

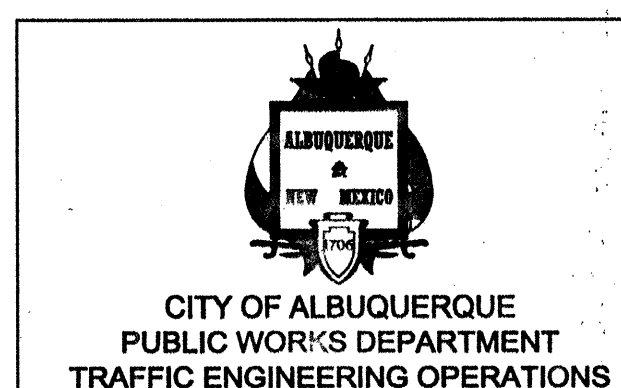
ZONE MAP K-17

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
TRAFFIC ENGINEERING OPERATIONS  
PERMANENT DIVERTER INSTALLATION  
NOB HILL NEIGHBORHOOD

DRAWING LIST

- 1 - TITLE SHEET
- 2 - OVERVIEW AND GENERAL NOTES
- 3 - INTERSECTION PLANS
- 4 - DETAIL SHEET #1
- 5 - DETAIL SHEET #2
- 6 - DETAIL SHEET #3
- 7 - TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)
- 8 - SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

David W. Hume



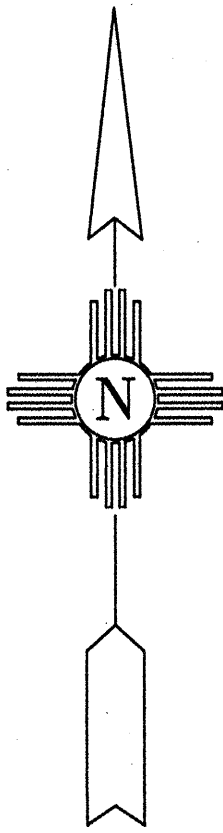
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|-----------------------------|--------|------------------|----------|-----------------|---------------------------|-----------------|--------------|
| REV.                        | SHEETS | CITY ENGINEER    | DATE     | USER DEPARTMENT | DATE                      | USER DEPARTMENT | DATE         |
| ENGINEERS STAMP & SIGNATURE |        | APPROVALS        | ENGINEER | DATE            | *****                     |                 |              |
|                             |        | DRC Chairman     |          | 11/21/00        | APPROVED FOR CONSTRUCTION |                 |              |
|                             |        | Transportation   |          | 11/21/00        | 11/21/00                  |                 |              |
|                             |        | Water/Wastewater |          | 11-08-00        |                           |                 |              |
|                             |        | Hydrology        |          | 11/21/00        |                           |                 |              |
|                             |        | Parks            |          |                 | City Engineer Date        |                 |              |
|                             |        | Constr. Mngmt.   |          | 11/21/00        |                           |                 |              |
|                             |        | City Project No. |          |                 |                           |                 | Sheet 1 of 8 |
|                             |        | 651091           |          |                 |                           |                 |              |

NOTICE TO CONTRACTORS

1. ALL WORK DETAILED ON THESE DRAWINGS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 (INCLUDING UPDATES 1 THRU 6) AS HEREBY REFERRED TO AS THE SPECIFICATIONS. REFERENCES MADE TO STANDARD DRAWINGS IMPLY THAT SECTION OF THE SPECIFICATIONS WHICH INCLUDES MISCELLANEOUS STANDARD DETAILS.
2. LOCATIONS OF UTILITIES ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE IN THE FIELD.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL UTILITIES EXPOSED DURING CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGE TO ALL UTILITIES, INCLUDING SERVICE LINES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ANY CONFLICTS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
5. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE; TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY CONSTRUCTION COORDINATOR (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS.
6. 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, AS PER COA STANDARDS.
7. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) WORKING DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE ENGINEER. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION 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.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO TRAFFIC CONDUITS AND DETECTORS.
9. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB AND GUTTER, DRIVE PADS, HANDICAP RAMPS, AND SIDEWALKS DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND SHALL REPAIR OR REPLACE PER CITY OF ALBUQUERQUE STANDARDS AT CONTRACTOR'S EXPENSE.
10. NO BARRIERS, BOLLARDS, OR DIVERTER IMPROVEMENTS SHALL BE PLACED OVER STORM DRAIN MANHOLES, SANITARY MANHOLES, WATER VALVES, OR ANY UNDERGROUND UTILITY LINE.










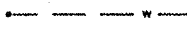
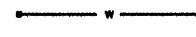




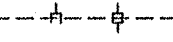
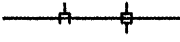










GENERAL NOTES

- QUESTIONS SHOULD BE DIRECTED TO NATHAN BEAUHEIM OR TOM MENICUCCI AT CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS, 857-8680.
- ALL SIGNAGE AND MARKINGS TO BE INSTALLED IN ACCORDANCE WITH MUTCD SPECIFICATIONS.
- ALL PORTLAND CEMENT CONCRETE FOR PAVEMENT, DRIVEPADS, CURB & GUTTER SECTIONS, VALLEY GUTTERS, SANITARY SEWER STRUCTURES, AND SANITARY SEWER MANHOLE BASES TO BE 4000 PSI FLY ASH. ALL PORTLAND CEMENT CONCRETE FOR EXTERIOR STRUCTURES, EXTERIOR SLAB ON GRADE (SIDEWALKS, STEPS), STORM DRAIN MANHOLE BASES AND MISCELLANEOUS CONCRETE TO BE 3500 PSI FLY ASH. REFER TO SECTION 101 OF THE SPECIFICATIONS.
- BOLLARDS TO BE PAINTED SHERWIN-WILLIAMS DTM ACRYLIC GLOSS SAFETY GREEN, SW 4095 B66-100 SERIES.
- ALL SIGNS REMOVED TO BE RETURNED TO CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS.
- DIVERTER MEASUREMENTS TAKEN FROM NAIL INSERTED IN THE MIDDLE OF INTERSECTION, PAINTED FLORESCENT PINK.
- ALL LANDSCAPING TO BE CARRIED OUT BY NOB HILL NEIGHBORHOOD ASSOCIATION, IN COORDINATION WITH THE CITY OF ALBUQUERQUE PARKS AND RECREATION DEPT., 857-8640.

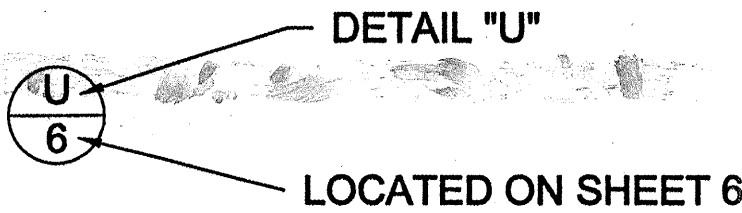


LOCATION PLAN  
From Zone Map K-17

LEGEND

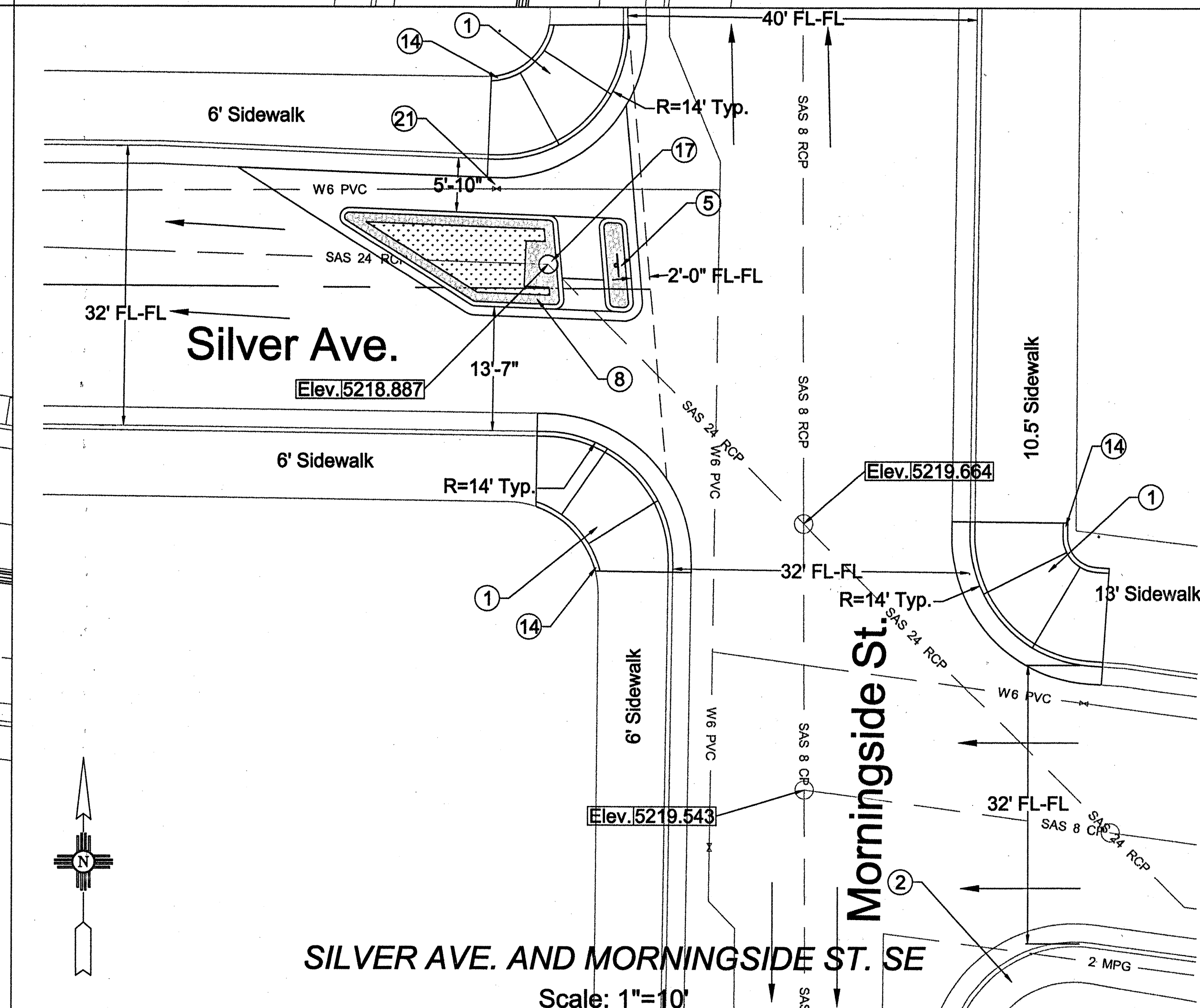
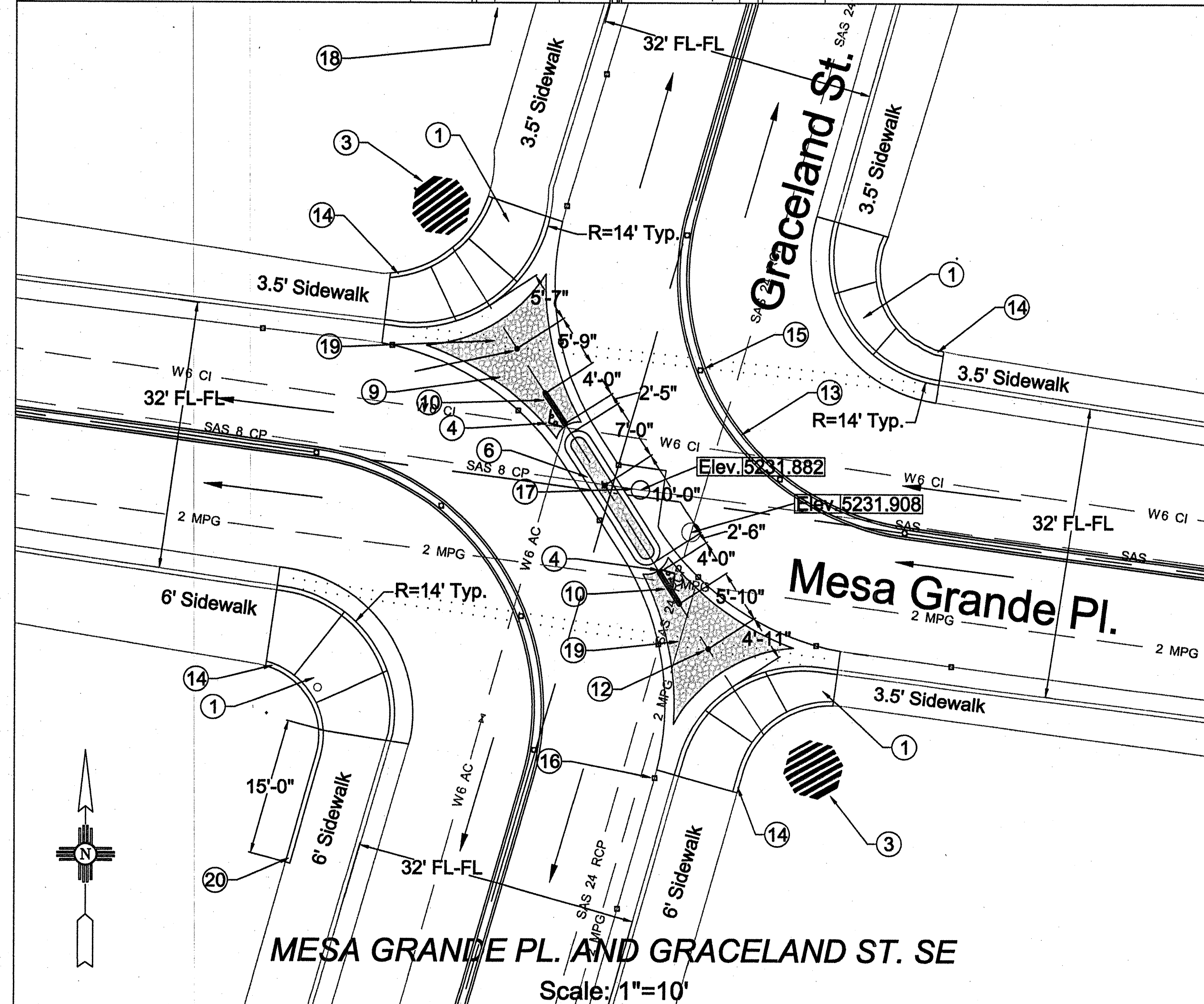
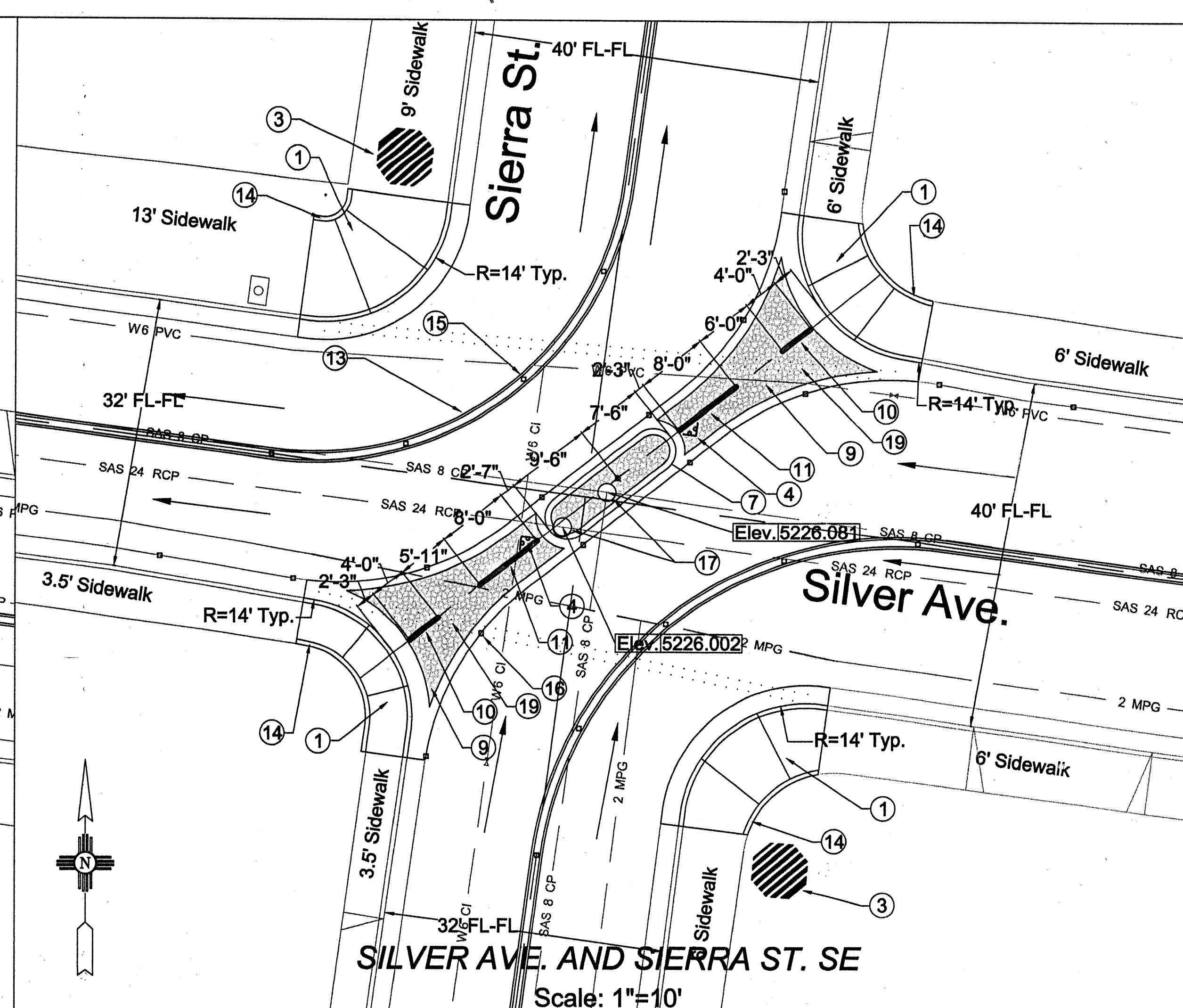
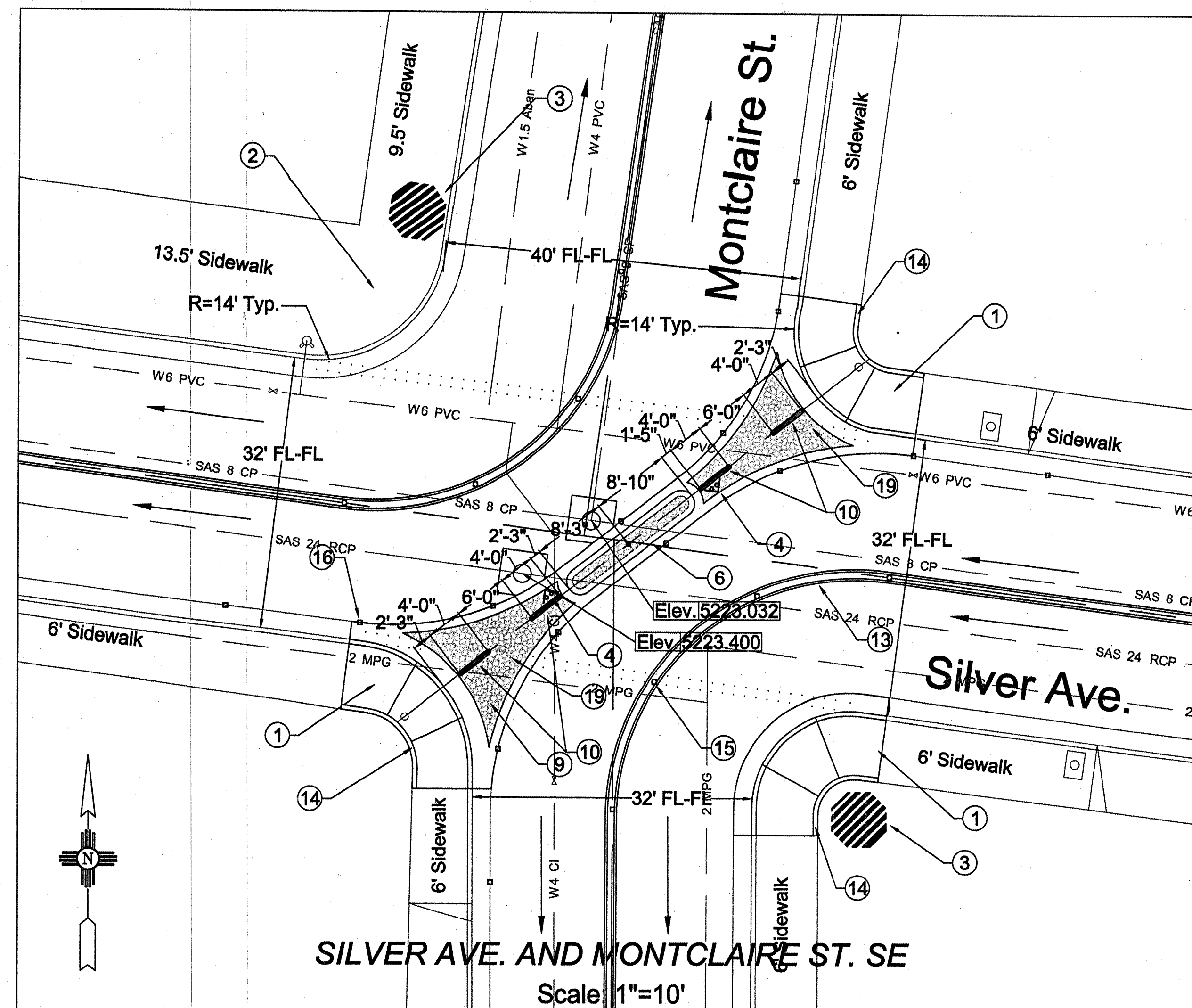
|   |   |   |
|---|---|---|
| WHITE TWO-WAY RAISED PAVEMENT MARKER        |    |   |
| YELLOW TWO-WAY RAISED PAVEMENT MARKER       |    |   |
| APPROXIMATE DIRECTION OF SURFACE WATER FLOW |    |   |
| TRAFFIC SIGN                                |    |   |
| MARKED CENTER POINT OF DIVERTER             |    |   |
|   | <u>EXISTING</u>   | <u>PROPOSED</u>   |
| SANITARY SEWER                              |    |    |
| STORM DRAIN                                 |    |    |
| WATER LINE W/ CAP                           |    |    |
| FIRE HYDRANT                                |    |    |
| GATE VALVE                                  |    |    |
| TEE & CROSS                                 |   |   |
| REDUCER                                     |  |  |
| POWER POLE                                  |  |  |
| WATER METER                                 |  |  |
| CURB & GUTTER W/ DRIVEWAY                   |  |  |
| GAS LINE                                    |  |  |

EXPLANATION OF DETAIL NOTATION



|   |                        |              |             |
|---|------------------------|--------------|-------------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>TRAFFIC ENGINEERING OPERATIONS    |                        |              |             |
| TITLE: PERMANENT DIVERTER INSTALLATION<br>NOB HILL NEIGHBORHOOD<br>PROJECT OVERVIEW |                        |              |             |
| DESIGN REVIEW COMMITTEE   | CITY ENGINEER APPROVAL | MO./DAY/YR.  | MO./DAY/YR. |
|   |                        |              |             |
| City Project No.<br>651091  | Zone Map No.<br>K-17   | Sheet 2 Of 8 |             |





### Keyed Notes

- 1 - Build Wheelchair Ramp as per Detail Sheet #5
- 2 - Keep Existing Wheelchair Ramp
- 3 - Remove Existing Stop Sign
- 4 - Install signs as per Detail Sheet #3
- 5 - Install 30 X 30 R5-1 as shown
- 6 - Narrow Median as per Detail Sheet #1
- 7 - Wide Median as per Detail Sheet #1
- 8 - No Inlet as per Detail Sheet #1
- 9 - Flush Section as per Detail Sheet #2
- 10 - 4' Telescopic Bollard
- 11 - 8' Telescopic Bollard
- 12 - Standard Bollard
- 13 - Add Stripes as shown, with all Centerline Radii to be 27', extending 50' from Point of Tangency, with Traffic Yellow Paint with Reflective Glass Beads
- 14 - Paint curbs Traffic Yellow with Reflective Glass Beads as shown.
- 15 - Yellow Two-Way Retroreflective Raised Pavement Markers, spaced 15' O.C. as shown
- 16 - White Two-Way Retroreflective Raised Pavement Markers, spaced 15' O.C. as shown
- 17 - Reset Sanitary Sewer Cover flush with Final Grade
- 18 - Remove "Stop Ahead" (W3-1) Sign and Pole
- 19 - Depression along nuisance water flow line as per Detail Sheet #2
- 20 - Header Curb, 6" above top of existing sidewalk, monolithic with header curb on Wheelchair Ramp, header curb on this Wheelchair Ramp to be flush with extended header curb, painted Traffic Yellow with Reflective Glass Beads
- 21 - Reset Water Valve Box Cover flush with Final Grade

### EXPLANATION OF DETAIL NOTATION

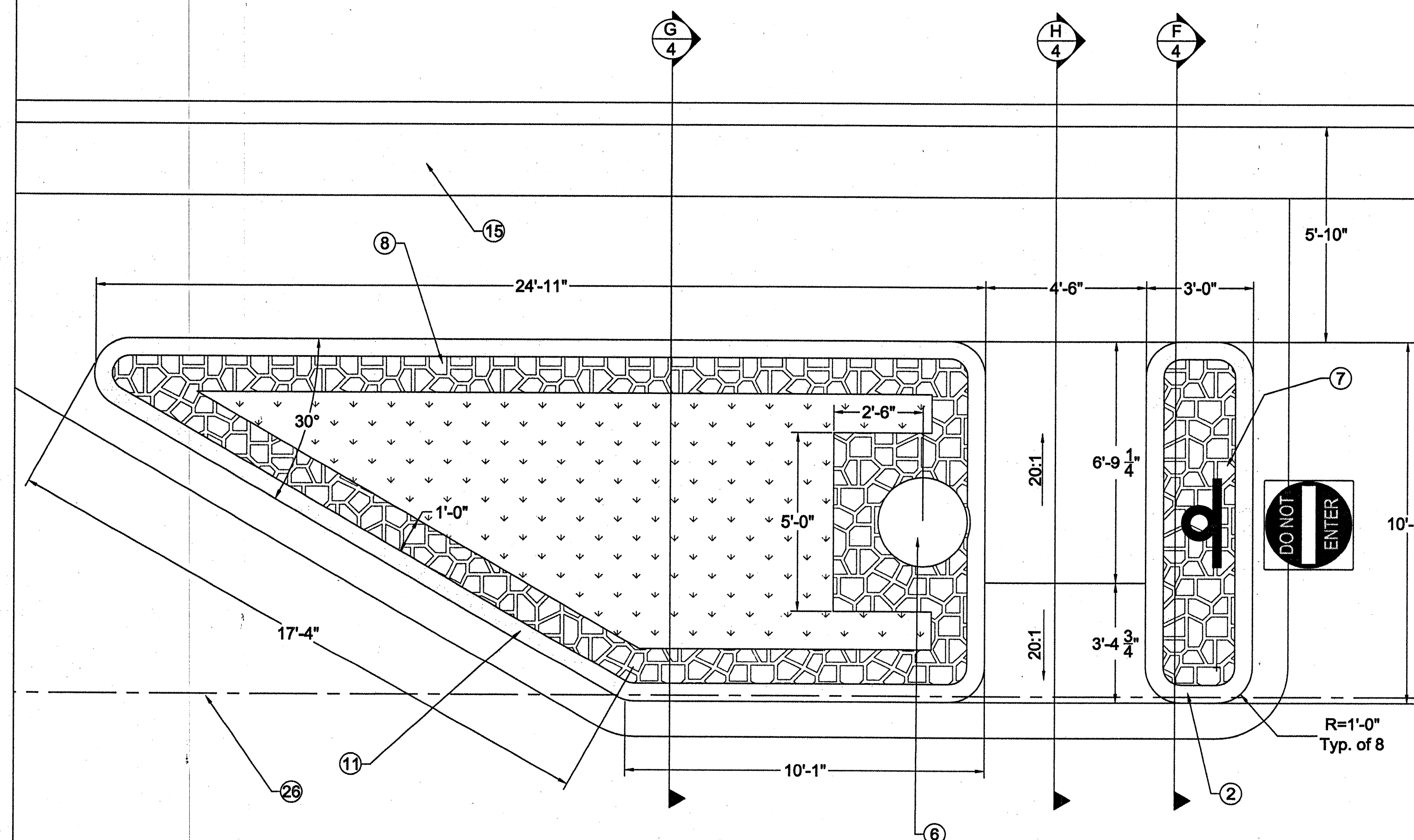
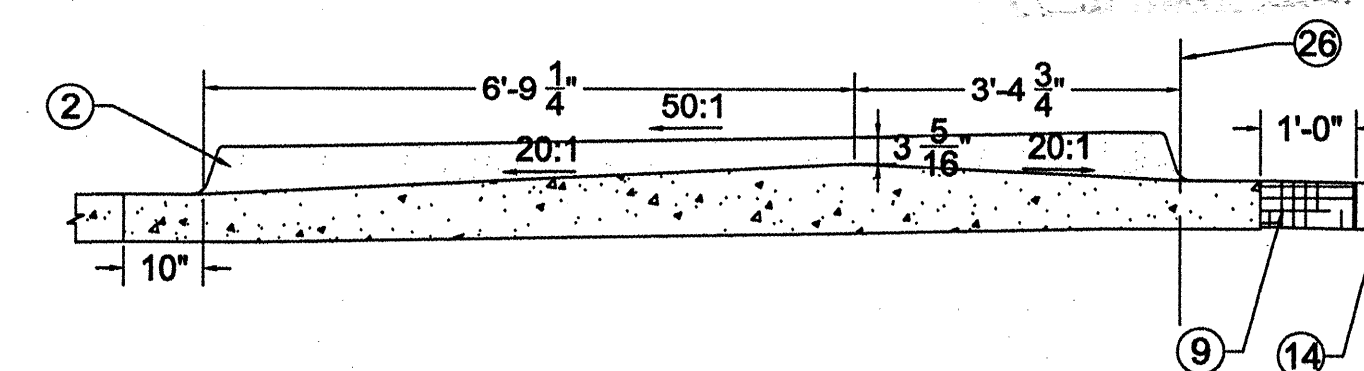
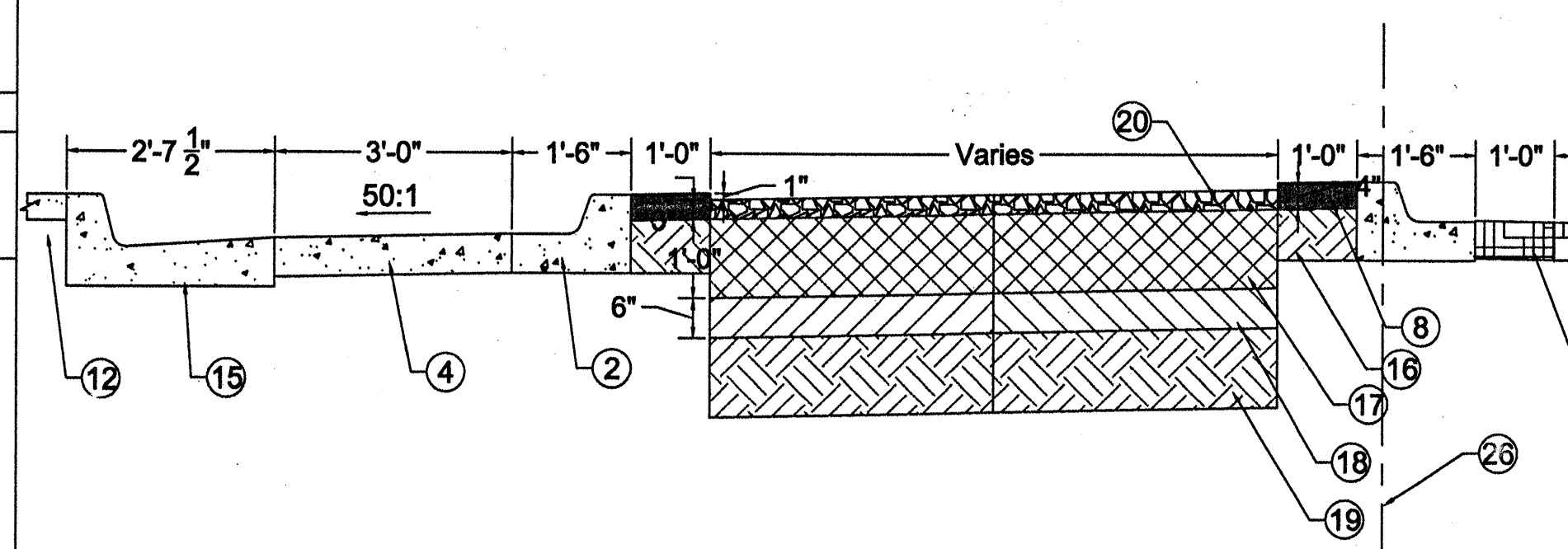
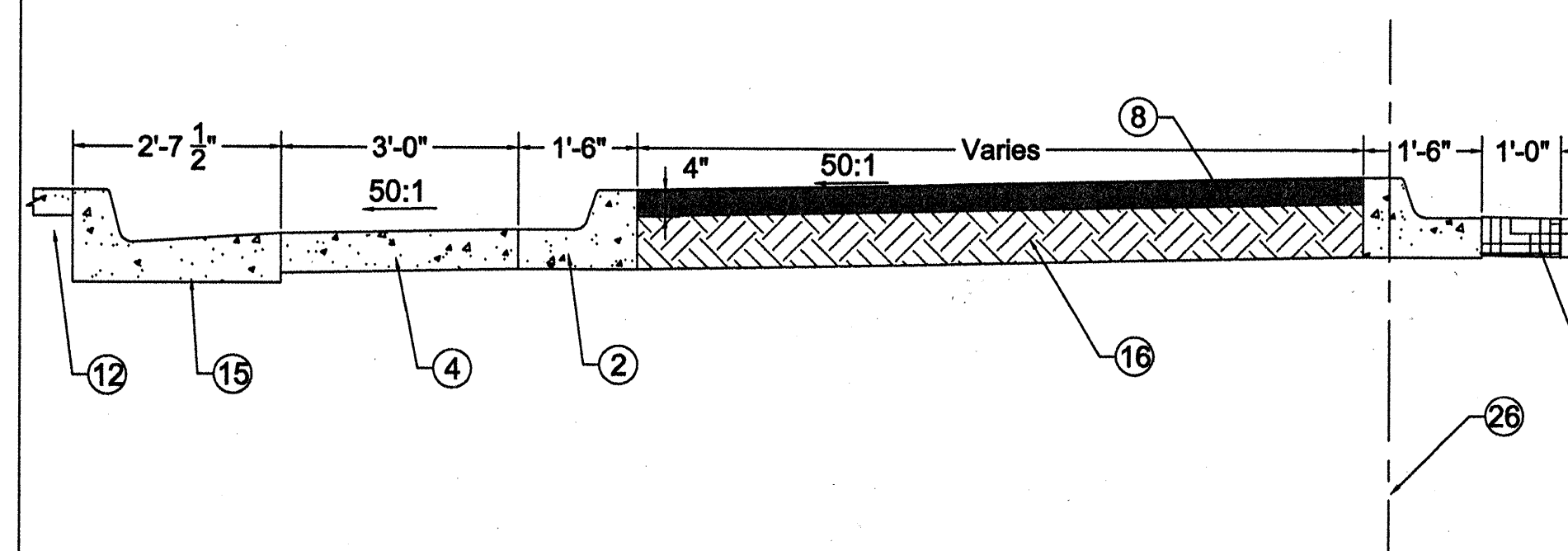
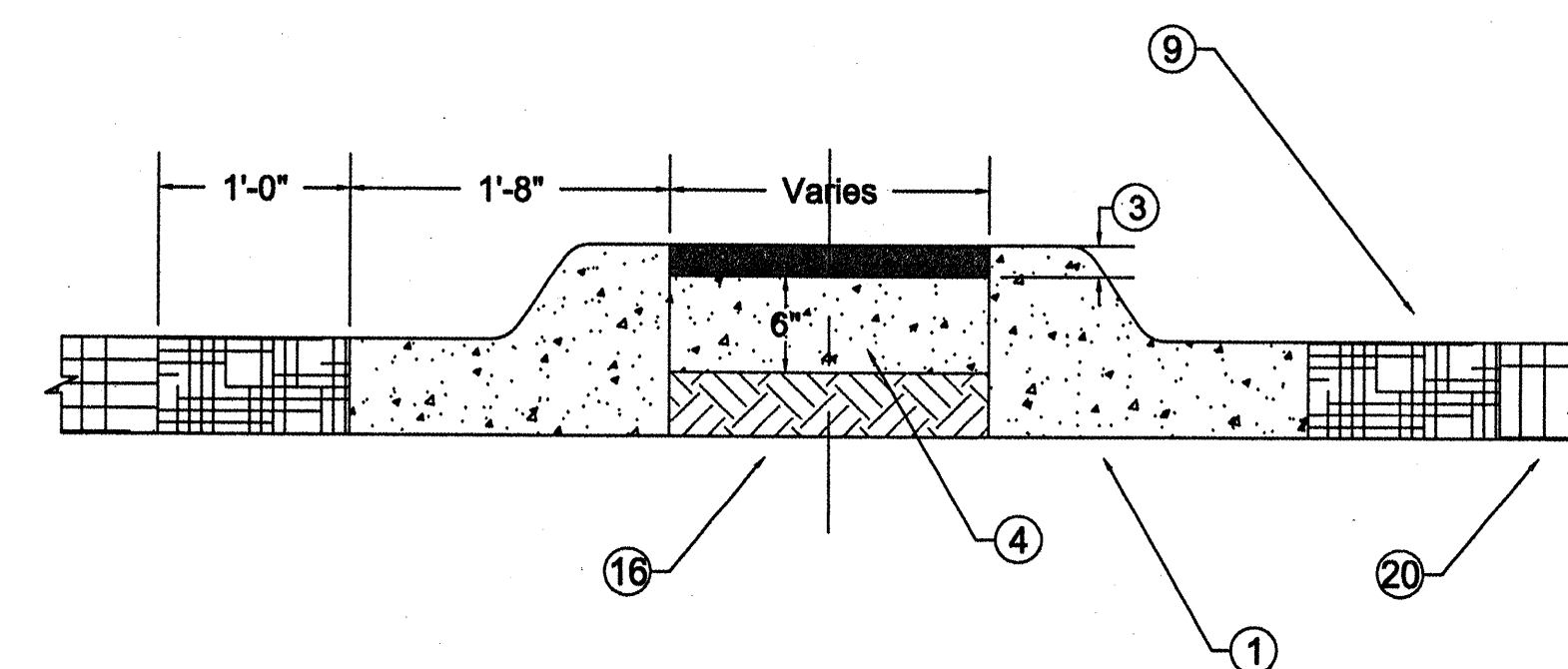
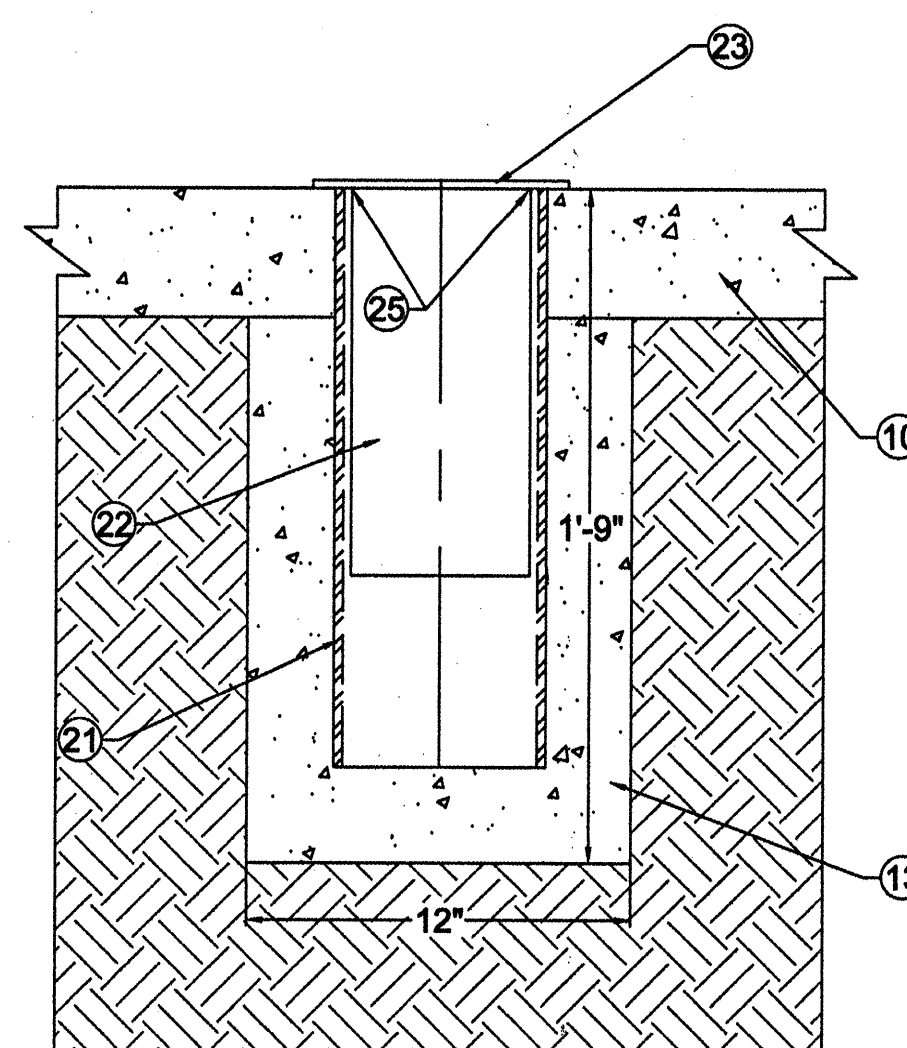
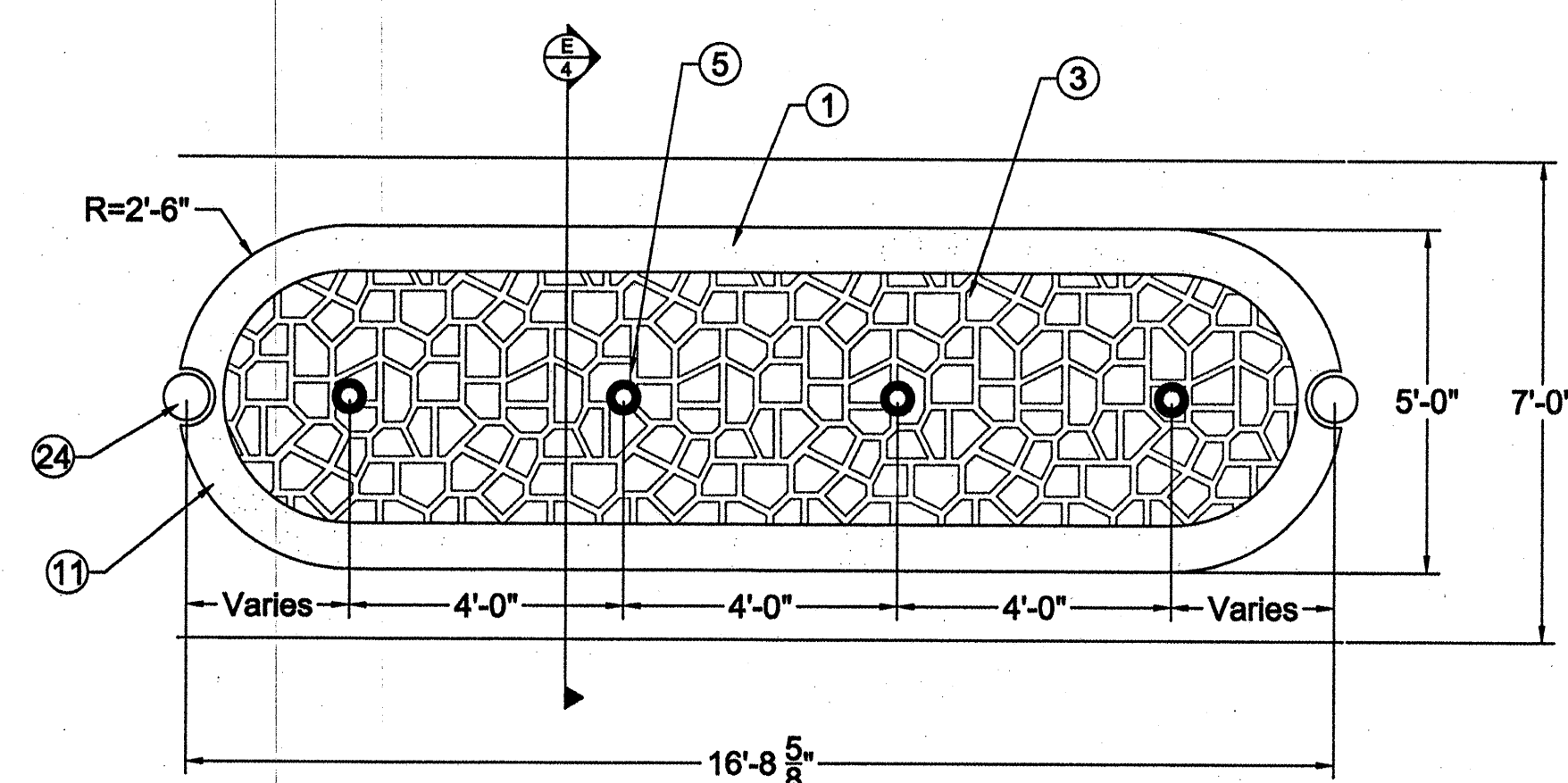
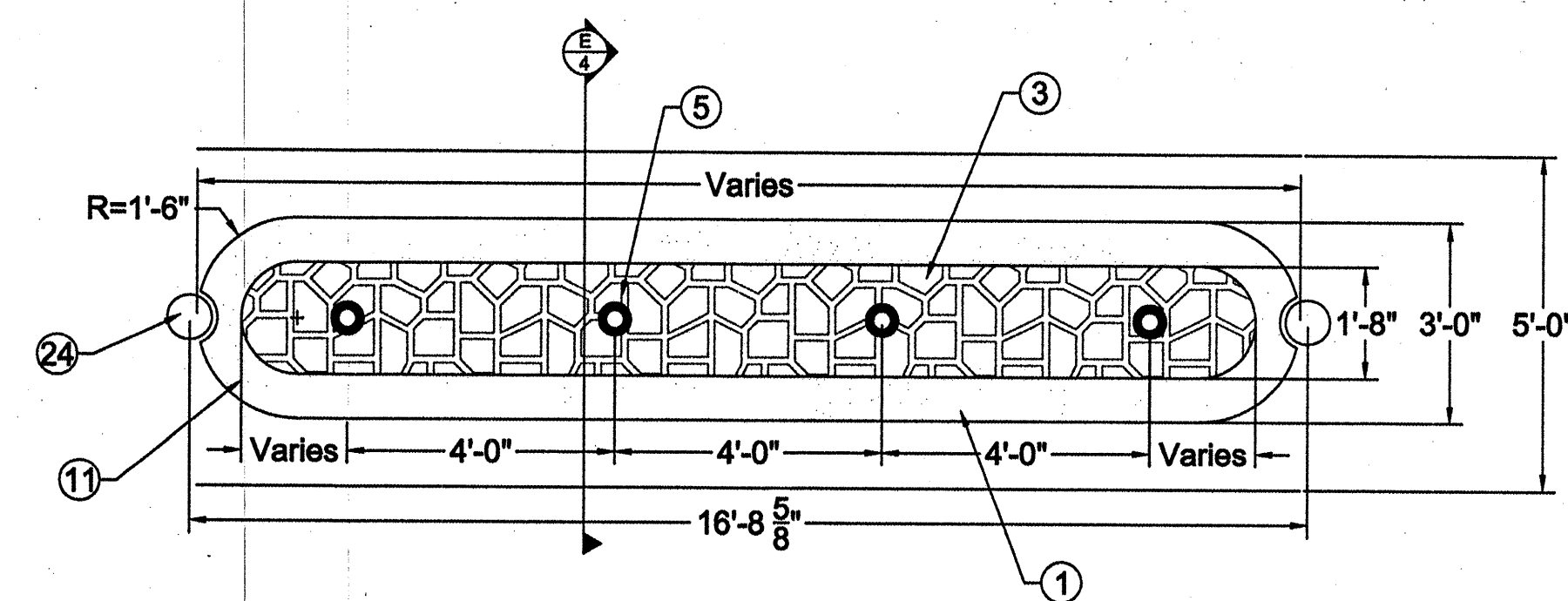
- U 6 - DETAIL "U"  
LOCATED ON SHEET 6

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
TRAFFIC ENGINEERING OPERATIONS  
TITLE: PERMANENT DIVERTER INSTALLATION  
NOB HILL NEIGHBORHOOD  
INTERSECTION PLANS

|                                 |                              |                                  |                      |
|---------------------------------|------------------------------|----------------------------------|----------------------|
| DESIGN REVIEW COMMITTEE         | CITY ENGINEER APPROVAL       | MO./DAY/YR.                      | MO./DAY/YR.          |
| DESIGNED BY<br>NATHAN BEAUMHEIM | DRAWN BY<br>NATHAN BEAUMHEIM | CHECKED BY<br>DAVE W. HARMON, PE | DATE<br>OCTOBER 2000 |
| City Project No.<br>651091      | Zone Map No.<br>K-17         | Sheet 3 of 8                     |                      |

| AS BUILT INFORMATION |      | BENCH MARKS |      | SURVEY INFORMATION |    | ENGINEER'S SEAL |    | REMARKS |      | DESIGN             |              |
|----------------------|------|-------------|------|--------------------|----|-----------------|----|---------|------|--------------------|--------------|
| CONTRACTOR           | DATE | BM SK17A    | DATE | NO.                | BY | DATE            | BY | NO.     | DATE | DESIGNED BY        | DATE         |
|                      |      |             |      |                    |    |                 |    |         |      | NATHAN BEAUMHEIM   | OCTOBER 2000 |
|                      |      |             |      |                    |    |                 |    |         |      | NATHAN BEAUMHEIM   | OCTOBER 2000 |
|                      |      |             |      |                    |    |                 |    |         |      | DAVE W. HARMON, PE | OCTOBER 2000 |





- |                    |
|--------------------|
| <b>Keyed Notes</b> |
|--------------------|

- ① - Mountable Median Curb  $\begin{pmatrix} L \\ 5 \end{pmatrix}$
- ② - Median Curb & Gutter  $\begin{pmatrix} N \\ 5 \end{pmatrix}$
- ③ - 2" Thick Bomanite Lift, Colored 'Sunset Gray', Patterned 'Fishscale Cobblestone'
- ④ - 6" Thick PCC Pavement
- ⑤ - 4' Reflective Yellow Tubular Delineator
- ⑥ - Reset Sanitary Sewer Cover Flush with finished grade
- ⑦ - Install 30 X 30 R5-1 as shown
- ⑧ - 4" Thick Median Pavement with Bomanite Treatment, Colored 'Sunset Gray', Patterned 'Fishscale Cobblestone'.
- ⑨ - Remove and Replace existing Asphalt Concrete Pavement (Residential Type)
- ⑩ - Concrete Pavement
- ⑪ - Paint curb Traffic Yellow with Reflective Glass Beads
- ⑫ - Existing Sidewalk
- ⑬ - 4000 psi Fly Ash Concrete
- ⑭ - Existing Asphalt Pavement
- ⑮ - Existing Standard Curb & Gutter
- ⑯ - Compacted Subgrade, 95% Compaction
- ⑰ - Planting Soil Mixture
- ⑱ - Loosened Soil
- ⑲ - Existing Subgrade
- ⑳ - Mulch
- ㉑ - 18" Long 6" Sch. 40 Black Steel Pipe
- ㉒ - 12" Long 5" Sch. 40 Black Steel Pipe
- ㉓ - 8" Diameter, 1/4" Steel Plate Cap
- ㉔ - Gate Post Mounting Stub  $\begin{pmatrix} D \\ 4 \end{pmatrix}$
- ㉕ - Joint to be welded
- ㉖ - Approximate Centerline of Street

### EXPLANATION OF DETAIL NOTATION

DETAIL "U"

LOCATED ON SHEET 6

|        |   |  |  |  |  |
|--------|---|--|--|--|--|
|        | CITY OF ALBUQUERQUE   |  |  |  |  |
|        | PUBLIC WORKS DEPARTMENT   |  |  |  |  |
|        | TRAFFIC ENGINEERING OPERATIONS  |  |  |  |  |
| TITLE: | PERMANENT DIVERTER INSTALLATION<br>NOB HILL NEIGHBORHOOD<br>DETAIL SHEET #1 |  |  |  |  |

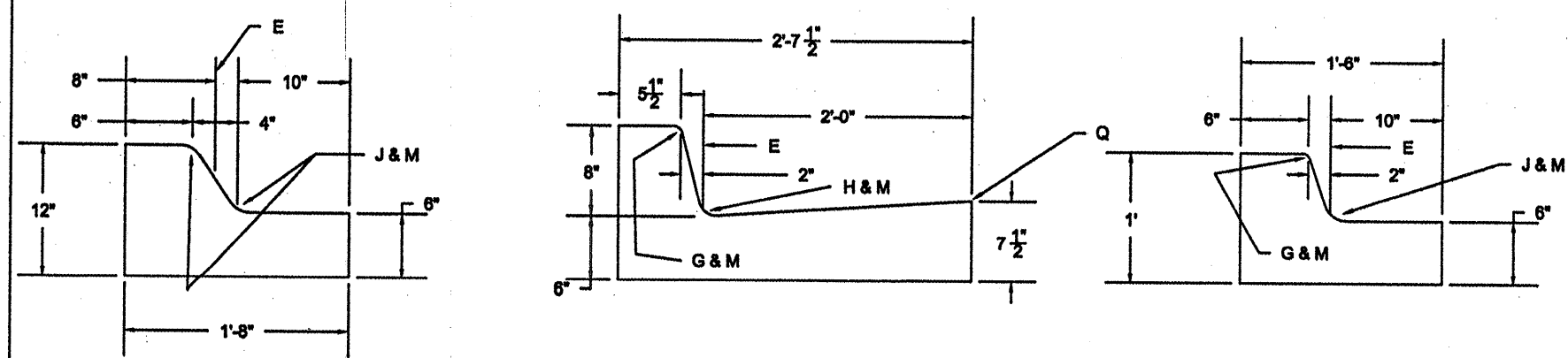
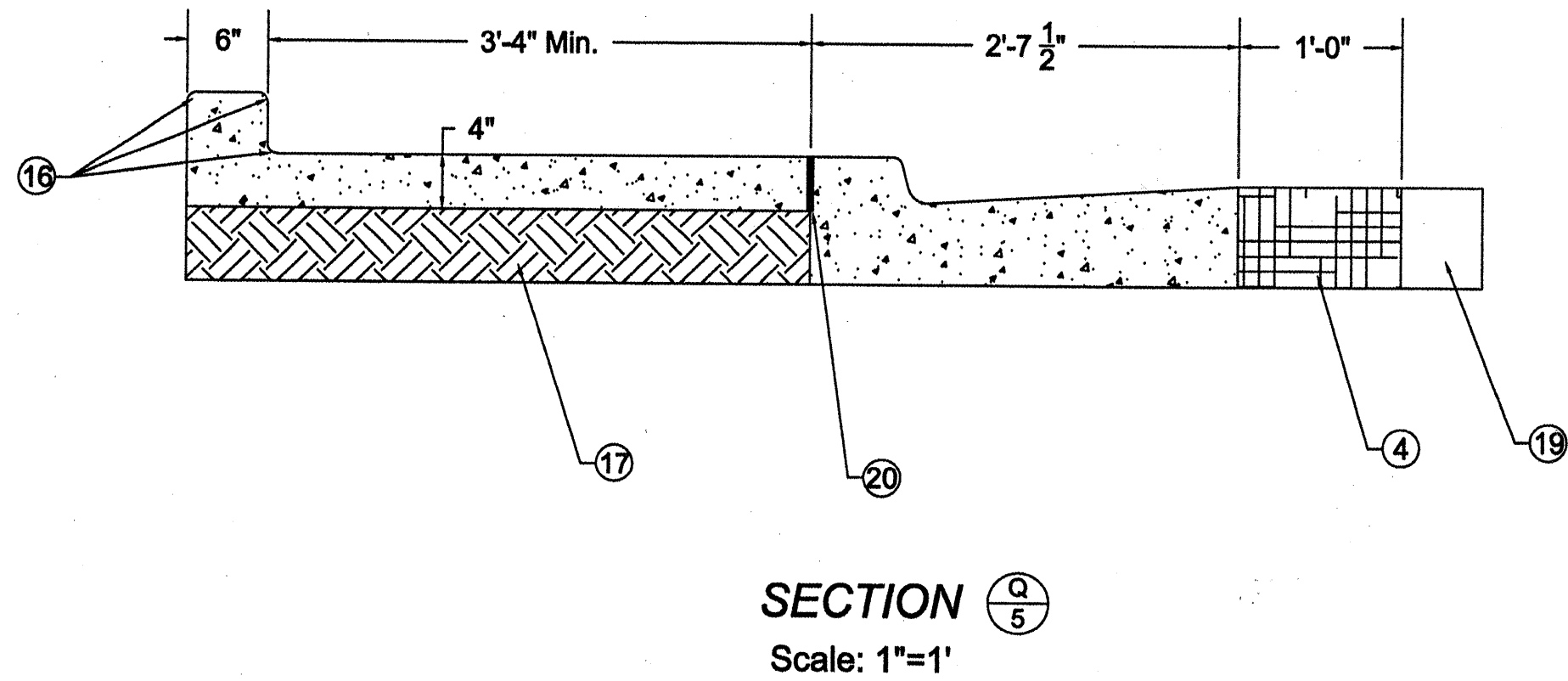
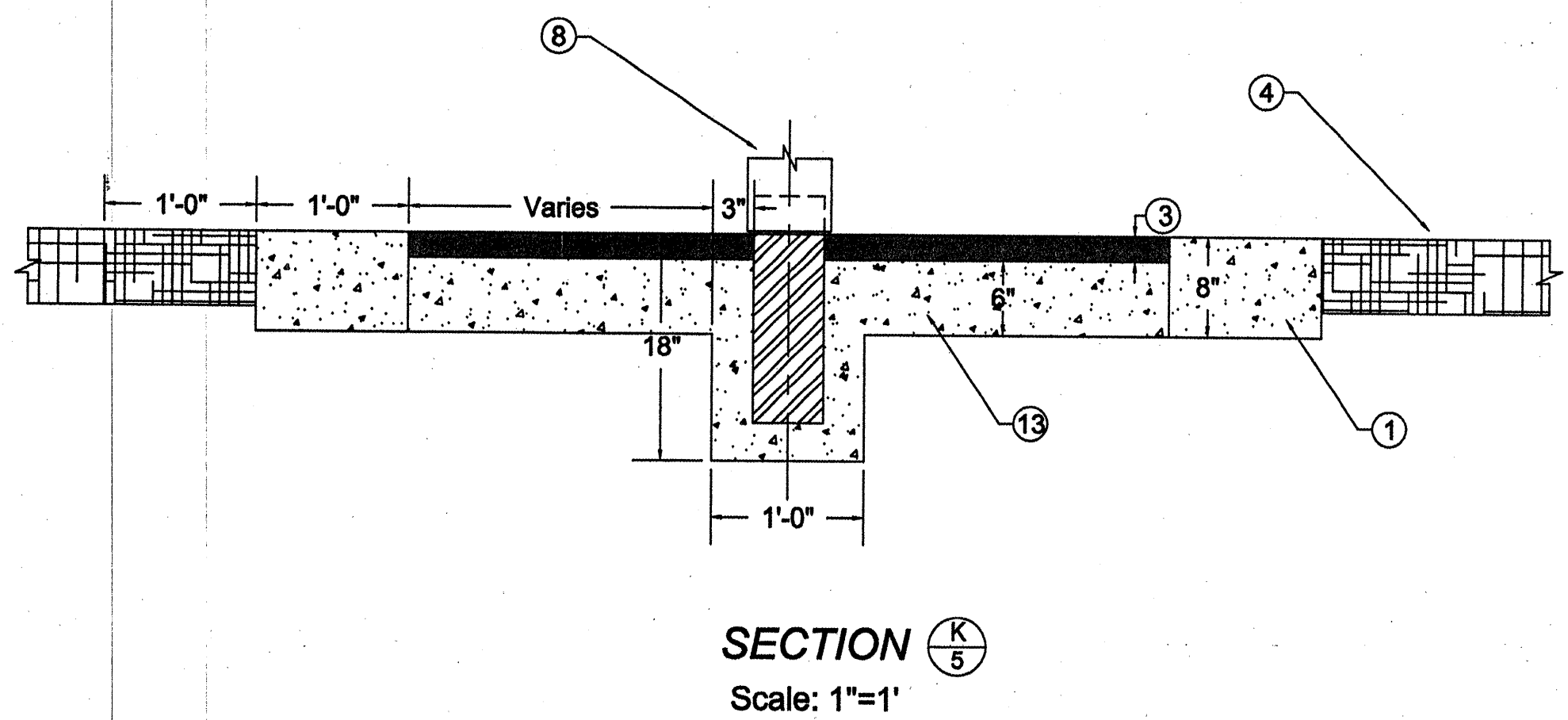
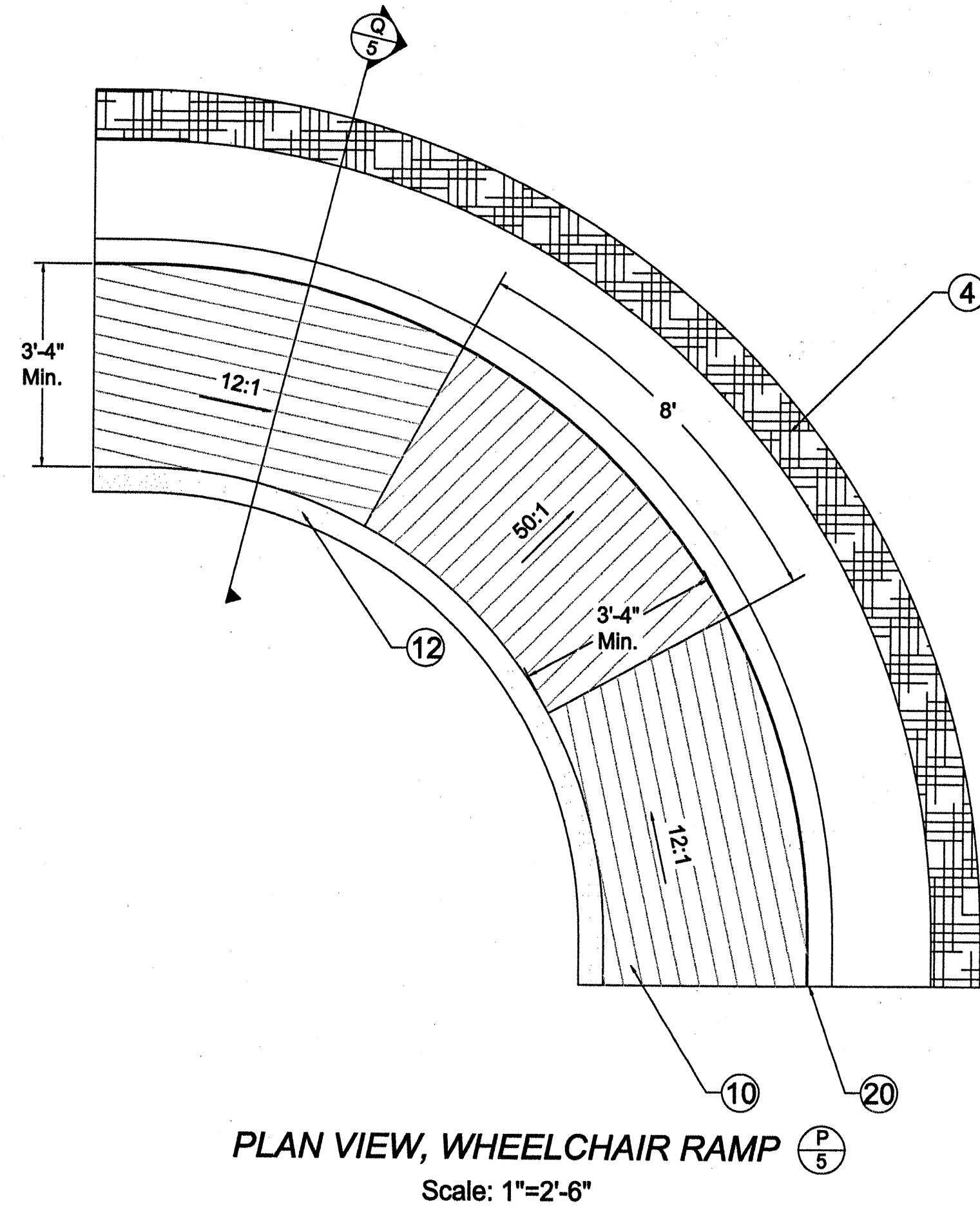
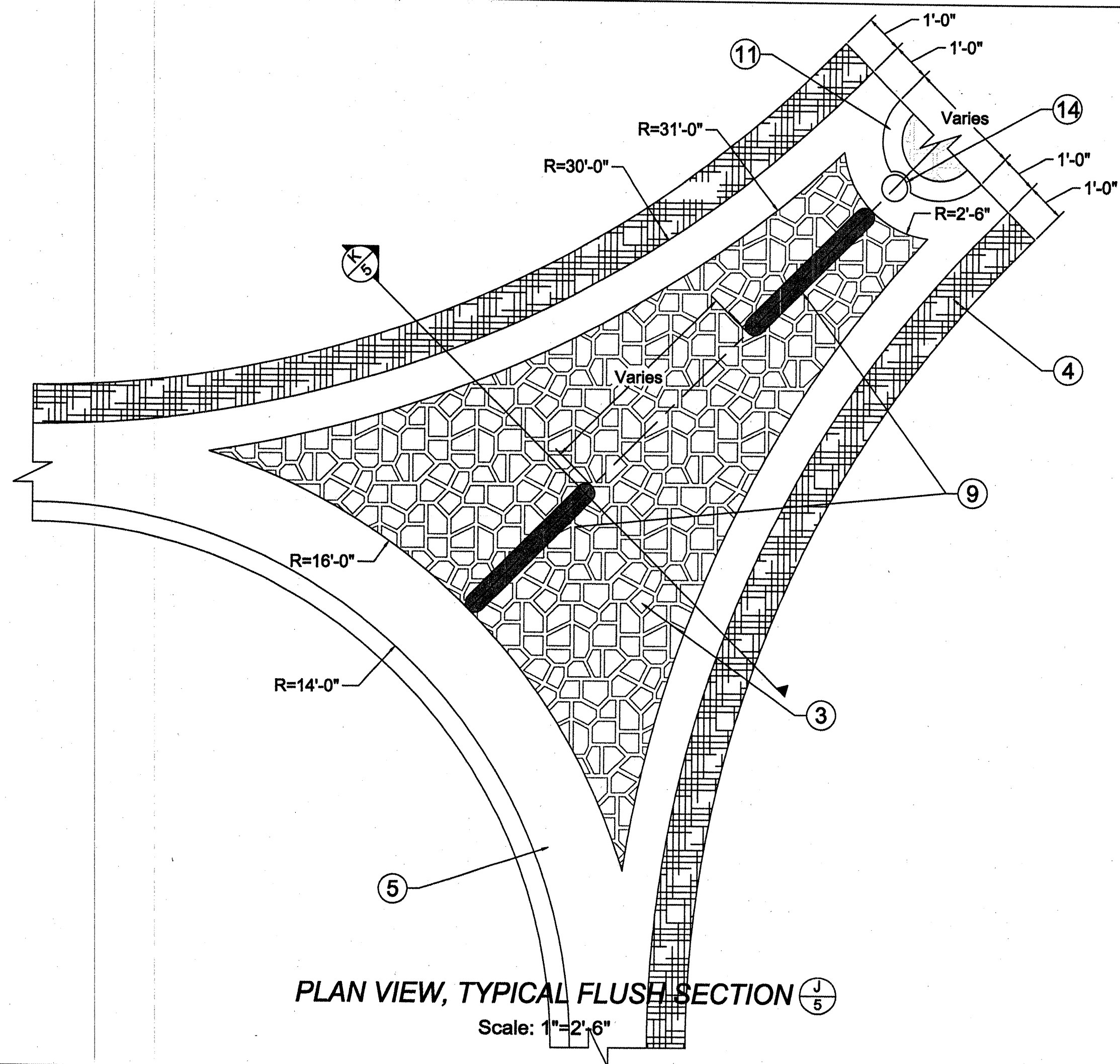
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|------------------------------------|--|-------------------------------|---------------------|--------------------|
| <b>DESIGN REVIEW COMMITTEE</b>     |  | <b>CITY ENGINEER APPROVAL</b> | <b>MO./DAY/YR.</b>  | <b>MO./DAY/YR.</b> |
| [Signature]                        |  | [Signature]                   |                     |                    |
| DESIGN<br>REVIEW COMMITTEE         |  | CITY ENGINEER                 |                     |                    |
| <b>City Project No.<br/>651091</b> |  | <b>Zone Map No.<br/>K-17</b>  | <b>Sheet 4 Of 8</b> |                    |

City Project No.  
651091

Zone Map No.  
K-17

Sheet 4 Of 8





**MOUNTABLE MEDIAN CURB (L 5)**

**CONSTRUCTION NOTES**  
A. N/A  
B. N/A  
C. N/A  
D. N/A  
E. THEORETICAL FACE OF CURB OR FLOWLINE.  
F. N/A  
G. 3/4" RADIUS  
H. 1-1/2" RADIUS  
J. 2" RADIUS

**STANDARD CURB & GUTTER (M 5)**

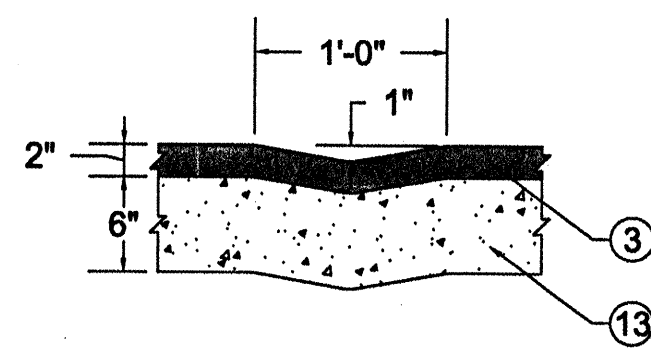
K. N/A  
L. N/A  
M. DIMENSIONS AT ROUNDED CORNERS MEASURED TO INTERSECTION OF STRAIGHT LINES.  
N. N/A  
P. N/A  
Q. ASPHALT CONCRETE PAVEMENT.  
R. N/A  
S. N/A

**MEDIAN CURB & GUTTER (N 5)**

**CURB AND GUTTER DETAILS**

From City Std. Dwg. 2415  
Not to Scale

**GENERAL NOTES**  
1. CURBS, GUTTERS, AND CUT-OFF WALL WILL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE.  
2. FOR STANDARD AND MEDIAN C & G ADJACENT TO ASPHALT CONCRETE PAVEMENT, PROVIDE CONTRACTION JTS. 12" MAX. SPACING, 1/2" EXP. JTS. AT CURB RETURNS AND AT A MAXIMUM SPACING OF 120' BETWEEN CURB RETURNS AND EACH SIDE OF SEPARATELY CONSTRUCTED DRIVEWAYS.  
3. FOR ALL OTHER C & G AND CUT-OFF WALL PROVIDE CONTRACTION JTS. AT 10' MAX. SPACING, 1/2" EXP. JTS. AT CURB RETURNS AND AT A MAXIMUM SPACING OF 100' BETWEEN CURB RETURNS AND EACH SIDE OF SEPARATELY CONSTRUCTED DRIVEWAYS.  
4. FOR C & G CONSTRUCTED WITH PORTLAND CEMENT CONCRETE PAVEMENT, CONTRACTION JTS. AND EXPANSION JTS. SHALL BE THE SAME AS THE PAVEMENTS JTS.  
5. ALL EDGES SHALL BE EDGED WITH A 3/8" RADIUS EDGING TOOL.  
6. STANDARD C & G SHALL BE USED FOR NEW CONSTRUCTION UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.  
7. REMOVE AND REPLACE 1' WIDE STRIP OF PAVEMENT ADJACENT TO LIP OF GUTTER WHEN CONSTRUCTING C & G ADJACENT TO EXISTING ASPHALT CONCRETE PAVEMENT.  
8. 1/4" EXPANSION JOINT SHALL BE PLACED BETWEEN SIDEWALK AND C & G WHEN CAST ADJACENT TO EACH OTHER.



**Keyed Notes**

- ① - 8" Thick PCC Gutter
- ② - Header Curb, 6" Above Surface of Sidewalk
- ③ - 2" Thick Bomanite Lift, Colored 'Sunset Gray', Patterned 'Fishscale Cobblestone'
- ④ - Remove and Replace existing Asphalt Concrete Pavement (Residential Type)
- ⑤ - Existing Gutter
- ⑥ - Not Used
- ⑦ - Not Used
- ⑧ - Telescopic Bollard (S 6) or Standard Bollard (U 6) as per Detail Sheet #3 and Intersection Plans
- ⑨ - Telescopic Bollard (S 6) or Standard Bollard (U 6) as per Intersection Plans
- ⑩ - Slopes to have coarse-brushed pattern running parallel to slope
- ⑪ - Narrow Median (A 4) or Wide Median (B 4) as per Intersection Plans
- ⑫ - Paint Curb Traffic Yellow with Reflective Glass Beads
- ⑬ - 6" Thick PCC Pavement
- ⑭ - Gate Post Mounting Stub (D 4)
- ⑮ - Not Used
- ⑯ - 3/4" Radius
- ⑰ - Compacted Subgrade, 95% Compaction
- ⑱ - Not Used
- ⑲ - Existing Asphalt Pavement
- ⑳ - 1/2" Expansion Joint

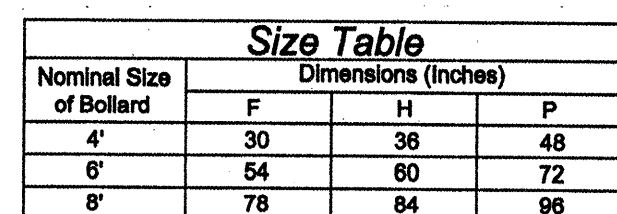
**EXPLANATION OF DETAIL NOTATION**

DETAIL "U"  
LOCATED ON SHEET 6

|  |                        |              |             |
|--|------------------------|--------------|-------------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>TRAFFIC ENGINEERING OPERATIONS   |                        |              |             |
| TITLE: PERMANENT DIVERTER INSTALLATION<br>NOB HILL NEIGHBORHOOD<br>DETAIL SHEET #2 |                        |              |             |
| DESIGN REVIEW COMMITTEE  | CITY ENGINEER APPROVAL | MO./DAY/YR.  | MO./DAY/YR. |
| City Project No. 651091  | Zone Map No. K-17      | Sheet 5 of 8 |             |

| AS BUILT INFORMATION |               | BENCH MARKS   |                 | SURVEY INFORMATION |      | ENGINEER'S SEAL |      |
|----------------------|---------------|---|-----------------|--------------------|------|-----------------|------|
| CONTRACTOR           | WORK          | BM 5-K17A   | DATE            | NO.                | BY   | REMARKS         | BY   |
| DATE                 | DATE          | DATE  | DATE            | DATE               | DATE | DATE            | DATE |
| ACCEPTANCE BY        | ACCEPTANCE BY | LOCATED AT 4010 CENTRAL AVE. S.E. ON THE SOUTH SIDE OF CENTRAL AVE. | VERIFICATION BY | NO.                | BY   | DESIGNED BY     | DATE |
| DATE                 | DATE          | ELEVATION 5219.539  | DATE            | NO.                | BY   | DRAWN BY        | DATE |
| DATE                 | DATE          |   | DATE            | NO.                | BY   | CHECKED BY      | DATE |
| DATE                 | DATE          |   | DATE            | NO.                | BY   |                 | DATE |

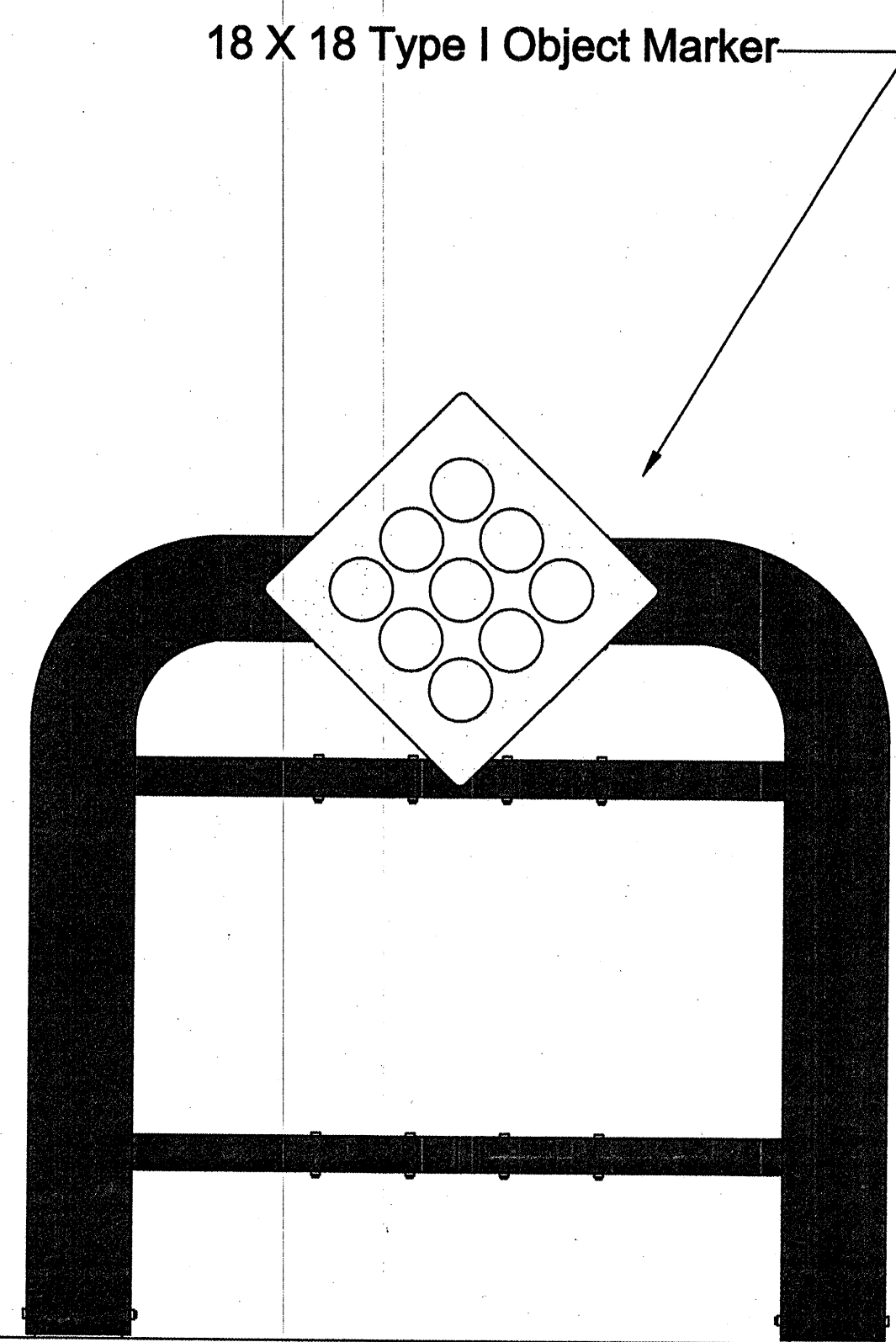




Scale: 1"=1'

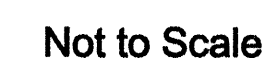


Scale: 1"=1'



18 X 18 Type I Object Marker

**Not to Scale**



LOCATED ON SHEET 6

| MO./DAY/YR. | MO./DAY/YR. |
|-------------|-------------|
|             |             |
|             |             |
|             |             |
|             |             |
|             |             |

Sheet 6 Of 8







## 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 WORKSITE 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. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.

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 TRAVELLED 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. 48 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.

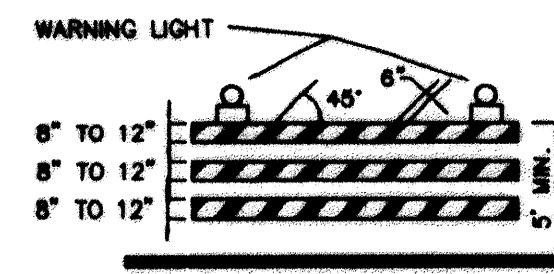
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.

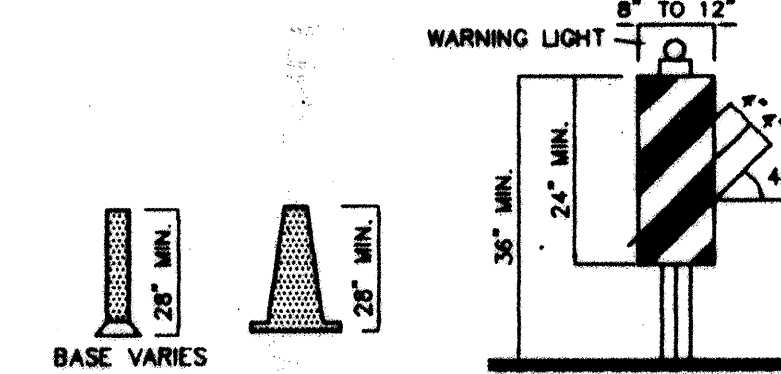
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.



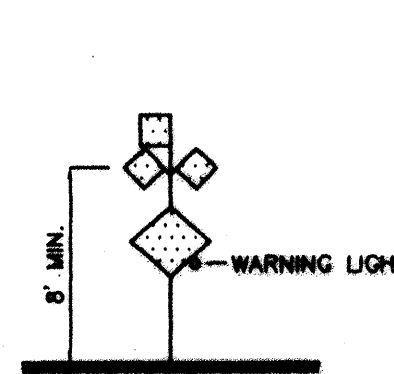
TYPE II BARRICADE



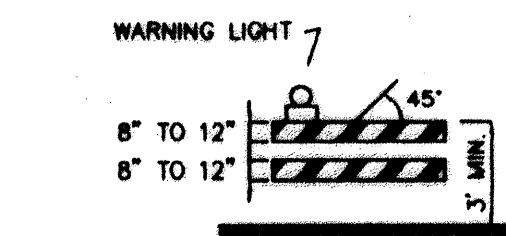
VERTICAL PANEL



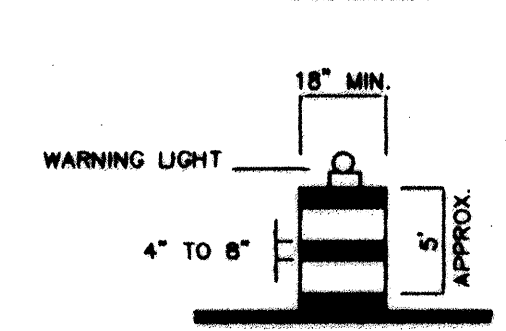
CONES



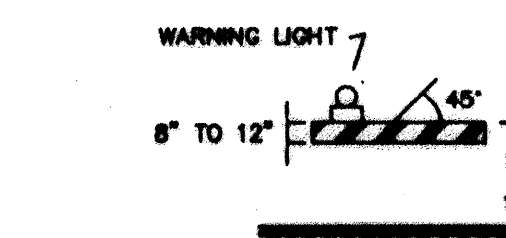
HIGH LEVEL WARNING DEVICE



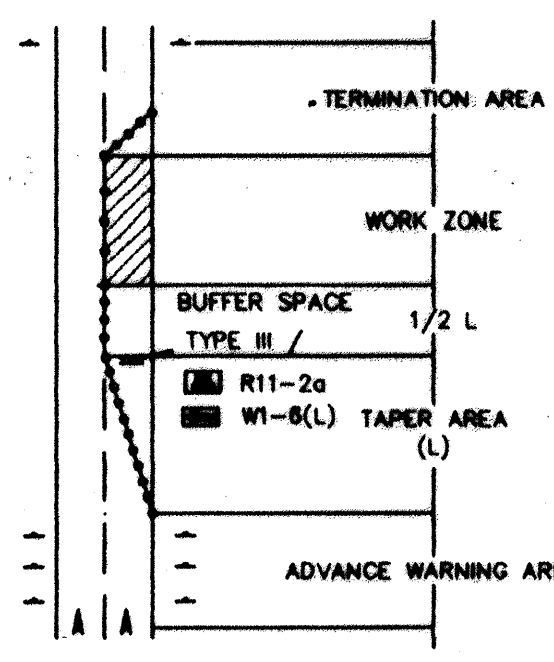
TYPE II BARRICADE COLLAPSIBLE



BARREL



TYPE I BARRICADE COLLAPSIBLE



TRAFFIC CONTROL ELEMENTS

## 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 SPEED LIMIT OF THE STREET
- TAPER LENGTH - SEE CHART BELOW
- THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

## TAPER REQUIREMENTS

| 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 MILES PER HOUR | MINIMUM DISTANCE IN FEET BETWEEN SIGNS | 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

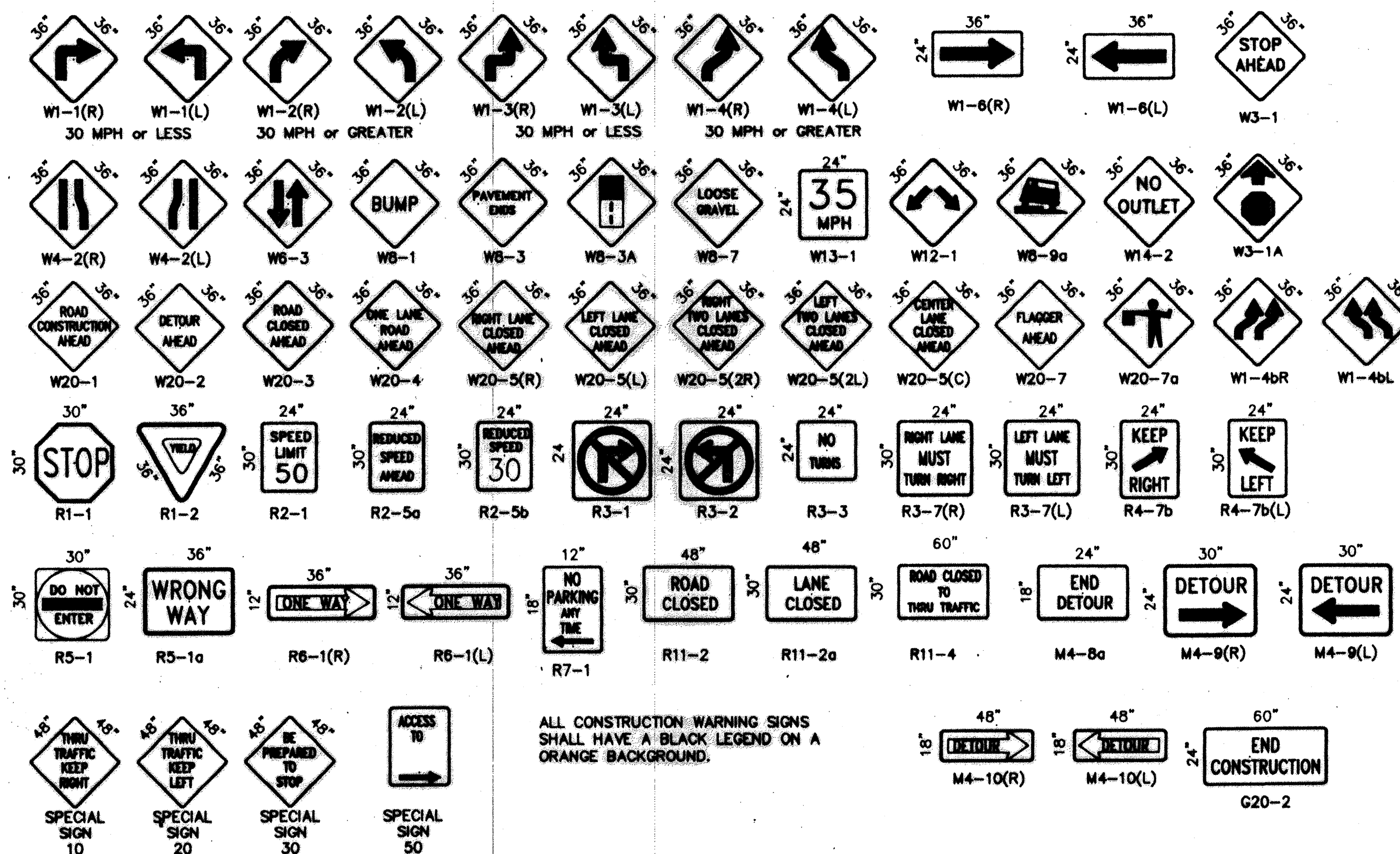
| TYPE OF TAPER         | TAPER LENGTH      |
|-----------------------|-------------------|
| UPSTREAM TAPER:       |                   |
| MERGING TAPER         | L MINIMUM         |
| SHIFTER TAPER         | 1/2 L MINIMUM     |
| SHOULDER TAPER        | 1/2 L MINIMUM     |
| TWO-WAY TRAFFIC TAPER |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

## TAPER LENGTH COMPUTATION

| SPEED LIMIT       | L =                   |
|-------------------|-----------------------|
| 40 MPH OR LESS    | $L = \frac{WS^2}{60}$ |
| 45 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

## SIGN FACE DETAILS



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

|                         |      |                        |      |                    |      |                 |        |   |        |
|-------------------------|------|------------------------|------|--------------------|------|-----------------|--------|---|--------|
| AS BUILT INFORMATION    |      | BENCH MARKS            |      | SURVEY INFORMATION |      | ENGINEER'S SEAL |        | CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING DEVELOPMENT GROUP |        |
| CONTRACTOR              | DATE | CONTRACTOR             | DATE | NO.                | BY   | U.D.L.          | U.D.L. | U.D.L.  | U.D.L. |
| REVISIONS               | DATE | REVISIONS              | DATE | REVISIONS          | DATE | REVISIONS       | DATE   | REVISIONS   | DATE   |
| DESIGNED BY             | DATE | DESIGNED BY            | DATE | DESIGNED BY        | DATE | DESIGNED BY     | DATE   | DESIGNED BY   | DATE   |
| DRAWN BY                | DATE | DRAWN BY               | DATE | DRAWN BY           | DATE | DRAWN BY        | DATE   | DRAWN BY  | DATE   |
| CHECKED BY              | DATE | CHECKED BY             | DATE | CHECKED BY         | DATE | CHECKED BY      | DATE   | CHECKED BY  | DATE   |
| PROJECT NO. 6510.91     |      | MAP NO.                |      | SHEET 8 OF 8       |      | LAST UPDATE     |        | SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS                              |        |
| DESIGN REVIEW COMMITTEE |      | CITY ENGINEER APPROVAL |      | NO. 7047/1R        |      | NO. 7047/1R     |        |   |        |
| DESIGNED BY             |      | CITY ENGINEER APPROVAL |      | NO. 7047/1R        |      | NO. 7047/1R     |        |   |        |