTS THAT TERMINATE IN PAVED AREAS, A FRAME AND COVER SHALL BE USED IN

THE OWNER OR ENGINEER. DO NOT BACKFILL TRENCH PRIOR TO INSPECTION.

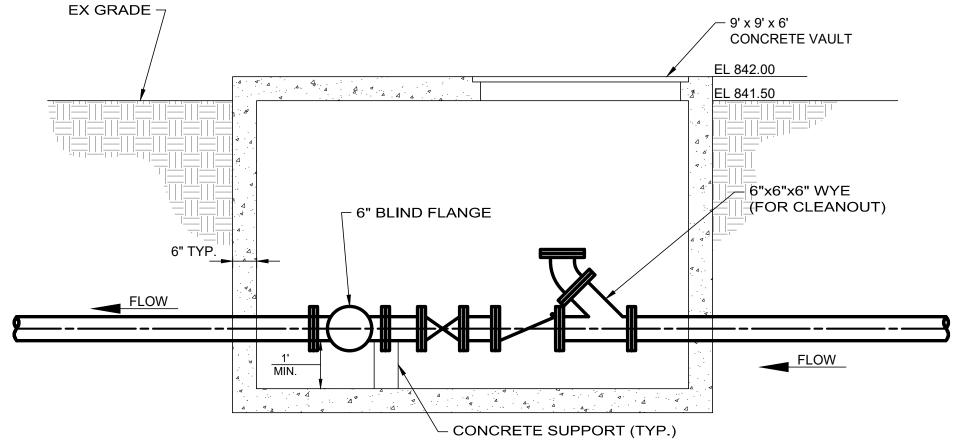
2. EACH SANITARY LATERAL MUST BE IN SEPARATE TRENCHES

ADDITION TO MANUFACTURES CAP/PLUG

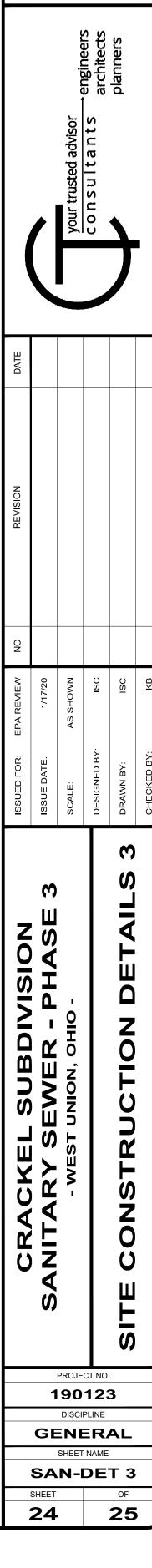


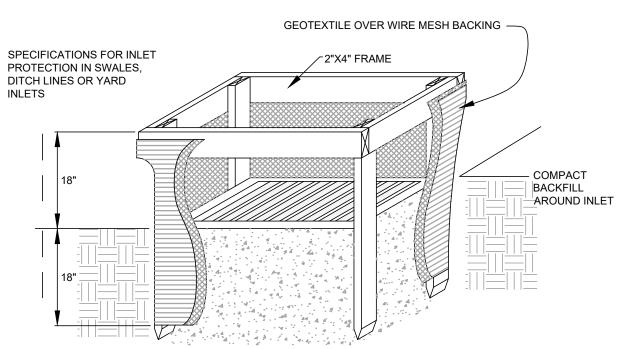


## FORCE MAIN VAULT 1/2" = 1'-0"









### SPECIFICATIONS FOR INLET PROTECTION IN SWALES, DITCH LINES OR YARD INLETS

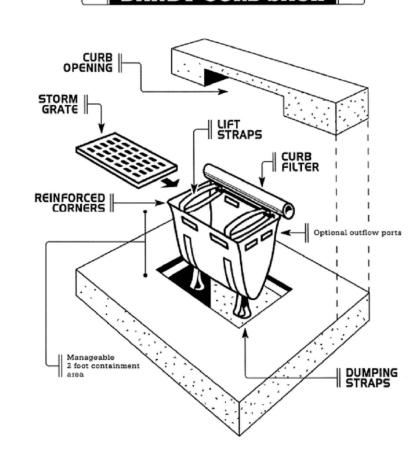
- INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.
- 2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.
- 3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-BY-4-INCH CONSTRUCTION-GRADE LUMBER. THE 2-BY-4-INCH POSTS SHALL BE DRIVEN 18 INCHES INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2-BY-4-INCH FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
- 4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
- 5. GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
- 6. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6 INCH LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
- 7. A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.

# N.T.S. 70' MIN. 8" AASHTO No. 1 STONE PLAN VIEW N.T.S. PROFILE N.T.S. CULVERT AS NEEDED

- 1. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
- MAINTENANCE TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OF TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- 3. BEDDING A GEOTEXTILE FABRIC SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST 200 LBS. AND A MULLEN BURST STRENGTH OF AT LEAST 190 LBS.

## ROCK CONSTRUCTION ENTRANCE

### ► DANDY CURB SACK™ <



### SILT SACK

### SILT FENCE SPECIFICATIONS

SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.

2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES AND DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.

3. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.

4. WHERE AVAILABLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.

5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.

6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

7. THE SILT FENCE SHALL BE PLACED IN A TRENCH A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE MACHINE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.

8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE SO THAT 8 INCHES OF THE CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 4 INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.

9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.

10. MAINTENANCE - SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE:

1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED,
2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR

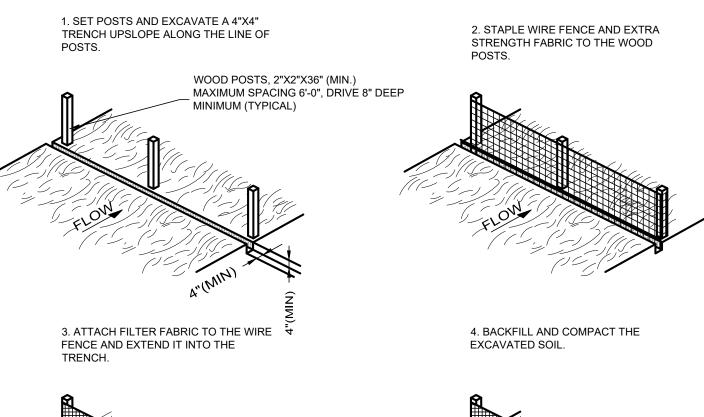
CRITERIA FOR SILT FENCE MATERIALS

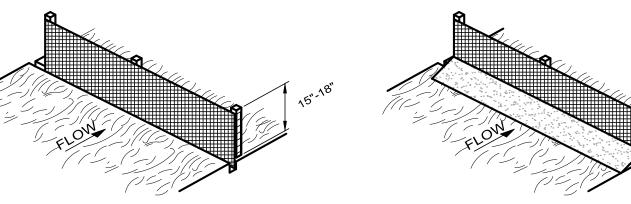
1. FENCE POSTS- THE LENGTH SHALL BE A MINIMUM OF 36" LONG. WOOD POSTS SHALL BE 2"X2" HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS

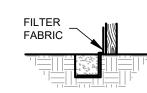
3) OTHER PRACTICES SHALL BE INSTALLED.

SHALL BE 6 FEET.

2. SILT FENCE SHALL BE ODOT TYPE C GEOTEXTILE FABRIC OR AS DESCRIBED BY THE CHART BELOW:

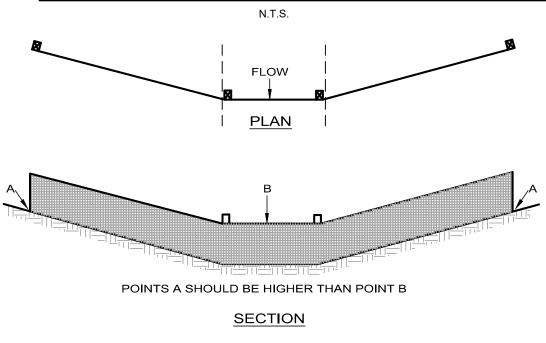






EXTENSION OF FABRIC AND WIRE INTO

# TYPICAL DRAINAGE BARRIER SEDIMENT FENCE DETAIL



# PROPER PLACEMENT OF A FILTER BARRIER IN A DRAINAGE WAY

### FABRIC PROPERTIES

 MAXIMUM TENSILE STRENGTH.
 120 lbs.

 MAXIMUM ELONGATION AT 60 lbs.
 50%

 MAXIMUM PUNCTURE STRENGTH.
 .50 lbs.

 MINIMUM TEAR STRENGTH.
 .40 lbs.

 MINIMUM BURST STRENGTH.
 .200 psi.

 APPARENT OPENING SIZE.
 ≤ 0.84 mm

 MINIMUM PERMITTIVITY.
 .1x10² sec.¹

 ULTRAVIOLET EXPOSURE STRENGTH RETENTION.
 70%

### **MAINTENANCE NOTES**

ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED BY THE OWNER'S REPRESENTATIVE WEEKLY AND WITHIN 24 HOURS AFTER EACH RAINFALL TO ASSURE THAT THE MEASURES ARE FUNCTIONING ADEQUATELY. SEDIMENT THAT IS COLLECTED WILL BE DISTRIBUTED ON THE PROTECTED PORTION OF THE SITE AND STABILIZED. ALL STOCKPILES OF EARTH AND TOPSOIL WILL BE PROTECTED WITH TEMPORARY SEEDING OR OTHER MEANS TO PREVENT EROSION.

CONSTRUCTION ROAD STABILIZATION / CONSTRUCTION ENTRANCES (CRS)

BOTH TEMPORARY AND PERMANENT ROADS AND PARKING AREAS MAY REQUIRE PERIODIC TOP DRESSING WITH NEW GRAVEL. SEEDED AREAS ADJACENT TO THE ROADS AND PARKING AREAS SHOULD BE CHECKED PERIODICALLY TO ENSURE THAT A VIGOROUS STAND OF VEGETATION IS MAINTAINED. ROADSIDE DITCHES AND OTHER DRAINAGE STRUCTURES SHOULD BE CHECKED REGULARLY TO ENSURE THAT THEY DO NOT BECOME CLOGGED WITH SILT OR OTHER DEBRIS.

### SILT FENCE (SF

SILT FENCE AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

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 IS STILL NEEDED, THE FABRIC SHALL BE REPLACED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN-PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

### DIVERSION (D

BARE AND VEGETATED DIVERSION CHANNELS SHOULD BE INSPECTED REGULARLY TO CHECK FOR POINTS OF SCOUR OR BANK FAILURE; RUBBISH OR CHANNEL OBSTRUCTION; RODENT HOLES, BREACHING OR SETTLING OF THE RIDGE; EXCESSIVE WEAR FROM PEDESTRIAN OR CONSTRUCTION TRAFFIC. REPAIR DAMAGE AND REMOVE DEPOSITS OR SEDIMENT FROM THE DIVERSION CHANNEL AND VEGETATIVE FILTER STRIP. RESEEDING AND FERTILIZING SHOULD BE DONE AS NEEDED.

### **GENERAL LAND CONSERVATION NOTES**

PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO THE DISTURBED AREAS ACCORDING TO TABLE 1 AND/OR TABLE 2 AFTER FINAL/ROUGH GRADE IS REACHED ON ANY PORTION OF THE SITE.

ALL STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING FOR ALL SITES.

ALL STORM SEWER, SANITARY SEWER, WATER MAIN AND SERVICE TRENCHES SHALL BE MULCHED AND SEEDED WITHIN 14 DAYS AFTER BACKFILL, IF INSTALLATION IS THROUGH STABILIZED AREAS.

ALL TEMPORARY DIVERSIONS, SEDIMENT BASIN EMBANKMENTS AND EARTH STOCKPILES SHALL BE SEEDED AND MULCHED FOR TEMPORARY VEGETATIVE COVER WITHIN 7 DAYS AFTER GRADING. STRAW, HAY MULCH OR EQUIVALENT IS REQUIRED.

ALL STORM SEWER INLETS SHALL BE PROTECTED BY SEDIMENT TRAPS (INLET PROTECTION) WHICH WILL BE MAINTAINED AND MODIFIED AS REQUIRED AS CONSTRUCTION PROGRESSES. SEDIMENT TRAPS ARE TO BE REMOVED AFTER SEEDING AND MULCHING IS ESTABLISHED.

ANY DISTURBED AREA NOT STABILIZED WITH SEEDING, SODDING, PAVING OR BUILT ON BY NOVEMBER 1ST, OR AREAS DISTURBED AFTER THAT DATE, SHALL BE MULCHED IMMEDIATELY WITH HAY OR STRAW AT THE RATE OF 2 TONS PER ACRE AND OVER-SEEDED BY APRIL 15TH.

AT THE COMPLETION OF CONSTRUCTION, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALI DENUDED AREAS SHALL BE STABILIZED.

ADDITIONAL EROSION AND SEDIMENTATION CONTROL MANAGEMENT PRACTICES MAY BE REQUIRED DUE TO UNFORESEEN CONDITIONS. THESE ADDITIONAL ITEMS SHALL BE INSTALLED AS DIRECTED BY THE VILLAGE OF WEST UNION ENGINEER.

### **TABLE 1: PERMANENT STABILIZATION**

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A STREAM AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

### **TABLE 2: TEMPORARY STABILIZATION**

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITHIN 50 FEET OF A STREAM AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 21 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 21 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A STREAM	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA  FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S)
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER

WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED

### **CONSTRUCTION NOTES**

- 1. THE OWNER WILL PROVIDE ON-SITE PLACE FOR EXCESS DIRT PERMANENT DISPOSAL
- ALL CONCRETE DEBRIS SHALL BE BROKEN DOWN TO MANAGEABLE PIECES FOR ON-SITE DISPOSAL PER OWNER DIRECTIONS.

### **ENVIRONMENTAL PROTECTION NOTES**

EROSION AND SEDIMENTATION CONTROL PRACTICES MUST BE INSTALLED TO NATURAL RESOURCES CONSERVATION SERVICE OR EQUIVALENT STANDARDS AND SPECIFICATIONS FOR PARTICULAR TECHNIQUES. THE PRACTICES ARE TO BE MAINTAINED IN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION AND UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.

PROPERLY INSTALLED SEDIMENT CONTROL BARRIERS (E.G., SILT FENCES, STRAW BALES, ETC.) MUST BE LOCATED ON SLOPES, ALONG STREAMS AND DRAINAGE WAYS, AROUND DRAINAGE STRUCTURES, AND ANYWHERE ELSE THAT EXPOSED SOIL COULD RUN OFF AND CREATE SEDIMENT PROBLEMS. ALL SEDIMENT CONTROL MEASURES, (INCLUDING SEDIMENT BASINS AND DIVERSION CHANNELS), MUST BE IN PLACE PRIOR TO STARTING CONSTRUCTION.

STAGING AREAS MUST NOT BE SITED IN LOCATIONS THAT REQUIRE EXCESSIVE CLEARING OR THAT ARE CLOSE TO STREAM BANKS, WETLANDS OR OTHER WATER RESOURCES. IF THIS SITUATION IS UNAVOIDABLE, APPROVAL OF THE STAGING AREA BY OHIO EPA, DIVISION OF ENVIRONMENTAL AND FINANCIAL ASSISTANCE IF NECESSARY.

EXISTING TOPSOIL THAT IS TO BE REUSED MUST BE STOCKPILED AND REPLACED UPON FINAL GRADING. STOCKPILED TOPSOIL MUST BE PROTECTED WITH SILT BARRIERS AND TEMPORARY SEEDING OR A COVERING SUCH AS ANCHORED STRAW MULCH.

AS CONSTRUCTION IS COMPLETED, PERMANENT STABILIZE EACH DISTRIBUTED AREA WITH PERENNIAL VEGETATION. IF FINAL GRADING AND SEEDING WILL NOT OCCUR WITHIN 30 DAYS, ALL DISTURBED AREAS MUST BE TEMPORARILY SEEDED AND/OR MULCHED IMMEDIATELY.

ALL MATERIALS TO BE DISPOSED OF OFF-SITE MUST BE DISPOSED OF IN AN ENVIRONMENTALLY SOUND MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. NO EXCESS MATERIALS ARE TO BE DISPOSED OF IN ANY WETLAND, FLOOD PLAIN, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS. EROSION CONTROL MEASURES AT THE DISPOSAL SITE MUST BE INSTALLED AND MAINTAINED UNTIL DISPOSAL IS COMPLETE AND THE DISPOSAL SITE IS PERMANENTLY STABILIZED. GIVING EXCAVATED SOIL AWAY DOES NOT RELIEVE THE CONTRACTOR OR ENGINEERS OF THIS RESPONSIBILITY

SHOULD ANY OF THE ABOVE ENVIRONMENTAL PROTECTION NOTES BE IN CONFLICT WITH ANY OTHERS NOTES LISTED, THE ENVIRONMENTAL PROTECTION NOTES ARE TO TAKE PRECEDENCE.

your trusted advisor

Consultants

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	CRACKEL SUBDIVISION		
	SA	ISSUE DATE: 1/17/20	
PROJE 90 DISCII		SCALE: AS SHOWN	
		DESIGNED BY: ISC	
	EROSION CONTROL DETAILS	DRAWN BY: ISC	
		CHECKED BY: KB	

CIVIL SHEET NAME

**EC-DETS** 

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