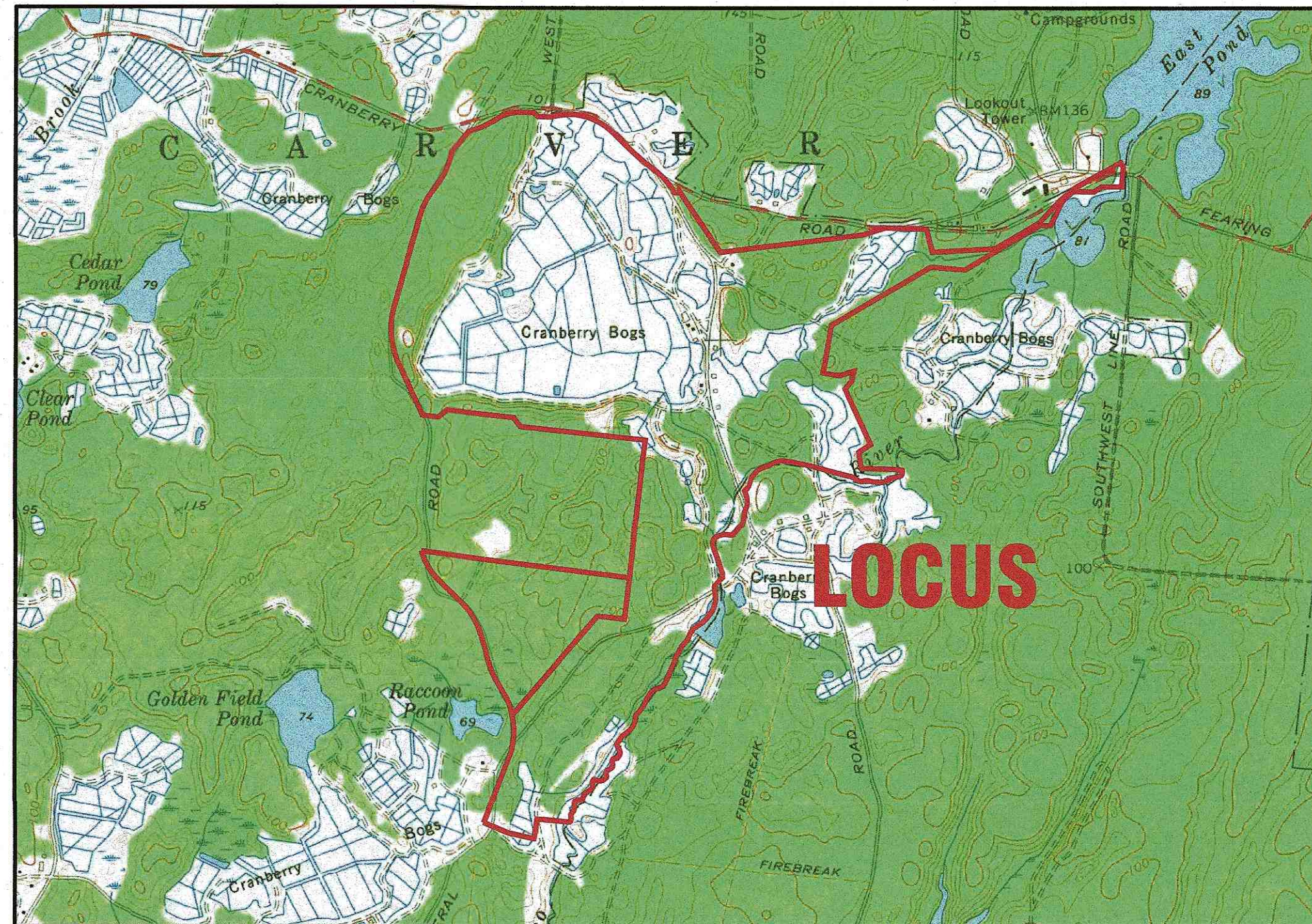


**"WANKINCO"**  
**PRELIMINARY SUBDIVISION PLAN**  
**FEDERAL ROAD**  
**CARVER, MASSACHUSETTS**

**OWNER: A. D. MAKEPEACE COMPANY  
158 TIHONET ROAD  
WAREHAM, MA 02571**

**APPLICANT: A. D. MAKEPEACE COMPANY  
158 TIHONET ROAD  
WAREHAM, MA 02571**



— U.S.G.S. LOCUS PLAN —  
SCALE: 1"=1500'

LOT DATA:

ASSESSORS MAP: 131 / LOT 2-4  
ADDRESS: 46 FEDERAL ROAD

ASSESSORS MAP: 131 / LOT 4-3  
ADDRESS: FEDERAL ROAD

OWNER:  
A.D. MAKEPEACE COMPANY  
158 TIRONET ROAD  
WAREHAM, MA 02571

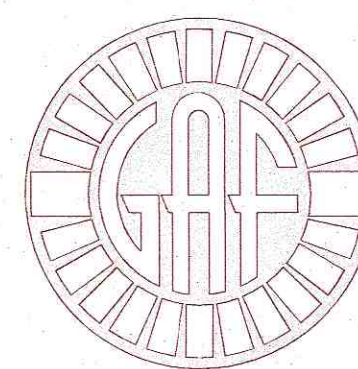
ZONING DATA:

ZONE: RESIDENTIAL / AGRICULTURAL (RA)

SETBACKS:  
MINIMUM LOT AREA: 60,000 S.F.  
MINIMUM FRONTAGE: 150'  
MINIMUM FRONT SETBACK: 50'  
MINIMUM REAR SETBACK: 50'  
MINIMUM SIDE SETBACK: 30'  
MAXIMUM BUILDING HEIGHT: 35'  
MINIMUM LOT WIDTH AT BLDG. LINE: 80%  
MINIMUM LOT WIDTH: 75'  
MAXIMUM BUILDING COVERAGE: 30%

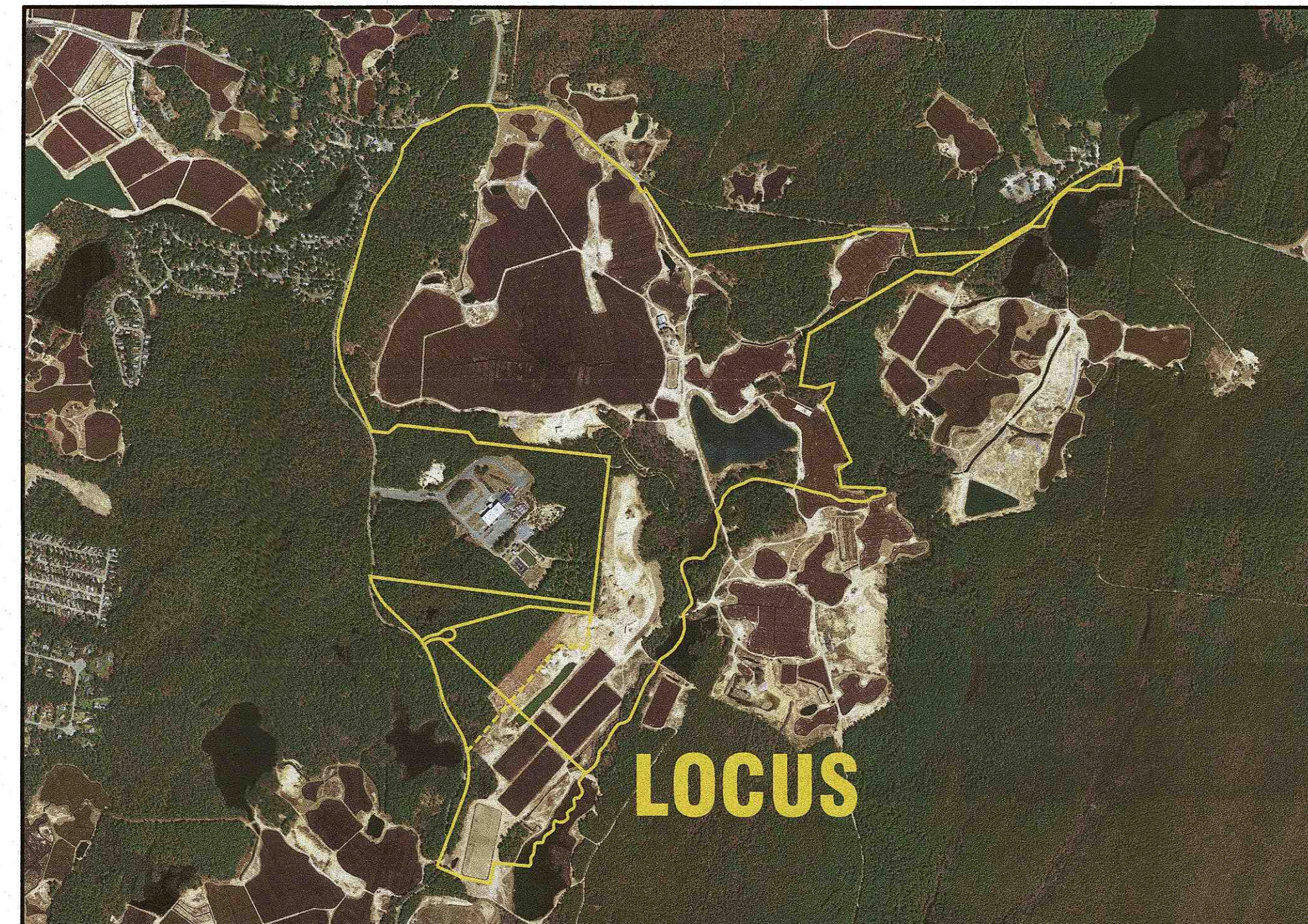
ZONE: RURAL INDUSTRIAL "IA"

SETBACKS:  
MINIMUM LOT AREA: 60,000 S.F.  
MINIMUM FRONTAGE: 175'  
MINIMUM FRONT SETBACK: 50'  
MINIMUM REAR SETBACK: 30'  
MINIMUM SIDE SETBACK: 30'  
MAXIMUM BUILDING HEIGHT: 40'  
MINIMUM LOT WIDTH AT BLDG. LINE: 80%  
MAXIMUM BUILDING COVERAGE: 50%



**G. A. F. ENGINEERING, INC.**  
**PROFESSIONAL ENGINEERS & LAND SURVEYORS**  
 266 MAIN STREET, WAREHAM, MA 02571  
 TEL: (508) 295-6600 FAX: (508) 295-6634  
 E-MAIL: [info@gafenginc.com](mailto:info@gafenginc.com)

APRIL 11, 2022



— AERIAL OVERVIEW —  
SCALE: 1"=1400'

PLAN INDEX:

SHEET NO.

1  
2  
3  
4  
5  
6  
7  
8  
9

DESCRIPTION

COVER SHEET  
GENERAL NOTES & LEGEND  
OVERVIEW PLAN  
EXISTING CONDITIONS SHEET-1  
EXISTING CONDITIONS SHEET-2  
LOTING SHEET-1  
LOTING SHEET-2  
ROADWAY PLAN & PROFILE  
DETAIL SHEET

FLOOD ZONE DATA:

THE PROJECT IS WITHIN FLOOD ZONE X & ZONE AE REFER TO THE  
F.E.M.A. FLOOD INSURANCE RATE MAP PANEL NUMBER 25023C0478K,  
DATED: JULY 6, 2021 AND NUMBER 25023C0479K, DATED: JULY 6, 2021.

|                                                           |  |                                                                                                                                                                                                                                                                                                                     |  |                 |  |
|-----------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|--|
| JOB NO.: DWG.                                             |  | 22-9873                                                                                                                                                                                                                                                                                                             |  | 1 OF 20         |  |
| "WANKINGO"<br>PRELIMINARY SUBDIVISION PLAN<br>COVER SHEET |  | CARVER, MA                                                                                                                                                                                                                                                                                                          |  | WAREHAM, MA     |  |
| FEDERAL ROAD                                              |  | A.D. MAKEPEACE COMPANY                                                                                                                                                                                                                                                                                              |  | 158 THONET ROAD |  |
| PREPARED FOR:                                             |  | G.A.F. ENGINEERING, INC.<br>PROFESSIONAL ENGINEERS & LAND SURVEYORS<br>266 MAIN STREET - WAREHAM, MA 02571<br>TEL: (508) 295-6600 FAX: (508) 295-6634<br>E-MAIL: info@gafenginc.com                                                                                                                                 |  |                 |  |
| APPROVED BY:                                              |  | <div>APPROVED BY: 4/11/22</div> <div>WILLIAM F. MADDEN<br/>MASSACHUSETTS<br/>REGISTERED PROFESSIONAL ENGINEER<br/>No. 32883</div> <div></div> |  |                 |  |
| DATE: APRIL 11, 2022                                      |  | DRAWN BY: JMP                                                                                                                                                                                                                                                                                                       |  |                 |  |
| CHECKED BY: WFM                                           |  | JOB NO.: 22-9873                                                                                                                                                                                                                                                                                                    |  |                 |  |
| SCALE: AS NOTED                                           |  | REV. DATE BY APP'D DESCRIPTION                                                                                                                                                                                                                                                                                      |  |                 |  |

GENERAL NOTES:

1. ALL UNDERGROUND UTILITIES SHOWN OR NOT SHOWN WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS AND IN PART FROM FIELD SURVEY AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD. BEFORE EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION, OR REPAIRING, ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN. SEE MGL CHAPTER 370, ACTS OF 1963. CONTRACTORS MUST CALL DIG-SAFE AT (1-888-DIG-SAFE OR 811) G.A.F. ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
2. EXISTING CONDITIONS INFORMATION IS BASED ON ACTUAL FIELD SURVEY, PRIVATE UTILITY PLANS, AND OTHER AVAILABLE SOURCES. ACTUAL FIELD SURVEY WAS PERFORMED BY G.A.F. ENGINEERING, INC. ON VARIOUS DATES AND MOST RECENTLY IN FEBRUARY OF 2014.
3. THE CONTRACTOR SHALL COORDINATE AND OBTAIN ALL REQUIRED PERMITS, GIVE ALL NOTICES, COMPLY WITH ALL LAWS AND REGULATIONS, AND PAY ALL FEES ASSOCIATED WITH THE INSTALLATION OF THIS WORK.
4. THE CONTRACTOR SHALL FIELD VERIFY, PRIOR TO CONSTRUCTION ALL EXISTING UNDERGROUND UTILITY LOCATIONS AND POINTS OF INTERCONNECTION.
5. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, SUPERVISION, TOOLS, EQUIPMENT, FUEL, POWER, SANITARY FACILITIES AND INCIDENTALS NECESSARY FOR THE FURNISHING, PERFORMANCE, TESTING, START-UP AND COMPLETION OF THIS WORK.
6. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER OF ANY CONFLICTS DISCOVERED IN THE FIELD.
7. ANY CHANGES TO THESE SITE PLANS THAT ARE MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE CONTRACTOR ON RECORD DOCUMENTS AND REPORTED TO THE OWNER AND ENGINEER.
8. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN EXCAVATION AND TRENCH PERMIT PURSUANT TO 520 CMR 14.00 AS APPLICABLE PRIOR TO THE START OF CONSTRUCTION.
9. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE HIS/HER OWN DETERMINATION OF SUBSURFACE CONDITIONS, INCLUDING THE LOCATION OF ROCK AND THE ACTUAL LOCATION OF UTILITIES OR OTHER FEATURES WHICH MAY AFFECT HIS/HER WORK. ANY UNSUITABLE MATERIAL ENCOUNTERED DURING CONSTRUCTION WILL BE REPORTED TO THE ENGINEER OF RECORD.

CONSTRUCTION NOTES:

1. IN GENERAL, THE PLANS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EVERY FITTING, CHANGE IN DIRECTION OR DETAIL OF CONSTRUCTION.
2. THE LOCATION OF UTILITIES WERE OBTAINED FROM VARIOUS SOURCES OF INFORMATION. THE EXACT LOCATION AND COMPLETENESS IS NOT GUARANTEED. THE CONTRACTOR MUST NOTIFY DIG SAFE PRIOR TO THE START OF CONSTRUCTION (1-888-DIG-SAFE OR 811). G.A.F. ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
3. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF PERSONNEL AND PROTECTION OF PROPERTY AT THE SITE OR ADJACENT THERETO INCLUDING TREES, SHRUBS, LAWNS, PAVEMENTS, ROADWAYS, STRUCTURES AND UNDERGROUND UTILITIES NOT DESIGNED FOR REMOVAL, RELOCATION, OR REPLACEMENT.
4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION REQUIRED FOR THE INSTALLATION OF THIS WORK.
5. ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS AND OF GOOD QUALITY.
6. THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM THE ACCUMULATION OF WASTE MATERIAL AND OTHER DEBRIS RESULTING FROM THIS WORK.
7. ALL PAVEMENT MARKINGS DISTURBED BY CONSTRUCTION SHALL BE RESTORED AS PART OF THIS WORK.
8. THE CONTRACTOR SHALL INSTITUTE ALL SAFETY MEASURES NECESSARY TO PROTECT THE PUBLIC SAFETY. THIS SHALL INCLUDE, BUT NOT LIMITED TO, BARRICADES, SIGNS, LIGHTING, FENCES, POLICE DETAILS, AND ANY OTHER MEANS AS DIRECTED. NO TRENCHES ARE TO REMAIN OPEN OVERNIGHT.
9. ELEVATIONS ARE IN FEET AND TENTHS AND ARE BASED ON THE DATUM OF NAVD-88.
10. SIDE SLOPE GRADING SHALL BE AS NOTED ON THE SITE PLANS.
11. ALL SIDE SLOPES SHALL BE DRESSED WITH 4 INCHES OF TOPSOIL. WHERE SIDE SLOPES EXCEED 3:1, PROVIDE AN EROSION CONTROL BLANKET OVER THE PLANTED SEED BED. SEE PLAN FOR LOCATIONS.
12. PERMANENT SEEDING (BEFORE SEPTEMBER 15) LIME TO PH OF 6.5 ACCORDING TO SOIL TEST OR APPLY AT THE RATE OF 100 TO 150 LBS. PER 1,000 SQUARE FEET. APPLY 10-20-20 FERTILIZER AT 1,000 LBS. PER ACRE. INCORPORATE LIME AND FERTILIZER IN TOP 4 INCHES OF SOIL. SEED 100 LBS. PER ACRE OF THE FOLLOWING SEED MIX.
- | PURE PERCENT | SEED                |
|--------------|---------------------|
| 30-35%       | CREEPING RED FESCUE |
| 30-35%       | PERENNIAL RYEGRASS  |
| 20-25%       | KENTUCKY BLUEGRASS  |
| 10-15%       | ANNUAL RYEGRASS     |
- HYDRO SEEDING IS AN ALTERNATIVE FOR THIS APPLICATION. A MIXTURE OF SEED WATER AND MULCH IS SPRAYED ON THE SEED BED COMBINING THREE (3) SEPARATE ACTIONS INTO ONE (1) OPERATION
13. ALL METHODS AND MATERIALS SHALL CONFORM WITH MassDOT STANDARDS AND SPECIFICATIONS, AND THE REQUIREMENTS OF THE TOWN OF CARVER OPERATIONS AND MAINTENANCE DEPARTMENT.
15. ALL UTILITY INSTALLATIONS SHALL BE IN CONFORMANCE WITH ALL APPLICABLE TOWN, STATE AND FEDERAL REQUIREMENTS & REGULATIONS.

DRAINAGE OPERATION AND MAINTENANCE SCHEDULE:

- THE OPERATION AND MAINTENANCE (O&M) SCHEDULE DURING THE CONSTRUCTION PERIOD IS THE RESPONSIBILITY OF THE CONTRACTOR. THE OUTLINE BELOW SHALL BE FOLLOWED TO ENSURE THE PROPER CONSTRUCTION AND FUNCTION OF THE DRAINAGE FACILITIES.
1. IN CONJUNCTION WITH THE SITE CONSTRUCTION, ALL DRAINAGE STRUCTURES SHALL BE INSTALLED AND THE AFFECTED AREAS STABILIZED (LOAM AND SEED, HYDROSEED, PLANTED, RIP-RAP, ETC.). PERMANENT STABILIZATION OF THESE AREAS SHALL BE STARTED AS SOON AS POSSIBLE.
2. EROSION CONTROL SHALL BE PLACED ALONG THE LIMITS OF WORK WHERE SHOWN ON THE PLAN.
3. ALL EXISTING CATCH BASINS SHALL HAVE A TEMPORARY SILT SACK INSTALLED IN THEM PRIOR TO CONSTRUCTION. ALL PROPOSED CATCH BASINS AND NYLOPLAST AREA DRAINS SHALL HAVE TEMPORARY SILT SACK INSTALLED IN THEM AS SOON AS THE STRUCTURE IS SET. CONTRACTOR SHALL REMOVE AND DISPOSE OF THEM AT THE COMPLETION OF CONSTRUCTION. ALL EXISTING AND PROPOSED CATCH BASINS AND NYLOPLAST AREA DRAINS SHALL BE INSPECTED WEEKLY DURING CONSTRUCTION. IF THERE IS ANY SEDIMENT BUILDUP, THE AFFECTED STRUCTURES SHALL BE CLEANED IMMEDIATELY, AND ALL MATERIAL REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
4. THE DRAINAGE BASIN SHALL BE INSPECTED WEEKLY DURING CONSTRUCTION. IF THERE IS ANY SEDIMENT BUILDUP, THE AFFECTED AREA SHALL BE CLEANED IMMEDIATELY, AND ALL MATERIAL REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
5. ALL AREAS SHALL BE INSPECTED WEEKLY, AND AFTER LARGE STORMS. IF THERE IS EVIDENCE OF EROSION, THE ERODED AREA SHALL BE RE-STABILIZED, AND MEASURES SHALL BE TAKEN TO PREVENT REOCCURRENCE. THIS SCHEDULE MUST BE ADHERED TO BY THE CONTRACTOR UNTIL THE PROJECT IS ACCEPTED BY THE OWNER.

POST-CONSTRUCTION OPERATION AND MAINTENANCE PLAN:

- UPON THE COMPLETION OF ROADWAY CONSTRUCTION, MAINTENANCE SHALL BE CONDUCTED BY A.D. MAKEPEACE COMPANY, INC. AND ITS SUCCESSORS OR THE HOME OWNER'S ASSOCIATION ON THE ROADWAY AND DRAINAGE FACILITIES. THE FOLLOWING SHALL BE CARRIED OUT BY THE RESPONSIBLE PARTY AND SHALL BE ADHERED TO ENSURE THE PROPER OPERATION OF THE DRAINAGE FACILITIES.
1. STREET SWEEPING IS AN EFFECTIVE NONSTRUCTURAL SOURCE CONTROL THAT WILL REMOVE SEDIMENT FROM PAVED SURFACES. PARKING LOT SWEEPING SHOULD BE DONE BY THE USE OF A HIGH EFFICIENCY VACUUM SWEEPER OR REGENERATIVE AIR SWEEPER. STREET SWEEPING SHALL BE DONE TWICE PER YEAR. ONCE REMOVED FROM PAVED SURFACES, THE SWEEPINGS MUST BE HANDLED AND DISPOSED OF PROPERLY IN ONE OF THE WAYS APPROVED BY MASSDEP (SEE POLICY # BAW-18--001: REUSE & DISPOSAL OF STREET SWEEPINGS).
2. DEEP SUMP CATCH BASINS ARE UNDERGROUND RETENTION SYSTEMS DESIGNED TO REMOVE TRASH, DEBRIS AND COARSE SEDIMENT FROM STORMWATER RUNOFF AND SERVE AS TEMPORARY SPILL CONTAINMENT DEVICES FOR FLOATABLES SUCH AS OILS AND GREASE. INSPECT CATCH BASINS MONTHLY AND CLEAN AT LEAST TWO TIMES PER YEAR AND AT THE END OF THE FOLIAGE AND SNOW-REMOVAL SEASONS. SEDIMENTS MUST ALSO BE REMOVED WHENEVER THE DEPTH OF DEPOSITS IS GREATER THAN OR EQUAL TO ONE HALF THE DEPTH FROM THE BOTTOM OF THE INVERT. SEDIMENT SHALL BE REMOVED THROUGH THE USE OF A VACUUM TRUCK. SEDIMENT MUST BE HANDLED AND DISPOSED OF PROPERLY IN ONE OF THE WAYS ALREADY APPROVED BY MASSDEP (SEE MASSDEP POLICY ON MANAGEMENT OF CATCH BASIN CLEANINGS). IF THERE IS EVIDENCE THAT THEY HAVE BEEN CONTAMINATED BY A SPILL OR OTHER MEANS, THE CLEANINGS MUST BE EVALUATED IN ACCORDANCE WITH THE MASSDEP HAZARDOUS WASTE REGULATIONS, 310 CMR 30.00 AND HANDLED AS HAZARDOUS WASTE.
3. FLARED END SECTIONS SHALL BE CLEANED FOUR TIMES PER YEAR AND INSPECTED MONTHLY. ALL SEDIMENTS AND HYDROCARBONS SHOULD BE REMOVED AND DISPOSED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
4. SEDIMENT FOREBAY IS AN EXCAVATED PIT, BERMED AREA DESIGNED TO SLOW INCOMING STORMWATER RUNOFF AND FACILITATING THE GRAVITY SEPARATION OF SUSPENDED SOLIDS. SEDIMENT FOREBAYS SHALL BE INSPECTED MONTHLY AND CLEANED OUT AT LEAST FOUR (4) TIMES PER YEAR. WHEN MOWING GRASSES, KEEP THE GRASS HEIGHT NO GREATER THAN SIX (6) INCHES. SET MOWER BLADES NO LOWER THAN THREE (3) INCHES. CHECK FOR SIGNS OF RILLING AND GULLYING AND REPAIR AS NEEDED. AFTER REMOVING SEDIMENT, REPLACE ANY VEGETATION DAMAGED DURING THE CLEAN-OUT BY EITHER RESEEDING OR RESODDING. WHEN RESEEDING, INCORPORATE PRACTICES SUCH AS HYDROSEEDING WITH A TACKIFIER, BLANKET OR SIMILAR PRACTICE TO ENSURE THAT NO SCOUR OCCURS IN THE FOREBAY, WHILE THE SEEDS GERMINATE AND DEVELOP ROOTS.
5. DRAINAGE BASIN AREAS SHALL BE INSPECTED AT LEAST FOUR TIMES PER YEAR TO ENSURE THE BASINS ARE OPERATING AS INTENDED. ALSO INSPECT THE BASINS DURING AND AFTER MAJOR STORM EVENTS TO DETERMINE IF THE BASINS ARE MEETING THE EXPECTED DETENTION TIMES. EXAMINE THE OUTLET STRUCTURE FOR EVIDENCE OF CLOGGING OR OUTFLOW RELEASE VELOCITIES GREATER THAN THE DESIGN FLOW. POTENTIAL PROBLEMS THAT SHALL BE CHECKED INCLUDE: SUBSIDENCE, EROSION, CRACKING OR TREE GROWTH ON THE EMBANKMENT; DAMAGE TO THE EMERGENCY SPILLWAY; SEDIMENT ACCUMULATION AROUND THE OUTLET; INADEQUACY OF THE INLET/OUTLET CHANNEL EROSION CONTROL MEASURES; CHANGES IN THE CONDITION OF THE PILOT CHANNEL; AND EROSION WITHIN THE BASIN AND BANKS. MAKE ANY NECESSARY REPAIRS IMMEDIATELY. MOW THE UPPER-STAGE, SIDE SLOPES AND EMBANKMENTS AT LEAST TWICE PER YEAR. REMOVE SEDIMENT AS NECESSARY, BUT AT LEAST ONCE EVERY FIVE YEARS. SEDIMENT SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

DRAINAGE INSTALLATION NOTES:

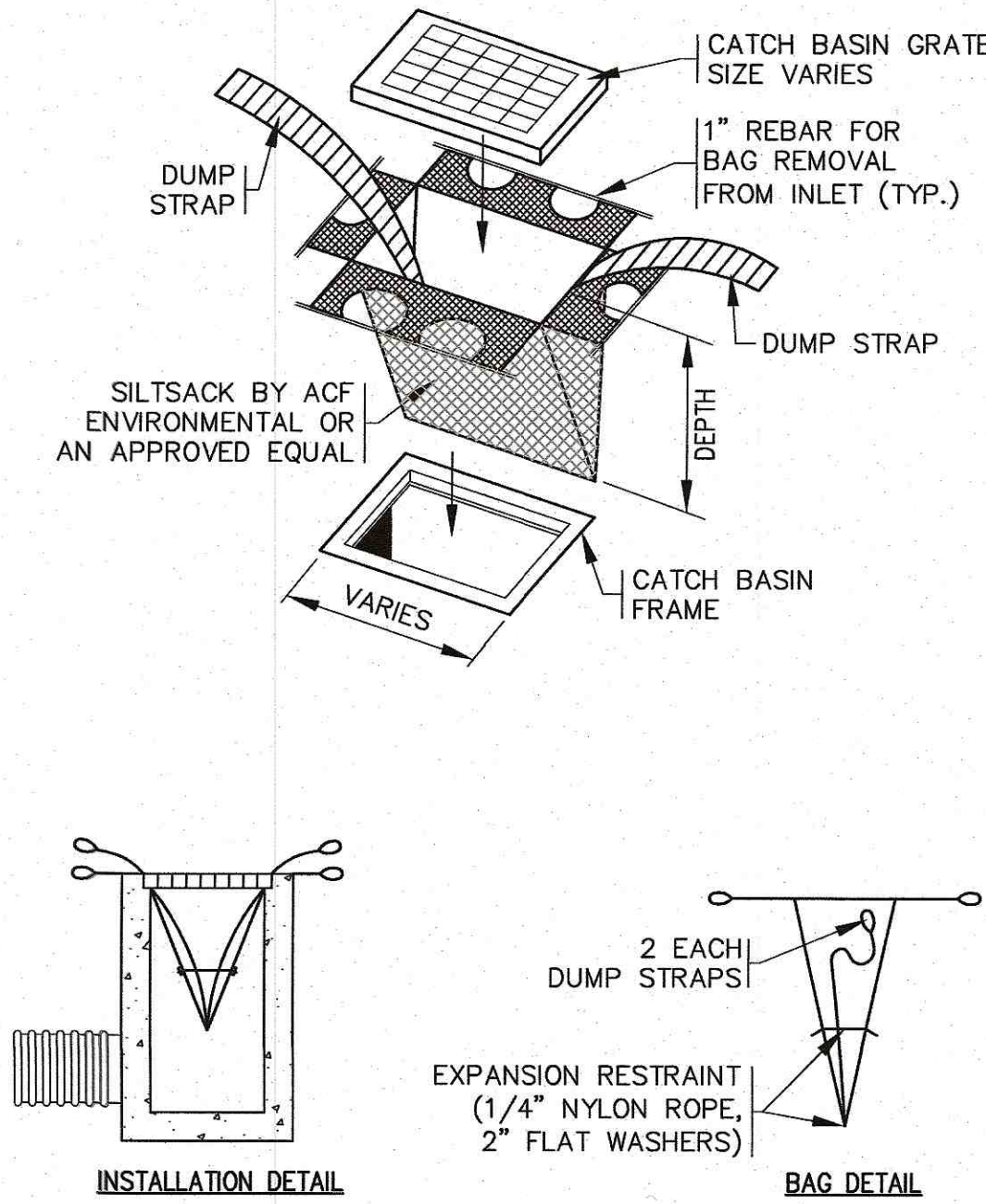
1. ALL DRAINAGE PIPES, UNLESS OTHERWISE NOTED, ARE TO BE ADS N-12 PIPE OR AN APPROVED H.D.P.E. EQUAL WITH SOIL TIGHT JOINTS AND FITTINGS. ALL PIPE CONNECTIONS TO MANHOLES & CATCH BASINS SHALL BE MADE USING FLEXIBLE CONNECTIONS OF A TYPE APPROVED BY THE OPERATIONS AND MAINTENANCE DEPARTMENT. REFER TO PLAN FOR LOCATION, SIZES AND SLOPES.
2. ALL ROOF DRAIN PIPES, UNLESS OTHERWISE NOTED, ARE TO BE 4" ADS N-12 PIPE WITH SOIL TIGHT JOINTS AND FITTINGS. MINIMUM SLOPE TO BE 1.00%. REFER TO PLAN FOR LOCATION.
3. MIN. COVER ON PIPES SHALL NOT BE LESS THAN 2.5 FEET.
4. WHERE REQUIRED ALL PIPE PERFORATIONS SHALL BE AASHTO CLASS II.
5. ALL WORK AND MATERIAL SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWN OF CARVER OPERATIONS AND MAINTENANCE DEPARTMENT.
6. ALL DRAIN MANHOLES, CATCH BASINS AND DRAIN PIPE SHALL NOT BE BACKFILLED UNTIL INSPECTED AND APPROVED BY THE DIRECTOR OF THE OPERATIONS AND MAINTENANCE DEPARTMENT. ALL COVERS AND GRATES SHALL BE SET TO PAVEMENT BINDER COURSE AND ADJUSTED TO FINAL GRADE FOR THE CONSTRUCTION OF THE PAVEMENT TOP COURSE.
7. WHERE REQUIRED CONTRACTOR TO REMOVE ALL UNSUITABLE SOILS AND REPLACE WITH CLEAN SAND AND GRAVEL APPROVED BY DESIGN ENGINEER.

PLAN PURPOSE:

THIS PRELIMINARY PLAN IS BEING FILED AS THE FIRST STEP IN OBTAINING A FREEZE ON PROPOSED ZONING AND WILL BE FOLLOWED UP WITH A DEFINITIVE SUBDIVISION PLAN IN 7 MONTHS.

EROSION CONTROL NOTES:

1. THE SITE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SUITABLE EROSION AND SEDIMENTATION CONTROL DEVICES ON SITE DURING CONSTRUCTION AS REQUIRED TO PREVENT SILT FROM LEAVING THE SITE. SILT WILL NOT BE ALLOWED BEYOND CONSTRUCTION LIMITS. ADDITIONAL PROTECTION: ON-SITE PROTECTION MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNFORESEEN CONDITIONS OR ACCIDENTS.
2. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE SUFFICIENT EROSION AND SEDIMENT CONTROL, ADDITIONAL CONTROL MEASURES SHALL BE IMPLEMENTED. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING EROSION CONTROL DEVICES WHICH BECOME INEFFECTIVE.
3. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR ALL GRADING AND OTHER LAND DISTURBING ACTIVITIES PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY BUILDUP OF SEDIMENT WHICH ESCAPES FROM THE SITE.
5. CONTRACTOR IS RESPONSIBLE FOR CLEANING SILT AND DEBRIS OUT OF ALL STORM DRAINAGE STRUCTURES UPON THE COMPLETION OF CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION CONTROL MEASURES AFTER CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED.
7. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY FINES LEVIED AGAINST THE SITE FOR VIOLATIONS OF EROSION CONTROL REGULATIONS.
8. CONTRACTOR SHALL PROVIDE TEMPORARY GROUND COVER FOR ALL AREAS WITH EXPOSED SOIL WHICH WILL NOT BE DISTURBED BY GRADING OPERATIONS FOR A PERIOD OF THIRTY DAYS OR MORE.
9. IF WORK ON THIS PROJECT IS SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL MAINTAIN THE SOIL EROSION AND SEDIMENTATION CONTROL FACILITIES IN GOOD CONDITION DURING THE SUSPENSION OF WORK.
10. SPRINKLE OR APPLY DUST SUPPRESSERS TO MINIMIZE DUST AT THE CONSTRUCTION SITE. MAINTAIN DUST CONTROL MEASURES UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
11. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN DEWATERING EQUIPMENT. THE FINAL SIZE AND LOCATION OF DEWATERING EQUIPMENT SHALL BE FIELD DETERMINED BY THE CONTRACTOR AT TIME OF CONSTRUCTION.
12. THE CONTRACTOR WILL ALSO NEED TO COMPLY TO ANY ORDER OF CONDITIONS THAT MAY BE ISSUED BY THE TOWN OF CARVER CONSERVATION COMMISSION.



NOTES:

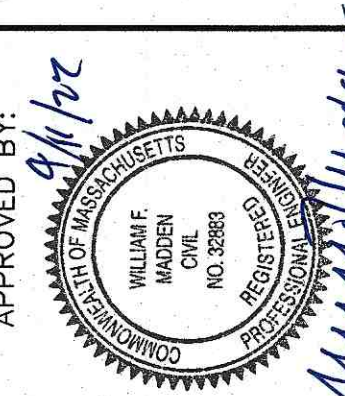
1. ALL CATCH BASINS SHALL HAVE TEMPORARY SILT SACKS OR AN APPROVED EQUAL INSTALLED IN THEM AS SOON AS THE STRUCTURE IS SET. CONTRACTOR SHALL REMOVE AND DISPOSE OF THEM AT THE COMPLETION OF CONSTRUCTION.
2. REFER TO PLAN FOR ALL CATCH BASIN LOCATIONS.

SILT SACK DETAIL  
N.T.S.

ABBREVIATIONS

|            |                              |
|------------|------------------------------|
| AC         | ASBESTIC CONCRETE            |
| ADS        | ADVANCED DRAINAGE SYSTEM     |
| APPROX.    | APPROXIMATE                  |
| BC         | BOTTOM OF CURB               |
| BIT. CONC. | BITUMINOUS CONCRETE          |
| BLDRS      | BOULDERS                     |
| BW         | BOTTOM OF WALL               |
| BWV        | BORDERING VEGETATED WETLANDS |
| CB         | CATCH BASIN                  |
| CB/DH      | CONCRETE BOUND/DRILL HOLE    |
| CCB        | CAPE COD BERM                |
| CEM.       | CEMENT                       |
| C.I.       | CAST IRON                    |
| CONC.      | CONCRETE                     |
| C.O.       | CLEAN OUT                    |
| C.L.D.I.   | CEMENT LINED DUCTILE IRON    |
| CMP        | CORRUGATED METAL PIPE        |
| CP         | CORRUGATED PLASTIC PIPE      |
| DIA        | DIAMETER                     |
| DMH        | DRAIN MANHOLE                |
| D.I.       | DUCTILE IRON                 |
| DCS        | DRAINAGE CONTROL STRUCTURE   |
| E          | ELECTRIC                     |
| ELEV.,EL.  | ELEVATION                    |
| EOP        | EDGE OF PAVEMENT             |
| EX.        | EXISTING                     |
| F.D.C.     | FIRE DEPARTMENT CONNECTION   |
| F.E.S.     | FLARED END SECTION           |
| F.F.E.     | FINISHED FLOOR ELEVATION     |
| FND.       | FOUND                        |
| FP         | FIRE PROTECTION              |
| G          | GAS                          |
| GG,GV      | GAS GATE, GAS VALVE          |
| H.C.       | HANDICAP PARKING             |
| H.D.P.E.   | HIGH DENSITY POLYETHYLENE    |
| HMA        | HOT MIXED ASPHALT            |
| HYD        | HYDRANT                      |
| INV.       | INVERT                       |
| MAX        | MAXIMUM                      |
| MED        | MEDIUM                       |
| MIN.       | MINIMUM                      |
| N.T.S.     | NOT TO SCALE                 |
| N/F        | NOW OR FORMERLY              |
| OHW        | OVERHEAD WIRE                |
| PCC        | PRECAST CONCRETE CURBING     |
| PVC        | POLYVINYL CHLORIDE PIPE      |
| PROP.      | PROPOSED                     |
| RCP        | REINFORCED CONCRETE PIPING   |
| R          | RADIUS                       |
| R&D        | REMOVE AND DISPOSE           |
| R&S        | REMOVE AND STOCK             |
| SB/DH      | STONE BOUND/DRILL HOLE       |
| S          | SEWER                        |
| SGC        | SLOPED GRANITE CURBING       |
| SMH        | SEWER MANHOLE                |
| STA        | STATION                      |
| TC         | TOP OF CURB                  |
| TW         | TOP OF WALL                  |
| TYP.       | TYPICAL                      |
| T/O/F      | TOP OF FOUNDATION            |
| UP         | UTILITY POLE                 |
| UE         | UNDERGROUND ELECTRIC         |
| VCC        | VERTICAL GRANITE CURB        |
| W          | WATER                        |
| WG,WV      | WATER GATE, WATER VALVE      |
| WQS        | WATER QUALITY STRUCTURE      |

| EXISTING | DESC.                   | PROPOSED  |
|----------|-------------------------|-----------|
| 55       | CONTOURS                | 55        |
| 53x5     | SPOT GRADES             | 52x5 52x9 |
|          | WETLANDS                |           |
| D        | F.E.M.A. FLOOD ZONE     | D         |
| RD       | DRAIN LINE              | RD        |
|          | PERFORATED DRAIN LINE   |           |
|          | ROOF DRAIN LINE         | RD        |
|          | CATCH BASIN (CB)        |           |
|          | DRAIN MANHOLE (DMH)     |           |
|          | CLEAN OUT (C.O.)        |           |
|          | ELECTRIC MANHOLE (EMH)  |           |
|          | UNDERGROUND UTILITIES   |           |
| OHW      | OVERHEAD WIRES          | OHW       |
|          | UTILITY POLE            |           |
|          | GUY POLE                |           |
|          | WATER GATE VALVE        |           |
|          | WATER SHUTOFF/CURB STOP |           |
|          | HYDRANT                 |           |
|          | POST INDICATOR VALVE    |           |
|          | WATER LINE              |           |
|          | FIRE PROTECTION LINE    |           |
|          | SEWER MANHOLE (SMH)     |           |
|          | SEWER LINE              |           |
|          | TREELINE                |           |
|          | LIGHT POST              |           |
|          | GAS LINE                |           |
|          | GAS GATE/VALVE          |           |
|          | GAS SHUTOFF             |           |
|          | GAS METER               |           |
|          | SIGN                    |           |
|          | FENCE                   |           |
|          | BOUND                   |           |
|          | TEST PIT/PERC TEST      |           |
|          | SILT FENCE              |           |
|          | GUARD RAIL              |           |
|          | FLARED END SECTION      |           |
|          | STONE WALL              |           |

APPROVED BY:  
  
WILLIAM MADDEN  
NO. 2888  
REGISTERED PROFESSIONAL ENGINEER

DATE: APRIL 11, 2022  
DRAWN BY: JUMP  
CHECKED BY: WFM  
JOB NO.: 22-9873  
SCALE: AS NOTED

**G.A.F. ENGINEERING, INC.**  
PROFESSIONAL ENGINEERS & LAND SURVEYORS  
266 MAIN STREET - WAREHAM, MA 02571  
TEL: (508) 295-6600 FAX: (508) 295-6634  
E-MAIL: info@gafengr.com

**"WANKINCO"**  
DEFINITIVE SUBDIVISION PLAN  
GENERAL NOTES & LEGEND  
FEDERAL ROAD CARVER, MA

PREPARED FOR:  
**A.D. MAKEPEACE COMPANY**  
158 THONET ROAD WAREHAM, MA

JOB NO.: 22-9873  
DWG. 2 OF 9







LOT DATA:

ASSESSORS MAP: 131 / LOT 2-4  
ADDRESS: 46 FEDERAL ROAD

ASSESSORS MAP: 131 / LOT 4-3  
ADDRESS: FEDERAL ROAD

OWNER:  
A.D. MAKEPEACE COMPANY  
158 THONET ROAD  
WAREHAM, MA 02571

ZONING DATA:

ZONE: RESIDENTIAL / AGRICULTURAL (RA)

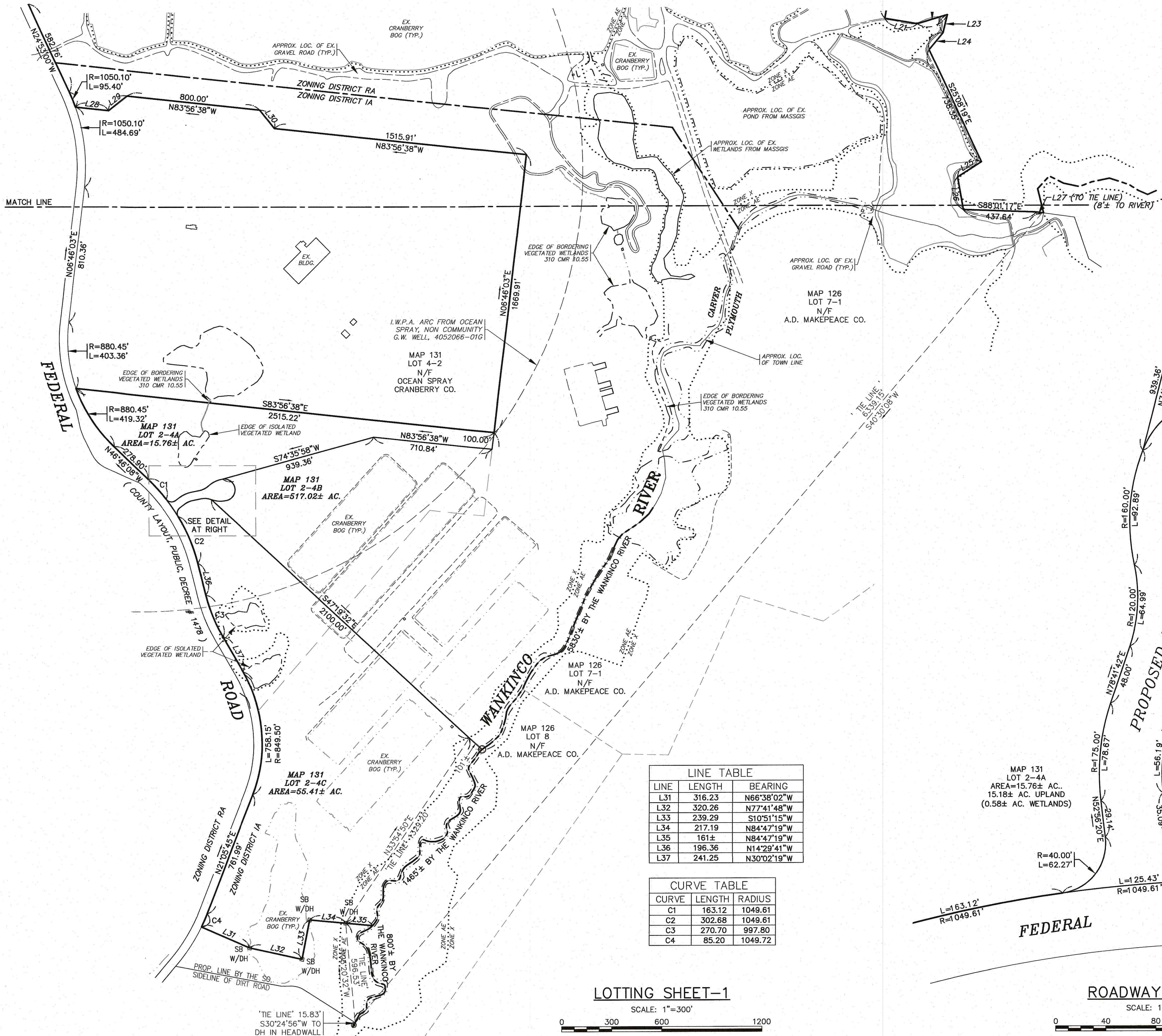
SETBACKS:  
MINIMUM LOT AREA: 60,000 S.F.  
MINIMUM FRONTAGE: 150'  
MINIMUM FRONT SETBACK: 50'  
MINIMUM REAR SETBACK: 50'  
MINIMUM SIDE SETBACK: 30'  
MAXIMUM BUILDING HEIGHT: 35'  
MINIMUM LOT WIDTH AT BLDG. LINE: 80%  
MINIMUM LOT WIDTH: 75'  
MAXIMUM BUILDING COVERAGE: 30%

ZONE: RURAL INDUSTRIAL "IA"

SETBACKS:  
MINIMUM LOT AREA: 60,000 S.F.  
MINIMUM FRONTAGE: 175'  
MINIMUM FRONT SETBACK: 50'  
MINIMUM REAR SETBACK: 30'  
MINIMUM SIDE SETBACK: 30'  
MAXIMUM BUILDING HEIGHT: 40'  
MINIMUM LOT WIDTH AT BLDG. LINE: 80%  
MAXIMUM BUILDING COVERAGE: 50%

FLOOD ZONE DATA:

THE PROJECT IS WITHIN FLOOD ZONE X &  
ZONE AE REFER TO THE F.E.M.A. FLOOD  
INSURANCE RATE MAP PANEL NUMBER  
25023C0478K, DATED: JULY 6, 2021 AND  
NUMBER 25023C0479K, DATED: JULY 6, 2021.



| LINE TABLE |        |             |
|------------|--------|-------------|
| LINE       | LENGTH | BEARING     |
| L31        | 316.23 | N66°38'02"W |
| L32        | 320.26 | N77°41'48"W |
| L33        | 239.29 | S10°51'15"W |
| L34        | 217.19 | N84°47'19"W |
| L35        | 161±   | N84°47'19"W |
| L36        | 196.36 | N14°29'41"W |
| L37        | 241.25 | N30°02'19"W |

| CURVE TABLE |        |         |
|-------------|--------|---------|
| CURVE       | LENGTH | RADIUS  |
| C1          | 163.12 | 1049.61 |
| C2          | 302.68 | 1049.61 |
| C3          | 270.70 | 997.80  |
| C4          | 85.20  | 1049.72 |

LOTING SHEET-1

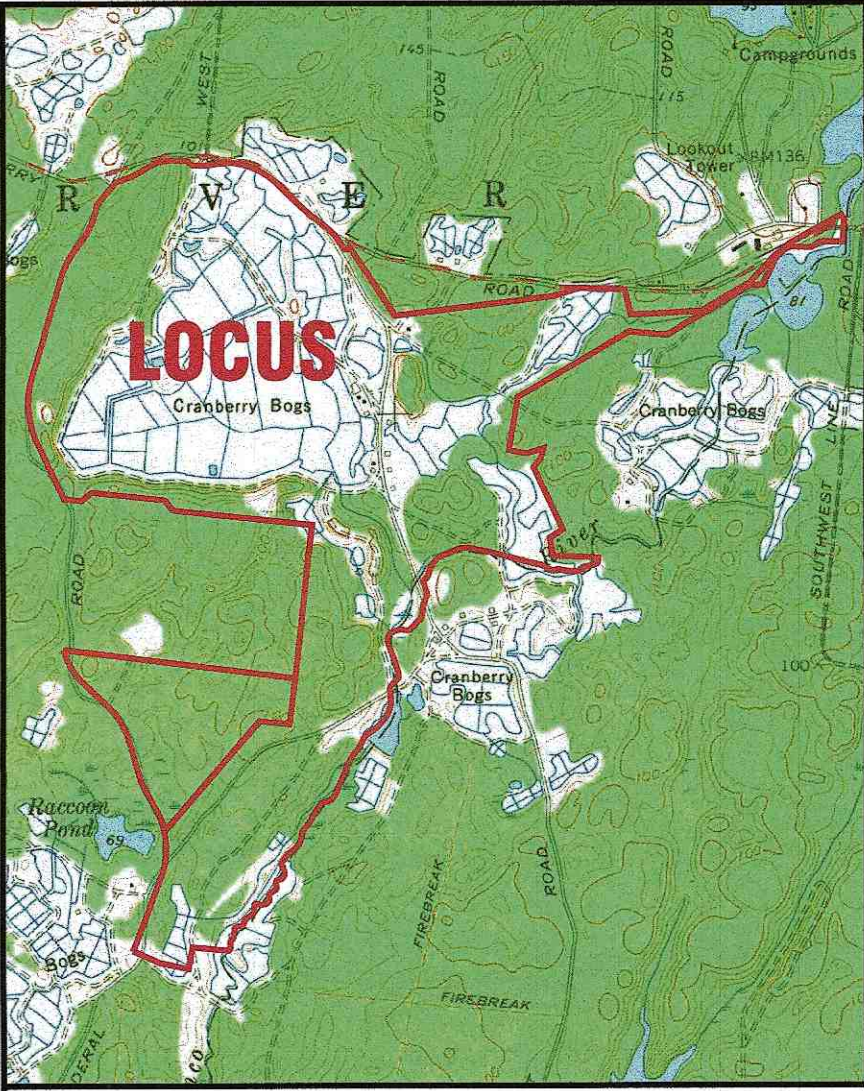
SCALE: 1"=300'

0 300 600 1200

ROADWAY DETAIL

SCALE: 1"=40'

0 40 80 160



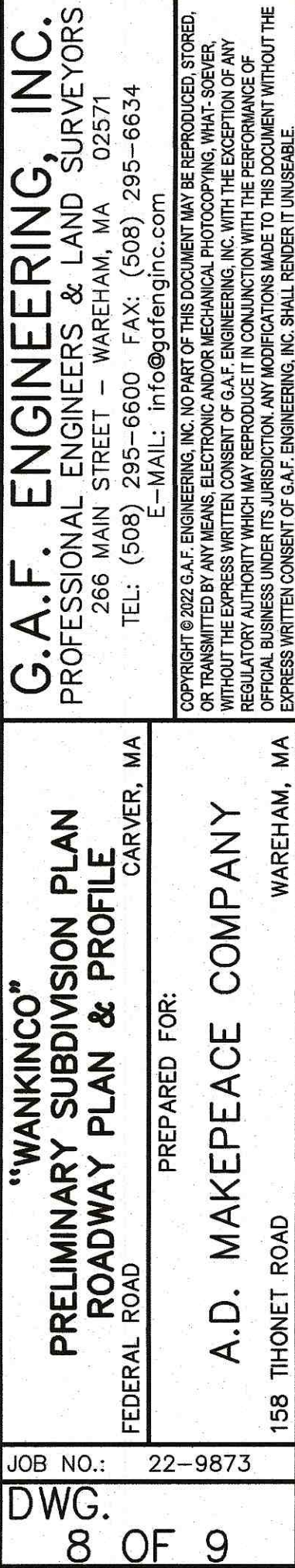
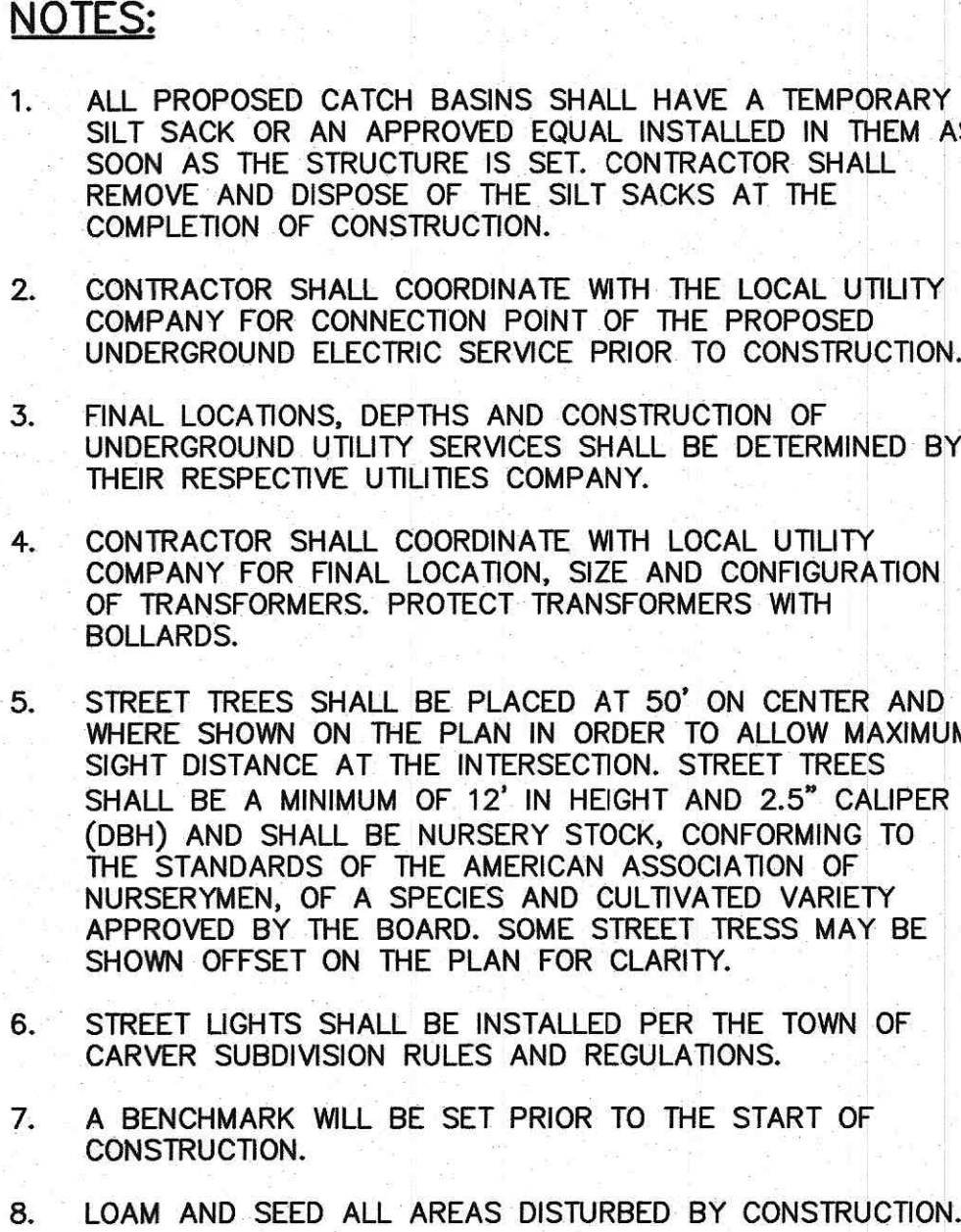
NOTE:  
LOTS SHOWN HEREON WILL BE SERVICED BY PRIVATE  
WELLS & ON SITE SEWAGE DISPOSAL SYSTEMS.

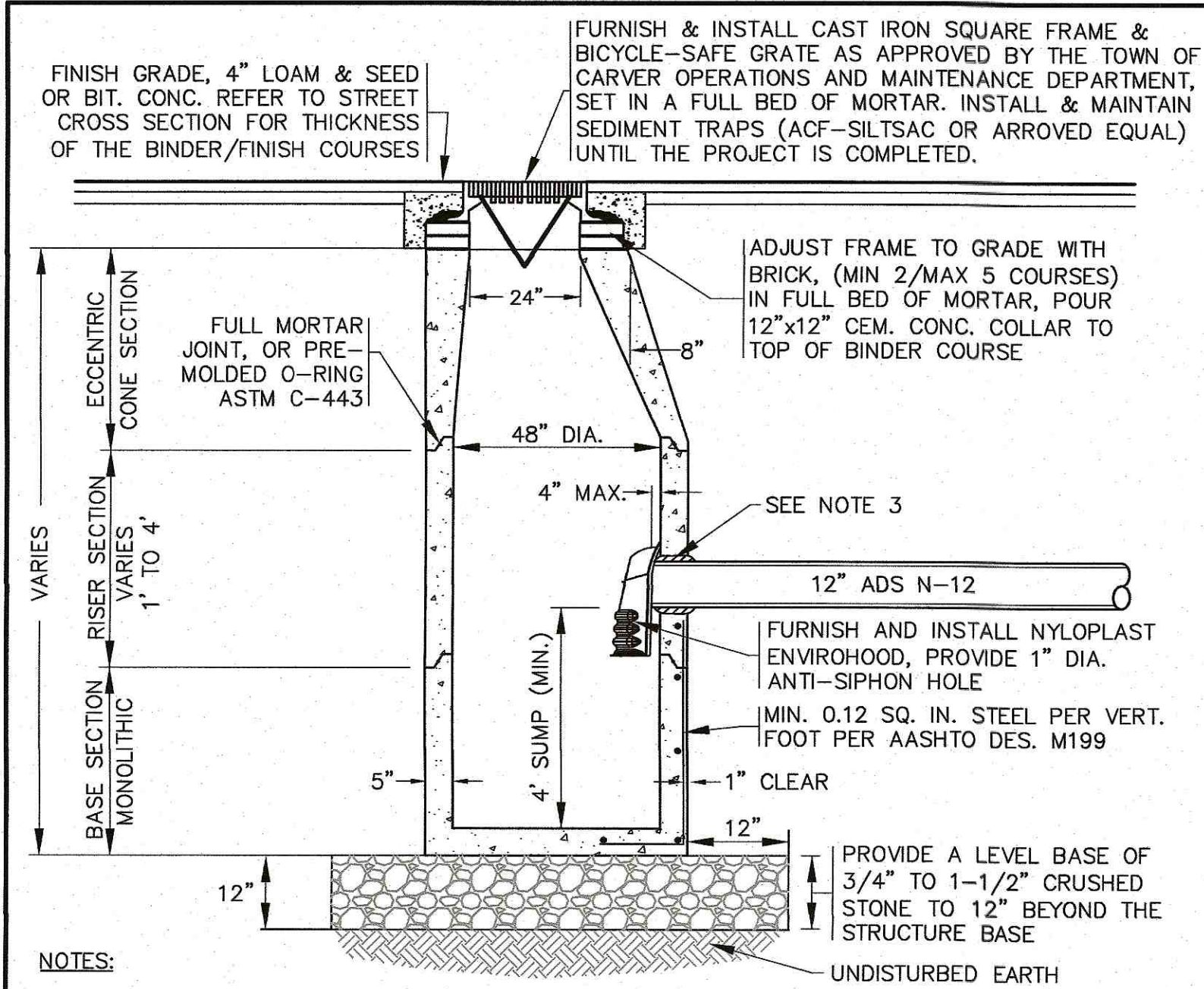
|                                                                                                                                                                                      |              |                 |                  |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|------------------|------------------|
| DATE: APRIL 11, 2022                                                                                                                                                                 | DRAWN BY: JH | CHECKED BY: WFM | JOB NO.: 22-9873 | SCALE: 1" = 300' |
| APPROVED BY:                                                                                                                                                                         |              |                 |                  |                  |
| APPROVED BY:                                                                                                                                                                         |              |                 |                  |                  |
| G.A.F. ENGINEERING, INC.<br>PROFESSIONAL ENGINEERS & LAND SURVEYORS<br>266 MAIN STREET - WAREHAM, MA 02571<br>TEL: (508) 295-6600 FAX: (508) 295-6634<br>E-MAIL: info@gafengrinc.com |              |                 |                  |                  |
| "WANKINCO"<br>PRELIMINARY SUBDIVISION PLAN<br>LOTING SHEET-1<br>FEDERAL ROAD<br>PREPARED FOR:<br>A.D. MAKEPEACE COMPANY<br>158 THONET ROAD<br>WAREHAM, MA                            |              |                 |                  |                  |
| JOB NO.: 22-9873                                                                                                                                                                     |              |                 |                  |                  |
| DWG. 6 OF 9                                                                                                                                                                          |              |                 |                  |                  |

|                  |  |                                                                                                                                                                    |  |                                                                                                                                                      |  |                                                                                                                                    |  |                                                                                |  |
|------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------|--|
| DWG. NO. 7 OF 10 |  | PRELIMINARY SUBDIVISION PLAN<br>"WANKINCO"<br>LOTTING SHEET-2<br>FEDERAL ROAD CARVER, MA<br>PREPARED FOR:<br>A.D. MAKEPEACE COMPANY<br>158 THONET ROAD WAREHAM, MA |  | G.A.F. ENGINEERING, INC.<br>PROFESSIONAL ENGINEERS & LAND SURVEYORS<br>406 MAIN STREET, WAREHAM, MA 02571<br>TEL: (508) 441-6600 FAX: (508) 295-8634 |  | APPROVED BY: <i>[Signature]</i><br>DATE: APRIL 11, 2022<br>DRAWN BY: JH<br>CHECKED BY: WFM<br>JOB NO.: 22-9873<br>SCALE: 1" = 300' |  | APPROVED BY: <i>[Signature]</i><br>DATE:<br>REV.<br>BY<br>APP'D<br>DESCRIPTION |  |
|------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------|--|

| LINE TABLE |        |             |
|------------|--------|-------------|
| LINE       | LENGTH | BEARING     |
| L11        | 132.39 | S60°51'00"W |
| L12        | 66.57  | N29°34'30"W |
| L13        | 240.00 | N89°51'00"E |
| L14        | 114.00 | N56°51'00"E |
| L15        | 243.00 | S89°09'00"E |
| L16        | 175.00 | N47°51'00"E |
| L17        | 137.00 | N88°51'00"E |
| L18        | 383.59 | N88°00'53"W |
| L19        | 32.32  | S87°58'50"E |
| L20        | 72.84  | N57°18'13"W |

| LINE TABLE |        |             |
|------------|--------|-------------|
| LINE       | LENGTH | BEARING     |
| L21        | 197.54 | S80°28'08"E |
| L22        | 187.49 | N73°11'15"E |
| L23        | 111.38 | S131°6'43"W |
| L24        | 130.81 | S39°46'39"W |
| L25        | 170.51 | S57°12'59"W |
| L26        | 196.76 | S09°46'17"E |
| L27        | 36.15  | S82°05'30"E |
| L28        | 200.00 | N83°56'38"W |
| L29        | 141.42 | S51°03'22"W |
| L30        | 141.42 | N38°56'38"W |

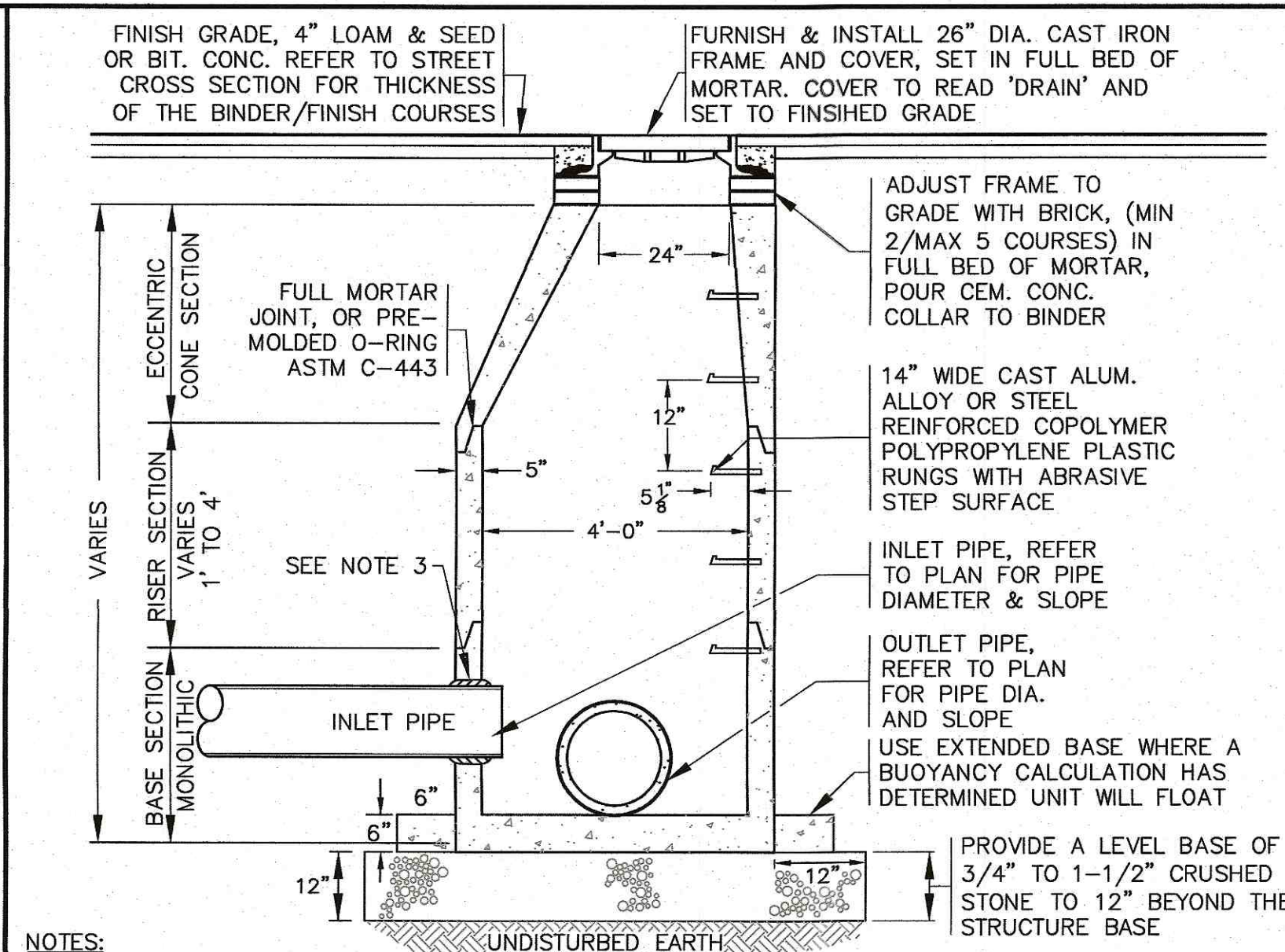




#### NOTES:

- STRUCTURES SHALL BE PRECAST CONCRETE IN ACCORDANCE WITH ASTM C-478, WITH H-20 LOADING, SECTION HEIGHTS VARY. CONCRETE STRENGTH 4000 PSI @ 28 DAYS.
- FOR SHALLOW INSTALLATION AND WHEN APPROVED BY THE ENGINEER, A FLAT TOP H-20 SLAB WITH A 24" OPENING CAST ECCENTRICALLY MAY BE USED. CONTRACTOR TO SUBMIT SHOP DRAWINGS.
- ALL STRUCTURE JOINTS AND PENETRATIONS SHALL BE WATER TIGHT. ALL PIPE CONNECTIONS TO CATCH BASINS SHALL BE MADE USING FLEXIBLE CONNECTIONS OF A TYPE APPROVED BY THE OPERATIONS AND MAINTENANCE DEPARTMENT.
- REFER TO PLANS FOR PIPE SIZES, INVERTS, RIMS AND LOCATIONS.
- IF THE TOP COURSE OF PAVEMENT IS NOT INSTALLED IMMEDIATELY AFTER THE BASE COURSE, CATCH BASIN RIMS SHALL BE SET TO THE BASE COURSE OF PAVEMENT AND THEN RAISED WHEN THE TOP COURSE OF PAVEMENT IS INSTALLED.

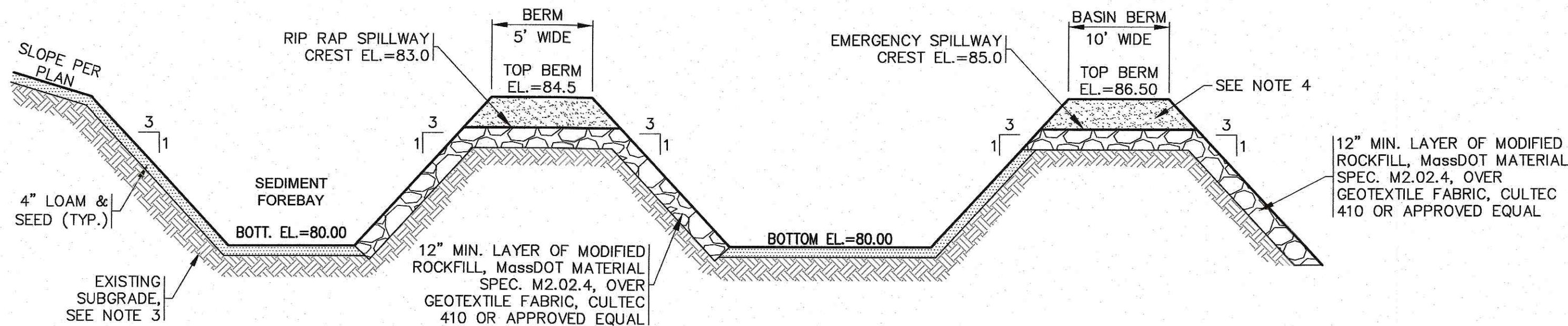
**PRECAST CONCRETE CATCH BASIN**  
N.T.S.



#### NOTES:

- STRUCTURES SHALL BE PRECAST CONCRETE IN ACCORDANCE WITH ASTM C-478, WITH H-20 LOADING, SECTION HEIGHTS VARY. CONCRETE STRENGTH 4000 PSI @ 28 DAYS.
- FOR SHALLOW INSTALLATION AND WHEN APPROVED BY THE ENGINEER, A FLAT TOP H-20 SLAB WITH A 24" OPENING CAST ECCENTRICALLY MAY BE USED. CONTRACTOR TO SUBMIT SHOP DRAWINGS.
- ALL STRUCTURE JOINTS AND PENETRATIONS SHALL BE WATER TIGHT. ALL PIPE CONNECTIONS TO MANHOLES SHALL BE MADE USING FLEXIBLE CONNECTIONS OF A TYPE APPROVED BY THE OPERATIONS AND MAINTENANCE DEPARTMENT.
- REFER TO PLANS FOR PIPE SIZES, INVERTS, RIMS AND LOCATIONS.
- WHERE REQUIRED PROVIDE "U" SHAPED BRICK INVERT, OR FOR STRAIGHT LINES RUN PIPE THROUGH THE MANHOLE AND CUT THE TOP OF THE PIPE OFF.
- IF THE TOP COURSE OF PAVEMENT IS NOT INSTALLED IMMEDIATELY AFTER THE BASE COURSE, CATCH BASIN RIMS SHALL BE SET TO THE BASE COURSE OF PAVEMENT AND THEN RAISED WHEN THE TOP COURSE OF PAVEMENT IS INSTALLED.

**PRECAST CONCRETE DRAIN MANHOLE**  
N.T.S.



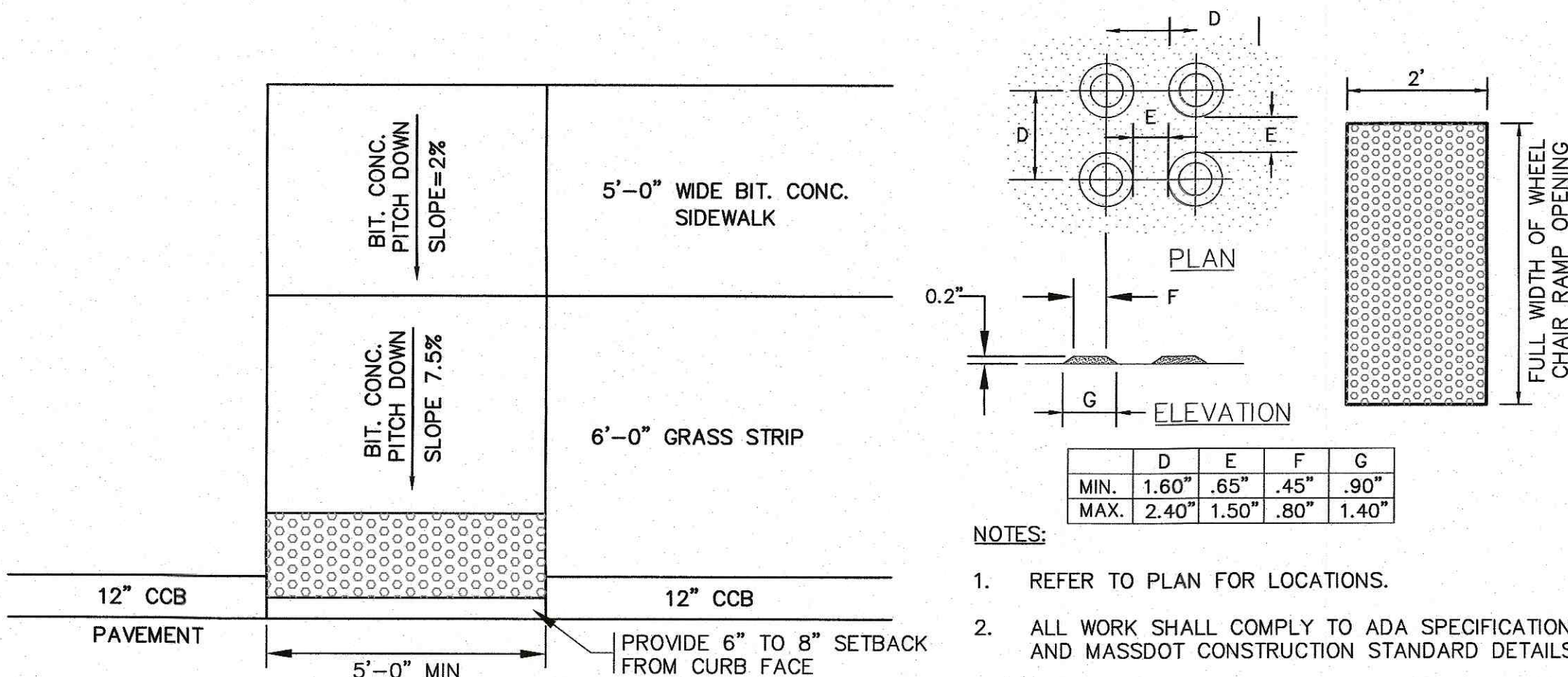
#### NOTES:

- GRASS SHALL BE MAINTAINED APPROXIMATELY 4" HIGH WITHIN THE DRAINAGE AREAS. REFER TO THE POST CONSTRUCTION MAINTENANCE NOTES.
- SLOPES SHALL BE CLEAR OF ALL OTHER VEGETATION.
- WHERE REQUIRED CONTRACTOR TO REMOVE ALL UNSUITABLE SOILS 2' BENEATH DRAINAGE BASIN AND REPLACE WITH CLEAN SAND AND GRAVEL APPROVED BY DESIGN ENGINEER.
- CONTRACTOR SHALL PLACE COMPACTED ORDINARY BORROW (M1.01.0) WITH STONE SIZE NO LARGER THAN 6" FOR FILL AREAS ADJACENT TO THE EMERGENCY SPILLWAY.

**DRAINAGE BASIN DETAIL**  
N.T.S.

#### NOTES:

- ALL SIDEWALK CROSS SLOPES, AS INDICATED IN STANDARD SPECIFICATIONS, WILL BE AT 1.5% MAX., 1.5% PREFERRED FOR BRICK, CEMENT CONCRETE AND BITUMINOUS CONCRETE (REFER TO STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, SECTION 700.) IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 2%.
- AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3.5' SHALL BE MAINTAINED. THE DESIRABLE WIDTH IS 4.0'.
- THE WHEEL CHAIR RAMP SLOPE AND SIDE SLOPES (TRANSITIONS) MUST NOT EXCEED 7.5% HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.
- THE ENTRANCE OF A WHEEL CHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
- SURFACE TESTING, WHEN TESTING WITH A STRAIGHTEDGE PLACED PARALLEL TO THE LINE OF SLOPE, THERE SHALL BE NO DEVIATION FROM A TRUE SURFACE IN EXCESS OF 1/4".
- ALL HANDICAP RAMPS SHALL HAVE DETECTABLE WARNINGS INSTALLED IN ACCORDANCE WITH THE MANUFACTURE, VANGUARD AD SYSTEMS & MASSDOT CONSTRUCTION STANDARD DETAILS.

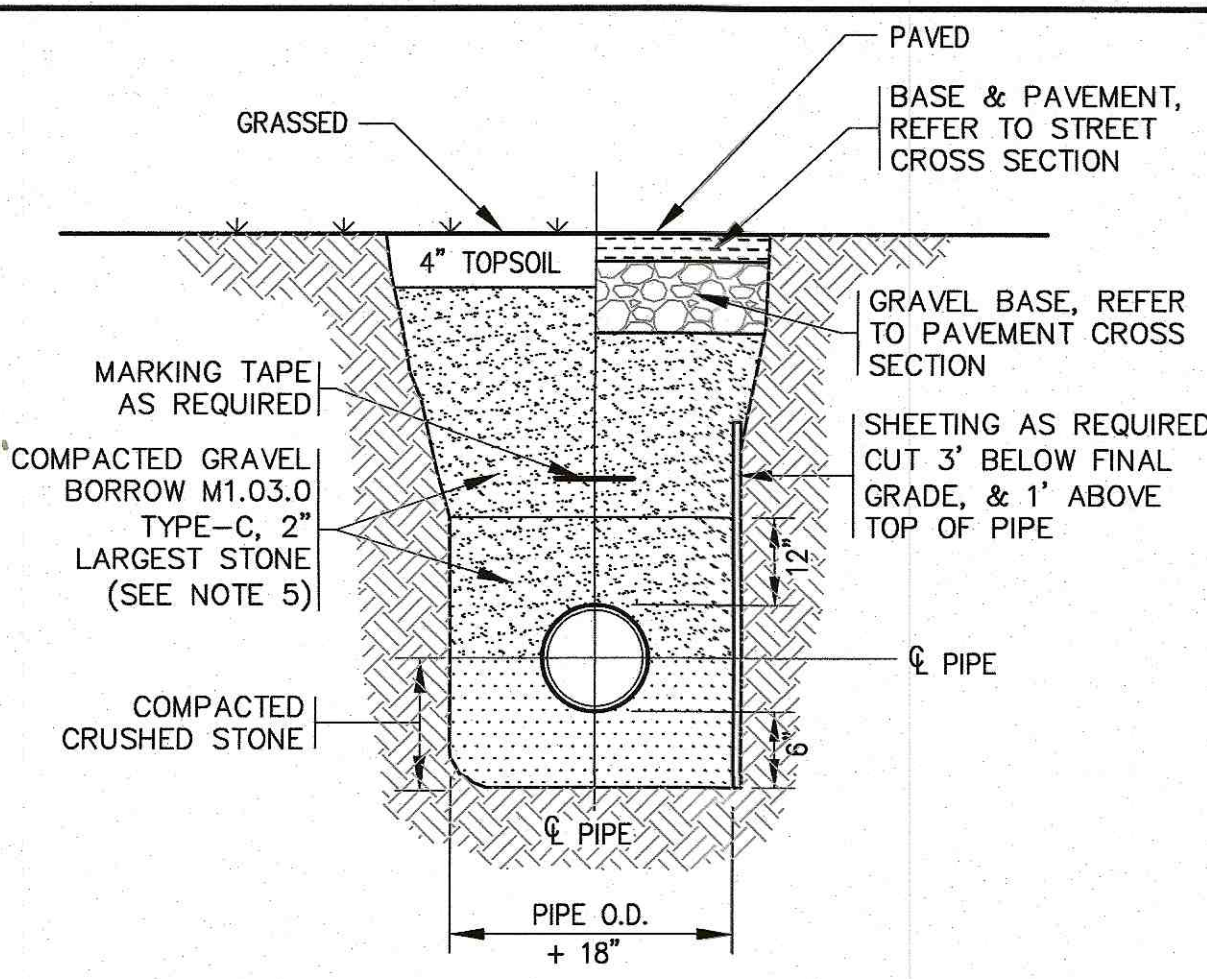


**WHEEL CHAIR RAMP**  
N.T.S.

**TRUNCATED DOME  
DETECTABLE WARNING PAD**  
N.T.S.

#### NOTES:

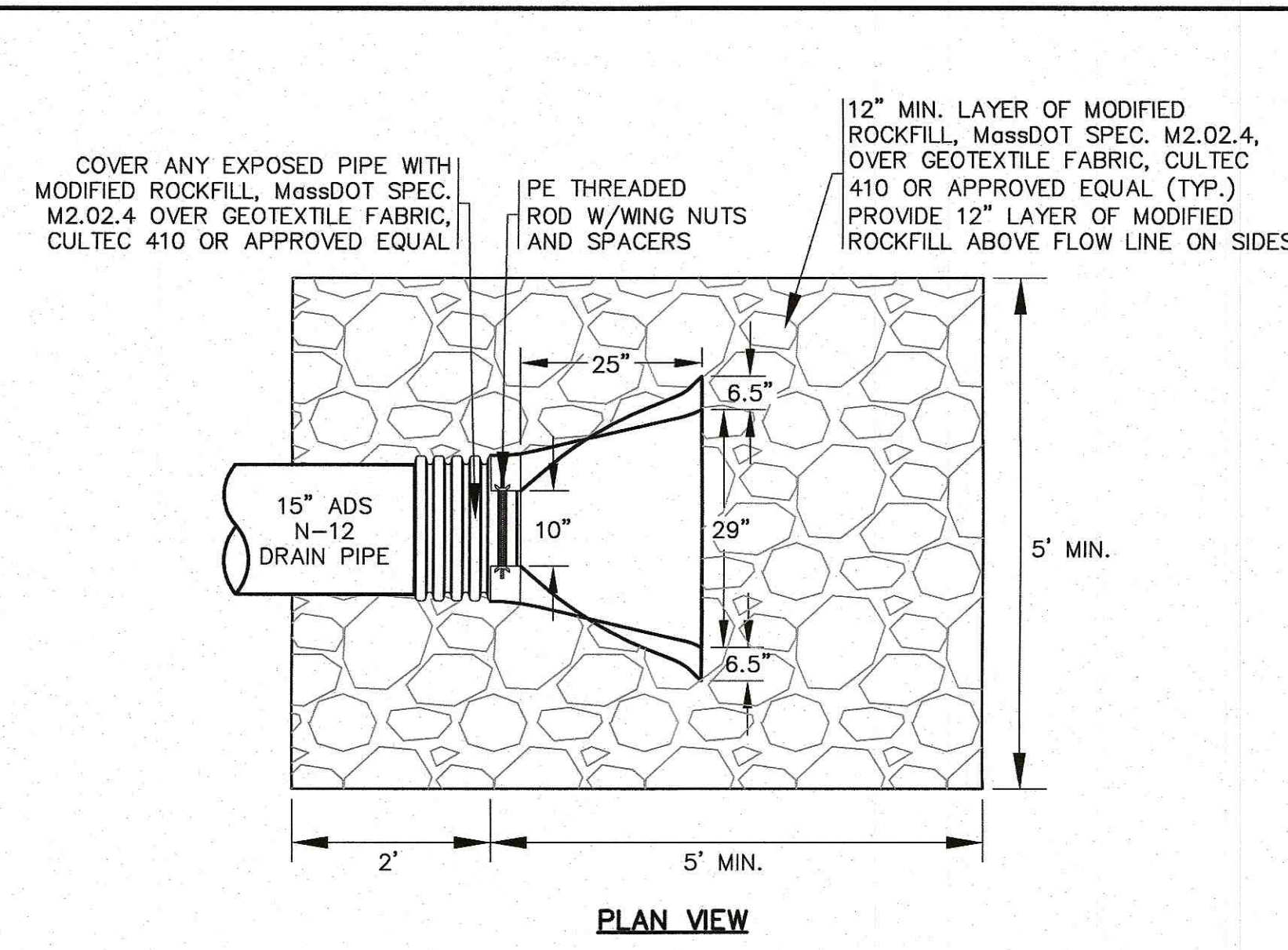
- REFER TO PLAN FOR LOCATIONS.
- ALL WORK SHALL COMPLY TO ADA SPECIFICATIONS AND MASSDOT CONSTRUCTION STANDARD DETAILS.



#### NOTES:

- PIPE BEDDING SHALL BE COMPACTED BEFORE PIPE INSTALLATION.
- COMPACTION AROUND PIPE SHALL BE BY TAMPER AT 6" MAX. LIFTS.
- MIN. COVER OVER PIPE = 1'-6"
- MIN. COVER OVER WATER SERVICES/MAINS = 5'-0"
- FOR ALL WORK IN FEDERAL ROAD USE FLOWABLE FILL AS REQUIRED BY THE TOWN OF CARVER OPERATIONS AND MAINTENANCE DEPARTMENT.

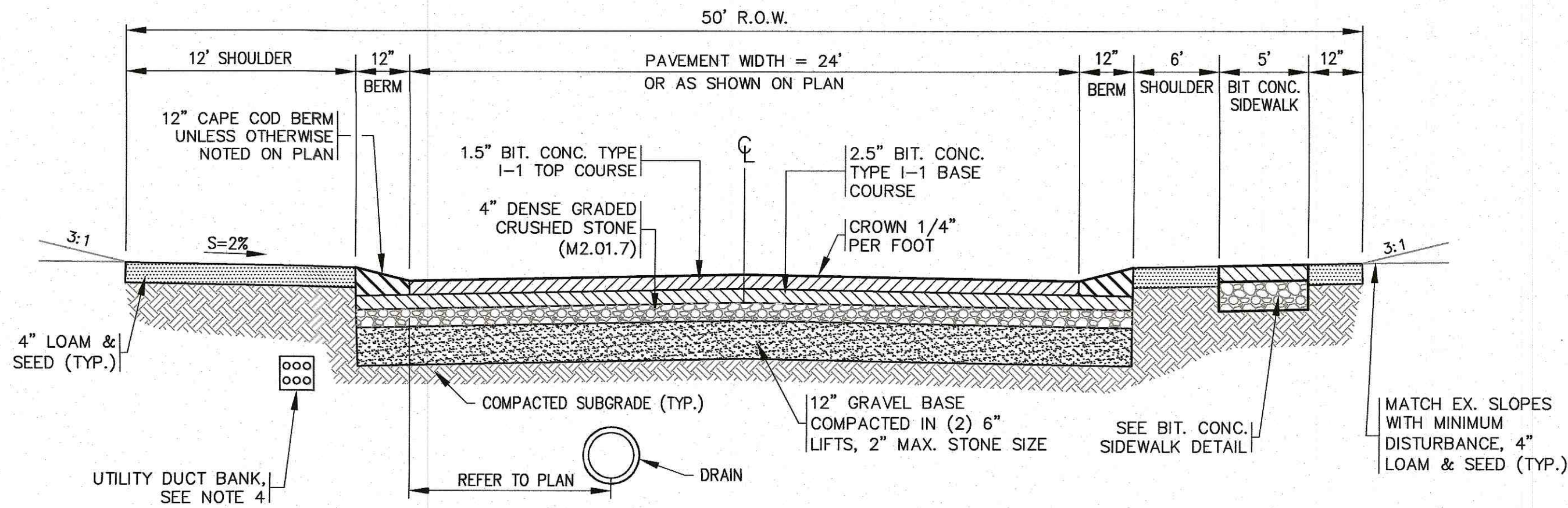
**TYPICAL PIPE TRENCH**  
N.T.S.



#### NOTES:

- REFER TO PLAN FOR LOCATIONS AND INVERTS.

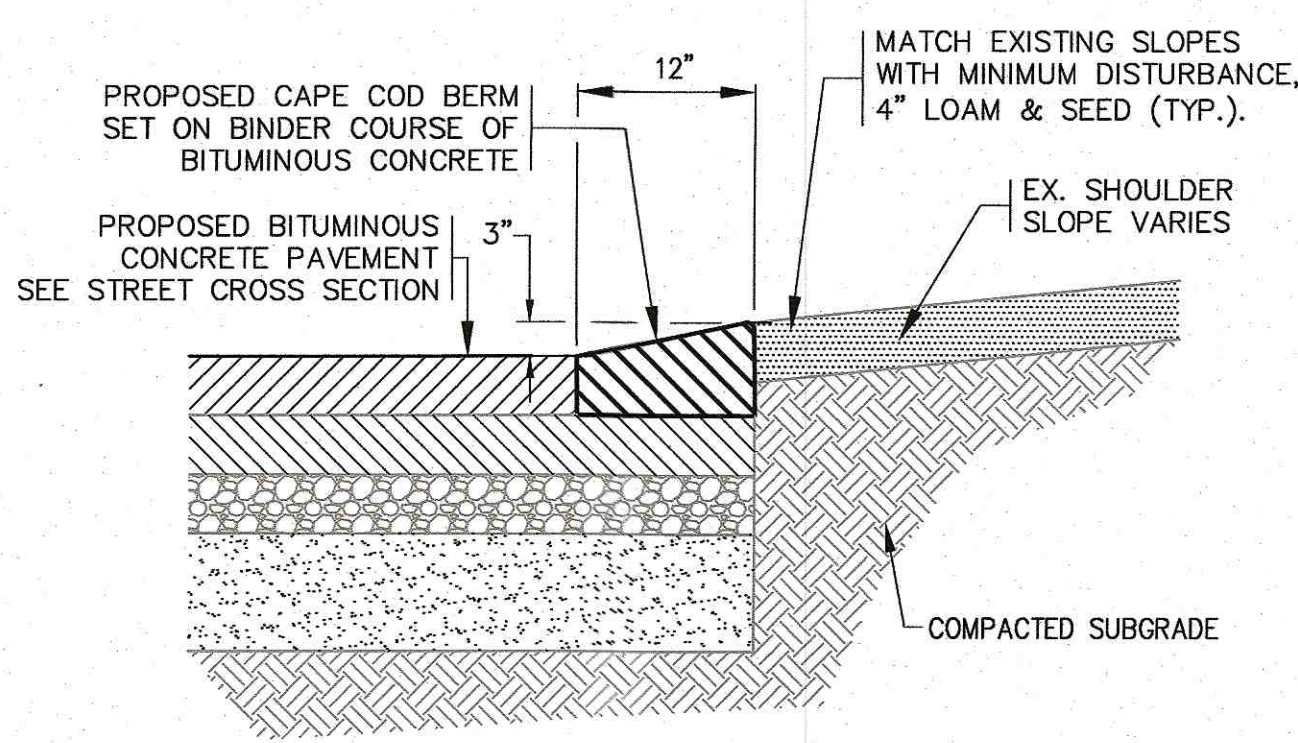
**TYPICAL PIPE TRENCH**  
N.T.S.



#### NOTES:

- ALL PAVEMENT SHALL BE IN ACCORDANCE WITH MASSDOT SECTION 460 & 401, UNLESS OTHERWISE NOTED, AND SHALL MEET TOWN OF CARVER SPECIFICATIONS.
- GRAVEL BASE SHALL CONFORM TO MASSDOT MATERIAL SPEC. M1.03.0 TYPE C.
- SUBGRADE & BASE SHALL BE COMPACTED TO MINIMUM 95% MAXIMUM DRY DENSITY.
- FINAL LOCATIONS, DEPTHS AND CONSTRUCTION OF UNDERGROUND ELECTRIC SERVICE SHALL BE DETERMINED BY THEIR RESPECTIVE UTILITIES COMPANY.

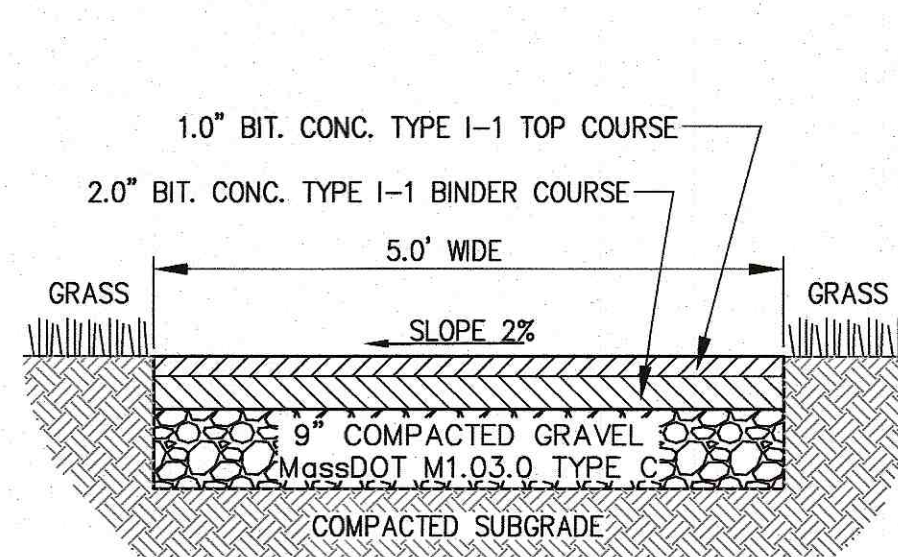
**TYPICAL STREET CROSS SECTION**  
N.T.S.



#### NOTES:

- SEE PLAN FOR LOCATIONS.
- ALL METHODS AND MATERIALS OF CONSTRUCTION SHALL COMPLY WITH THE LATEST REVISION OF MASSDOT STANDARD SPECIFICATIONS.

**BITUMINOUS CONCRETE BERM**  
N.T.S.



#### NOTES:

- SEE PLAN FOR LOCATIONS.
- ALL METHODS AND MATERIALS OF CONSTRUCTION SHALL COMPLY WITH THE LATEST REVISION OF MASSDOT STANDARD SPECIFICATIONS.

**BITUMINOUS CONCRETE SIDEWALK**  
N.T.S.

| DATE                 | BY               | APP'D | DESCRIPTION |
|----------------------|------------------|-------|-------------|
| DATE: APRIL 11, 2022 | DRAWN BY: J.M.P. |       |             |
| CHECKED BY: W.F.M.   |                  |       |             |
| JOB NO.: 22-9873     |                  |       |             |
| SCALE: N.T.S.        |                  |       |             |

| DATE                 | BY               | APP'D | DESCRIPTION |
|----------------------|------------------|-------|-------------|
| DATE: APRIL 11, 2022 | DRAWN BY: J.M.P. |       |             |
| CHECKED BY: W.F.M.   |                  |       |             |
| JOB NO.: 22-9873     |                  |       |             |
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| SCALE: N.T.S.        |                  |       |             |