

CYPRESS LANDING TOWNHOMES

(A MULTI-FAMILY DEVELOPMENT)

LOCATED IN SECTION 20, T6S-R3E,
GREENSBURG LAND DISTRICT
LIVINGSTON PARISH, LOUISIANA

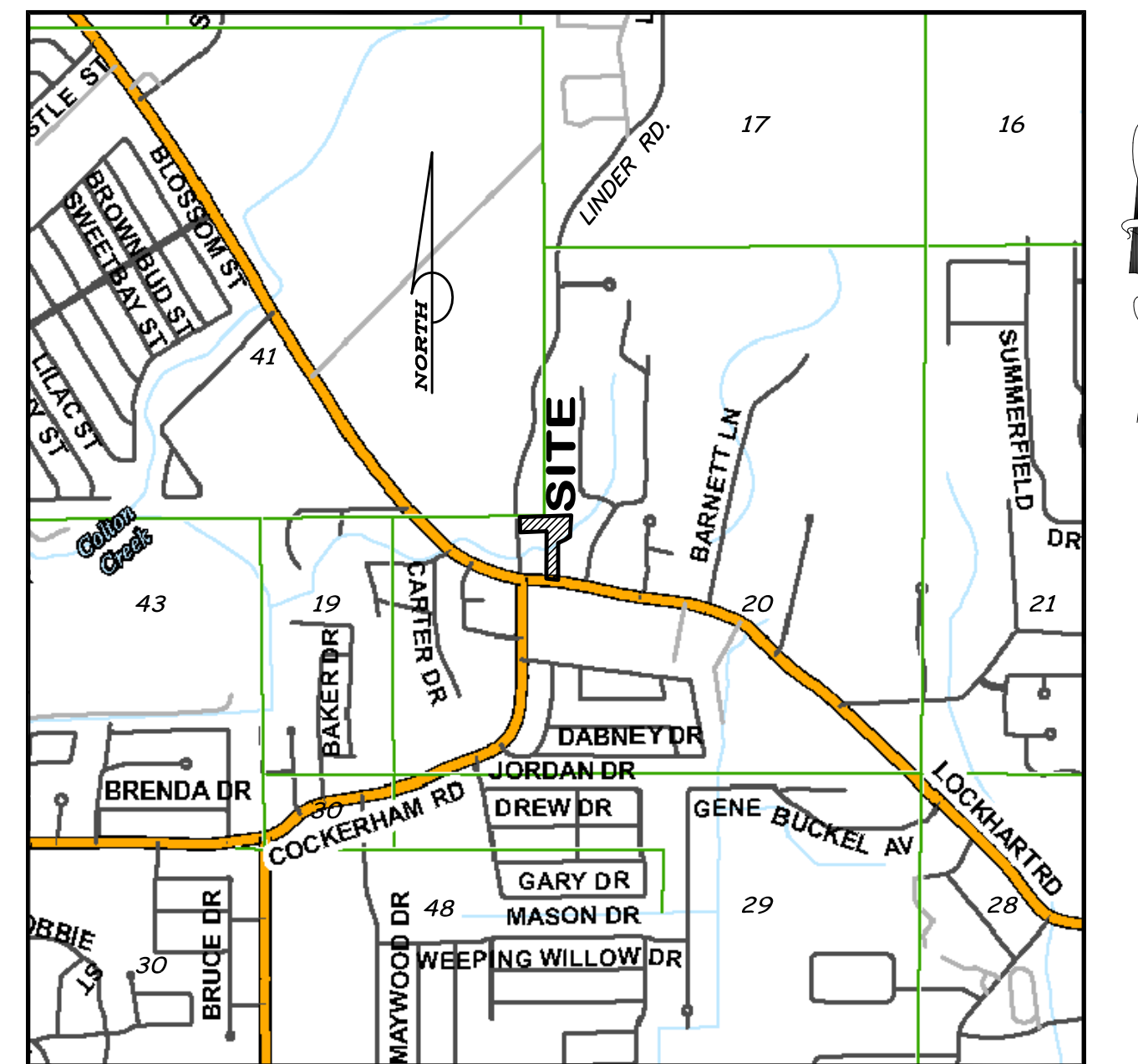
PLAN OF PROPOSED PAVEMENT, WATER, DRAINAGE AND SEWERAGE IMPROVEMENTS

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GENERAL CONSTRUCTION NOTES:

- 1.) CONTOURS SHOWN EXISTED PRIOR TO CONSTRUCTION AND SHALL NOT BE USED FOR SUBSEQUENT ACTIVITY.
- 2.) UNLESS OTHERWISE SPECIFIED, ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE LIVINGSTON PARISH SUBDIVISION ORDINANCE, AND THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (LATEST EDITION). ALTHOUGH, FOR ALL WORK PERFORMED WITHIN THE LADOTD RIGHT-OF-WAY THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (LATEST EDITION) WILL TAKE PRECEDENCE.
- 3.) THE ENGINEER WILL PROVIDE THE STAKEOUT OF ALL CONSTRUCTION LAYOUT REQUIRED TO PRODUCE THE DESIGN IN SUBSTANTIAL CONFORMANCE WITH THESE PLANS AND SPECIFICATIONS ONE TIME AT THE OWNER'S EXPENSE. ANY ADDITIONAL STAKEOUT WILL BE AT THE EXPENSE OF THE CONTRACTOR AND SHALL BE INCLUDED IN HIS PRICE. THE ENGINEER SHALL FURNISH ONE BENCH MARK AND TWO CONTROL POINTS.
- 4.) 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 \$75 PER SET.
- 5.) 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.
- 6.) THE PROJECT OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ANY REQUIRED PERMITS FROM ANY GOVERNING BODIES AND AGENCIES NEEDED FOR CONSTRUCTION. THESE MAY INCLUDE, BUT NOT LIMITED TO, A DEQ LPDES PERMIT, LADOTD DAM PERMIT, DHH SEWER DISCHARGE PERMIT, DEQ LPDES NOI SANITARY SEWER DISCHARGE PERMIT (WPS-S) AND A USACOE WETLANDS PERMIT.
- 7.) CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH TESTING OF STREETS, SEWER, AND WATER SYSTEM, AS REQUIRED BY THE LIVINGSTON PARISH ORDINANCE. THE TESTING LAB SHALL BE APPROVED BY ENGINEER AND OWNER.
- 8.) ALL TRAFFIC AND STREET SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION. IN ADDITION, NO STREET IN THIS SUBDIVISION IS TO BE OPEN TO TRAFFIC UNTIL PROPER INTERSECTION CONTROL SIGNS HAVE BEEN INSTALLED BY THE CONTRACTOR OR DEVELOPER.
- 9.) CONTRACTOR SHALL INCLUDE IN HIS PRICE EROSION CONTROL PROTECTION AT ALL INLETS AND DRAINAGE WAYS. INSTALLATION TO BE MADE PRIOR TO ROUGH GRADING.
- 10.) CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF UTILITY COMPANIES AND DETERMINING THE LOCATION OF VARIOUS UTILITY LINES, AND ANY DAMAGE THERE TO. 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.
- 11.) IT SHALL BE THE RESPONSIBILITY OF THE PROJECT OWNER AND CONTRACTOR TO SECURE A LOUISIANA POLLUTANT DISCHARGE ELIMINATION SYSTEM (LPDES) GENERAL PERMIT, DEVELOP A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED BY THE E.P.A., AND IMPLEMENT BEST MANAGEMENT PRACTICES (BMP) AT THE CONSTRUCTION SITE DURING THE ENTIRETY OF CONSTRUCTION ACTIVITIES.
- 12.) ALL SANITARY SEWER LINES, TREATMENT PLANTS OR SEWERAGE TREATMENT FACILITIES SHALL BE APPROVED BY THE LOUISIANA DEPARTMENT OF HEALTH AND HOSPITALS BEFORE BEGINNING CONSTRUCTION OF SEWER IMPROVEMENTS.
- 13.) CONTRACTOR SHALL EXCAVATE ALL MUCK MATERIAL FROM EXISTING DITCHES BELOW PROPOSED ROADWAY (IF APPLICABLE) AND BACKFILL WITH SUITABLE BASE MATERIAL.
- 14.) THE ENGINEER'S SCHEDULE OF ITEMS IS AN ESTIMATE ONLY. THE OWNER/CONTRACTOR/SUBCONTRACTOR (WHICHEVER APPLIES) IS RESPONSIBLE FOR SUBMITTING FINAL BID AND QUANTITIES FOR REVIEW WHICH SHALL INCLUDE ALL WORK AND MATERIALS TO COMPLETE JOB (DIRECT PAY OR NOT). IF ANY ITEM(S) NECESSARY TO COMPLETE THE JOB WERE INADVERTENTLY LEFT OFF OF THE PLANS, THE OWNER SHALL BE RESPONSIBLE FOR FUNDING THE NECESSARY ITEMS AND LABOR AT UNIT PRICES GIVEN BY THE CONTRACTOR.
- 15.) PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN THE LADOTD RIGHT-OF-WAY, THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AN APPROVED LADOTD DRIVEWAY/PROJECT PERMIT AS REQUIRED FOR THE SPECIFIC WORK ACTIVITIES.
- 16.) THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER, PARISH AND REVIEW ENGINEER A SEQUENCE OF CONSTRUCTION (INCLUDING EXPECTED DATE OF STRIPPING AND CLEARING; ROUGH GRADING; INSTALLATION OF TEMPORARY EROSION AND SEDIMENT MEASURES; DURATION OF EXPOSURE OF CLEARED AREAS AND ESTIMATED DATE OF ESTABLISHMENT OF PERMANENT VEGETATION IS ALSO REQUIRED).
- 17.) THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER, PARISH AND REVIEW ENGINEER 30 DAYS PRIOR TO COMPLETION OF CONSTRUCTION, THE SEEDING MIXTURES AND RATES, TYPES OF SOD, METHOD OF SEEDBED PREPARATION, EXPECTED SEEDING DATES, TYPE AND RATE OF LIME AND FERTILIZER CONTROL MEASURES.
- 18.) THE CONTRACTOR SHALL PROVIDE A COPY OF THE NOTICE OF INTENT TO MR. MARK HARRELL AS WELL AS THE PLANNING DEPARTMENT.
- 19.) IN NO PART OF THIS PLAN SET IS A BOUNDARY SURVEY MEETING LOUISIANA MINIMUM STANDARDS. BOUNDARY INFORMATION WAS TAKEN FROM REFERENCE MATERIAL PROVIDED BY THE OWNER & TOPOGRAPHIC INFORMATION WAS PROVIDED BY MCLIN TAYLOR.



VICINITY MAP

SCALE: 1" = 2000'

NOTE:
THE 2016 EDITION OF THE LOUISIANA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS AMENDED BY THE PROJECT SPECIFICATIONS, SHALL GOVERN ON THIS PROJECT.

● **REFERENCE BENCHMARK:**
GPS - C4GNET - REAL TIME NETWORK (NAVD 1983)

● **SITE BENCHMARK:** TO BE SET AT OWNER/CONTRACTOR REQUEST
ELEV. XX.XX'

NOTE: No part of the plans constitutes a boundary survey, the boundary information shown is referenve data only.

****NOTE:** Engineer's Certification: I hereby certify that the design of the subdivision improvements, to the best of my knowledge, conforms to the current Parish Subdivision Regulations, current design standards of the Department of Public Works, and sound engineering practices.

DESIGNED BY:

WILLIAM L. TAYLOR, II
PROFESSIONAL ENGINEER

DATE

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.

RECOMMEND TO APPROVE:
LIVINGSTON PARISH E.R.A.

REVIEW ENGINEER

DATE

APPROVED:
LIVINGSTON PARISH COUNCIL

PLANNING DIRECTOR

DATE

CLIENT: BRAD MARCOTTE CONSTRUCTION, L.L.C.

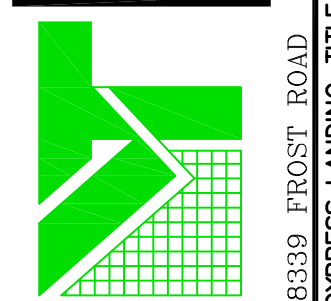
32440 DUNN ROAD
DENHAM SPRING, LA 70726
(225) 485-4968

**CYPRESS LANDING
PRELIMINARY PLANS
TITLE SHEET**

LOCATED IN SECTION 20, T6S-R3E
GREENSBURG LAND DISTRICT
LIVINGSTON PARISH, LOUISIANA
FOR
BRAD MARCOTTE CONSTRUCTION, L.L.C.

WILLIAM L. TAYLOR, II
Name
PRELIMINARY
34361
Lic. No.

Mclin Taylor, Inc.
Engineering and Land Surveying
28339 FROST ROAD, LIVINGSTON, LA 70754 (225) 668-1414
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DATE: 11/29/18

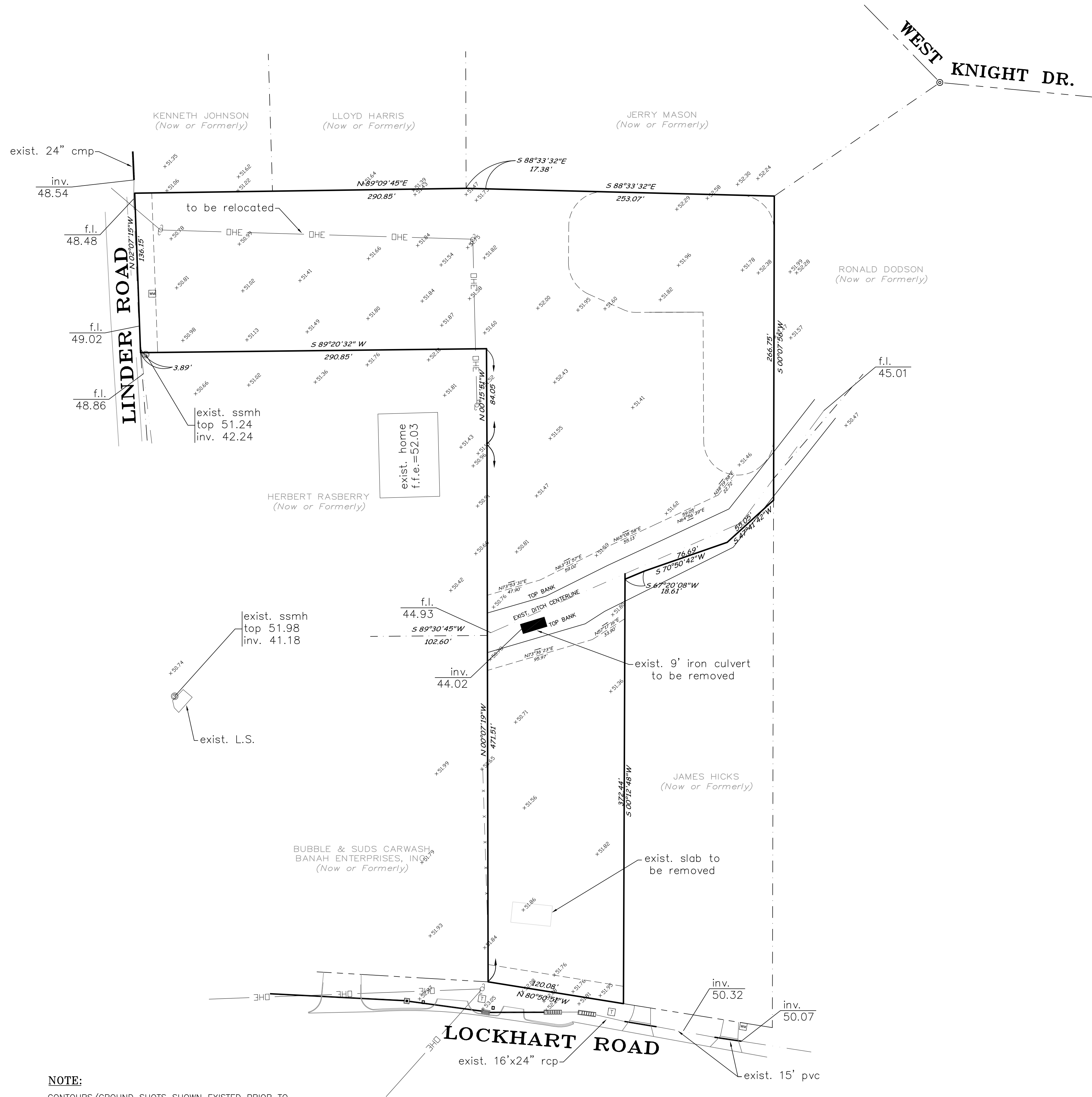
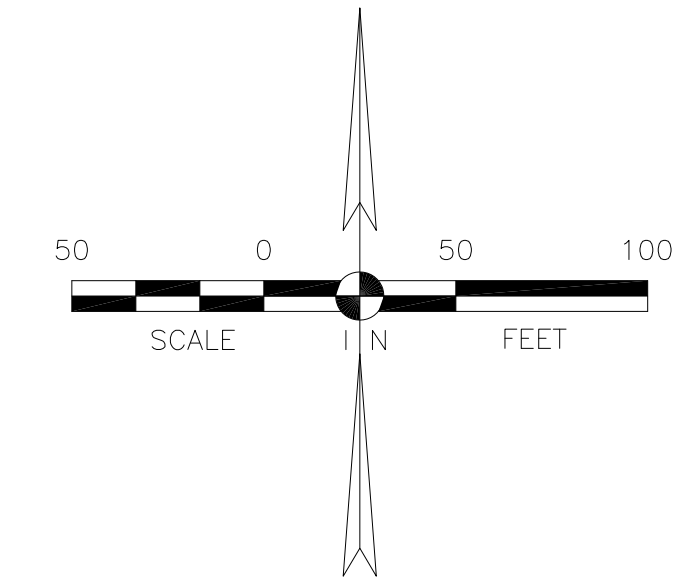
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JOB NO.
2180194

SHEET NO.
C1.0

PRELIMINARY - FOR PERMIT PURPOSES ONLY

A WETLANDS INVESTIGATION WAS NOT REQUESTED AND IS NOT A PART OF THIS SURVEY. THIS SITE PLAN IS NOT INTENDED TO SHOW AN ACTUAL BOUNDARY SURVEY OF THIS PROPERTY MEETING LOUISIANA MINIMUM STANDARDS.



NOTE:

A BOUNDARY SURVEY IS NOT IN THIS SCOPE OF WORK. THIS SITE PLAN IS NOT INTENDED TO REPRESENT A BOUNDARY SURVEY MEETING LOUISIANA MINIMUM STANDARDS. BOUNDARY AND TOPOGRAPHIC INFORMATION WAS PROVIDED BY MCLIN TAYLOR, INC.

REFERENCE MAP:

1. MAP SHOWING SURVEY & REMOVAL OF A 0.987 ACRE TRACT AND SURVEY OF A 2.877 ACRE TRACT INTO TRACT BM-1 BY MCLIN TAYLOR, INC. (BRETT MARTIN, P.L.S.), DATED 08/16/2018.

LEGEND

- EXIST. FENCE
- 42-45 EXISTING DITCH FLOWLINE ELEVATION
- EXISTING DITCH
- EXISTING POWER POLE
- ⊙ EXISTING SEWER MANHOLE
- s — EXISTING SEWER LINE
- OHE — EXISTING OVERHEAD ELECTRIC
- ⊞ EXISTING WATER METER
- ⊞ EXISTING TELEPHONE

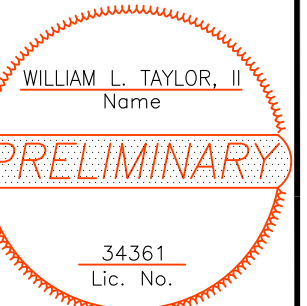
NOTE:

CONTOURS/GROUND SHOTS SHOWN EXISTED PRIOR TO CONSTRUCTION AND SHALL NOT BE USED FOR SUBSEQUENT ACTIVITY.

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE SALES, OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.

**CYPRESS LANDING
PRELIMINARY PLANS
EXISTING CONDITIONS/DEMOLITION PLAN**

LOCATED IN SECTION 20, T6S-R3E
GREENSBURG LAND DISTRICT
LIVINGSTON PARISH, LOUISIANA
FOR
BRAD MARCOTTE CONSTRUCTION, L.L.C.



McLin Taylor, Inc.
Engineering and Land Surveying
LIVINGSTON, LA 70754 (225)666-1444
28339 FROST ROAD



DRAWN BY: ECS
DESIGN BY: WLT
CHECKED BY: WLT
DATE: 11/29/18

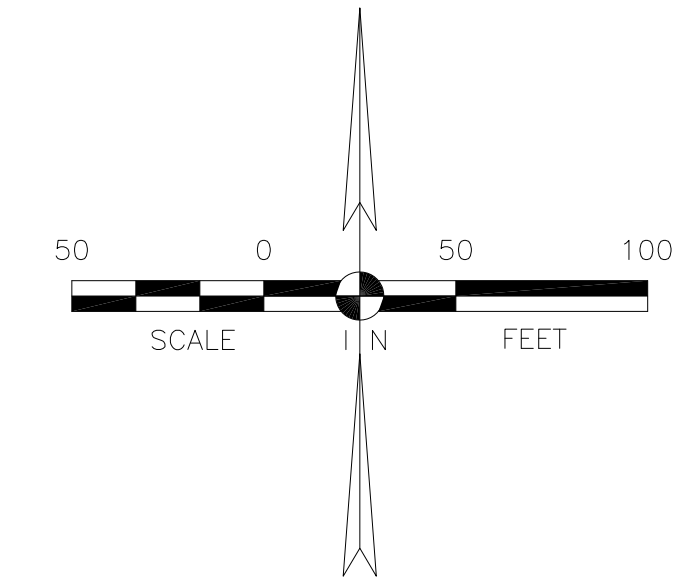
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JOB NO. 2180194

SHEET NO. C1.1

X:\LP-18\2180194_LOCKHART ROAD\DWG\CONSTRUCTION PLANS\C1.1_CYPRESS LANDING_EXIST CONDITIONS-DEMOLITION LAYOUT.DWG JAN-14-2019 ESPE

A WETLANDS INVESTIGATION WAS NOT REQUESTED AND IS NOT A PART OF THIS SURVEY. THIS SITE PLAN IS NOT INTENDED TO SHOW AN ACTUAL BOUNDARY SURVEY OF THIS PROPERTY MEETING LOUISIANA MINIMUM STANDARDS.



BUILDING & PARKING SUMMARY

TOTAL NO. OF BUILDINGS: 7 (SINGLE STORY)
 TOTAL NO. OF UNITS: 32
 TOTAL NO. OF PARKING SPACES REQUIRED: 75
 TOTAL NO. OF PARKING SPACES PROVIDED: 96
 EACH UNIT HAS A GARAGE SPACE, A DRIVEWAY SPACE, AS WELL AS A GUEST PARKING SPACE.

NOTES:

- 1.) ALL DIMENSIONS ARE TO BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 2.) A BOUNDARY SURVEY IS NOT IN THIS SCOPE OF WORK. THIS SITE PLAN IS NOT INTENDED TO REPRESENT A BOUNDARY SURVEY MEETING LOUISIANA MINIMUM STANDARDS. BOUNDARY AND TOPOGRAPHIC INFORMATION WAS PROVIDED BY MCLIN TAYLOR, INC.
- 3.) CONTRACTOR TO VERIFY BUILDING AND PARKING LAYOUT WITH ARCHITECT/ENGINEER PRIOR TO FORMING BUILDING, WALKS, AND PARKING LOT SLABS.
- 4.) CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING UTILITIES WITHIN THE WORK AREA PRIOR TO EXCAVATIONS.
- 5.) ALL PARKING STALL STRIPING TO BE 4" WHITE. HANDICAP STRIPING TO BE IN ACCORDANCE WITH ADA STANDARDS AND SHALL BE REVIEWED BY STATE FIRE MARSHALL.
- 6.) THE LOCATIONS AND DIMENSIONS FOR BUILDINGS SHOWN ARE APPROXIMATE. DETAILED ARCHITECTURAL DRAWINGS SHALL BE CREATED FOR EACH BUILDING AND THIS PLAN WILL BE UPDATED IF NECESSARY.
- 7.) CONSTRUCTION FOR THIS PROJECT SHALL BE LIMITED TO THE SUBJECT PROPERTY ONLY. IMPROVEMENTS, CONSTRUCTION, ETC... IS PROHIBITED ON ADJACENT PROPERTY, UNLESS OTHERWISE APPROVED BY ADJACENT PROPERTY OWNER.

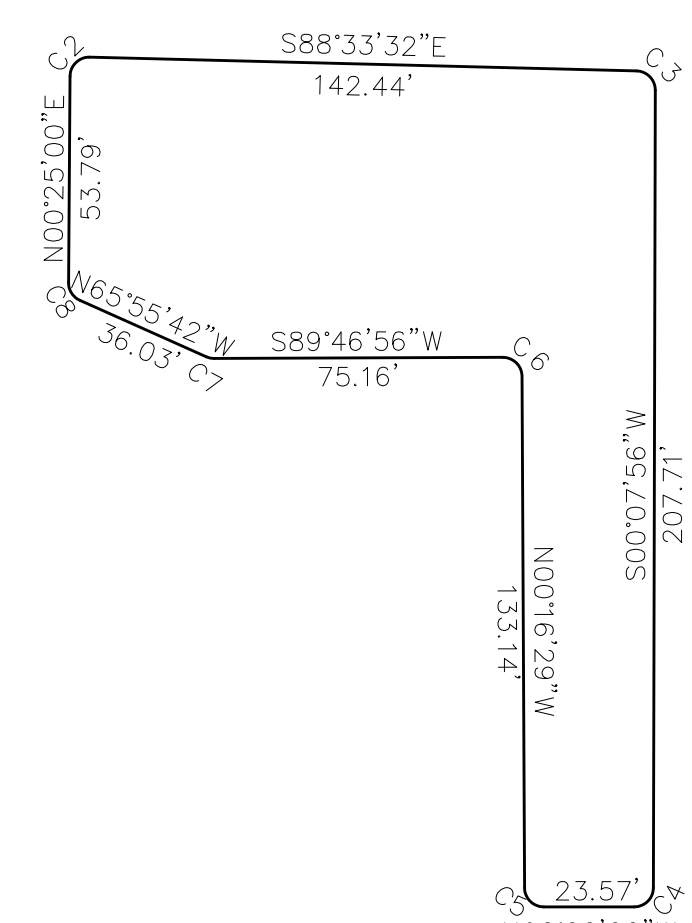
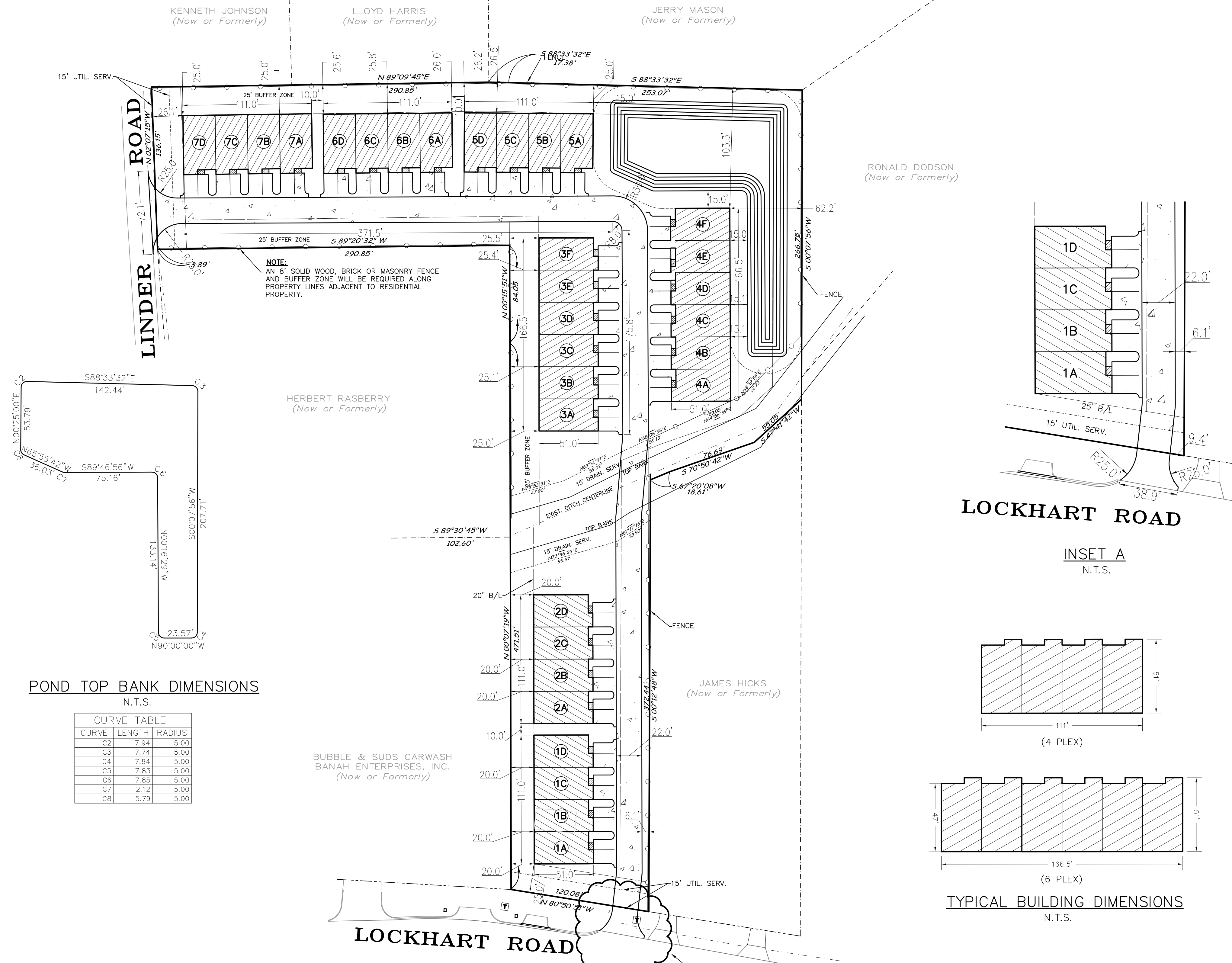
GENERAL NOTES:

TOTAL AREA: 3.864 ACRES
 ELECTRICITY: ENERGY/DEMCO
 TELEPHONE: COX/AT&T
 WATER DISTRICT: WARD 2 WATER
 SEWER DISTRICT: No. 1
 SEWER DISPOSAL: COLLECTION SYSTEM TO CONNECT TO SEWER DISTRICT SYSTEM
 GAS: CITY OF DENHAM SPRINGS
 SCHOOL DISTRICT: No. 1
 FIRE DISTRICT: No. 5
 GRAVITY DRAINAGE DISTRICT: No. 1
 RECREATION DISTRICT: No. 3
 COUNCIL DISTRICT: No. 3
 STREETS: PRIVATE DRIVES CONNECTING TO PUBLIC ROADWAY
 BUILDING LINES: FRONT - 25'
 REAR - 20'
 SIDELINES - 7'

DETENTION POND IS TO BE PRIVATELY OWNED AND MAINTAINED.

NO PERSON SHALL PROVIDE OR INSTALL A METHOD OF SEWERAGE DISPOSAL OTHER THAN CONNECTION TO AN APPROVED SANITARY SEWER SYSTEM, UNTIL THE METHOD OF SEWAGE TREATMENT AND DISPOSAL HAS BEEN APPROVED BY THE HEALTH UNIT OF THE PARISH OF LIVINGSTON.

PRIOR TO ANY WORK WITHIN THE LDOTD RIGHT-OF-WAY, AN APPROVED LDOTD DRIVEWAY PERMIT MUST BE GRANTED.

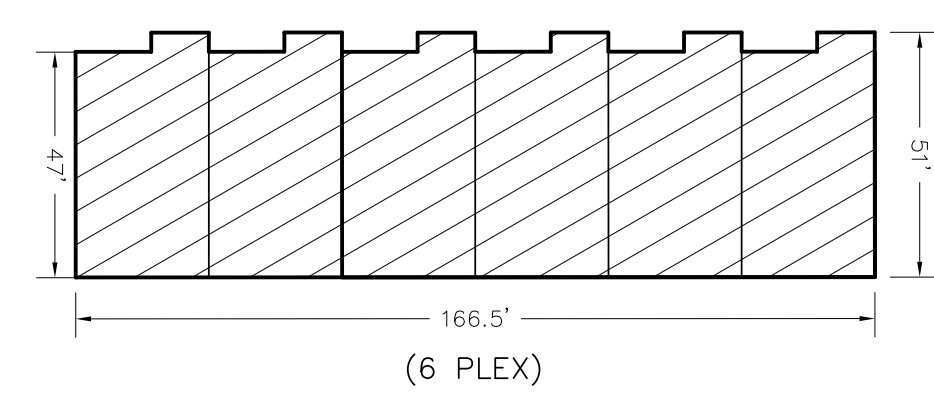
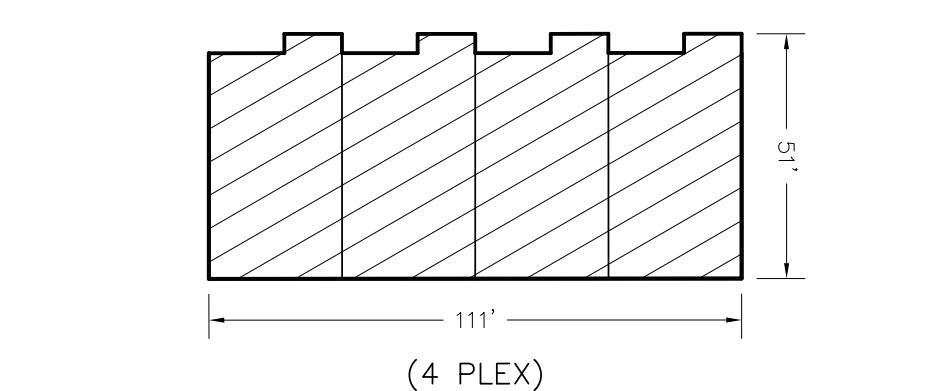


POND TOP BANK DIMENSIONS
N.T.S.

| CURVE TABLE | | |
|-------------|--------|--------|
| CURVE | LENGTH | RADIUS |
| C2 | 7.94 | 5.00 |
| C3 | 7.74 | 5.00 |
| C4 | 7.84 | 5.00 |
| C5 | 7.83 | 5.00 |
| C6 | 7.85 | 5.00 |
| C7 | 2.12 | 5.00 |
| C8 | 5.79 | 5.00 |

LOCKHART ROAD

INSET A
N.T.S.

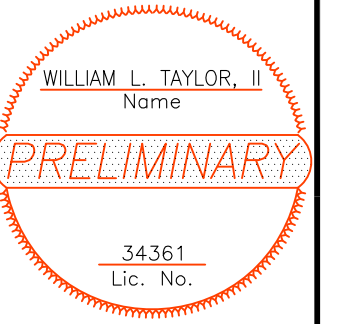


TYPICAL BUILDING DIMENSIONS
N.T.S.

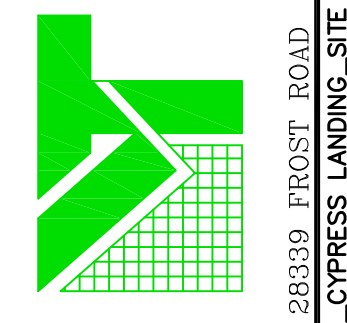
6" CONCRETE PARKING LOT
 PROPOSED BUILDING

**CYPRESS LANDING
 PRELIMINARY PLANS
 SITE GEOMETRICS**

LOCATED IN SECTION 20, T6S-R3E
 GREENSBURG LAND DISTRICT
 LIVINGSTON PARISH, LOUISIANA
 FOR
BRAD MARCOTTE CONSTRUCTION, L.L.C.



McLin Taylor, Inc.
 Engineering and Land Surveying
 LIVINGSTON, LA. 70754 (225) 686-1444
 28339 FROST ROAD LIVINGSTON, LA. 70754 (225) 686-1444
 GEOMETRICS.DWG JAN-14-2019 ESP/ARS



DRAWN BY: ECS
 DESIGN BY: WLT
 CHECKED BY: WLT
 DATE: 11/29/18

| REVISIONS |
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JOB NO. **2180194**
 SHEET NO. **C2.1**

CLEARING/GRUBBING NOTES:

1. THE ENTIRE SITE SHALL BE CLEARED AND GRUBBED, UNLESS OTHERWISE NOTED. ALL OBJECTIONABLE MATERIAL SHALL BE REMOVED. THESE MATERIALS INCLUDE STUMPS, ROOTS, ORGANIC LADEN SOIL ORGANIC MATTER, AND ANY RUBBLE OR DEBRIS THAT MAY BE PRESENT.
2. A MINIMUM OF 5 INCHES MUST BE STRIPPED FROM THE SITE TO REMOVE TOPSOIL AND ORGANIC MATERIAL.

FILL/COMPACTION NOTES:

1. STRUCTURAL FILL: (BENEATH FOOTINGS, BUILDING PADS, OR PARKING/DRIVEWAY AREAS) COMPACT TO AT LEAST 95 PERCENT OF ITS MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM D 698).
2. GRADING FILL: (OUTSIDE OF THE AREAS LISTED ABOVE) COMPACT TO AT LEAST 90 PERCENT OF ITS MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM D 698).

SUBGRADE NOTES:

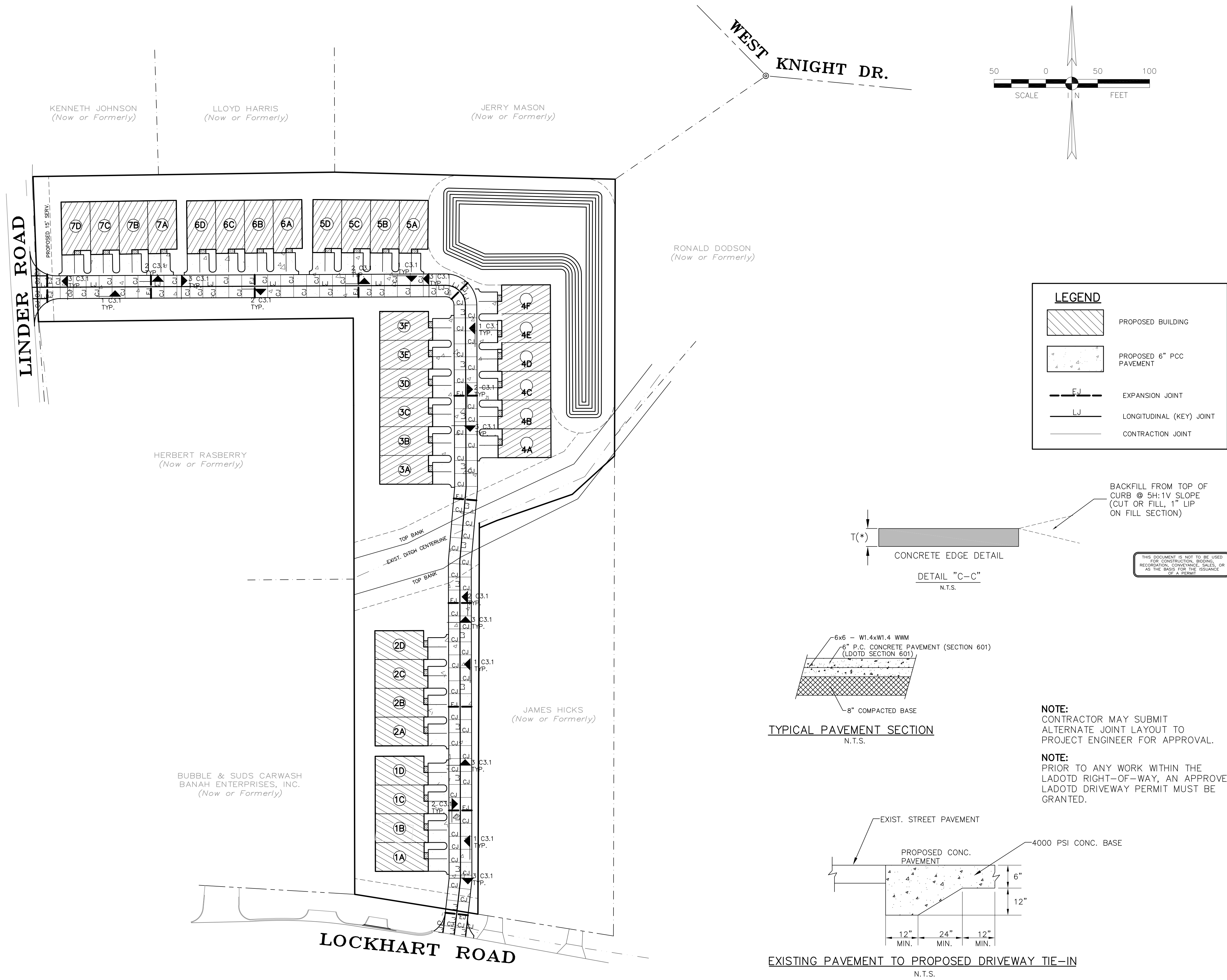
1. IMMEDIATELY PRIOR TO CONSTRUCTION OF PAVEMENTS, THE UPPER 8" SHALL BE COMPACTED TO ACHIEVE AT LEAST 95% OF THE STANDARD EFFORT MAXIMUM DRY DENSITY, WITH THE MOISTURE CONTENT WITHIN THE +/- 2 % OF THE OPTIMUM MOISTURE CONTENT AND STABILITY SHALL BE PRESENT.
2. THE ENTIRE PARKING/DRIVEWAY AREA SHALL BE PROOF-ROLLED. CONTRACTOR SHALL MITIGATE UNSTABLE CONDITIONS THAT MAY BE ENCOUNTERED AS RECOMMENDED BY THE PROJECT ENGINEER AT THE TIME OF CONSTRUCTION.

NOTES:

1. ALL CONCRETE PAVING IN VEHICULAR AREAS SHALL BE 4000 PSI @ 28 DAYS CONCRETE. ALL JOINTS ARE TO EXTEND THROUGH THE CURB AT A 90° ANGLE.
2. FILL MATERIAL AND BASE IS TO BE COMPACTED AS SPECIFIED ABOVE, WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT. FILL LIFTS NOT TO EXCEED 9 INCHES IN LOSE THICKNESS. THE SURFACE OF EACH PRECEDING, COMPACTED LIFT SHALL BE LIGHTLY SCARIFIED TO ENSURE ADEQUATE BONDING BETWEEN LIFTS.
3. SIDEWALKS TO BE 4" THICK CONCRETE (3000 PSI @ 28 DAYS) WITH TOOLED OR SAWCUT JOINTS AT 5'-0" O.C. AND EXPANSION JOINTS AT 20'-0" O.C.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING UTILITIES WITHIN THE WORK AREAS PRIOR TO EXCAVATION.
5. THE TIMING OF GROOVING OR SAW CUTTING IS CRITICAL TO THE PREVENTION OF SHRINKAGE CRACKING IN THE PAVEMENT. BEGIN SAW CUTTING WITHIN 4-6 HOURS AFTER CONCRETE PLACEMENT OR AS SOON AS THE CONCRETE ALLOWS WHEN USING AN EARLY-ENTRY SAW.
6. ALL JOINT SEALANTS/FILLER SHALL BE IN ACCORDANCE WITH SECTION 1005 (JOINT MATERIALS FOR PAVEMENTS AND STRUCTURES) OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (RED BOOK, 2000 EDITION).

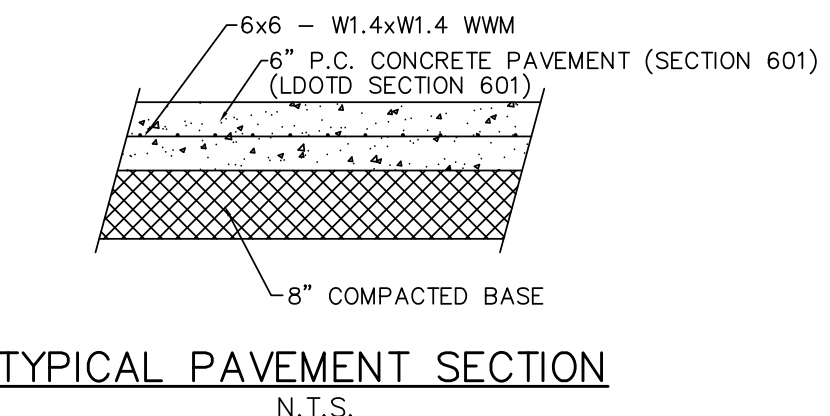
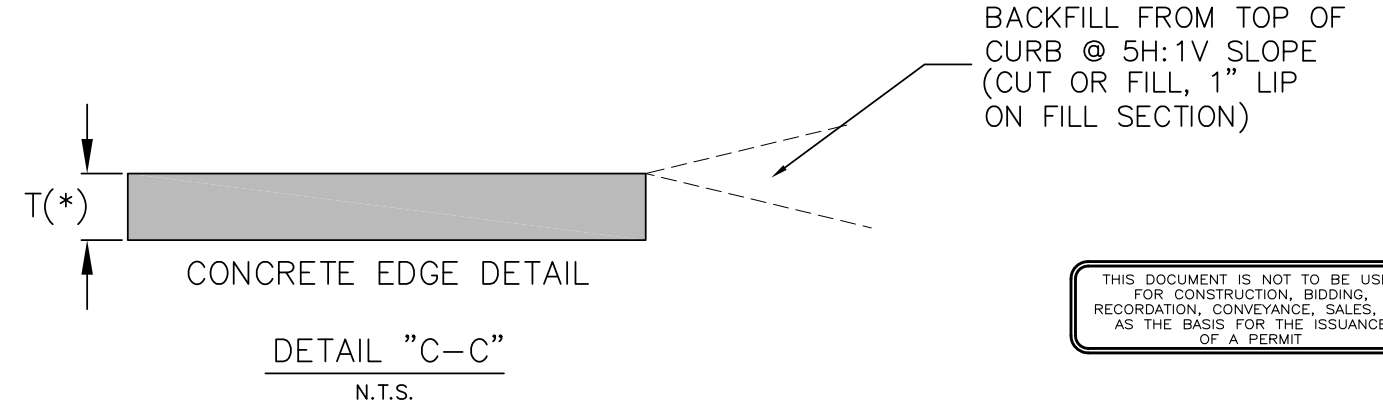
TESTING/INSPECTION REQUIREMENTS:

- THE FOLLOWING NOTES ARE THE MINIMUM TESTING AND INSPECTION REQUIREMENTS.
1. WITHIN 5 DAYS OF THE TEST RESULTS, A COPY OF THE TEST RESULTS SHALL BE SUBMITTED TO THE PROJECT ARCHITECT AND ENGINEER.
 2. AMPLE NUMBER OF FIELD DENSITY TESTS TO DETERMINE COMPACTION.
 3. PROOF-ROLL RESULTS.
 4. TEST SUB-BASE AND BASE PRIOR TO CONCRETE BEING POURED.
 5. PULL AND TEST STANDARD CONCRETE CYLINDERS FOR CONCRETE STRENGTH.
 6. CERTIFICATION OF CONCRETE THICKNESS.
 7. CERTIFY THAT JOINTS ARE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
 8. ANY AND ALL FAILURES SHALL BE REPAIRED AND PROOF-ROLLED AFTERWARDS WITH A FULLY LOADED 12 YARD DUMP TRUCK. ALL WORK SHALL BE PERFORMED IN PRESENCE OF TESTING LAB EMPLOYEES.
 9. TESTING COMPANY TO BE DETERMINED BY OWNER.



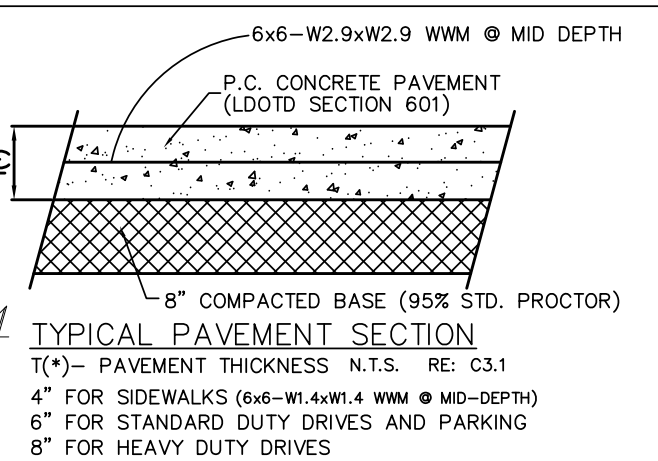
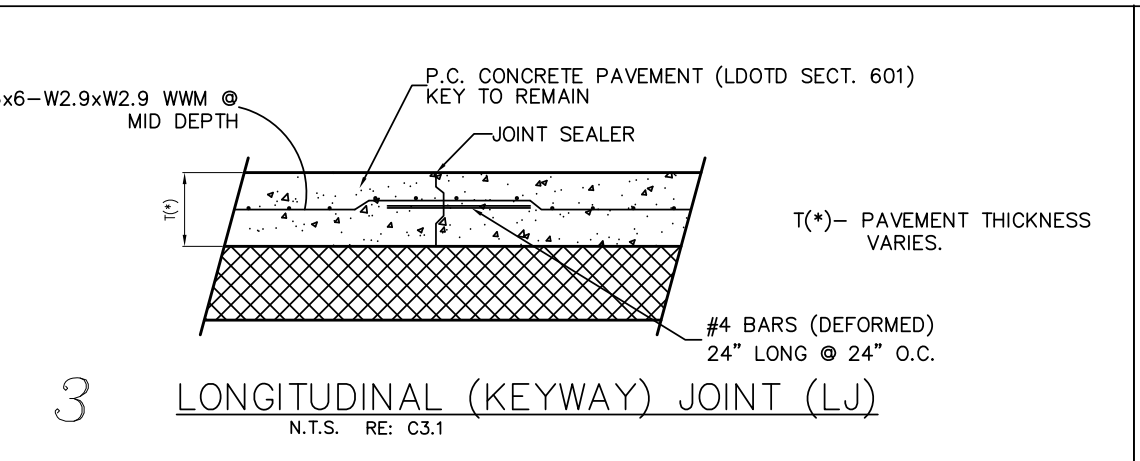
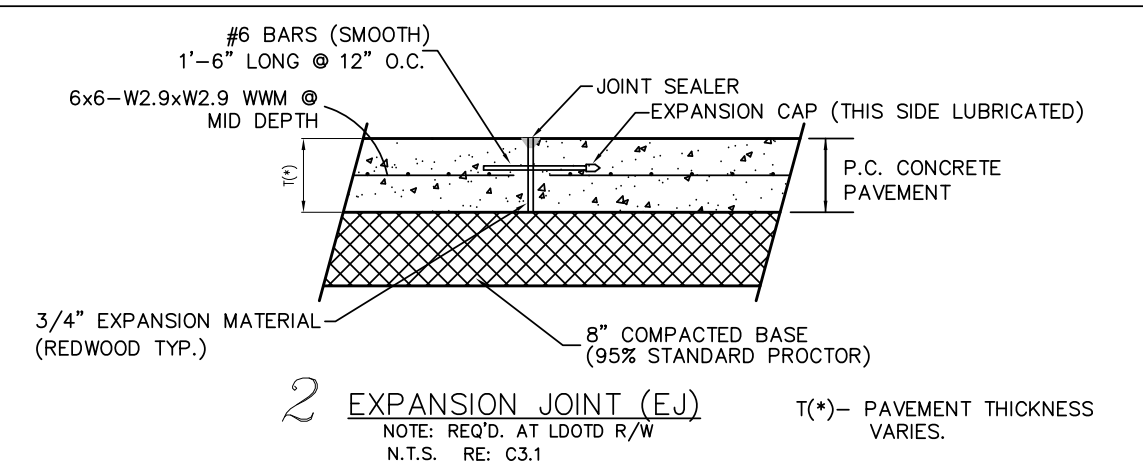
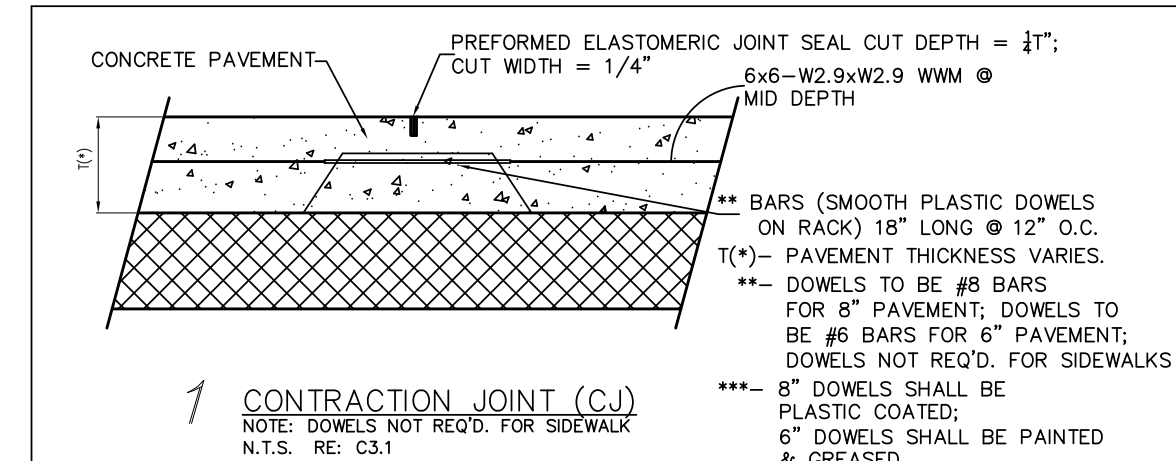
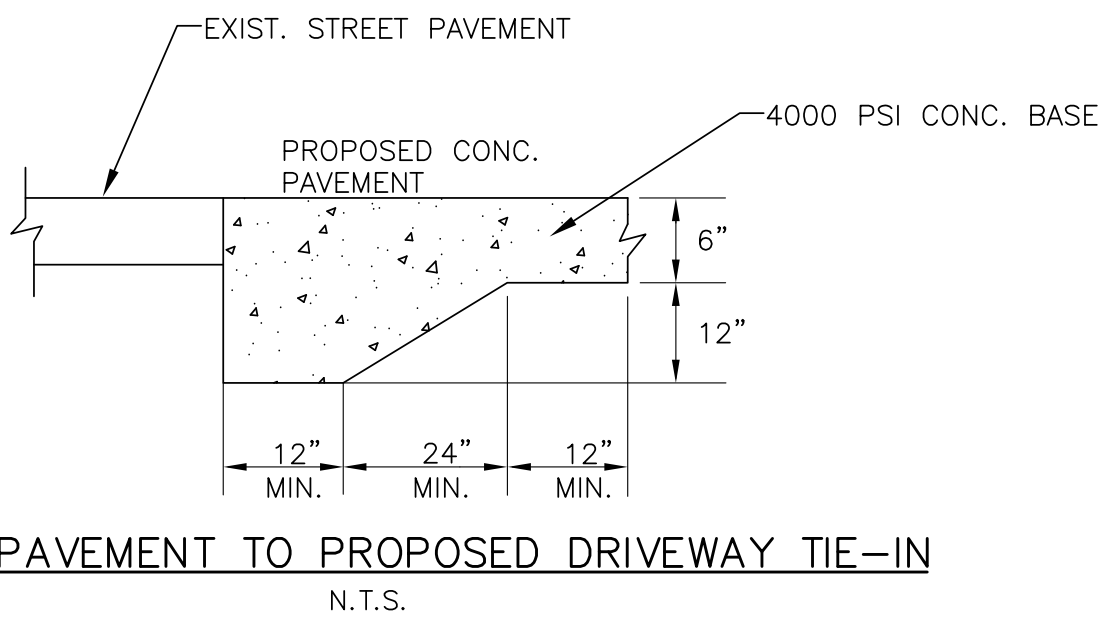
LEGEND

- PROPOSED BUILDING
- PROPOSED 6" PCC PAVEMENT
- EXPANSION JOINT (EJ)
- LONGITUDINAL (KEY) JOINT (LJ)
- CONTRACTION JOINT (CJ)



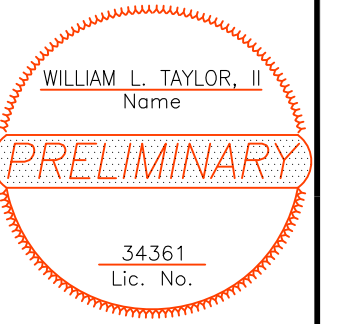
NOTE:
CONTRACTOR MAY SUBMIT ALTERNATE JOINT LAYOUT TO PROJECT ENGINEER FOR APPROVAL.

NOTE:
PRIOR TO ANY WORK WITHIN THE LADOTD RIGHT-OF-WAY, AN APPROVED LADOTD DRIVEWAY PERMIT MUST BE GRANTED.

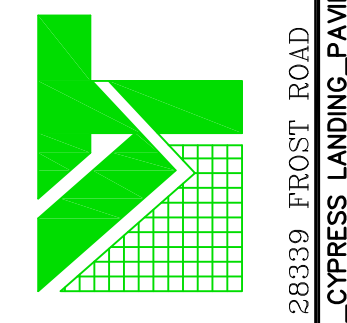


**CYPRESS LANDING
PRELIMINARY PLANS
PAVING/JOINT LAYOUT**

LOCATED IN SECTION 20, T6S-R3E
GREENSBURG LAND DISTRICT
LIVINGSTON PARISH, LOUISIANA
FOR
BRAD MARCOTTE CONSTRUCTION, L.L.C.



McLin Taylor, Inc.
Engineering and Land Surveying
LIVINGSTON, LA. 70754 (225) 666-1444
28339 FROST ROAD, CYPRESS LANDING, PAVING-JOINT LAYOUT.DWG JAN-14-2019 ESP:ARS



| | |
|-------------------|----------|
| DRAWN BY | ECS |
| DESIGN BY | WLT |
| CHECKED BY | WLT |
| DATE | 11/29/18 |
| REVISIONS | |
| JOB NO. | 2180194 |
| SHEET NO. | C3.1 |

A WETLANDS INVESTIGATION WAS NOT REQUESTED AND IS NOT A PART OF THIS SURVEY.
THIS SITE PLAN IS NOT INTENDED TO SHOW AN ACTUAL BOUNDARY SURVEY OF THIS PROPERTY MEETING LOUISIANA MINIMUM STANDARDS.

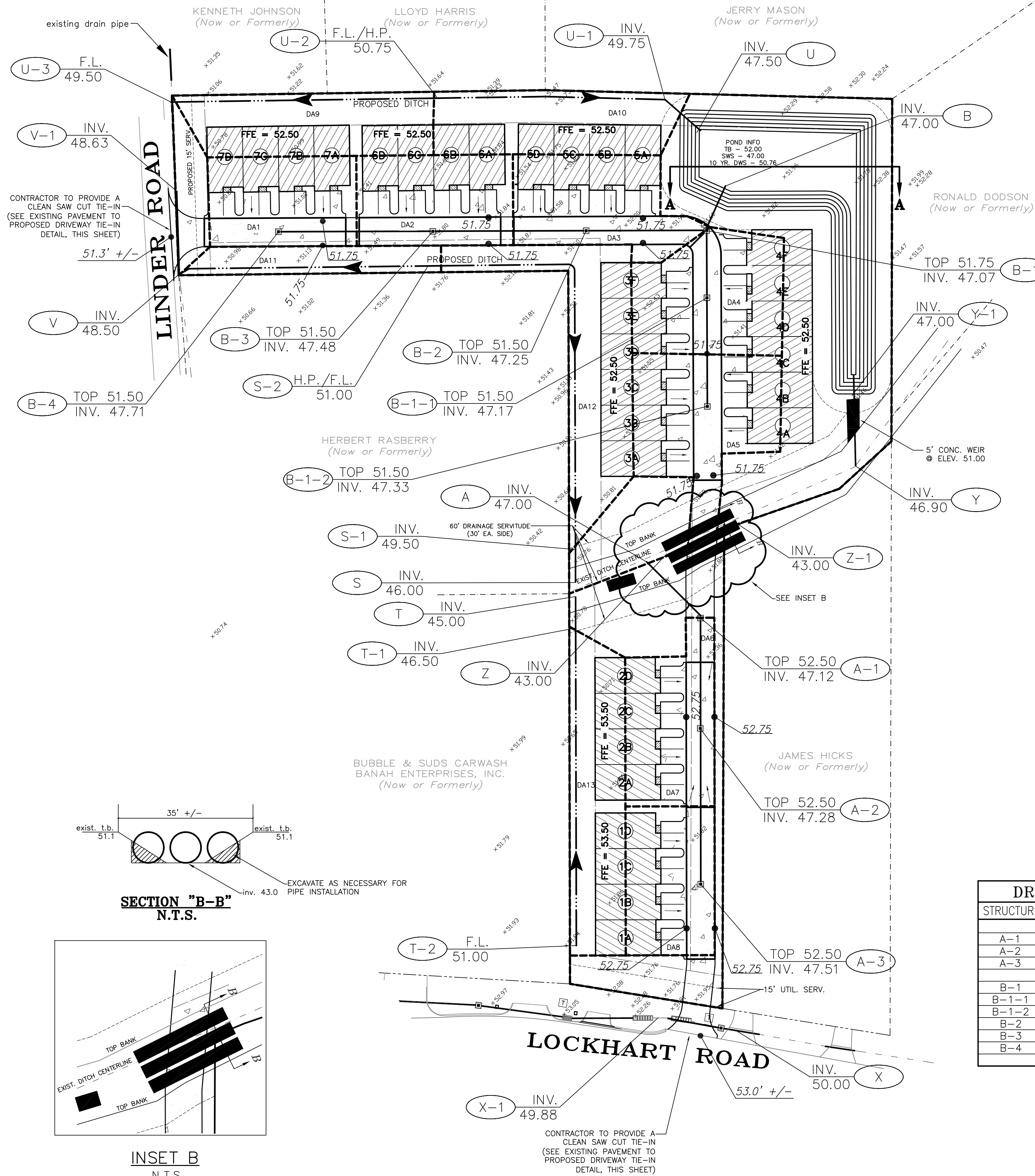
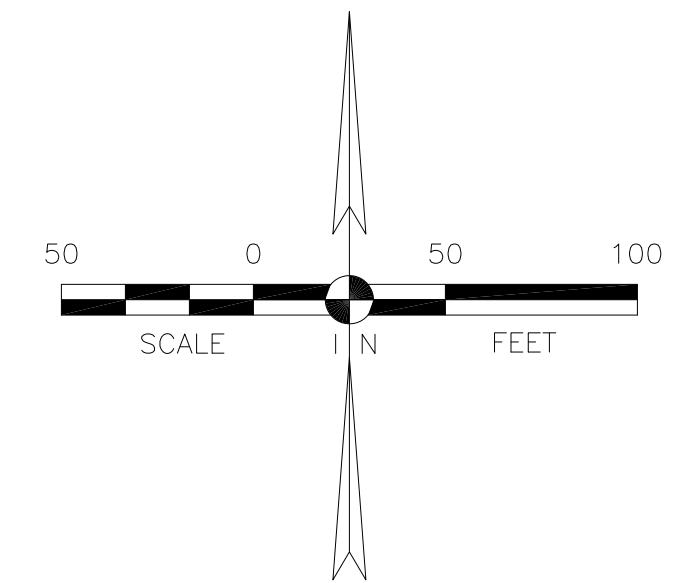
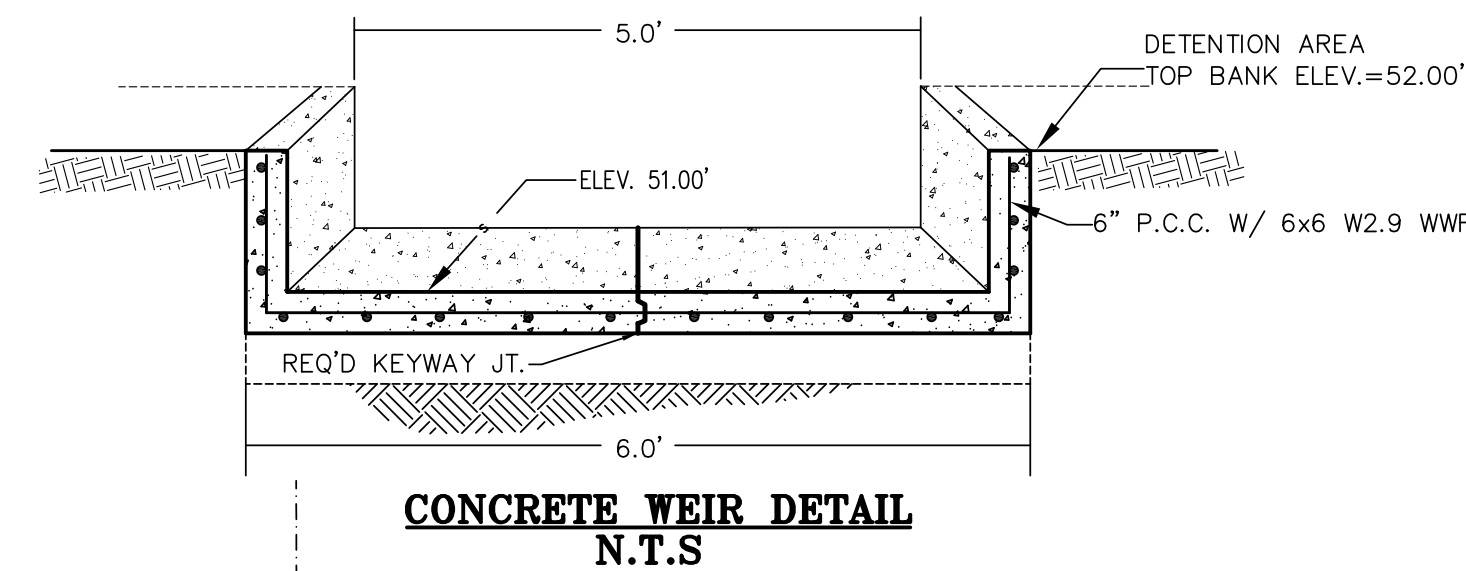
GENERAL NOTES:

- ALL DRAINAGE RUNOFF VALUES WERE DETERMINED BY THE EBR METHODOLOGY USING A 10 YEAR STORM, PER DRAINAGE CALCULATIONS.
- THIS DEVELOPMENT IS LOCATED IN FLOOD ZONE "X" AS PER FEMA FIRM PANEL NO. 220113 0120 E, DATED 4/3/2012. CONTACT THE APPROPRIATE PERMIT OFFICE FOR LATEST BFE BEFORE PROCEEDING WITH ANY BUILDING PLAN.
- DRIVEWAY CULVERTS SHALL BE ONE OF THE FOLLOWING:
 - REINFORCED CONCRETE PIPE (ASTM C-76, CLASS III)
 - BITUMINOUS COATED CORRUGATED STEEL PIPE (MINIMUM 14 GAGE)
 PIPES NOT LOCATED UNDER PAVEMENT FOR SUBSURFACE DRAINAGE SHALL BE THE FOLLOWING:
 - PLASTIC PIPE (AS APPROVED BY LA DOTD QPL LIST)
 PIPES LOCATED UNDER PAVEMENT FOR SUBSURFACE DRAINAGE SHALL BE THE FOLLOWING:
 - PLASTIC PIPE (AS APPROVED BY LA DOTD QPL LIST)
- SHAPE SITE TO DRAIN IN ACCORDANCE WITH THE DRAINAGE PLAN.
- DRAINAGE EXCAVATION SHALL BE USED TO SHAPE SITE IN ACCORDANCE WITH DRAINAGE PLAN. ANY EXCESS DRAINAGE EXCAVATION SHALL BE SPREAD OVER SITE.
- DITCH SIDE SLOPES SHALL BE SEEDED AND STABILIZED WITH DOUBLE NET STRAW EROSION CONTROL BLANKET. THE BLANKET SHALL BE INSTALLED TO MANUFACTURER'S SPECIFICATIONS.
- THE WORK AREA SHALL BE CLEARED AND GRUBBED WITH THE TOP SOIL STRIPPED BEFORE ADDING FILL MATERIAL.

NOTE:
GRADE ALL ISLANDS AND MEDIANS TO DRAIN.

NOTE:
UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PROVIDE LEVEL LANDING PADS AT ALL ENTRANCE/EXITS.

NOTE:
CONTRACTOR TO PROVIDE POSITIVE DRAINAGE ON ENTIRE SITE. GRADING ALL AREAS TO DRAIN.

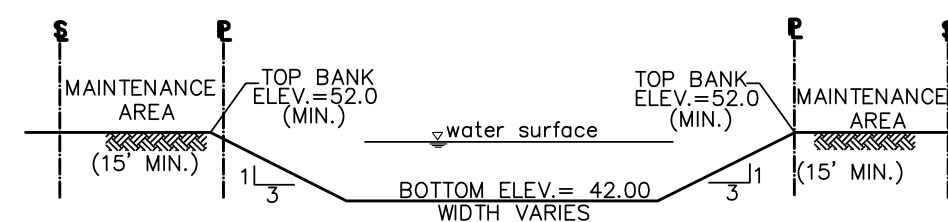


| FROM | TO | LENGTH | SIZE | SLOPE % |
|-------|-------|--------|----------------|---------|
| A | A-1 | 59' | 15" PVC | 0.20 |
| A-1 | A-2 | 82' | 18" PVC | 0.20 |
| A-2 | A-3 | 117' | 12" PVC | 0.20 |
| B | B-1 | 36' | 18" PVC | 0.19 |
| B-1 | B-1-1 | 48' | 12" PVC | 0.20 |
| B-1-1 | B-1-2 | 81' | 12" PVC | 0.20 |
| B-1 | B-2 | 90' | 15" PVC | 0.20 |
| B-2 | B-3 | 116' | 15" PVC | 0.20 |
| B-3 | B-4 | 116' | 12" PVC | 0.20 |
| S | S-1 | 25' | 15" PVC | 14.0 |
| T | T-1 | 25' | 15" PVC | 14.0 |
| U | U-1 | 37' | 15" PVC | 0.20 |
| V | V-1 | 65' | 20"x28" BCCMPA | 0.20 |
| X | X-1 | 62' | 24" RCP | 0.20 |
| Y | Y-1 | 70' | 15" BCCMP | 0.18 |
| Z | Z-1 | 3-60' | 96" BCCMP | - |

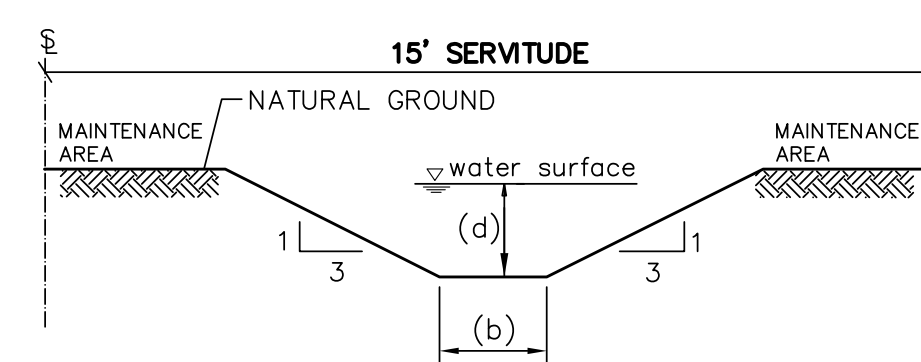
| FROM | TO | Q | b | d | SLOPE % | SIDE SLOPE |
|------|-----|------|---|------|---------|------------|
| U-1 | U-2 | 0.98 | 0 | 0.63 | 0.20 | 3H:1V |
| U-2 | U-3 | 0.84 | 0 | 0.54 | 0.20 | 3H:1V |
| T-1 | T-2 | 0.47 | 0 | 0.49 | 0.20 | 3H:1V |
| S-1 | S-2 | 0.56 | 0 | 0.51 | 0.20 | 3H:1V |
| S-2 | V | 0.28 | 0 | 0.39 | 0.20 | 3H:1V |

| AREA | AREA | Q |
|------|------------|------|
| DA1 | 0.19 ACRES | 0.89 |
| DA2 | 0.20 ACRES | 0.93 |
| DA3 | 0.21 ACRES | 0.98 |
| DA4 | 0.24 ACRES | 1.12 |
| DA5 | 0.26 ACRES | 1.25 |
| DA6 | 0.12 ACRES | 0.75 |
| DA7 | 0.20 ACRES | 1.26 |
| DA8 | 0.18 ACRES | 1.13 |
| DA9 | 0.21 ACRES | 0.98 |
| DA10 | 0.21 ACRES | 0.64 |
| DA11 | 0.09 ACRES | 0.28 |
| DA12 | 0.29 ACRES | 0.56 |
| DA13 | 0.24 ACRES | 0.47 |

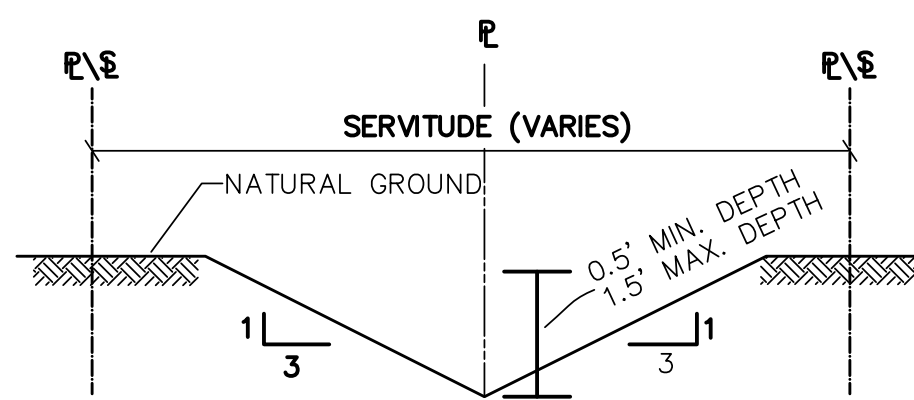
| STRUCTURE | TYPE | TOP | INVERT | INLET TYPE |
|-----------|-------------|-------|--------|------------|
| A-1 | GRATE INLET | 52.50 | 47.12 | CPS 702-20 |
| A-2 | GRATE INLET | 52.50 | 47.28 | CPS 702-20 |
| A-3 | GRATE INLET | 52.50 | 47.51 | CPS 702-20 |
| B-1 | GRATE INLET | 51.75 | 47.07 | CPS 702-20 |
| B-1-1 | GRATE INLET | 51.50 | 47.17 | CPS 702-20 |
| B-1-2 | GRATE INLET | 51.50 | 47.33 | CPS 702-20 |
| B-2 | GRATE INLET | 51.50 | 47.25 | CPS 702-20 |
| B-3 | GRATE INLET | 51.50 | 47.48 | CPS 702-20 |
| B-4 | GRATE INLET | 51.50 | 47.71 | CPS 702-20 |



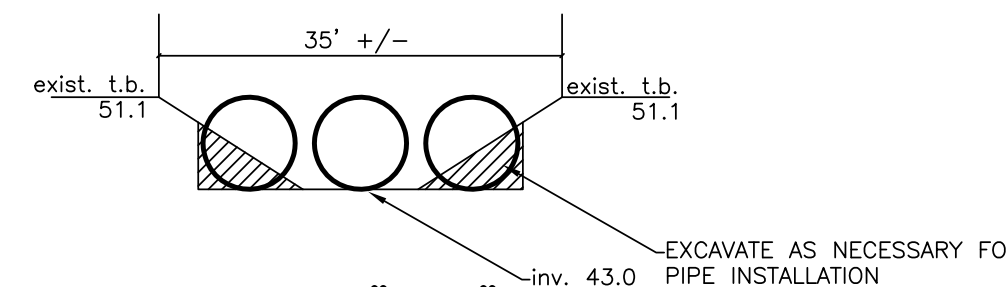
POND SECTION "A-A" N.T.S.



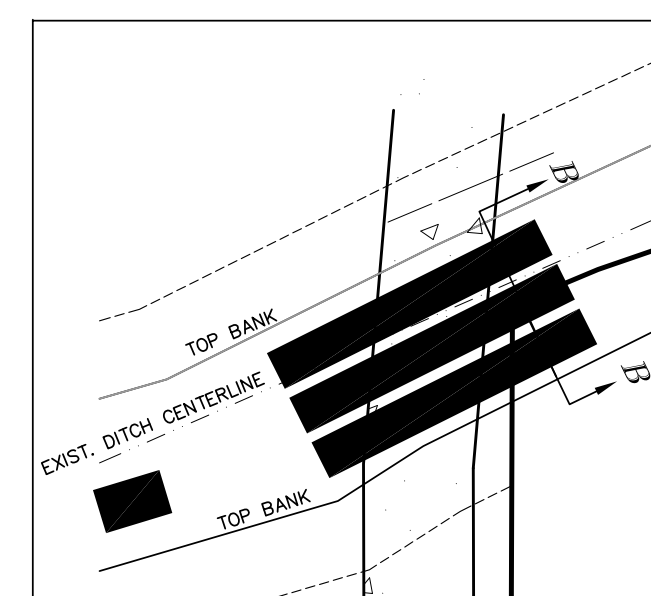
DRAINAGE DITCH SECTION N.T.S.



SWALE DITCH DETAIL N.T.S.



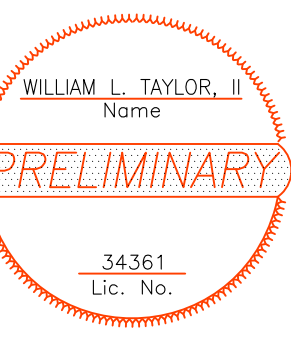
SECTION "B-B" N.T.S.



INSET B N.T.S.

**CYPRESS LANDING
PRELIMINARY PLANS
GRADING/DRAINAGE LAYOUT**

LOCATED IN SECTION 20, T6S-R3E
GREENSBURG LAND DISTRICT
LIVINGSTON PARISH, LOUISIANA
FOR
BRAD MARCOTTE CONSTRUCTION, L.L.C.



McLin Taylor, Inc.
Engineering and Land Surveying
28339 FROST ROAD, LIVINGSTON, LA 70754 (225) 686-1444
X:\LP-18\2180194_LOCKHART ROAD\DWG\CONSTRUCTION PLANS\C4.1_CYPRESS LANDING_GRADING-DRAINAGE LAYOUT.DWG JAN-14-2019 ESPARS



DRAWN BY: ECS
DESIGN BY: WLT
CHECKED BY: WLT
DATE: 11/29/18
JOB NO.: 2180194
SHEET NO.: C4.1

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE SALES, OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.

SEWER SYSTEM NOTES:

- WHERE COVER OVER SEWER MAIN IS LESS THAN 30", USE SCHEDULE 40 PVC SEWER PIPE.
- COVER LESS THAN 24" IS NOT ACCEPTABLE.
- AVOID PLACEMENT OF WYES AND CLEANOUTS IN AREAS OF ROADWAY PAVEMENT OR AREAS CONTINUOUSLY IN USE BY VEHICULAR TRAFFIC.
- DISCHARGE OF WASTEWATER FROM THE DEVELOPMENT WILL REQUIRE A D.E.Q. PERMIT AND MAY REQUIRE A LA. D.O.T.D. PERMIT IF DISCHARGE IS INTO A STATE HIGHWAY DITCH.
- STATE SANITARY CODE REQUIRES HORIZONTAL SPACING BETWEEN WATER AND SEWER TO BE NOT LESS THAN 6 FEET EDGE TO EDGE. VERTICAL SPACING AT CROSSINGS TO BE AT LEAST 18 INCHES CLEAR.
- A NON-CORROSIVE METALLIC WIRE SHALL BE INSTALLED OVER ALL NON-METALLIC PIPES TO FACILITATE THEIR FUTURE LOCATION DETECTION. THE WIRE SHALL BE EITHER OF THE FOLLOWING:
 - STAINLESS STEEL WIRE - SHALL BE 0.040" OR LARGER BARE STAINLESS STEEL WIRE
 - COPPER WIRE - SHALL BE TYPE TW, AWG #12 GAUGE STRANDED COPPER WIRE WITH INSULATION
- SANITARY SEWER MANHOLE TOPS SET BELOW THE BASE FLOOD ELEVATION PROVIDED BY THE LIVINGSTON PARISH PERMIT OFFICE SHALL HAVE WATER TIGHT LIDS.
- POST INSTALLATION TESTS FOR SEWER LINES SHALL BE PERFORMED IN ACCORDANCE WITH:
 - LOW PRESSURE AIR TEST: MUST CONFORM TO ASTM SPECIFICATIONS C828, C924, OR F1417, AS APPLICABLE.
 - MANDREL TEST: MUST CONFORM TO ASTM SPECIFICATIONS D3034 (4"-15"), AND F679 (18"-27"), AS APPLICABLE. MANDREL TEST SHALL BE RAN 30 DAYS AFTER PIPE IS LAYED AND BACKFILLED.
 - POST-CONSTRUCTION SMOKE TEST
 - ALL SEWER FORCE MAINS SHALL BE PRESSURE TESTED WITH WATER TO 100 PSI FOR 4 HOURS.
- ADDITIONAL TESTING INFORMATION - SEWER LINES MUST PASS LAMP, PRESSURE, AND MANDREL TEST. MANHOLES MUST BE BEDDED ALSO. ALL SEAMS AND HOLES MUST BE GROUTED ON INSIDE OF MANHOLE. THEY MUST PASS VACUUM AND VISUAL TEST.

SEWER PIPING CONSTRUCTION MATERIAL:

GRAVITY PIPING SHALL BE PVC SDR-35 MEETING ASTM D-3034 SPECIFICATIONS.

WATER SYSTEM NOTES:

- THE WATER SYSTEM SHALL BE INSTALLED PER WARD 2 WATER SPECIFICATIONS. ALL FITTINGS, JOINTS, VALVES, MATERIALS, ETC. SHALL BE APPROVED BY WARD 2 WATER. CONTRACTOR SHALL CONTACT AND GET FINAL APPROVAL FROM WARD 2 WATER BEFORE BEGINNING WATER MAIN IMPROVEMENTS.
- ALL LOCAL, STATE, AND FEDERAL GUIDELINES SHALL BE FOLLOWED.
- A NON-CORROSIVE METALLIC WIRE SHALL BE INSTALLED OVER ALL NON-METALLIC PIPES TO FACILITATE THEIR FUTURE LOCATION DETECTION. THE WIRE SHALL BE EITHER OF THE FOLLOWING:
 - STAINLESS STEEL WIRE - SHALL BE 0.040" OR LARGER BARE STAINLESS STEEL WIRE
 - COPPER WIRE - SHALL BE TYPE TW, AWG #12 GAUGE STRANDED COPPER WIRE WITH INSULATION
- TESTING SHALL BE IN ACCORDANCE WITH WATER SYSTEM OWNERS REGULATIONS. WATER LINES SHALL PASS PRESSURE AND LEAKAGE TESTING PER THE LATEST AWWA STANDARDS.
- CONTRACTOR SHALL INSTALL SHUT-OFF VALVES AT THE BEGINNING OF THE 2" DOMESTIC WATER LINE.
- WATER METERS SHALL BE INSTALLED BY WARD 2 WATER.
- JOINTS SHALL BE ELASTOMERIC GASKET TYPE, ASTM D3139 WITH CAST IRON MECHANICAL JOINT FITTINGS.
- EACH UNIT SHALL BE PROVIDED WITH A WATER METER. WARD 2 WATER WILL SIZE THE WATER METERS AND MAINS WITHIN THE DEVELOPMENT.
- WATER DISTRIBUTION SYSTEM DISINFECTION METHOD SHALL COMPLY WITH LOUISIANA ADMINISTRATIVE CODE (LAC) TITLE 51, PART XII, §353A. WATER DISTRIBUTION SYSTEM SHALL BE TESTED PER LAC TITLE 51, PART XII, §353C.

GENERAL SITE INFORMATION:

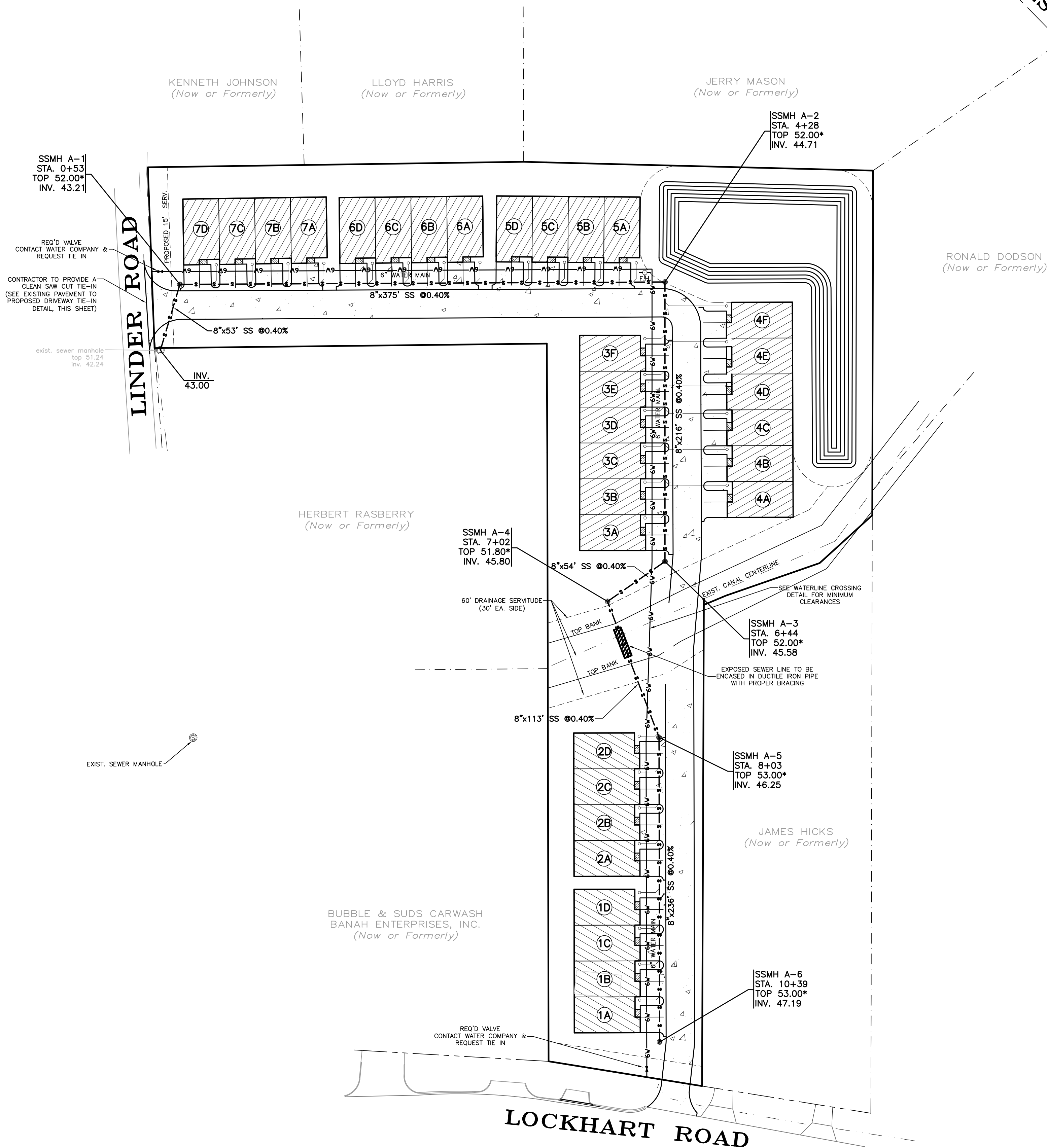
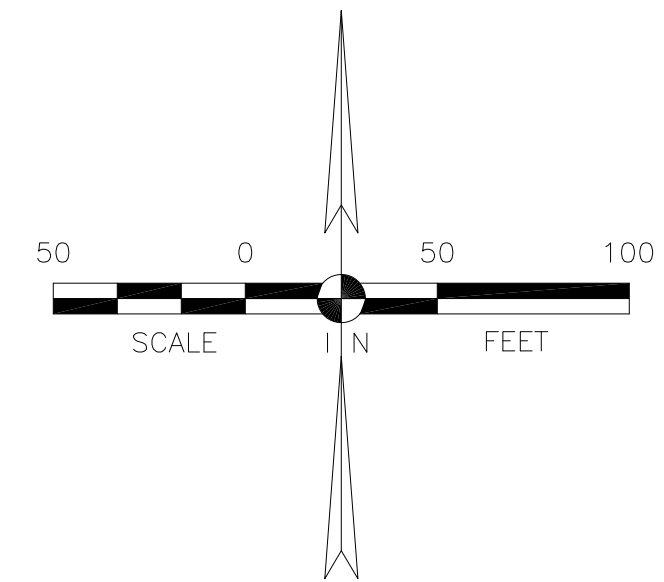
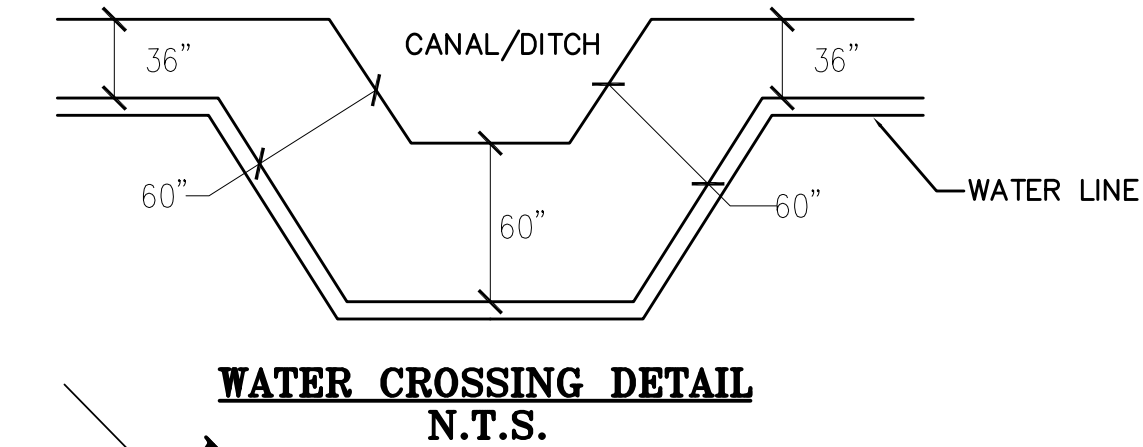
TOTAL AREA: 3.864 ACRES
 TOTAL NO. OF UNITS: 32
 TELEPHONE: COX/AT&T
 WATER DISTRICT: WARD 2 WATER
 ELECTRICITY: ENERGY/DEMCO
 SEWAGE DISPOSAL: COLLECTION SYSTEM TO CONNECT TO SEWER DISTRICT SYSTEM
 GAS: CITY OF DENHAM SPRINGS
 STREETS: PRIVATE DRIVES CONNECTING TO PUBLIC ROADWAY
 SCHOOL DISTRICT: No. 1
 FIRE DISTRICT: No. 5 No. 3
 RECREATION DISTRICT: No. 3
 COUNCIL DISTRICT: No. 3
 GRAVITY DRAINAGE DISTRICT: No. 1

NOTE:

PRIOR TO ANY WORK WITHIN THE LADOTD RIGHT-OF-WAY, AN APPROVED LADOTD DRIVEWAY PERMIT MUST BE GRANTED.

GAS SYSTEM NOTES:

CURRENTLY, ALL UNITS ARE PLANNED TO BE ELECTRIC AND DO NOT REQUIRE GAS SERVICE. IN THE EVENT THIS CHANGES IN THE FUTURE AND GAS LINE ARE INSTALLED AT A FUTURE DATE, ALL GAS LINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF DENHAM SPRINGS GAS DEPARTMENT SPECIFICATIONS. CONTACT CITY OF DENHAM SPRINGS GAS DEPARTMENT BEFORE BEGINNING GAS LINE IMPROVEMENTS.



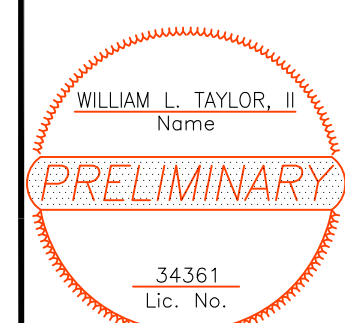
GENERAL NOTES:

- CONTRACTOR IS CAUTIONED TO FOLLOW ALL FEDERAL, STATE, AND LOCAL REGULATORY GUIDELINES, AS WELL AS OSHA STANDARDS IN REGARD TO SHORING AND BRACING OF PIPELINE TRENCHES.
- CONTRACTOR SHALL MAINTAIN A RECORD OF WYE LOCATIONS AND SUBMIT THIS RECORD TO THE ENGINEER UPON COMPLETION OF SEWER LINE INSTALLATION. SERVICE LINES SHALL BE ALIGNED AT 90° TO THE TRUNK LINE OR MAIN IF PRACTICAL.
- THE MINIMUM COVER OF BUILDING CONNECTIONS SHALL BE 3.5 FEET MIN.. SEWER SERVICES SHALL HAVE A MIN. SLOPE OF 0.75% WHERE DEPTH PERMITS, A 2% SLOPE SHALL BE USED.
- WHERE SANITARY SEWER MAIN CROSSES THE DOMESTIC WATER LINE, DUCTILE IRON PIPE SHALL BE USED IN LIEU OF PVC.
- FOLLOW STATE SANITARY CODE IN LOCATING A WATER LINE OFFSET FROM AN EXISTING OR PROPOSED SEWER LINE: 6" EDGE TO EDGE MIN. IN PLAN VIEW; 18" MIN. CLR. VERTICALLY @ CROSSINGS.
- SEWER SYSTEM OWNER IS ADVISED NOT TO RELEASE SANITARY WASTE WATER FROM THE SITE LIMITS WITHOUT A LA. DEQ. DISCHARGE PERMIT.
- THE ENGINEER CERTIFYING TO THE DESIGN HEREON MAY WITHHOLD AS-BUILT CERTIFICATION IF CONSTRUCTION DEVIATES SUBSTANTIALLY FROM THE APPROVE PLAN APPROVED.
- TRENCH BACKFILL MATERIAL SHALL EXCLUDE DELETERIOUS MATERIALS (MATERIALS LACKING COMPATIBILITY, CONSISTENCY OR WITH EXCESS MOISTURE CONTENT OR HAVING THE POTENTIAL TO DAMAGE THE PIPE OR ITS CONNECTIONS).
- PROVIDE A 24"x24"x4" CONCRETE PAD CENTERED AT THE SURFACE LOCATION OF THE CLEANOUT AND SET FLUSH WITH FINISHED GRADE AT THE SHOWN LOCATION.
- CONTRACTOR SHALL COORDINATE WITH CABLE, TELEPHONE, ELECTRIC AND OTHER UTILITY COMPANIES FOR SERVICE AND CONNECTION POINTS TO THE BUILDING.
- CONTRACTOR SHALL COORDINATE CIVIL PLAN W/ARCHITECTURAL PLAN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND ARCHITECT IF ANY CONFLICTS EXIST.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS, INSPECTIONS AND APPROVAL OF THE COMPLETED UTILITY WORK FROM ALL THE APPROVING AUTHORITIES AND EACH UTILITY COMPANY. THIS INCLUDES STATE HEALTH DEPARTMENT AGENCIES AS DIRECTED BY THE WATER AND SEWER UTILITY COMPANIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL CONNECTION FEES INCLUDING TEMPORARY AND PERMANENT CONNECTIONS, DEPOSITS AND OTHER CHARGES ISSUED BY UTILITY COMPANIES FOR UTILITY SERVICE.
- CONTRACTOR SHALL COORDINATE ALL PERMITS, INSPECTIONS AND APPROVALS OF COMPLETED UTILITY WORK BEFORE BACKFILLING AND/OR PAVING OVER ANY OF THE UTILITY WORK.
- UTILITY LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS SHALL BE COORDINATED WITH UTILITY COMPANIES AND DETERMINED IN THE FIELD.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL FEES FOR ANY UTILITY LINE, POLE, PEDESTAL, METER OR UTILITY BOX RELOCATION OR ADJUSTMENT.
- *SSMH TOP ELEVATIONS ARE APPROXIMATE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ACCEPTABLE MANHOLE HEIGHTS.

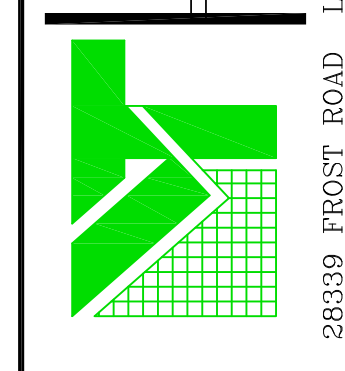
| LEGEND | |
|--------|--|
| | PROPOSED CLEANOUT |
| | PROPOSED 8" SEWER MAIN PVC SDR 35 |
| | PROPOSED 6" DOMESTIC WATER LINE PVC SDR 20 (CC160) |
| | EXIST. POWER POLE |
| | PROPOSED WATER ISOLATION GATE VALVE |
| | FIRE HYDRANT (MUELLER 3-WAY TO BE APPROVED WARD 2 WATER) |
| | 6" SEWER SERVICE LINE, WYES & CLEANOUTS |

**CYPRESS LANDING
 PRELIMINARY PLANS
 UTILITIES LAYOUT**

LOCATED IN SECTION 20, T6S-R3E
 GREENSBURG LAND DISTRICT
 LIVINGSTON PARISH, LOUISIANA
 FOR
BRAD MARCOTTE CONSTRUCTION, L.L.C.



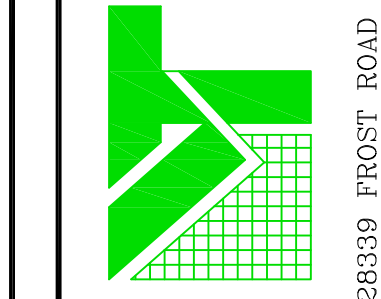
McLin Taylor, Inc.
 Engineering and Land Surveying
 28339 FROST ROAD, LIVINGSTON, LA. 70754 (225)866-1444
 PRELIMINARY UTILITIES LAYOUT.DWG JAN-14-2018 ESP/ARS



| | |
|------------|----------|
| DRAWN BY | ECS |
| DESIGN BY | WLT |
| CHECKED BY | WLT |
| DATE | 11/29/18 |
| REVISIONS | |
| JOB NO. | 2180194 |
| SHEET NO. | C5.1 |

PRELIMINARY - FOR PERMIT PURPOSES ONLY

X:\LP-18\2180194_LOCKHART ROAD\DWG\CONSTRUCTION PLANS\C5.1_CYPRESS LANDING UTILITIES LAYOUT.DWG JAN-14-2018 ESP/ARS



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|-------------------|----------|
| DRAWN BY | ECS |
| DESIGN BY | WLT |
| CHECKED BY | WLT |
| DATE | 11/29/18 |
| REVISIONS | |
| JOB NO. | 2180194 |
| SHEET NO. | C5.2 |

THRUST FOR VARIOUS FITTINGS AND TEST PRESSURES THRUST IN POUNDS

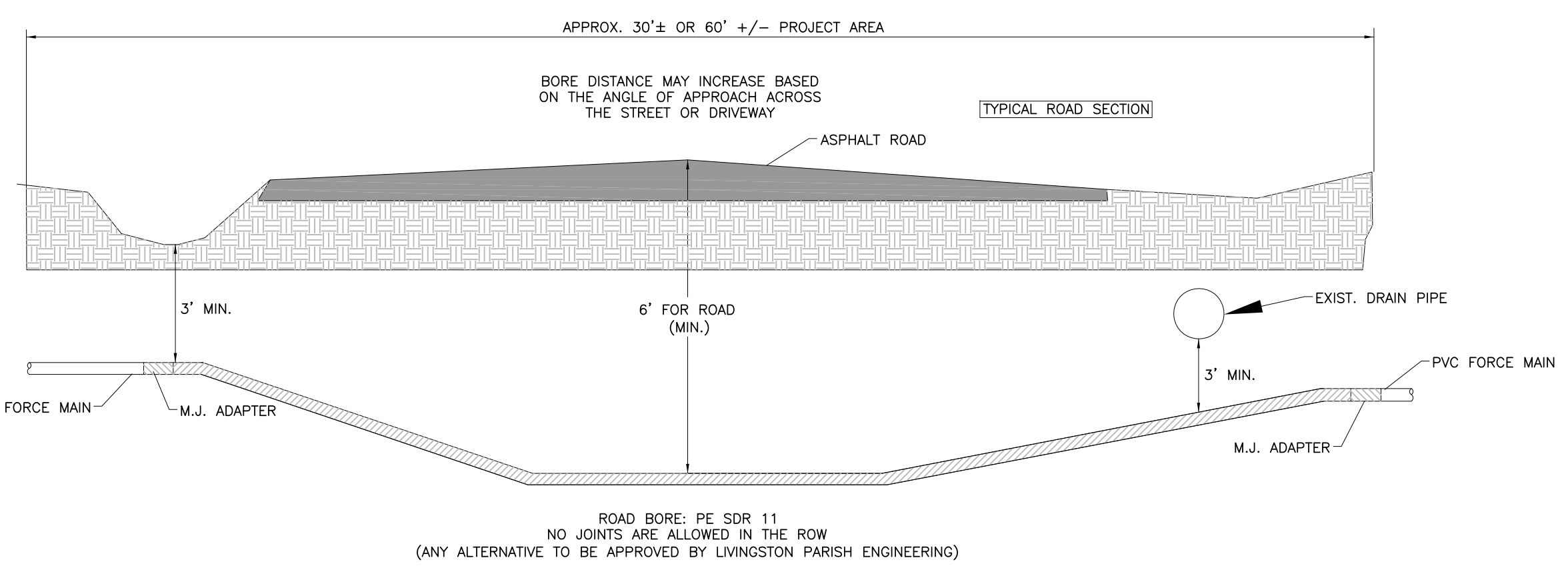
| PIPE SIZE | 90° BENDS | | | TEES AND DEAD ENDS | | | 45° BENDS | | | 22-1/2° BENDS | | | 11-3/4° BENDS | | |
|-----------|--------------|--------------|--------------|--------------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|---------------|--------------|--------------|
| | 225 TEST PR. | 150 TEST PR. | 100 TEST PR. | 225 TEST PR. | 150 TEST PR. | 100 TEST PR. | 225 TEST PR. | 150 TEST PR. | 100 TEST PR. | 225 TEST PR. | 150 TEST PR. | 100 TEST PR. | 225 TEST PR. | 150 TEST PR. | 100 TEST PR. |
| 2" | 1,000 | 700 | 500 | 800 | 500 | 400 | 600 | 400 | 300 | 300 | 200 | 150 | 150 | 100 | 75 |
| 4" | 4,000 | 3,000 | 2,000 | 3,000 | 2,000 | 1,000 | 3,000 | 1,500 | 1,000 | 1,000 | 800 | 500 | 600 | 400 | 300 |
| 6" | 9,000 | 6,000 | 4,000 | 7,000 | 4,000 | 3,000 | 5,000 | 4,000 | 2,000 | 3,000 | 2,000 | 1,000 | 1,500 | 1,000 | 600 |
| 8" | 17,000 | 11,000 | 7,000 | 11,000 | 8,000 | 5,000 | 9,000 | 6,000 | 4,000 | 5,000 | 3,000 | 2,000 | 3,000 | 2,000 | 1,000 |
| 10" | 26,000 | 17,000 | 11,000 | 18,000 | 12,000 | 8,000 | 15,000 | 10,000 | 6,000 | 8,000 | 5,000 | 3,000 | 4,000 | 3,000 | 2,000 |
| 12" | 36,000 | 24,000 | 16,000 | 25,000 | 17,000 | 11,000 | 21,000 | 14,000 | 9,000 | 10,000 | 7,000 | 5,000 | 5,000 | 4,000 | 2,000 |
| 14" | 50,000 | 33,000 | 22,000 | 36,000 | 23,000 | 15,000 | 29,000 | 19,000 | 13,000 | 14,000 | 9,000 | 6,000 | 7,000 | 5,000 | 4,000 |
| 16" | 65,000 | 43,000 | 29,000 | 45,000 | 30,000 | 20,000 | 37,000 | 25,000 | 18,000 | 12,000 | 8,000 | 5,000 | 6,000 | 4,000 | 3,000 |
| 18" | 82,000 | 54,000 | 37,000 | 57,000 | 38,000 | 25,000 | 47,000 | 32,000 | 23,000 | 15,000 | 10,000 | 6,000 | 7,000 | 5,000 | 4,000 |

NOTE: FOR AREA OF THRUST BLOCK IN SQ. FT., DIVIDE APPROPRIATE THRUST BY ALLOWABLE SOIL BEARING. TEST PRESSURES SHALL BE AS INDICATED IN THE SPECIFICATIONS. ON SPECIAL CONDITIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING THRUST BLOCKS OR ANCHORAGE FOR VARIOUS PIPE SIZE AND FITTINGS ACCORDING TO APPROPRIATE SOIL BEARING AND TEST PRESSURE. COST OF THRUST ANCHORAGE SHALL BE INCLUDED IN PRICE BID FOR FITTING OR PIPE.

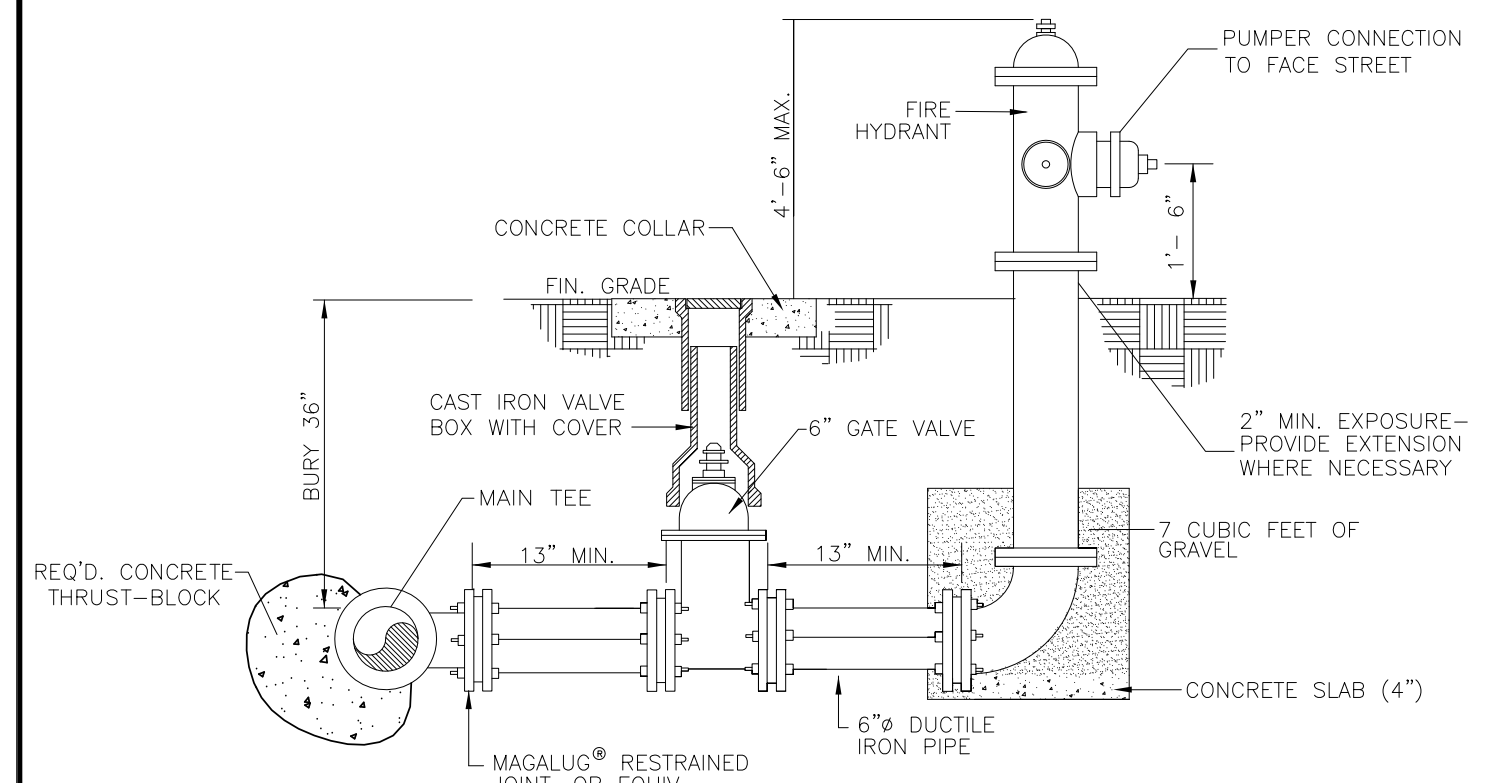
ALLOWABLE SAFE LATERAL BEARING OF SOIL IN P.S.F.

| | |
|------------------------------------|-------|
| MUCK AND PEAT + | 0* |
| SOFT CLAY | 500 |
| SAND | 1,000 |
| SAND AND GRAVEL | 1,500 |
| SAND AND GRAVEL CEMENTED WITH CLAY | 2,000 |

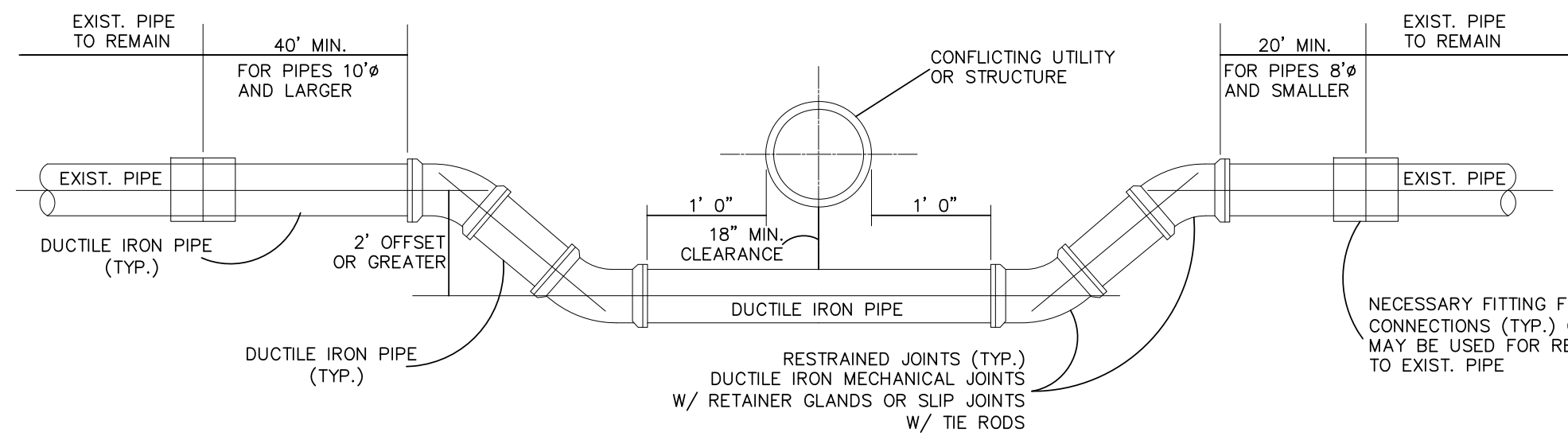
* USE TIE ROD ANCHORS, LOCKING JOINT FITTINGS, FLANGED FITTINGS, TREATED TIMBER PILE WITH CONCRETE BLOCKS



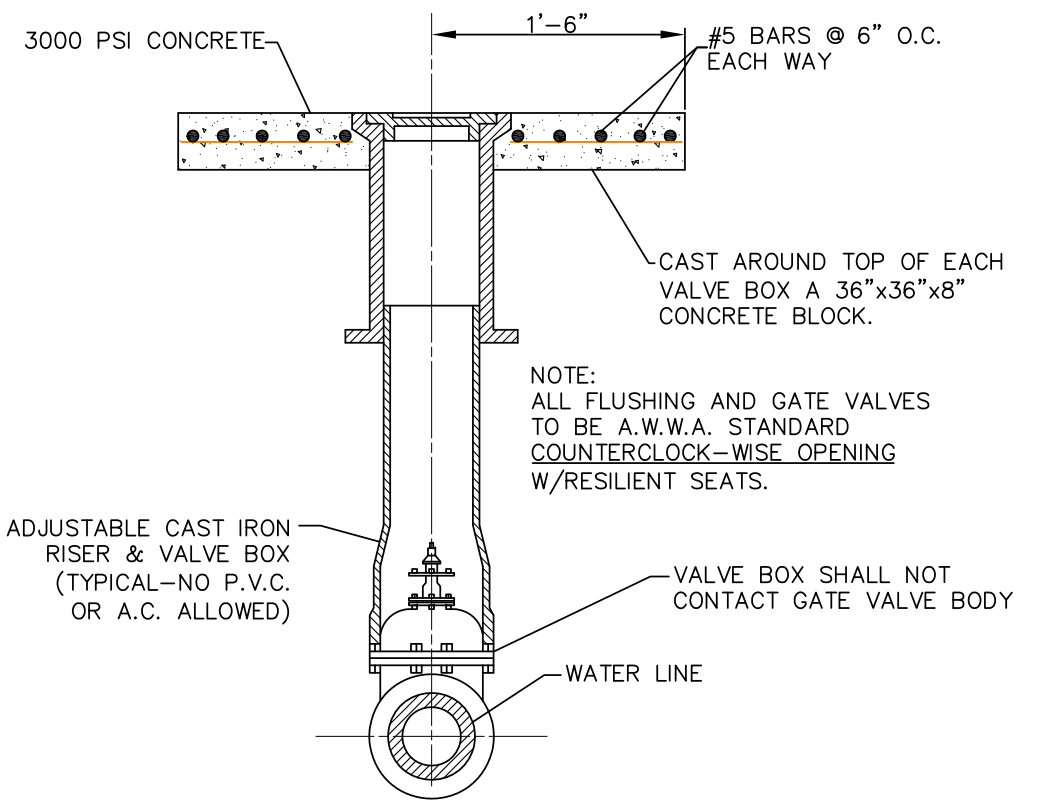
FORCE MAIN TYPICAL ROAD BORE-SECTION
N.T.S.



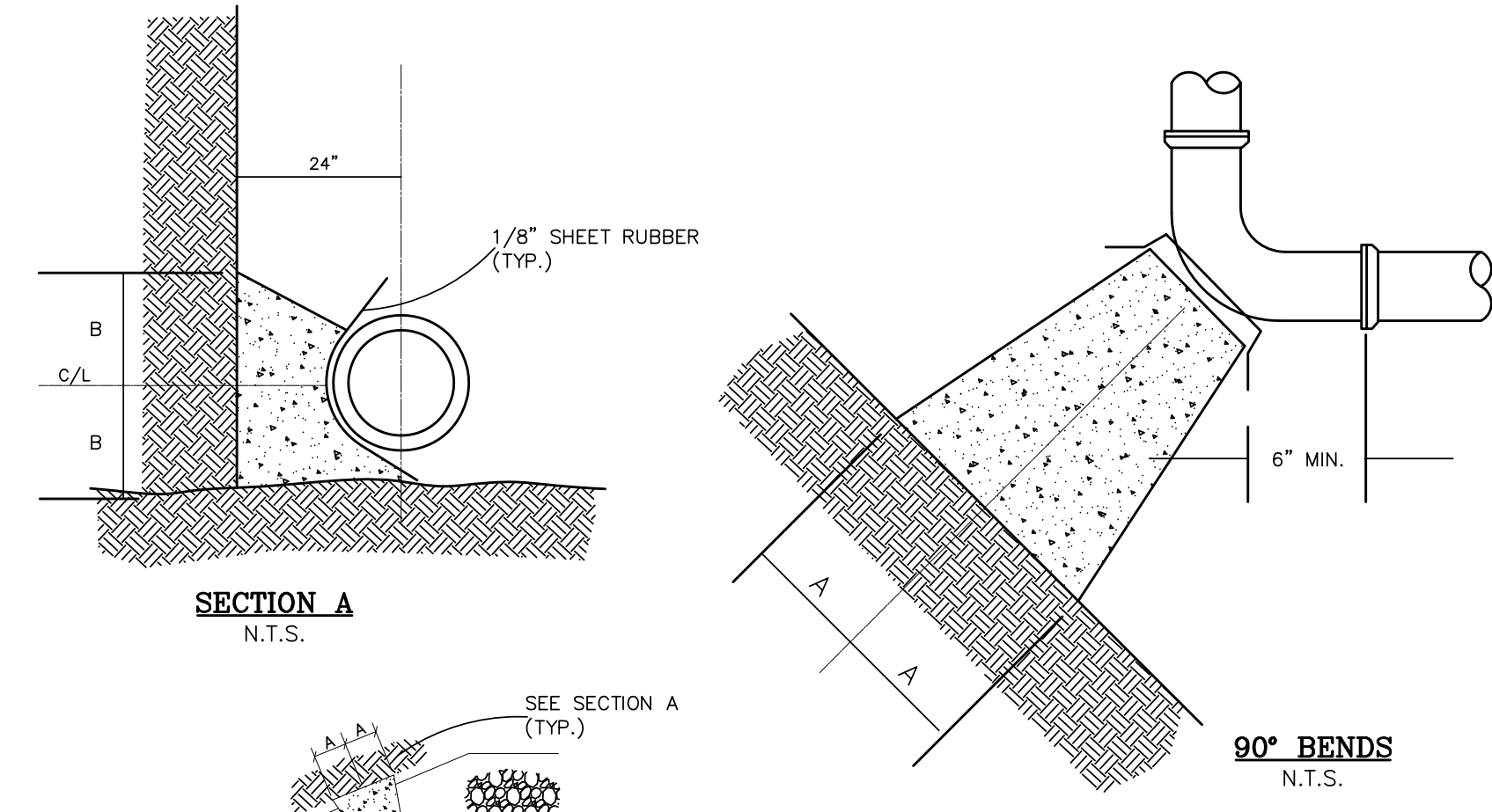
NOTES:
1. ALL JOINTS FROM MAIN TO HYDRANT SHALL BE RESTRAINED.
2. PROTECT BOLTS AND THREADS FROM CONCRETE.



TYPICAL OFFSET DETAILS (VERTICAL OR HORIZONTAL OFFSET) FOR WATER AND SEWER FORCE MAINS
N.T.S.

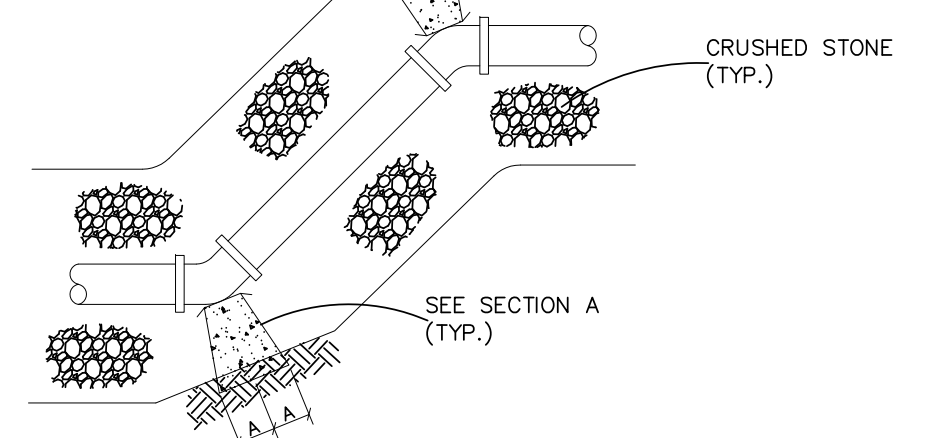


VALVE BOX INSTALLATION DETAIL

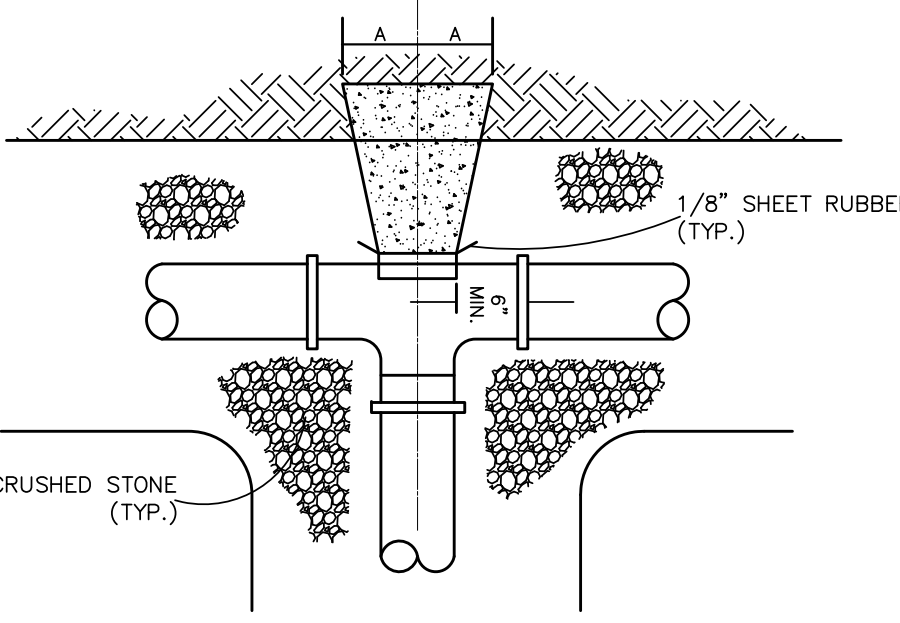


SECTION A
N.T.S.

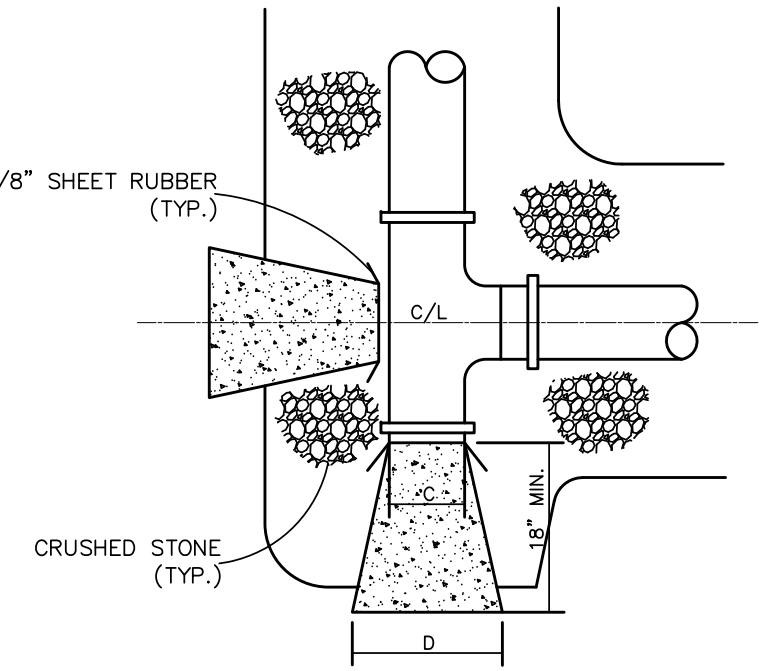
90° BENDS
N.T.S.



THRUST BLOCK DETAILS AT OFFSET
N.T.S.



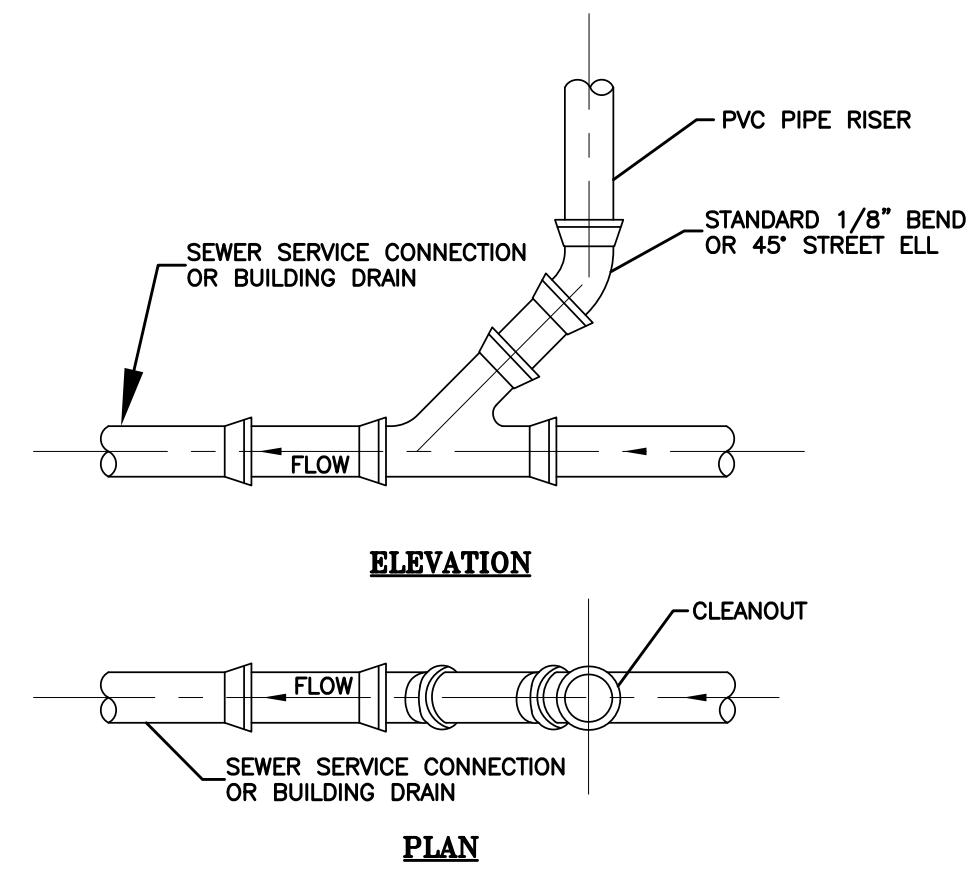
THRUST BLOCK DETAILS AT TEE
N.T.S.



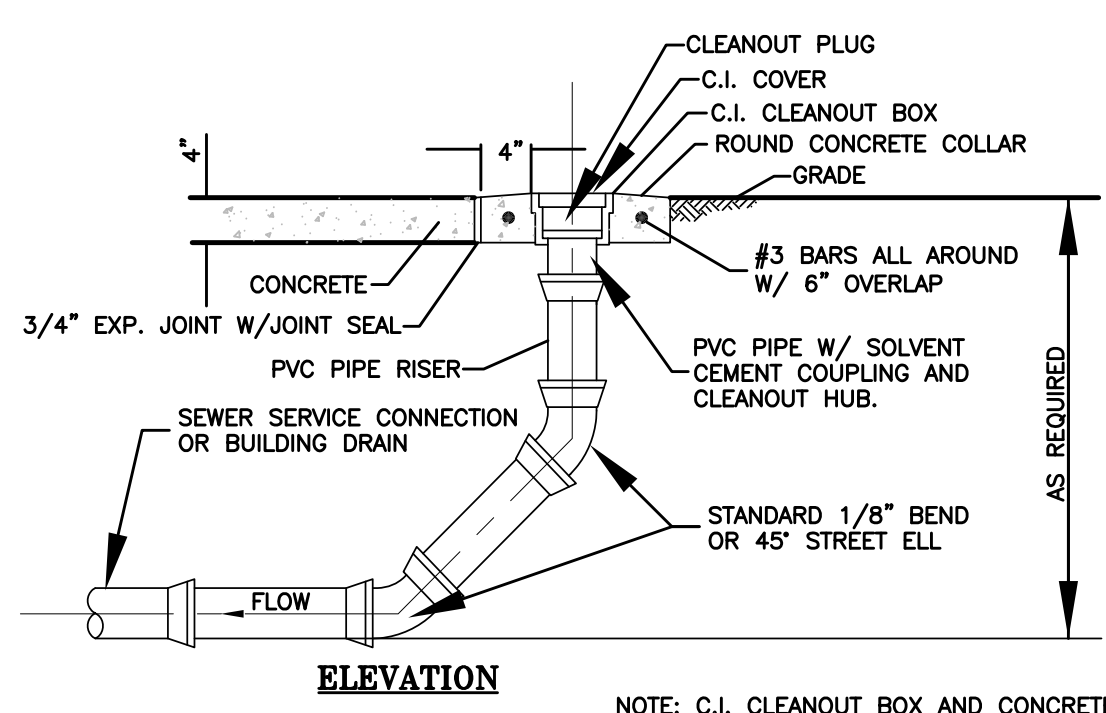
THRUST BLOCK DETAILS AT TEE WITH PLUG
N.T.S.

| SOIL | SIZE | 90° BEND (INCH) | | TEE (INCH) | | PLUG (INCH) | |
|----------|------|-----------------|----|------------|----|-------------|----|
| | | A | B | A | B | C | D |
| 4000 PSF | 6" | 10 | 10 | 8 | 8 | 10 | 15 |
| 2000 PSF | 6" | 18 | 10 | 10 | 12 | 10 | 21 |

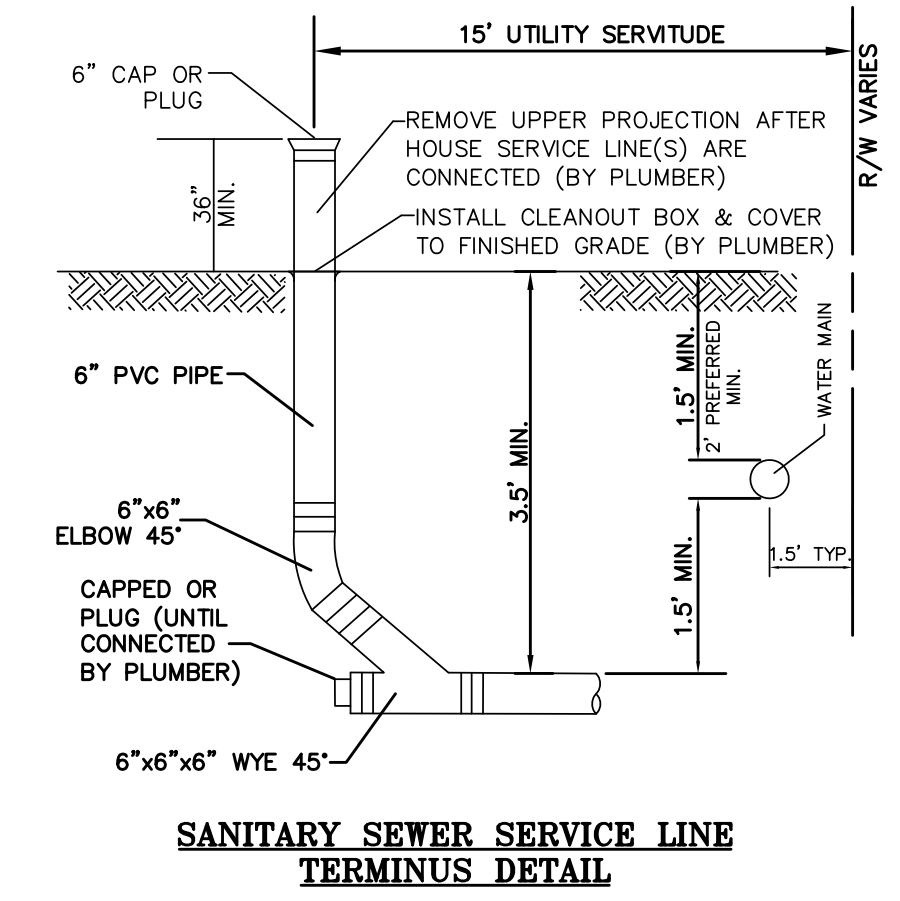
NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF UTILITY COMPANIES AND LOCATION OF VARIOUS UTILITY LINES AND ANY DAMAGE THERETO. NO PERSON SHALL EXCAVATE OR DEMOLISH WITHOUT FIRST ASCERTAINING THE LOCATION OF UNDERGROUND UTILITIES BY SERVING TELEPHONING NOTICE TO LOUISIANA ONE CALL (FORMERLY DOTTIE) IN ORDER TO SERVE NOTICE OF EXCAVATION, THIS PROGRAM CAN BE REACHED BY CALLING 1-800-272-3020.



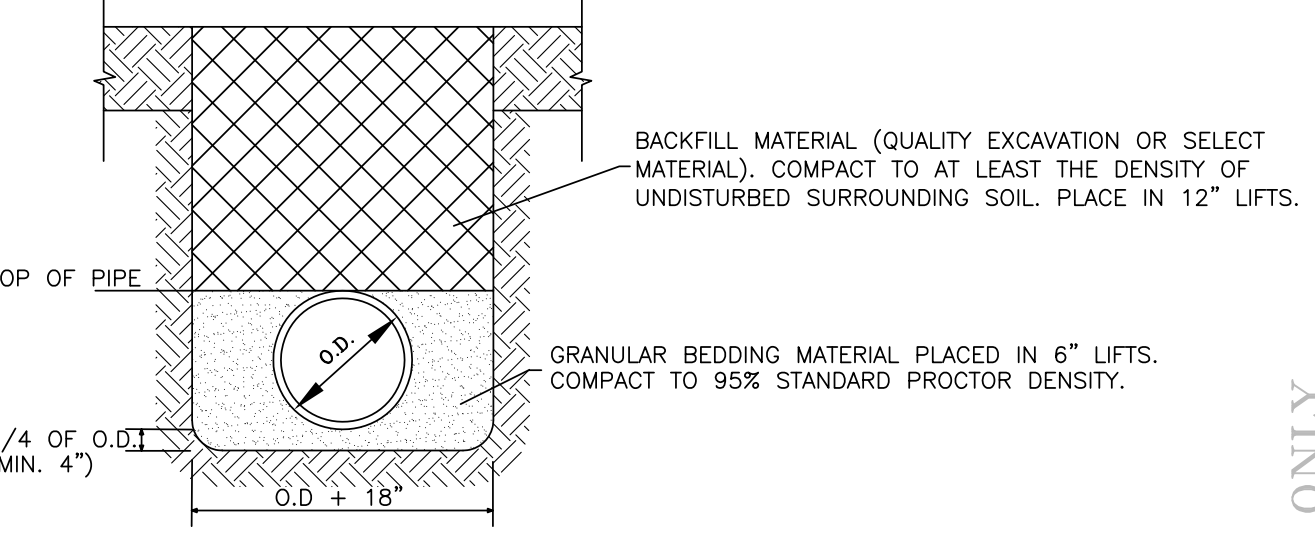
IN-LINE CLEANOUT
N.T.S.



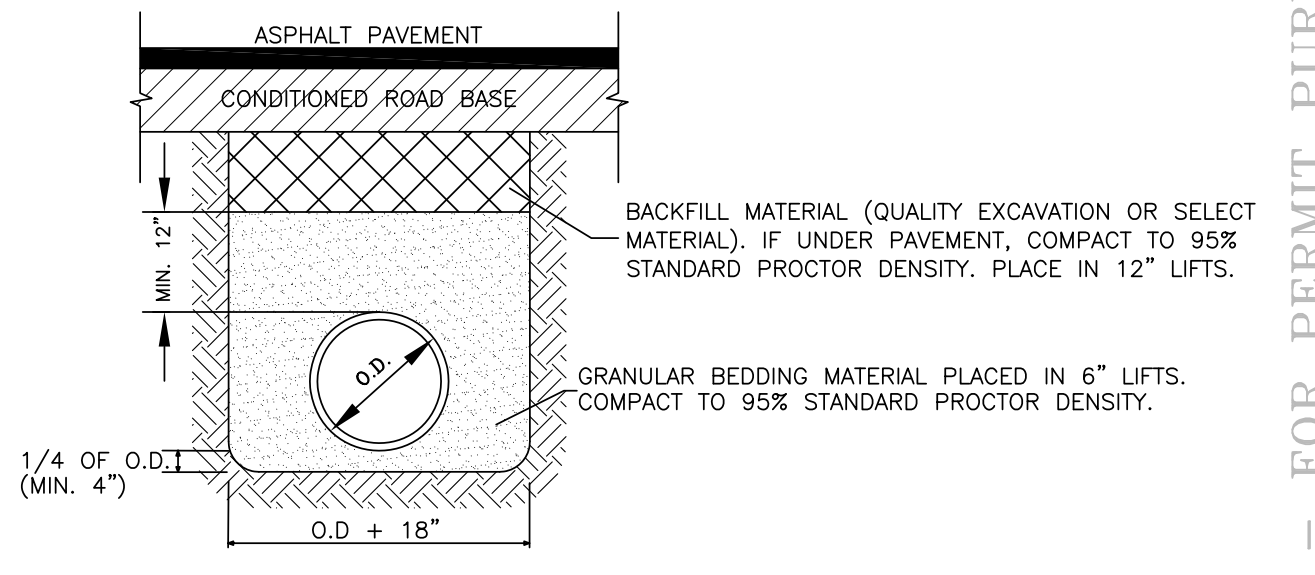
CLEANOUT AT WYE
N.T.S.



SANITARY SEWER SERVICE LINE TERMINUS DETAIL
(BY DEVELOPER EXCEPT BY OTHERS-SUCH AS THE HOME BUILDER'S PLUMBER)



FLEXIBLE PIPE BEDDING DETAIL (OUTSIDE OF ROADWAY)



FLEXIBLE PIPE BEDDING DETAIL (UNDER OR WITHIN 5' OF PAVEMENT)

SEE SHEET C5.1 FOR ADDITIONAL
DETAILS & NOTES

STORM WATER POLLUTION PREVENTION NOTES:

TO ENSURE EROSION CONTROL STRUCTURES WORK PROPERLY, IT IS IMPERATIVE THE SEDIMENT BE REMOVED. THEREFORE "INSPECTION" AND "MAINTENANCE" OF STRUCTURES IS TO BE PERFORMED ON A REGULAR BASIS.

DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT STRUCTURAL COMPONENTS OF EROSION CONTROL STRUCTURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE STRUCTURES AT THE CONTRACTOR'S OWN EXPENSE.

CONTRACTOR SHALL ENSURE THAT ALL DRAINAGE STRUCTURES, FLUMES, PIPES, ETC.... ARE CLEANED OUT AND WORKING PROPERLY AT THE TIME OF ACCEPTANCE.

AGGREGATE SURFACES SHALL MEET LADOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, SECTION 1003.01 (D) STONE.

UPON COMPLETE REMOVAL OF EROSION CONTROL STRUCTURES, THE AREA WHERE THEY WERE CONSTRUCTED IS TO BE SEEDED AND MULCHED.

STOCKPILED TOPSOIL OR FILL MATERIAL IS TO BE TREATED SO THE SEDIMENT RUNOFF WILL NOT CONTAMINATE SURROUNDING AREA OR ENTER NEARBY DRAINAGE STRUCTURES.

WATER IS NOT TO BE PUMPED DIRECTLY INTO EXIST. DRAINAGE STRUCTURES, BUT IS TO BE PUMPED INTO SEDIMENT TRAPS ONLY.

EXCAVATED AREAS WILL BE PROMPTLY STABILIZED AGAINST EROSION USING TEMPORARY SEEDING AND MULCH, HYDROMULCH OR RE-VEGETATIVE MATTING. SILTATION MEASURES SHALL BE IMPLEMENTED PROMPTLY TO REDUCE SEDIMENT IN RUNOFF FROM CONSTRUCTION INTO STREAMS OR DRAINAGE DITCHES BY THE USE OF EROSION CONTROL STRUCTURES.

SECONDARY CONTAINMENT OF HAZARDOUS MATERIALS USED BY THE CONTRACTOR (FUEL, GREASE, ETC...) SHALL BE IN COMPLIANCE WITH REGULATORY AGENCIES AS REQUIRED.

STRAW BALES SHALL BE PLACED IN ALL DRAINAGE WAYS TO PREVENT SEDIMENT FROM LEAVING SITE.

ABOVE GROUND SEDIMENT TOPS SHALL BE PLACED AT ALL INLETS WITH THE POTENTIAL OF COLLECTING SEDIMENTS.

POSITIVE SITE SURFACE DRAINAGE SHALL BE PROVIDED TO REDUCE INFILTRATION OF SURFACE WATER AROUND THE PERIMETER OF THE BUILDING AND BENEATH FLOOR SLABS.

ALL WORK SHALL COMPLY WITH LADOTD STANDARD PLANS EC-01, TEMPORARY EROSION CONTROL DETAILS OR DETAILS SHOWN, WHICHEVER IS THE MOST STRINGENT.

ALL EROSION CONTROL STRUCTURES ARE TO BE PROVIDED AND INSTALLED BY THE SITE CONTRACTOR. THE SWPPP WILL BE PROVIDED AND MAINTAINED BY THE GENERAL CONTRACTOR.

LIMESTONE WASHOUT DRIVES SHALL CONSIST OF 8" 610 LIMESTONE EXTENDING FROM 50' BACK TO THE EXISTING CURB AND 1' BEYOND THE FINISHED WIDTH.

STABILIZED CONSTRUCTION ENTRANCE

STONE SIZE: USE MSHA SIZE NO. 2 (2 1/2" TO 1") OR AASHTO DESIGNATION M43, SIZE NO. 2 (2 1/2" TO 1 1/2"). USE CRUSHED STONE.

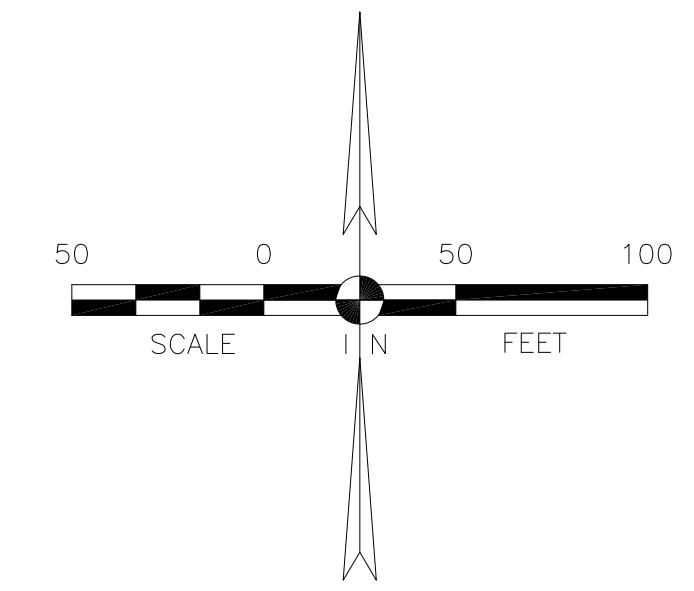
LENGTH: AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.

WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS, OR 12' WHICHEVER IS GREATER.

WASHING: WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ON TO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.

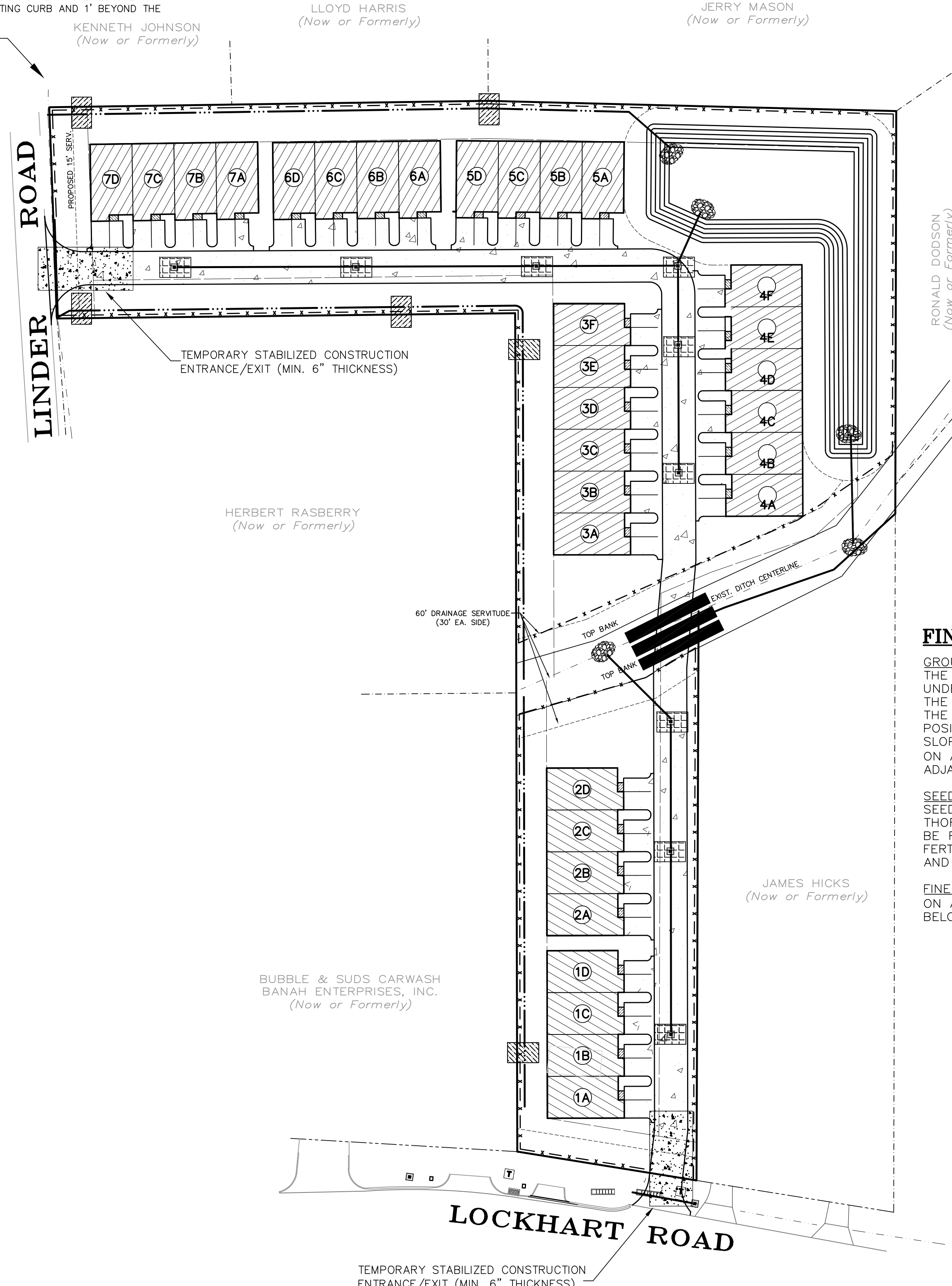
MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ON TO PUBLIC RIGHT OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON TO PUBLIC RIGHTS OF WAY MUST BE IMMEDIATELY REMOVED.

CONTRACTOR TO INSTALL TEMPORARY HOSE BIB AT CONSTRUCTION ENTRANCE TO WASH EQUIPMENT.



EROSION CONTROL NOTES:

- 1.) SEDIMENT AND EROSION CONTROL DEVICES AND STORM DRAINAGE STRUCTURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
- 2.) CONTRACTOR SHALL MAINTAIN EROSION CONTROL DEVICES DURING THE ENTIRE CONSTRUCTION PERIOD WHICH ARE NOT TO BE REMOVED UNTIL COMPLETION OF THE PROJECT.
- 3.) ADDITIONAL DEVICES MAY BE REQUIRED AS DEEMED NECESSARY BY GOVERNING AUTHORITIES.
- 4.) SILT FENCES SHALL BE CLEANED OR REPLACED WHEN SILT BUILDS UP TO 1" OF THE TOP OF THE FENCE.
- 5.) EROSION CONTROL MEASURES ARE TO BE INSPECTED WEEKLY AND AFTER EACH RAINFALL AND REPAIRED AS NECESSARY.
- 6.) ALL GRADED AREAS SHALL BE STABILIZED WITH A PERMANENT FAST GROWING COVER AND/OR MULCH UPON COMPLETION OF GRADING OPERATIONS. COMPLETION OF GRADING OPERATIONS DOES NOT MEAN AT THE END OF THE PROJECT. AS SOON AS FINAL GRADES ARE ESTABLISHED IN AN UNPAVED AREA, THE CONTRACTOR SHALL STABILIZE WITH A TEMPORARY GRASS OR PERMANENT SOD. IF A TEMPORARY GRASS IS APPLIED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO APPLY A PERMANENT SEED OR SOD AT THE PROPER TIME OF YEAR.
- 7.) FILL SLOPES SHOULD BE PLANTED AS SOON AS AN AREA OF THE SITE IS BROUGHT TO FINAL GRADE.
- 8.) THE CONTRACTOR SHALL SCHEDULE GRADING SEQUENCE TO ENSURE THAT THE LEAST AMOUNT OF AREA POSSIBLE, AT ANY ONE TIME, IS DISTURBED WITHOUT PERMANENT STABILIZATION.
- 9.) CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION ENTRANCE PRIOR TO EARTHWORK OPERATIONS.
- 10.) CONTRACTOR SHALL MAINTAIN SILT FENCES FOR THE DURATION OF THE PROJECT UNTIL ACCEPTED BY THE OWNER AT NO EXPENSE TO OWNER.
- 11.) CONTRACTOR SHALL INSPECT ON A DAILY BASIS FOR NEEDED REMOVAL OF ANY ACCUMULATED SILTS, DEBRIS, OR REPAIR OF DAMAGED SILT FENCE AT NO ADDITIONAL EXPENSE TO OWNER.
- 12.) PRIOR TO CONSTRUCTION, THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN HEREON SHALL BE IN PLACE. CLEARING AND GRUBBING OPERATIONS WILL BE ENGAGED IN ONLY AS NECESSARY TO ALLOW THE PLACEMENT OF EROSION CONTROL AND SEDIMENT CONTROL MEASURES AS SHOWN HEREON UNTIL ALL SUCH MEASURES ARE IN PLACE.
- 13.) LAND DISTURBING ACTIVITIES WILL BE KEPT TO A MINIMUM AND WILL NOT EXTEND BEYOND THE LIMITS SHOWN.
- 14.) SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSPECTED ON A DAILY BASIS AND WILL BE REPAIRED, ADJUSTED AND MAINTAINED AS NEEDED OR REQUIRED BY GOVERNING AGENCIES AT NO ADDITIONAL EXPENSE TO THE OWNER. CONTRACTOR TO PROVIDE EROSION AND SEDIMENT CONTROL FOR THE DURATION OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS ARE STABILIZED.
- 15.) ALL EROSION CONTROL MEASURES (EXCLUDING RIP-RAP) ARE TEMPORARY DEVICES. THESE TEMPORARY DEVICES SHALL BE REMOVED PRIOR TO COMPLETION OF CONSTRUCTION, ONCE STABILIZATION OF ALL AREAS ARE COMPLETE.
- 16.) EROSION CONTROL DEVICES SHOWN ARE THE MINIMUM REQUIRED. CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING ANY AND ALL EROSION CONTROL TECHNIQUES REQUIRED TO PREVENT SEDIMENT FROM LEAVING SITE.
- 17.) ALL PROPOSED DITCHES & CHANNELS SHALL BE STABILIZED BEFORE, DURING, AND AFTER THE CONSTRUCTION PROCESS.
- 18.) TO PREVENT DUST OR SEDIMENT FROM BLOWING FROM SITE, DISTURBED AREAS SHALL BE SPRINKLED WITH WATER UNTIL SURFACE IS MOIST. REPEAT AS OFTEN AS NEEDED TO MAINTAIN MOISTURE.
- 19.) THE SOIL MUST BE STABILIZED WITHIN 5 DAYS OF CLEARING OR INACTIVITY OF CONSTRUCTION.
- 20.) CONTRACTOR SHALL PROVIDE TO THE PROJECT ENGINEER, THE PARISH, AND THE REVIEW ENGINEER 30 DAYS PRIOR TO COMPLETION OF CONSTRUCTION, THE SEEDING MIXTURES AND RATES, TYPES OF SOD, METHOD OF SEEDBED PREPARATION, EXPECTED SEEDING DATES, & TYPE AND RATE OF LIME AND FERTILIZER CONTROL MEASURES.
- 21.) CONTRACTOR SHALL PROVIDE TO THE PROJECT ENGINEER, THE PARISH, AND THE REVIEW ENGINEER A SEQUENCE OF CONSTRUCTION EVENTS (INCLUDING EXPECTED DATE OF STRIPPING AND CLEARING; ROUGH GRADING; INSTALLATION OF TEMPORARY EROSION AND SEDIMENT MEASURES; DURATION OF EXPOSURE OF CLEARED AREAS AND ESTIMATED DATE OF ESTABLISHMENT OF PERMANENT VEGETATION IS ALSO REQUIRED).
- 22.) CONTRACTOR SHALL CONTACT LIVINGSTON PARISH DPW FORTY EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION.
- 23.) GRADING, EROSION CONTROL PRACTICES, SEDIMENT CONTROL PRACTICES, AND WATERWAY CROSSINGS SHALL MEET THE DESIGN CRITERIA SET FORTH IN THE MOST RECENT VERSION OF LIVINGSTON PARISH "EROSION AND SEDIMENT CONTROL MANUAL", AND SHALL BE ADEQUATE TO PREVENT TRANSPORTATION OF SEDIMENT FROM THE SITE TO THE SATISFACTION OF THE LIVINGSTON PARISH PLANNING DIRECTOR AND/OR THE REVIEW ENGINEER.
- 24.) OUTFALL DITCH SIDE SLOPES SHALL BE STABILIZED BY FERTILIZING AND SEEDING, AS WELL AS BY EROSION HAY BLANKETS INSTALLED PER THE MANUFACTURER AND AS APPROVED BY THE REVIEW ENGINEER AND PLANNING DIRECTOR.



SEQUENCE OF CONSTRUCTION

EXPECTED DATES:

| | |
|---|------------|
| STRIPPING AND CLEARING..... | 11-01-2018 |
| ROUGH GRADING..... | 11-15-2018 |
| INSTALLATION OF TEMPORARY EROSION MEASURES..... | 11-15-2018 |
| CONSTRUCTION OF UTILITIES..... | 12-01-2018 |
| CONSTRUCTION OF INFRASTRUCTURE AND BUILDINGS..... | 03-01-2019 |
| FINAL GRADING..... | 09-01-2019 |

THESE DATES ARE NOT FINAL, AND MAY CHANGE THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL SUBMIT A MONTHLY PROGRESS REPORT WITH AN UPDATED SCHEDULE. THE SCHEDULE SHALL INCLUDE THE DATES ABOVE.

*TBD- DATES TO BE DETERMINED BY CONTRACTORS CONSTRUCTION SCHEDULE

FINE GRADING NOTES:

GROUND SURFACE:
THE GENERAL CONTRACTOR SHALL REMOVE FOREIGN MATERIALS, STONES, WASTE MATERIALS, WEEDS, AND UNDESIRABLE PLANTS AND THEIR ROOTS. THE GENERAL CONTRACTOR SHALL ALSO REMOVE ANY CONTAMINATED SOIL. THE GENERAL CONTRACTOR SHALL GRADE TO ELIMINATE UNEVEN AREAS, SOFT OR LOW SPOTS, AND TO ENSURE POSITIVE DRAINAGE; MAINTAIN LINES, LEVELS, PROFILES AND CONTOURS; MAKE CHANGES IN GRADE GRADUAL; BLEND SLOPES INTO LEVEL AREAS.
ON ALL SMOOTH SURFACES TO BE SEEDED, SOIL SURFACES SHALL BE THREE-QUARTERS INCH (3/4") BELOW ADJACENT PAVEMENT AREAS AFTER SETTLING.

SEEDBED:
SEEDBEDS SHALL BE PREPARED BY DISKING, HARROWING, OR OTHER APPROVED METHODS. SOIL SHALL BE THOROUGHLY PULVERIZED TO A MINIMUM DEPTH OF 3 INCHES AND LEVELED AS DIRECTED. HARDPAN AREAS SHALL BE ROTOTILLED TO ENSURE THAT SOIL IS IN A CONDITION TO RECEIVE AND SPROUT SEED. ANY REQUIRED FERTILIZER OR AGRICULTURAL LIME IS TO BE INCORPORATED AT THIS TIME. SLOPE SHALL BE SMOOTHED TO GRADE AND ROLLED PRIOR TO SEEDING.

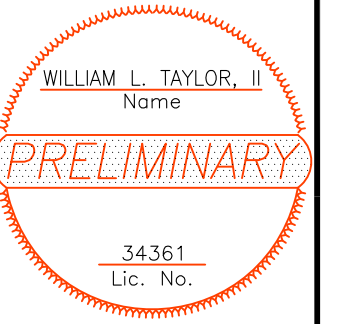
FINE GRADING FOR SOD AREAS:
ON ALL SMOOTH SURFACES TO RECEIVE SOD, SOIL SURFACES SHALL BE ONE & ONE-HALF INCHES (1-1 1/2") BELOW ADJACENT PAVEMENT AREAS AFTER SETTLING.

LEGEND:

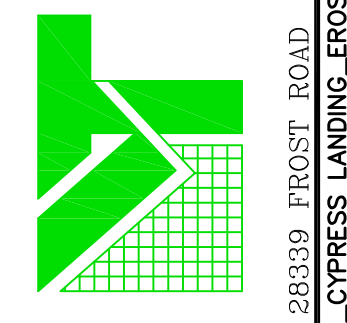
| | | | |
|--|--|--|---|
| | STORM DRAIN INLET PROTECTION SEE SHEET 27 FOR DETAILS | | PROPOSED DITCH |
| | REQ'D. RIP-RAP | | PROPOSED SILT FENCE SEE EC-01 FOR DETAILS |
| | TEMPORARY STABILIZED CONSTRUCTION ENTRANCE/EXIT (MIN. 6" THICKNESS) | | PLACEMENT OF HAY BALES SEE EC-01 FOR DETAILS |

**CYPRESS LANDING
PRELIMINARY PLANS
EROSION CONTROL PLAN**

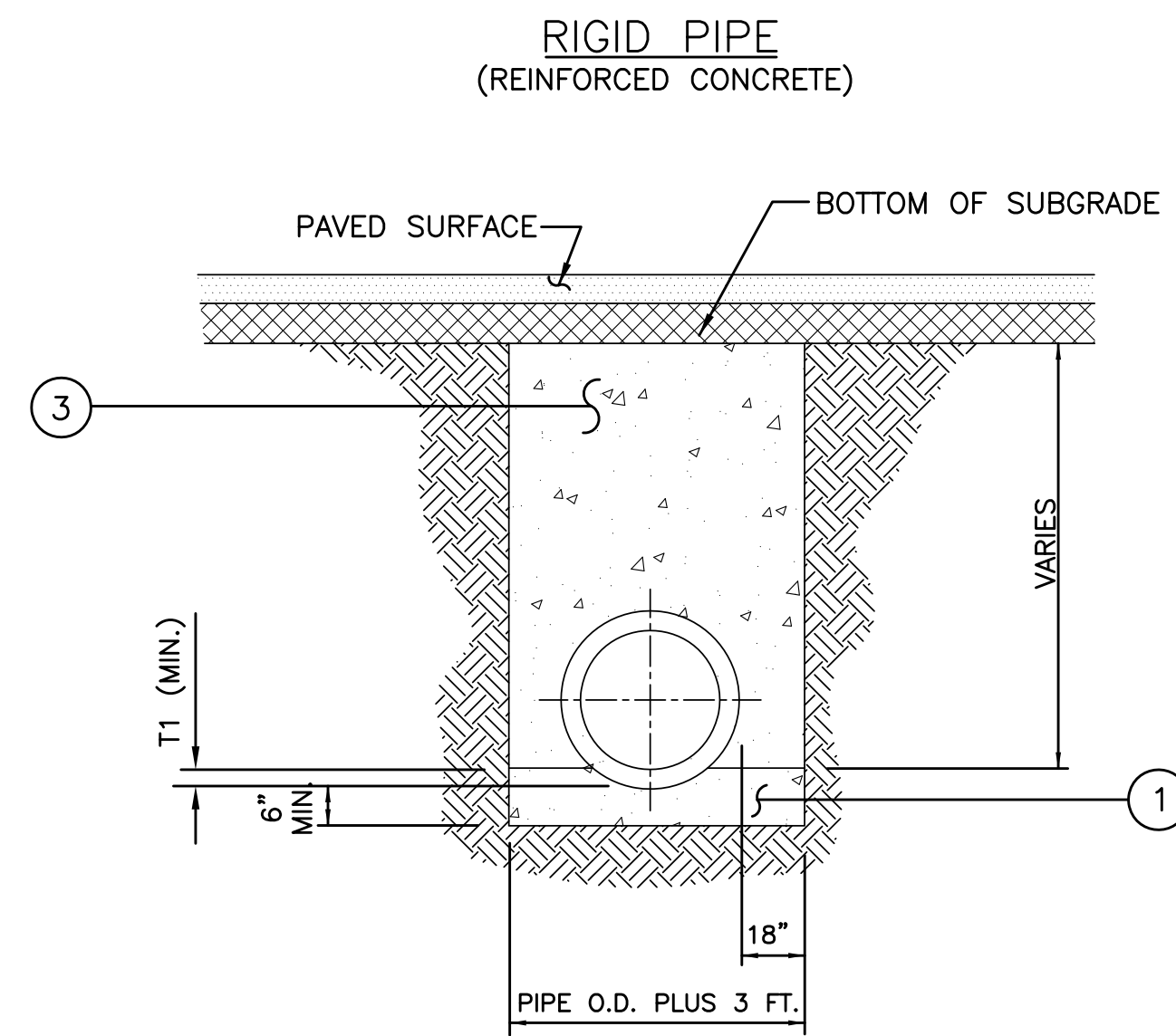
LOCATED IN SECTION 20, T6S-R3E
GREENSBURG LAND DISTRICT
LIVINGSTON PARISH, LOUISIANA
FOR
BRAD MARCOTTE CONSTRUCTION, L.L.C.



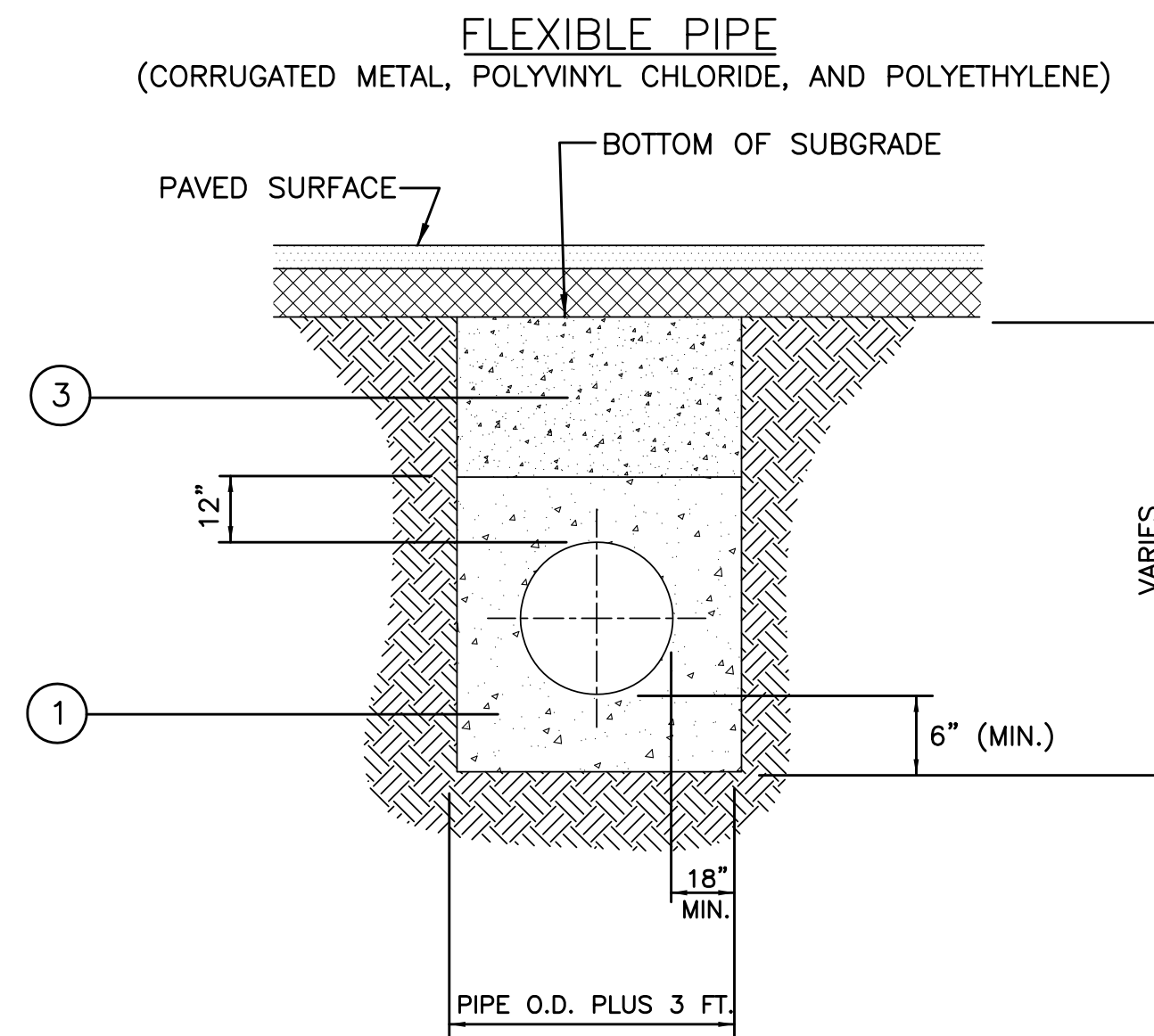
McLin Taylor, Inc.
Engineering and Land Surveying
28339 FROST ROAD, LIVINGSTON, LA. 70754 (225)666-1444
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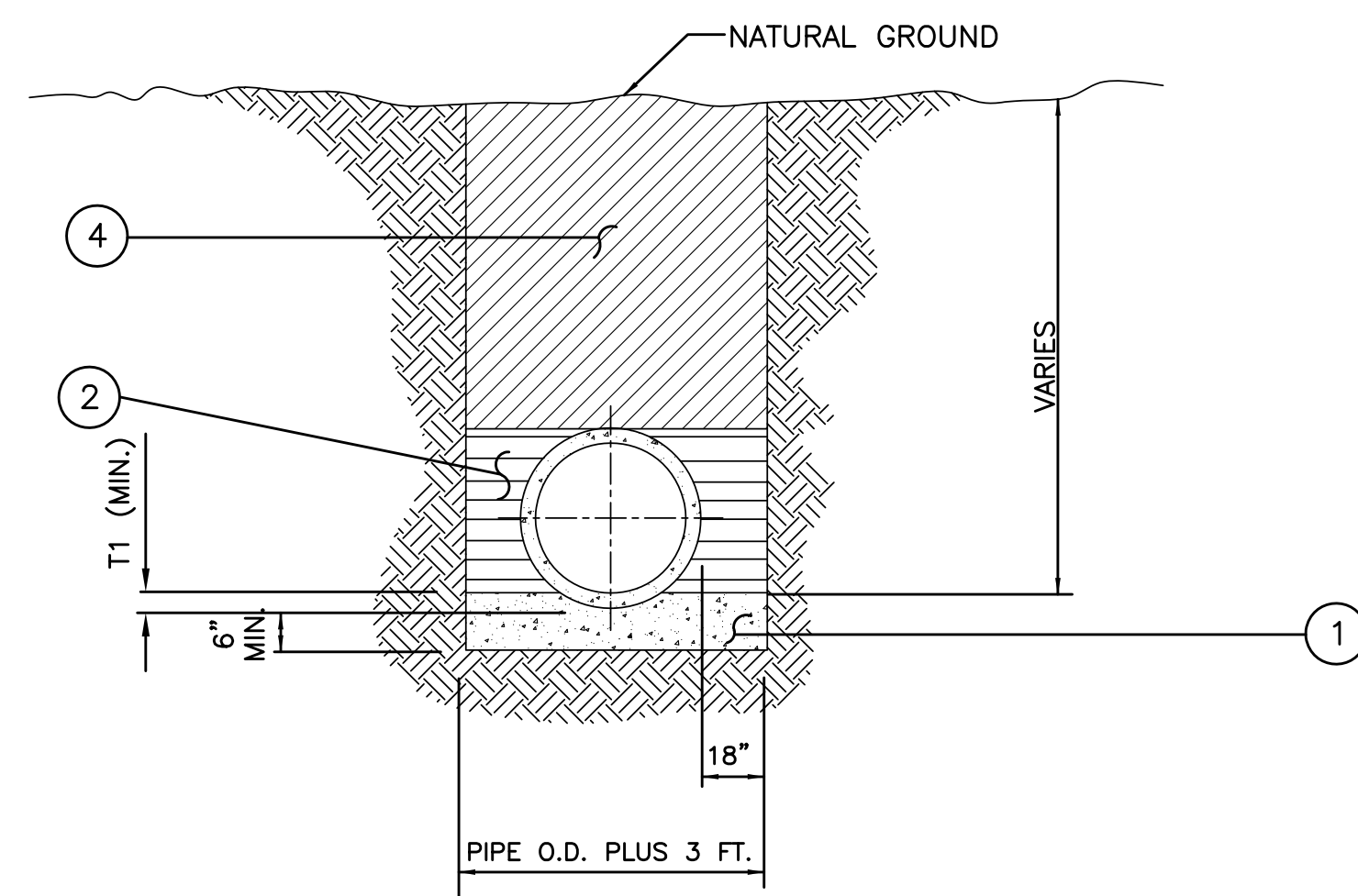
| | |
|------------|----------|
| DRAWN BY | EGS |
| DESIGN BY | WLT |
| CHECKED BY | WLT |
| DATE | 11/29/18 |
| REVISIONS | |
| JOB NO. | 2180194 |
| SHEET NO. | C6.1 |



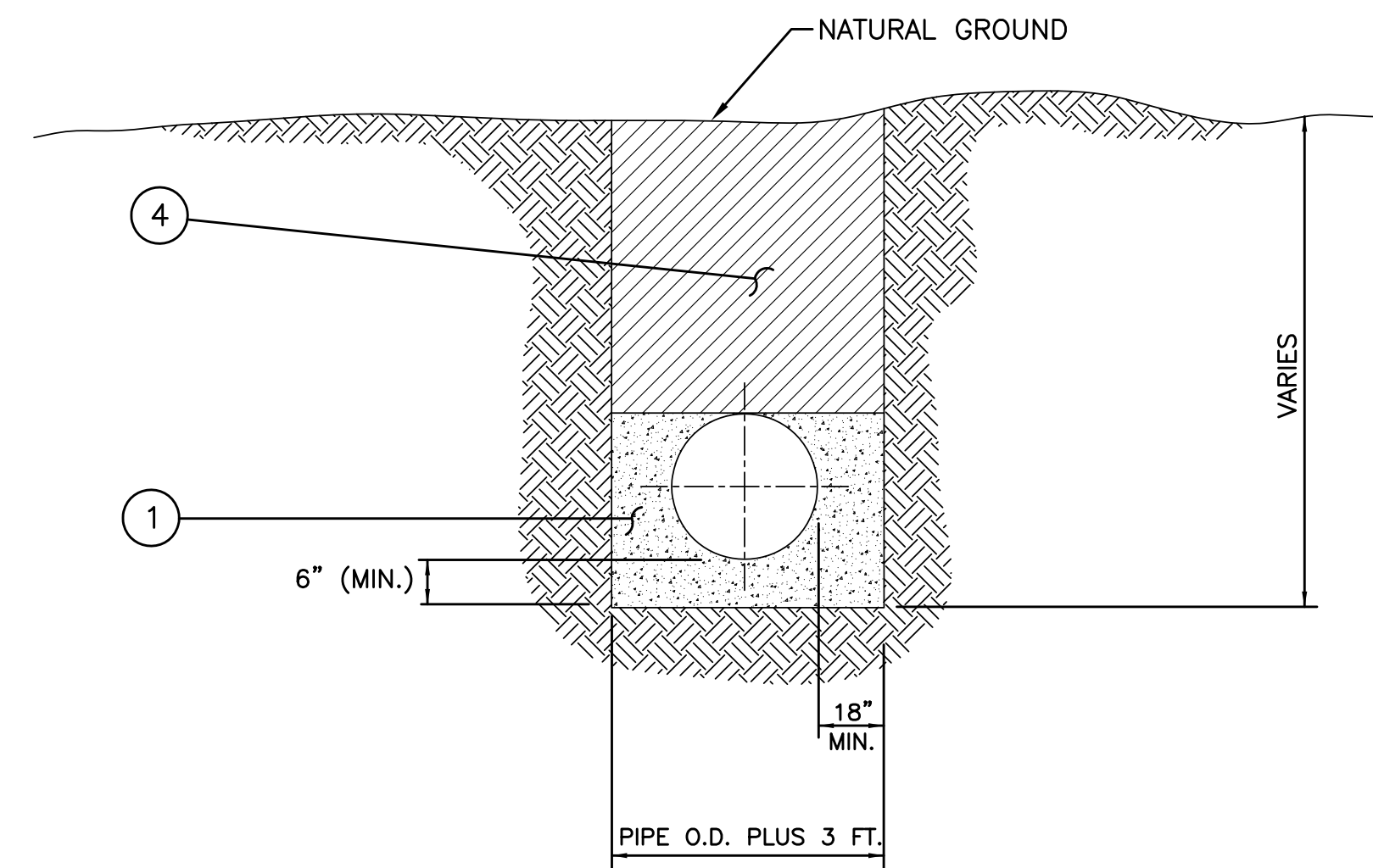
PIPE UNDER OR WITHIN 5 FEET OF STREETS AND PAVED SURFACES.



PIPE UNDER OR WITHIN 5 FEET OF STREETS AND PAVED SURFACES.



OPEN GROUND OUTSIDE LIMITS OF STREETS AND PAVED SURFACES.



OPEN GROUND OUTSIDE LIMITS OF STREETS AND PAVED SURFACES.

GENERAL NOTES:

1.) ALL MATERIALS AND DESCRIPTION OF WORK SHALL CONFORM TO THE LATEST EDITION OF THE CITY OF BATON ROUGE AND PARISH OF EAST BATON ROUGE--"STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION".

PIPE BEDDING SCHEDULE
(RIGID PIPE)

| PIPE SIZE | T1 (MIN.) |
|-----------|-----------|
| *12"-30" | 6" |
| 36"-60" | 12" |
| 66"-96" | 18" |

*12" DIAMETER PIPE MAY ONLY BE USED UNDER SPECIAL CONDITIONS.

- ① GRANULAR BEDDING MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY. (NO DIRECT PAY).
- ② BACKFILL MATERIAL (QUALITY EXCAVATED OR SELECT MATERIAL OR SAND). COMPACTED TO A DENSITY AT LEAST EQUAL TO SURROUNDING UNDISTURBED SOIL. (NO DIRECT PAY).
- ③ BACKFILL MATERIAL (SAND). COMPACTED TO 95% STANDARD PROCTOR DENSITY. (NO DIRECT PAY).
- ④ BACKFILL MATERIAL (QUALITY EXCAVATED OR SELECT MATERIAL). COMPACTED TO A DENSITY AT LEAST EQUAL TO THE SURROUNDING UNDISTURBED SOIL. (NO DIRECT PAY).

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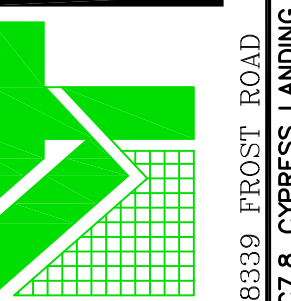
"THESE PLANS HAVE BEEN PROPERLY EXAMINED BY THE UNDERSIGNED. I HAVE DETERMINED THAT THEY COMPLY WITH EXISTING LOCAL LOUISIANA CODES, AND HAVE BEEN PROPERLY SITE ADAPTED TO USE IN THIS AREA."

CYPRESS LANDING
PRELIMINARY PLANS
BEDDING & BACKFILL FOR DRAIN PIPES

LOCATED IN SECTION 20, T6S-R3E
GREENSBURG LAND DISTRICT
LIVINGSTON PARISH, LOUISIANA
FOR
BRAD MARCOTTE CONSTRUCTION, L.L.C.

WILLIAM L. TAYLOR, II
Name
PRELIMINARY
34361
Lic. No.

McLin Taylor, Inc.
Engineering and Land Surveying
LIVINGSTON, LA 70754 (225) 688-1414



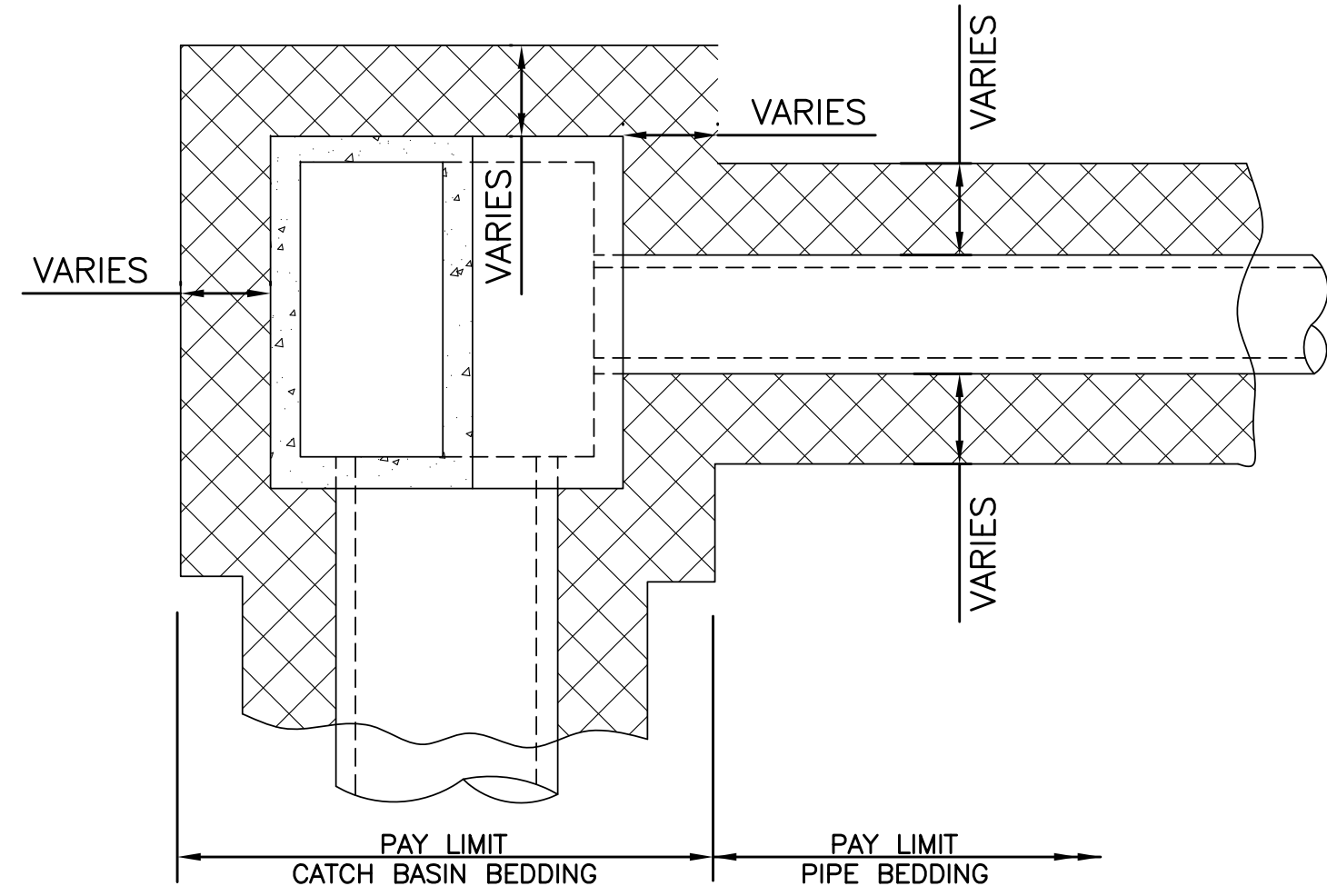
28339 FROST ROAD
CYPRESS LANDING CONSTRUCTION PLANS\C7.1-C7.8 CYPRESS LANDING DETAILS.DWG JAN-14-2019 ESPERS

JOB NO.
2180194

SHEET NO.
C7.1

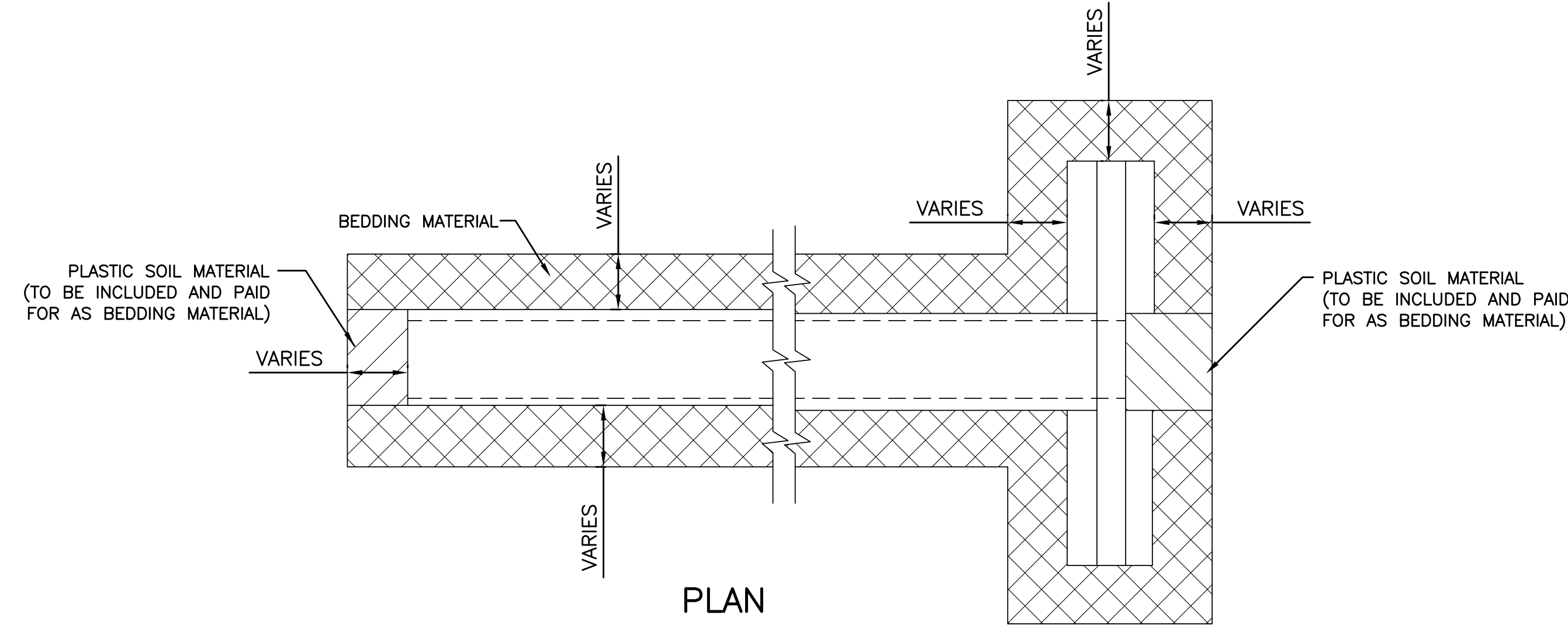
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TYPICAL CATCH BASIN AND STORM SEWER INSTALLATION WITH BEDDING MATERIAL

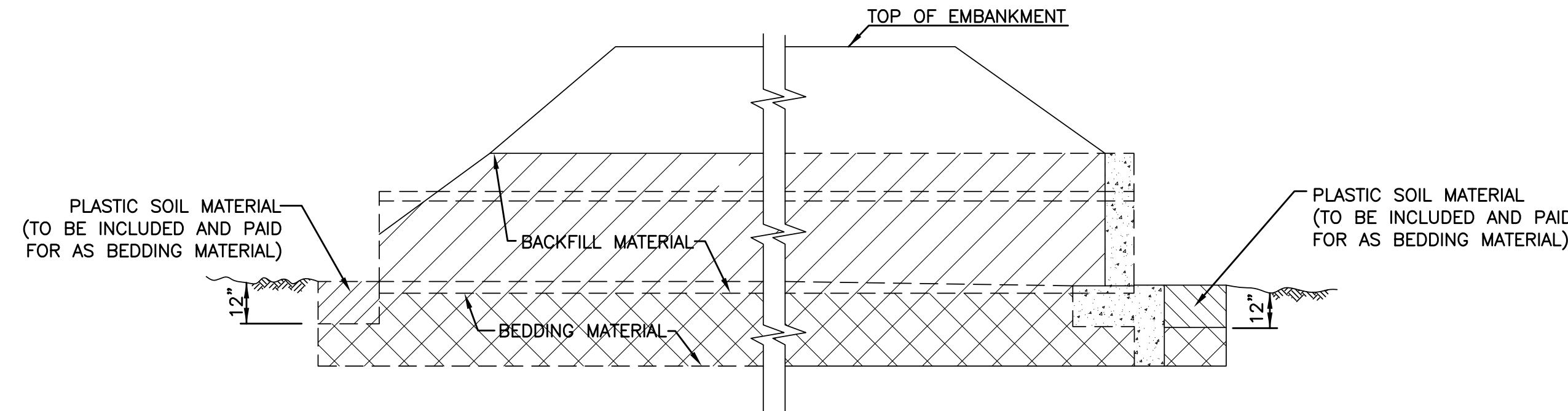


PLAN OF TYPICAL CATCH BASIN (MANHOLE OR JUNCTION BOX) & PIPE

TYPICAL CROSS DRAIN INSTALLATION WITH BEDDING MATERIAL



PLAN



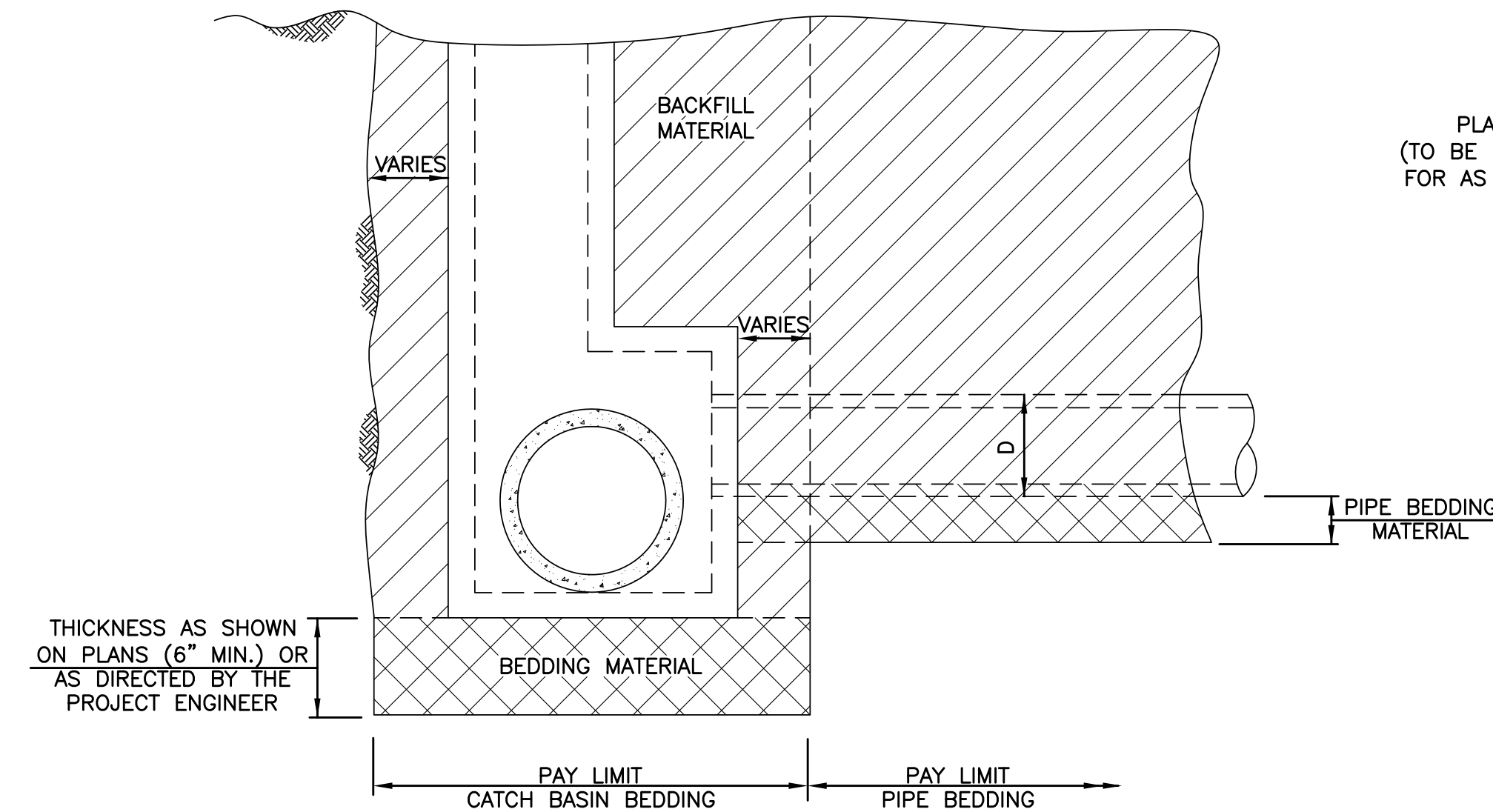
PROFILE

GENERAL NOTES:

- 1.) 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."
- 2.) 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.
- 3.) 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.
- 4.) BEDDING SHOWN ON THIS STANDARD PLAN CONFORMS TO THE CURRENT AASHTO SPECIFICATIONS.
- 5.) FLEXIBLE PIPE CONSIST OF ALL CORRUGATED METAL AND PLASTIC PIPE.
- 6.) REINFORCED CONCRETE PIPE AND FLEXIBLE PIPE ARE SHOWN AS TYPICAL STRUCTURES, DETAILS FOR REINFORCED CONCRETE PIPE ARCH, CORRUGATED METAL PIPE ARCH AND CORRUGATED STRUCTURAL PLATE STRUCTURES ARE SIMILAR.
- 7.) GEOTEXTILE FABRIC SHALL BE REQUIRED WHEN BEDDING MATERIAL IS REQUIRED AND SHALL BE PLACED IN ACCORDANCE WITH DETAILS PRIOR TO PLACING BEDDING MATERIAL. ADJACENT STRIPS OF GEOTEXTILE FABRIC SHALL LAP EACH OTHER FOR AT LEAST 18". GEOTEXTILE FABRIC WILL NOT BE MEASURED FOR PAYMENT.
- 8.) FOR TYPE "A" BACKFILL, GEOTEXTILE FABRIC SHALL SURROUND THE BEDDING MATERIAL AND BACKFILL MATERIAL AS SHOWN ON THE DETAIL. FOR TYPE "B" BACKFILL, GEOTEXTILE FABRIC SHALL BORDER THE PERIMETER OF THE BEDDING MATERIAL UP TO THE BOTTOM OF THE PIPE.
- 9.) MINIMUM COVER IS 12" FOR RCP(A). SEE STANDARD PLAN SAM-1 FOR MINIMUM COVER OF FLEXIBLE PIPE. THERE IS NO MINIMUM COVER REQUIREMENT FOR RCB.

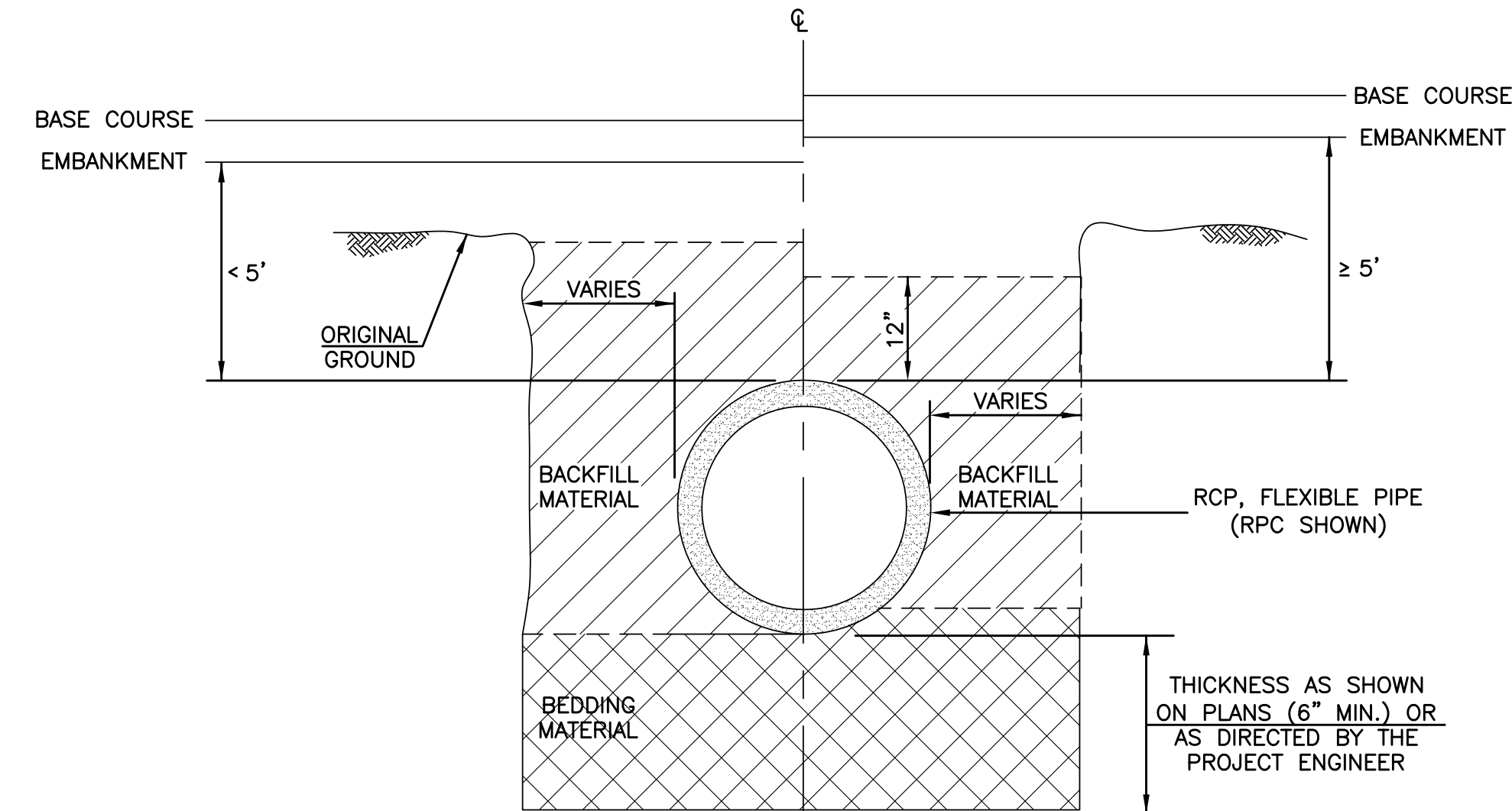
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"THESE PLANS HAVE BEEN PROPERLY EXAMINED BY THE UNDERSIGNED. I HAVE DETERMINED THAT THEY COMPLY WITH EXISTING LOCAL LOUISIANA CODES, AND HAVE BEEN PROPERLY SITE ADAPTED TO USE IN THIS AREA."



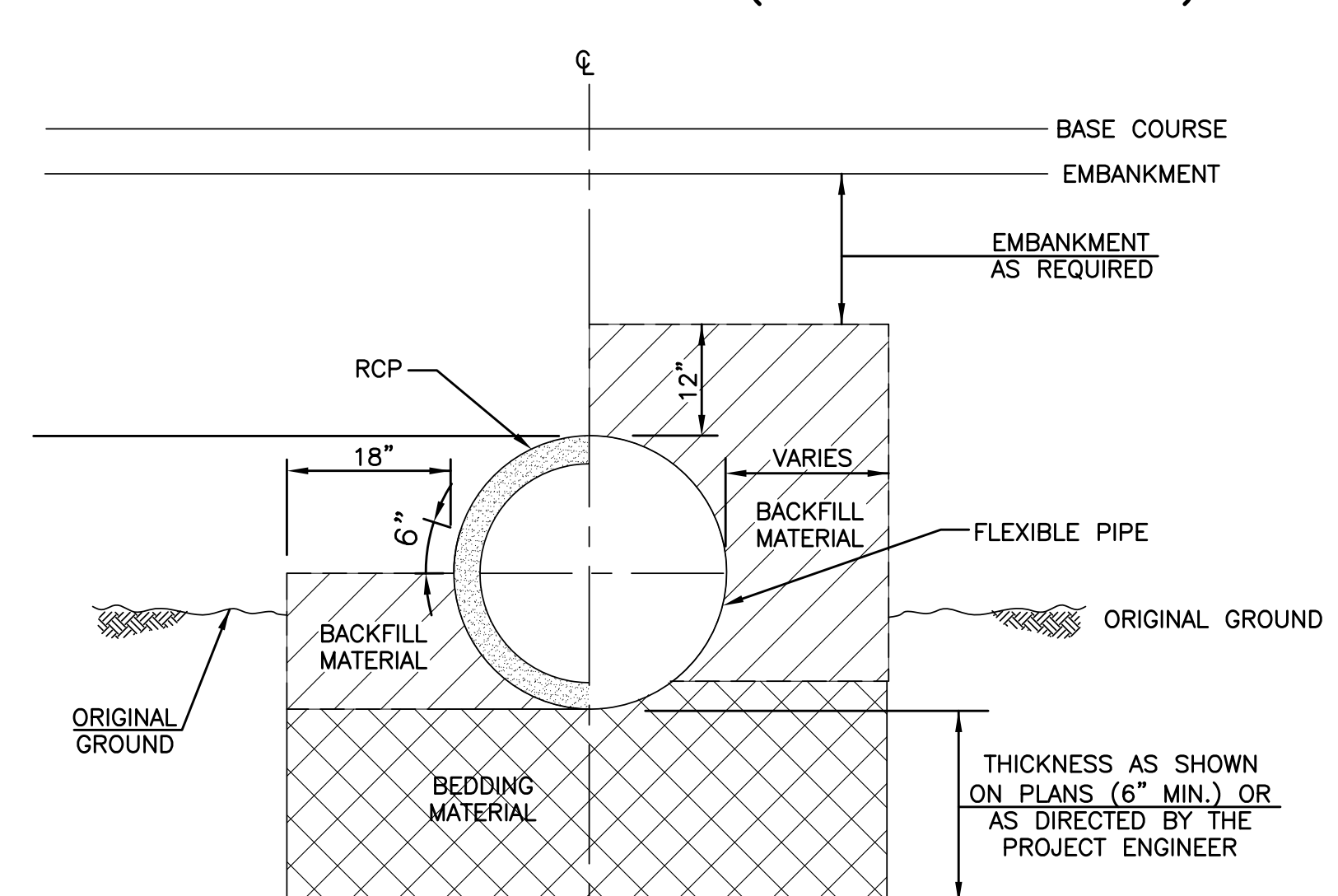
PROFILE OF TYPICAL CATCH BASIN, (MANHOLE OR JUNCTION BOX) AND PIPE

TYPICAL PIPE INSTALLATION WITH BEDDING MATERIAL TYPE "A" OR "B" BACKFILL (TYPE "A" SHOWN)



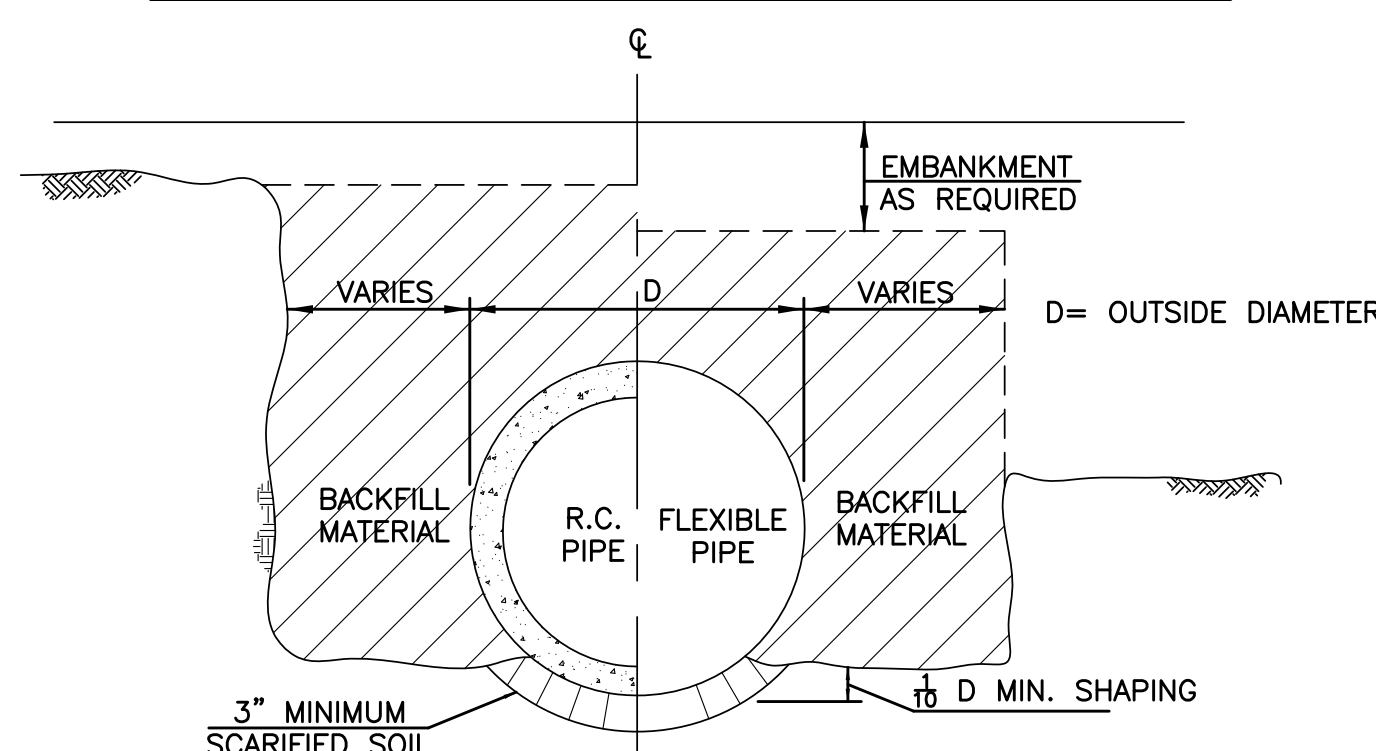
HALF-SECTION SHOWING EMBANKMENT < 5' ABOVE TOP OF PIPE RCP, FLEXIBLE PIPE INSTALLATION

TYPICAL PIPE EMBANKMENT INSTALLATION WITH BEDDING MATERIAL TYPE "A" OR "B" BACKFILL (TYPE "A" SHOWN)



HALF-SECTION SHOWING TOP OF PIPE ABOVE ORIGINAL GROUND RCP INSTALLATION

TYPICAL PIPE INSTALLATION WITHOUT BEDDING MATERIAL

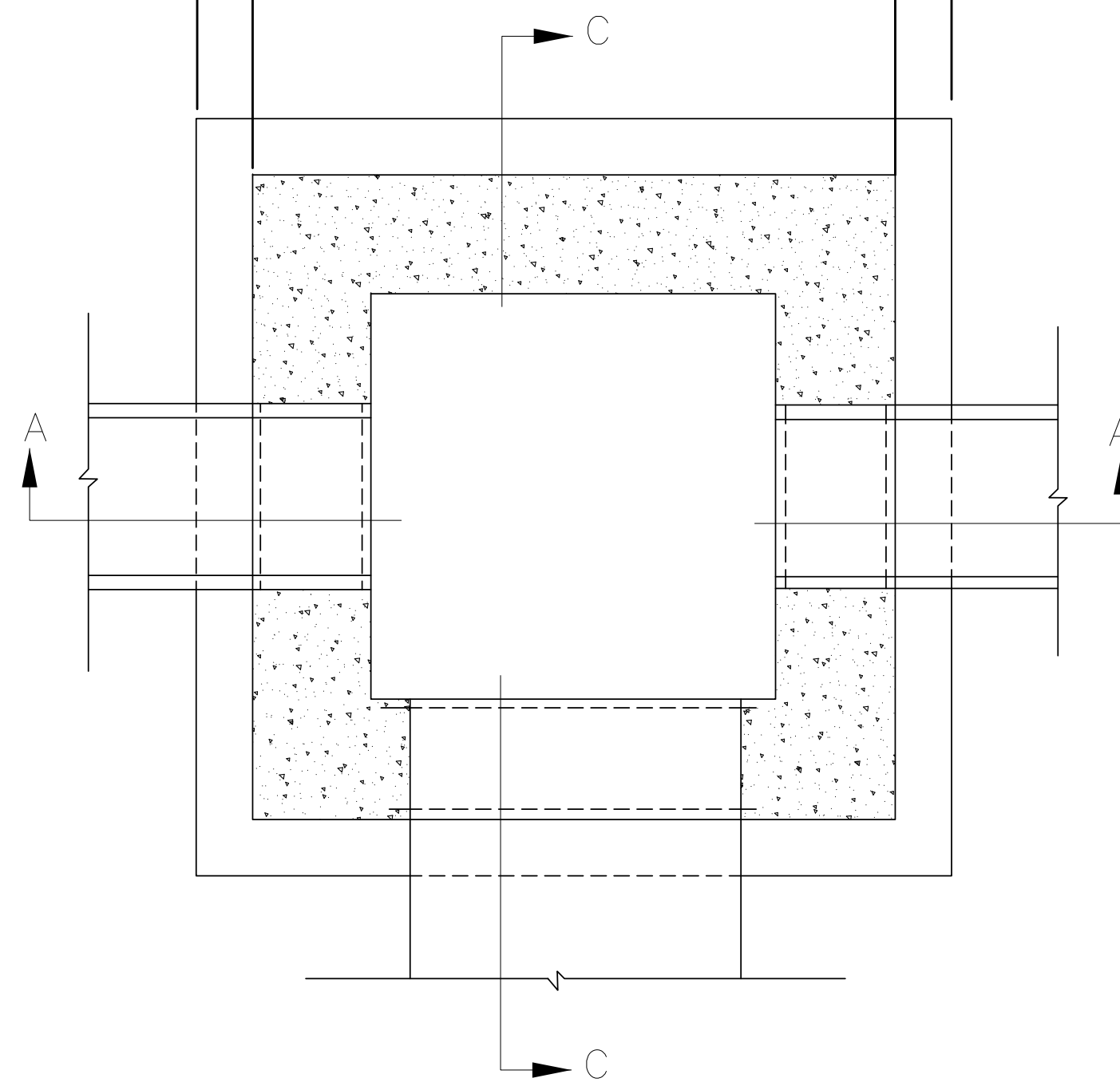
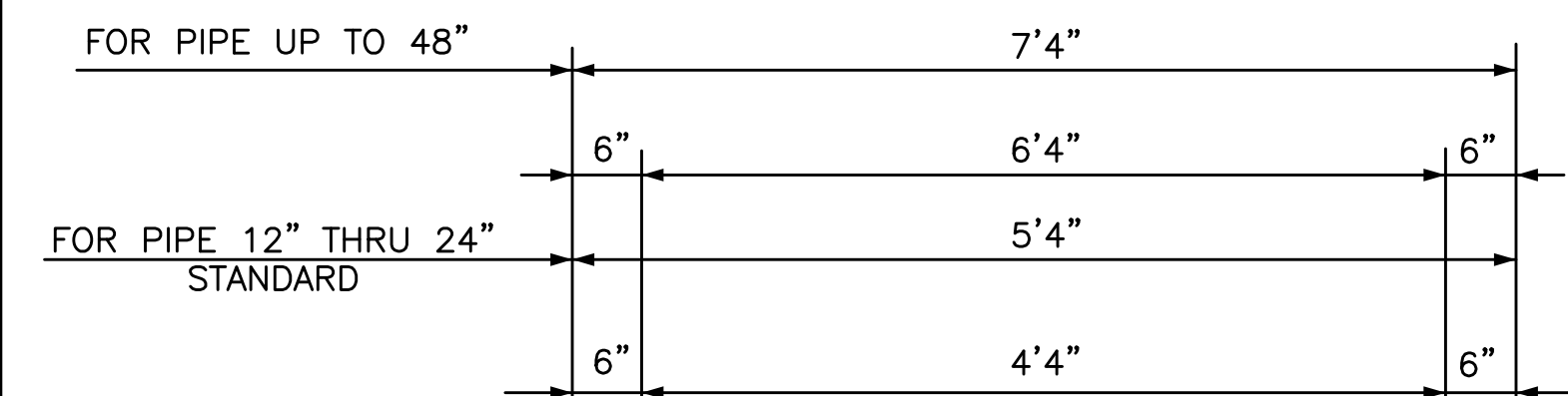
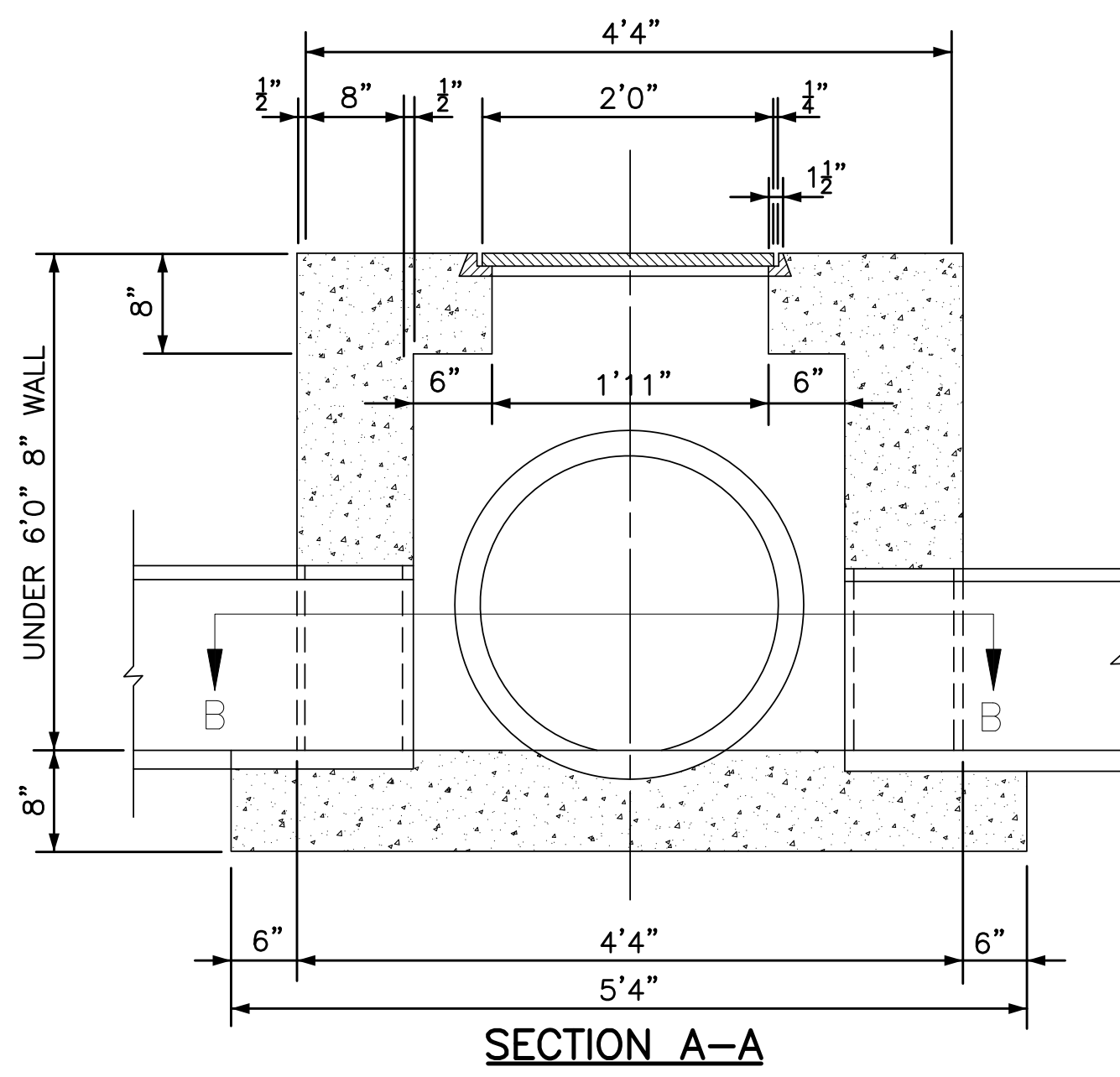


SECTION THRU TRENCH/EMBANKMENT

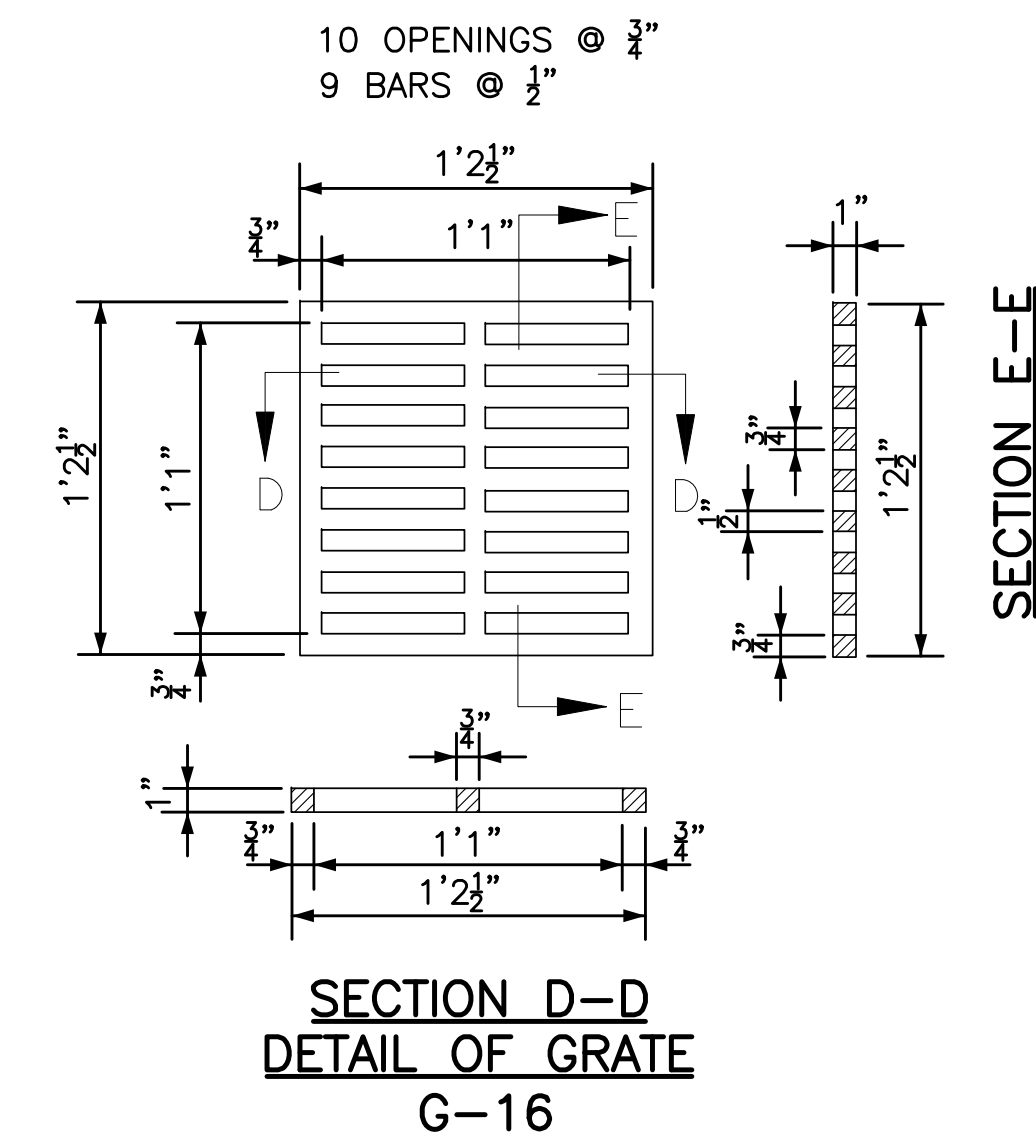
HALF-SECTION SHOWING TOP OF PIPE GREATER THAN 12" BELOW ORIGINAL GROUND (TRENCH INSTALLATION). HALF-SECTION SHOWING TOP OF PIPE ABOVE ORIGINAL GROUND (EMBANKMENT INSTALLATION)



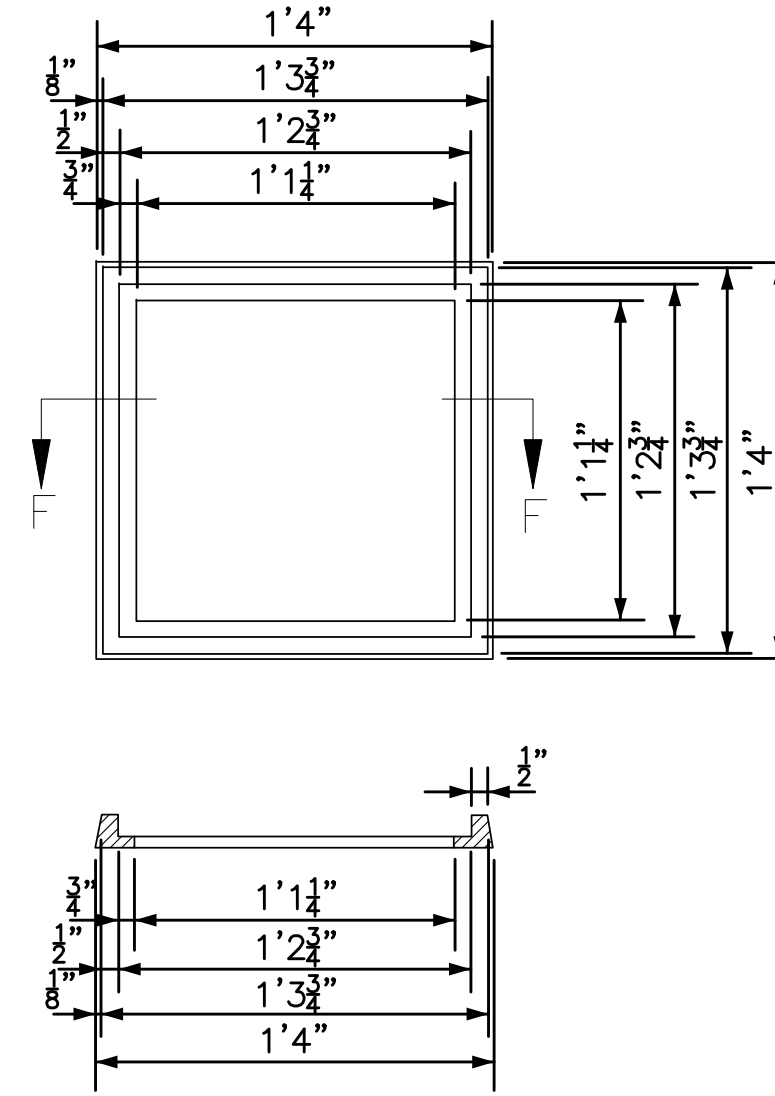
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SECTION B-B

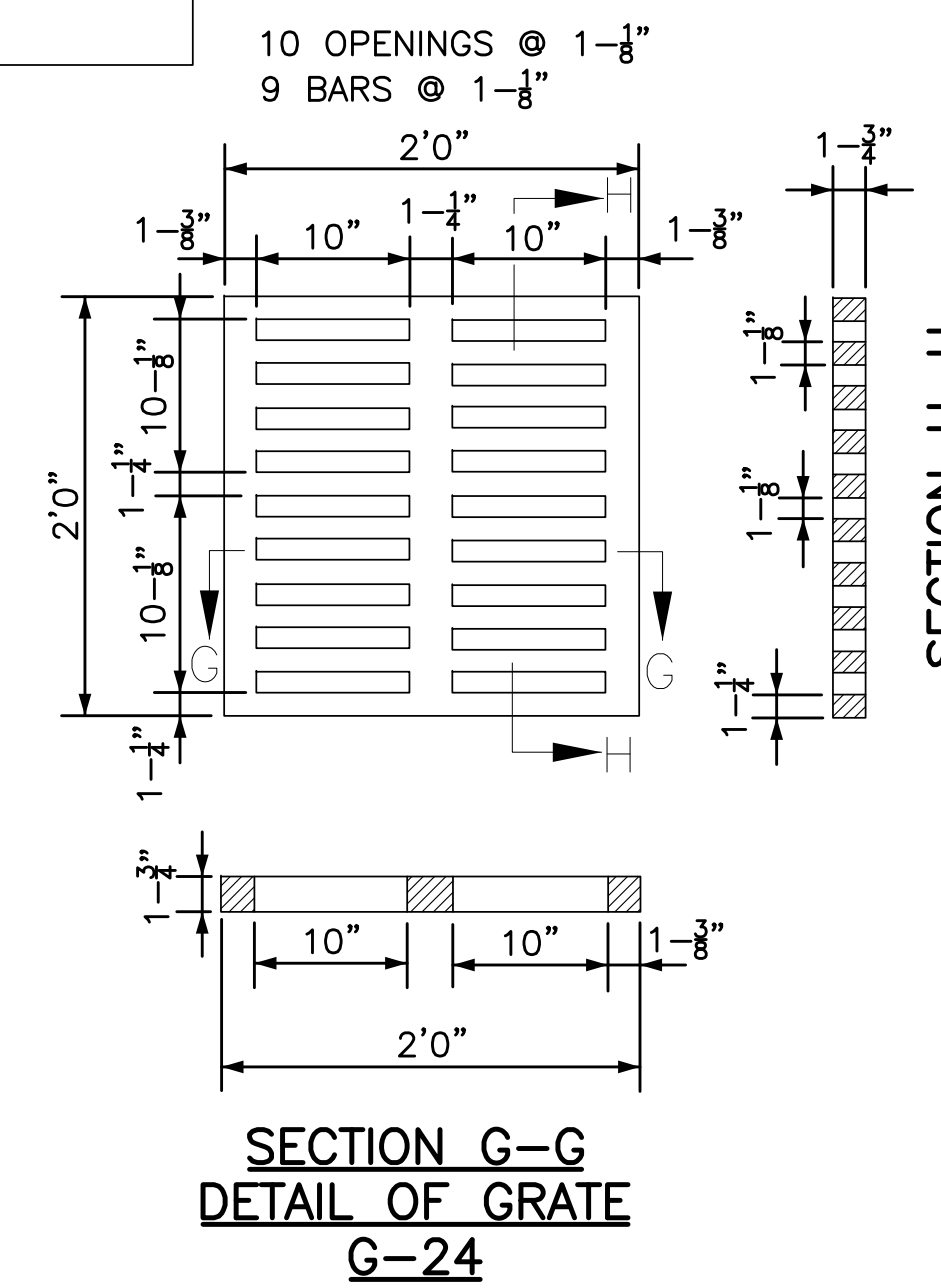
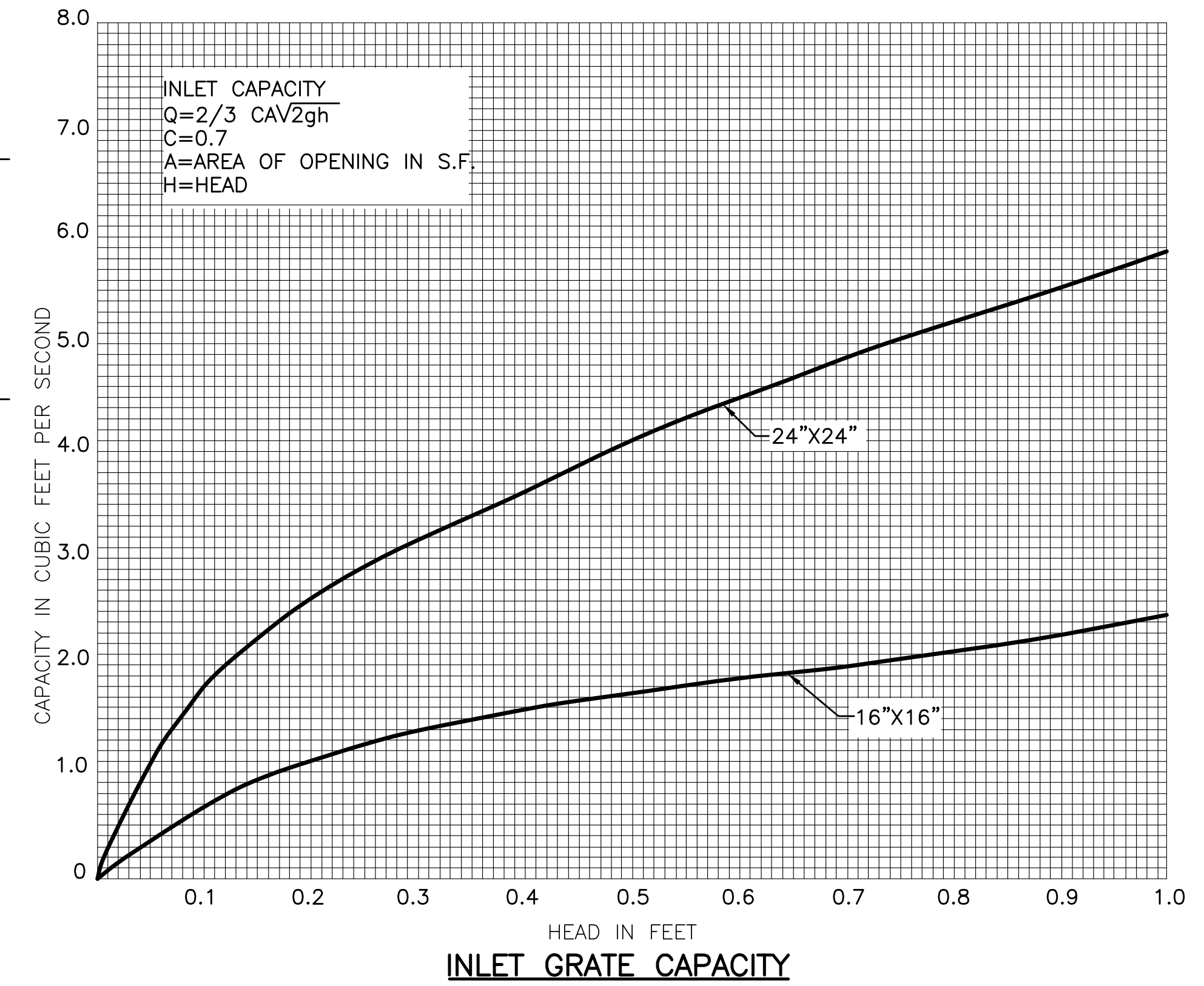
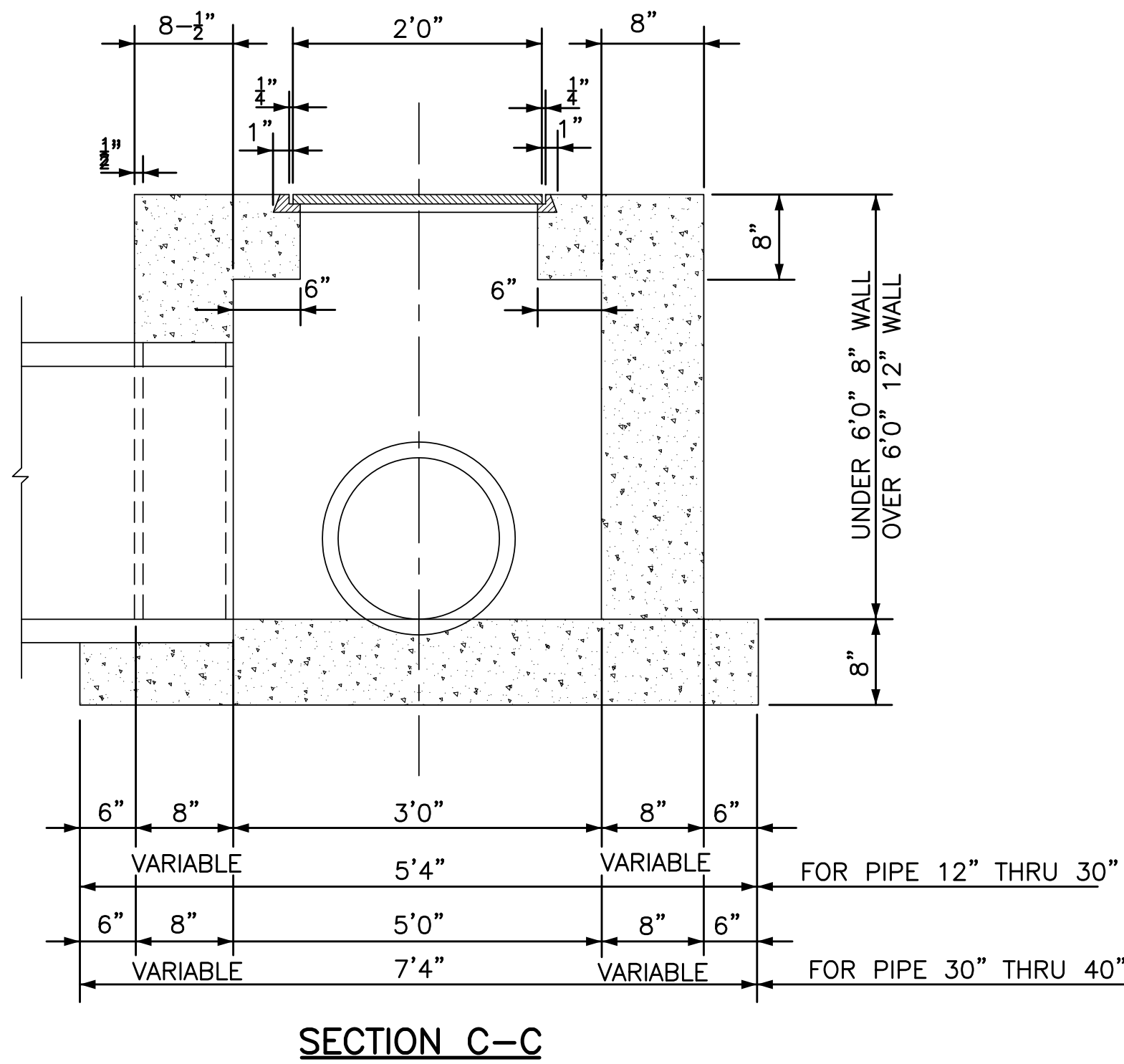
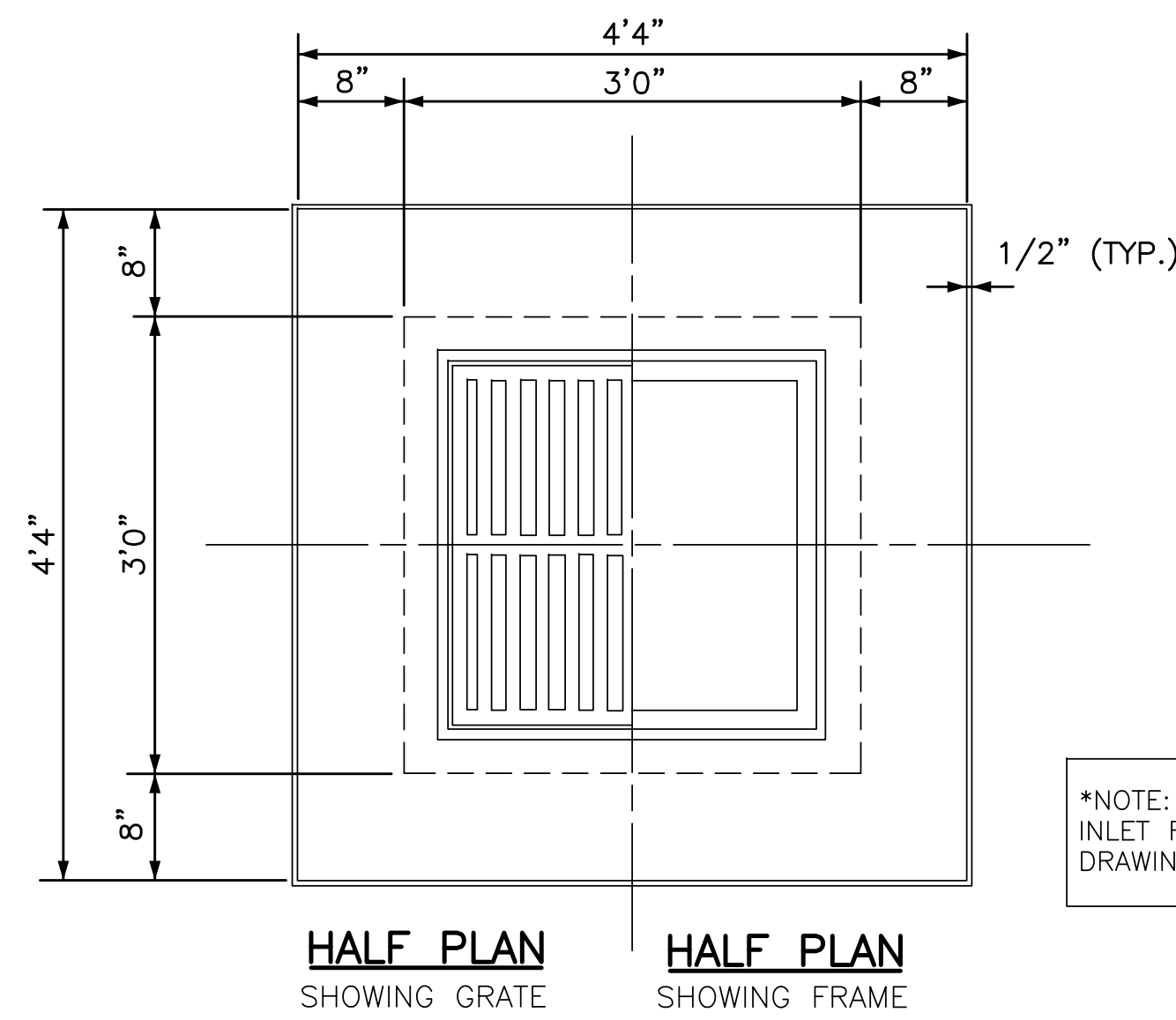


SECTION E-E

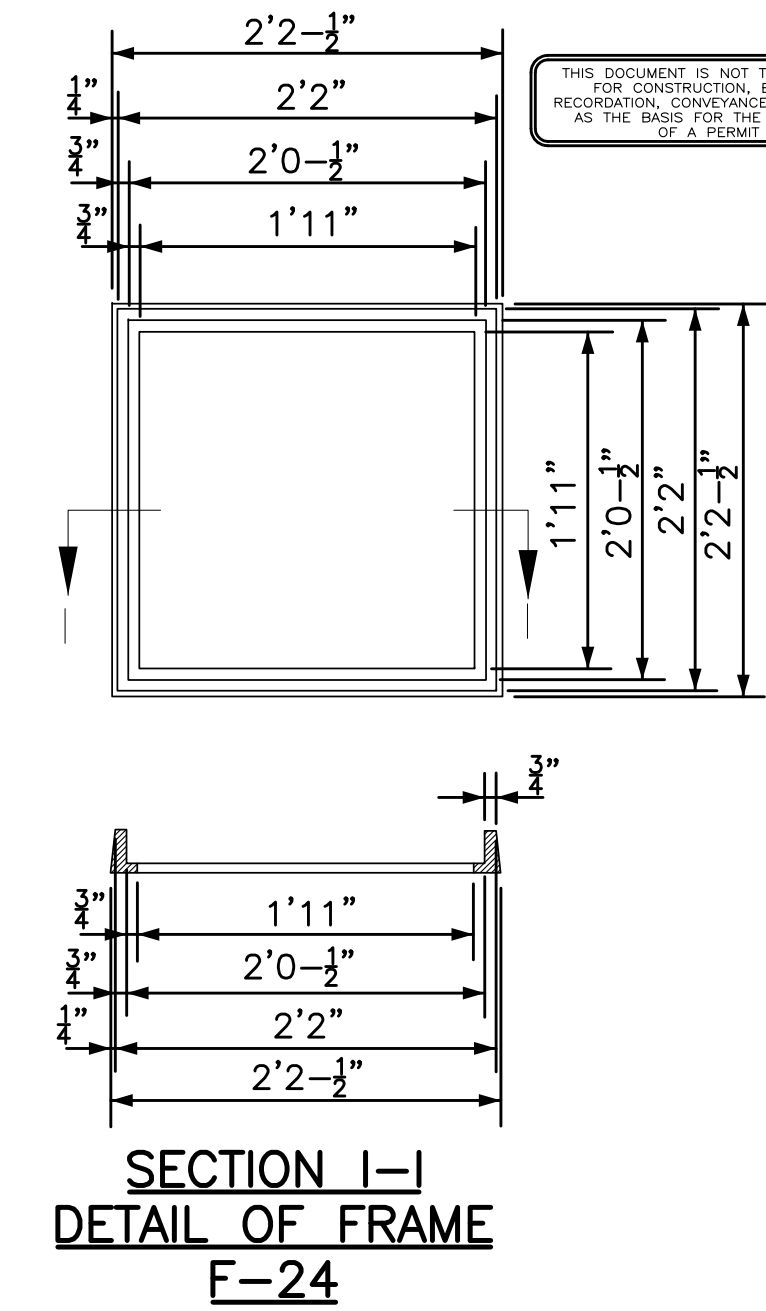


NOTE:
ALL BRICK WALLS TO BE PLASTERED
1/2" THICK INSIDE & OUTSIDE WITH
PORTLAND CEMENT MORTAR.

*NOTE: CONTRACTOR SHALL SUBSTITUTE A PRE-CAST OR PRE-FABRICATED GRATE
INLET FOR USE IN THIS SET OF CONSTRUCTION PLANS UPON SUBMITTAL OF SHOP
DRAWINGS FOR REVIEW AND APPROVAL BY PROJECT ENGINEER.

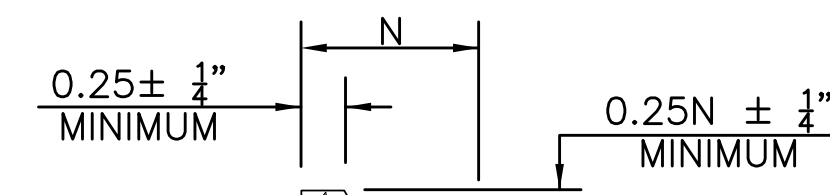


SECTION H-H



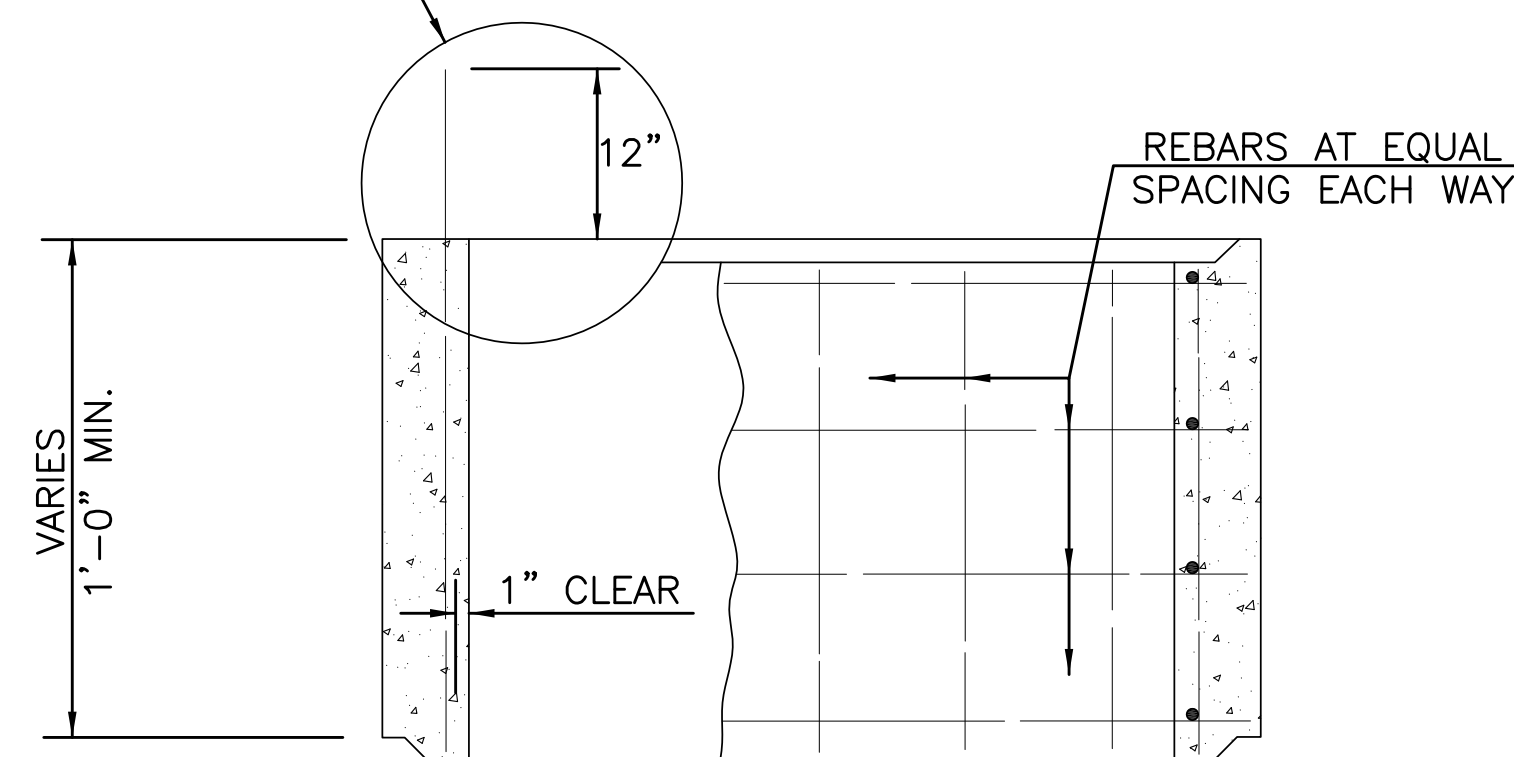
NOTE: ALL CASTING CONFORM TO
A.S.T.M. DESIGNATION A48-48 CLASS
30 FOR GREY IRON CASTINGS.

"THESE PLANS HAVE BEEN PROPERLY EXAMINED BY THE
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WITH EXISTING LOCAL LOUISIANA CODES, AND HAVE BEEN
PROPERLY SITE ADAPTED TO USE IN THIS AREA."



JOINT DETAIL

SEE GENERAL NOTE NO. 7

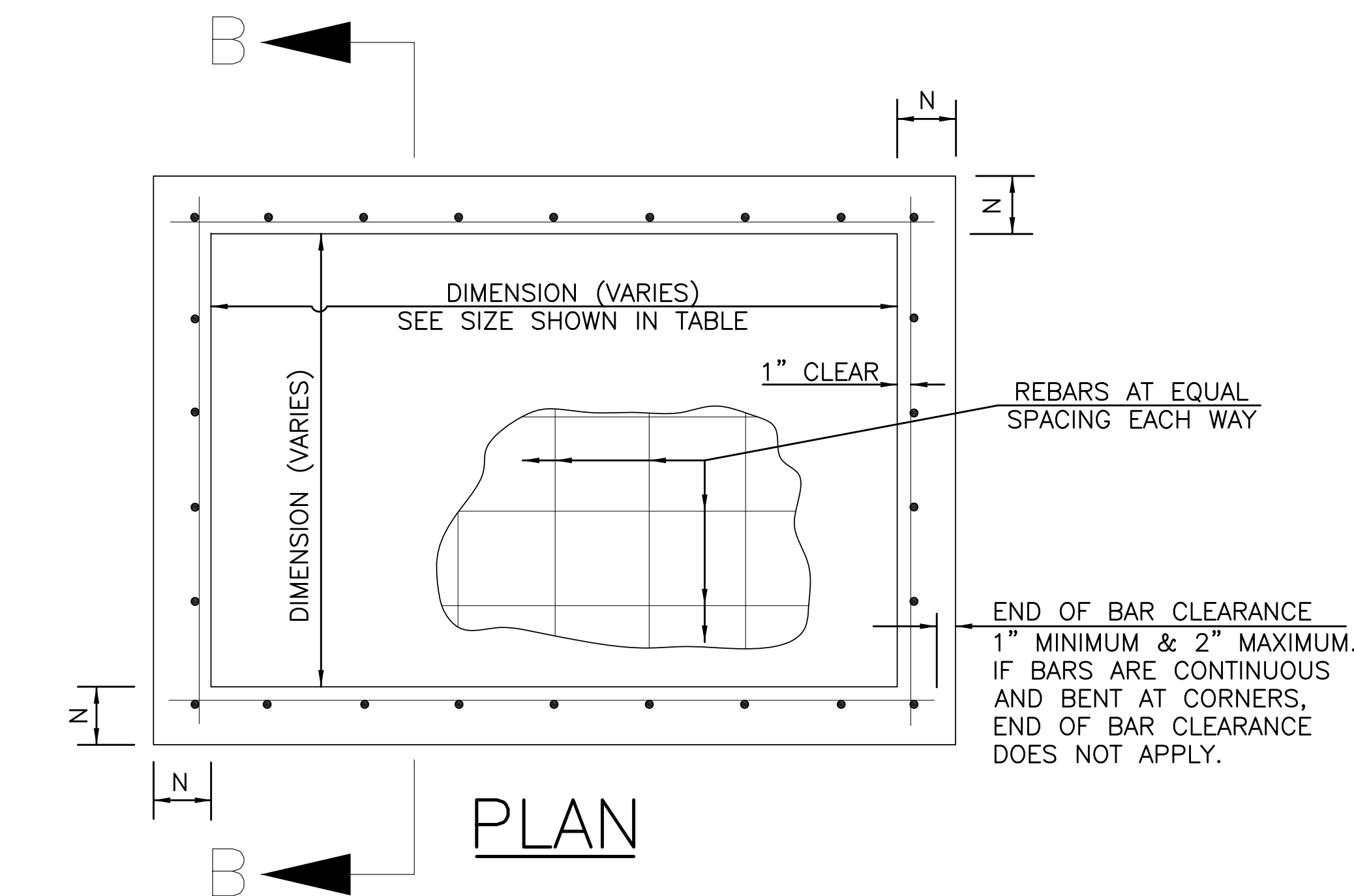


OPTIONAL RISER UNIT



BASE UNIT

SECTION B-B



PLAN

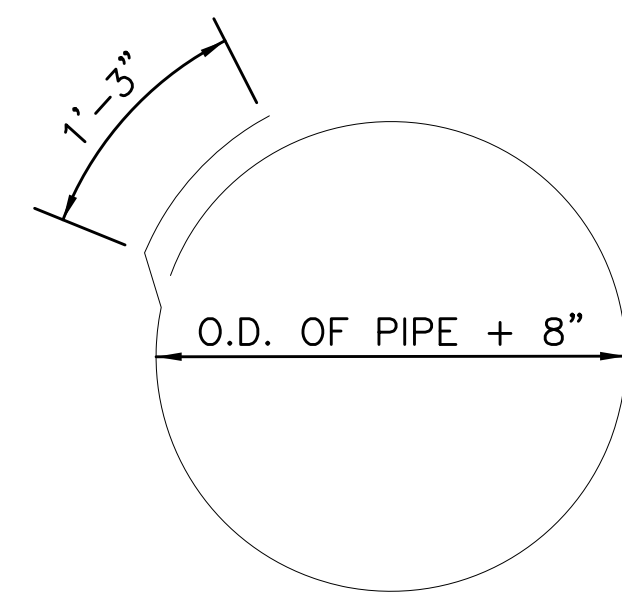
PRECAST UNITS FOR CATCH BASINS & MANHOLES

| MAX. HT. FEET | N INCHES | 4' MAX. DIMENSION | | | 6' MAX. DIMENSION | | | 8' MAX. DIMENSION | | | 10' MAX. DIMENSION | | |
|---------------|----------|-------------------|--------------|--------------------|-------------------|--------------|--------------------|-------------------|--------------|--------------------|--------------------|--------------|--------------------|
| | | BAR SIZE | SPAC. INCHES | As IN ² | BAR SIZE | SPAC. INCHES | As IN ² | BAR SIZE | SPAC. INCHES | As IN ² | BAR SIZE | SPAC. INCHES | As IN ² |
| 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 | | | | | | |

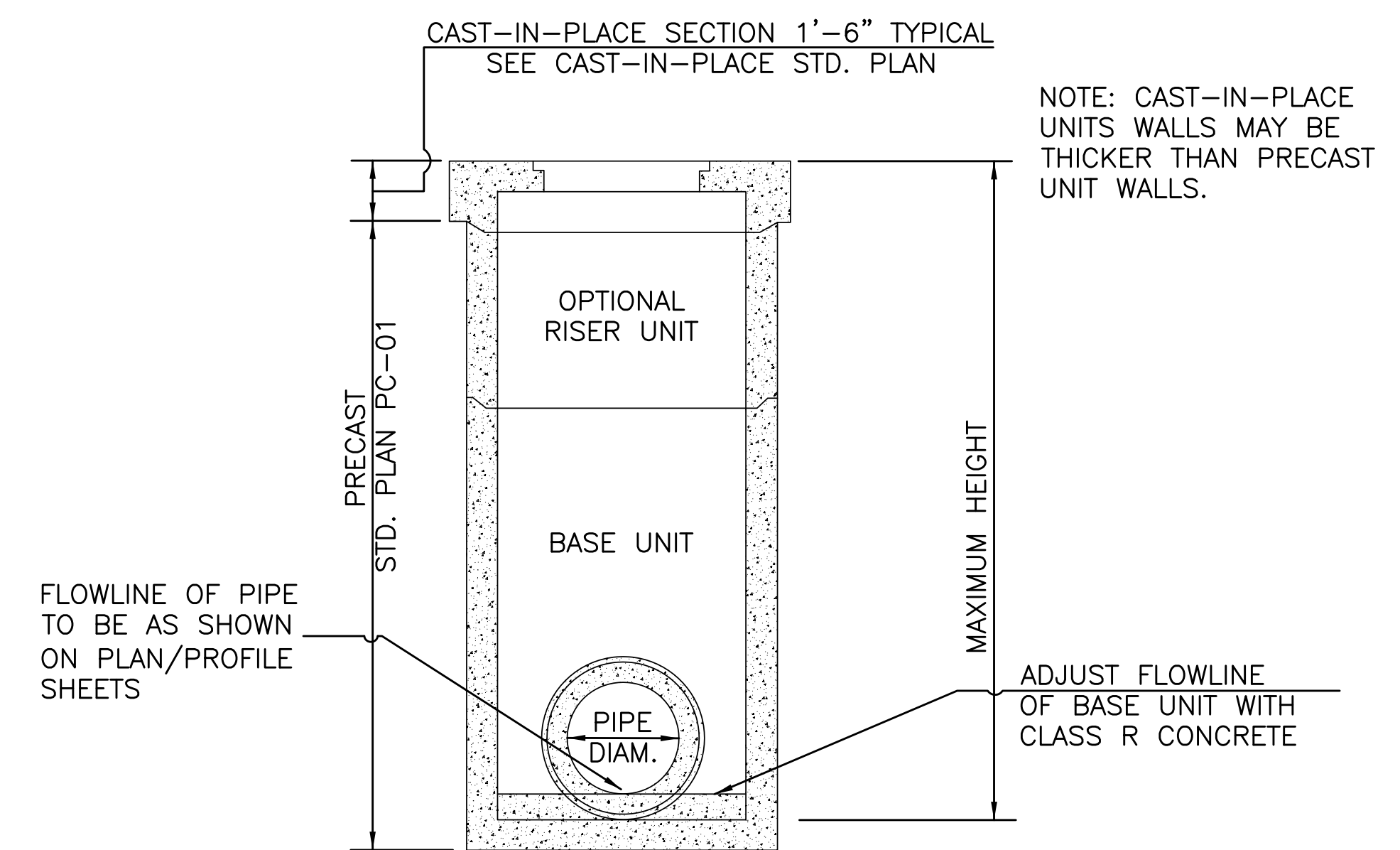
OTHER SIZES ARE ACCEPTABLE AS LONG AS THE DIMENSIONS DO NOT EXCEED THE MAXIMUM DIMENSIONS.

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

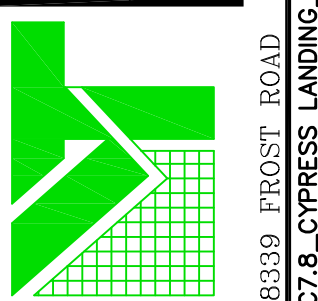


TYPICAL COMPOSITE STRUCTURE

GENERAL NOTES:

- 1.) 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.
- 2.) 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.
- 3.) PIPE OPENING TO BE FORMED ONLY WHEN REQUIRED. OTHERWISE, WALL SECTION SHALL BE AS SHOWN.
- 4.) PIPE OPENING TO BE O.D. OF PIPE + 4" ± 1/2".
- 5.) PIPE TO BE GROUTED IN AFTER INSTALLATION.
- 6.) JOINTS BETWEEN PRECAST UNITS TO BE SEALED WITH FLEXIBLE PLASTIC GASKET MATERIAL AND WRAPPED WITH A 12" WIDTH OF GEOTEXTILE FABRIC (D.O.T.D. QPL).
- 7.) JOINT BETWEEN CAST-IN-PLACE SECTION AND PRECAST UNIT TO BE TONGUE AND GROOVE AND SEALED WITH TYPE II GRADE A EPOXY (SEE DOTD QPL) OR FLAT JOINT WITH A MINIMUM OF 12" OF NO. 4 BARS AT 18" CTRS. (MAX.) EXTENDED ABOVE THE JOINT.

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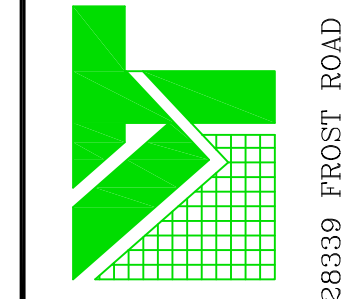


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DATE 11/29/18

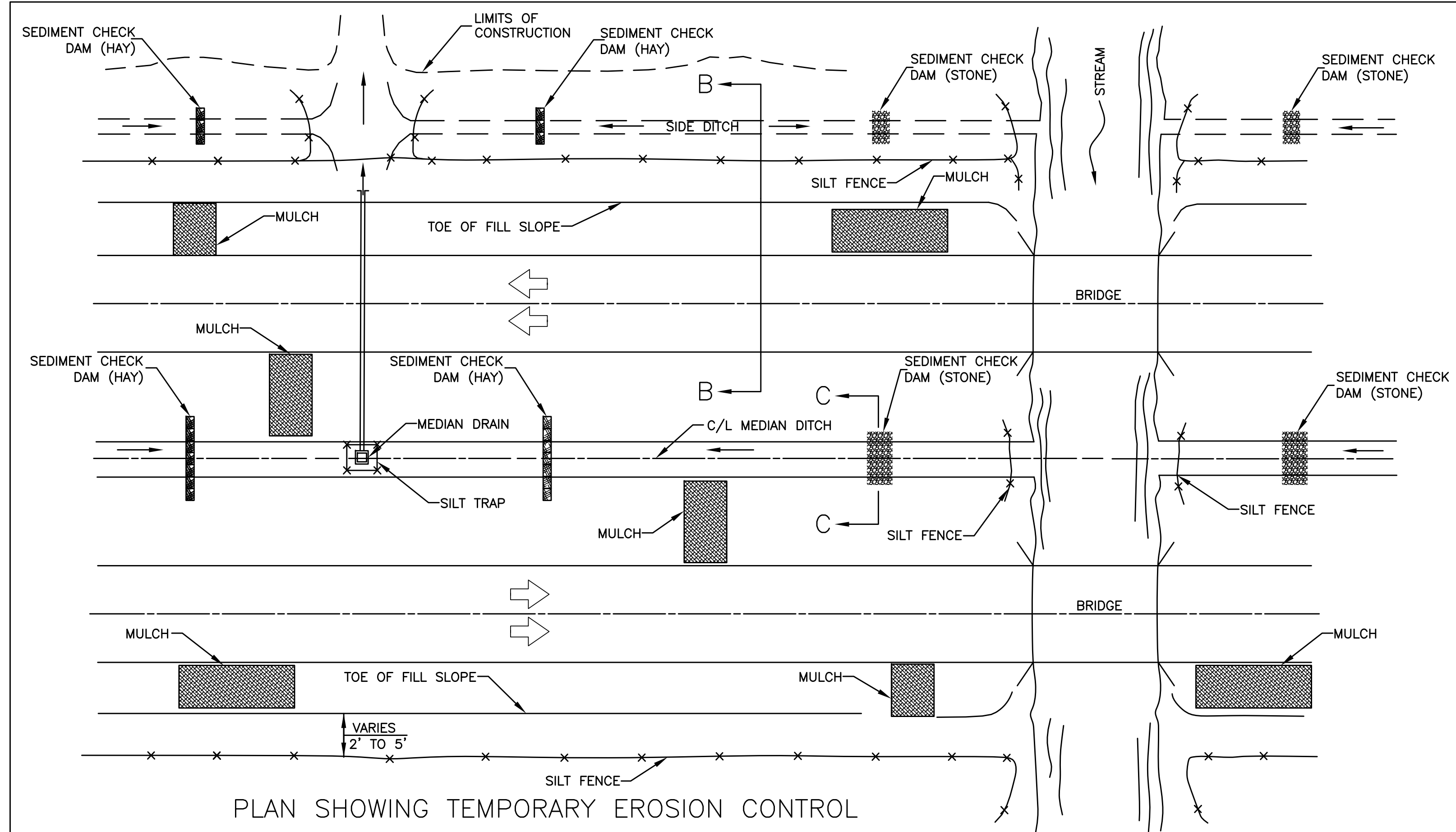
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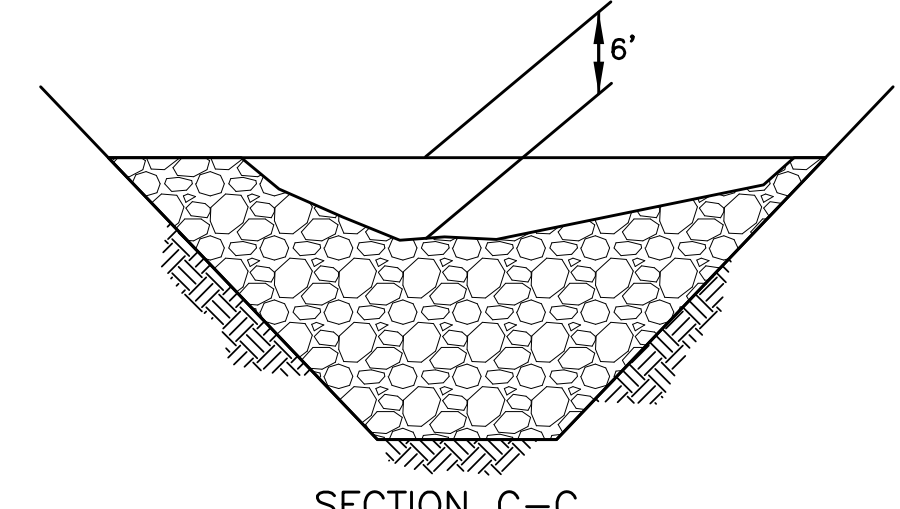
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| CHECKED BY | WLT |
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| REVISIONS | |
| JOB NO. | 2180194 |
| SHEET NO. | C7.5 |



PLAN SHOWING TEMPORARY EROSION CONTROL

MULCHES:
MULCHES ARE THE APPLICATION OF MATS OF MATERIAL PLACED ON THE SOIL SURFACE TO PREVENT EROSION BY PROTECTING THE SOIL SURFACE FROM RAINDROP IMPACT AND TO REDUCE THE VELOCITY OF OVERLAND FLOW. MULCHES CAN BE ORGANIC OR SYNTHETIC. MULCHES SHALL BE IN ACCORDANCE WITH SUBSECTION 1018.19 OF THE LA DOTD STANDARD SPECIFICATIONS. A FEW GUIDELINES FOR THE USE OF MULCHES ARE:

1. USE ON CUT AND EMBANKMENT SLOPES WHICH HAVE NOT BEEN COMPLETED TO PLAN GRADE OR WHERE THE WEATHER OR SOIL CONDITIONS WILL NOT 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.

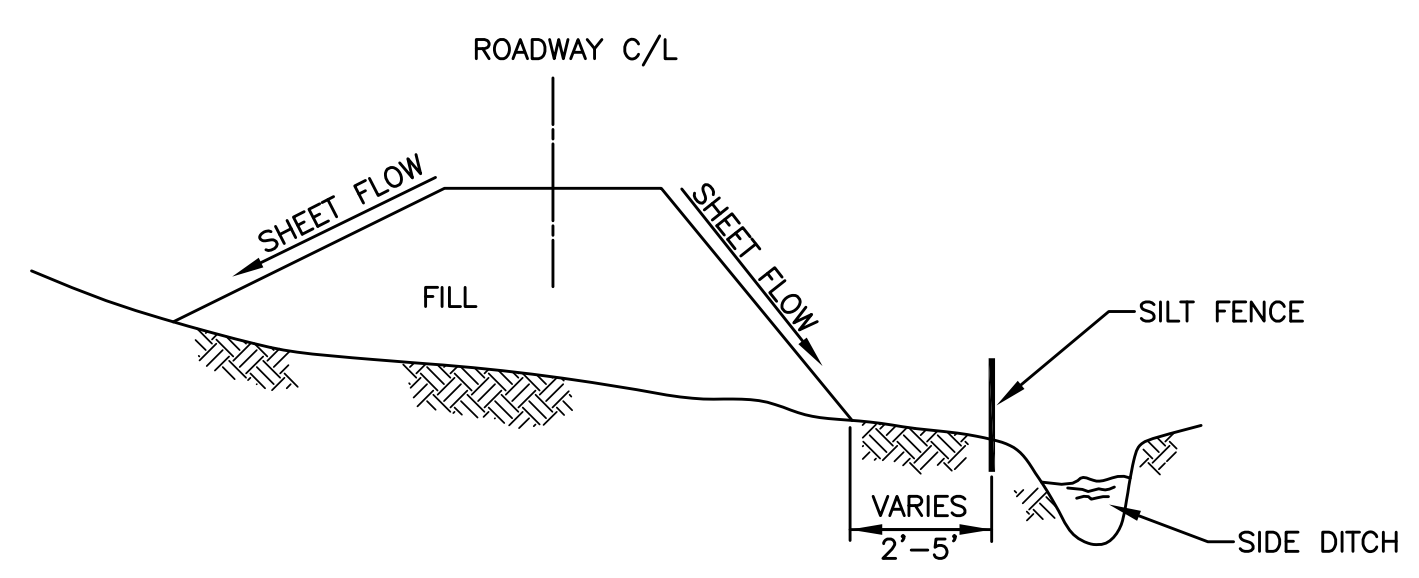


SECTION C-C
TEMPORARY SEDIMENT CHECK DAM (STONE)

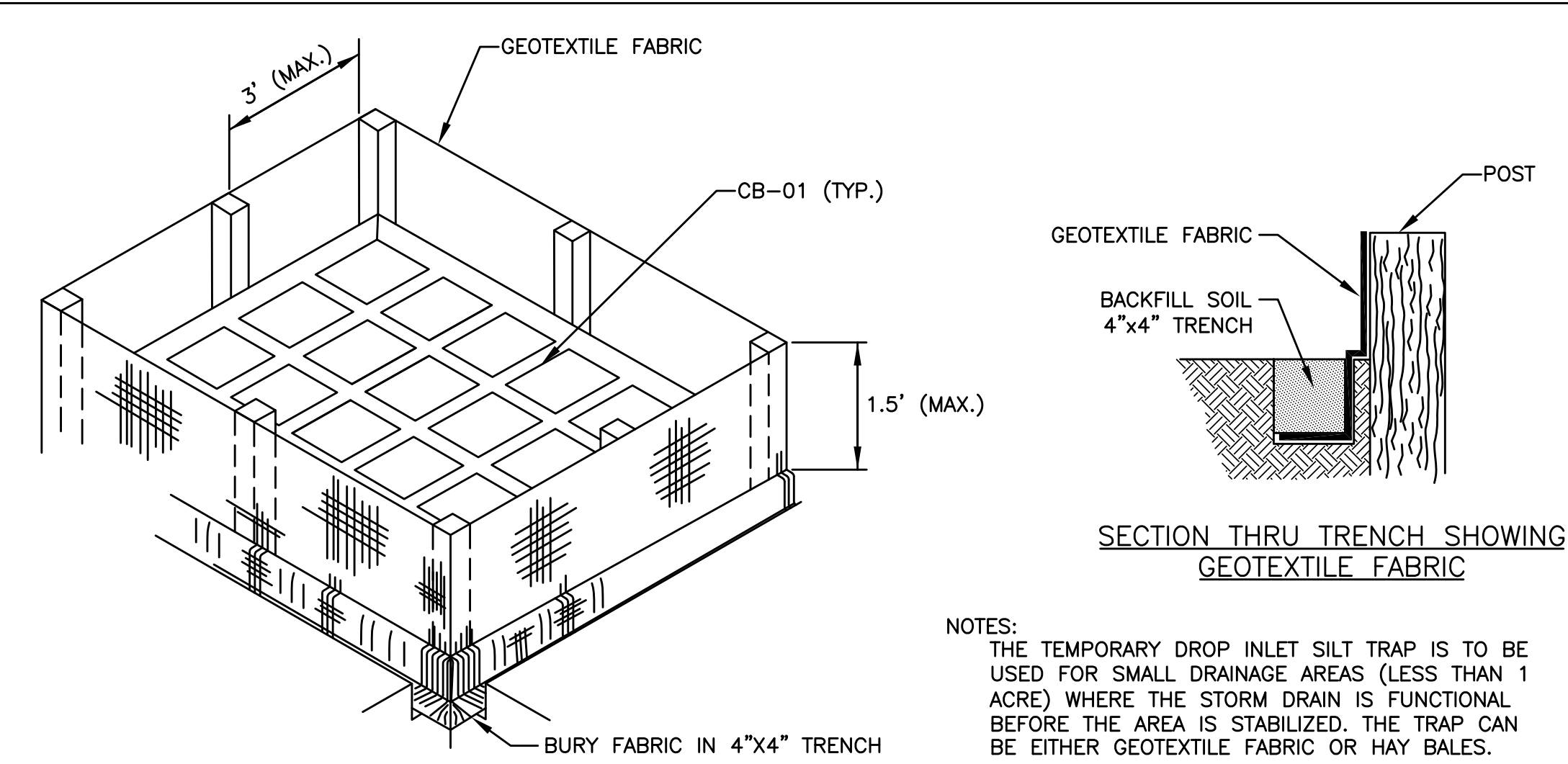
PAY ITEM: 204(05)(B) TEMPORARY SEDIMENT CHECK DAM (STONE)

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 SEDIMENT 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 A STONE CHECK DAM ARE:

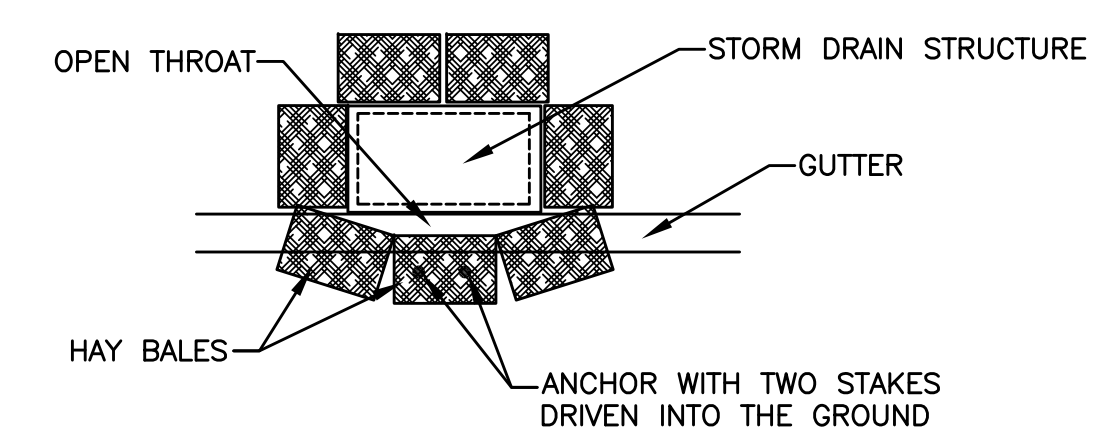
1. USE IN SMALL OPEN CHANNELS WHICH DRAIN 10 ACRES OR LESS.
2. DO NOT USE IN A LIVE STREAM.
3. USE IN A TEMPORARY DITCH OR SWALE WHICH, BECAUSE OF THEIR SHORT LENGTH OF SERVICE, CANNOT RECEIVE A NON-ERODIBLE LINING.
4. USE IN PERMANENT DITCHES OR SWALES WHICH WILL NOT RECEIVE A PERMANENT LINING FOR AN 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 711.02(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)



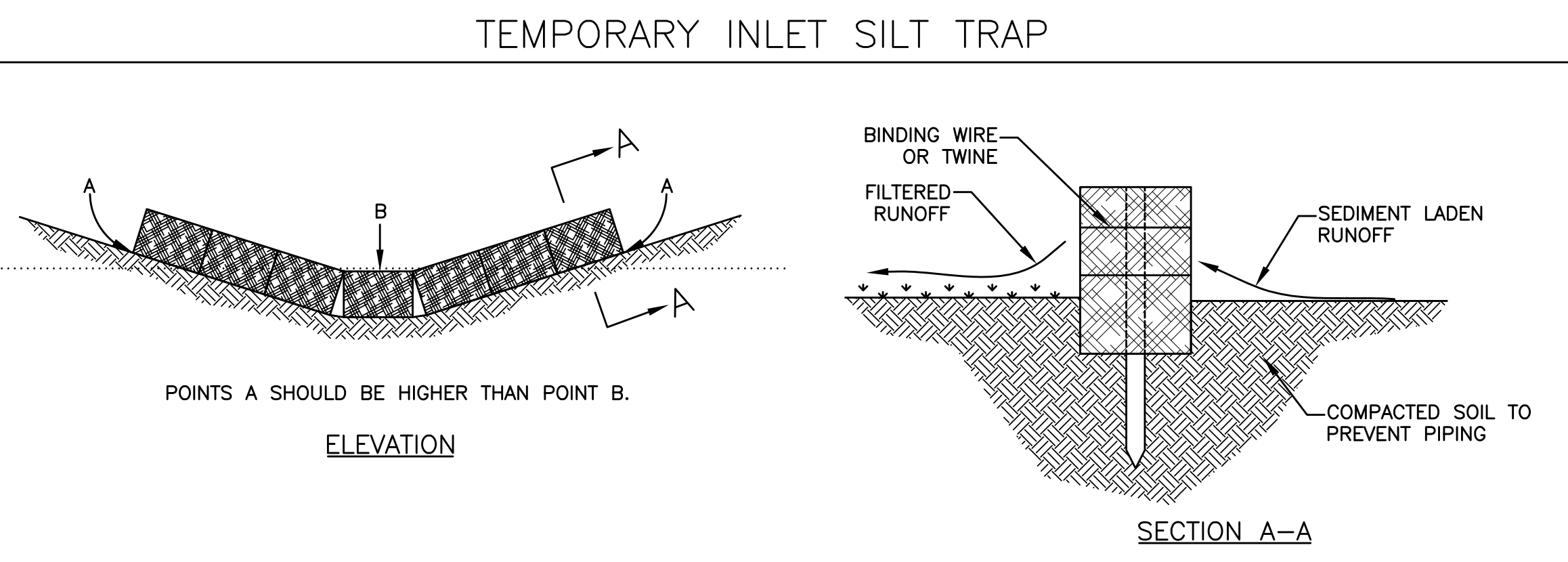
ISOMETRIC VIEW SHOWING
GEOTEXTILE FABRIC
BACKFILL SOIL NOT SHOWN



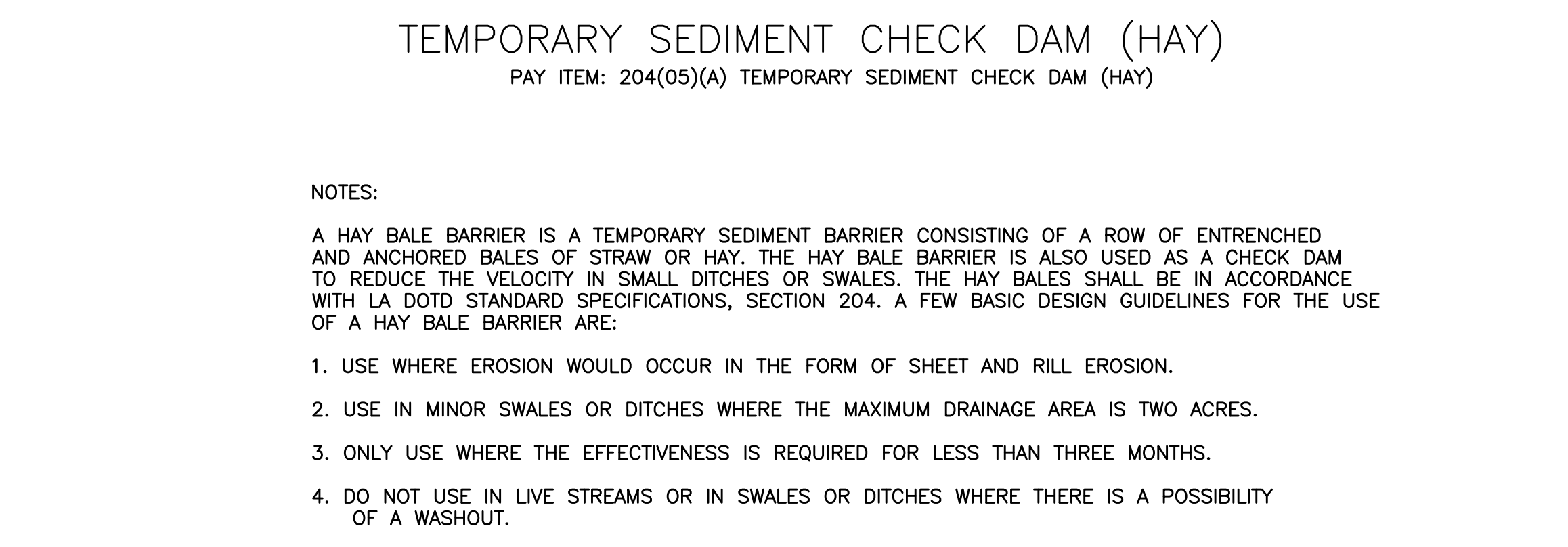
PLAN SHOWING HAY BALES
PAY ITEM: 204(02) TEMPORARY BALED HAY OR STRAW

- 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"x2" OR 2"x4" 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 APPROX. 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.

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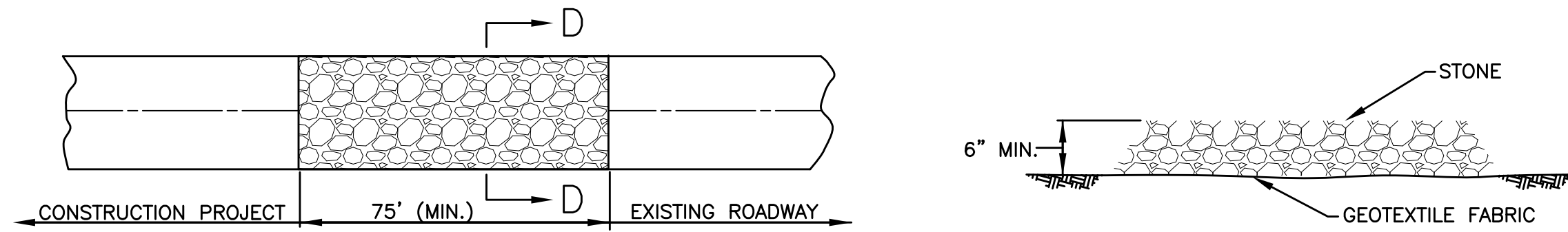
TEMPORARY INLET SILT TRAP



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

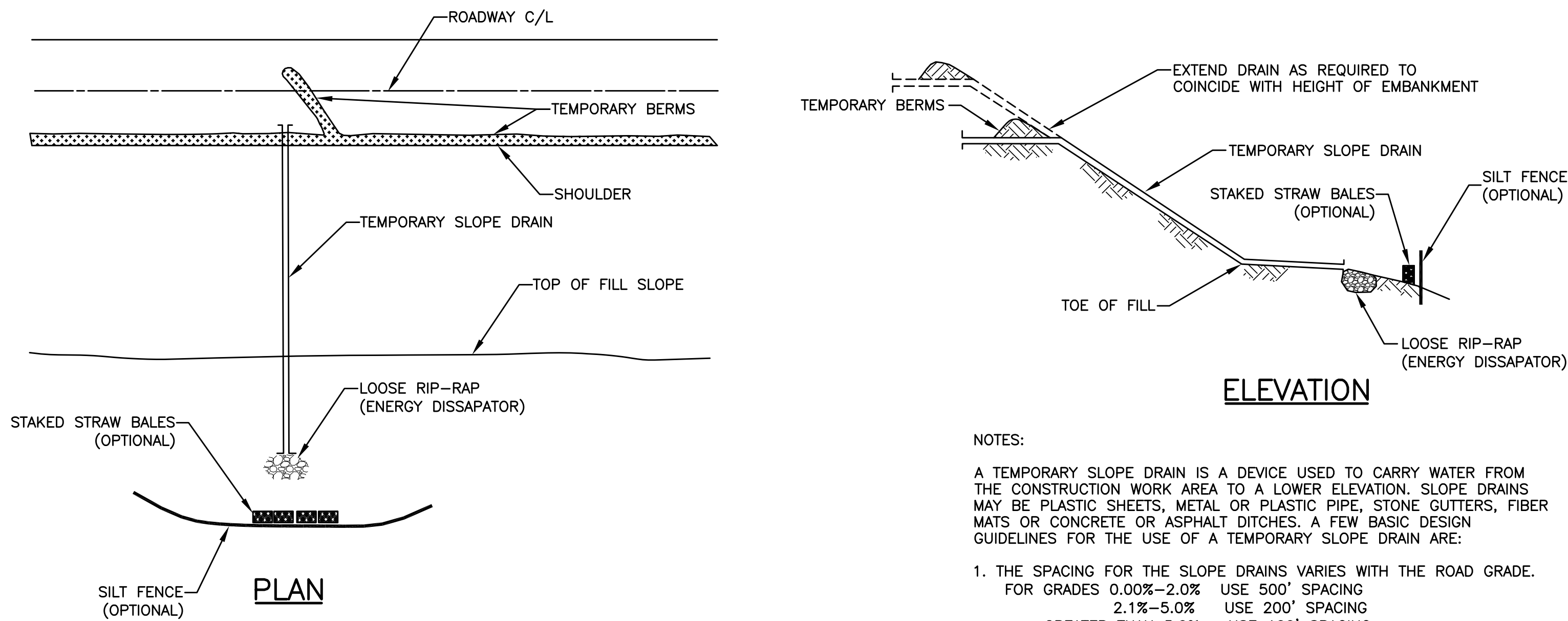
- NOTES:**
A HAY BALE BARRIER IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF A ROW OF ENTRENCHED AND ANCHORED BALES OF STRAW OR HAY. THE HAY BALE BARRIER IS ALSO USED AS A CHECK DAM TO REDUCE THE VELOCITY IN SMALL DITCHES OR SWALES. THE HAY BALES SHALL BE IN ACCORDANCE WITH LA DOTD STANDARD SPECIFICATIONS, 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 TWO ACRES.
 3. ONLY USE WHERE THE EFFECTIVENESS IS REQUIRED FOR LESS THAN THREE MONTHS.
 4. DO NOT USE IN LIVE STREAMS OR IN SWALES OR DITCHES WHERE THERE IS A POSSIBILITY OF A WASHOUT.

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PLAN
SECTION D-D
TEMPORARY STONE CONSTRUCTION ENTRANCE
 PAY AS "S-ITEM", TEMPORARY STONE CONSTRUCTION ENTRANCE

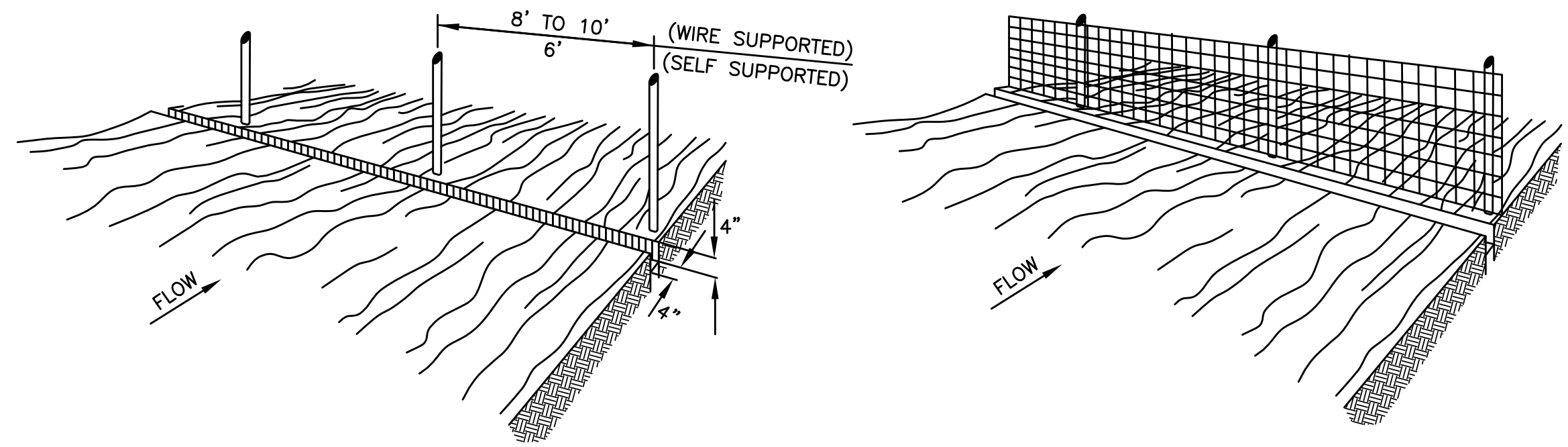
- NOTES:
 TEMPORARY STONE CONSTRUCTION ENTRANCE AND/OR WASH RACK
- A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON THE CONSTRUCTION SITE TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT 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 RACK 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 RACK IS NECESSARY, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF-SITE.



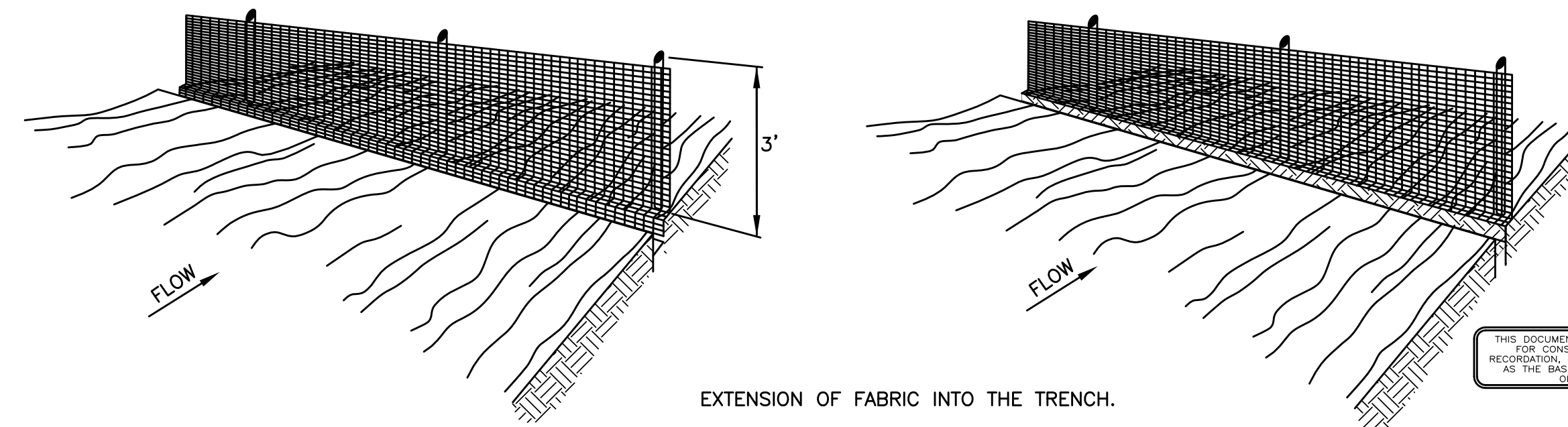
PLAN
ELEVATION
TEMPORARY SLOPE DRAIN

- NOTES:
- A TEMPORARY SLOPE DRAIN IS A DEVICE USED TO CARRY WATER FROM THE CONSTRUCTION WORK AREA 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 FOR THE SLOPE DRAINS VARIES WITH THE ROAD GRADE.
 FOR GRADES 0.00%-2.0% USE 500' SPACING
 2.1%-5.0% USE 200' SPACING
 GREATER THAN 5.0% USE 100' SPACING
 2. SLOPE DRAIN MATERIALS: SMOOTH PIPE - 8" MIN.
 CORRUGATED PIPE - 12" MIN.
 PLASTIC SHEETING - 4" WIDE MIN.
 3 MILS. THICK MIN.
 3. PLASTIC SHEETING CAN BE STAKED 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 ENSURE 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.

1. SET POST AND EXCAVATE A 4"x4" TRENCH UPSLOPE ALONG THE LINE OF POST.
2. STAPLE WIRE FENCING TO THE POST.



3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.
4. BACKFILL AND COMPACT EXCAVATED SOIL.



CONSTRUCTION OF TEMPORARY SILT FENCE
 (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.

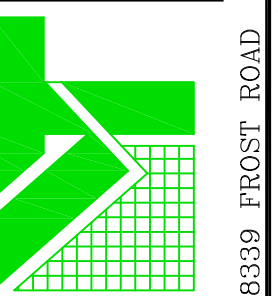
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LOCATED IN SECTION 20, T6S-R3E
 GREENSBURG LAND DISTRICT
 LIVINGSTON PARISH, LOUISIANA
 FOR
 BRAD MARCOTTE CONSTRUCTION, L.L.C.

WILLIAM L. TAYLOR, II
 Name
 PRELIMINARY
 34361
 Lic. No.

McLin Taylor, Inc.
 Engineering and Land Surveying
 28339 FROST ROAD, LIVINGSTON, LA 70754 (225) 688-1444
 X:\LP-18\2180194_LOCKHART_ROAD\CYPRESS_LANDING_STANDARD_DETAILS.DWG JAN-14-2019 ESPERS

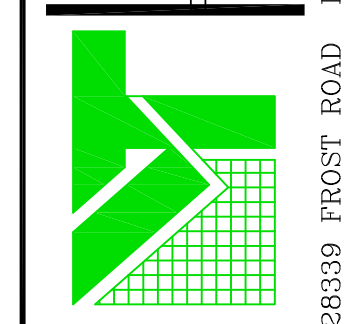


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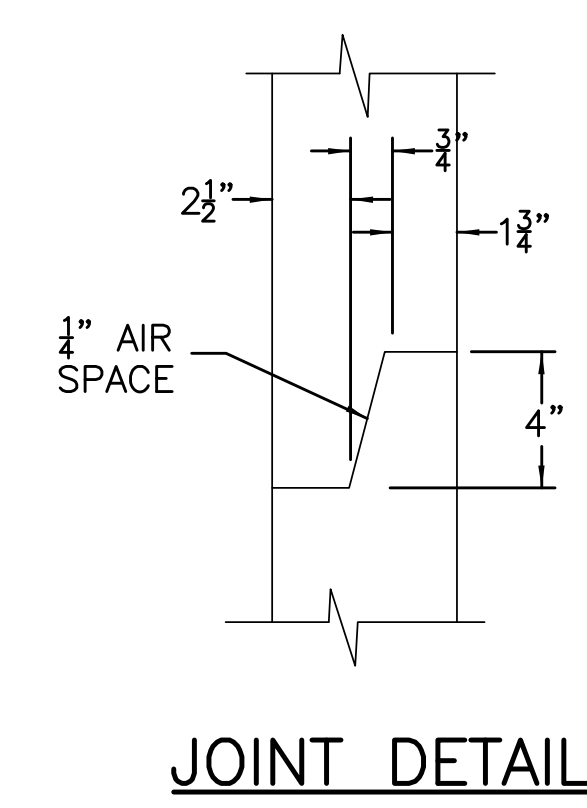
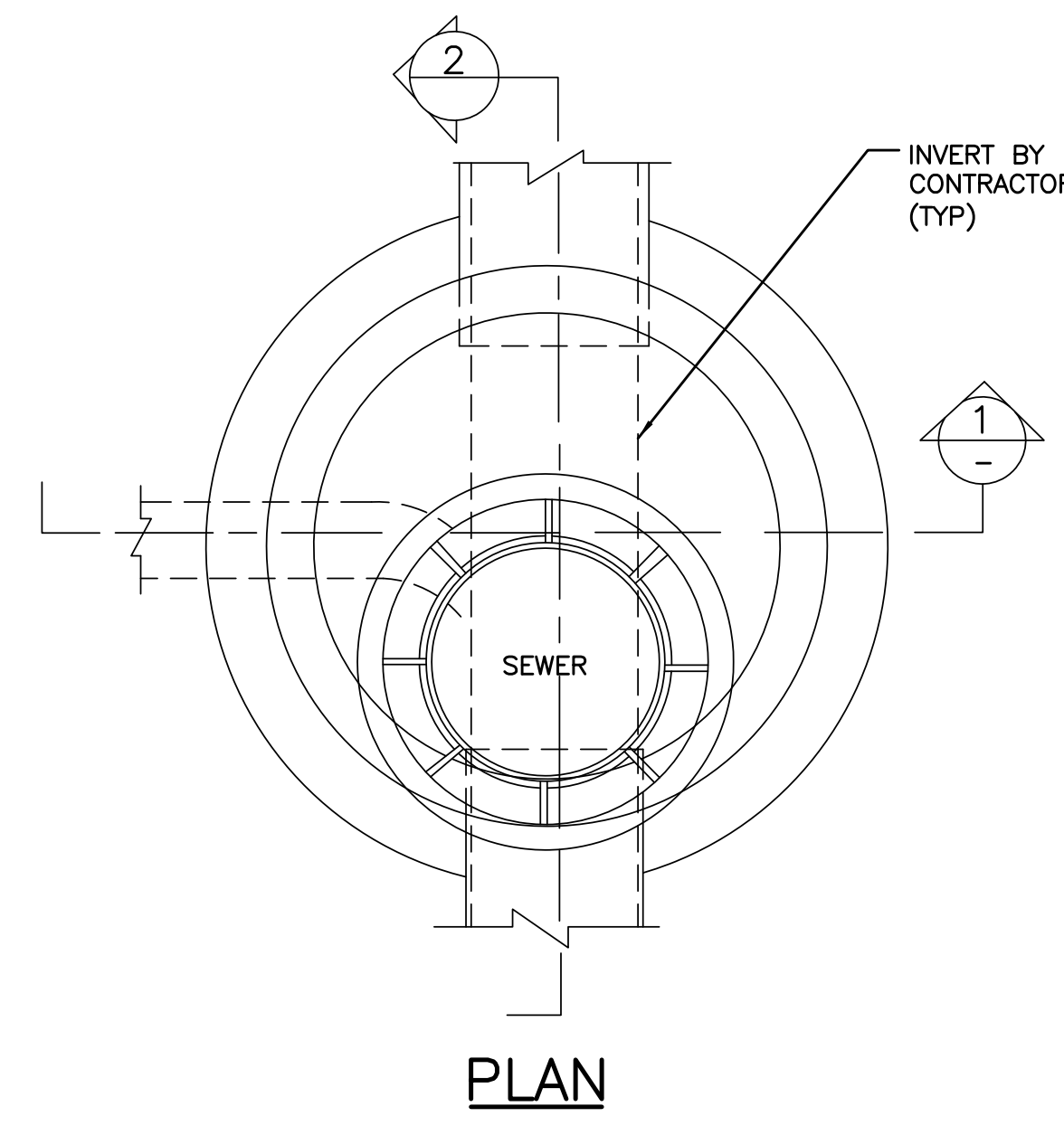
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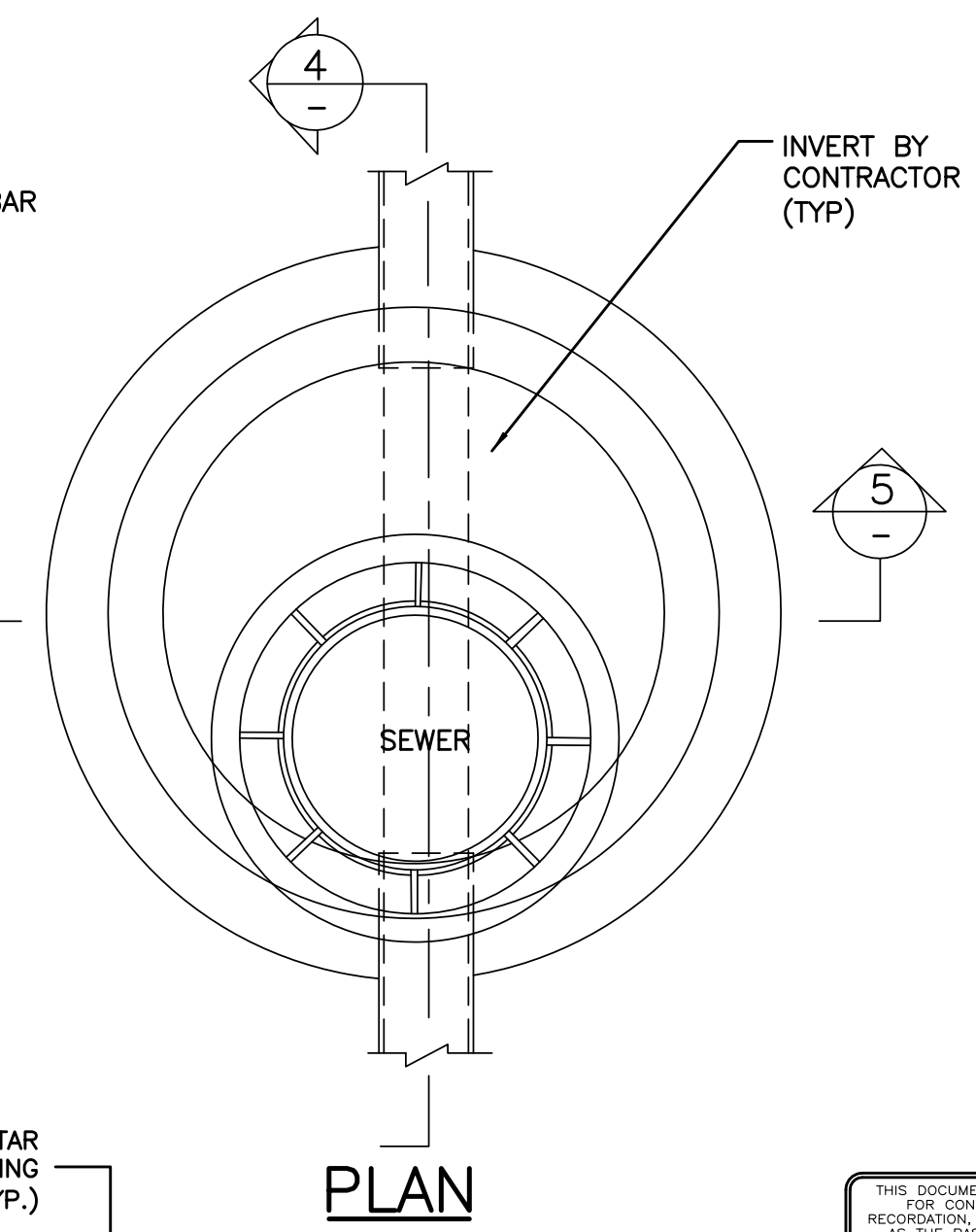
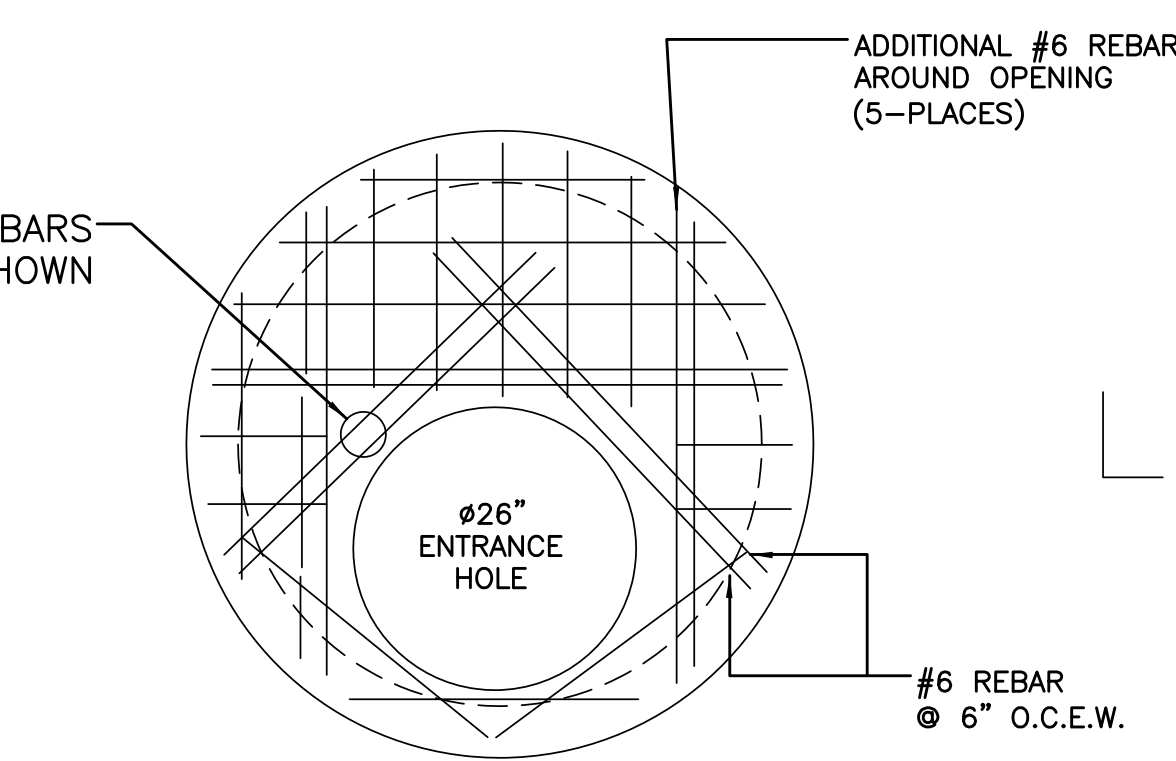
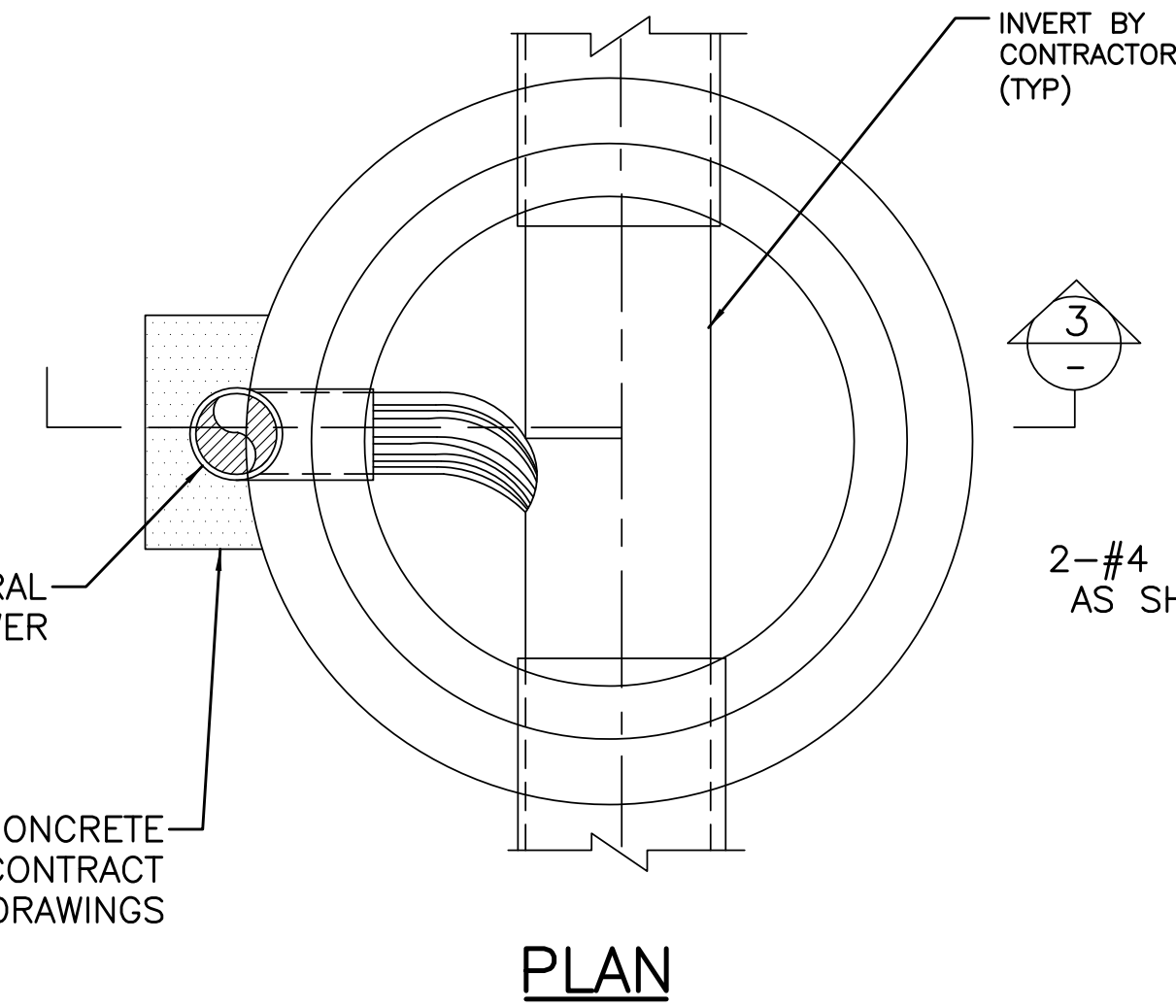


| | |
|------------|----------|
| DRAWN BY | ECS |
| DESIGN BY | WLT |
| CHECKED BY | WLT |
| DATE | 11/29/18 |
| REVISIONS | |
| JOB NO. | 2180194 |
| SHEET NO. | C7.7 |

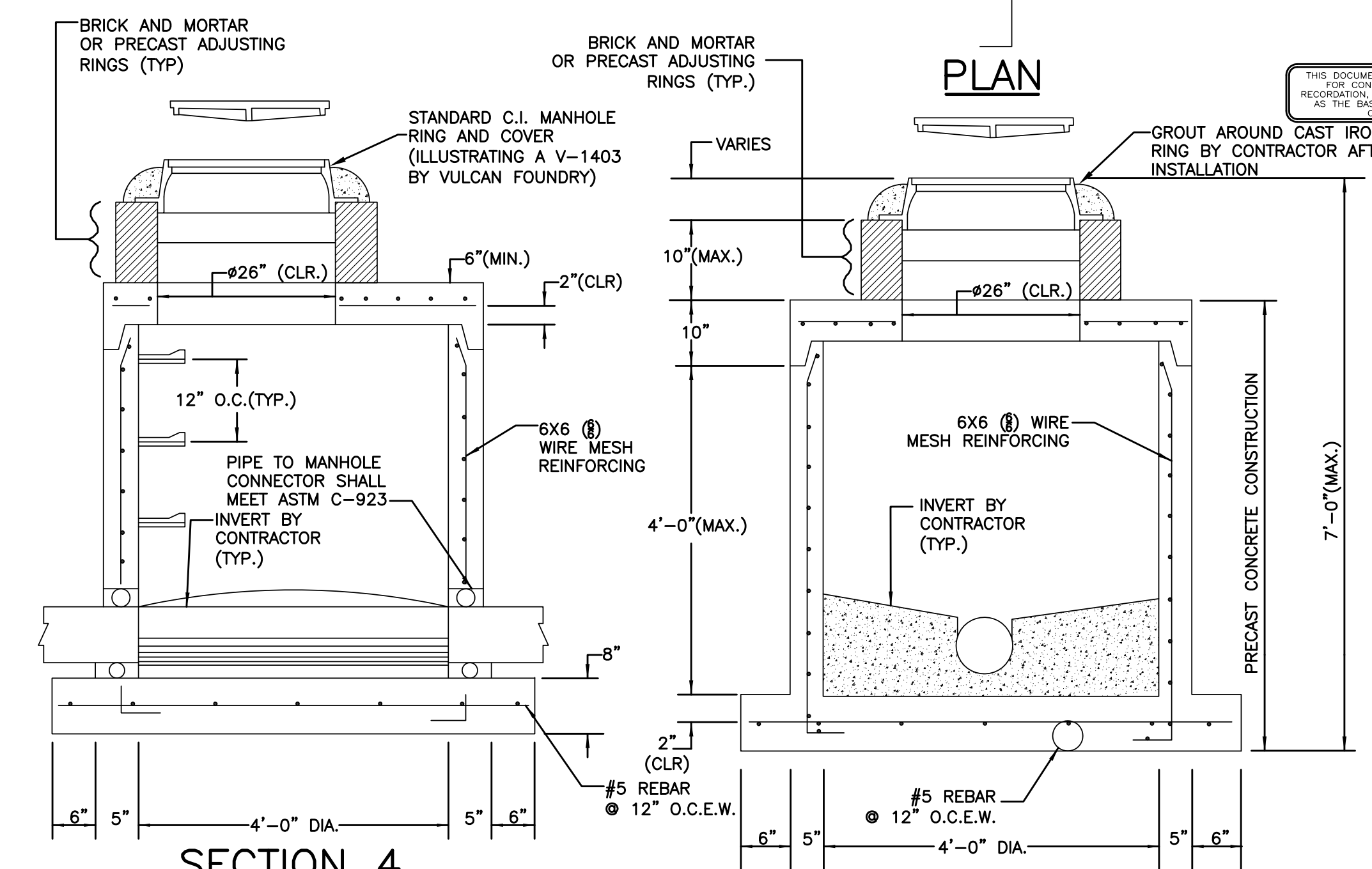
REINFORCING STEEL TO MEET ASTM A-615 GRADE 60.
CONCRETE TO BE 4000 PSI IN 28 DAYS.
REINFORCING TO MEET AASHTO H-20 LOADING
JOINTS BETWEEN PRECAST UNITS TO BE SEALED WITH RAM-NEK
GASKET MATERIAL.
PRECAST CONCRETE STRUCTURE TO MEET ASTM C-478
6"-12" PIPE: USE RESILIENT BOOT CONNECTOR
15" OR LARGER PIPE USE MIN. 2" NON-SHRINK GROUT:
MANHOLES THAT EXCEED 17' IN DEPTH SHALL USE A
10" THICK BASE IN LIEU OF AN 8" THICK BASE.



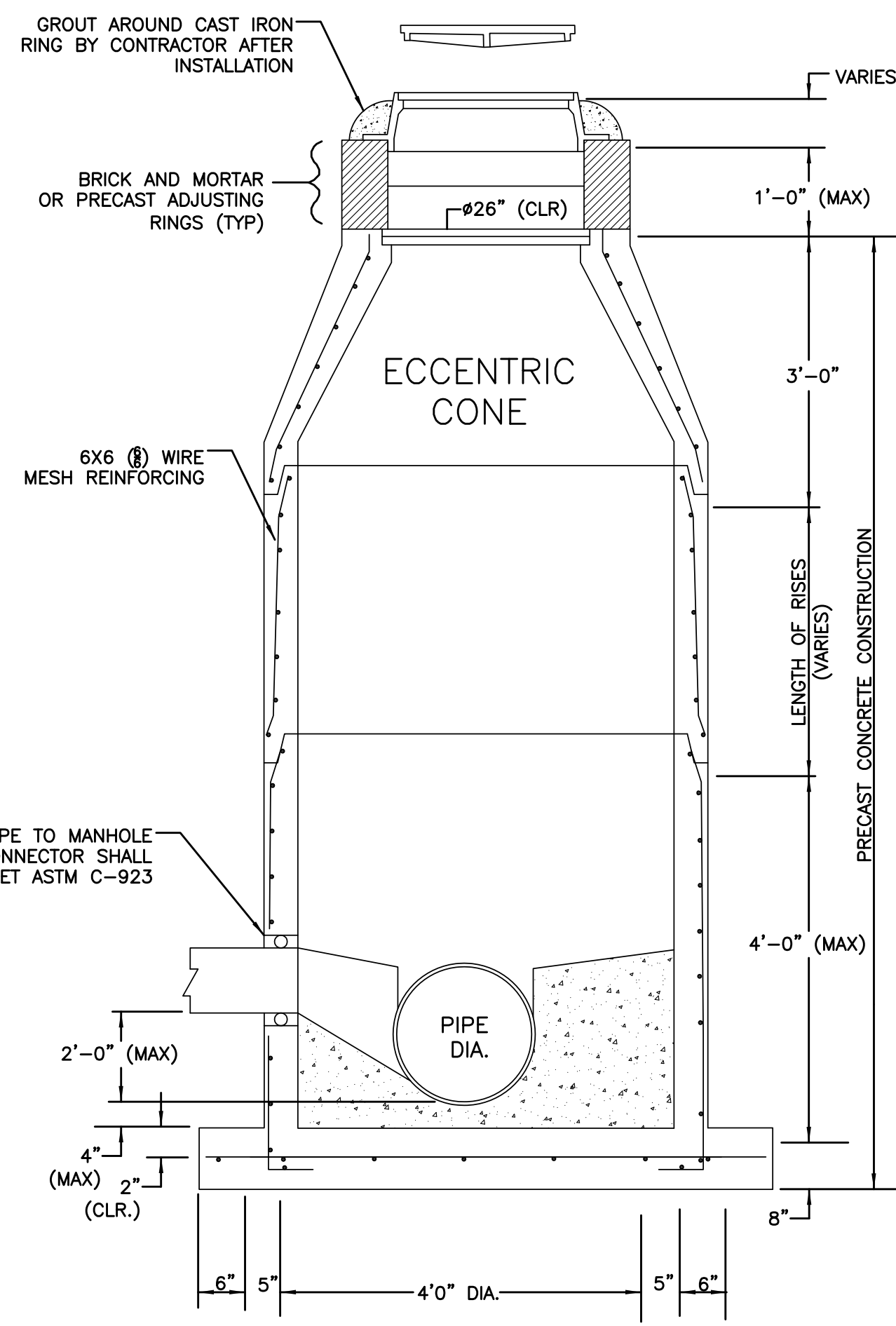
JOINT DETAIL
FOR DETAILS ON CONCRETE
ENCASEMENT SEE CONTRACT
DRAWINGS



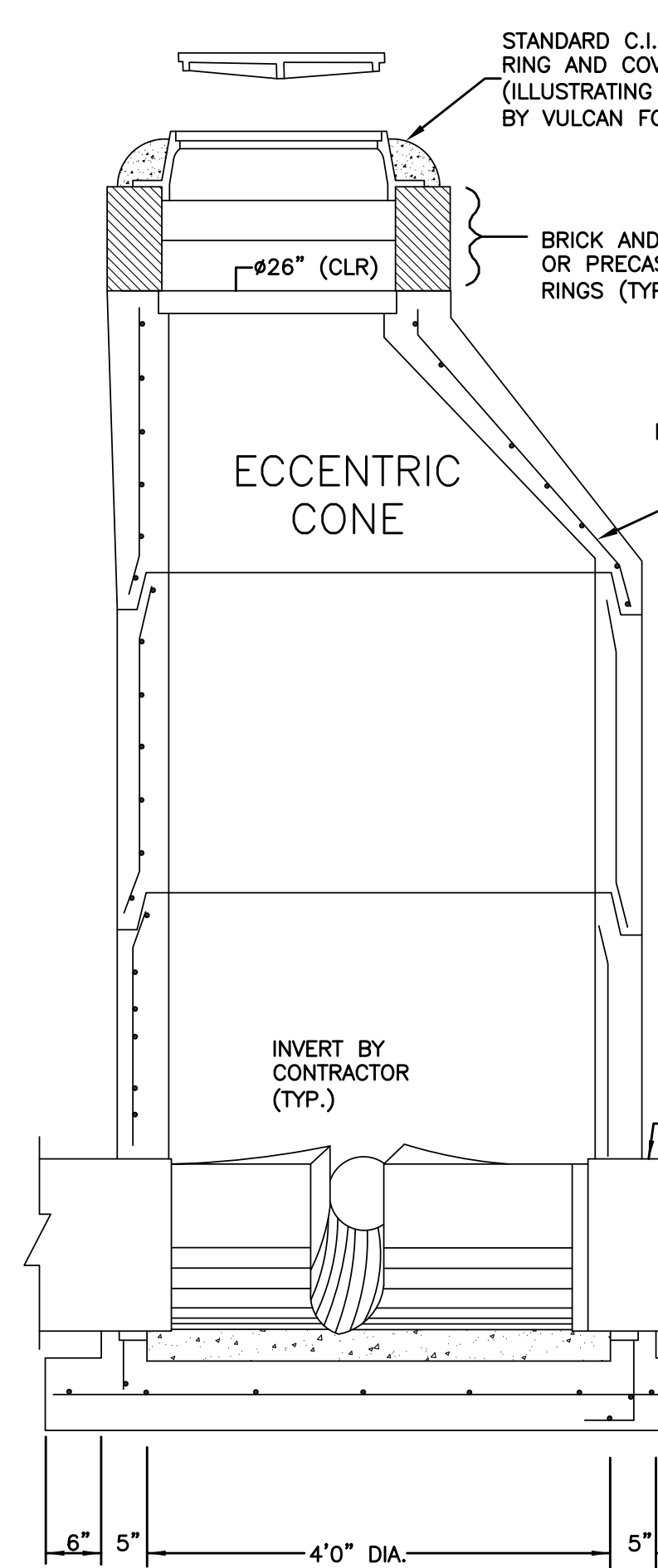
CONCRETE TOP SLAB PLAN



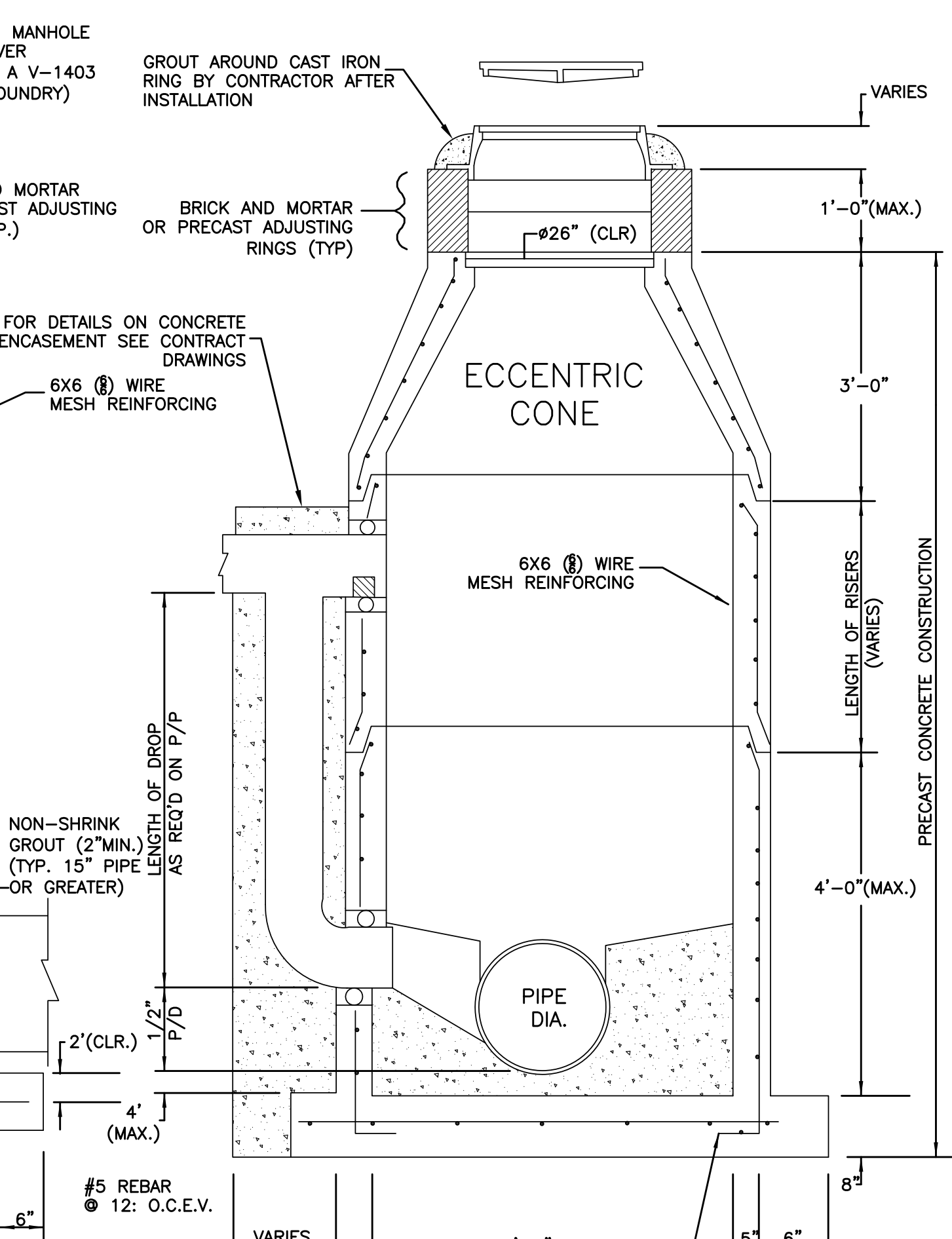
SECTION 4
SECTION 5
STANDARD SHALLOW MANHOLE DETAIL



SECTION 1



SECTION 2



SECTION 3

STANDARD MANHOLE DETAIL (A)

STANDARD DROP MANHOLE DETAIL (B)

WIRE MESH REINF. SHALL BE BENT
NOT LESS THAN 6" UNDER BASE
SLAB REINF.

"THESE PLANS HAVE BEEN PROPERLY EXAMINED BY THE
UNDERSIGNED. I HAVE DETERMINED THAT THEY COMPLY
WITH EXISTING LOCAL LOUISIANA CODES, AND HAVE BEEN
PROPERLY SITE ADAPTED TO USE IN THIS AREA."

PRELIMINARY - FOR PERMIT PURPOSES ONLY