

# EXPLORA SCIENCE CENTER AND CHILDREN'S MUSEUM

CITY OF ALBUQUERQUE  
CAPITAL IMPLIMENTATION PROGRAM

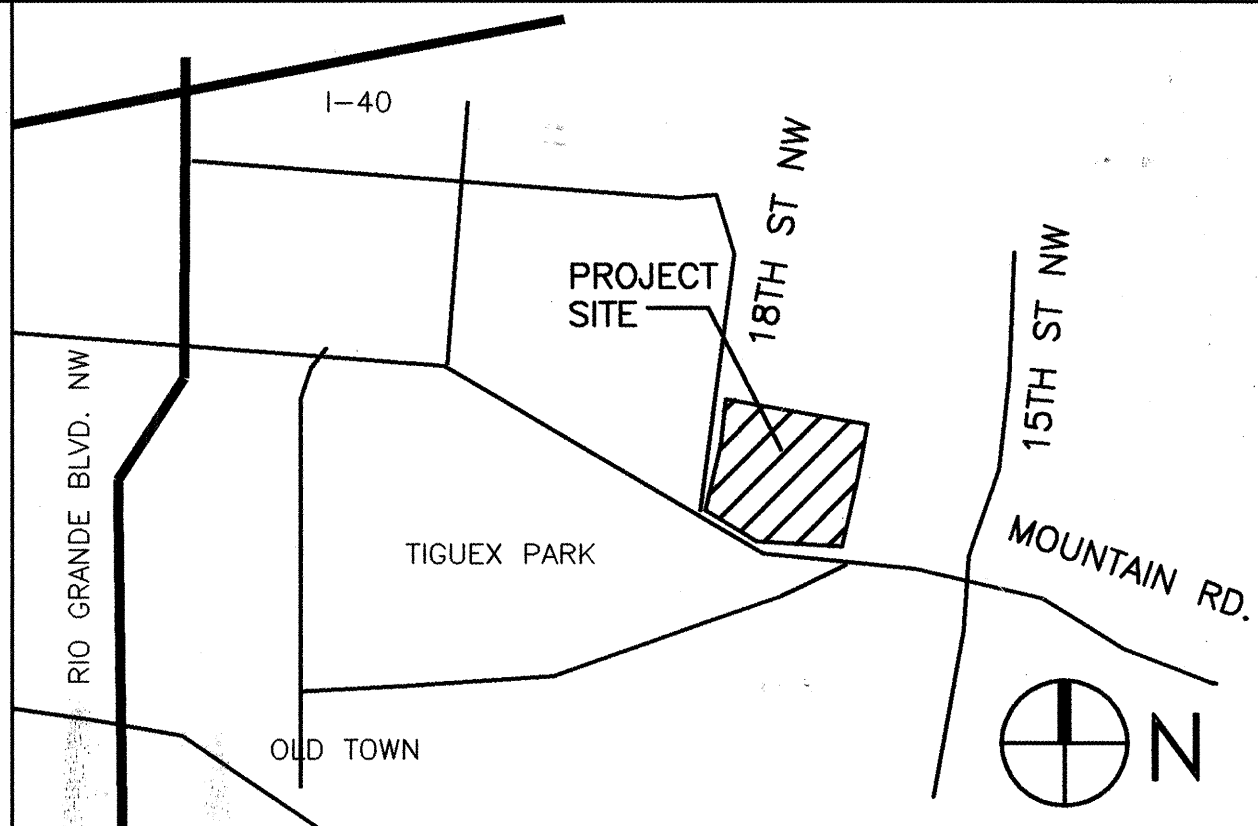
## SITE IMPROVEMENTS

### INDEX

SHEET	DESCRIPTION
1	TITLE SHEET
2	PLANTING PLANS
3	IRRIGATION PLANS
4	CONSTRUCTION DETAILS
T-1,T-2	SIGNING & CONSTRUCTION TRAFFIC CONTROL STANDARDS TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF MUTCD)

### CONSTRUCTION NOTES:

- WHEN ABUTTING NEW CURB AND GUTTER TO EXISTING PAVEMENT, A 1" WIDE SECTION OF EXISTING PAVEMENT ADJACENT TO THE CURB AND GUTTER SHALL BE SAWCUT, REMOVED, AND REPLACED AS PER THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
- ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
- A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CONSTRUCTION OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
- CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR.
- OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
- THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADING, TOPSOIL DISTURBANCE AND EXCAVATION PERMITS, ETC.)
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE AT HIS EXPENSE ANY AND ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
- ALL PERMANENT PAVEMENT MARKING AND TRAFFIC SIGNING SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR PER PLAN.
- THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
- ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
- ALL SAWCUT PAVEMENT SHALL HAVE A UNIFORM EDGE AND BE SPRAYED WITH TACK.



VICINITY MAP  
NOT TO SCALE  
J-13-Z

#### NOTICE TO CONTRACTORS

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THROUGH UPDATE No.6
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS. ANY PERMANENT SURVEY MONUMENT LOCATED WITHIN 50' OF THE PROJECT LIMITS NOT SHOWN ON THE PLANS THAT IS DESTROYED DURING CONSTRUCTION WILL BE REPLACED AT DESIGNER'S EXPENSE.
- CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING IN THE VICINITY OF EXISTING CITY FACILITIES. ANY DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED IN KIND, AS DETERMINED BY THE OWNER'S REPRESENTATIVE. REPLACEMENTS SHALL BE AT THE CONTRACTOR'S EXPENSE, AS PER C.O.A. SPECS.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

#### THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☐ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☐ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- ☐ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHERE A NEW CURB RETURN IS CONSTRUCTED.
- ☐ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☐ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☒ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.



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PLANNING  
LANDSCAPE ARCHITECTURE  
MARKET ANALYSIS

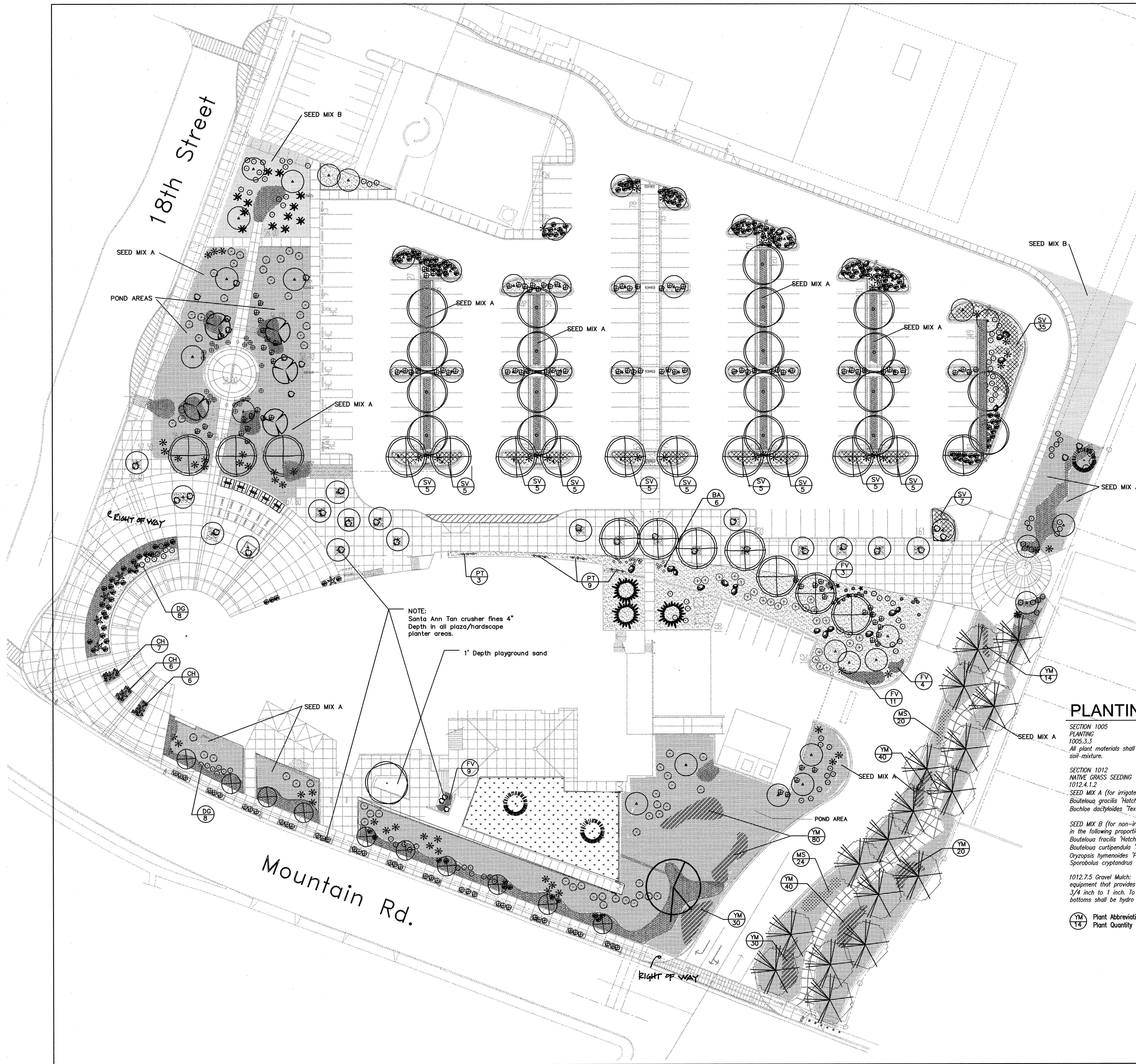
MAHLMAN &  
MILES  
ARCHITECTS

FOR INFORMATION ONLY



REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	APPROVED FOR CONSTRUCTION		
		DRC Chairman	<i>[Signature]</i>	9-26-00	<i>[Signature]</i> 9/26/00 City Engineer Date		
		Transportation	<i>[Signature]</i>	9-26-00			
		Water/Wastewater	<i>[Signature]</i>	9-26-00			
		Hydrology	<i>[Signature]</i>	9-26-00			
		Parks	<i>[Signature]</i>	9-26-00			
		Const. Mngmt.	<i>[Signature]</i>	9-26-00			
		CITY PROJECT NO.			SHEET OF		
		6497-91			1 4		





# PLANTING LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	NOTES
	Populus frimontii	COTTONWOOD	1	3" cal.	STAKE AS PER DETAIL F/3
	Prunus mume 'Peggy Clarke'	FLOWERING APRICOT	17	30 gal.	
	Quercus fusiformis	ESCARPMENT LIVE OAK	21	24 Box	MULTI-TRUNK
	Gleditsia triacanthos 'Trueshade'	TRUE SHADE HONEY LOCUST	1	3" cal.	
	Pistacia chinensis	CHINESE PISTACHE	19	2 1/2 " cal.	
	Pinus stroiformis	SOUTH WEST WHITE PINE	3	8' High	STAKE AS PER DETAIL F/3
	Quercus emoryi	EMORY OAK	3	15 gal.	
	Quercus emoryi	EASTERN RED BUD	10	8-10' ht.	MULTI-TRUNK B&B (MALE ONLY)
	Forestiera neomexicana	NEW MEXICO OLIVE	5	15 gal.	
	Chilopsis linearis	DESERT WILLOW	62	24 Box	
	Baccharis Hybrid 'Starn'	THOMPSON BROOM	12	5 gal.	
	Hesperaloe parviflora	RED YUCCA	67	5 gal.	
	Rosmarinus off. 'Prostrata'	TRAILING ROSEMARY (TR)	171	5 gal.	
	Artemisia tridentata	BIG SAGEBRUSH	26	5 gal.	
	Fallugia paradoxa	APACHE PLUME	61	5 gal.	
	Parthenium incanum	MARIOLA	21	1 gal.	
	Ericameria laricifolia	TURPENTINE BUSH	106	5 gal.	
	Hesperaloe funifera	GIANT HESPERALOE	9	15 gal.	
	Nolina texana	BEARGRASS	37	5 gal.	
	Muhlenbergia capillaris	REGAL MIST GRASS	146	5 gal.	
	Agave neomexicana	NEW MEXICO AGAVE	4	Collected	
	Festuca avena glauca	BLUE AVENA (BA)	20	1 gal.	
	Sphaeralcea ambigua	DESERT GLOBEMALLOW (DG)	15	1 gal.	
	Calylophus hartwegii	SUNDROPS (CH)	19	1 gal.	
	Parthenocissus inserta	WOODBINE	12	1 gal.	VINE

	Helianthus maximiliani	MAXIMILIAN SUNFLOWER (MS)	44	1 gal.
	Anemopsis californica	YERBA DE MANZA (YM)	271	1 gal.
	Verbena rigida	SANDPAPER VERBENA (SV)	92	1 gal.
	Verbena bipinatifida	PRAIRIE VERBENA (FV)	27	1 gal.

	Non-irrigated Native Grass- Seed Mix B (See Planting Notes)		5,100
	Irrigated Native Grass- Seed Mix A (See Planting Notes)		39,363
	Buffalo grass		4,047

	Santa Ana Tan Crusher Fines 4" Depth	16,617
	Swales: Sedillo Quarry 5"-12" Crushed Rock 12" Depth (Grade -6" to -8")	6,349
	Existing Boulders (to be relocated from The New Mexico Museum of Natural History & Science)	21

## PLANTING NOTES

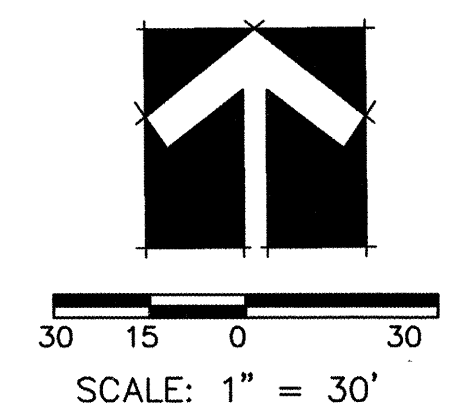
SECTION 1005  
PLANTING  
1005.3.3  
All plant materials shall be backfilled with 90% native soil and 10% C.O.A. planting soil mixture.

SECTION 1012  
NATIVE GRASS SEEDING  
1012.4.1.2  
SEED MIX A (for irrigated areas):  
Bouteloua gracilis 'Hatchita' - Hatchita Blue Grama 1#PLS/1000 SF  
Bouteloua dactyloides 'Texoka' - Buffalo grass 4#PLS/1000 SF  
SEED MIX B (for non-irrigated areas): Total area to be seeded at 1#PLS/1000 SF in the following proportions:  
Bouteloua gracilis 'Hatchita' - Hatchita Blue Grama 15%  
Bouteloua curtipendula 'Niner' - Niner Sideoats Grama 35%  
Oryzopsis hymenoides 'Paloma' - Paloma Indian Ricegrass 45%  
Sporobolus cryptandrus - Sand Dropseed 5%

1012.7.5 Gravel Mulch: Gravel mulch shall be placed by hand or by mechanical equipment that provides full coverage at a uniform thickness of a single layer of 3/4 inch to 1 inch. To be applied in all seeded areas except pond bottoms. Pond bottoms shall be hydro mulched as per specifications.

Plant Abbreviation  
Plant Quantity

FOR INFORMATION ONLY

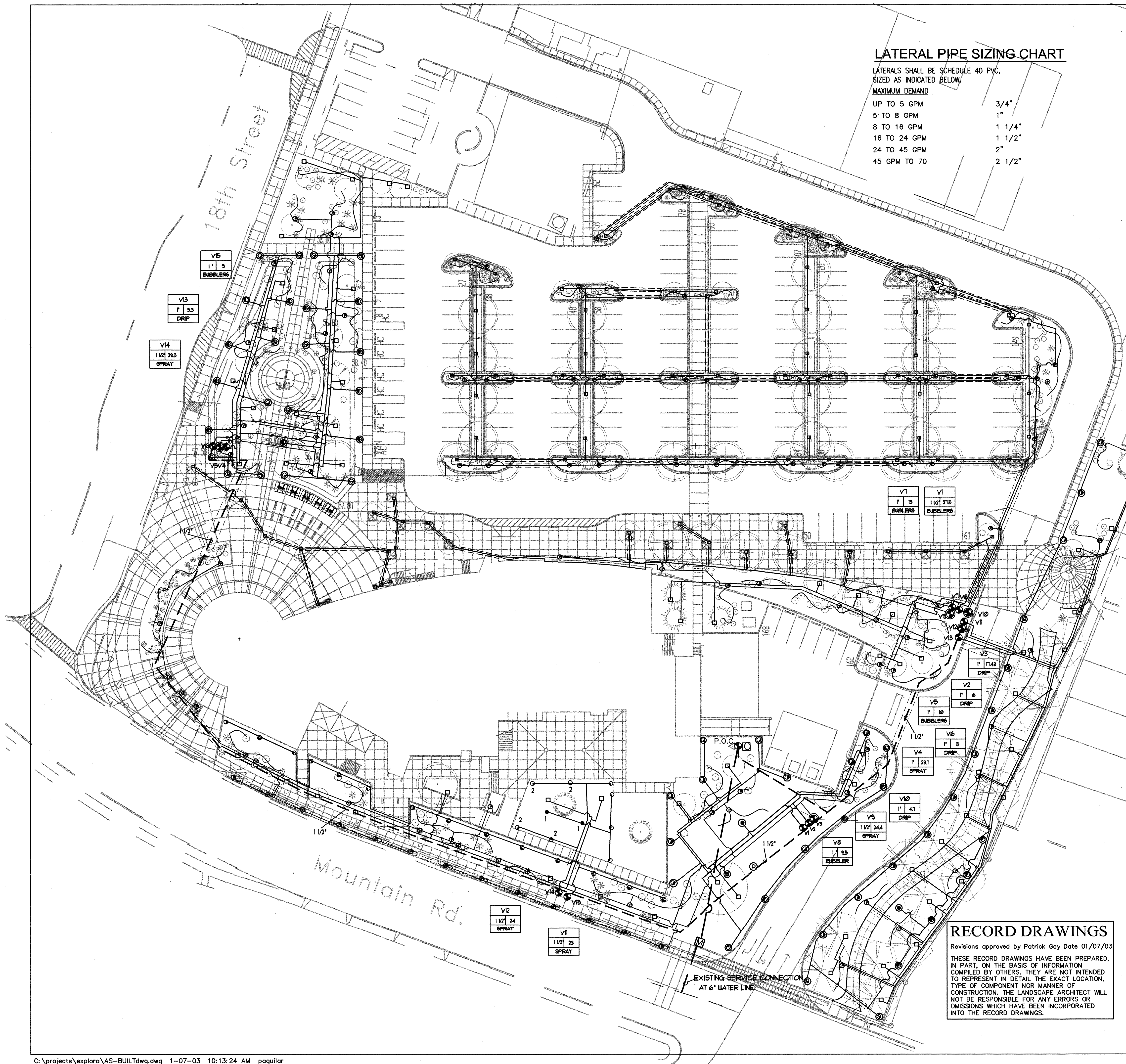


MAHLMAN &  
MILES  
ARCHITECTS



CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROJECT	
EXPLORA SCIENCE CENTER AND CHILDREN'S MUSEUM PLANTING PLANS	
Design Review Committee APPROVED SEP 26 2000	City Engineer Approval APPROVED SEP 26 2000 CITY ENGINEER
City Project No. 6497-91	Zone Map No. J-13-Z
Sheet 2	Of 4





### LATERAL PIPE SIZING CHART

LATERALS SHALL BE SCHEDULE 40 PVC, SIZED AS INDICATED BELOW.

MAXIMUM DEMAND	SIZE
UP TO 5 GPM	3/4"
5 TO 8 GPM	1"
8 TO 16 GPM	1 1/4"
16 TO 24 GPM	1 1/2"
24 TO 45 GPM	2"
45 GPM TO 70	2 1/2"

### IRRIGATION LEGEND

- ALL IRRIGATION EQUIPMENT SHALL BE INSTALLED AS PER CITY OF ALBUQUERQUE STANDARD DRAWING INDICATED OR AS PER THE DETAILS, SEE SHEET 3.
- RAIN BIRD 16 STATION OUTDOOR CONTROLLER. LANDSCAPE CONTRACTOR TO CONNECT TO EXISTING POWER SOURCE. SEE ELECTRICAL PLANS.
  - EXISTING 1 1/2" WATER METER.
  - 2" RAINBIRD PEB MASTER VALVE AND 1 1/2" MULTI-JET MASTER METER (FLOWMETER) WITH ELECTRICAL OUTPUT REGISTER WIRED TO CONTROLLER.
  - P.O.C. WILL BE LOCATED AT EXISTING BACKFLOW PREVENTER. SEE PLUMBING PLANS.
  - EXISTING BACKFLOW PREVENTER. SEE PLUMBING PLANS.
  - RAINBIRD PEB-PRS AUTOMATIC CONTROL VALVE ASSEMBLY WITH PRESSURE REGULATOR. SEE PLAN FOR SIZE. INSTALL AS PER C.O.A. STD. DETAIL 2703.
  - RAINBIRD PEB-PRS CONTROL VALVE (SIZE AS PER PLAN) WITH NETAfim DISK FILTER: 1" SHORT TECHFILTER TF10912-200. INSTALL AS PER DETAIL A/3.
  - BUBBLER- RAINBIRD 1402 PRESSURE COMPENSATING .50 GPM. INSTALL AS PER C.O.A. DETAIL 2710.
  - P.V.C. TO POLY PIPE CONNECTION AND PRESSURE REDUCER. INSTALL AS PER DETAIL E/3.
  - RAINBIRD DBK 08 EMITTER (2 GPH) PRESSURE COMPENSATION. EMITTER ON RAINBIRD 1/2" POLY TUBING. INSTALL 2 EMITTERS PER SHRUB OR VINE, TYP. INSTALL 1 EMITTER PER EACH PERENNIAL. INSTALL AS PER DETAIL B/3.
  - MAINLINE PIPING- SCH. 40 PVC (SIZE PER PLAN).
  - LATERAL PIPING- SCH. 40 PVC. SIZE AS PER PLANS.
  - EXISTING SLEEVE PIPE- SCH. 40 PVC- SIZE SLEEVE TWO SIZES LARGER THAN PIPE TO BE SLEEVED. COORDINATE WITH CIVIL PLANS.
  - MANUAL DRAIN- CHAMPION 100RS-100, SEE DETAIL D/3.

### VALVE LEGEND

VALVE NUMBER	AA2
VALVE SIZE	1" 8.0
HEAD TYPE	SPRAY

VALVE (GPM) DEMAND

### RECLAMATION SEEDING AREA

INSTALL SPRINKLERS AS PER C.O.A. DETAIL 2709

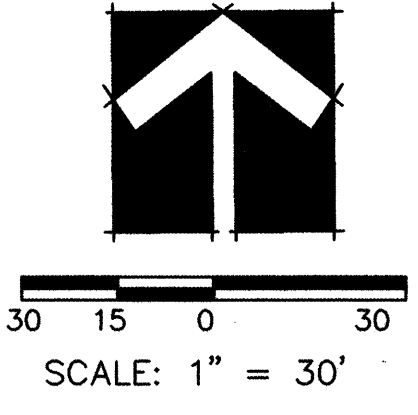
- HUNTER PGP-ADV-02 ROTOR SPRAY HEAD 0.9 GPM
- HUNTER PGP-ADV-04 ROTOR SPRAY HEAD 1.6 GPM
- HUNTER PGP-360-04 ROTOR SPRAY HEAD 1.6 GPM
- 1. HUNTER PGM--1.0 ROTOR SPRAY HEAD 1.0 GPM
- 2. HUNTER PGM-2.0 ROTOR SPRAY HEAD 2.0 GPM

### NOTES

WITH THE EXCEPTION OF BUFFALO GRASS SOD AREA, SPRAY IRRIGATION IS FOR ESTABLISHMENT OF NATIVE GRASS ONLY. UPON GERMINATION AND GROWTH TO 4" HEIGHTS, SPRAY IRRIGATION SHOULD BE UTILIZED FOR SUPPLEMENTAL WATERING DURING DROUGHT CONDITIONS AS DETERMINED BY C.O.A. EXPLORA MANAGEMENT. (SEE SHEET L-3)

FOR INFORMATION ONLY

AS-BUILT  
10-18-02



### RECORD DRAWINGS

Revisions approved by Patrick Gay Date 01/07/03

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE LANDSCAPE ARCHITECT WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

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ARCHITECTS

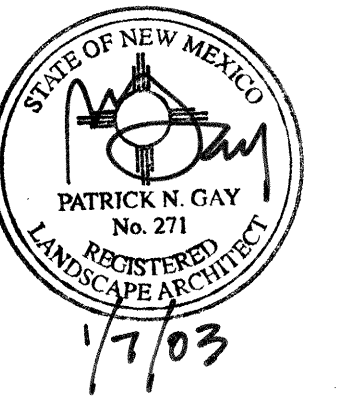


CITY OF ALBUQUERQUE  
CAPITAL IMPLEMENTATION PROJECT

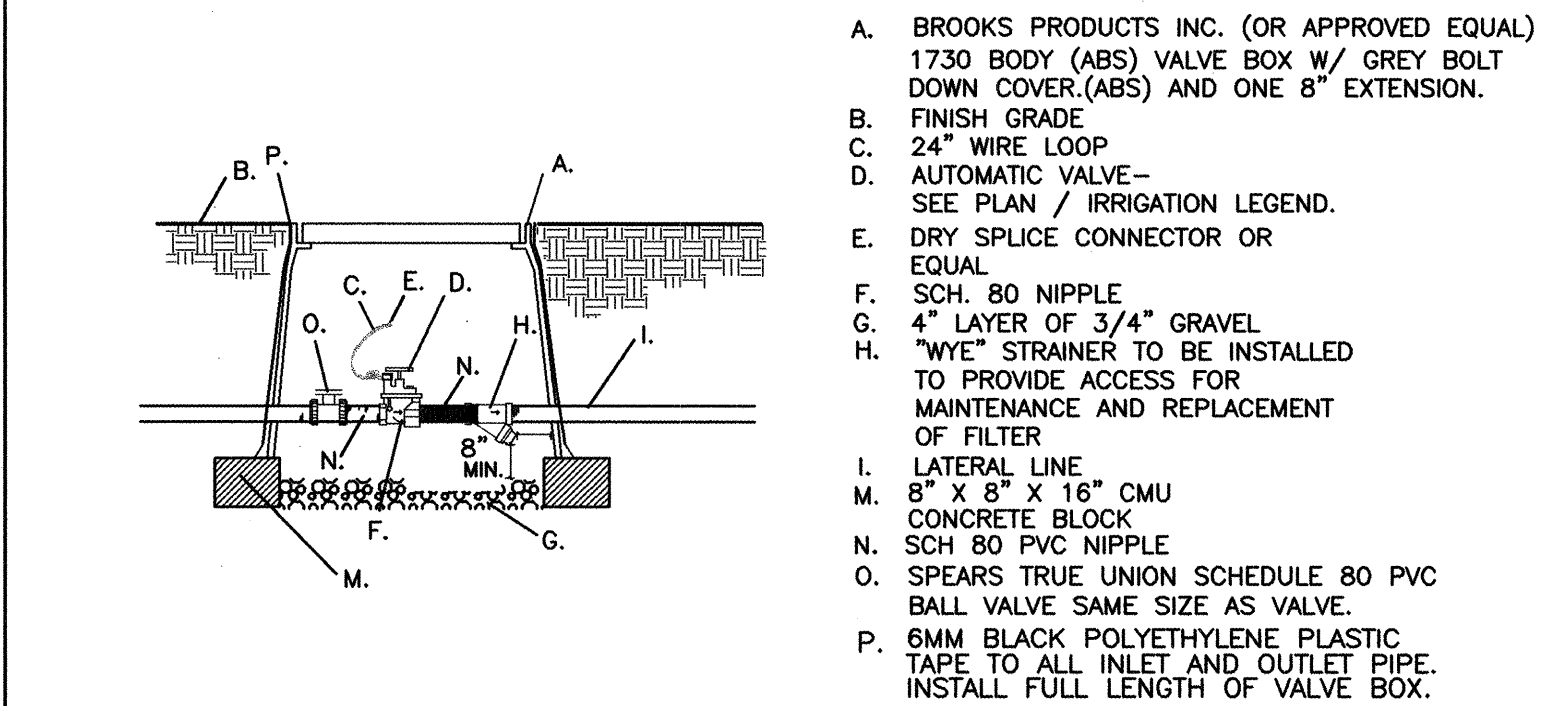
### EXPLORA SCIENCE CENTER AND CHILDREN'S MUSEUM IRRIGATION PLAN

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of
6497-91	J-13-Z	3	4

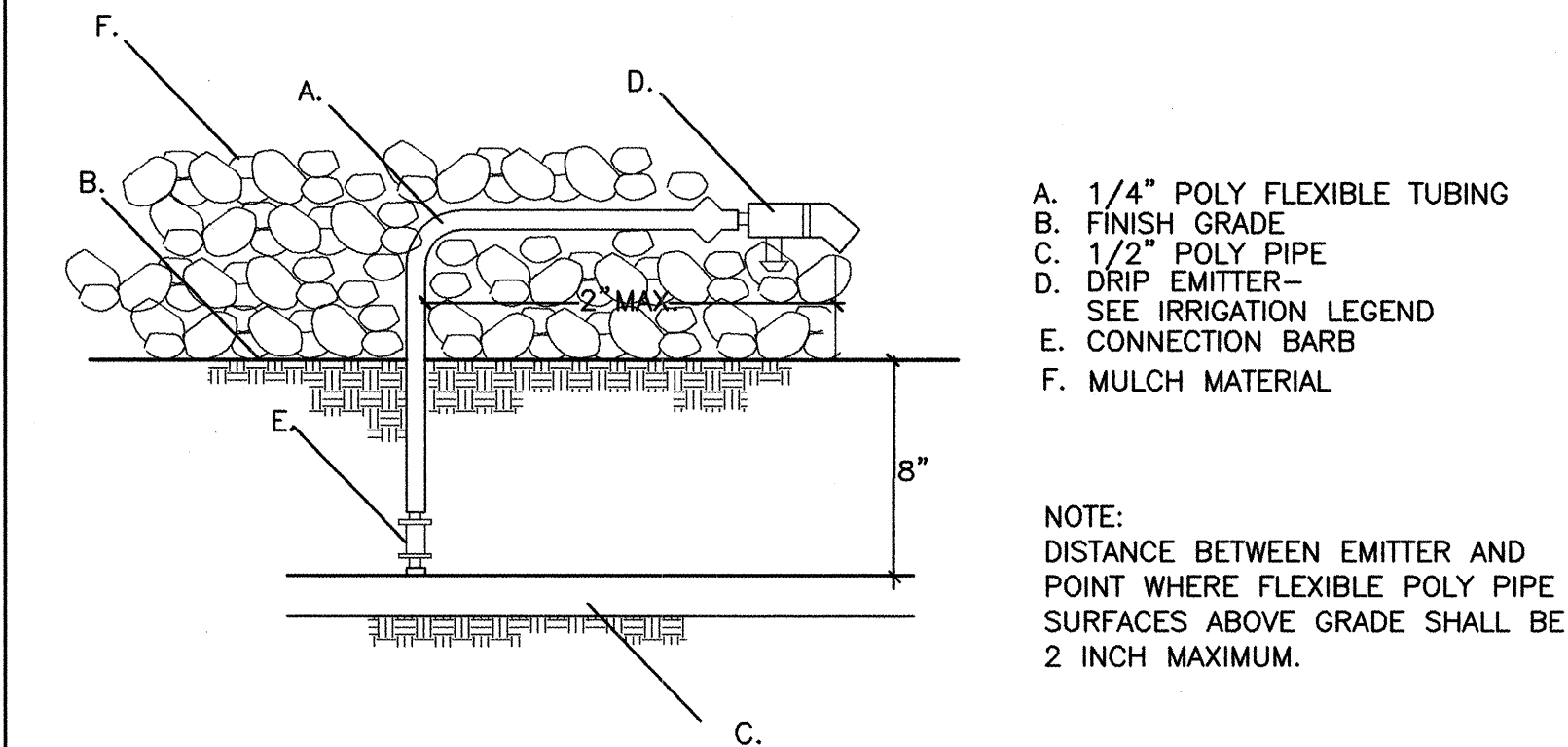
AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		FIELD NOTES		LANDSCAPE ARCHITECT'S SEAL	
CONTRACTOR	LEE LANDSCAPES	DATE	10/18/02	NO.		BY	DATE	NO.	
DESIGNED BY	PG	DATE	9/15/00	REVISIONS		BY	DATE	REVISIONS	
DRAWN BY	JGAW	DATE	9/15/00	DESIGN		BY	DATE	DESIGN	
CHECKED BY	PG	DATE	9/15/00						



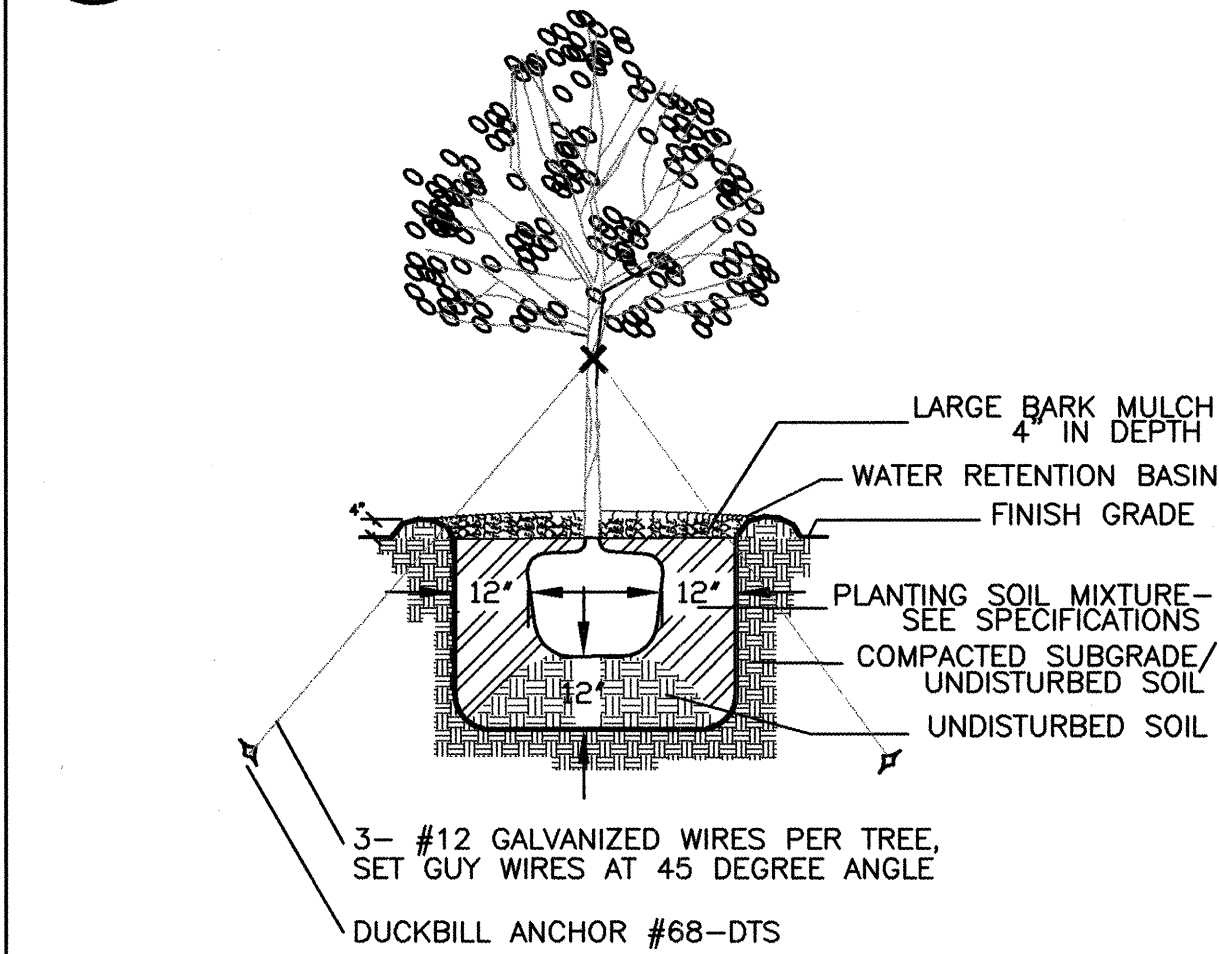




**A** DRIP VALVE/FILTER ASSEMBLY  
NOT TO SCALE



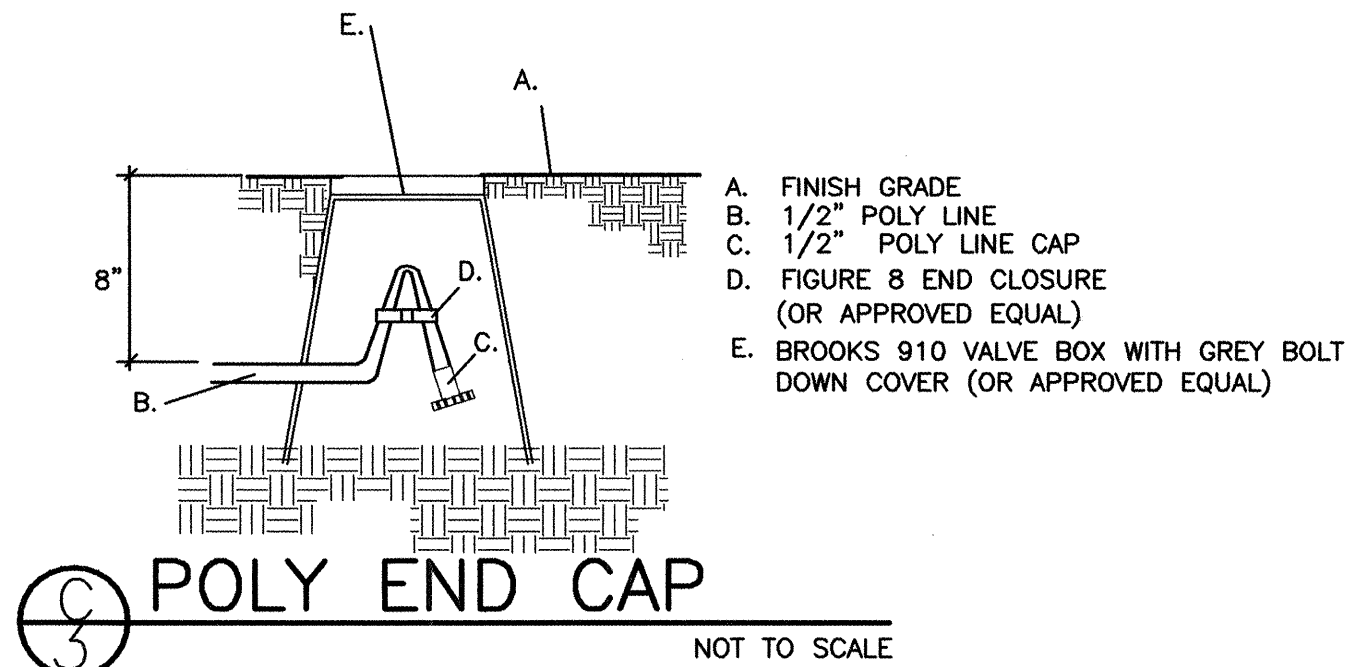
**B** DISTRIBUTION TUBING/EMITTER CONNECTION  
NOT TO SCALE



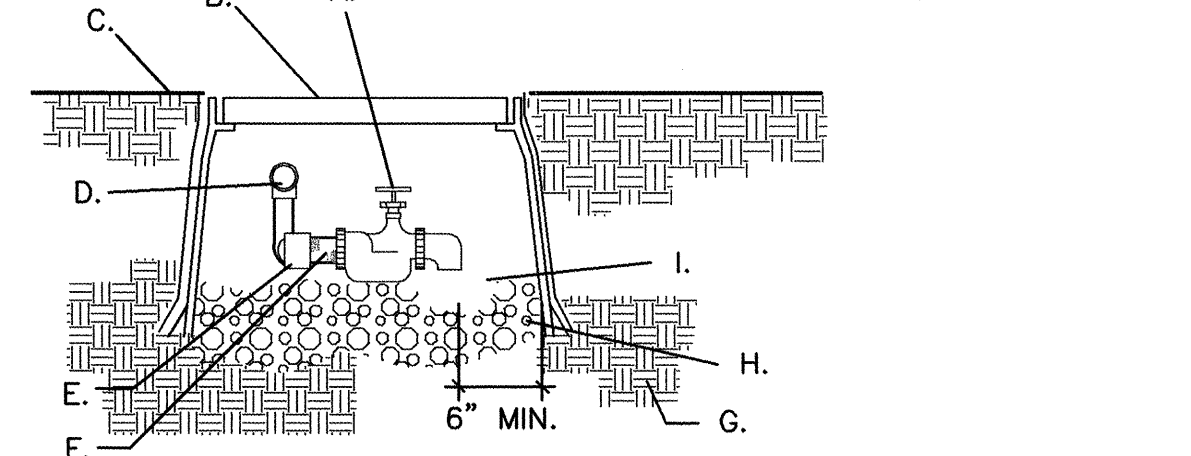
**C** TREE PLANTING WITH STAKE  
NOT TO SCALE

### PLANTING NOTES

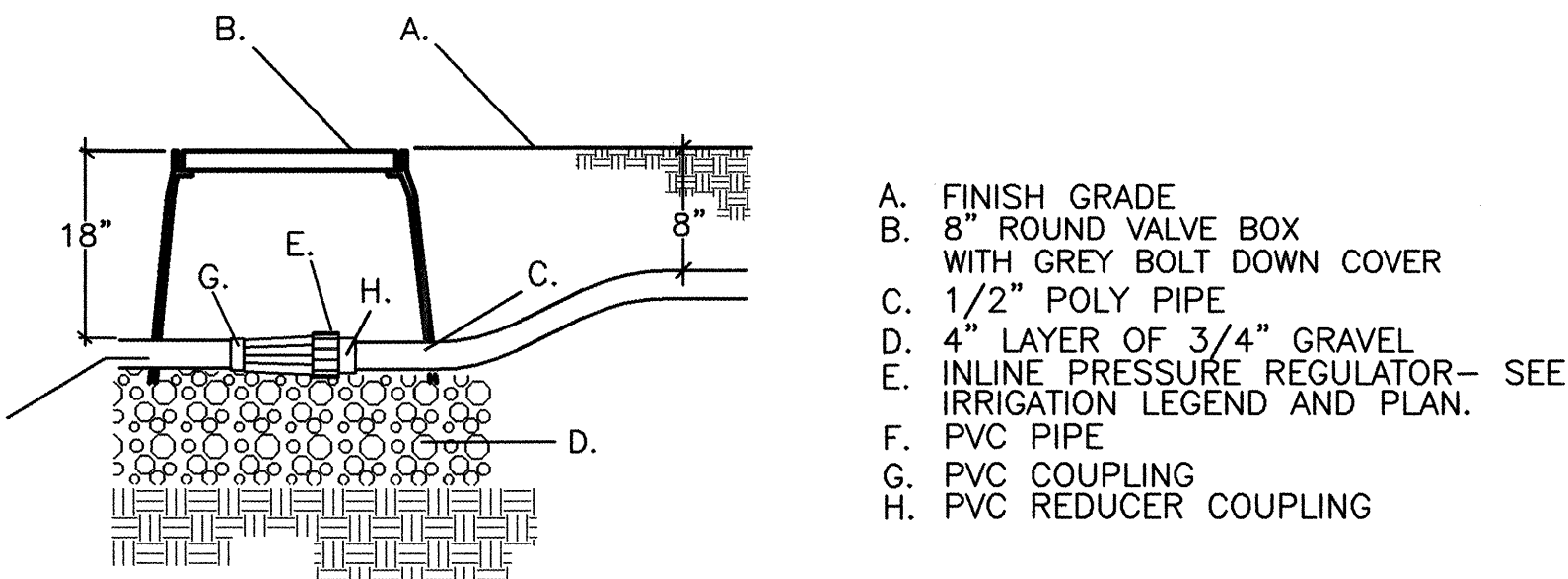
1. PLANT MATERIAL SUBSTITUTIONS SHALL NOT BE MADE WITHOUT THE WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.
2. PLANT MATERIAL QUALITY, SIZE AND CONDITION SHALL BE IN ACCORDANCE WITH AMERICAN STANDARD FOR NURSERY STOCK, 1990 EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
3. ALL PLANTS SHALL BY TYPICAL OF THEIR SPECIES OR VARIETY. ALL PLANTS SHALL HAVE NORMAL, WELL DEVELOPED BRANCHES AND VIGOROUS ROOT SYSTEMS. THEY SHALL BE SOUND, HEALTHY, VIGOROUS, FREE FROM DEFECTS, DISFIGURING KNOTS, ABRASIONS OF THE BARK, SUNSCALD INJURIES, PLANT DISEASES, INSECT EGGS, BORES AND ALL OTHER FORMS OF INFECTIONS.
4. UNLESS OTHERWISE STATED ON THE DRAWINGS OR APPROVED BY OWNER'S REPRESENTATIVE, ALL PLANTS SHALL BE NURSERY GROWN AND SHALL BE TAGGED WITH NURSERY LABELS INDICATING SPECIES AND VARIETY.



**D** POLY END CAP  
NOT TO SCALE



**E** MANUAL DRAIN  
NOT TO SCALE



**F** INLINE PRESSURE REGULATOR  
NOT TO SCALE

5. BALLED AND BURLAPPED PLANT MATERIAL SHALL HAVE A SOLID BALL OF EARTH OF MINIMUM SPECIFIED SIZE AND HELD IN PLACE SECURELY BY BURLAP AND A STOUT TWINE OR ROPE. BROKEN OR LOOSE BALLS WILL BE REJECTED.
6. THE OWNER'S REPRESENTATIVE SHALL INSPECT ALL PLANT MATERIAL AT THE CONTRACTOR'S YARD PRIOR TO DELIVERY, DURING PLANTING AND AFTER PLANTING AT THE JOB SITE. AT THE OPTION OF THE CONTRACTOR, THE OWNER'S REPRESENTATIVE WILL INSPECT PLANT MATERIAL AT A WHOLESALE NURSERY OF THE CONTRACTOR'S CHOICE PRIOR TO DELIVERY OF MATERIALS TO THE CONTRACTOR'S YARD.
7. THE OWNER'S REPRESENTATIVE SHALL BE THE JUDGE OF THE QUALITY AND ACCEPTABILITY OF ALL PLANT MATERIALS. ALL REJECTED MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND REPLACED WITH ACCEPTABLE MATERIAL AT NO ADDITIONAL COST TO OWNER.
8. ALL COLLECTED PLANTS MUST BE PRESENTED ON THE SITE AND SHALL BE IN ACCORDANCE WITH THE NEW MEXICO DEPARTMENT OF AGRICULTURE PLANT PROTECTION ACT, REGULATORY ORDER NO. 4. AND AMERICAN STANDARDS FOR NURSERY STOCK (1990 EDITION).
9. ALL PLANT MATERIALS SHALL BE WARRANTED AS PER CURRENT CITY OF ALBUQUERQUE SPECIFICATIONS.

### VALVE LEGEND

VALVE NO.	SIZE	DESCRIPTION	MAX. DEMAND	RUN TIME FOR 1/2" PRECIPITATION	COMMENTS
V1	1"	BUBBLER	9.5	—	
V2	1 1/2"	SPRAY	24.4	75 MIN	NATIVE GRASS
V3	1"	DRIP	4.7	—	
V4	1"	SPRAY	29.3	75 MIN	NATIVE GRASS
V5	1"	DRIP	5.3	—	
V6	1"	BUBBLER	9	—	
V7	1"	BUBBLER	15	—	
V8	1 1/2"	BUBBLER	27.5	—	
V9	1"	DRIP	17.43	—	
V10	1"	DRIP	6	—	
V11	1"	BUBBLER	10	—	
V12	1"	DRIP	5	—	
V13	1"	SPRAY	18.9	75 MIN	NATIVE GRASS
V14	1"	SPRAY	24	67 MIN	BUFFALO GRASS
V15	1 1/2"	SPRAY	23	75 MIN	NATIVE GRASS

### IRRIGATION NOTES

THE IRRIGATION SYSTEM IS DESIGNED FOR AN APPROXIMATE OPERATING PRESSURE OF 40-50 PSI AT THE HEAD. CONTRACTOR SHALL FIELD VERIFY PRESSURE PRIOR TO INITIATION OF CONSTRUCTION. THIS INFORMATION SHALL BE PROVIDED TO THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO PROCEEDING. IF STATIC PRESSURE IS GREATER THAN 100 PSI, A MAINLINE PRESSURE REDUCING VALVE MAY BE REQUIRED AS NOTED BELOW IN THE IRRIGATION LEGEND.

COMPLY WITH REQUIREMENTS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, THE UNIFORM PLUMBING CODE, AND ANY OTHER GOVERNMENTAL BODIES HAVING JURISDICTION.

WHERE TREES, LIGHT STANDARDS, ETC. ARE AN OBSTRUCTION OF PIPING AND DRIP EMITTERS, THEY SHALL BE ADJUSTED AND/OR RELOCATED AS NECESSARY TO OBTAIN FULL COVERAGE WITHOUT EXCESSIVE OVERFLOW.

PLANS ARE DIAGRAMMATIC AND APPROXIMATE DUE TO SCALE OF DRAWINGS. ALL VALVES SHALL BE LOCATED IN PLANTING AREAS WHERE SHOWN AND ALL PIPING SHALL BE INSTALLED PRIOR TO LANDSCAPING OR PAVING WORK. NO TEES, ELLS OR OTHER TURNS IN PIPING SHALL BE LOCATED UNDER PAVING. CAP ALL ENDS HAND TIGHT, PRIOR TO BACKFILL.

COORDINATE INSTALLATION OF POWER SOURCE FOR CONTROLLER W/GENERAL CONTRACT OR AS PER ELECTRICAL PLANS.

WORK UNDER THIS SECTION CONSISTS OF INSTALLING A COMPLETE UNDERGROUND IRRIGATION SYSTEM AS SHOWN ON THESE PLANS, DETAILS AND SPECIFICATIONS. THE CONTRACTOR PERFORMING THIS WORK SHALL FURNISH ALL LABOR, EQUIPMENT, MATERIALS AND PERMITS NECESSARY FOR THE COMPLETION OF THE IRRIGATION SYSTEM, EXCEPT FOR THOSE COMPONENTS SPECIFIED TO BE FURNISHED BY OTHERS.

EXISTING UTILITY LINES ARE TO BE BLUE STAKED PRIOR TO EXCAVATION FOR IRRIGATION LINES AND EQUIPMENT. CHECK AND FIELD VERIFY ALL SITE CONDITIONS, UTILITIES AND SERVICES PRIOR TO TRENCHING. CALL N.M. ONE CALL AT 260-1990 FOR BLUE STAKING.

ALL PLANT MATERIALS SHALL BE IRRIGATED WITH AUTOMATIC IRRIGATION SYSTEMS AS PER PLANS, DETAILS AND SPECIFICATIONS UNLESS OTHERWISE INDICATED ON THE DRAWING.

WHERE TREES, LIGHT STANDARDS, ETC. ARE AN OBSTRUCTION OF PIPING AND DRIP EMITTERS, THEY SHALL BE ADJUSTED AND/OR RELOCATED AS NECESSARY TO OBTAIN FULL COVERAGE WITHOUT EXCESSIVE OVERFLOW.

CONTRACTOR SHALL FLUSH ALL LINES PRIOR TO INSTALLING HEADS AND EMITTERS.

PLANS ARE DIAGRAMMATIC AND APPROXIMATE DUE TO SCALE OF DRAWINGS. ALL VALVES SHALL BE LOCATED IN PLANTING AREAS OR SODDED AREAS WHERE SHOWN AND ALL PIPING SHALL BE INSTALLED PRIOR TO LANDSCAPING OR PAVING WORK. NO TEES, ELLS OR OTHER TURNS IN PIPING SHALL BE LOCATED UNDER PAVING. CAP ALL ENDS HAND TIGHT, PRIOR TO BACKFILL.

COMPLY WITH REQUIREMENTS OF THE UNIFORM PLUMBING CODE AND ANY OTHER GOVERNMENTAL BODIES HAVING JURISDICTION.

REFER TO IRRIGATION DETAILS, SPECIFICATIONS AND MANUFACTURERS RECOMMENDATIONS FOR ALL INSTALLATION PROCEDURES NOT FULLY DESCRIBED ON THE IRRIGATION PLANS.

ALL BACKFILLING SHALL BE CLEAN MATERIAL FROM EXCAVATION. BACKFILLED TRENCH IS TO BE EVEN WITH EXISTING GRADES AFTER COMPACTION. TRENCH BACKFILL MATERIAL SHALL BE COMPACTED AS PER SPECIFICATIONS.

ALL VALVES TO BE IN APPROVED VALVE BOXES. LOCATE VALVE BOXES IN GROUPS OF TWO OR THREE AND NEAR WALKWAYS WHEREVER POSSIBLE.

COORDINATE CONTROLLER PROGRAMS BY ZONE TO AVOID STATION TIME OVERLAP. TIME SCHEDULES BY ZONE SHOULD BE SUBMITTED TO PROJECT MANAGER AT THE FINAL ACCEPTANCE OF CONSTRUCTION.

ALL COMPONENTS INSTALLED AS THE UNDERGROUND IRRIGATION SYSTEM ARE TO BE NEW AND IN GOOD WORKING ORDER AND WITHOUT FLAWS UNLESS OTHERWISE INDICATED ON THE PLANS, DETAILS AND SPECIFICATIONS.

IF THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS DO NOT THOROUGHLY DESCRIBE THE METHOD OR TECHNIQUES TO BE USED FOR INSTALLATION, THEN THE CONTRACTOR SHALL FOLLOW THE INSTALLATION METHODS RECOMMENDED BY THE MANUFACTURER.

ALL PLANT MATERIALS INSTALLED SHALL HAVE THE AUTOMATIC IRRIGATION SYSTEM FULLY OPERABLE AT THE TIME OF PLANT INSTALLATION. THE CONTRACTOR SHALL FURNISH A CERTIFICATE OF WARRANTY AND A GUARANTEE OF WORK AND MATERIALS FOR A ONE YEAR PERIOD FROM DATE OF FINAL ACCEPTANCE. FINAL PAYMENT FOR THE SYSTEM SHALL NOT BE MADE UNLESS THIS CERTIFICATE IS PRESENTED TO THE OWNER.

THE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN SATISFACTORY WORKING ORDER DURING THE TIME OF CONTRACT WORK.

THE CONTRACTOR SHALL BE LIABLE FOR ANY LOSS OR DAMAGE TO ANY WORK OR MATERIALS, SUPPLIES AND EQUIPMENT ON THE JOB SITE CAUSED BY THE CONTRACTOR, ITS EMPLOYEES OR ANY OTHER UNFORESEEN CAUSE UNTIL FINAL ACCEPTANCE OF PROJECT WITH THE OWNER'S REPRESENTATIVE.

### NOTES

WITH THE EXCEPTION OF BUFFALO GRASS SOD AREA SPRAY IRRIGATION IS FOR ESTABLISHMENT OF NATIVE GRASS ONLY. UPON GERMINATION AND GROWTH TO 4" HEIGHTS, SPRAY IRRIGATION SHOULD BE UTILIZED FOR SUPPLEMENTAL WATERING DURING DROUGHT CONDITIONS AS DETERMINED BY C.O.A. PARKS MANAGEMENT.

MAHLMAN &  
MILES  
ARCHITECTS

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sites  
southwest

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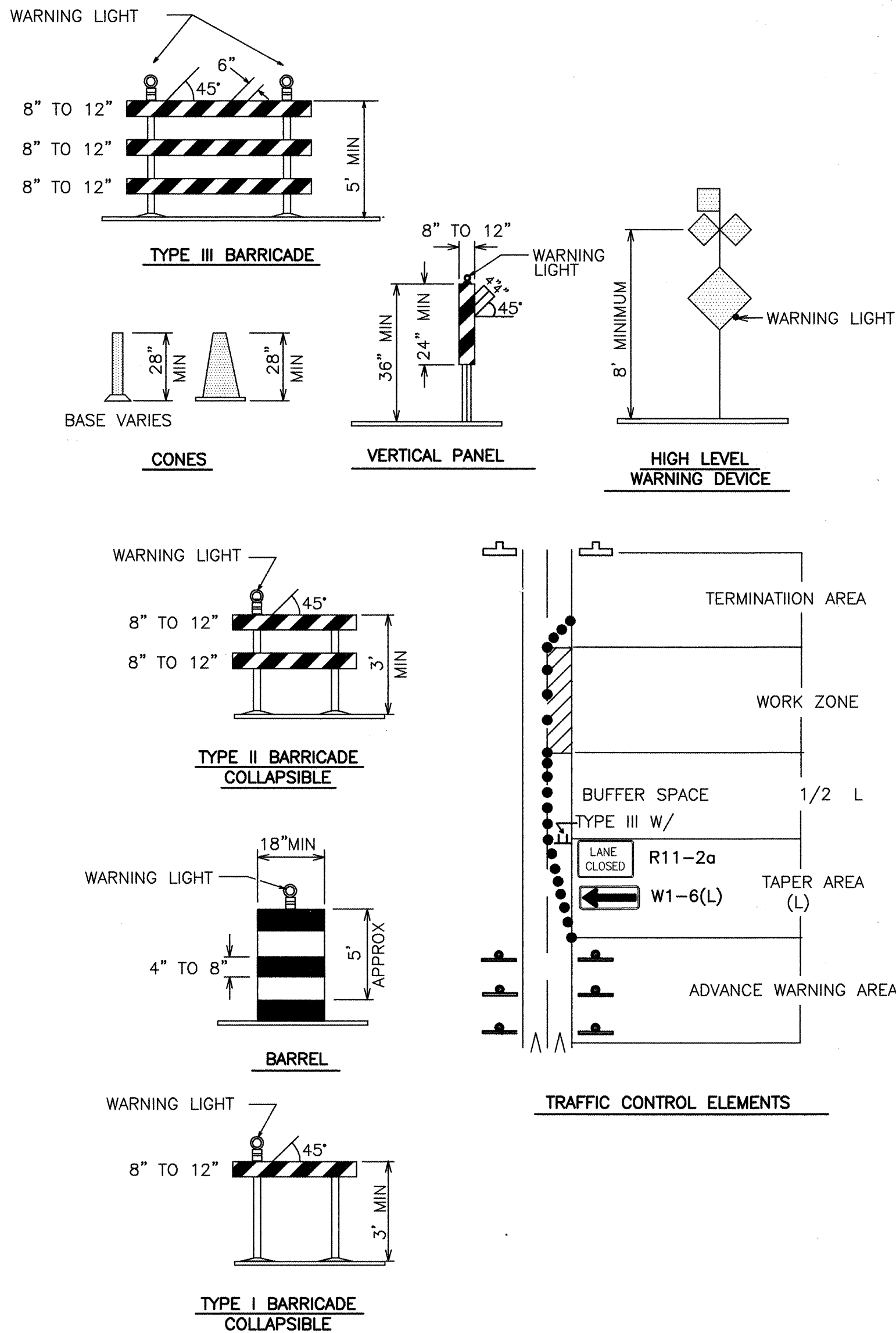
CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROJECT			
EXPLORA SCIENCE CENTER AND CHILDREN'S MUSEUM CONSTRUCTION DETAILS			
Design Review Committee APPROVED SEP 26 2000	City Engineer Approval APPROVED SEP 26 2000	Mo./Day/Yr. _____	
City Project No. 6497-91		Zone-Map No. J-13-Z	Sheet 4 Of 4



CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.
2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.
3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.
4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.
6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORK SITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.
8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.
9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.
10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.
11. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 7:00 A.M. OR END WORK AFTER 7:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.
13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.
17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.
18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
19. 24 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.
20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.
22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:  
1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.  
2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.  
3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION, WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.
26. ADVANCE WARNING SIGNS SHALL BE 36"x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER.



LEGEND

- WORK AREA  
BARRICADE - TYPE I, TYPE II, OR BARREL  
BARRICADE - TYPE III  
VERTICAL PANEL  
WARNING SIGN  
DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET  
FLAGMAN POSITION  
SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE STREET LIMIT OF THE STREET  
TAPER LENGTH - SEE CHART BELOW  
THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

TAPER REQUIREMENT

SPEED LIMIT (MPH)	TAPER LENGTH(L) (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

SPEED LIMIT (MPH)	MINIMUM DISTANCE IN FEET BETWEEN SIGNS	MINIMUM DISTANCE IN FEET FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

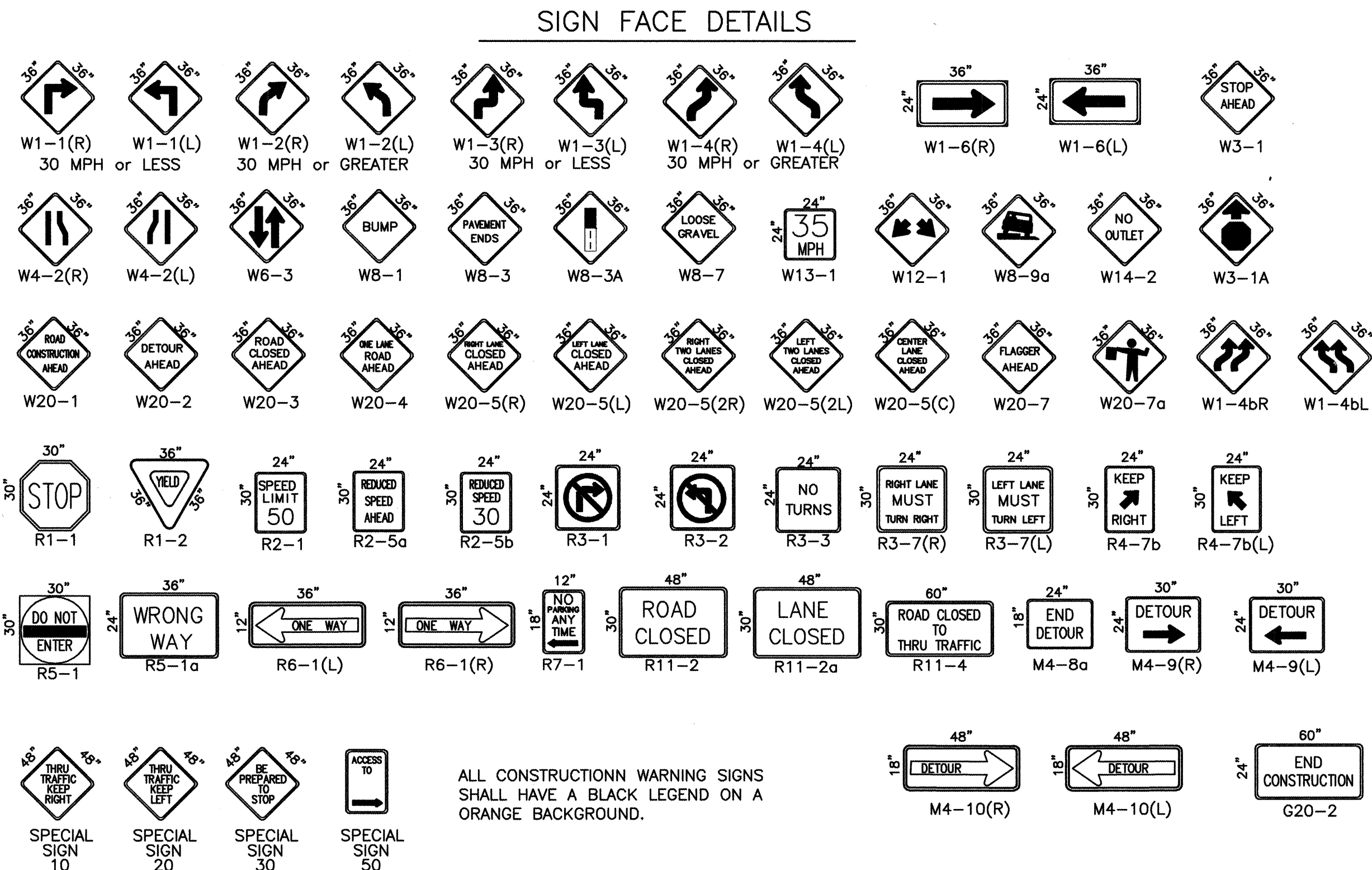
TAPER CRITERIA

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
40 MPH OR GREATER	$L = W \times S$
L = TAPER LENGTH W = WIDTH OF OFFSET IN FEET S = POSTED SPEED OR OFF-PEAK 85--PERCENTILE SPEED IN MPH	

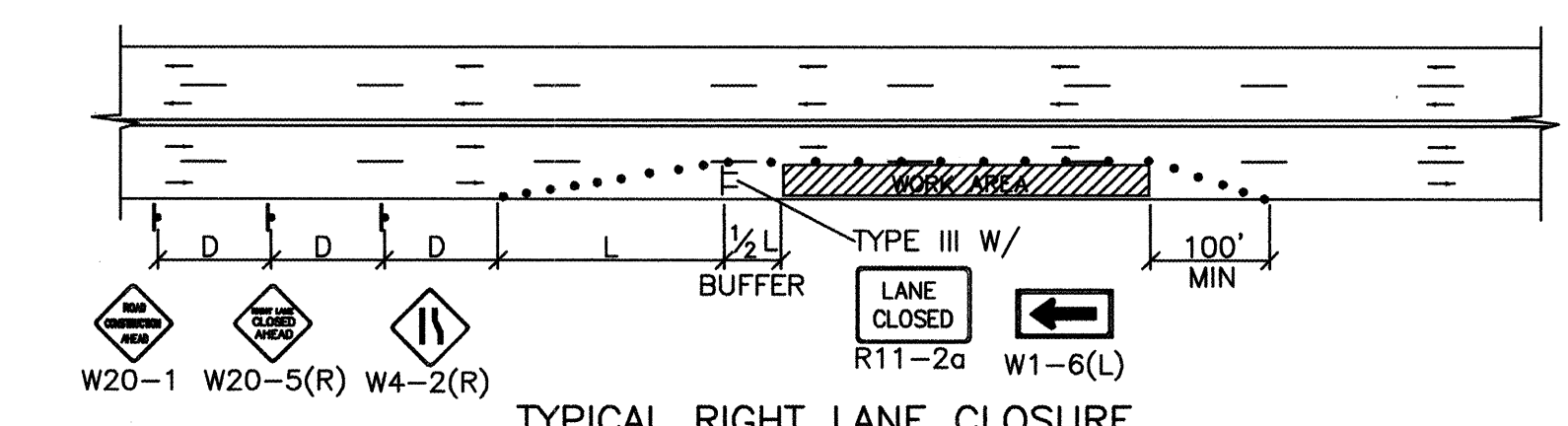
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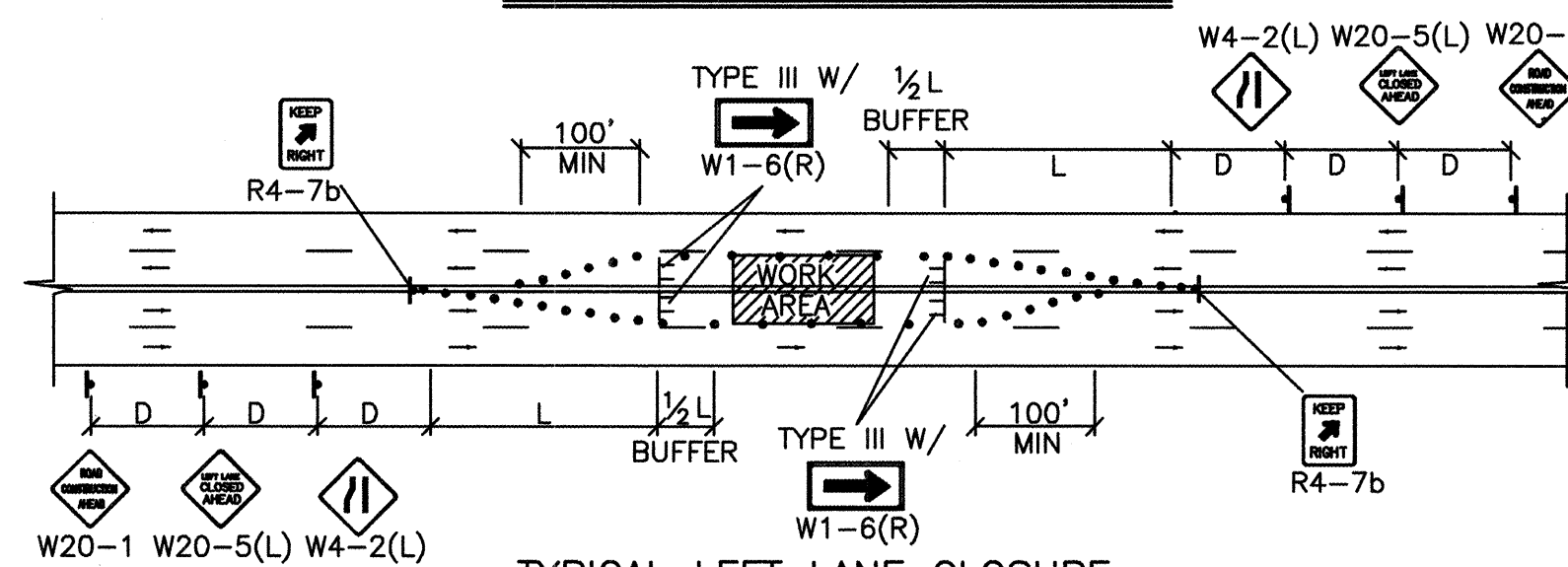
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

CITY OF ALBUQUERQUE CAPITOL IMPLEMENTATION PROJECT	
TITLE: EXPLORA SCIENCE CENTER AND CHILDREN'S MUSEUM TRAFFIC CONTROL SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS	
DESIGN REVIEW COMMITTEE EOA	CITY ENGINEER APPROVAL STD.
CITY PROJECT NO. 6497-91	ZONE MAP NO. J-13-Z
SHEET T-1	OF T-2

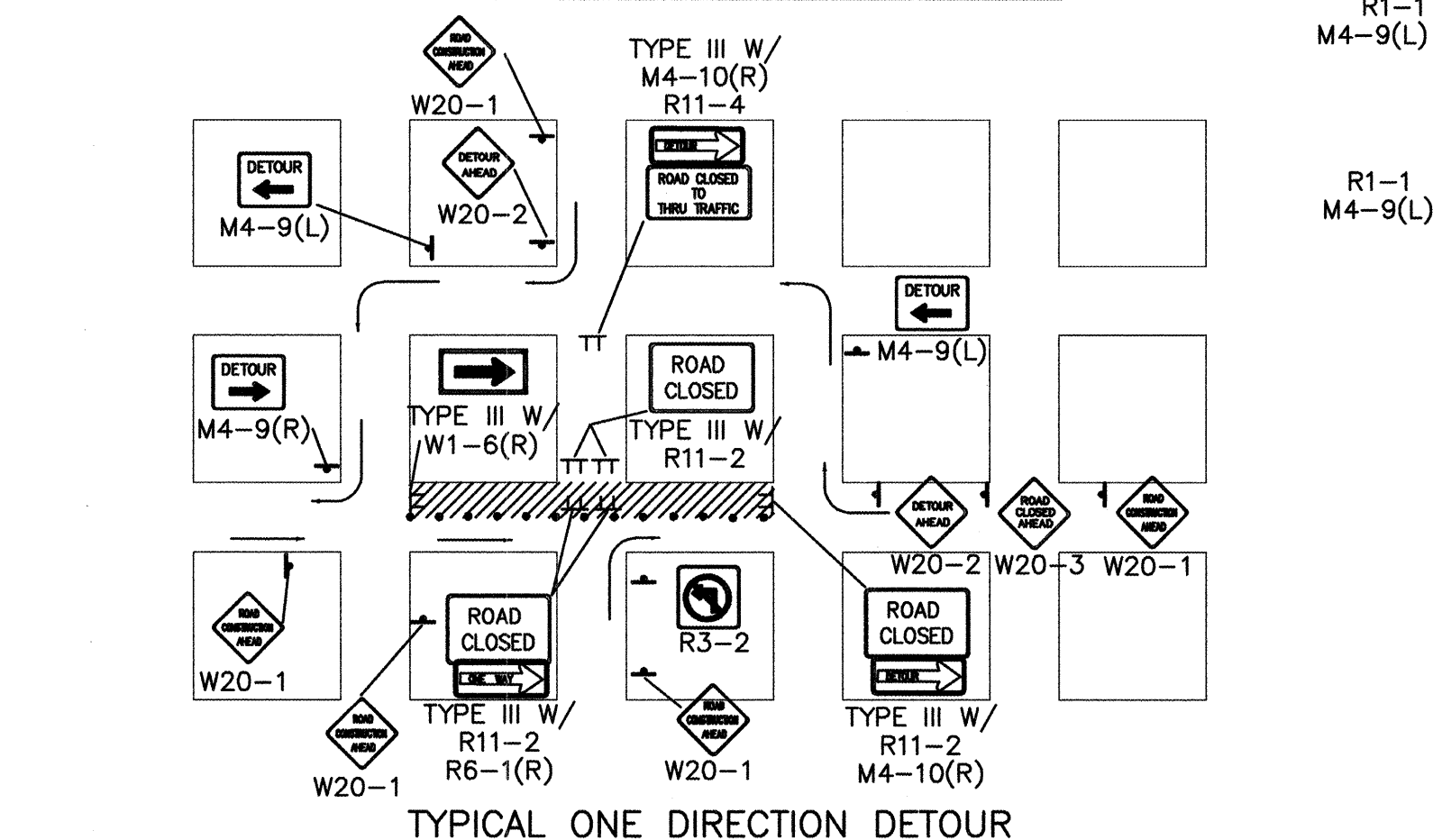




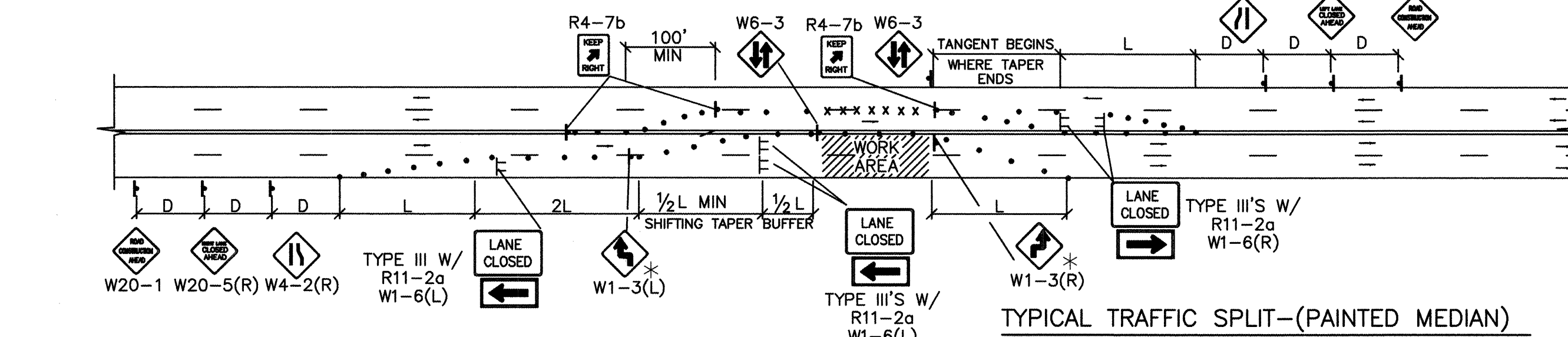
TYPICAL RIGHT LANE CLOSURE



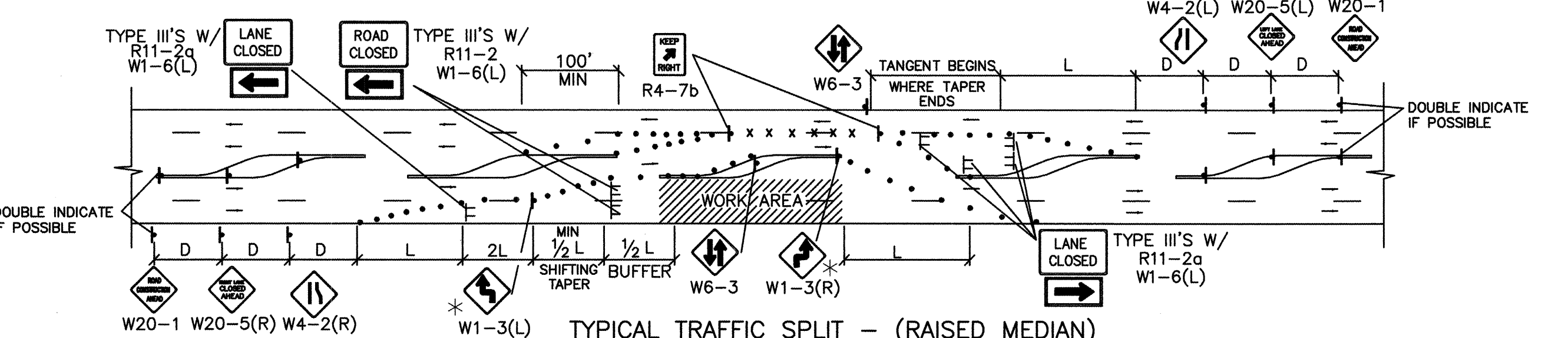
TYPICAL LEFT LANE CLOSURE



TYPICAL ONE DIRECTION DETOUR

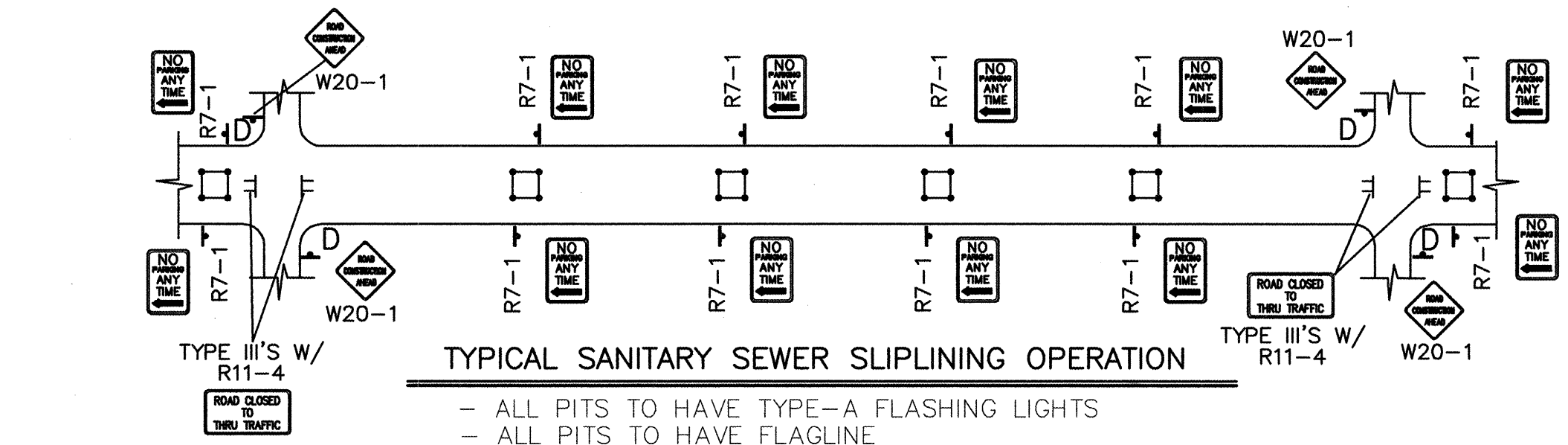


TYPICAL TRAFFIC SPLIT - (PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT - (RAISED MEDIAN)

- TRAFFIC SPLIT NOTES:
1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
  2. 1/2 L IS THE MINIMUM DISTANCE FOR SHIFTING TAPERS.
  3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
  4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
  5. REDUCED SPEED MAY BE CONSIDERED.
  6. \* USE W1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.

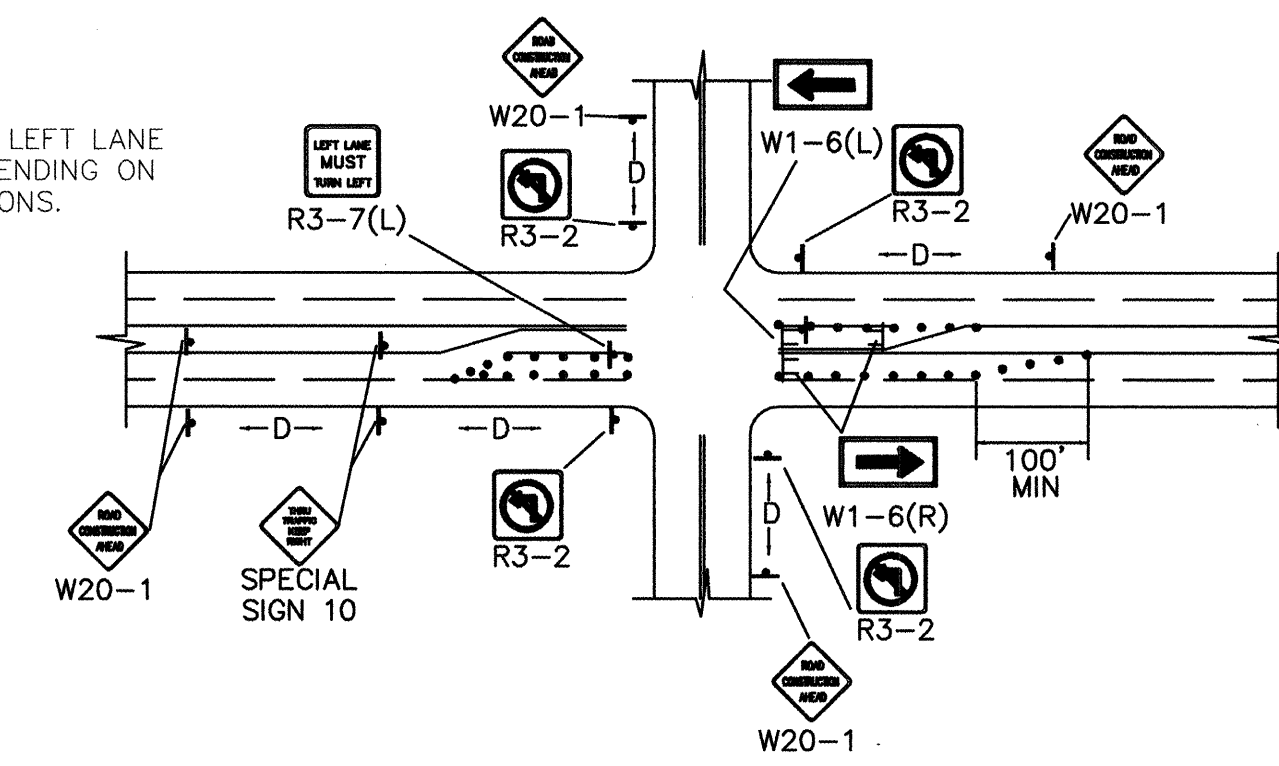


TYPICAL SANITARY SEWER SLIPLINING OPERATION

- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS
- ALL PITS TO HAVE FLAGLINE

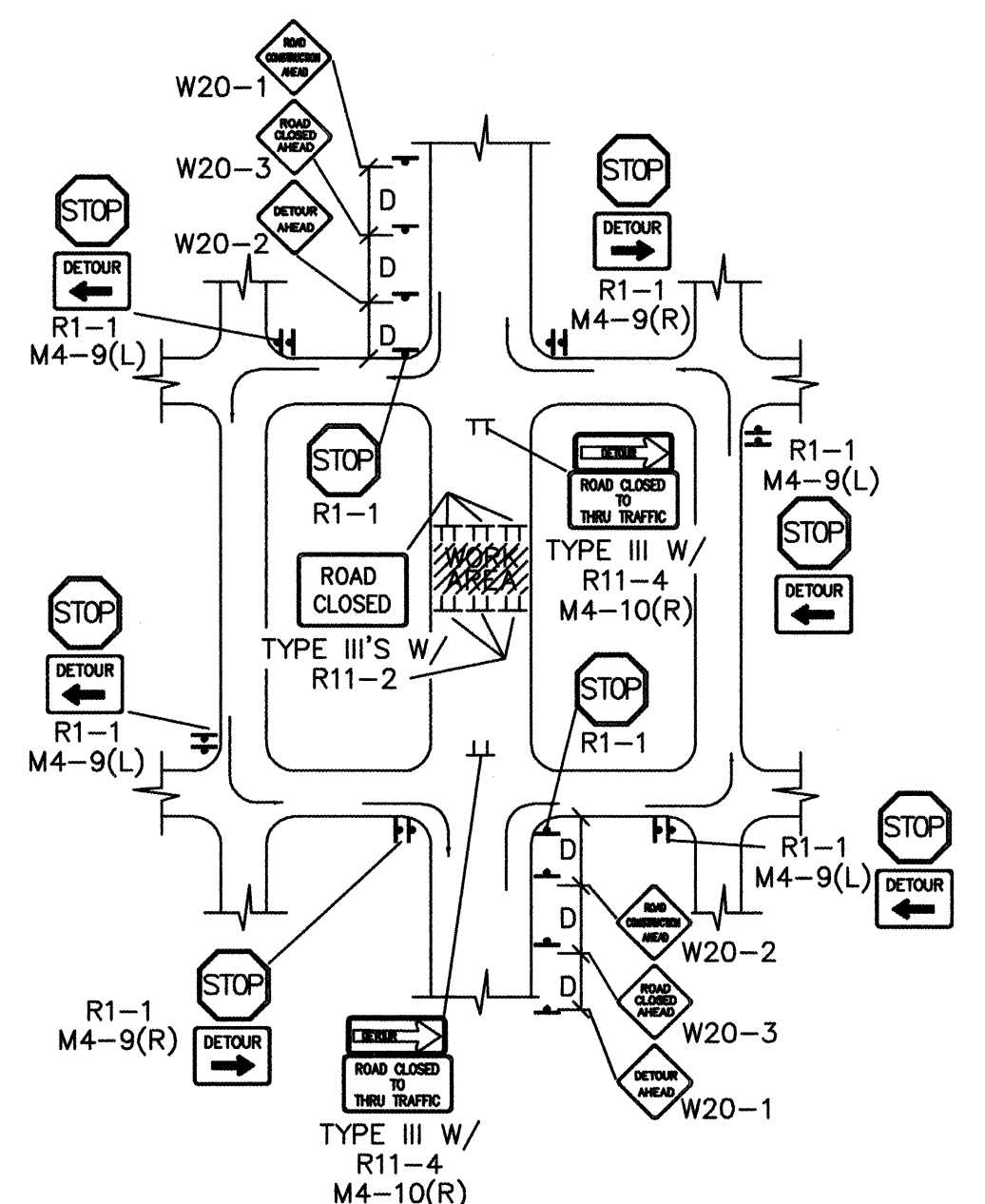
**GENERAL NOTE:**  
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON AN ORANGE BACKGROUND.  
ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF FORTY EIGHT (48) INCHES BY FORTY EIGHT (48) INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.

NOTE:  
MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.



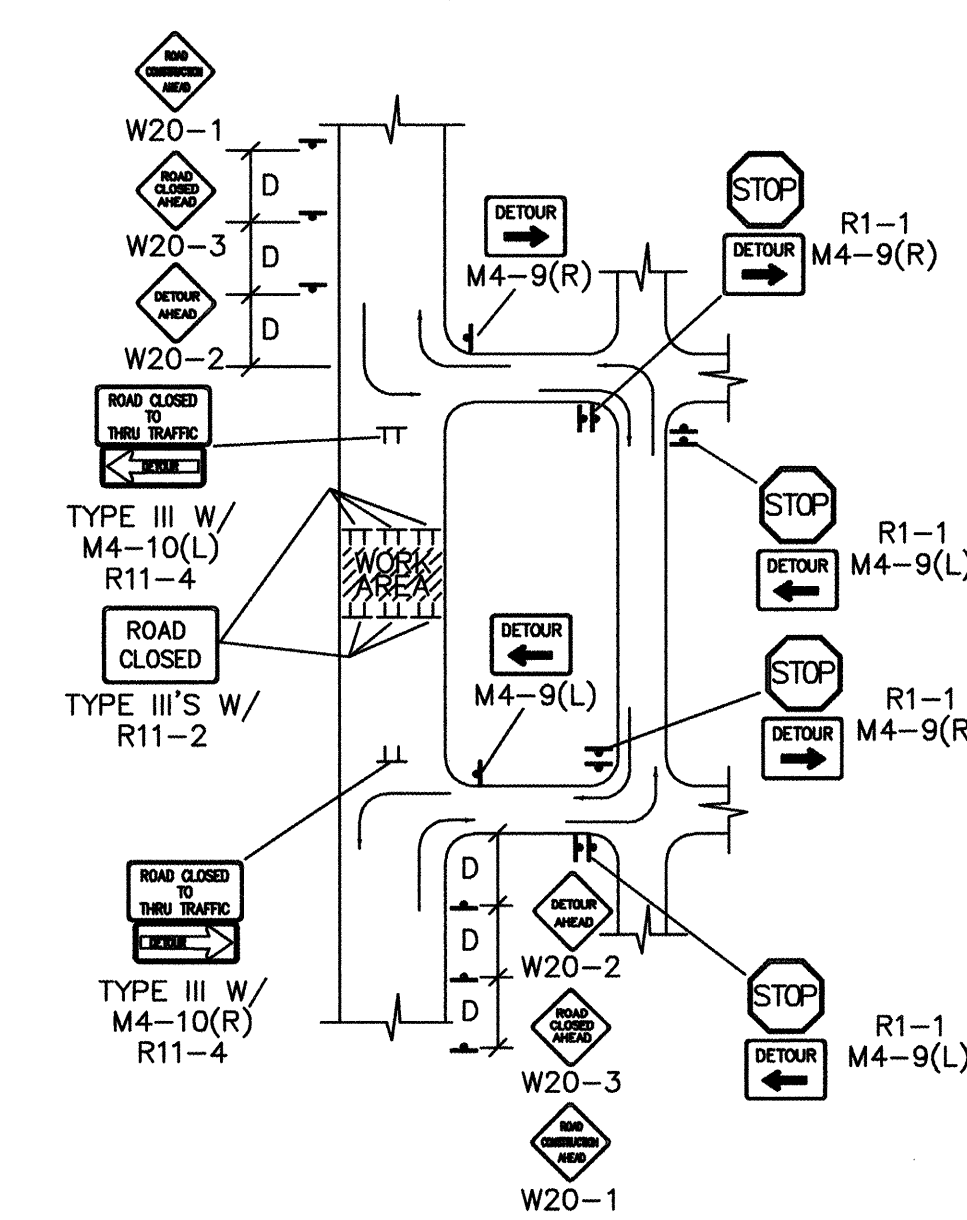
TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION.



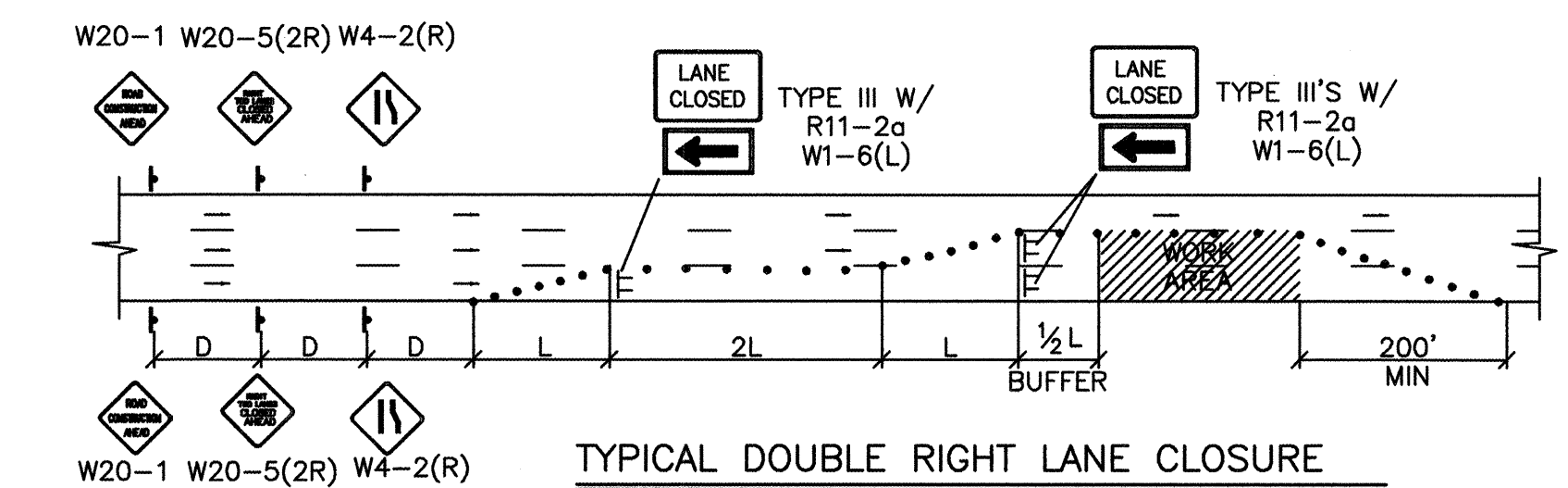
TYPICAL MID-BLOCK CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

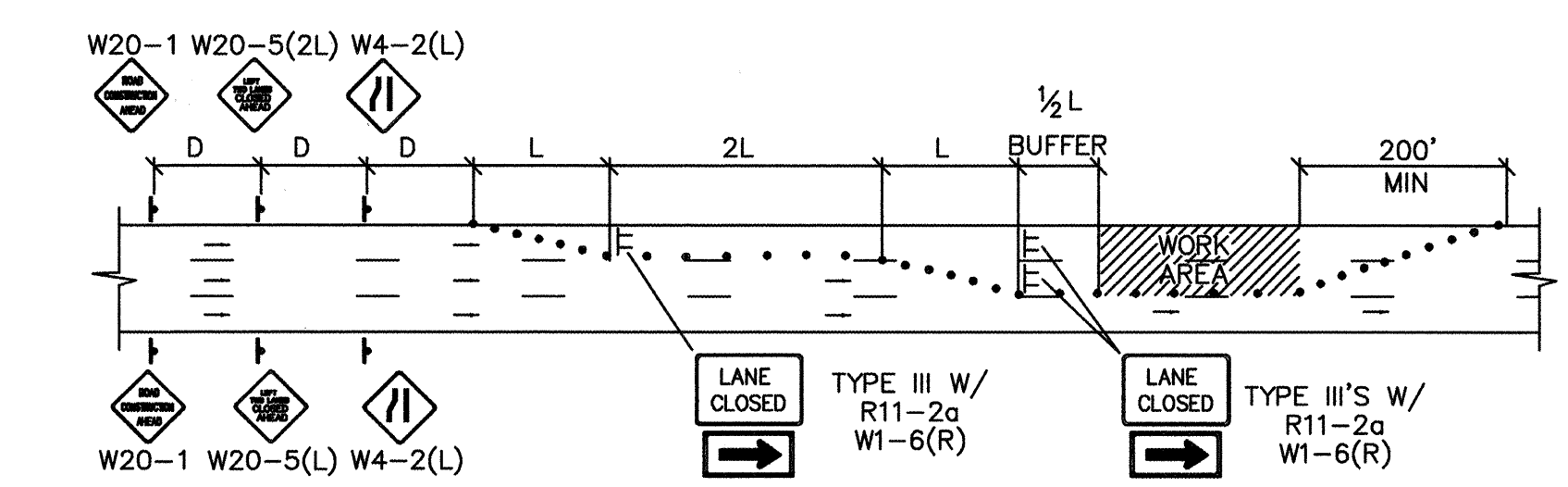


TYPICAL STREET CLOSURE

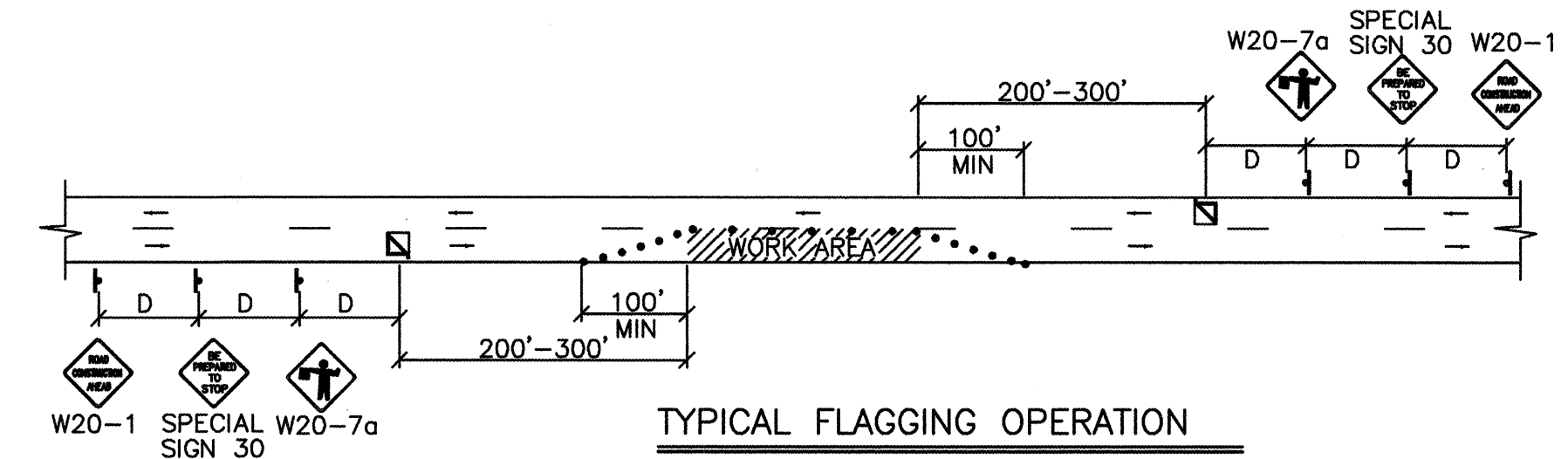
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



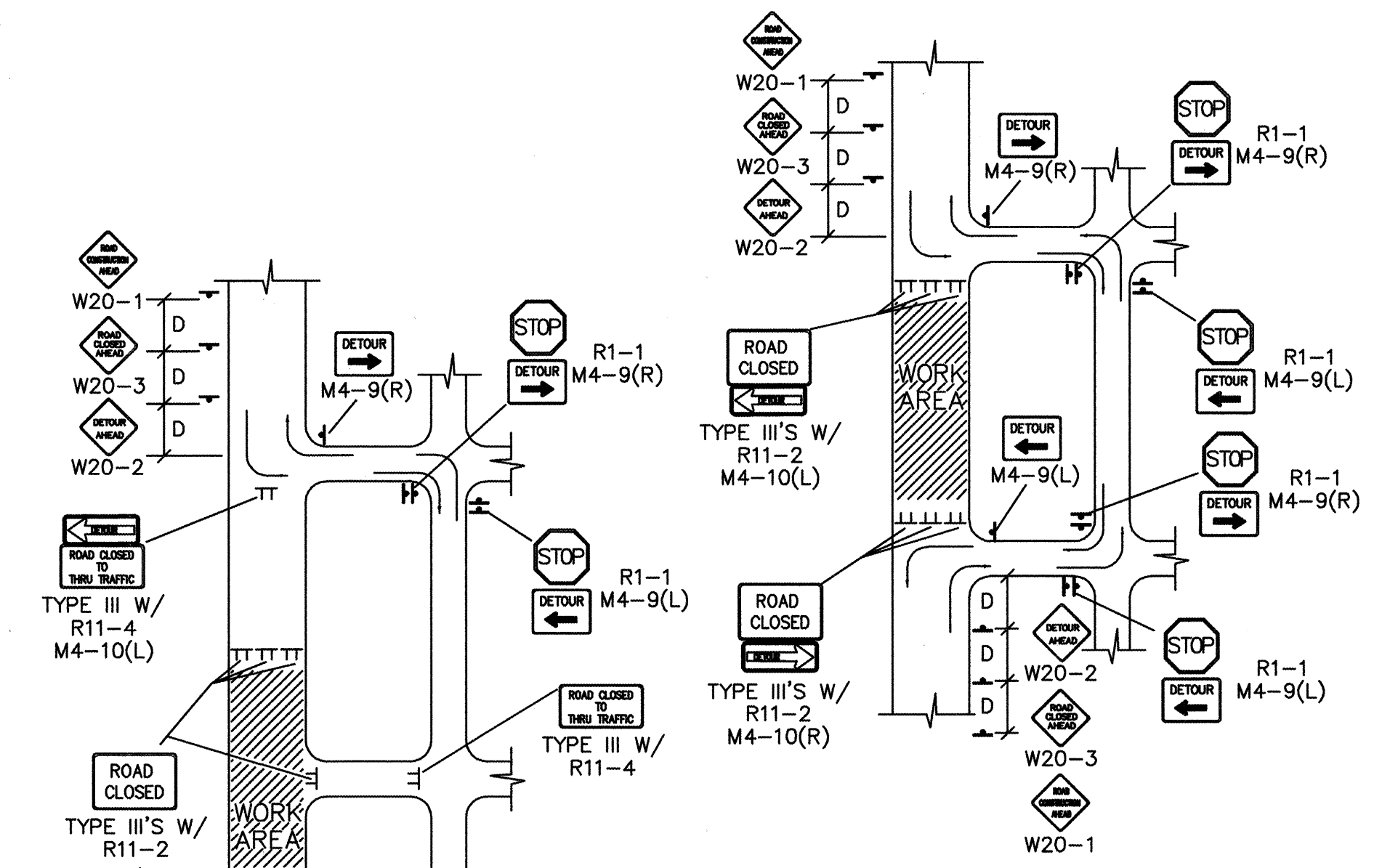
TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL DOUBLE LEFT LANE CLOSURE



TYPICAL FLAGGING OPERATION



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

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CITY OF ALBUQUERQUE CAPITOL IMPLEMENTATION PROJECT	
TITLE: EXPLORA SCIENCE CENTER AND CHILDREN'S MUSEUM TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF MUTCD)	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
MO./DAY/YR.	MO./DAY/YR.
CITY PROJECT NO.	ZONE MAP NO.
6497-91	J-13-Z
SHEET	OF
T-2	T-2