- PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITIES.
- THE CONTRACTOR SHALL SECURE THE WORK AREA WITH PROPER FENCING AND PROVIDE PUBLIC ACCESS TO THE BUSINESS AROUND THE WORK AREAS DURING CONSTRUCTION.
- THE LOCATIONS OF UNDERGROUND FACILITIES HAVE NOT BEEN SHOWN ON THE PLAN. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS WHEN EXCAVATING TO AVOID DAMAGING EXISTING UTILITIES. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL NOTIFY CONSTRUCTION /PROJECT MANAGER IN WRITING IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO INFORMATION SHOWN INCORRECTLY ON THESE PLANS IF SUCH WRITTEN NOTIFICATION HAS NOT BEEN GIVEN.
- CONTRACTOR SHALL AT ALL TIMES ENSURE THAT SWPP MEASURES PROTECTING EXISTING DRAINAGE FACILITIES BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY PHASE OF THE SITE CONSTRUCTION OR LAND ALTERATION.
- UPON COMPLETION OF PROJECT, CONTRACTOR SHALL CLEAN THE PAVED AREAS PRIOR TO REMOVAL OF TEMPORARY SEDIMENT CONTROLS, AS DIRECTED BY THE CITY AND/OR CONSTRUCTION/PROJECT MANAGER. IF POWER WASHING IS USED, NO SEDIMENT LADEN WATER SHALL BE WASHED INTO THE STORM SYSTEM. ALL SEDIMENT LADEN MATERIAL ON PAVEMENT OR WITHIN THE STORM SYSTEM SHALL BE COLLECTED AND REMOVED FROM THE SITE AT CONTRACTOR'S EXPENSE.
- THESE PROJECT CONSTRUCTION DOCUMENTS SHALL NOT CONSTITUTE A CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR THE ENGINEER AND
- THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION OR SAFETY MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN CONSTRUCTION BY THE CONTRACTOR OR SUBCONTRACTORS.

### GRADING PLAN NOTES

- PRIOR TO SITE CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL INSTALL SEDIMENT FILTER BAGS IN ALL EXISTING CATCH BASINS ADJACENT TO THE PROJECT AREA. CONTRACTOR SHALL PREVENT SILTATION FROM LEAVING THE SITE AT ALL TIMES.
- STRIP BUILDING AND PAVEMENT AREAS OF ALL ORGANIC TOPSOILS. STOCKPILE SUITABLE TOPSOILS FOR RESPREADING ONTO LANDSCAPE AREAS. ALL EXCESS EXCAVATED MATERIALS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO ENSURE POSITIVE FINISH GRADING AWAY FROM BUILDING AND THROUGHOUT PROJECT AREA.

### UTILITY NOTES

## **GENERAL UTILITY NOTES**

- CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES IMMEDIATELY AFTER BID IS AWARDED AND ENSURE THE UTILITY COMPANIES HAVE THE ESSENTIALS REQUIRED FOR COMPLETE SERVICE INSTALLATION. CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER AND ENGINEER OF ANY TIME FRAMES ESTABLISHED BY UTILITY COMPANIES WHICH WILL NOT MEET OPENING DATE.
- CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, INVERT ELEVATION, AND CONDITION OF EXISTING UTILITIES WHICH ARE INTENDED TO BE UTILIZED AS A CONNECTION POINT FOR ALL PROPOSED UTILITIES, PRIOR TO ANY CONSTRUCTION. CONTRACTOR TO ENSURE EXISTING UTILITIES ARE IN GOOD CONDITION AND FREE FLOWING (IF APPLICABLE). IF ELEVATIONS, SIZE, OR LOCATION DIFFER FROM WHAT IS SHOWN, THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IN WRITING

### STORM SEWER NOTES

- ALL STORM SEWER PIPE 12" IN DIAMETER AND LESS SHALL BE PVC, SDR 35, PER ASTM D 3034, AND JOINTS PER ASTM D 3212.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRENCHING, BACKFILLING AND PIPE INSTALLATION, PIPE MATERIAL AND TAP CONNECTION. COORDINATE ALL WORK WITH THE

# SITE PLAN NOTES

- ALL EXTERIOR SITE SPECIFIC PORTLAND CONCRETE CEMENT SHALL MEET THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR CURING AND INSTALLATION. THE MINIMUM P.C.C. ALLOWED IS 4000 P.S.I. AT 28 DAY, WITH AIR ENTRAINMENT MEETING THE DOT REQUIREMENTS. (CONTRACTOR SHALL REFER TO DETAILS WITHIN THIS DRAWING SET FOR ANY VARIATIONS TO THIS SPECIFICATION).
- 2. ALL EXTERIOR CURB SHALL HAVE EXPANSION JOINTS AT 100'-0" O.C, AND CONTROL JOINTS AT 10'-0" O.C. (UNLESS OTHERWISE SPECIFIED ON THE DETAIL SHEETS) ALL EXTERIOR WALK SHALL HAVE EXPANSION JOINTS AT 20'-0" O.C. AND CONTROL JOINTS @ 5'-0" MAX. O.C. (UNLESS OTHERWISE SPECIFIED ON THE DETAIL SHEETS).
- 3. ALL CONCRETE SHALL HAVE A MEDIUM TRANSVERSE FINISH
- ALL SUBGRADE COMPACTION FOR ASPHALT PAVING TO BE 96% OF STANDARD PROCTOR MAXIMUM DRY DENSITY PER A.S.T.M. TEST D-698. MOISTURE CONTENT AT THE TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 2% BELOW OPTIMUM.
- AGGREGATE BASE COURSE TO CONFORM TO MODOT STANDARDS FOR BASE COURSE COMPACTED TO 100% OF THE MODIFIED PROCTOR (A.S.T.M. D-1557) MAXIMUM DRY

# REFER TO THIS POINT - 1" RADIUS BOTH SIDES FINISH GRADE-- SEAL JOINT (PAVEMENT ELEVATIONS REFER TO THIS POINT) — PAVEMENT AS SPECIFIED PORTLAND CEMENT CONCRETE

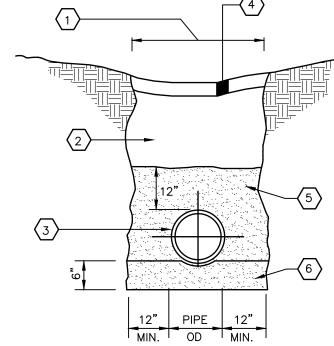
### **KEYED NOTES**

- $\left\langle 1 \right\rangle$  EXCAVATE WIDTH OF TRENCH AS NEEDED
- 2) PLACE SUITABLE SOIL OR GRANULAR BACKFILL IN 6" MAX. LIFTS. SUITABLE SOIL SHALL BE COMPACTED TO 90% MIN. (98% MIN. UNDER PAVEMENT) DRY DENSITY, PER ASTM D698, GRANÚLAR BACKFILL SHALL BE COMPACTED TO 75% (80% UNDER PAVEMENT) RELATIVE DENSITY, PER ASTM 4353. GRANULAR
- TOPSOIL, SEED, AND MULCHING OR PAVEMENT AS DETAILED ELSEWHERE.
- \* NO. 57 OR NO. 67 AGGREGATE \* NO. 57 OK NO. 07 AGGILGT...

  PLACED A MINIMUM OF 12" ABOVE THE

TOP OF THE PIPE

\* NO. 57 OR NO. 67 AGGREGATE PLACED A MINIMUM OF 6" BELOW THE BOTTOM OF THE PIPE

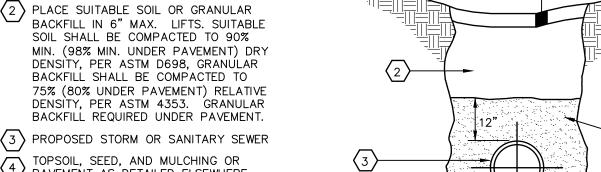


ACCORDANCE WITH MATERIALS APPROVED BY THE CM.

**SEWER TRENCH** 

# WATER POLLUTION PREVENTION ITEMS AT ALL TIMES. OTHER EARTH MOVING OCCURS. MEASURES WILL BE USED ON THIS SITE: SILT FENCE.

PAVEMENT DIMENSIONS



\* CONTRACTOR SHALL INSTALL PER STATE D.O.T. SPECIFICATIONS IN

OF MISSOURI DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATION HANDBOOK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO POSSESS AND TO BE FAMILIAR WITH APPLICABLE SECTIONS. 2. THIS CONTRACT DRAWING SHALL BE MADE AVAILABLE ON SITE AT ALL TIMES AND PRESENTED UPON REQUEST. IF UNFORESEEN STORM WATER POLLUTION PREVENTION IS ENCOUNTERED, ADDITIONAL STORM WATER POLLUTION PREVENTION (SWPP) MEASURES MAY BE REQUESTED BY THE OWNER, COUNTY, CITY ENGINEER, PROJECT ENGINEER OR SOIL CONSERVATION SERVICE REPRESENTATIVE AT ANYTIME. SUCH REQUESTS SHALL BE

IMPLEMENTED IMMEDIATELY AT CONTRACTOR'S EXPENSE. 3. ALL STORM WATER POLLUTION PREVENTION ITEMS SHALL BE INSTALLED AS SHOWN OR NOTED ON THE PLANS.

SWPP NOTES

ALL WORK SPECIFIED AS AN IDOT ITEM SHALL BE GOVERNED BY THE CURRENT STATE

4. PLANT TEMPORARY SEEDING AND MULCHING IN ALL AREAS THAT SHALL BE INACTIVE FOR 7 DAYS OR MORE. ALL DISTURBED AND ERODED EARTH SHALL BE REGRADED AND SEEDED WITHIN 7 DAYS WITH SEEDING, AS DEFINED ABOVE AND AS SHOWN ON THE TABLE BELOW, TO ESTABLISH STABILITY AND PROVIDE SEDIMENT CONTROL. WHERE POSSIBLE, TEMPORARY SEEDING GROWTH SHALL NOT BE MOWED UNTIL IT HAS GONE TO SEED FOR 1 YEAR.

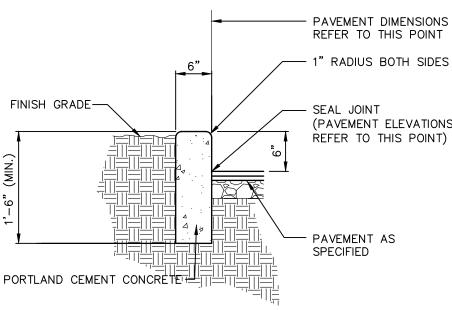
TEMPORARY SEEDING SPECIFICATIONS:		
SEEDING DATES	SEED TYPE	APPLICATION RATE PER 1,000 S.F.
MARCH 1 - AUGUST 15	OATS PERENNIAL RYE GRASS OR TALL FESCUE	3# 1#
AUGUST 16 - NOVEMBER 1	RYE, WHEAT OR PERENNIAL RYE GRASS TALL FESCUE	3# 1#
AFTER NOVEMBER 1	STRAW OR HAY MULCH	2-3 BALES
SEED BED PREPARATION	LIME 10-10-10 OR 12-12-12	100#

5. PERMANENT VEGETATION SHALL BE INSTALLED WITHIN 7 DAYS AT THE COMPLETION OF ANY GRADED AREAS, WEATHER PERMITTING

12-15#

FERTILIZER

- 6. AT SUCH TIME ROUGH GRADING OF THE SITE IS COMPLETE AND DRAINAGE DIVERTS TO INLETS, INLET SEDIMENT FILTERS SHALL BE INSTALLED AT ALL INLET STRUCTURES TO KEEP PIPING SYSTEMS FREE OF SILTATION.
- . SILT BARRIERS SHALL BE INSTALLED AROUND ALL EXISTING OR NEW STORM INLETS, CATCH BASINS, AND YARD DRAINS. INSTALL ROCK CHECK DAMS FOR HEADWALL INLETS FOR STORM WATER POLLUTION PREVENTION.
- 3. STORM WATER POLLUTION PREVENTION MEASURES SHALL BE INSTALLED AROUND ALL DIRT OR TOPSOIL STOCKPILES AND OTHER TEMPORARILY DISTURBED AREAS AS SHOWN ON THESE PLANS AND AS DIRECTED BY THE ENGINEER.
- 9. CONTRACTOR SHALL INSPECT ALL SWPP MEASURES DAILY AND REPAIR AS NECESSARY TO PREVENT EROSION. SILTATION SHALL BE REMOVED FROM AREAS WHERE FAILURES HAVE OCCURRED AND CORRECTIVE ACTION TAKEN WITHIN 24 HOURS TO MAINTAIN ALL
- 10. SILT BARRIERS, CONSTRUCTION ENTRANCES, AND SILT FENCES SHALL REMAIN IN PLACE UNTIL A GOOD STAND OF GRASS HAS BEEN OBTAINED AND/OR PAVING OPERATIONS ARE COMPLETE. CONTRACTOR SHALL KEEP SILT FROM ENTERING ANY STORM DRAINAGE SYSTEM. ONCE SITE HAS BEEN COMPLETELY STABILIZED, ANY SILT IN PIPES AND DRAINAGE SWALES SHALL BE REMOVED WITHIN 10 DAYS.
- 11. TEMPORARY SEDIMENTATION AND STORM WATER POLLUTION PREVENTION MEASURES MUST BE INSPECTED AND LOGGED BY THE CONTRACTOR FOR INSPECTION. LOGGING SHALL BE WEEKLY AND AFTER RAIN STORMS.
- 12. UTILITY COMPANIES MUST COMPLY WITH ALL STORM WATER POLLUTION PREVENTION MEASURES AS DEFINED ON THE STORM WATER POLLUTION PREVENTION PLANS, DETAILS AND NOTES.
- 13. THE TOTAL AREA OF DISTURBANCE FOR THIS PROJECT IS 0.015 ACRES.
- 14. ALL EXISTING WATER COURSES WITHIN THE PROJECT LIMITS SHALL BE TEMPORARILY PROTECTED DURING LAND CLEARING AND GRADING OPERATIONS. SOILS WITHIN 50 FEET OF SAID WATER COURSES SHALL BE STABILIZED WITHIN 2 DAYS OF THE INITIAL CLEARING / GRADING OPERATION AS SHOWN ON PLANS.
- 15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SEDIMENTATION AND STORM
- 16. ALL STORM WATER POLLUTION PREVENTION PRACTICES WILL BE INSTALLED BEFORE ANY
- 17. THE FOLLOWING STORM WATER POLLUTION PREVENTION AND SEDIMENT CONTROL
- 18. THE CONTRACTOR SHALL PROVIDE A WASHOUT AREA FOR THE CONCRETE TRUCKS. THE AREA MUST BE AN EXCAVATED PIT LINED WITH PLASTIC. UPON COMPLETION OF WORK, THE WASTE CONCRETE, WATER, AND PLASTIC SHALL BE REMOVED AND THE EXCAVATION BACKFILLED, SEEDED, AND MULCHED.



PLAN VIEW

WYE CONNECTION

# ALL PAVEMENT MARKINGS TO BE WHITE PAVEMENT PAINT, UNLESS STATED ALL ADA SPACES TO USE 4" WIDE BLUE STRIPING PER LOCAL REQUIREMENTS. MARKING (STRIPING) PAINT FOR PARKING SPACES, TRAFFIC ARROWS, ADA PARKING AND SYMBOLS, ETC., PER ASTM-P-7B-66T STANDARDS AND AS NEW SURFACES: MATERIAL SHALL BE AS SPECIFIED IN ODOT ITEM 740.02,

KEYED NOTES

1 PAINT BACKGROUND BENJAMIN

MOORE M58 SAFETY & ZONE

(2) PAINT SYMBOL BENJAMIN MOORE

(3) BOTTOM EDGE OF SYMBOL BOX

SHALL MATCH END OF STALL

STRIPE AT DRIVE AISLE END OF

M58 SAFETY & ZONE MARKING

LATEX M58-01 - WHITE 4" WIDTH

MARKING LATEX M58-30 - BLUE

3'-0" BACKGROUND WIDTH

| 2'-0" SYMBOL WIDTH |

**Q PARKING STALL** 

- 4" WHITE STRIPE ON

CONCRETÉ

ASPHALT/ YELLOW ON

2'-0"

NOSE DOWN TO

FINISH GRADE -

TYPE 2

TYPICAL ELEVATION

ADA PAVEMENT SYMBOL

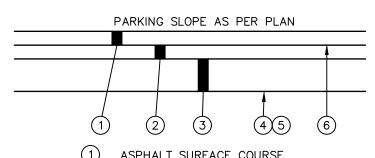
TRANSVERSE STRIPING

TYPE1. COLOR SHALL BE WHITE FOR PARKING SPACE LINES. EXISTING SURFACES WITHOUT ANY SEAL COATING: OIL BASE (ALKYD RESIN TYPE TO MEET FEDERAL SPECIFICATION TTP-85. NEW OR EXISTING SURFACES WITH A TOP COATING OR SEAL COATING (USUALLY WATER BASE): WATER BASE TYPE TO MEET FEDERAL SPECIFICATION

TTP-01952. PROVIDE A NON-SLIP AGGREGATE ADDITIVE TO MARKING PAINT USED AT ADA

APPLY 2 COATS WITH STRAIGHT EDGES, YELLOW ON CONCRETE/WHITE ON ASPHALT EXCEPT WHEN MATCHING ADJACENT OR EXISTING COLOR WHEN THE PAVING IS AN EXPANSION OR SEGMENT OF A LARGER LOT.

PAVEMENT MARKINGS & NOTES



ASPHALT SURFACE COURSE

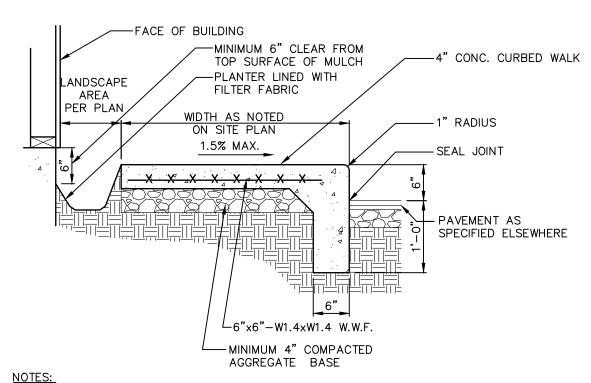
ASPHALT INTERMEDIATE COURSE AGGREGATE BASE

SUBGRADE COMPACTION PROOF ROLLING

(6) TACK COAT

- NOTES: 1. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT AND WHERE PROPOSED ASPHALT MEETS EXISTING ASPHALT INCLUDING SAW CUT JOINTS.
- 2. MATCH EXISTING IN TYPE AND DEPTH.
- 3. CONTRACTOR SHALL INSTALL PER STATE D.O.T. SPECIFICATIONS IN ACCORDANCE WITH MATERIALS APPROVED BY THE CM.

TYPICAL PAVEMENT SECTION N.T.S.

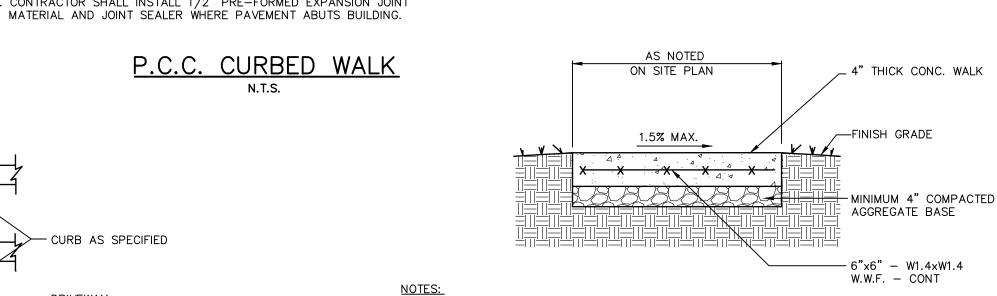


1. CONTRACTOR SHALL INSTALL 1/2" PRE-FORMED EXPANSION JOINT

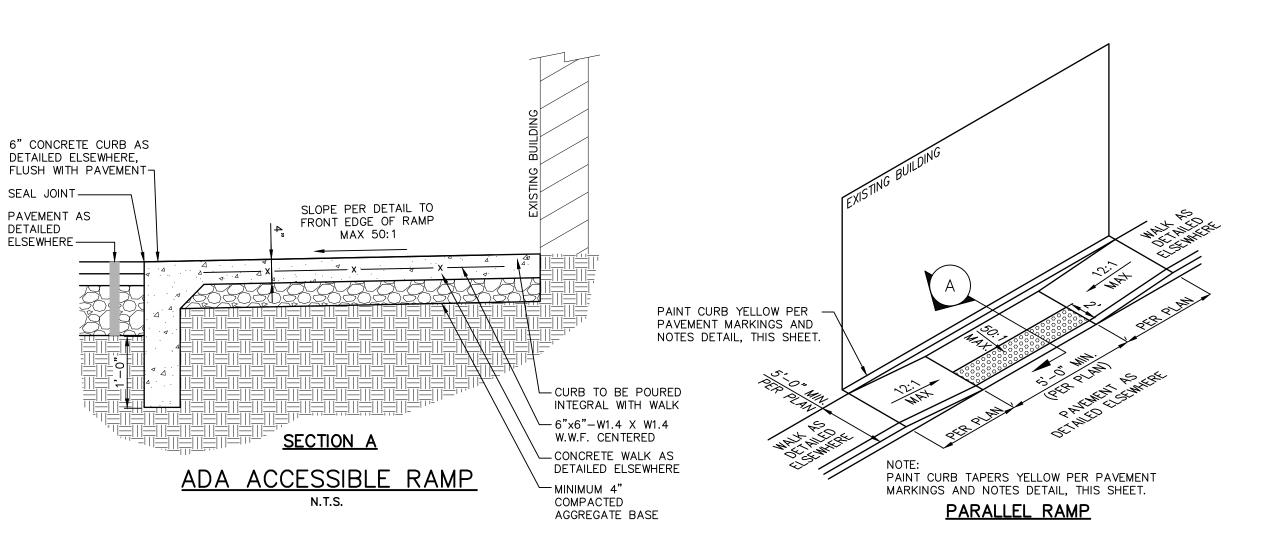
- CURB AS SPECIFIED

- DRIVEWAY

SURFACE



1. CONTRACTOR SHALL INSTALL 1/2" PRE-FORMED EXPANSION JOINT MATERIAL AND JOINT SEALER WHERE PAVEMENT ABUTS BUILDING. 2. INSTALL FLUSH WITH ADJOINING CONCRETE WALK.



**EXISTING** 

PROPERTY LINE CENTER LINE RIGHT-OF-WAY LINE EXISTING LIGHT POLE EXISTING STORM SEWER EXISTING SANITARY SEWER EXISTING WATER SERVICE EXISTING UNDERGROUND TELEPHONE EXISTING CURB \_\_\_\_\_\_

EXISTING BOLLARD

EXISTING PINE TREE

PROPOSED TRAFFIC SIGN

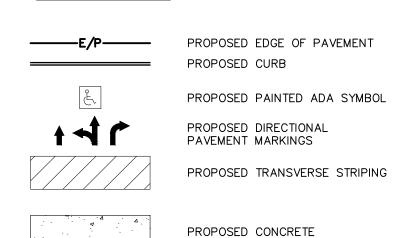
EXISTING SIGN

LEGEND

EXISTING BUSH EXISTING DECIDUOUS TREE

\_\_\_\_ EXISTING CONTOUR **■** BM # BENCHMARK LOCATION

PROPOSED



KOTECKI NUMBER PE-2011027853 Darrin Kotecki - Professional Enginee PE-2011027853 01/12/2017

> DRAWN BY: JDH CHECKED BY: 12/5/16

16-040

DOCUMEN DADHOUSE TION AT OP RD. E.

CONS )R THE BUILE 600 ME O'F/

 $\overline{\Box}$ 

PD JOB No. 2016131.08

12-27-16 PLANNING & ZONING COMMENTS The Construction Documents shall consist of a drawings, specifications, surveys, soils reports, addenda and other information as provided to the General Contractor, all acting as a whole. None of this information or drawing sheets shall be taken separately or "stand alone" from the remainder of the Construction Documents. All subcontractors shall be responsible to review the entire set of Construction Documents to determine their particular scope

work. Any discrepancies or conflicting information not brought to the attention of the Architect prior to submitting a bid shall be interpreted at the sole discretion of the Architect.



P+Z No. 28-16 Approval Date 10-7-16 City No.

Page No.