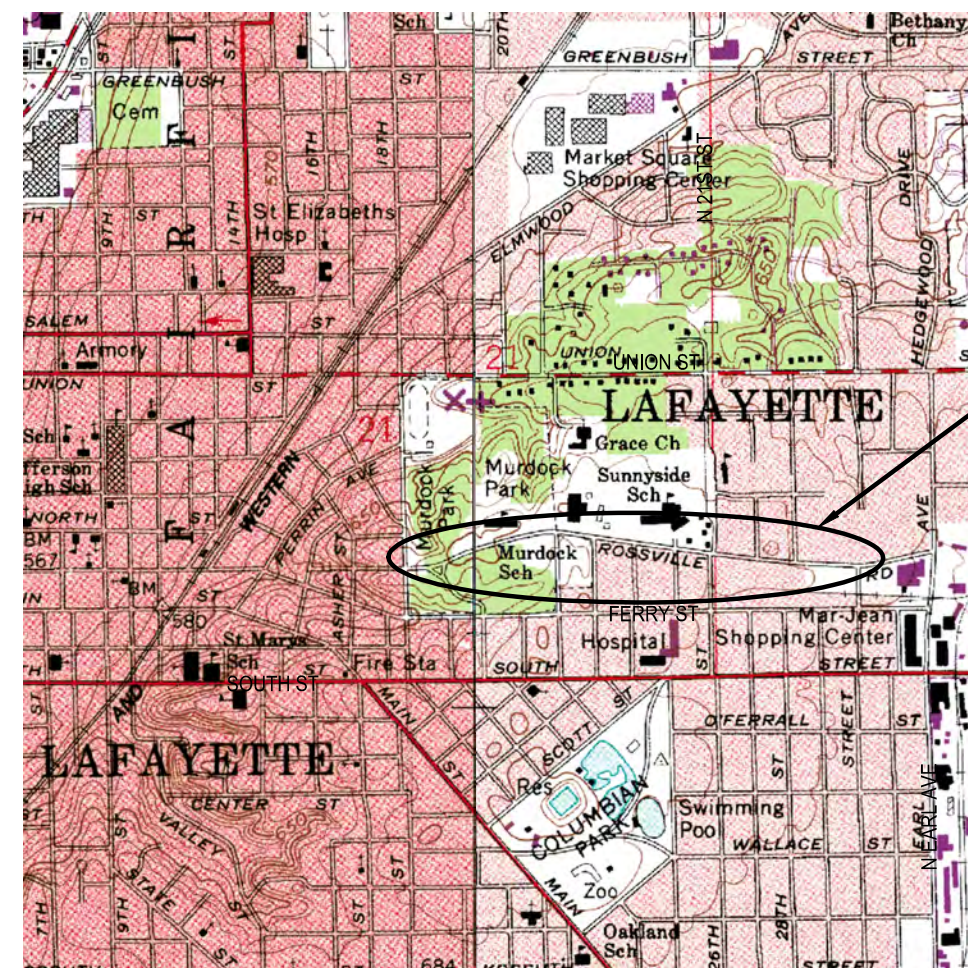
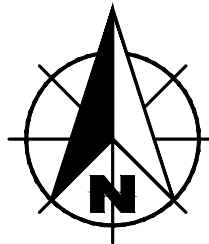


# CASON STREET WATER MAIN EXTENSION

## FOR THE

# LAFAYETTE WATER WORKS



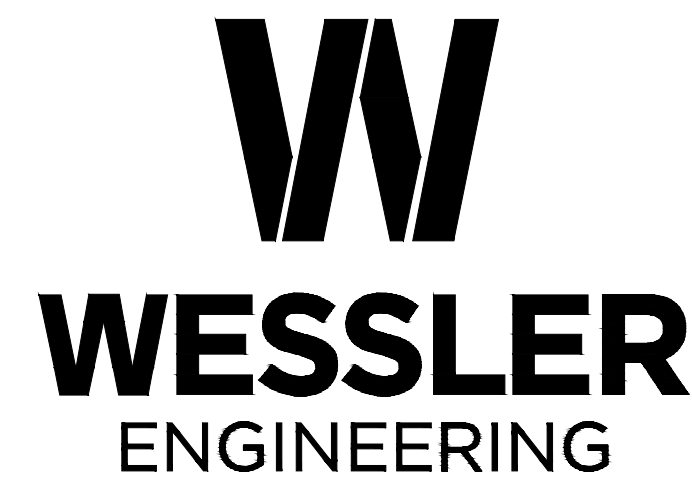
PROJECT LOCATION

LAFAYETTE, INDIANA  
VICINITY MAP  
SCALE: NONE



TIPPECANOE COUNTY

STATE LOCATION MAP  
SCALE: NONE



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INDIANAPOLIS  
6219 South East Street  
Indianapolis, Indiana 46227  
Phone: (317) 788-4551 - Fax: (317) 788-4553  
www.wesslerengineering.com

PROJECT NO. 201918-04-002

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DRAWINGS PREPARED FOR:

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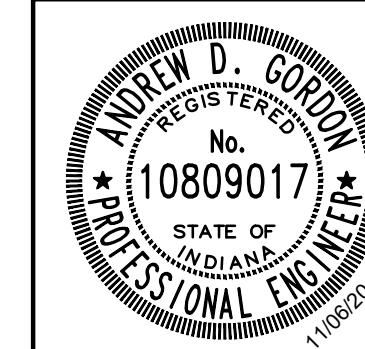
DAWN ROSS, MEMBER

HONORABLE TONY ROSWARSKI, MAYOR

JEROMY GRENARD, CITY ENGINEER

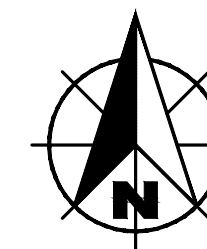
KERRY SMITH, WATER WORKS SUPERINTENDENT

**NOVEMBER 2019**

*Andrew D. Gordon*

ANDREW D GORDON  
REGISTERED ENGINEER STATE OF INDIANA NO. 10809017



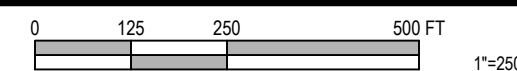
**HORIZONTAL AND VERTICAL CONTROL INFORMATION**


- NOTES:  
 1. A FIELD SURVEY WAS PERFORMED IN NOVEMBER 2018.  
 2. COORDINATES (INDIANA STATE PLANE, WEST ZONE, NAD 83) AND ELEVATIONS (NAVD 88) ARE BASED ON INCORS.  
 3. UNITS ARE U.S. SURVEY FEET.  
 4. CONTROL POINTS WERE SET USING GPS.

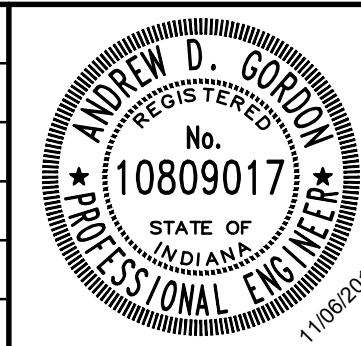
DRAWING INDEX	
SHEET NO.	DESCRIPTION
GENERAL	
01	TITLE SHEET
02	LOCATION PLAN AND INDEX
03	GENERAL SHEET
PLAN AND PROFILE SHEETS	
04 - 05	PLAN AND PROFILE - LINE A - CASON ST
06 - 09	PLAN AND PROFILE - LINE B - CASON ST
ROADWAY REPAIR	
10	ROAD REPAIR - LINE A - CASON ST
11	ROAD REPAIR - LINE A AND LINE B - CASON ST
12 - 13	ROAD REPAIR - LINE B - CASON ST
EROSION CONTROL DETAILS	
14 - 15	EROSION CONTROL DETAILS
MISCELLANEOUS DETAILS	
16 - 18	MISCELLANEOUS DETAILS
MAINTENANCE OF TRAFFIC - DETOUR PLANS	
19	MAINTENANCE OF TRAFFIC - DETOUR PLAN PHASE I
20	MAINTENANCE OF TRAFFIC - DETOUR PLAN PHASE II

CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1884042.26	3011241.37	696.6	5/8" REBAR
2	1884090.58	3011496.10	692.9	5/8" REBAR
3	1883761.57	3011490.82	690.8	5/8" REBAR
4	1884075.13	3011864.88	694.2	5/8" REBAR
5	1883972.45	3010970.59	701.2	5/8" REBAR
6	1883956.24	3010648.78	705.8	5/8" REBAR
7	1883842.52	3010404.06	699.7	5/8" REBAR
8	1883833.78	3010168.07	690.9	5/8" REBAR
9	1883973.80	3012246.12	692.2	5/8" REBAR
10	1883784.44	3014128.15	681.8	5/8" REBAR
11	1883857.93	3013525.34	690.4	5/8" REBAR
12	1883809.06	3013826.58	686.4	5/8" REBAR
13	1883867.00	3013150.31	691.0	5/8" REBAR
14	1883942.98	3012773.53	692.5	5/8" REBAR
15	1883943.99	3012521.12	692.4	5/8" REBAR

**LOCATION AND SCOPE OF WORK PLAN**



SCALE VERIFICATION  BAR IS ONE INCH LONG ON ORIGINAL DRAWING  	DRAWN BY	JRW	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
	CHECKED BY	LHR				
	APPROVED BY	ADG				
	ISSUE DATE	NOVEMBER 2019				
	PROJECT NUMBER	201918-04-002				



**CASON STREET WATER MAIN EXTENSION**

LAFAYETTE WATER WORKS  
LAFAYETTE, INDIANA

**LOCATION PLAN AND INDEX**

SHEET NO.

**02**

TOTAL SHEETS

**20**

EXISTING FEATURES LEGEND

Table with 3 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists various symbols for existing features like benchmarks, easements, utility lines, etc.

\*NOTE: THIS TABLE IS A LISTING OF TYPICAL EXISTING SYMBOLS AND MAY NOT INCLUDE ALL EXISTING SYMBOLS FOUND WITHIN THIS PLAN SET. ALL PROPOSED ITEMS WILL BE CALLED OUT ON THEIR PLAN SHEETS. IF A QUESTION ARISES ON THE MEANING OF ANY SYMBOL NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION. THE SYMBOLS ARE NOT TO SCALE.

TABLE OF ABBREVIATIONS

Table with 4 columns: ABBREVIATION, DESCRIPTION, ABBREVIATION, DESCRIPTION. Lists abbreviations for materials, surveying, and construction terms.

\*NOTE: THIS TABLE IS A LISTING OF TYPICAL ABBREVIATIONS AND MAY NOT INCLUDE ALL ABBREVIATIONS FOUND WITHIN THIS PLAN SET. IF A QUESTION ARISES ON THE MEANING OF AN ABBREVIATION NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION.

GENERAL NOTES:

- 1. NOTIFY THE ENGINEER IF ANY CONFLICTING INFORMATION BECOMES APPARENT IN THE CONTRACT DOCUMENTS AS SOON AS POSSIBLE AND PRIOR TO THE COMMENCEMENT OF ANY WORK IN THE VICINITY OF OR RELATIVE TO THE APPARENT CONFLICT SO THAT CLARIFICATION MAY OCCUR PRIOR TO CONSTRUCTION. ANY ALTERATIONS TO THESE DRAWINGS NOT AUTHORIZED BY WESSLER ENGINEERING AND NOT IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS AND RECORDS ON FILE AT WESSLER ENGINEERING SHALL RELIEVE WESSLER ENGINEERING OF ANY RESPONSIBILITY FOR THE ACCURACY OF THE DRAWINGS.

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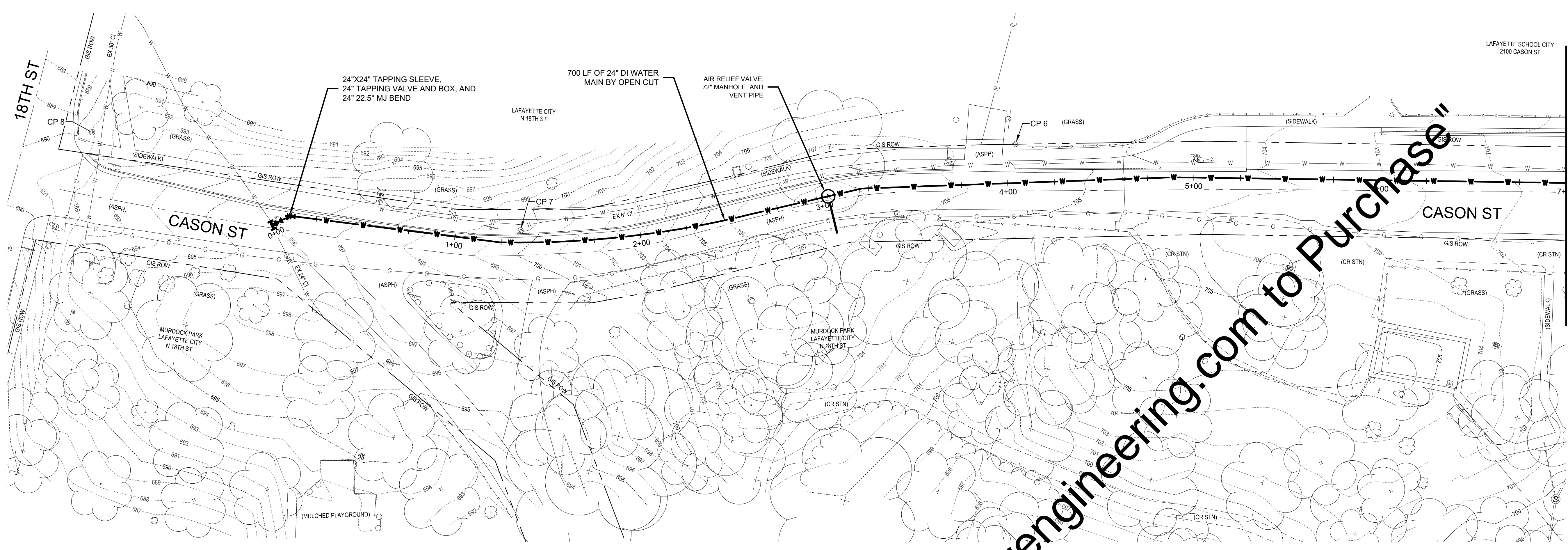
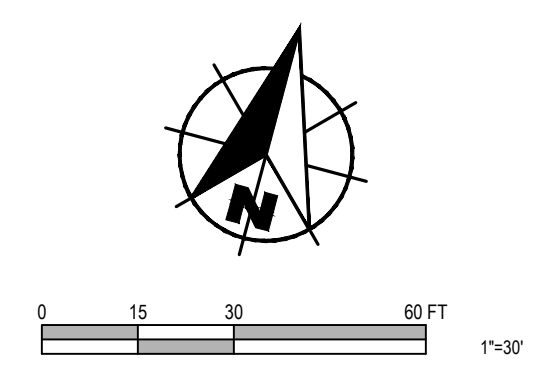


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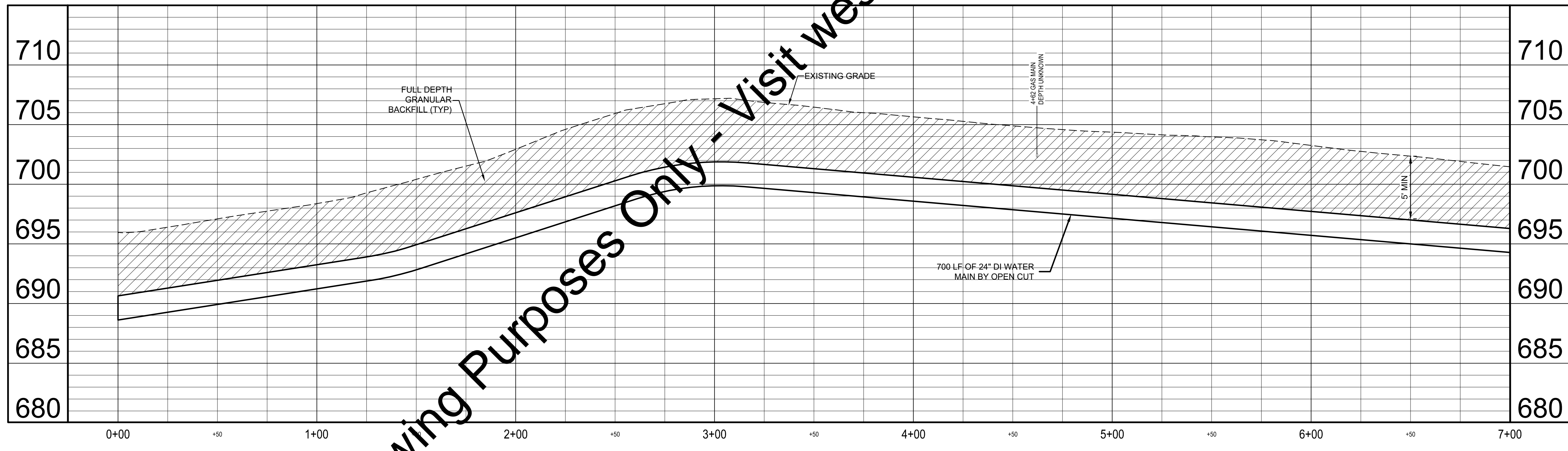
UTILITY CONTACTS

Table listing utility contacts for Cable TV, Electric, Fiber, Natural Gas, Telephone, and Water.

Project information section including Scale Verification, Drawn By (JRW), Checked By (LHR), Approved By (ADG), Issue Date (November 2019), Project Number (201918-04-002), Wessler Engineering logo, Project Title (Cason Street Water Main Extension), and Sheet Number (03 of 20).



PLAN - LINE A  
SCALE: 1" = 30'



PROFILE - LINE A  
HORIZ SCALE: 1" = 30'  
VERT SCALE: 1" = 5'

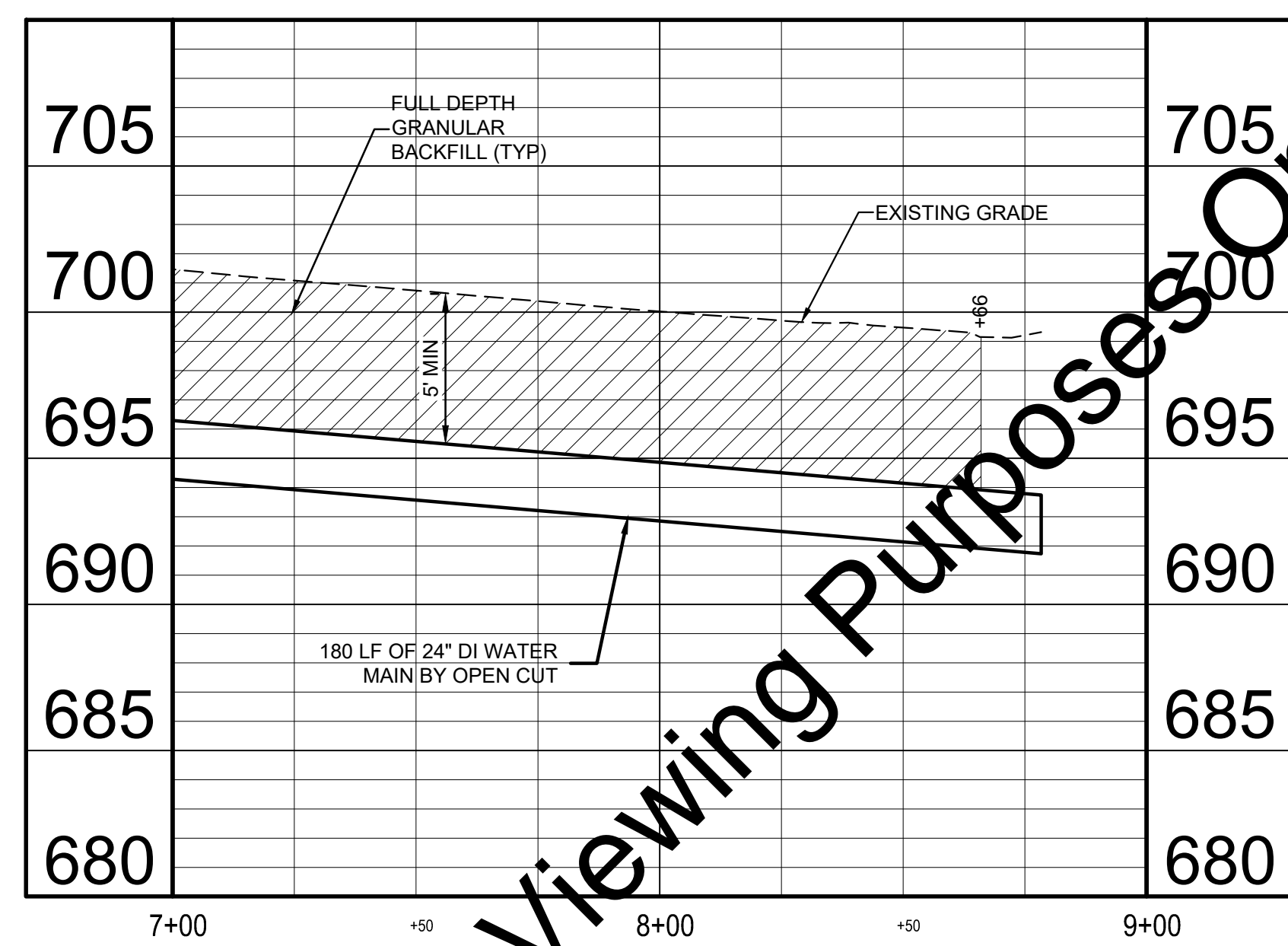
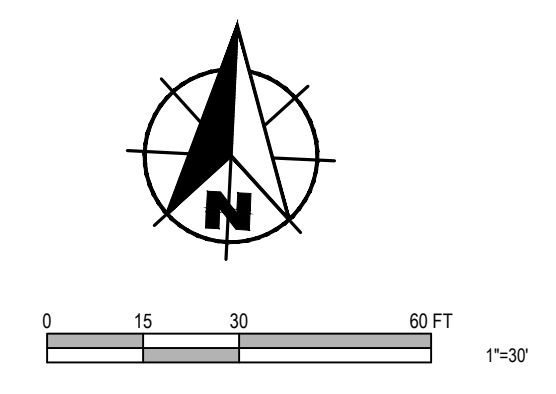
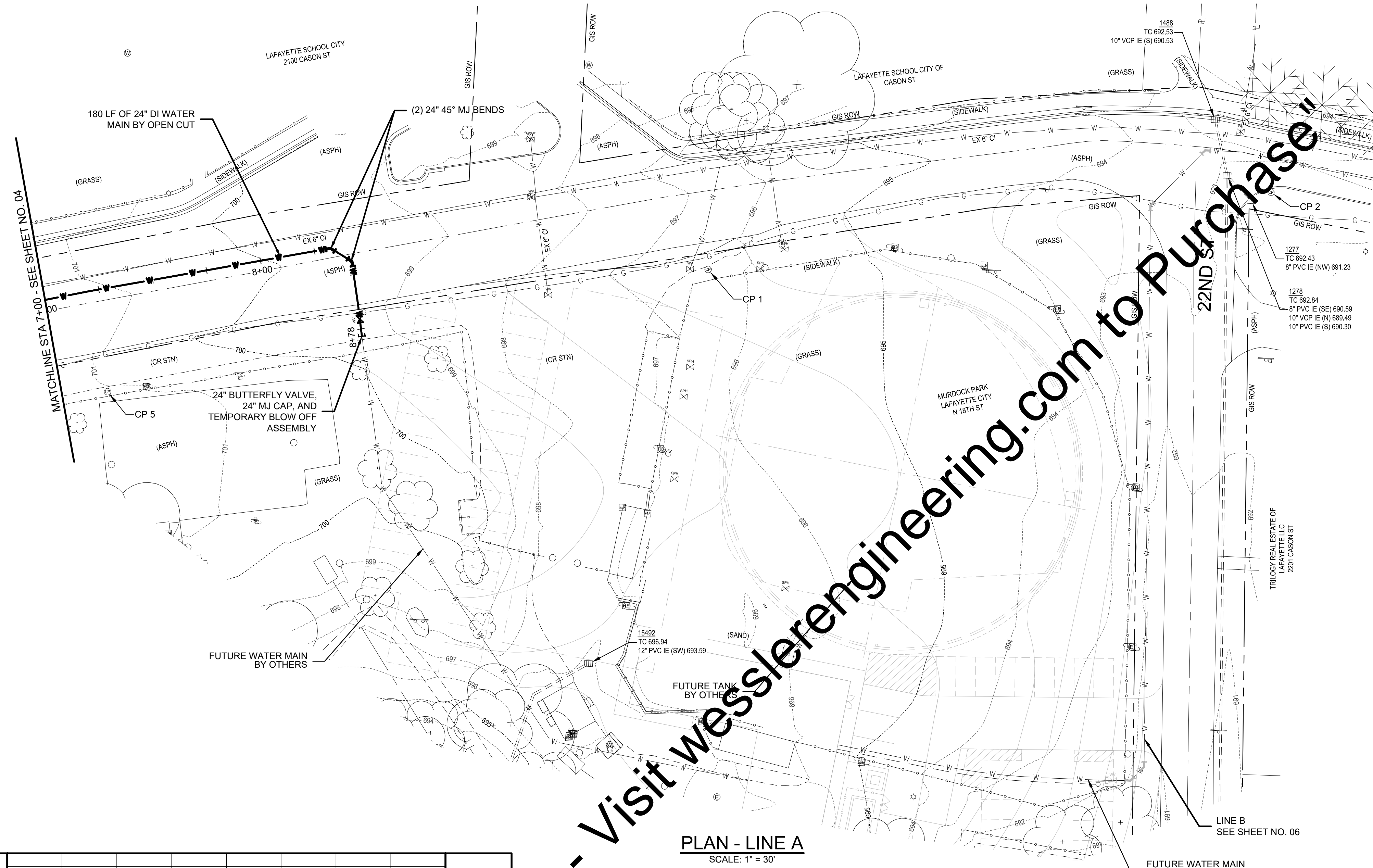
**KEYED NOTES**

- I INLET PROTECTION
- R<sub>1</sub> CLOSE EXISTING VALVE AND REMOVE VALVE BOX AND LID.
- R<sub>2</sub> REMOVE EXISTING METER PIT AND APPURTENANCES.
- S RELOCATE EXISTING METER PIT AND SERVICE LINE, RECONNECT.
- X POTENTIAL SEWER CONFLICT FIELD VERIFY PRIOR TO CONSTRUCTION

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	CHECKED BY	LHR							LAFAYETTE WATER WORKS LAFAYETTE, INDIANA	04
	APPROVED BY	ADG							<b>PLAN AND PROFILE - LINE A - CASON ST</b>	TOTAL SHEETS
	ISSUE DATE	NOVEMBER 2019								20
PROJECT NUMBER	201918-04-002									



**PROFILE - LINE A**  
 HORIZ SCALE: 1" = 30'  
 VERT SCALE: 1" = 5'

**PLAN - LINE A**  
 SCALE: 1" = 30'

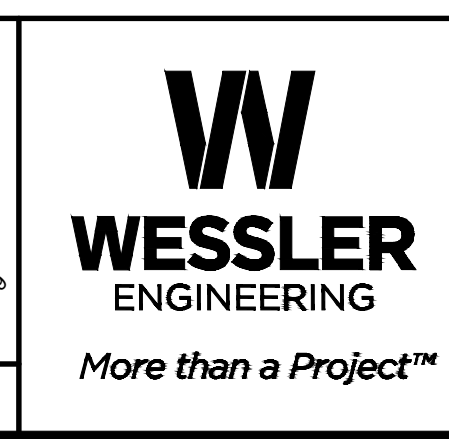
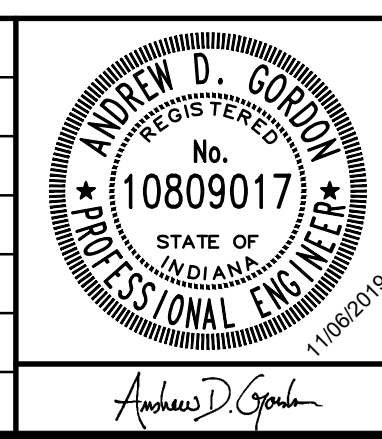
- NOTES:
- COORDINATE WITH OWNER'S CONTRACTOR FOR CONNECTION OF WATER MAIN SHOWN ON THIS SHEET.
  - MARK END OF WATER MAIN WITH PRESSURE TREATED WOOD POST.

**KEYED NOTES**

- I INLET PROTECTION
- R<sub>1</sub> CLOSE EXISTING VALVE AND REMOVE VALVE BOX AND LID.
- R<sub>2</sub> REMOVE EXISTING METER PIT AND APPURTENANCES.
- S RELOCATE EXISTING METER PIT AND SERVICE LINE, RECONNECT.
- X POTENTIAL SEWER CONFLICT FIELD VERIFY PRIOR TO CONSTRUCTION

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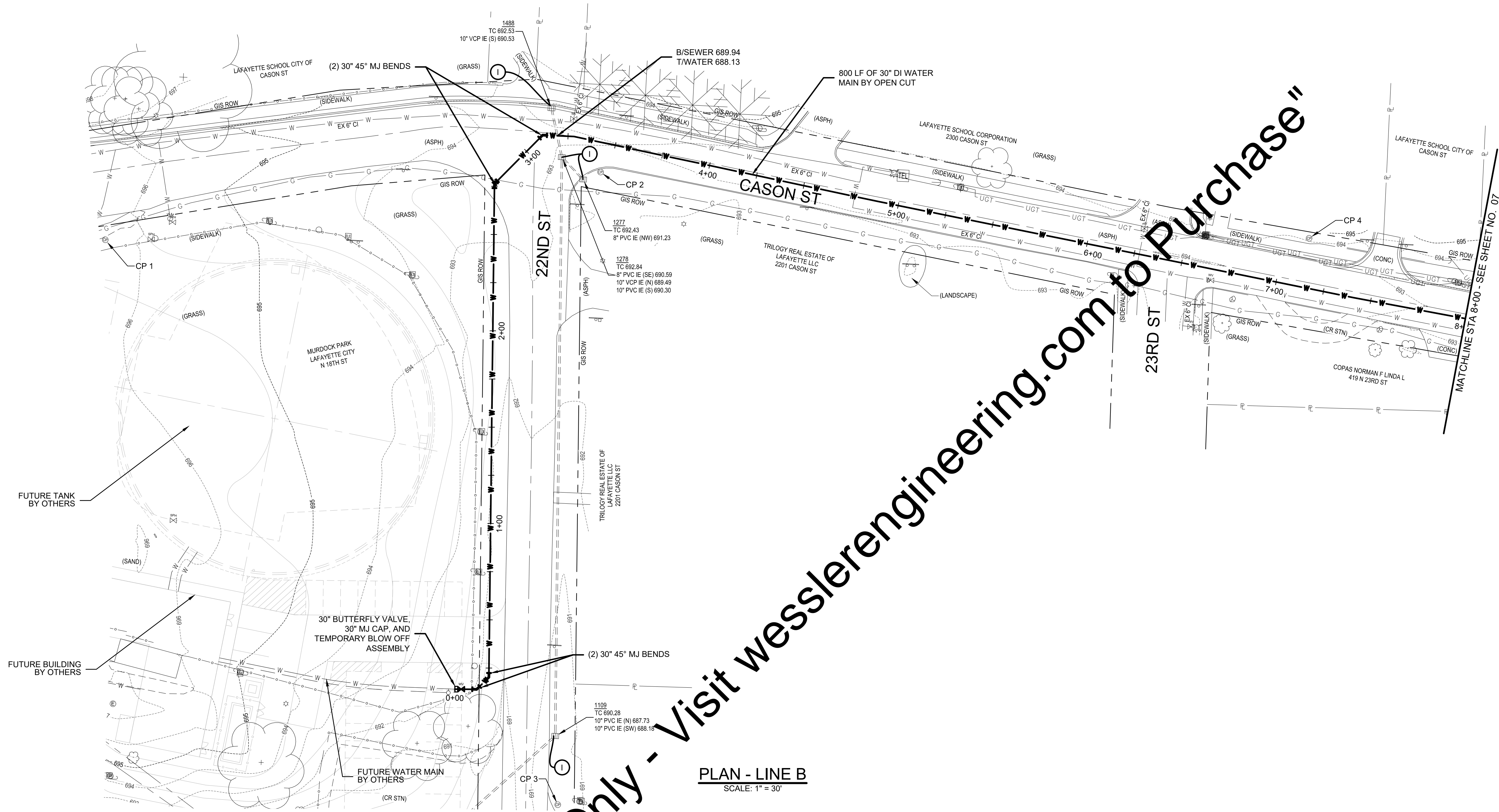
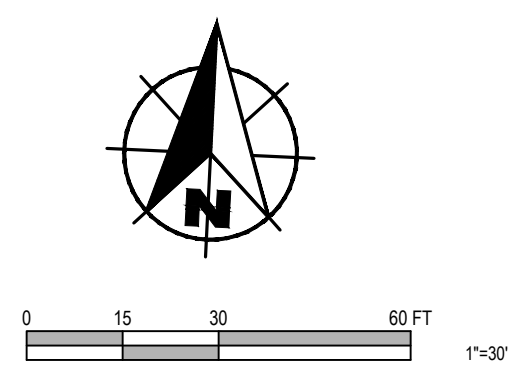
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	ISSUE DATE	NOVEMBER 2019				
	PROJECT NUMBER	201918-04-002				



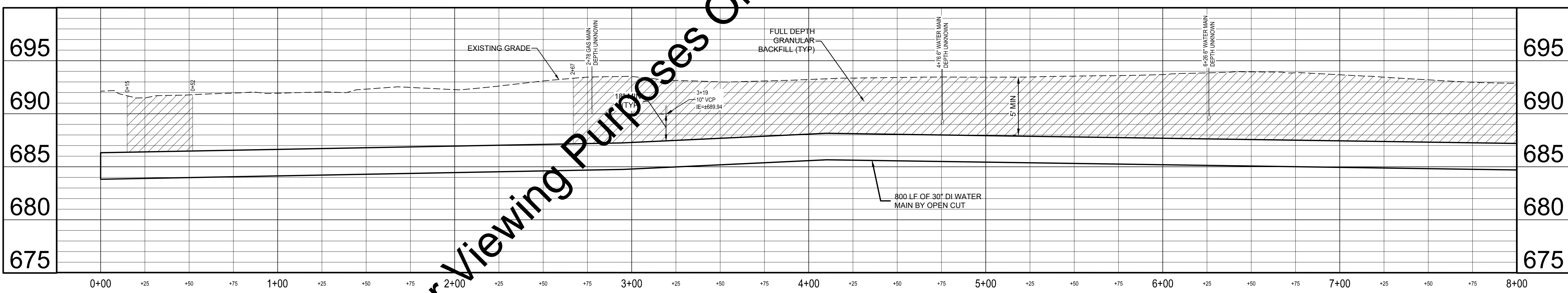
**CASON STREET WATER MAIN EXTENSION**  
 LAFAYETTE WATER WORKS  
 LAFAYETTE, INDIANA

**PLAN AND PROFILE - LINE A - CASON ST**

SHEET NO.	<b>05</b>
TOTAL SHEETS	<b>20</b>



PLAN - LINE B  
SCALE: 1" = 30'



PROFILE - LINE B  
HORIZ SCALE: 1" = 30'  
VERT SCALE: 1" = 5'

- NOTES:
- COORDINATE WITH OWNER'S CONTRACTOR FOR CONNECTION OF WATER MAIN SHOWN ON THIS SHEET.
  - MARK END OF WATER MAIN WITH PRESSURE TREATED WOOD POST.

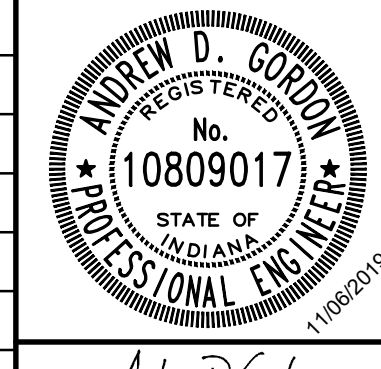
**KEYED NOTES**


- I INLET PROTECTION
- R<sub>1</sub> CLOSE EXISTING VALVE AND REMOVE VALVE BOX AND LID.
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- S RELOCATE EXISTING METER PIT AND SERVICE LINE, RECONNECT.
- X POTENTIAL SEWER CONFLICT FIELD VERIFY PRIOR TO CONSTRUCTION

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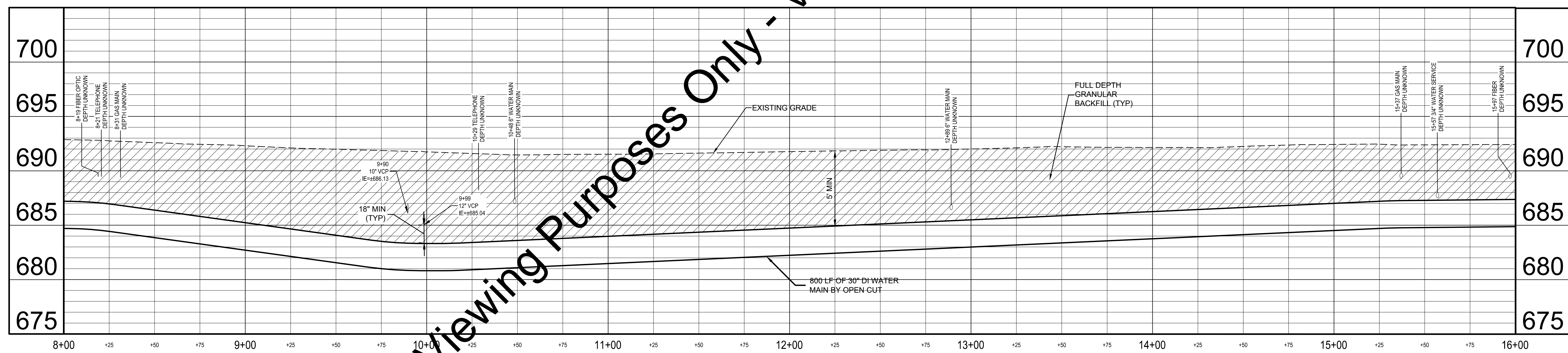
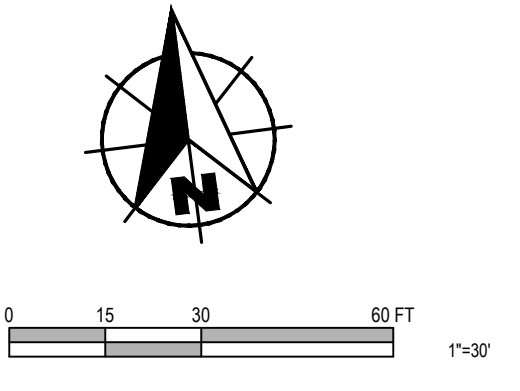
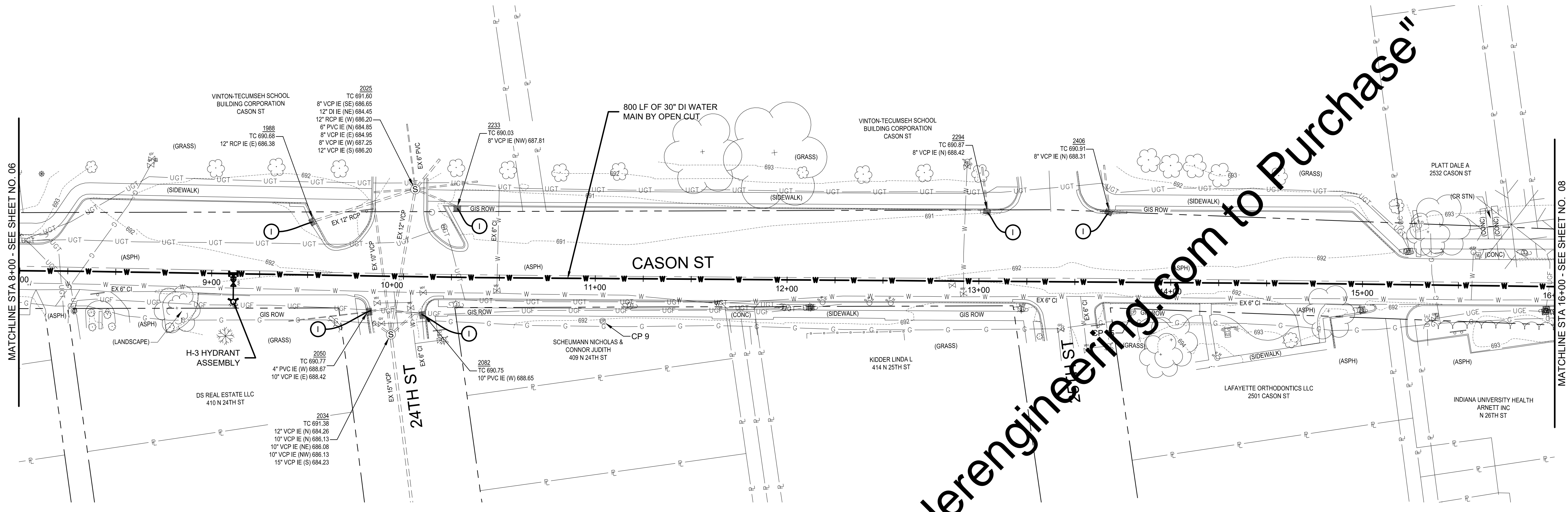
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	APPROVED BY	ADG				
	ISSUE DATE	NOVEMBER 2019				
PROJECT NUMBER		201918-04-002				





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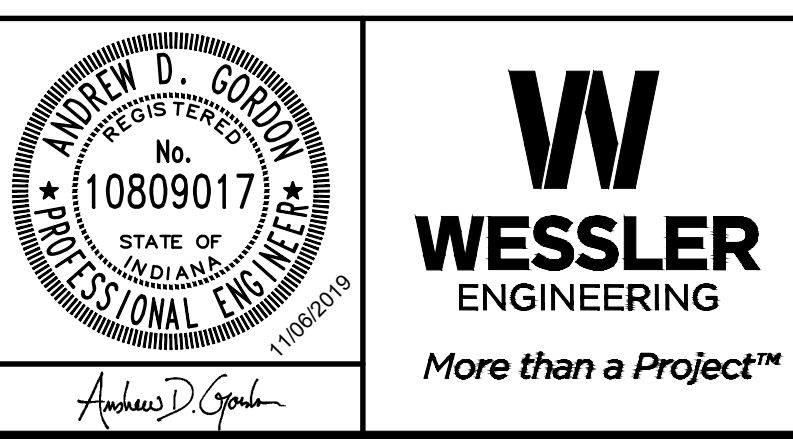
<b>CASON STREET WATER MAIN EXTENSION</b>		SHEET NO.
LAFAYETTE WATER WORKS LAFAYETTE, INDIANA		<b>06</b>
<b>PLAN AND PROFILE - LINE B - CASON ST</b>		TOTAL SHEETS
		<b>20</b>



- KEYED NOTES**
- I INLET PROTECTION
  - R<sub>1</sub> CLOSE EXISTING VALVE AND REMOVE VALVE BOX AND LID.
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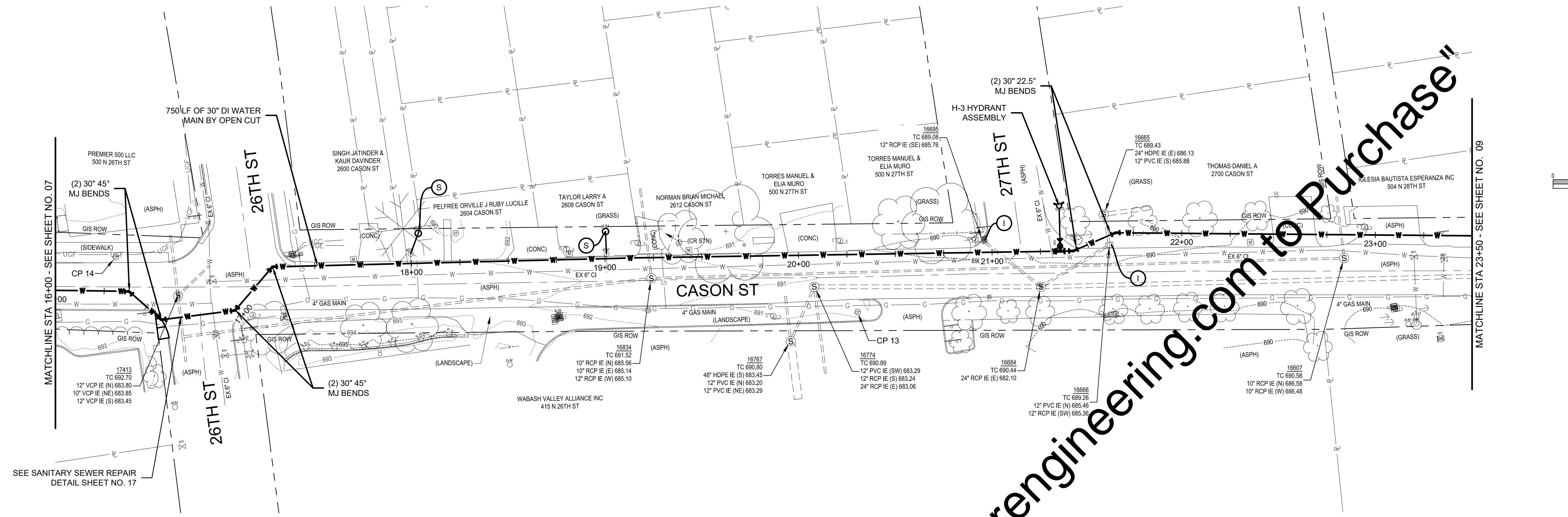
**CASON STREET WATER MAIN EXTENSION**

LAFAYETTE WATER WORKS  
LAFAYETTE, INDIANA

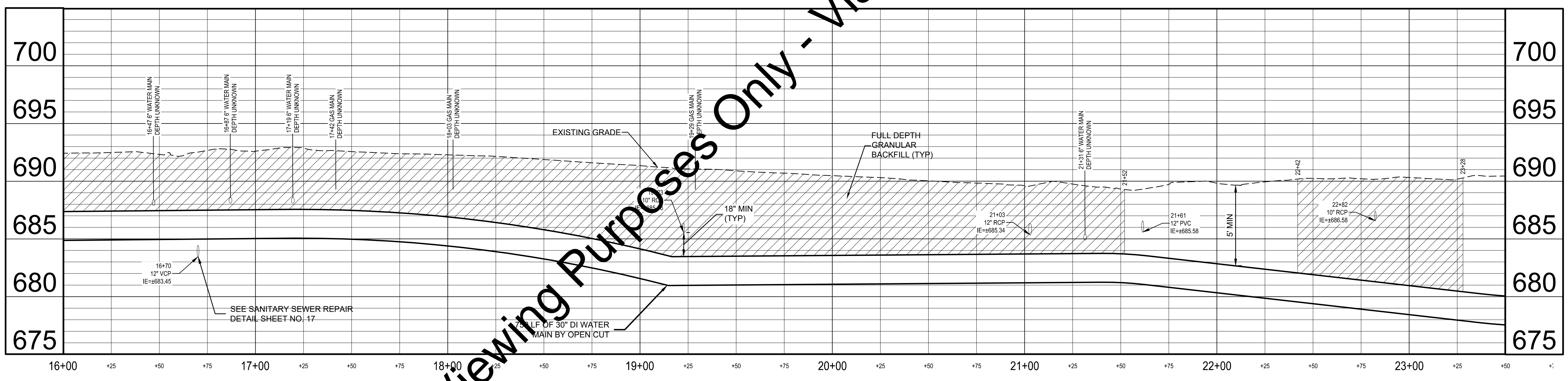
**PLAN AND PROFILE - LINE B - CASON ST**

SHEET NO.  
**07**  
TOTAL SHEETS  
**20**

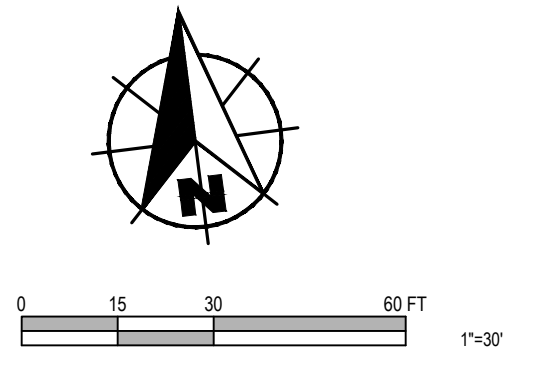
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PLAN - LINE B  
SCALE: 1" = 30'



PROFILE - LINE B  
HORIZ SCALE: 1" = 30'  
VERT SCALE: 1" = 5'

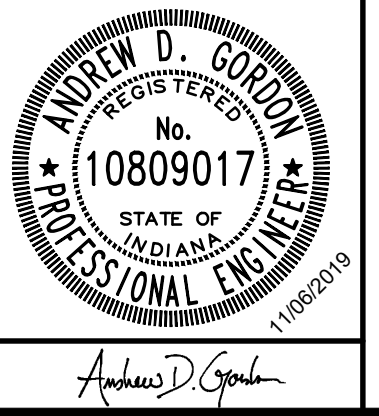


**KEYED NOTES**

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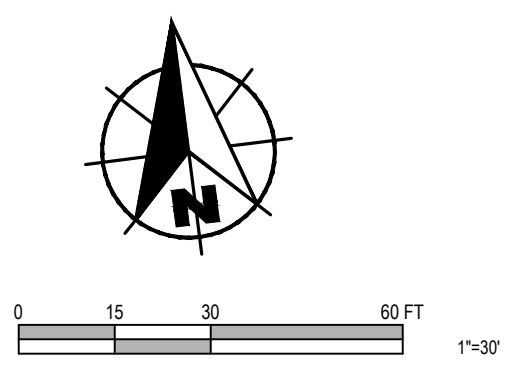
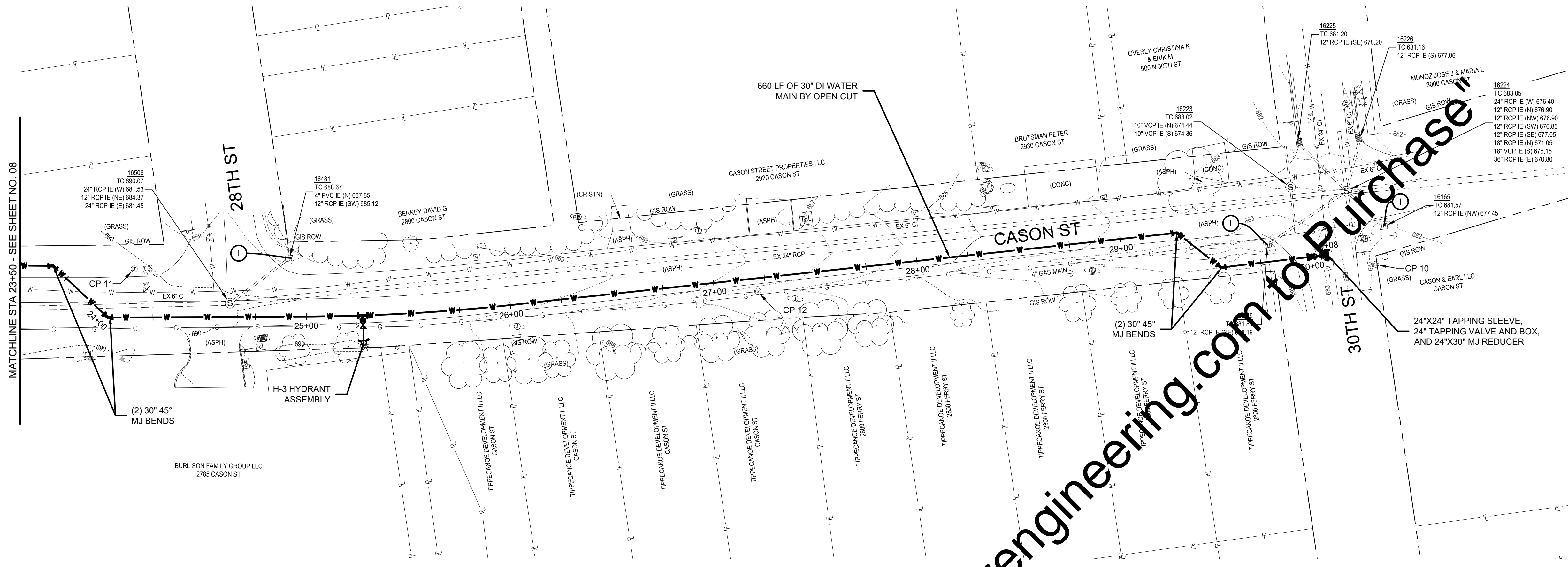
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	PROJECT NUMBER	201918-04-002				



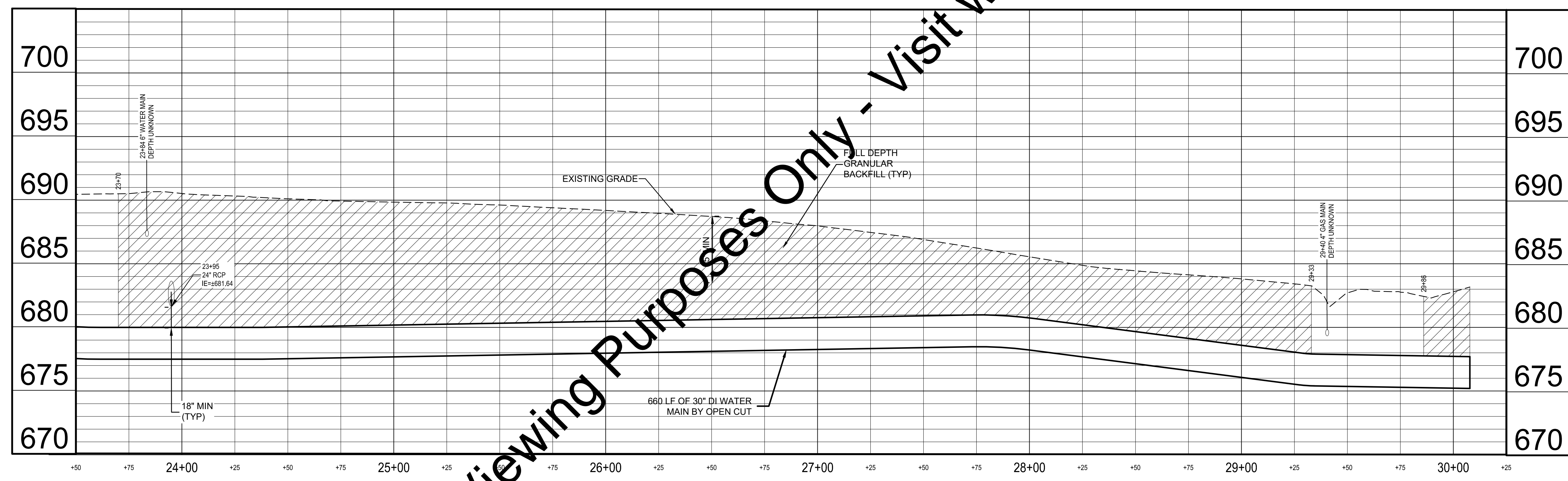
**CASON STREET WATER MAIN EXTENSION**  
LAFAYETTE WATER WORKS  
LAFAYETTE, INDIANA  
**PLAN AND PROFILE - LINE B - CASON ST**

SHEET NO.  
**08**  
TOTAL SHEETS  
**20**





PLAN - LINE B  
SCALE: 1" = 30'



PROFILE - LINE B  
HORIZ SCALE: 1" = 30'  
VERT SCALE: 1" = 5'

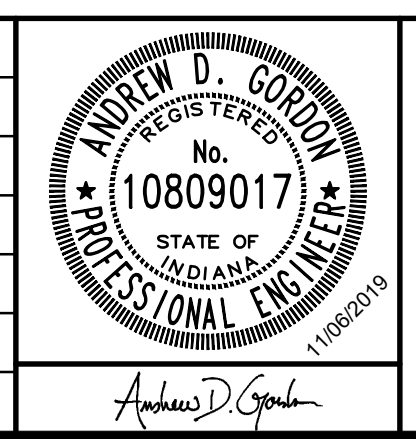
**KEYED NOTES**

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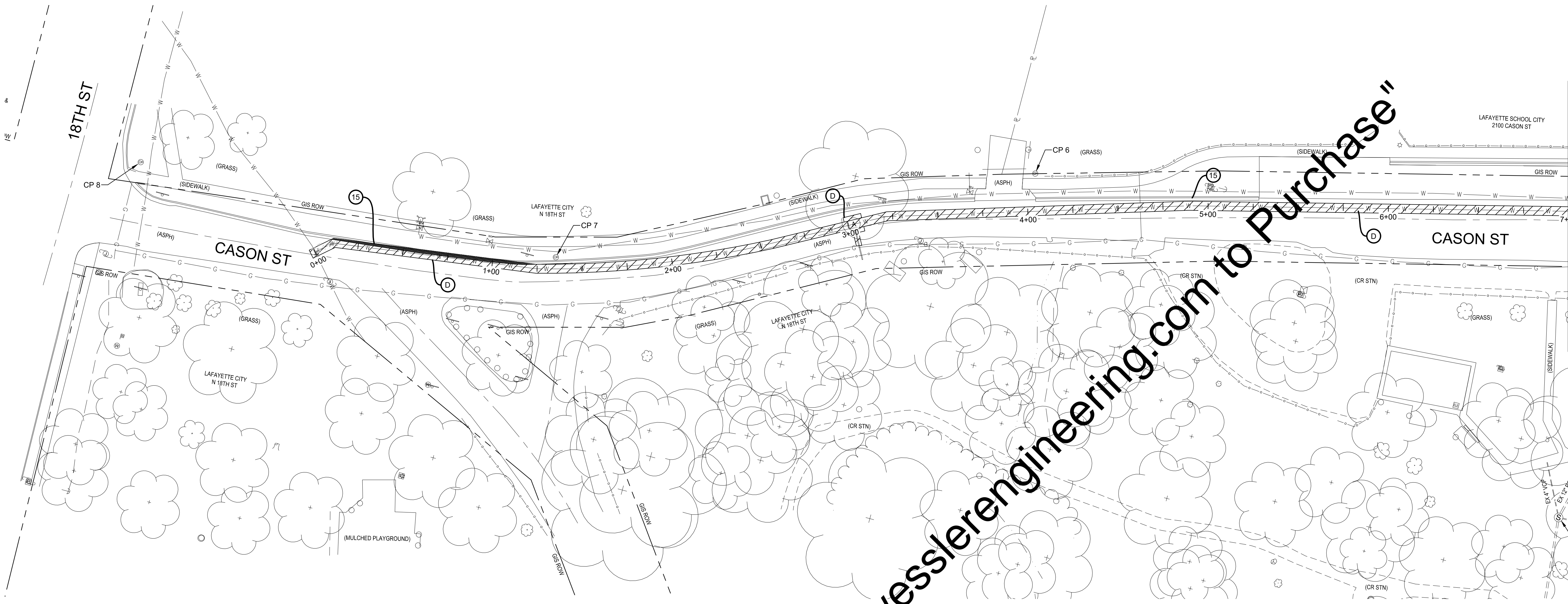
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	APPROVED BY	ADG				
	ISSUE DATE	NOVEMBER 2019				
	PROJECT NUMBER	201918-04-002				



**CASON STREET WATER MAIN EXTENSION**  
LAFAYETTE WATER WORKS  
LAFAYETTE, INDIANA

**PLAN AND PROFILE - LINE B - CASON ST**

SHEET NO.	<b>09</b>
TOTAL SHEETS	<b>20</b>



PLAN - LINE A  
SCALE: 1" = 30'

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**KEYED NOTES**

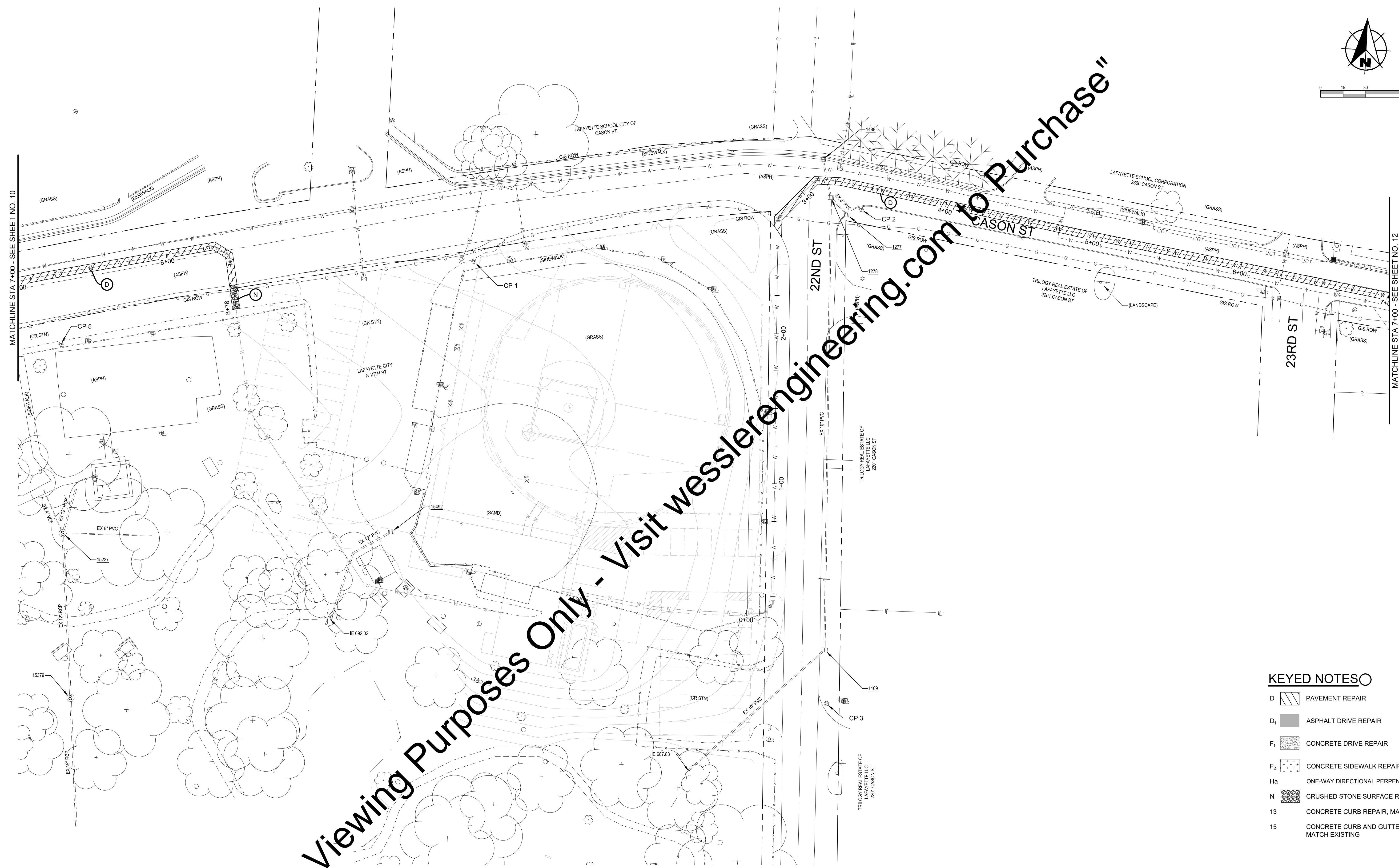
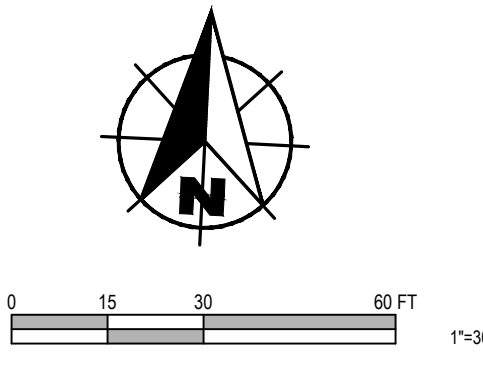
- D PAVEMENT REPAIR
- D1 ASPHALT DRIVE REPAIR
- F1 CONCRETE DRIVE REPAIR
- F2 CONCRETE SIDEWALK REPAIR
- Ha ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP
- N CRUSHED STONE SURFACE REPAIR
- 13 CONCRETE CURB REPAIR, MATCH EXISTING
- 15 CONCRETE CURB AND GUTTER REPAIR, MATCH EXISTING

Drawing: J:\Lafayette\Projects\201918 Lafayette Murdock Park\CAD 04-002\DWG\Sheets\201918-TP.dwg | Layout: 01 | Plotted: 11/13/19 @ 01:50:31 | Last Saved By: Jason W

<p>SCALE VERIFICATION</p> <p>BAR IS ONE INCH LONG ON ORIGINAL DRAWING</p>	<p>DRAWN BY: JRW</p> <p>CHECKED BY: LHR</p> <p>APPROVED BY: ADG</p> <p>ISSUE DATE: NOVEMBER 2019</p> <p>PROJECT NUMBER: 201918-04-002</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>INITIALS</th> <th>REVISION DESCRIPTIONS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	INITIALS	REVISION DESCRIPTIONS														<p><b>WESSLER ENGINEERING</b></p> <p><i>More than a Project™</i></p>
NO.	DATE	INITIALS	REVISION DESCRIPTIONS																	

<p><b>CASON STREET WATER MAIN EXTENSION</b></p> <p>LAFAYETTE WATER WORKS LAFAYETTE, INDIANA</p> <p><b>ROAD REPAIR - LINE A - CASON ST</b></p>
---

<p>SHEET NO.</p> <p style="font-size: 2em;"><b>10</b></p> <p>TOTAL SHEETS</p> <p style="font-size: 2em;"><b>20</b></p>
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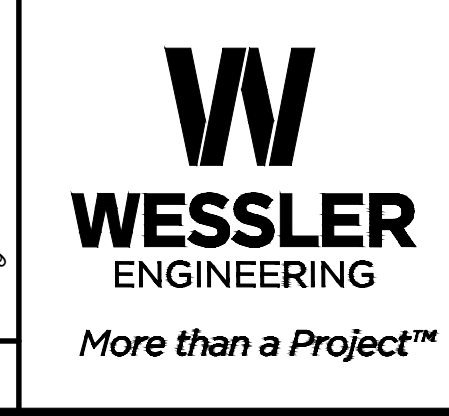
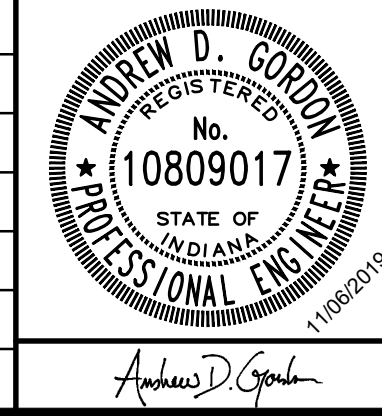
PLAN - LINE A  
SCALE: 1" = 30'

PLAN - LINE B  
SCALE: 1" = 30'

**KEYED NOTES**

- D PAVEMENT REPAIR
- D<sub>1</sub> ASPHALT DRIVE REPAIR
- F<sub>1</sub> CONCRETE DRIVE REPAIR
- F<sub>2</sub> CONCRETE SIDEWALK REPAIR
- Ha ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP
- N CRUSHED STONE SURFACE REPAIR
- 13 CONCRETE CURB REPAIR, MATCH EXISTING
- 15 CONCRETE CURB AND GUTTER REPAIR, MATCH EXISTING

SCALE VERIFICATION	DRAWN BY	JRW	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
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	APPROVED BY	ADG				
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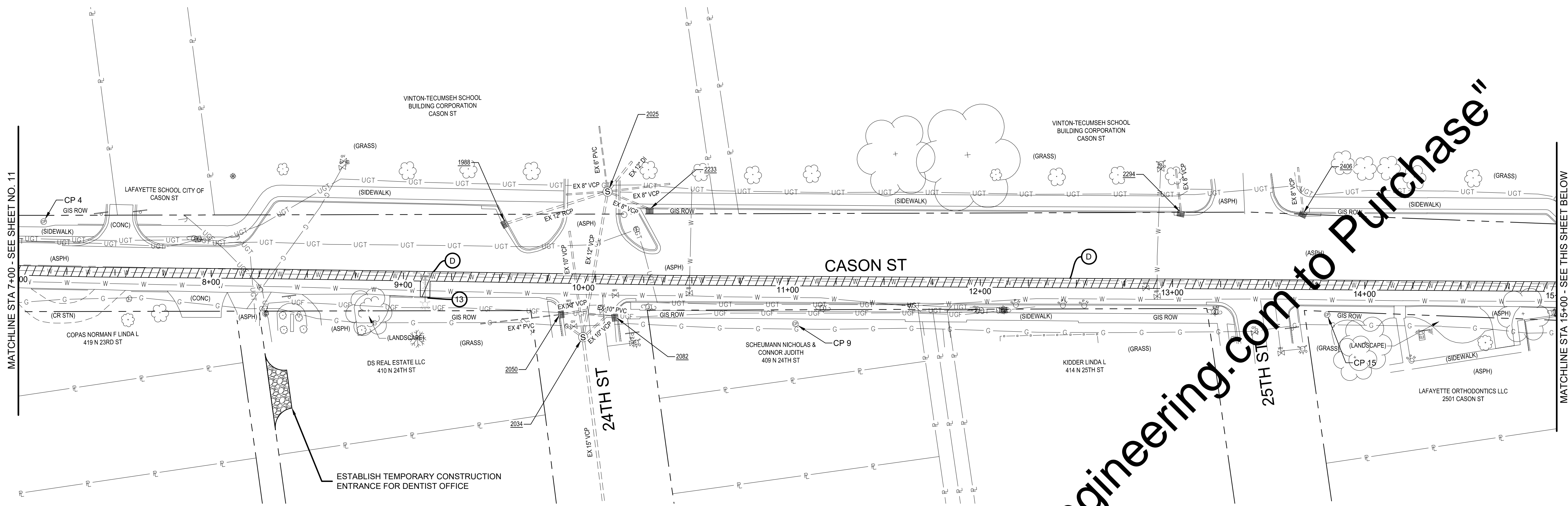
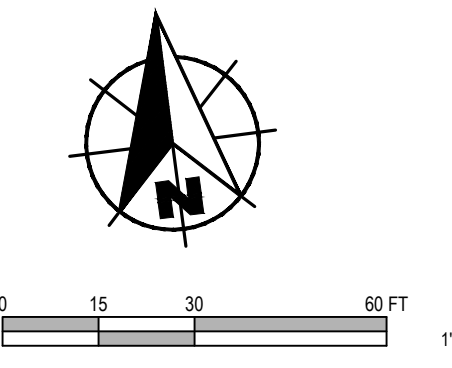
**CASON STREET WATER MAIN EXTENSION**  
LAFAYETTE WATER WORKS  
LAFAYETTE, INDIANA

**ROAD REPAIR - LINE A AND LINE B - CASON ST**

SHEET NO.  
**11**  
TOTAL SHEETS  
**20**

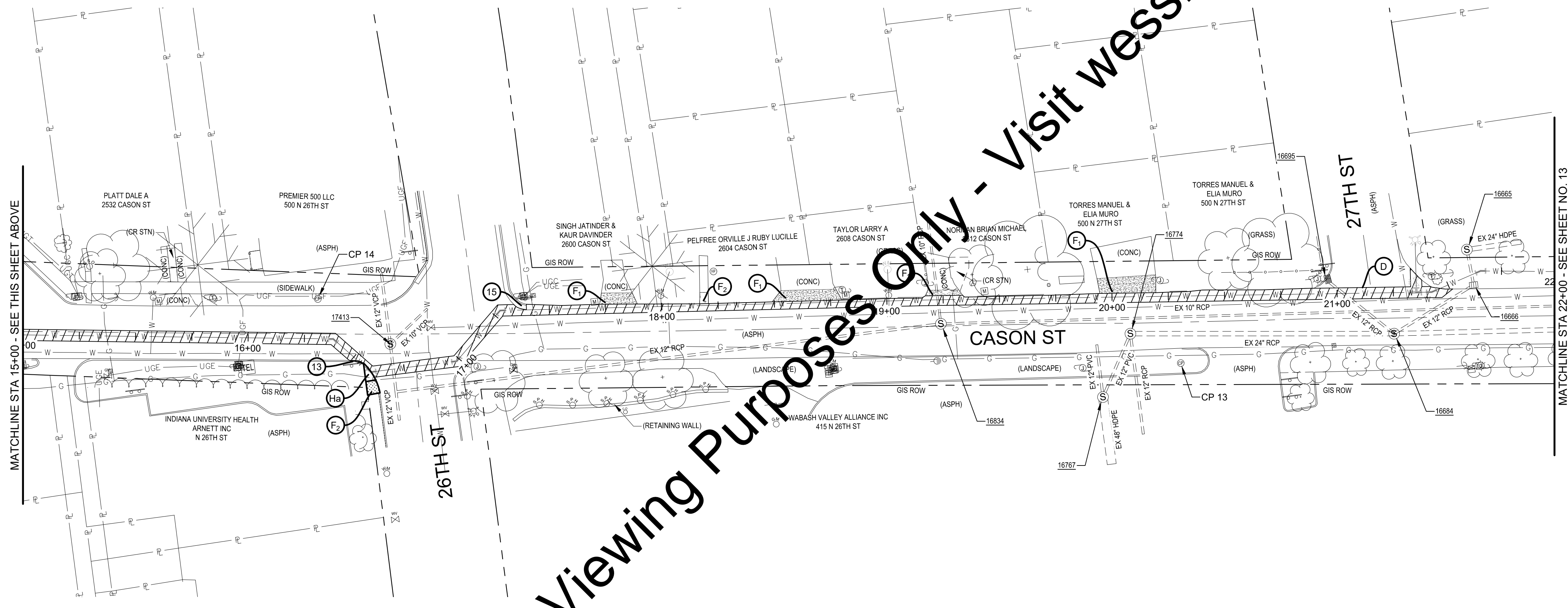
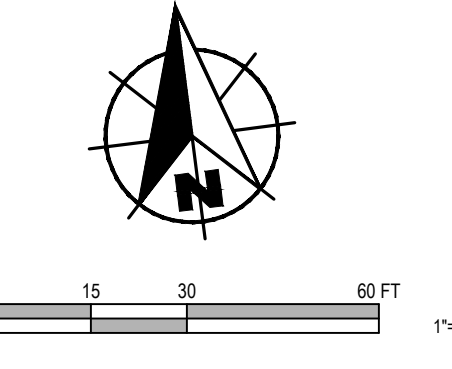
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PLAN - LINE B  
SCALE: 1" = 30'

NOTES:  
1. COORDINATE WITH LAFAYETTE PEDIATRIC DENTISTRY, 410 N 24TH ST, TO ESTABLISH A TEMPORARY DRIVE TO ACCESS THEIR PARKING LOT FROM THE ALLEY.



PLAN - LINE B  
SCALE: 1" = 30'

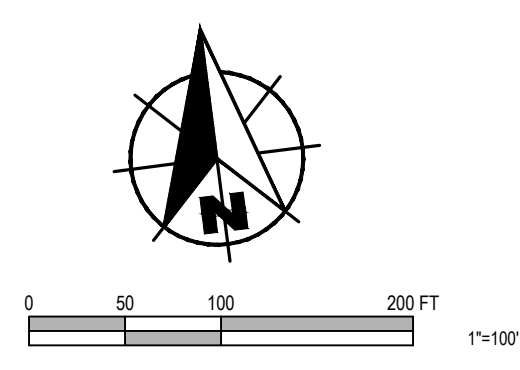
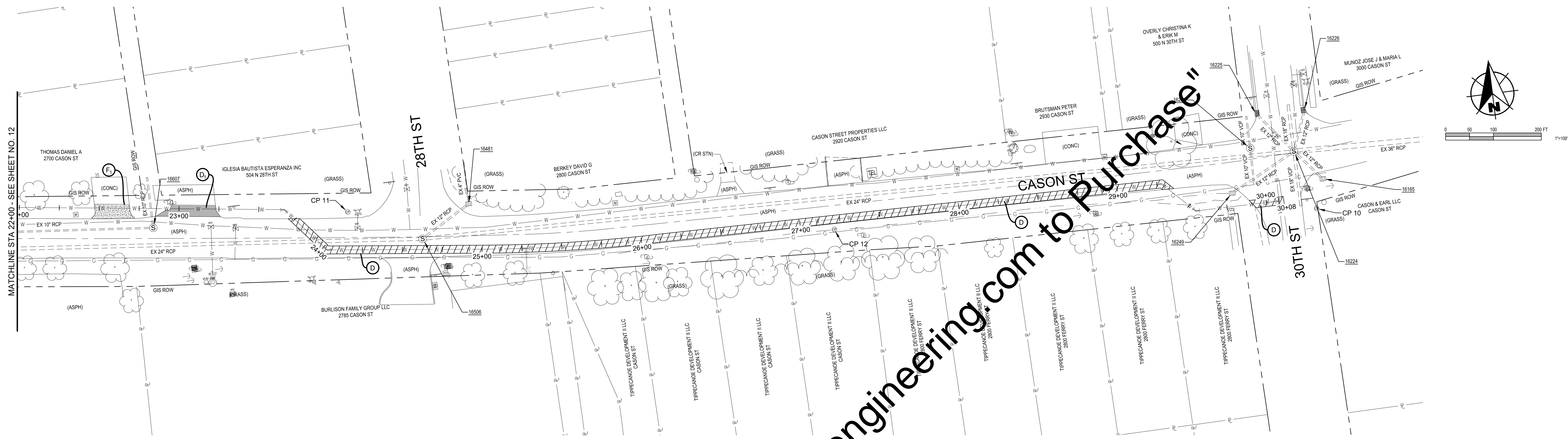
**KEYED NOTES**

D	PAVEMENT REPAIR
D <sub>1</sub>	ASPHALT DRIVE REPAIR
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	CHECKED BY	LHR											
	APPROVED BY	ADG											
	ISSUE DATE	NOVEMBER 2019											
PROJECT NUMBER	201918-04-002								<b>ROAD REPAIR - LINE B - CASON ST</b>	TOTAL SHEETS	20		



**PLAN - LINE B**  
SCALE: 1" = 30'

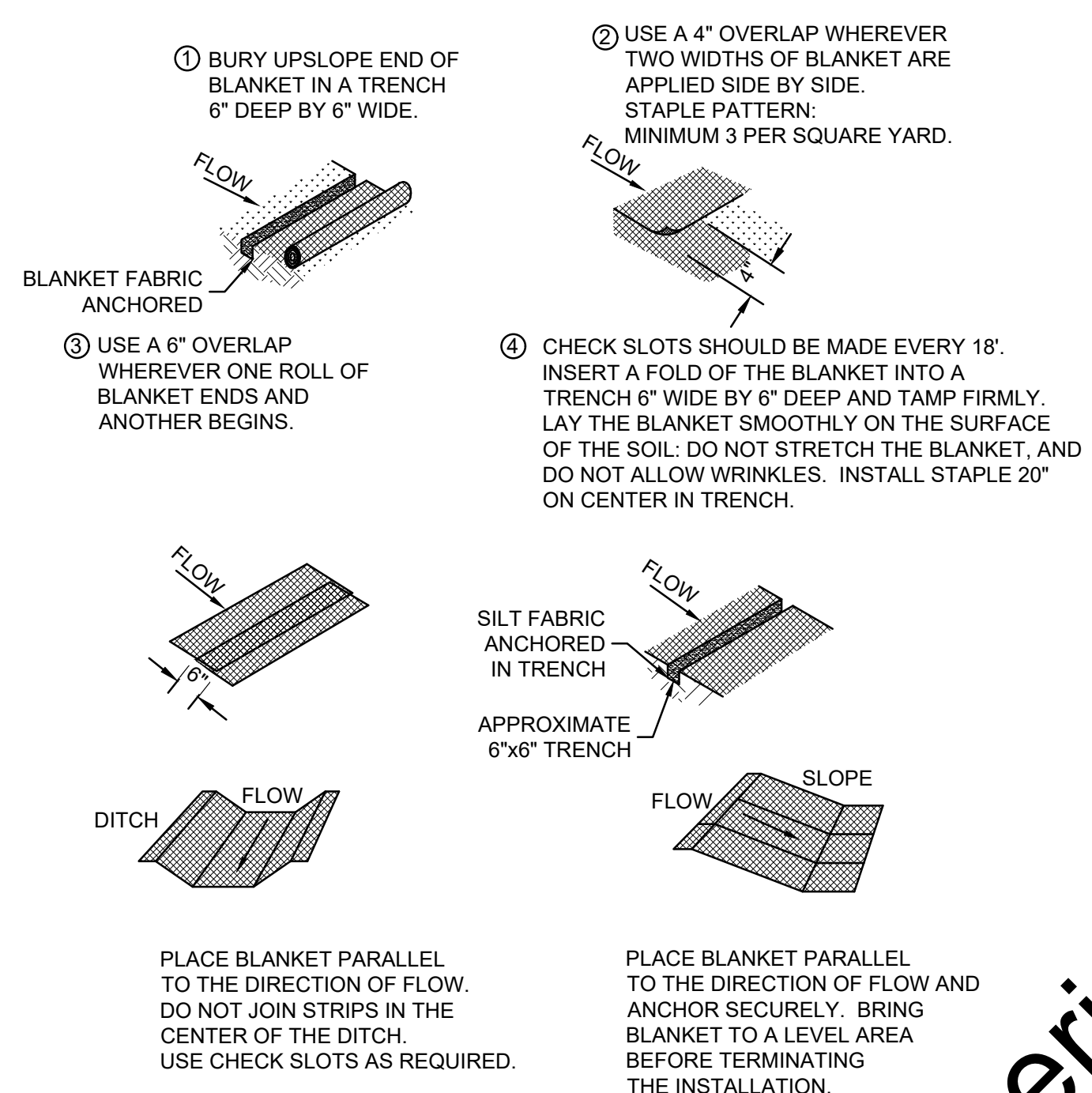
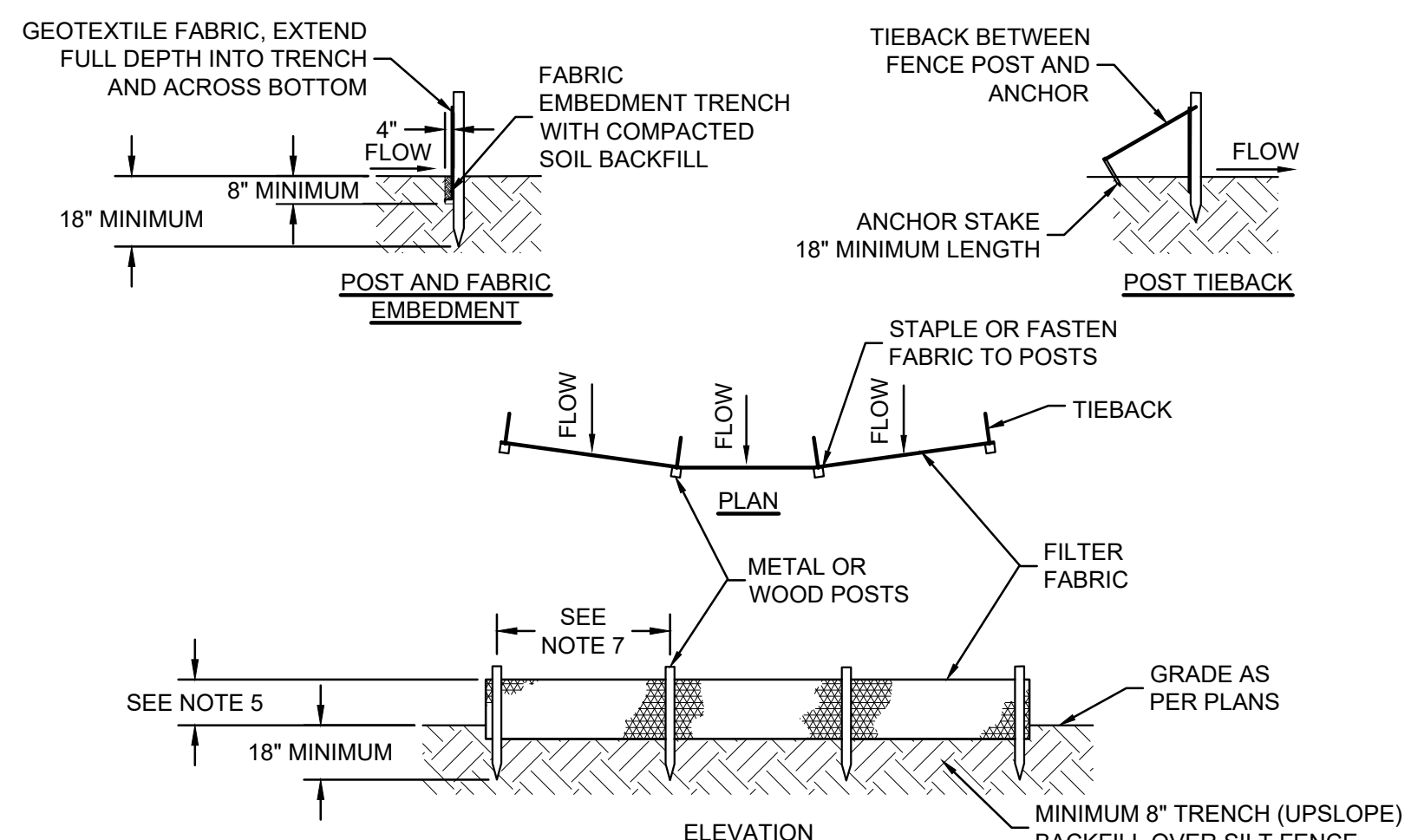
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**KEYED NOTES**

- D PAVEMENT REPAIR
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SCALE VERIFICATION  BAR IS ONE INCH LONG ON ORIGINAL DRAWING  	DRAWN BY	JRW	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	 <b>W</b> <b>WESSLER</b> ENGINEERING <i>More than a Project™</i>	<b>CASON STREET WATER MAIN EXTENSION</b> LAFAYETTE WATER WORKS LAFAYETTE, INDIANA  <b>ROAD REPAIR - LINE B - CASON ST</b>	SHEET NO. <span style="font-size: 2em; font-weight: bold;">13</span> TOTAL SHEETS <span style="font-size: 2em; font-weight: bold;">20</span>
	CHECKED BY	LHR							
	APPROVED BY	ADG							
	ISSUE DATE	NOVEMBER 2019							
	PROJECT NUMBER	201918-04-002							



**SEASONAL SOIL PROTECTION CHART**

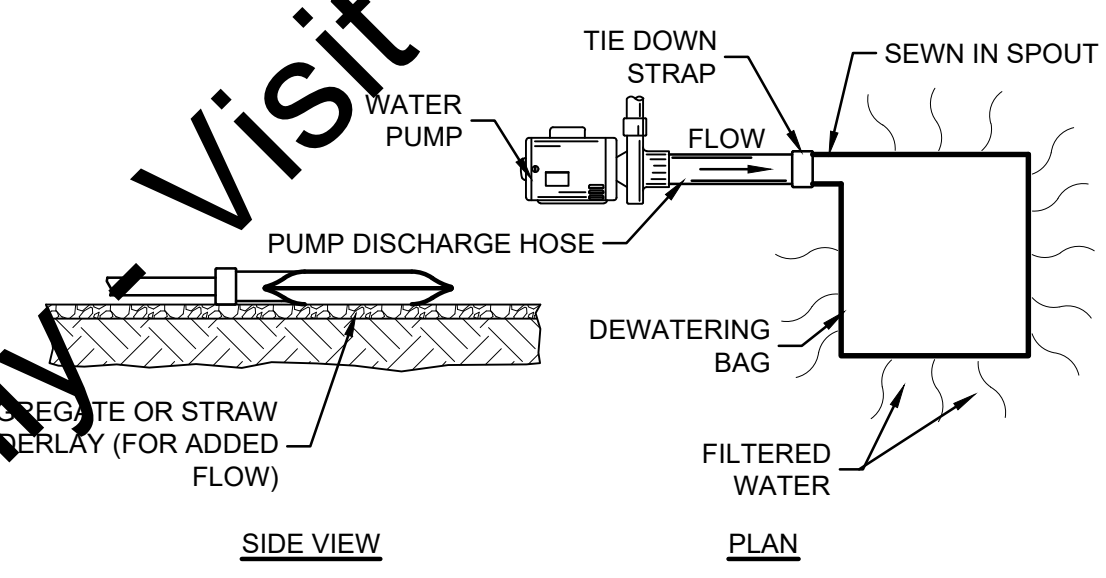
STABILIZATION PRACTICE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PERMANENT SEEDING						A						
DORMANT SEEDING	B										B	
TEMPORARY SEEDING			C						E			
MULCHING						F						

A = KENTUCKY BLUEGRASS 40 LB/ACRE  
 B = KENTUCKY BLUEGRASS 210 LB/ACRE  
 C = SPRING OATS 100 LB/ACRE (1" PLANTING DEPTH)  
 D = WHEAT OR RYE 150 LB/ACRE (1" - 1.5" PLANTING DEPTH)  
 E = ANNUAL RYEGRASS 40 LB/ACRE (1/4" PLANTING DEPTH)  
 F = SOD  
 G = ANCHORED STRAW/HAY (2 TONS/ACRE) OR WOOD FIBER/CELLULOSE (1 TON/ACRE)

- NOTES:**
- SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF WOVEN OR NON-WOVEN GEOTEXTILE FABRIC AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:
    - TEXTILE STRENGTH AT 20% (MAXIMUM) ELONGATION, PER ASTM D4632
    - WOVEN EXTRA STRENGTH - 50 LB/LINEAR INCH (MINIMUM), NON-WOVEN EXTRA STRENGTH - 70 LB/INCH (MINIMUM)
    - WOVEN STANDARD STRENGTH - 30 LB/LINEAR INCH (MINIMUM), NON-WOVEN STANDARD STRENGTH - 50 LB/INCH (MINIMUM)
    - APPARENT OPENING SIZE (AOS) (U.S. SIEVE) - NO. 30 PARTICLE SIZE OF 0.6 mm (MAXIMUM), ASTM D4751
    - PERMITTIVITY - 0.05 S<sup>-1</sup> (MAXIMUM), ASTM D4491
  - POSTS FOR SILT FENCES SHALL BE EITHER 2"x2" SQUARE WOOD OR EQUIVALENT METAL POSTS WITH A MINIMUM LENGTH OF 5'. METAL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.
  - ANCHOR STAKES FOR SILT FENCES SHALL BE 1"x2" WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 18".
  - WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 42" IN HEIGHT, A MINIMUM OF 14 GAUGE, AND SHALL HAVE A MAXIMUM MESH SPACING OF 6".
  - THE HEIGHT OF THE BARRIER SHALL BE A MINIMUM OF 18" AND A MAXIMUM OF 30".
  - THE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER FABRIC SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6" OVERLAP, AND SECURELY SEALED.
  - POSTS SHALL BE SPACED A MAXIMUM OF 6' APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 18"). WHEN STANDARD STRENGTH FABRIC IS USED WITH THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 8'.
  - THE SPACING OF TIEBACKS SHALL EQUAL THE SPACING OF THE POSTS. ADDITIONAL POST DEPTH OR TIEBACKS MAY BE REQUIRED IN UNSTABLE SOILS.
  - A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE AND A MINIMUM OF 8" DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
  - WHEN STANDARD STRENGTH FILTER FABRIC IS USED WITH A WIRE MESH SUPPORT FENCE IT SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY 1" WIRE STAPLES, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2" AND SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE.
  - THE STANDARD STRENGTH FILTER FABRIC, WITHOUT A WIRE MESH SUPPORT FENCE, SHALL BE STAPLED OR WIRED TO THE FENCE, AND A MINIMUM 8" OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE. DO NOT STAPLE FILTER FABRIC TO EXISTING TREES.
  - WHEN EXTRA STRENGTH FILTER FABRIC OR BURLAP AND POST SPACING IS LESS THAN THE MAXIMUM SPECIFIED SPACING OF 6', THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED.
  - BACKFILL THE TRENCH AND COMPACT THE SOIL OVER THE FILTER FABRIC.
  - REMOVE SILT FENCES WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
  - SILT FENCE SHALL NOT BE USED AS A DIVERSION AND SHALL NOT BE INSTALLED ACROSS A STREAM, CHANNEL, DITCH, SWALE, ETC.
- MAINTENANCE:**
- INSPECT AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. INSPECT AT LEAST ONCE EVERY 7 CALENDAR DAYS.
  - REPLACE OR REPAIR FABRIC IMMEDIATELY IF IT DECOMPOSES OR IS INEFFECTIVE.
  - SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.
  - SPREAD ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED AND DRESS TO CONFORM WITH THE FINISHED GRADING.

- PRODUCT:**
- NORTH AMERICAN GREEN SC150, OR EQUAL.
- NOTES:**
- PROTECT THE SLOPES WITH AN EROSION CONTROL BLANKET WHERE CONSTRUCTION DISTURBS SLOPES EQUAL OR STEEPER THAN 3:1.
- MAINTENANCE:**
- INSPECT FOR EROSION AFTER EACH STORM EVENT DURING VEGETATION ESTABLISHMENT, AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
  - IF ANY AREAS SHOW EROSION, PULL BACK THAT PORTION OF THE BLANKET, ADD SOIL, RESEED, RELAY AND STAPLE THE BLANKET.
  - CHECK AREAS PERIODICALLY AFTER VEGETATION ESTABLISHMENT.

**EROSION CONTROL BLANKET**  
SCALE: NONE

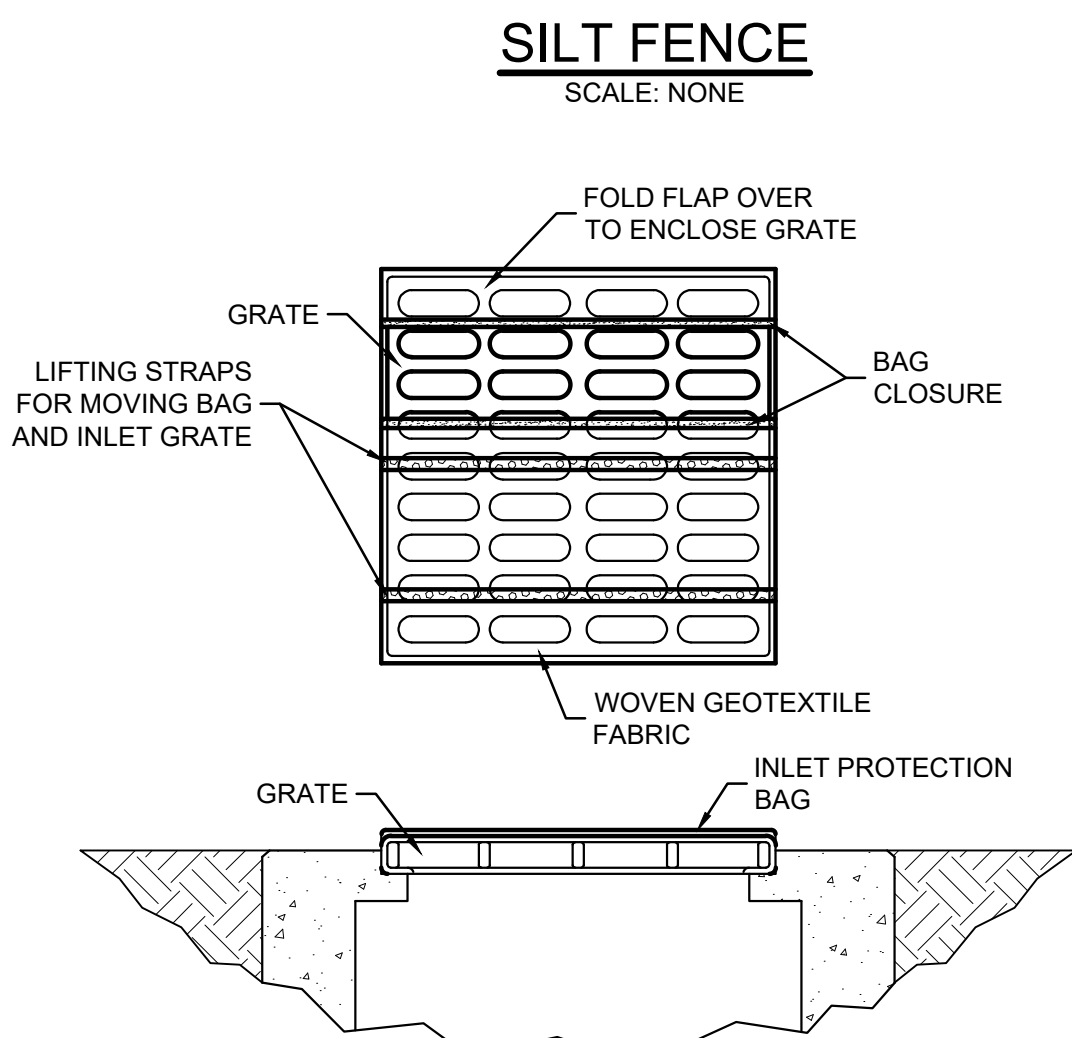


MECHANICAL PROPERTIES	TEST METHOD	UNITS	INDUSTRY STANDARD
GRAB TENSILE STRENGTH	ASTM D4632	kN (LB)	0.9 (205) X 0.9 (205)
GRAB TENSILE ELONGATION	ASTM D4632	%	50 X 50
PUNCTURE STRENGTH	ASTM D4833	kN (LB)	0.58 (130)
MULLEN BURST STRENGTH	ASTM D3786	kPa (PSI)	2618 (380)
TRAPEZOID TEAR STRENGTH	ASTM D4533	kN (LB)	0.36 (80) X 0.36 (80)
UV RESISTANCE	ASTM D4355	%	70
APPARENT OPENING SIZE	ASTM D4751	Mm (US STD SIEVE)	0.180 (80)
FLOW RATE	ASTM D4491	1/MIN/M <sup>2</sup> (GAL/MIN/F <sup>2</sup> )	3866 (95)
PERMITTIVITY	ASTM D4491	S <sup>-1</sup>	1.2

- MAINTENANCE:**
- DURING THE ACTIVE DEWATERING PROCESS, INSPECTION OF THE PUMPING BAG SHOULD BE REVIEWED FREQUENTLY. SPECIAL ATTENTION SHOULD BE PAID TO THE BUFFER AREA FOR ANY SIGN OF EROSION AND CONCENTRATION OF FLOW. OBSERVE WHERE POSSIBLE THE VISUAL QUALITY OF THE EFFLUENT AND DETERMINE IF ADDITIONAL TREATMENT CAN BE PROVIDED.
  - DISPOSE OF ACCUMULATED SEDIMENT REMOVED DURING PUMPING OPERATIONS IN CONFORMANCE WITH THE SPECIFICATIONS.
  - REPLACE THE BAG OR DISPOSE OF SILT WHEN HALF FULL OF SEDIMENT OR WHEN SEDIMENT HAS REDUCED THE FLOW RATE TO AN IMPRACTICAL RATE.

SOURCE:  
KRISTAR  
DANDY DEWATERING BAG  
SEDCATCH

**PUMPING BAG**  
SCALE: NONE



- PRODUCT:**
- DANDY BAG, OR APPROVED EQUAL.
- INSTALLATION:**
- THE EMPTY INLET PROTECTION BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END.
  - TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE.
  - HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.
- MAINTENANCE:**
- REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT.
  - REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE INLET PROTECTION BAG AS NEEDED.
  - INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND ONCE EVERY 7 CALENDAR DAYS.

**INLET PROTECTION BAG**  
SCALE: NONE

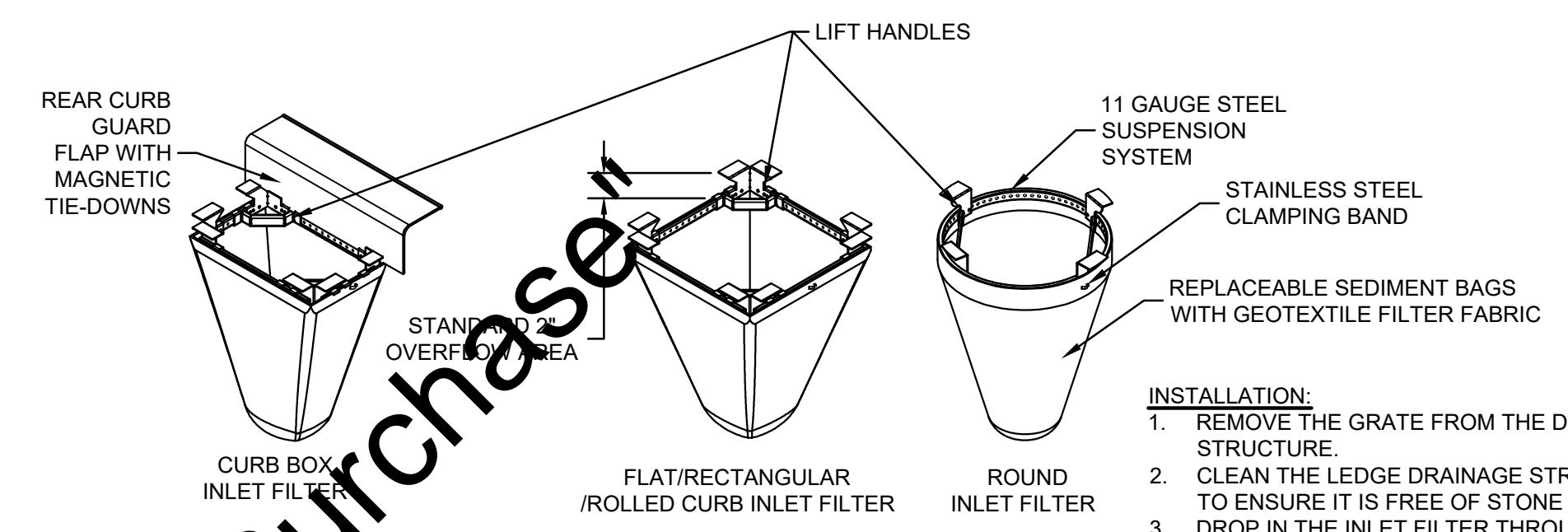
<b>EROSION CONTROL SCHEDULE</b>	
CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
NOTIFY IDEM RULE 5 COORDINATOR (317-233-1864) AND THE STORMWATER AUTHORITY WITHIN 48 HOURS PRIOR TO STARTING CONSTRUCTION. POST THE CONTACT INFORMATION AT THE CONSTRUCTION ENTRANCE. INCLUDE A COPY OF THE NOTICE OF INTENT (NOI) AND THE ONSITE PERSON WHO IS RESPONSIBLE FOR IMPLEMENTING THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP SHOULD BE ONSITE AND WEEKLY SITE INSPECTION REPORTS MUST BE AVAILABLE WITHIN 48 HOURS OF REQUEST.	WITHIN 48 HOURS PRIOR TO STARTING CONSTRUCTION.
CONSTRUCTION ACCESS - ENTRANCE TO SITE, CONSTRUCTION ROUTES, AREAS DESIGNATED FOR EQUIPMENT PARKING OR MATERIAL STAGING.	THIS IS THE FIRST LAND-DISTURBING ACTIVITY. AS SOON AS CONSTRUCTION BEGINS, STABILIZE ANY BARE AREAS WITH AGGREGATE AND TEMPORARY VEGETATION.
SEDIMENT TRAPS AND BARRIERS - BASIN TRAPS, SILT FENCE.	AFTER CONSTRUCTION IS ACCESSED, BASINS SHALL BE INSTALLED, WITH THE ADDITION OF MORE TRAPS AND BARRIERS AS NEEDED DURING GRADING.
RUNOFF CONTROL - DIVERSIONS, PERIMETER PROTECTION, CHECK DAMS, OUTLET PROTECTION.	RUNOFF CONTROL PRACTICES SHALL BE INSTALLED AFTER THE INSTALLATION OF SEDIMENT TRAPS AND BEFORE LAND GRADING. ADDITIONAL RUNOFF CONTROL MEASURES MAY BE INSTALLED DURING GRADING.
RUNOFF CONVEYANCE SYSTEM - STABILIZE STREAM BANKS, STORM DRAINS, CHANNELS, INLET AND OUTLET PROTECTION, SLOPE DRAINS.	AS NECESSARY, STABILIZE STREAM BANKS AND SIDE SLOPES OF RUNOFF SYSTEMS AS SOON AS POSSIBLE. USE EROSION CONTROL BLANKETS OR SLOPE DRAINS TO PREVENT EROSION. INSTALL INLET PROTECTION TO PREVENT SEDIMENTS FROM ENTERING STORM DRAINAGE SYSTEMS. PROTECT STORM OUTLETS TO PREVENT EROSION.
LAND CLEARING AND GRADING - SITE PREPARATION (CUTTING, FILLING, AND GRADING, SEDIMENT TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING).	IMPLEMENT CLEARING AND GRADING AFTER INSTALLATION OF SEDIMENT TRAPS AND RUNOFF CONTROL MEASURES, AND INSTALL ADDITIONAL CONTROL MEASURES AS GRADING CONTINUES. CLEAR BORROW AND DISPOSAL AREAS AS NEEDED, AND MARK TREES AND BUFFER AREAS FOR PRESERVATION.
SURFACE STABILIZATION - TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIPRAP, EROSION CONTROL BLANKET.	APPLY TEMPORARY OR PERMANENT STABILIZING MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS BEEN EITHER COMPLETED OR DELAYED.
CONSTRUCTION - STRUCTURES, UTILITIES, PAVING.	DURING CONSTRUCTION, INSTALL ANY EROSION AND SEDIMENTATION CONTROL MEASURES THAT ARE NEEDED.
LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.	THIS IS THE LAST CONSTRUCTION PHASE. STABILIZE ALL DISTURBED AREAS, INCLUDING BORROW AND SPOIL AREAS, AND REMOVE ALL TEMPORARY CONTROL MEASURES. A UNIFORM DENSITY OF 70% VEGETATED COVER IS REQUIRED.

**EROSION CONTROL SCHEDULE**  
SCALE: NONE

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	CHECKED BY	LHR							TOTAL SHEETS	<b>20</b>
	APPROVED BY	ADG								
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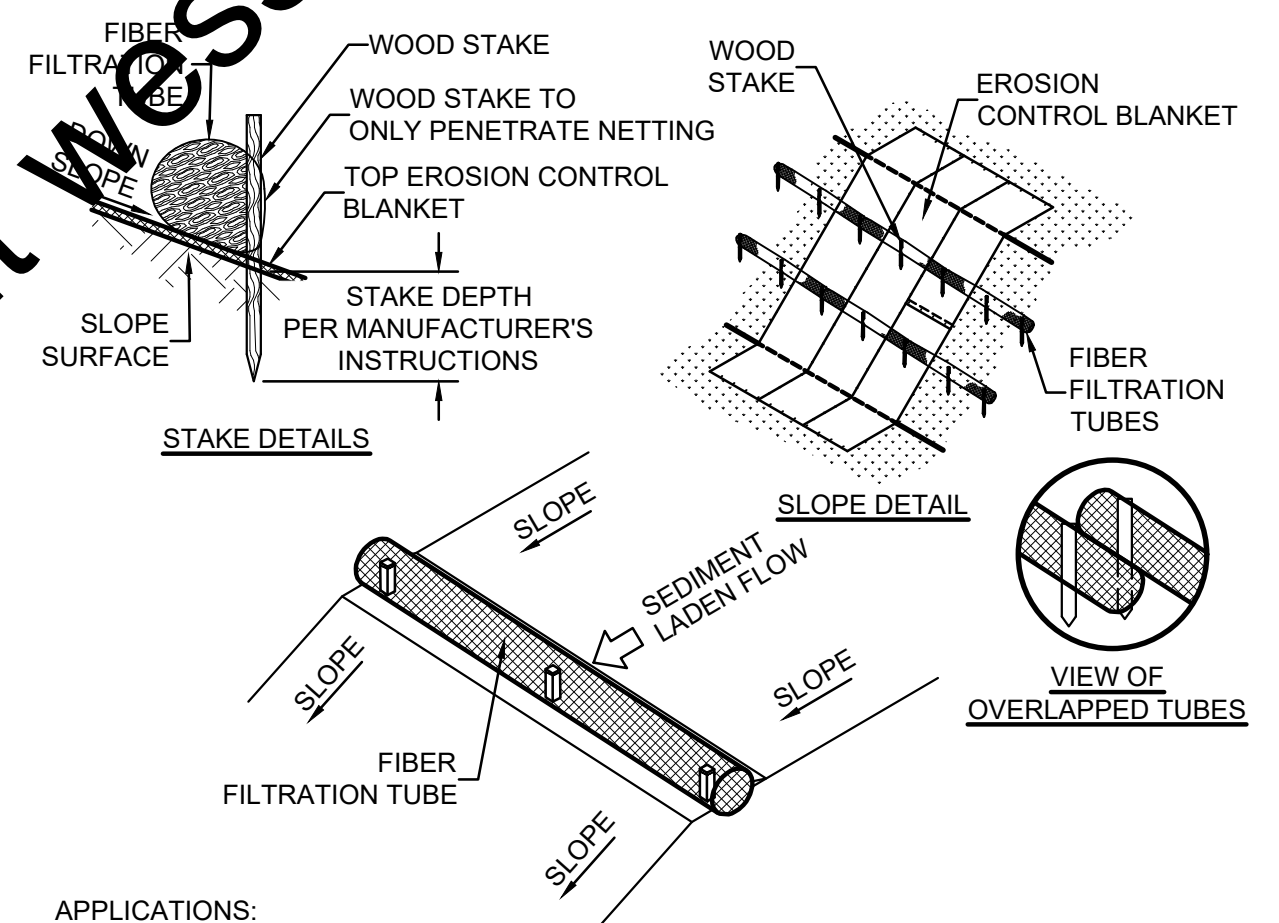


INLET FILTER SPECIFICATIONS		
WOVEN GEOTEXTILE SEDIMENT BAG SPECS (2 FT VOL)		
MATERIAL PROPERTY	TEST METHOD	VALUE (AVG)
GRATE OPENING	ASTM D4632	255 X 275
PULL APART STRENGTH	ASTM D4833	135 LB
FLAP ZIGZAG TEAR	ASTM D4533	75 LB
PULL APART RESISTANCE	ASTM D4355	90%
APP OPEN SIZE (AOS)	ASTM D4751	NO. 20 SIEVE
PERMITTIVITY	ASTM D4491	1.5 S <sup>-1</sup>
WATER FLOW RATE	ASTM D4491	200 GPM/SQFT
SEDIMENT REMOVAL EFFICIENCY (8% MIX)	ASTM D7351	82%

SOURCE: FLEX STORM INLET FILTER

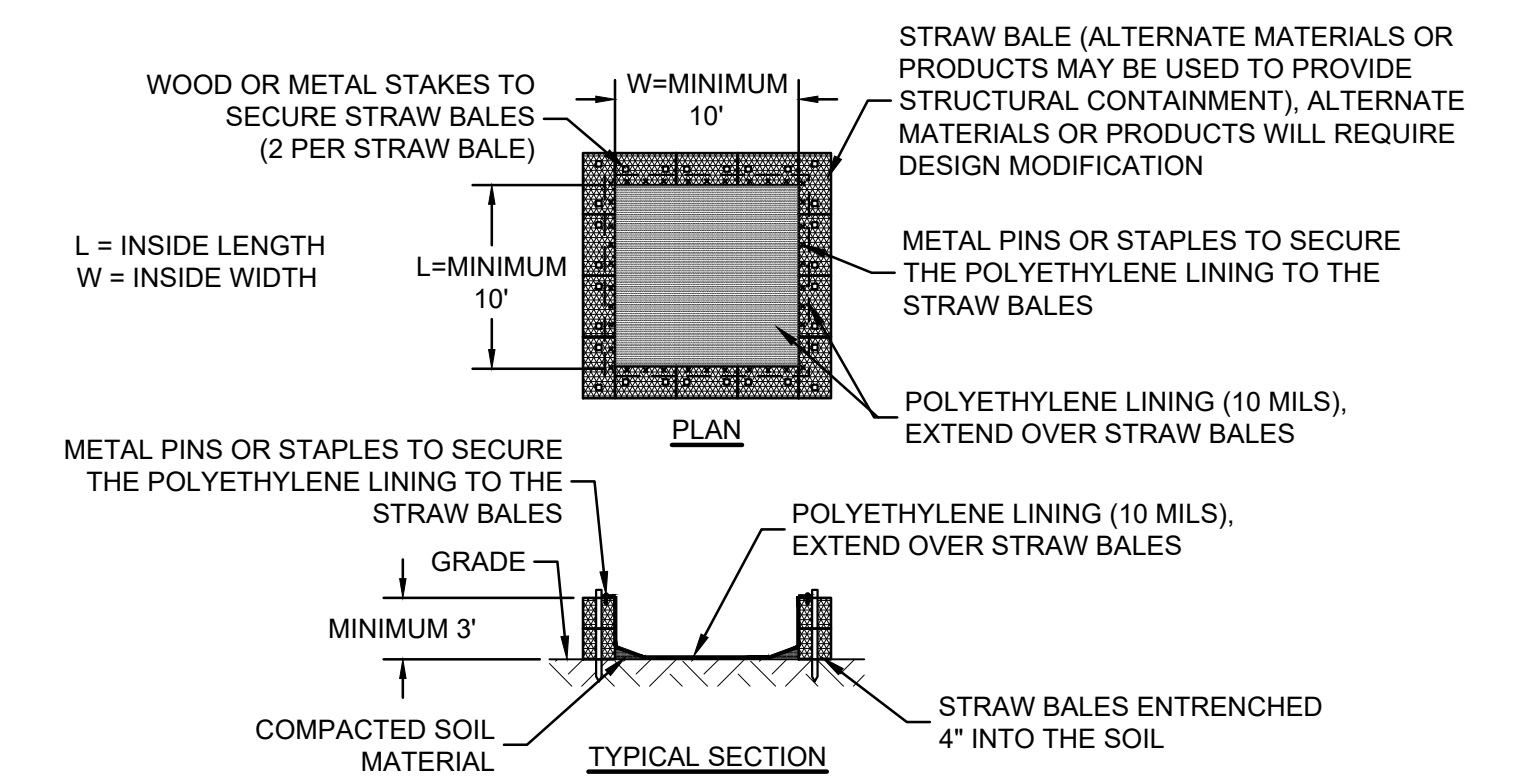
- INSTALLATION:**
- REMOVE THE GRATE FROM THE DRAINAGE STRUCTURE.
  - CLEAN THE LEDGE DRAINAGE STRUCTURE TO ENSURE IT IS FREE OF STONE AND DIRT.
  - DROP IN THE INLET FILTER THROUGH THE CLEAR OPENING AND BE SURE THE SUSPENSION HANGERS REST FIRMLY ON THE INSIDE LEDGE.
  - REPLACE THE GRATE.
  - FOR CURB BOX INLET FILTERS: INSERT INLET FILTER AS DESCRIBED ABOVE IN COMBINATION WITH THE CURB BOX FLAP IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- MAINTENANCE:**
- INSPECT THE INLET FILTER DAILY AND AFTER EACH STORM EVENT AND EMPTY IF THE SEDIMENT BAG IS MORE THAN HALF FILLED WITH SEDIMENT AND DEBRIS, OR AS DIRECTED BY THE ENGINEER.
  - REMOVE THE GRATE AND LIFT THE INLET FILTER FROM THE DRAINAGE STRUCTURE. DISPOSE OF ACCUMULATED SEDIMENTS AND DEBRIS PROPERLY. MATERIAL SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM.
  - REMOVE ANY CAKED ON SILT FROM THE SEDIMENT BAG AND REVERSE FLUSH THE BAG FOR OPTIMAL FILTRATION.
  - REPLACE THE BAG IF THE INNER FILTER MEMBRANE IS TORN.

**INLET PROTECTION**  
SCALE: NONE



- APPLICATIONS:**
- TOP OF SLOPES.
  - AT PROJECT PERIMETER.
- INSTALLATION:**
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
  - USE THE APPROPRIATE SIZE, LENGTH AND DISTANCE BETWEEN TUBES AS SPECIFIED BY THE MANUFACTURER.
  - ENTRENCH PER MANUFACTURER'S INSTRUCTIONS.
- MAINTENANCE:**
- REMOVE ALL ACCUMULATED SEDIMENT WHEN IT REACHES 1/4 THE HEIGHT OF THE TUBE.
  - REPAIR ERODED AND DAMAGED AREAS.
  - IF PONDING BECOMES EXCESSIVE DUE TO REDUCED FILTERING CAPACITY, REMOVE THE TUBE AND EITHER RECONSTRUCT OR REPLACE WITH NEW PRODUCT.
  - INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.

**FIBER FILTRATION TUBES - SLOPE**  
SCALE: NONE

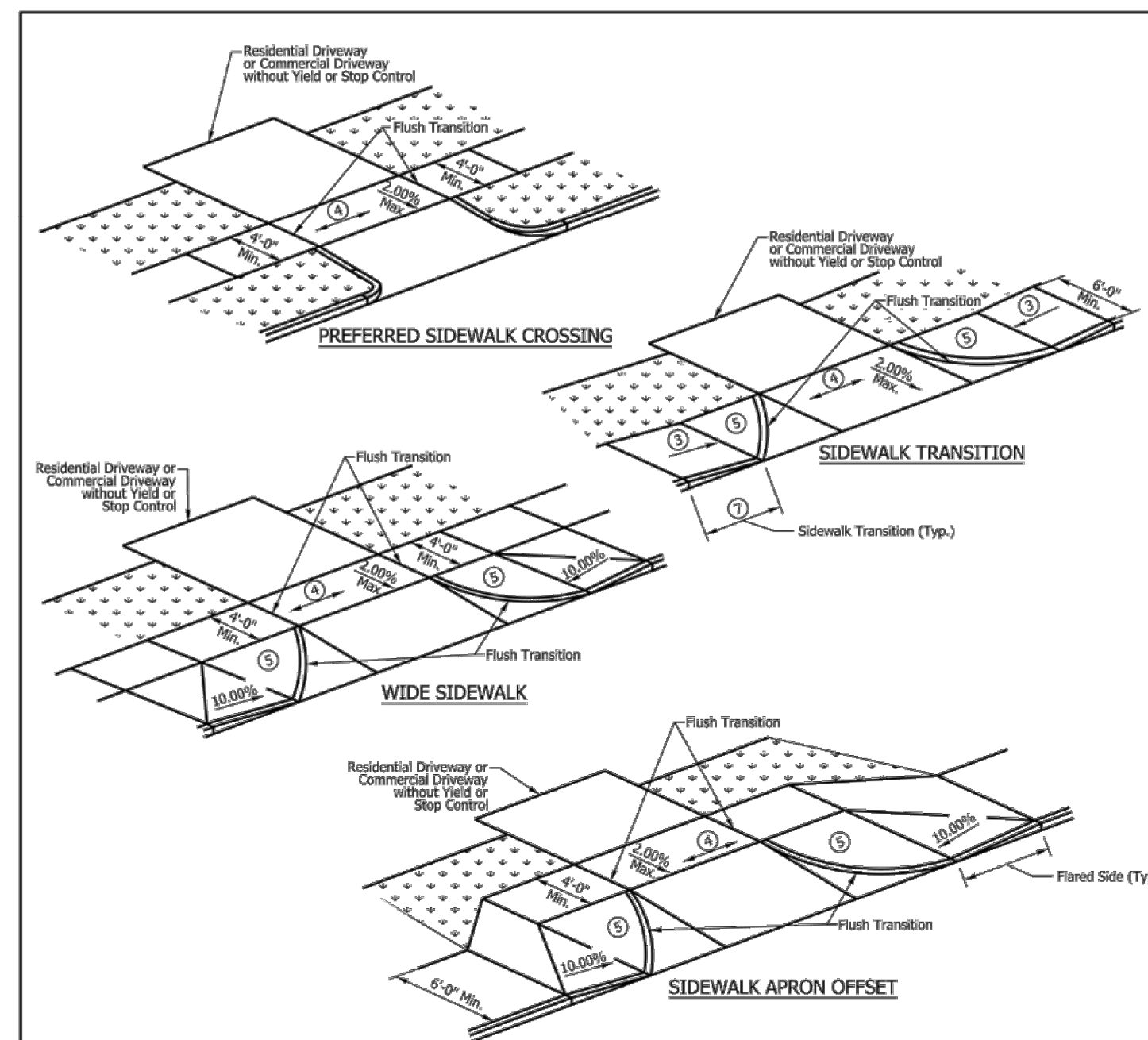


- NOTES:**
- LOCATE WASHOUTS AT LEAST 50' FROM ANY CREEKS, WETLANDS, DITCHES, KARST FEATURES, OR STORM DRAIN/CONVEYANCES.
- WASHOUT PROCEDURES:**
- DO NOT LEAVE EXCESS MUD IN THE CHUTES OR HOPPER AFTER POURING CONCRETE. MAKE EVERY EFFORT TO EMPTY THE CHUTE AND HOPPER AT THE POUR. THE LESS MATERIAL LEFT IN THE CHUTES AND HOPPER, THE QUICKER AND EASIER THE CLEANOUT. SMALL AMOUNTS OF EXCESS CONCRETE (NOT WASHOUT WATER) MAY BE DISPOSED OF IN AREAS THAT WILL NOT FLOW TO AN AREA THAT IS TO BE PROTECTED.
  - SCRAPE AS MUCH MATERIAL FROM THE CHUTES AS POSSIBLE BEFORE WASHING THEM. USE NON-WATER CLEANING METHODS TO MINIMIZE THE CHANCE FOR WASTE TO FLOW OFF SITE.
  - STOP WASHING OUT IN AN AREA IF YOU OBSERVE WATER RUNNING OFF THE DESIGNATED AREA OR IF THE WATER IS NOT BEING CONTAINED WITHIN THE WASHOUT AREA.
  - DO NOT BACK FLUSH EQUIPMENT AT THE PROJECT SITE.
  - DO NOT USE ADDITIVES WITH WASH WATER.
  - DO NOT WASH OUT OR DRAIN WASTE WATERS TO STORM DRAINS, WETLANDS, STREAMS, RIVERS, CREEKS, DITCHES OR STREETS.
- MAINTENANCE:**
- MAINTENANCE REQUIREMENTS PROVIDED IN SPECIFICATIONS.

**CONCRETE WASHOUT**  
SCALE: NONE

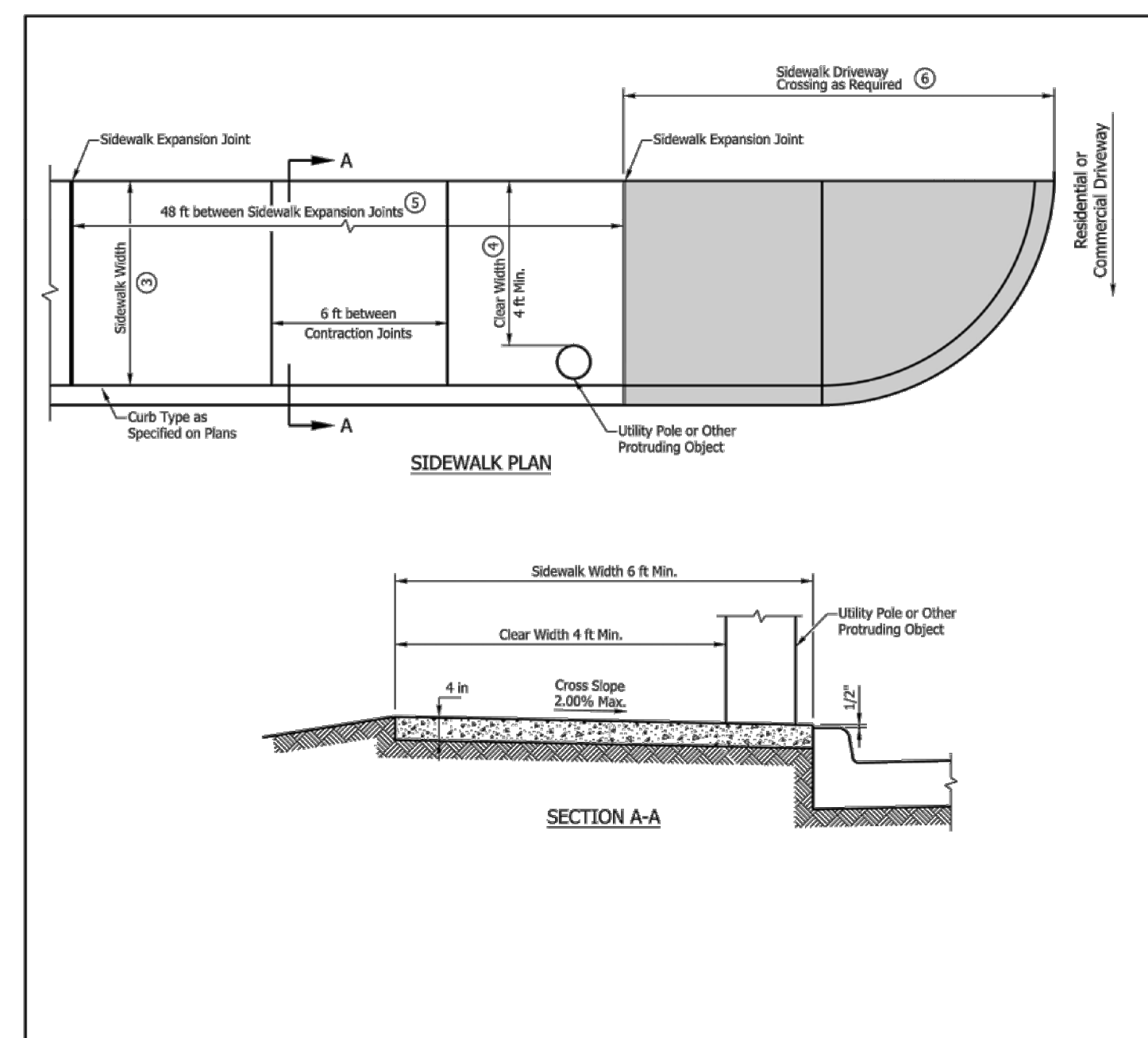
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SCALE VERIFICATION  BAR IS ONE INCH LONG ON ORIGINAL DRAWING  	DRAWN BY	JRW	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	 <b>W</b> <b>WESSLER</b> ENGINEERING <i>More than a Project™</i>	<b>CASON STREET WATER MAIN EXTENSION</b>		SHEET NO. <span style="font-size: 2em; font-weight: bold;">15</span> TOTAL SHEETS <span style="font-size: 2em; font-weight: bold;">20</span>
	CHECKED BY	LHR						LAFAYETTE WATER WORKS		
	APPROVED BY	ADG						LAFAYETTE, INDIANA		
	ISSUE DATE	NOVEMBER 2019						<b>EROSION CONTROL DETAILS</b>		
	PROJECT NUMBER	201918-04-002								



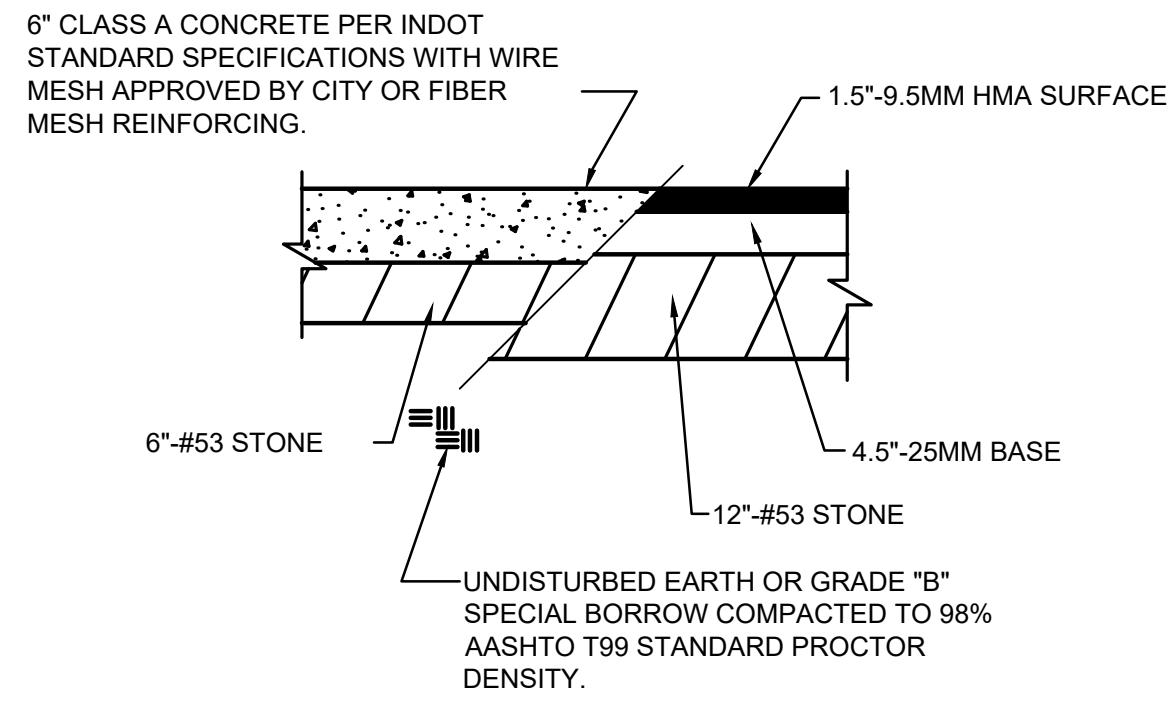
- NOTES:**
1. All slopes are absolute rather than relative to the sidewalk or roadway grade. Slopes at least 0.50% less than the maximum are preferred.
  2. A sidewalk driveway crossing shall only be used on a sidewalk at a residential driveway or a commercial driveway without yield or stop control. A curb ramp shall be used at all other crossings. See Standard Drawing Series E 604-SDWK for curb ramp details.
  3. Where a sidewalk transition is used to lower or raise the sidewalk to connect with a residential driveway or commercial driveway without yield or stop control, the running slope of the transition shall be 8.33% maximum.
  4. The grade of the sidewalk across the driveway shall not exceed the grade of the adjacent roadway.
  5. The area between the driveway and a flared side or sidewalk transition shall match the driveway profile and transverse slope.
  6. A turning space is not required at the top of a sidewalk transition.
  7. Objects such as a utility cover, vault frame, and grating shall be placed outside a sidewalk transition.
  8. A detectable warning surface shall not be placed at the crossings of a residential driveway or a commercial driveway without yield or stop control.
  9. See Standard Drawing E 604-SDWK-01 and -02 for Sidewalk Details.
  10. See Standard Drawing Series E 610-DRIV for drives.

INDIANA DEPARTMENT OF TRANSPORTATION  
 SEPTEMBER 2016  
 STANDARD DRAWING NO. E 604-SDWK-03  
 DESIGN STANDARDS ENGINEER: Elizabeth W. Phillips  
 DATE: 03/16/16  
 CHIEF ENGINEER: Mark A. Miller  
 DATE: 03/16/16

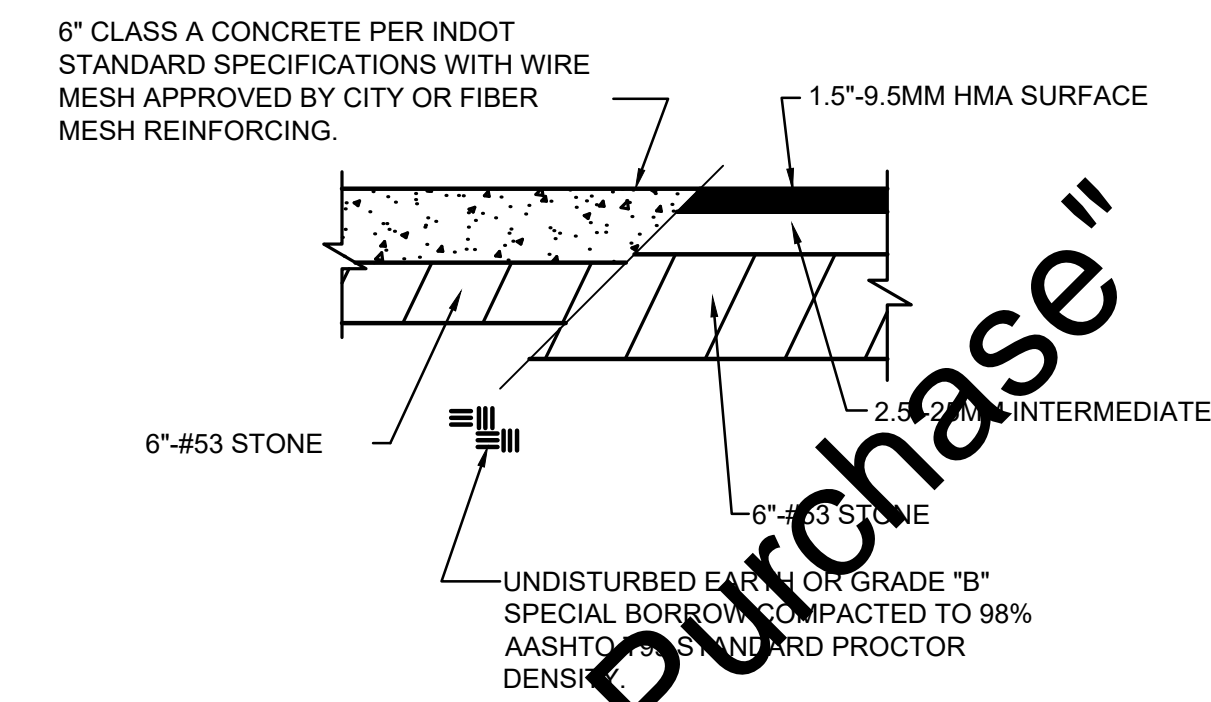


- NOTES:**
1. All slopes are absolute rather than relative to the sidewalk or roadway grade. Slopes at least 0.50% less than the maximum are preferred.
  2. The grade of the sidewalk is measured in the direction of pedestrian travel. The grade of the sidewalk shall not exceed the grade of the adjacent roadway. The cross slope is measured perpendicular to the direction of pedestrian travel. The cross slope of the sidewalk shall not exceed 2.00%.
  3. Where there is no buffer between the sidewalk and curbs, the preferred minimum sidewalk width is 6 ft.
  4. A 4-ft minimum clear width shall be provided adjacent to street furniture, mailboxes, utility poles, or other protruding objects. Where the sidewalk clear width is less than 5 ft, a passing space shall be provided at 200 ft intervals. See Standard Drawing E 604-SDWK-01 for sidewalk passing space details.
  5. See Standard Drawing E 604-CCS3-01 for sidewalk expansion joint details.
  6. See Standard Drawing E 604-SDWK-03 for sidewalk driveway crossing configurations.

INDIANA DEPARTMENT OF TRANSPORTATION  
 SEPTEMBER 2016  
 STANDARD DRAWING NO. E 604-SDWK-02  
 DESIGN STANDARDS ENGINEER: Elizabeth W. Phillips  
 DATE: 03/16/16  
 CHIEF ENGINEER: Mark A. Miller  
 DATE: 03/16/16

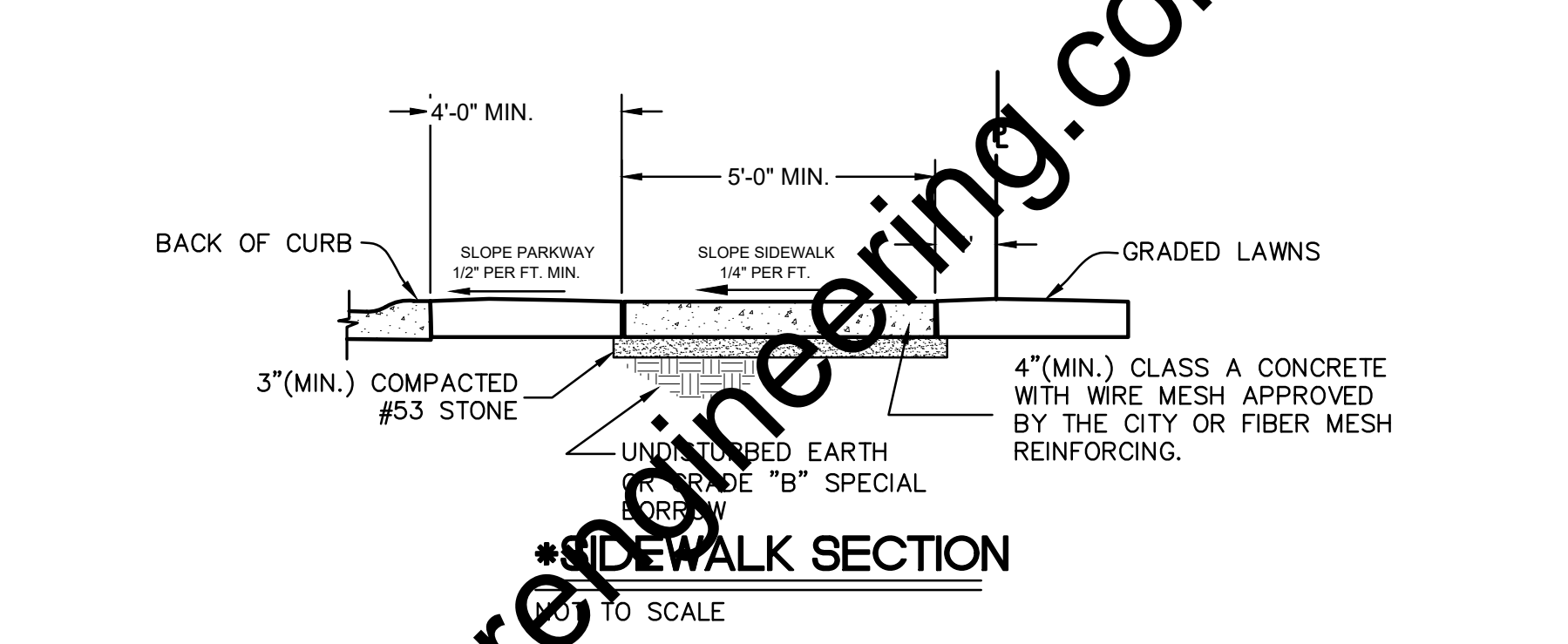


**COMMERCIAL**  
 CONCRETE OR ASPHALT

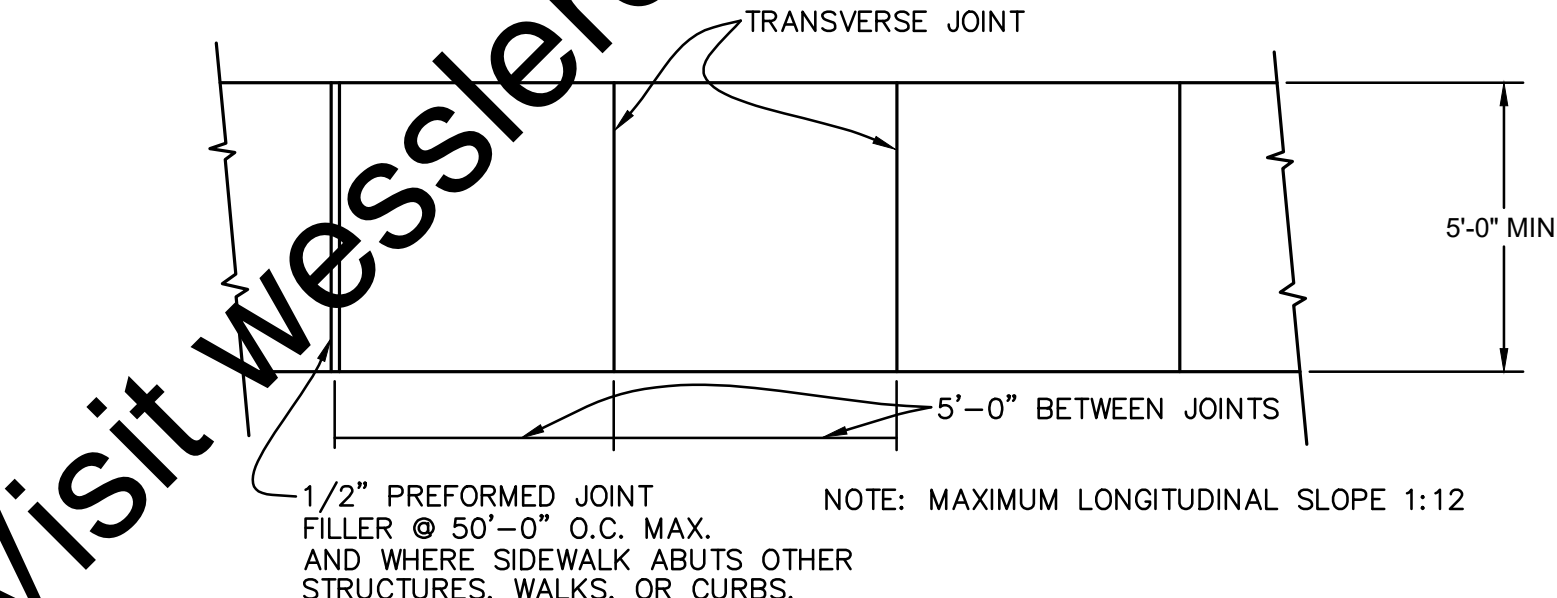


**RESIDENTIAL**  
 CONCRETE OR ASPHALT

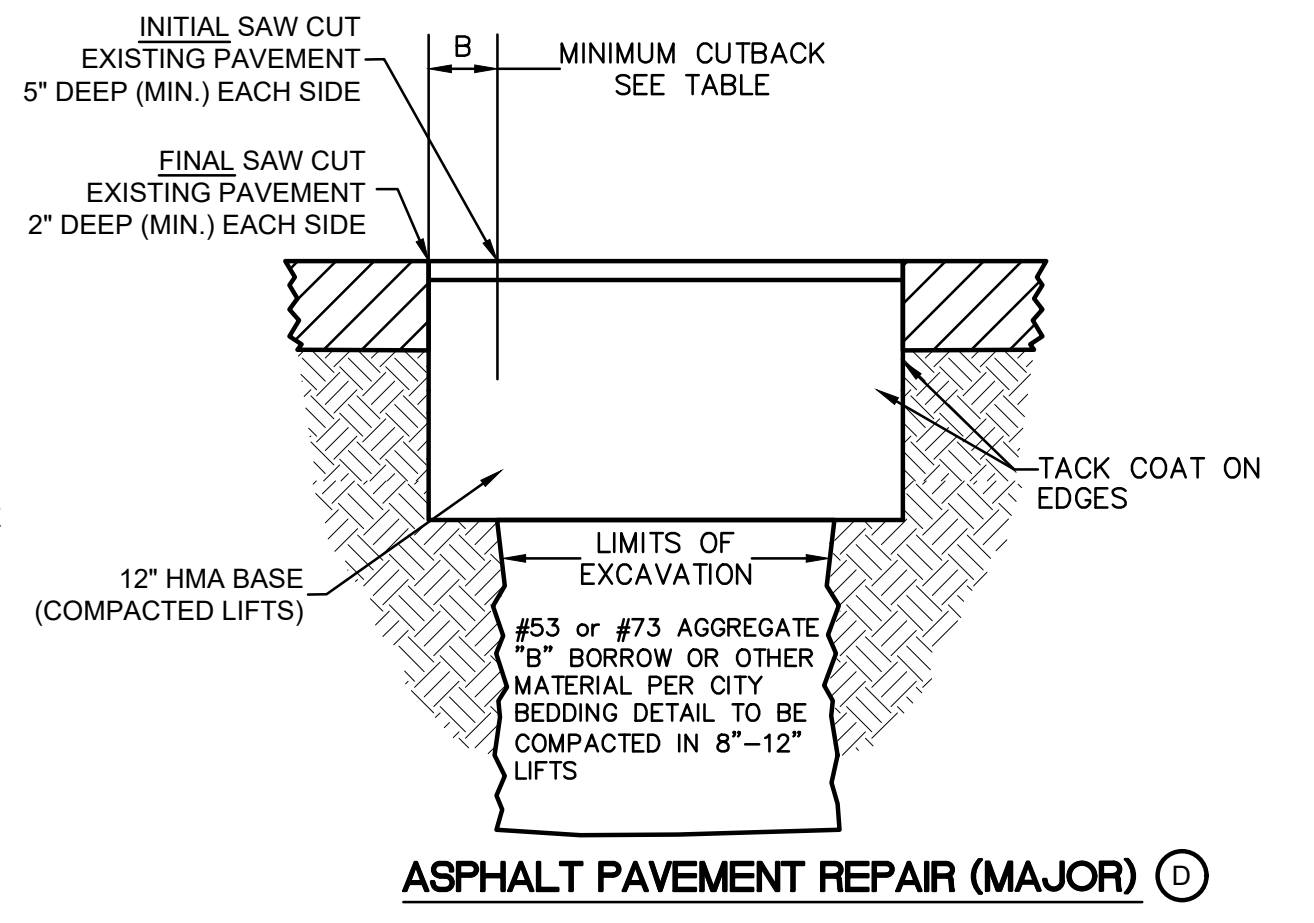
**\*MINIMUM REQUIRED APPROACH SECTION FOR PRIVATE DRIVES**



**\*SIDEWALK SECTION**  
 NOT TO SCALE



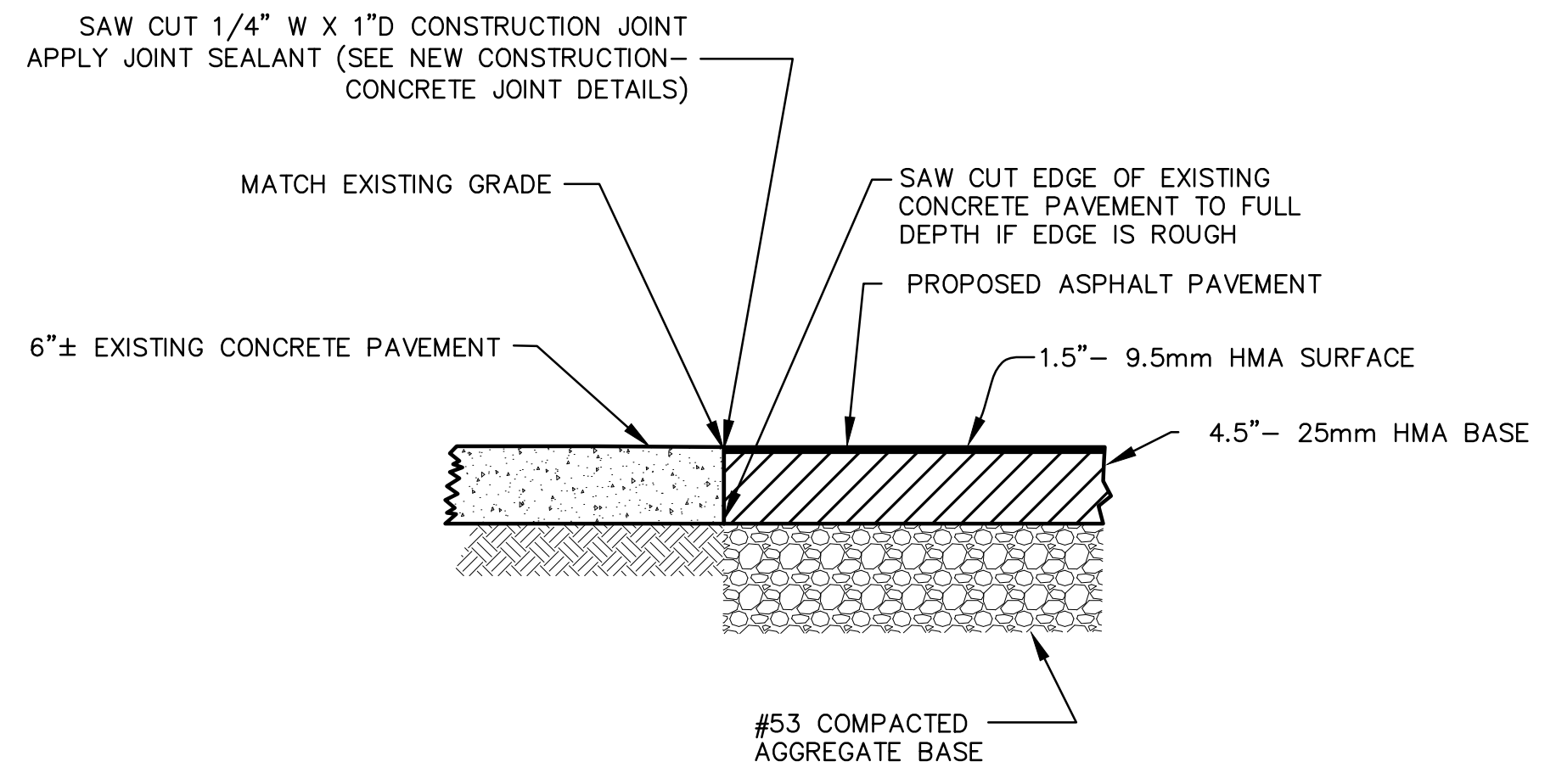
**\*SIDEWALK PLAN**  
 NOT TO SCALE



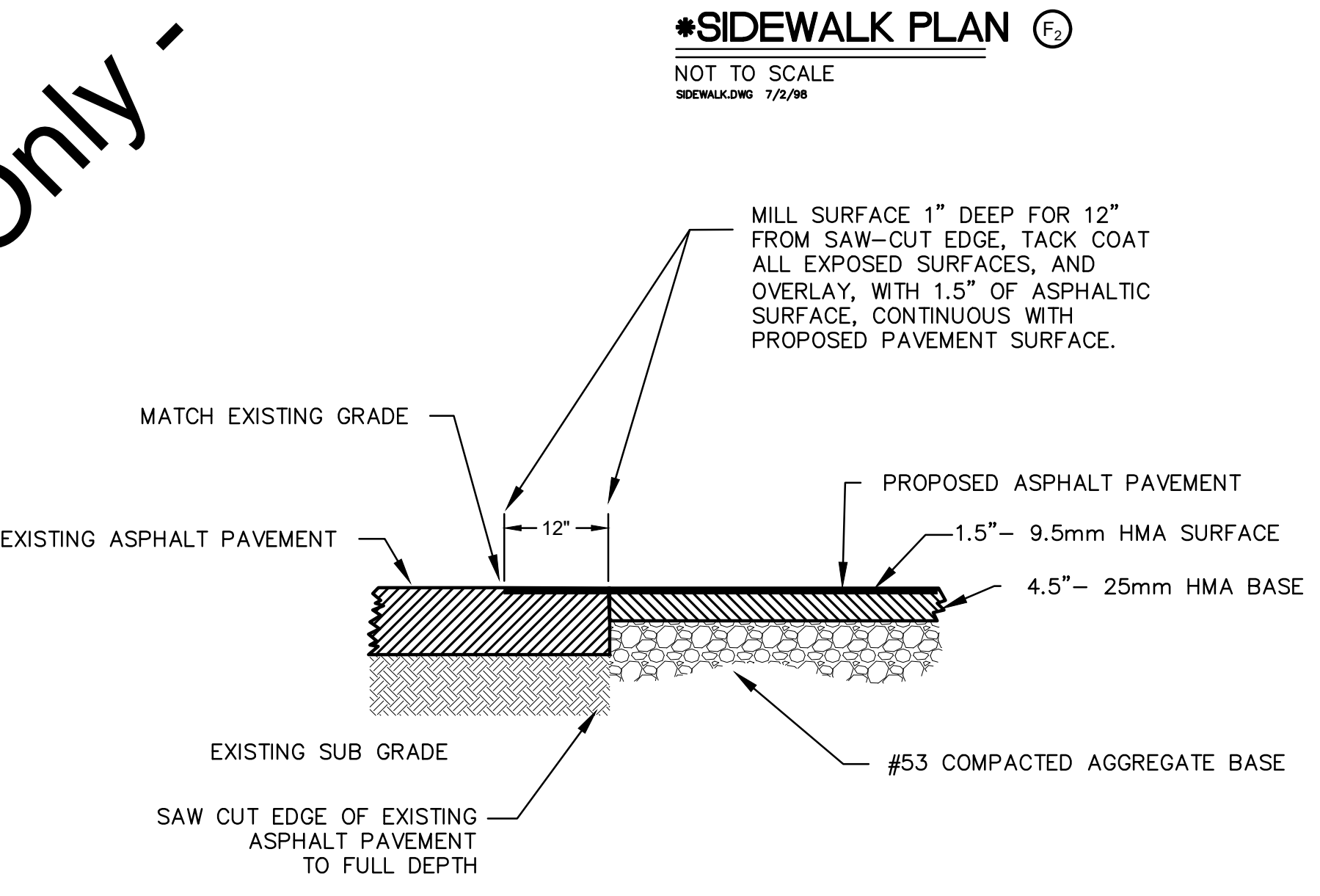
**ASPHALT PAVEMENT REPAIR (MAJOR)**

FINAL CUTBACK TABLE	
B	TRENCH WIDTH
6"	3'-0" OR LESS
9"	3'-1" TO 5'-0"
12"	5'-1" OR GREATER

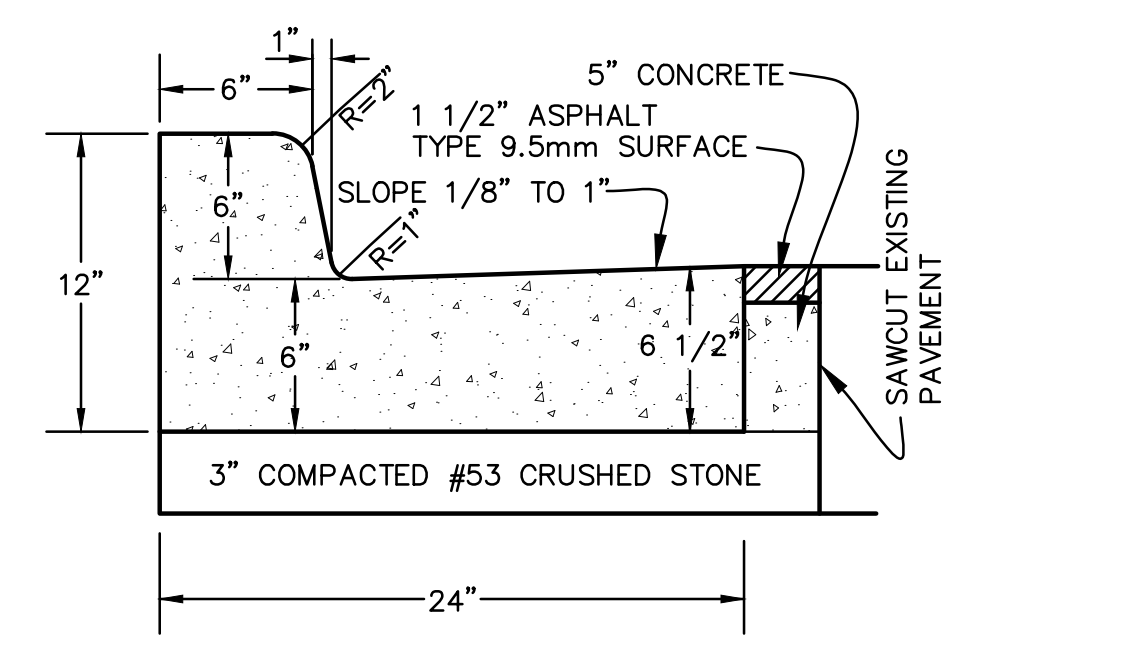
**\*PERMANENT PAVEMENT RESTORATION**  
 NOT TO SCALE



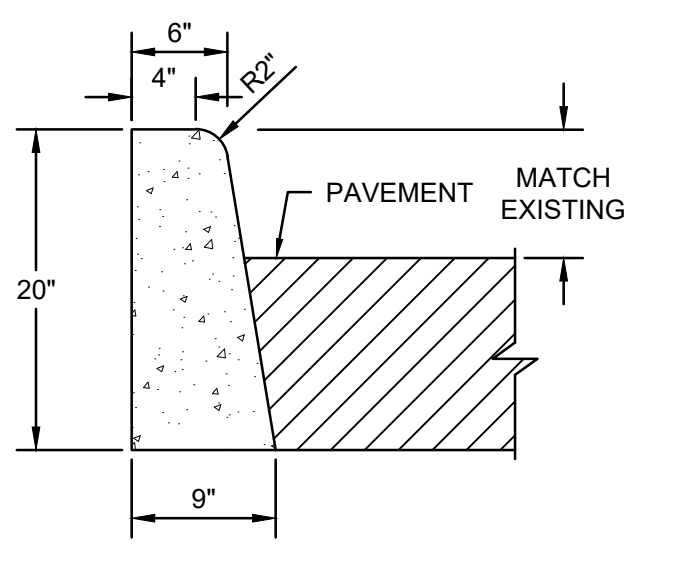
**\*BUTT JOINT DETAIL**  
 NOT TO SCALE



**\*LAP JOINT DETAIL**  
 NOT TO SCALE



**\*COMBINED CONC. CURB AND GUTTER**  
 NOT TO SCALE



**CONCRETE CURB**  
 SCALE: NONE

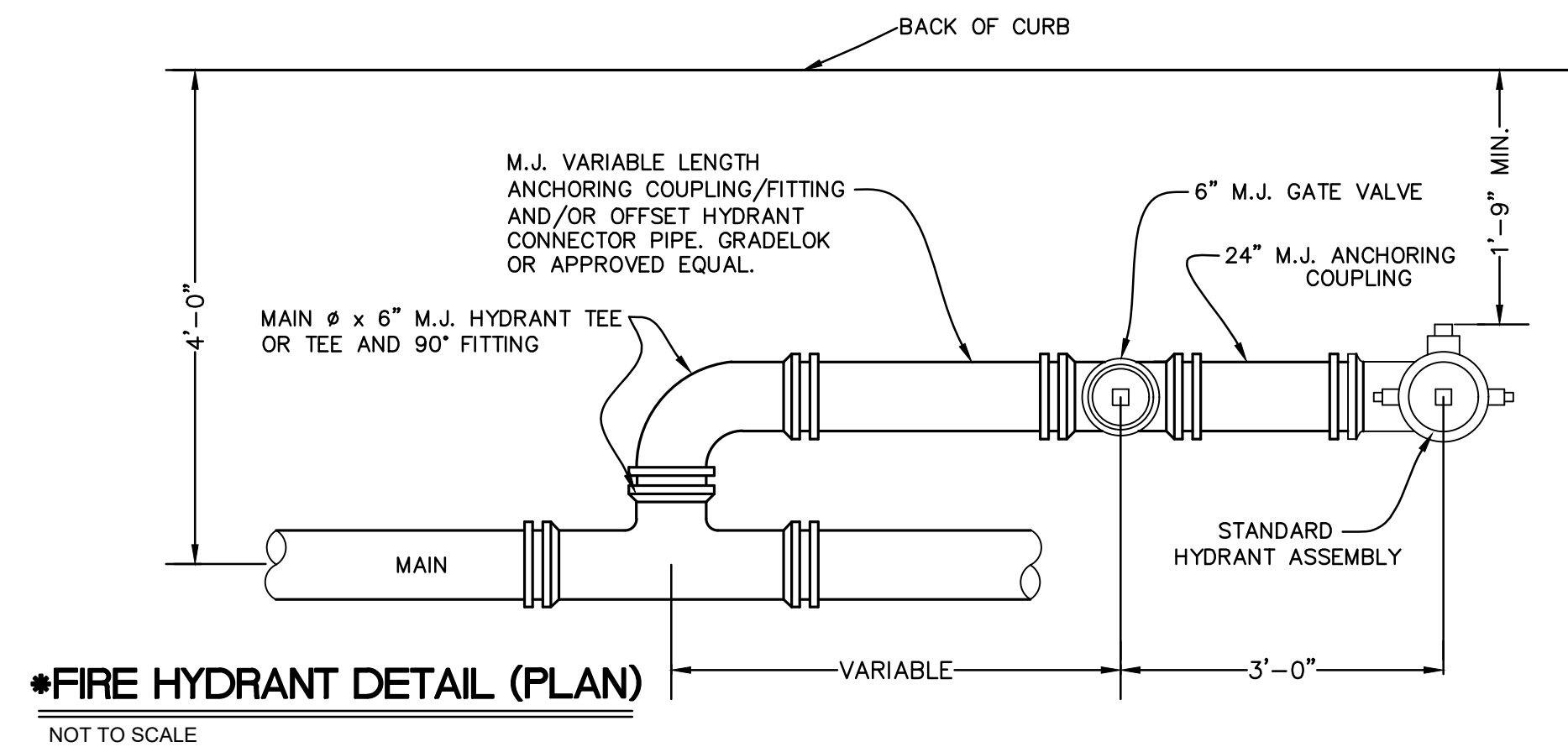
NOTE:  
 \*DETAIL ON THIS SHEET IS AS OBTAINED FROM  
 "CITY OF LAFAYETTE, INDIANA - TYPICAL  
 CONSTRUCTION GUIDELINES AND DETAILS", 2013  
 EDITION

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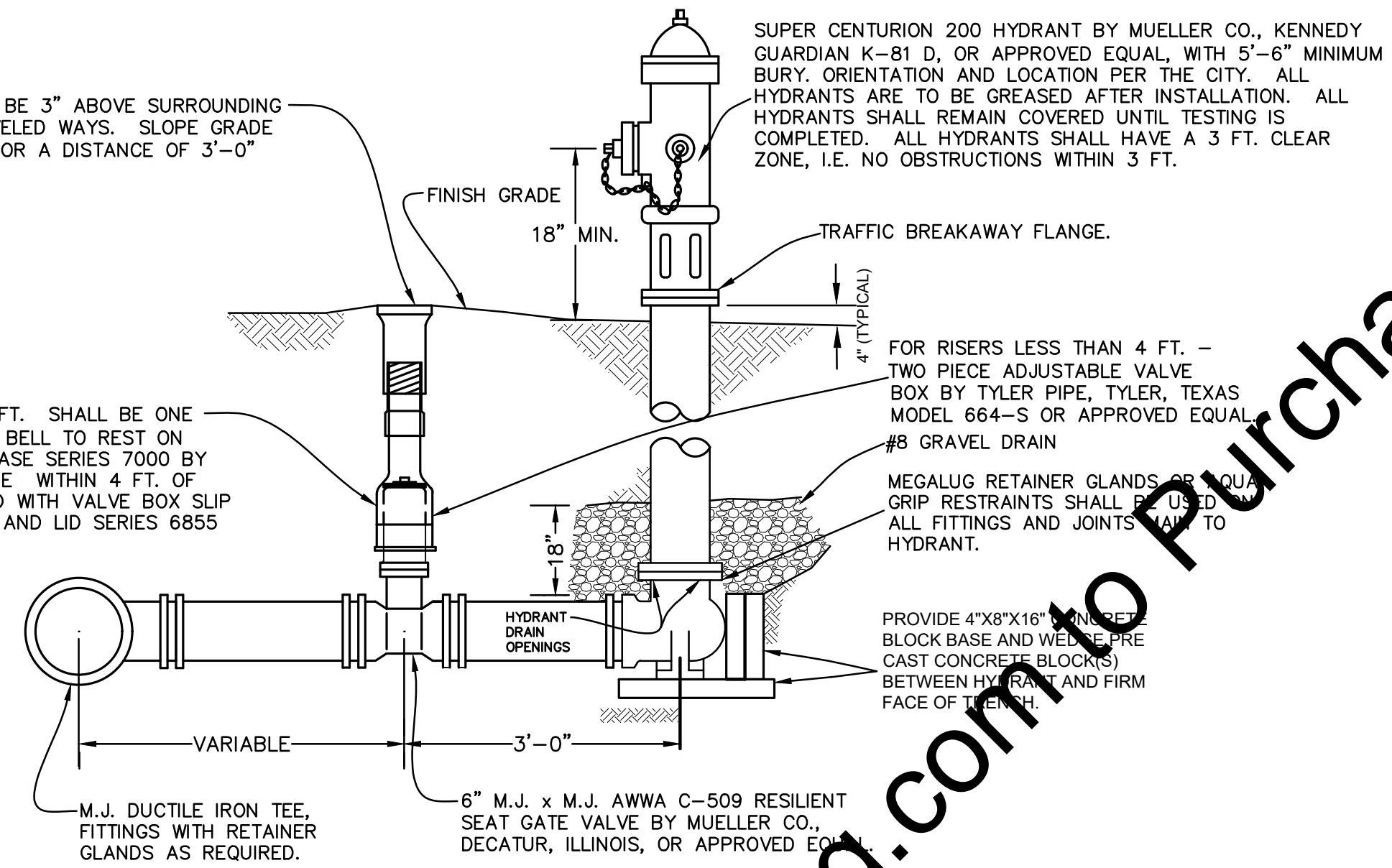
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SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING	DRAWN BY	JRW	NO.	DATE	INITIALS	REVISION DESCRIPTIONS			<b>CASON STREET WATER MAIN EXTENSION</b> LAFAYETTE WATER WORKS LAFAYETTE, INDIANA <b>MISCELLANEOUS DETAILS</b>	SHEET NO.	<b>16</b>
	CHECKED BY	LHR								TOTAL SHEETS	<b>20</b>
	APPROVED BY	ADG									
	ISSUE DATE	NOVEMBER 2019									
	PROJECT NUMBER	201918-04-002									

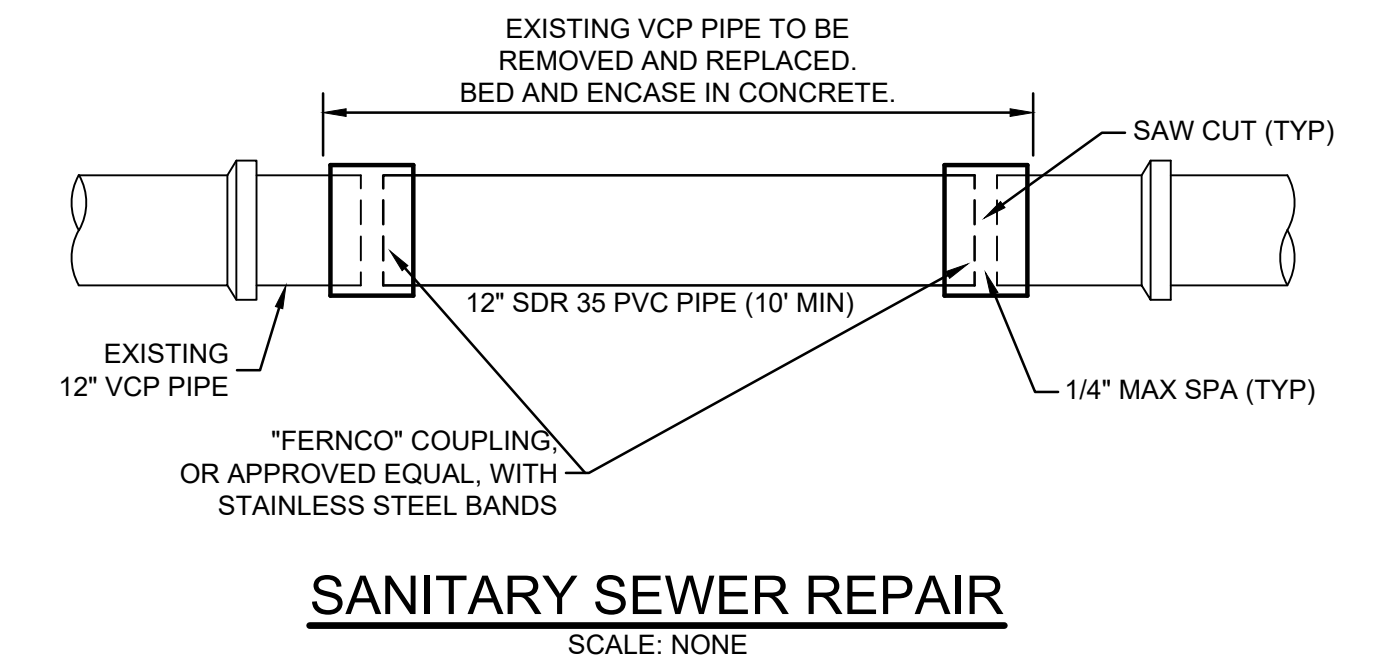




TOP OF VALVE BOX TO BE 3" ABOVE SURROUNDING GRADE EXCEPT IN TRAVELED WAYS. SLOPE GRADE AWAY FROM THE BOX FOR A DISTANCE OF 3'-0" IN ALL DIRECTIONS.



**NOTE: FIRE HYDRANTS USED AS AIR RELEASE**  
1) PROVIDE POSITIVE SLOPE UPWARD FROM HYDRANT TEE TO FIRE HYDRANT BASE.  
2) M.J. DUCTILE IRON PIPE AND FITTINGS WITH RETAINER GLANDS AT EACH FITTING REQUIRED.  
3) TEE INTO MAIN AT TOP OF PIPE.

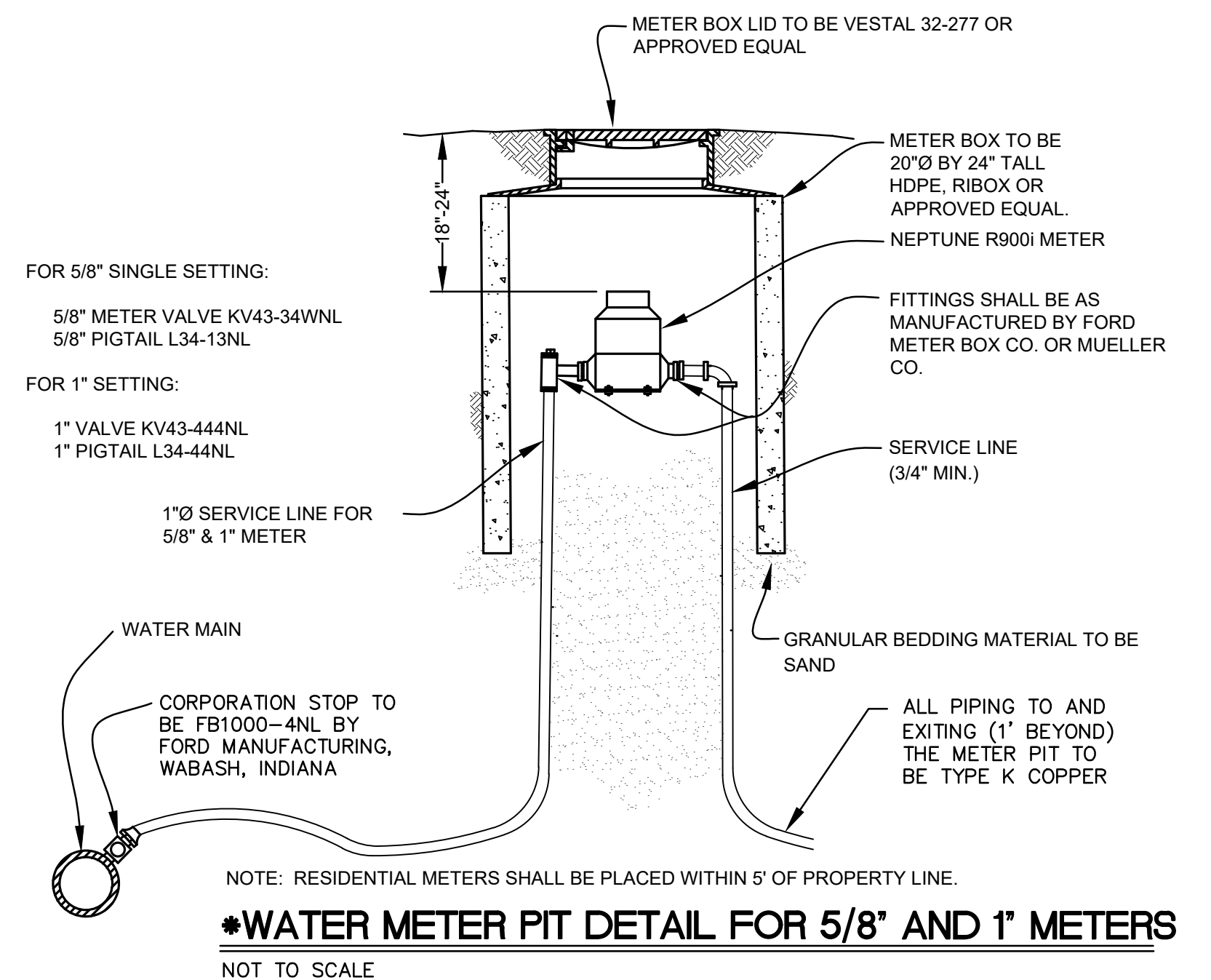
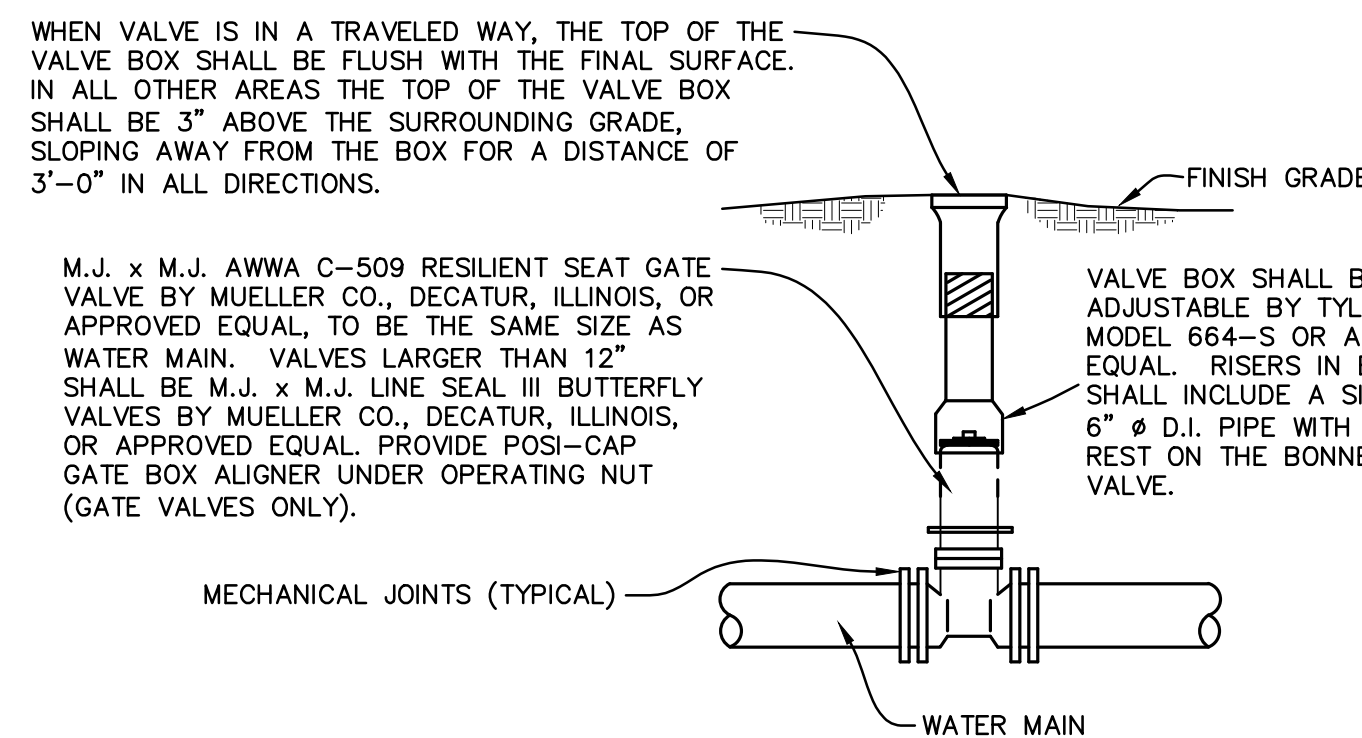


**\*WATER MAIN NOTES**

- ALL WATER MAINS SHALL BE CEMENT LINED DUCTILE IRON (D.I.) (PRESSURE CLASS 250 MIN., SLIP JOINT PIPE CONFORMING TO AWWA C-110, C-111, C-150 AND C-151 AS APPLICABLE AND NSF-61.
- ALL WATER MAINS TO HAVE POLY-WRAP.
- ALL FITTINGS TO BE DUCTILE IRON (D.I.) WITH MECHANICAL JOINTS (M.J.) CONFORMING TO AWWA C-110, C-111, C-153 AND NSF-61.
- ALL WATER SERVICE LINES SHALL BE 1" DIAMETER (MINIMUM) TYPE K COPPER TUBING TERMINATING WITH A CURB STOP. SERVICE LINE LOCATIONS SHALL BE MARKED BY STAMPING OR SAW CUTTING A "W" IN THE CURB. THE CURB STOP/WATER SERVICE SHOULD BE LOCATED ON P/L OR WITHIN 5'.
- THE MANUFACTURER'S ALLOWABLE PIPE DEFLECTION SHALL BE USED TO MAINTAIN THE VERTICAL AND HORIZONTAL ROUTE UNLESS OTHER FITTINGS (I.E. TEES AND ELBOWS) OR METHODS ARE SPECIFICALLY CALLED OUT, OR ARE DIRECTED BY THE CITY.
- MEG-A-LUG RETAINER GLANDS BY EUBA IRON, INC., EASTLAND, TEXAS SHALL BE USED ON EACH SIDE OF FITTINGS WHERE THE WATER MAIN CHANGES DIRECTION. ADDITIONAL SETS OF RETAINER GLANDS ARE TO BE PLACED AT PIPE LENGTHS ABOVE AND BELOW THE FITTINGS AS REQUIRED (SEE DETAIL 08 ON THIS SHEET). FIELD-LOK GASKETS OR ONE BOLT RESTRAINED FITTINGS CAN BE USED IN LIEU OF RETAINER GLANDS.
- THE MINIMUM SIZE REQUIREMENT FOR ALL COMMERCIAL WATER SERVICE LATERALS IS ONE (1) INCH (1" SERVICE LINE AND 1" METER).
- ALL INDUSTRIAL/COMMERCIAL DEVELOPMENTS SHALL HAVE A MINIMUM 6" X "MAIN SIZE" TEE INSTALLED TO EACH PROPOSED LOT FOR FUTURE FIRE/ DOMESTIC SERVICE.
- WATER MAINS SHALL HAVE A MINIMUM OF 5'-0" COVER. WATER MAIN COVER SHALL NOT EXCEED 11' WITHOUT CITY APPROVAL. ANY DEVIATIONS FROM PLAN GRADE MUST BE SHOWN ON THE "AS-BUILT" DRAWINGS.
- DEVELOPMENT OF PROPERTY MAY REQUIRE CONSTRUCTION OF ADDITIONAL FIRE HYDRANTS, GENERALLY AT 500' MINIMUM INTERVAL, AND AS REQUIRED BY THE LAFAYETTE FIRE DEPARTMENT.
- THE COMPLETED WATER MAIN SHALL BE SUBJECTED TO A 150 PSI HYDROSTATIC TEST AND SHALL BE DISINFECTED. ALL VALVES AND HYDRANTS MUST BE COMPLETELY OPENED AND CLOSED AND ALL CORPORATION STOPS AND SERVICE LINES IN PLACE PRIOR TO PERFORMING THE HYDROSTATIC TEST. THE HYDROSTATIC TEST SHALL BE OF AT LEAST 2-HR DURATION. TEST PRESSURE SHALL NOT VARY MORE THAN +/- 5 PSI FOR THE DURATION OF THE TEST. GAUGES FOR TESTING SHALL BE RATED FOR 200 PSI OR GREATER AND SHALL INDICATE PRESSURE IN 5 PSI (MAX) INCREMENTS. THE TEST WILL BE PERFORMED IN ACCORDANCE WITH CITY TESTING PROCEDURES, AND IN CONFORMANCE WITH AWWA C-600. ALL VALVES INCLUDING THE WATCH VALVES AT THE HYDRANTS SHALL BE OPEN DURING THE PRESSURE AND BACTERIA TESTS. HYDROSTATIC AND BACTERIAL TESTING SHALL BE COMPLETED WITHIN 30 DAYS AFTER THE COMPLETED WATER MAIN HAS BEEN CHARGED (FILLED). AFTER FINAL FLUSHING AND AGAIN AFTER 24 HOURS, SAMPLES SHALL BE COLLECTED FROM THE WATER MAIN, AND SHALL BE TESTED FOR BACTERIOLOGICAL QUALITY IN ACCORDANCE WITH THE STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER (AT AN APPROVED

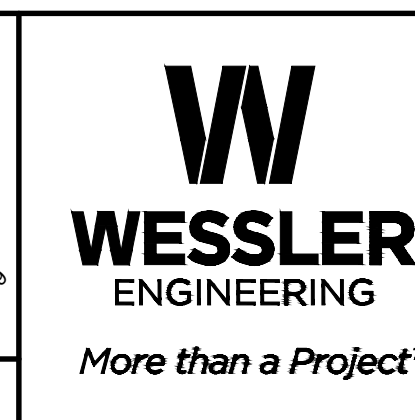
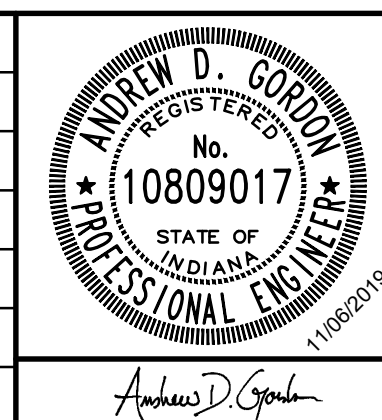
- LABORATORY), AND SHALL SHOW THE ABSENCE OF COLIFORM ORGANISMS. THE CONTRACTOR MUST CONTACT THE WATER WORKS PUBLIC WORKS INSPECTOR TO DETERMINE THE LOCATION AND NUMBER OF BACTERIA SAMPLES TO BE TAKEN, AND TO SET A SAMPLING DATE AND TIME. THE ORIGINALS OF ALL TEST RESULTS AND CHAIN OF CUSTODY FORMS ARE TO BE SENT TO THE WATER WORKS WITHIN 5 DAYS OF TESTING WITH A COPY TO THE CITY ENGINEER'S OFFICE.
- VALVE OPENING DIRECTION SHALL BE CONSISTENT WITH THE EXISTING UTILITY SYSTEM. (LEFT HAND OPEN/COUNTER CLOCKWISE) VALVE LOCATIONS SHALL BE MARKED BY STAMPING OR CUTTING A "V" IN THE CURB, AND PLACING A PARTIALLY BURIED 2x4 AT THE LOCATION.
- TRENCHES UNDER PAVED AREAS (EXCLUDING SIDEWALKS) SHALL BE BACKFILLED WITH GRANULAR MATERIAL PER INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", LATEST EDITION, SECTION 211, AND COMPACTED IN LIFTS. GRANULAR MATERIAL TO EXTEND FIVE FEET BEYOND THE LIMITS OF THE PAVED AREA WITH A 1:1 SLOPE TO THE BOTTOM OF THE TRENCH. GRANULAR BEDDING IS REQUIRED UNDER ALL PAVED AREAS (EXCLUDING SIDEWALKS).
- 18" VERTICAL SEPARATION AND 10'-0" HORIZONTAL SEPARATION TO BE MAINTAINED BETWEEN WATER MAINS, HYDRANTS AND SEWERS (SANITARY AND STORM).
- TAPS AND FITTINGS ARE NOT TO BE INSTALLED UNDER PAVEMENTS OR IN EASEMENTS WITHOUT PRIOR APPROVAL OF THE CITY.
- WATER WORKS ONLY SHALL OPEN VALVES TO CHARGE NEW LINES.
- TAPPING OF A CITY MAIN CAN ONLY BE DONE UNDER SUPERVISION OF THE CITY. TAPPING SLEEVES AND VALVES FOR PRESSURE TAPS ON MAINS UP TO 24" SHALL BE MUELLER 304-SS. TAPPING VALVES SHALL BE 2360 SERIES BY MUELLER OR THE AFO 2500. TEES FOR MAINS WILL BE CUT-IN ONLY WHEN THE NEW MAIN IS TO BE LARGER THAN OR OF EQUAL SIZE TO THE EXISTING MAIN OR WHEN A NEW VALVE IS TO BE INSTALLED ON THE EXISTING MAIN NEAR THE LOCATION OF THE NEW TEE. SIZE-ON-SIZE IS PERMISSIBLE FOR MAINS 12" AND UNDER. STAINLESS STEEL SLEEVES SHALL MEET THE FOLLOWING REQUIREMENTS:  
A. DUCTILE IRON OR STAINLESS STEEL FLANGE.  
B. 304 STAINLESS STEEL FULL BODY WITH STAINLESS STEEL BOLTS AND NUTS.
- WATER TAP SERVICE TO BE PROVIDED FOR BOTH SHORT AND LONG SIDES.
- ALL FIRE PLANS, SPRINKLER PLANS SHALL BE SUBMITTED TO THE LAFAYETTE FIRE DEPARTMENT (LFD) FOR REVIEW AND APPROVAL.
- FLOW TEST DATA SHALL BE OBTAINED BY THE DEVELOPER/OWNER AT NO COST TO THE CITY AND UNDER THE SUPERVISION OF THE LFD AND WATER WORKS DEPT. TEST RESULTS AND LFD CERTIFICATION TO BE SUBMITTED TO THE CITY ENGINEER'S OFFICE.
- ALL DOMESTIC (LAWN) SPRINKLER SYSTEMS SHALL BE 1-INCH SERVICE.
- WHENEVER PROPRIETARY EQUIPMENT IS SPECIFIED, OR APPROVED EQUAL IMPLIED, PROPOSALS FOR SUBSTITUTION SHALL BE SUBMITTED TO THE CITY IN WRITING FOR THEIR APPROVAL.
- CITY APPROVED BACKFLOW PREVENTER REQUIRED ON ALL IRRIGATION SERVICES.

- TRACER WIRE: REQUIRED FOR 12" OR GREATER TRANSMISSION MAINS (NOT REQUIRED FOR SUBDIVISIONS):  
A. TRACER WIRE SHALL BE PLACED ON TOP OF THE WATER MAIN AS THE MAIN IS INSTALLED.  
B. THE TRACER WIRE SHALL BE #10 - 600V SOLID COPPER WIRE WITH BLUE COLORED INSULATION BY SOUTHWIRE, OR APPROVED EQUAL.  
C. ANY SPLICES THAT NEED TO BE MADE SHALL BE MADE USING WATER TIGHT WIRE NUTS AND TAPED TO INSURE A DRY AND TIGHT CONNECTION IS MAINTAINED.  
D. THE LOCATED LOOP SHALL BE BROUGHT TO THE SURFACE BY MEANS OF A CURB BOX PLACED AT EACH VALVE AND FIRE HYDRANT, OR PER THE DIRECTION OF THE CITY WATER WORKS DEPT.  
E. THE CURB BOX SHALL BE PLACED ON A 4"x8"x16" SOLID BLOCK TO ALLOW THE TRACER WIRE TO BE TURNED UP WITHOUT THE CHANCE OF DAMAGE TO THE WIRE. THERE SHALL BE A SIGNIFICANT AMOUNT OF WIRE LEFT AT EACH LOCATION SO THAT THE UTILITY LOCATER CAN, WITH EASE ATTACH LOCATE EQUIPMENT.
- METER TO BE SUPPLIED BY OWNER EXCEPT FOR SINGLE-FAMILY DOMESTIC USES.
- IN SUBDIVISION WITH PHASED CONSTRUCTION, WATER MAINS ARE TO BE TERMINATED WITH A FIRE HYDRANT AND A LINE VALVE THE SAME SIZE AS THE MAIN WHEN THE MAIN IS TO BE EXTENDED IN THE FUTURE. EXTENSION, THE FIRE HYDRANT MAY BE MOVED TO AN APPROVED LOCATION.



**NOTE:**  
\*DETAIL ON THIS SHEET IS AS OBTAINED FROM "CITY OF LAFAYETTE, INDIANA - TYPICAL CONSTRUCTION GUIDELINES AND DETAILS", 2019 EDITION

SCALE VERIFICATION	DRAWN BY	JRW	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	LHR				
	APPROVED BY	ADG				
	ISSUE DATE	NOVEMBER 2019				
	PROJECT NUMBER	201918-04-002				

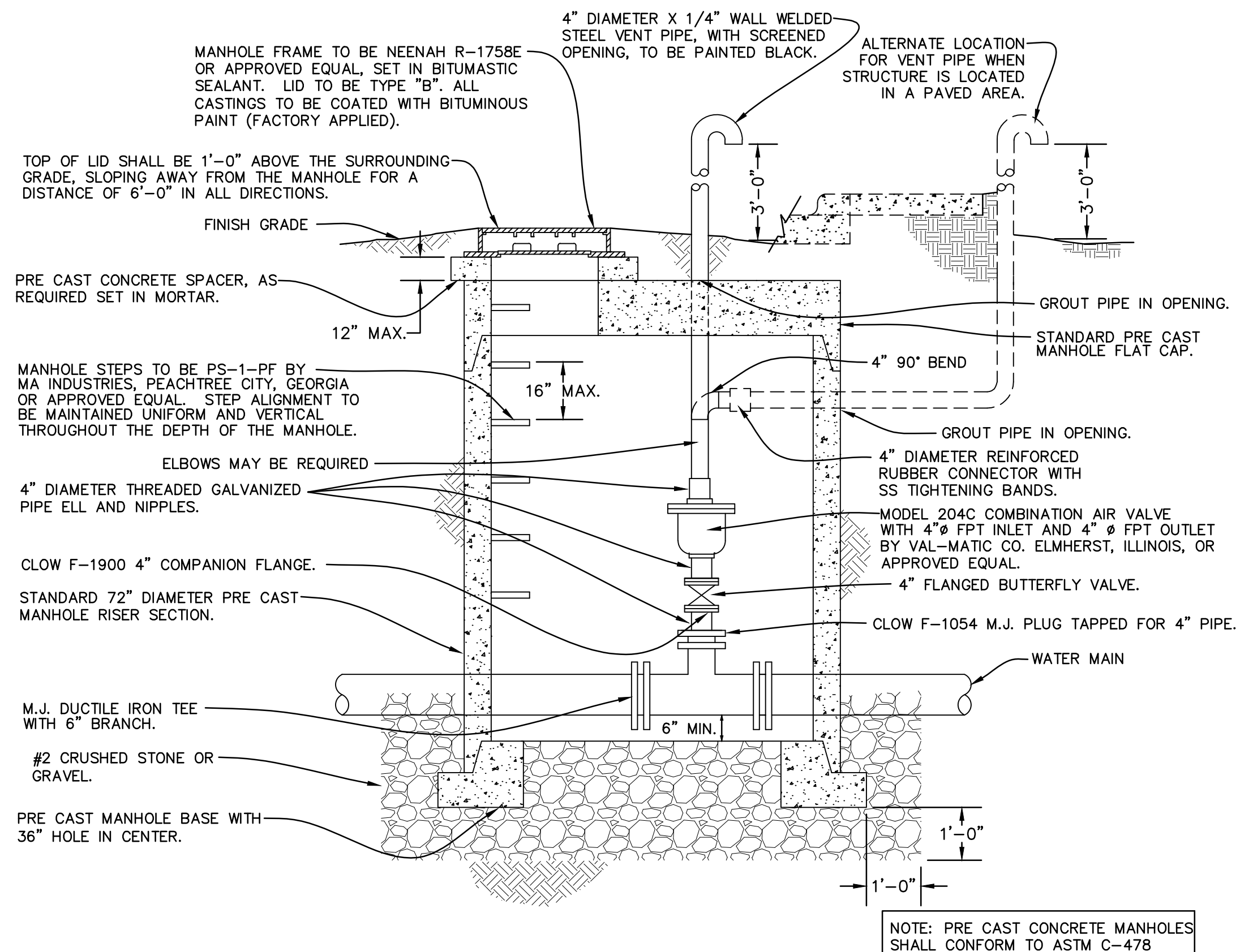


**CASON STREET WATER MAIN EXTENSION**

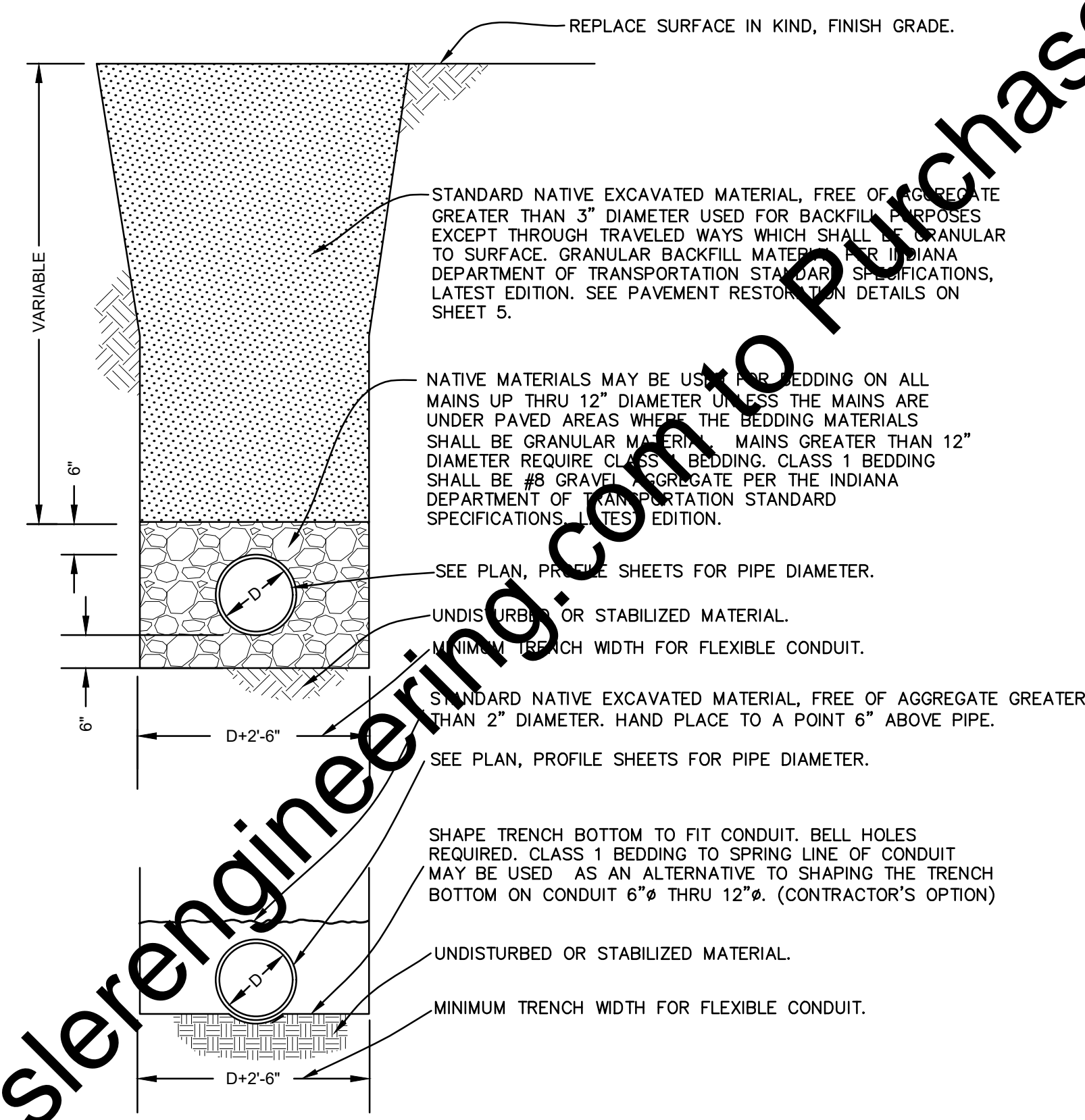
LAFAYETTE WATER WORKS  
LAFAYETTE, INDIANA

**MISCELLANEOUS DETAILS**

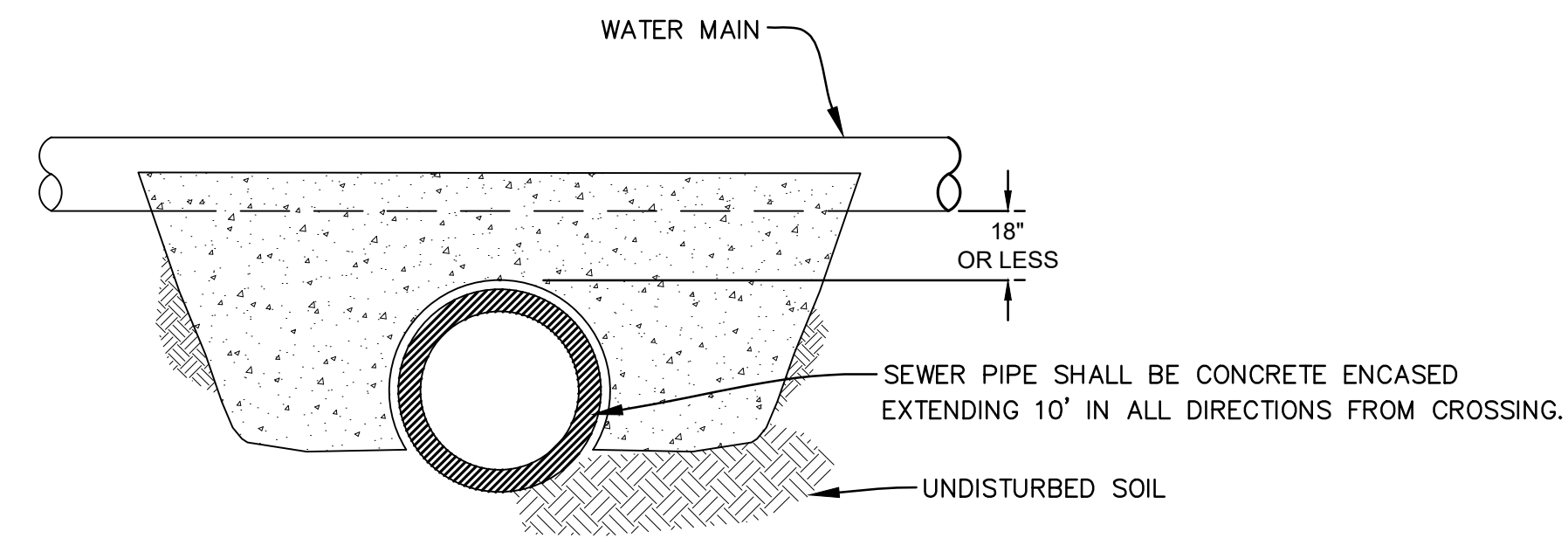
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**WATER MAIN AIR RELIEF MANHOLE (LARGER THAN 18" MAIN)**  
NOT TO SCALE



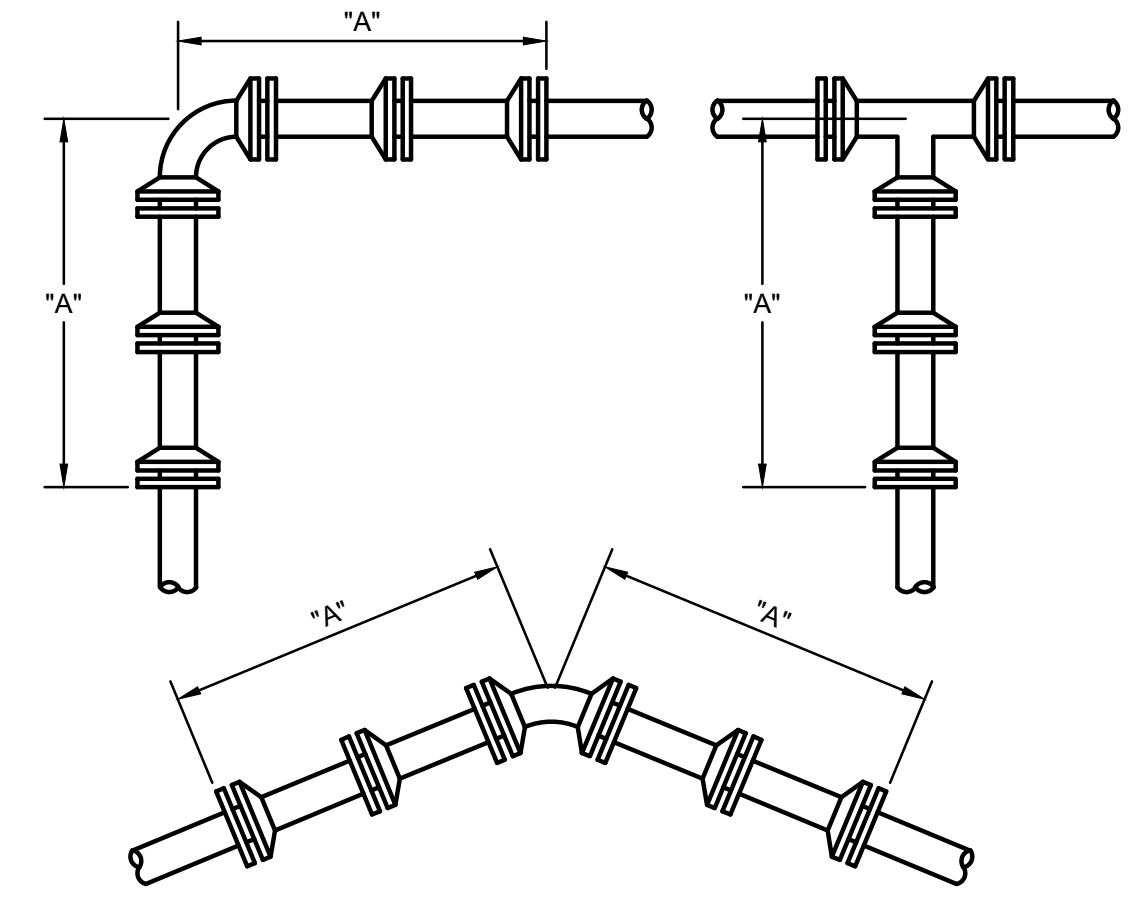
**\*STANDARD BEDDING DETAIL**  
NOT TO SCALE



NOTE: THIS DETAIL TO BE USED WHEN A MAIN, SEWER OR WATER, CROSSES WITHIN 18" OF ANOTHER PIPE OR CONDUIT.

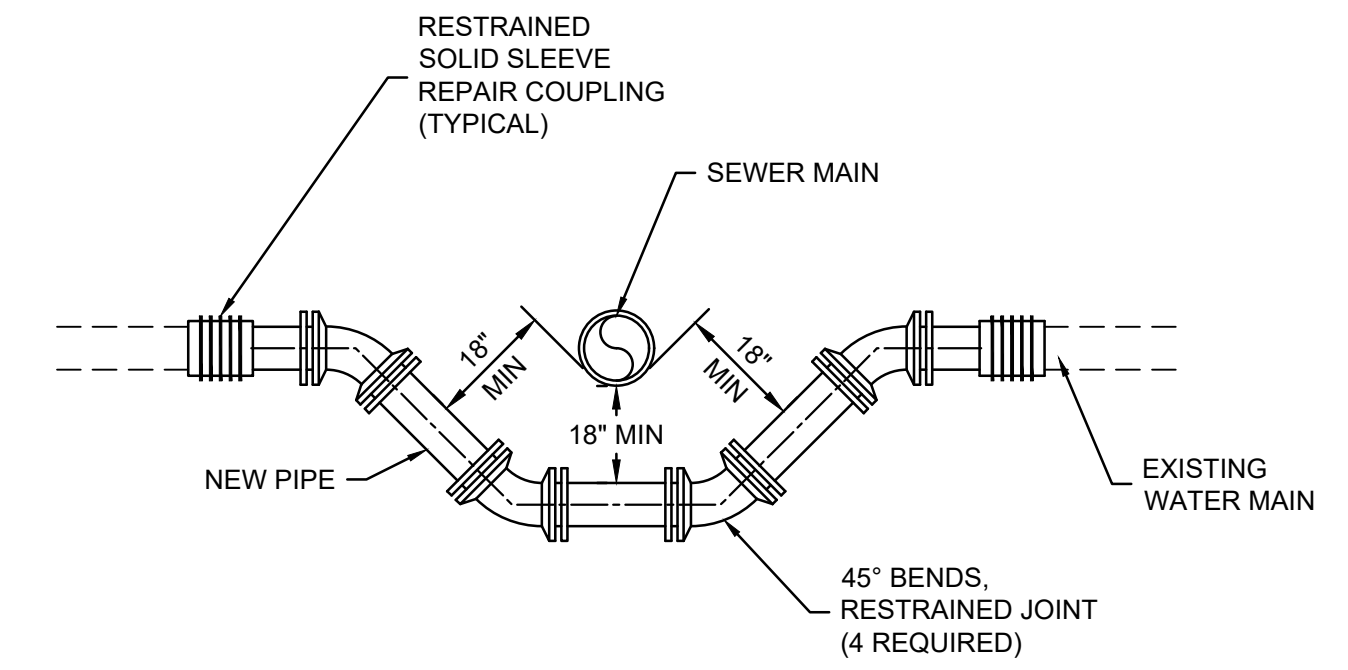
**\*PIPE CROSSING DETAIL**  
NOT TO SCALE  
PIPE-XLW 7/2/98

FEET OF RESTRAINED PIPE @ 155 PSI ON EACH SIDE OF FITTING (SEE NOTE 1)		
WATER MAIN SIZE		
FITTING TYPE	24 INCH	30 INCH
<b>HORIZONTAL BEND</b>		
22 1/2"	11	13
45"	22	26
90"	53	63
<b>VERTICAL BEND</b>		
22 1/2"	28	33
45"	57	69
90"	137	165
<b>REDUCERS</b>		
MAIN SIZE x 24"	--	58
<b>OTHER FITTINGS</b>		
TEE OUTLET	0	0
VALVE OR PLUG	137	165
DEAD END	137	165



NOTES:  
1. MAXIMUM OF TABLE OR 1 LENGTH OF PIPE

**WATER MAIN RESTRAINED PIPING**  
NOT TO SCALE



**WATER MAIN LOWERING**  
NOT TO SCALE

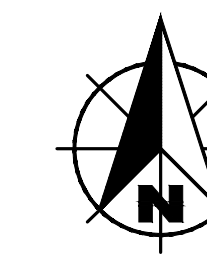
NOTE:  
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EDITION

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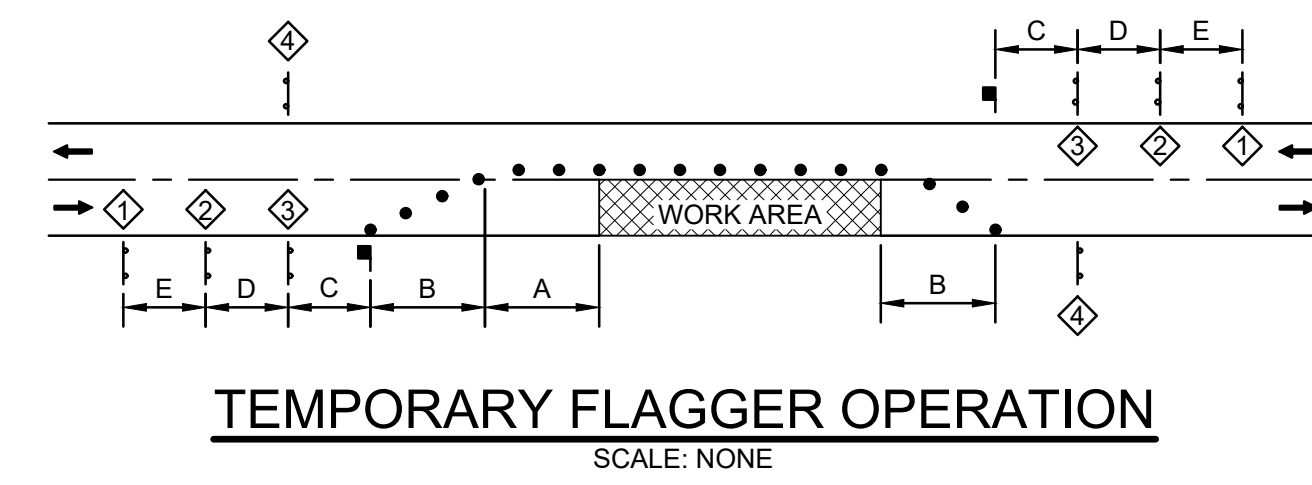
- CONSTRUCTION AREA - ROAD CLOSURE
- DETOUR PHASE II
- ⑪ "ROAD CLOSED AHEAD" (W20-3)
- ⑫ "DETOUR(WITH DISTANCE)" (W20-2)
- ⑮ □ ROAD CLOSURE SIGN ASSEMBLY, INCLUDES R11-2, BARRICADE TYPE III B, AND TYPE B CONSTRUCTION WARNING LIGHT
- ⊠ WORK AREA(S)
- ⊗ TYPE A CONSTRUCTION WARNING LIGHT
- ◇ "ROAD WORK AHEAD" (W20-1) OR "UTILITY WORK AHEAD" (W21-7)
- ◇ "ONE LANE ROAD AHEAD" (W20-4)
- ◇ FLAGGER SIGN (W20-7)
- ◇ "END ROAD WORK" (G20-2)
- TRAFFIC CONTROL DRUM
- TRAFFIC FLOW DIRECTION
- FLAGGER
- ↑ SIGN, FACING LEFT
- ↓ SIGN, FACING RIGHT

**TRAFFIC CONTROL LEGEND**  
SCALE: NONE

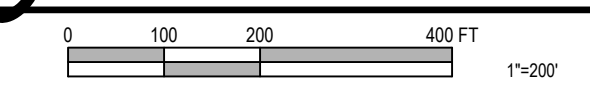
SPEED (MPH)	DISTANCE (FEET)				
	A	B	C	D	E
20 OR LESS	120	100	100	100	100
25	160	100	100	100	100
30	200	100	100	100	100
35	280	100	350	350	350
40	320	100	350	350	350
45	360	100	500	500	500
50	440	100	500	500	500
55	520	100	500	500	500
60	600	100	1,000	1,600	2,640
65	680	100	1,000	1,600	2,640
70	760	100	1,000	1,600	2,640

- NOTES:**
- DISTANCES SHOWN ARE APPROXIMATE. ADJUST SIGN FOR CURVES, HILLS, INTERSECTIONS, DRIVEWAYS, ETC TO IMPROVE SIGN VISIBILITY.
  - THE SPACING OF CHANNELIZING DEVICES SHOULD BE A DISTANCE IN FEET EQUAL TO THE SPEED LIMIT IN MPH WHEN USED FOR TAPER CHANNELIZATION, AND A DISTANCE IN FEET EQUAL TO 2.0 TIMES THE SPEED LIMIT IN MPH USED FOR TANGENT CHANNELIZATION.

**ADVANCE WARNING SIGN AND FLAGGER OPERATION SPACING**  
SCALE: NONE

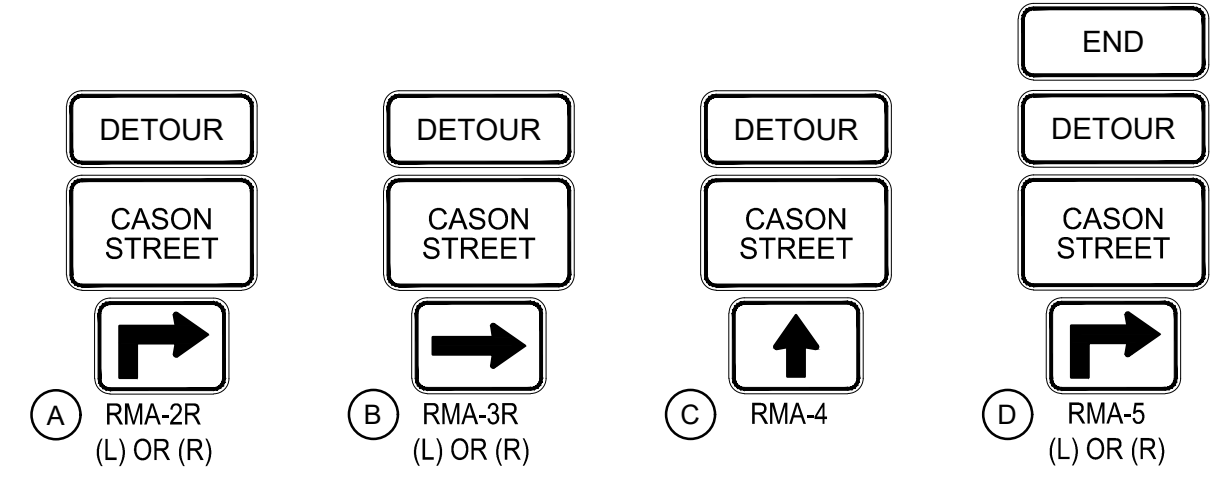


**MAINTENANCE OF TRAFFIC - DETOUR PLAN PHASE II**



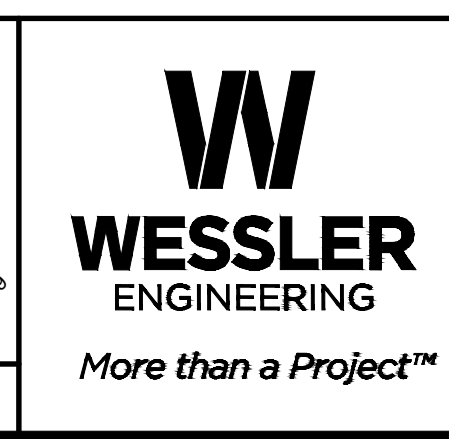
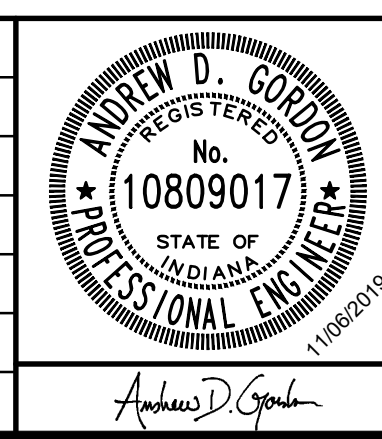
**TRAFFIC CONTROL NOTES:**

- PROVIDE SIGNS AND PLACEMENT OF SIGNS IN COMPLIANCE WITH THE MUTCD (LATEST EDITION) AND THE CURRENT INDOT STANDARDS.
- WHEN ADDITIONAL WORKING SPACE IS NEEDED, UTILIZE THE FLAGGER OPERATION TO MAINTAIN ONE TRAVEL LANE.
- COVER SIGNS, AS APPROPRIATE, WHEN WORK IS NOT IN PROGRESS.
- DURING CONSTRUCTION MINIMIZE DAMAGE TO THE EXISTING PAVEMENT, DRIVES, CURBS AND SIDEWALKS.
- BACKFILL EXCAVATIONS IN THE PAVEMENT AREAS DAILY AND TEMPORARILY COVER ANY OPENINGS WITH STEEL PLATES UNTIL PAVEMENT IS REPLACED.
- DO NOT CLOSE TWO ADJACENT CROSS STREETS OR INTERSECTIONS AT THE SAME TIME.
- RECOMMENDED DETOUR ROUTE FOR CASON STREET IS: 22ND STREET, FERRY STREET, 30TH STREET.
- SUBMIT A DETAILED DETOUR ROUTE PLAN AND TIMELINE FOR APPROVAL 2 WEEKS PRIOR TO ANY CLOSURES.
- PROTECTION OF AND ACCESS FOR PEDESTRIANS, EMERGENCY VEHICLES, SCHOOL BUSES AND ADJACENT RESIDENTIAL PROPERTIES MUST BE MAINTAINED DURING CONSTRUCTION.
- COORDINATE CLOSURES WITH ALL EMERGENCY AGENCIES AND SCHOOL DISTRICTS.
- PROVIDE UP TO 50 UNDISTURBED CONSTRUCTION SIGNS (TYPE B) FOR SIDEWALK CLOSURES AND PEDESTRIAN ROUTING.



Drawing: J:\Lafayette\Projects\201918 Lafayette Murdock Park\CAD 04-002\DWG\Sheet201918-20.dwg | Layout: 05 | Plotted: 11/13/19 @ 03:42:22 | Last Saved By: jasonw

SCALE VERIFICATION	DRAWN BY	JRW	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING  	CHECKED BY	LHR				
	APPROVED BY	ADG				
	ISSUE DATE	NOVEMBER 2019				
	PROJECT NUMBER	201918-04-002				



**CASON STREET WATER MAIN EXTENSION**  
LAFAYETTE WATER WORKS  
LAFAYETTE, INDIANA

**MAINTENANCE OF TRAFFIC - DETOUR PLAN PHASE II**

SHEET NO.  
**20**  
TOTAL SHEETS  
**20**