

Section 4, Township 29 South, Range 16 East

Pinellas County, Florida

GENERAL NOTES

- All elevations refer to the National Geodetic Vertical Datum.
- The location of existing utilities are approximate as shown and it is the Contractor's responsibility to determine the exact locations of the utilities prior to construction in their vicinity.
- The Contractor shall notify the utility companies in the area before beginning construction.
- All underground utilities must be installed before base and surface courses are constructed.
- All water lines and sanitary sewer lines are PVC unless otherwise noted.
- Pipe measurements are to center of fittings or structures.
- All pipe lengths are plus or minus.
- Conflicts between water and storm or sanitary sewer systems are to be resolved by adjusting water lines as necessary.
- Water main to be kept 5 feet from right-of-way line at all cul-de-sacs.
- Sewer lines placed with less than 18" minimum vertical separation crossing water lines or storm sewer lines shall have 20 L.F. or ductile iron sanitary sewer centered on the conflict.
- Backfill over any pipe (storm sewer, water lines, sanitary sewer) that is to be installed under roadways or within the embankment of the roadway is to be compacted per F.O.D.T. specifications section 125-8.3, 1991 Edition. This particular section specifies compaction to 100% of maximum density as determined by AASHTO T-99.
- All right-of-way installations will comply with the F.O.D.T. Utilities Accommodation Guide.
- Disturbed areas within the right-of-way will be compacted to 100% of maximum density and sodded.
- Polyvinyl chloride (PVC) pipe 4" to 12" in diameter shall conform to the requirements of AWWA standard C900, DR-18 and up to 4' to the requirements of ASTM D2241-89, SDR-21.
- All water service crossing to be 3" PVC unless otherwise noted.
- Special care is to be taken so that trees to remain are unharmed during construction.
- All practicable and necessary effort shall be taken during construction to control and prevent erosion transport of sediment to surface drains and to lakes.
- For Lot grading type (see THIS SHEET).
- Required tree barricades and erosion control measures must remain intact throughout construction. Encroachment into or failure to maintain these barricades will result in enforcement action which may include citations and/or permit revocation as provided by Pinellas County Ordinance #90-16, as amended. SEE SHEET NO. 12 FOR DETAIL.
- Underdrains will be provided based on result of soil testing.

CONSTRUCTION NOTES

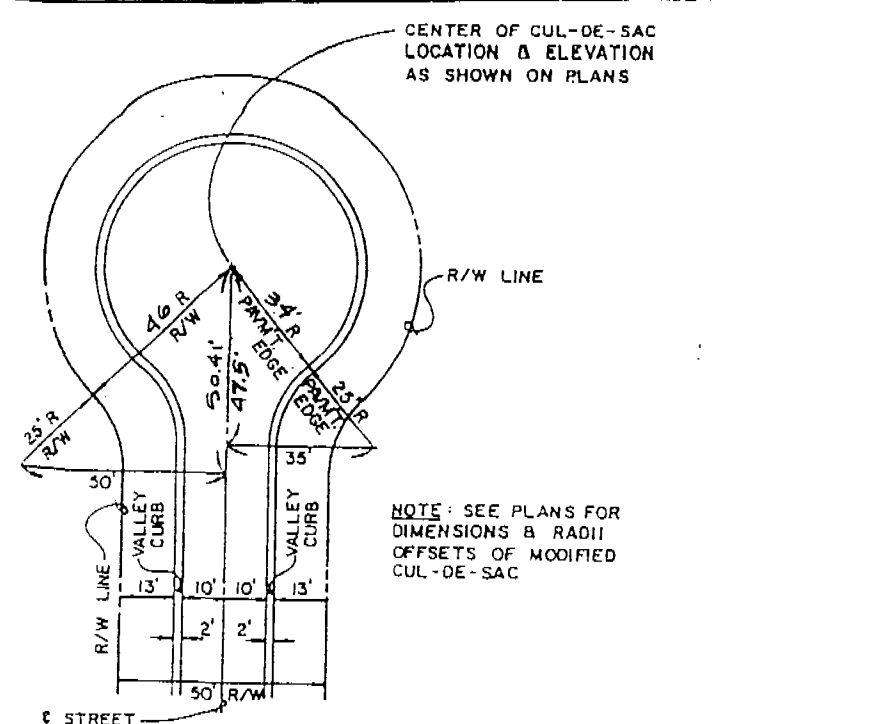
- All sidewalks to be a minimum 3,000 PSI concrete and 4" thick except at driveway crossings where they shall be 6" thick reinforced w/6"x6" #10 W.W.F.
- Length of storm sewer includes length of flared end section.
- All intersection back-of-curb radii are 25 feet unless otherwise noted.
- All design and construction must conform to the minimum standards set down in SAFETY HARBOR Land Development, Zoning and/or related ordinances.
- All right-of-way installations will comply with the State of Florida Utilities Accommodations Guide. SEE NO. 12 ABOVE.
- Disturbed area within the right-of-way will be compacted to 100% of maximum density and sodded. SEE NO. 13 ABOVE.
- Handicap ramps will be provided along sidewalk at all intersections FDOT Index No. 304.
- An approved insecticide must be applied to all pine trees remaining for protection against the prominent IPS Pine Beetle.
- Open burning is prohibited per Article V, CHB of City Code.
- Roadway pavement will not be open cut or disturbed.
- Place expansion joint between back-of-curb and the physically handicapped ramps.
- Saw cut the existing edge of pavement prior to removal of 400 L.F. of granite curb on Main Street. Deliver curb to City of Safety Harbor Public Works yard at 1500 Railroad Avenue.
- Compaction for pipe-backfill shall comply with AASHTO T-99 (100%) SEE NOTE 11 ABOVE.
- All proposed work must comply with F.O.D.T. Index No. 700.
- All right-of-way installations will be in accordance with practices referenced in the State of Florida Utilities Accommodations Manual. SEE NOTE 11 ABOVE.
- All proposed work within Pinellas County right-of-way must comply with the Pinellas County Utility Ordinance 92-63, Pinellas County Site Development Ordinance 92-62, and Pinellas County Access Management Ordinance 90-13, as amended by 92-58, and Minimum Testing Frequency requirements.
- Signs and barricades to be according to F.O.D.T. Manual of Safe Practices: reference F.O.D.T. Indexes 600 thru 650 and 17349 per Roadway and Traffic Design Standards latest edition or P.C. Indexes 100 thru 116. A "Maintenance of Traffic Plan" must be submitted to and approved by Pinellas County Traffic Engineering prior to the commencement of construction.
- Sidewalks to be reconstructed within three (3) days after removal of safe pedestrian traffic is to be maintained at all times. When existing sidewalk is removed, it is to be removed to the nearest expansion joint.
- *Addition Drainage Easements required by alterations for tree preservation will be submitted to the City of Safety Harbor by the Engineer of Record on a case by case basis.

OLD HARBOR PLACE

TOWERMARC CONSTRUCTION CORP.
1517 NORTH WESTSHORE BLVD.
TAMPA, FLORIDA 33607 (813) 287-8855

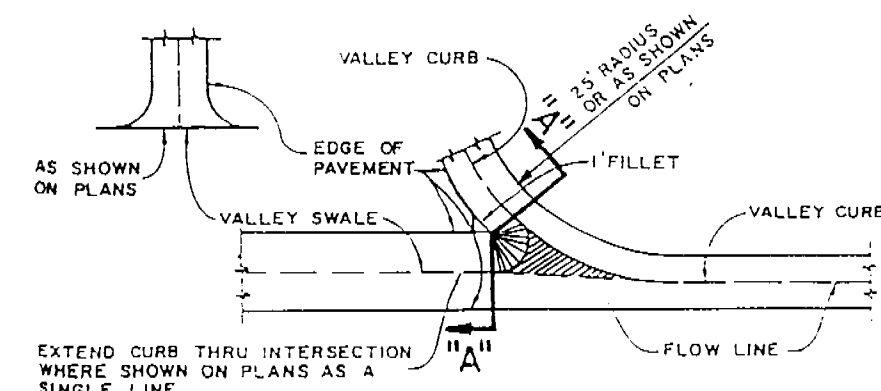
JCLA
John C. Landon & Associates
CIVIL & ENVIRONMENTAL ENGINEERS
PLANNERS - SURVEYORS
3482 U.S. 19, N. St. Petersburg, Florida 34684
Phone (813) 789-5010 FAX (813) 789-4384

SHEET
3
OF 15

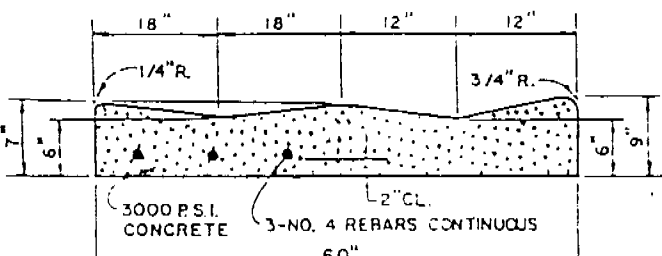


CUL-DE-SAC

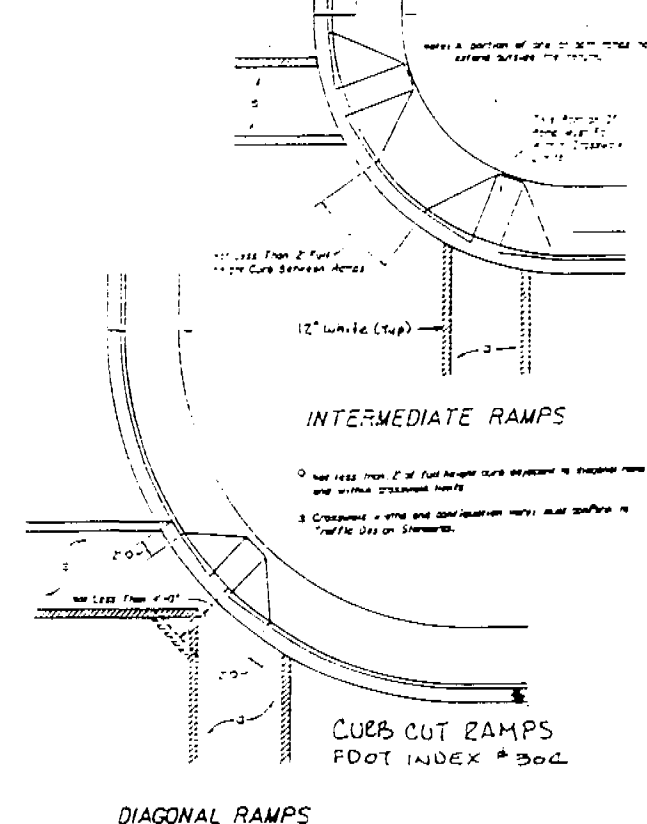
8-26 6-25-82
ADJUST FOR OFF-SET
DISTANCE 24.00



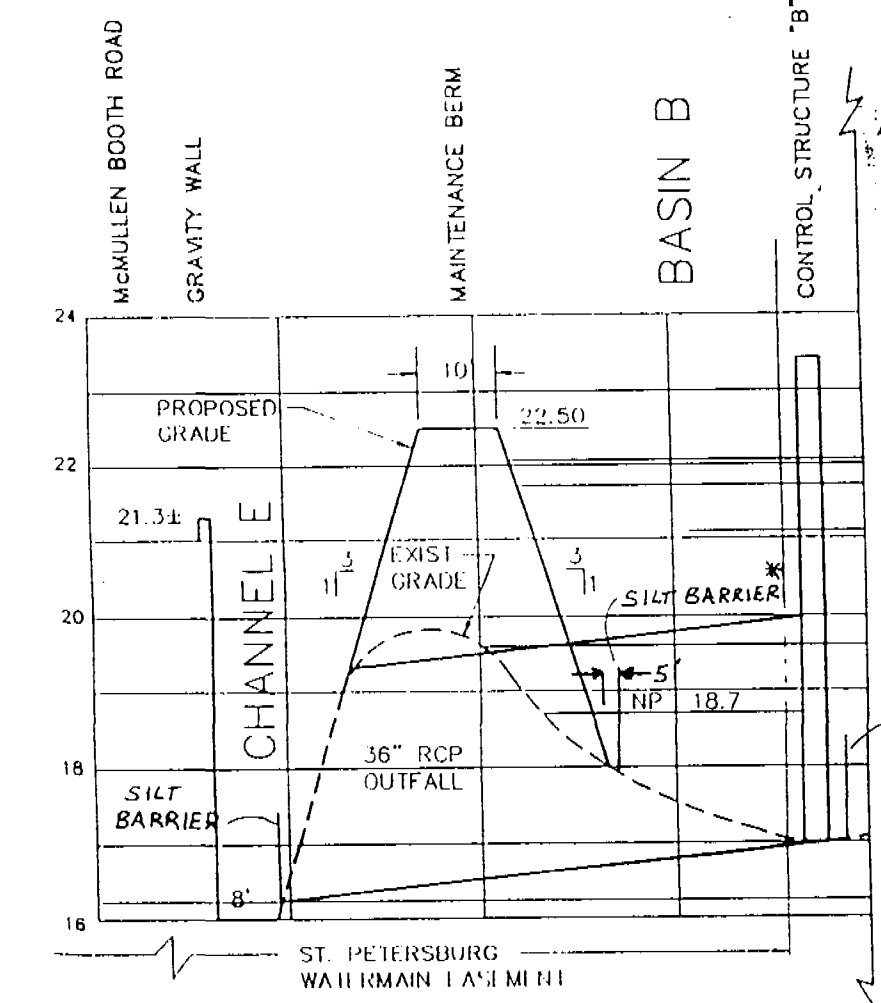
PLAN



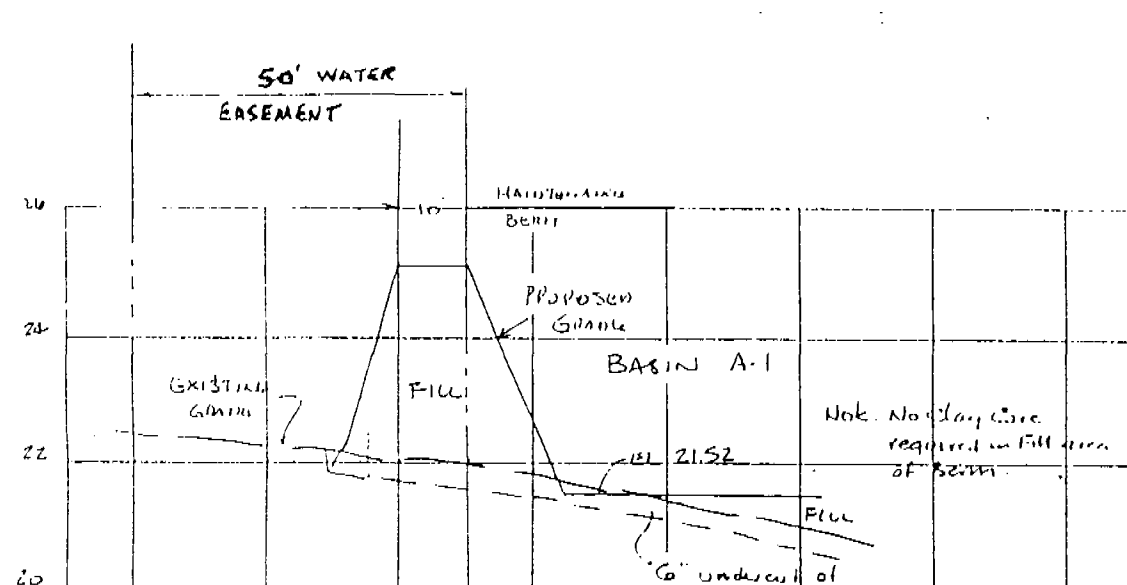
SECTION "A-A" VALLEY SWALE



DIAGONAL RAMPS

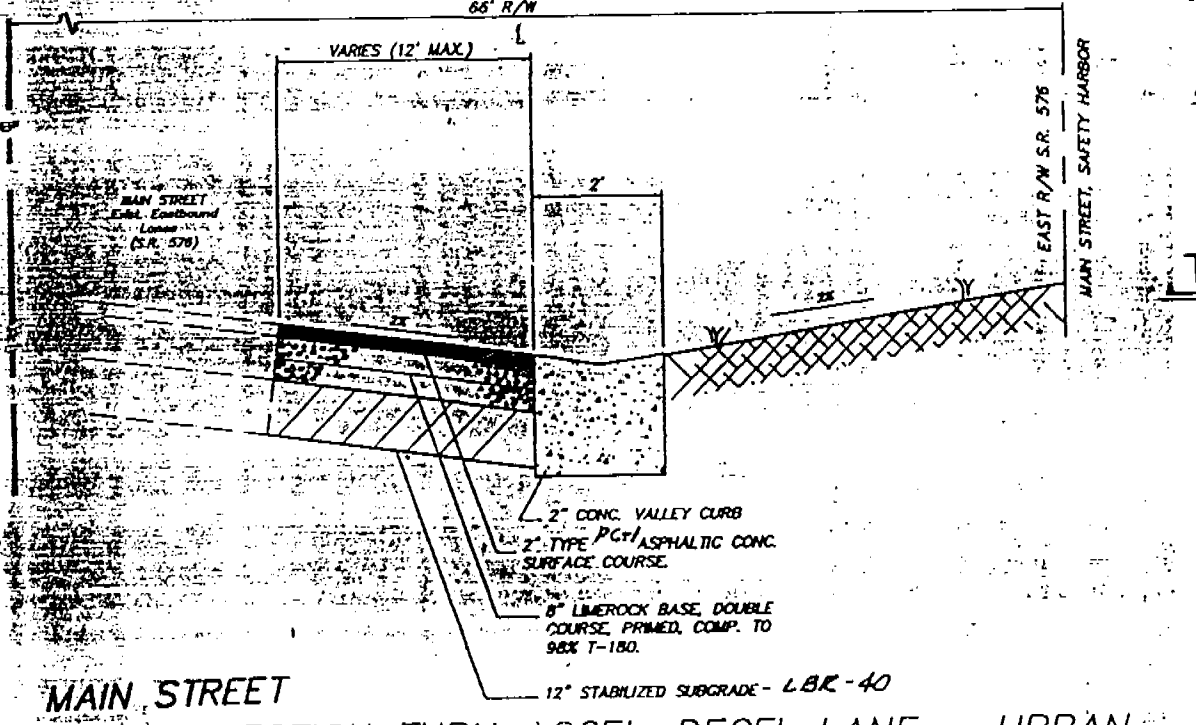


E-W SECTION CHANNEL E AND BASIN B

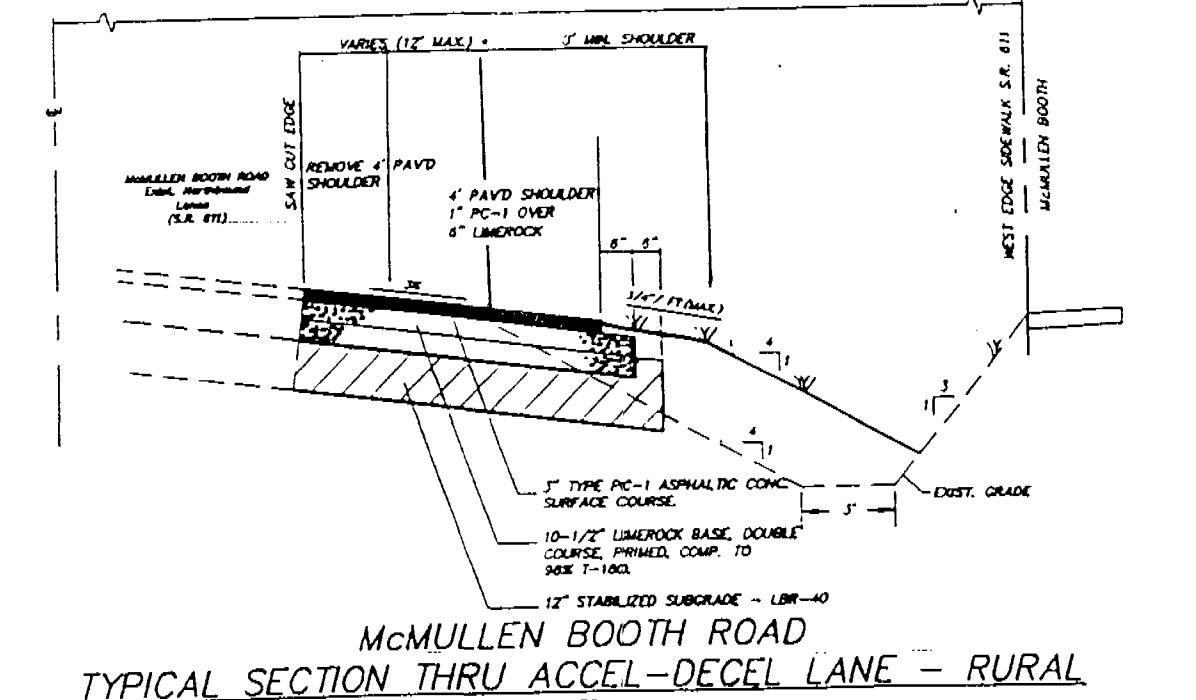


SECTION A1-A1

DEAR LOTS
47.45.49

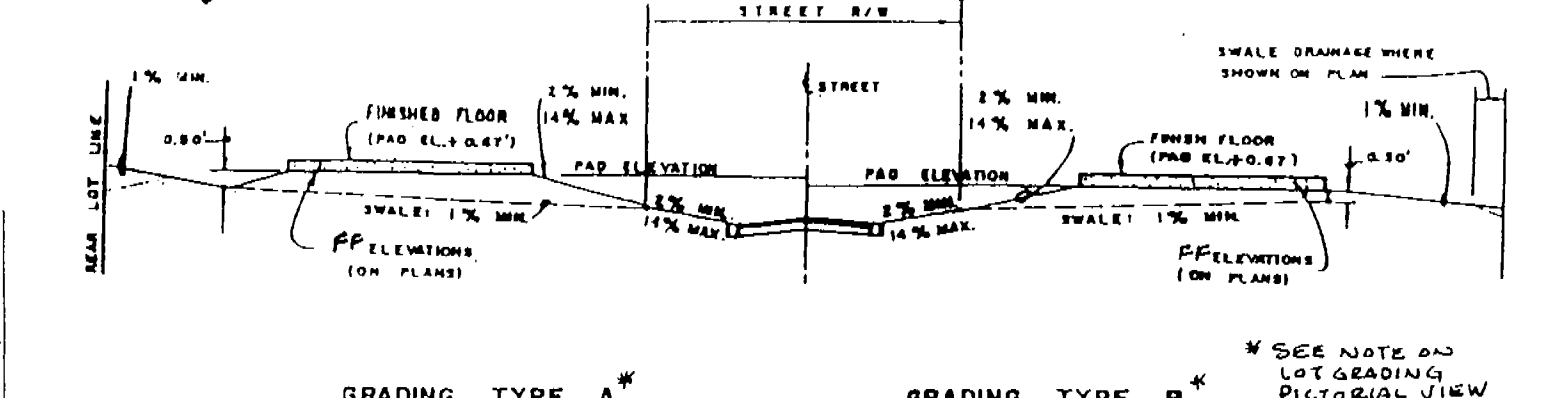


MAIN STREET TYPICAL SECTION THRU ACCEL-DECEL LANE - URBAN



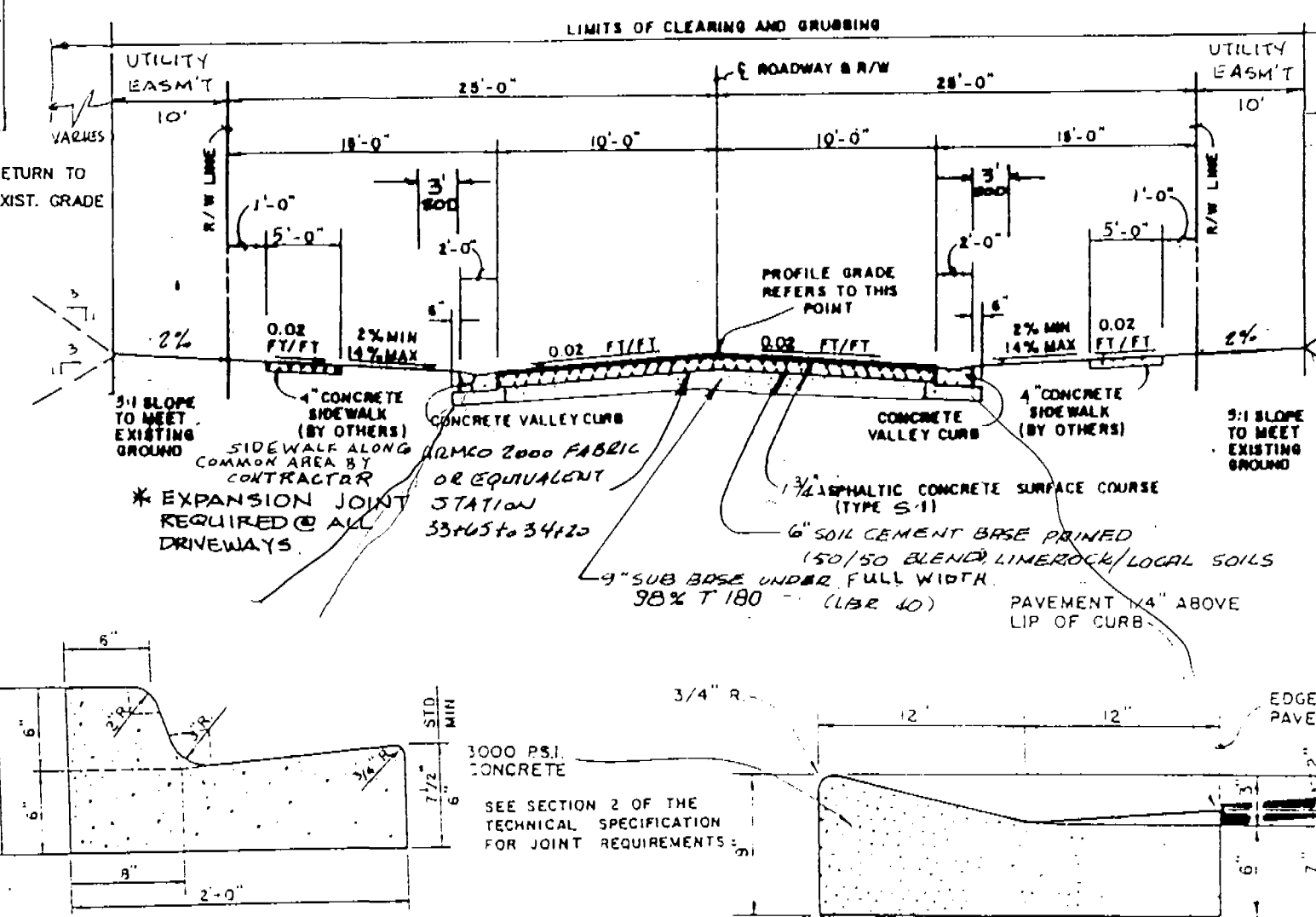
McMULLEN BOOTH ROAD TYPICAL SECTION THRU ACCEL-DECEL LANE - RURAL

* BEGIN STA 114+59.50 WITH 210' TAPER, 1' TO 12" W/IN AT STA 114+69.50
12" W/IN FROM STA 114+69.50 TO STA 117+49.50 TO MEET 35R RETURN.
12" W/IN AT STA 117+49.50, TAPER TO 0' AT STA 119+59.50



GRADING TYPE A

GRADING TYPE B



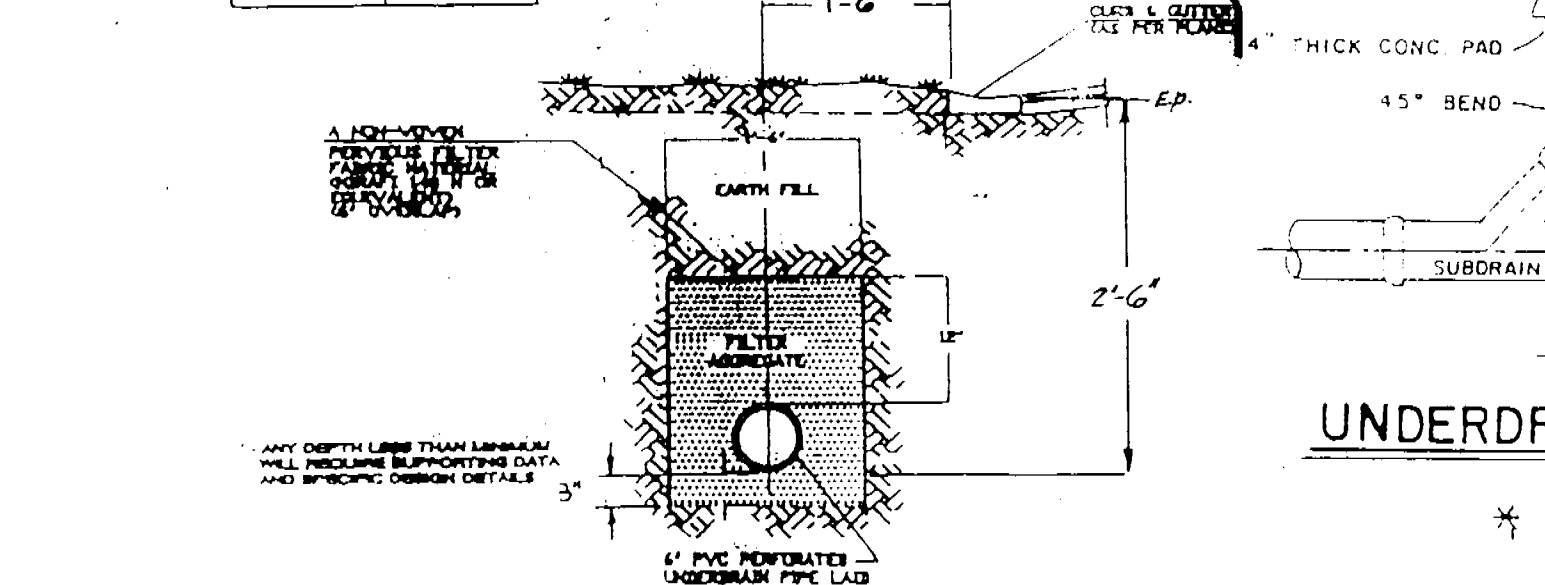
CONCRETE VALLEY CURB

NOTE: WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6" UNLESS OTHERWISE SHOWN ON PLANS.

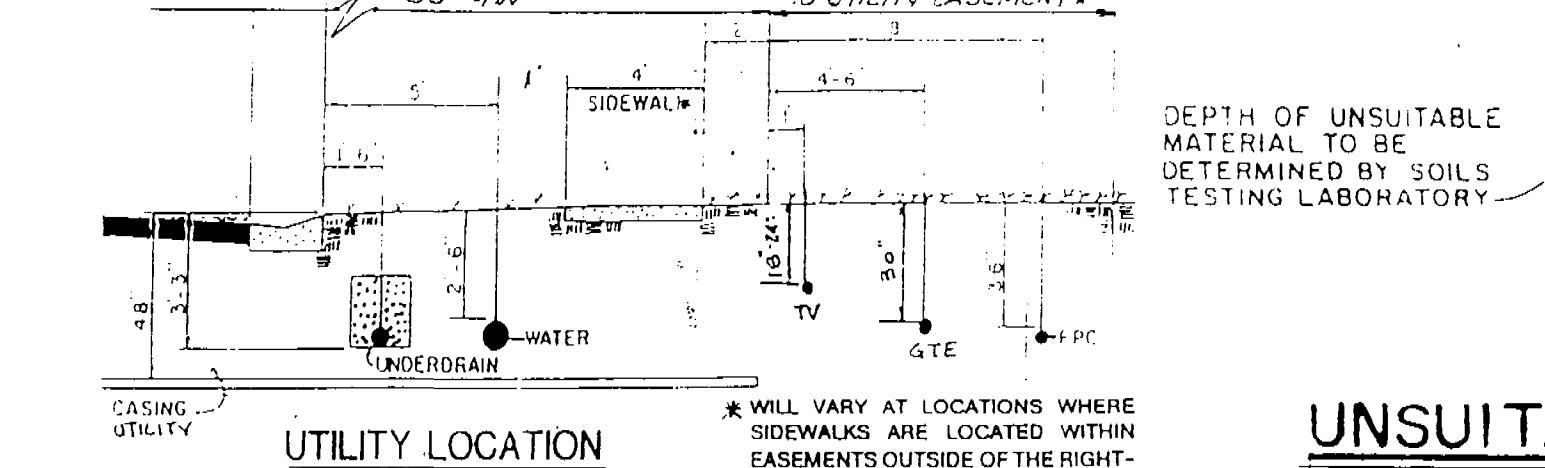
TYPE "F" CURB AND GUTTER

NOTES:
1. CURB SHALL CONFORM TO EITHER ASTM F796 OR ASTM D2033.
2. CURB SHALL BE 6" THICK UNLESS OTHERWISE SHOWN ON PLANS.
3. CURB SHALL BE 6" THICK UNLESS OTHERWISE SHOWN ON PLANS.

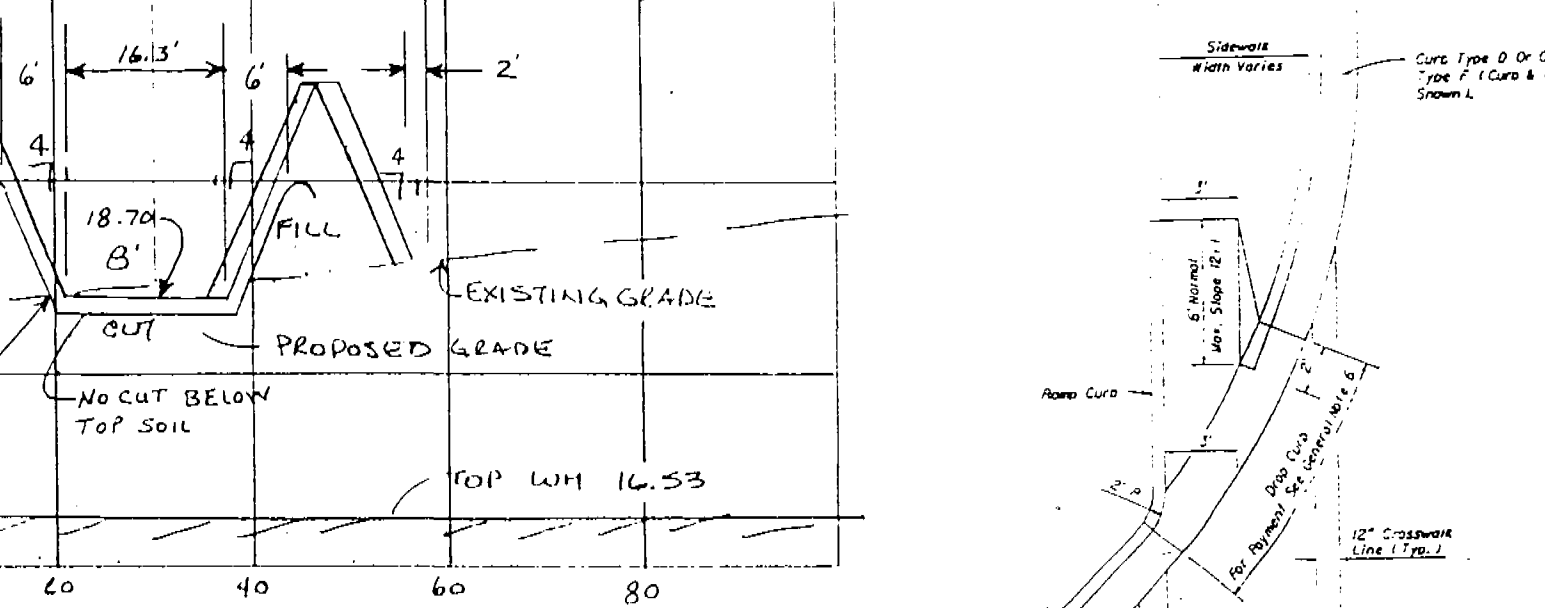
U.S. STANDARD PIPE SIZE	PERCENT FINER
1/2" INCH	100
3/4" INCH	100
1" INCH	100
1 1/2" INCH	100
2" INCH	100
3" INCH	100
4" INCH	100
6" INCH	100
8" INCH	100
10" INCH	100
12" INCH	100
15" INCH	100
18" INCH	100
21" INCH	100
24" INCH	100
30" INCH	100
36" INCH	100
42" INCH	100
48" INCH	100
54" INCH	100
60" INCH	100
72" INCH	100
84" INCH	100
96" INCH	100
108" INCH	100
120" INCH	100



UNDERDRAIN TYPICAL SECTION

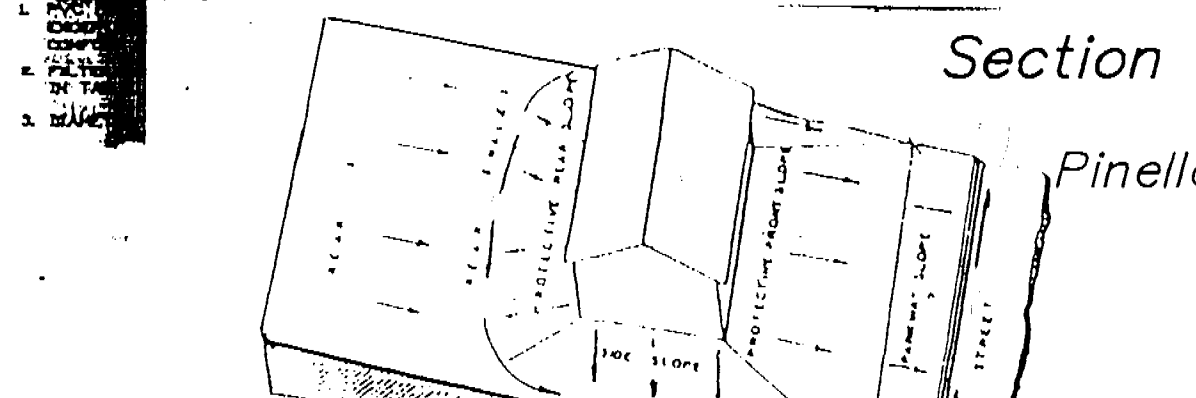


UTILITY LOCATION



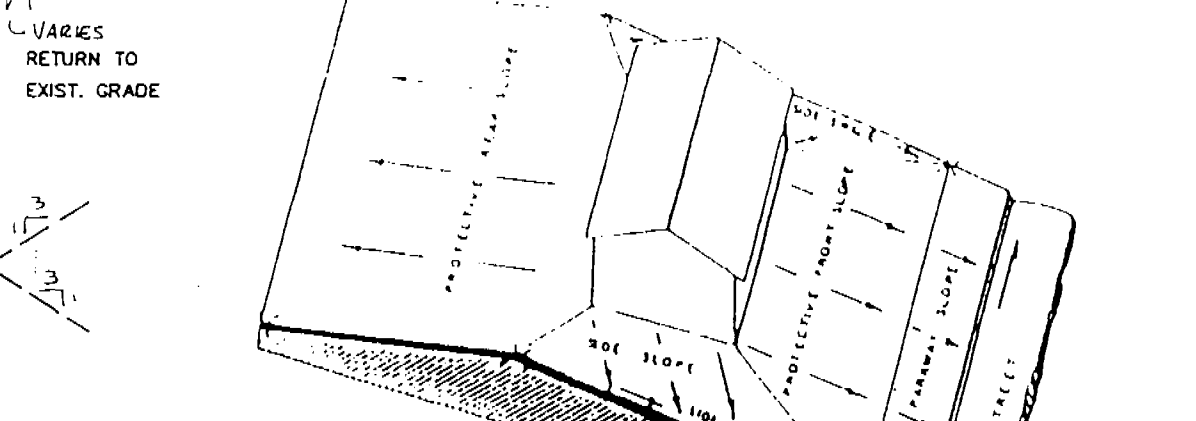
SECTION P1-P1

NOTE: NO HEAVY EQUIPMENT OVER WATER MAIN EASEMENT (SEE PERMIT)



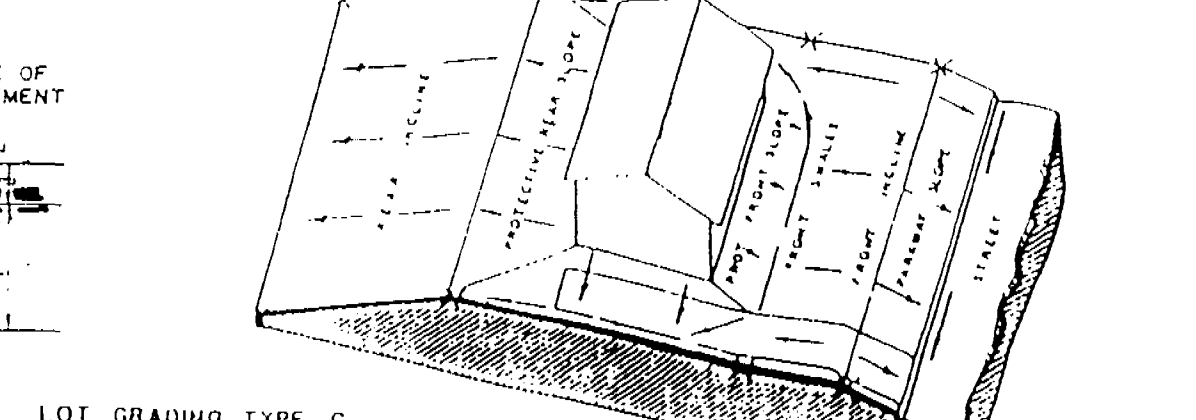
LOT GRADING TYPE A

ALL DRAINAGE TO STREET
MODIFIED TYPE A LOT GRADING
HAS BANK IN FRONTSETBACK



LOT GRADING TYPE B

DRAINAGE TO BOTH STREET AND REAR LOT LINE
MODIFIED TYPE B LOT GRADING
HAS HIGH POINT AT REAR BUILDING SETBACK



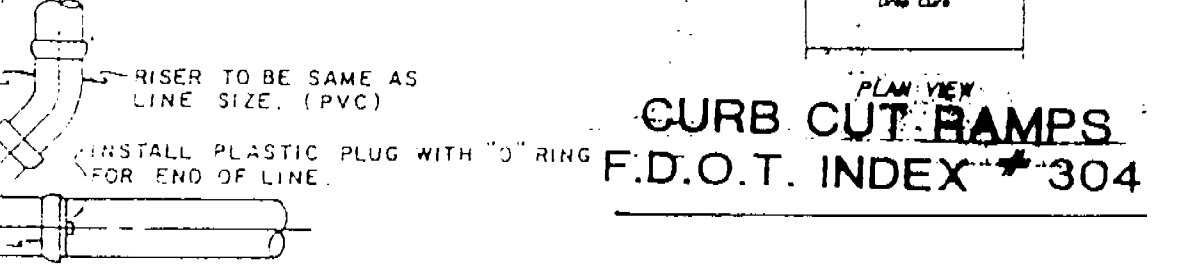
LOT GRADING TYPE C

NONE OF THIS PROJECT
ALL DRAINAGE TO REAR LOT LINE



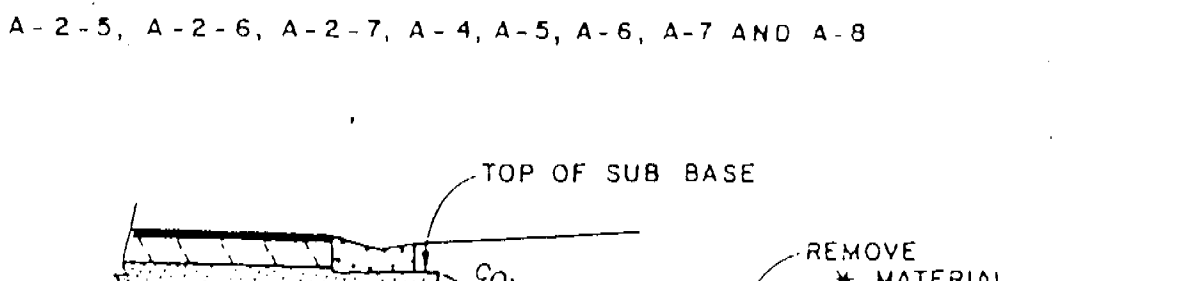
CURB CUT RAMPS F.O.D.T. INDEX #304

* A-2-5, A-2-6, A-2-7, A-4, A-5, A-6, A-7 AND A-8



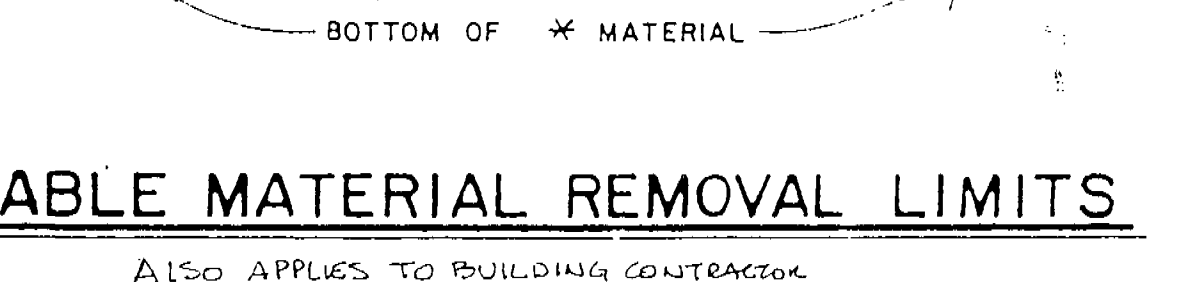
UNDERDRAIN CLEANOUT

* A-2-5, A-2-6, A-2-7, A-4, A-5, A-6, A-7 AND A-8



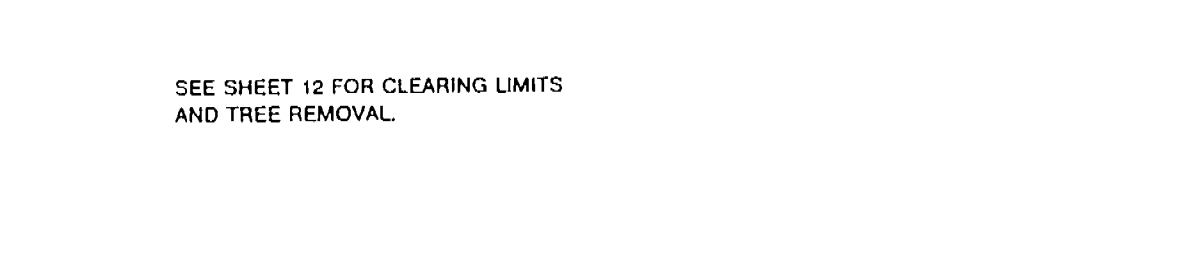
UNSUITABLE MATERIAL REMOVAL LIMITS

ALSO APPLIES TO BUILDING CONTRACTOR
SEE SHEET NO. 2A



SEE SHEET NO. 10 FOR SILT BARRIER TYPES AND DETAILS.

SEE SHEET 12 FOR CLEARING LIMITS
AND TREE REMOVAL.



PLAN VIEW

NOTE: NO HEAVY EQUIPMENT OVER WATER MAIN EASEMENT (SEE PERMIT)

PAVING & GRADING DETAILS