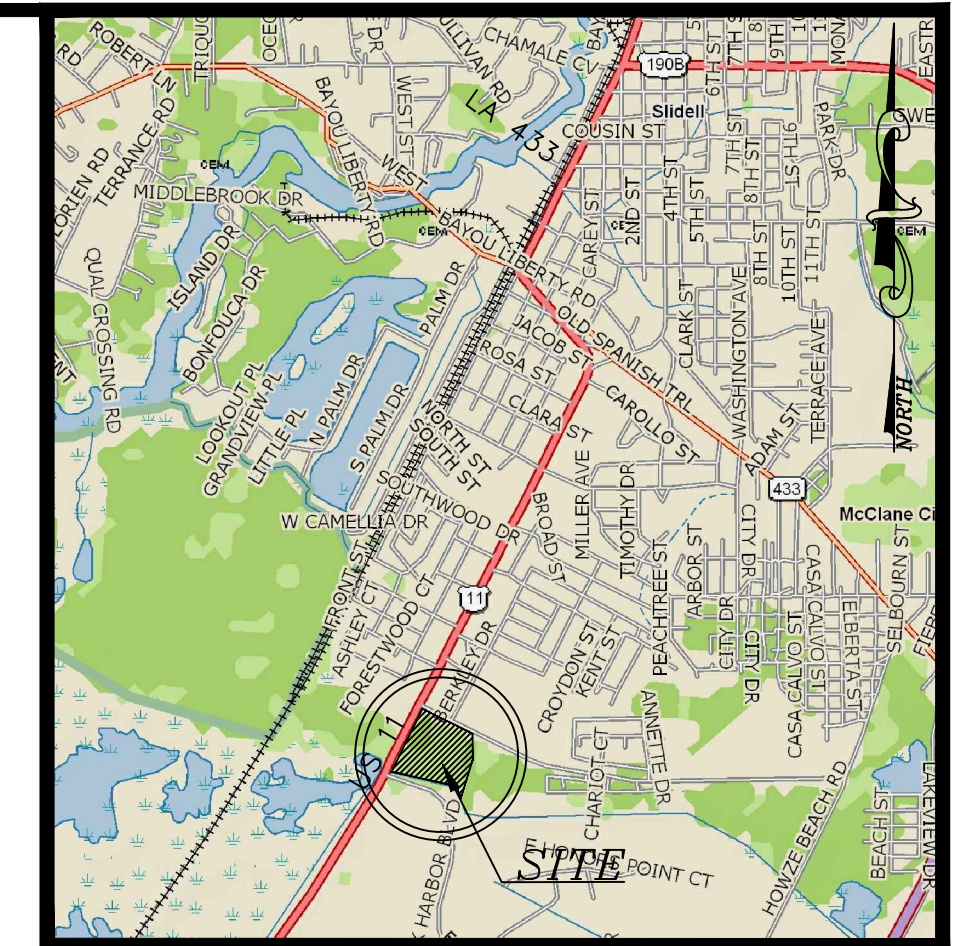


# Construction Plans For CANTERBURY HOUSE II-SLIDELL

## Updated Phase II of Canterbury House Apartments, A Multi-family Development

### Pavement, Drainage, Sewage, and Water Systems



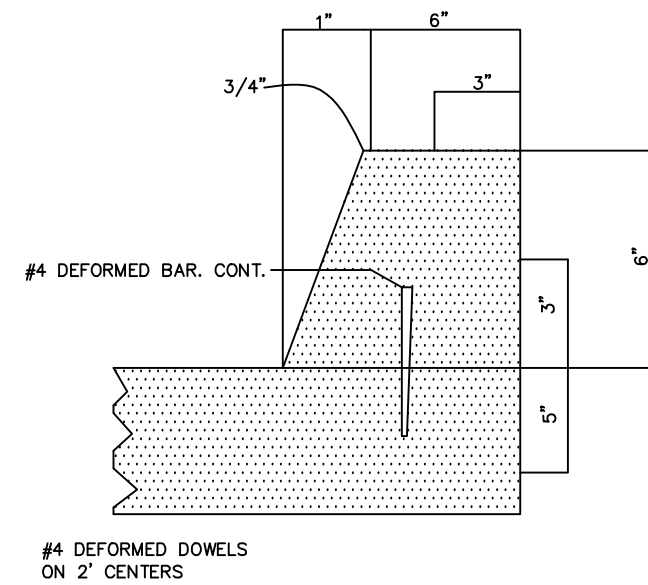
VICINITY MAP  
1" = 2000'

#### INDEX TO SHEETS

TITLE SHEET	01
SANITARY SEWER LAYOUT	02
SANITARY SEWER DETAILS	03
PHASE 2 DRAINAGE LAYOUT	04
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SPARTAN DRIVE/US 11 TURN LANE	13
PONCHARTRAIN DRIVE/TYPICAL SECTIONS	14
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#### GENERAL NOTES

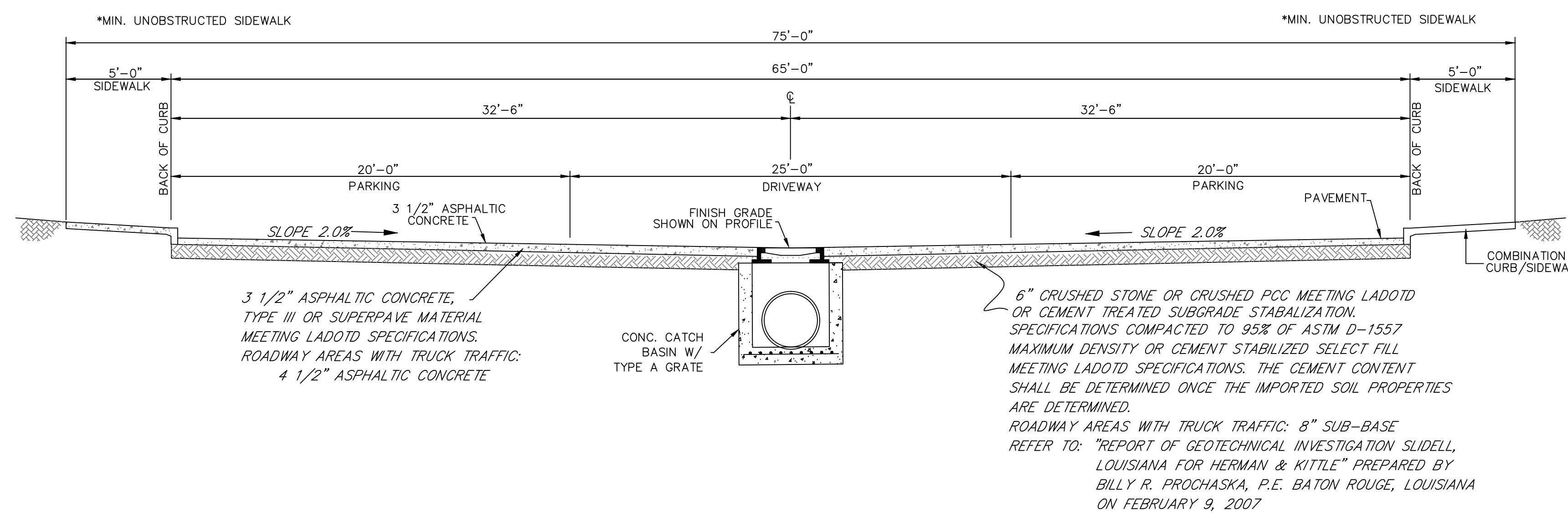
1. CONTOURS SHOWN EXISTED PRIOR TO CONSTRUCTION AND SHALL NOT BE USED FOR SUBSEQUENT ACTIVITY.
2. CONTRACTOR SHALL INCLUDE IN HIS PRICE, ALL SURVEYING AND CONSTRUCTION LAYOUT REQUIRED TO PRODUCE THE DESIGN IN SUBSTANTIAL CONFORMANCE WITH THESE PLANS AND SPECIFICATIONS. ENGINEER SHALL FURNISH ONE BENCH MARK AND TWO CONTROL POINTS. ANY ADDITIONAL STAKEOUT WILL BE AT THE EXPENSE OF THE CONTRACTOR.
3. CONTRACTOR SHALL INCLUDE IN HIS PRICE, ALL AS-BUILT MEASUREMENTS NEATLY MARKED ON A SET OF CLEAN CONSTRUCTION PLANS WHICH WILL BE FURNISHED BY THE ENGINEER. A TOTAL OF FIVE (5) SETS WILL BE FURNISHED TO THE CONTRACTOR WITHOUT CHARGE. ADDITIONAL SETS WILL BE FURNISHED AT \$65 PER SET.
4. THESE PLANS ARE THE PROPERTY OF THE ENGINEER AND REPRODUCTION IS PROHIBITED EXCEPT BY WRITTEN PERMISSION OF THE ENGINEER. THE PLANS MAY HAVE ADDITIONAL INFORMATION ADDED IN A CONTINUOUS UPDATING PROCESS AND ALL REVISED SHEETS WILL BE FURNISHED TO THE CONTRACTOR AS REQUIRED.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ANY REQUIRED PERMITS INCLUDING BUT NOT LIMITED TO STORMWATER DISCHARGE PERMIT, LOUISIANA D.E.Q. PERMIT & EROSION CONTROL PROTECTION PLAN. INSTALLATION TO BE MADE PRIOR TO ROUGH GRADING AND SHALL CONFORM TO LOUISIANA D.E.Q. PERMIT FROM ANY GOVERNING BODIES AND AGENCIES NEEDED FOR CONSTRUCTION.
6. NO PERSON SHALL EXCAVATE OR DEMOLISH WITHOUT FIRST ASCERTAINING THE LOCATION OF UNDERGROUND UTILITIES BY SERVING TELEPHONIC NOTICE TO LOUISIANA ONE CALL (FORMERLY DOTTIE). IN ORDER TO SERVE NOTICE OF EXCAVATION, THIS PROGRAM CAN BE REACHED BY CALLING 1-800-272-3020. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF UTILITY COMPANIES AND LOCATION OF VARIOUS UTILITY LINES AND ANY DAMAGE THERETO.
7. CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION, AS PER O.S.H.A. REQUIREMENTS.
8. CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH TESTING OF STREETS, SEWER, AND WATER SYSTEM. TESTING LAB SHALL BE APPROVED BY ENGINEER, AND OWNER. SUBMIT COPIES OF ALL TEST RESULTS AND APPROVALS TO THE OWNER AS SOON AS THEY ARE AVAILABLE.
9. CONTRACTOR SHALL SEED & FERTILIZE ALL SERVITUDES AND R/W'S INCLUDING BUT NOT LIMITED TO SHOULDERS & DITCHES.
10. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH LATEST LA DOTD SPECIFICATIONS.
11. HEAVY DUTY 4 1/2" A/C PAVING FOR ROADS WITH TRUCK TRAFFIC (DRIVE AISLES), EVERYWHERE ELSE 3 1/2" A/C PAVING.



2  
02 DOWELED BARRIER CURB DETAIL  
N.T.S.

#### STANDARD PLANS

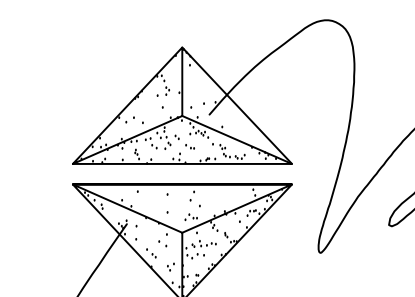
BEDDING AND BACKFILL FOR DRAINAGE STRUCTURES	BM-01
STANDARD CATCH BASIN	MC-01
STANDARD CATCH BASIN AND MANHOLE	PC-01
TEMPORARY EROSION CONTROL DETAILS (2 SHEETS)	EC-01, EC-02
OPEN TOP CATCH BASIN	CB-02



1  
02 TYPICAL DRIVEWAY SECTION  
N.T.S.

CANTERBURY HOUSE II-SLIDELL, LLC  
500 E. 96TH ST., STE. 300  
INDIANAPOLIS, IN 46240  
(317) 846-3111

REVISIONS		
NO.	DATE	DESCRIPTION
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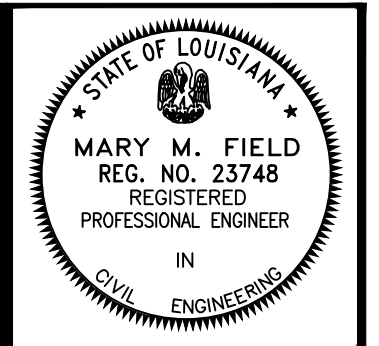


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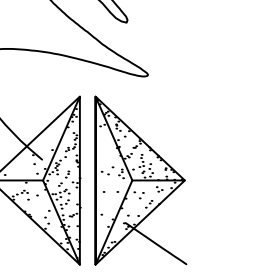
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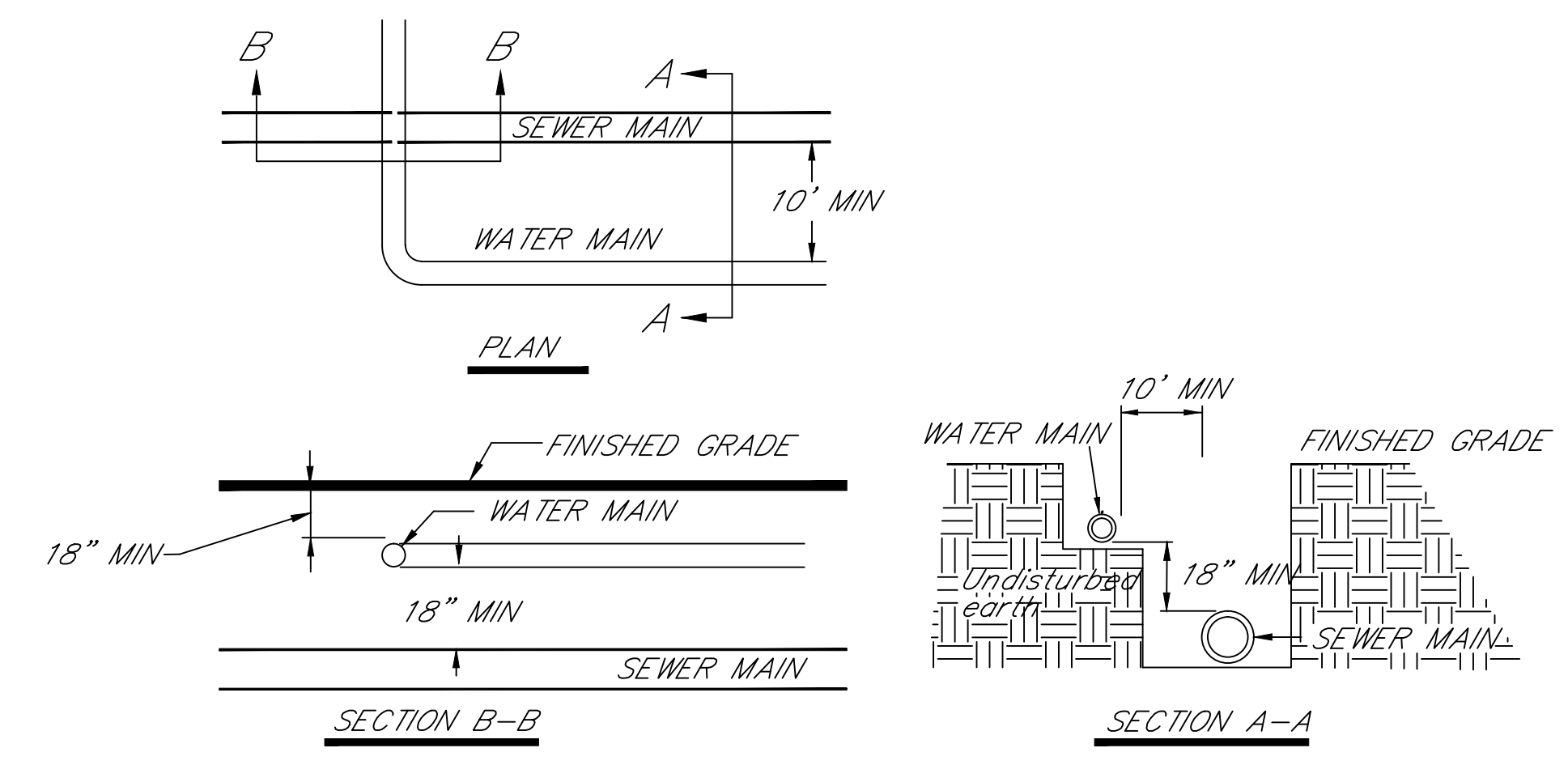
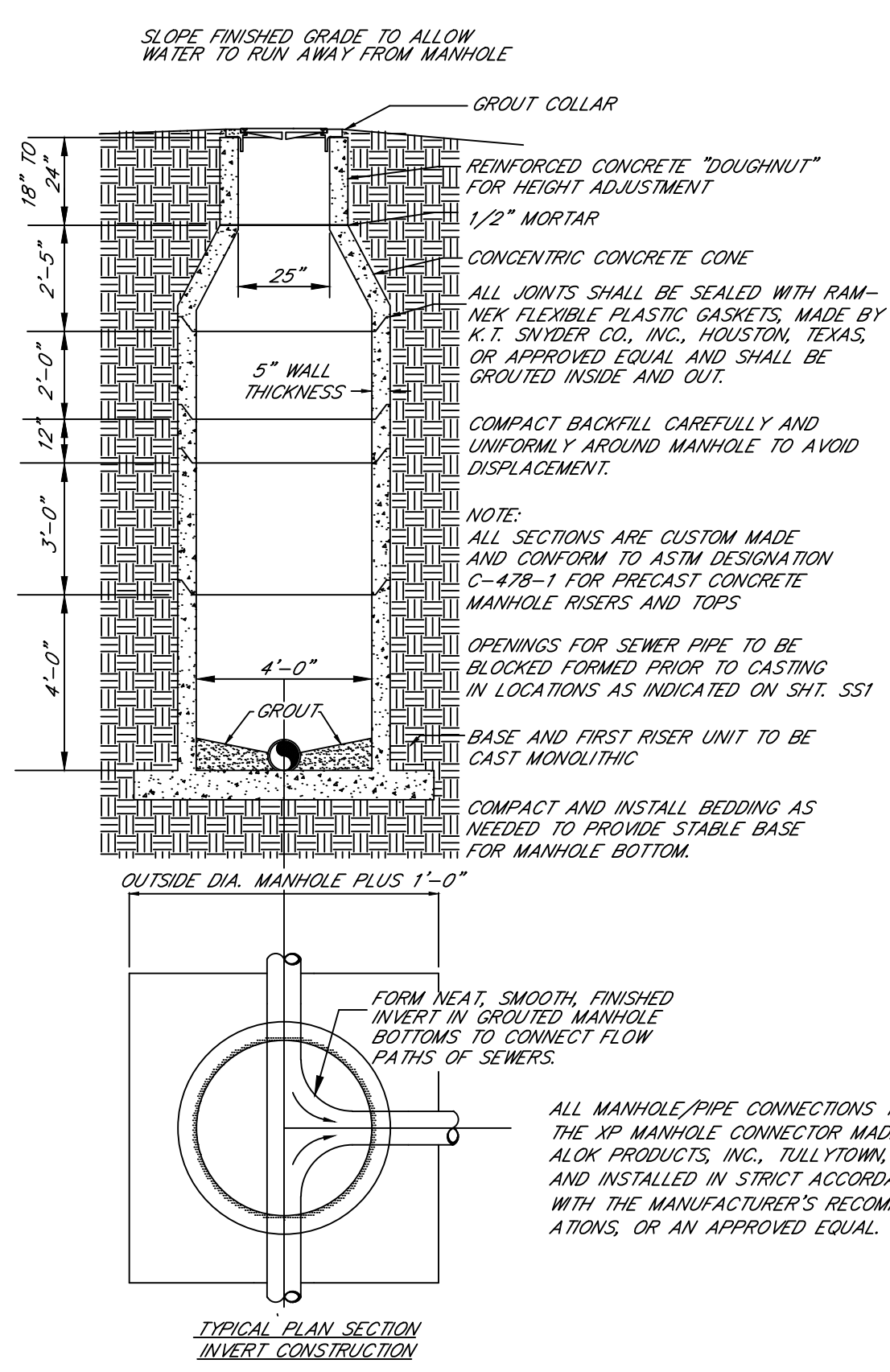
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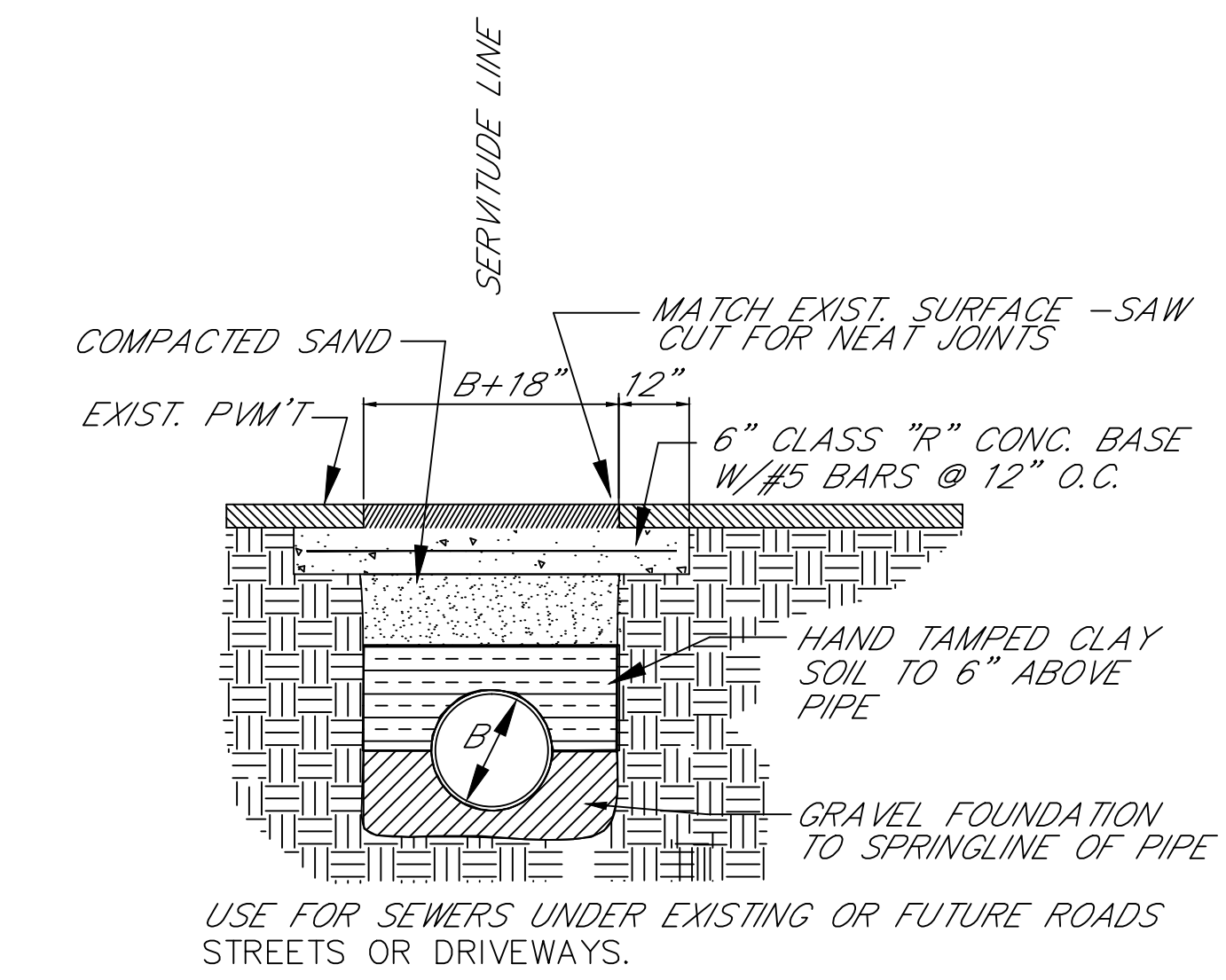
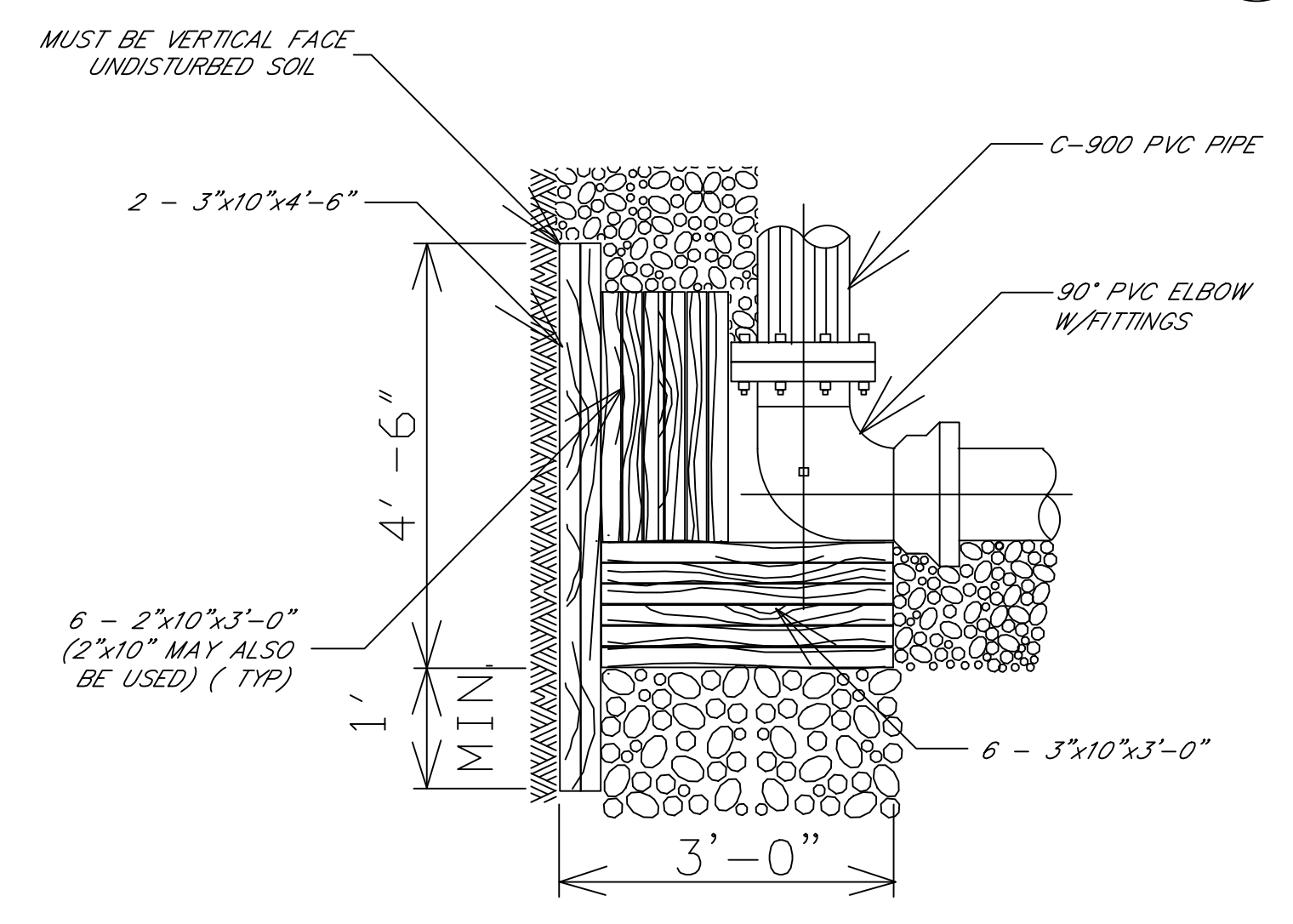
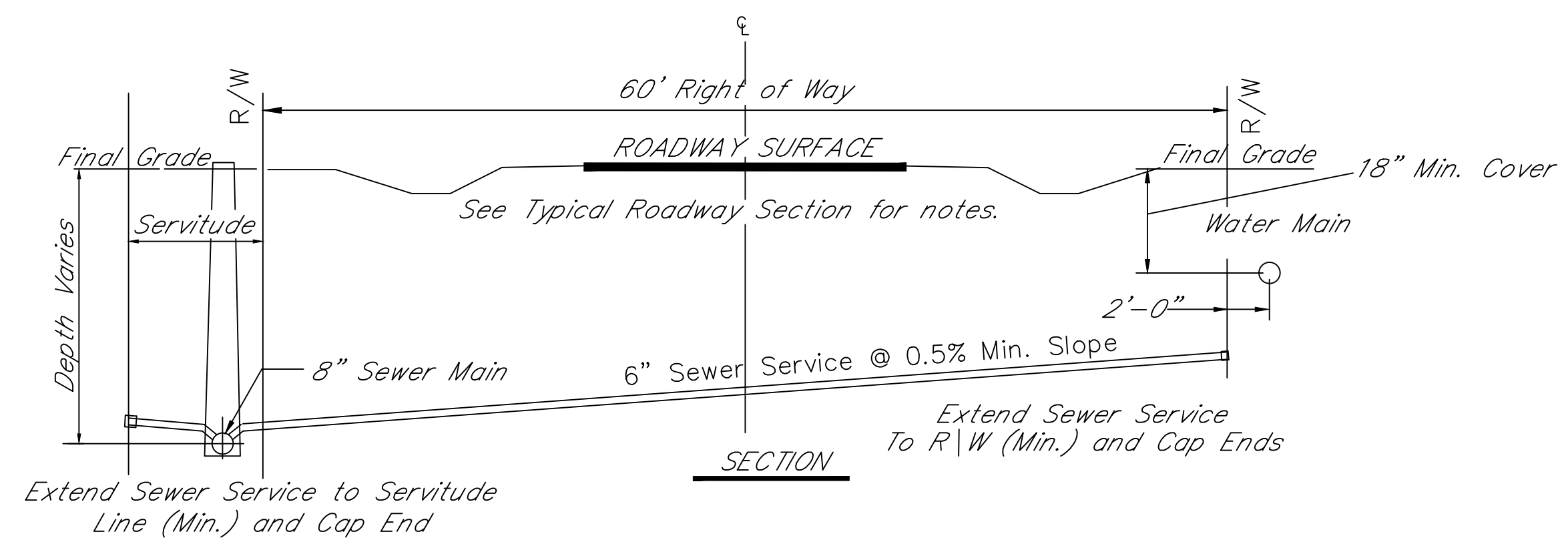
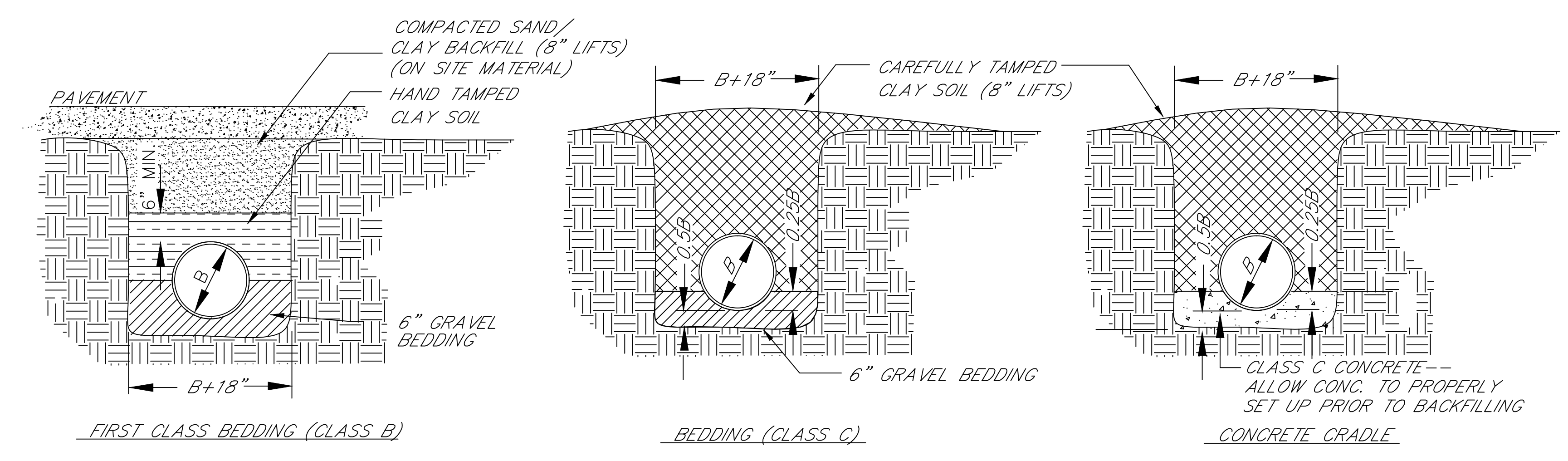
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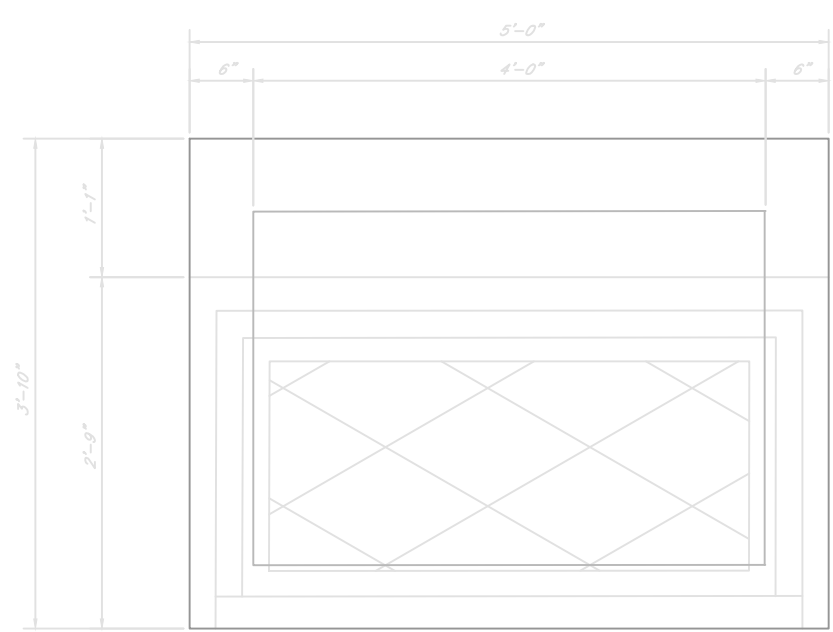
**CANTERBURY HOUSE II-SLIDELL**  
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DATE	SEPT 2011
SHEET NO.	03 OF 14

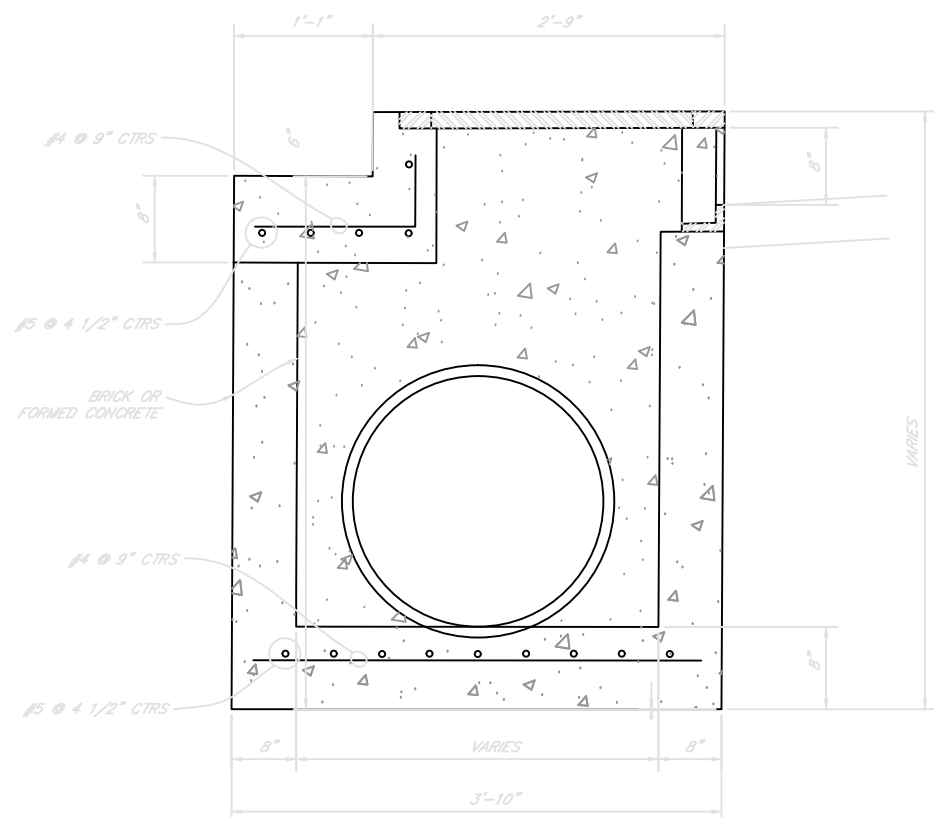


- GENERAL NOTES:**
- 1) WHERE REQUIRED, WELL POINTS SHALL BE INSTALLED AND TRENCH PUMPED DRY PRIOR TO EXCAVATION AND KEPT DRY DURING CONSTRUCTION AND UNTIL AT LEAST 3'-0" OF EARTH BACKFILL HAS BEEN PLACED.
  - 2) REMAINDER OF FILL SHALL BE PLACED IN 8" MAX. LIFTS TO A POINT 1'-0" BELOW NATURAL GROUND OR FINISHED GRADE.
  - 3) STACKS SHALL BE INSTALLED WHEN SEWERS ARE 8' DEEP, OR MORE.
  - 4) DETAIL 4 CLASS B SHOWS BEDDING TO BE USED FOR SEWERS EVERYWHERE EXCEPT PUBLIC ROW.
  - 5) LIMESTONE TO BE #610.

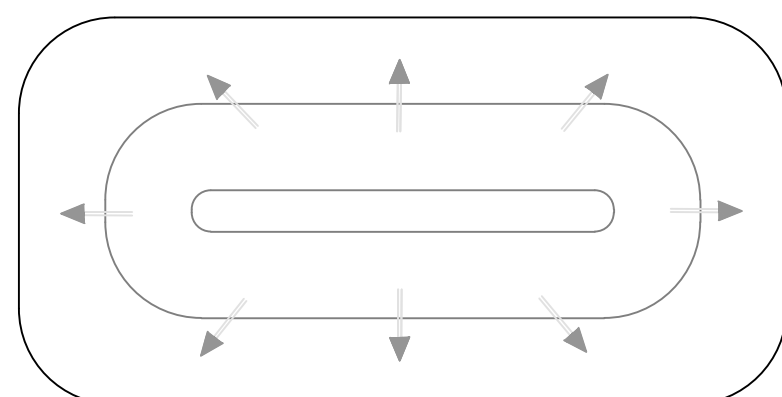




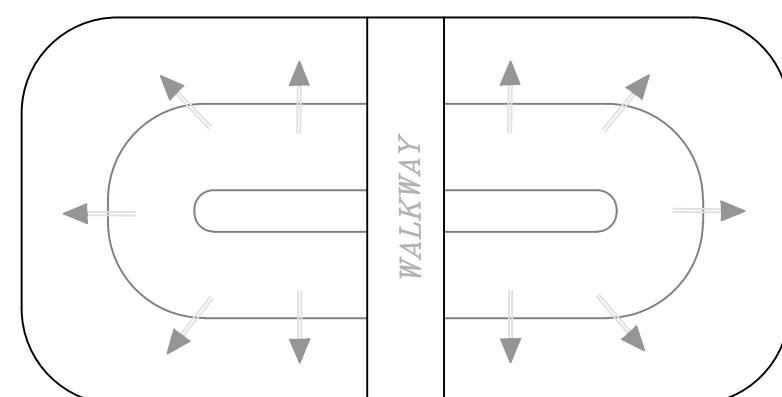
2 CURB INLET (PLAN)  
04 SCALE: N.T.S.



3 CURB INLET (SECTION)  
04 SCALE: N.T.S.

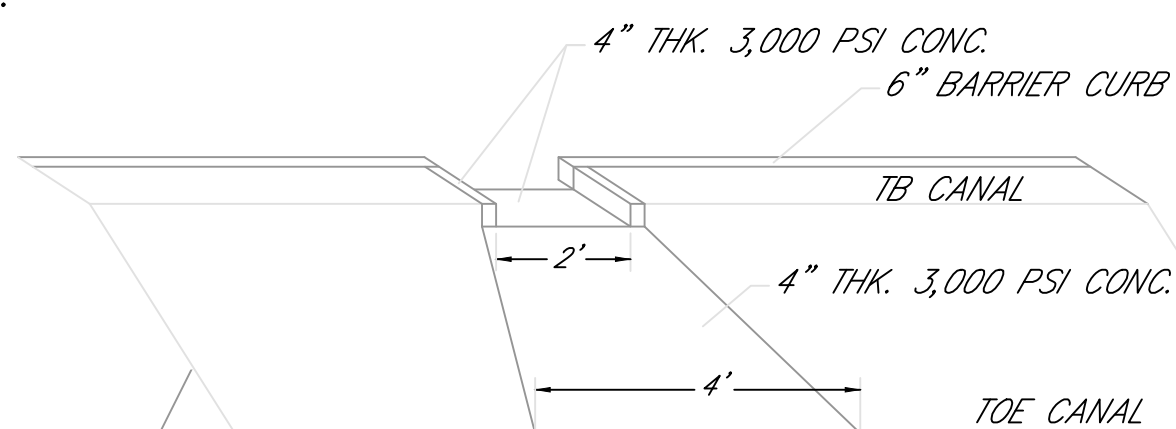


4 UNDER BUILDING DETAIL BUILDINGS 5,6,8,&9  
04 SCALE: N.T.S.



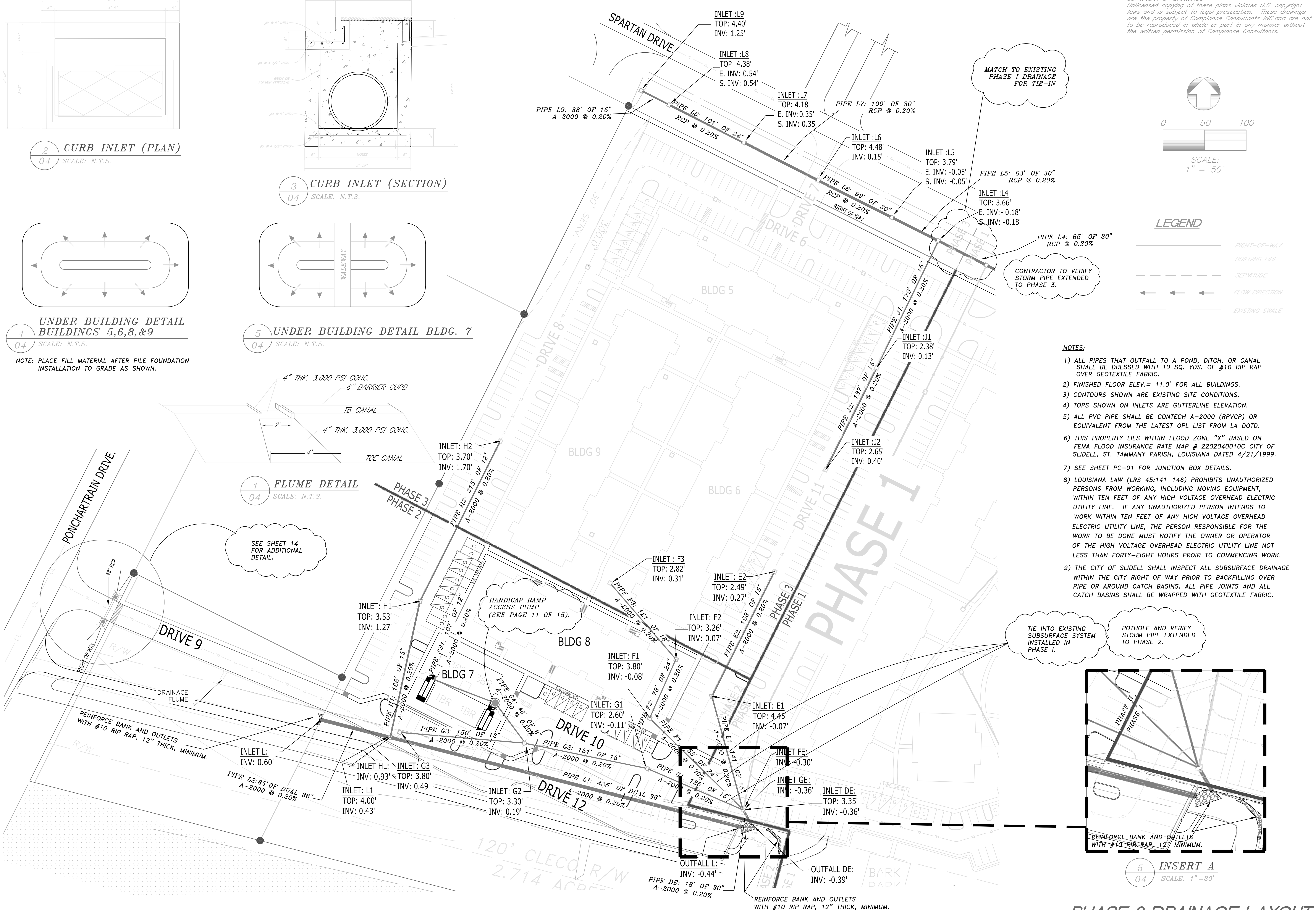
5 UNDER BUILDING DETAIL BLDG. 7  
04 SCALE: N.T.S.

NOTE: PLACE FILL MATERIAL AFTER PILE FOUNDATION INSTALLATION TO GRADE AS SHOWN.



1 FLUME DETAIL  
04 SCALE: N.T.S.

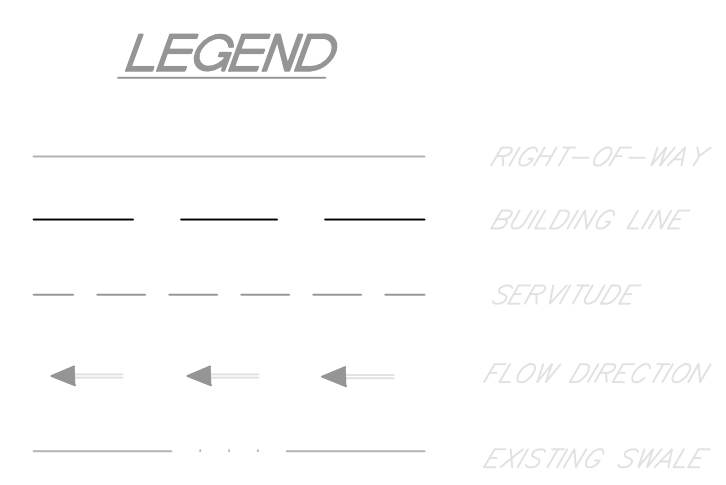
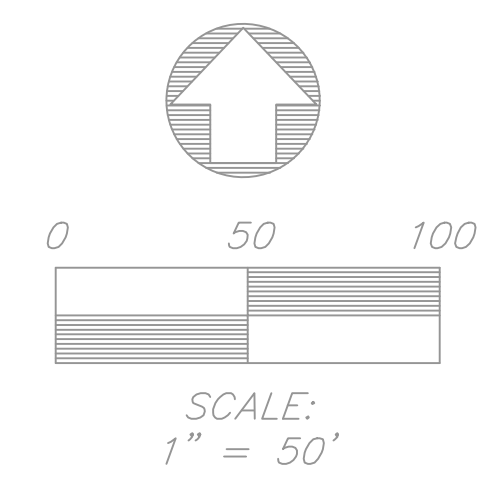
SEE SHEET 14 FOR ADDITIONAL DETAIL.



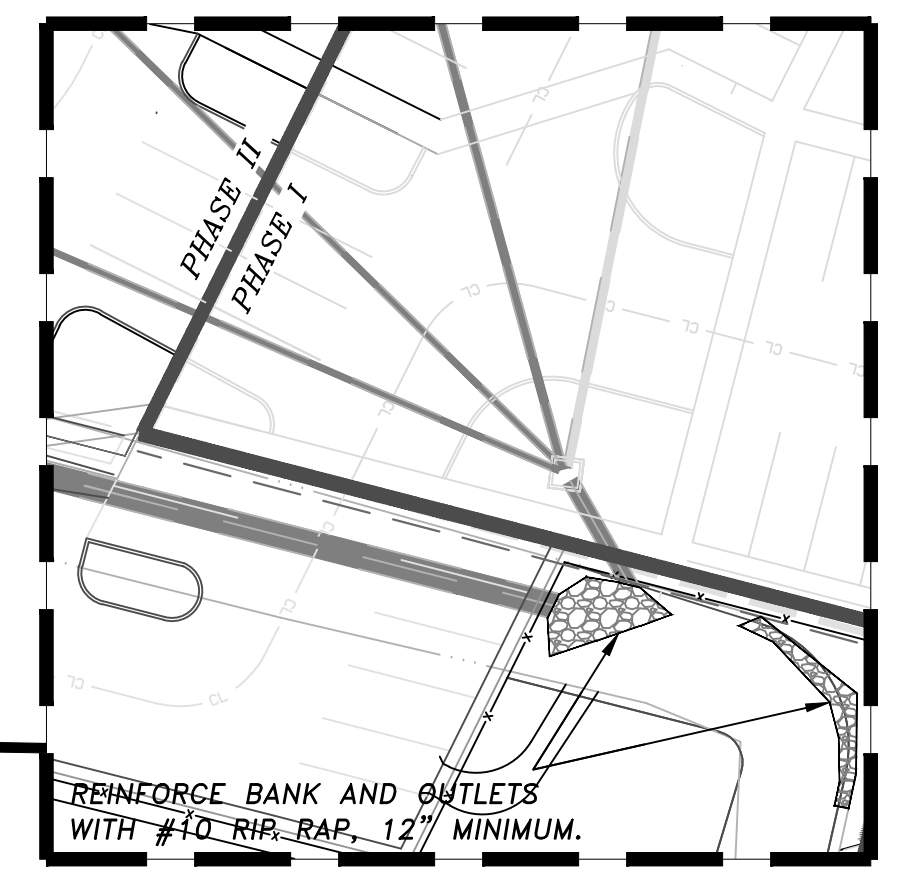
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- NOTES:
- 1) ALL PIPES THAT OUTFALL TO A POND, DITCH, OR CANAL SHALL BE DRESSED WITH 10 SQ. YDS. OF #10 RIP RAP OVER GEOTEXTILE FABRIC.
  - 2) FINISHED FLOOR ELEV.= 11.0' FOR ALL BUILDINGS.
  - 3) CONTOURS SHOWN ARE EXISTING SITE CONDITIONS.
  - 4) TOPS SHOWN ON INLETS ARE GUTTERLINE ELEVATION.
  - 5) ALL PVC PIPE SHALL BE CONTECH A-2000 (RPVCP) OR EQUIVALENT FROM THE LATEST OPL LIST FROM LA DOTD.
  - 6) THIS PROPERTY LIES WITHIN FLOOD ZONE "X" BASED ON FEMA FLOOD INSURANCE RATE MAP # 2202040010C CITY OF SLIDELL, ST. TAMMANY PARISH, LOUISIANA DATED 4/21/1999.
  - 7) SEE SHEET PC-01 FOR JUNCTION BOX DETAILS.
  - 8) LOUISIANA LAW (LRS 45:141-146) PROHIBITS UNAUTHORIZED PERSONS FROM WORKING, INCLUDING MOVING EQUIPMENT, WITHIN TEN FEET OF ANY HIGH VOLTAGE OVERHEAD ELECTRIC UTILITY LINE. IF ANY UNAUTHORIZED PERSON INTENDS TO WORK WITHIN TEN FEET OF ANY HIGH VOLTAGE OVERHEAD ELECTRIC UTILITY LINE, THE PERSON RESPONSIBLE FOR THE WORK TO BE DONE MUST NOTIFY THE OWNER OR OPERATOR OF THE HIGH VOLTAGE OVERHEAD ELECTRIC UTILITY LINE NOT LESS THAN FORTY-EIGHT HOURS PRIOR TO COMMENCING WORK.
  - 9) THE CITY OF SLIDELL SHALL INSPECT ALL SUBSURFACE DRAINAGE WITHIN THE CITY RIGHT OF WAY PRIOR TO BACKFILLING OVER PIPE OR AROUND CATCH BASINS. ALL PIPE JOINTS AND ALL CATCH BASINS SHALL BE WRAPPED WITH GEOTEXTILE FABRIC.



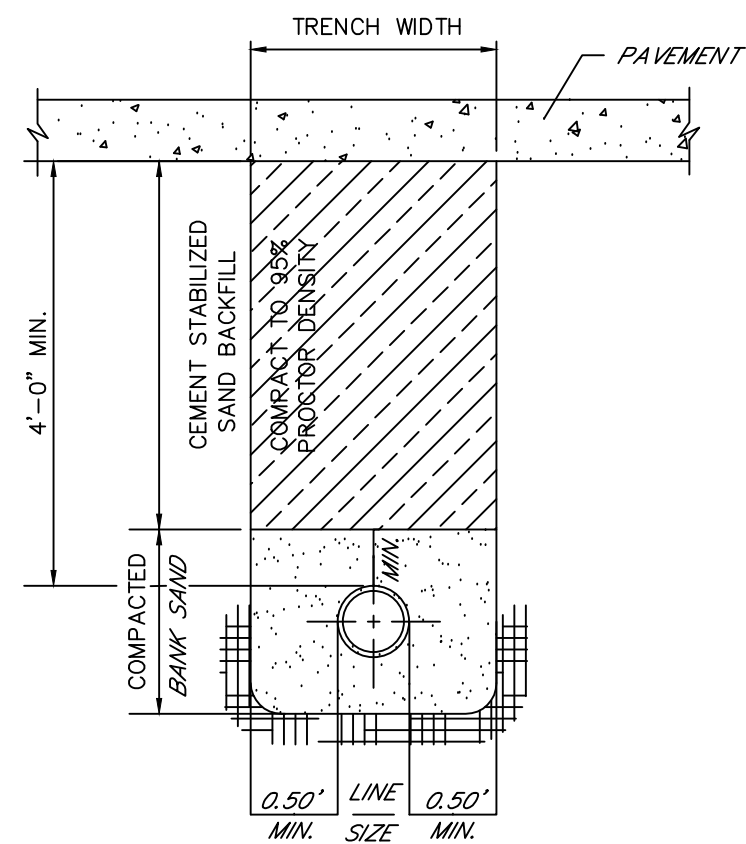
5 INSERT A  
04 SCALE: 1"=30'

NO.	DATE	DESCRIPTION
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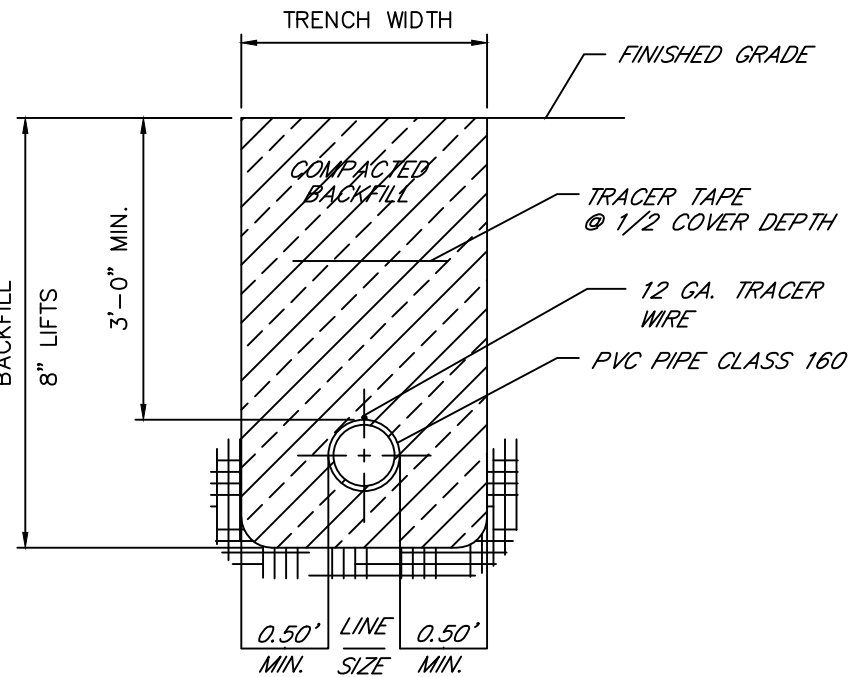
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04 OF 15

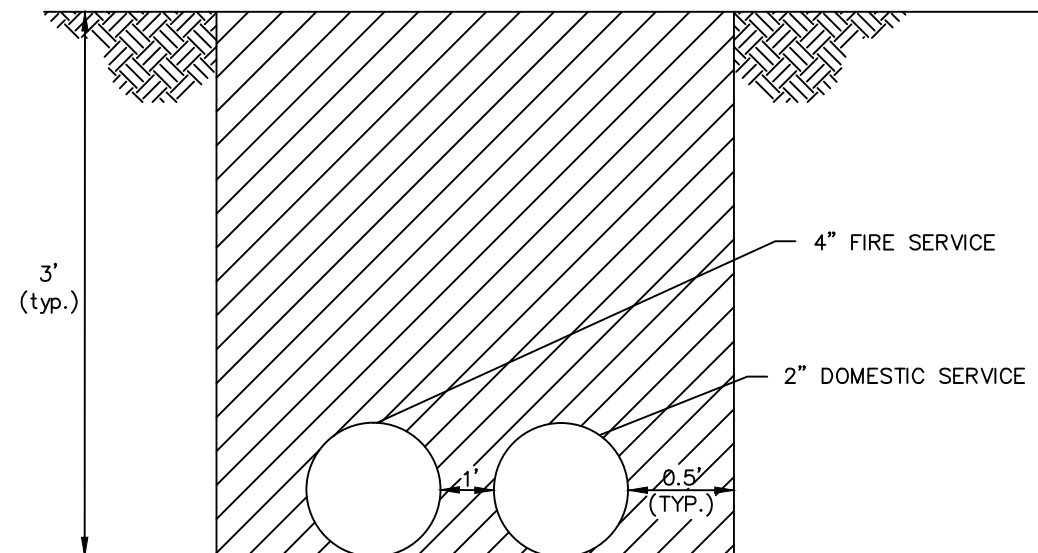
PHASE 2 DRAINAGE LAYOUT



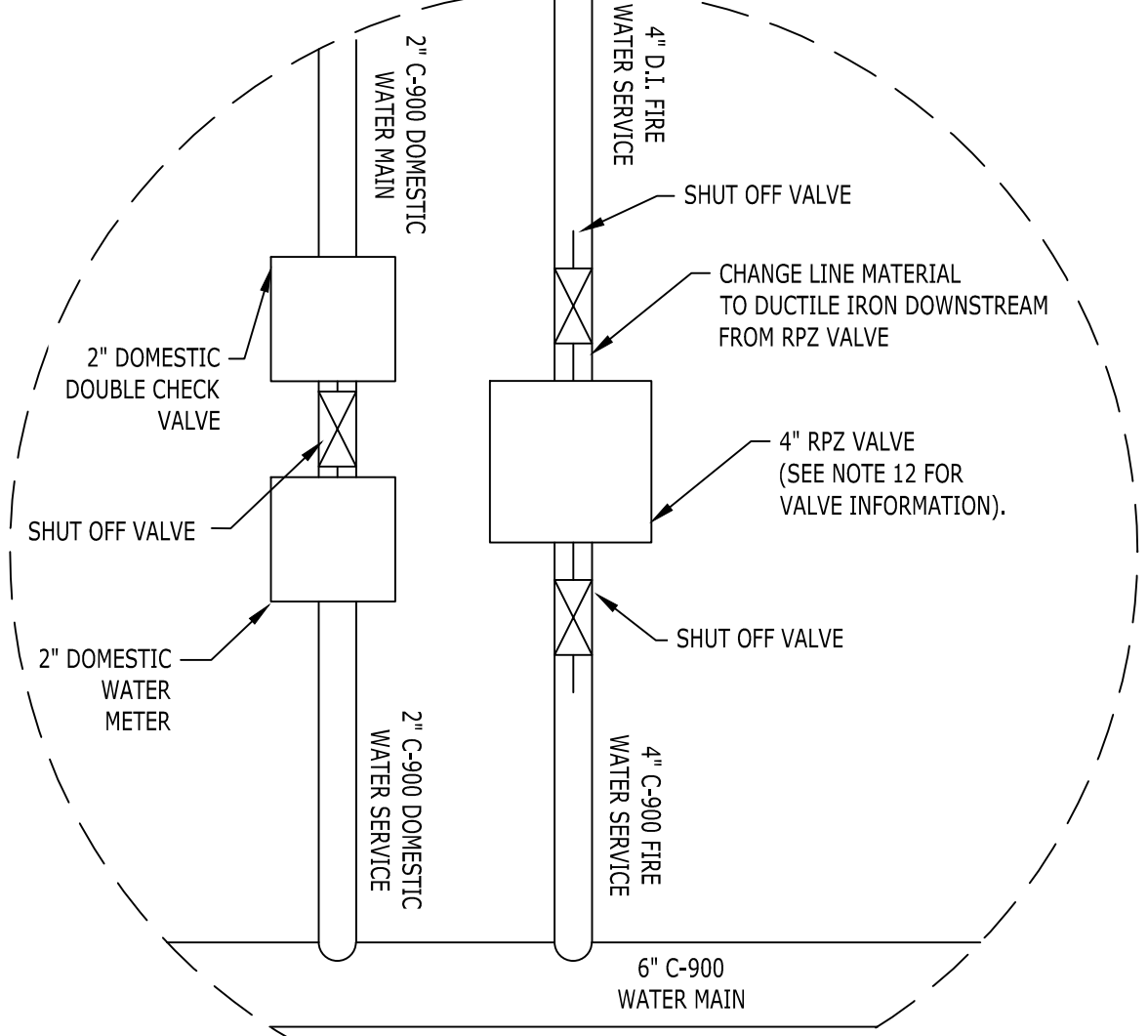
**1 WATER LINE BEDDING + BACKFILL (UNDER PAVEMENT)**  
05 N.T.S.



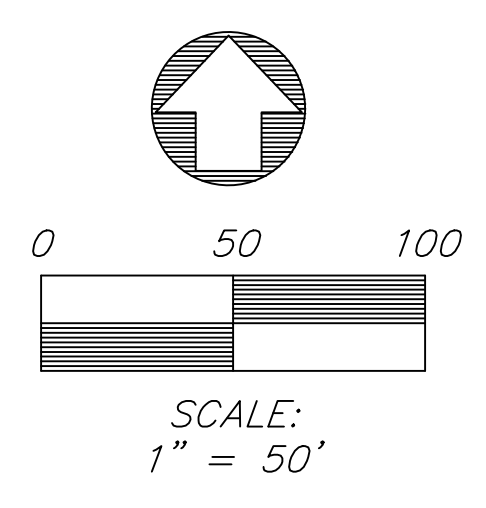
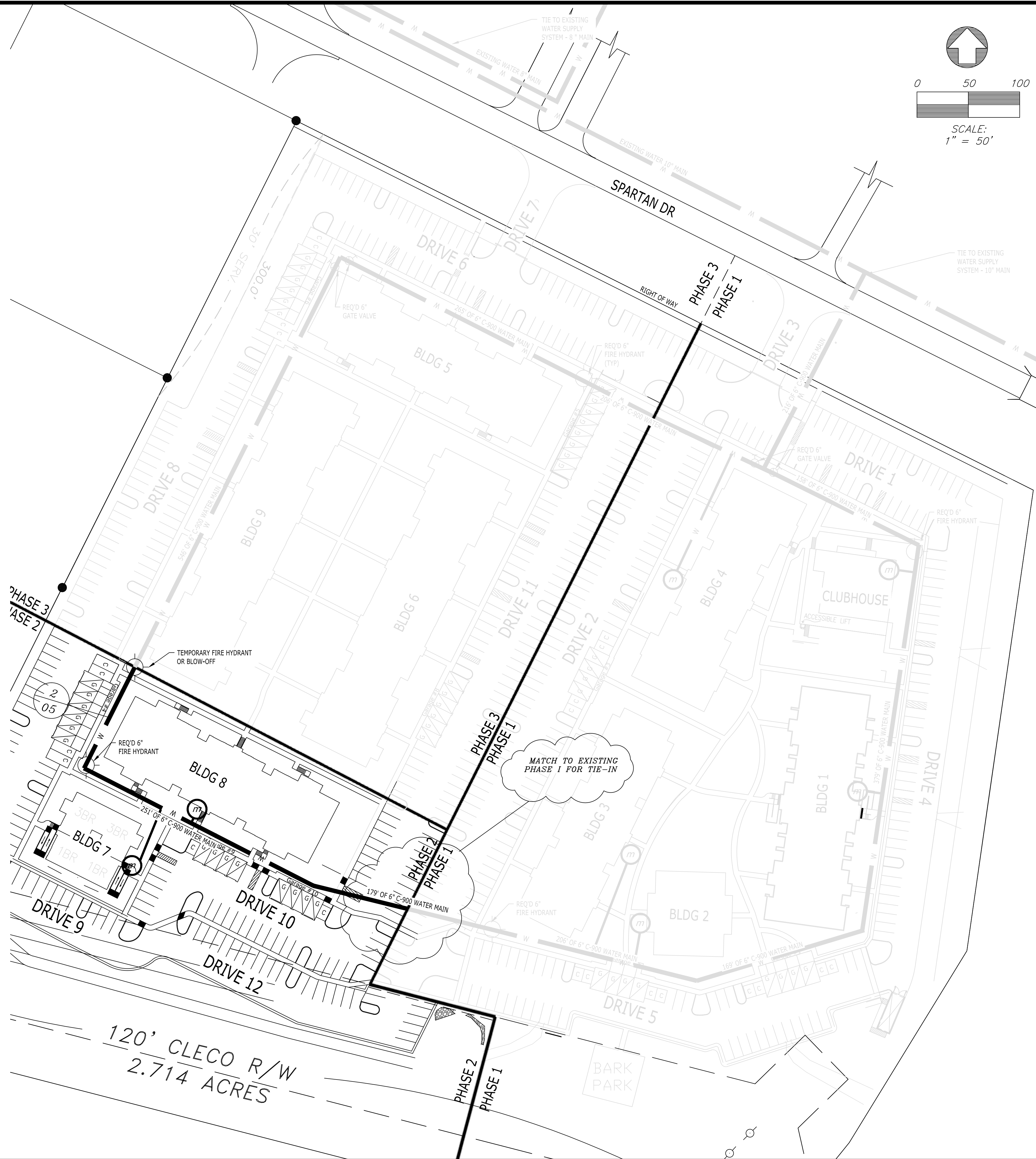
**2 WATER LINE BEDDING + BACKFILL**  
05 N.T.S.



**3 TYPICAL SERVICE DETAIL**  
05 SCALE: N.T.S.



**4 WATER METER ASSEMBLY**  
05 SCALE: N.T.S.



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**5 SERVICE LENGTHS**  
05 LENGTHS TAKEN ARE BETWEEN MAIN/BACKFLOW PREVENTER ASSEMBLY

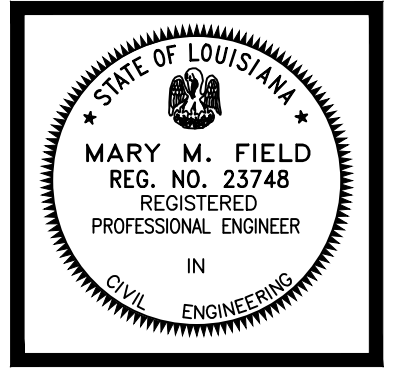
- BLDG 1=12.85'
- BLDG 2=28.66'
- BLDG 3=25.26'
- BLDG 4=31.89'
- BLDG 5=10.27'
- BLDG 6=267.58'
- BLDG 7=1.00'
- BLDG 8=2.20'
- BLDG 9=7.71'
- CLUBHOUSE=12.85'

**LEGEND**

- SERVITUDE
- PROPERTY LINE
- W — 6" WATER MAIN
- W — WATER SERVICE (DOMESTIC & FIRE)
- (m) WATER METER / VALVE ASSEMBLY (SEE DETAIL 4/06)
- ⊗ SHUT OFF VALVE

**NOTES:**

- 1) ALL WATER PIPE SHALL BE PVC C900, CLASS 160, UNLESS OTHERWISE NOTED.
- 2) TRENCHING WIDTH SHALL BE AMPLE TO ALLOW THE PIPE TO BE LAID AND JOINTED AS REQUIRED. BEDDING REQUIRED FOR ALL WATER MAINS.
- 3) LEAKAGE TEST IF REQUIRED SHALL CONFORM TO LOCAL REGULATIONS.
- 4) CONTRACTOR SHALL NOT WORK ON WATER LINES WITHOUT PERMISSION OF THE WATER INSPECTORS. CONTRACTOR SHALL BE AWARE THAT PROPER ADVANCE NOTICES AND KEEPING INSPECTORS INFORMED OF WORK SCHEDULES SHALL BE HIS RESPONSIBILITY AND THAT ANY ACTIVITY THAT IS NOT INSPECTED MAY CAUSE THE UNCOVERING OF WORK FOR PROPER INSPECTION.
- 5) THRUST BLOCKS SHALL BE INSTALLED AT ALL TURNS IN WATER MAINS (SEE SHEET 07 FOR TYPICAL INSTALLATION DETAILS. CONTRACTOR SHALL INCLUDE COSTS FOR THRUST BLOCKS IN COST FOR WATER MAIN.
- 6) CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT SURVEY PRIOR TO FINAL INSPECTION.
- 7) ALL THRUST BLOCKING WITHIN CITY RIGHT OF WAY AND FOR HYDRANTS AND VALVES SHOULD BE TIMBER, NOT CONCRETE.
- 8) SEE SHEET 06 FOR WATER SYSTEM DETAILS, & FIRE HYDRANT DETAIL TYPICAL SECTION.
- 9) DELETED.
- 10) WATER TAPS ON THE CITY'S WATER MAIN ARE MADE BY CITY CREWS AFTER THE TAP FEES ARE PAID.
- 11) CONTRACTORS SHALL COORDINATE LOCATION OF ALL BUILDING DOMESTIC LATERALS WITH THE PLUMBING CONTRACTOR PRIOR TO INSTALLATION.
- 12) ALL BACKFLOW PREVENTION DEVICES ON FIRE SUPPLY SERVICES SHALL BE AMES FIRE & WATERWORKS MODEL COLT 400 MANUFACTURED BY WATTS WATER TECHNOLOGIES, INC.
- 13) BACKFLOW PREVENTERS TO BE INSTALLED BY CERTIFIED INSTALLERS.
- 14) RPZ TO BE INSTALLED A MINIMUM OF 6" ABOVE GROUND.
- 15) SITE WORK CONTRACTOR TO BURY WATER SERVICE STUB TO WITHIN +/- 0.1' OF DESIGN SURFACE ELEVATIONS FOR INSTALLATION OF WATER METERS AND BOXES.
- 16) TAP FEES TO BE PAID BY GENERAL CONTRACTOR.
- 17) CONTRACTOR TO VERIFY ELEVATION OF EXISTING WATER LINE.
- 18) RUN FIRE & DOMESTIC WATER UNDER BUILDING. STUB UP THRU CRAWL SPACE TO SPRINKLER CLOSET. CAP WITH FLANGED CONNECTION 1'-0" AFF (1ST FLOOR).



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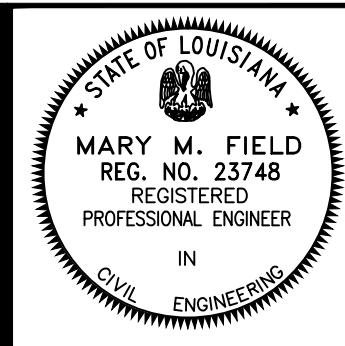
NO.	DATE	DESCRIPTION
1	3/20/12	Revisions 7 & 8
2		
3		

**CANTERBURY HOUSE II-SLIDELL**  
A PROJECT OF:  
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SHEET NO. 05 OF 15	

**WATER LAYOUT**

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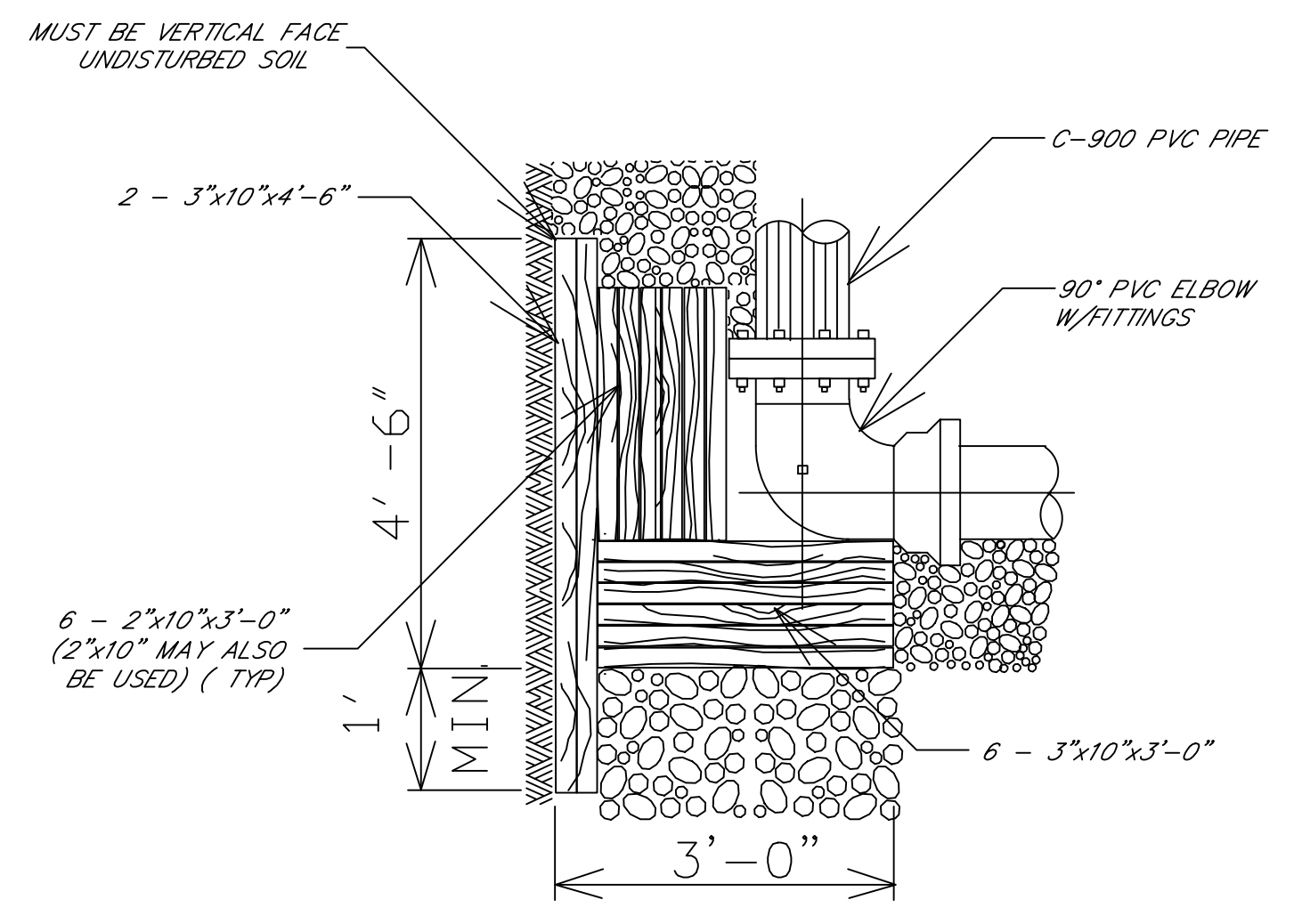


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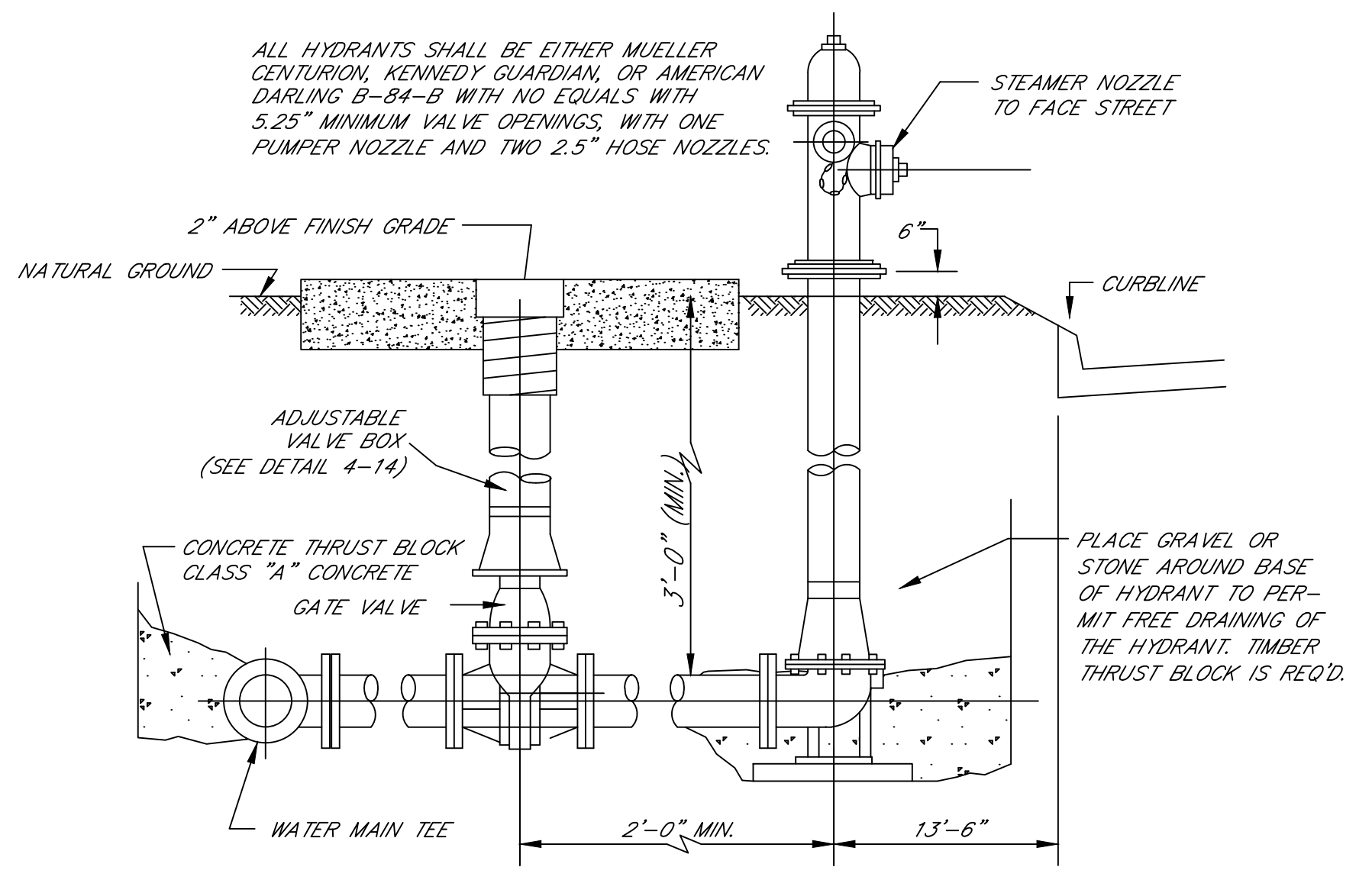
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 MF  
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 SHEET NO.  
**06 OF 15**



NOTE: All timber blocking shall be creosote treated as per A.W.W.A. specs. Timber blocking required at all changes in direction greater than 22 1/2°.

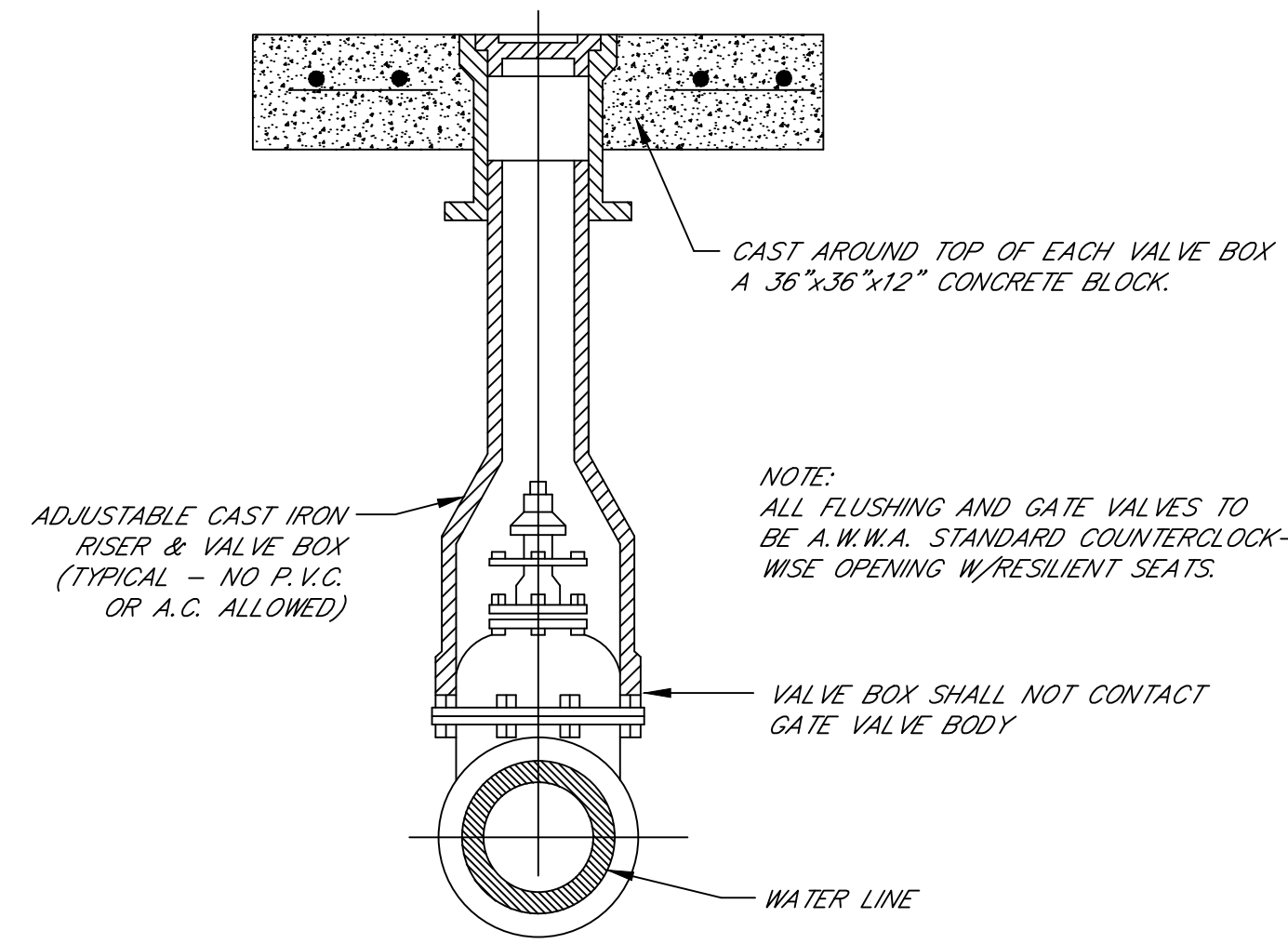
**1**  
**06** **TIMBER THRUST BLOCK DETAILS**  
 N.T.S.



**HYDRANT COLOR CODE**

MAIN LINE DIAMETER	BONNET, PUMPER CAP AND STEAMER CAP
6 INCHES (AND LESS)	CHROME YELLOW
8 INCHES	CHROME YELLOW
10 TO 20 INCHES	CHROME YELLOW
24 TO 60 INCHES	CHROME YELLOW

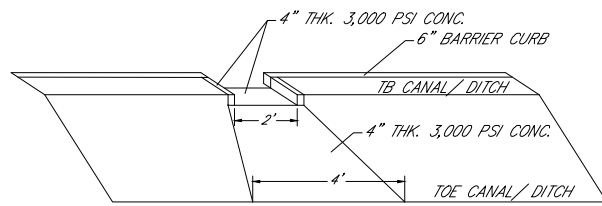
**2**  
**06** **TYPICAL FIRE HYDRANT ASSEMBLY**  
 N.T.S.



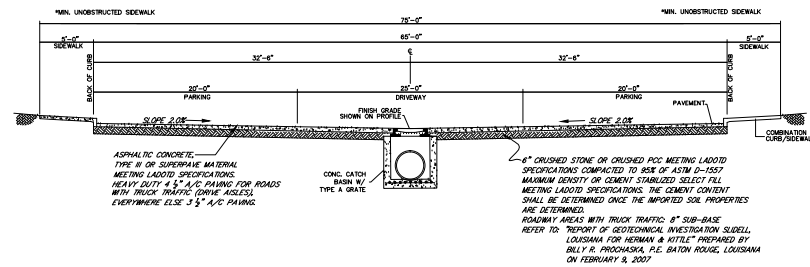
**3**  
**06** **VALVE BOX INSTALLATION DETAIL**  
 N.T.S.

**WATER DISTRIBUTION NOTES**

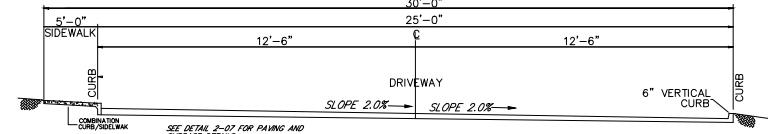
1. SURFACE RESTORATION: AT THE END OF ALL CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL RESTORE EXISTING FACILITY (I.E. PROPERTY) EQUAL TO OR BETTER THAN EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. THE LOADING AND UNLOADING OF ALL PIPE, VALVES, HYDRANTS, MANHOLES AND OTHER ACCESSORIES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PRACTICES AND SHALL AT ALL TIMES BE PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. THE CONTRACTOR SHALL LOCATE AND PROVIDE THE NECESSARY STORAGE AREAS FOR MATERIALS AND EQUIPMENT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING AND PROTECTING ALL MATERIAL AND EQUIPMENT STORED ON THE JOBSITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF MATERIALS IN A SAFE AND WORKMANLIKE MANNER TO PREVENT INJURIES, DURING AND AFTER WORKING HOURS, UNTIL PROJECT COMPLETION. VALVES & HYDRANTS SHALL BE STORED TO BE PROTECTED FROM FREEZING.
3. CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION, AS PER O.S.H.A. REQUIREMENTS.
4. ALL TESTING PROCEDURES USED ON THIS PROJECT SHALL CONFORM TO THE WATER SYSTEM OWNER'S STANDARDS. THE INITIAL TESTING EXPENSE SHALL BE BORNE BY THE CONTRACTOR. IF ANY OF THE TEST RESULTS DO NOT MEET THE TESTING STANDARDS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE OR REPLACE SUCH MATERIAL, SO THAT THE TESTING STANDARDS CAN BE MET. ADDITIONAL TESTING TO COMPLY WITH THESE STANDARDS SHALL BE AT THE CONTRACTOR'S EXPENSE.
5. ALL FINISHED GRADES SHALL VARY UNIFORMLY BETWEEN FINISHED ELEVATIONS.
6. CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT ALL "POINTS OF CROSSING" TO DETERMINE IF CONFLICTS EXIST BEFORE COMMENCING ANY CONSTRUCTION. NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICT.
7. THE CONTRACTOR SHALL NOT UNLOAD ANY TRACK-TYPE CONSTRUCTION MACHINERY ON ANY EXISTING PAVEMENT OR CROSS OVER ANY EXISTING PAVEMENT OR CURB DURING ANY PROJECT.
8. IT IS PERMISSIBLE TO USE A BACKHOE FOR TRENCH EXCAVATION IN LIEU OF A TRENCHING MACHINE.
9. CONTRACTOR SHALL NOTIFY WATER SYSTEM OWNER AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
10. INFORMATION REGARDING INSPECTION FEES FOR AFTER HOURS AND HOLIDAY INSPECTIONS CAN BE OBTAINED FROM THE OWNER.
11. ALL WATER MAINS SHALL BE C900 P.V.C. PIPE, UNLESS OTHERWISE NOTED.
12. CONTRACTOR SHALL PROVIDE FOR A MINIMUM OF 6" (SIX INCHES) CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS AND 18" (EIGHTEEN INCHES) MINIMUM CLEARANCE AT SANITARY SEWER AND WATER LINE CROSSINGS. WATER LINE SHALL BE LOCATED AT A HIGHER ELEVATION THAN THE SEWER WHEREVER POSSIBLE.
13. ALL WATER MAINS TO HAVE MINIMUM OF 3' (THREE FEET) COVER FROM PROPOSED TOP OF CURB WHEN CONSTRUCTED IN STREET RIGHT-OF-WAY AND 3' (THREE FEET) COVER FROM FINISHED GRADE WHEN CONSTRUCTED WITHIN EASEMENTS.
14. CONTRACTOR SHALL PROVIDE FOR A MINIMUM HORIZONTAL CLEARANCE OF 10' (TEN FEET) BETWEEN WATER MAINS AND SANITARY SEWER LINES AND MANHOLES.
15. ALL GATE VALVES TO BE COUNTERCLOCKWISE OPENING AND ALL FLUSHING VALVES TO BE COUNTERCLOCKWISE OPENINGS. VALVES TO BE LOCATED OPPOSITE PROPERTY LINE OR R.O.W. LINE EXTENDED UNLESS OTHERWISE SHOWN ON PLANS. AWWA GATE VALVES WITH RESILIENT SEATS.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION.
17. NO CONNECTIONS SHALL BE MADE TO EXISTING WATER LINES UNTIL ALL PROPOSED WATER LINES HAVE BEEN THOROUGHLY CLEANED, TESTED, DISINFECTED AND APPROVED BY THE ENGINEER.
18. AN 12-GA. GALVANIZED STEEL WIRE AND APPROVED DETECTABLE TAPE SHALL BE LAID IN THE TRENCH ON TOP OF ALL UNDERGROUND NON-METALIC PIPE AS A TRACER TO FACILITATE LOCATING THE PIPE IN THE FUTURE.
19. THE TIE-IN FEE WILL BE PAID BY THE CONTRACTOR.
20. ALL WATER VALVES SHALL HAVE AN 12" THICK 36" SQ. CONCRETE PAD CONSTRUCTED AROUND ALL VALVE BOX COVERS AND HAVE A GROUND ROD LEADING TO TRACER WIRE CLAMPING IT TO THE BOTTOM OF THE VALVE BOX FOR LOCATION OF THE WATER MAINS.
21. ALL DUCTILE IRON TEES, VALVES, ect. SHALL BE SECURED WITH ANCHOR TYPE FITTINGS TO RESIST THRUST, TO BE APPROVED BY WATER SYSTEM OWNER.
22. ALL CLEANING, TESTING, AND DISINFECTING TO BE INCLUDED IN CONTRACTOR'S WORK.
23. ALL THRUST BLOCKING WITHIN CITY ROW AND FOR HYDRANTS AND VALVES SHALL BE TIMBER ONLY (NOT CONCRETE).



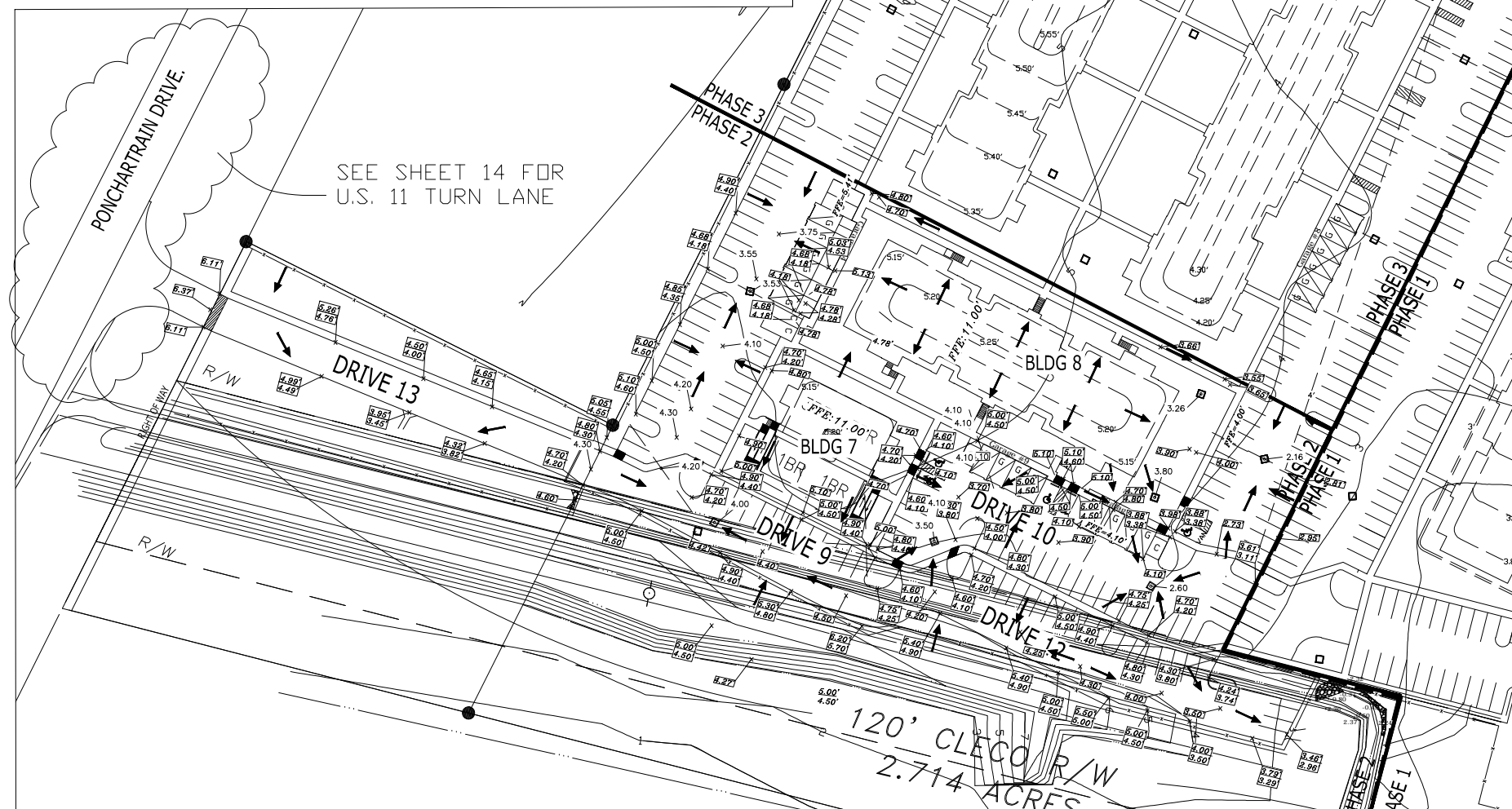
1 FLUME DETAIL  
07 SCALE: N.T.S.



2 TYPICAL SECTION - DRIVES 6, 7, 8, 9, 10, 11, & 12  
07 SCALE: N.T.S.



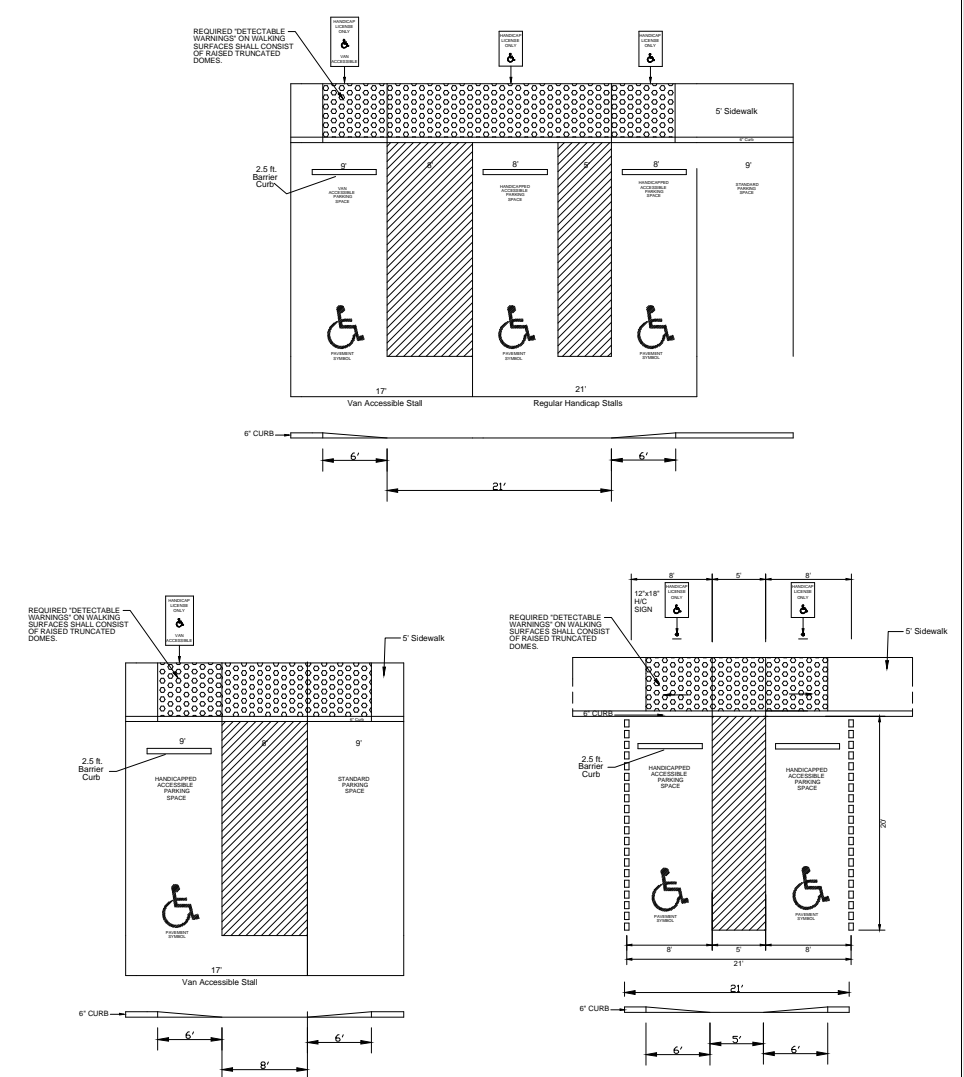
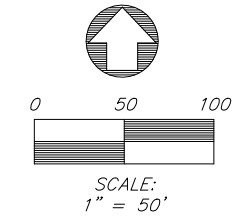
3 TYPICAL SECTION - DRIVE 13  
07 SCALE: N.T.S.



- NOTES:
1. REFER TO SHEETS 9 + 10 FOR PUMPING STATION ROAD ELEVATIONS.
  2. GRADING PLAN DOES NOT ACCOUNT FOR FILL LEFT ON PHASE 2/3 FROM PHASE 1 CONSTRUCTION.
  3. LONGITUDINAL SLOPE OF SIDEWALKS SHALL NOT EXCEED 1:20.
  4. CROSS-SLOPE OF SIDEWALKS SHALL NOT EXCEED 2%.
  5. ACCESSIBLE PARKING SPACES AND ACCESSIBLE SLOPES SHALL NOT EXCEED 2% IN ANY DIRECTION.
  6. CROSS-SLOPE OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2%.
  7. BOTTOM OF ALL SIGNS DESIGNATING HANDICAPPED PARKING SPACES SHALL BE NO LESS THAN 60" ABOVE PARKING SPOT.

LEGEND

- RIGHT-OF-WAY
- ORIGINAL SITE CONTOUR
- FINISHED GRADE CONTOURS
- RIDGE / THROUGH
- DRAINAGE INLET
- DIRECTION OF OVERLAND FLOW
- FINISHED GRADE ELEVATION IN FEET, NGVD
- FIRST FLOOR ELEVATION, FT. NGVD



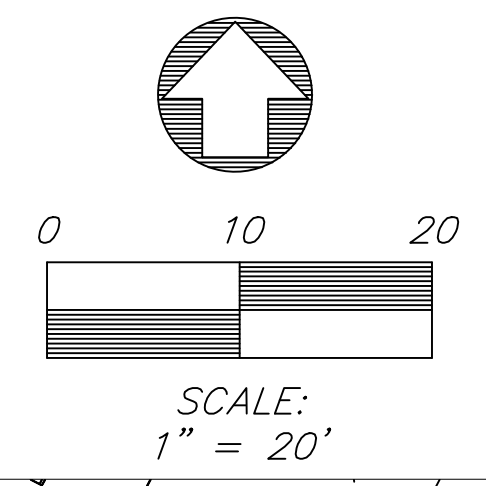
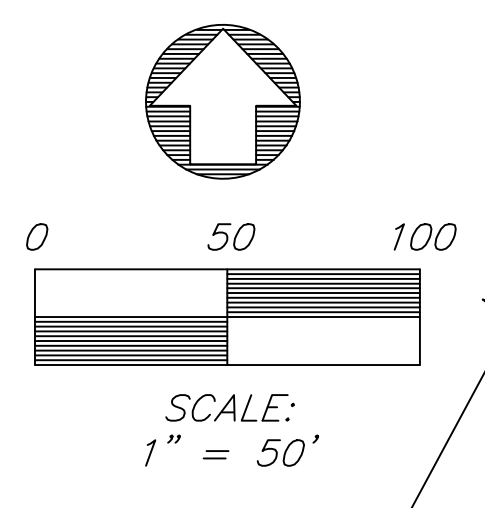
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NO.	DATE	DESCRIPTION
1		
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3		

CANTERBURY HOUSE II-SLIDELL  
A PROJECT OF:  
CANTERBURY HOUSE II-SLIDELL, LLC

CHECKED BY  
MF  
DATE  
SEPT 2011  
SHEET NO.  
07 OF 15

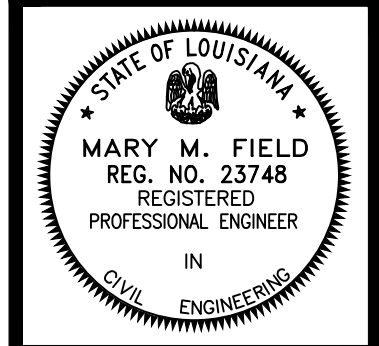
PHASE 2 GRADING PLAN



SUMMARY	
Units	Phase-2
1-Bedroom	18
2-Bedroom	12
3-Bedroom	18
4-Bedroom	0
Total - Units	48
Required Parking	96
Handicap Parking	5
Surface Parking (Including Handicap)	135
Garages	14
Carports	6
Total Parking	155
Storage	7

**LEGEND**

- HANDICAP PARKING
- VAN ACCESSIBLE
- BUILDING NUMBER
- GARAGE/CARPORTS
- STORAGE
- CARPORT
- GARAGE
- LANDSCAPE ISLAND
- NUMBER OF SPACES

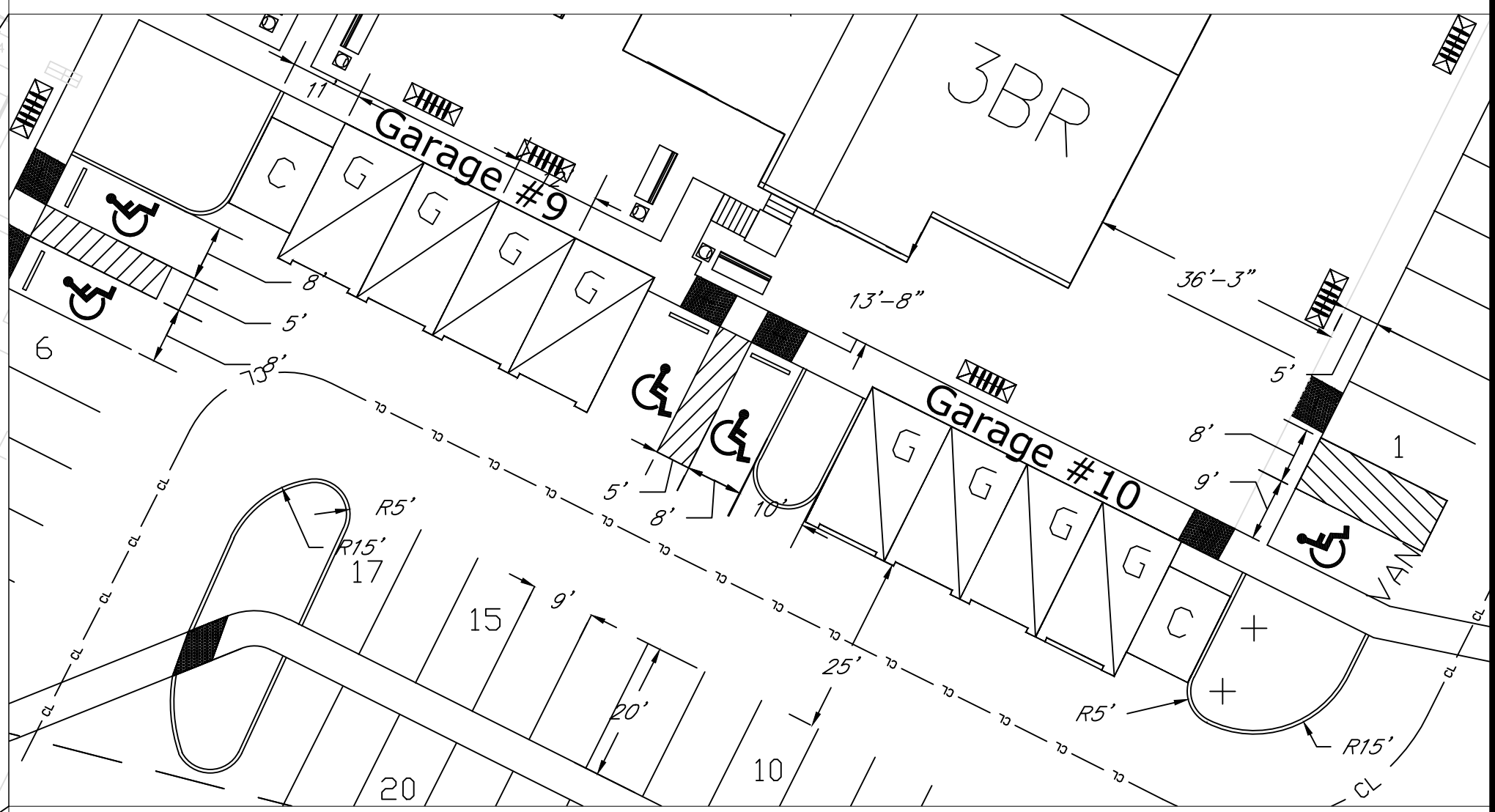
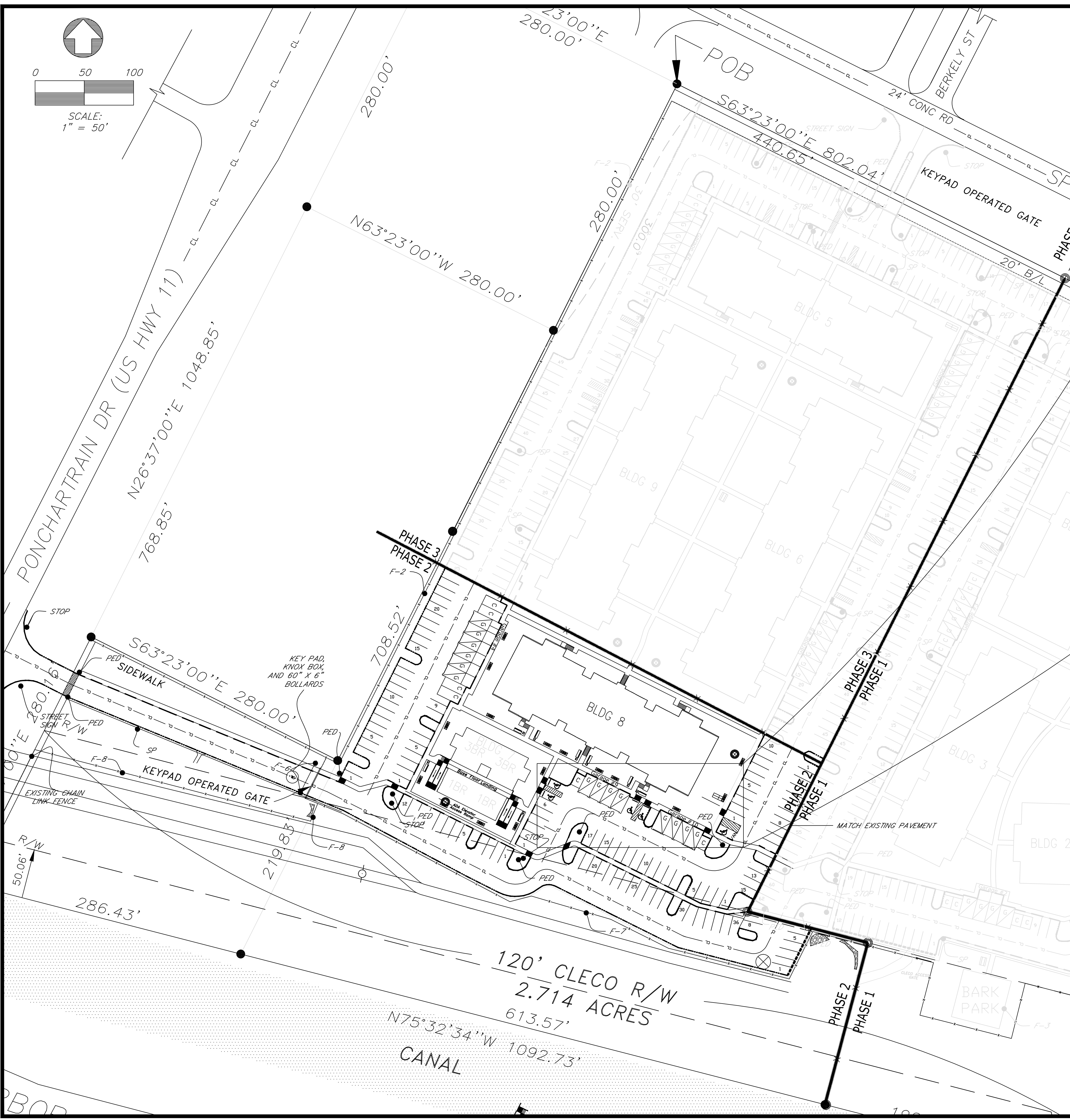


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NO.	DATE	REVISIONS	DESCRIPTION
1	3/2012		Buildings 7 & 8
2			
3			

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 SHEET NO. 08 OF 15



- NOTES:**
1. BUILDING SIGNS SHALL BE ATTACHED TO THE FACE OF EACH BUILDING
  2. 4" CONCRETE PADS WITH 4" GRANULAR FILL UNDER ALL AMENITIES
  3. MAIL BOX PAD 8' X 12'
  4. BIKE RACK PADS 10' X 12'
  5. BENCH AND TRASH CAN PADS 5' X 12'

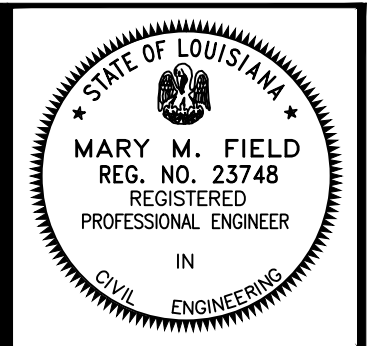
**LEGEND**

- HANDICAPED PARKING
- F-1 4' PAINTED ALUMINUM PICKET FENCE (BLACK)
- F-2 WOODEN PRIVACY FENCE, TOP ELEVATION 6 FT ABOVE HIGHEST GROUND ELEVATION POINT
- F-3 4' VINYL COATED CHAIN LINK (BLACK)
- F-4 8' VINYL COATED CHAIN LINK (BLACK)
- F-5 6' PAINTED ALUMINUM PICKET FENCE (BLACK)
- F-6 PAINTED METAL AUTOMATIC GATE (BLACK)
- F-7 6" MIN. WOOD PRIVACY FENCE
- F-8 CHAIN LINK TO MATCH EXISTING CITY FENCE
- SP SPEED LIMIT SIGN (10 MPH)
- PED PEDESTRIAN CROSSING SIGN
- STOP STOP SIGN
- CONSTRUCTION DUMPSTER
- BIKE RACK
- BENCH AND TRASH BIN
- PICNIC TABLE (BROWN)
- MAILBOXES
- PET CLEAN UP STATION
- PARKING BUMPER
- SIDEWALK W/ CURB
- EXTRUDED CURB

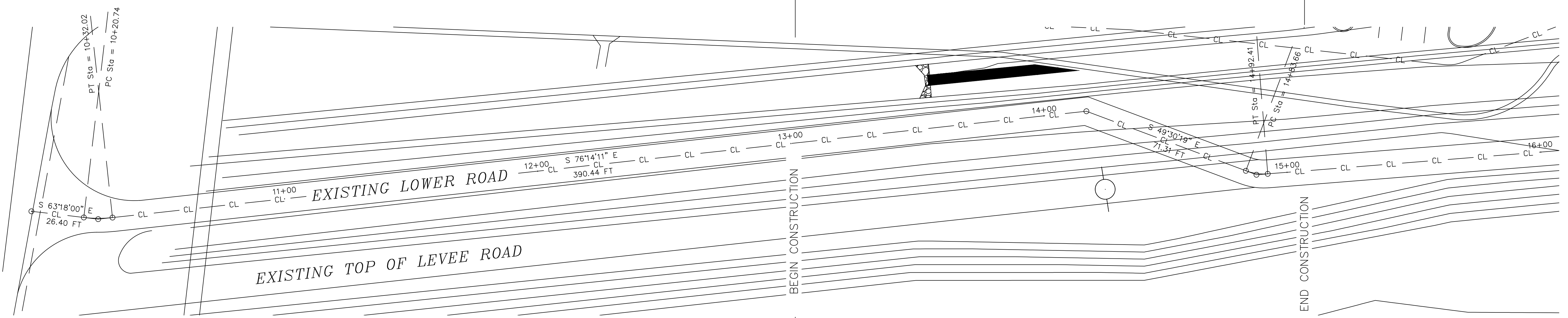
**AMENITY PLAN**

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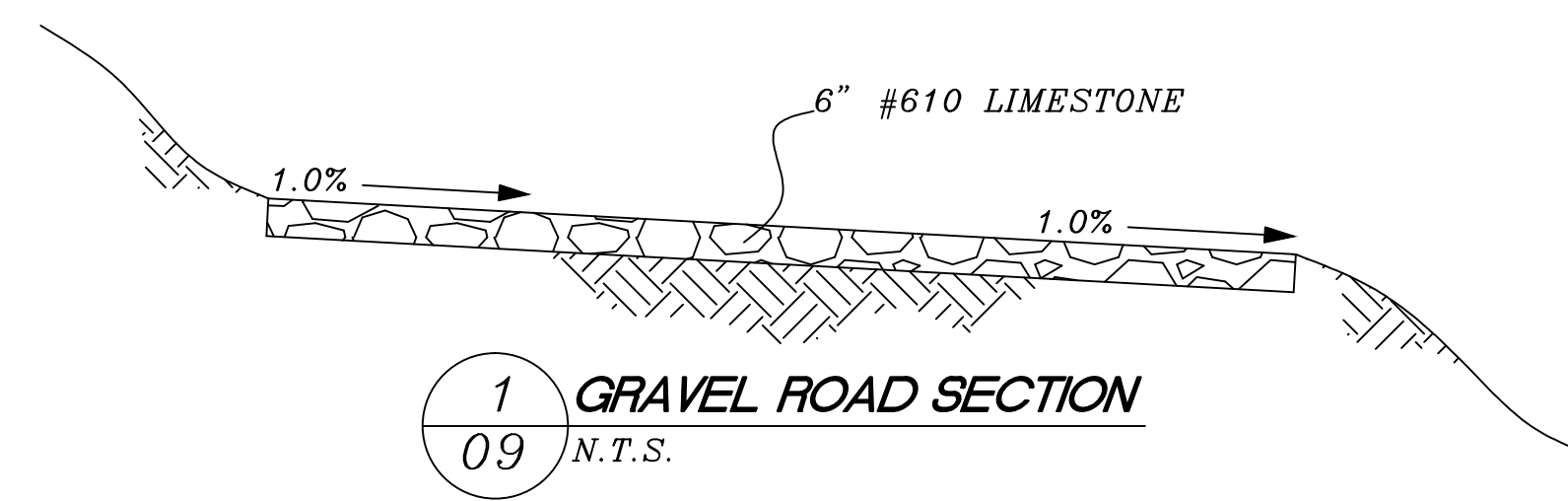
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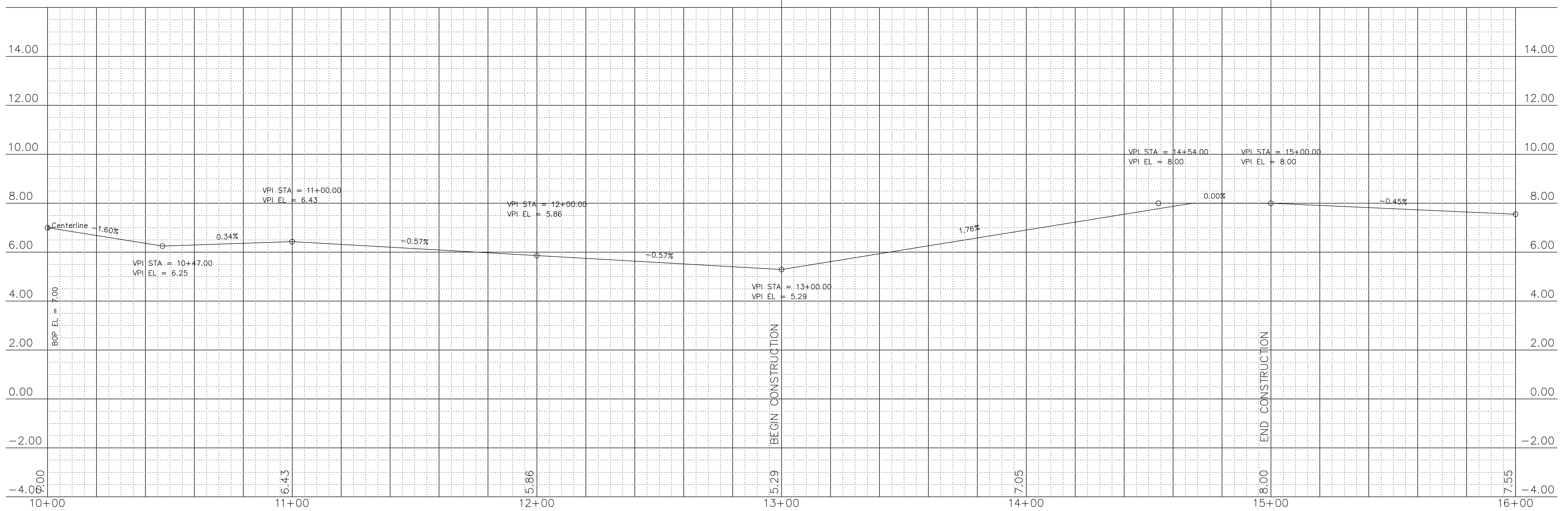
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SCALES:  
 1" = 20' HOR  
 1" = 2' VER



- NOTES:
- 1) CITY OF SLIDELL SHALL HAVE UNIMPEDED ACCESS TO THE PUMP STATION DURING CONSTRUCTION.
  - 2) PAVEMENT MATERIAL SHALL BE # 610 LIMESTONE 6" DEPTH



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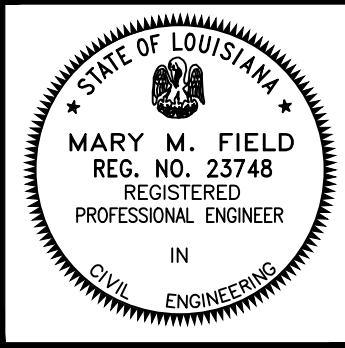
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**GRAVEL SERVICE RD. (SECTION 1)**



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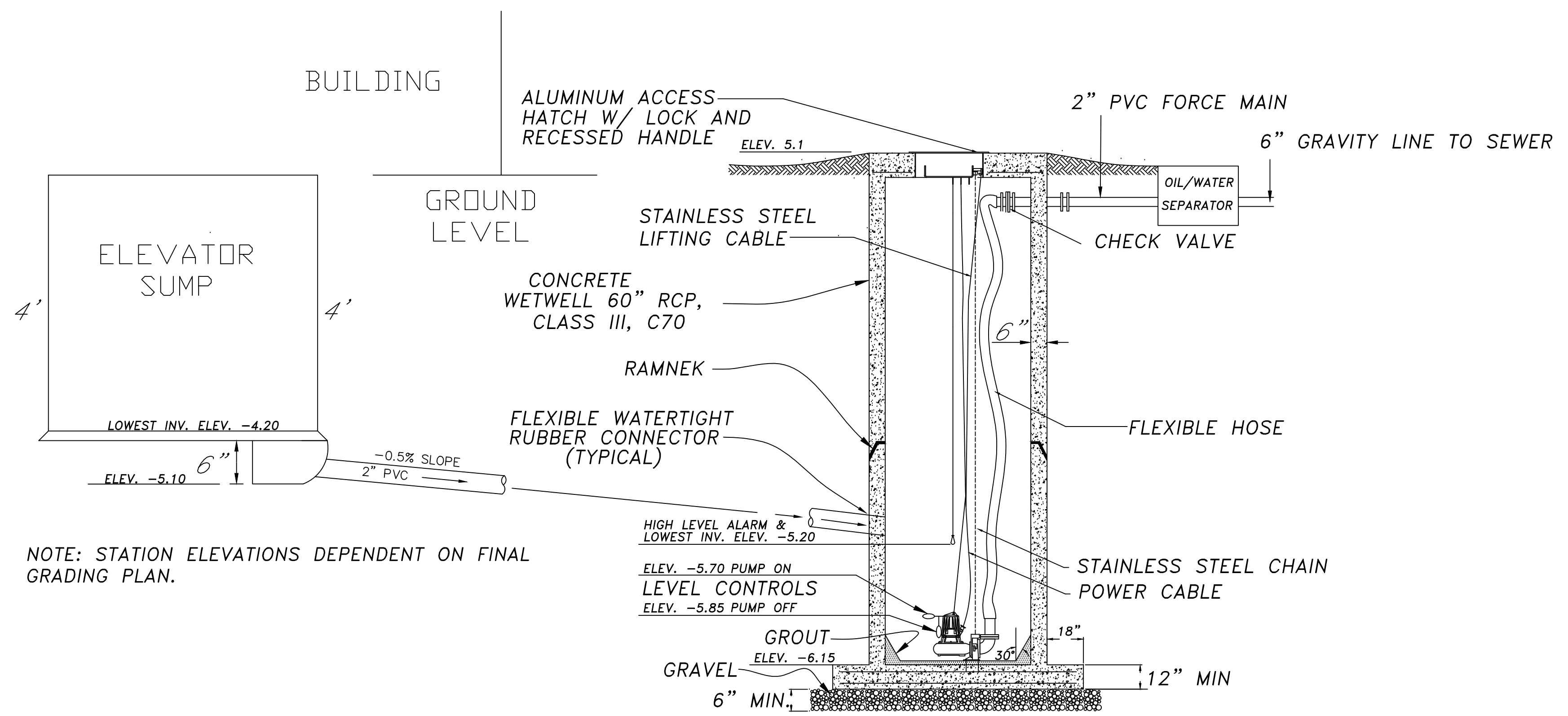


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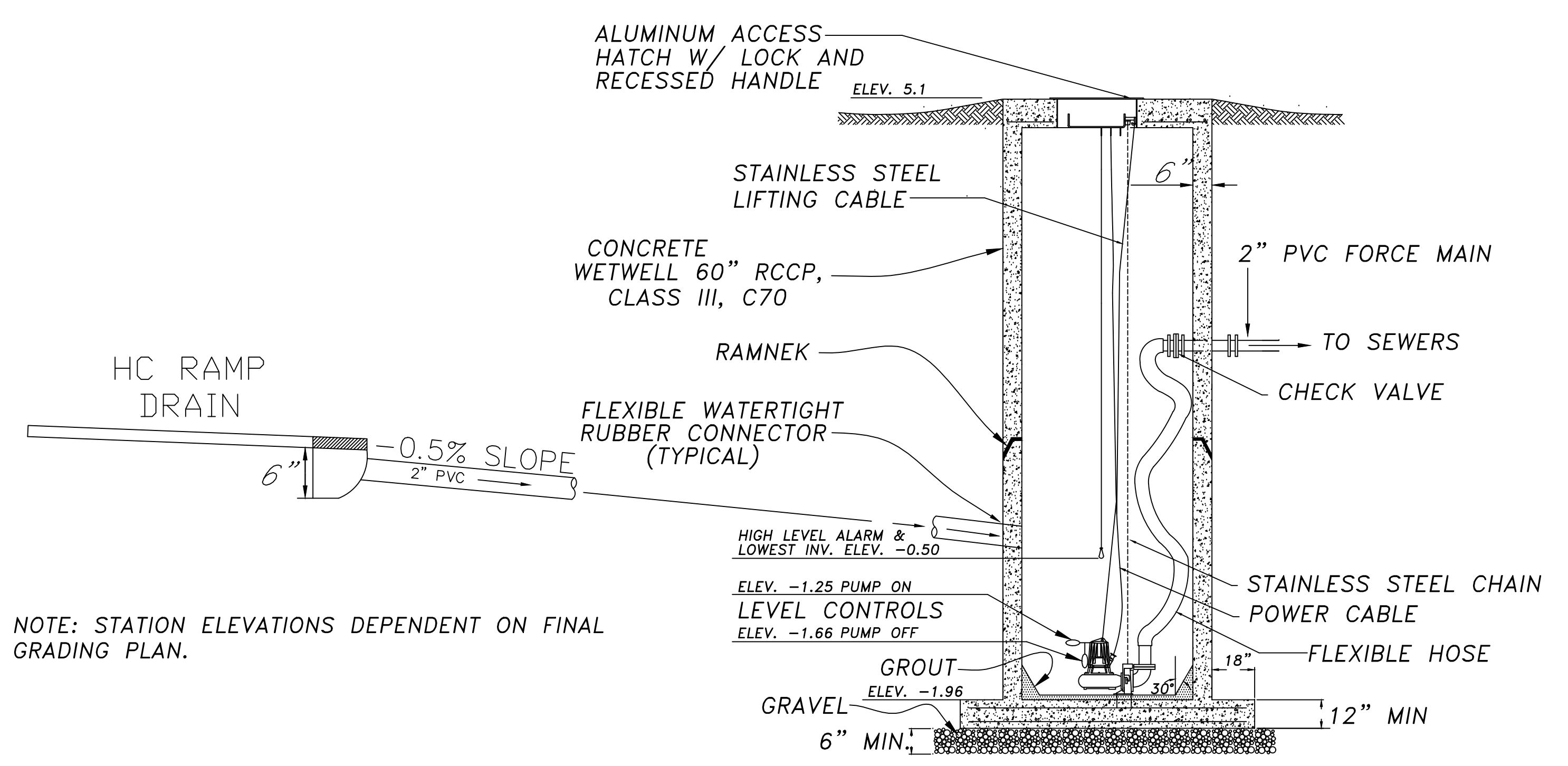
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NOTE: STATION ELEVATIONS DEPENDENT ON FINAL GRADING PLAN.

1 ELEVATOR SUMP STATION SECTION  
 11 N.T.S.



NOTE: STATION ELEVATIONS DEPENDENT ON FINAL GRADING PLAN.

2 BLDG. 7 HANDICAP RAMP ACCESS SUMP  
 11 N.T.S.

ELEVATOR & RAMP SUMPS (BLDG.1) GENERAL NOTES:

- 1) ALL EXPOSED METAL SHALL BE PAINTED WITH 2 COATS OF EXTERIOR ENAMEL PAINT.
- 2) BASE AND FIRST RISER UNIT TO BE CAST MONOLITHIC.
- 3) ALL LOCATIONS WHERE PIPES ENTER OR LEAVE THE WET WELL SHALL BE MADE WATERTIGHT WITH WALL SLEEVE OR NON SHRINK GROUT.
- 4) THERE SHALL BE NO VALVES OR ELECTRICAL JUNCTION BOXES IN THE WET WELL.
- 5) WET WELL ACCESS HATCH SHALL BE ALUMINUM WITH 316 SS HARDWARE AND LOCK HASP; US FOUNDRY TYPE TPD-300 OR EQUAL.
- 6) FLEXIBLE COUPLING SHALL BE SLEEVE TYPE.
- 7) PUMPS SHALL BE:

RAMP SUMP	
MANUFACTURER:	ZOELLER
MODEL:	M57 WITH HIGH LEVEL ALARM
IMPELLER:	CAST IRON
SPEED:	1,550 RPM
DISCHARGE SIZE:	1.5" NPT VERTICAL
VOLTAGE:	115 VOLT
PHASE:	SINGLE PHASE
HORSEPOWER:	0.3 BHP
MIN. SOLID SIZE:	1/2"
OPERATING CONDITIONS SHALL BE <u>30</u> GPM AT <u>8</u> FEET TDH.	

ELEVATOR SUMP	
MANUFACTURER:	ZOELLER
MODEL:	M57 WITH HIGH LEVEL ALARM
IMPELLER:	CAST IRON
SPEED:	1,550 RPM
DISCHARGE SIZE:	1.5" NPT VERTICAL
VOLTAGE:	115 VOLT
PHASE:	SINGLE PHASE
HORSEPOWER:	0.3 BHP
MIN. SOLID SIZE:	1/2"
OPERATING CONDITIONS SHALL BE <u>30</u> GPM AT <u>10</u> FEET TDH.	
NOTE: OIL/WATER SEPARATOR FLOW CAPACITY (GPM) SHALL MATCH PUMP CAPACITY (GPM)	

- 8) ALL HARDWARE IN WET WELL AND VALVE VAULT TO BE STAINLESS STEEL.
- 9) ALL EXPOSED PIPES (ABOVE GROUND) SHALL BE DUCTILE IRON.
- 10) CONTRACTOR SHALL REPAIR ANY ITEMS DAMAGED DURING CONSTRUCTION (WATER LINES, STRUCTURES, ETC...) TO THE SATISFACTION OF THE ENGINEER.
- 11) CONTRACTOR SHALL INCLUDE IN HIS PRICE SUPERVISION OF THE STARTUP OF THE PUMP STATIONS BY FACTORY TRAINED PERSONNEL.
- 12) CONTRACTOR TO PROVIDE COMPLETE WORKING PUMP STATIONS.
- 13) PUMP STATIONS ON-SITE WILL BE PRIVATELY OWNED AND MAINTAINED.
- 14) ALL ELECTRICAL OUTLETS, SWITCHES, BREAKERS, ETC. SHALL BE LOCATED IN CLUBHOUSE/RENTAL OFFICE.
- 15) OIL/WATER SEPARATOR TO BE SIZED FOR 30 GPM TO MATCH PUMP OPERATING CONDITIONS (SEE ELEVATOR SUMP PUMP DETAILS IN ITEM 7) ABOVE. USE KLEERWATER™ OIL/WATER SEPARATOR OR EQUIVALENT (REFERENCE: <http://WWW.KLEERWATER.NET/BROCHURE.HTML>).

**ELEVATOR + HC RAMP SUMP DETAILS**

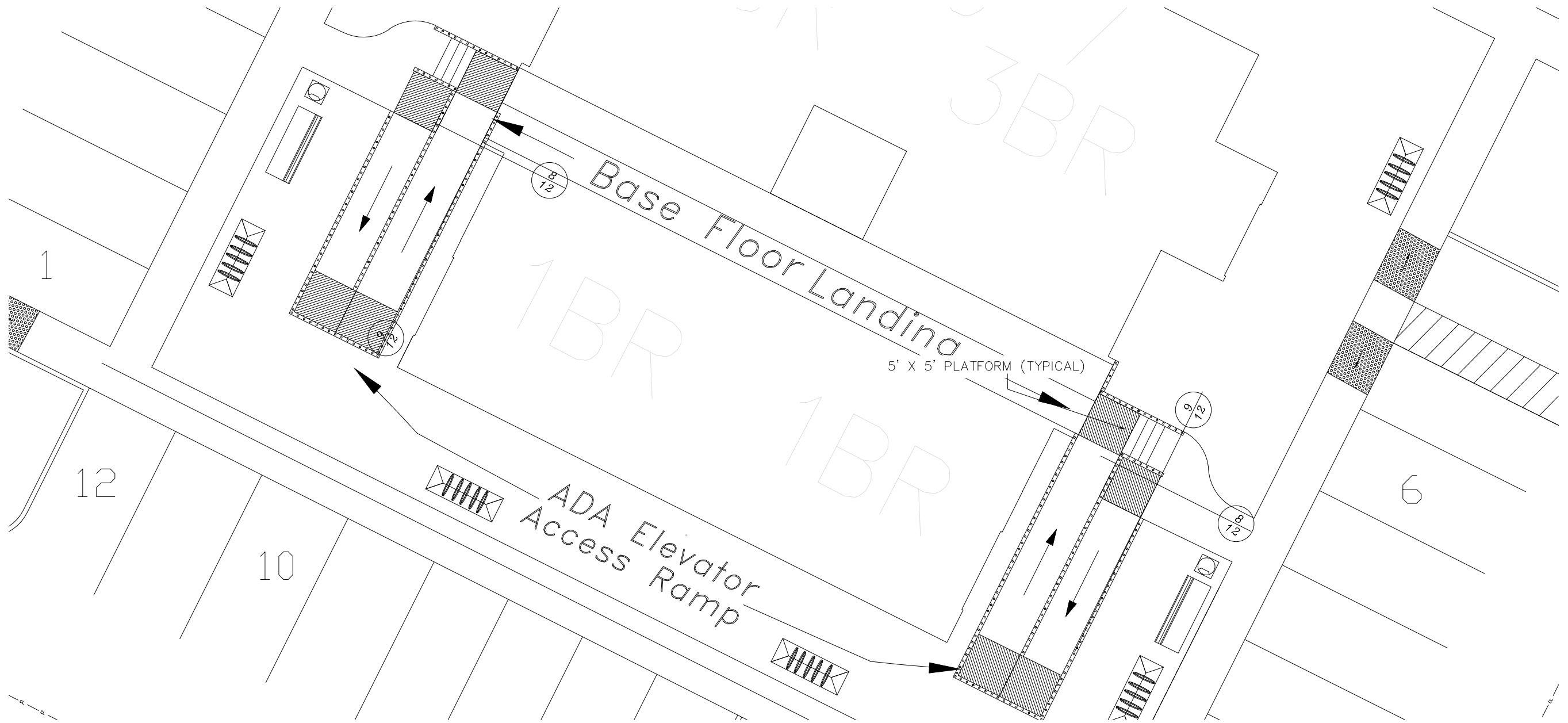


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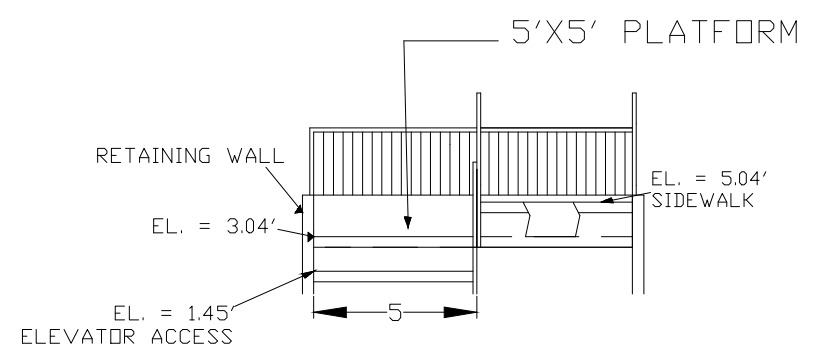
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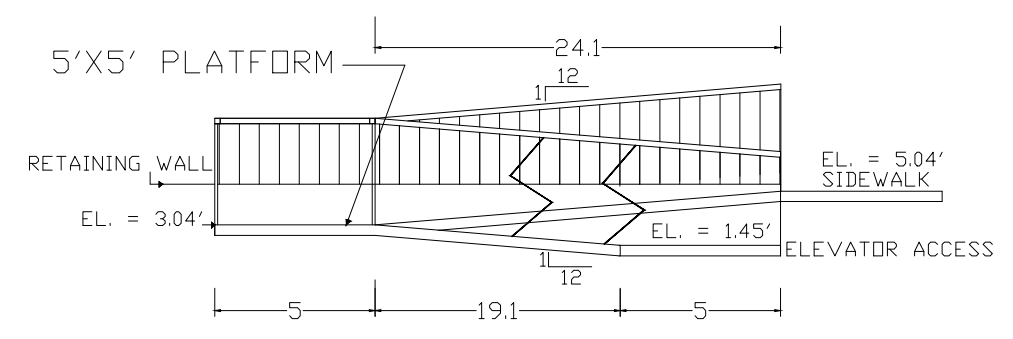


**7**  
**12**  
 HANDICAPPED RAMP TO ELEVATOR ACCESS - PLAN VIEW  
 SCALE: NTS

**NOTES**  
 1. HANDRAILS SHALL BE LOCATED 30"-34" HIGH AND SHALL EXTEND 1'-0" BEYOND THE TOP AND BOTTOM OF RAMP



**8**  
**12**  
 HANDICAPPED RAMP TO ELEVATOR ACCESS - ELEVATION  
 SCALE: NTS



**9**  
**12**  
 HANDICAPPED RAMP TO ELEVATOR ACCESS - ELEVATION  
 SCALE: NTS



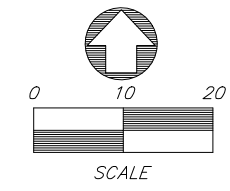
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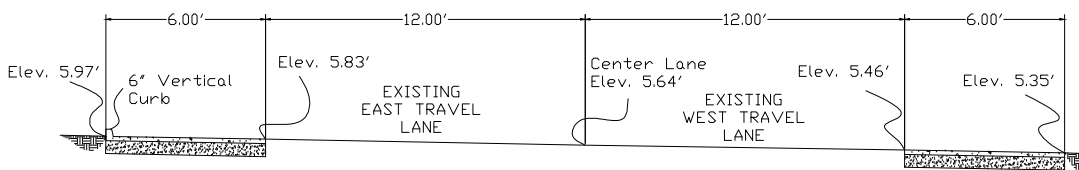
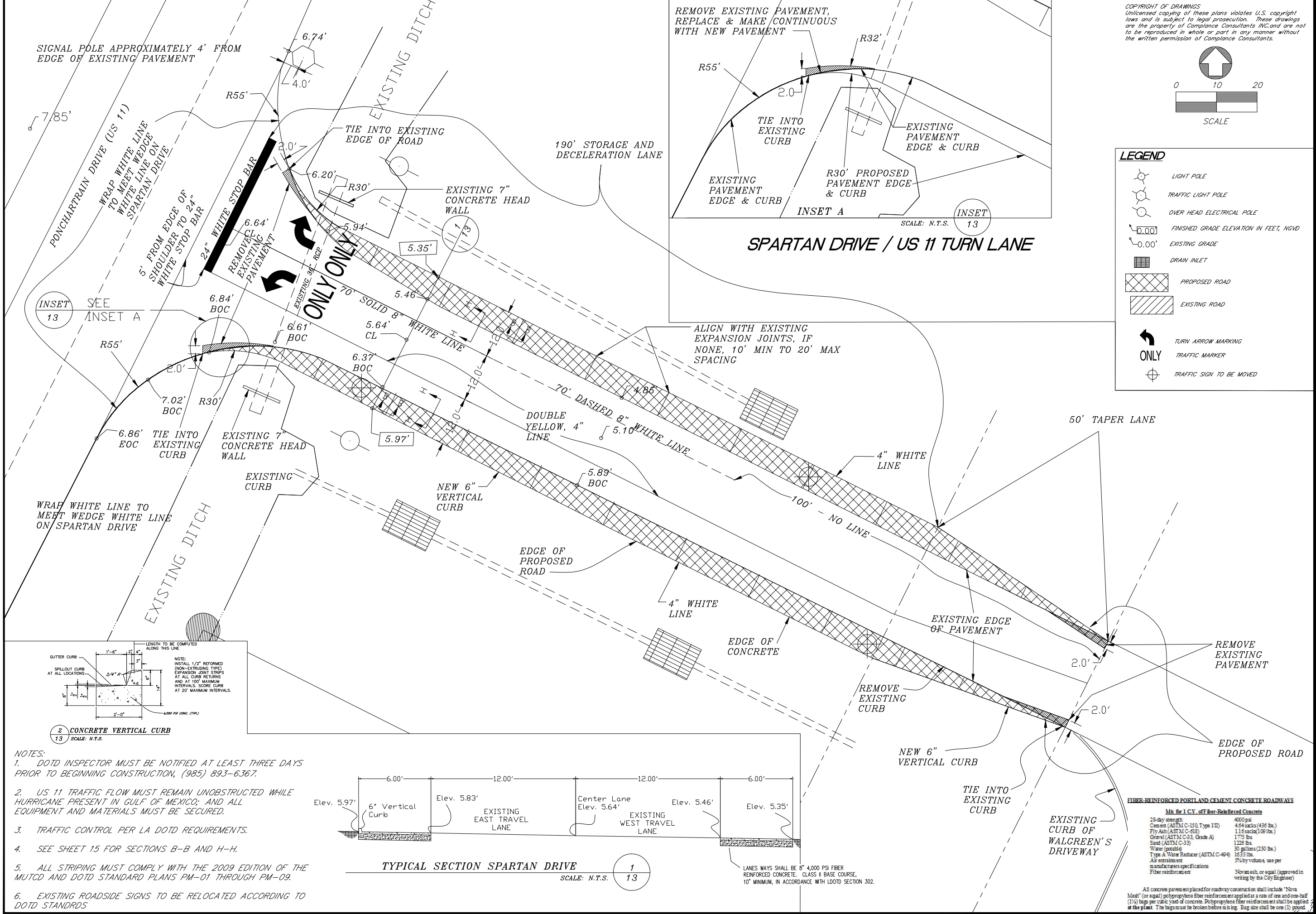
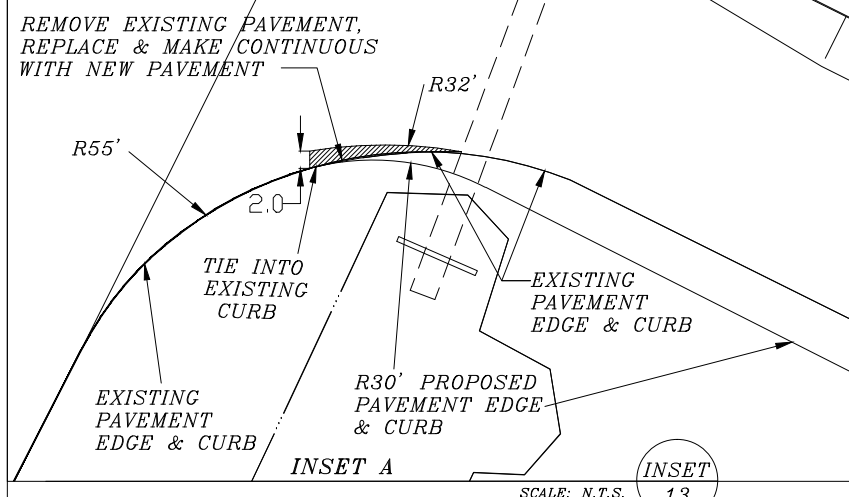
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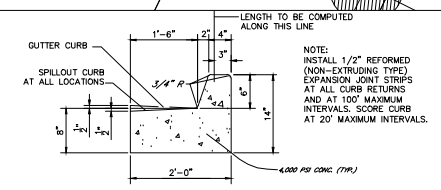


**LEGEND**

- LIGHT POLE
- TRAFFIC LIGHT POLE
- OVER HEAD ELECTRICAL POLE
- FINISHED GRADE ELEVATION IN FEET, NGVD
- EXISTING GRADE
- DRAIN INLET
- PROPOSED ROAD
- EXISTING ROAD
- TURN ARROW MARKING
- ONLY TRAFFIC MARKER
- TRAFFIC SIGN TO BE MOVED



**TYPICAL SECTION SPARTAN DRIVE**  
 SCALE: N.T.S. 13



**2 CONCRETE VERTICAL CURB**  
 13 SCALE: N.T.S.

- NOTES:**
- DOT INSPECTOR MUST BE NOTIFIED AT LEAST THREE DAYS PRIOR TO BEGINNING CONSTRUCTION, (985) 893-6367.
  - US 11 TRAFFIC FLOW MUST REMAIN UNOBSTRUCTED WHILE HURRICANE PRESENT IN GULF OF MEXICO; AND ALL EQUIPMENT AND MATERIALS MUST BE SECURED.
  - TRAFFIC CONTROL PER LA DOTD REQUIREMENTS.
  - SEE SHEET 15 FOR SECTIONS B-B AND H-H.
  - ALL STRIPING MUST COMPLY WITH THE 2009 EDITION OF THE MUTCD AND DOTD STANDARD PLANS PM-01 THROUGH PM-09.
  - EXISTING ROADSIDE SIGNS TO BE RELOCATED ACCORDING TO DOTD STANDARDS

**FIBER-REINFORCED PORTLAND CEMENT CONCRETE ROADWAYS**

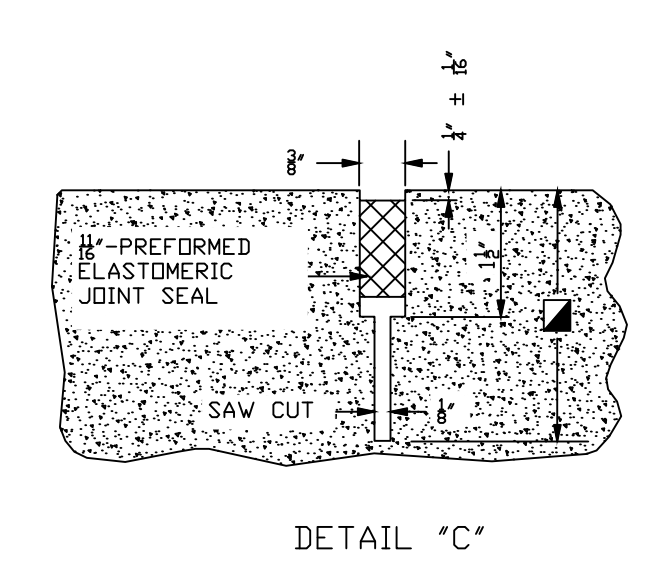
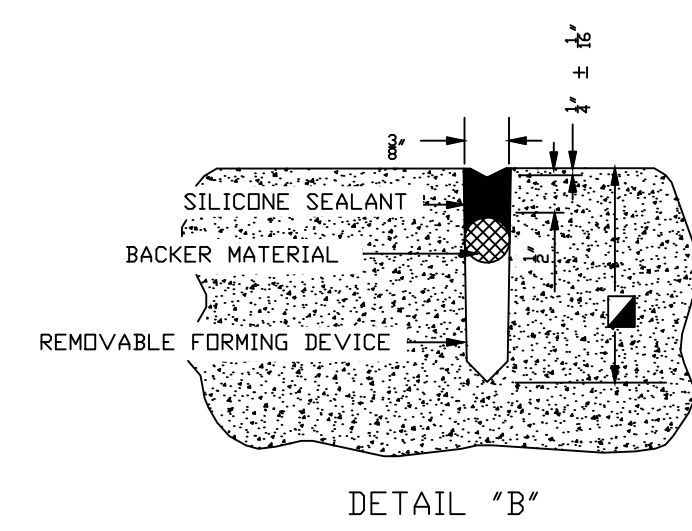
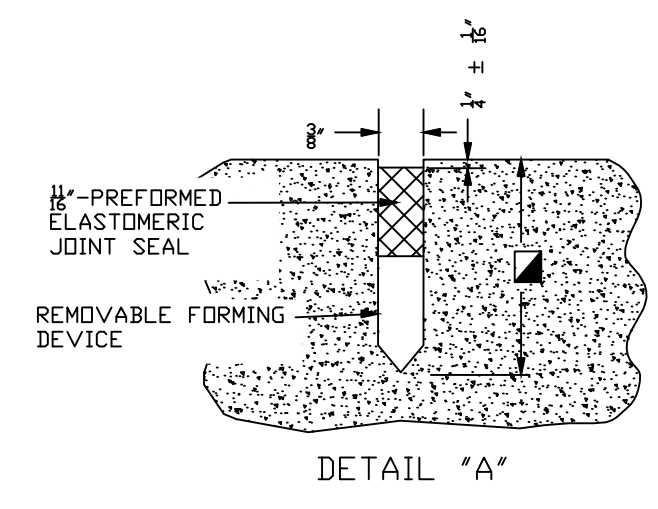
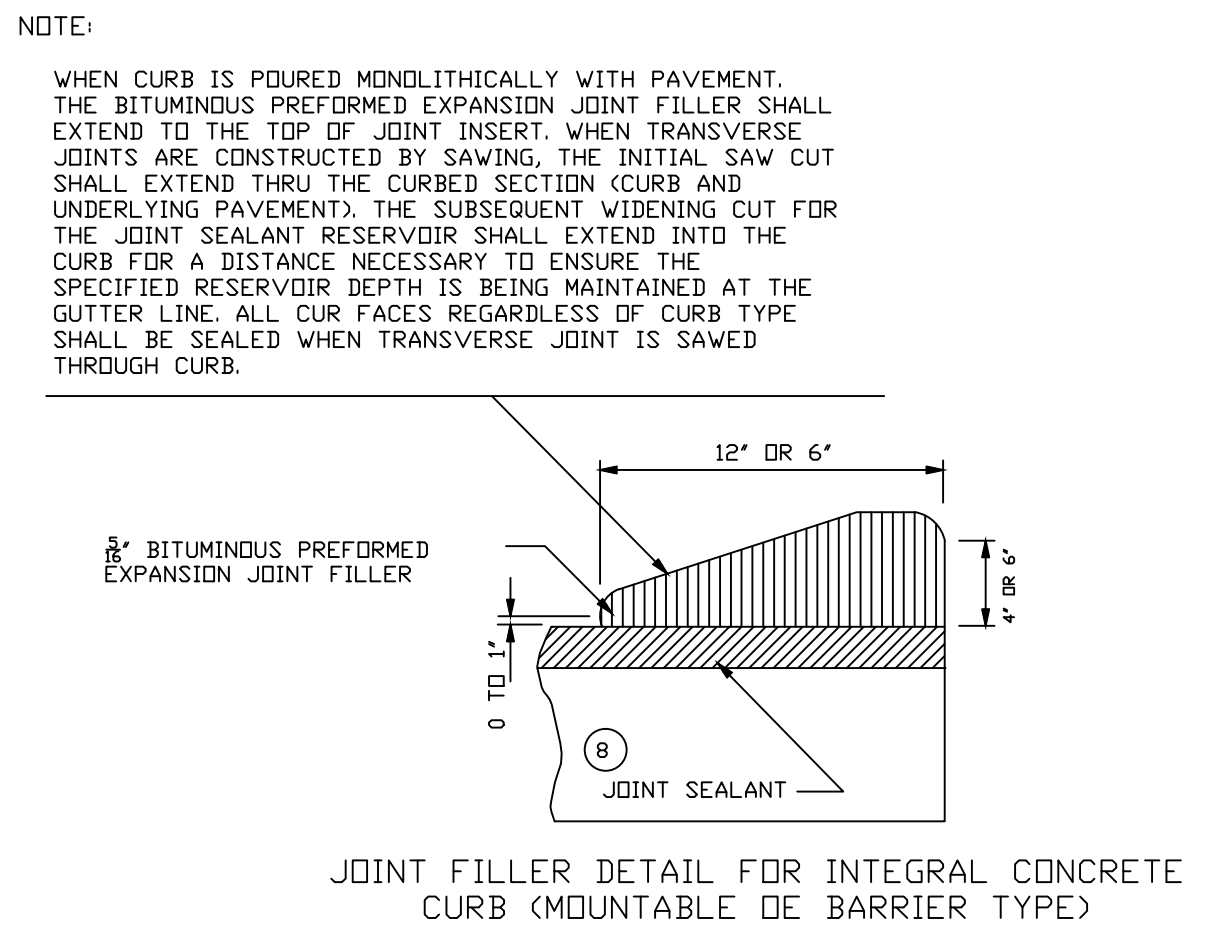
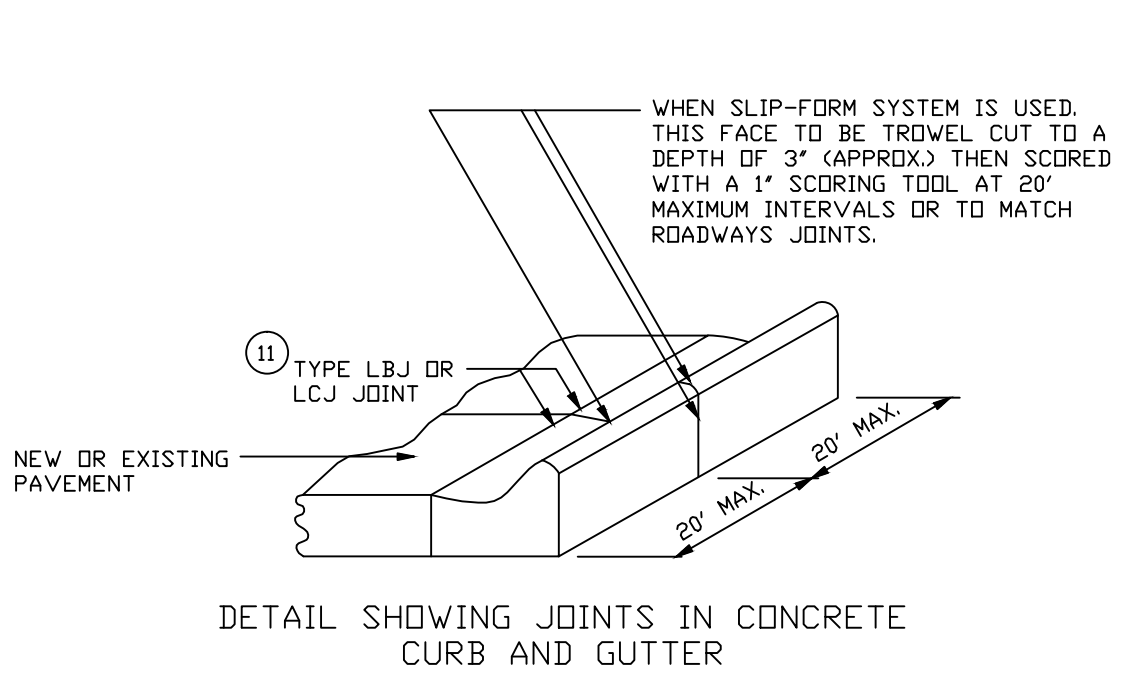
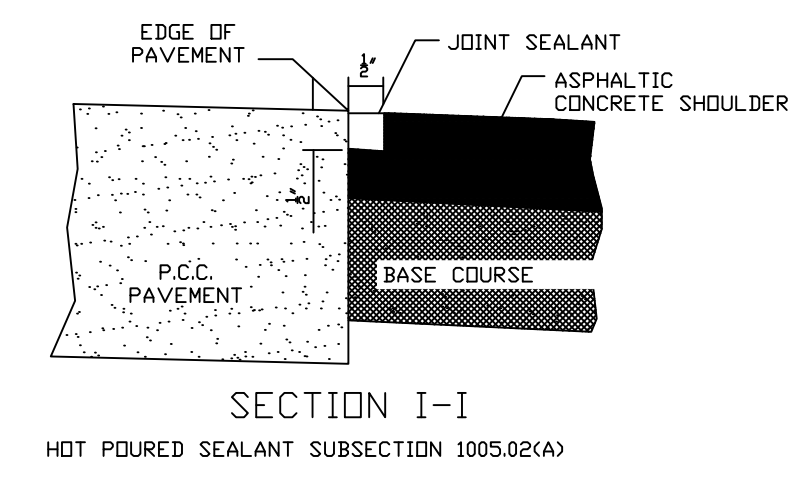
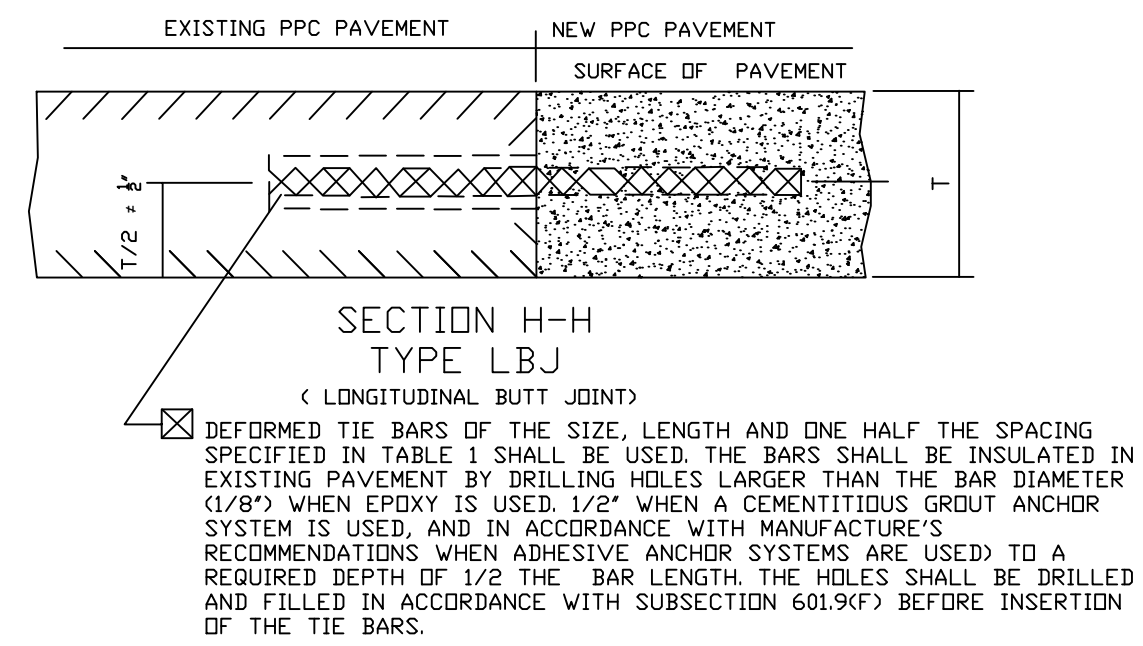
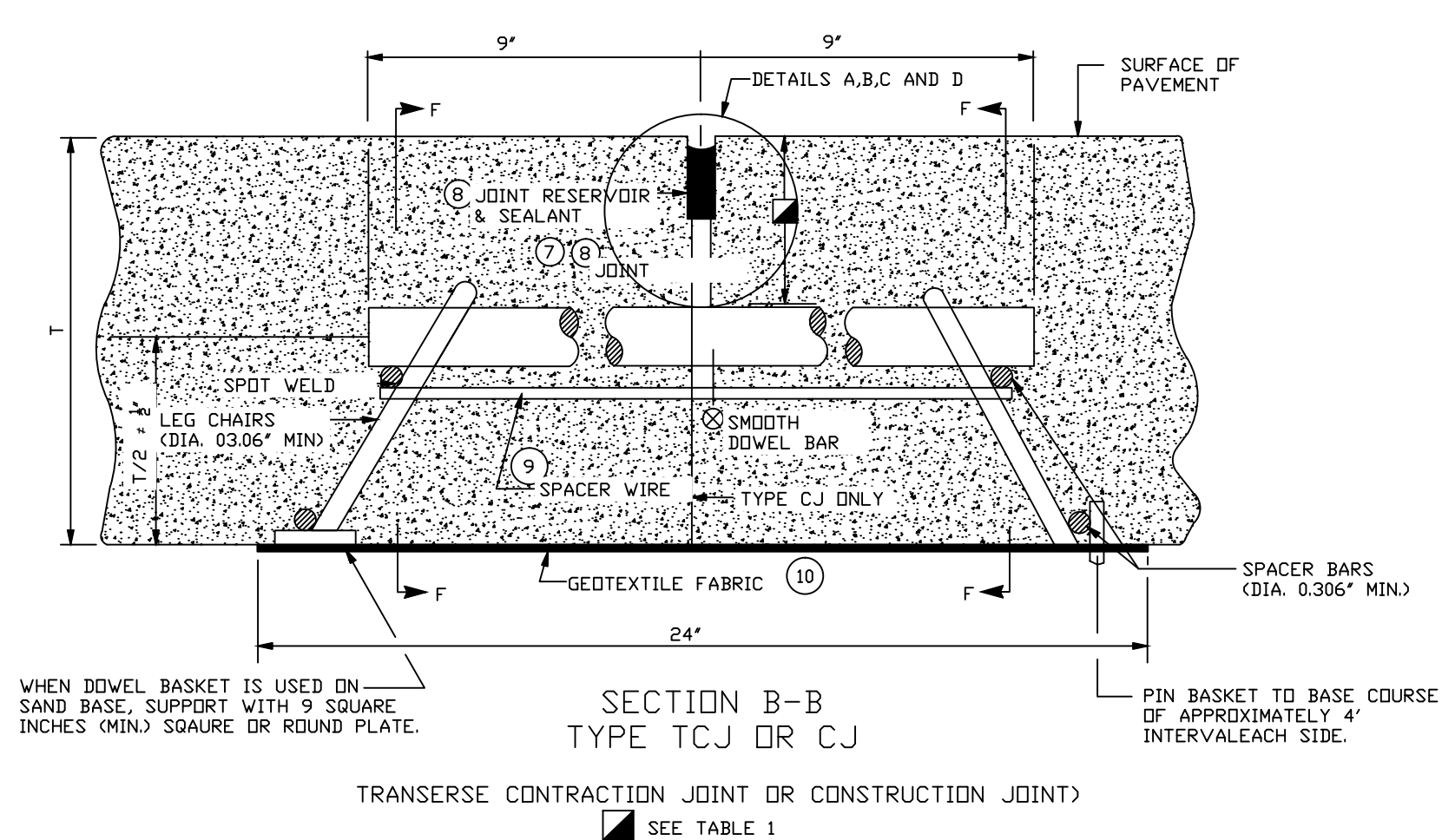
Mix for 1 CV of Fiber-Reinforced Concrete

28-day strength	4000 psi
Cement (ASTM C-150 Type I/II)	4.64 sacks (436 lbs.)
Fly Ash (ASTM C-618)	1.16 sacks (109 lbs.)
Gravel (ASTM C-33, Grade A)	1.75 lbs.
Sand (ASTM C-33)	1.25 lbs.
Water (potable)	30 gallons (250 lbs.)
Type A Water Reducer (ASTM C-494)	16.55 lbs.
Air entrainment	5% by volume, use per manufacturer's specifications
Fiber reinforcement	Nova Mesh, or equal (approved in writing by the City Engineer)

All concrete pavement placed for roadway construction shall include "Nova Mesh" (or equal) polypropylene fiber reinforcement applied at a rate of one and one-half (1 1/2) bags per cubic yard of concrete. Polypropylene fiber reinforcement shall be applied at the plant. The bags must be broken before mixing. Bag size shall be one (1) pound.

I:\Projects\111804\_Slidel\Construction\13 (Spartan Drive - US 11 Turn Lane).dwg





- NOTES:
- PAVEMENT EDGES SHALL BE SLIGHTLY ROUNDED (1/4" APPROX.).
  - ALL JOINTS TO BE USED WHERE SHOWN ON THIS SHEET OR AS SHOWN ELSEWHERE IN THE PLANS OR AS OTHERWISE DIRECTED BY THE ENGINEER.
  - FOR DESIGN SPEEDS OF 45mph OR LESS:
    - TYPE LJ JOINTS SHALL BE SAW CUT AND CONSTRUCTED AS IN DETAIL "F". THE JOINT SHALL BE SAW CUT AND CLEANED PRIOR TO SEALING WITH A JOINT SEALANT CONFORMING TO SUBSECTION 1005.02(A) OR (C).
    - TYPE TCJ OR CJ JOINTS SHALL BE CONSTRUCTED AS FOLLOWS:
      - TYPE TCJ OR CJ SHALL BE SAW CUT AS SHOWN IN DETAIL "C" OR "D" AND TO THE DEPTH SHOWN IN TABLE 1. THE JOINT SHALL BE SAND BLASTED AND CLEANED IMMEDIATELY PRIOR TO SEALING. THE INITIAL CUT SHALL BE MADE WITH 1/8" MINIMUM BLADE. THE SEALANT SHALL BE A PREFORMED ELASTOMERIC SEAL IN ACCORDANCE WITH SUBSECTION 1005.03 OR A SILICONE SEALANT IN ACCORDANCE WITH SUBSECTION 1005.02(C).
      - WITH A REMOVABLE FORMING DEVICE AS SHOWN IN DETAILS "A" OR "B". THE JOINT SHALL BE SAND BLASTED AND CLEANED IMMEDIATELY PRIOR TO SEALING AND MAY REQUIRE SAWING TO ACHIEVE PROPER RESERVOIR DIMENSIONS.
      - WITH A COMBINATION JOINT FORMER/SEALER AS SHOWN IN DETAIL "E". THE SEALER SHALL CONFORM TO SUBSECTION 1005.04 AND BE INSTALLED IN ACCORDANCE WITH SUBSECTION 601.09(C)(3) AND NO ADDITIONAL SEALANT IS REQUIRED.
  - EXCEPT AS NOTED BELOW, DOWEL BARS AND TIE BARS SHALL BE HELD IN PLACE BY SUPPORTS SIMILAR TO THE ONES SHOWN, OR APPROVED EQUALS. APPROVED MECHANICAL PLACEMENT OF DOWEL BARS AND TIE BARS WILL BE ALLOWED WITH ALL PAVING METHODS. WHEN DOWEL BAR BASKETS ARE USED, APPROXIMATELY THE CENTER 7" OF SPACER WIRES, THAT SPAN ACCROSS THE JOINT, SHALL BE CLIPPED AND REMOVED AFTER STAKING BASKETS IN PLACE.
  - INSTALL GEOTEXTILE FABRIC UNDER ALL TCJ, CJ, AND EJ JOINTS WHEN CONCRETE PAVEMENT IS PLACED ON UNSTABILIZED OR UNTREATED BASE COURSES OR SUBBASES, WHEN DOWEL BARS ARE MECHANICALLY IMPLANTED THE GEOTEXTILE FABRIC SHALL BE ANCHORED TO THE BASE COURSE WITH PINS.
  - WHEN CONSTRUCTING CONCRETE CURB AND GUTTER ADJACENT TO NEW P.C.C. PAVEMENT, USE TYPE LCJ JOINT. WHEN ADJACENT TO EXISTING P.C.C. PAVEMENT, USE TYPE LBJ JOINT. THE FIRST LOAD TRANSFER DEVICE SHALL BE INSTALLED 18" FROM THE PAVEMENT EDGE.
  - TRANSVERSE EXPANSION JOINTS ARE NOT TO BE USED FOR CONSTRUCTION JOINTS.
  - CONCRETE SHOULDERS:
    - CONSTRUCT TCJ JOINTS IN ACCORDANCE WITH SECTION B-B.
    - CONSTRUCT LCJ JOINTS IN ACCORDANCE WITH TYPE LCJ DETAIL AND LJ JOINTS IN ACCORDANCE WITH SECTION D-D.
    - USE THE MAXIMUM SHOULDER THICKNESS WHEN DETERMINING DOWEL BAR AND TIE BAR SIZES IN TABLE 1.
    - WHEN SKEWED JOINTS ARE USED ON MAINLINE PAVING THE SHOULDER TCJ JOINTS MAY BE SKEWED OR CONSTRUCTED AT 90°.
    - SHOULDER JOINTS AND JOINT MATERIALS SHALL MATCH THE MAIN LINE.
    - HIGHT OF DOWEL BASKET SHALL BE BASED ON THE THINNEST SHOULDER THICKNESS. ALSO VARYING HEIGHT DOWEL BASKETS WILL BE ALLOWED.
  - TIEBARS SHALL NOT BE PLACED WITHIN 18" OF CONTRACTION OR EXPANSION JOINTS.

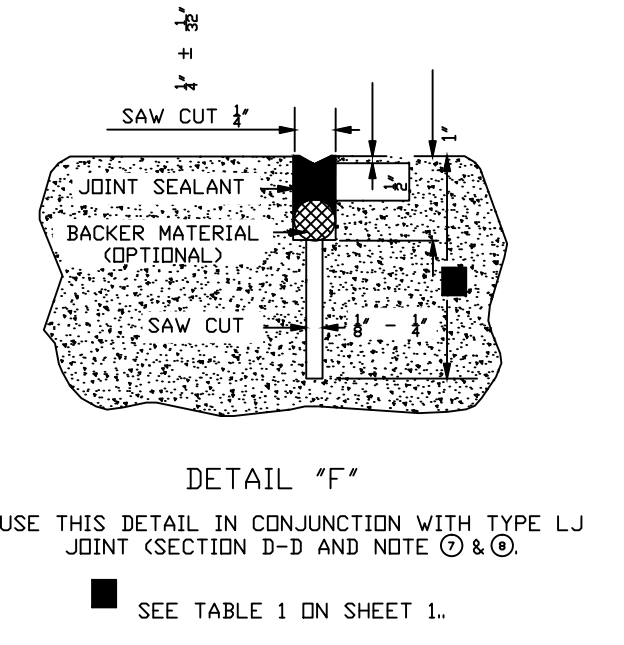
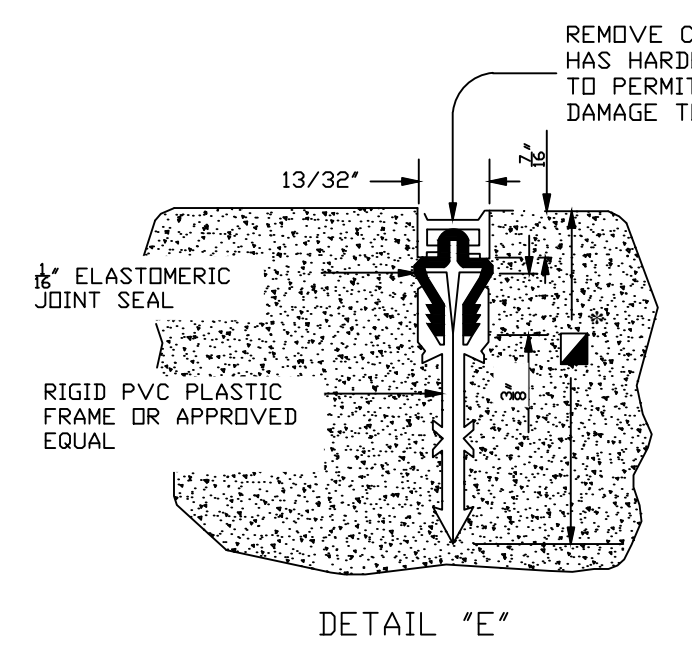
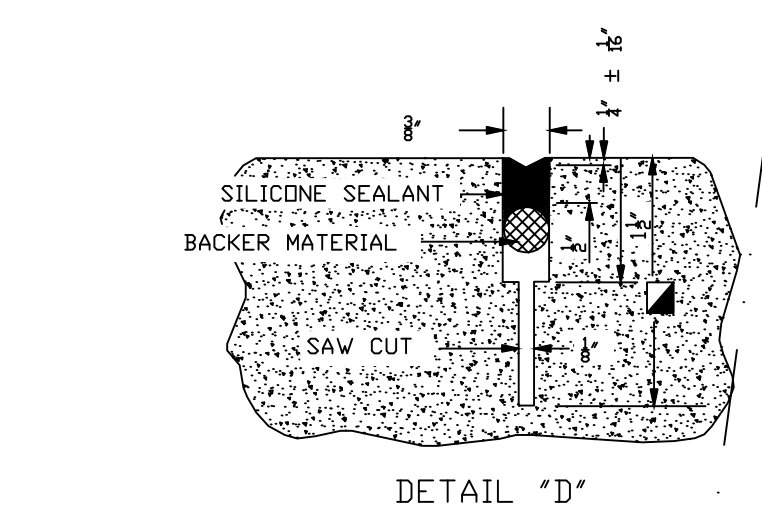
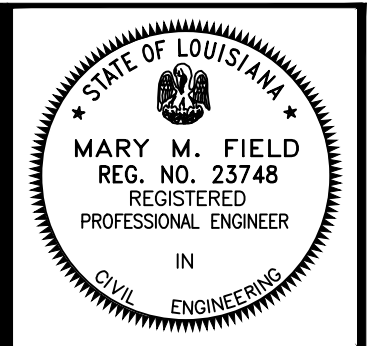


TABLE 1  
(ALL DIMENSIONS ARE IN INCHES)

PAVEMENT THICKNESS	SMOOTH DOWEL BARS			DEF. TIE BARS			MINIMUM DEPTH OF JOINT		KEYWAY	
	SIZE	LENGTH	SPACING	SIZE	LENGTH	SPACING	TCJ & CJ	LJ	A	B
8	1 1/4	18	12	1/2	24	24	2 3/4*	3	2 1/2	1 1/4
9	1 1/4	18	12	1/2	24	24	3 *	3 1/2	2 1/2	1 1/4
10	1 1/2	18	12	1/2	24	24	3 1/2 *	4	2 1/2	1 1/4
11	1 1/2	18	12	5/8	30	24	3 1/2	4	2 1/2	1 1/4
12	1 1/2	18	12	5/8	30	24	4	4 1/2	3	1 1/2
13	1 1/2	18	12	5/8	30	24	4	4 1/2	3	1 1/2
14	1 1/2	18	12	5/8	30	24	4 1/2	5	3	1 1/2

\* SEE DETAIL "E"

CURB AND JOINT DETAIL



COMPLIANCE CONSULTANTS, INC.  
14666 South Harrelis Ferry Road  
Baton Rouge, Louisiana 70816

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		

CANTERBURY HOUSE II-SLIDELL  
A PROJECT OF:  
CANTERBURY HOUSE II-SLIDELL, LLC

CHECKED BY  
MF  
DATE  
SEPT 2011  
SHEET NO.  
15 OF 15

# *CANTERBURY HOUSE II-SLIDELL, LA.*

*A PROJECT OF:*

*CANTERBURY HOUSE II- SLIDELL, LLC*

PREPARED BY:

**HERB ROGERS, RLA, ASLA**

16415 COLISEUM AVE.

BATON ROUGE, LA 70816

## *SCHEDULE OF DRAWINGS*

COVER SHEET

P2-2 MASTER PLANTING PLAN

P2-3 BUILDING 7 DETAIL PLAN

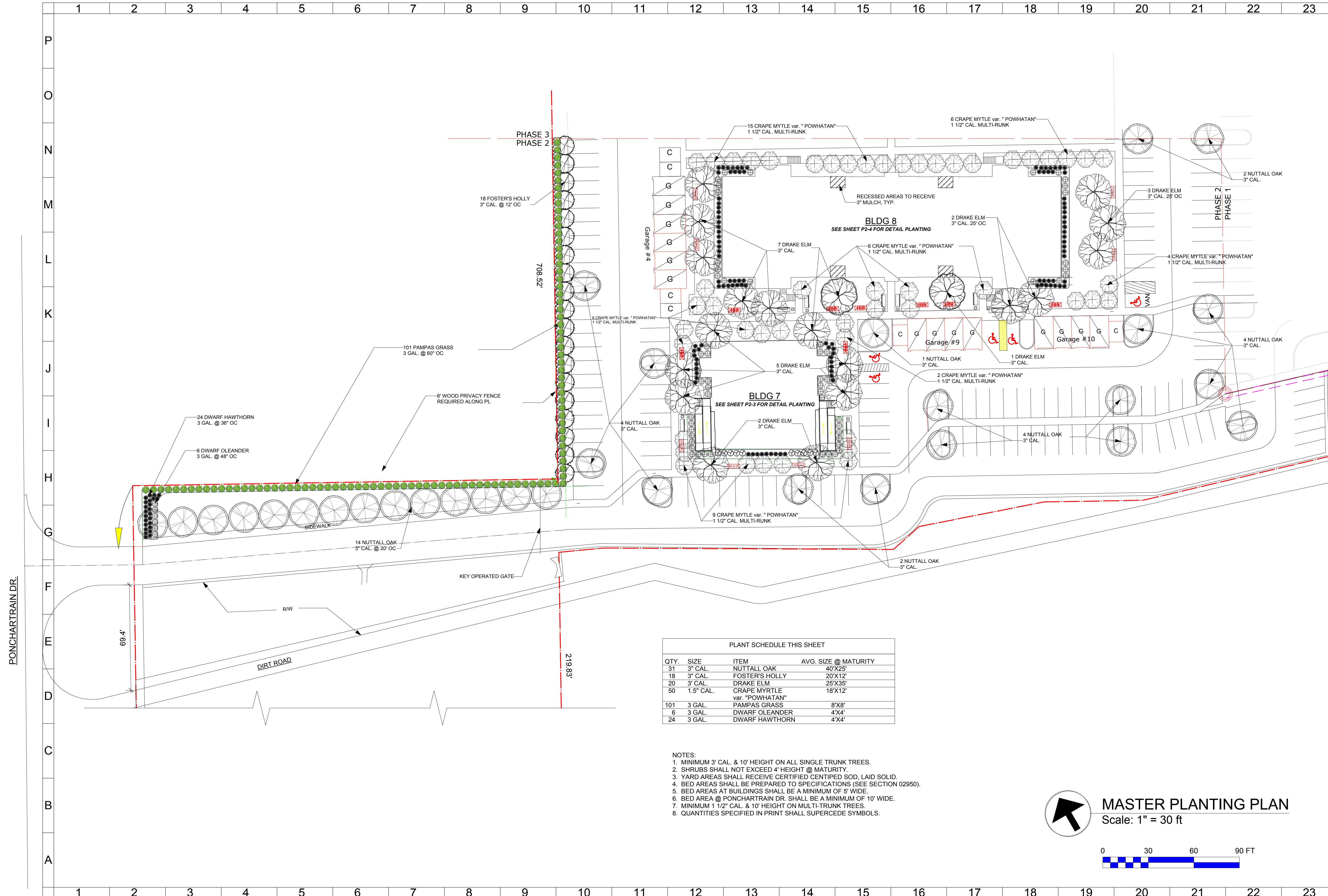
P2-4 BUILDING 8 DETAIL PLAN

### **Notes**

1Contractor shall review these plans thoroughly, make a detailed site visit, and shall immediately bring any inconsistency, site layout problem, or any other request for clarification to the architect for resolution prior to the delivery of any bid. Failure to do so shall cause the Contractor to be ineligible for extras relating to such matters.

HERB ROGERS, R.L.A.  
 LANDSCAPE ARCHITECT  
 LAND PLANNER  
 CLARB CERTIFIED #6598  
 LA. REG. # R-242  
 16415 COLISEUM AVE.  
 BATON ROUGE, LA 70816  
 (225) 806-1967  
 herbrogers@gmail.com

**CANTERBURY HOUSE II-SLIDELL, LA.**  
 A PROJECT OF:  
**CANTERBURY HOUSE II- SLIDELL, LLC**

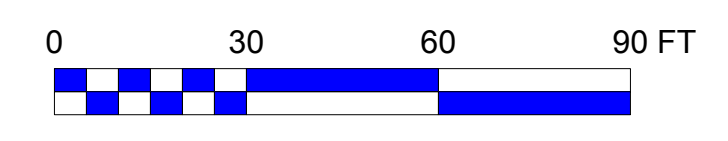


PLANT SCHEDULE THIS SHEET

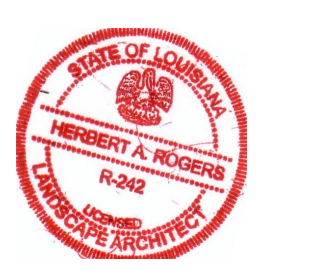
QTY.	SIZE	ITEM	AVG. SIZE @ MATURITY
31	3" CAL.	NUTTALL OAK	40'X25'
18	3" CAL.	FOSTER'S HOLLY	20'X12'
20	3" CAL.	DRAKE ELM	25'X35'
50	1.5" CAL.	CRAPE MYRTLE var. "POWHATAN"	18'X12'
101	3 GAL.	PAMPAS GRASS	8'X8'
6	3 GAL.	DWARF OLEANDER	4'X4'
24	3 GAL.	DWARF HAWTHORN	4'X4'

- NOTES:
1. MINIMUM 3" CAL. & 10' HEIGHT ON ALL SINGLE TRUNK TREES.
  2. SHRUBS SHALL NOT EXCEED 4' HEIGHT @ MATURITY.
  3. YARD AREAS SHALL RECEIVE CERTIFIED CENTIFED SOD, LAID SOLID.
  4. BED AREAS SHALL BE PREPARED TO SPECIFICATIONS (SEE SECTION 02950).
  5. BED AREAS AT BUILDINGS SHALL BE A MINIMUM OF 5' WIDE.
  6. BED AREA @ PONCHARTRAIN DR. SHALL BE A MINIMUM OF 10' WIDE.
  7. MINIMUM 1 1/2" CAL. & 10' HEIGHT ON MULTI-TRUNK TREES.
  8. QUANTITIES SPECIFIED IN PRINT SHALL SUPERCEDE SYMBOLS.

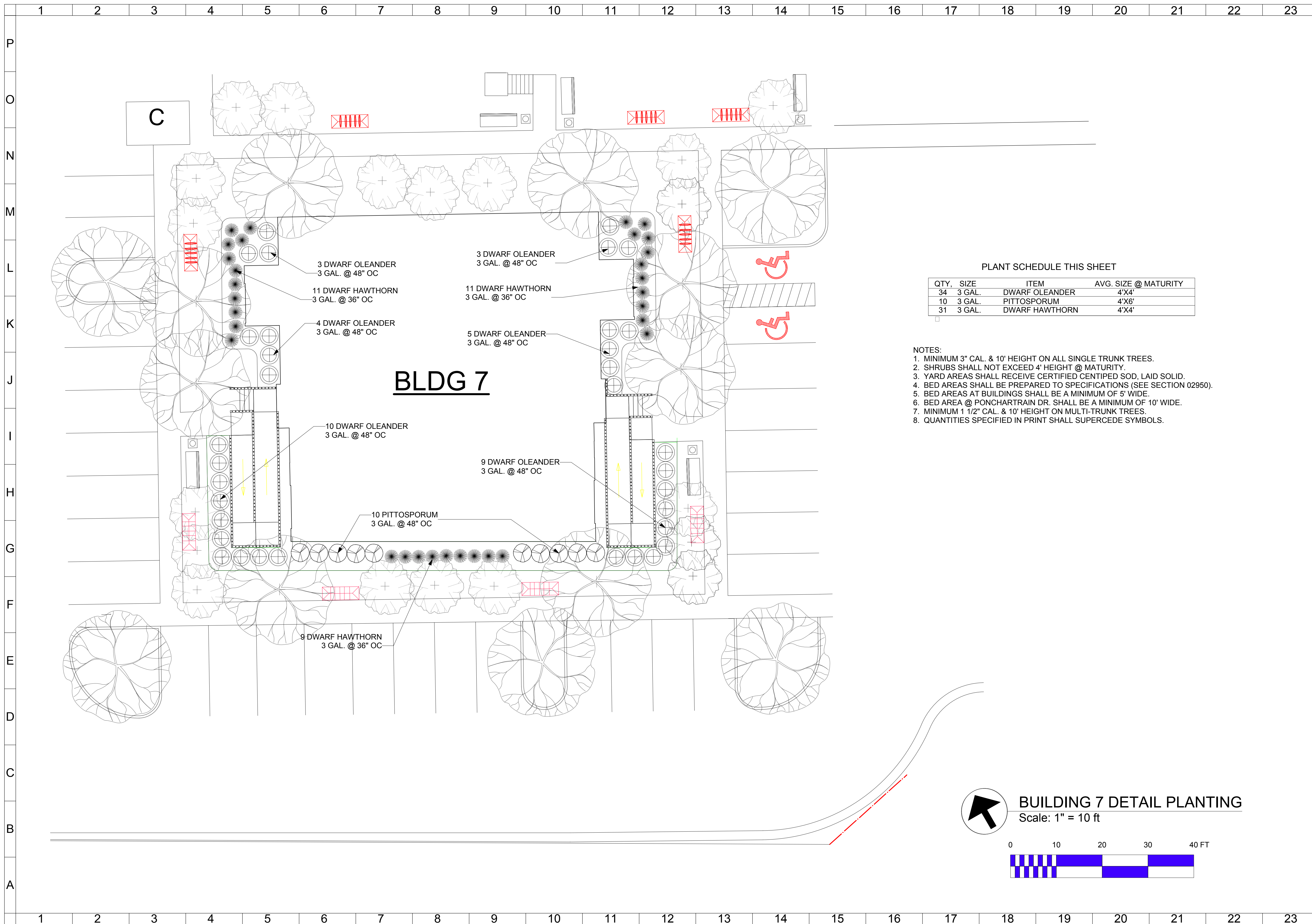
**MASTER PLANTING PLAN**  
 Scale: 1" = 30 ft



REVISIONS 6.20.12	PROJ. NO.: -
	FILE:
	DRAWN BY: HAR



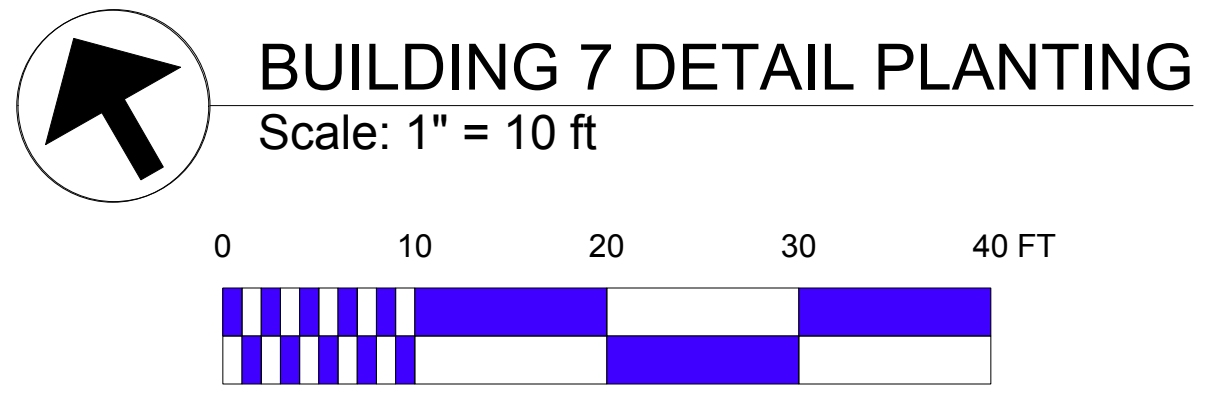
SHEET TITLE <b>P2-2</b>	SHEET 2 OF 4
	DATE: 5.2.12



PLANT SCHEDULE THIS SHEET

QTY.	SIZE	ITEM	AVG. SIZE @ MATURITY
34	3 GAL.	DWARF OLEANDER	4'X4'
10	3 GAL.	PITTOSPORUM	4'X6'
31	3 GAL.	DWARF HAWTHORN	4'X4'

- NOTES:
1. MINIMUM 3" CAL. & 10' HEIGHT ON ALL SINGLE TRUNK TREES.
  2. SHRUBS SHALL NOT EXCEED 4' HEIGHT @ MATURITY.
  3. YARD AREAS SHALL RECEIVE CERTIFIED CENTIPEE SOD, LAID SOLID.
  4. BED AREAS SHALL BE PREPARED TO SPECIFICATIONS (SEE SECTION 02950).
  5. BED AREAS AT BUILDINGS SHALL BE A MINIMUM OF 5' WIDE.
  6. BED AREA @ PONCHARTRAIN DR. SHALL BE A MINIMUM OF 10' WIDE.
  7. MINIMUM 1 1/2" CAL. & 10' HEIGHT ON MULTI-TRUNK TREES.
  8. QUANTITIES SPECIFIED IN PRINT SHALL SUPERCEDE SYMBOLS.



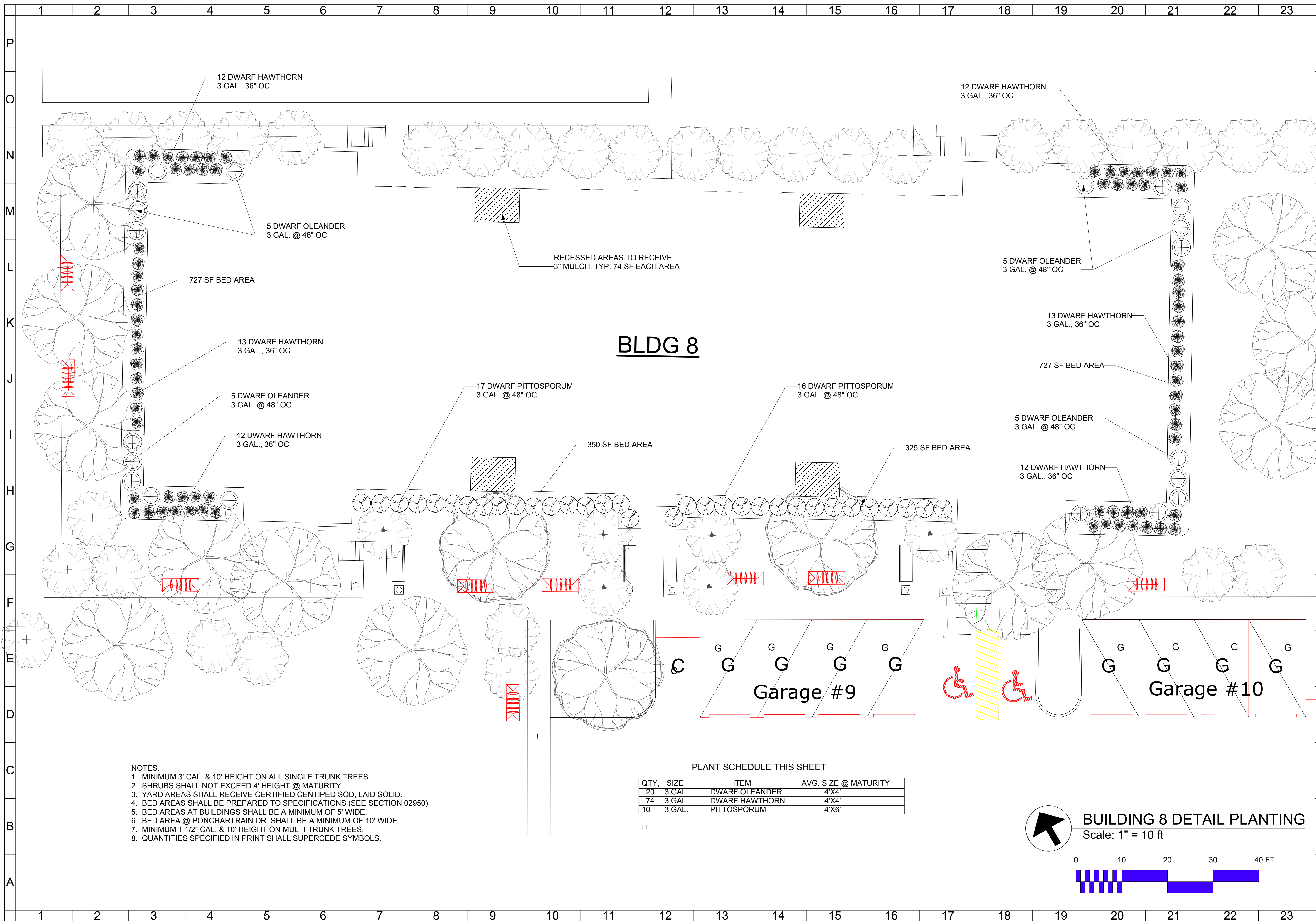
HERB ROGERS, R.L.A.  
LANDSCAPE ARCHITECT  
LAND PLANNER  
CLARB CERTIFIED #6598  
LA. REG. # R-242  
16415 COLISEUM AVE.  
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(225) 806-1967  
herbrogers@gmail.com

**CANTERBURY HOUSE II-SLIDELL, LA.**  
A PROJECT OF:  
**CANTERBURY HOUSE II-SLIDELL, LLC**

REVISIONS 6-12-12	PROJ. NO.: -
	FILE:
	DRAWN BY: HAR



SHEET TITLE <b>P2-3</b>	SHEET 3 OF 4	DATE 5.2.12
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HERB ROGERS, R.L.A.  
 LANDSCAPE ARCHITECT  
 LAND PLANNER  
 CLARB CERTIFIED #6598  
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 16415 COLISEUM AVE.  
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**CANTERBURY HOUSE II-SLIDELL, LA.**  
 A PROJECT OF:  
 CANTERBURY HOUSE II- SLIDELL, LLC

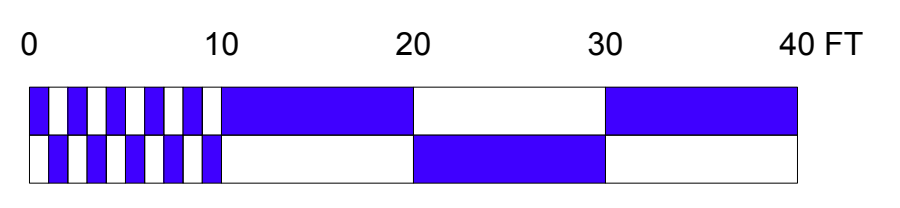
**BLDG 8**

- NOTES:
1. MINIMUM 3" CAL. & 10' HEIGHT ON ALL SINGLE TRUNK TREES.
  2. SHRUBS SHALL NOT EXCEED 4' HEIGHT @ MATURITY.
  3. YARD AREAS SHALL RECEIVE CERTIFIED CENTIPEED SOD, LAID SOLID.
  4. BED AREAS SHALL BE PREPARED TO SPECIFICATIONS (SEE SECTION 02950).
  5. BED AREAS AT BUILDINGS SHALL BE A MINIMUM OF 5' WIDE.
  6. BED AREA @ PONCHARTRAIN DR. SHALL BE A MINIMUM OF 10' WIDE.
  7. MINIMUM 1 1/2" CAL. & 10' HEIGHT ON MULTI-TRUNK TREES.
  8. QUANTITIES SPECIFIED IN PRINT SHALL SUPERCEDE SYMBOLS.

PLANT SCHEDULE THIS SHEET

QTY.	SIZE	ITEM	AVG. SIZE @ MATURITY
20	3 GAL.	DWARF OLEANDER	4'X4'
74	3 GAL.	DWARF HAWTHORN	4'X4'
10	3 GAL.	PITOSPORUM	4'X6"

**BUILDING 8 DETAIL PLANTING**  
 Scale: 1" = 10 ft



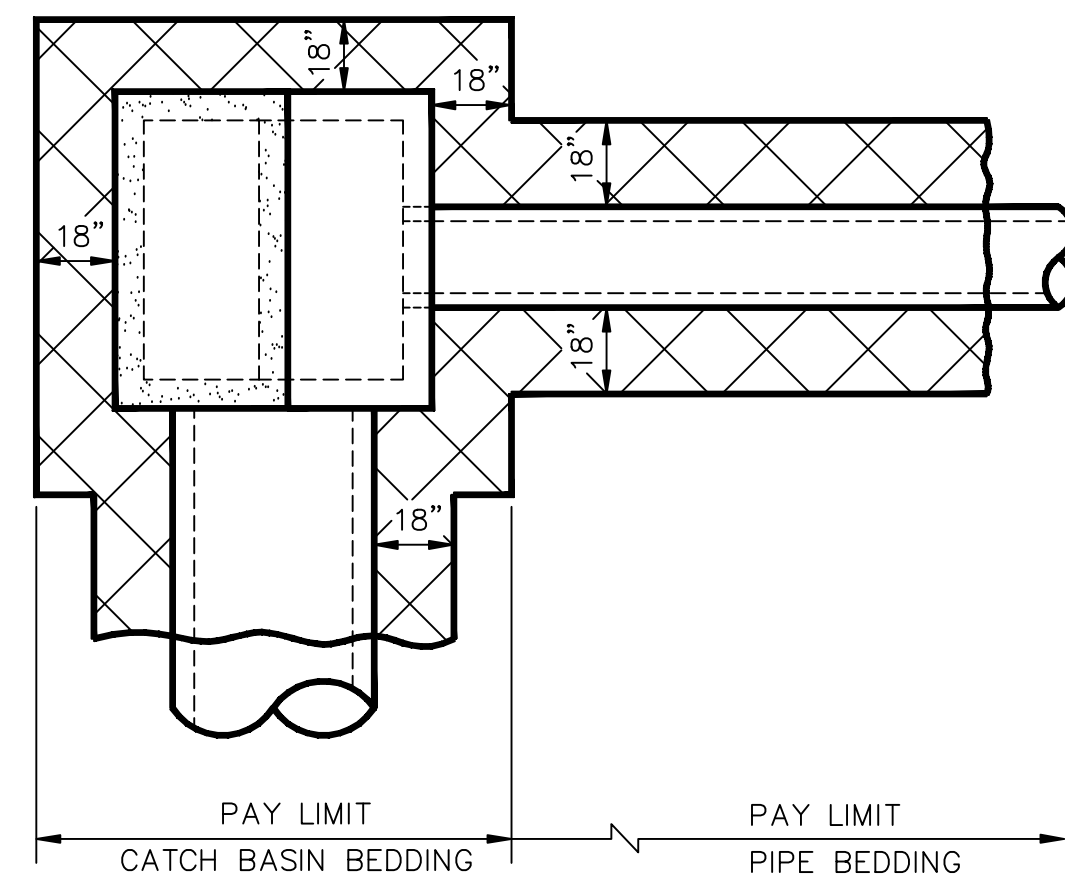
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	FILE:
	DRAWN BY: HAR



SHEET TITLE <b>P2-4</b>	SHEET 4 OF 4
	DATE: 5.2.12

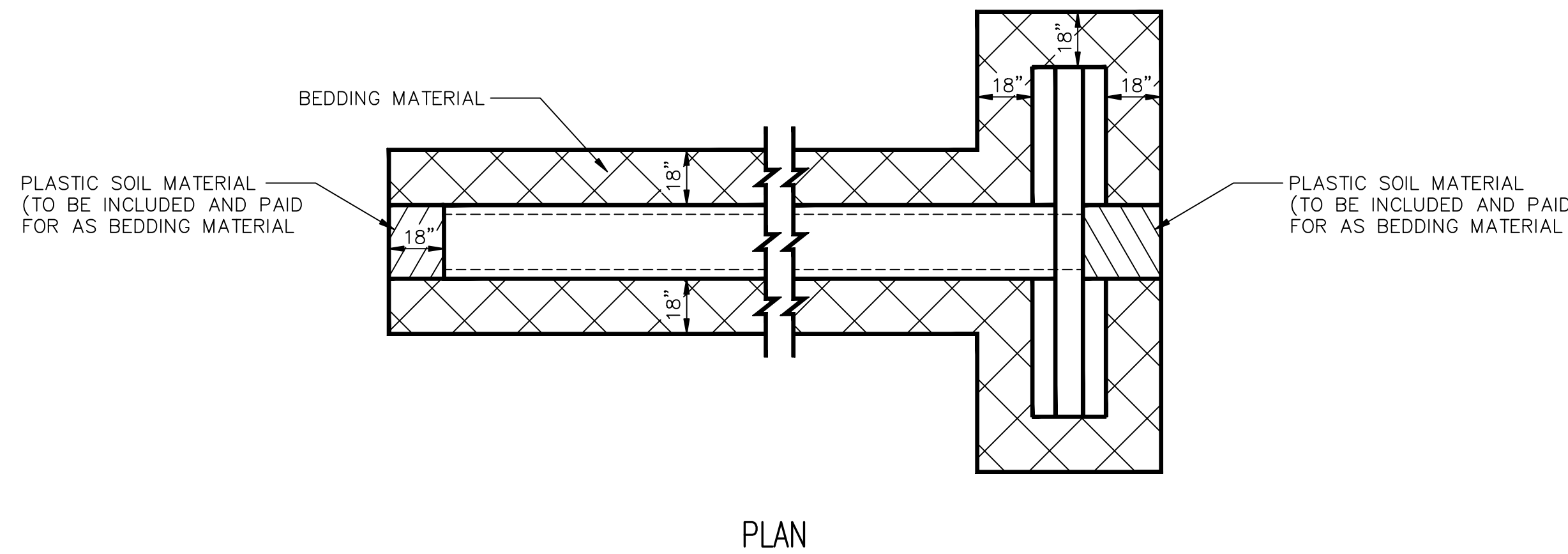
F.A.P.	STATE PROJECT	PARISH	SHEET NO.

TYPICAL CATCH BASIN AND STORM SEWER PIPE INSTALLATION WITH BEDDING MATERIAL



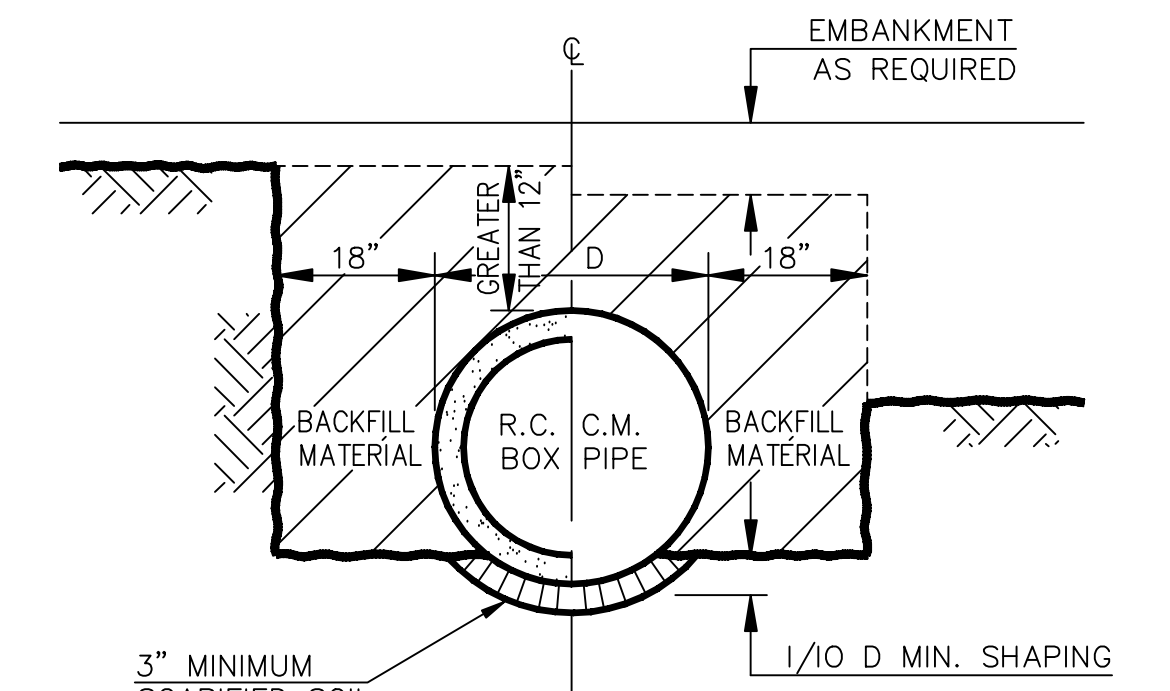
PLAN OF TYPICAL CATCH BASIN (MANHOLE OR JUNCTION BOX) & PIPE

TYPICAL CROSS DRAIN INSTALLATION WITH BEDDING MATERIAL



PLAN

TYPICAL PIPE INSTALLATION WITHOUT BEDDING MATERIAL

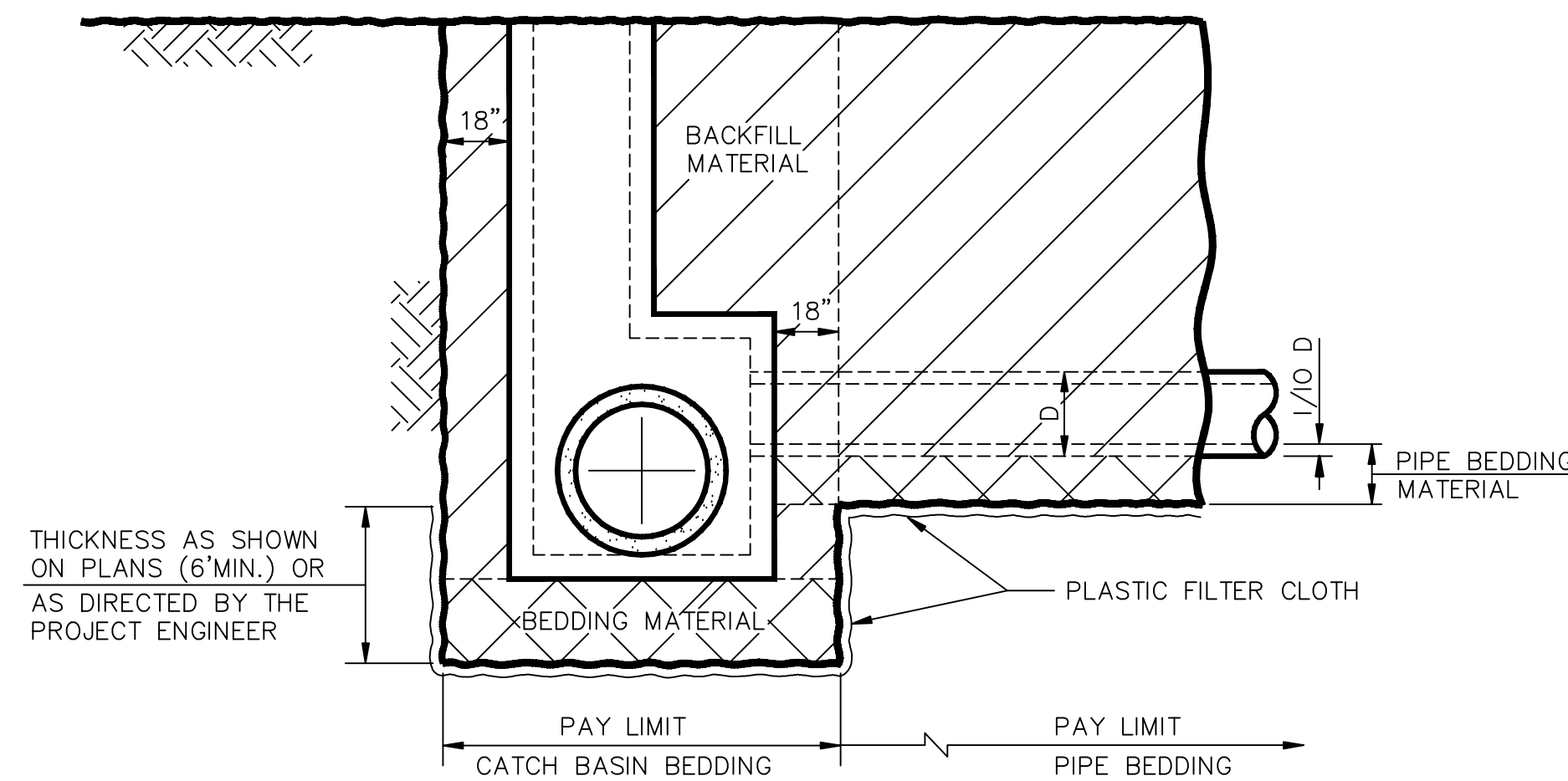


SECTION THRU TRENCH

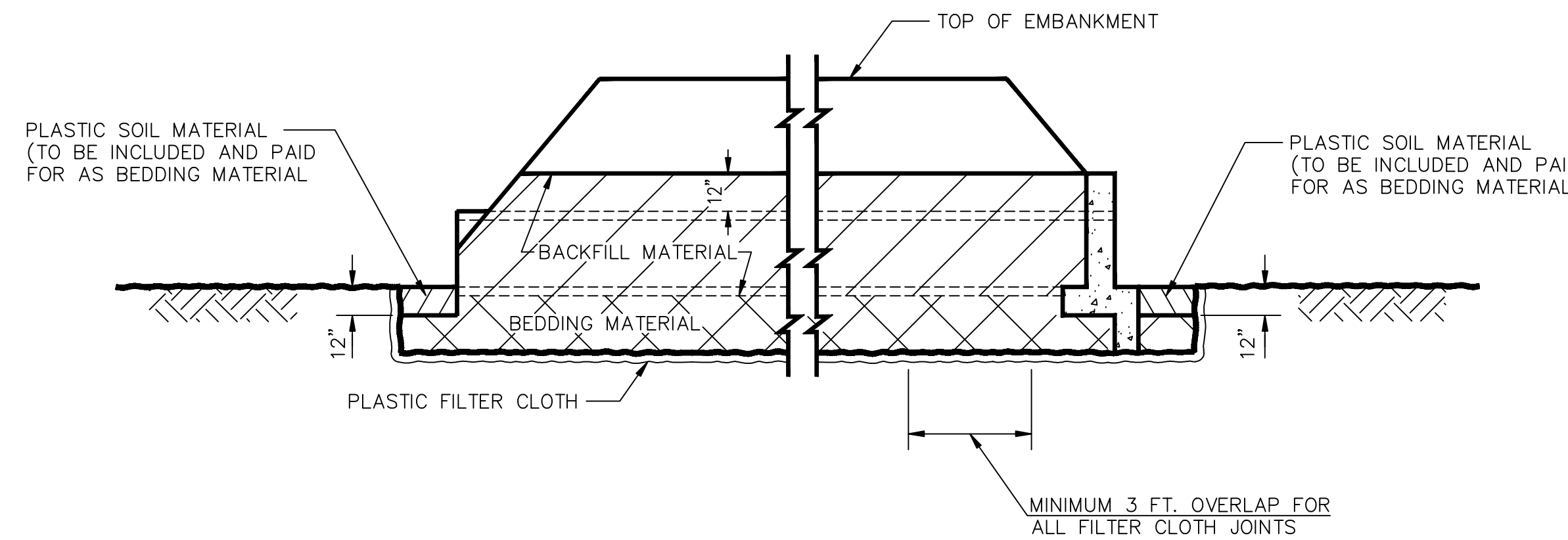
HALF-SECTION SHOWING TOP OF BOX GREATER THAN 12" BELOW ORIGINAL GROUND (TRENCH INSTALLATION) | HALF-SECTION SHOWING TOP OF PIPE ABOVE ORIGINAL GROUND (EMBANKMENT INSTALLATION)

GENERAL NOTES:

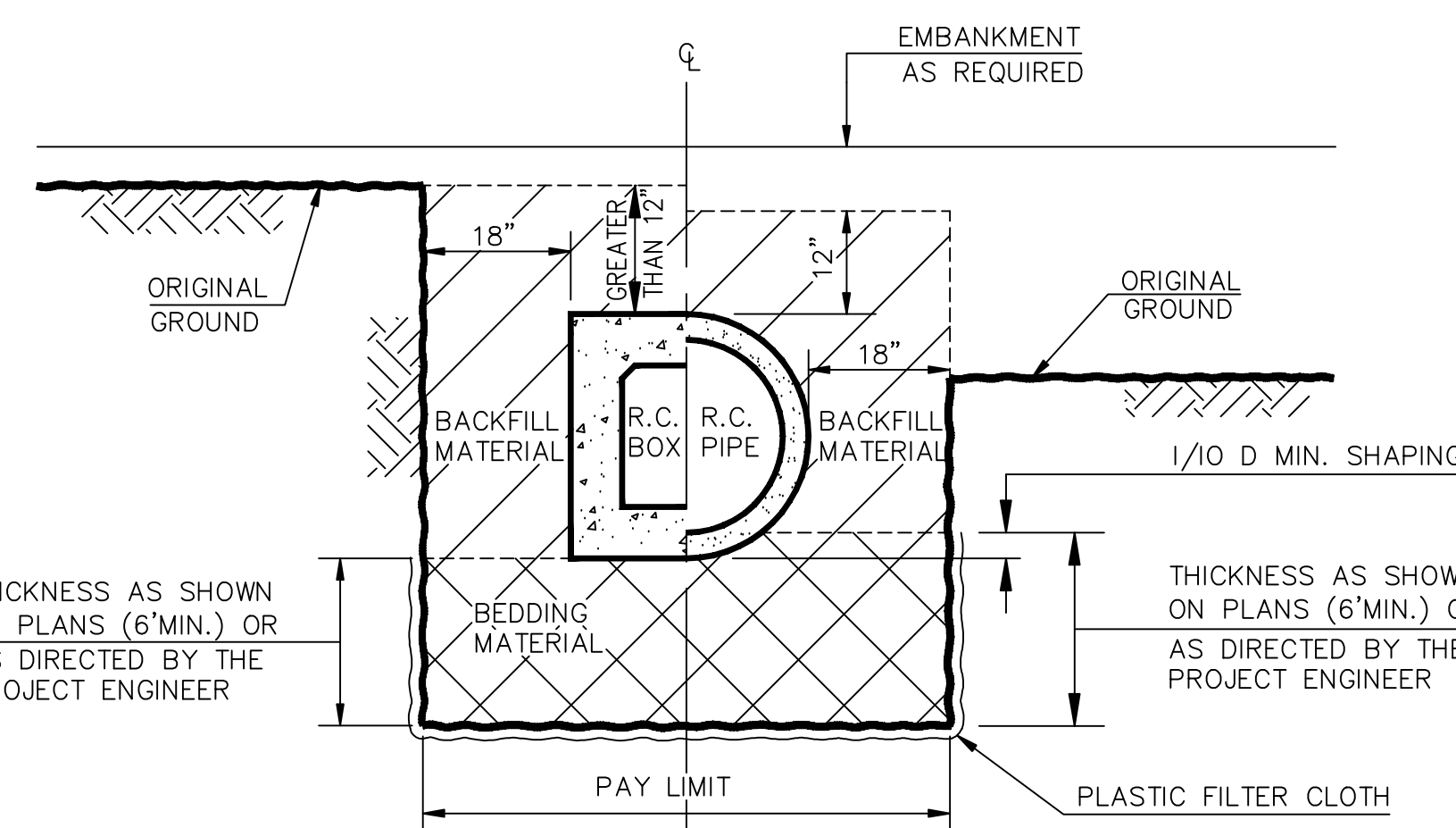
- STANDARD D.O.T.D. PIPE INSTALLATION, BEDDING, AND BACKFILL ARE DEFINED IN SECTIONS 701 AND 726 OF THE "LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES".
- THE NEED AND/OR THE THICKNESS OF BEDDING MATERIAL WILL BE DETERMINED BY THE GEOTECHNICAL SECTION AND WILL BE SHOWN ON THE PLANS. ADDITIONAL BEDDING MATERIAL MAY BE REQUIRED BY THE PROJECT ENGINEER AT NO COST TO THE CONTRACTOR.
- THE DETAILS ON THIS SHEET DEPICT PAY LIMITS FOR BEDDING MATERIALS. THE BEDDING MATERIAL PAY QUANTITIES ARE TO BE BASED ON THE THEORETICAL NET SECTION WITH NO PIPE DEDUCTIONS. FULL PIPE DEDUCTIONS (SEE TABLES ON THIS SHEET) FOR BACKFILL QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. THE COST OF THE BACKFILL IS TO BE INCLUDED IN THE COST OF THE HYDRAULIC STRUCTURE.
- REINFORCED CONCRETE PIPE, REINFORCED CONCRETE BOX AND CORRUGATED METAL PIPE ARE SHOWN AS TYPICAL STRUCTURES. DETAILS FOR REINFORCED CONCRETE PIPE ARCH, AND CORRUGATED STRUCTURAL PLATE STRUCTURES ARE SIMILAR.
- PLASTIC FILTER CLOTH SHALL BE REQUIRED WHEN BEDDING MATERIAL IS REQUIRED AND SHALL BE PLACED IN ACCORDANCE WITH DETAILS PRIOR TO PLACING BEDDING MATERIAL. ADJACENT STRIPS OF FILTER CLOTH SHALL LAP EACH OTHER FOR AT LEAST 3 FEET. PLASTIC FILTER CLOTH WILL NOT BE MEASURED FOR PAYMENT.
- BEDDING SHOWN ON THIS STANDARD PLAN CONFORMS TO CLASS "B" AS DEFINED BY THE 1983 AASHTO SPECIFICATIONS.



PROFILE OF TYPICAL CATCH BASIN, (MANHOLE OR JUNCTION BOX) AND PIPE



PROFILE



SECTION THRU TRENCH

HALF-SECTION SHOWING TOP OF BOX GREATER THAN 12" BELOW ORIGINAL GROUND (TRENCH INSTALLATION) | HALF-SECTION SHOWING TOP OF PIPE ABOVE ORIGINAL GROUND (EMBANKMENT INSTALLATION)

*DEDUCTION FROM BACKFILL QUANTITY		
PIPE DIAMETER	R.C.PIPE CU.YDS./LIN.FT.	C.M.PIPE CU.YDS./LIN.FT.
15"	0.0768	0.0455
18"	0.1068	0.0654
24"	0.1818	0.1164
30"	0.2765	0.1818
36"	0.3910	0.2618
42"	0.5254	0.3563
48"	0.6795	0.4654
54"	0.8534	0.5890
60"	1.0471	0.7272
72"	1.4940	1.0472
84"	2.0200	1.4253
96"	2.6252	1.8617
108"	3.3096	2.3562
120"	3.9593	2.9089
132"	4.7908	3.5197
144"	5.7014	4.1888

*DEDUCTION FROM BACKFILL QUANTITY			
R.C.PIPE		C.M.PIPE	
EQUIV. DIAM.	CU.YDS./LIN.FT.	EQUIV. DIAM.	CU.YDS./LIN.FT.
18"	0.0979	18"	0.0593
24"	0.1615	24"	0.1037
30"	0.2495	30"	0.1630
36"	0.3488	36"	0.2370
42"	0.4742	42"	0.3222
48"	0.6171	48"	0.4222
54"	0.7854	54"	0.5296
60"	0.9526	60"	0.6519
72"	1.3599	72"	0.9630
84"	1.8302	84"	1.2963
96"	2.6655	96"	1.7037
108"	3.3170	108"	2.1481

\*FOR INFORMATIONAL PURPOSES ONLY. THE COST OF THE BACKFILL IS TO BE INCLUDED IN THE COST OF THE HYDRAULIC STRUCTURE.

STANDARD PLAN NO.	BM-01	SHEET	1 OF 1
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STANDARD PLAN  
BEDDING AND BACKFILL FOR  
DRAINAGE STRUCTURES

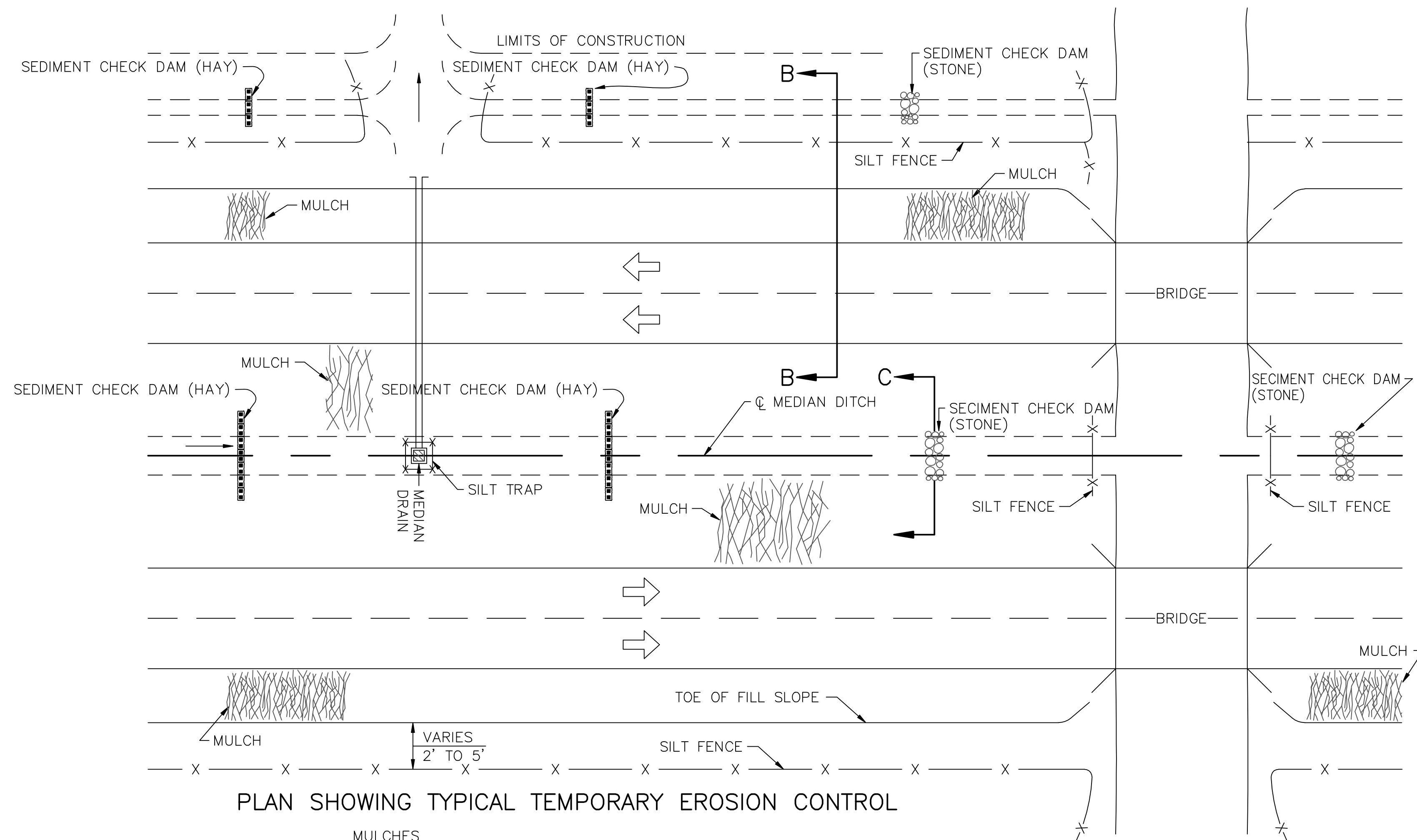
DATE: JUNE 8, 1971

STATE OF LOUISIANA

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

4-16-90	EDITORIAL	P.A.A.	DESIGNED	DETAILED	TRACED
DATE	DESCRIPTION REVISIONS	BY	CHECKED	CHECKED	CHECKED
			APPROVED BY CHIEF ENGINEER		DATE

F.A.P.	STATE PROJECT	PARISH	SHEET NO.

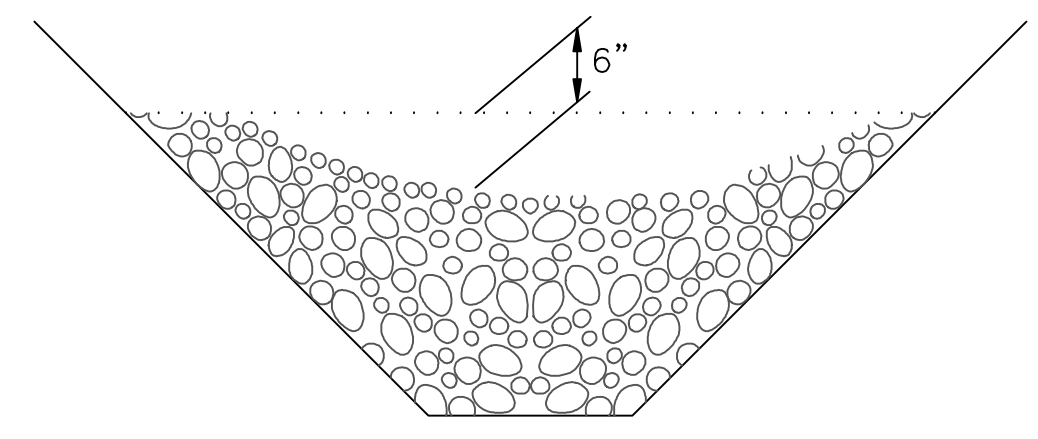


PLAN SHOWING TYPICAL TEMPORARY EROSION CONTROL

MULCHES

Mulches are the application of mats of material placed on the soil surface to prevent raindrop impact and to reduce the velocity of overland flow. Mulches can be organic with subsection 1018.19 of the LA DOTD Standard Specifications. A few guide lines

1. Use on cut and embankment slopes which have not been completed to plan grade permit completing them within a reasonable time;
2. Use on cleared, grubbed, and scalped areas where soil erosion is likely to occur;
3. Use with temporary seeding.



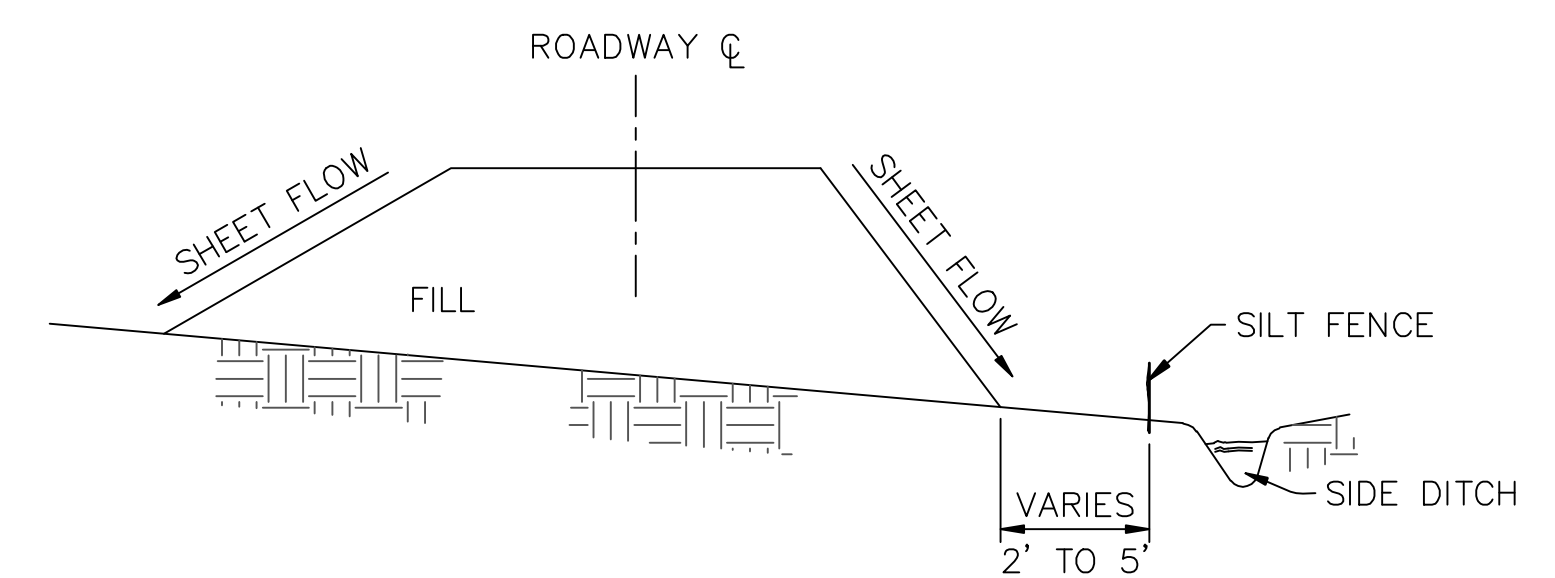
SECTION C-C

TEMPORARY SEDIMENT CHECK DAM (STONE)  
PAY ITEM: 204(05)(A), TEMPORARY SEDIMENT CHECK DAM (HAY)

NOTES:

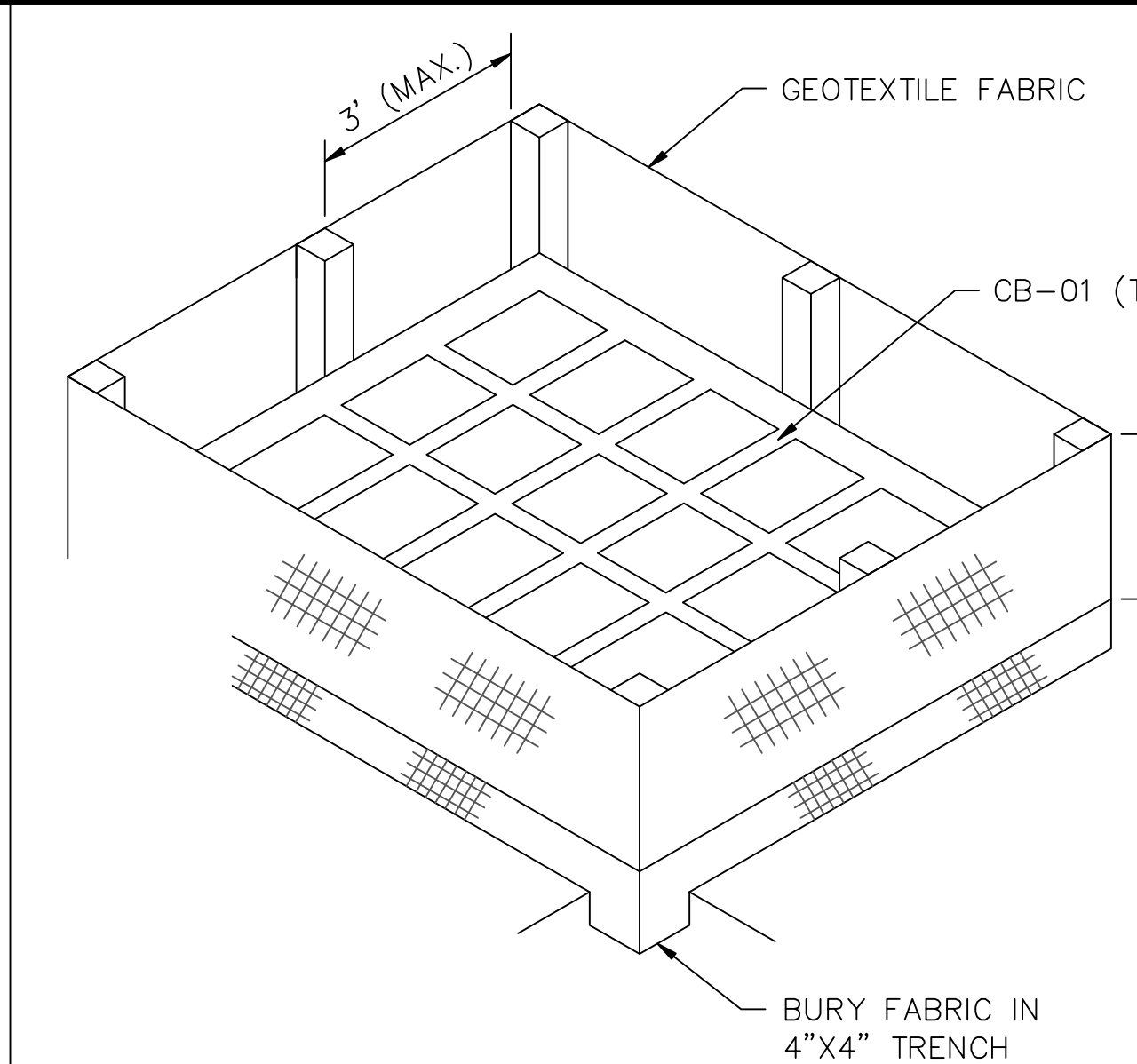
A stone check dam is a small temporary dam constructed across a swale or drainage ditch. The purpose of this measure is to reduce the velocity of concentrated stormwater flows, thereby reducing erosion of the swale or ditch. The stone check dam will trap small amounts of sediments generated in the ditch itself, however it should not be used as a sediment trapping device. A few basic design guidelines for the use of Stone Check Dams are:

1. Use in small open channels which drain 10 acres or less;
2. Do not use in a live stream;
3. Use in a temporary ditch or swale which, because of their short length of service, cannot receive a non-erodible lining;
4. Use in permanent ditches or swales which will not receive a permanent lining for an extended period of time;
5. Use in temporary or permanent ditches or swales which need protection during the establishment of grass linings.
6. For stone specifications see subsection 7.1102(a)(Class 2LB.) of the LA DOTD Standard Specifications.

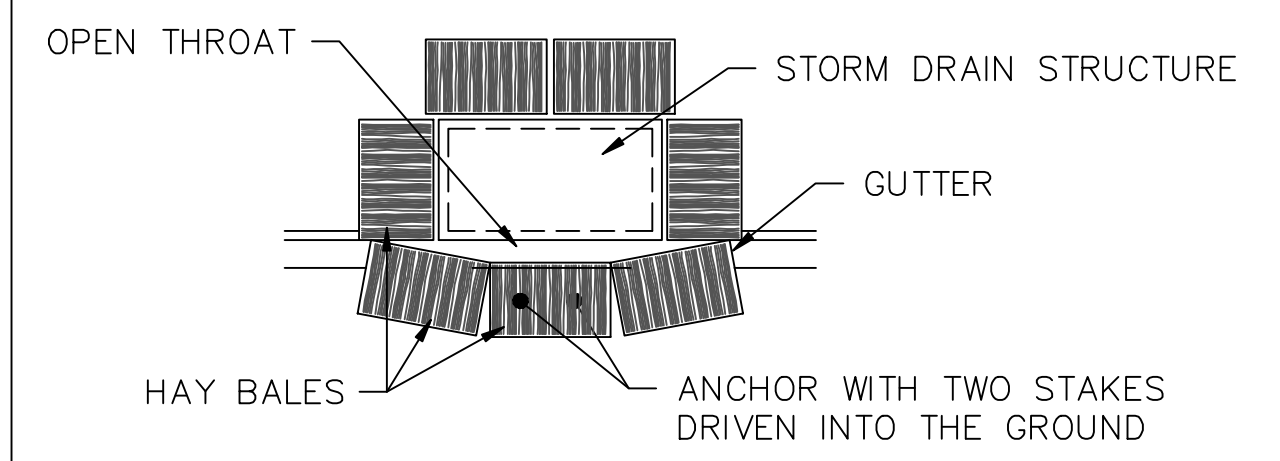


SECTION B-B

TEMPORARY SILT FENCE APPLICATION  
(FOR CONSTRUCTION DETAILS AND SPECIFICATIONS SEE SHEET 2 OF 2.)



ISOMETRIC VIEW SHOWING GEOTEXTILE FABRIC  
(BACKFILL SOIL NOT SHOWN)



PLAN SHOWING HAY BALES

PAY ITEM: 204(02), TEMPORARY BALED HAY OR STRAW

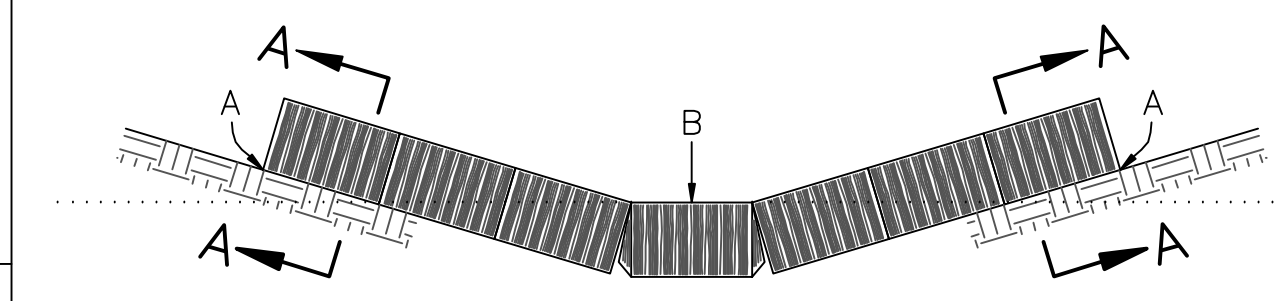
SECTION THRU TRENCH SHOWING GEOTEXTILE FABRIC

NOTES:

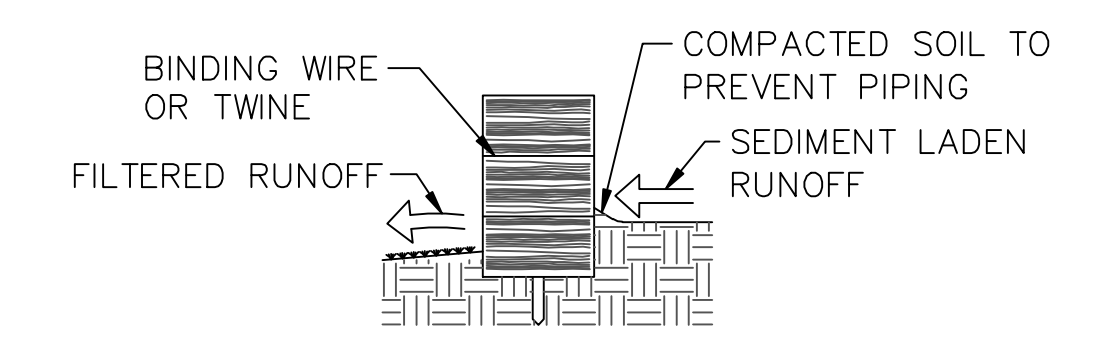
The temporary drop inlet silt trap is to be used for small drainage areas (less than 1 acre) where the storm drain is functional before the area is stabilized. The trap can be either geotextile fabric or hay bales.

1. The geotextile fabric shall conform to Section 1019 (Type G) of the LA DOTD Standard Specifications.
2. Wooden stakes supporting the fabric shall be 2" x 2" or 2" x 4" with a minimum length of 3 feet. The stakes shall be spaced around the inlet at a maximum spacing of 3 feet.
3. The height of the fabric above the inlet shall be limited to 1.5' and the bottom of the fabric shall be buried in a trench approximately 4" wide by 4" deep. The fabric shall be stapled to the post with 1/2" staples.
4. The trap should be inspected regularly and after each storm. The sediment should be removed and make sure each stake is firmly in the ground.

TEMPORARY INLET SILT TRAP



POINTS A SHOULD BE HIGHER THAN POINT B.  
ELEVATION



SECTION A-A

TEMPORARY SEDIMENT CHECK DAM (HAY)  
PAY ITEM: 204(05)(A), TEMPORARY SEDIMENT CHECK DAM (HAY)

NOTES:

A hay bale barrier is a temporary sediment barrier consisting of a row of entrenched and anchored bales of straw or hay. The hay bale barrier is also used as a check dam to reduce the velocity in small ditches or swales. The hay bales shall be in accordance with LA DOTD Standard Specifications, Section 204. A few basic design guidelines for the use of a Hay Bale Barrier are:

1. Use where erosion would occur in the form of sheet and rill erosion;
2. Use in minor swales or ditches where the maximum drainage area is 2 acres;
3. Only use where the effectiveness is required for less than 3 months;
4. Do not use in live streams or in swales or ditches where there is a possibility of a washout.

STANDARD PLAN NO.	EC-01	SHEET	1 OF 2
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TEMPORARY EROSION CONTROL DETAILS

DATE: January 14, 1994

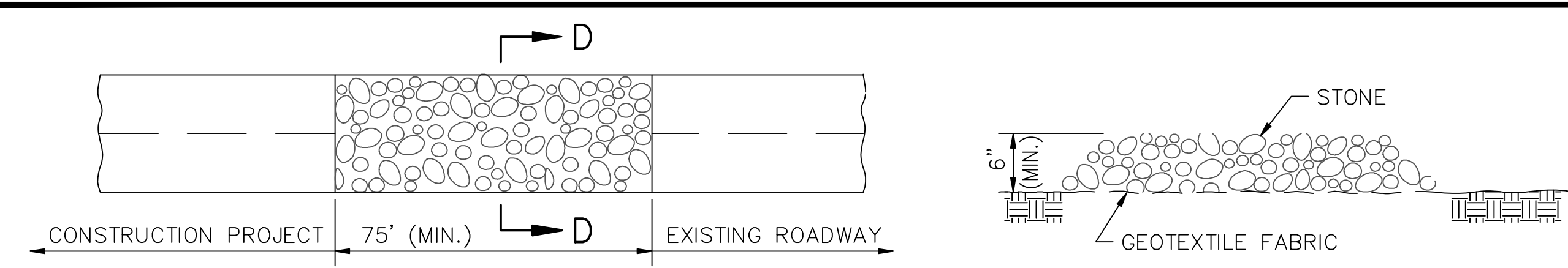
STATE OF LOUISIANA

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

DATE	DESCRIPTION	BY
	REVISIONS	

DESIGNED	DETAILED	DIR. cadd/dgn/sidplans
CHECKED	CHECKED	FILENAME ec01.dgn
APPROVED BY CHIEF ENGINEER (ACTING)		DATE 1-14-94

F.A.P.	STATE PROJECT	PARISH	SHEET NO.



**PLAN**  
**SECTION D-D**  
**TEMPORARY STONE CONSTRUCTION ENTRANCE**

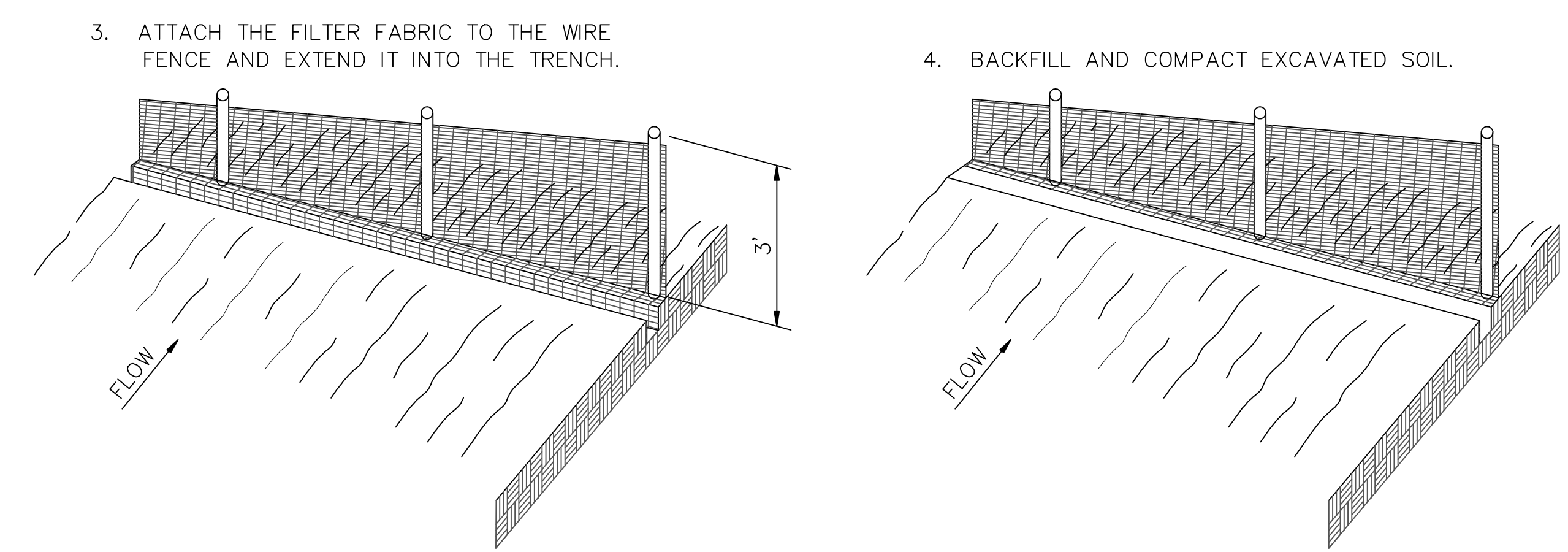
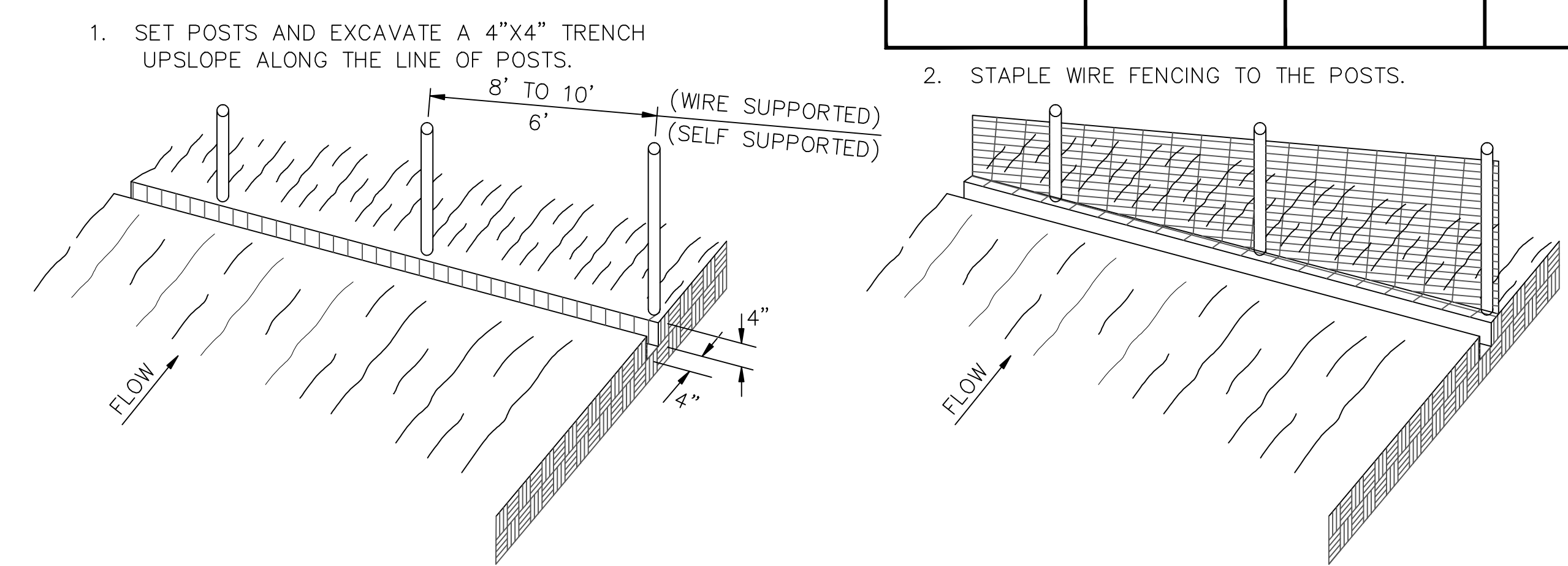
PAY AS "S - ITEM", TEMPORARY STONE CONSTRUCTION ENTRANCE

**NOTES:**

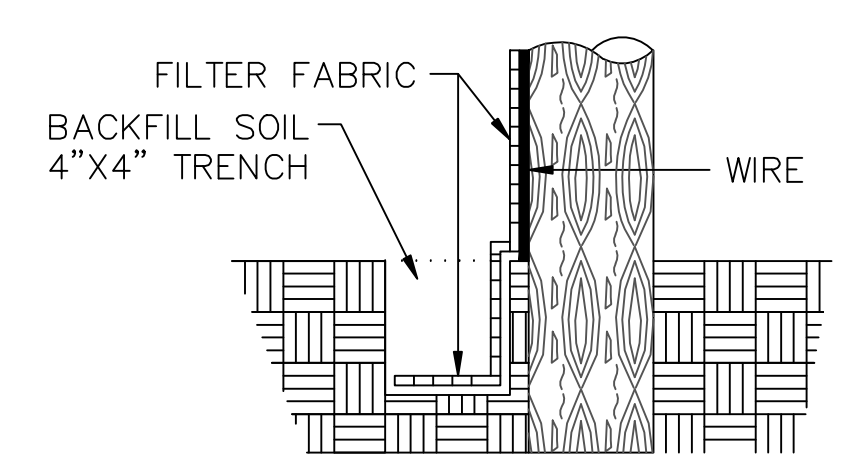
**TEMPORARY STONE CONSTRUCTION ENTRANCE AND/OR WASH RACK**

A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON THE CONSTRUCTION SITE TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLE ENTERS A PUBLIC ROAD. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A STONE CONSTRUCTION ENTRANCE AND/OR WASH ROCKS ARE:

1. THE STONE LAYER MUST BE AT LEAST 6 INCHES THICK;
2. THE STONE SHALL CONFORM TO SECTION 711(02)(CLASS 2LB) OF THE LA DOTD STANDARD SPECIFICATIONS;
3. THE LENGTH OF THE PAD MUST BE AT LEAST 75 FEET AND IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS;
4. A GEOTEXTILE FABRIC UNDERLINER IS REQUIRED. THE GEOTEXTILE FABRIC SHALL BE IN ACCORDANCE WITH SECTION 1019 (TYPE D); OF THE LA DOTD STANDARD SPECIFICATIONS;
5. IF A WASH ROCK IS NECESSARY, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF-SITE.



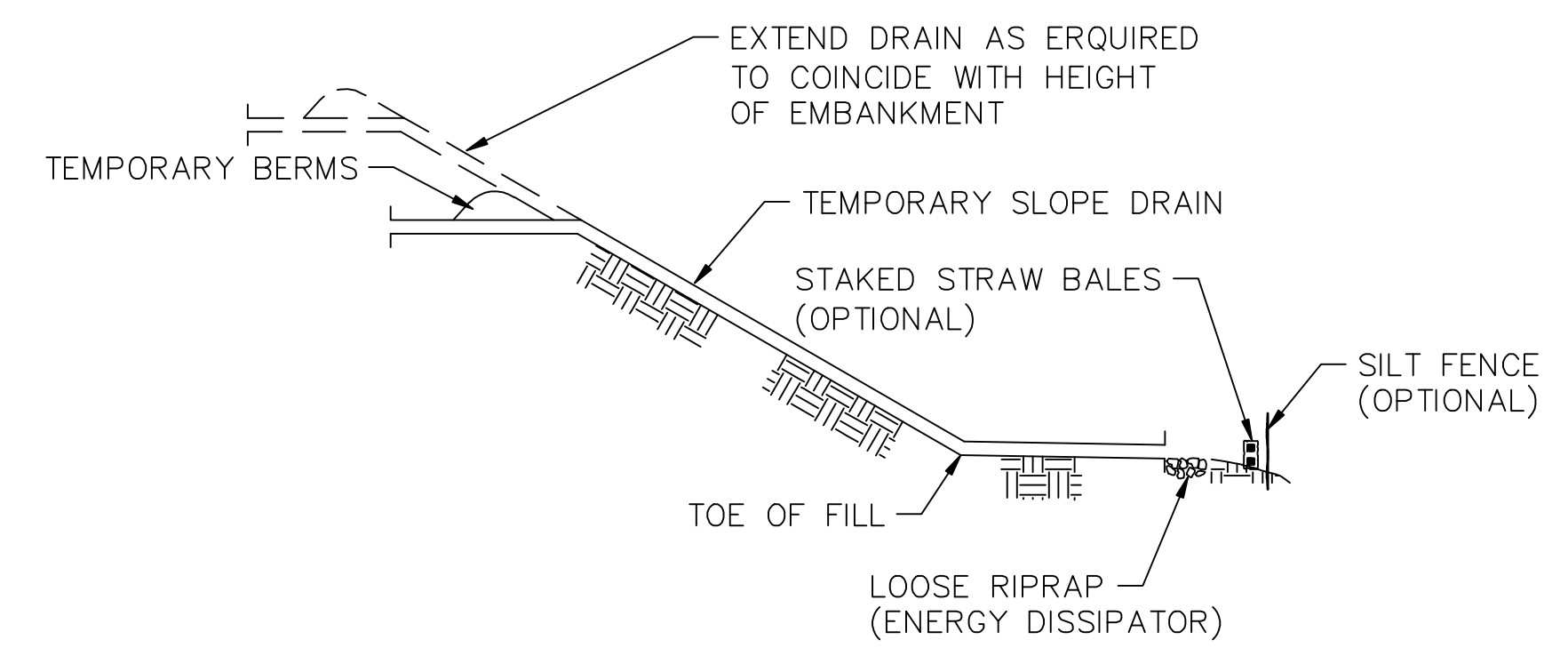
**EXTENSION OF FABRIC INTO THE TRENCH.**



**CONSTRUCTION OF TEMPORARY SILT FENCING**  
(WIRE SUPPORTED SILT FENCE IS SHOWN. SELF SUPPORTED SILT FENCE WILL BE CONSTRUCTED ACCORDING TO MANUFACTURERS SPECIFICATIONS.)

**NOTES:**

- Silt fencing is a temporary sediment barrier consisting of a filter fabric supported by post and stretched across an area to intercept and detain small amounts of sediment. The silt fencing shall be in accordance with Section 204 of the LA DOTD Standard Specifications. A few basic guidelines for the use of Silt Fencing are:
1. Use where erosion would occur in the form of sheet and rill erosion;
  2. Use where the maximum drainage area behind the silt fence is 1/4 acre per 100 feet of silt fence length;
  3. Use where the maximum slope length behind the barrier is 100 feet;
  4. Use where the maximum gradient behind the barrier is 2:1;
  5. Do not use silt fences in live streams or in ditches or swales where flows exceed one cubic foot per second.

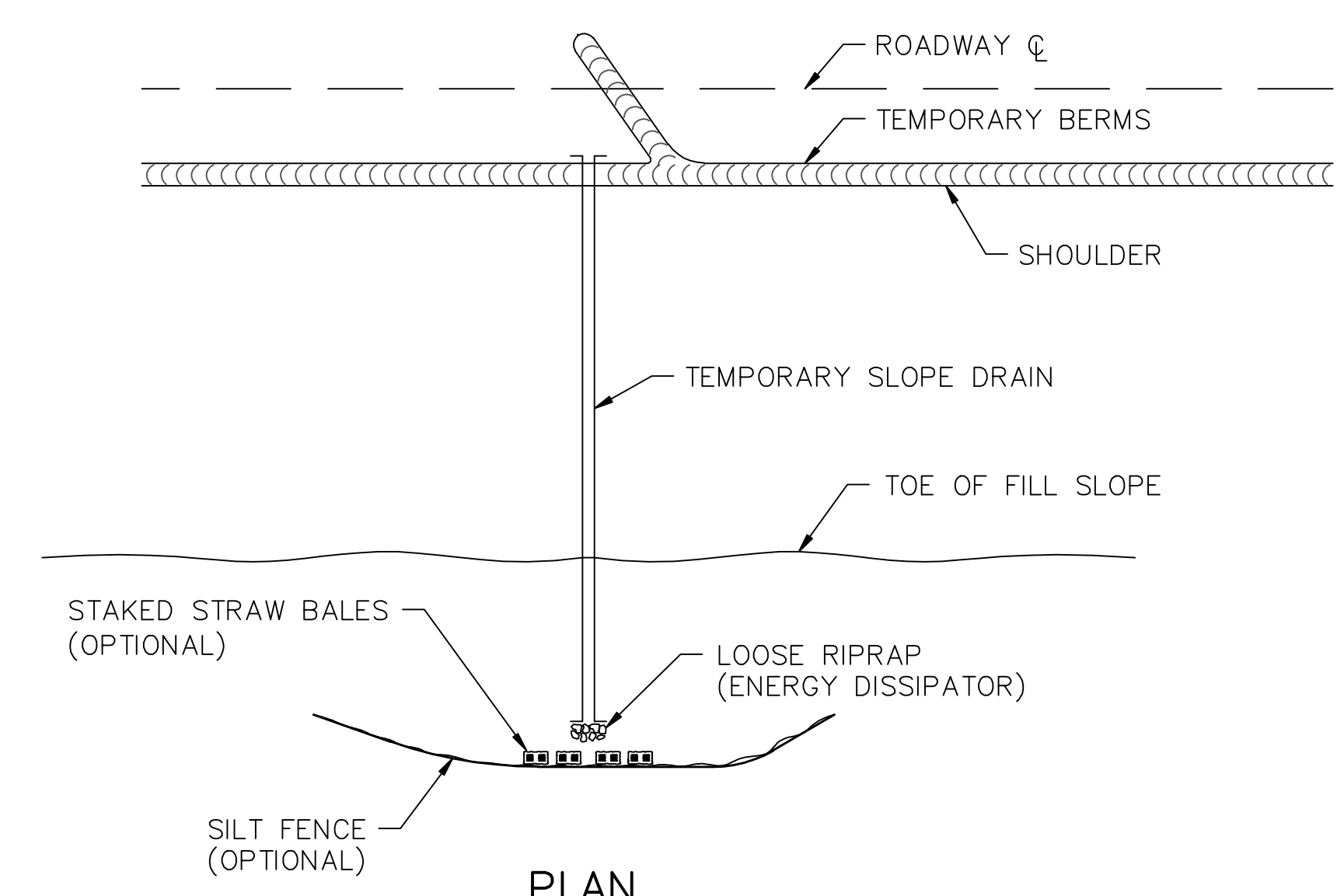


**ELEVATION**

**NOTES:**

A temporary slope drain is a device used to carry water from the construction work to a lower elevation. Slope drains may be plastic sheets, metal or plastic pipe, stone gutters, fiber mats, or concrete or asphalt ditches. A few basic design guidelines for the use of a Temporary Slope Drain are:

1. The spacing of the slope drains varies with the road grade.  
For Grades: 0.0% - 2.0% use 500' spacing  
2.1% - 5.0% use 200' "  
Greater than 5.0% use 100' "
2. Slope drain material: Smooth pipe - 8" minimum  
Corrugated pipe - 12" minimum  
Plastic sheeting - 4' wide minimum  
" - 3 mils thick min.
3. Plastic sheeting can be stacked down or weighted with rocks or logs. The area under the sheeting should be shaped to provide an adequate channel.
4. The outlet end should be protected or have some means of dissipating energy. The flow should be directed through a sediment trap such as a silt fence or hay bales.
5. To insure proper operation, temporary slope drains should be inspected regularly and after each storm, for clogging or displacement. Erosion at the outlet should be checked and the silt traps cleaned if necessary.



**PLAN**  
**TEMPORARY SLOPE DRAIN**

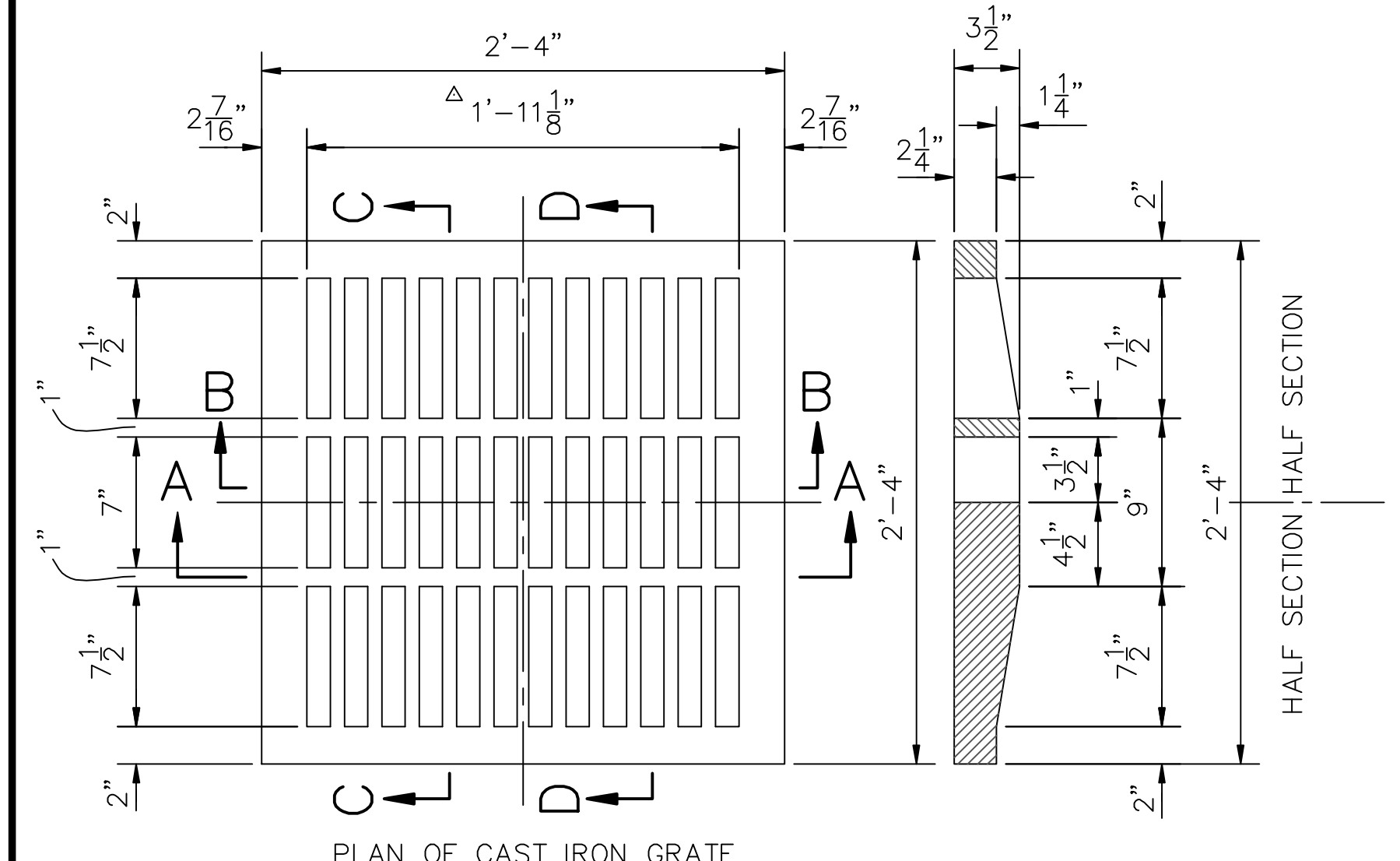
STANDARD PLAN NO.	EC-02	SHEET	2 OF 2
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**CONTROL DETAILS**

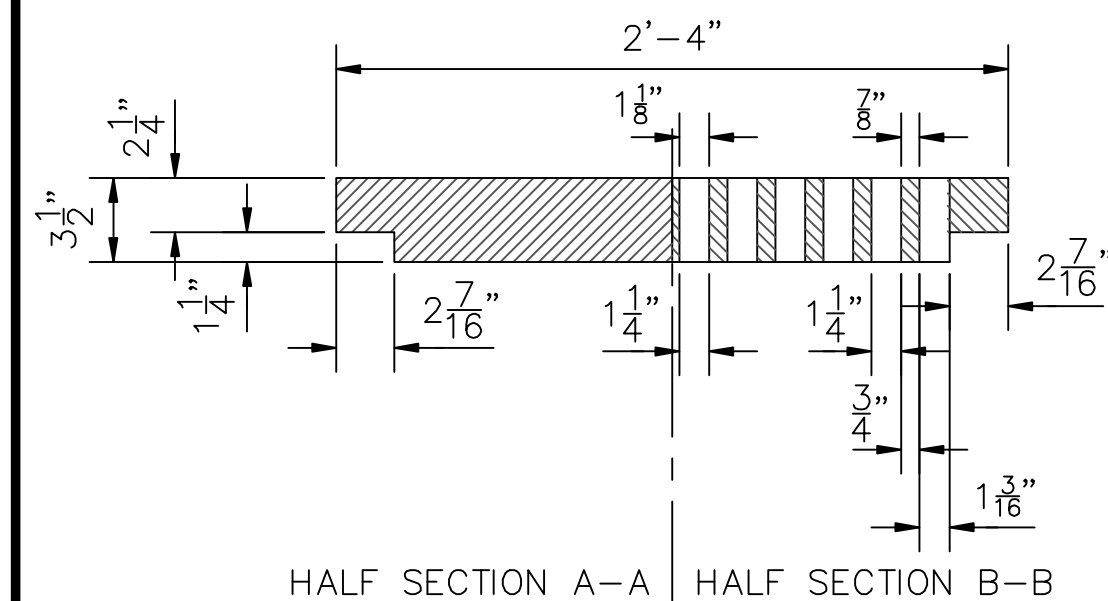
DATE: January 14, 1994		
STATE OF LOUISIANA		
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT		
DESIGNED	DETAILED	DIR. cadd/dgn/sidplans
CHECKED	CHECKED	FILENAME ec01.dgn
APPROVED BY CHIEF ENGINEER (ACTING)		DATE 1-14-94

DATE	DESCRIPTION	BY
	REVISIONS	

F.A.P.	STATE PROJECT	PARISH	SHEET NO.

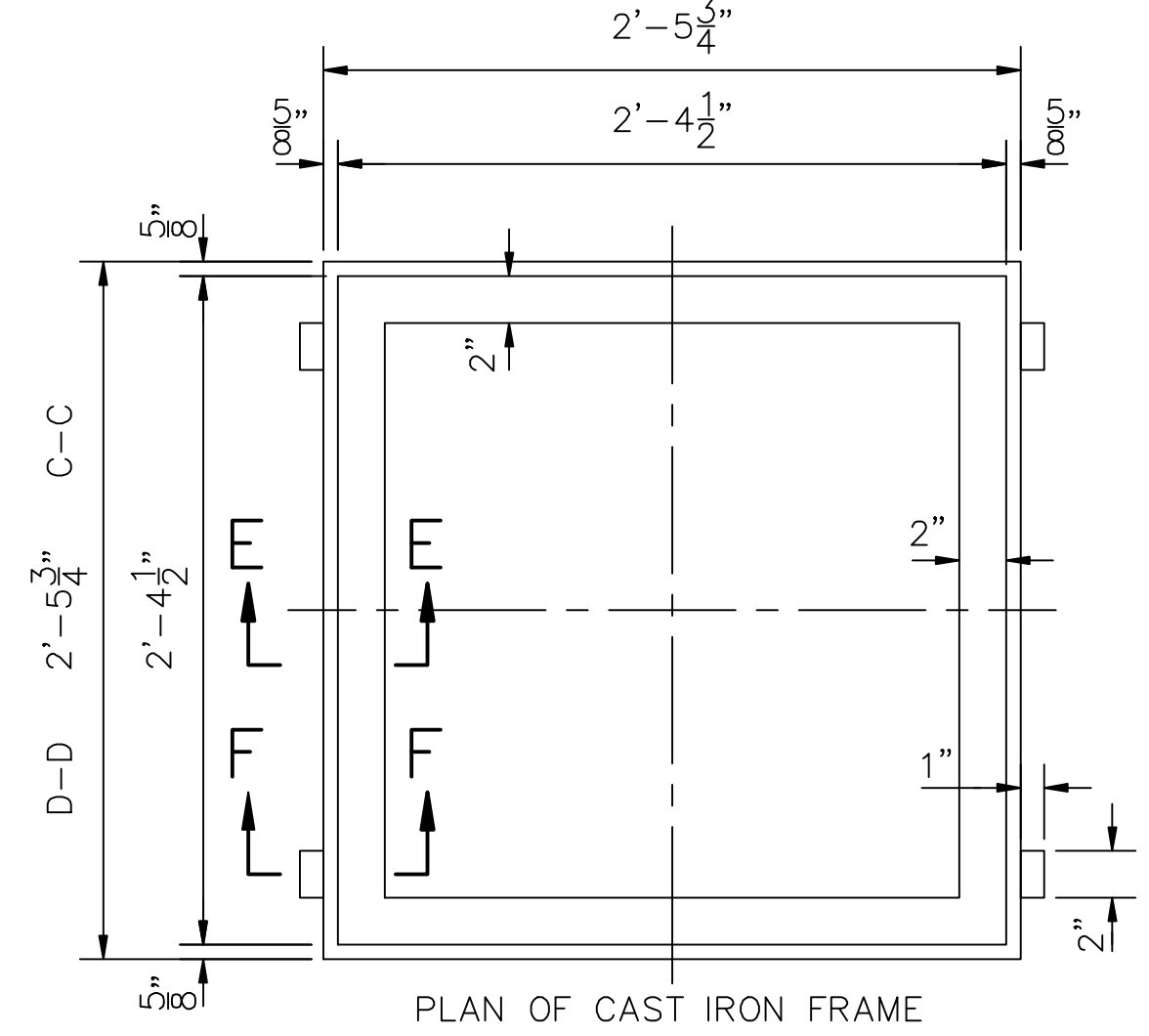


PLAN OF CAST IRON GRATE  
 $\Delta$  1'-11 1/8" = 12 Openings @ 1 1/8"  
 11 Bars @ 7/8"

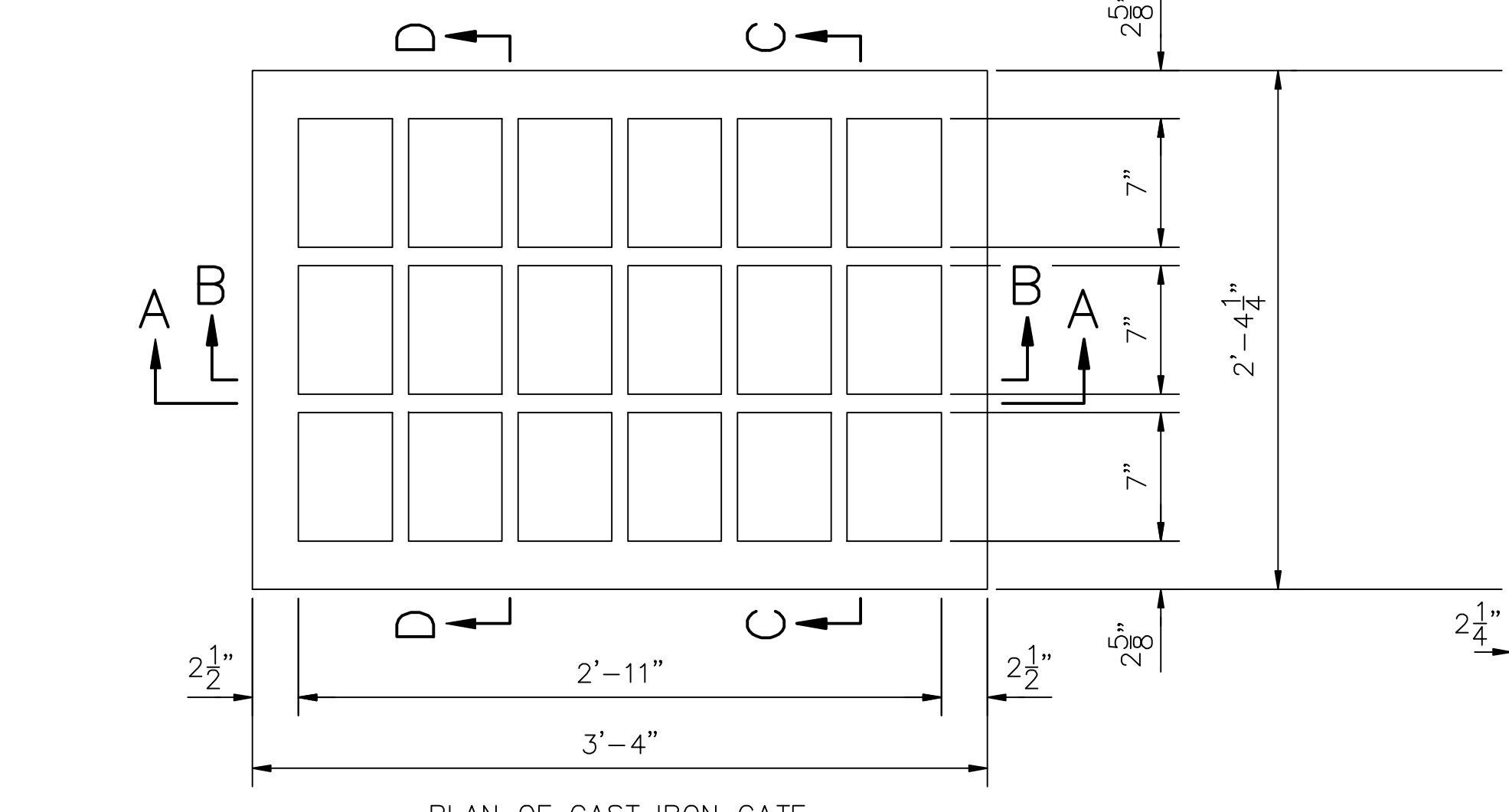
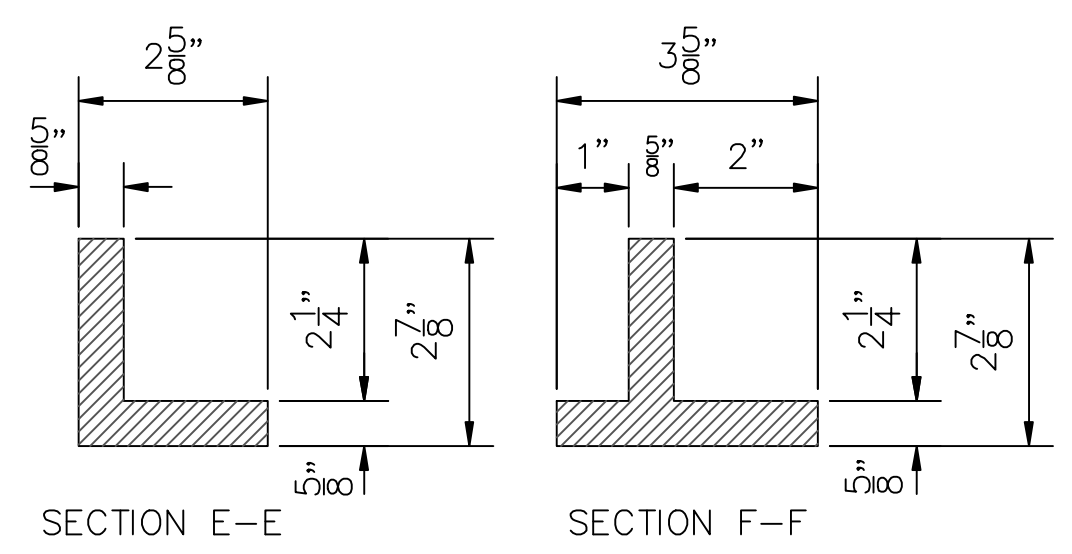


### TYPE "A"

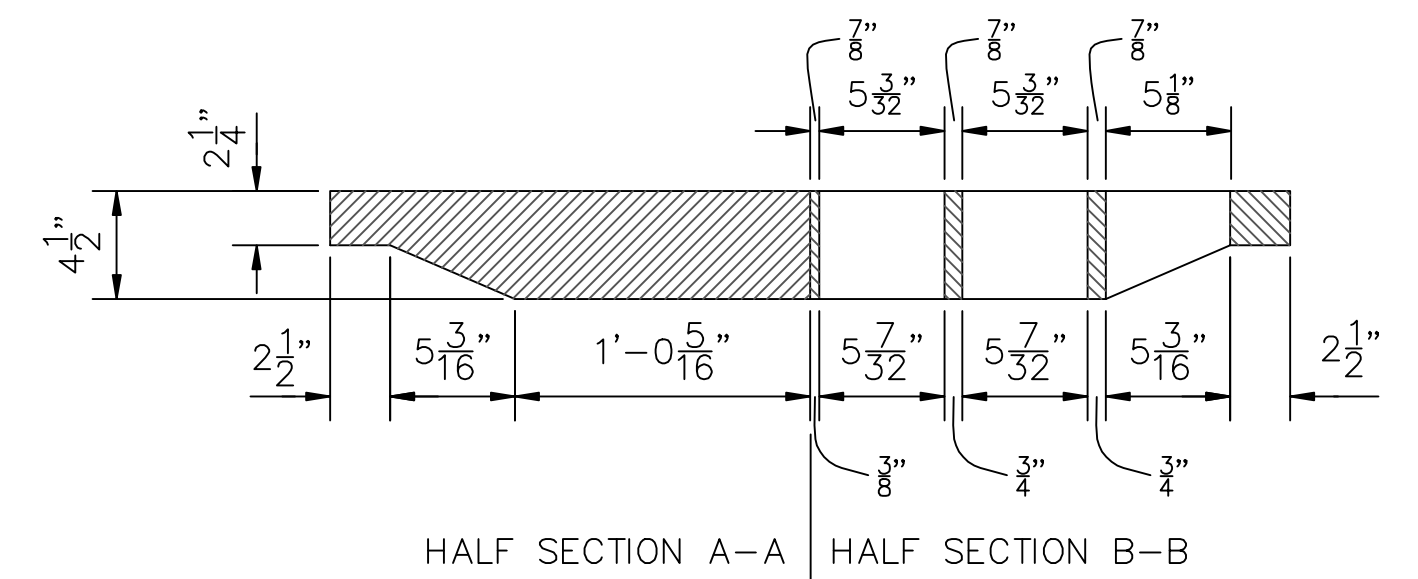
DETAILS OF CAST IRON GRATE  
 Notes: 1. Weight of Cast Iron Grate = 334lbs  
 2. Weight of Cast Iron Frame = 90lbs



PLAN OF CAST IRON FRAME

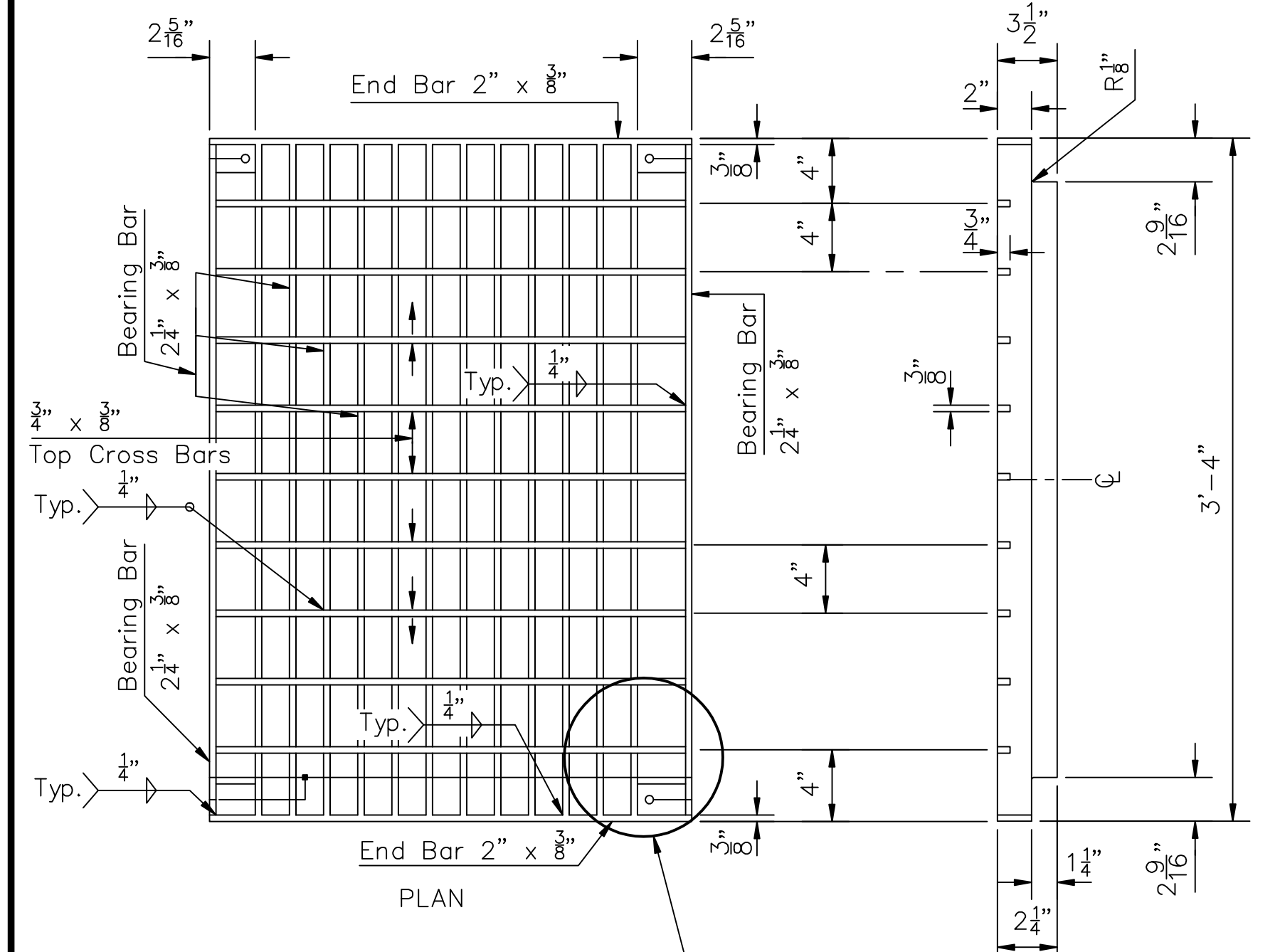


PLAN OF CAST IRON GRATE

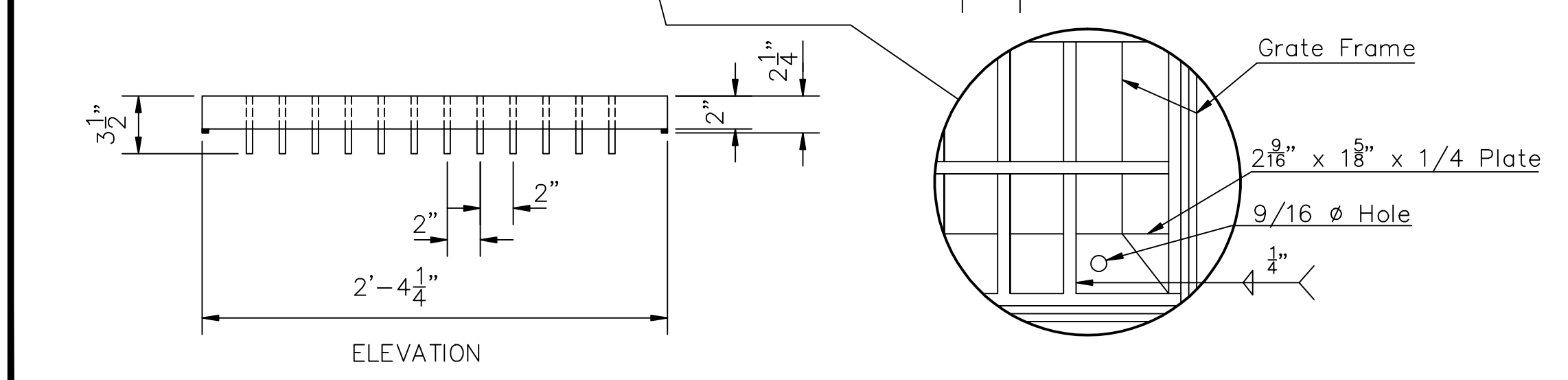


### TYPE "B"

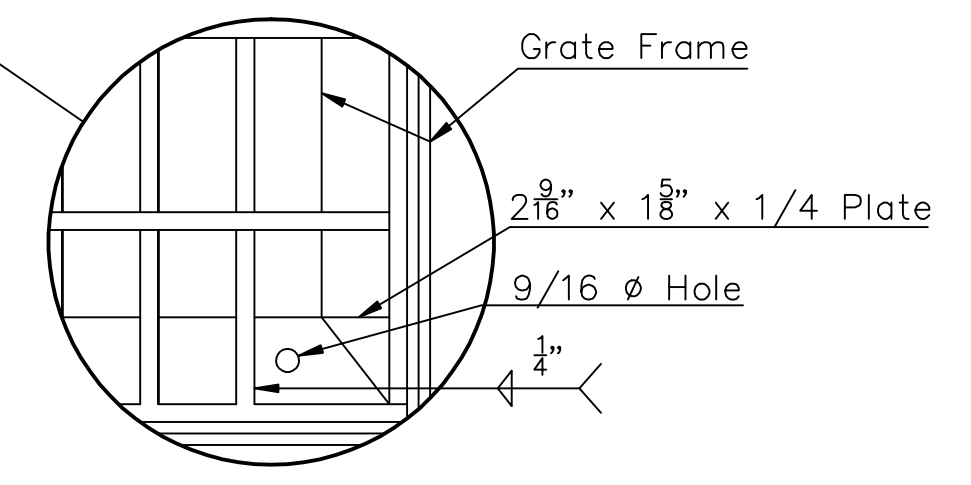
DETAILS OF CAST IRON GRATE  
 Notes: 1. Weight of Cast Iron Grate = 350lbs  
 2. Unless otherwise stated, TYPE "E" frame will be used with this Grate.



PLAN



ELEVATION



HOLD-DOWN PLATE

### TYPE "C"

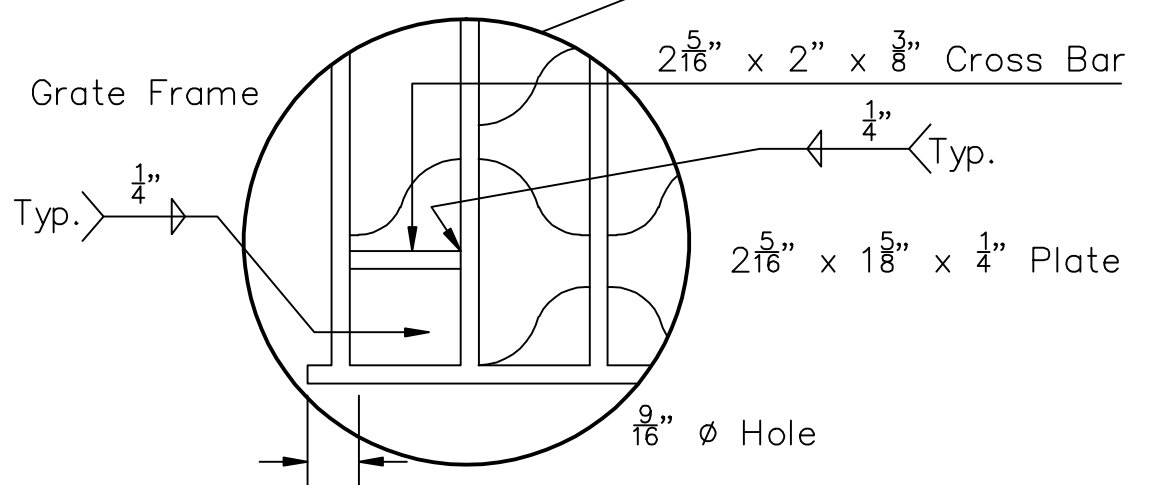
Notes: 1. Grates to be galvanized offer fabrication.  
 2. Unless otherwise stated, TYPE "E1" Frame is to be used with these grates. (See Sheet 2)  
 3. Supplier of Grate also is to furnish Pre-Fitted Grate Frame.

### DETAILS OF WELDED & SEALED DRAIN GRATE

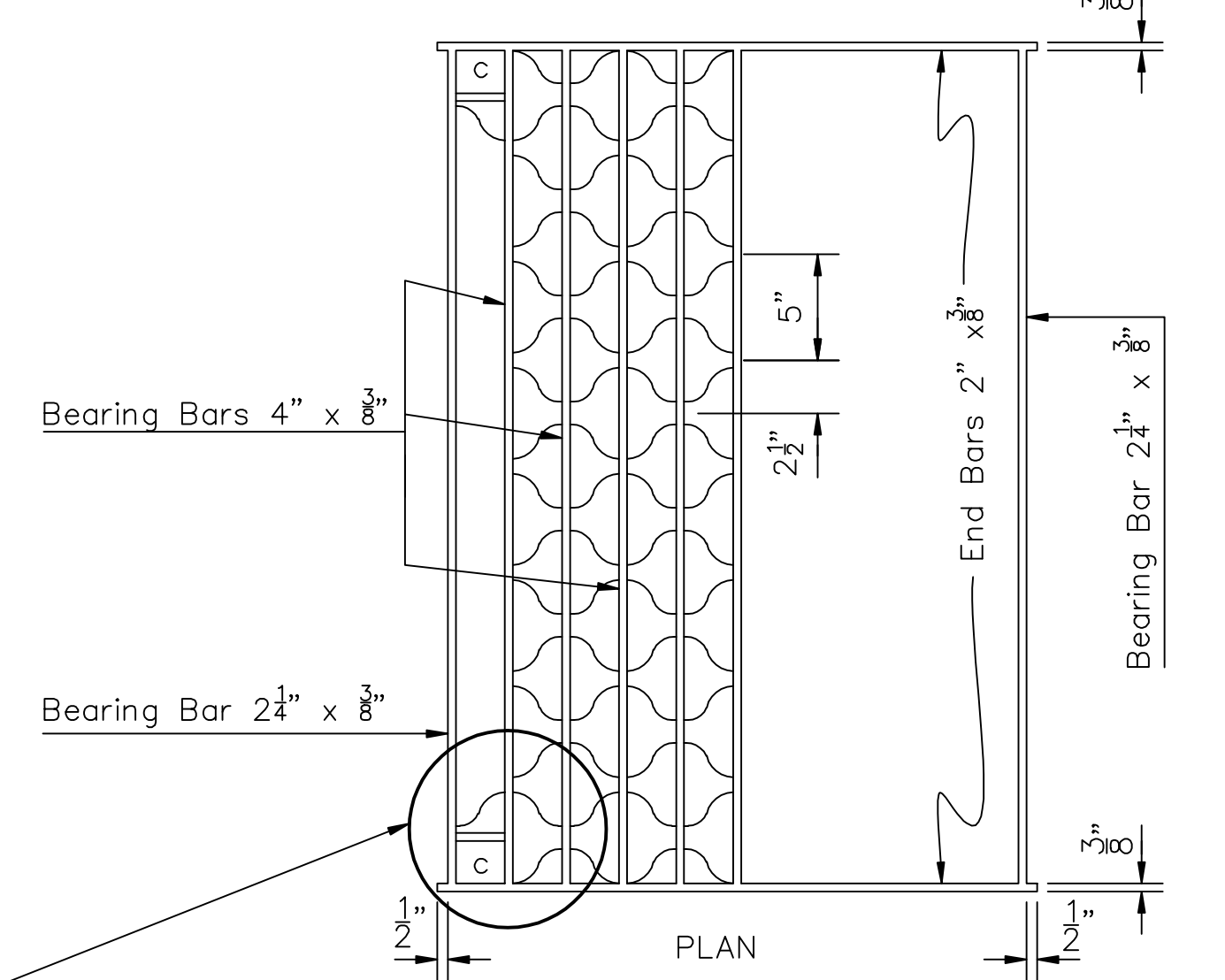
Continuous Weld for full depth each Bearing Bar to End Bars and Cross Bars.  
 All Bearing Bars to be set flush on Grate Frame.  
 Weight of Drain Grate = 233 lbs. 5%

### DETAILS OF RIVETED RETICULINE DRAIN GRATE ALTERNATE

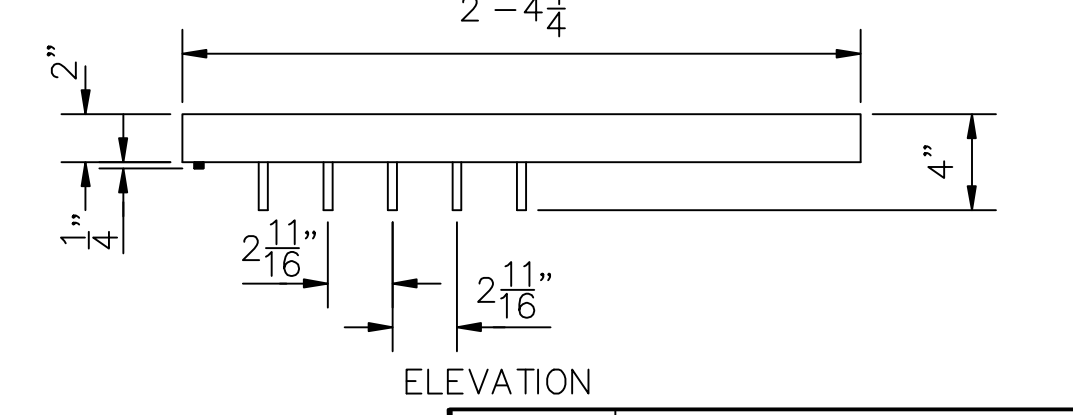
Continuous Weld for full depth each Bearing Bar to End Bars.  
 All Bearing Bars to be set flush on Grate Frame.  
 Center to Center of Bearing Bars equal 2 1/8" plus Bearing Bar Thickness.  
 Weight of Drain Grate = 266 lbs. 5%



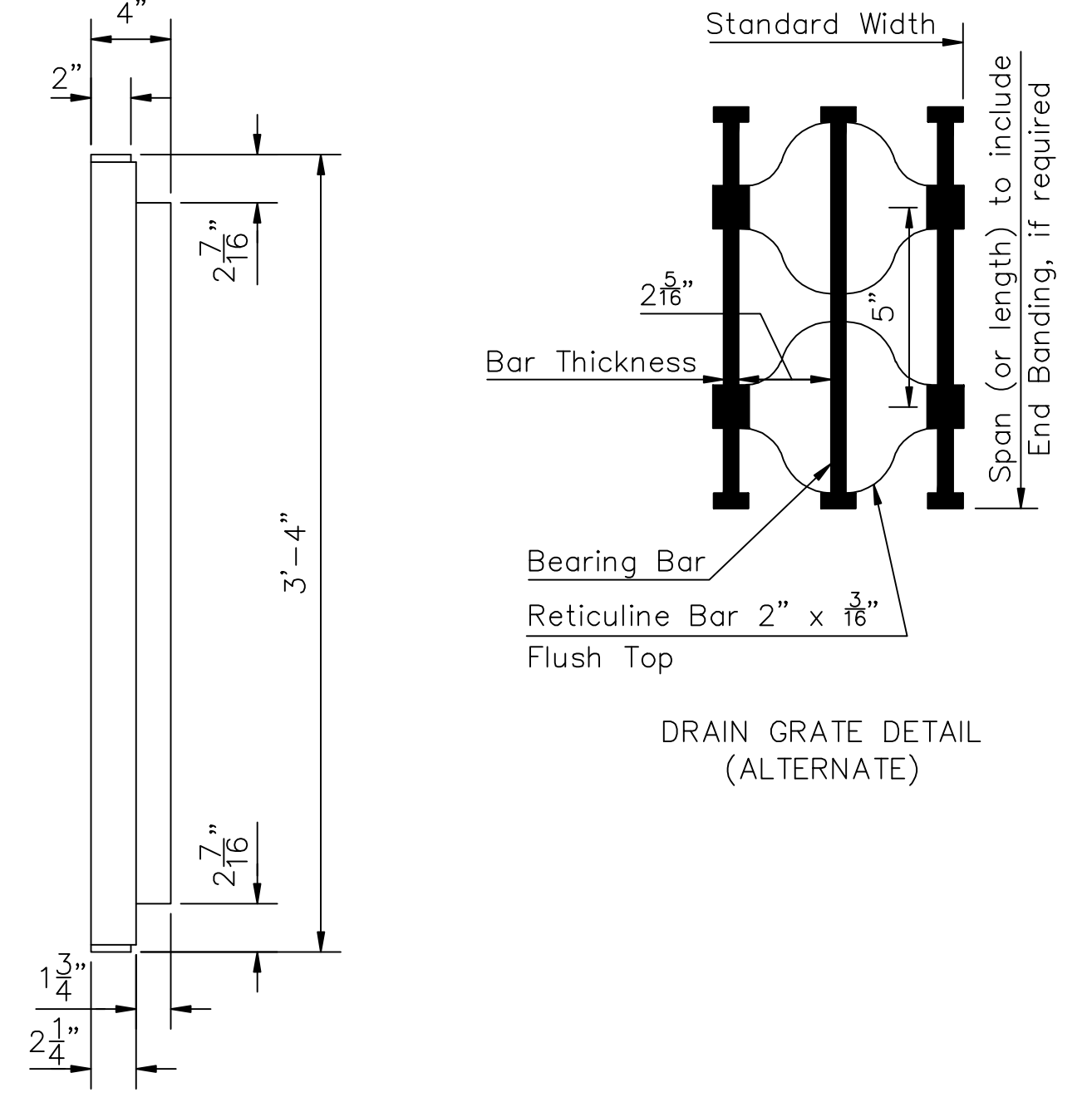
HOLD-DOWN PLATE



PLAN



ELEVATION



DRAIN GRATE DETAIL (ALTERNATE)

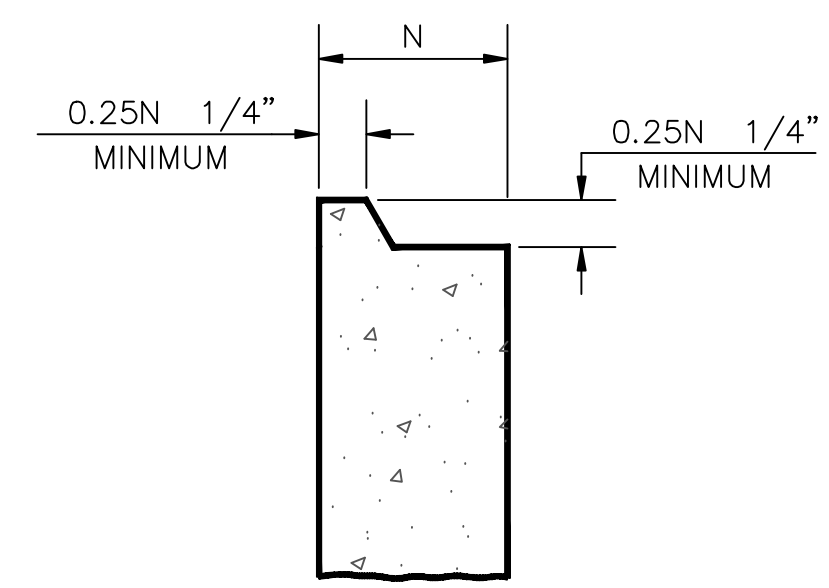
STANDARD PLAN NO.	MC-01
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### PLAIN CONCRETE CATCH BASIN

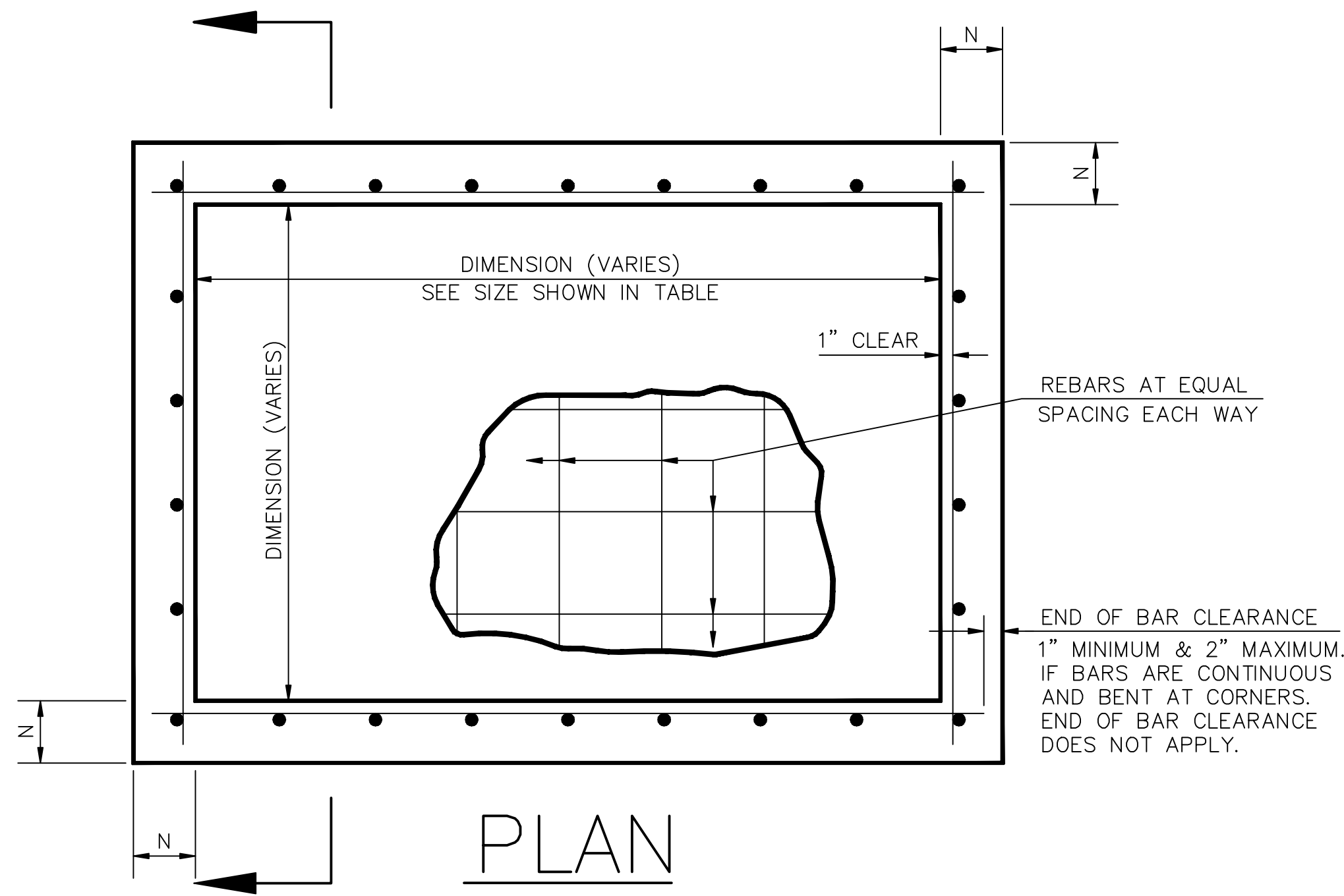
DATED AUG. 15, 1977  
 STATE OF LOUISIANA  
 DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

9-26-94	General Revisions Delete Types G,J,L,M,O	W.T.J.			
8-25-80	Added Type "N" & "O" on Sht. 5	W.T.J.			
2-10-78	Revised Note Type C - Anchor Type E & E	W.T.J.	DESIGNED	DETAILED	DIR.
DATE	DESCRIPTION	BY	CHECKED	CHECKED	FILE
	REVISIONS		APPROVED BY THE ENGINEER		DATE

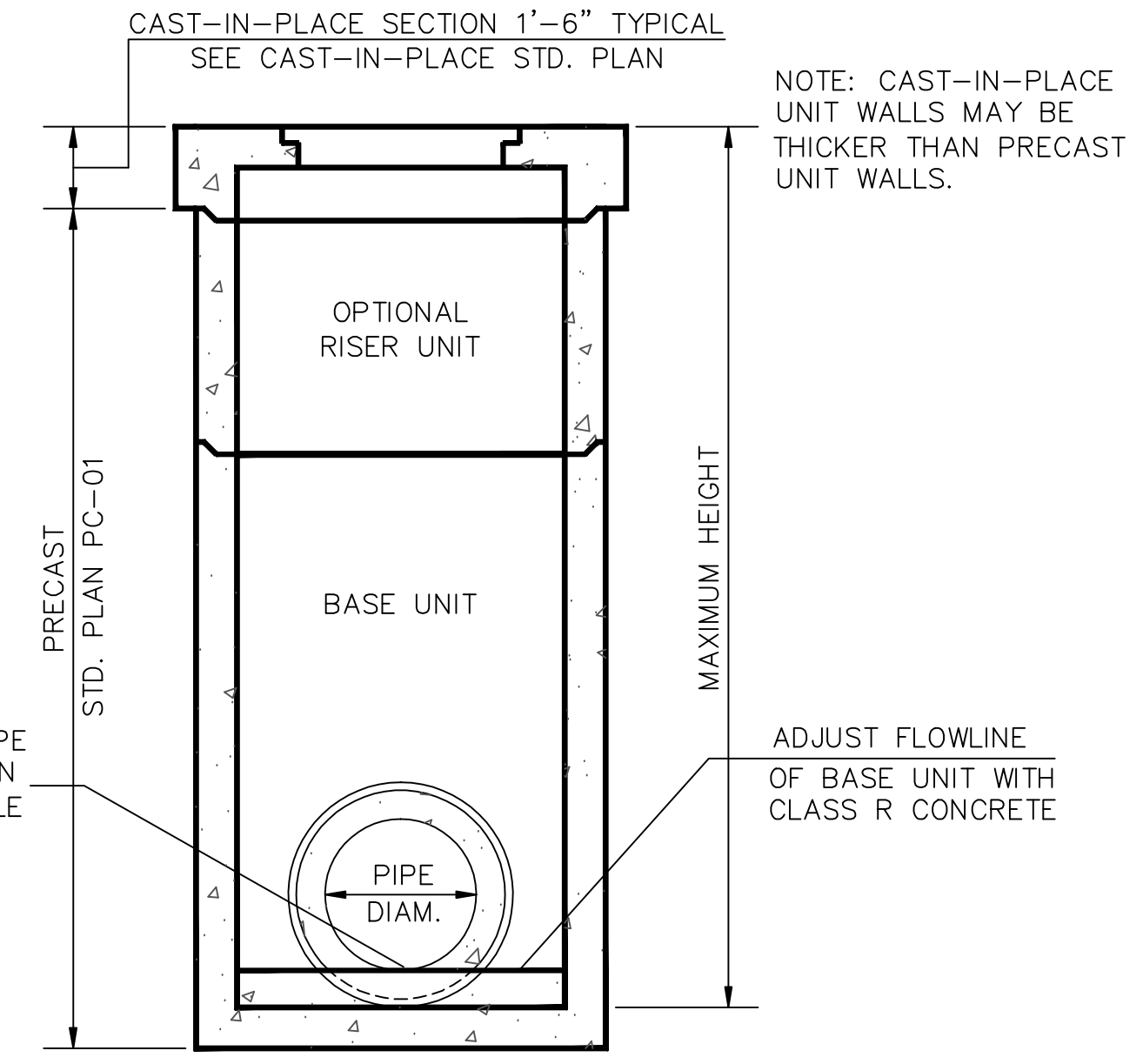
F.A.P.	STATE PROJECT	PARISH	SHEET NO.



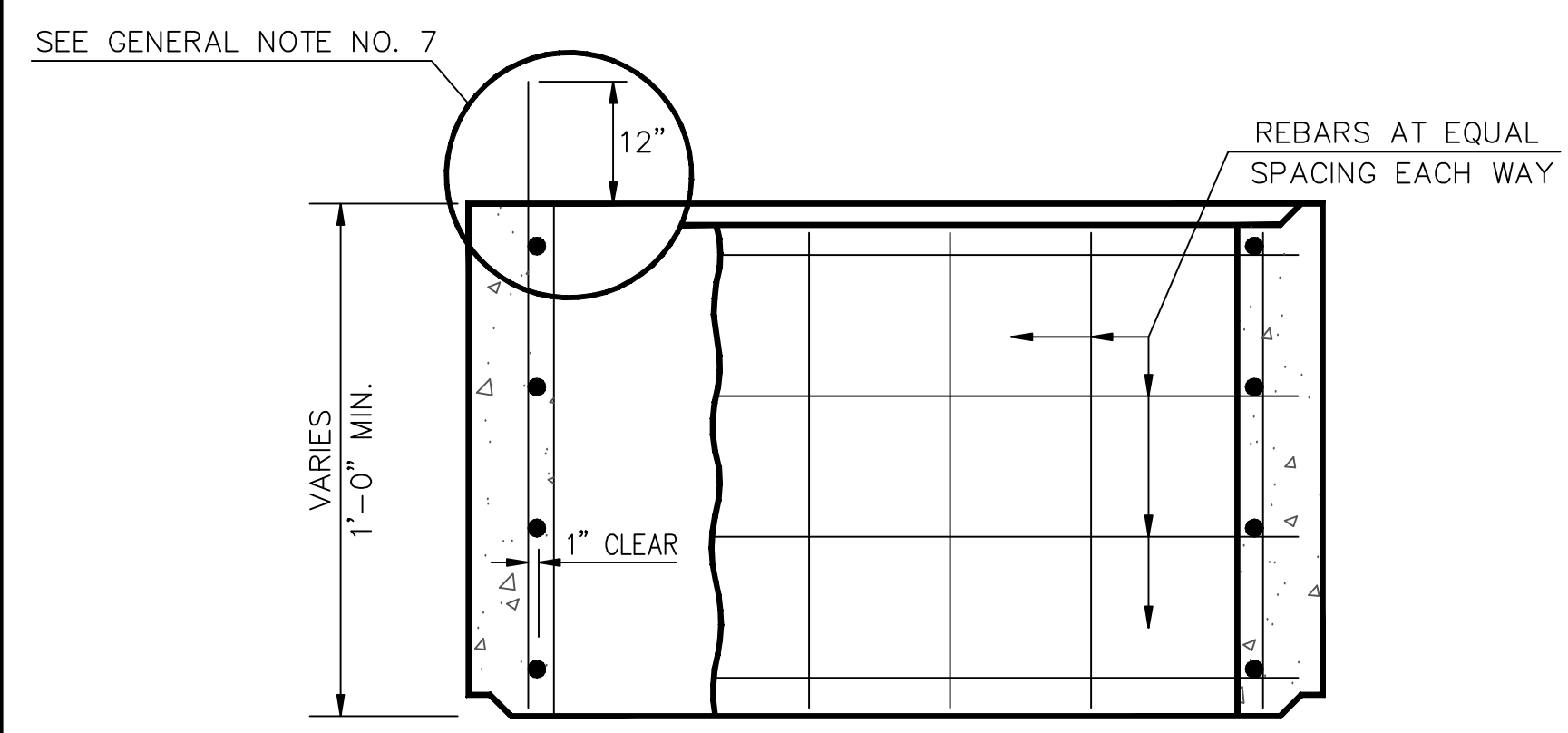
JOINT DETAIL



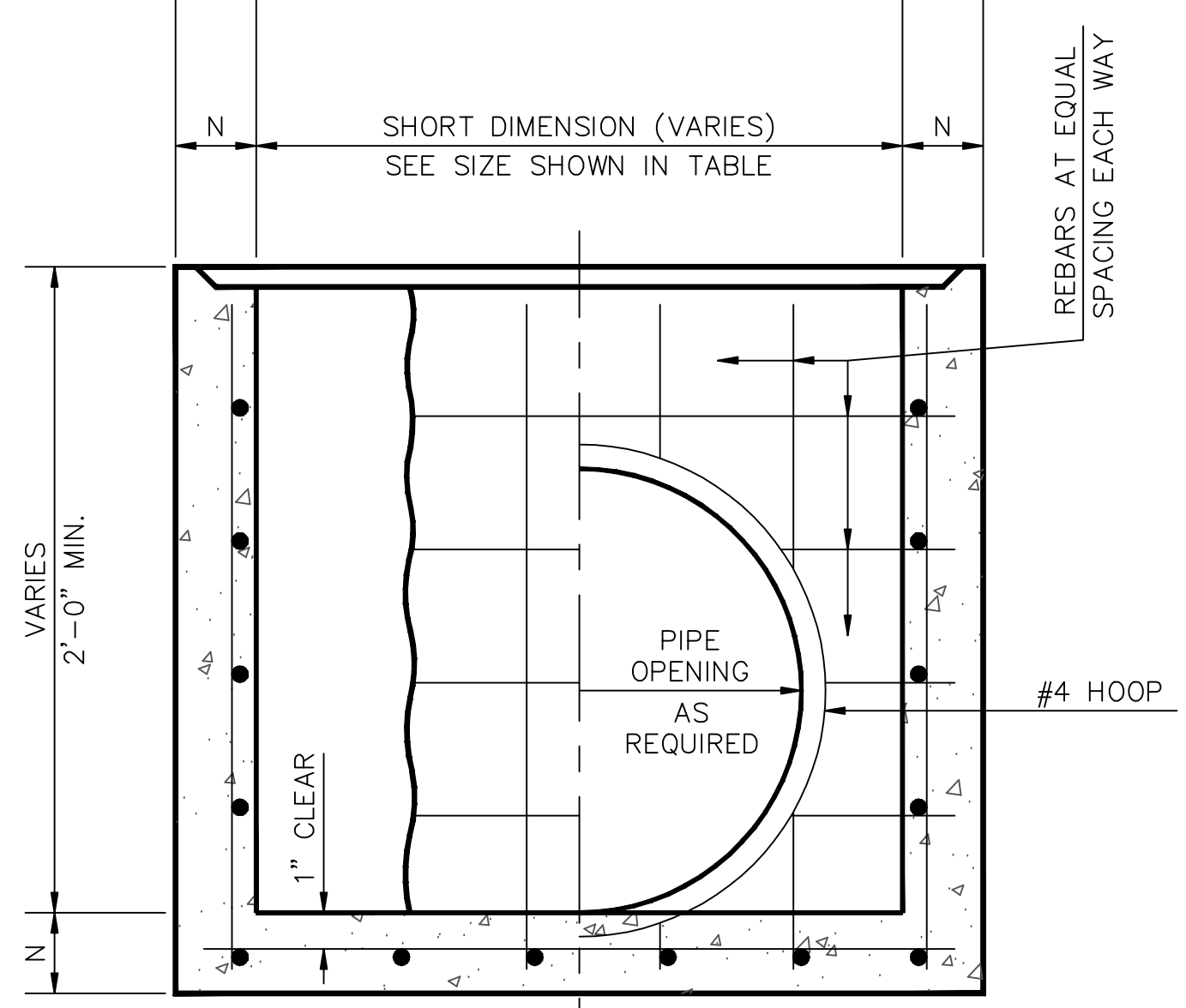
PLAN



TYPICAL COMPOSITE STRUCTURE



OPTIONAL RISER UNIT



BASE UNIT

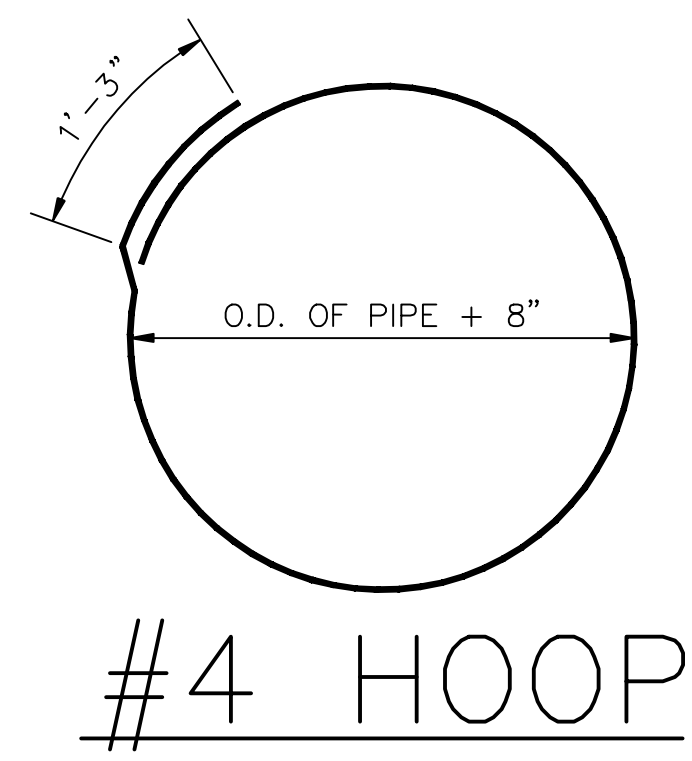
SECTION B-B

		4' MAX. DIMENSION				6' MAX. DIMENSION			8' MAX. DIMENSION			10' MAX. DIMENSION		
		TYPICAL [3'x3' SIZES 4'x4'				TYPICAL [6'x4' SIZES 6'x6'			TYPICAL [8'x4' SIZES 8'x6' 8'x8'			TYPICAL [10'x4' SIZES 10'x6' 10'x8' 10'x10'		
MAX. HT.	N	BAR SIZE	SPAC.*	AS	BAR SIZE	SPAC.*	AS	BAR SIZE	SPAC.*	AS	BAR SIZE	SPAC.*	AS	
Feet	Inches		Inches	in <sup>2</sup> /ft		Inches	in <sup>2</sup> /ft		Inches	in <sup>2</sup> /ft		Inches	in <sup>2</sup> /ft	
8	4	4	8	0.30										
8	6	4	12	0.20	4	8	0.30	4	5.5	0.44	5	5.5	0.68	
14	6	4	9	0.27	4	6	0.40	5	5	0.74	5	4.0	0.93	
20	6	4	7	0.34	4	4.5	0.53							

OTHER SIZES ARE ACCEPTABLE AS LONG AS THE DIMENSIONS DO NOT EXCEED THE MAXIMUM DIMENSION.

\*BAR SPACING APPLIES TO BOTH DIRECTIONS AND AT ALL LOCATIONS.

BAR SIZES AND SPACING MAY DIFFER FROM VALUES SHOWN, BUT THE AREA OF STEEL (As) SHALL BE EQUAL TO OR GREATER THAN VALUE SHOWN, AND BAR SPACING SHALL NOT EXCEED 12 INCHES. THE AREA OF STEEL (As) MAY BE PROVIDED WITH WELDED STEEL WIRE FABRIC.



#4 HOOP

GENERAL NOTES

- THESE PRECAST UNITS ARE TO BE USED AS THE LOWER PORTION OF A COMPOSITE STRUCTURE. THE CAST-IN-PLACE FINISHING DETAILS ARE SHOWN ON OTHER STANDARD PLANS.
- CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI BEFORE ACCEPTANCE & SHIPPING OF UNITS. REINFORCING STEEL TO BE GRADE 60, OTHERWISE D.O.T.D. STD. SPECIFICATIONS.
- PIPE OPENING TO BE FORMED ONLY WHEN REQUIRED. OTHERWISE, WALL SECTION SHALL BE AS SHOWN.
- PIPE OPENING TO BE O.D. OF PIPE + 4" 1/2".
- PIPE TO BE GROUTED IN AFTER INSTALLATION.
- JOINTS BETWEEN PRECAST UNITS TO BE SEALED WITH FLEXIBLE PLASTIC GASKET MATERIAL AND WRAPPED WITH A 12" WIDTH OF GEOTEXTILE FABRIC (SEE DOTD OPL).
- JOINT BETWEEN CAST-IN-PLACE SECTION AND PRECAST UNIT TO BE TONGUE AND GROOVE AND SEALED WITH TYPE II GRADE A EPOXY (SEE DOTD OPL) OR FLAT JOINT WITH A MINIMUM OF 12" OF NO.4 BARS AT 18" CTRS. (MAX.) EXTENDED ABOVE THE JOINT.

STANDARD PLAN NO.	PC-01	SHEET	1 OF 1
<b>PRECAST CATCH BASINS AND MANHOLES</b>			
DATE: FEB. 21, 1990			
STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT			
4-16-90	EDITORIAL	P.A.A.	DESIGNED P.A.A. DETAILED K.A.J. TRACED
DATE	DESCRIPTION REVISIONS	BY	CHECKED P.A.A. CHECKED DATE
		APPROVED BY CHIEF ENGINEER	


SHEET SIZE: 24" x 36" PLOT SCALE: 1" = 40" R:\LIBRARY\STANDARDS\PC-01.dwg

